

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN070919\
 Data File : BN006769.D
 Acq On : 09 Jul 2019 16:32
 Operator : HP/JU
 Sample : K2241-03
 Misc : MDL-S-0.1PPM
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Quant Time: Jul 10 04:18:27 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN070919.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jul 09 13:11:11 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	3233	0.40	ng	0.00
7) Naphthalene-d8	10.38	136	11679	0.40	ng	0.01
13) Acenaphthene-d10	14.24	164	6976	0.40	ng	0.00
19) Phenanthrene-d10	17.01	188	16190	0.40	ng	0.01
27) Chrysene-d12	21.25	240	16032	0.40	ng	0.01
34) Perylene-d12	23.49	264	18470	0.40	ng	0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.24	112	2720	0.38	ng	0.00
5) Phenol-d6	6.83	99	3253	0.33	ng	0.02
8) Nitrobenzene-d5	8.82	82	2555	0.32	ng	0.04
11) 2-Methylnaphthalene-d10	11.99	152	6674	0.38	ng	0.00
14) 2,4,6-Tribromophenol	15.78	330	1073	0.33	ng	0.01
15) 2-Fluorobiphenyl	12.87	172	9954	0.38	ng	0.01
25) Fluoranthene-d10	19.06	212	19007	0.39	ng	0.00
29) Terphenyl-d14	19.66	244	15043	0.43	ng	0.00

Target Compounds

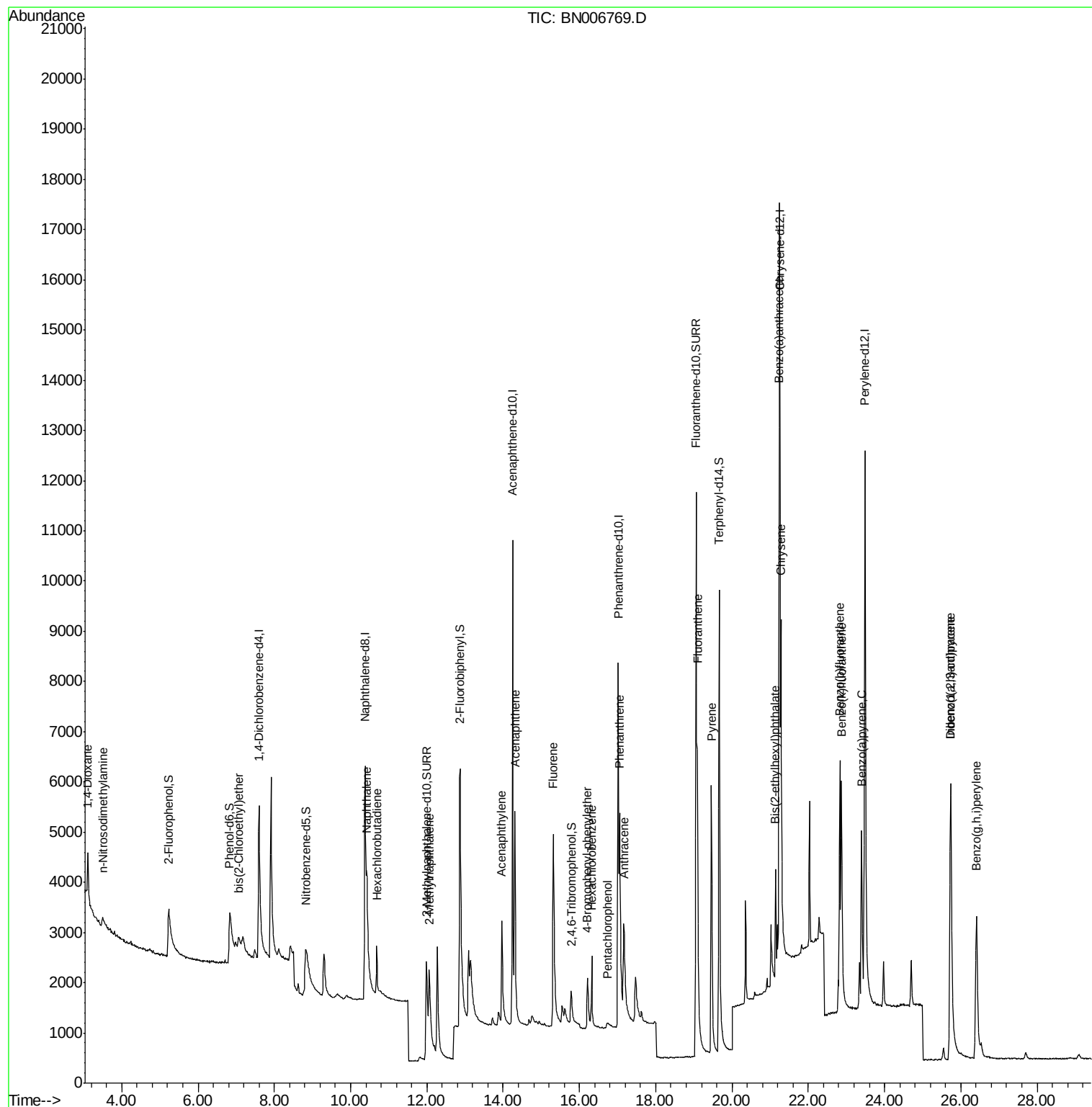
						Qvalue
2) 1,4-Dioxane	3.12	88	751	0.141	ng	96
3) n-Nitrosodimethylamine	3.50	42	294	0.264	ng	98
6) bis(2-Chloroethyl)ether	7.07	93	887	0.081	ng	# 93
9) Naphthalene	10.43	128	3959	0.127	ng	# 93
10) Hexachlorobutadiene	10.68	225	865	0.128	ng	# 99
12) 2-Methylnaphthalene	12.06	142	2485	0.124	ng	96
16) Acenaphthylene	13.96	152	3918	0.119	ng	99
17) Acenaphthene	14.31	154	2723	0.123	ng	99
18) Fluorene	15.31	166	3171	0.116	ng	99
20) 4-Bromophenyl-phenylether	16.21	248	989	0.108	ng	# 92
21) Hexachlorobenzene	16.32	284	1436	0.120	ng	98
22) Pentachlorophenol	16.74	266	227	0.307	ng	89
23) Phenanthrene	17.06	178	5407	0.120	ng	99
24) Anthracene	17.16	178	4016	0.103	ng	99
26) Fluoranthene	19.09	202	7132	0.127	ng	99
28) Pyrene	19.46	202	7300	0.131	ng	99
30) Benzo(a)anthracene	21.24	228	6019	0.122	ng	97
31) Chrysene	21.29	228	6763	0.122	ng	98
32) Bis(2-ethylhexyl)phthalate	21.14	149	2294	0.100	ng	97
33) Indeno(1,2,3-cd)pyrene	25.73	276	8520	0.126	ng	100
35) Benzo(b)fluoranthene	22.83	252	6904	0.119	ng	# 92
36) Benzo(k)fluoranthene	22.87	252	8485	0.130	ng	# 90
37) Benzo(a)pyrene	23.40	252	7092	0.126	ng	# 87
38) Dibenzo(a,h)anthracene	25.74	278	6855	0.121	ng	# 91
39) Benzo(g,h,i)perylene	26.41	276	7719	0.130	ng	95

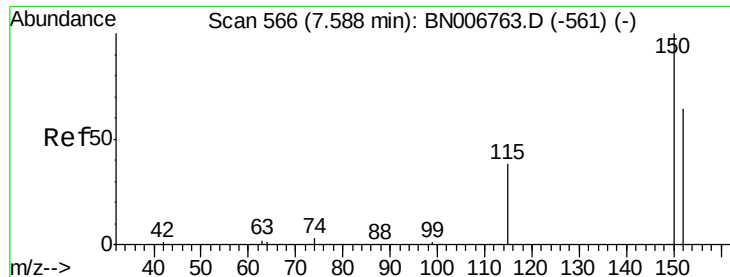
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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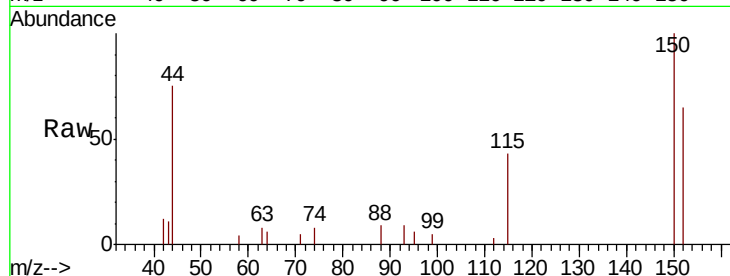


#1

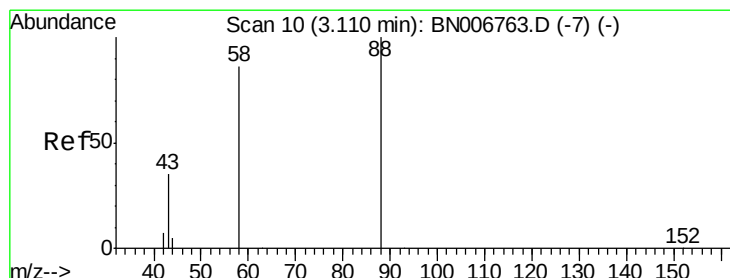
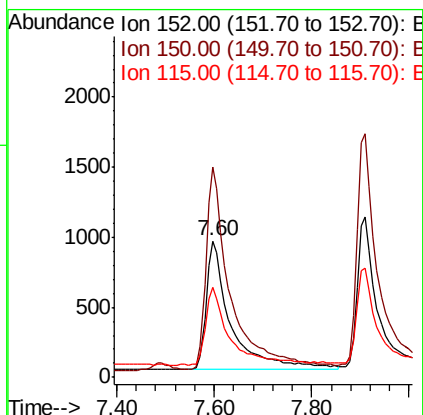
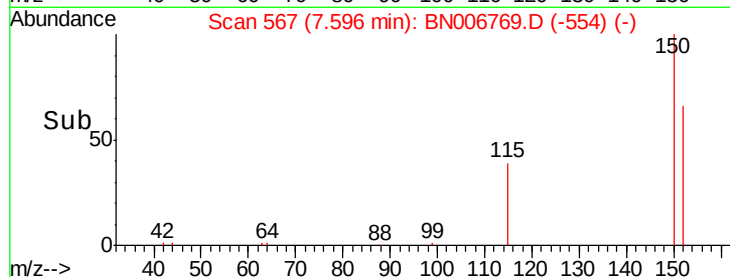
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.60 min Scan# 567
Delta R.T. 0.01 min
Lab File: BN006769.D
Acq: 09 Jul 2019 16:32

Instrument :
BNA_N
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 152 Resp: 3233
Ion Ratio Lower Upper
152 100
150 154.1 123.6 185.4
115 65.7 52.5 78.7



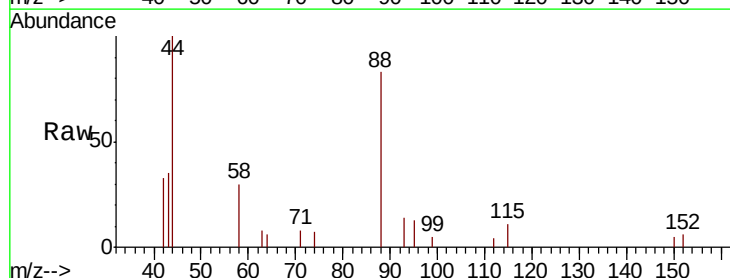
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



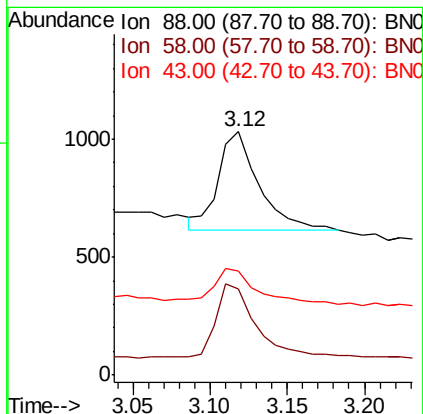
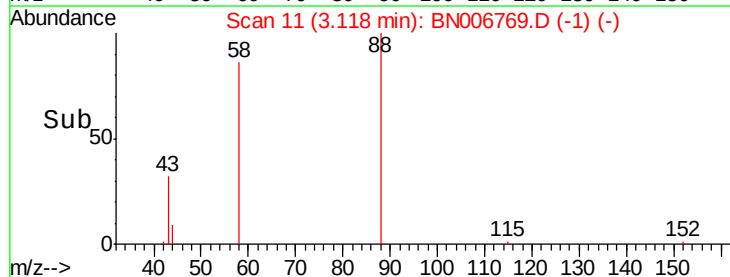
#2

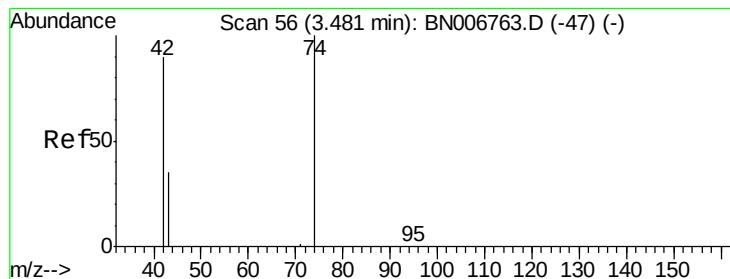
1,4-Dioxane
Concen: 0.141 ng
RT: 3.12 min Scan# 11
Delta R.T. 0.01 min
Lab File: BN006769.D
Acq: 09 Jul 2019 16:32

Tgt Ion: 88 Resp: 751
Ion Ratio Lower Upper
88 100
58 78.6 61.8 92.6
43 40.6 27.9 41.9



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: 0.264 ng

RT: 3.50 min Scan# 59

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

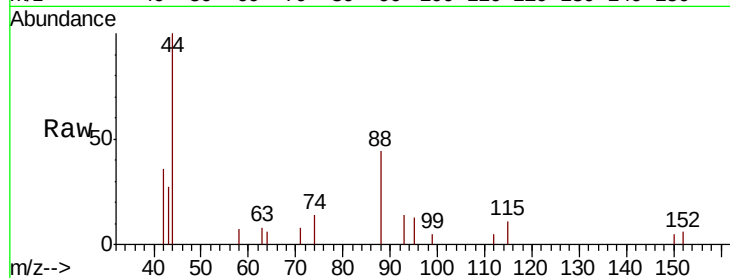
Tgt Ion: 42 Resp: 294

Ion Ratio Lower Upper

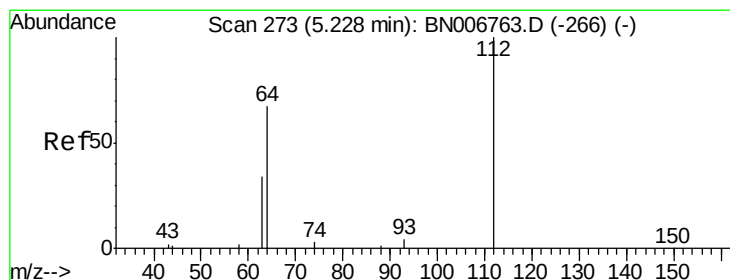
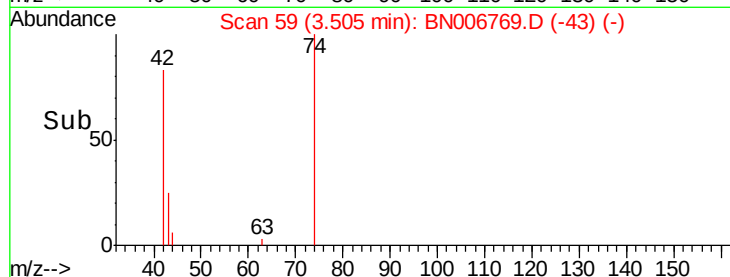
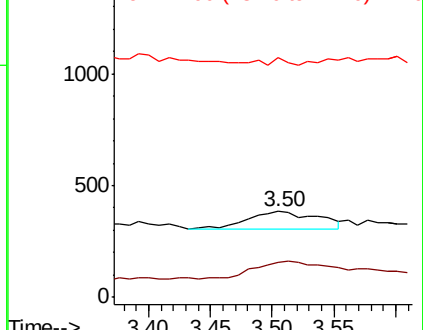
42 100

74 106.5 86.2 129.4

44 7.1 7.0 10.6



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: 0.379 ng

RT: 5.24 min Scan# 274

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

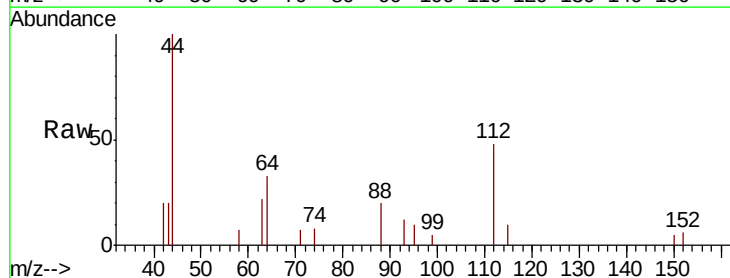
Tgt Ion: 112 Resp: 2720

Ion Ratio Lower Upper

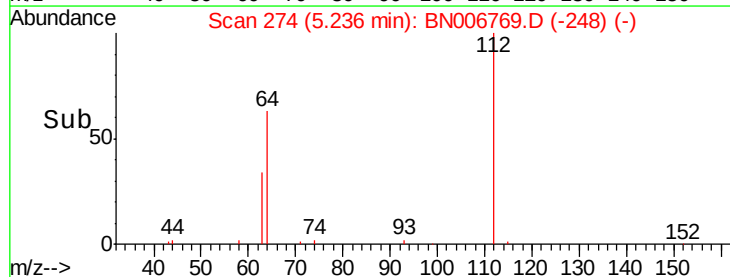
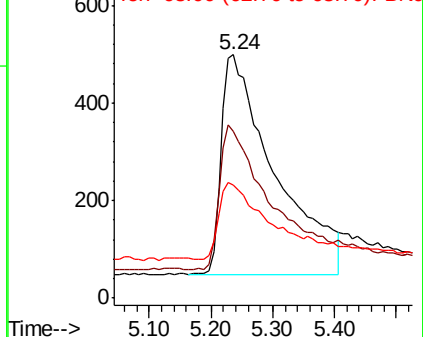
112 100

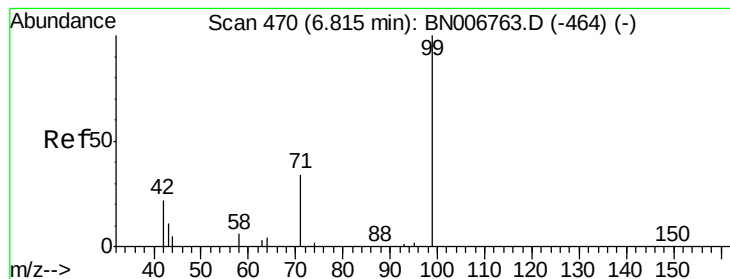
64 64.1 52.7 79.1

63 35.5 27.7 41.5



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





#5

Phenol-d6

Concen: 0.329 ng

RT: 6.83 min Scan# 472

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

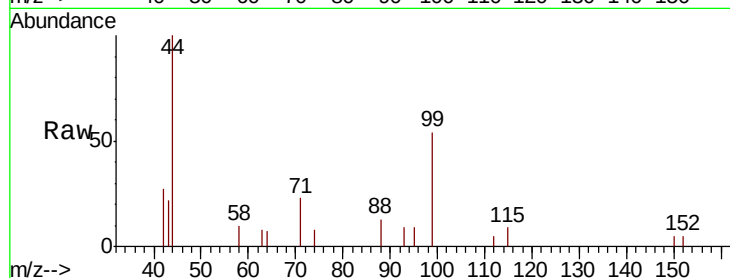
Tgt Ion: 99 Resp: 3253

Ion Ratio Lower Upper

99 100

42 23.1 17.0 25.6

71 35.2 29.1 43.7



Abundance Ion 99.00 (98.70 to 99.70): BN006769.D (-458) (-)

Ion 42.00 (41.70 to 42.70): BN006769.D (-458) (-)

Ion 71.00 (70.70 to 71.70): BN006769.D (-458) (-)

6.83

600

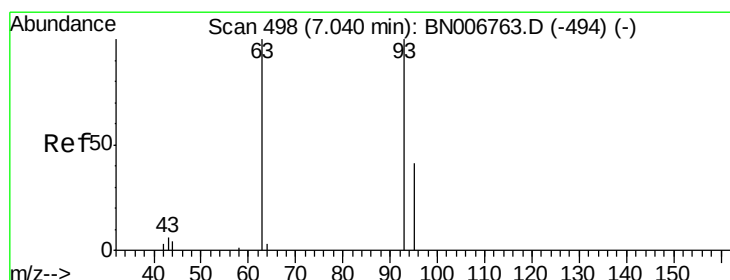
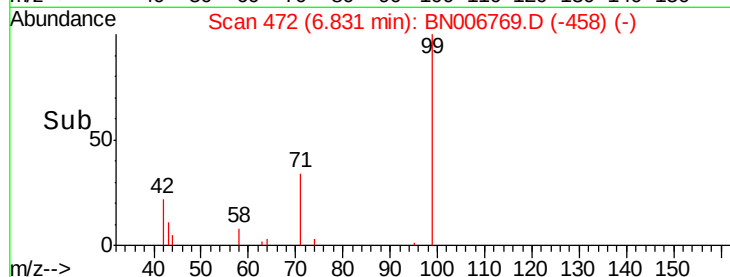
400

200

0

6.70 6.80 6.90 7.00

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.081 ng

RT: 7.07 min Scan# 502

Delta R.T. 0.03 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

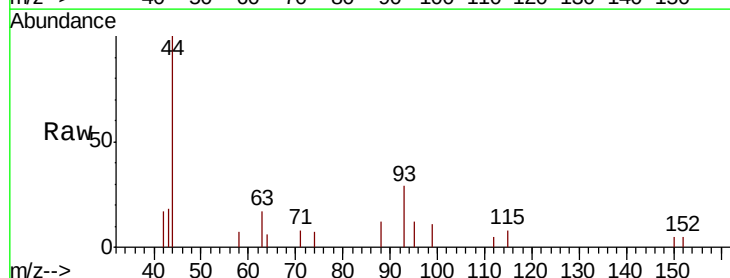
Tgt Ion: 93 Resp: 887

Ion Ratio Lower Upper

93 100

63 58.1 48.6 73.0

95 20.5 22.9 34.3#



Abundance Ion 93.00 (92.70 to 93.70): BN006769.D (-473) (-)

Ion 63.00 (62.70 to 63.70): BN006769.D (-473) (-)

Ion 95.00 (94.70 to 95.70): BN006769.D (-473) (-)

7.07

400

300

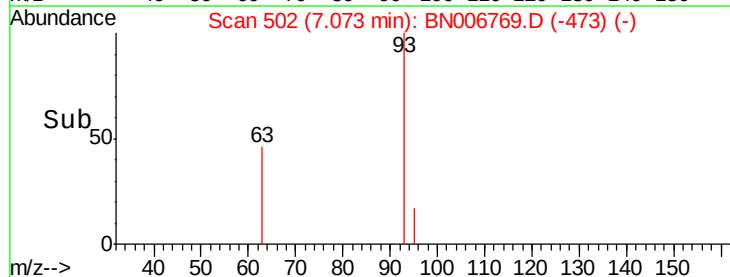
200

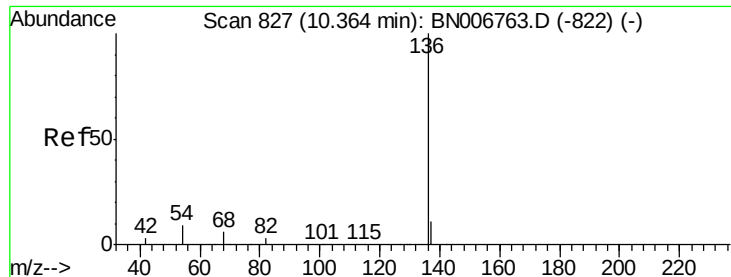
100

0

7.00 7.10 7.20

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.38 min Scan# 828

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

Tgt Ion:136 Resp: 11679

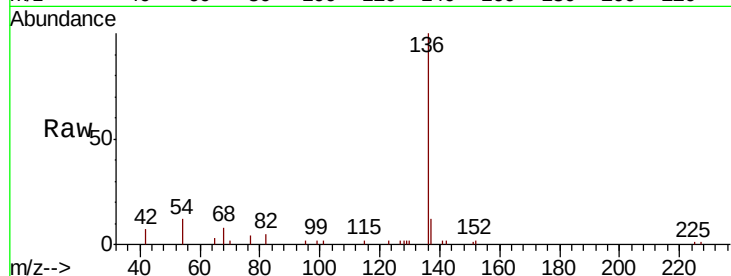
Ion Ratio Lower Upper

136 100

137 12.1 9.5 14.3

54 11.6 8.4 12.6

68 8.4 6.4 9.6

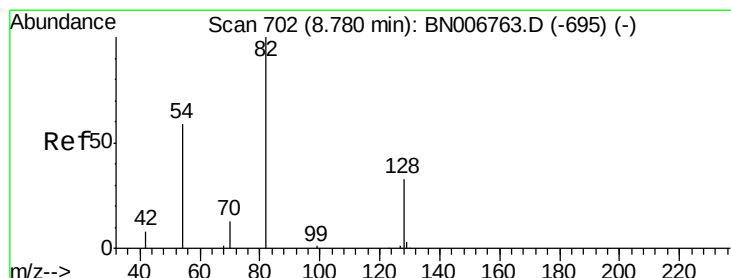
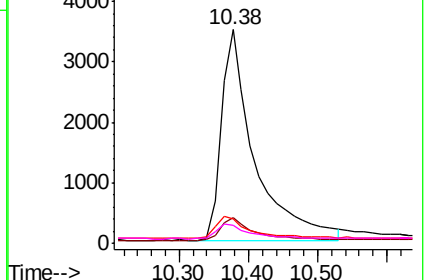
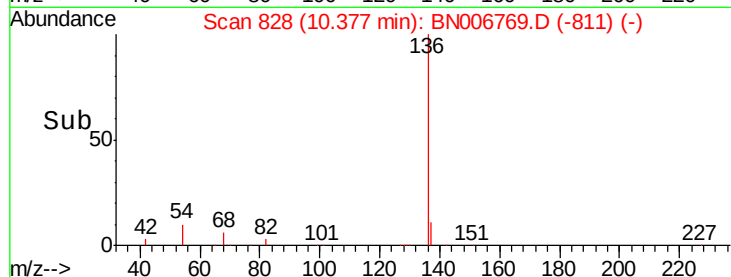


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.321 ng

RT: 8.82 min Scan# 705

Delta R.T. 0.04 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

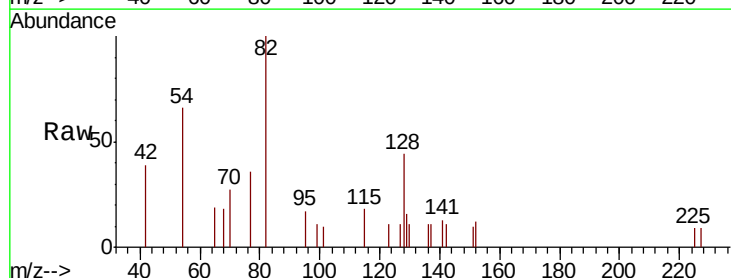
Tgt Ion: 82 Resp: 2555

Ion Ratio Lower Upper

82 100

128 44.3 33.0 49.6

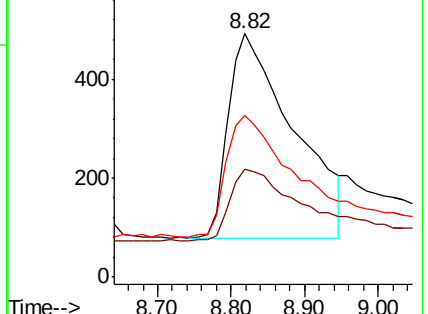
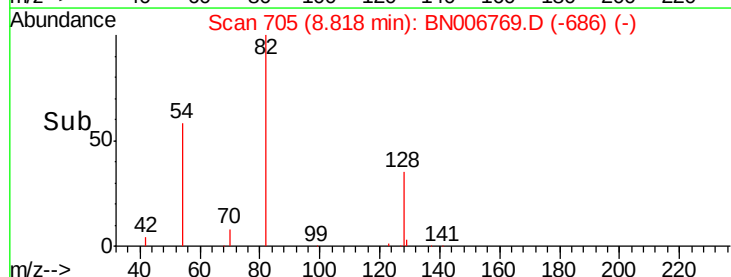
54 66.3 52.2 78.2

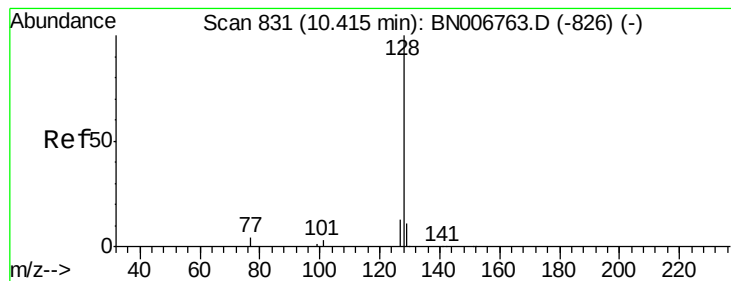


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.127 ng

RT: 10.43 min Scan# 832

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

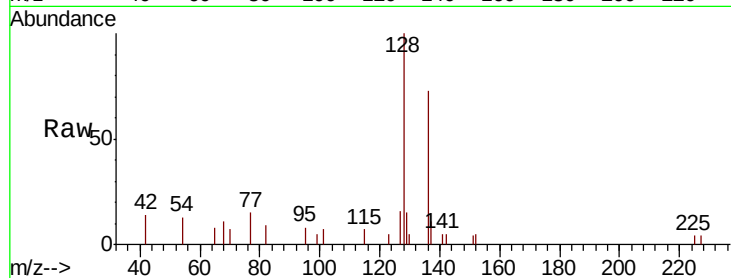
Tgt Ion:128 Resp: 3959

Ion Ratio Lower Upper

128 100

129 15.0 9.6 14.4#

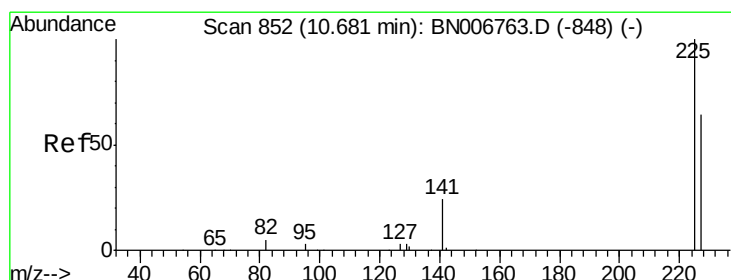
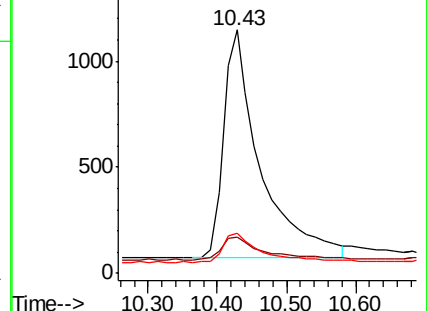
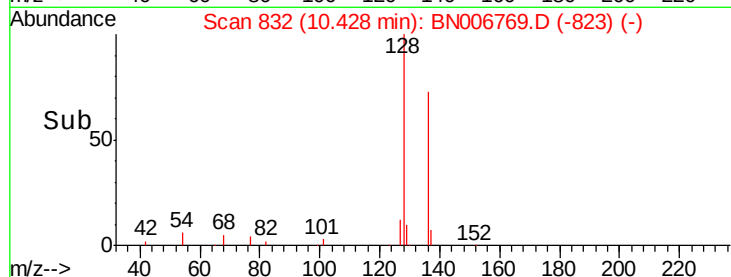
127 16.4 11.0 16.4



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: 0.128 ng

RT: 10.68 min Scan# 852

Delta R.T. 0.00 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

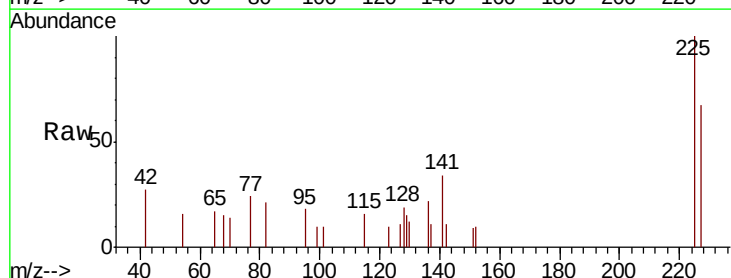
Tgt Ion:225 Resp: 865

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

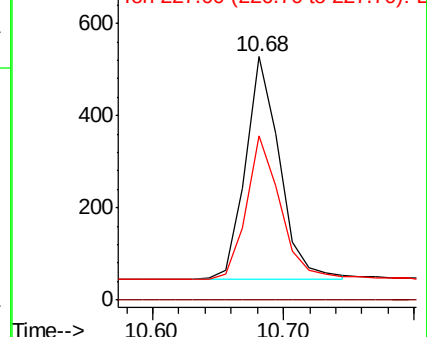
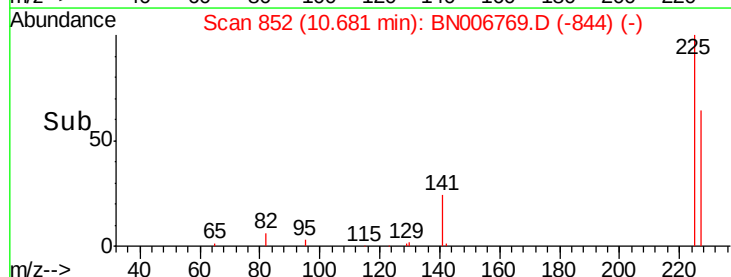
227 64.5 50.8 76.2

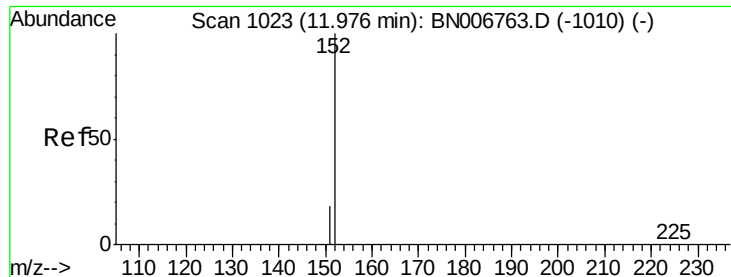


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

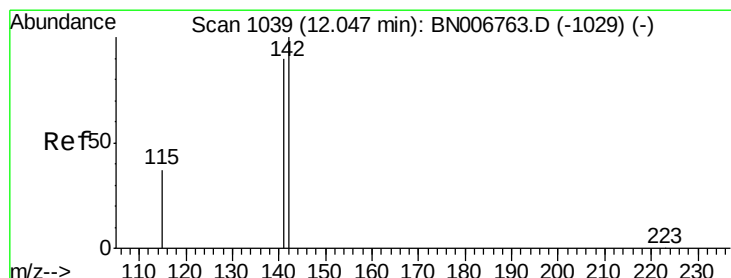
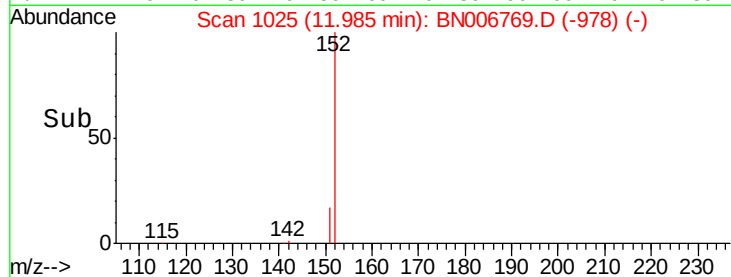
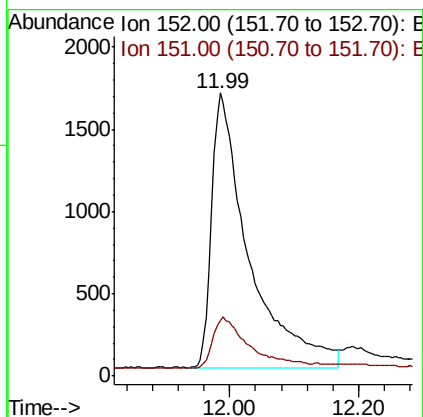
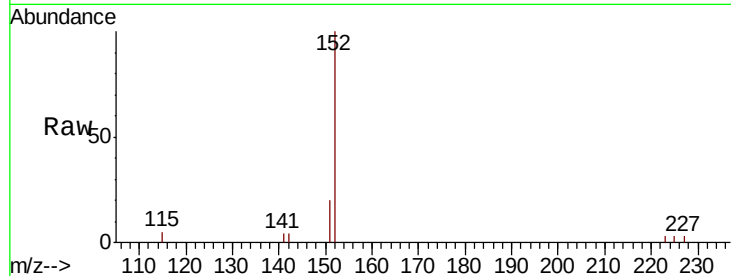




#11
 2-Methylnaphthalene-d10
 Concen: 0.382 ng
 RT: 11.99 min Scan# 1025
 Delta R.T. 0.01 min
 Lab File: BN006769.D
 Acq: 09 Jul 2019 16:32

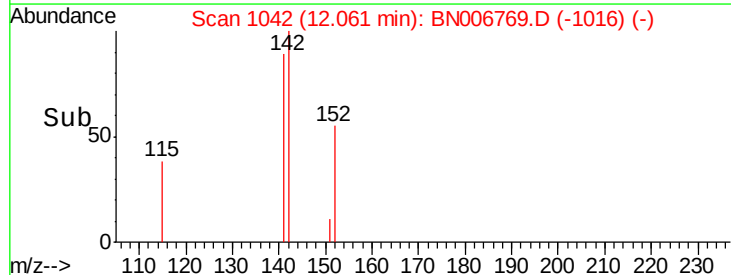
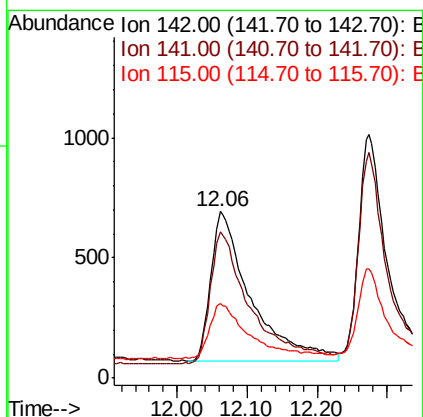
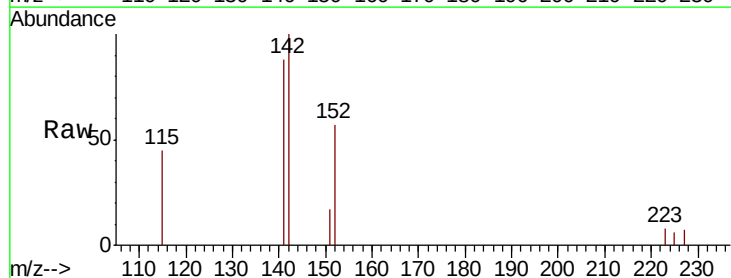
Instrument :
 BNA_N
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

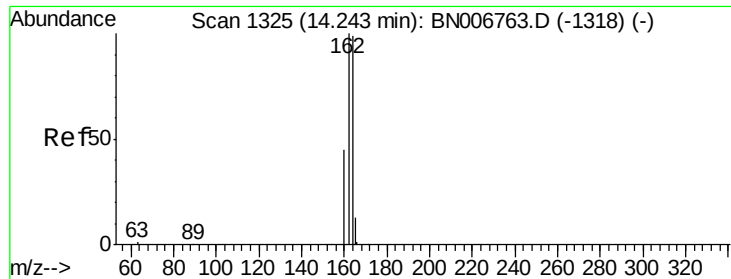
Tgt Ion:152 Resp: 6674
 Ion Ratio Lower Upper
 152 100
 151 18.4 15.1 22.7



#12
 2-Methylnaphthalene
 Concen: 0.124 ng
 RT: 12.06 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: BN006769.D
 Acq: 09 Jul 2019 16:32

Tgt Ion:142 Resp: 2485
 Ion Ratio Lower Upper
 142 100
 141 87.6 71.7 107.5
 115 44.8 31.2 46.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.24 min Scan# 1325

Delta R.T. 0.00 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

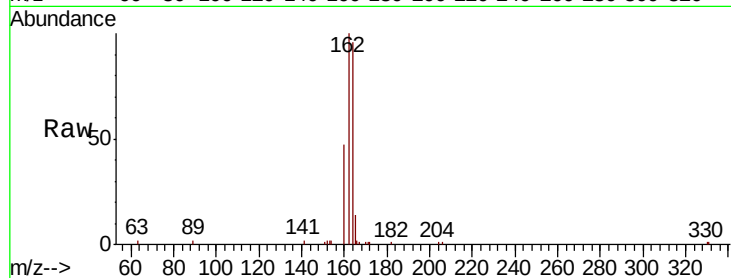
Tgt Ion:164 Resp: 6976

Ion Ratio Lower Upper

164 100

162 103.9 81.0 121.4

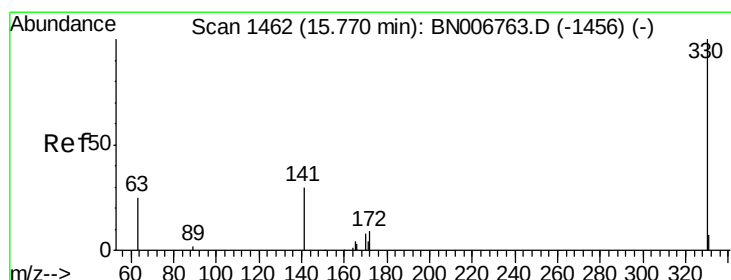
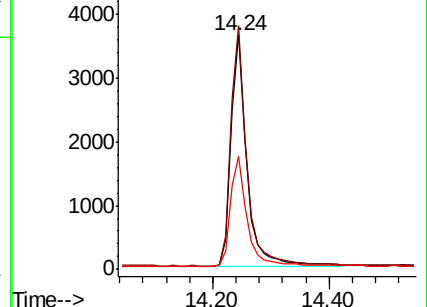
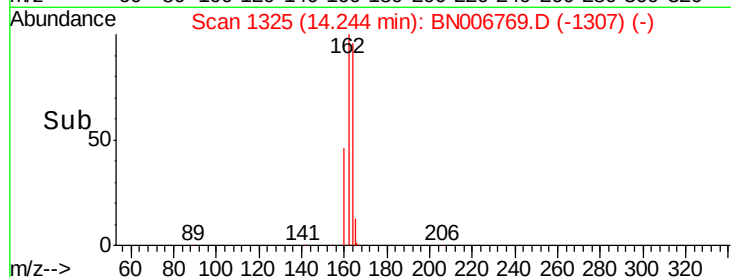
160 48.4 37.4 56.0



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: 0.330 ng

RT: 15.78 min Scan# 1463

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

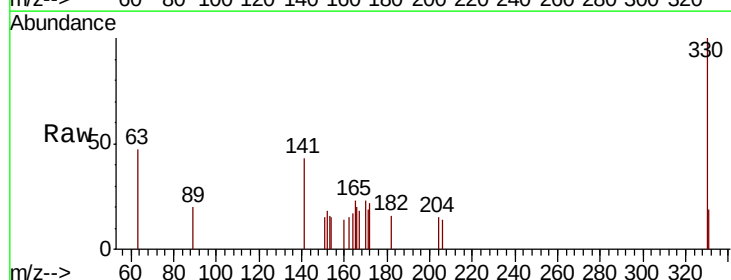
Tgt Ion:330 Resp: 1073

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

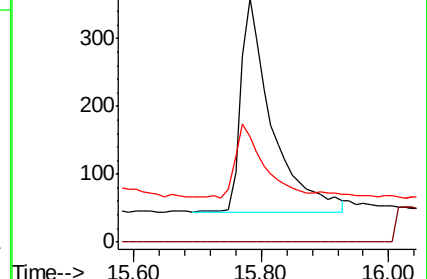
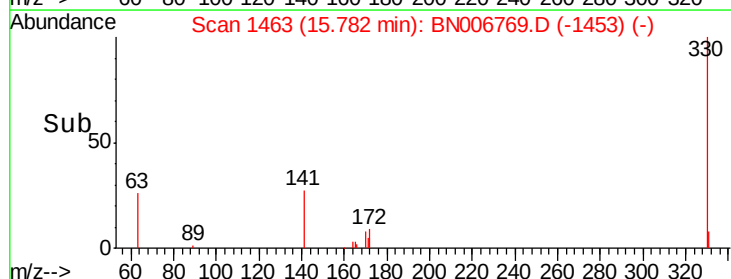
141 30.2 26.6 39.8

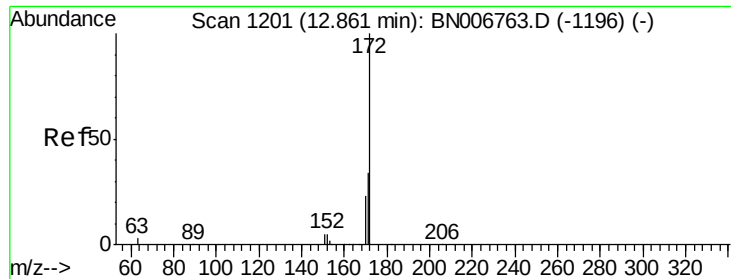


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

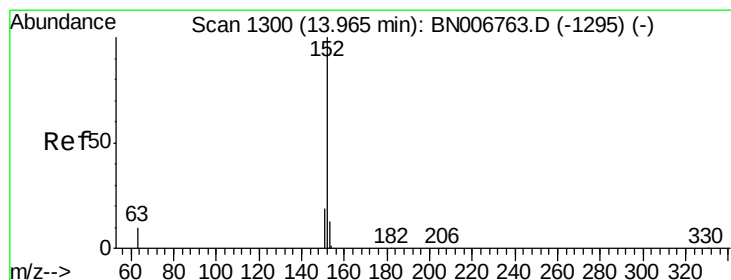
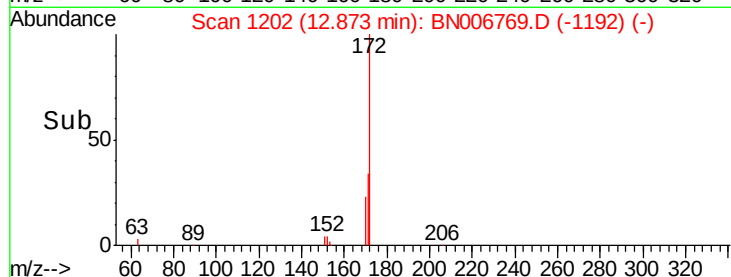
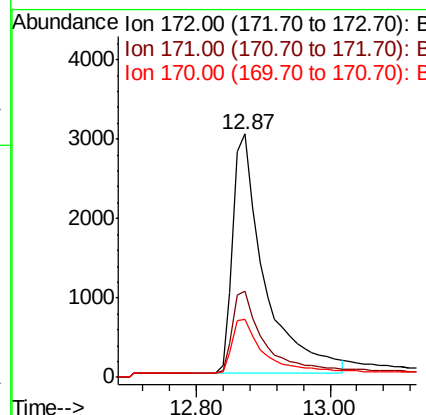
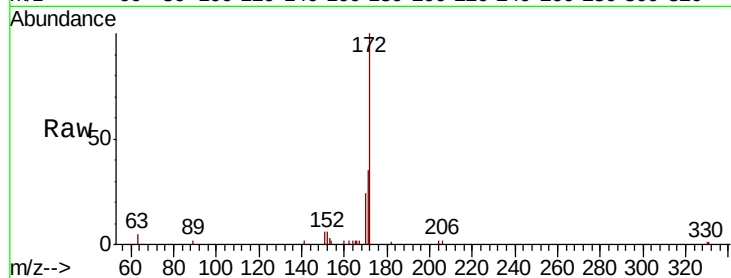




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.87 min Scan# 1202
Delta R.T. 0.01 min
Lab File: BN006769.D
Acq: 09 Jul 2019 16:32

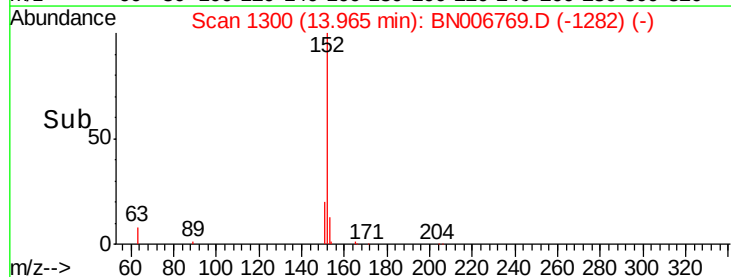
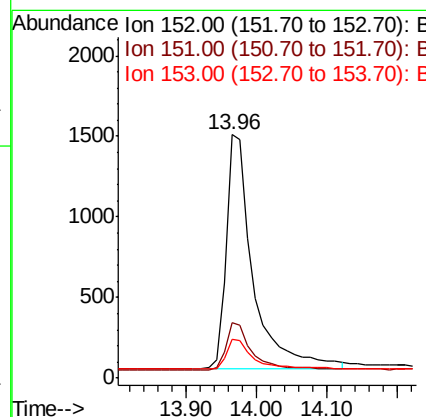
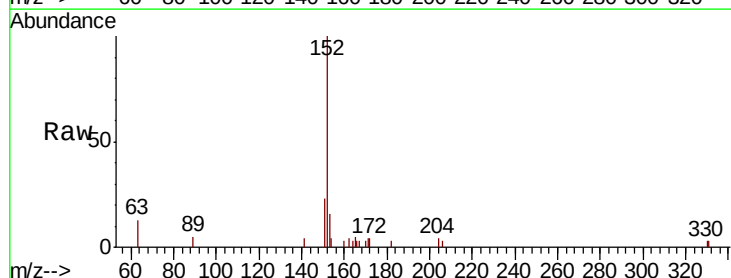
Instrument :
BNA_N
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

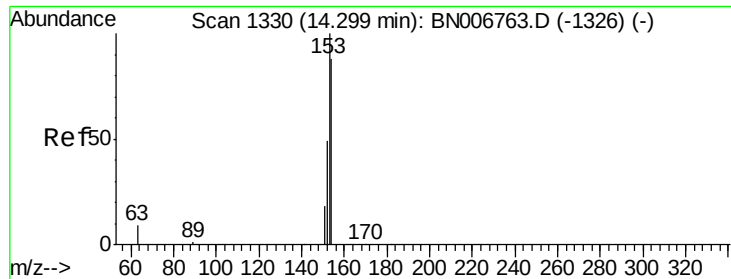
Tgt Ion:172 Resp: 9954
Ion Ratio Lower Upper
172 100
171 35.3 27.8 41.6
170 23.9 19.0 28.6



#16
Acenaphthylene
Concen: 0.119 ng
RT: 13.96 min Scan# 1300
Delta R.T. 0.00 min
Lab File: BN006769.D
Acq: 09 Jul 2019 16:32

Tgt Ion:152 Resp: 3918
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 0.123 ng

RT: 14.31 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

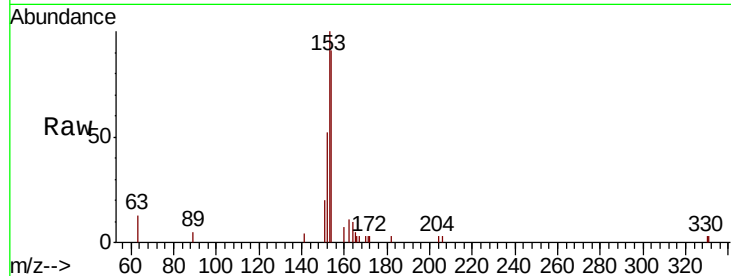
Tgt Ion:154 Resp: 2723

Ion Ratio Lower Upper

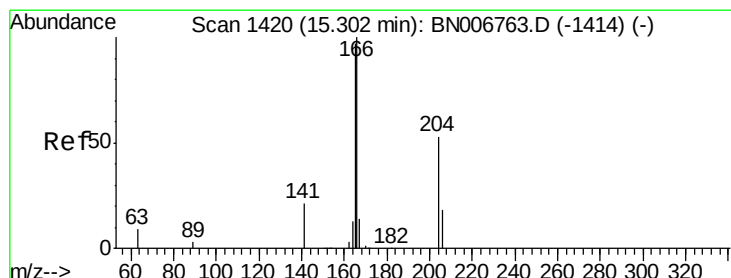
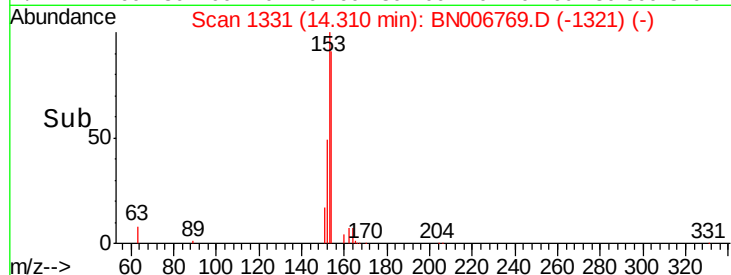
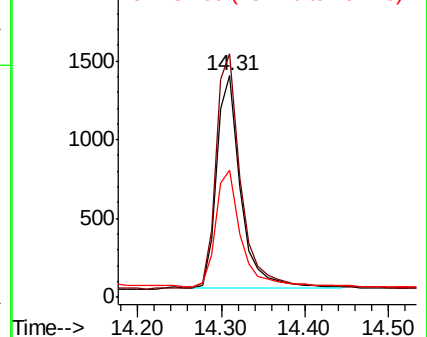
154 100

153 114.8 90.8 136.2

152 56.3 44.9 67.3



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: 0.116 ng

RT: 15.31 min Scan# 1421

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

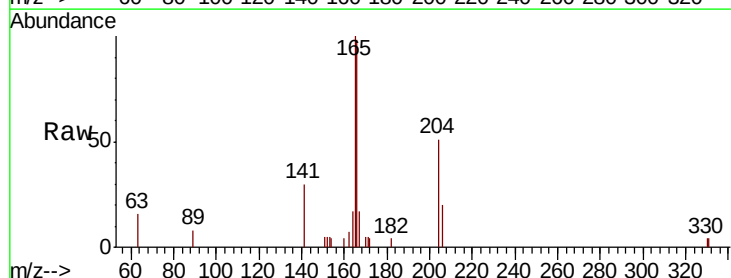
Tgt Ion:166 Resp: 3171

Ion Ratio Lower Upper

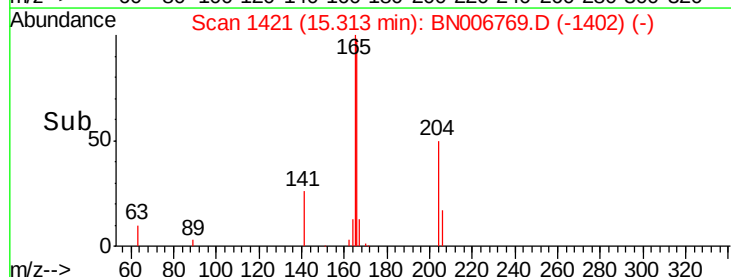
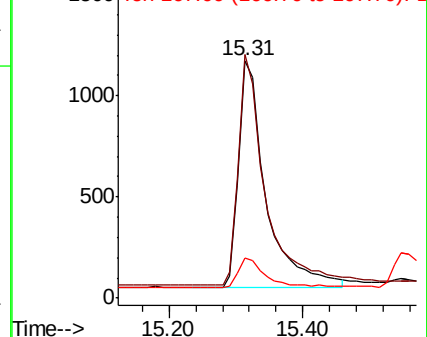
166 100

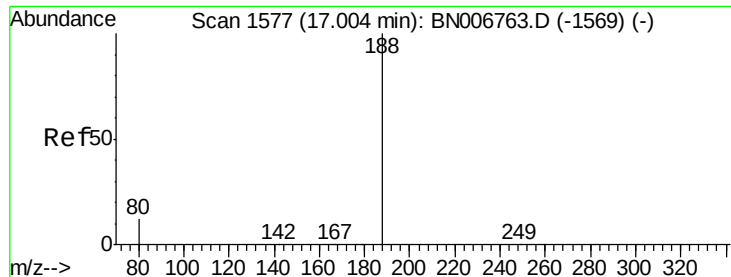
165 99.0 78.2 117.4

167 13.3 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: 17.01 min Scan# 1578

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

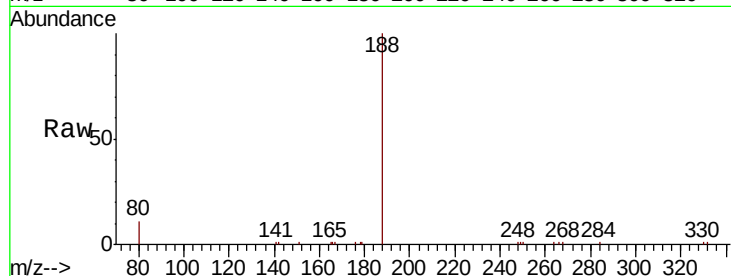
Tgt Ion:188 Resp: 16190

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

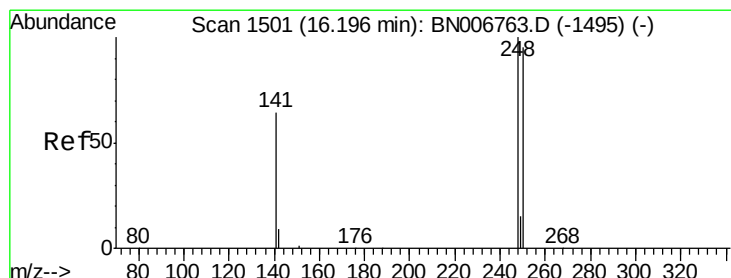
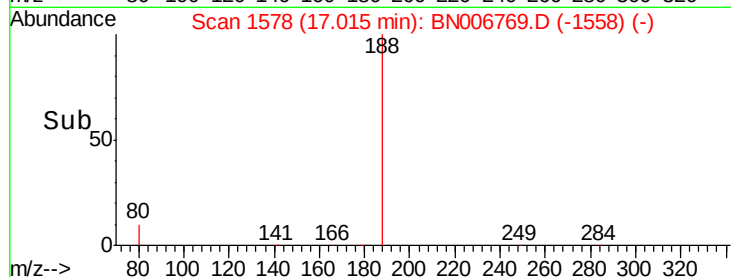
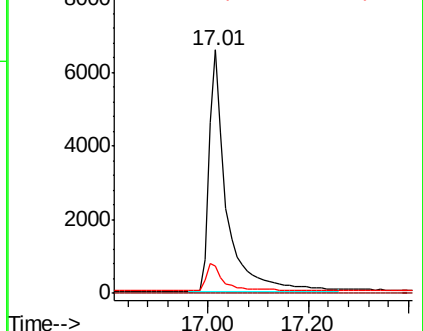
80 11.1 10.1 15.1



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: 0.108 ng

RT: 16.21 min Scan# 1502

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

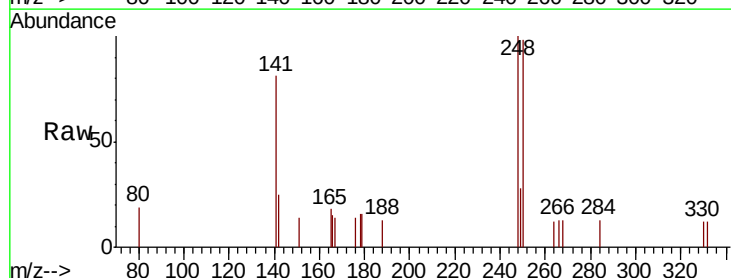
Tgt Ion:248 Resp: 989

Ion Ratio Lower Upper

248 100

250 97.7 76.5 114.7

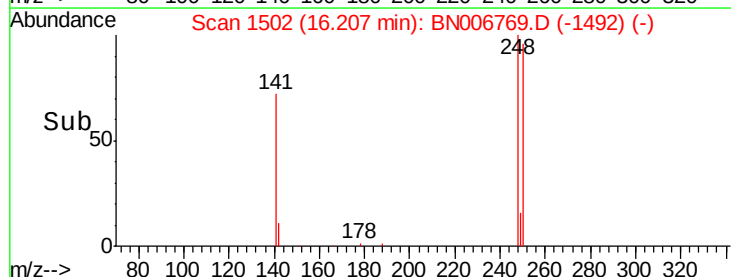
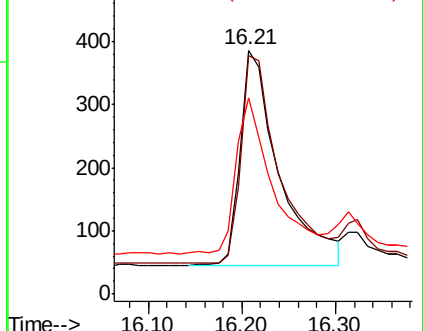
141 80.6 53.2 79.8#

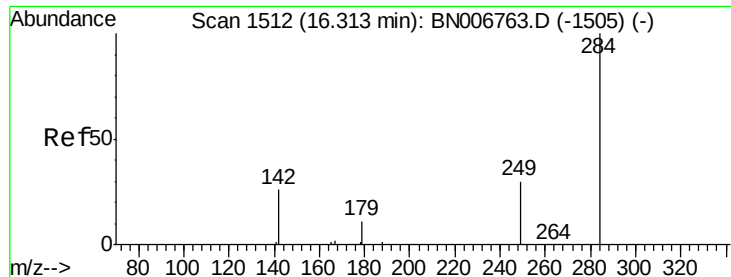


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.120 ng

RT: 16.32 min Scan# 1513

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

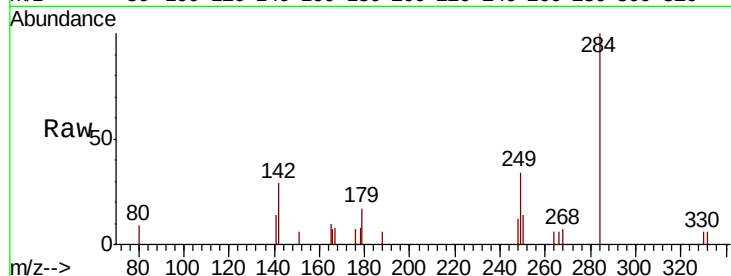
Tgt Ion:284 Resp: 1436

Ion Ratio Lower Upper

284 100

142 35.0 27.0 40.4

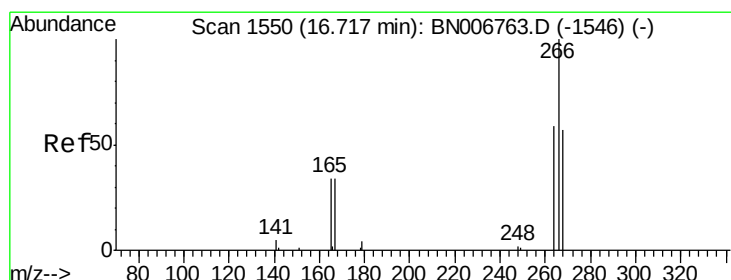
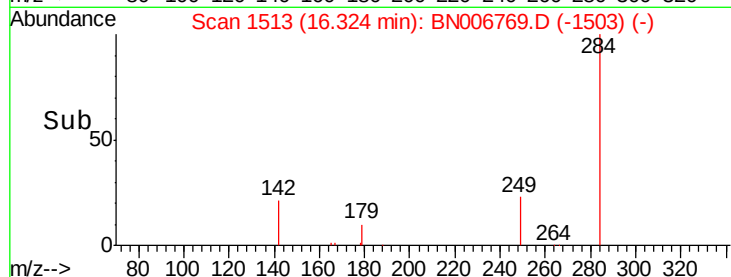
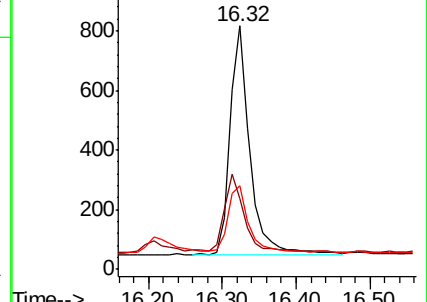
249 31.3 24.3 36.5



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: 0.307 ng

RT: 16.74 min Scan# 1552

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

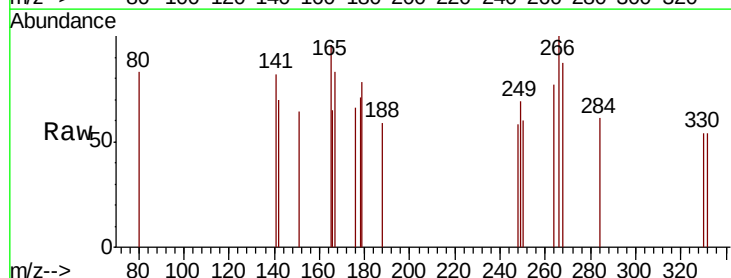
Tgt Ion:266 Resp: 227

Ion Ratio Lower Upper

266 100

264 77.1 56.2 84.4

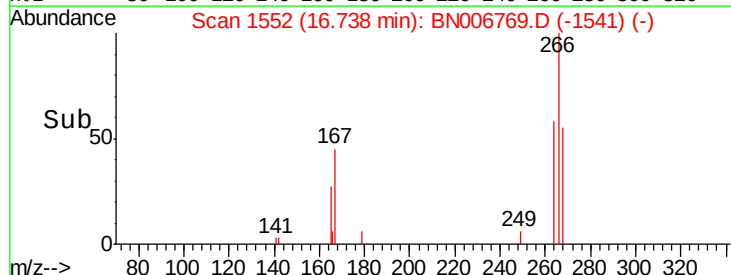
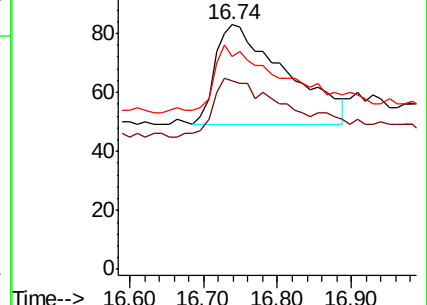
268 86.7 60.2 90.2

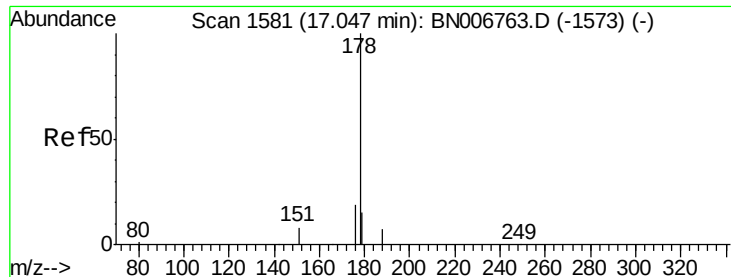


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.120 ng

RT: 17.06 min Scan# 1582

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

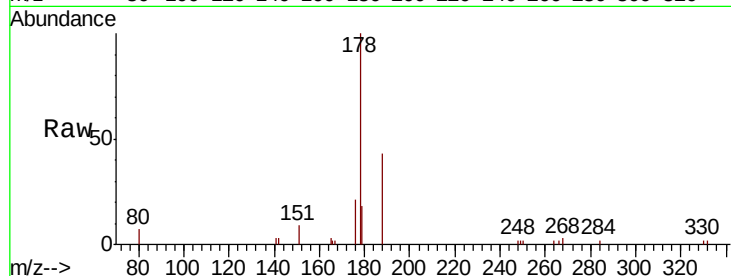
Tgt Ion:178 Resp: 5407

Ion Ratio Lower Upper

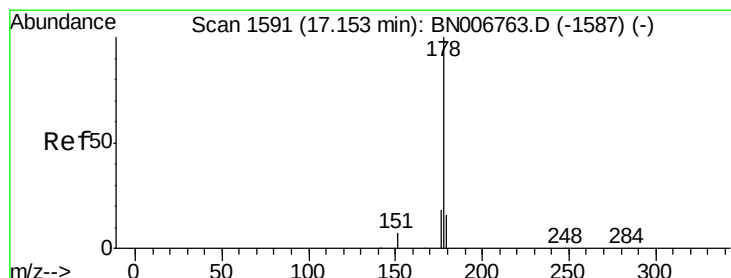
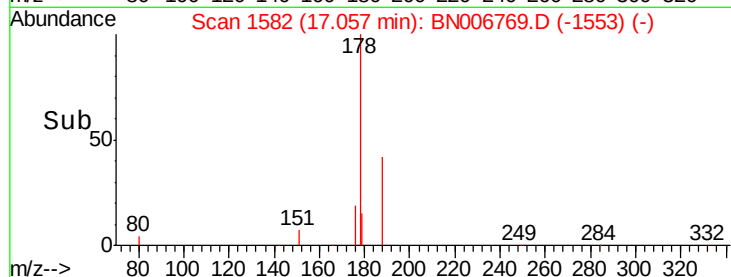
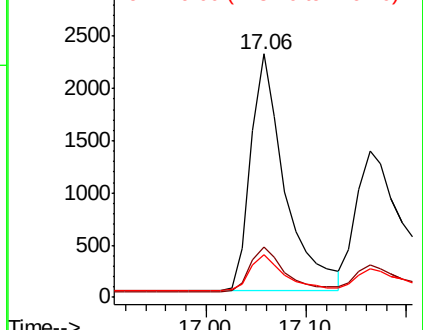
178 100

176 19.1 15.4 23.0

179 15.7 12.2 18.2



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: 0.103 ng

RT: 17.16 min Scan# 1592

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

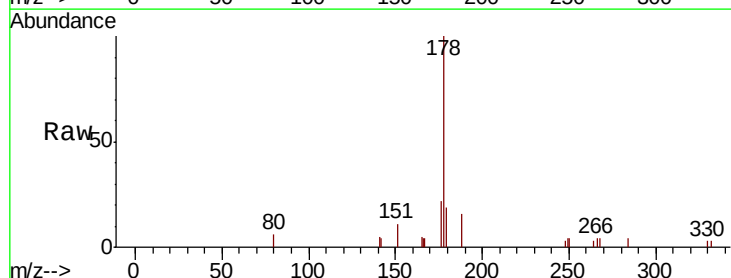
Tgt Ion:178 Resp: 4016

Ion Ratio Lower Upper

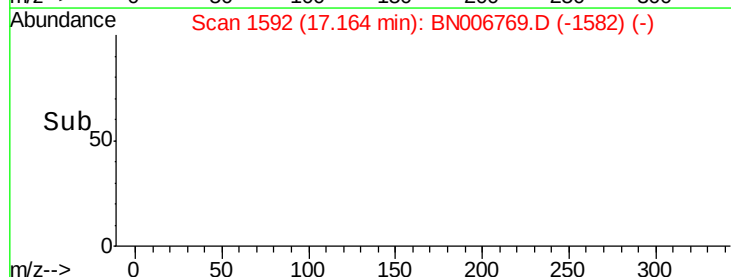
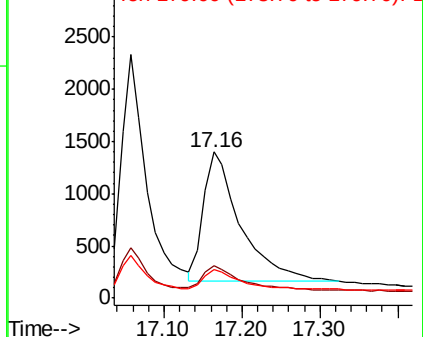
178 100

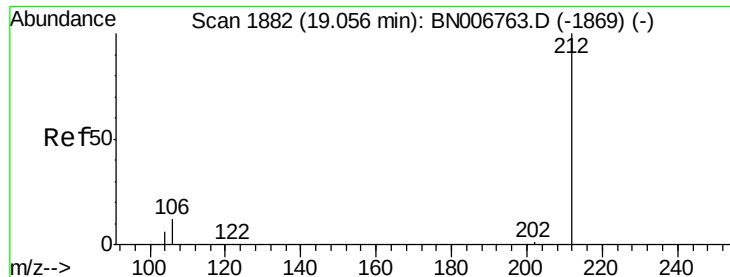
176 18.9 14.6 22.0

179 15.1 12.1 18.1



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





#25

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.06 min Scan# 1883

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

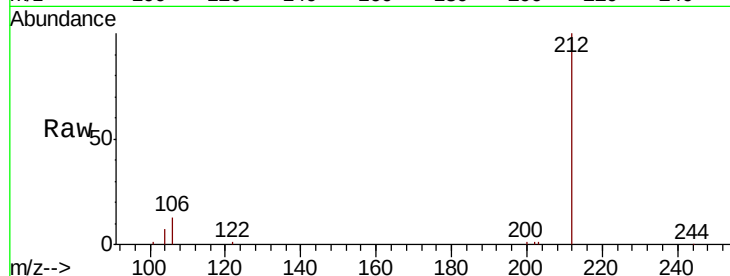
Tgt Ion:212 Resp: 19007

Ion Ratio Lower Upper

212 100

106 12.8 10.5 15.7

104 7.2 5.9 8.9

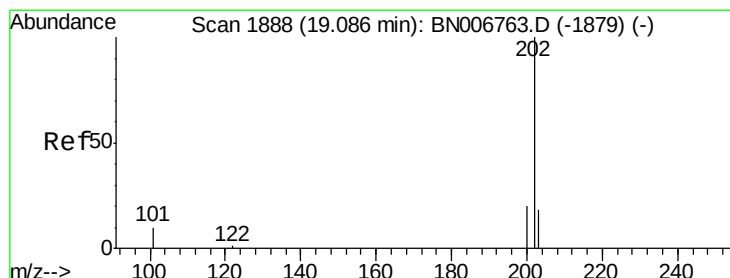
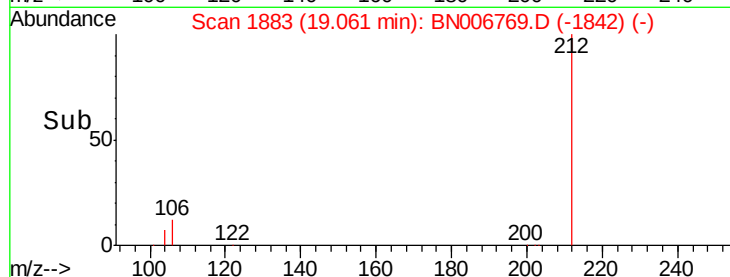
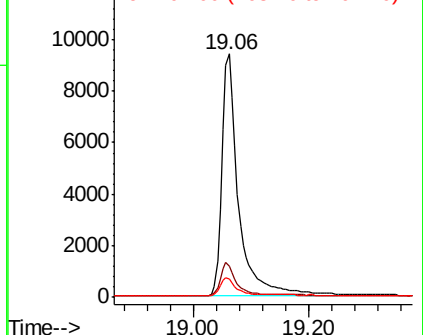


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.127 ng

RT: 19.09 min Scan# 1889

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

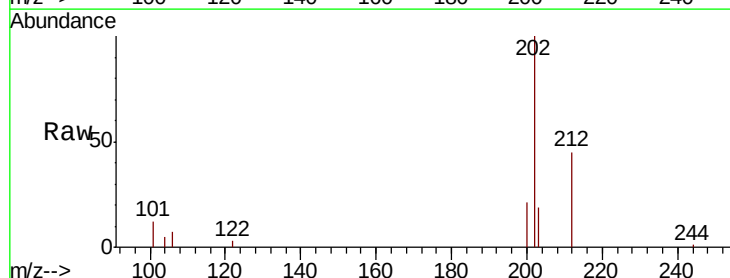
Tgt Ion:202 Resp: 7132

Ion Ratio Lower Upper

202 100

101 10.7 8.8 13.2

203 17.3 13.6 20.4

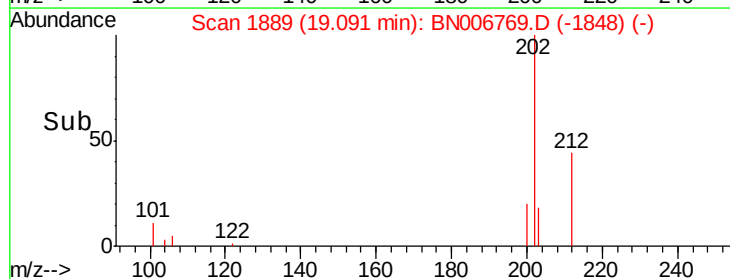
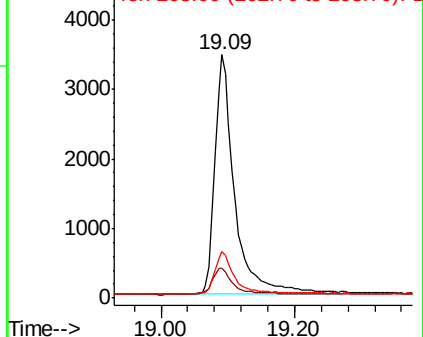


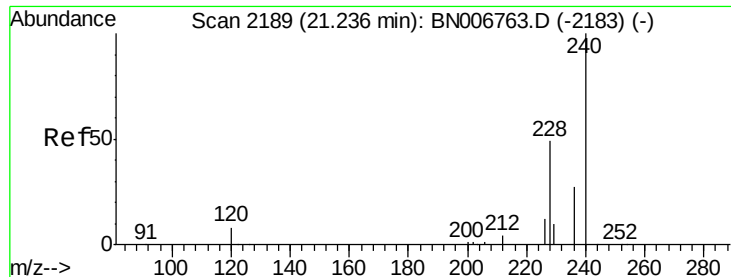
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.25 min Scan# 2190

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

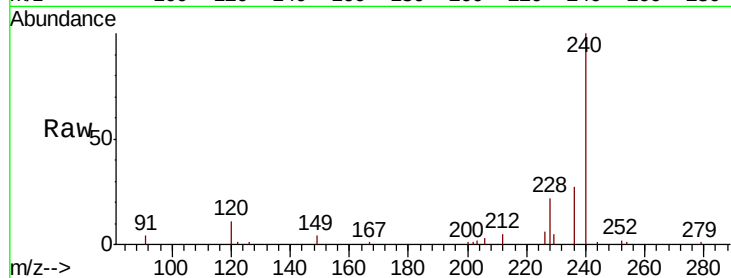
Tgt Ion:240 Resp: 16032

Ion Ratio Lower Upper

240 100

120 11.4 8.1 12.1

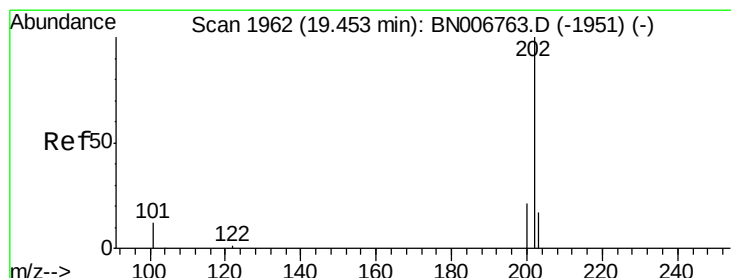
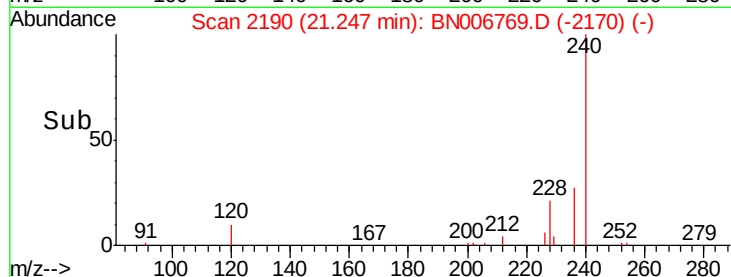
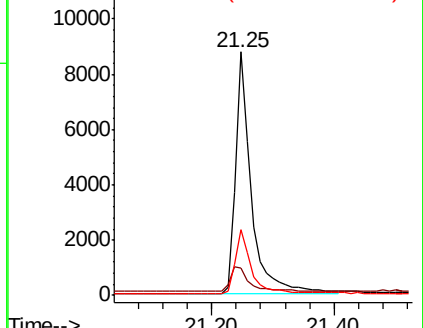
236 27.2 21.8 32.6



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: 0.131 ng

RT: 19.46 min Scan# 1964

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

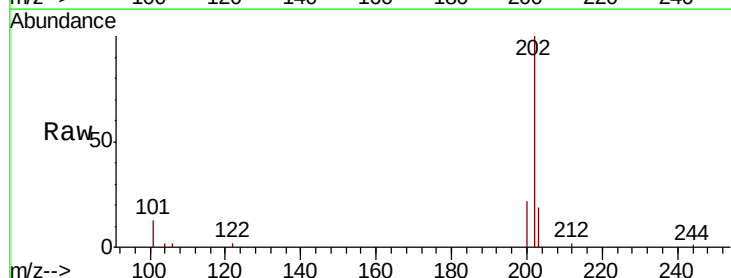
Tgt Ion:202 Resp: 7300

Ion Ratio Lower Upper

202 100

200 20.7 16.7 25.1

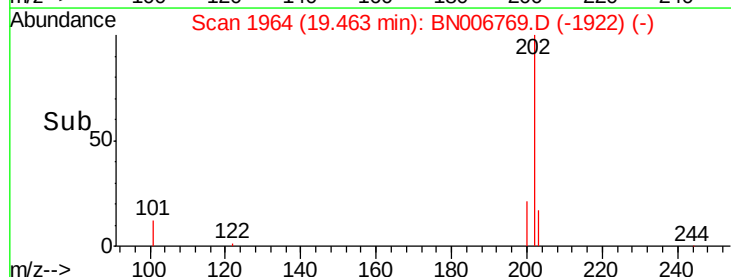
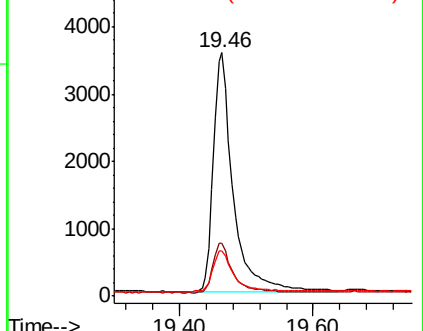
203 18.1 14.0 21.0

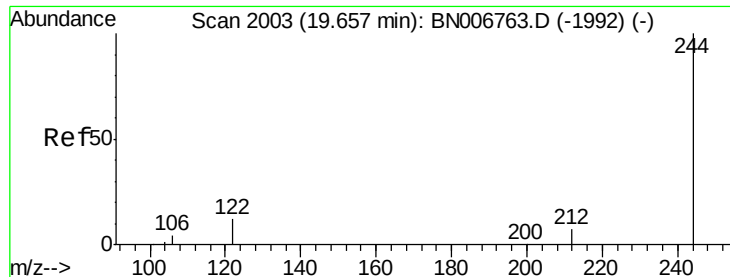


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.426 ng

RT: 19.66 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

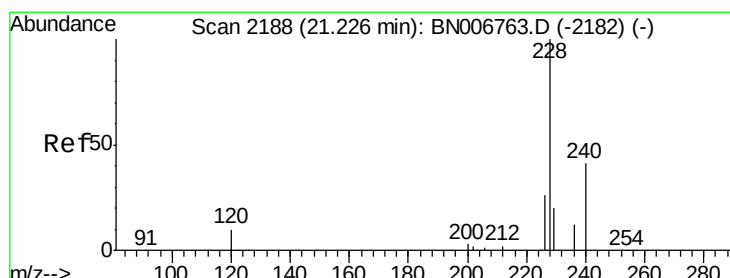
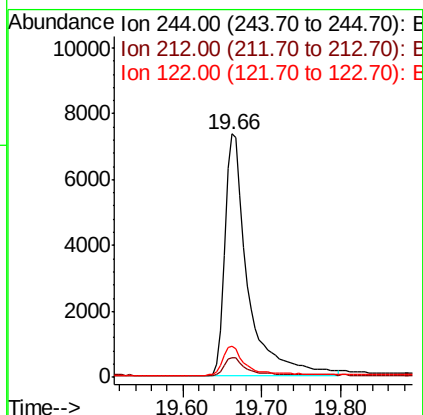
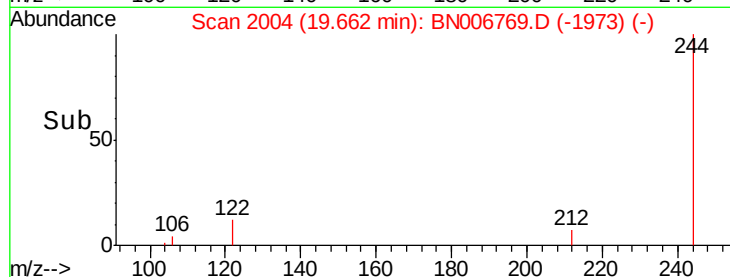
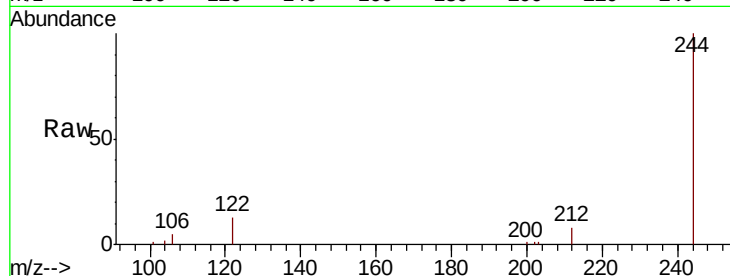
Tgt Ion:244 Resp: 15043

Ion Ratio Lower Upper

244 100

212 8.2 6.3 9.5

122 13.0 10.3 15.5



#30

Benzo(a)anthracene

Concen: 0.122 ng

RT: 21.24 min Scan# 2189

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

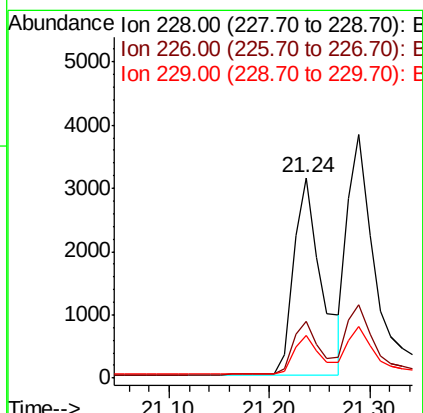
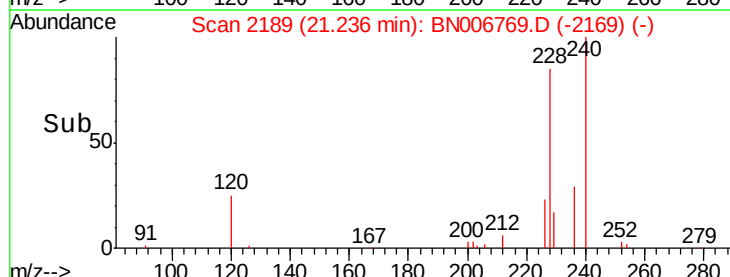
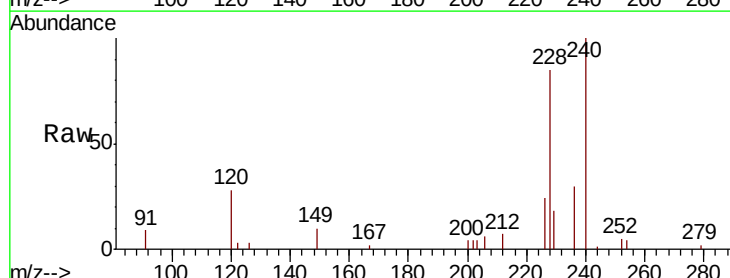
Tgt Ion:228 Resp: 6019

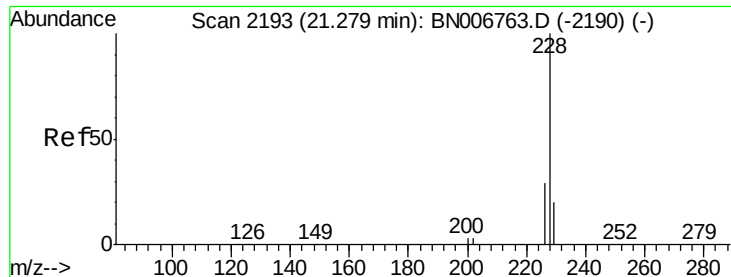
Ion Ratio Lower Upper

228 100

226 28.5 21.2 31.8

229 21.4 16.4 24.6





#31

Chrysene

Concen: 0.122 ng

RT: 21.29 min Scan# 2194

Delta R.T. 0.01 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

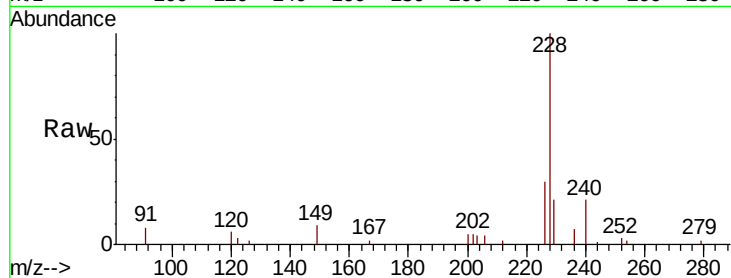
Tgt Ion:228 Resp: 6763

Ion Ratio Lower Upper

228 100

226 30.0 23.5 35.3

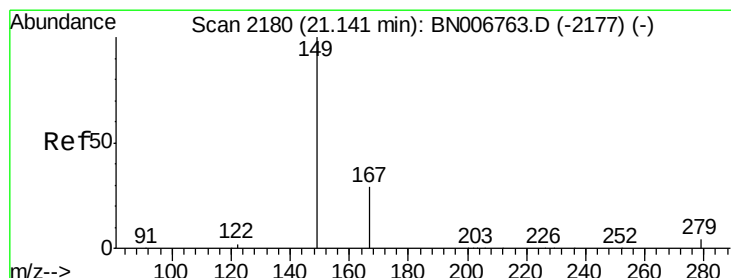
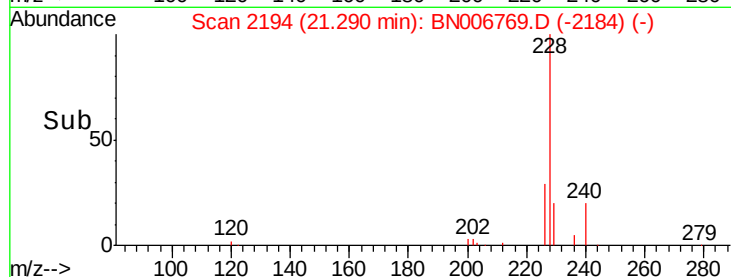
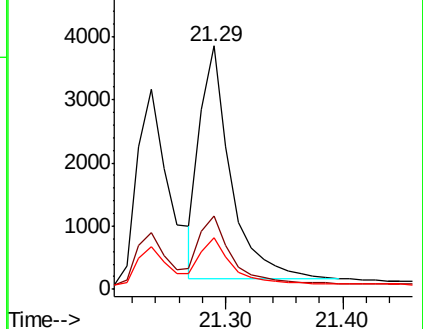
229 21.0 16.0 24.0



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: 0.100 ng

RT: 21.14 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

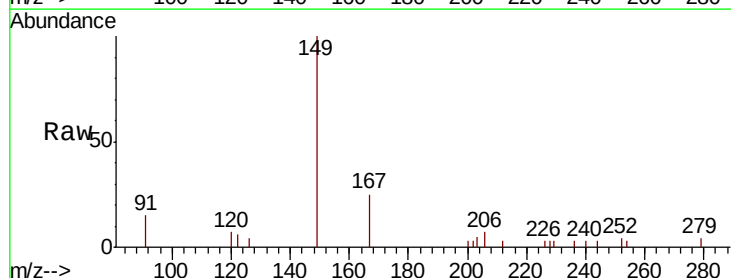
Tgt Ion:149 Resp: 2294

Ion Ratio Lower Upper

149 100

167 27.1 22.9 34.3

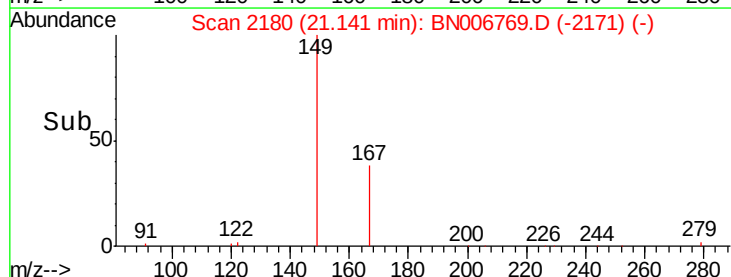
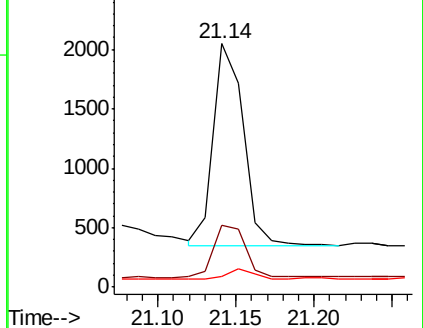
279 4.4 3.7 5.5

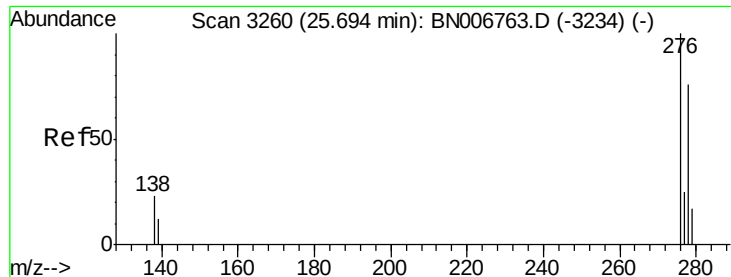


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.126 ng

RT: 25.73 min Scan# 3270

Delta R.T. 0.03 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

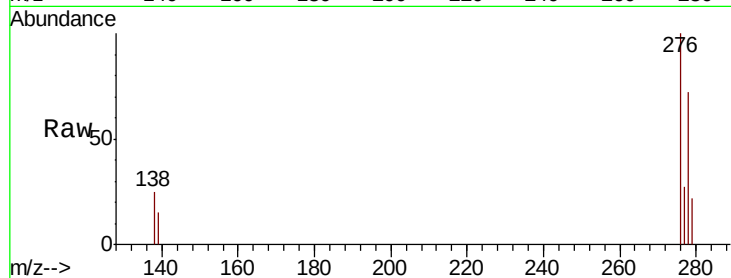
Tgt Ion: 276 Resp: 8520

Ion Ratio Lower Upper

276 100

138 22.3 17.9 26.9

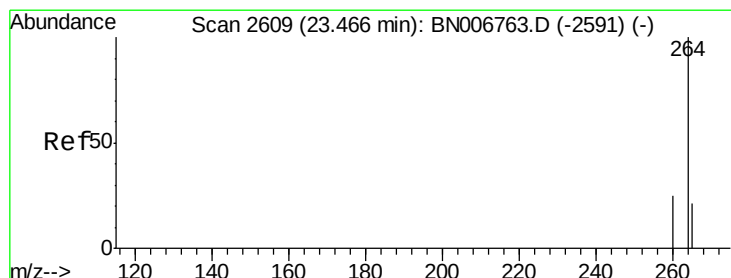
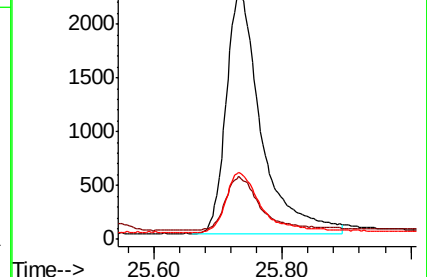
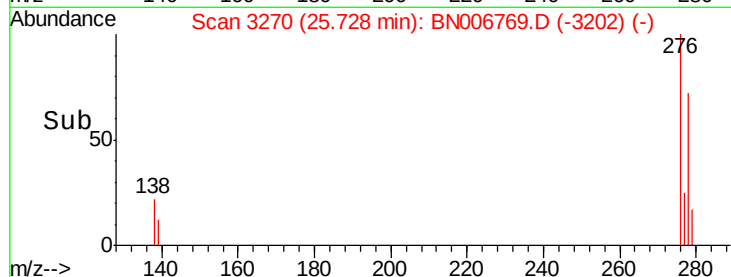
277 24.9 19.8 29.8



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: 23.49 min Scan# 2615

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

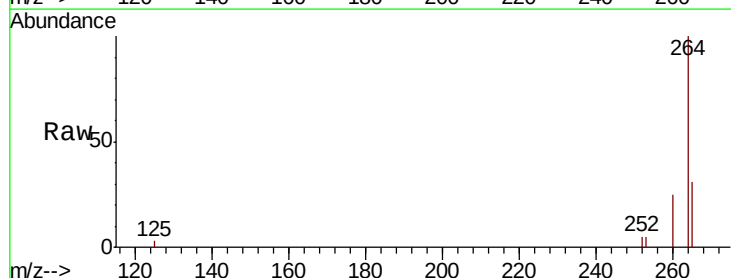
Tgt Ion: 264 Resp: 18470

Ion Ratio Lower Upper

264 100

260 24.9 20.2 30.4

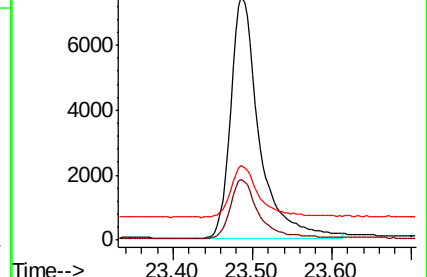
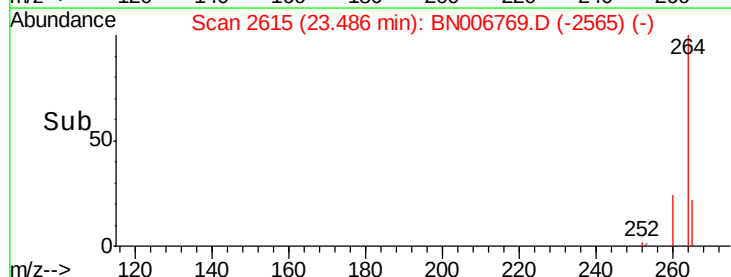
265 30.7 24.6 37.0

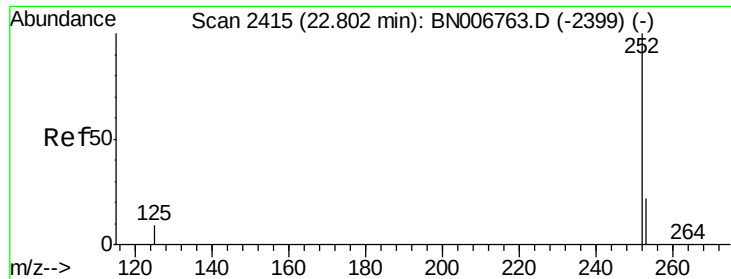


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.119 ng

RT: 22.83 min Scan# 2422

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

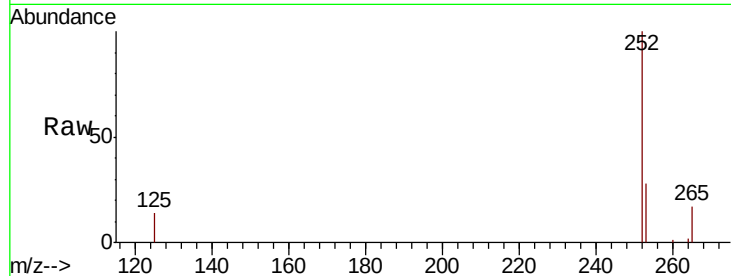
Tgt Ion:252 Resp: 6904

Ion Ratio Lower Upper

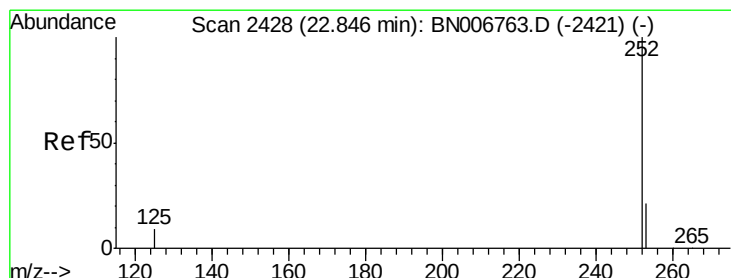
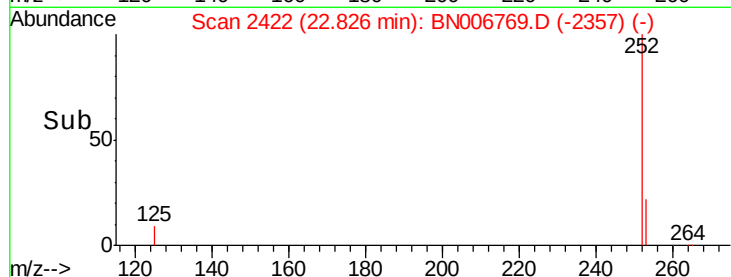
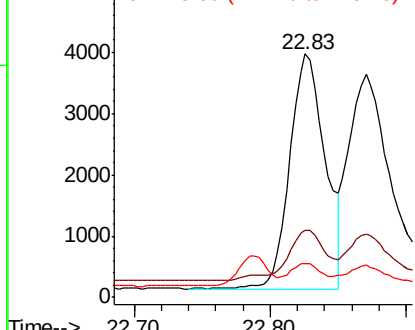
252 100

253 27.6 18.9 28.3

125 13.8 8.5 12.7#



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



#36

Benzo(k)fluoranthene

Concen: 0.130 ng

RT: 22.87 min Scan# 2435

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

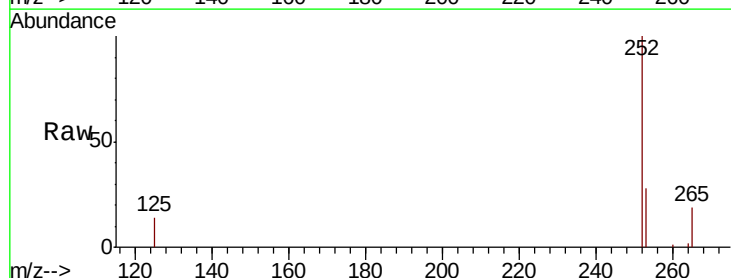
Tgt Ion:252 Resp: 8485

Ion Ratio Lower Upper

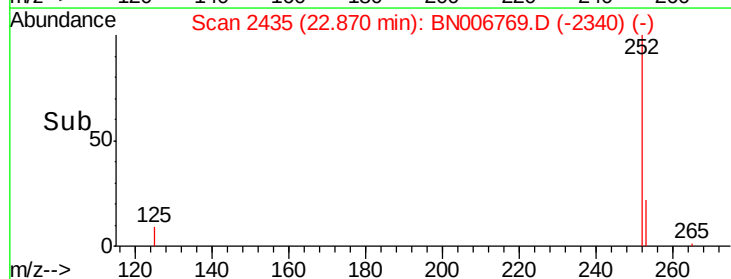
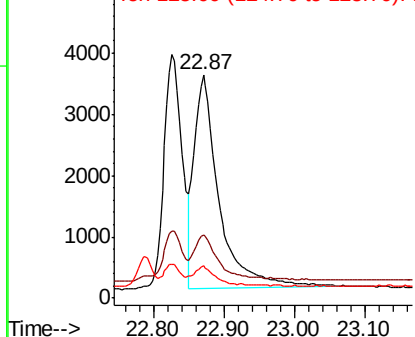
252 100

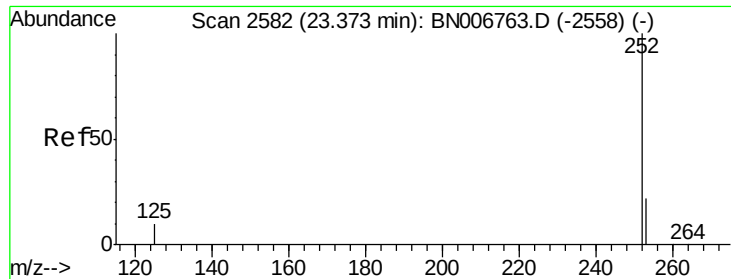
253 28.4 18.9 28.3#

125 14.3 8.4 12.6#



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: 0.126 ng

RT: 23.40 min Scan# 2589

Delta R.T. 0.02 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

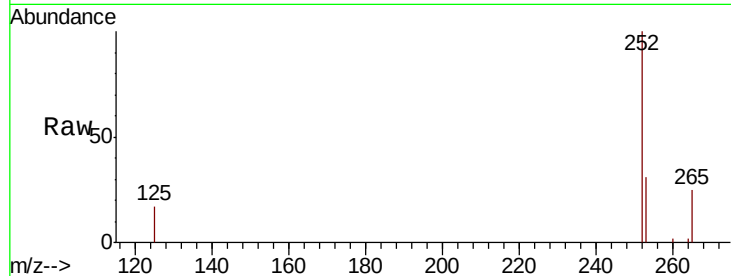
Tgt Ion:252 Resp: 7092

Ion Ratio Lower Upper

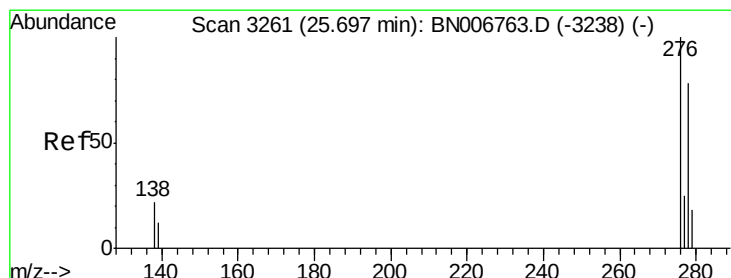
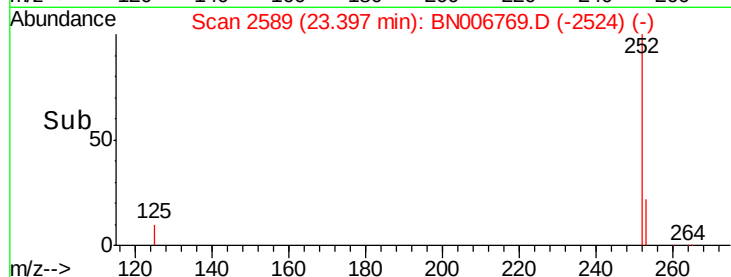
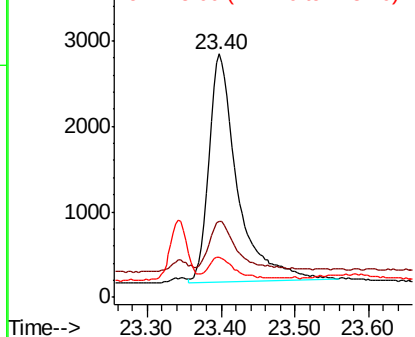
252 100

253 31.3 19.5 29.3#

125 16.6 9.5 14.3#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.121 ng

RT: 25.74 min Scan# 3272

Delta R.T. 0.04 min

Lab File: BN006769.D

Acq: 09 Jul 2019 16:32

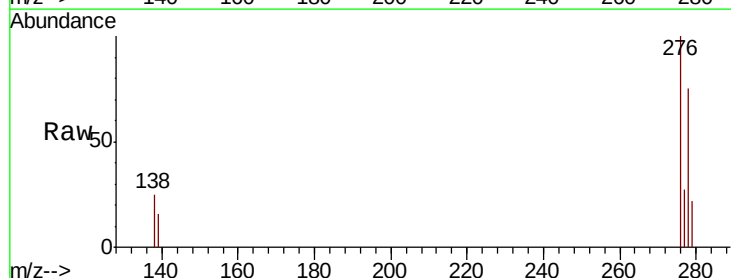
Tgt Ion:278 Resp: 6855

Ion Ratio Lower Upper

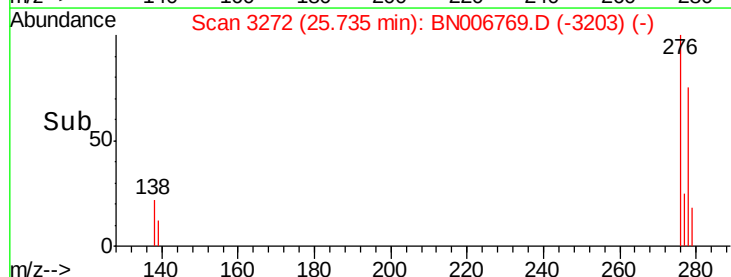
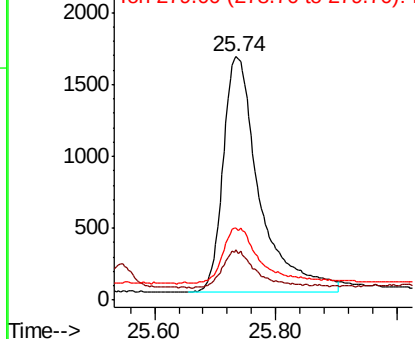
278 100

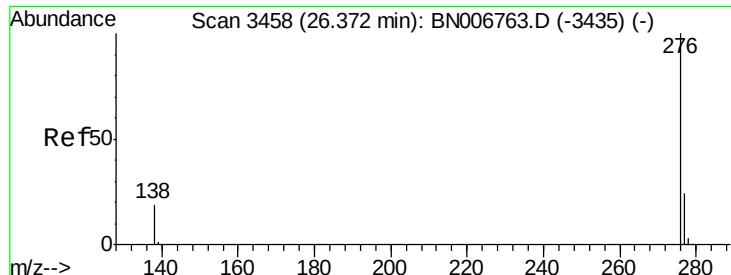
139 20.9 13.1 19.7#

279 29.7 20.2 30.4



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: 0.130 ng

RT: 26.41 min Scan# 3469

Delta R.T. 0.04 min

Lab File: BN006769.D

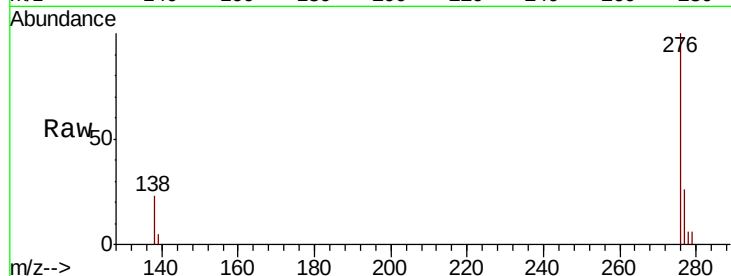
Acq: 09 Jul 2019 16:32

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019



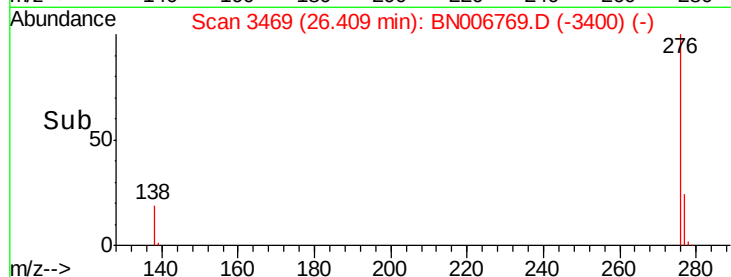
Tgt Ion: 276 Resp: 7719

Ion Ratio Lower Upper

276 100

277 26.3 19.4 29.2

138 22.8 16.2 24.4



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

