

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120519\
 Data File : BN008846.D
 Acq On : 05 Dec 2019 11:32
 Operator : JU
 Sample : K5609-12
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

Quant Time: Dec 05 12:30:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN120419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 04 15:42:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	8801	0.40	ng	0.00
7) Naphthalene-d8	10.33	136	17028	0.40	ng	0.00
13) Acenaphthene-d10	14.19	164	11751	0.40	ng	0.00
19) Phenanthrene-d10	16.94	188	26101	0.40	ng	0.00
27) Chrysene-d12	21.14	240	25837	0.40	ng	-0.01
34) Perylene-d12	23.30	264	30642	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	1237818	51.96	ng	0.00
5) Phenol-d6	6.77	99	1967274	60.61	ng	0.00
8) Nitrobenzene-d5	8.71	82	1207961	80.38	ng	0.00
11) 2-Methylnaphthalene-d10	11.93	152	68	0.00	ng	0.01
14) 2,4,6-Tribromophenol	15.70	330	915099	143.14	ng	0.00
15) 2-Fluorobiphenyl	12.82	172	3138464	71.27	ng	0.01
25) Fluoranthene-d10	18.95	212	137	0.00	ng	-0.02
29) Terphenyl-d14	19.59	244	4360556	73.29	ng	0.00

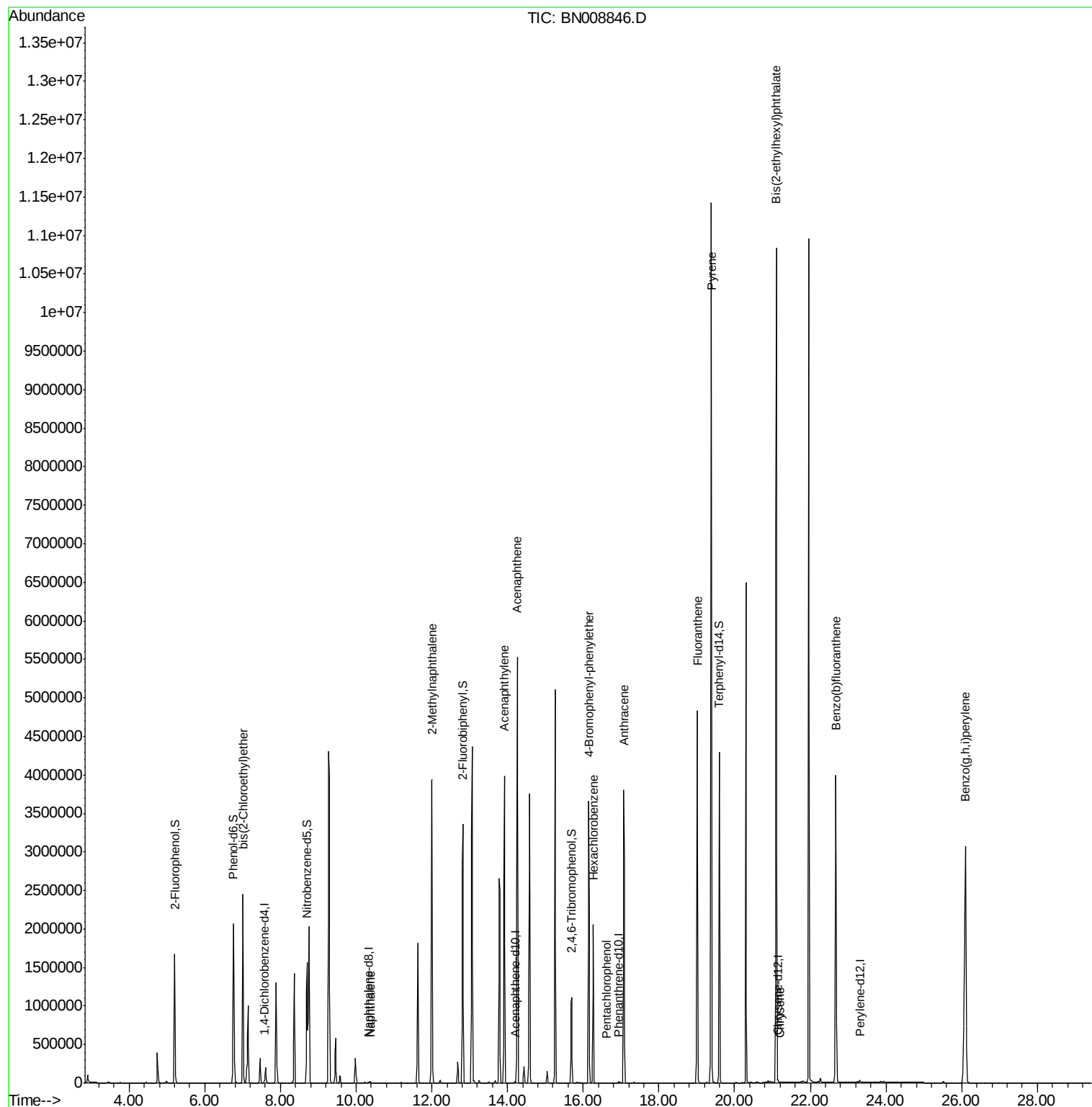
Target Compounds					Qvalue	
6) bis(2-Chloroethyl)ether	7.01	93	1530182	52.417	ng	97
9) Naphthalene	10.37	128	21481	0.473	ng	99
12) 2-Methylnaphthalene	12.00	142	2973166	88.821	ng	98
16) Acenaphthylene	13.91	152	4187306	76.392	ng	99
17) Acenaphthene	14.26	154	2925509	84.124	ng	96
20) 4-Bromophenyl-phenylether	16.15	248	1790347	117.151	ng	# 89
21) Hexachlorobenzene	16.26	284	1663832	94.370	ng	99
22) Pentachlorophenol	16.60	266	367	0.052	ng	98
24) Anthracene	17.07	178	4045121	55.295	ng	99
26) Fluoranthene	19.01	202	4496733	46.868	ng	99
28) Pvrene	19.39	202	11399666	126.457	ng	97
31) Chrysene	21.19	228	1991	0.022	ng	# 82
32) Bis(2-ethylhexyl)phthalate	21.10	149	10166119	163.307	ng	# 94
35) Benzo(b)fluoranthene	22.68	252	5202752	51.119	ng	# 92
39) Benzo(a,h,i)perylene	26.10	276	6735593	67.862	ng	97

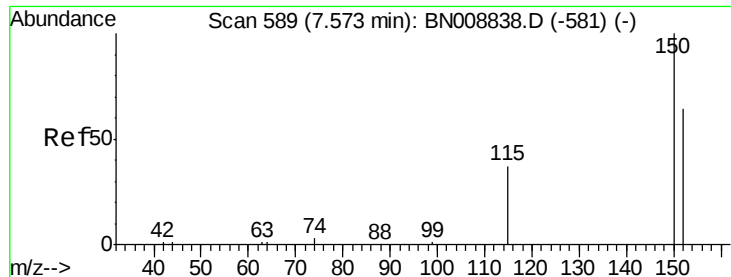
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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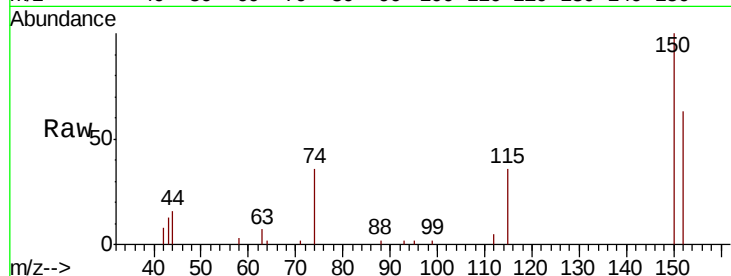


#1

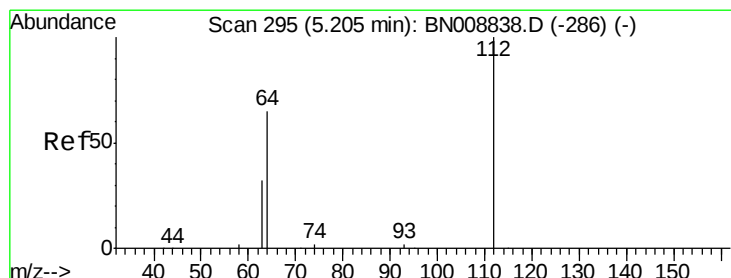
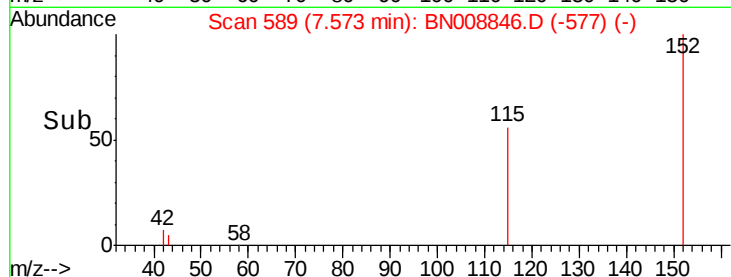
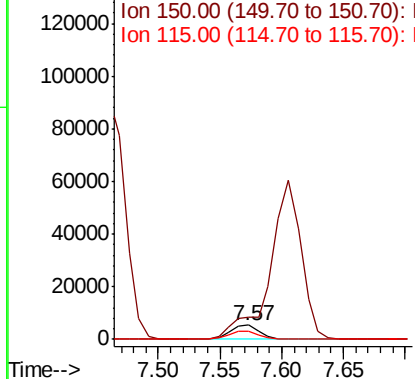
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.57 min Scan# 589
 Delta R.T. -0.00 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

Tot Ion:152 Resp: 8801
 Ion Ratio Lower Upper
 152 100
 150 159.7 123.9 185.9
 115 57.6 49.9 74.9



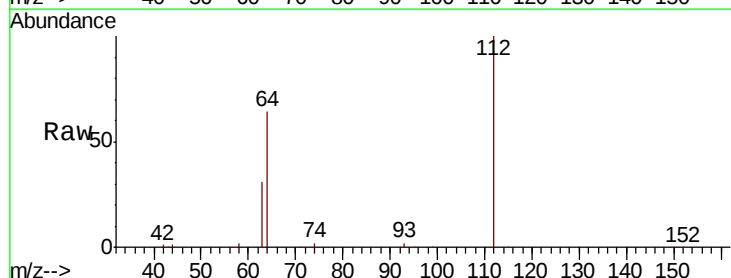
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



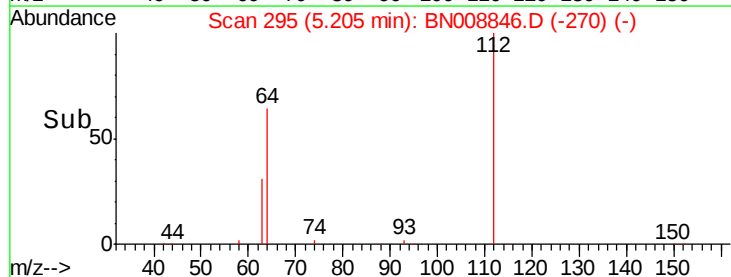
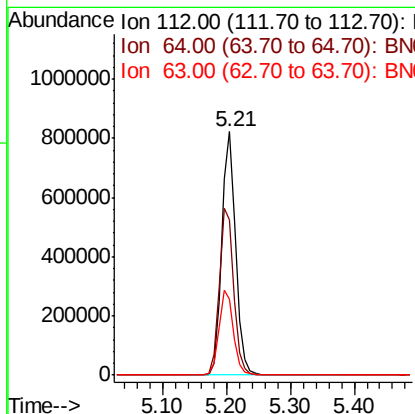
#4

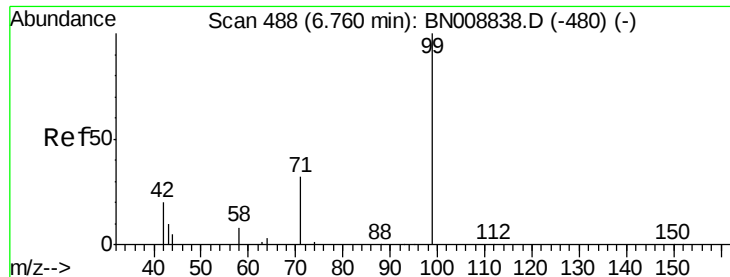
2-Fluorophenol
 Concen: 51.958 ng
 RT: 5.21 min Scan# 295
 Delta R.T. -0.00 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

Tgt Ion:112 Resp: 1237818
 Ion Ratio Lower Upper
 112 100
 64 71.0 56.3 84.5
 63 36.0 28.2 42.2



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: 60.606 ng

RT: 6.77 min Scan# 489

Delta R.T. 0.01 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

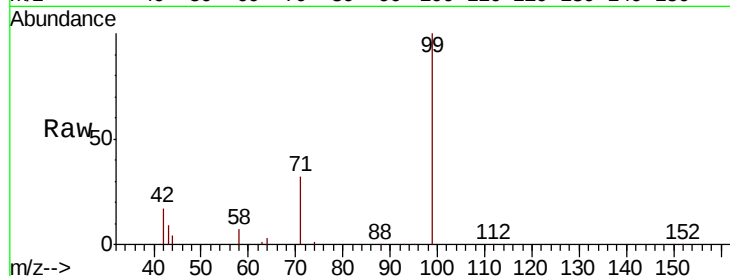
Tot Ion: 99 Resp: 1967274

Ion Ratio Lower Upper

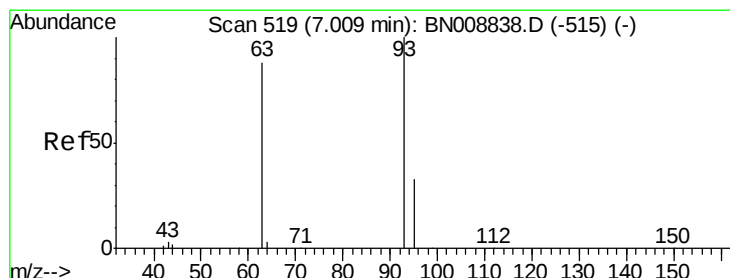
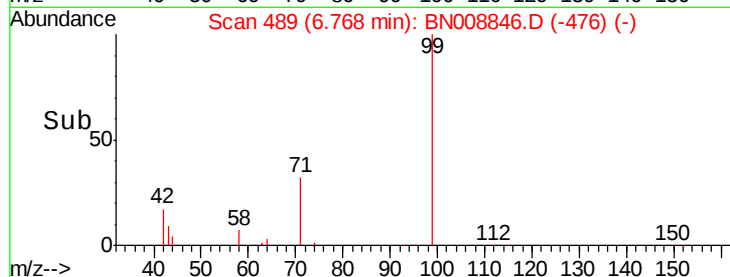
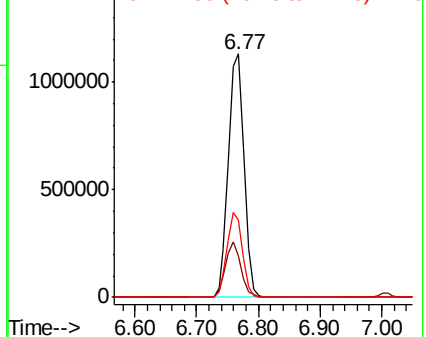
99 100

42 22.6 18.1 27.1

71 34.4 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN0
Ion 42.00 (41.70 to 42.70): BN0
Ion 71.00 (70.70 to 71.70): BN0



#6

bis(2-Chloroethyl)ether

Concen: 52.417 ng

RT: 7.01 min Scan# 519

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

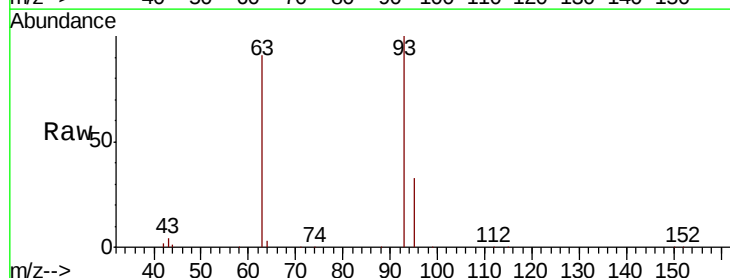
Tgt Ion: 93 Resp: 1530182

Ion Ratio Lower Upper

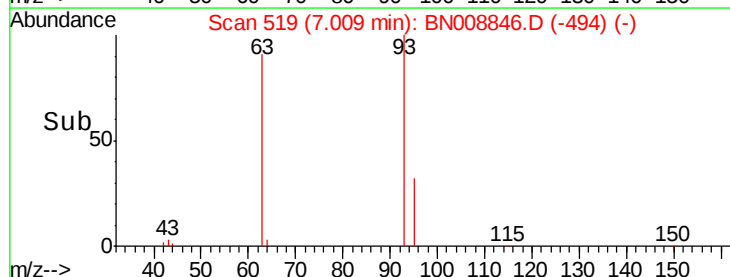
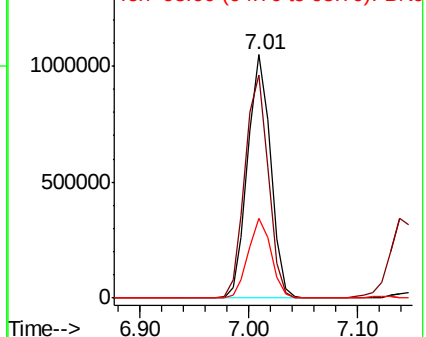
93 100

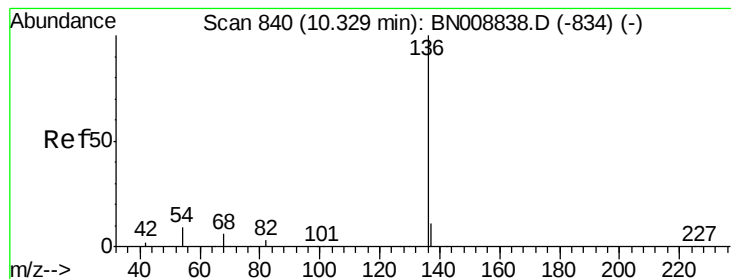
63 93.1 72.1 108.1

95 32.7 25.7 38.5



Abundance Ion 93.00 (92.70 to 93.70): BN0
Ion 63.00 (62.70 to 63.70): BN0
Ion 95.00 (94.70 to 95.70): BN0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.33 min Scan# 840

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

Tot Ion:136 Resp: 17028

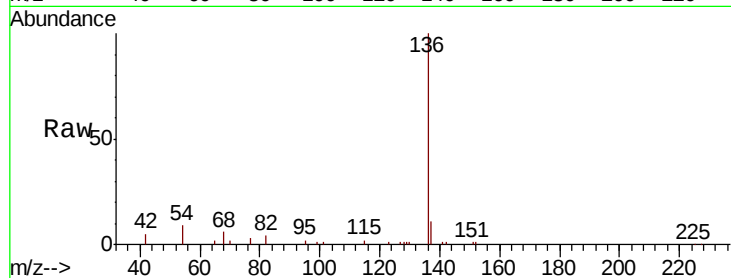
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 9.1 8.2 12.2

68 6.3 5.4 8.2

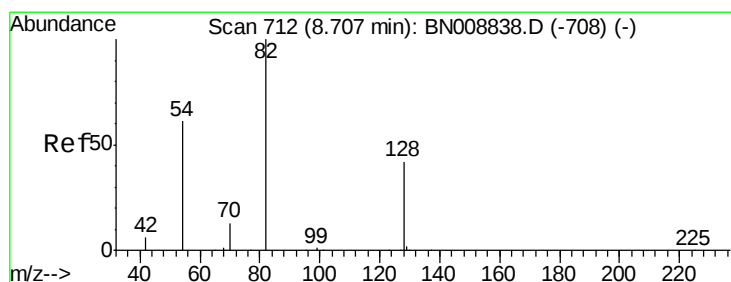
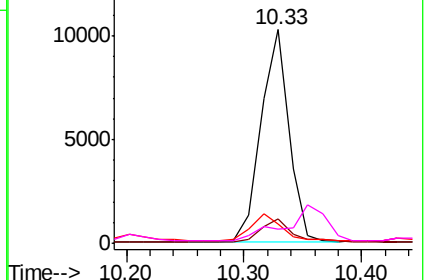
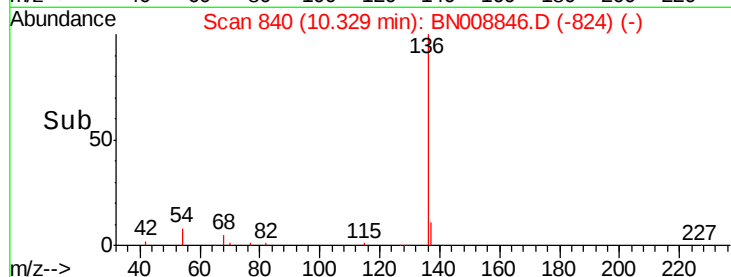


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 80.380 ng

RT: 8.71 min Scan# 712

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

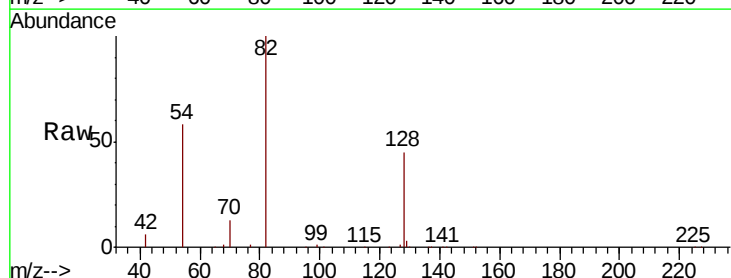
Tgt Ion: 82 Resp: 1207961

Ion Ratio Lower Upper

82 100

128 45.1 35.0 52.6

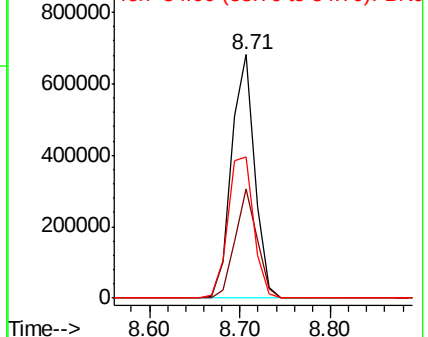
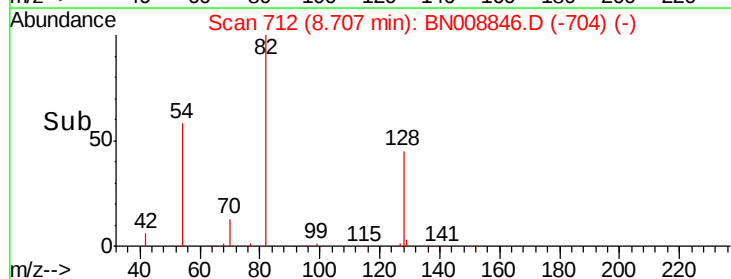
54 58.1 50.2 75.2

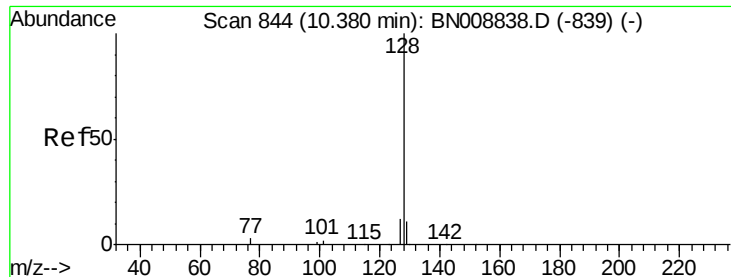


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.473 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.01 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

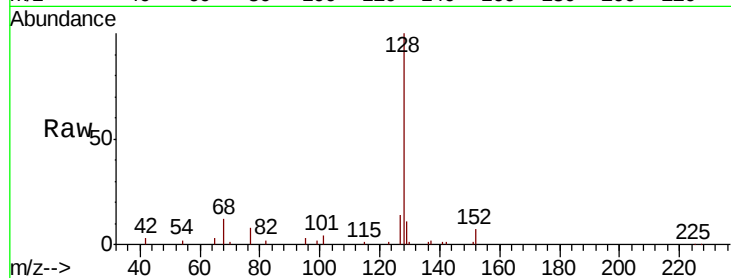
Tot Ion:128 Resp: 21481

Ion Ratio Lower Upper

128 100

129 11.5 9.3 13.9

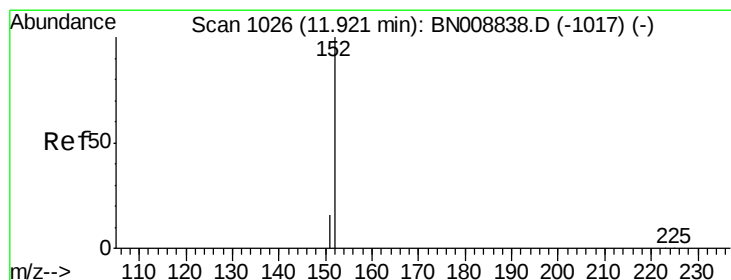
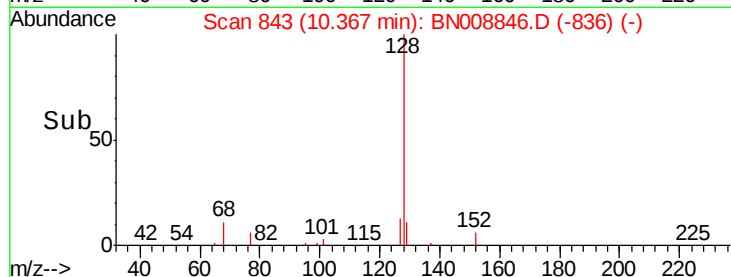
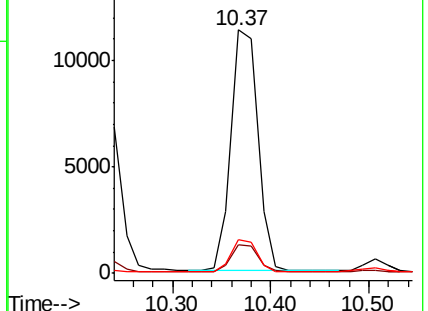
127 13.9 10.5 15.7



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



#11

2-Methylnaphthalene-d10

Concen: 0.002 ng

RT: 11.93 min Scan# 1029

Delta R.T. 0.01 min

Lab File: BN008846.D

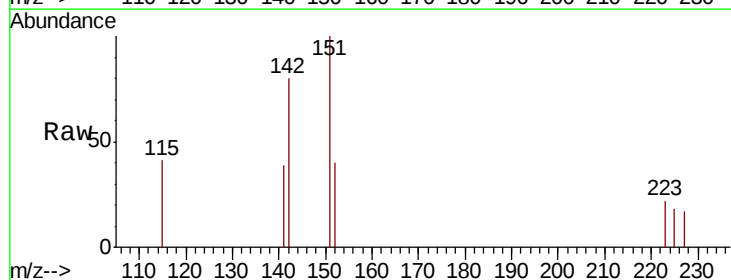
Acq: 05 Dec 2019 11:32

Tgt Ion:152 Resp: 68

Ion Ratio Lower Upper

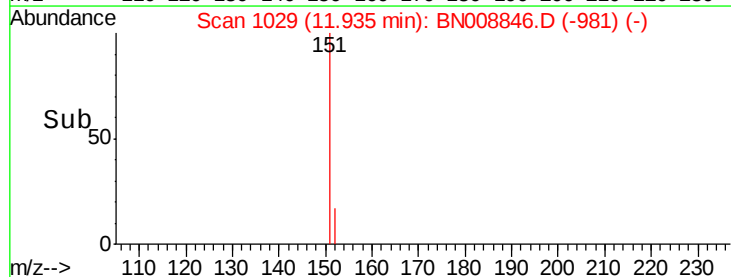
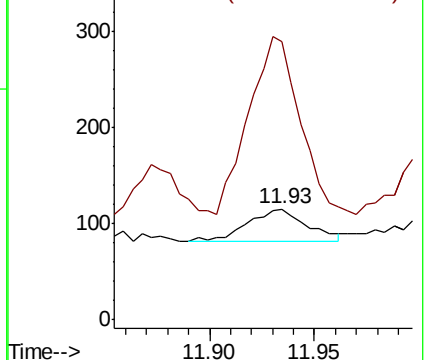
152 100

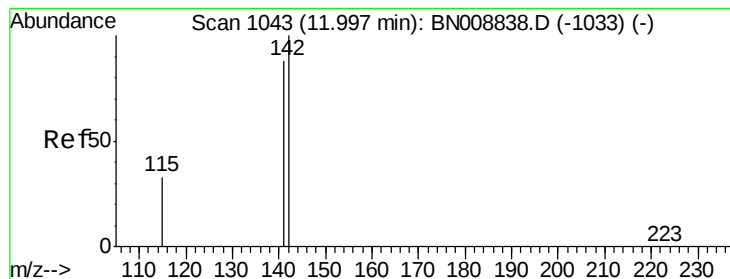
151 457.4 15.2 22.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 88.821 ng

RT: 12.00 min Scan# 1044

Delta R.T. 0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

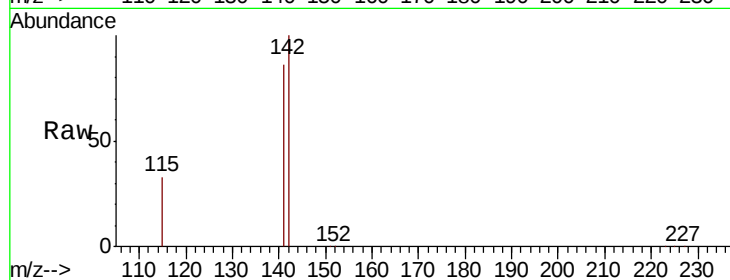
Tot Ion:142 Resp: 2973166

Ion Ratio Lower Upper

142 100

141 85.5 70.2 105.4

115 33.2 27.6 41.4

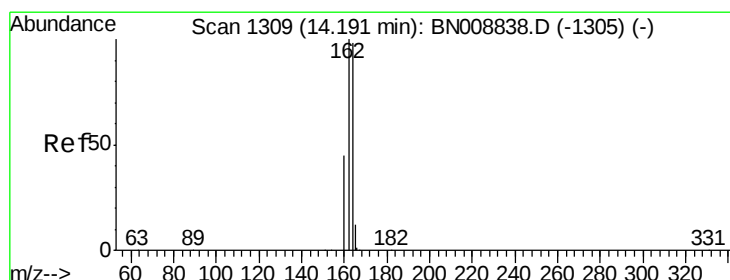
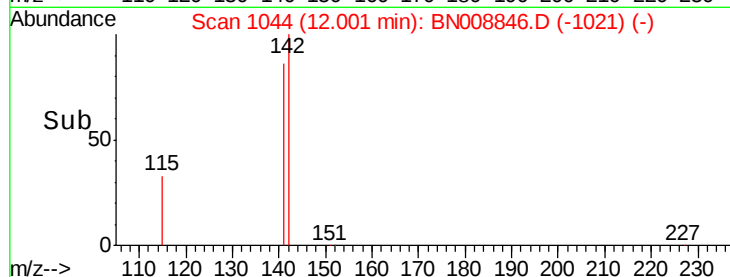
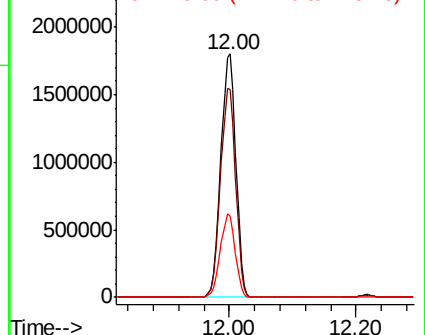


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.19 min Scan# 1309

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

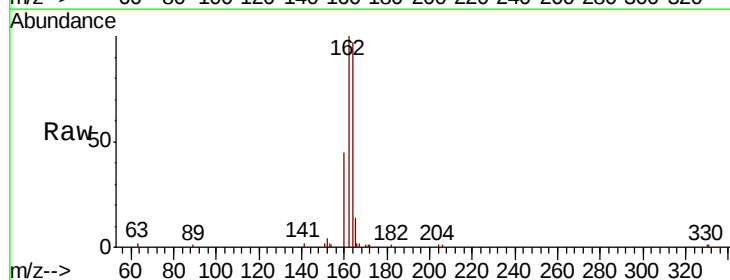
Tgt Ion:164 Resp: 11751

Ion Ratio Lower Upper

164 100

162 103.2 81.9 122.9

160 46.2 37.4 56.2

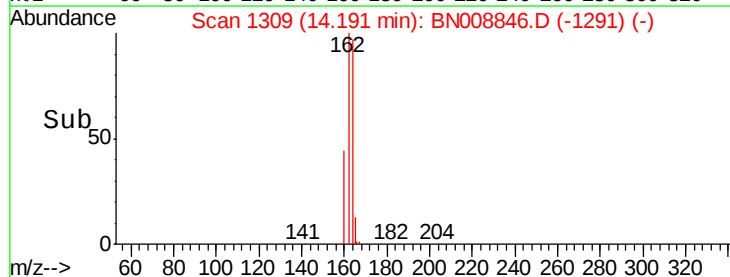
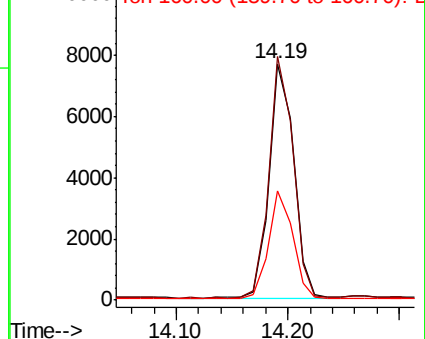


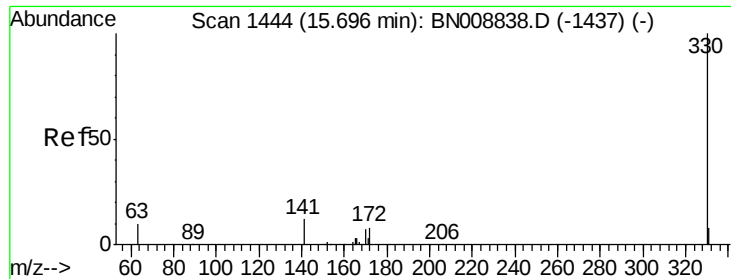
Abundance

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

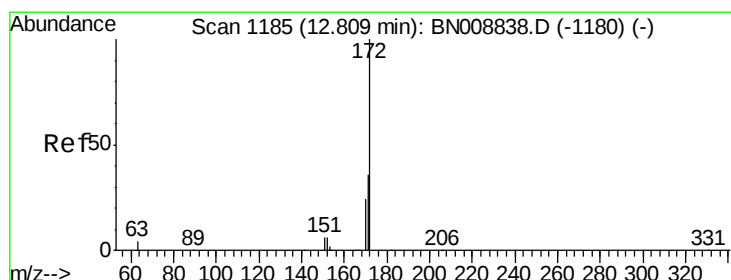
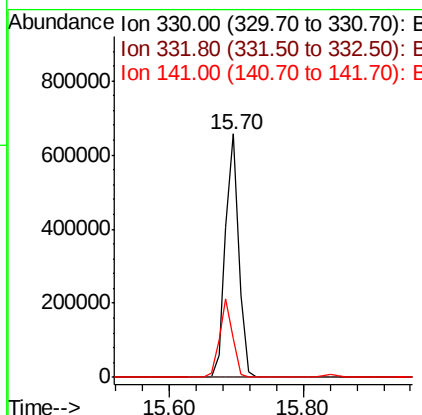
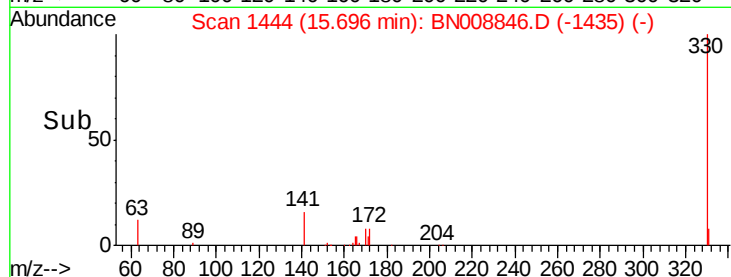
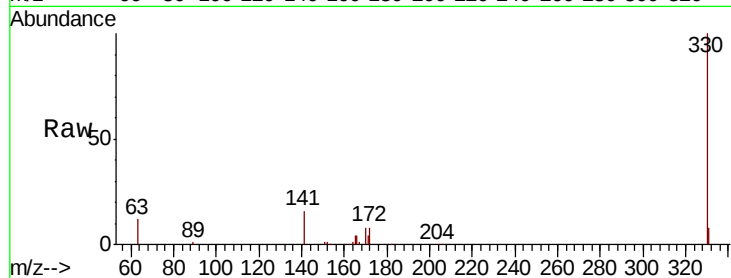




#14
 2,4,6-Tribromophenol
 Concen: 143.138 ng
 RT: 15.70 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

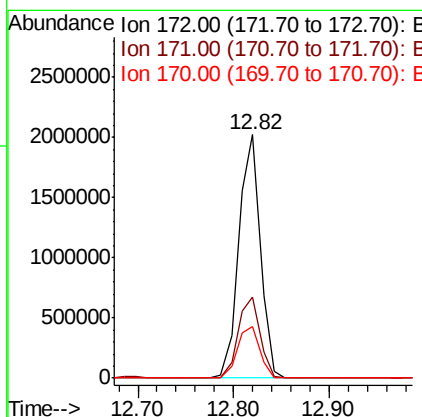
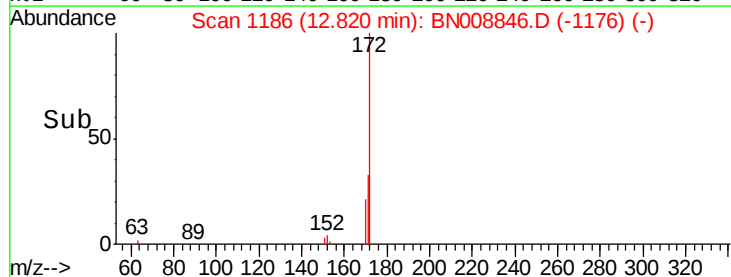
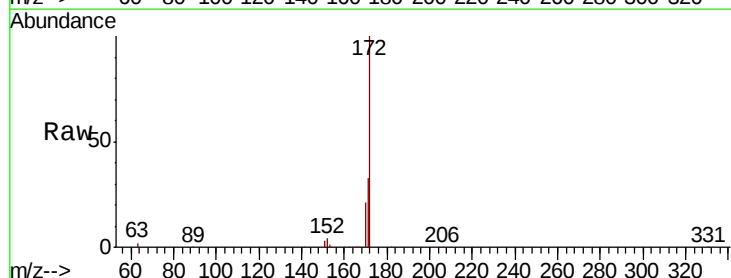
Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

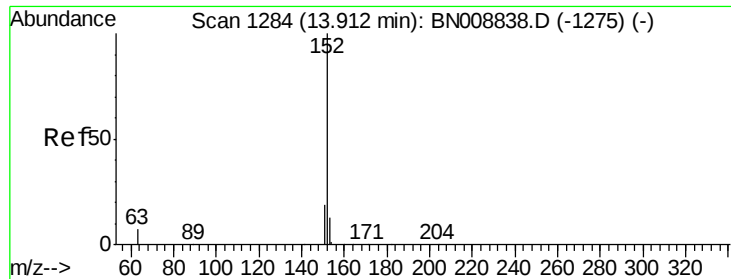
Tot Ion:330 Resp: 915099
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 32.5 26.2 39.4



#15
 2-Fluorobiphenyl
 Concen: 71.268 ng
 RT: 12.82 min Scan# 1186
 Delta R.T. 0.01 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

Tgt Ion:172 Resp: 3138464
 Ion Ratio Lower Upper
 172 100
 171 33.4 28.9 43.3
 170 21.5 19.7 29.5





#16

Acenaphthylene

Concen: 76.392 ng

RT: 13.91 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

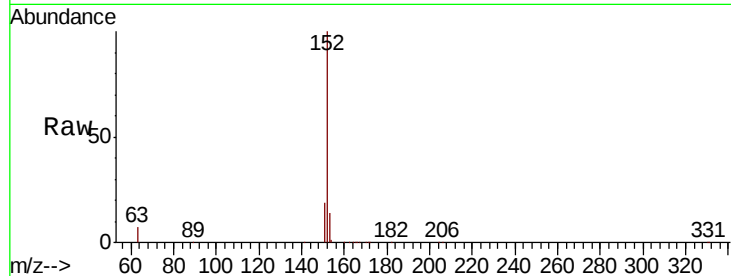
Tot Ion:152 Resp: 4187306

Ion Ratio Lower Upper

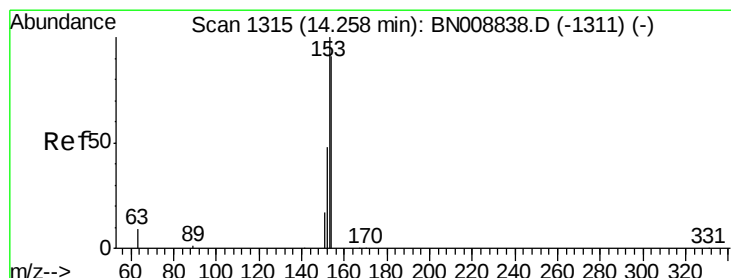
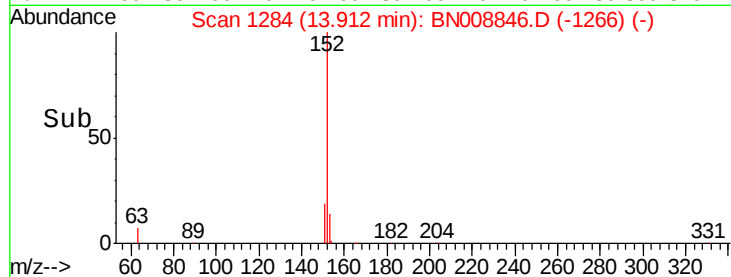
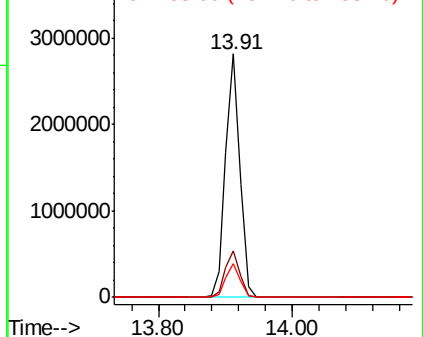
152 100

151 19.4 15.4 23.2

153 13.6 10.4 15.6



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: 84.124 ng

RT: 14.26 min Scan# 1315

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

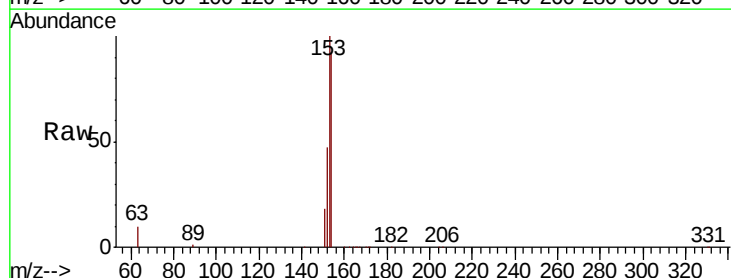
Tgt Ion:154 Resp: 2925509

Ion Ratio Lower Upper

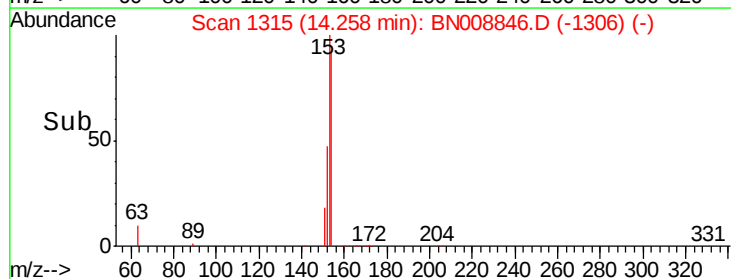
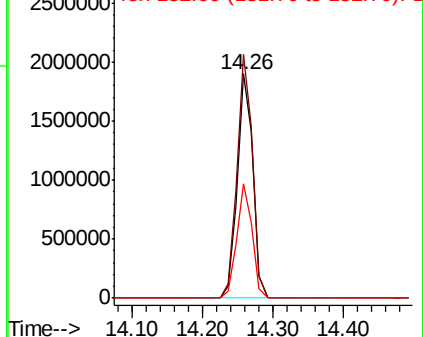
154 100

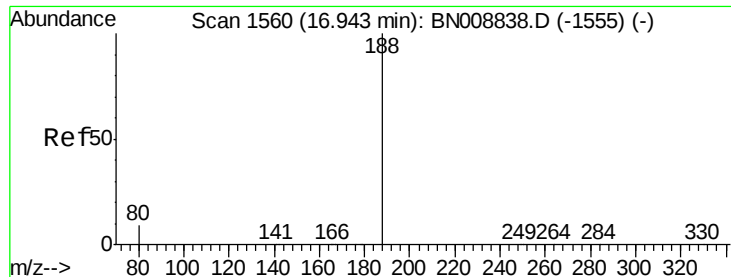
153 108.2 89.4 134.2

152 50.2 43.8 65.8



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.94 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

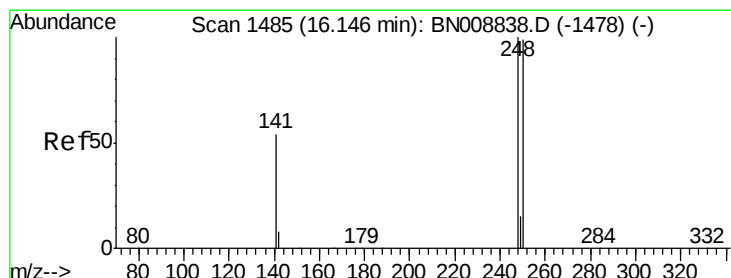
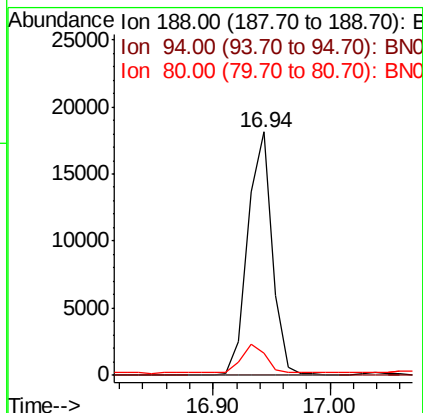
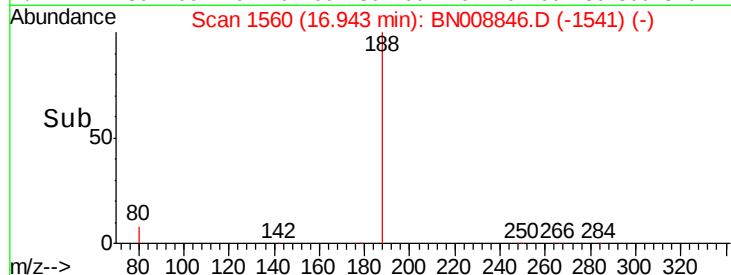
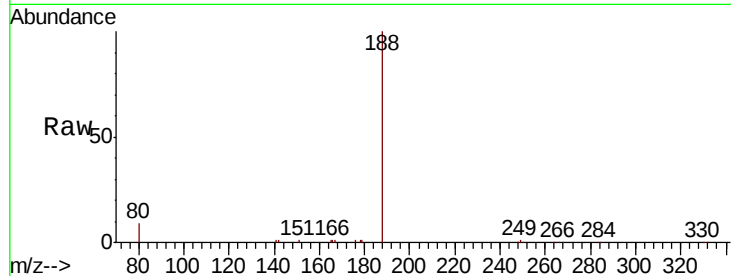
Tot Ion:188 Resp: 26101

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 7.4 11.2



#20

4-Bromophenyl-phenylether

Concen: 117.151 ng

RT: 16.15 min Scan# 1485

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

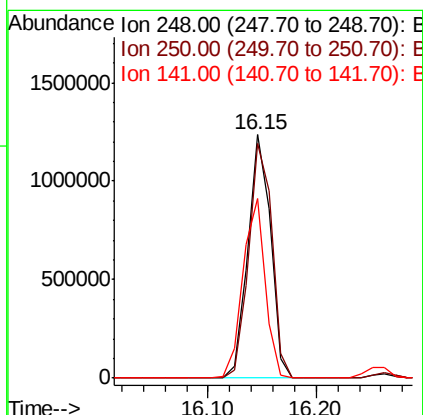
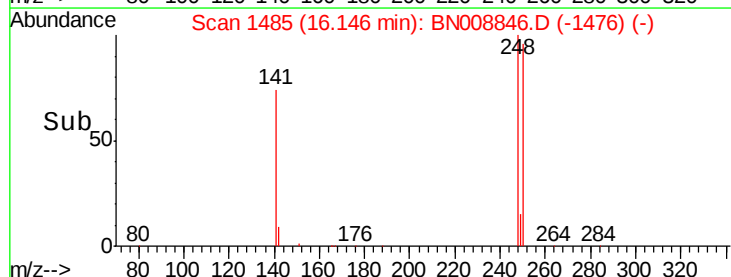
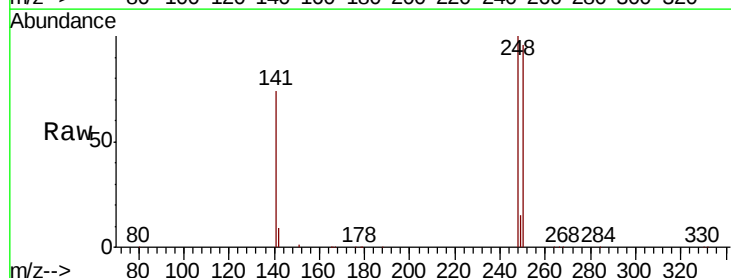
Tgt Ion:248 Resp: 1790347

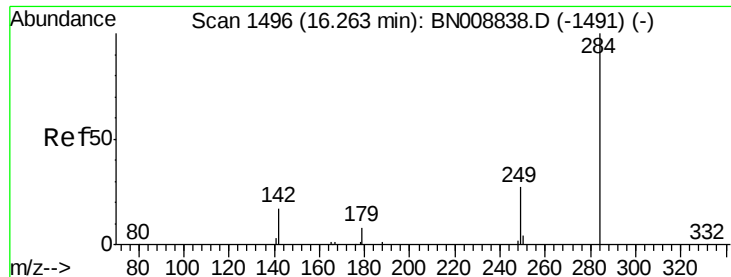
Ion Ratio Lower Upper

248 100

250 96.4 79.7 119.5

141 73.6 44.7 67.1#





#21

Hexachlorobenzene

Concen: 94.370 ng

RT: 16.26 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

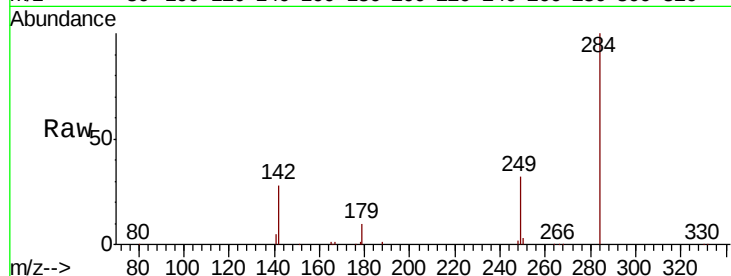
Tot Ion:284 Resp: 1663832

Ion Ratio Lower Upper

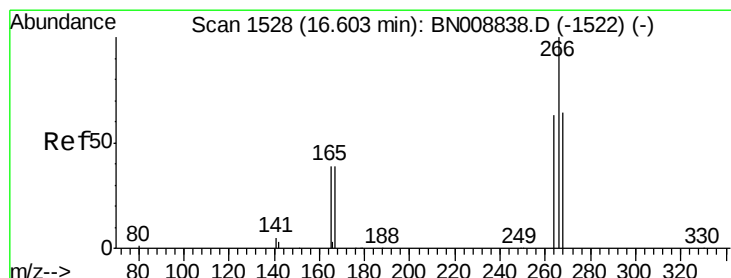
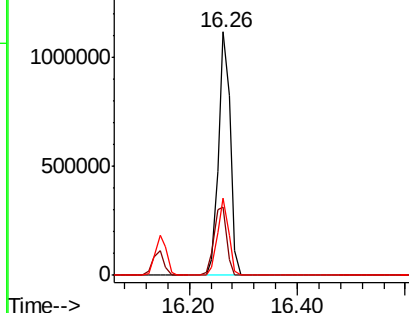
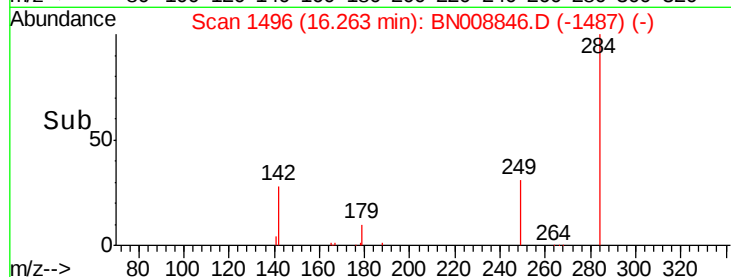
284 100

142 31.0 25.4 38.0

249 30.5 24.3 36.5



Abundance Ion 283.80 (283.50 to 284.50): E
1500000 Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.052 ng

RT: 16.60 min Scan# 1528

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

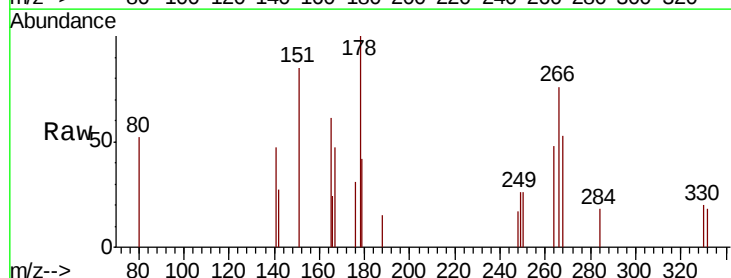
Tgt Ion:266 Resp: 367

Ion Ratio Lower Upper

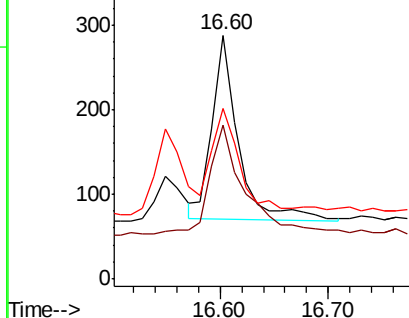
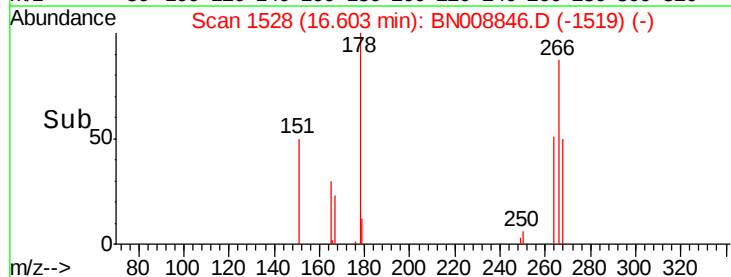
266 100

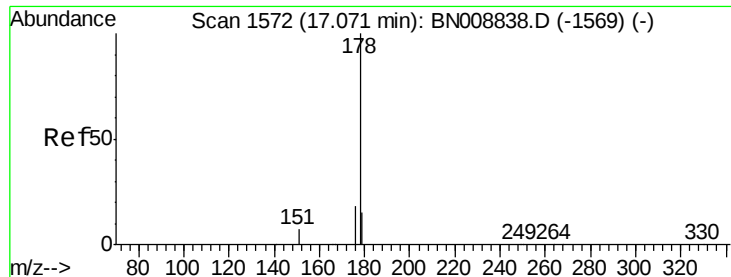
264 63.2 51.0 76.4

268 70.1 53.7 80.5



Abundance Ion 266.00 (265.70 to 266.70): E
400 Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E

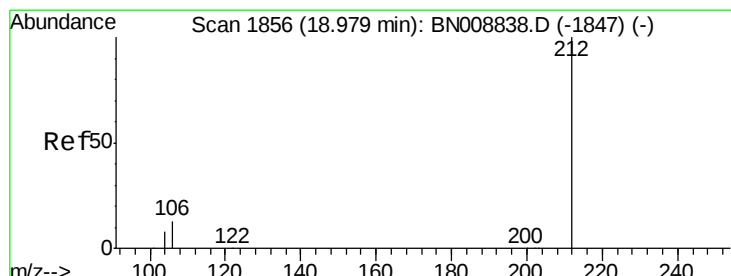
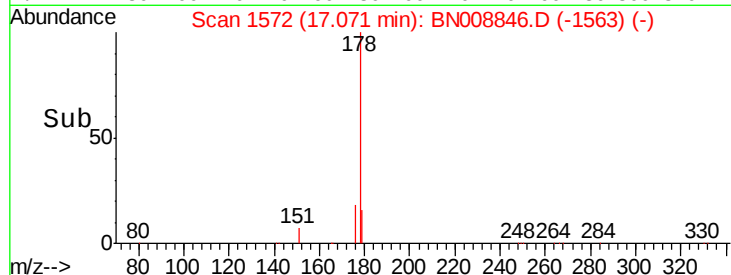
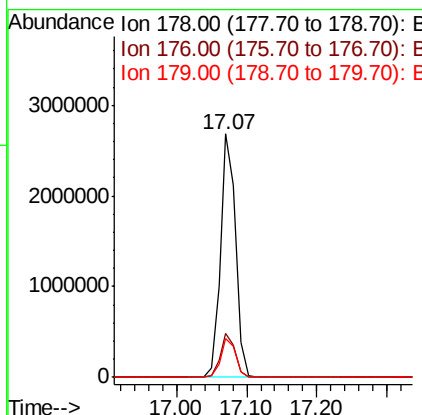
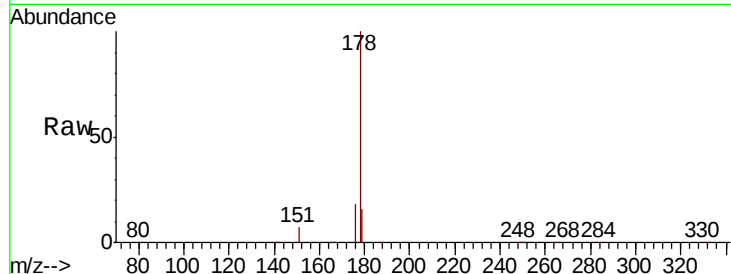




#24
 Anthracene
 Concen: 55.295 ng
 RT: 17.07 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

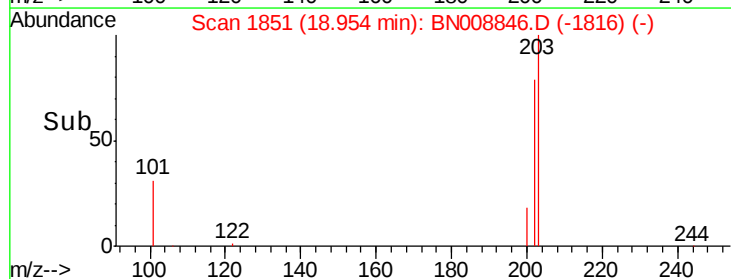
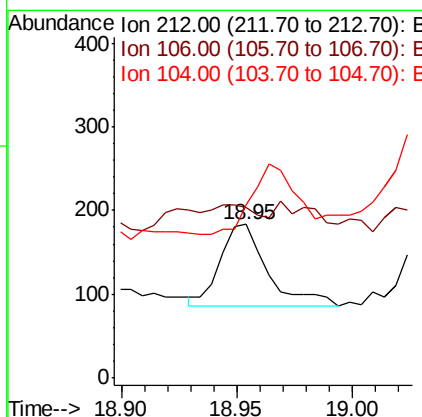
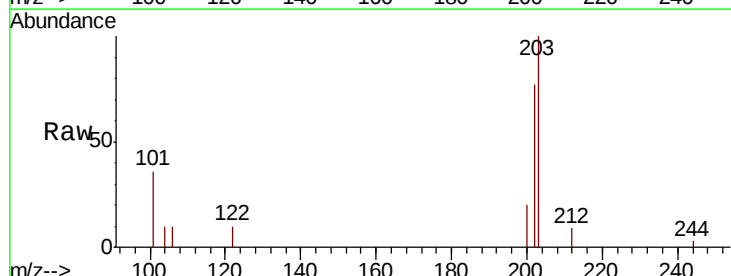
Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

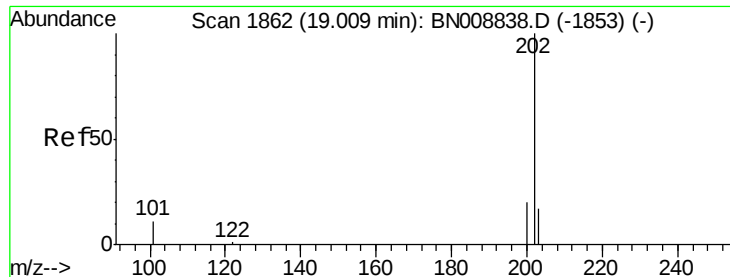
Tot Ion:178 Resp: 4045121
 Ion Ratio Lower Upper
 178 100
 176 17.8 14.3 21.5
 179 15.8 12.2 18.2



#25
 Fluoranthene-d10
 Concen: 0.002 ng
 RT: 18.95 min Scan# 1851
 Delta R.T. -0.02 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

Tgt Ion:212 Resp: 137
 Ion Ratio Lower Upper
 212 100
 106 17.5 10.7 16.1#
 104 87.6 6.1 9.1#

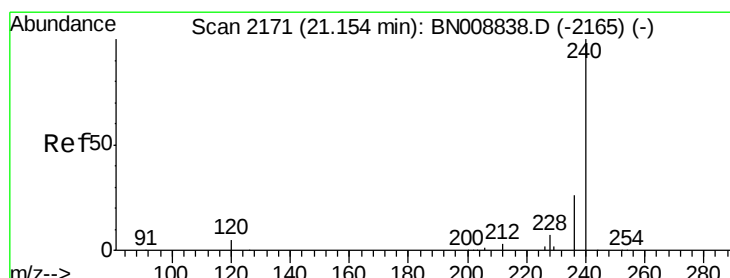
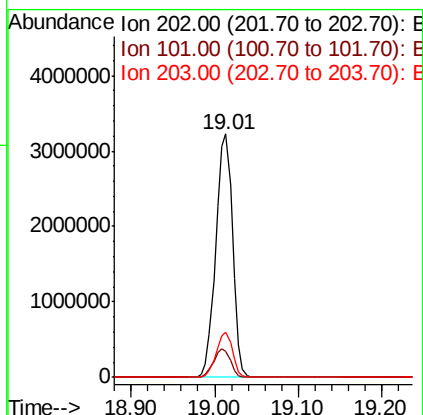
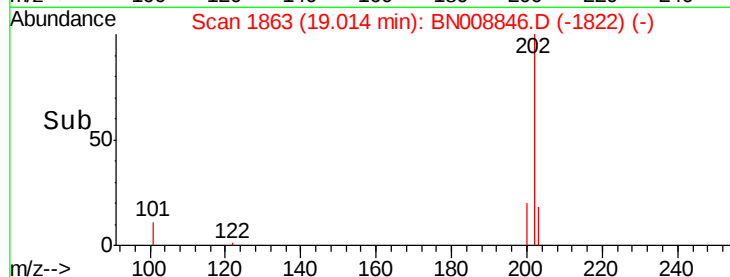
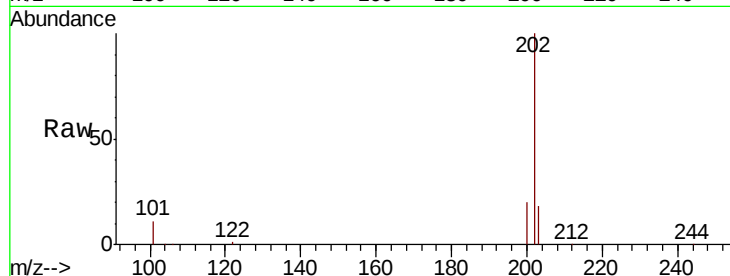




#26
Fluoranthene
Concen: 46.868 ng
RT: 19.01 min Scan# 1863
Delta R.T. 0.00 min
Lab File: BN008846.D
Acq: 05 Dec 2019 11:32

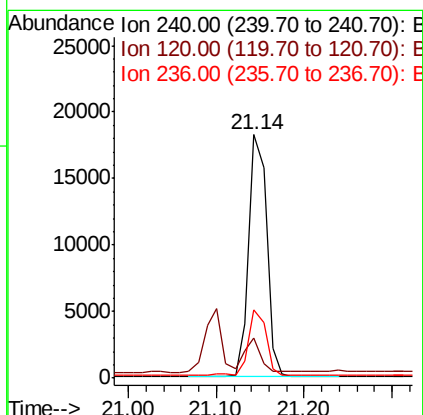
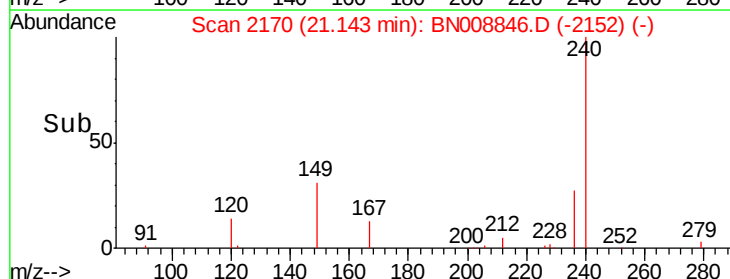
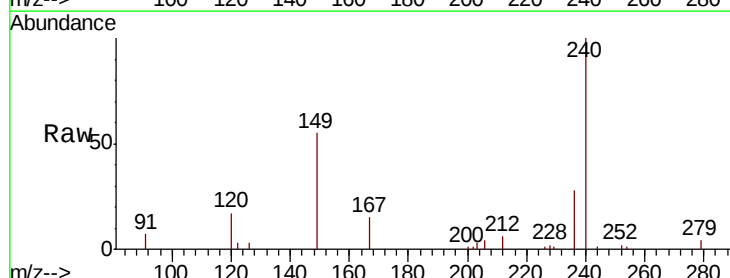
Instrument :
BNA_N
ClientSampleId :
PT-BNA-SOIL

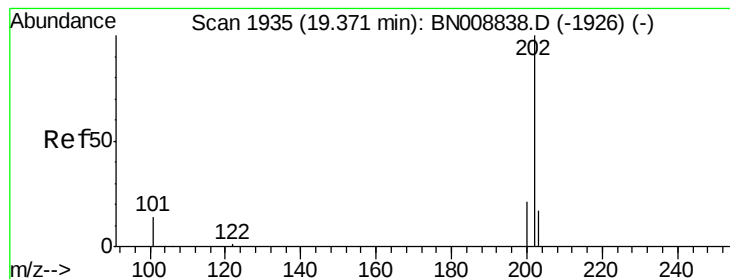
Tot Ion:202 Resp: 4496733
Ion Ratio Lower Upper
202 100
101 11.6 9.3 13.9
203 18.0 13.7 20.5



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.14 min Scan# 2170
Delta R.T. -0.01 min
Lab File: BN008846.D
Acq: 05 Dec 2019 11:32

Tgt Ion:240 Resp: 25837
Ion Ratio Lower Upper
240 100
120 16.7 6.0 9.0#
236 27.9 21.4 32.0





#28

Pvrene

Concen: 126.457 ng

RT: 19.39 min Scan# 1938

Delta R.T. 0.01 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

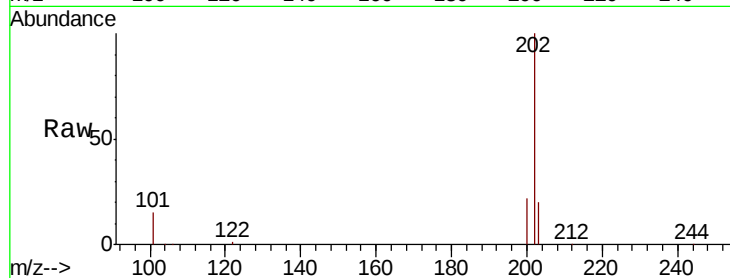
Tot Ion:202 Resp:11399666

Ion Ratio Lower Upper

202 100

200 21.5 16.2 24.2

203 19.1 14.2 21.2

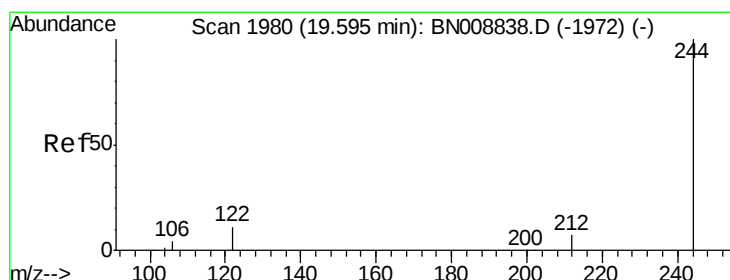
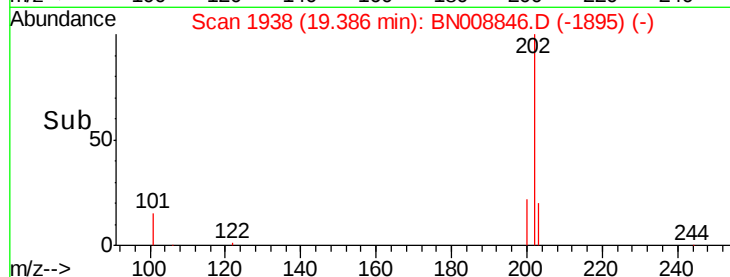
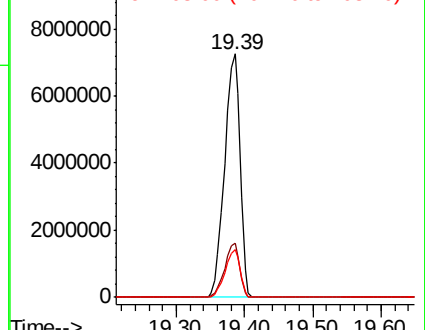


Abundance

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: 73.294 ng

RT: 19.59 min Scan# 1980

Delta R.T. -0.00 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

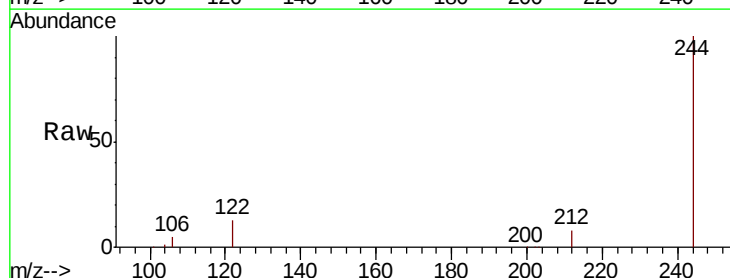
Tgt Ion:244 Resp: 4360556

Ion Ratio Lower Upper

244 100

212 8.1 6.1 9.1

122 13.4 8.9 13.3#

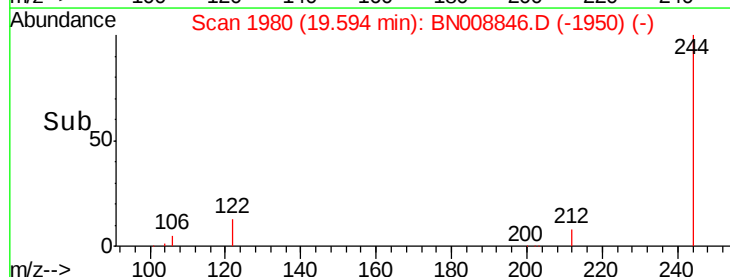
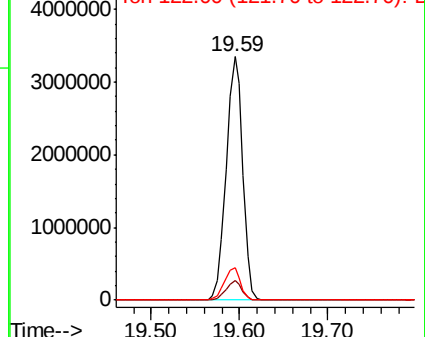


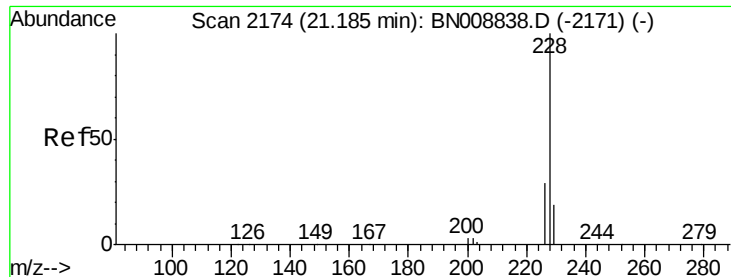
Abundance

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

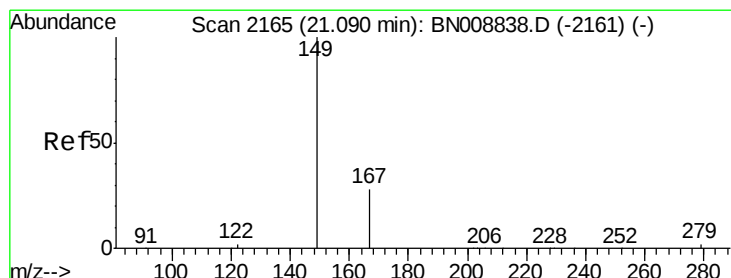
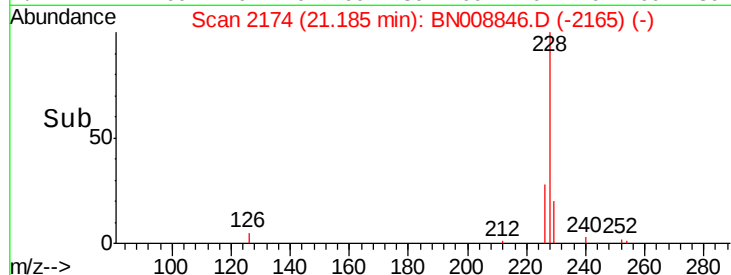
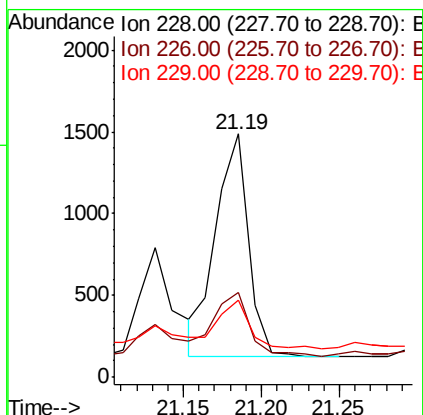
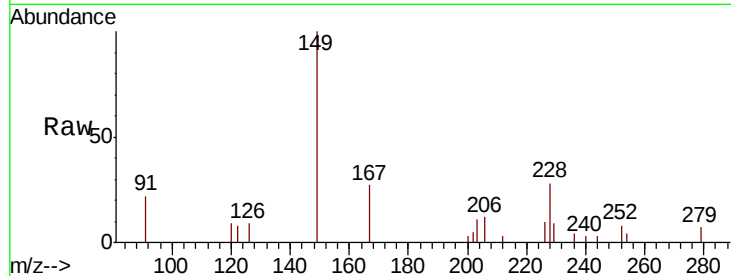




#31
 Chrysene
 Concen: 0.022 ng
 RT: 21.19 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

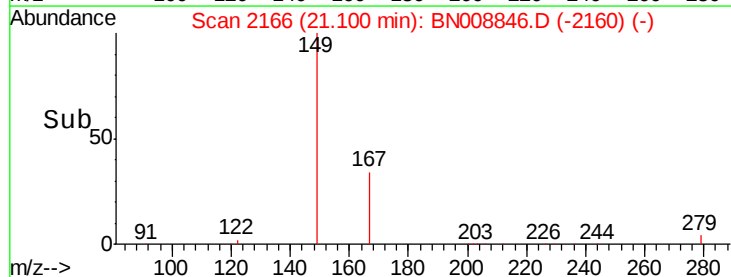
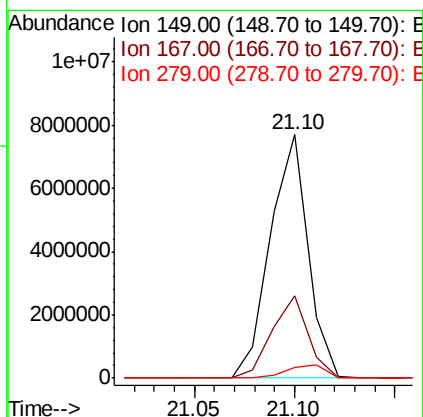
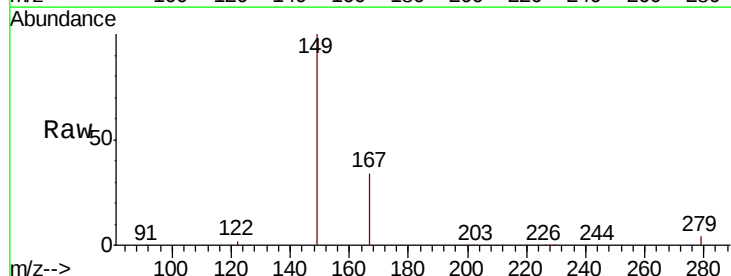
Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

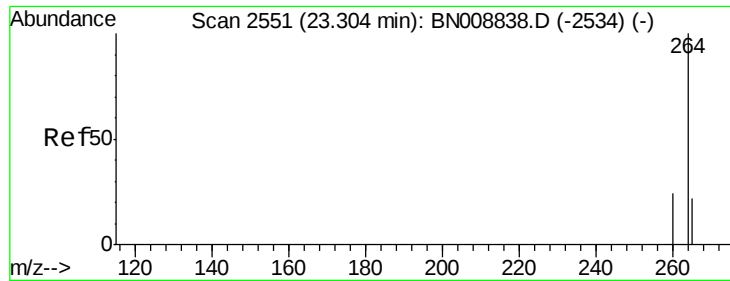
Tot Ion:228 Resp: 1991
 Ion Ratio Lower Upper
 228 100
 226 35.1 23.1 34.7#
 229 31.9 15.8 23.8#



#32
 Bis(2-ethylhexyl)phthalate
 Concen: 163.307 ng
 RT: 21.10 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: BN008846.D
 Acq: 05 Dec 2019 11:32

Tgt Ion:149 Resp:10166119
 Ion Ratio Lower Upper
 149 100
 167 32.6 23.1 34.7
 279 5.4 3.4 5.2#

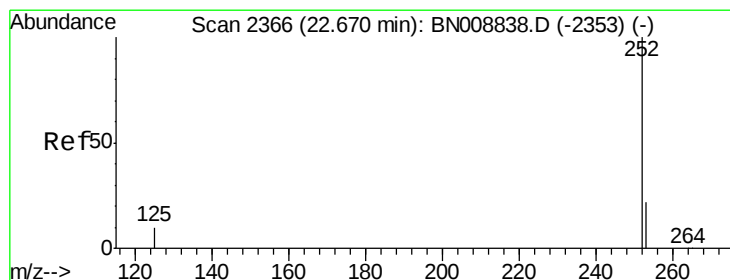
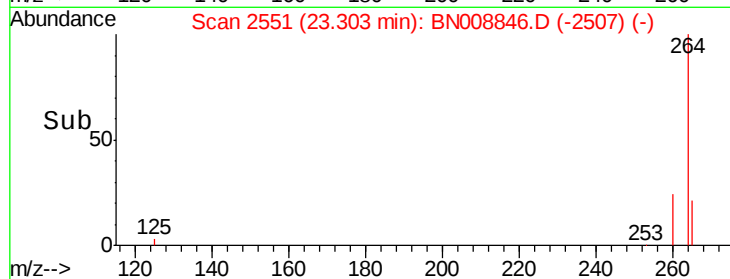
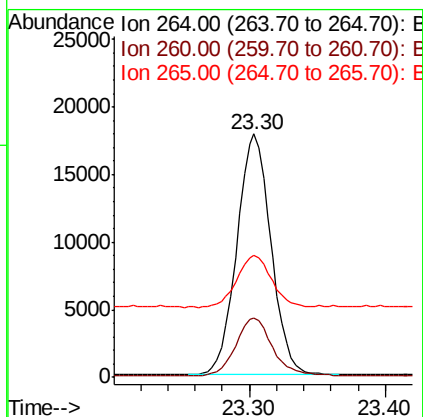
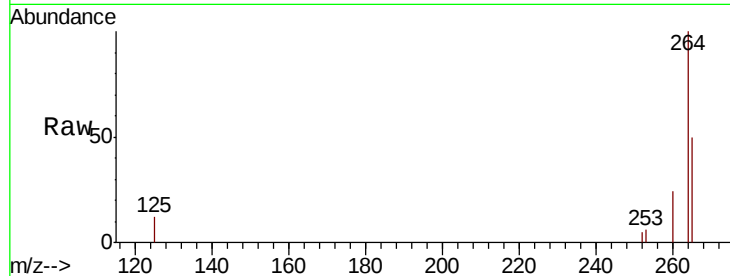




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.30 min Scan# 2551
Delta R.T. -0.00 min
Lab File: BN008846.D
Acq: 05 Dec 2019 11:32

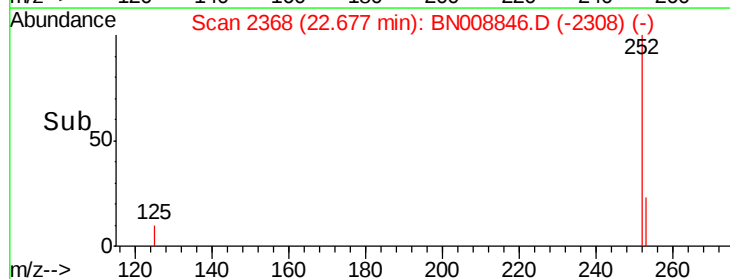
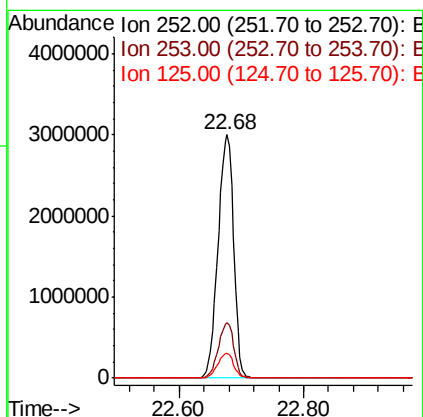
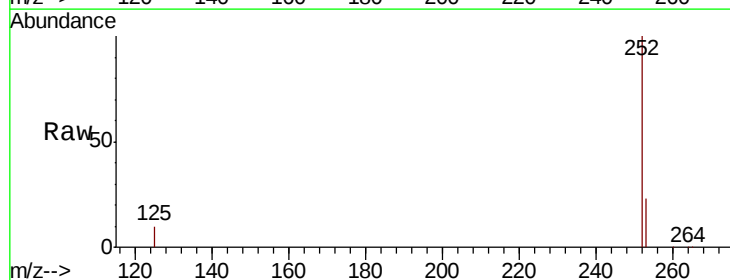
Instrument :
BNA_N
ClientSampleId :
PT-BNA-SOIL

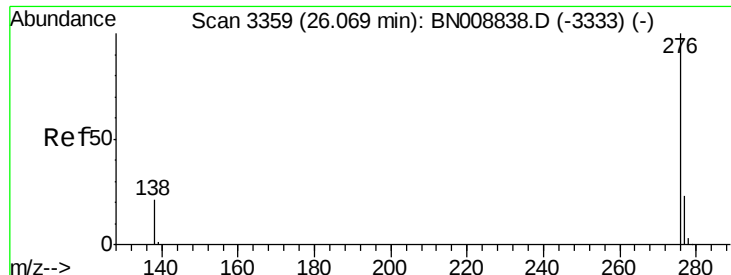
Tot Ion:264 Resp: 30642
Ion Ratio Lower Upper
264 100
260 24.2 19.9 29.9
265 50.2 46.8 70.2



#35
Benzo(b)fluoranthene
Concen: 51.119 ng
RT: 22.68 min Scan# 2368
Delta R.T. 0.01 min
Lab File: BN008846.D
Acq: 05 Dec 2019 11:32

Tgt Ion:252 Resp: 5202752
Ion Ratio Lower Upper
252 100
253 22.9 20.6 31.0
125 10.3 12.3 18.5#





#39

Benzo(a,h,i)perylene

Concen: 67.862 ng

RT: 26.10 min Scan# 3368

Delta R.T. 0.03 min

Lab File: BN008846.D

Acq: 05 Dec 2019 11:32

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

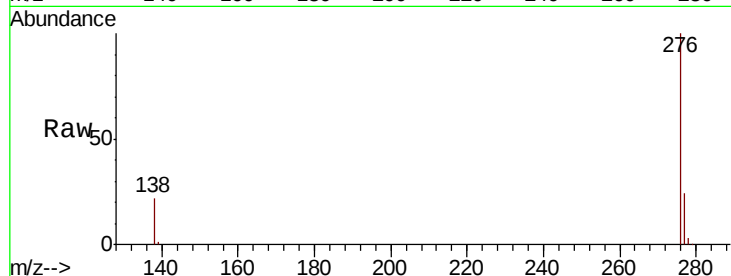
Tot Ion:276 Resp: 6735593

Ion Ratio Lower Upper

276 100

277 24.0 20.1 30.1

138 21.7 18.6 27.8



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

