

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
 Data File : BF121637.D
 Acq On : 21 Sep 2020 20:40
 Operator : JU/CG
 Sample : L4091-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CARLSTADT-TOPSOIL-2020

Quant Time: Sep 22 01:07:47 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 21 14:19:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	140387	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	553384	20.00	ng	0.00
39) Acenaphthene-d10	9.86	164	286613	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	515574	20.00	ng	0.00
76) Chrysene-d12	13.99	240	350304	20.00	ng	0.00
86) Perylene-d12	15.46	264	345027	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	805376	85.26	ng	0.00
7) Phenol-d6	6.45	99	1036831	83.66	ng	-0.01
23) Nitrobenzene-d5	7.38	82	701515	68.06	ng	0.00
42) 2,4,6-Tribromophenol	10.65	330	291696	81.89	ng	0.00
45) 2-Fluorobiphenyl	9.18	172	1250490	66.08	ng	0.00
79) Terphenyl-d14	12.94	244	1131114	65.42	ng	0.00

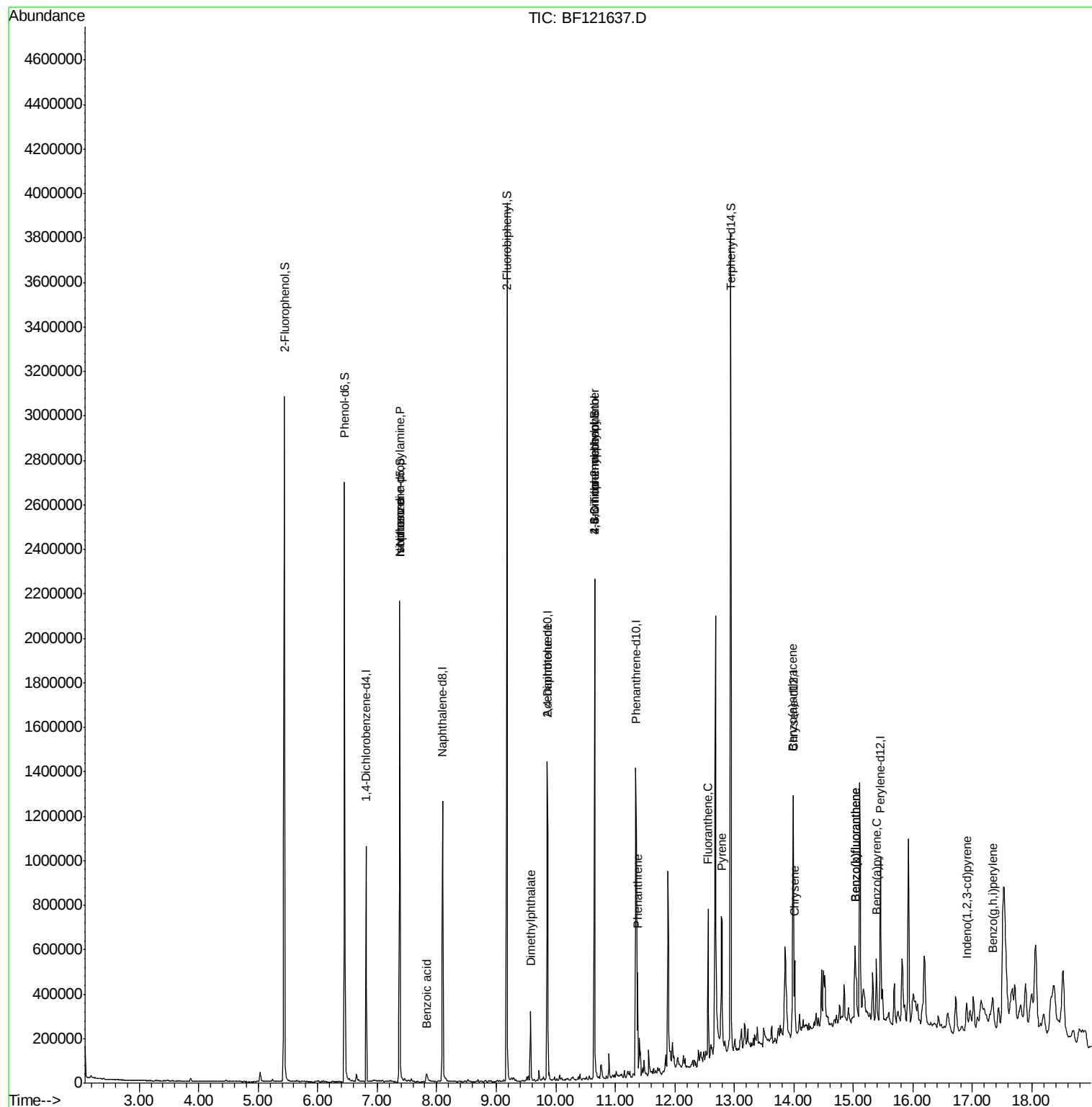
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.38	70	94838	13.278	ng	# 79
25) Isophorone	7.38	82	698310	33.658	ng	# 67
32) Benzoic acid	7.83	122	12893	8.532	ng	95
50) Dimethylphthalate	9.57	163	121592	5.853	ng	99
57) 2,4-Dinitrotoluene	9.86	165	36857	6.622	ng	# 23
65) 4,6-Dinitro-2-methylphenol	10.65	198	454	6.975	ng	# 1
67) 4-Bromophenyl-phenylether	10.65	248	16573	2.823	ng	# 1
71) Phenanthrene	11.37	178	131037	4.665	ng	98
75) Fluoranthene	12.56	202	282202	9.411	ng	98
78) Pyrene	12.79	202	252654	9.872	ng	98
81) Benzo(a)anthracene	13.98	228	129909	5.862	ng	97
83) Chrysene	14.02	228	134958	6.014	ng	96
87) Indeno(1,2,3-cd)pyrene	16.90	276	99685	4.437	ng	96
88) Benzo(b)fluoranthene	15.03	252	247172	10.716	ng	97
89) Benzo(k)fluoranthene	15.03	252	247172	11.702	ng	97
90) Benzo(a)pyrene	15.39	252	129201	6.590	ng	97
92) Benzo(g,h,i)perylene	17.34	276	96910	5.271	ng	100

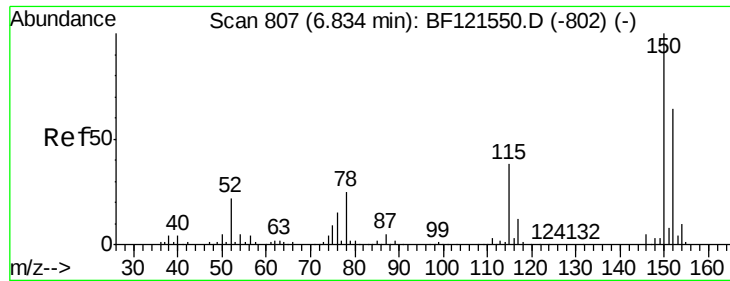
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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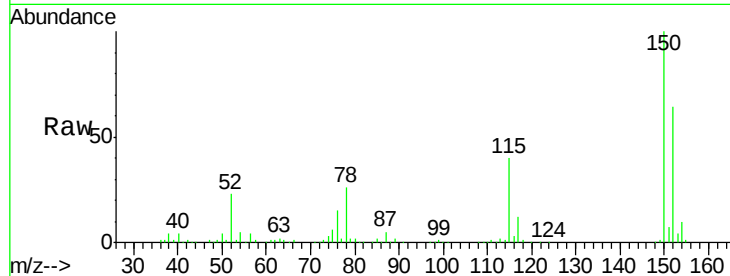


#1

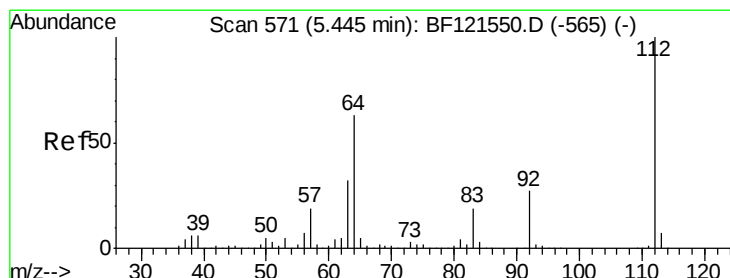
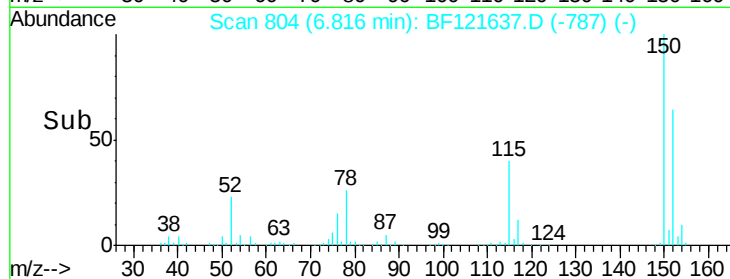
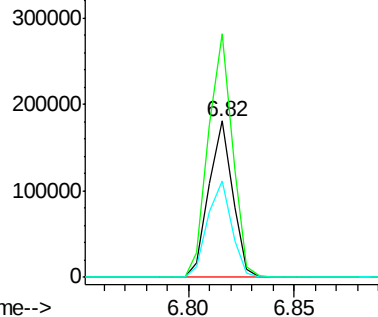
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Instrument :
BNA_F
ClientSampleId :
CARLSTADT-TOPSOIL-2020

Tot Ion:152 Resp: 140387
Ion Ratio Lower Upper
152 100
150 155.8 128.1 192.1
115 62.0 52.6 79.0



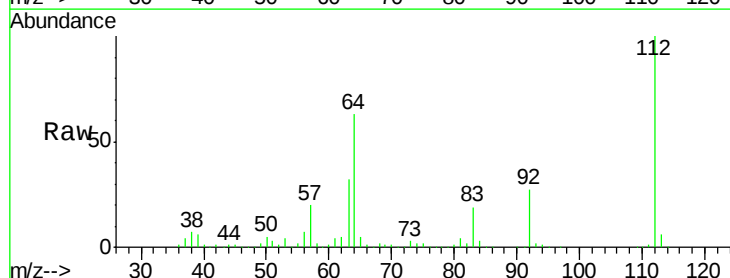
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



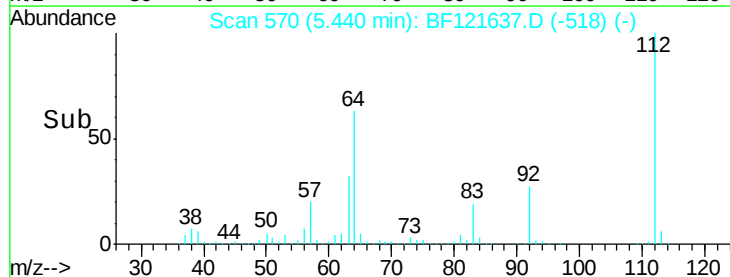
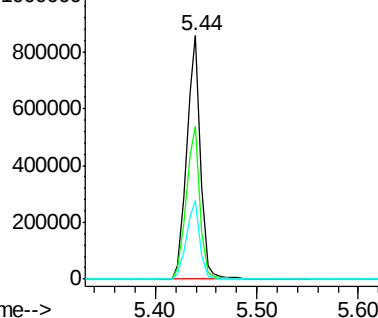
#5

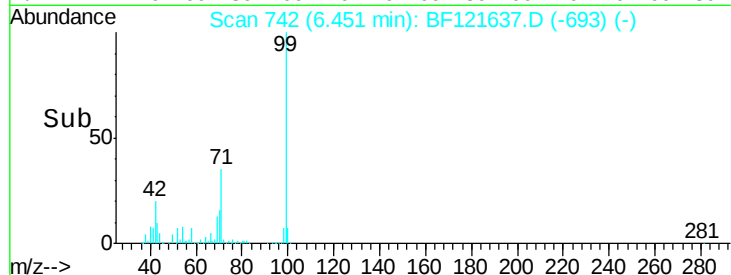
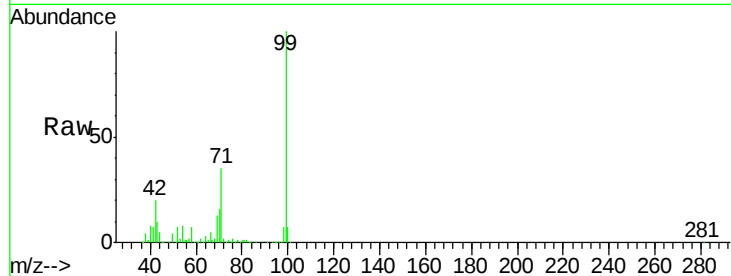
2-Fluorophenol
Concen: 85.256 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion:112 Resp: 805376
Ion Ratio Lower Upper
112 100
64 62.6 52.2 78.2
63 32.1 26.6 39.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 83.661 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

Instrument :

BNA_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

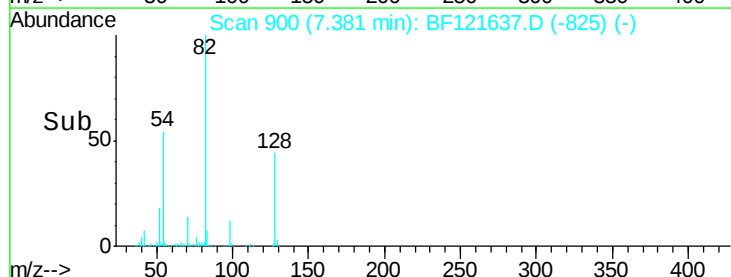
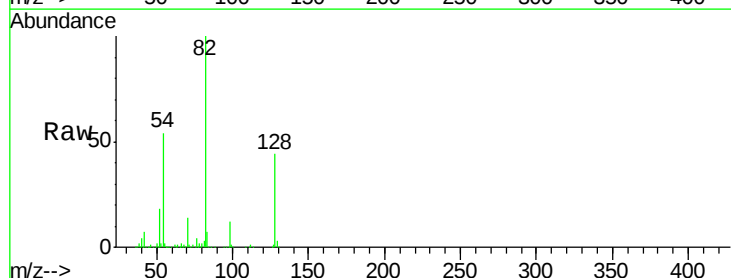
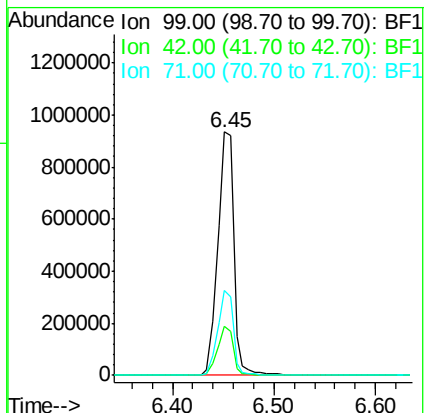
Tot Ion: 99 Resp: 1036831

Ion Ratio Lower Upper

99 100

42 20.2 15.5 23.3

71 34.8 27.4 41.2



#19

n-Nitroso-di-n-propylamine

Concen: 13.278 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.14 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

Tgt Ion: 70 Resp: 94838

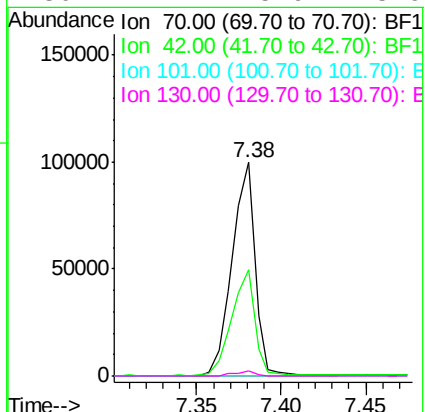
Ion Ratio Lower Upper

70 100

42 49.5 48.3 72.5

101 0.0 7.6 11.4#

130 2.1 15.9 23.9#

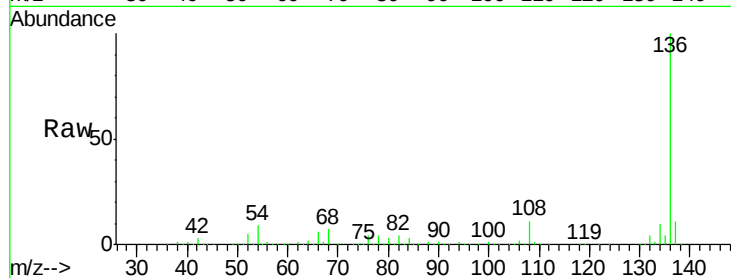




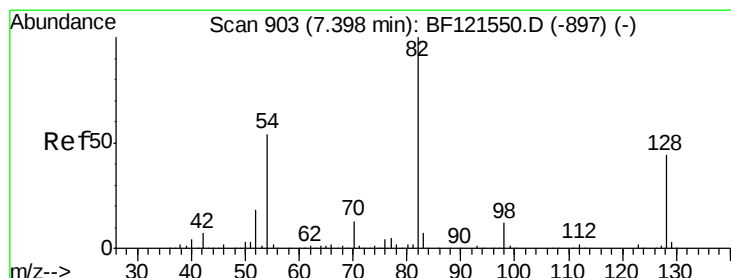
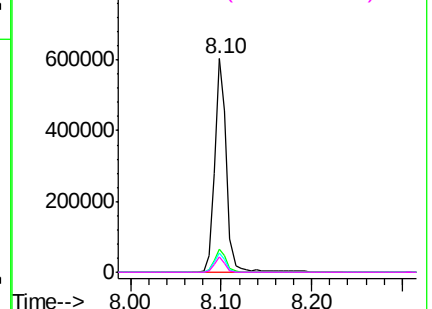
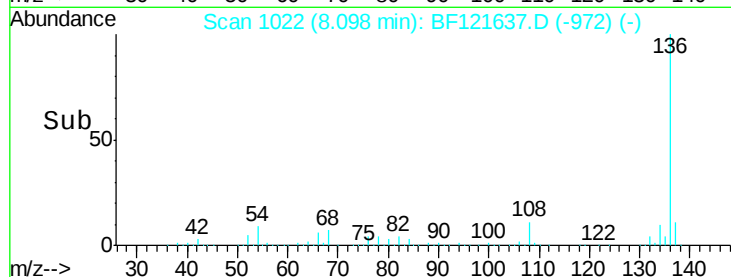
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Instrument :
BNA_F
ClientSampleId :
CARLSTADT-TOPSOIL-2020

Tot Ion:136	Resp:	553384
Ion Ratio	Lower	Upper
136	100	
137	11.1	8.9 13.3
54	9.3	7.4 11.0
68	6.9	5.3 7.9

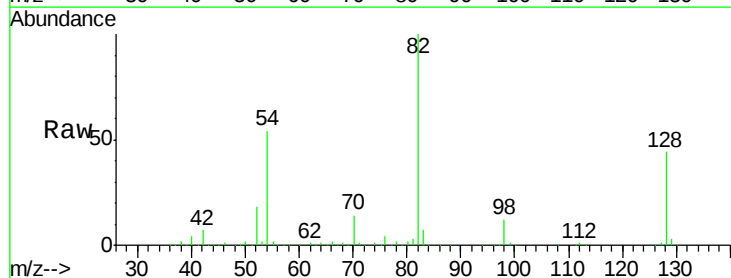


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

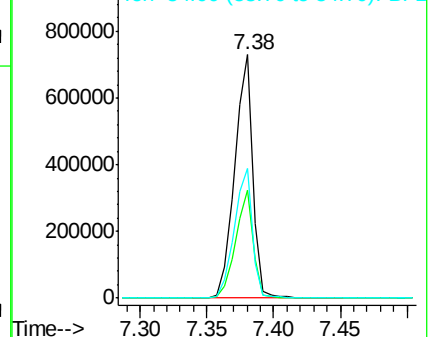
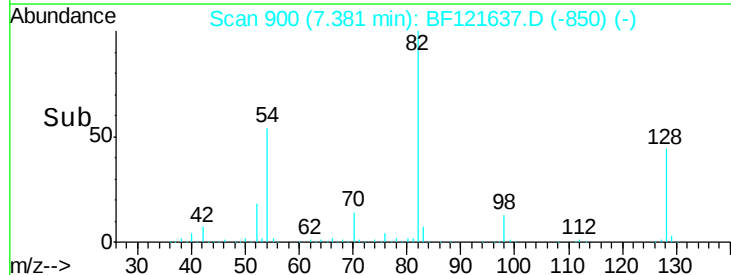


#23
Nitrobenzene-d5
Concen: 68.064 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion: 82	Resp:	701515
Ion Ratio	Lower	Upper
82	100	
128	44.1	33.9 50.9
54	53.5	42.9 64.3



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 33.658 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.26 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

Instrument :

BNA_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

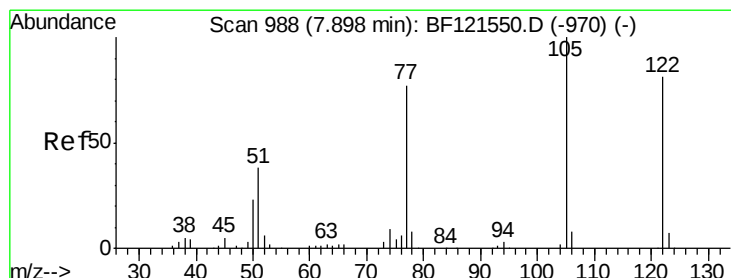
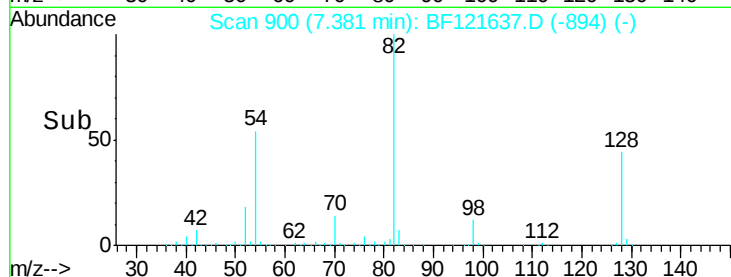
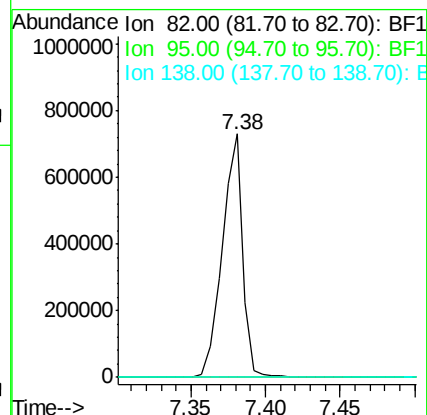
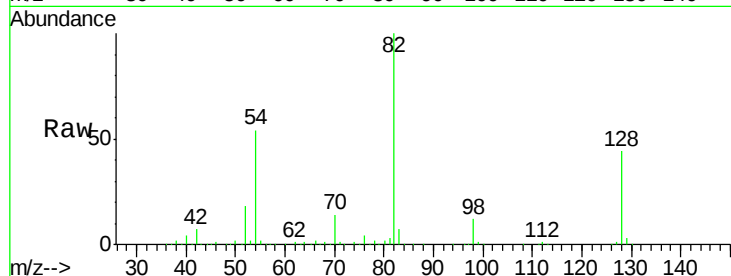
Tot Ion: 82 Resp: 698310

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.2 19.8#



#32

Benzoic acid

Concen: 8.532 ng

RT: 7.83 min Scan# 976

Delta R.T. -0.08 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

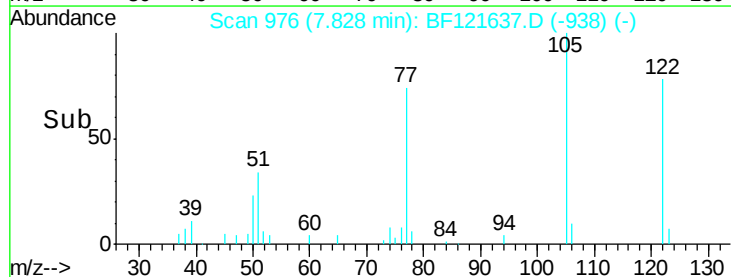
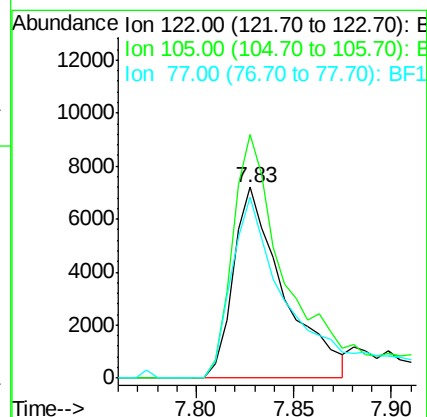
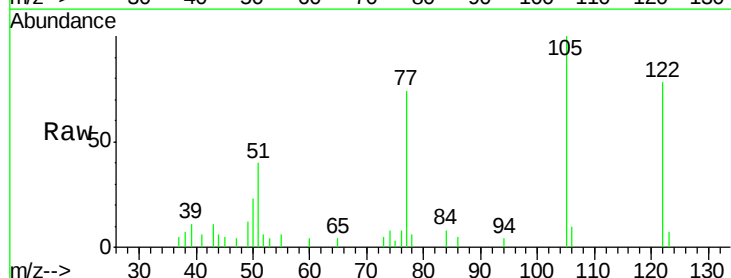
Tgt Ion: 122 Resp: 12893

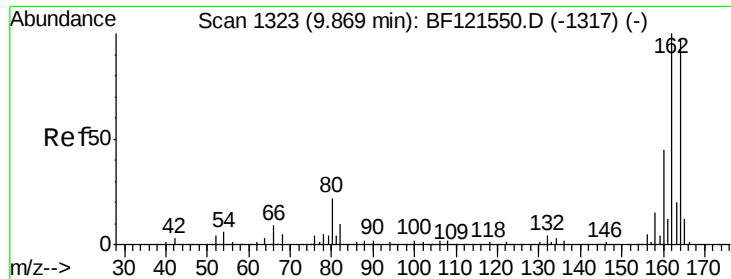
Ion Ratio Lower Upper

122 100

105 127.5 101.9 141.9

77 94.6 69.0 109.0

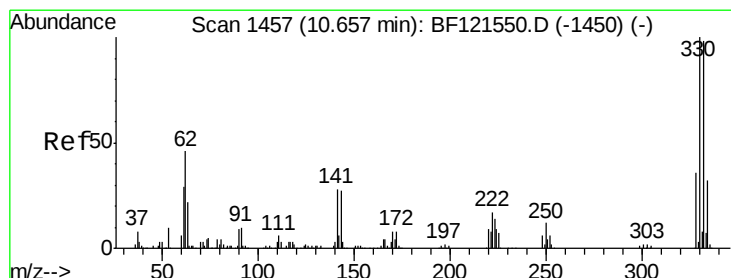
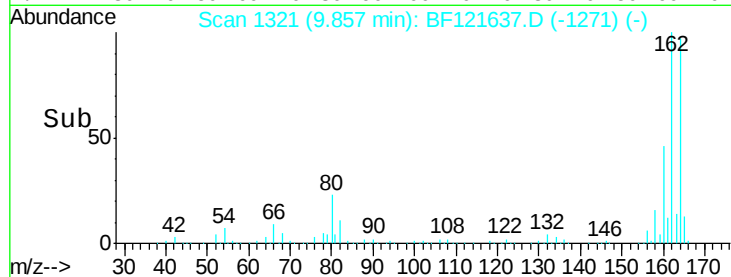
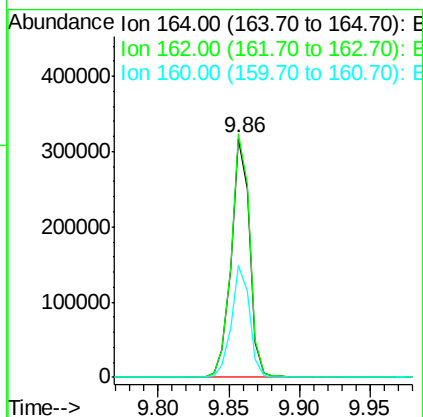
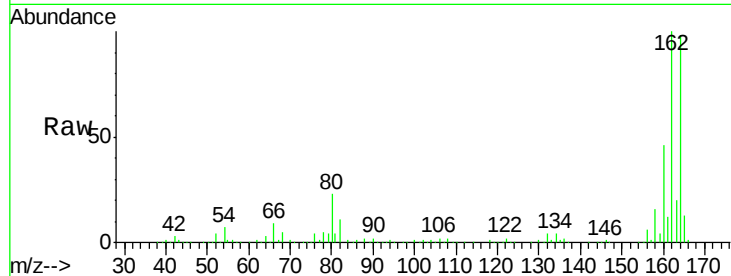




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

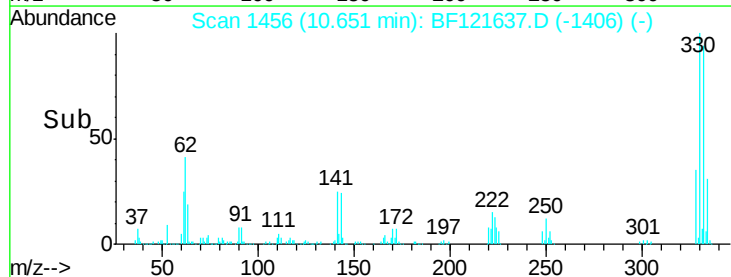
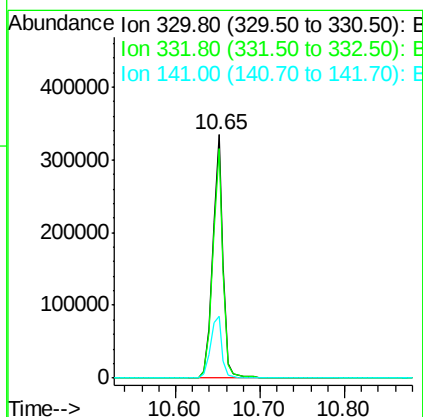
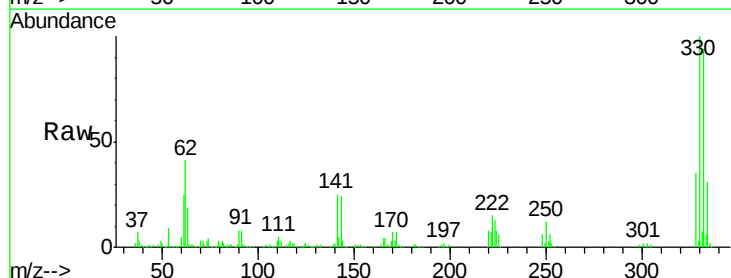
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CARLSTADT-TOPSOIL-2020

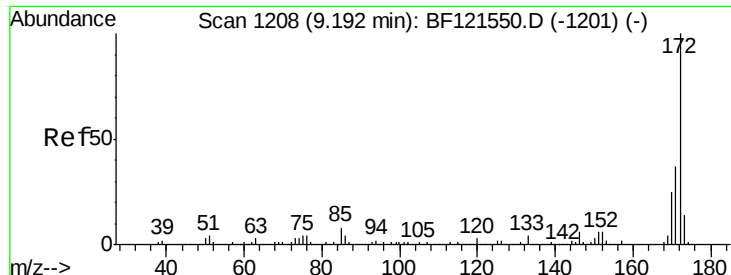
Tot Ion:164 Resp: 286613
Ion Ratio Lower Upper
164 100
162 101.9 81.2 121.8
160 46.6 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 81.886 ng
RT: 10.65 min Scan# 1456
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion:330 Resp: 291696
Ion Ratio Lower Upper
330 100
332 94.2 76.9 115.3
141 28.5 22.4 33.6

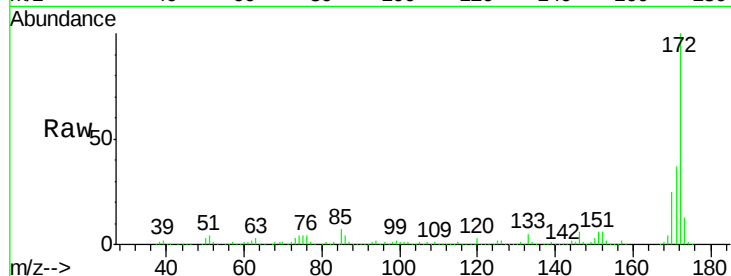




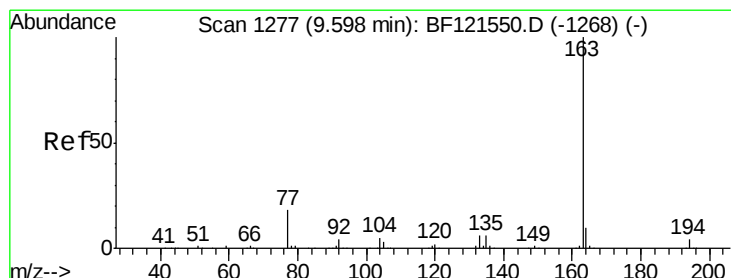
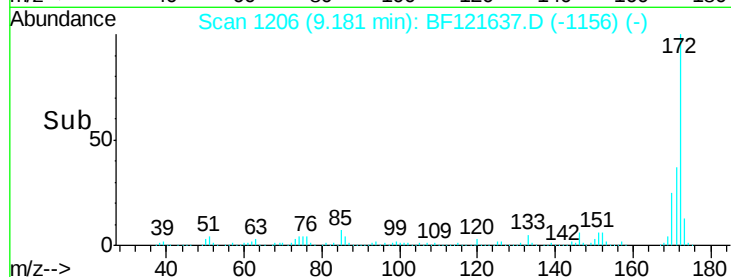
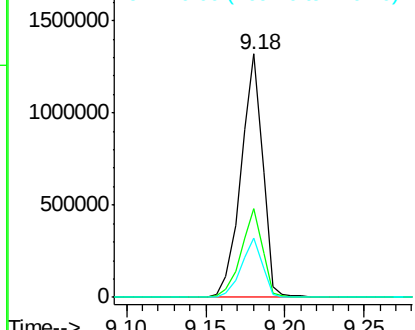
#45
2-Fluorobiphenyl
Concen: 66.079 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Instrument :
BNA_F
ClientSampleId :
CARLSTADT-TOPSOIL-2020

Tot Ion:172 Resp: 1250490
Ion Ratio Lower Upper
172 100
171 36.6 29.3 43.9
170 24.5 19.5 29.3

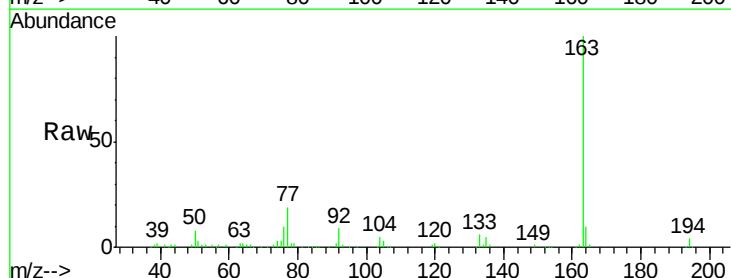


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

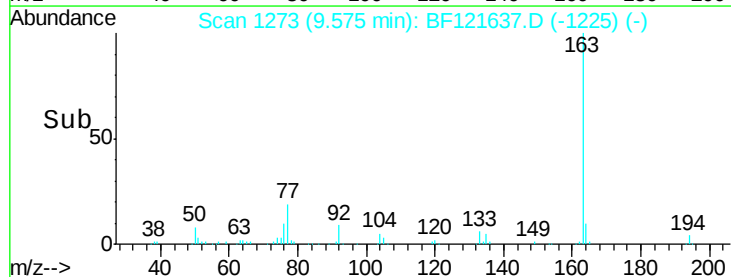
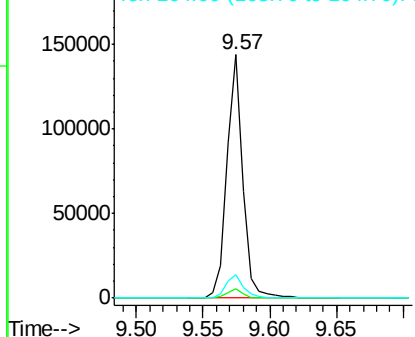


#50
Dimethylphthalate
Concen: 5.853 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.02 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion:163 Resp: 121592
Ion Ratio Lower Upper
163 100
194 3.7 3.3 4.9
164 9.7 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

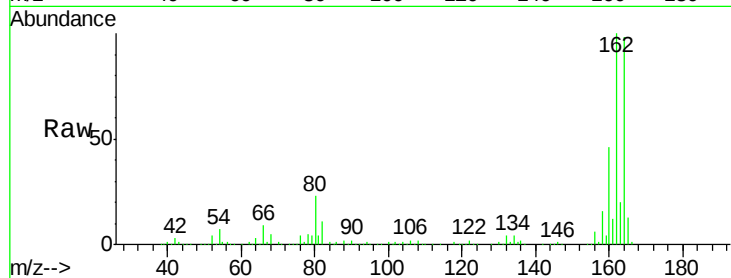




#57
 2,4-Dinitrotoluene
 Concen: 6.622 ng
 RT: 9.86 min Scan# 1321
 Delta R.T. -0.20 min
 Lab File: BF121637.D
 Acq: 21 Sep 2020 20:40

Instrument :
 BNA_F
 ClientSampleId :
 CARLSTADT-TOPSOIL-2020

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	36.7	55.1#
89	1.4	57.7	86.5#
182	0.0	2.1	3.1#

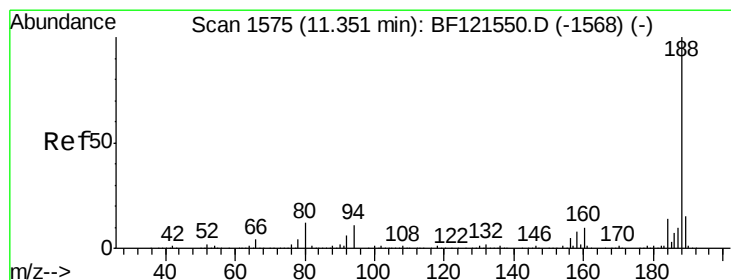
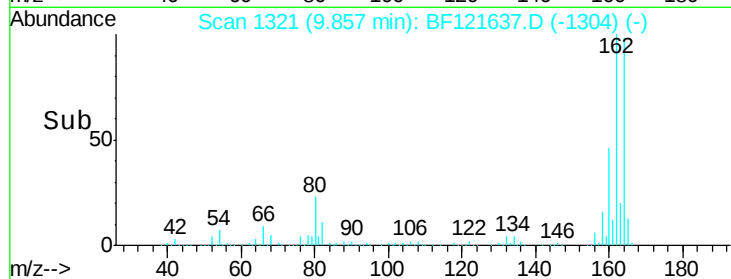
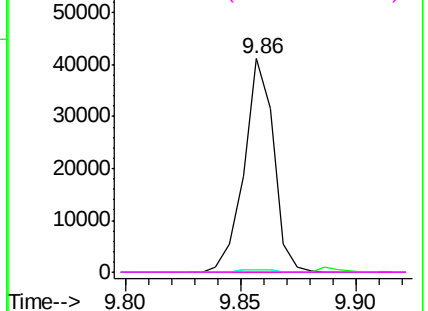


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



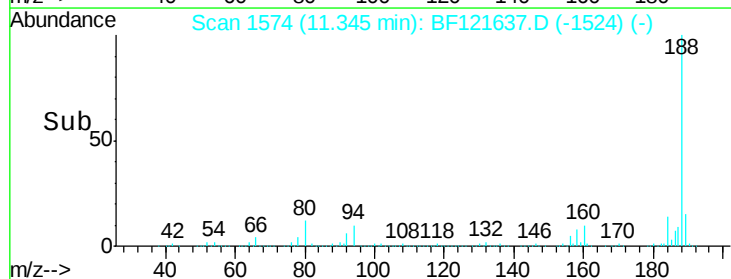
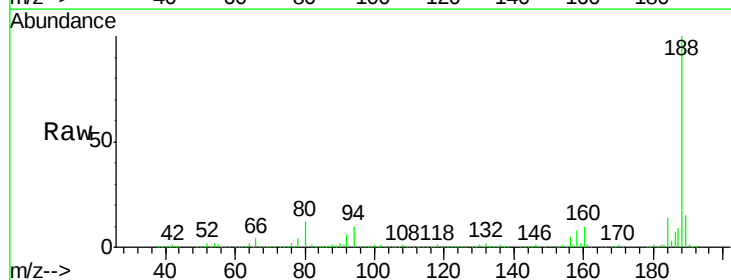
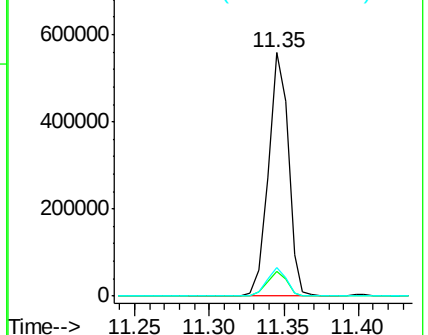
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF121637.D
 Acq: 21 Sep 2020 20:40

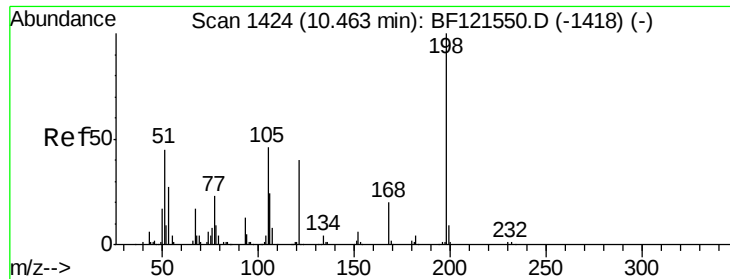
Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.4	12.6
80	11.6	9.0	13.4

Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

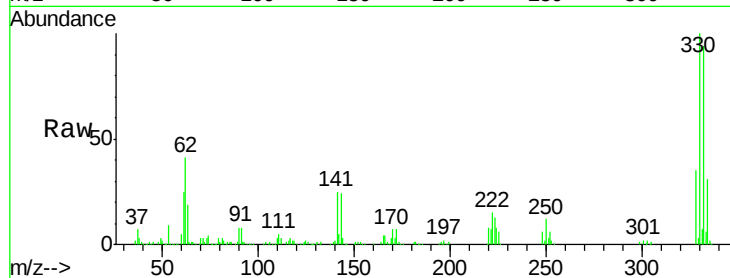




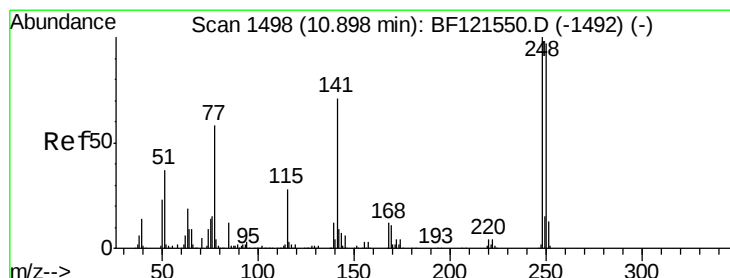
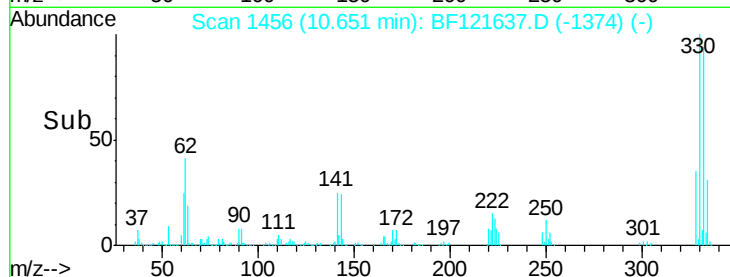
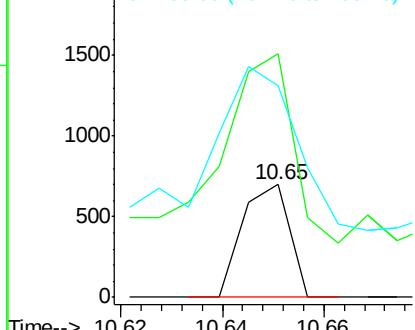
#65
 4,6-Dinitro-2-methylphenol
 Concen: 6.975 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. 0.18 min
 Lab File: BF121637.D
 Acq: 21 Sep 2020 20:40

Instrument :
 BNA_F
 ClientSampleId :
 CARLSTADT-TOPSOIL-2020

Tot Ion:198 Resp: 454
 Ion Ratio Lower Upper
 198 100
 51 215.6 20.3 60.3#
 105 187.1 20.2 60.2#

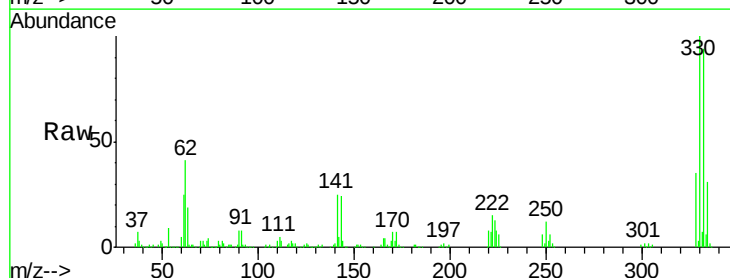


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

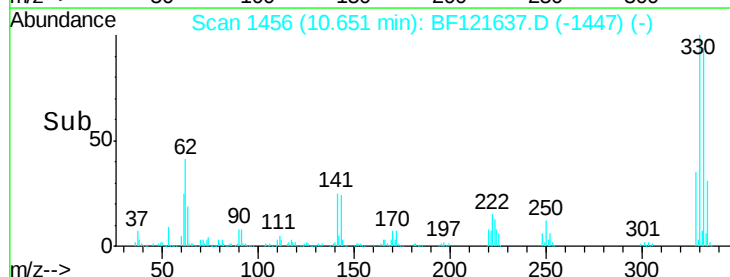
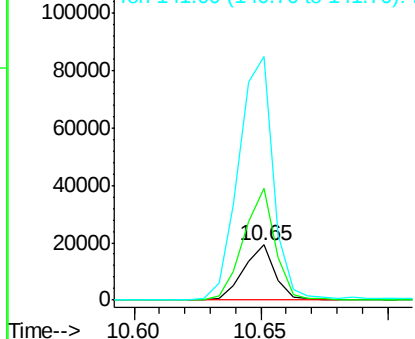


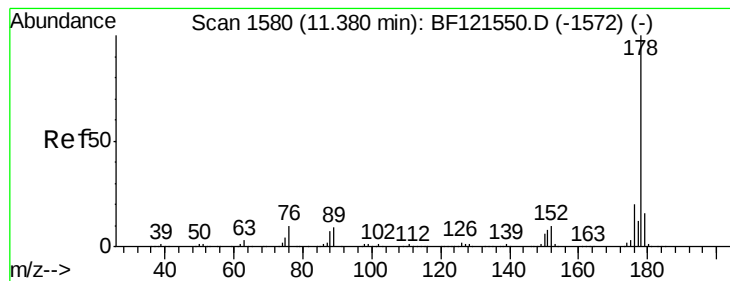
#67
 4-Bromophenyl-phenylether
 Concen: 2.823 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.25 min
 Lab File: BF121637.D
 Acq: 21 Sep 2020 20:40

Tgt Ion:248 Resp: 16573
 Ion Ratio Lower Upper
 248 100
 250 202.0 79.4 119.0#
 141 442.1 52.2 78.4#



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





#71

Phenanthrene

Concen: 4.665 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

Instrument :

BNA_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

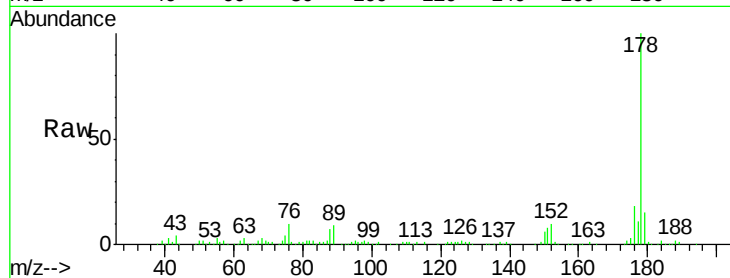
Tot Ion:178 Resp: 131037

Ion Ratio Lower Upper

178 100

176 18.4 15.9 23.9

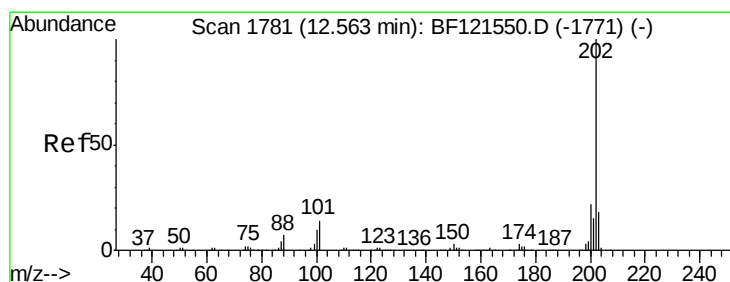
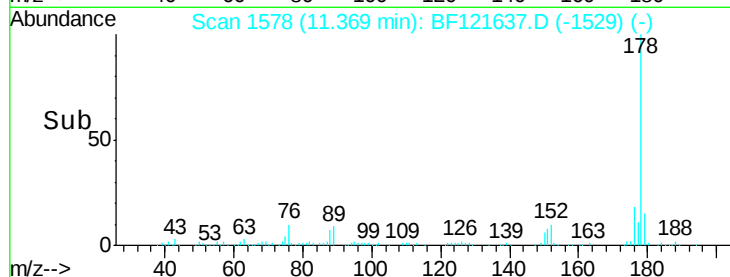
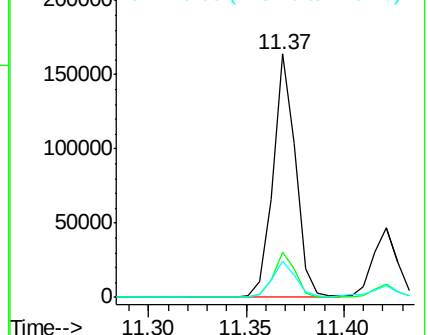
179 15.1 12.6 18.8



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



#75

Fluoranthene

Concen: 9.411 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

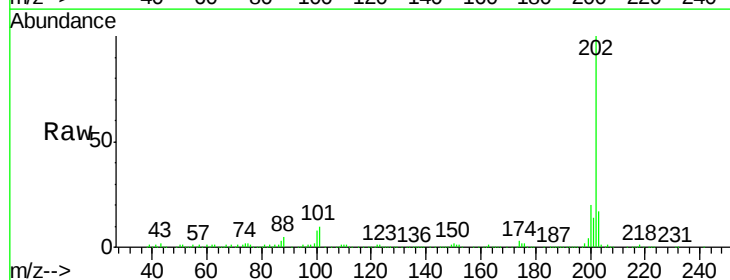
Tgt Ion:202 Resp: 282202

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.9

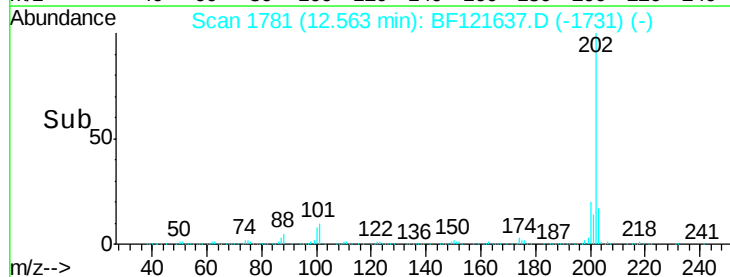
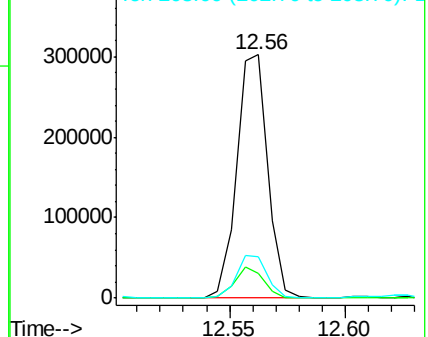
203 17.2 0.0 37.8

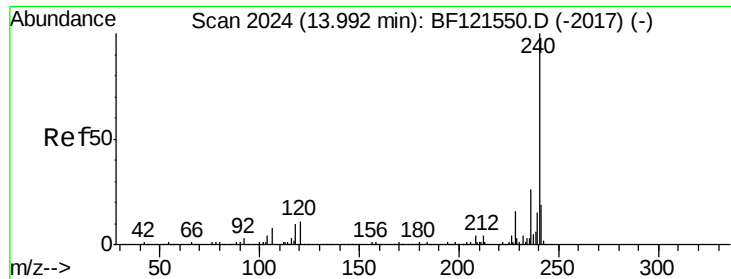


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

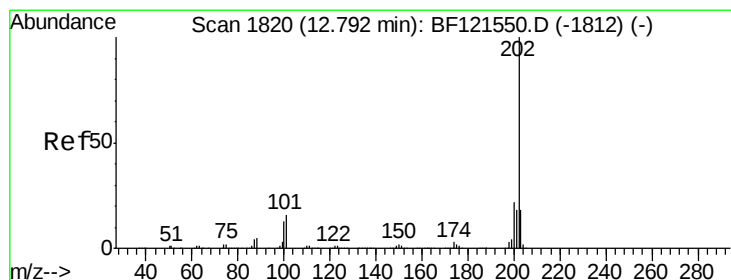
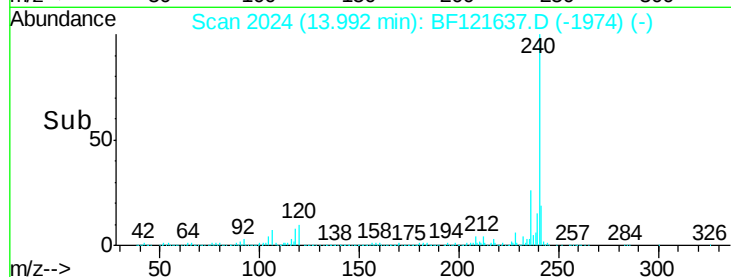
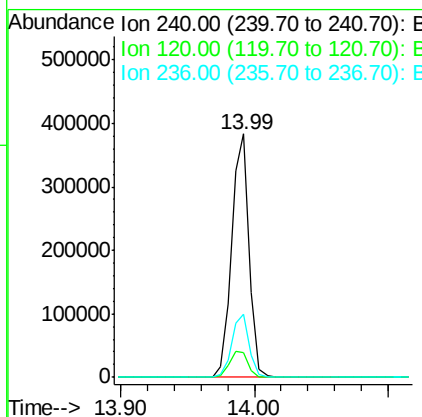
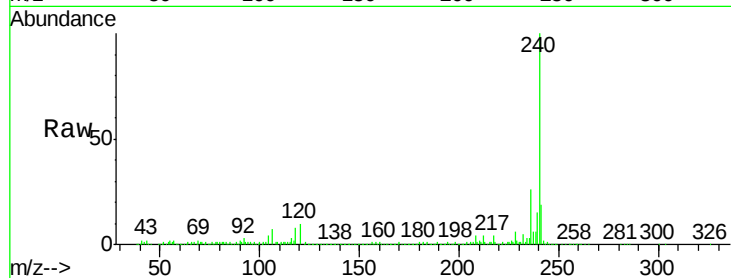




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

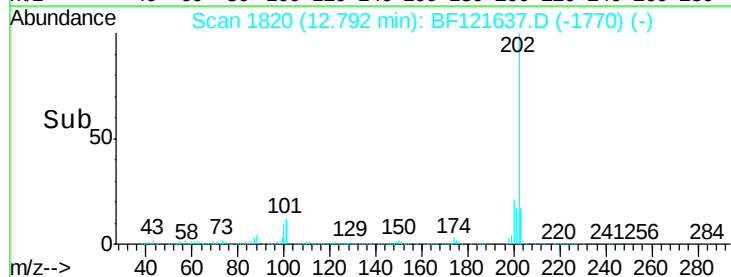
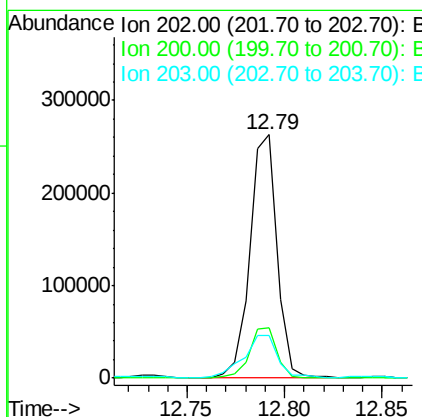
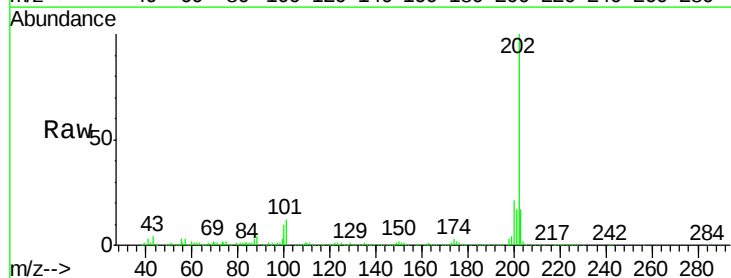
Instrument :
BNA_F
ClientSampleId :
CARLSTADT-TOPSOIL-2020

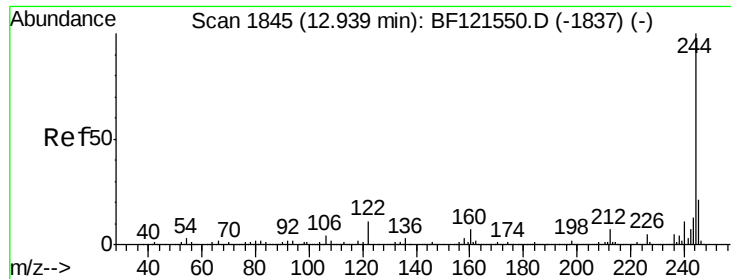
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.0	9.2	13.8
236	25.9	20.4	30.6



#78
Pyrene
Concen: 9.872 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.8	26.6
203	17.4	14.4	21.6





#79

Terphenyl-d14

Concen: 65.415 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

Instrument :

BNA_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

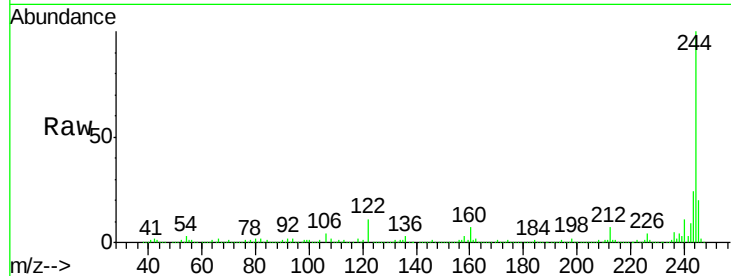
Tot Ion:244 Resp: 1131114

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.5	8.3
122	11.0	7.4	11.0

244 100

212 7.3 5.5 8.3

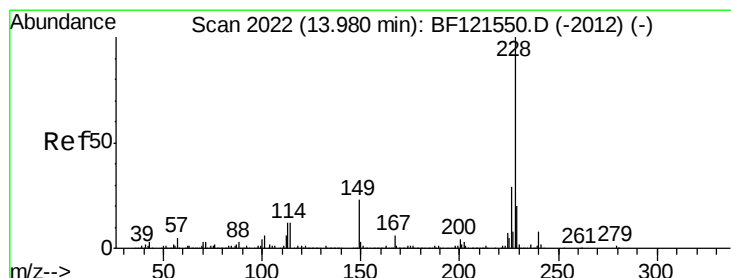
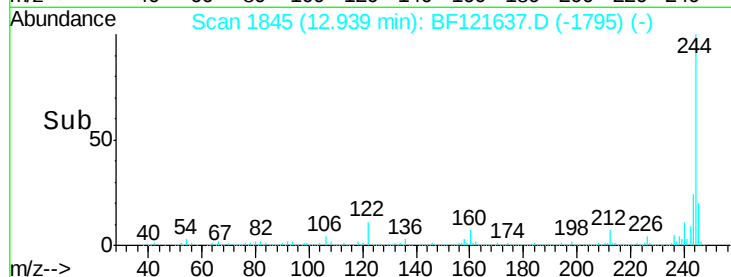
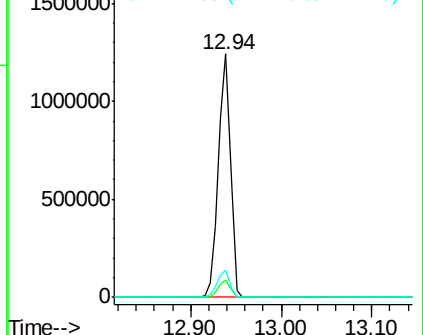
122 11.0 7.4 11.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 5.862 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

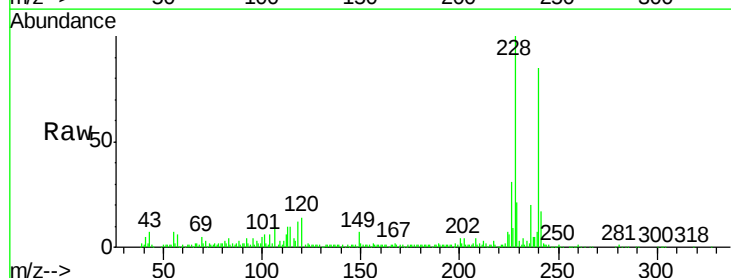
Tgt Ion:228 Resp: 129909

Ion	Ratio	Lower	Upper
228	100		
226	30.6	22.6	33.8
229	20.9	16.2	24.2

228 100

226 30.6 22.6 33.8

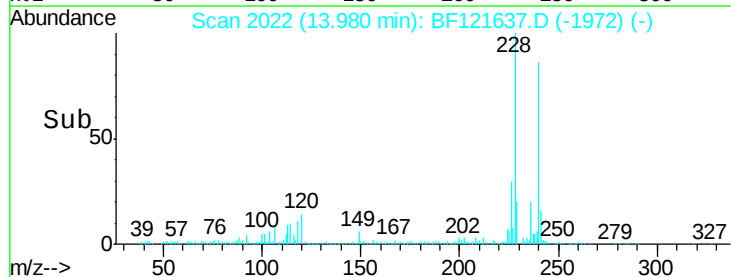
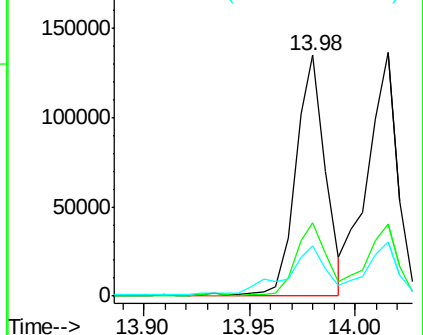
229 20.9 16.2 24.2

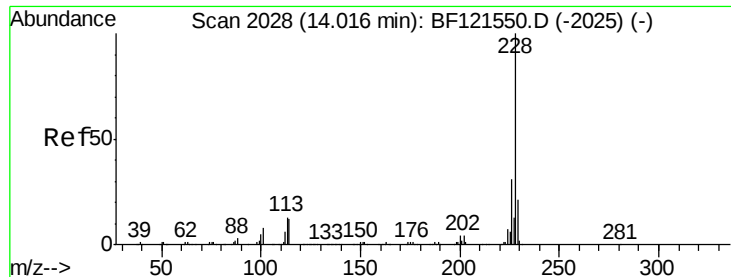


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

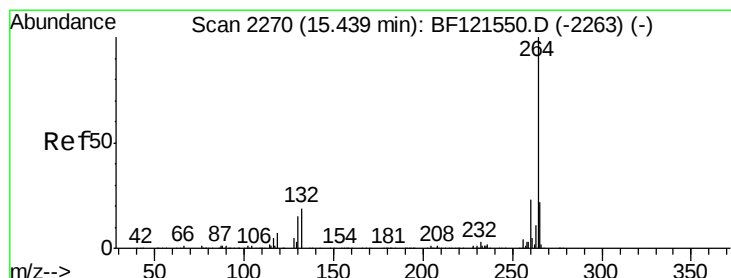
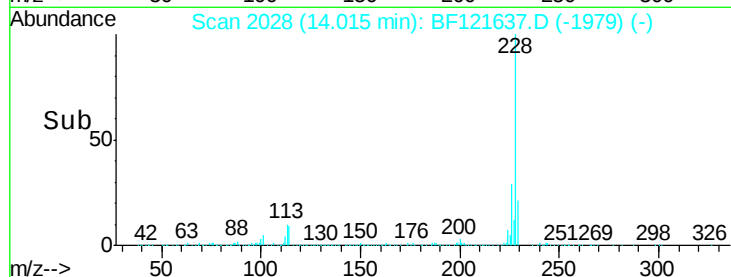
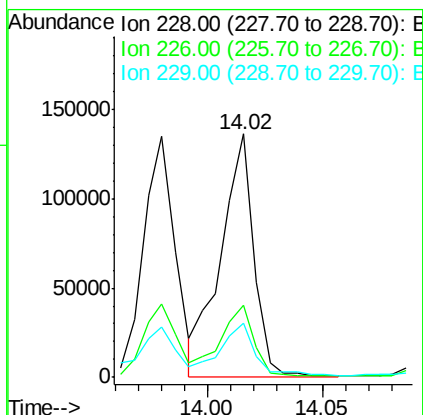
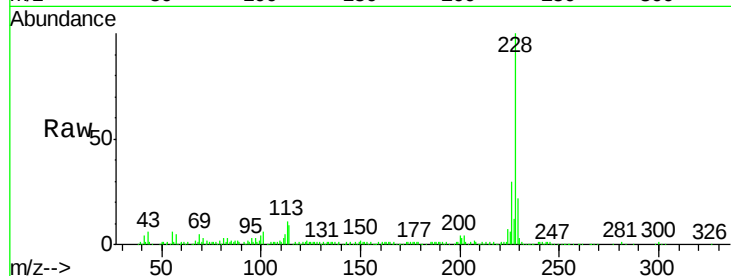




#83
Chrysene
Concen: 6.014 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

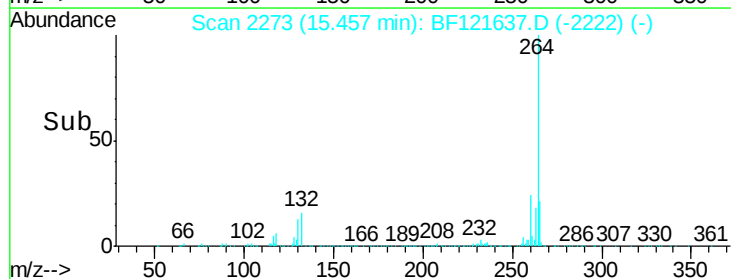
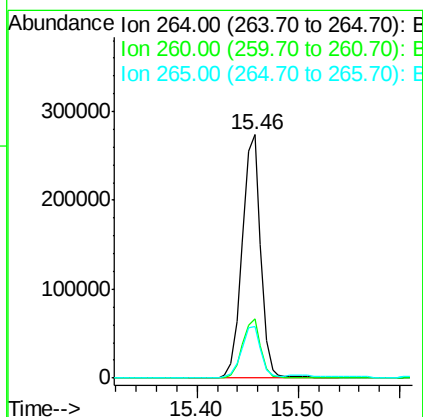
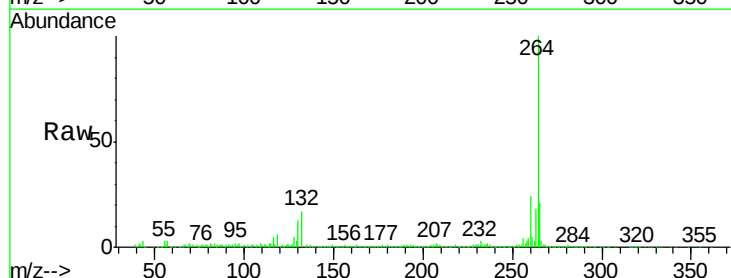
Instrument :
BNA_F
ClientSampleId :
CARLSTADT-TOPSOIL-2020

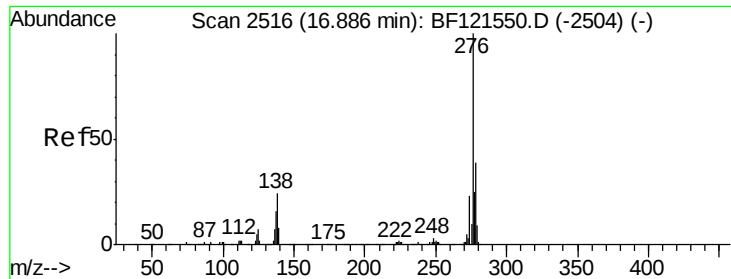
Tot Ion:228 Resp: 134958
Ion Ratio Lower Upper
228 100
226 29.8 25.0 37.4
229 22.5 16.0 24.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.00 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion:264 Resp: 345027
Ion Ratio Lower Upper
264 100
260 24.2 18.8 28.2
265 21.4 17.3 25.9

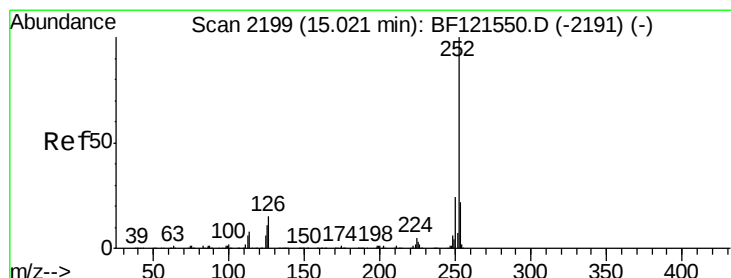
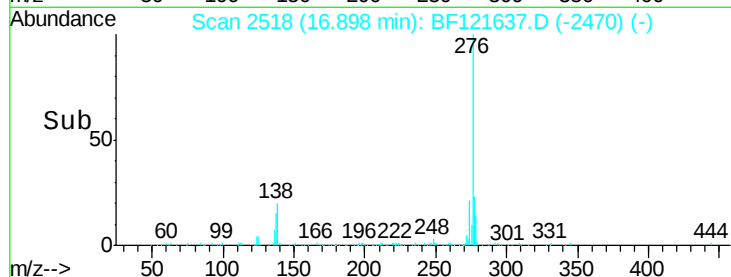
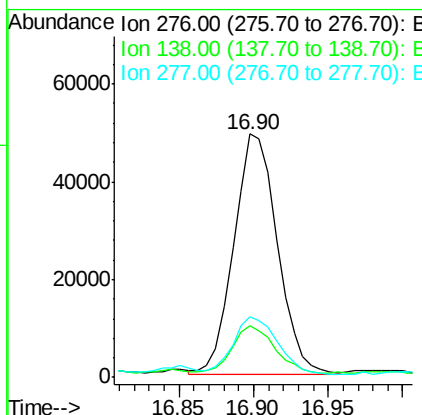
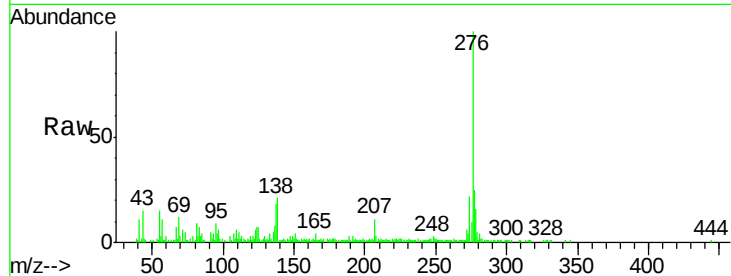




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 4.437 ng
 RT: 16.90 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BF121637.D
 Acq: 21 Sep 2020 20:40

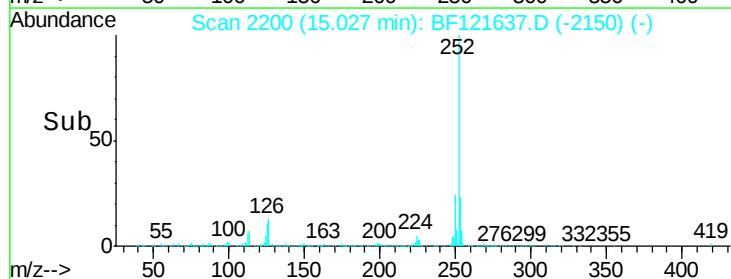
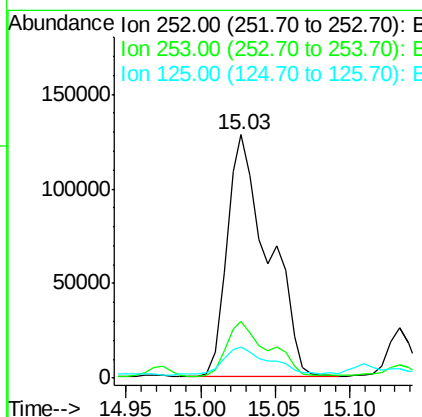
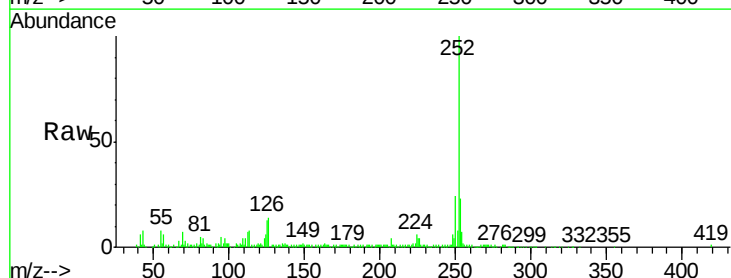
Instrument :
 BNA_F
 ClientSampleId :
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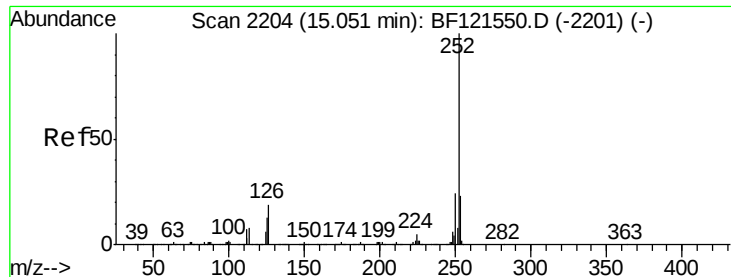
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.1	19.0	28.6
277	24.8	20.2	30.2



#88
 Benzo(b)fluoranthene
 Concen: 10.716 ng
 RT: 15.03 min Scan# 2200
 Delta R.T. -0.01 min
 Lab File: BF121637.D
 Acq: 21 Sep 2020 20:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	12.6	8.5	12.7

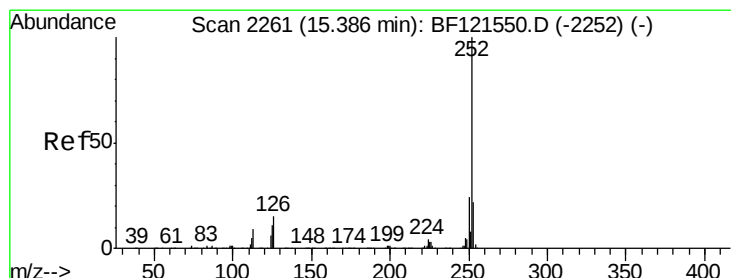
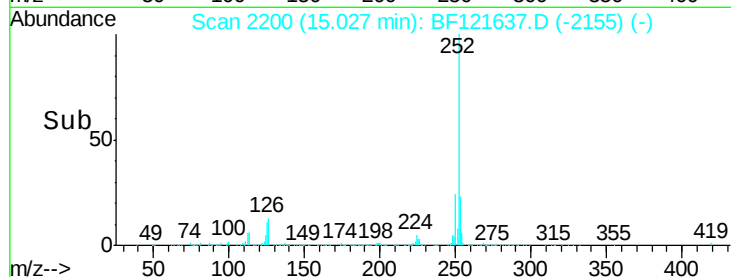
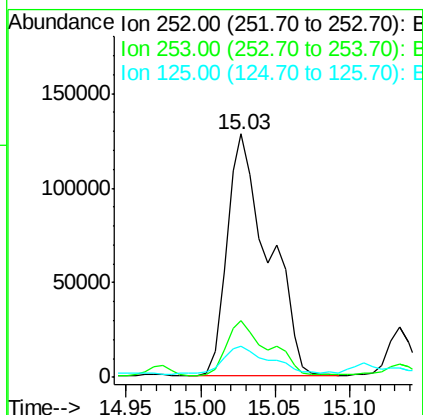
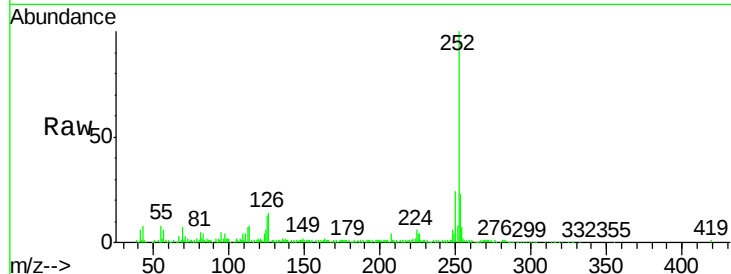




#89
Benzo(k)fluoranthene
Concen: 11.702 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.04 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

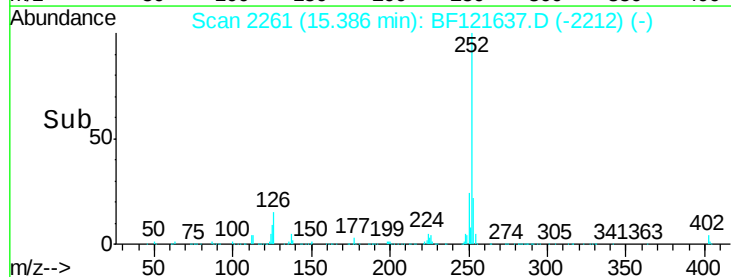
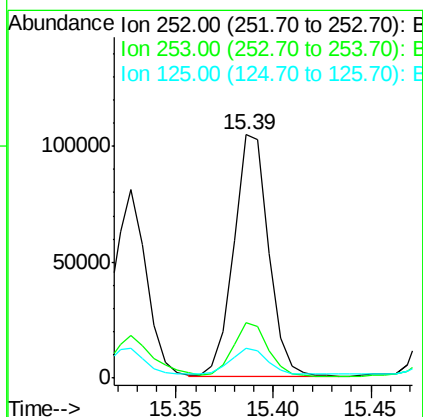
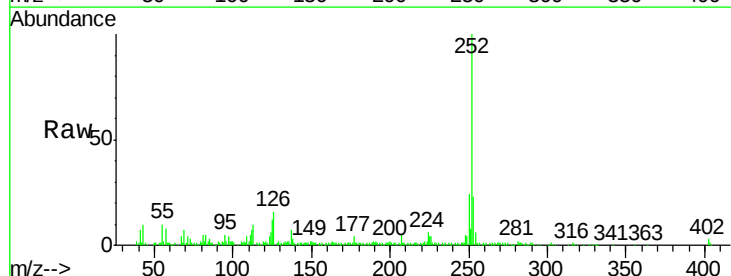
Instrument :
BNA_F
ClientSampleId :
CARLSTADT-TOPSOIL-2020

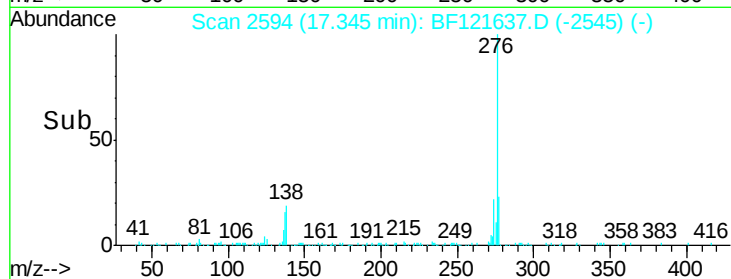
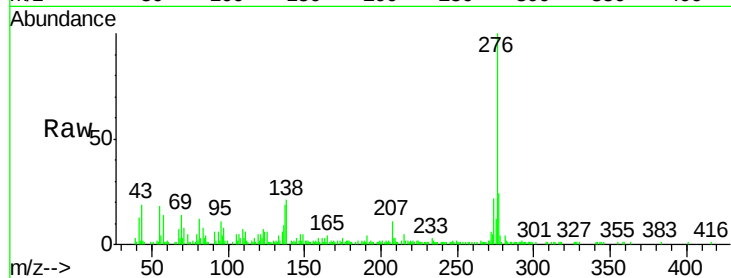
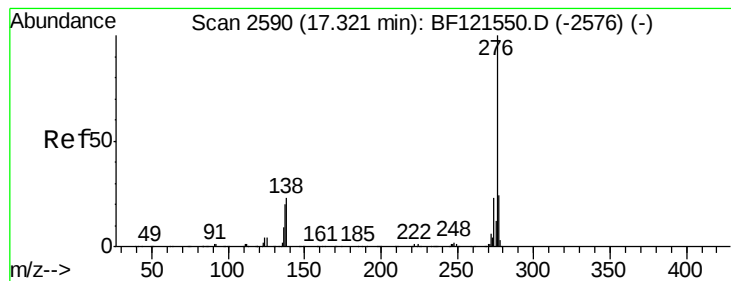
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	12.6	8.4	12.6



#90
Benzo(a)pyrene
Concen: 6.590 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF121637.D
Acq: 21 Sep 2020 20:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.2
125	12.4	9.1	13.7





#92

Benzo(a,h,i)perylene

Concen: 5.271 ng

RT: 17.34 min Scan# 2594

Delta R.T. -0.01 min

Lab File: BF121637.D

Acq: 21 Sep 2020 20:40

Instrument :

BNA_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

Tot Ion:276 Resp: 96910

Ion Ratio Lower Upper

276 100

277 24.0 19.3 28.9

138 20.9 16.9 25.3

