

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
 Data File : BF114551.D
 Acq On : 24 May 2019 3:45
 Operator : JU/SJ
 Sample : K3008-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-20

Quant Time: May 24 07:22:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 23 03:49:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	166699	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	646460	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	317286	20.00	ng	-0.03
64) Phenanthrene-d10	11.33	188	615975	20.00	ng	-0.02
76) Chrysene-d12	13.98	240	394117	20.00	ng	-0.02
87) Perylene-d12	15.45	264	375304	20.00	ng	-0.01

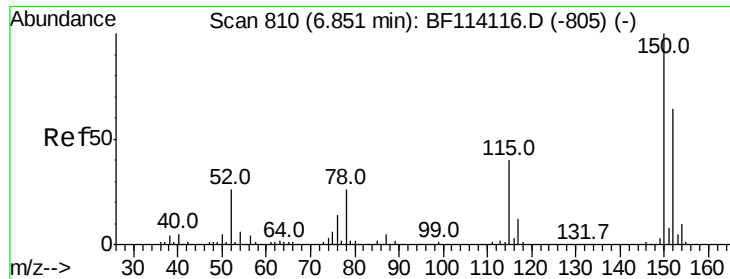
System Monitoring Compounds

5) 2-Fluorophenol	5.44	112	681727	65.81	ng	-0.03
7) Phenol-d6	6.46	99	981922	80.15	ng	-0.03
23) Nitrobenzene-d5	7.37	82	597334	51.86	ng	-0.03
42) 2,4,6-Tribromophenol	10.64	330	189103	57.65	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	1068259	50.93	ng	-0.02
79) Terphenyl-d14	12.92	244	976997	51.10	ng	-0.02

Target Compounds

						Qvalue
19) n-Nitroso-di-n-propylamine	7.37	70	79155	10.193	ng	# 75
25) Isophorone	7.37	82	597328	27.960	ng	# 64
32) Benzoic acid	7.91	122	660	7.109	ng	# 72
50) Dimethylphthalate	9.56	163	143873	6.177	ng	98
52) Acenaphthene	9.88	154	48418	2.515	ng	99
58) Fluorene	10.40	166	72057	3.304	ng	96
71) Phenanthrene	11.36	178	654657	21.845	ng	98
72) Anthracene	11.41	178	204718	6.801	ng	96
73) Carbazole	11.57	167	60703	2.115	ng	99
75) Fluoranthene	12.55	202	1088517	33.730	ng	99
78) Pyrene	12.78	202	1021880	32.231	ng	99
81) Benzo(a)anthracene	13.97	228	542485	21.281	ng	96
83) Chrysene	14.01	228	473200	18.937	ng	97
86) Indeno(1,2,3-cd)pyrene	16.92	276	209790	9.499	ng	96
88) Benzo(b)fluoranthene	15.03	252	795060	33.067	ng	98
89) Benzo(k)fluoranthene	15.03	252	795060	35.997	ng	99
90) Benzo(a)pyrene	15.39	252	446021	21.078	ng	96
91) Dibenzo(a,h)anthracene	16.92	278	52360	2.978	ng	# 85
92) Benzo(a,h,i)perylene	17.37	276	190417	10.806	ng	97

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

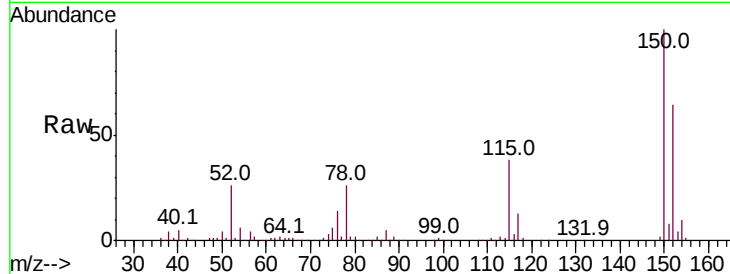


#1

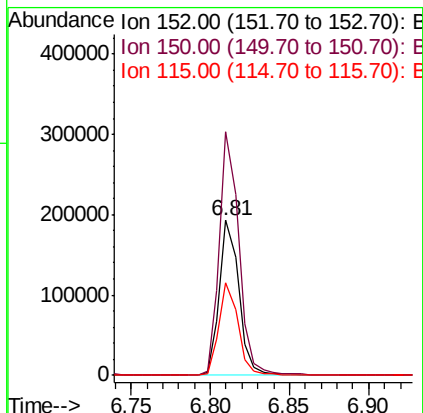
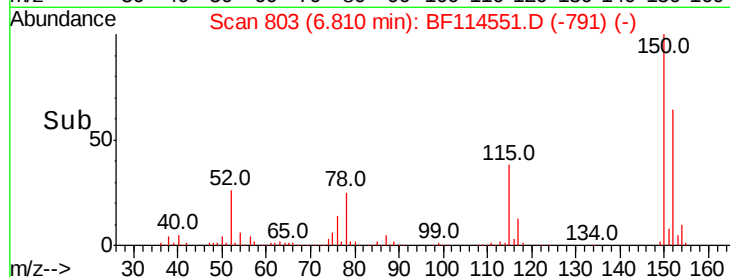
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.03 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

Instrument :
 BNA_F
 ClientSampleId :
 COMP-20

Tot Ion:152 Resp: 166699
 Ion Ratio Lower Upper
 152 100
 150 157.2 124.3 186.5
 115 60.0 49.1 73.7



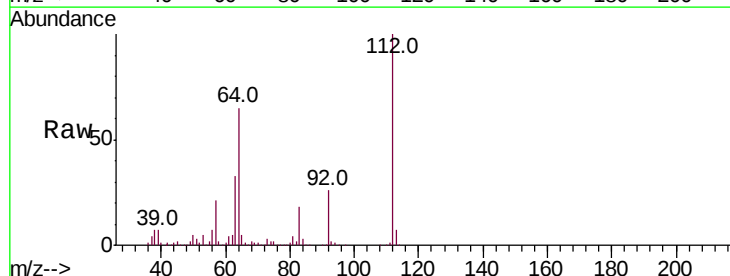
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



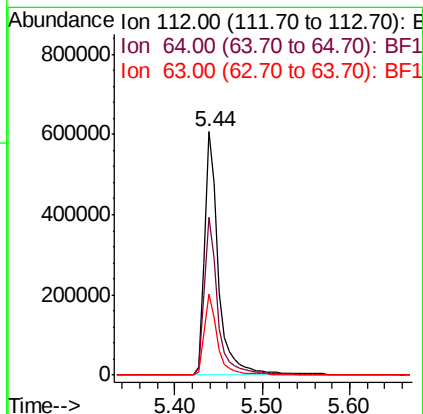
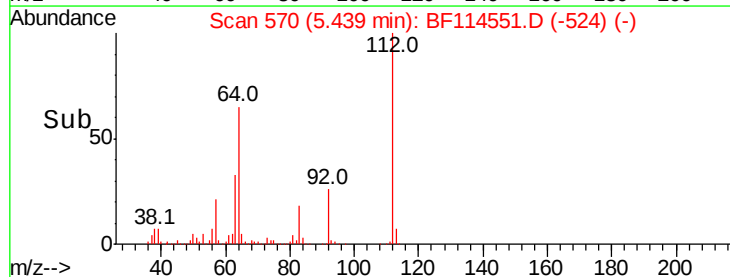
#5

2-Fluorophenol
 Concen: 65.812 ng
 RT: 5.44 min Scan# 570
 Delta R.T. -0.03 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

Tgt Ion:112 Resp: 681727
 Ion Ratio Lower Upper
 112 100
 64 64.7 49.0 73.6
 63 33.3 24.6 37.0



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: 80.146 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

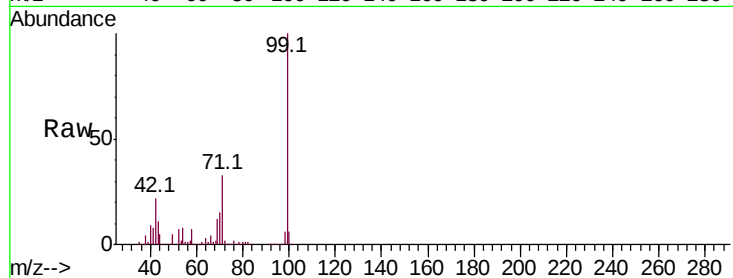
Tot Ion: 99 Resp: 981922

Ion Ratio Lower Upper

99 100

42 22.1 17.9 26.9

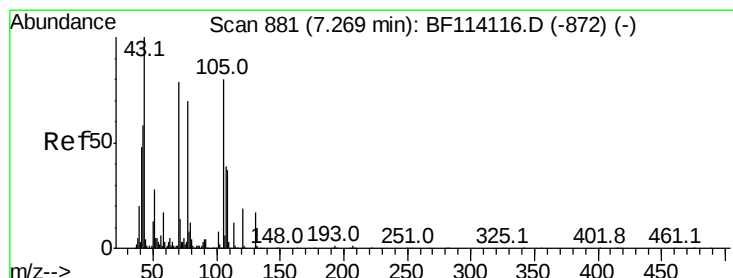
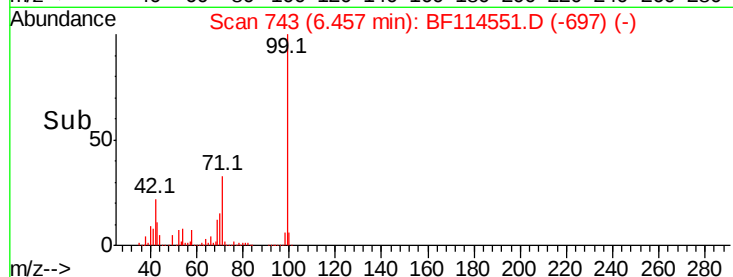
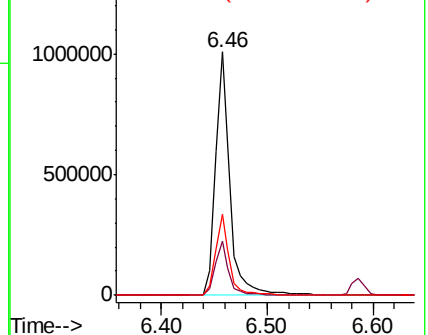
71 33.4 26.2 39.2



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 10.193 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.12 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Tgt Ion: 70 Resp: 79155

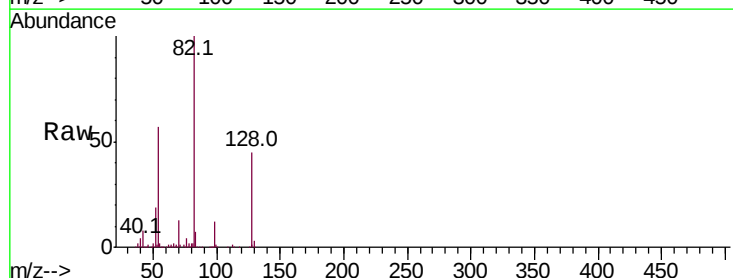
Ion Ratio Lower Upper

70 100

42 55.8 58.6 87.8#

101 0.0 7.8 11.8#

130 2.4 17.1 25.7#

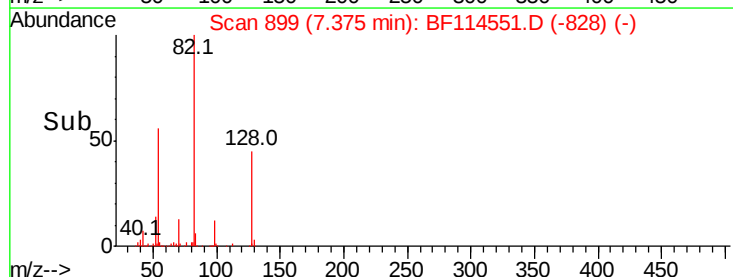
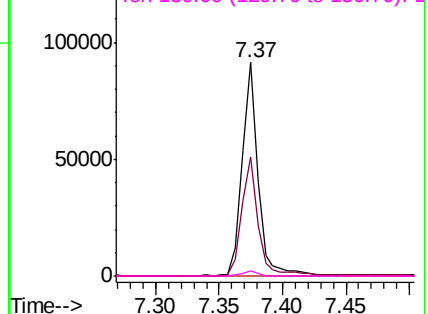


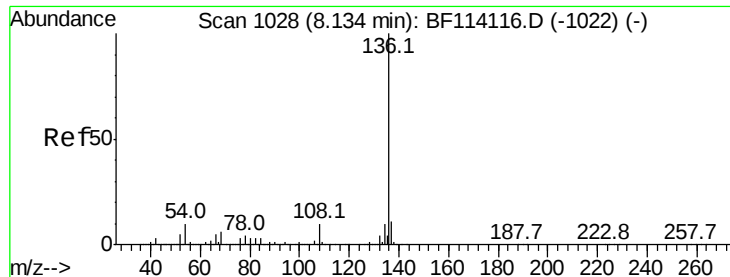
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

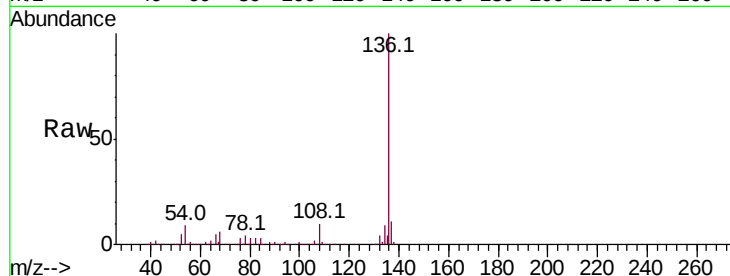




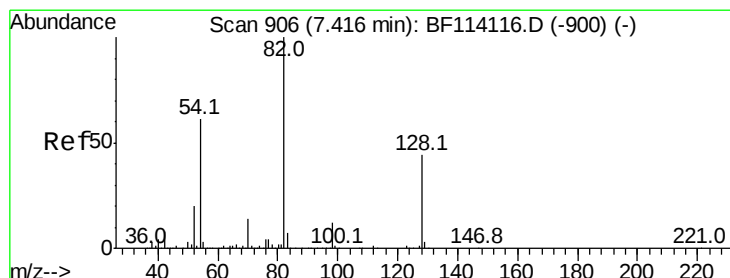
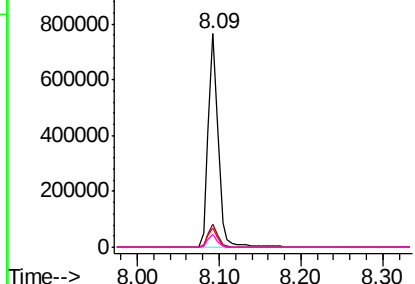
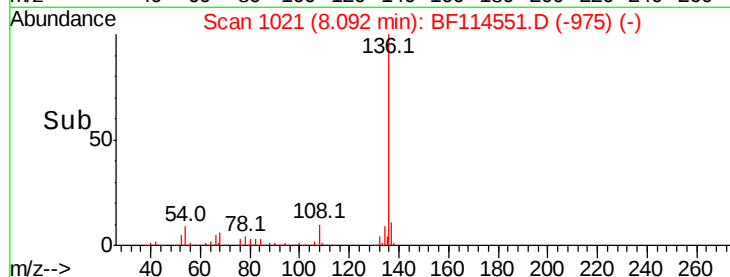
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.03 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

Instrument :
BNA_F
ClientSampleId :
COMP-20

Tot Ion:	136	Resp:	646460
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	9.3	7.8	11.8
68	5.7	5.1	7.7

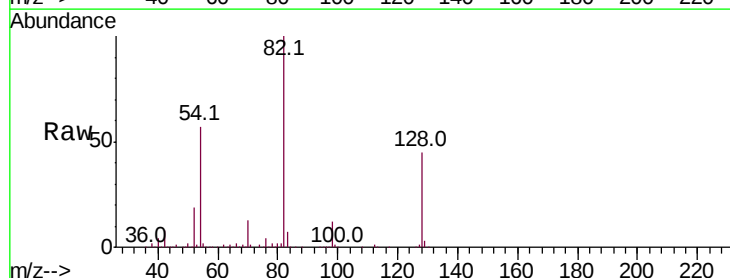


Abundance Ion 136.00 (135.70 to 136.70): E
1200000
Ion 137.00 (136.70 to 137.70): E
1000000
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

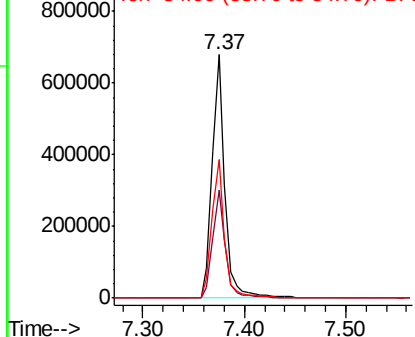
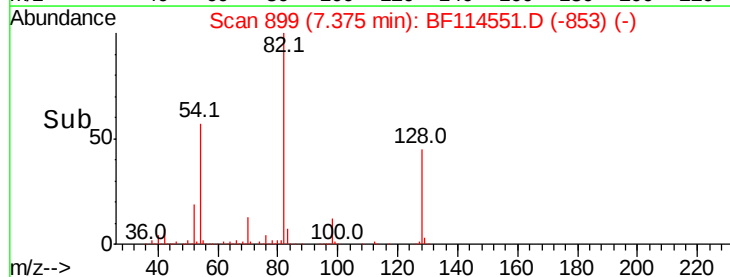


#23
Nitrobenzene-d5
Concen: 51.855 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.03 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

Tgt Ion:	82	Resp:	597334
Ion	Ratio	Lower	Upper
82	100		
128	44.5	35.5	53.3
54	56.8	48.5	72.7



Abundance Ion 82.00 (81.70 to 82.70): BF1
800000
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 27.960 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.29 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

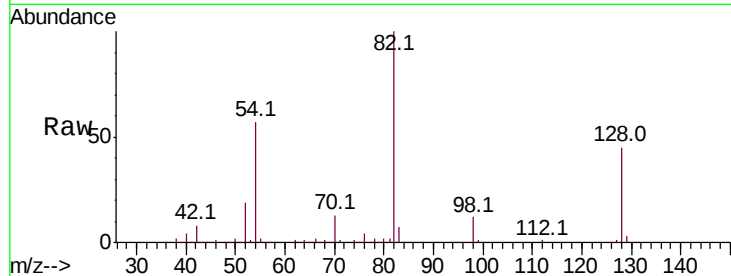
Tot Ion: 82 Resp: 597328

Ion Ratio Lower Upper

82 100

95 0.1 5.6 8.4#

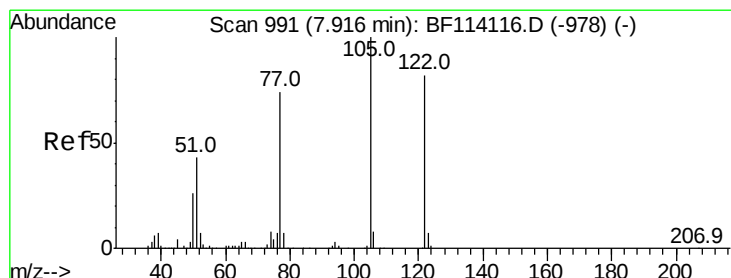
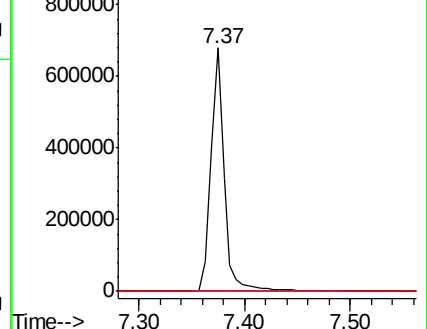
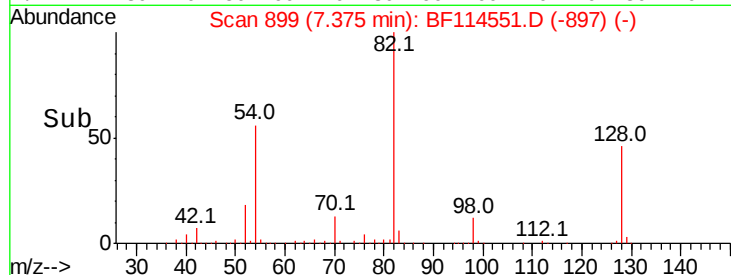
138 0.0 14.8 22.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#32

Benzoic acid

Concen: 7.109 ng

RT: 7.91 min Scan# 990

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

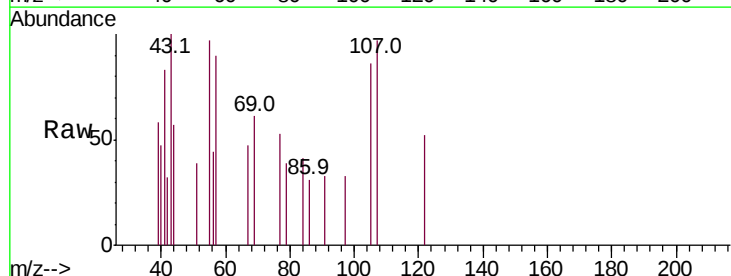
Tgt Ion:122 Resp: 660

Ion Ratio Lower Upper

122 100

105 163.7 99.9 139.9#

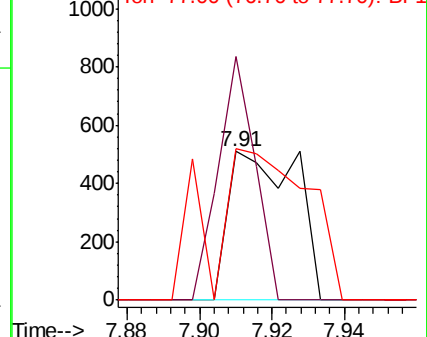
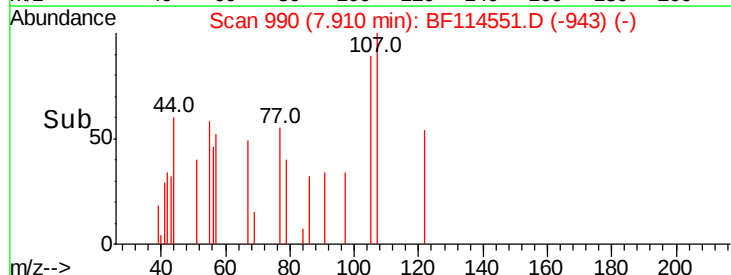
77 101.6 69.4 109.4

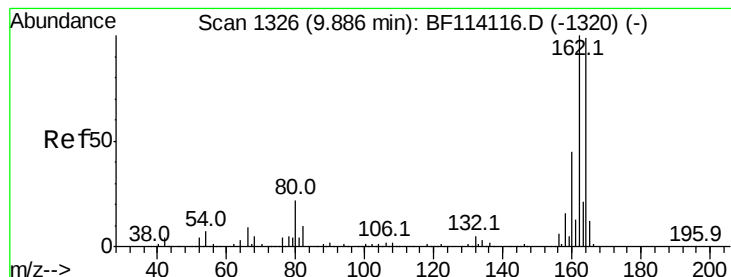


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.03 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

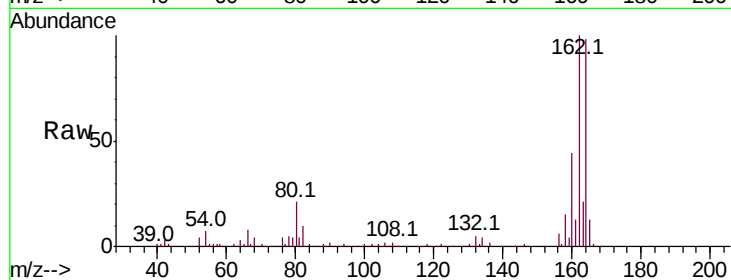
Tot Ion:164 Resp: 317286

Ion Ratio Lower Upper

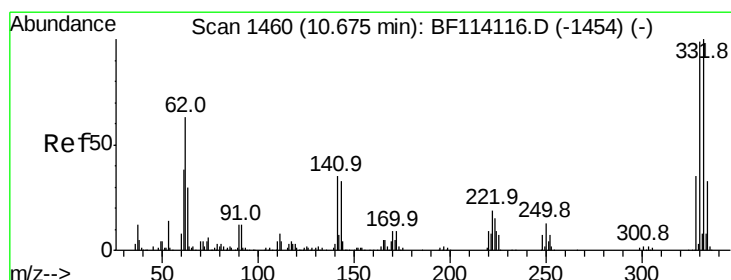
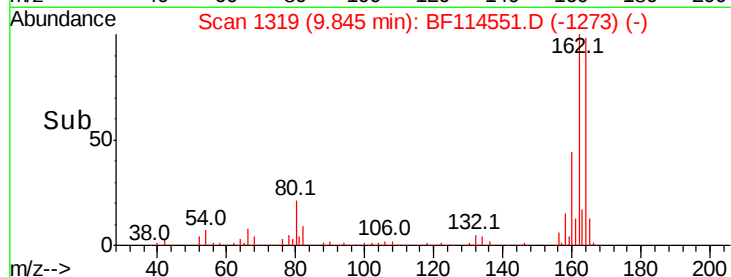
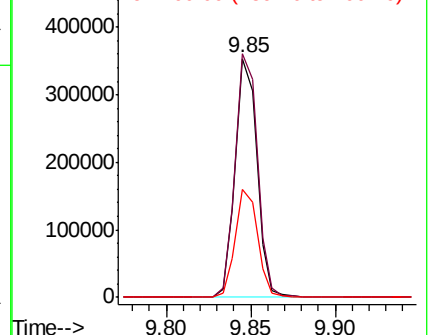
164 100

162 102.0 80.6 120.8

160 45.3 36.5 54.7



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 57.650 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

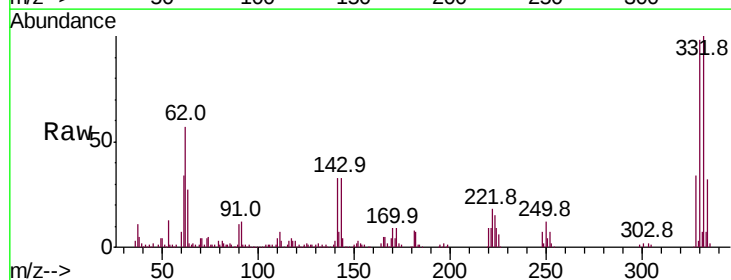
Tgt Ion:330 Resp: 189103

Ion Ratio Lower Upper

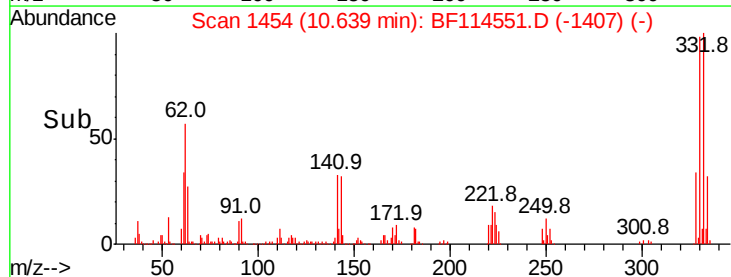
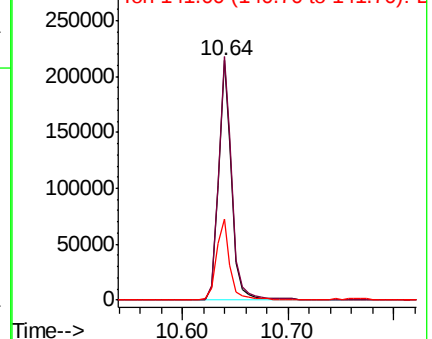
330 100

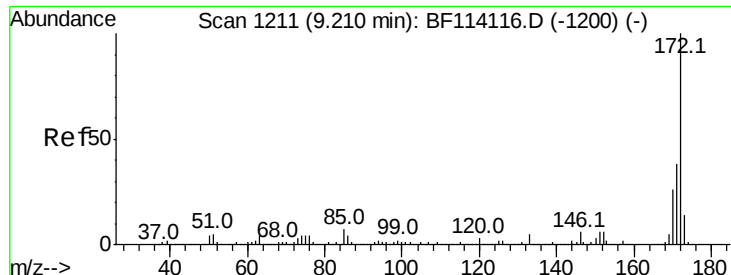
332 103.2 81.4 122.2

141 34.1 26.6 40.0



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



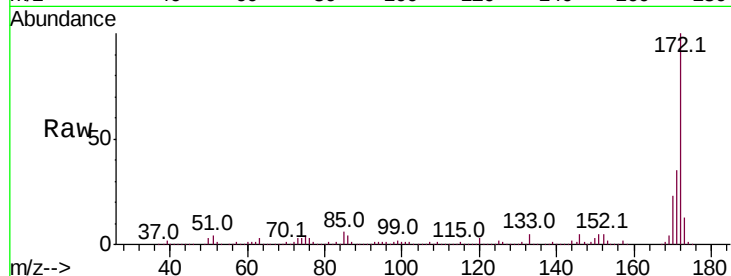


#45
 2-Fluorobiphenyl
 Concen: 50.929 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

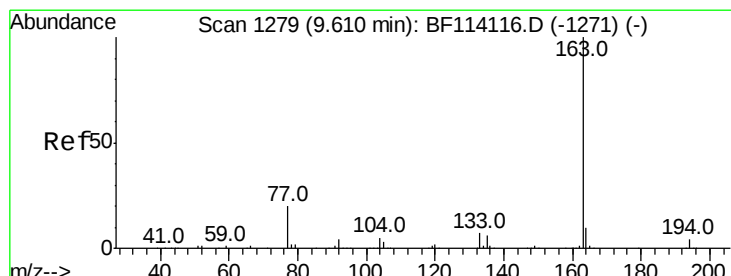
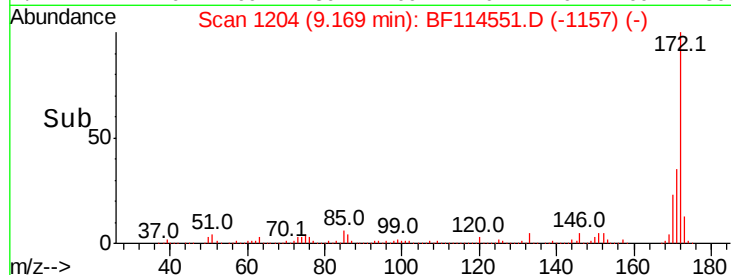
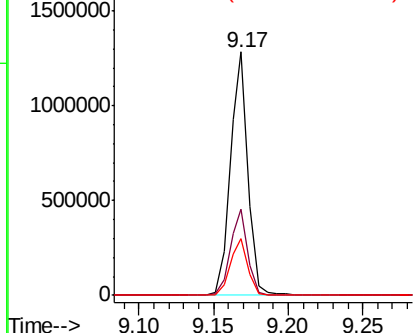
Instrument :
 BNA_F
 ClientSampleId :
 COMP-20

Tot Ion:172 Resp: 1068259

Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.7	46.1
170	23.3	20.5	30.7



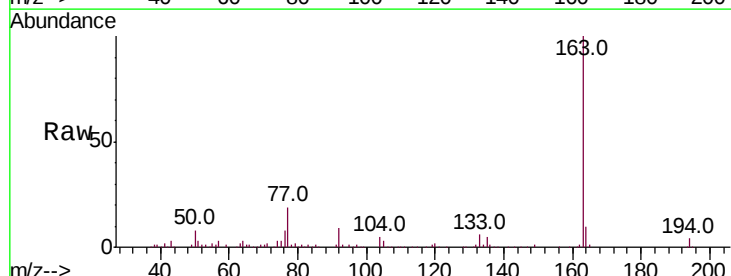
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



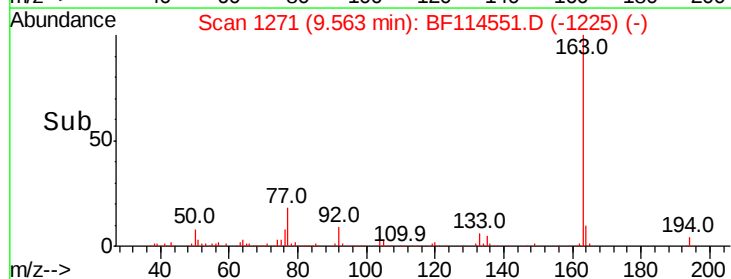
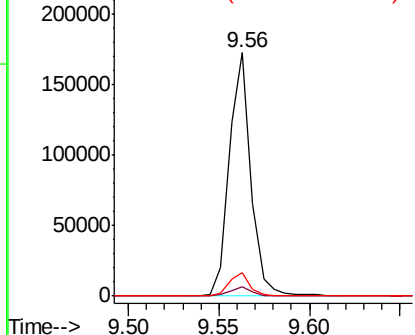
#50
 Dimethylphthalate
 Concen: 6.177 ng
 RT: 9.56 min Scan# 1271
 Delta R.T. -0.03 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

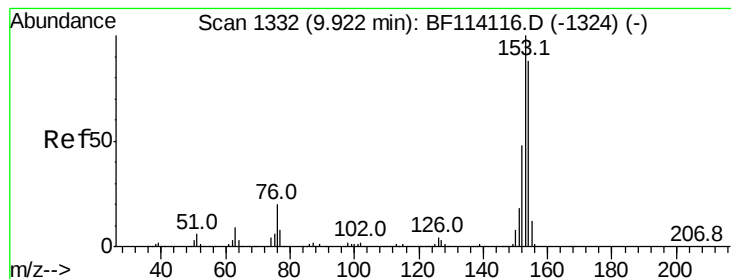
Tgt Ion:163 Resp: 143873

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.0
164	9.5	8.2	12.2



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





#52

Acenaphthene

Concen: 2.515 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.03 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

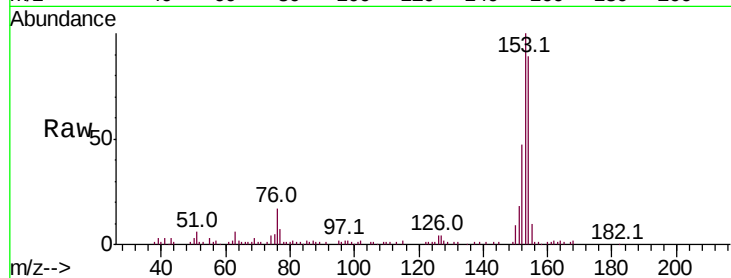
Tot Ion:154 Resp: 48418

Ion Ratio Lower Upper

154 100

153 112.8 90.5 135.7

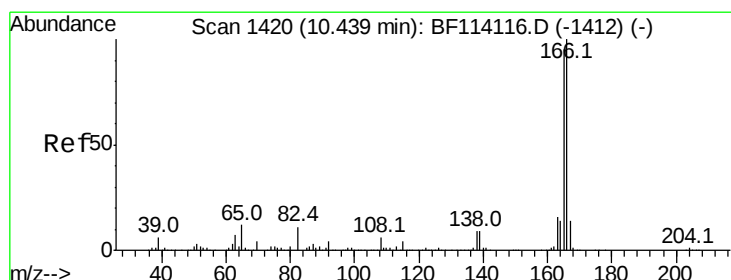
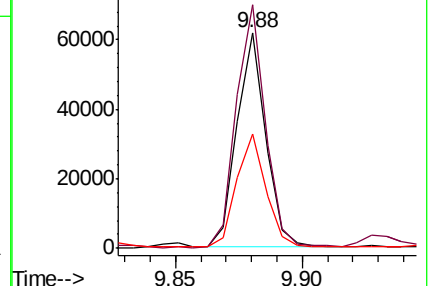
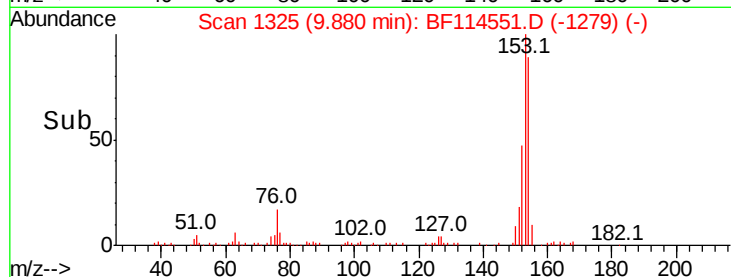
152 53.3 43.4 65.2



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



#58

Fluorene

Concen: 3.304 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

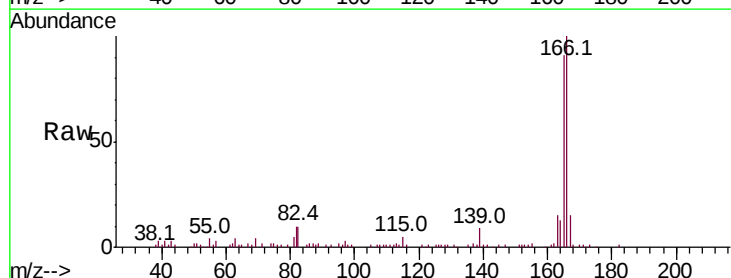
Tgt Ion:166 Resp: 72057

Ion Ratio Lower Upper

166 100

165 90.8 76.1 114.1

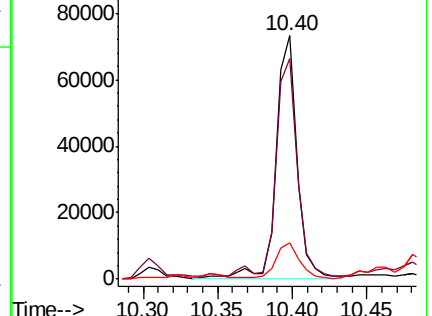
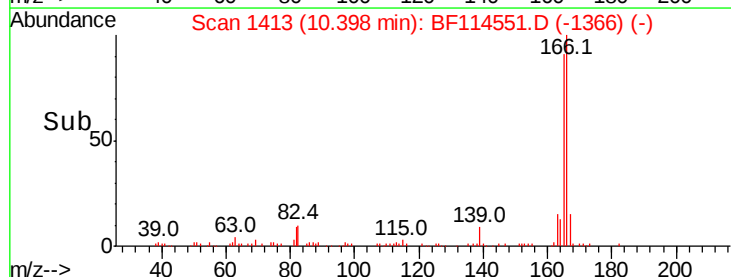
167 14.7 11.1 16.7

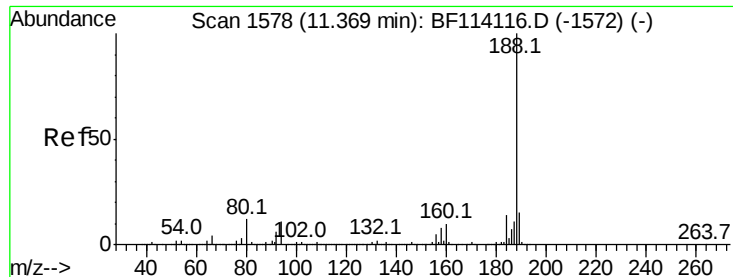


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

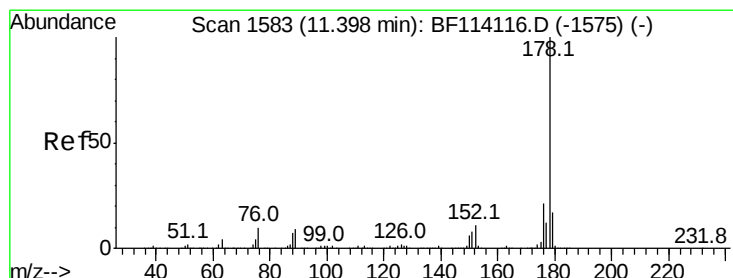
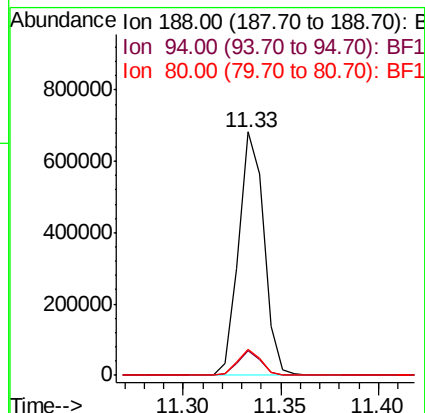
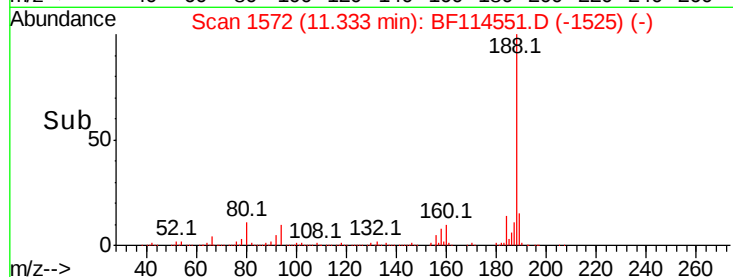
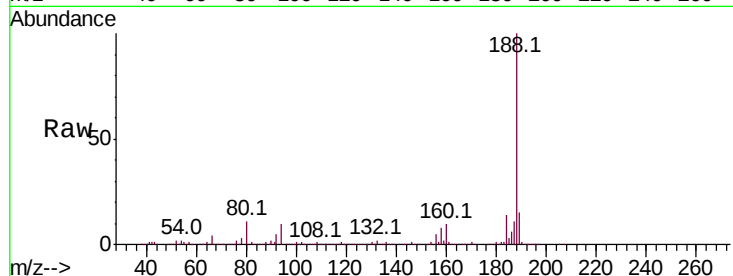
Tot Ion:188 Resp: 615975

Ion Ratio Lower Upper

188 100

94 10.1 8.4 12.6

80 10.5 9.2 13.8



#71

Phenanthrene

Concen: 21.845 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

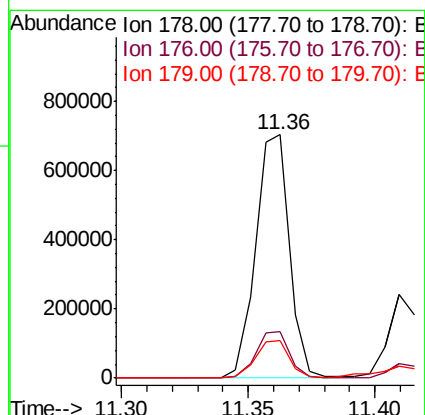
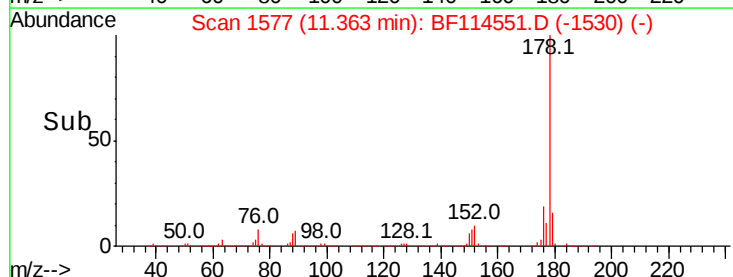
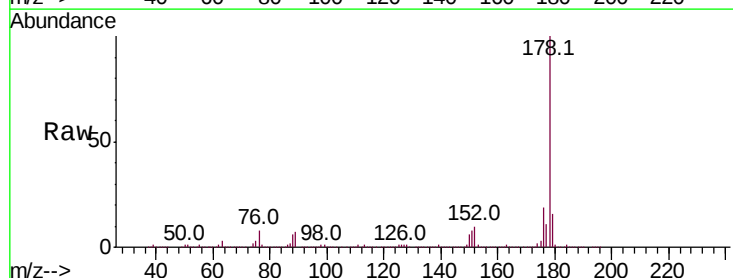
Tgt Ion:178 Resp: 654657

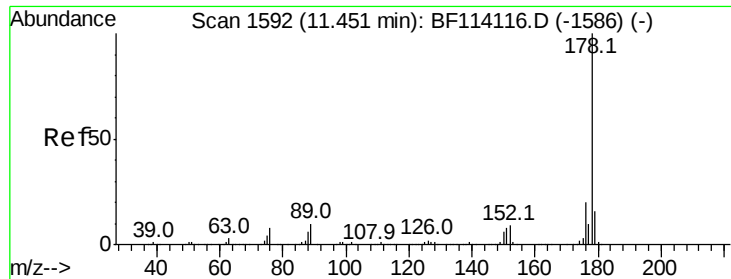
Ion Ratio Lower Upper

178 100

176 19.3 16.4 24.6

179 15.6 13.2 19.8





#72

Anthracene

Concen: 6.801 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.03 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

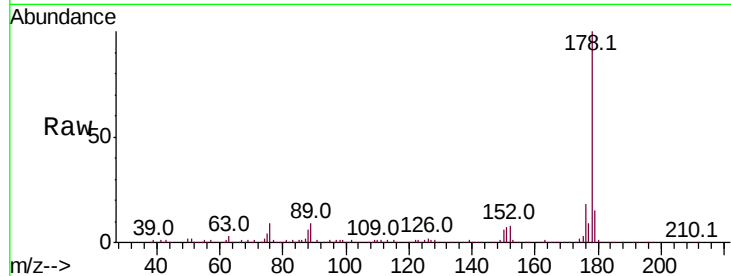
Tot Ion:178 Resp: 204718

Ion Ratio Lower Upper

178 100

176 17.8 15.8 23.8

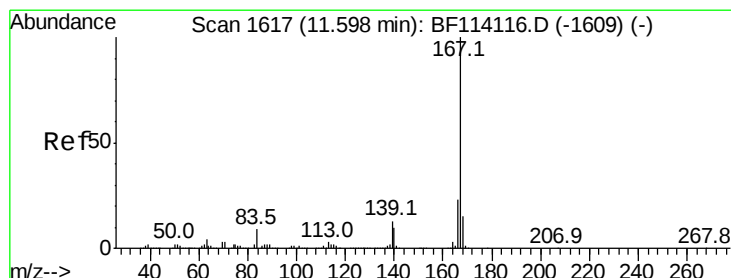
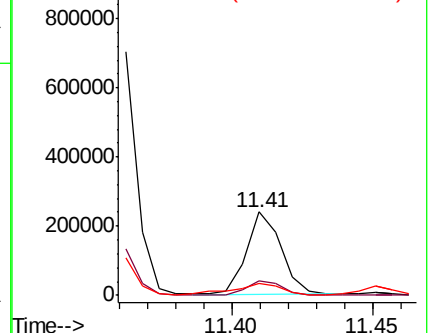
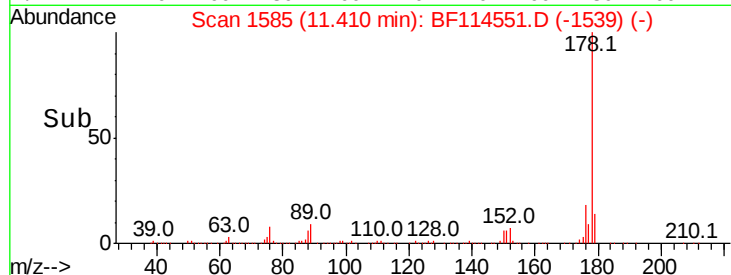
179 14.7 13.0 19.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.115 ng

RT: 11.57 min Scan# 1612

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

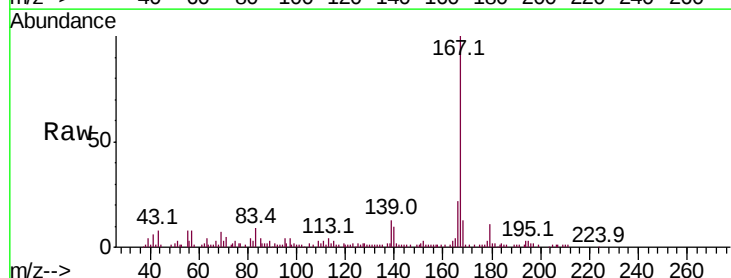
Tgt Ion:167 Resp: 60703

Ion Ratio Lower Upper

167 100

166 21.6 18.2 27.2

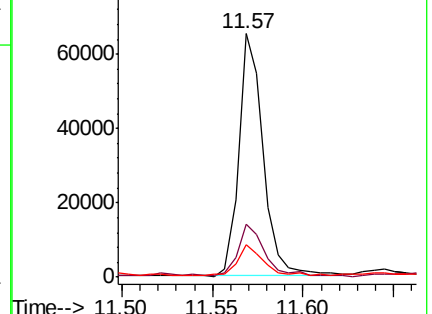
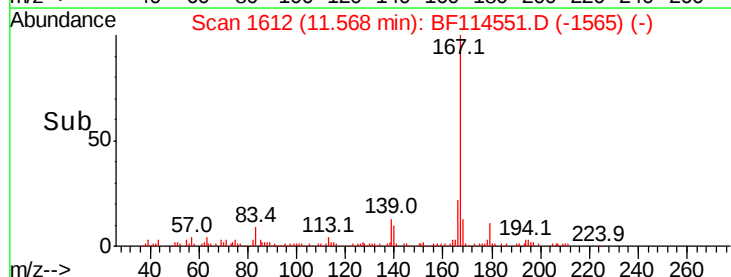
139 13.4 10.6 16.0

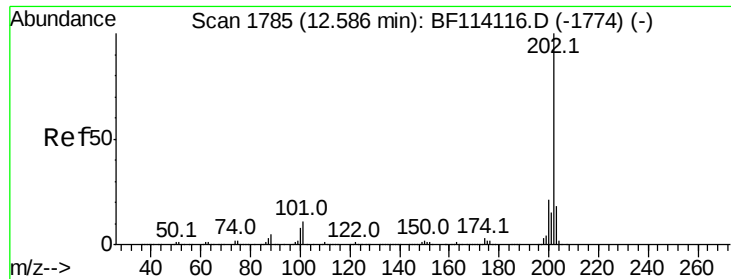


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 33.730 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

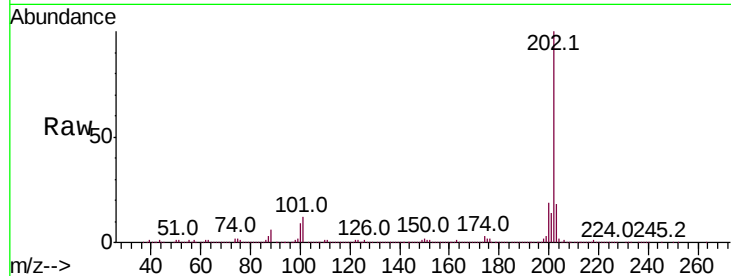
BNA_F

ClientSampleId :

COMP-20

Tot Ion:202 Resp: 1088517

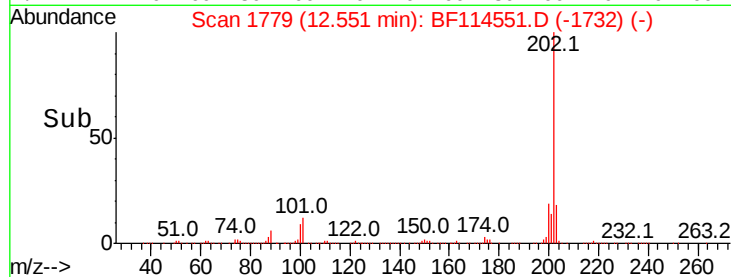
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.0
203	17.9	0.0	38.4



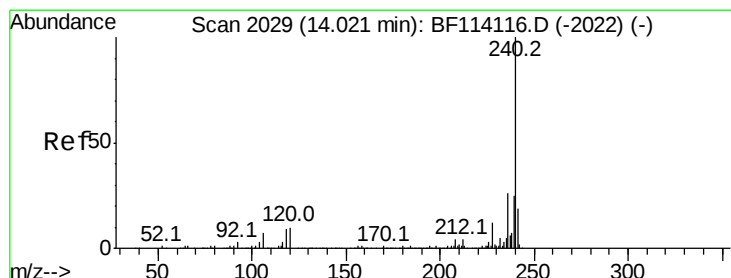
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

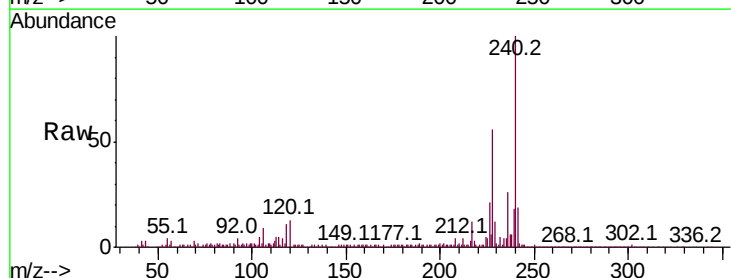
Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Tgt Ion:240 Resp: 394117

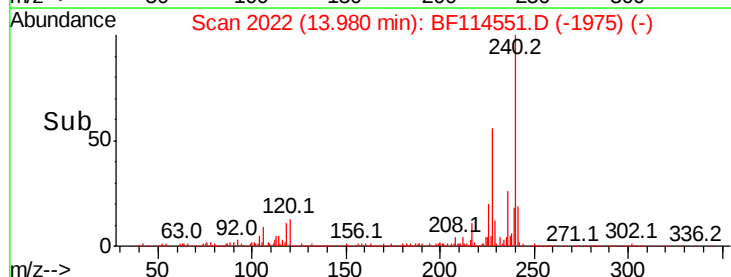
Ion	Ratio	Lower	Upper
240	100		
120	13.2	8.3	12.5#
236	26.1	20.8	31.2



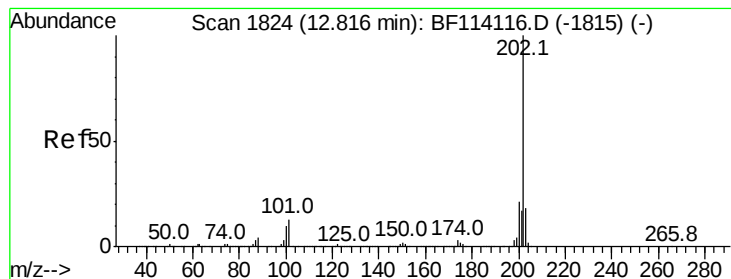
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#78

Pvrene

Concen: 32.231 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

Instrument :

BNA_F

ClientSampleId :

COMP-20

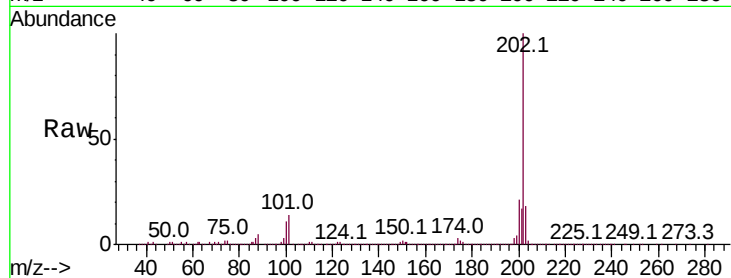
Tot Ion:202 Resp: 1021880

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.9	25.3
203	18.3	14.5	21.7

202 100

200 20.5 16.9 25.3

203 18.3 14.5 21.7

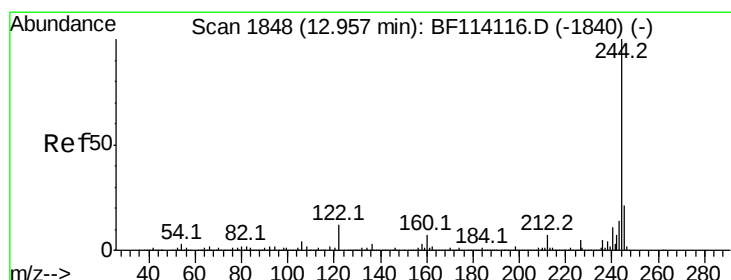
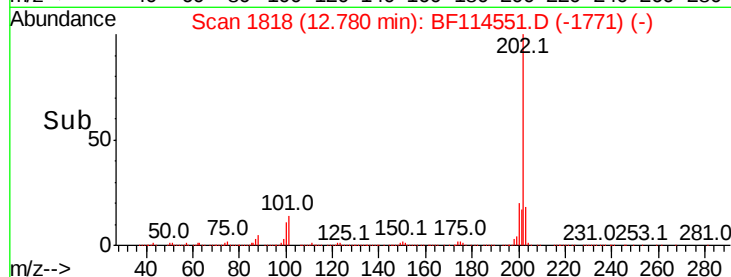
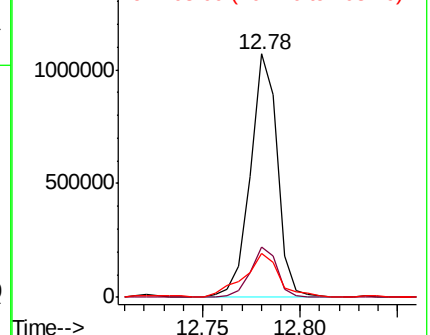


Abundance

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



#79

Terphenyl-d14

Concen: 51.102 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.02 min

Lab File: BF114551.D

Acq: 24 May 2019 3:45

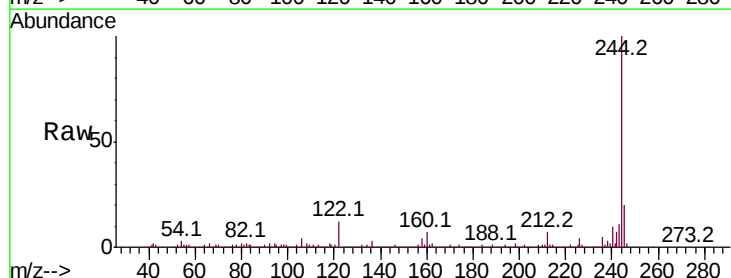
Tgt Ion:244 Resp: 976997

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	12.0	9.4	14.2

244 100

212 6.7 5.8 8.6

122 12.0 9.4 14.2

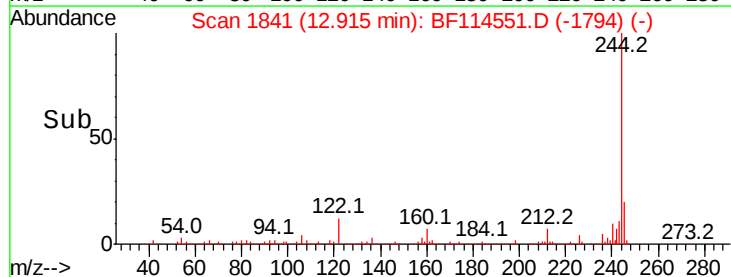
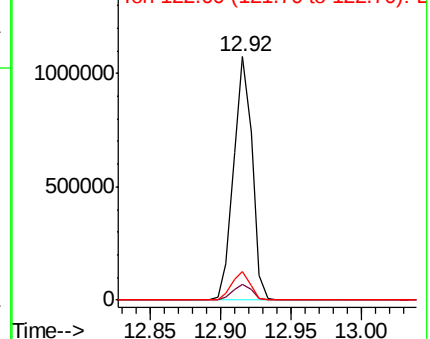


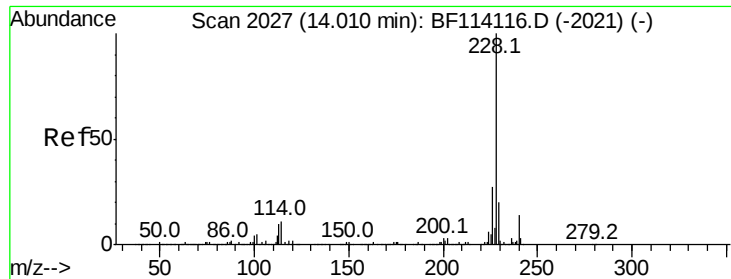
Abundance

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

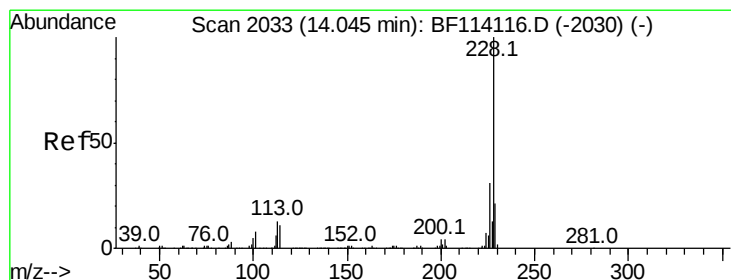
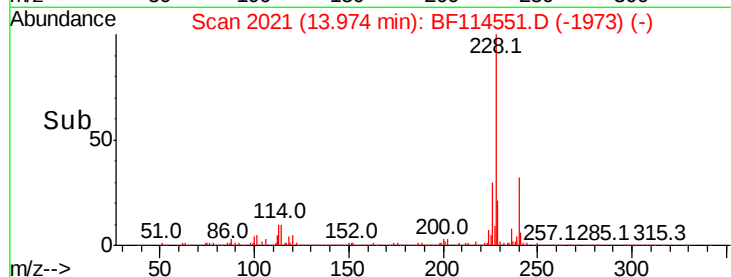
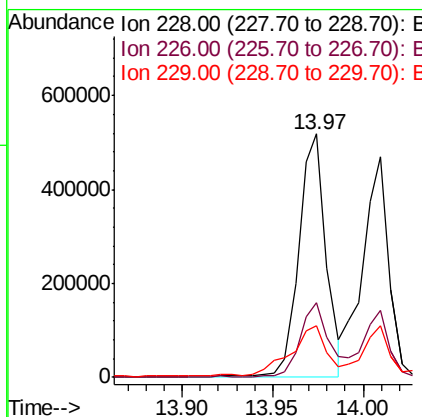
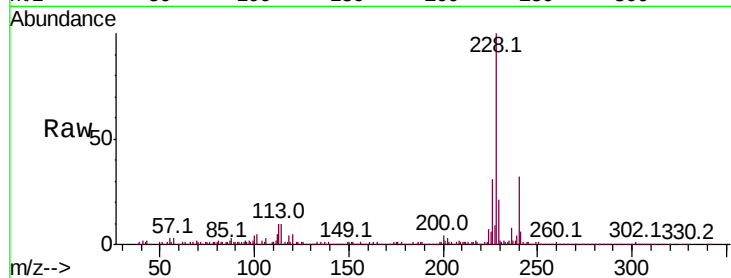




#81
Benzo(a)anthracene
Concen: 21.281 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.02 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

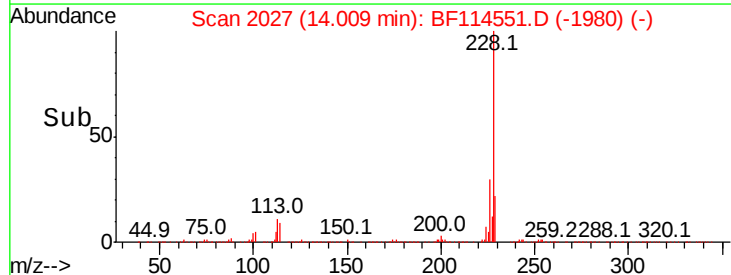
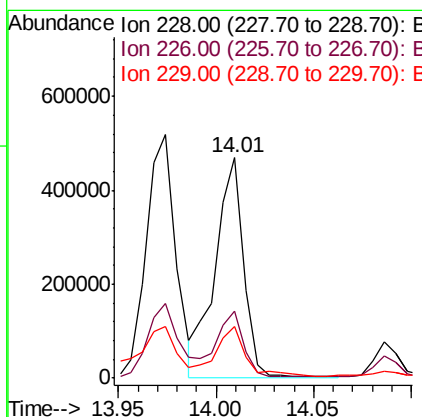
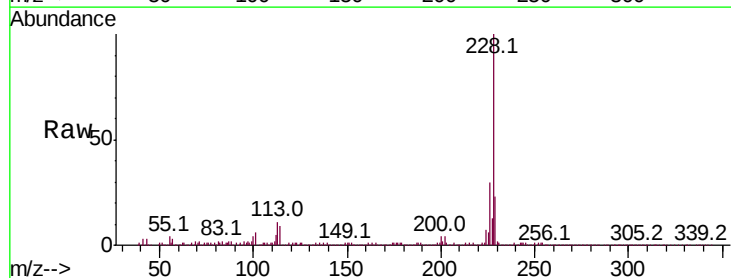
Instrument :
BNA_F
ClientSampleId :
COMP-20

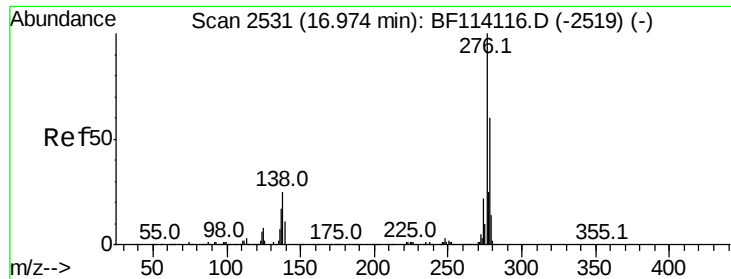
Tot Ion:228 Resp: 542485
Ion Ratio Lower Upper
228 100
226 30.6 22.2 33.2
229 21.1 16.4 24.6



#83
Chrysene
Concen: 18.937 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.02 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

Tgt Ion:228 Resp: 473200
Ion Ratio Lower Upper
228 100
226 30.3 25.0 37.6
229 23.4 17.0 25.6

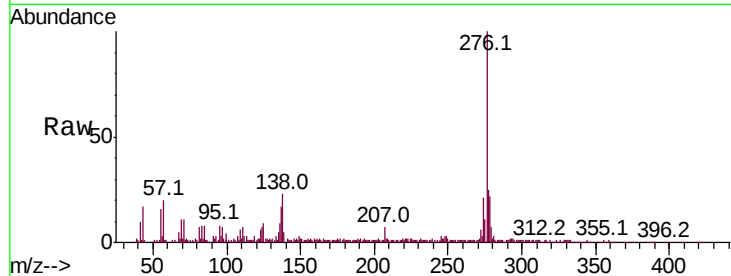




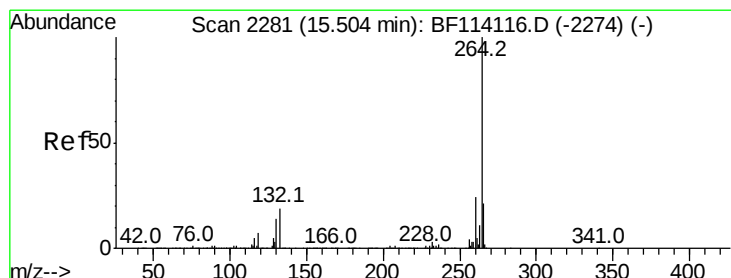
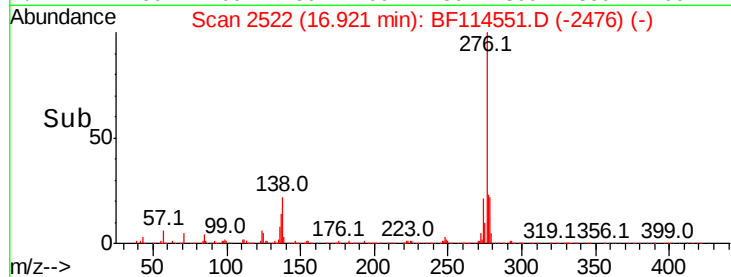
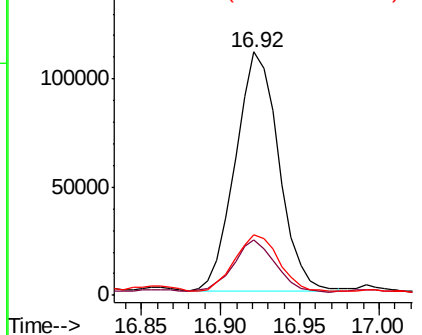
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 9.499 ng
 RT: 16.92 min Scan# 2522
 Delta R.T. -0.03 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

Instrument :
 BNA_F
 ClientSampleId :
 COMP-20

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.3	20.2	30.2
277	24.4	20.0	30.0

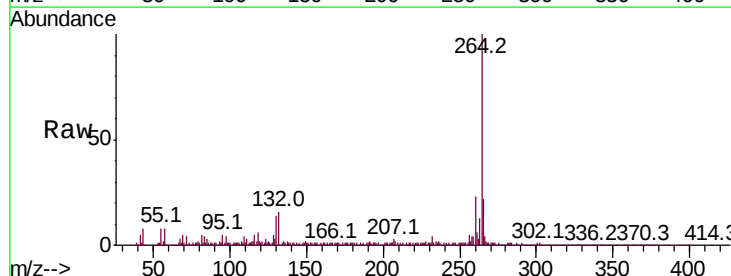


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

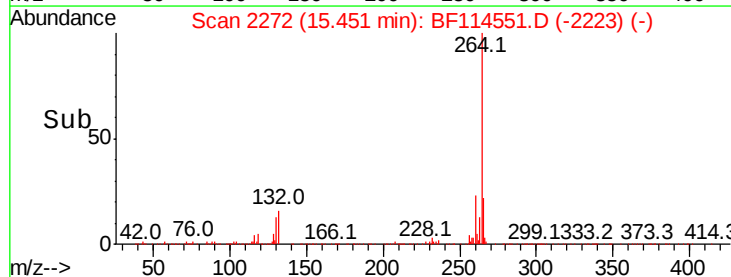
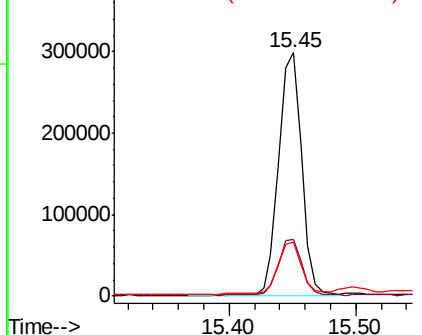


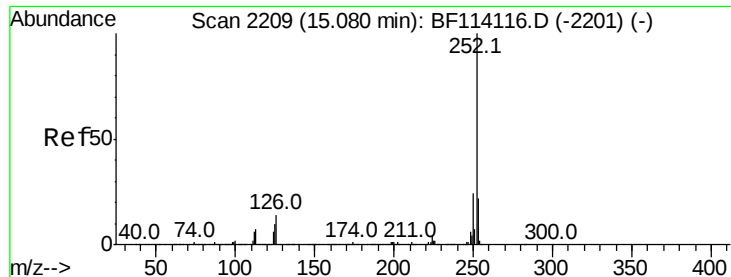
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.45 min Scan# 2272
 Delta R.T. -0.01 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.0
265	22.5	16.9	25.3



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

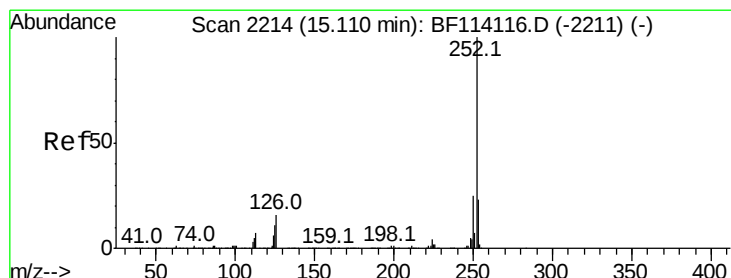
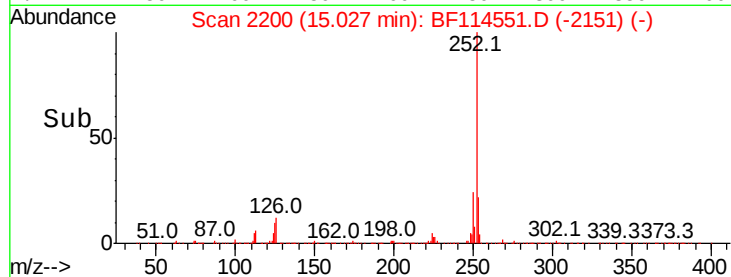
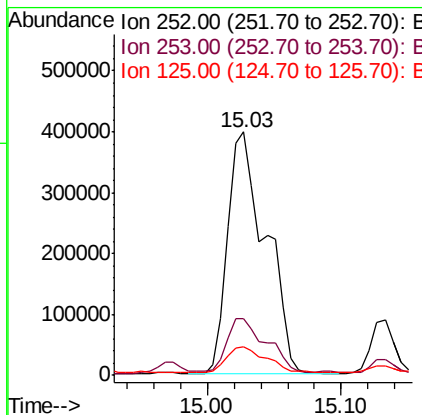
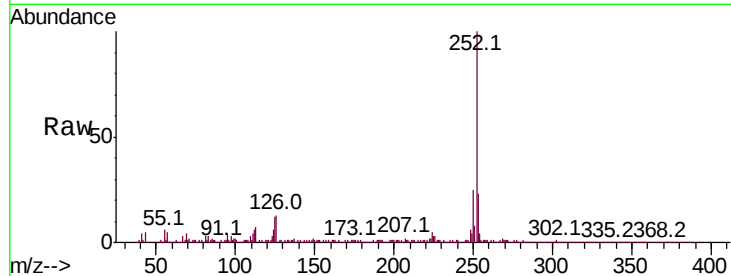




#88
Benzo(b)fluoranthene
Concen: 33.067 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

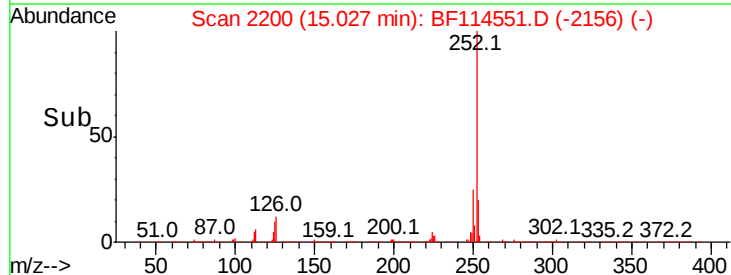
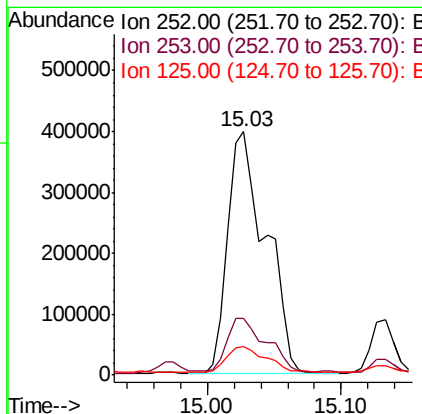
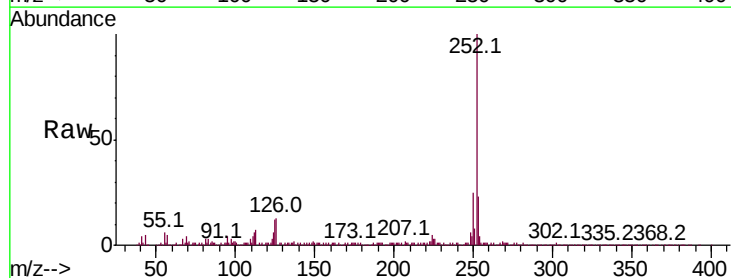
Instrument :
BNA_F
ClientSampleId :
COMP-20

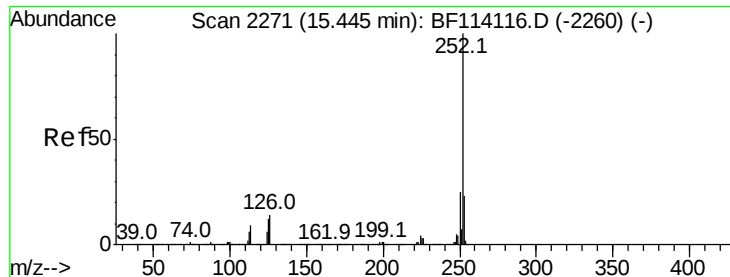
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	11.7	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 35.997 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.04 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	11.7	8.6	13.0

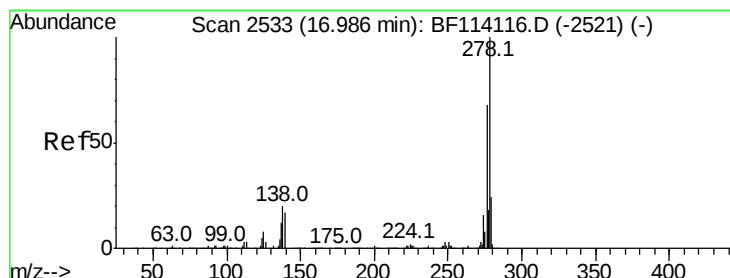
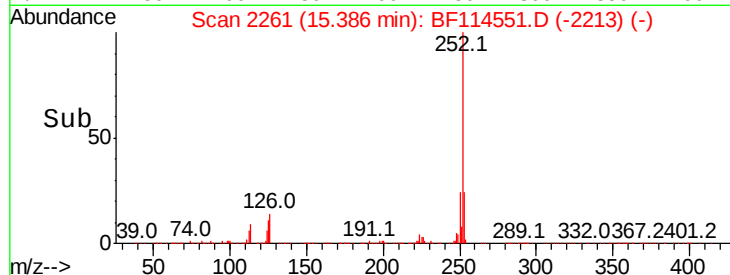
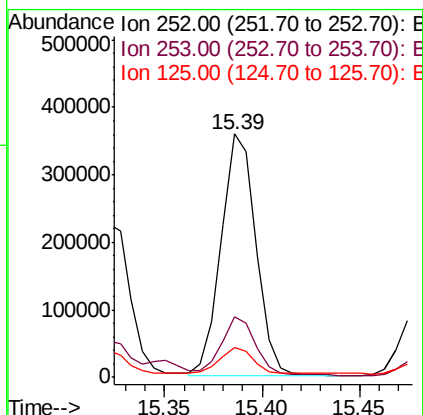
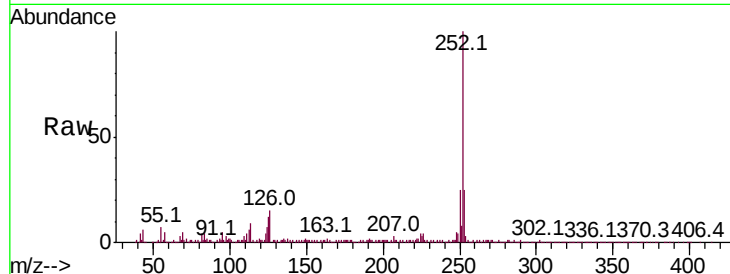




#90
Benzo(a)pyrene
Concen: 21.078 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.02 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

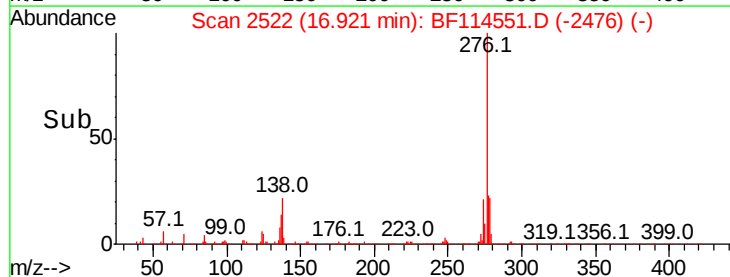
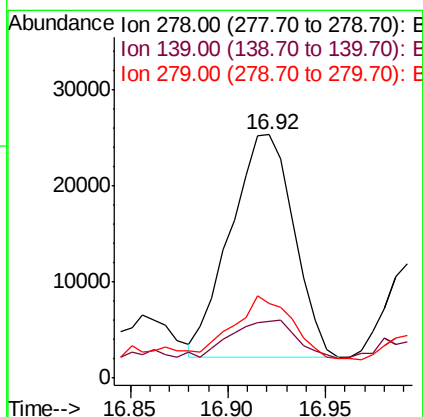
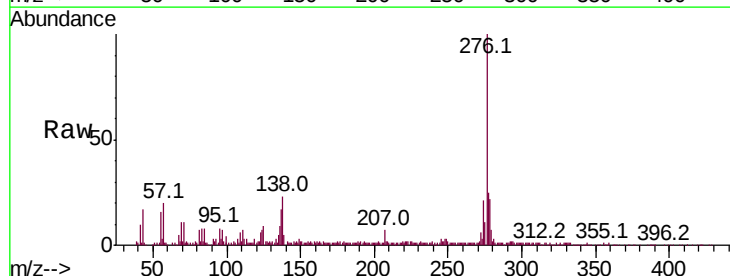
Instrument :
BNA_F
ClientSampleId :
COMP-20

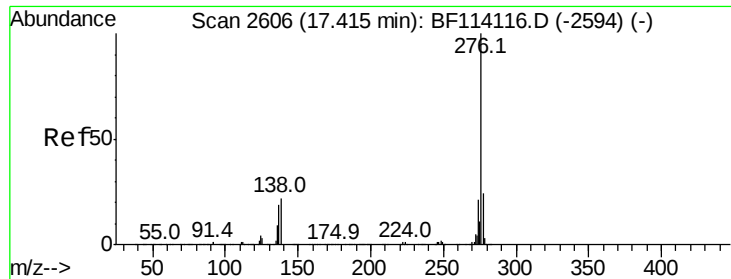
Tot Ion:252 Resp: 446021
Ion Ratio Lower Upper
252 100
253 25.0 18.1 27.1
125 12.5 9.5 14.3



#91
Dibenzo(a,h)anthracene
Concen: 2.978 ng
RT: 16.92 min Scan# 2522
Delta R.T. -0.03 min
Lab File: BF114551.D
Acq: 24 May 2019 3:45

Tgt Ion:278 Resp: 52360
Ion Ratio Lower Upper
278 100
139 23.4 13.5 20.3#
279 30.9 19.0 28.6#





#92
 Benzo(a,h,i)perylene
 Concen: 10.806 ng
 RT: 17.37 min Scan# 2598
 Delta R.T. -0.02 min
 Lab File: BF114551.D
 Acq: 24 May 2019 3:45

Instrument :
 BNA_F
 ClientSampleId :
 COMP-20

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	25.2	19.0	28.4	
138	21.0	17.8	26.6	

