

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
 Data File : BF114555.D
 Acq On : 24 May 2019 5:31
 Operator : JU/SJ
 Sample : K2994-15 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 24 07:23:30 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

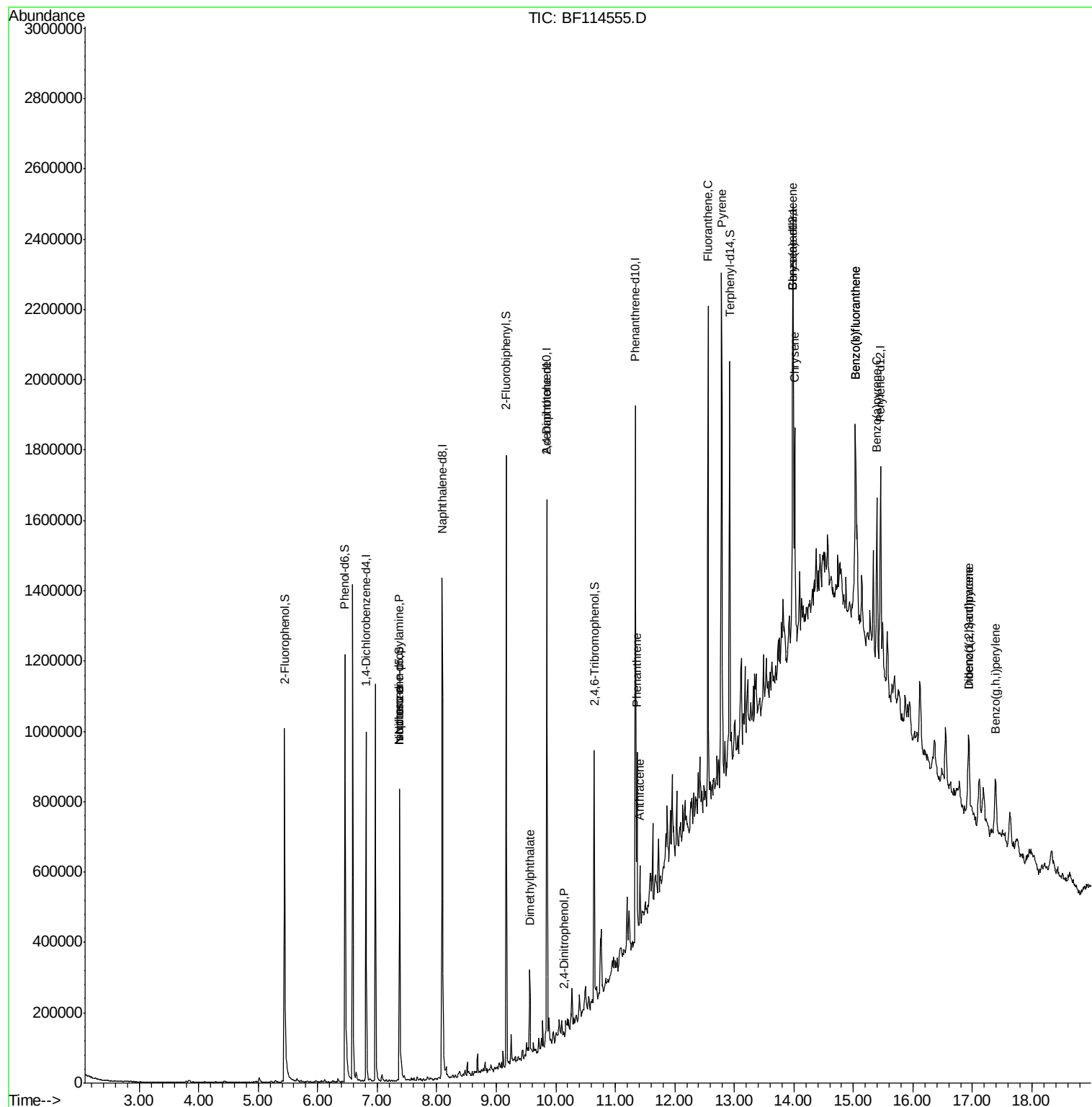
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	163059	20.00	ng	-0.02
21) Naphthalene-d8	8.09	136	632461	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	296327	20.00	ng	-0.02
64) Phenanthrene-d10	11.34	188	521151	20.00	ng	-0.02
76) Chrysene-d12	13.99	240	340727	20.00	ng	-0.02
87) Perylene-d12	15.46	264	272661	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	354811	35.02	ng	-0.03
7) Phenol-d6	6.46	99	470601	39.27	ng	-0.03
23) Nitrobenzene-d5	7.37	82	263594	23.39	ng	-0.03
42) 2,4,6-Tribromophenol	10.65	330	91224	29.78	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	485812	24.80	ng	-0.02
79) Terphenyl-d14	12.92	244	386970	23.41	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.37	70	35014	4.609	ng	# 77
25) Isophorone	7.37	82	263593	12.612	ng	# 64
50) Dimethylphthalate	9.56	163	72586	3.337	ng	99
54) 2,4-Dinitrophenol	10.15	184	144	6.800	ng	# 18
57) 2,4-Dinitrotoluene	9.85	165	39149	5.978	ng	# 25
71) Phenanthrene	11.36	178	184789	7.288	ng	98
72) Anthracene	11.42	178	64406	2.529	ng	98
75) Fluoranthene	12.56	202	576396	21.111	ng	100
78) Pyrene	12.79	202	588139	21.457	ng	99
81) Benzo(a)anthracene	13.98	228	292431	13.269	ng	96
83) Chrysene	14.02	228	263192	12.183	ng	97
86) Indeno(1,2,3-cd)pyrene	16.94	276	131781	6.902	ng	95
88) Benzo(b)fluoranthene	15.03	252	403318	23.089	ng	# 87
89) Benzo(k)fluoranthene	15.03	252	403318	25.135	ng	# 88
90) Benzo(a)pyrene	15.40	252	232010	15.092	ng	96
91) Dibenzo(a,h)anthracene	16.93	278	30621	2.397	ng	# 65
92) Benzo(a,h,i)perylene	17.39	276	139618	10.906	ng	96

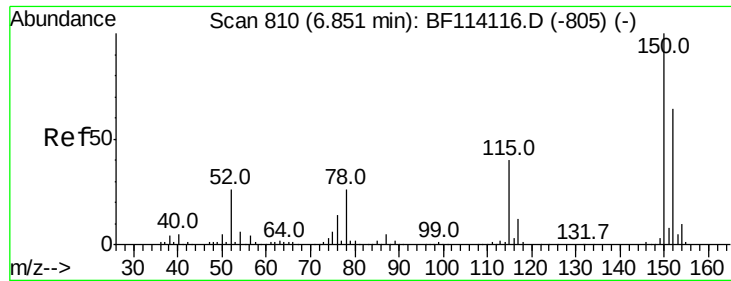
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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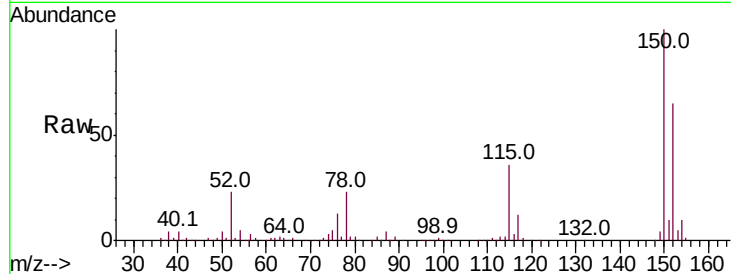


#1

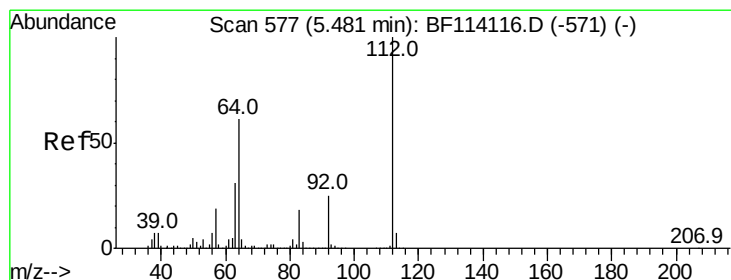
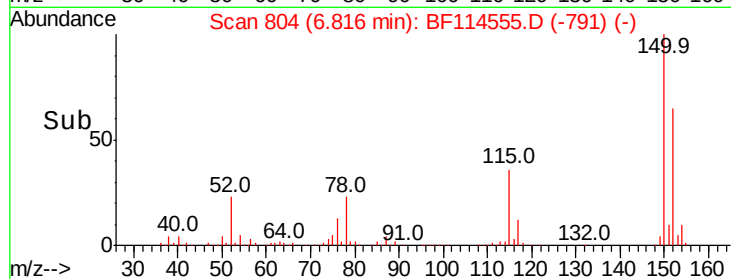
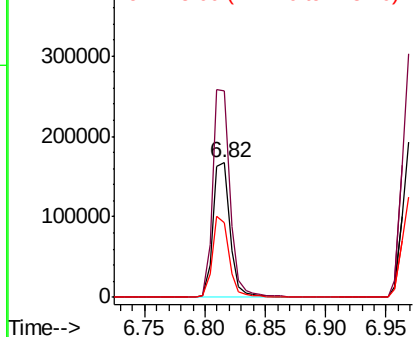
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 163059
Ion Ratio Lower Upper
152 100
150 153.1 124.3 186.5
115 55.4 49.1 73.7



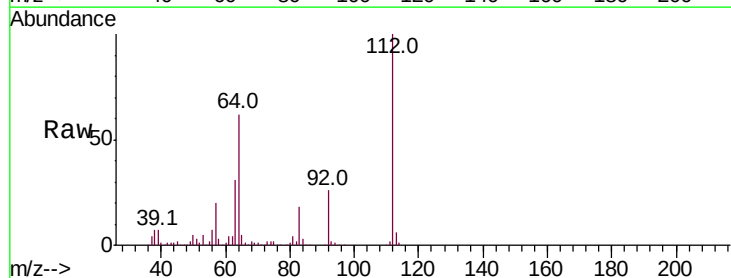
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



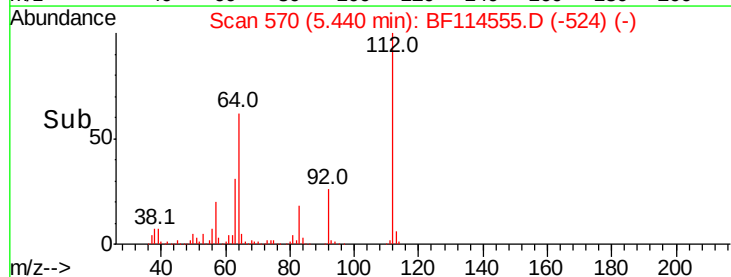
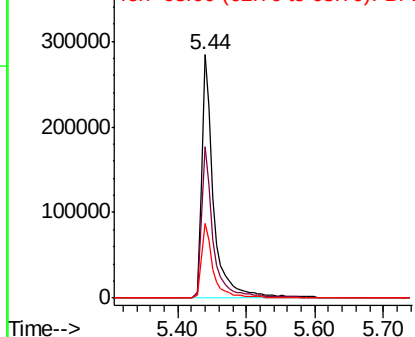
#5

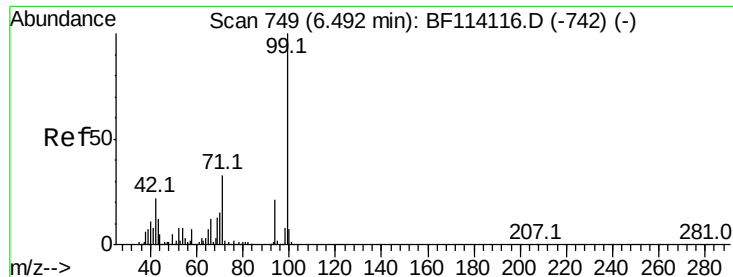
2-Fluorophenol
Concen: 35.017 ng
RT: 5.44 min Scan# 570
Delta R.T. -0.03 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Tgt Ion:112 Resp: 354811
Ion Ratio Lower Upper
112 100
64 62.4 49.0 73.6
63 30.6 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: 39.269 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Instrument :

BNA_F

ClientSampled :

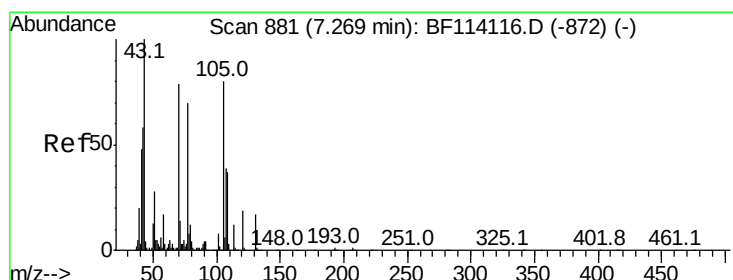
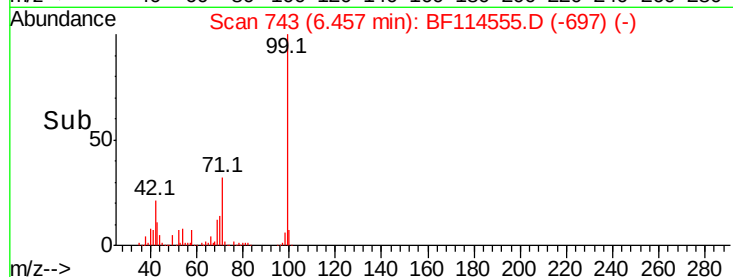
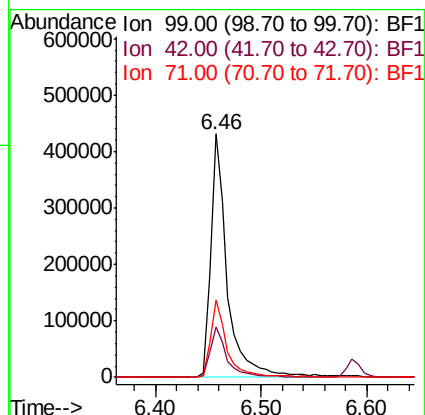
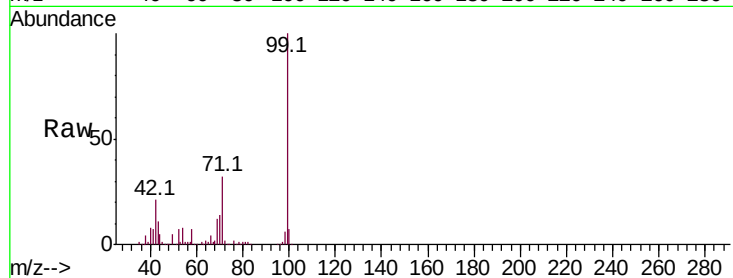
Tot Ion: 99 Resp: 470601

Ion Ratio Lower Upper

99 100

42 20.7 17.9 26.9

71 31.5 26.2 39.2



#19

n-Nitroso-di-n-propylamine

Concen: 4.609 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.12 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Tgt Ion: 70 Resp: 35014

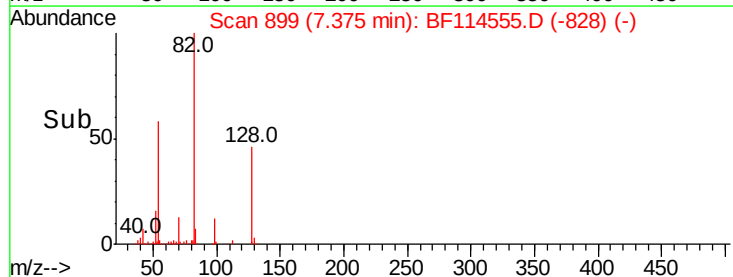
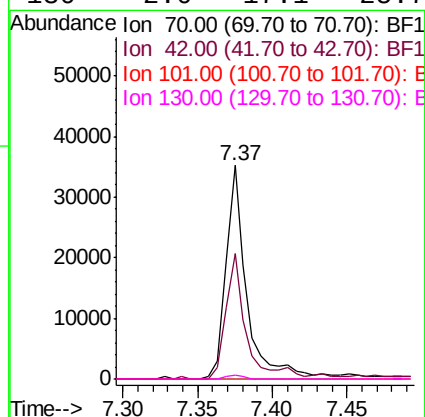
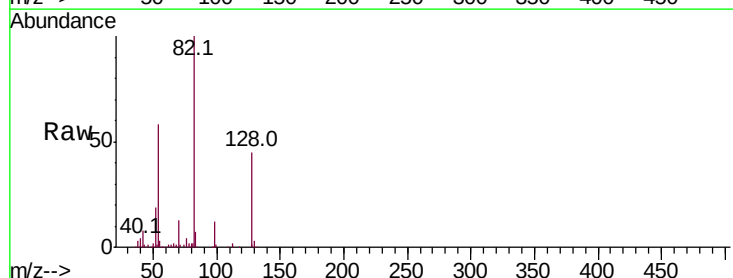
Ion Ratio Lower Upper

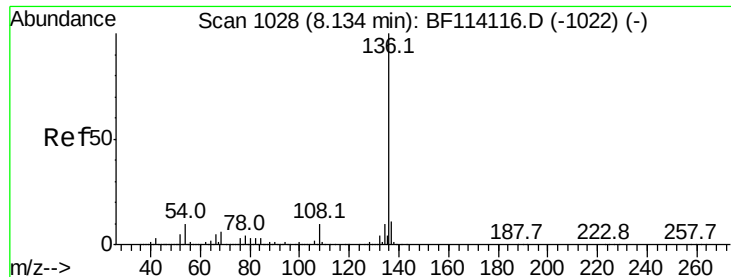
70 100

42 58.6 58.6 87.8

101 0.0 7.8 11.8#

130 2.0 17.1 25.7#

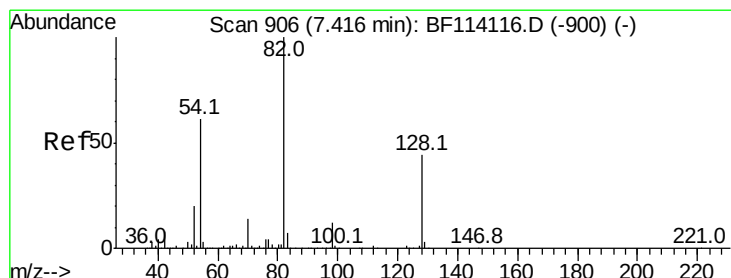
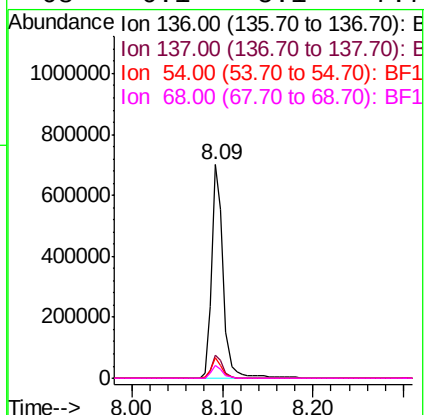
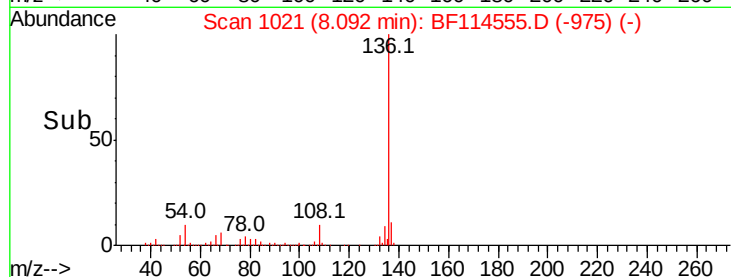
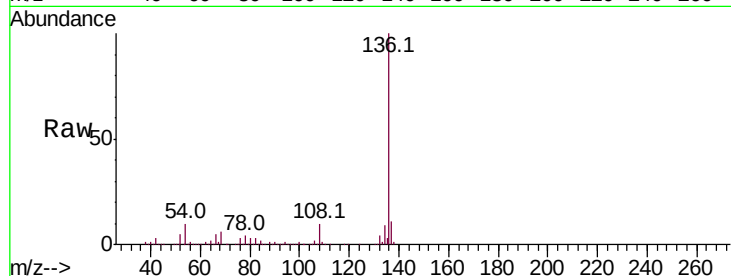




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.03 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

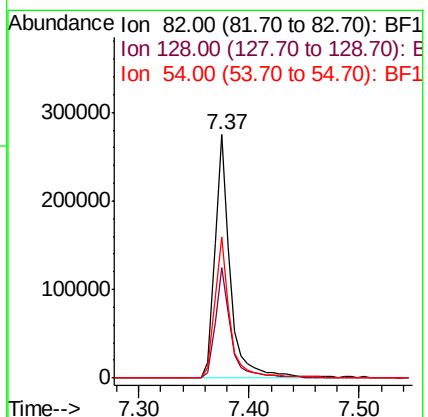
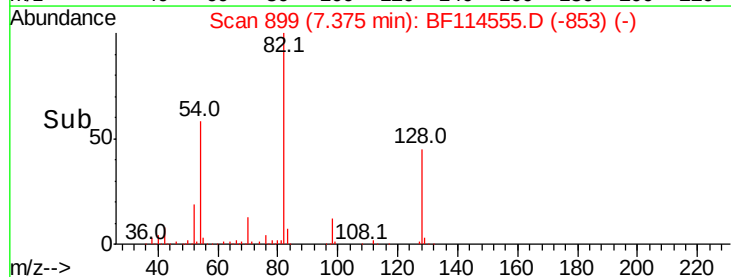
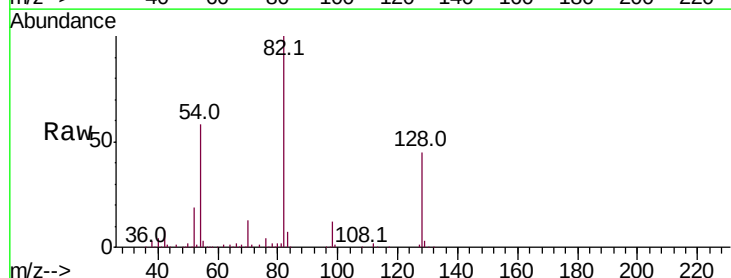
Instrument :
BNA_F
ClientSampleId :

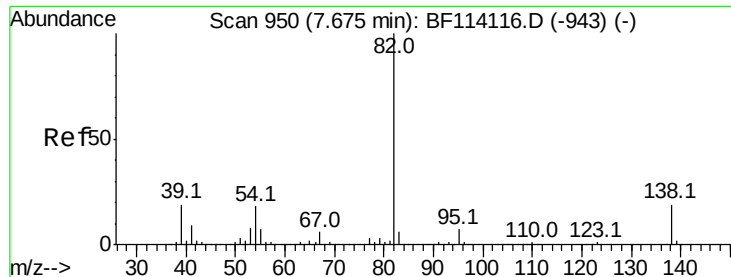
Tot Ion:136	Resp: 632461
Ion Ratio	Lower Upper
136 100	
137 11.0	8.8 13.2
54 9.7	7.8 11.8
68 6.1	5.1 7.7



#23
Nitrobenzene-d5
Concen: 23.389 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.03 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Tgt	Ion: 82	Resp:	263594
Ion	Ratio	Lower	Upper
82	100		
128	45.5	35.5	53.3
54	58.2	48.5	72.7

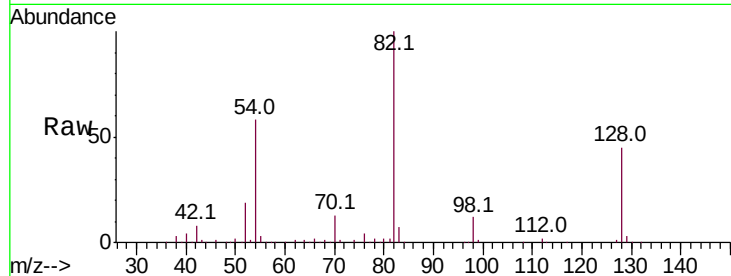




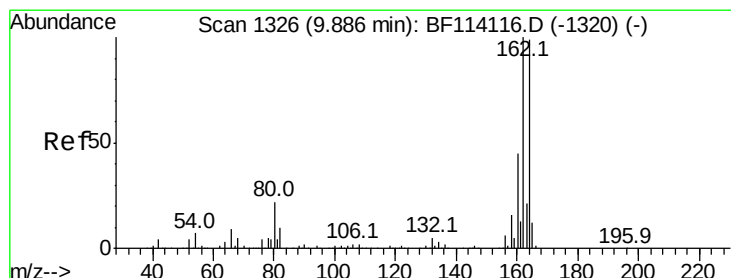
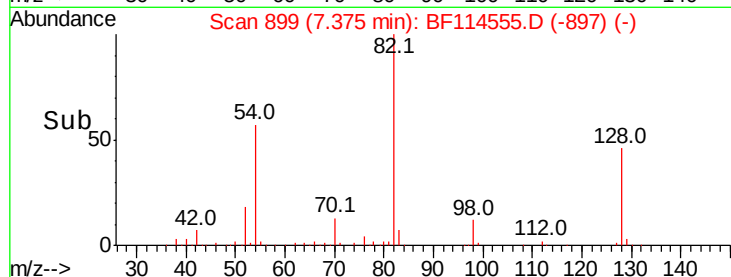
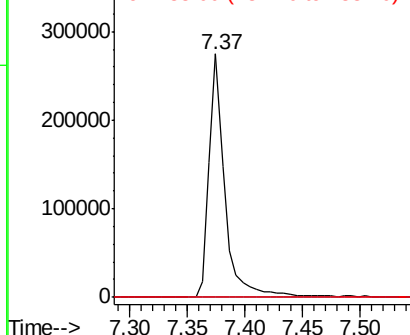
#25
Isophorone
Concen: 12.612 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.29 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 263593
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.8 22.2#

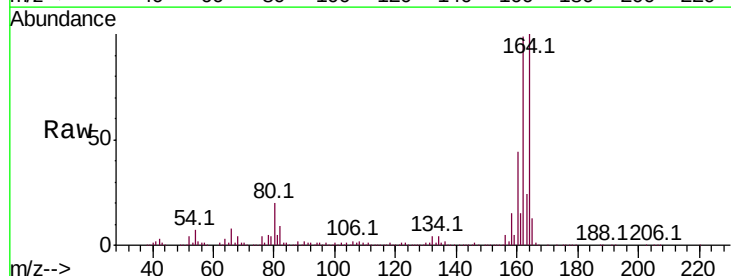


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

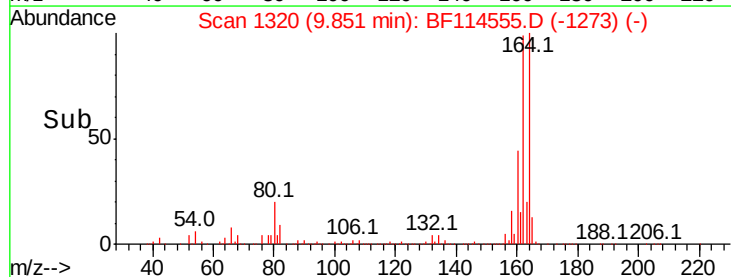
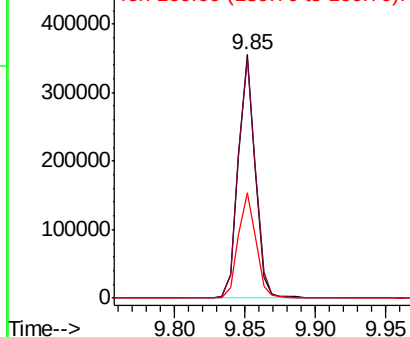


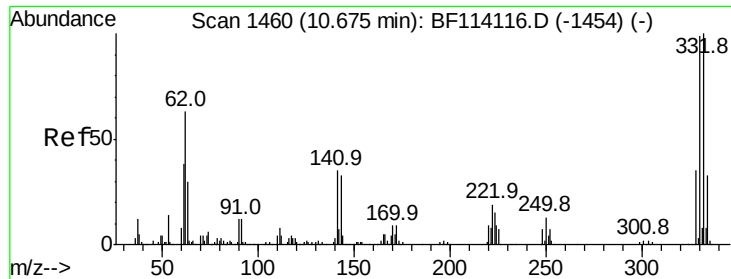
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Tgt Ion:164 Resp: 296327
Ion Ratio Lower Upper
164 100
162 98.6 80.6 120.8
160 43.5 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

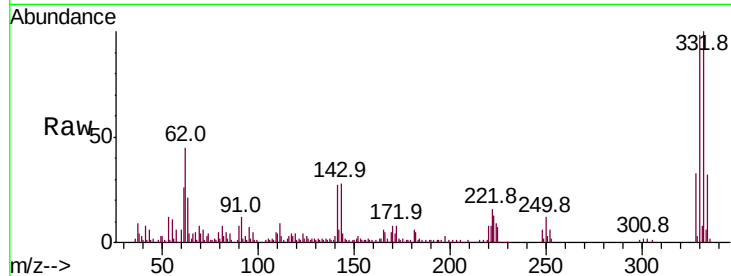




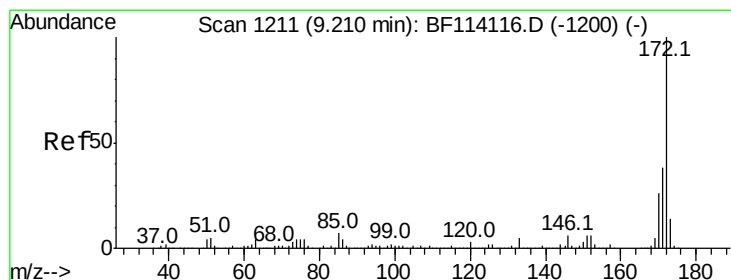
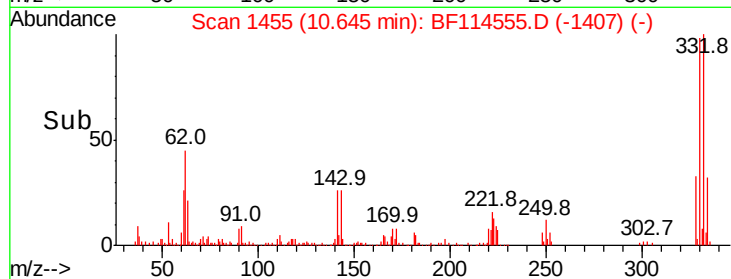
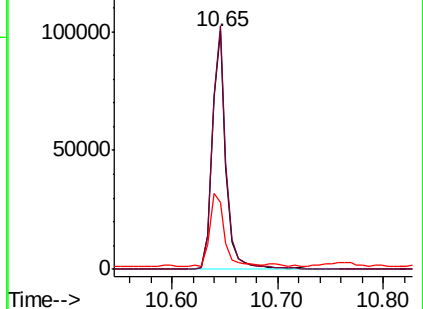
#42
 2,4,6-Tribromophenol
 Concen: 29.777 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. -0.02 min
 Lab File: BF114555.D
 Acq: 24 May 2019 5:31

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 91224
 Ion Ratio Lower Upper
 330 100
 332 101.9 81.4 122.2
 141 33.5 26.6 40.0

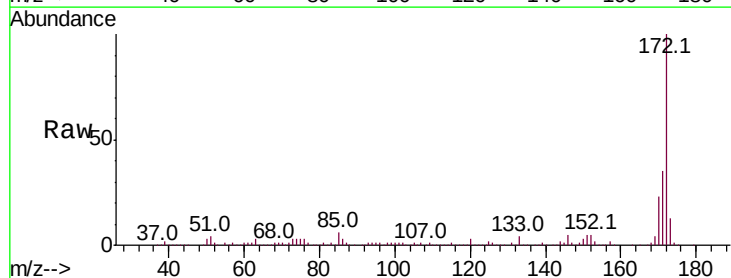


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

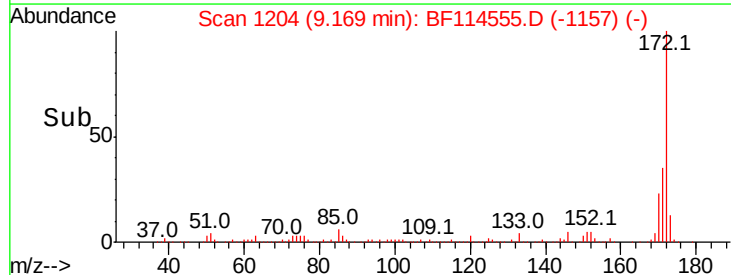
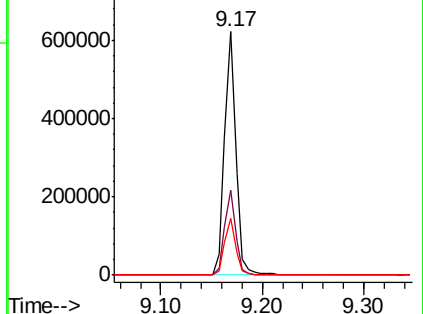


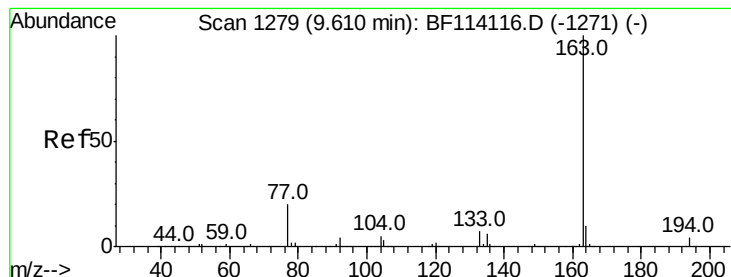
#45
 2-Fluorobiphenyl
 Concen: 24.799 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF114555.D
 Acq: 24 May 2019 5:31

Tgt Ion:172 Resp: 485812
 Ion Ratio Lower Upper
 172 100
 171 34.8 30.7 46.1
 170 23.2 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: 3.337 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.03 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Instrument :

BNA_F

ClientSampleId :

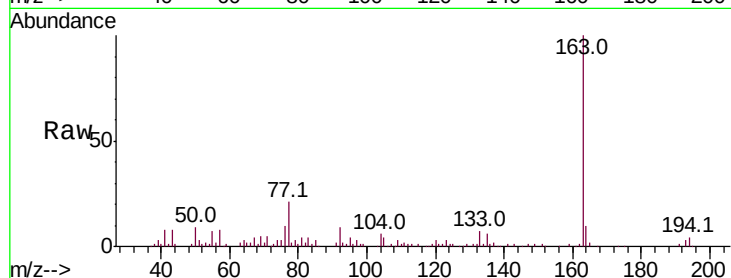
Tot Ion:163 Resp: 72586

Ion Ratio Lower Upper

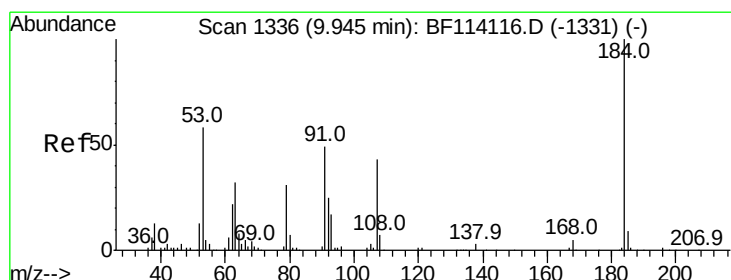
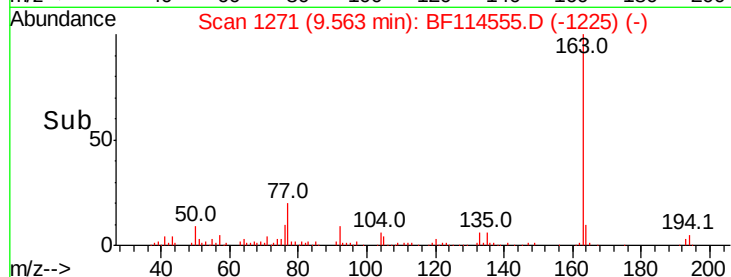
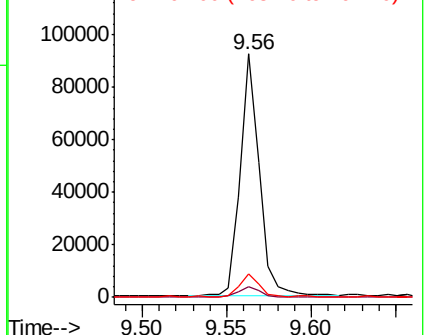
163 100

194 4.5 3.4 5.0

164 9.8 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



#54

2,4-Dinitrophenol

Concen: 6.800 ng

RT: 10.15 min Scan# 1370

Delta R.T. 0.19 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

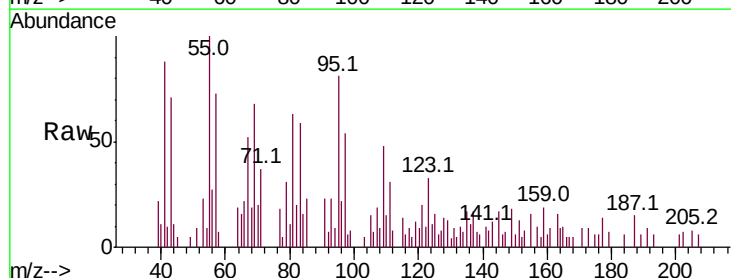
Tgt Ion:184 Resp: 144

Ion Ratio Lower Upper

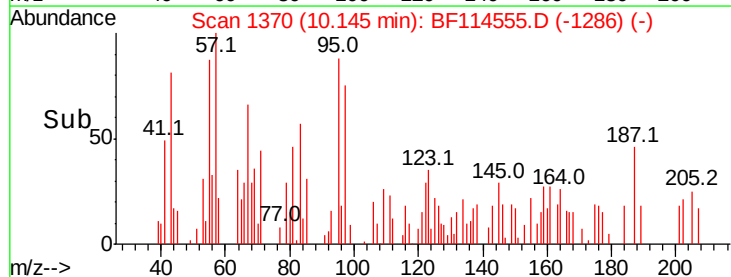
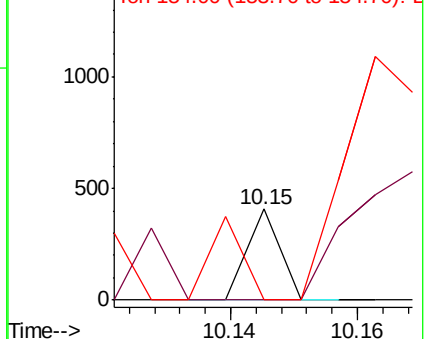
184 100

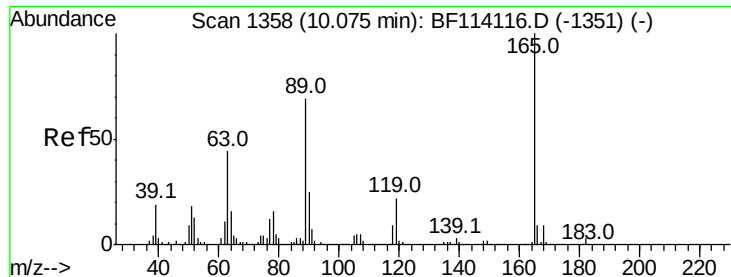
63 0.0 55.6 83.4#

154 0.0 46.0 69.0#



Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 154.00 (153.70 to 154.70): E





#57

2,4-Dinitrotoluene

Concen: 5.978 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.22 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 39149

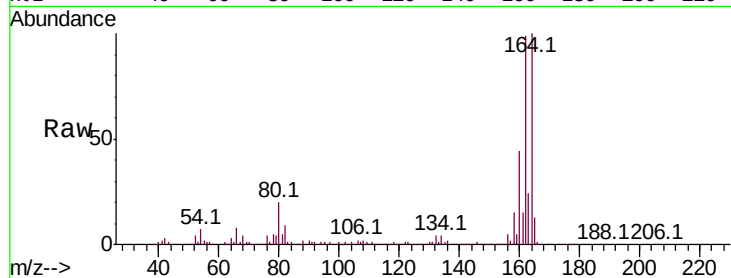
Ion Ratio Lower Upper

165 100

63 1.3 35.5 53.3#

89 1.3 55.2 82.8#

182 0.0 2.2 3.2#

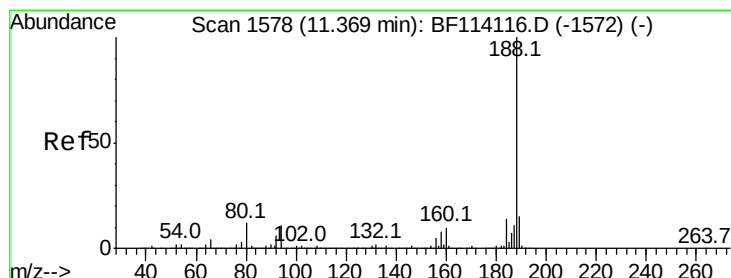
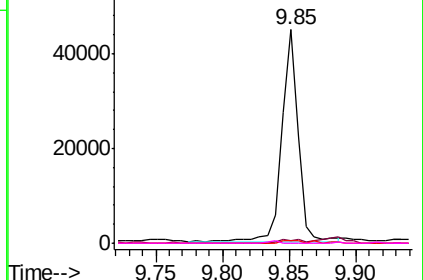
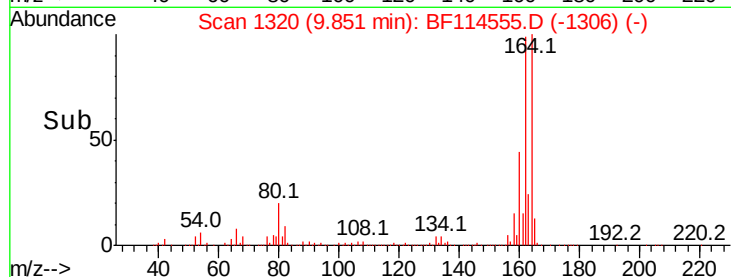


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.34 min Scan# 1573

Delta R.T. -0.02 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

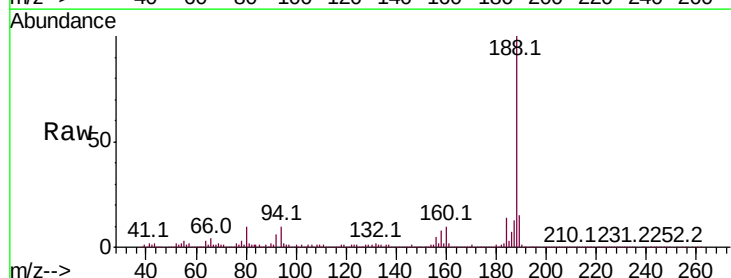
Tgt Ion:188 Resp: 521151

Ion Ratio Lower Upper

188 100

94 9.8 8.4 12.6

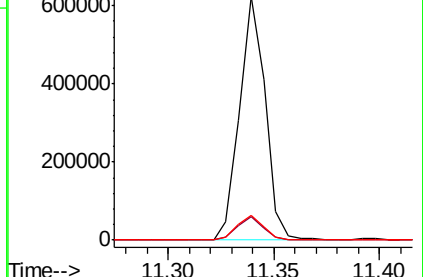
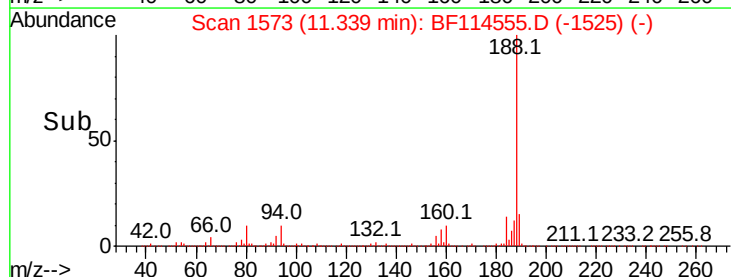
80 10.2 9.2 13.8

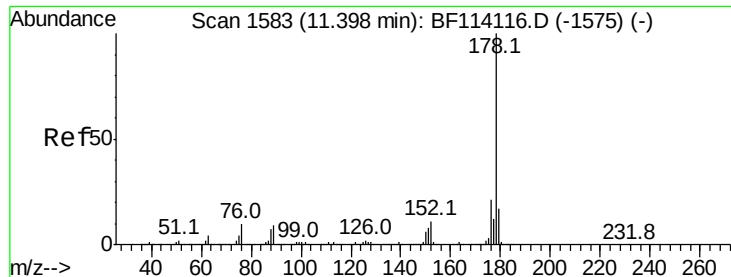


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

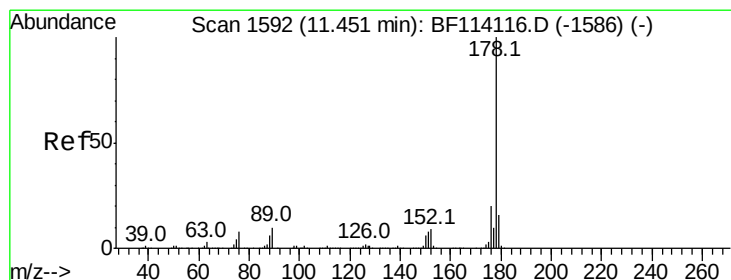
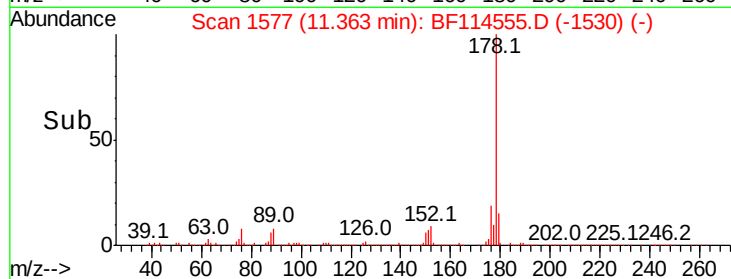
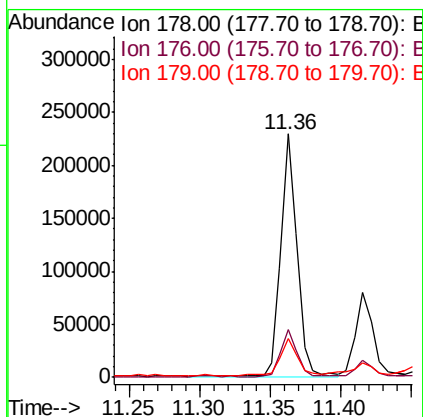
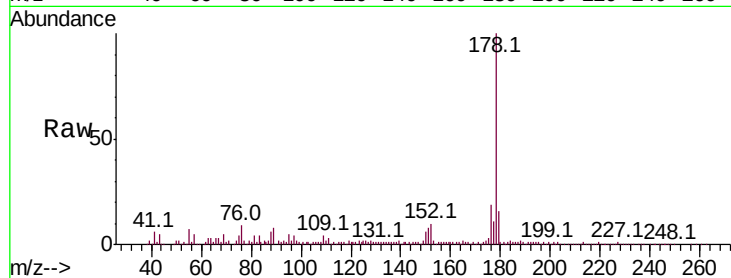




#71
Phenanthrene
Concen: 7.288 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

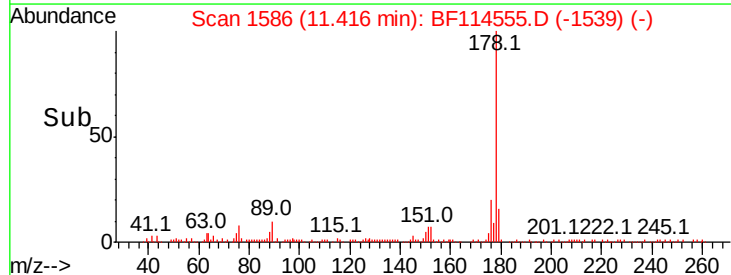
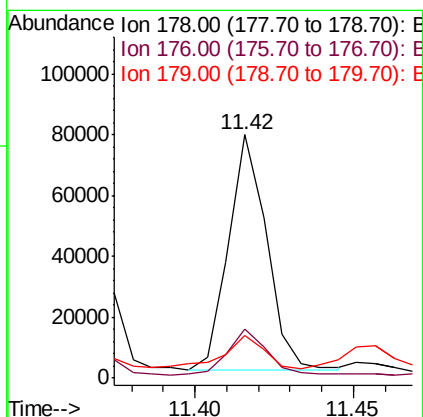
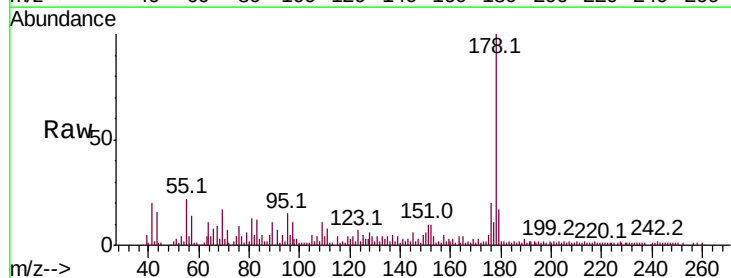
Instrument :
BNA_F
ClientSampleId :

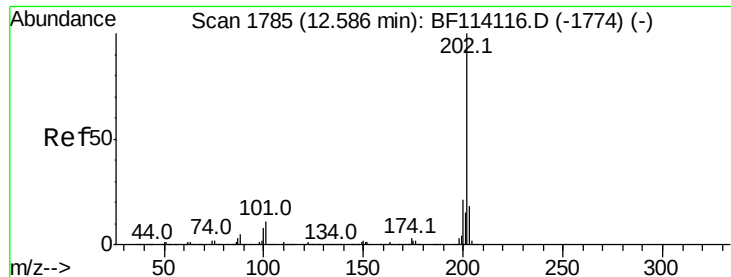
Tot Ion:178 Resp: 184789
Ion Ratio Lower Upper
178 100
176 19.4 16.4 24.6
179 16.0 13.2 19.8



#72
Anthracene
Concen: 2.529 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.02 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Tgt Ion:178 Resp: 64406
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 17.3 13.0 19.4





#75

Fluoranthene

Concen: 21.111 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.02 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Instrument :

BNA_F

ClientSampleId :

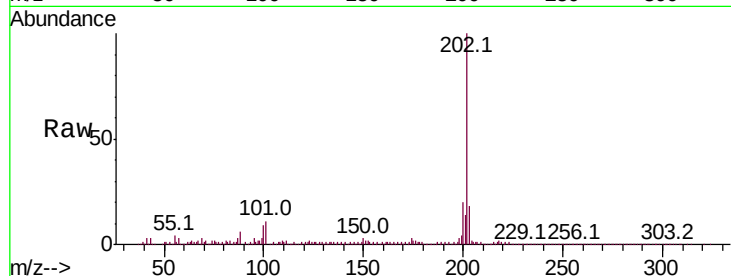
Tot Ion:202 Resp: 576396

Ion Ratio Lower Upper

202 100

101 11.1 0.0 31.0

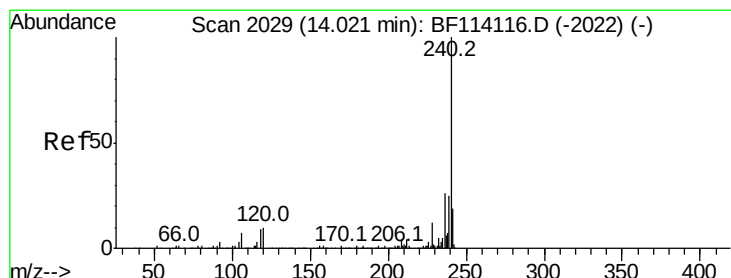
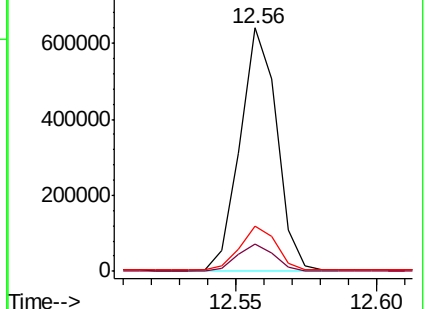
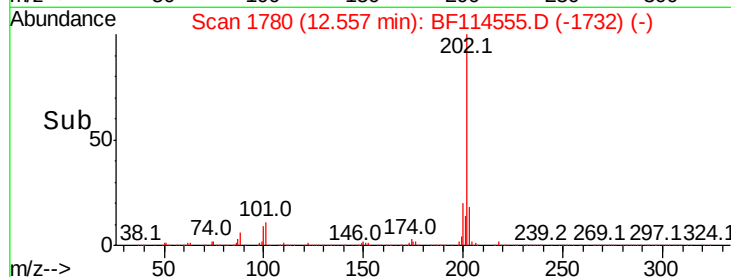
203 18.4 0.0 38.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.02 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

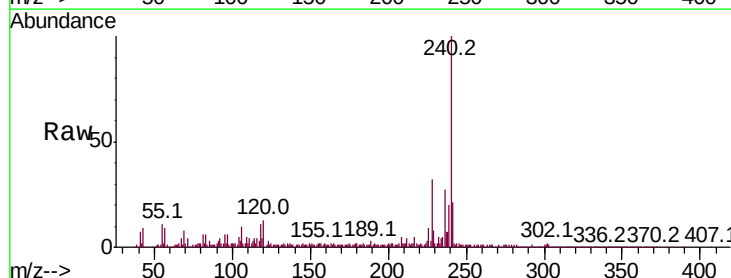
Tgt Ion:240 Resp: 340727

Ion Ratio Lower Upper

240 100

120 13.1 8.3 12.5#

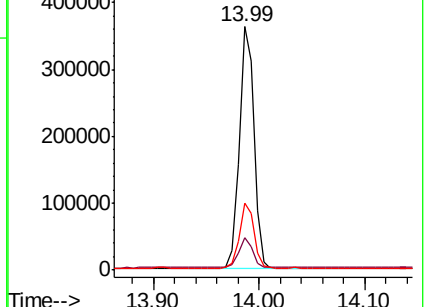
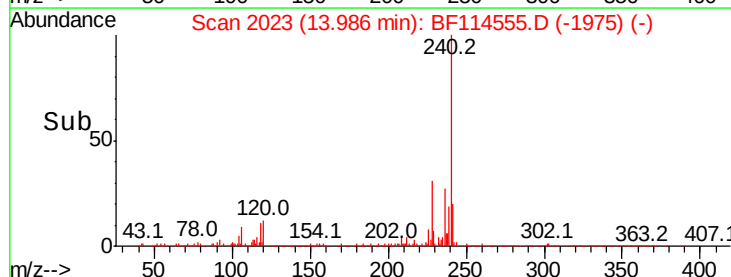
236 27.3 20.8 31.2

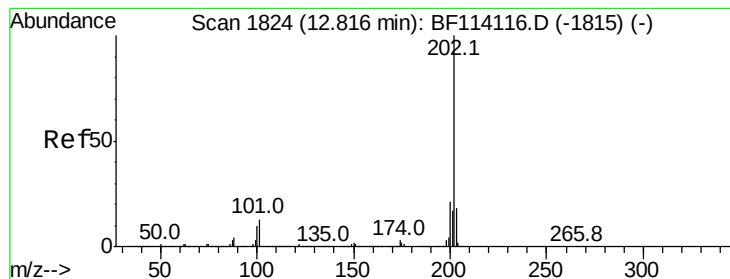


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 21.457 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.02 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Instrument :

BNA_F

ClientSampleId :

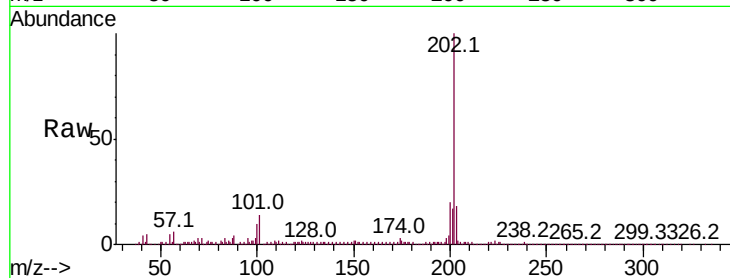
Tot Ion:202 Resp: 588139

Ion Ratio Lower Upper

202 100

200 20.1 16.9 25.3

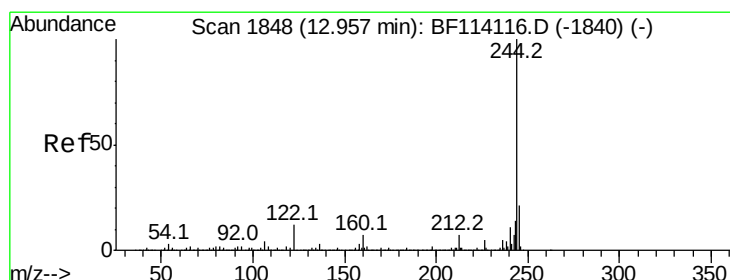
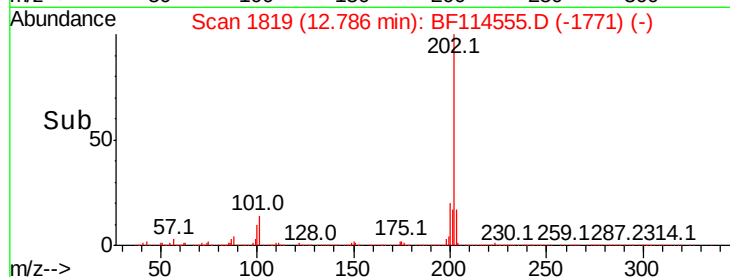
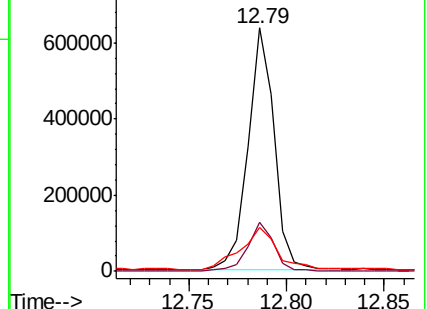
203 18.1 14.5 21.7



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: 23.412 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.02 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

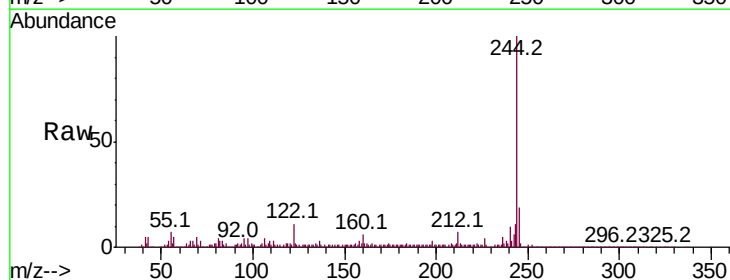
Tgt Ion:244 Resp: 386970

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

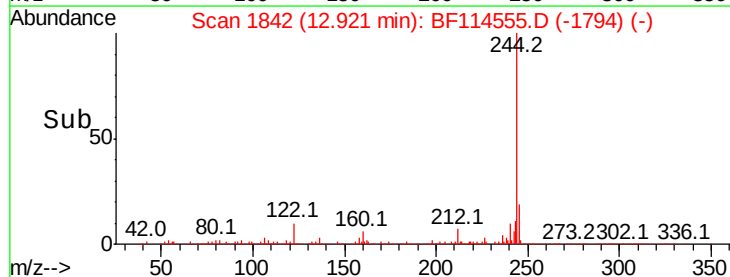
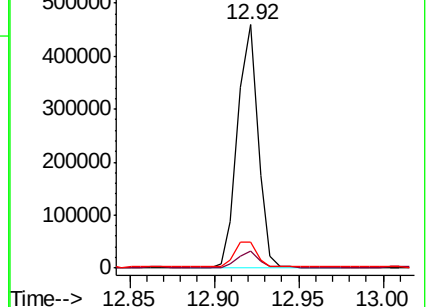
122 10.8 9.4 14.2

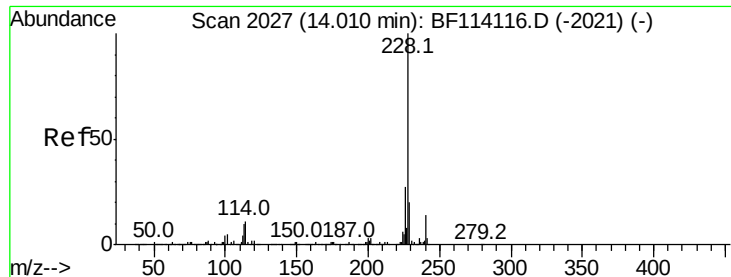


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 13.269 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

Instrument :

BNA_F

ClientSampleId :

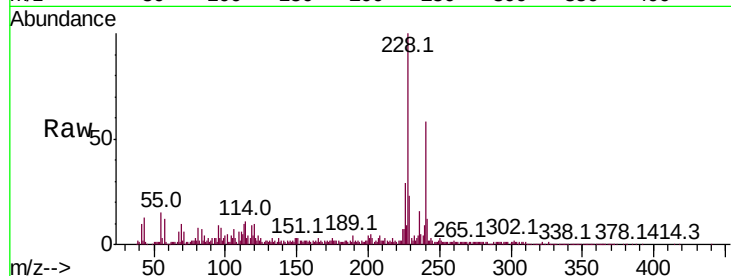
Tot Ion:228 Resp: 292431

Ion Ratio Lower Upper

228 100

226 28.7 22.2 33.2

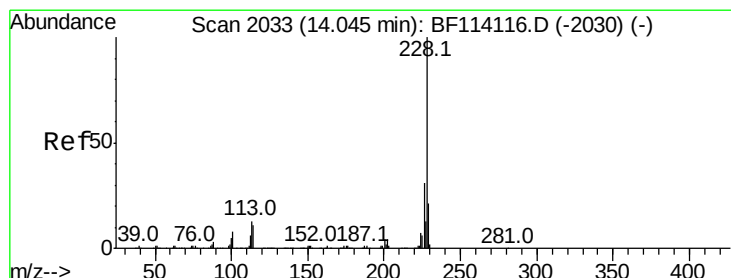
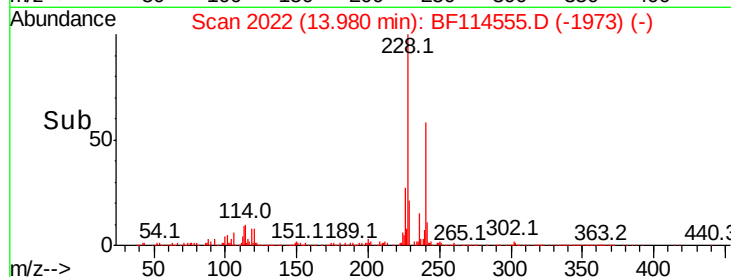
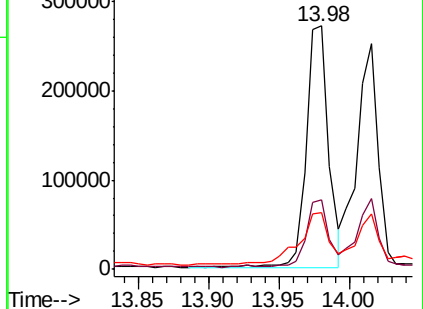
229 23.2 16.4 24.6



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: 12.183 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.02 min

Lab File: BF114555.D

Acq: 24 May 2019 5:31

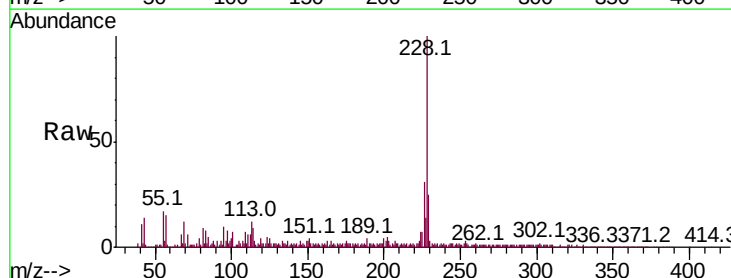
Tgt Ion:228 Resp: 263192

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

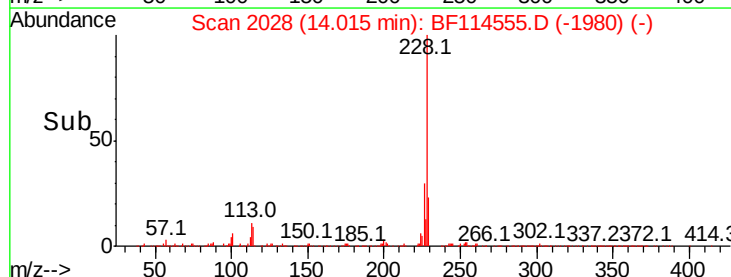
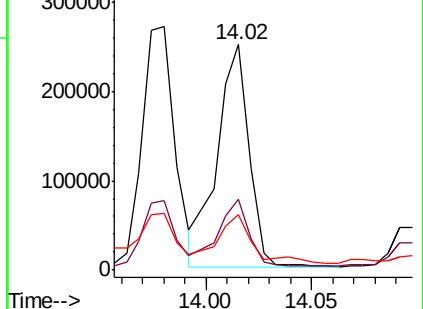
229 24.8 17.0 25.6

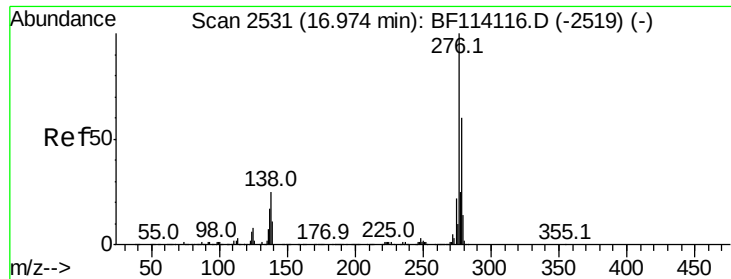


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

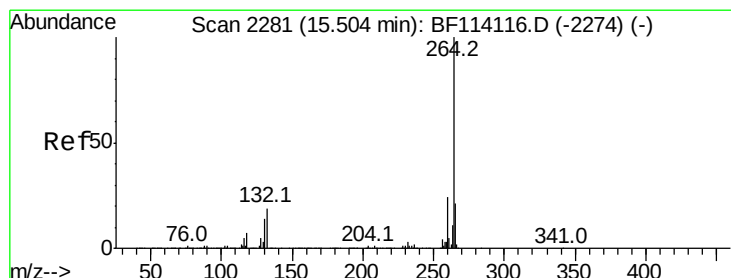
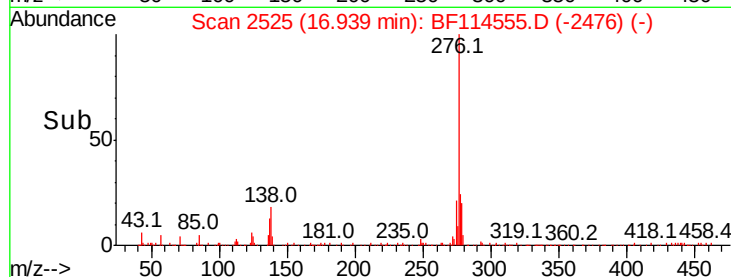
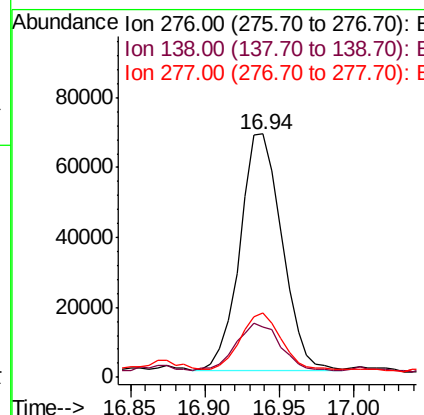
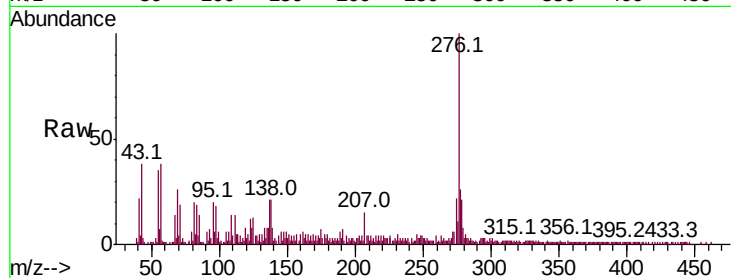




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.902 ng
 RT: 16.94 min Scan# 2525
 Delta R.T. -0.01 min
 Lab File: BF114555.D
 Acq: 24 May 2019 5:31

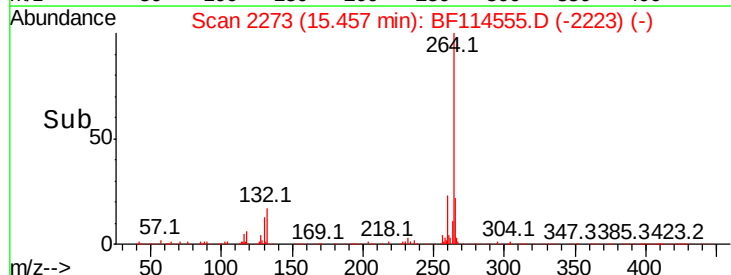
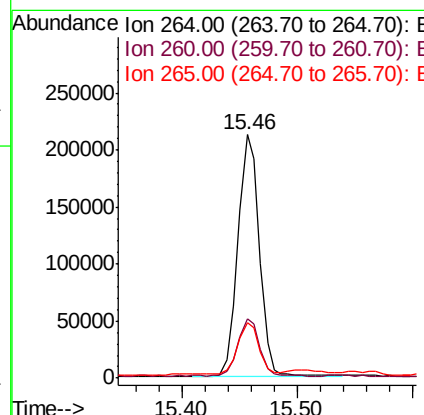
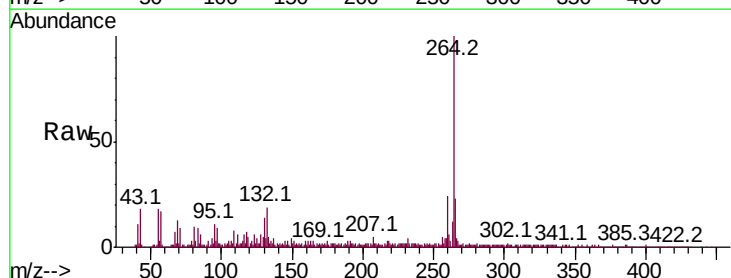
Instrument :
 BNA_F
 ClientSampleId :

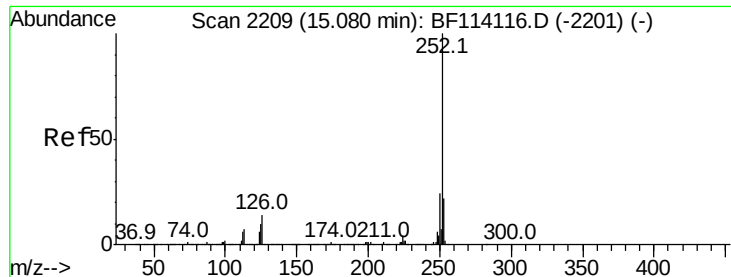
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.7	20.2	30.2
277	24.1	20.0	30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2273
 Delta R.T. -0.01 min
 Lab File: BF114555.D
 Acq: 24 May 2019 5:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.0
265	22.8	16.9	25.3

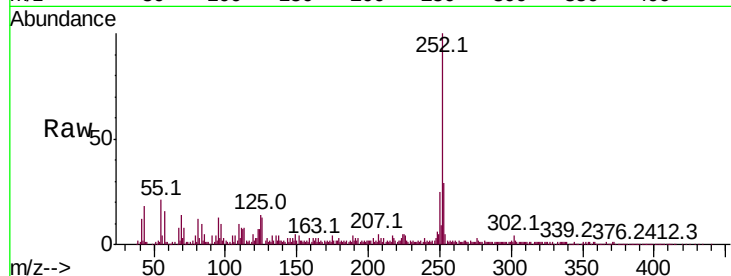




#88
Benzo(b)fluoranthene
Concen: 23.089 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	29.0	17.8	26.8#
125	14.2	8.3	12.5#

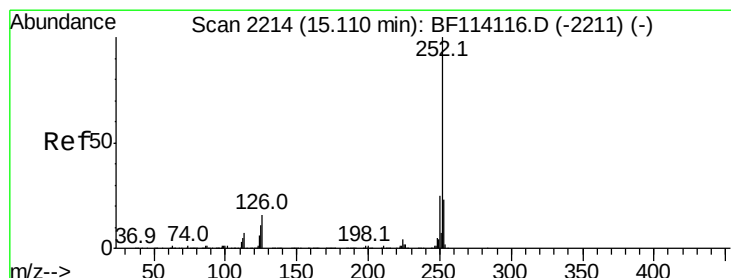
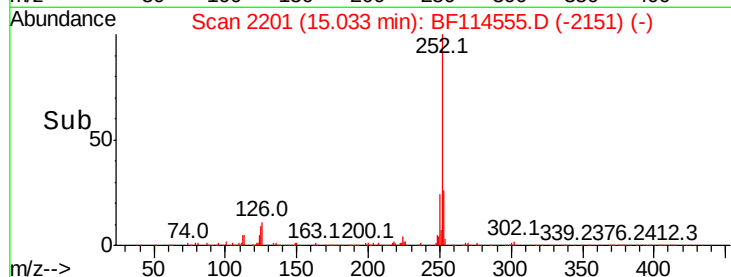
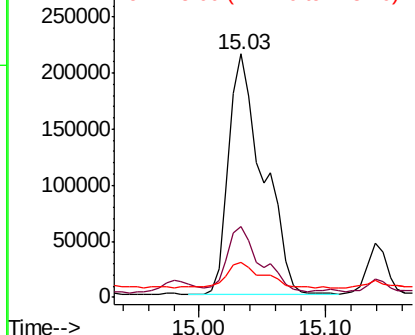


Abundance

Ion 252.00 (251.70 to 252.70): E

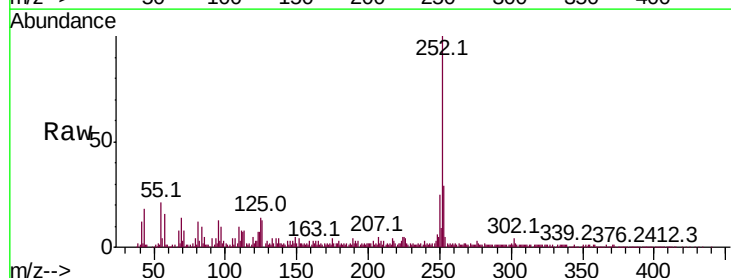
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 25.135 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.04 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.0	18.2	27.2#
125	14.2	8.6	13.0#

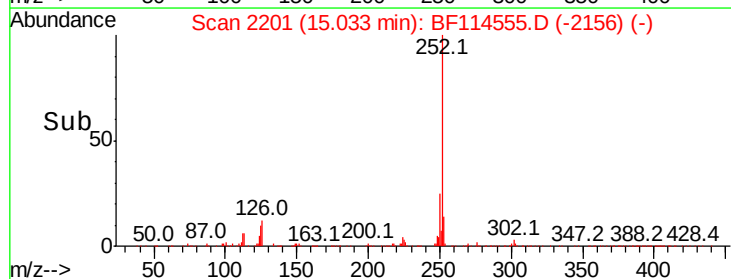
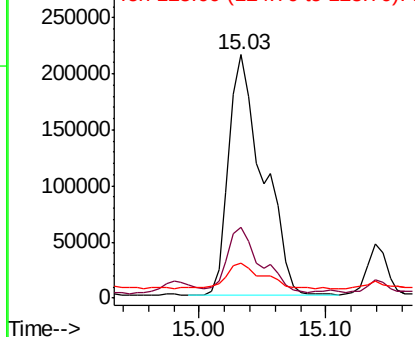


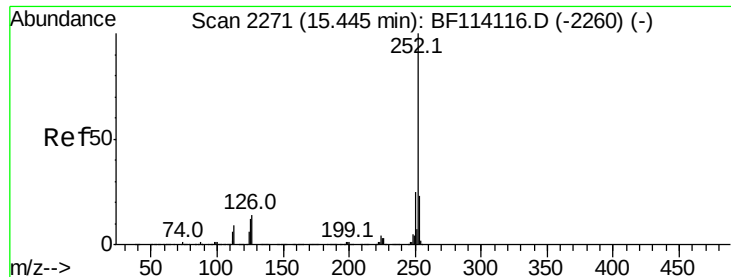
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

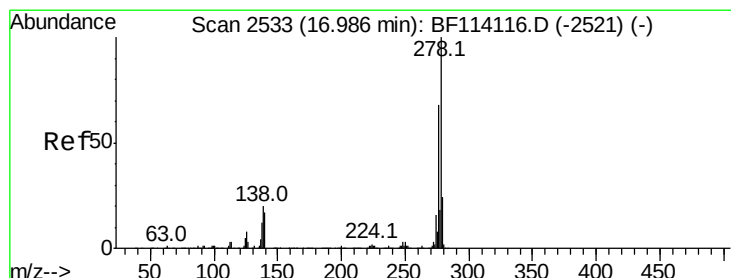
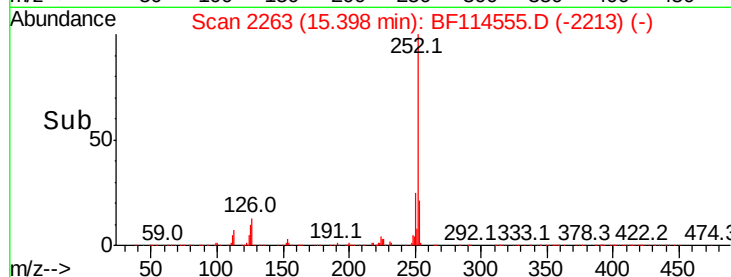
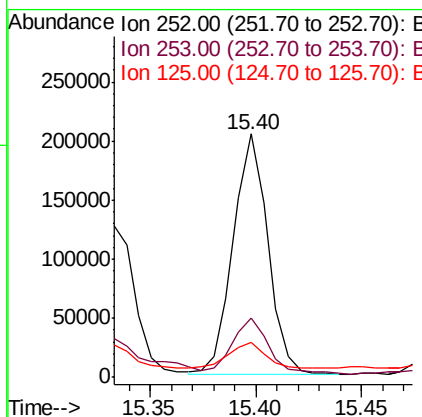
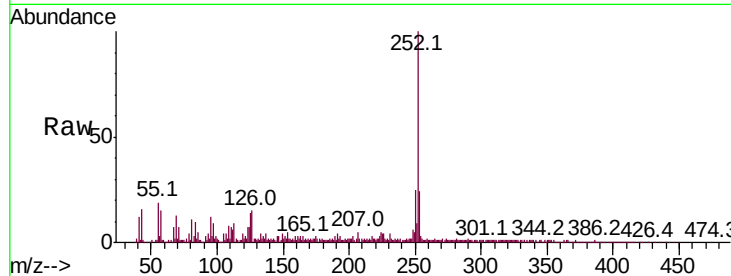




#90
Benzo(a)pyrene
Concen: 15.092 ng
RT: 15.40 min Scan# 2263
Delta R.T. -0.01 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

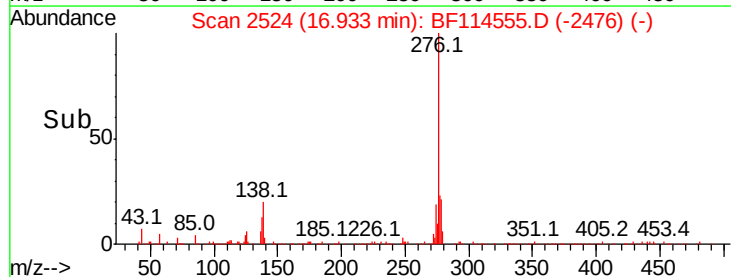
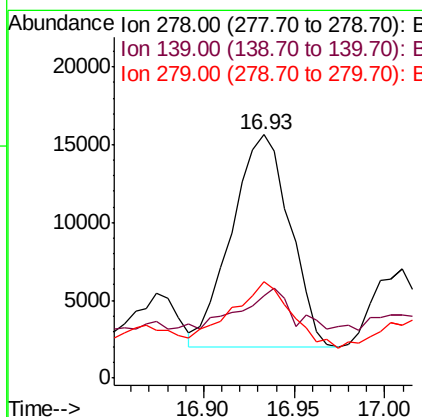
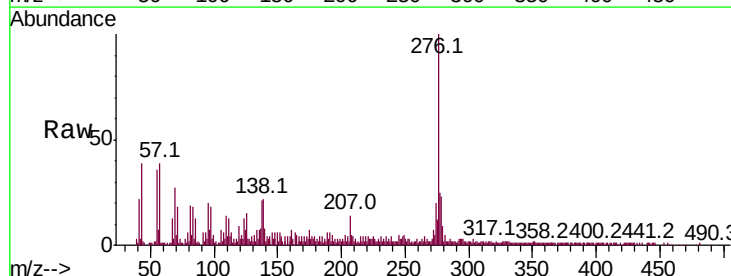
Instrument :
BNA_F
ClientSampled :

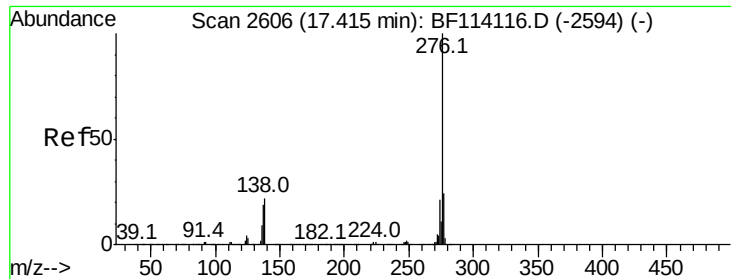
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	14.2	9.5	14.3



#91
Dibenzo(a,h)anthracene
Concen: 2.397 ng
RT: 16.93 min Scan# 2524
Delta R.T. -0.02 min
Lab File: BF114555.D
Acq: 24 May 2019 5:31

Tgt Ion	Ratio	Lower	Upper
278	100		
139	34.0	13.5	20.3#
279	39.5	19.0	28.6#

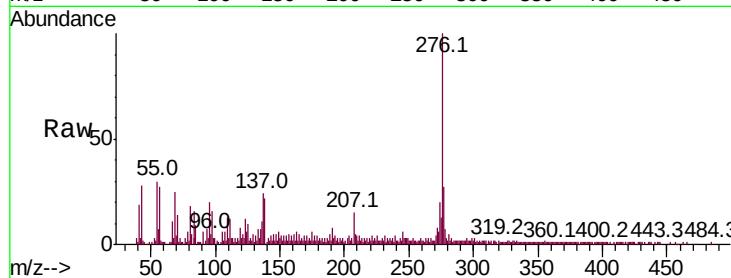




#92
 Benzo(a,h,i)perylene
 Concen: 10.906 ng
 RT: 17.39 min Scan# 2601
 Delta R.T. 0.00 min
 Lab File: BF114555.D
 Acq: 24 May 2019 5:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	27.2	19.0	28.4	
138	22.3	17.8	26.6	



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

