

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022019\
 Data File : BF112643.D
 Acq On : 20 Feb 2019 15:51
 Operator : JU/SJ
 Sample : K1349-11 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 20 16:51:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	82604	20.00	ng	-0.02
21) Naphthalene-d8	8.10	136	338730	20.00	ng	-0.02
39) Acenaphthene-d10	9.86	164	160269	20.00	ng	-0.03
64) Phenanthrene-d10	11.35	188	276758	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	215769	20.00	ng	-0.01
87) Perylene-d12	15.47	264	222126	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	83998	21.60	ng	-0.01
7) Phenol-d6	6.49	99	112234	20.77	ng	0.00
23) Nitrobenzene-d5	7.39	82	71118	12.10	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	33814	18.13	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	164379	14.51	ng	-0.03
79) Terphenyl-d14	12.92	244	148851	12.99	ng	-0.03

Target Compounds

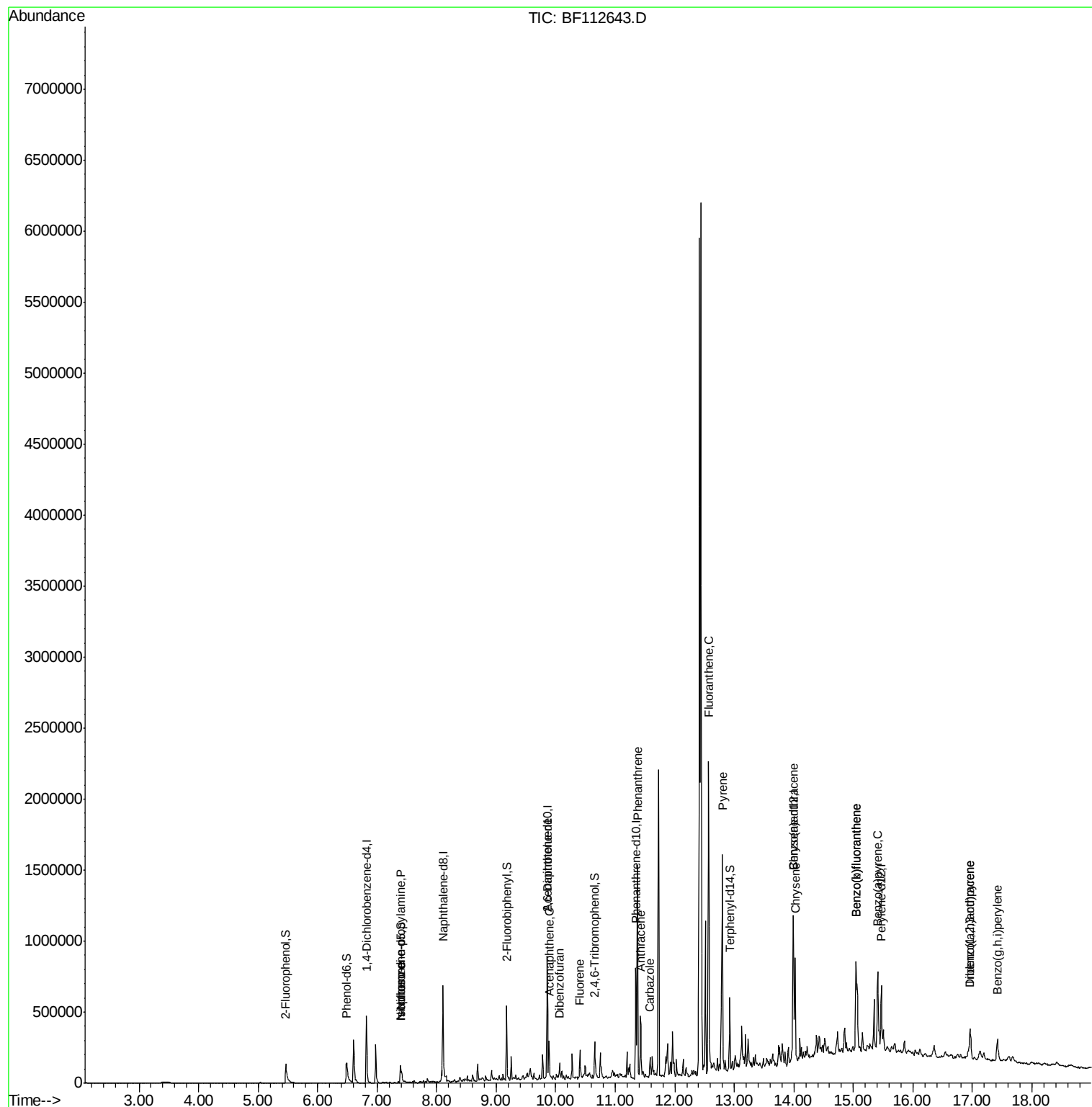
						Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	11670	3.132	ng	# 76
25) Isophorone	7.39	82	71118	7.711	ng	# 63
51) 2,6-Dinitrotoluene	9.86	165	22090	7.921	ng	# 35
52) Acenaphthene	9.89	154	58461	6.145	ng	97
55) Dibenzofuran	10.07	168	40809	2.807	ng	95
58) Fluorene	10.41	166	60796	5.588	ng	94
71) Phenanthrene	11.37	178	566394	39.365	ng	97
72) Anthracene	11.42	178	173242	12.087	ng	97
73) Carbazole	11.59	167	54392	3.847	ng	96
75) Fluoranthene	12.57	202	745855	48.331	ng	99
78) Pyrene	12.80	202	618513	41.404	ng	99
81) Benzo(a)anthracene	13.99	228	333547	26.297	ng	99
83) Chrysene	14.02	228	250952	20.727	ng	97
86) Indeno(1,2,3-cd)pyrene	16.96	276	135704	14.145	ng	# 91
88) Benzo(b)fluoranthene	15.04	252	476201	35.847	ng	99
89) Benzo(k)fluoranthene	15.04	252	476201	37.425	ng	99
90) Benzo(a)pyrene	15.41	252	260595	21.802	ng	99
91) Dibenzo(a,h)anthracene	16.95	278	34210	3.551	ng	# 94
92) Benzo(a,h,i)perylene	17.42	276	119270	13.123	ng	97

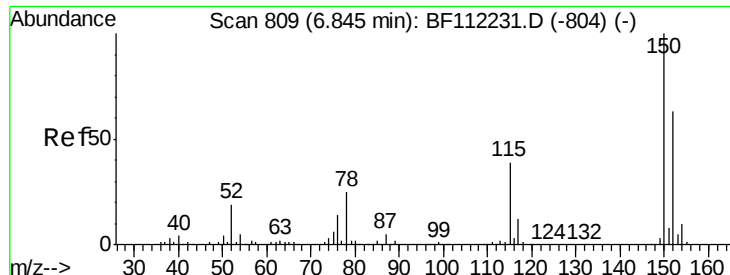
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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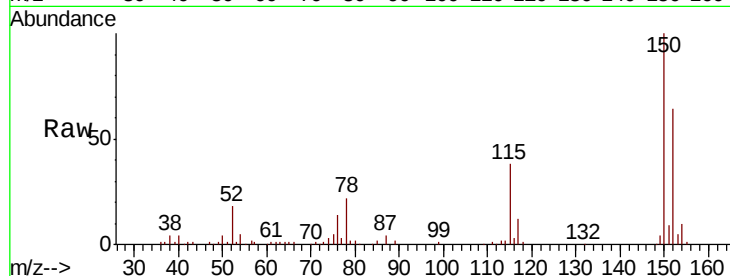


#1

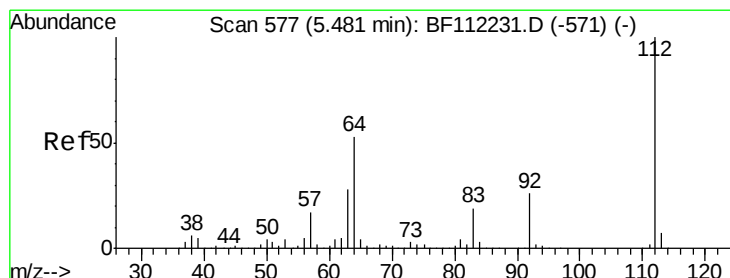
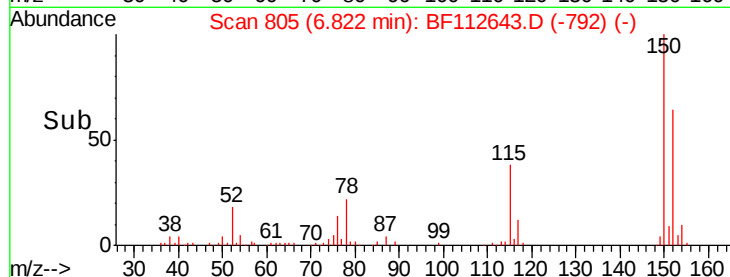
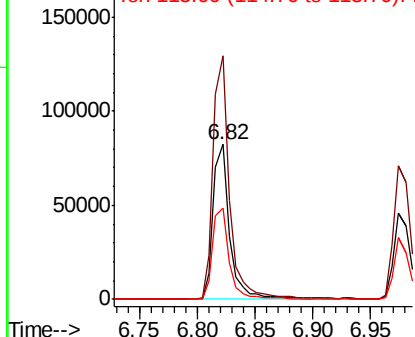
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.02 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 82604
Ion Ratio Lower Upper
152 100
150 157.4 127.4 191.0
115 59.2 45.5 68.3



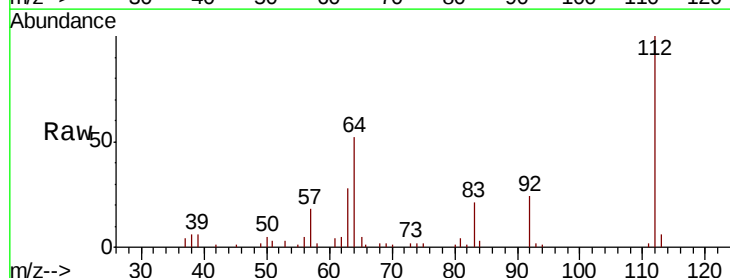
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



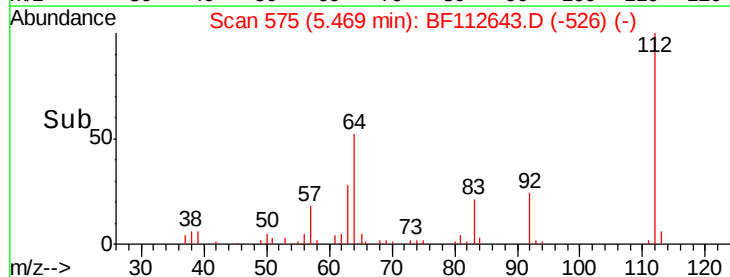
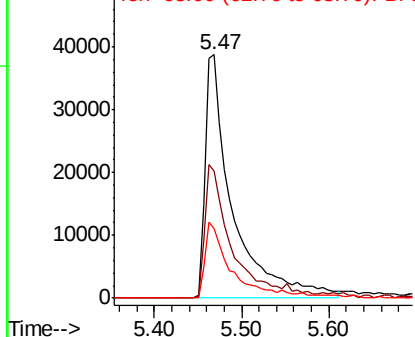
#5

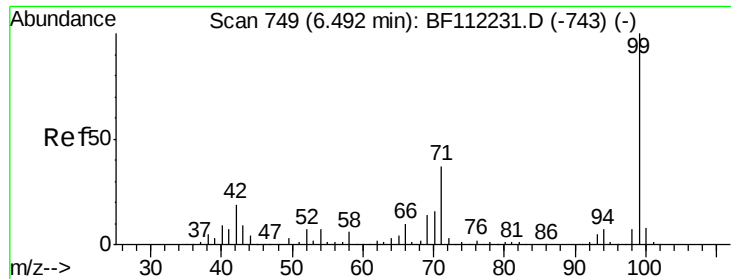
2-Fluorophenol
Concen: 21.599 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Tgt Ion:112 Resp: 83998
Ion Ratio Lower Upper
112 100
64 52.3 45.7 68.5
63 28.4 23.6 35.4



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: 20.769 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Instrument :

BNA_F

ClientSampleId :

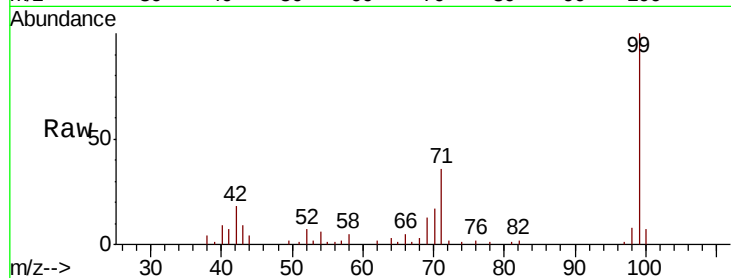
Tot Ion: 99 Resp: 112234

Ion Ratio Lower Upper

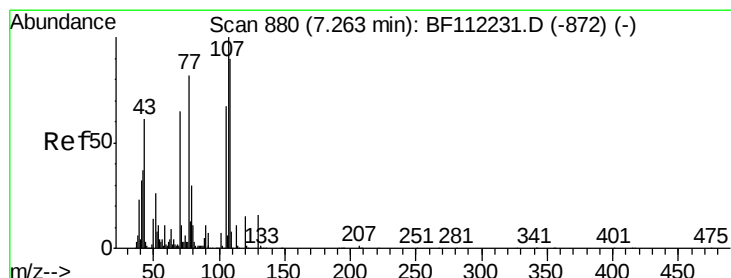
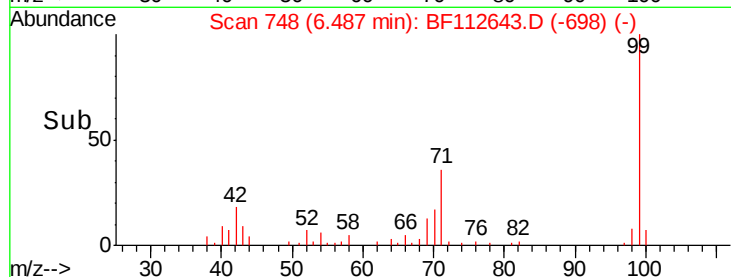
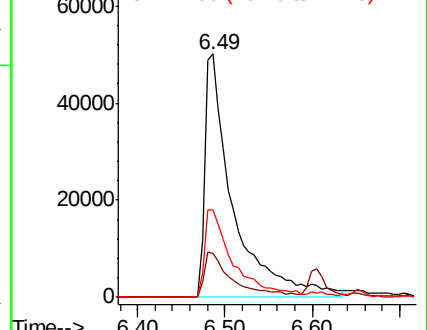
99 100

42 17.8 15.1 22.7

71 35.9 26.9 40.3



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: 3.132 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.12 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Tgt Ion: 70 Resp: 11670

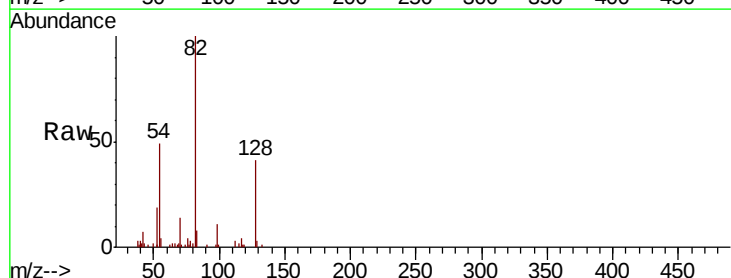
Ion Ratio Lower Upper

70 100

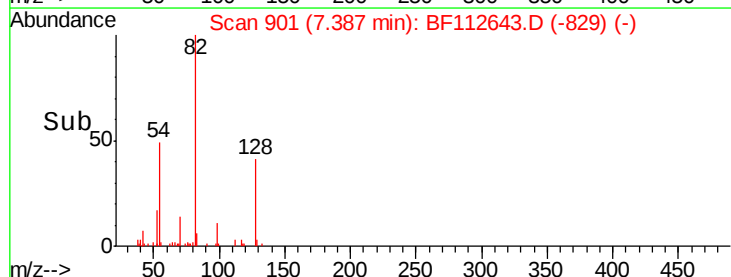
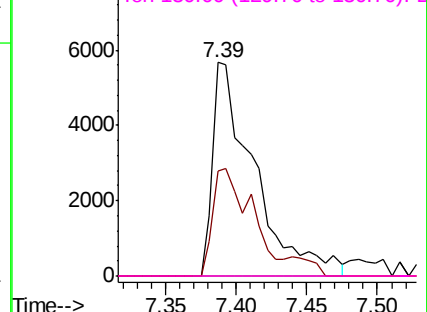
42 49.0 47.6 71.4

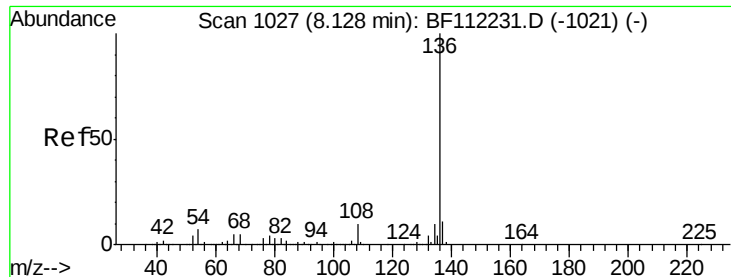
101 0.0 7.9 11.9#

130 0.0 18.4 27.6#



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: 8.10 min Scan# 1023

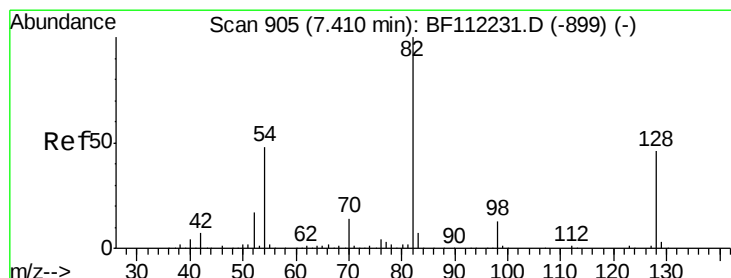
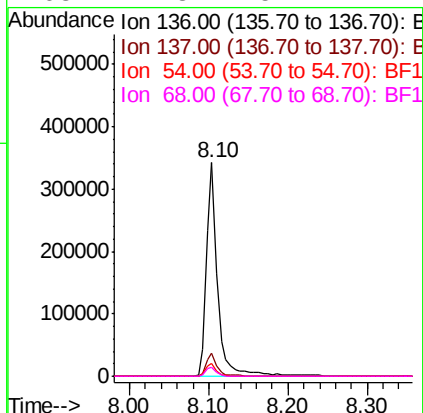
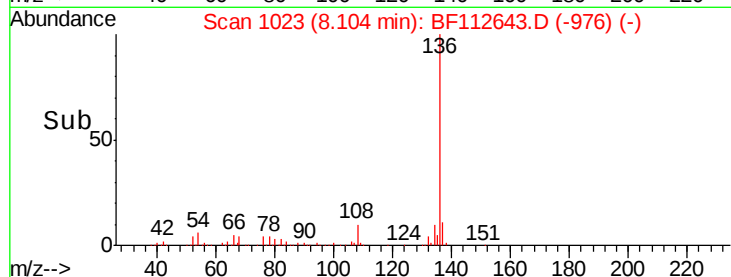
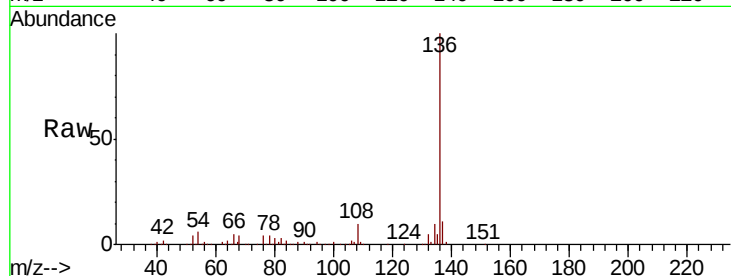
Delta R.T. -0.02 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	338730
Ion	Ratio	Lower Upper
136	100	
137	10.5	9.1 13.7
54	6.2	5.9 8.9
68	4.3	5.1 7.7#



#23

Nitrobenzene-d5

Concen: 12.098 ng

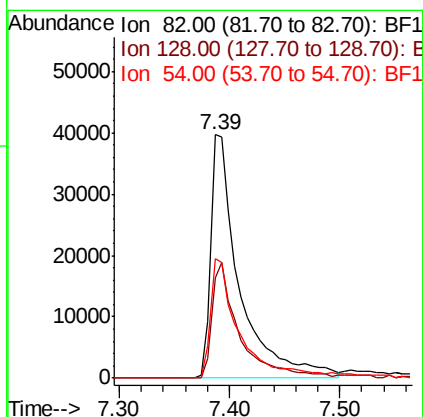
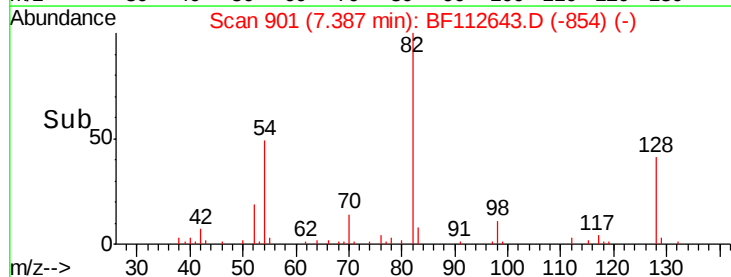
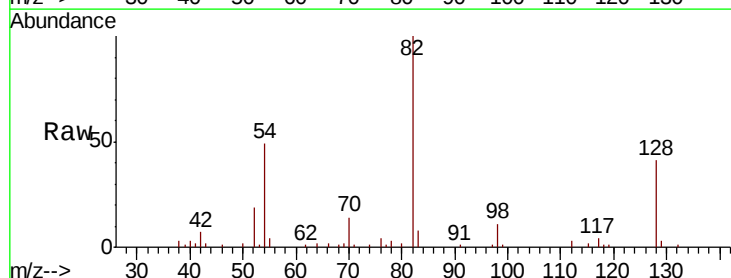
RT: 7.39 min Scan# 901

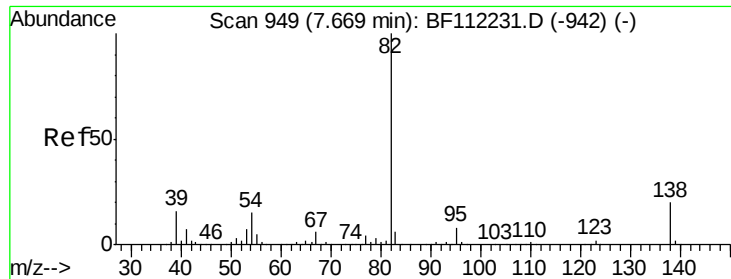
Delta R.T. -0.02 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Tgt Ion: 82	Resp:	71118
Ion	Ratio	Lower Upper
82	100	
128	41.2	37.8 56.8
54	49.1	39.7 59.5

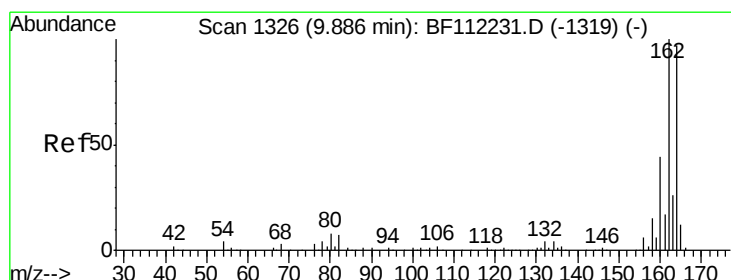
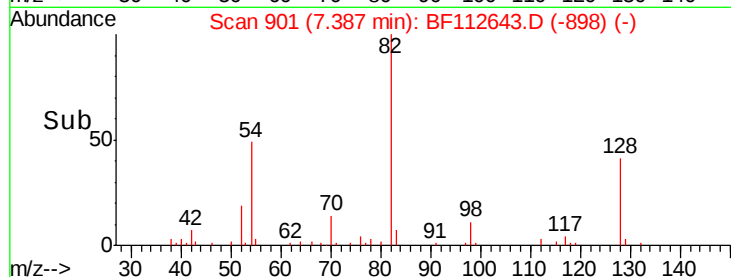
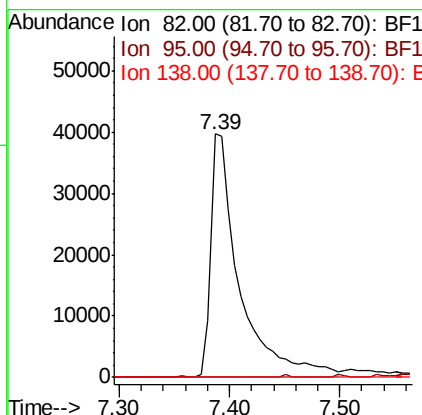
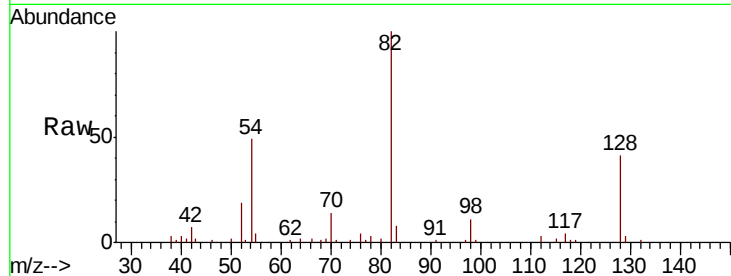




#25
Isophorone
Concen: 7.711 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.28 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

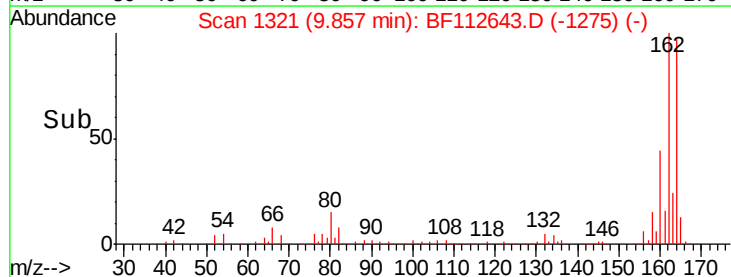
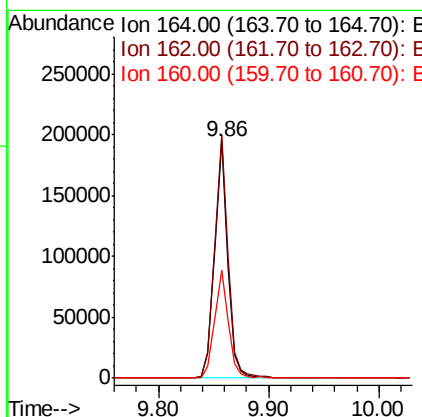
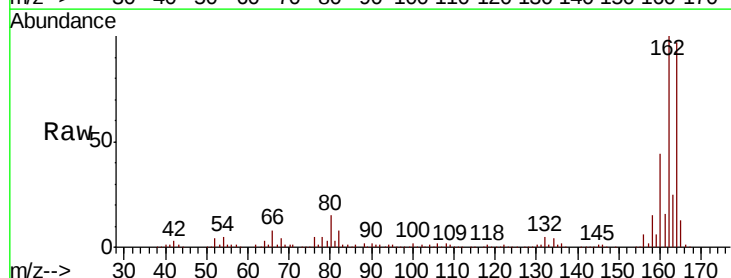
Instrument :
BNA_F
ClientSampleId :

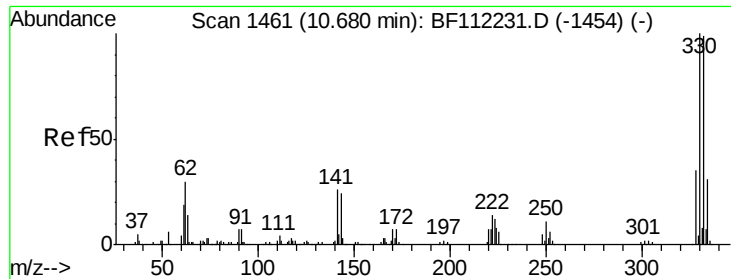
Tot Ion: 82 Resp: 71118
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 15.4 23.0#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.03 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Tgt Ion: 164 Resp: 160269
Ion Ratio Lower Upper
164 100
162 102.8 82.2 123.4
160 45.3 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 18.126 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.02 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Instrument :

BNA_F

ClientSampleId :

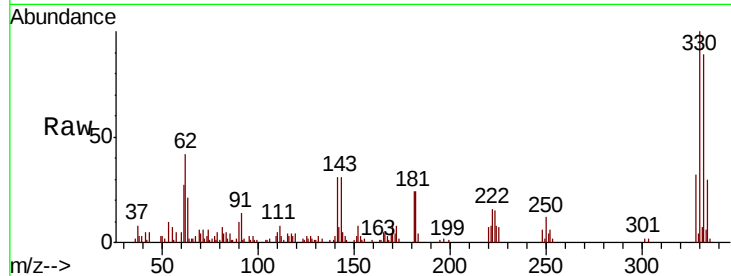
Tot Ion:330 Resp: 33814

Ion Ratio Lower Upper

330 100

332 93.9 76.6 114.8

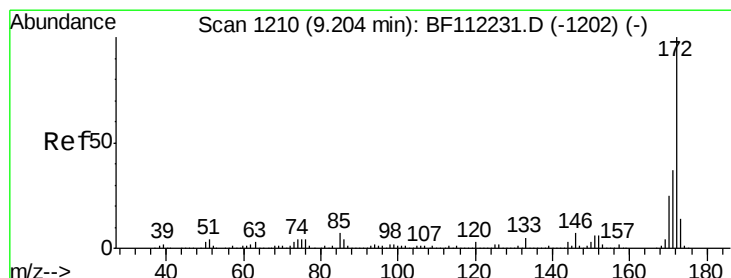
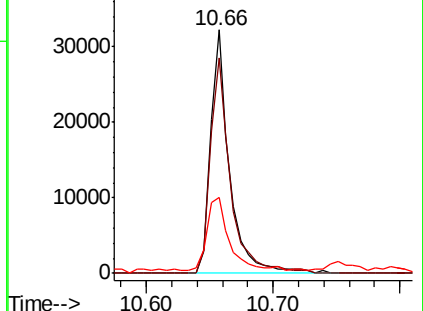
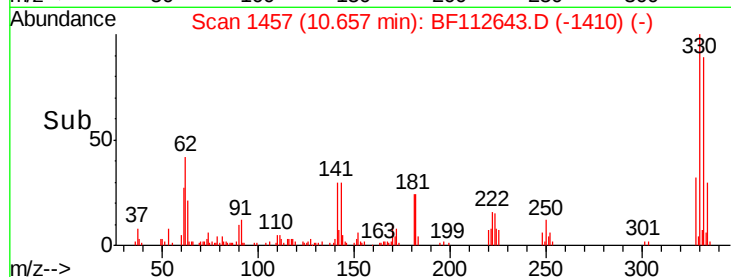
141 34.9 24.3 36.5



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: 14.506 ng

RT: 9.17 min Scan# 1205

Delta R.T. -0.03 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

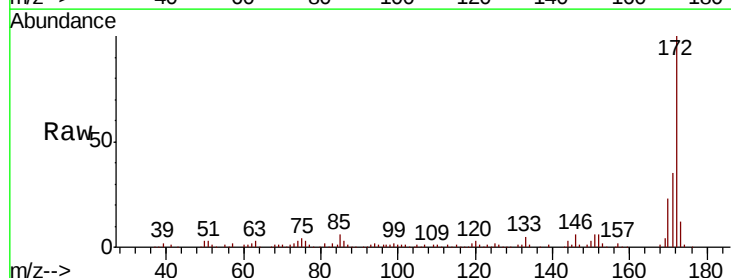
Tgt Ion:172 Resp: 164379

Ion Ratio Lower Upper

172 100

171 34.6 30.5 45.7

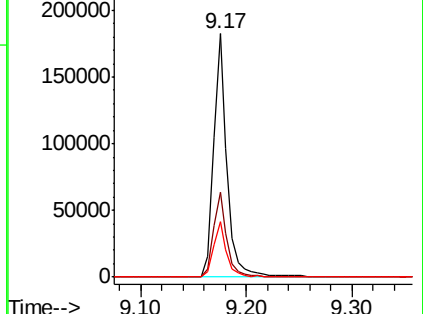
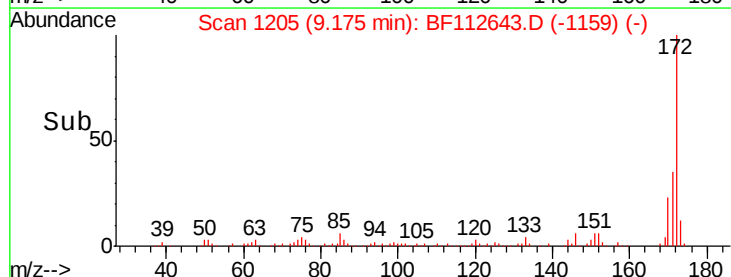
170 23.0 20.2 30.4

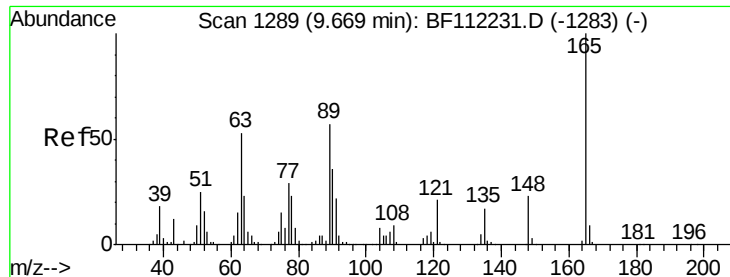


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.921 ng

RT: 9.86 min Scan# 1321

Delta R.T. 0.19 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Instrument :

BNA_F

ClientSampleId :

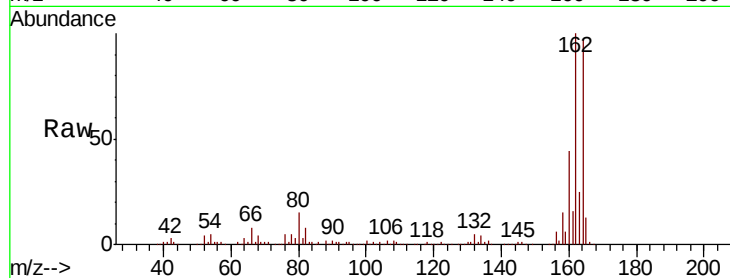
Tot Ion:165 Resp: 22090

Ion Ratio Lower Upper

165 100

63 2.1 33.8 50.8#

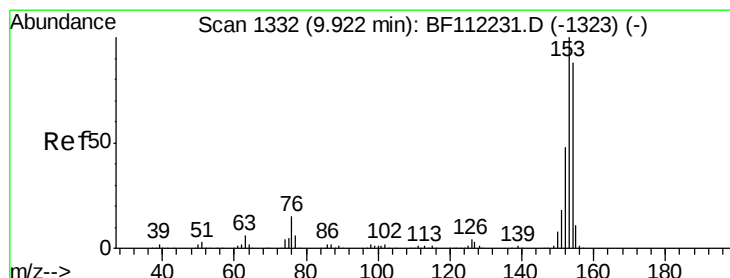
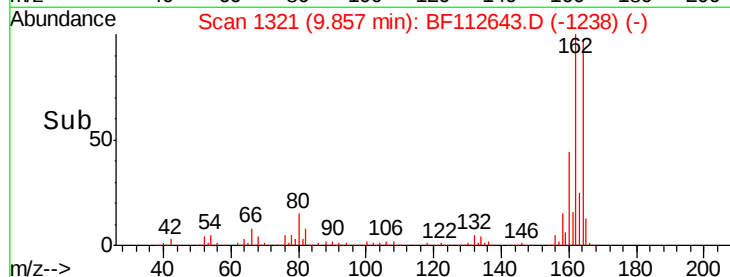
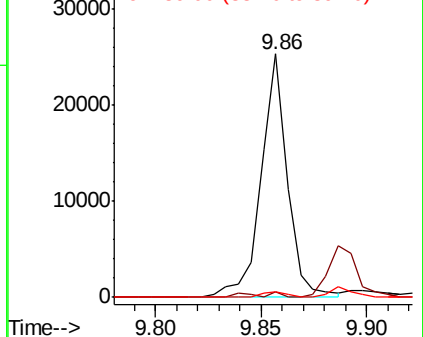
89 2.1 36.9 55.3#



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



#52

Acenaphthene

Concen: 6.145 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.04 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

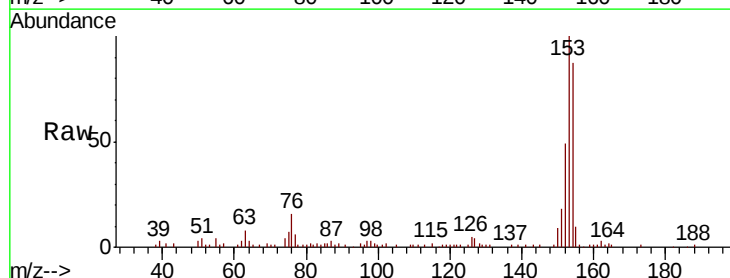
Tgt Ion:154 Resp: 58461

Ion Ratio Lower Upper

154 100

153 115.3 89.8 134.6

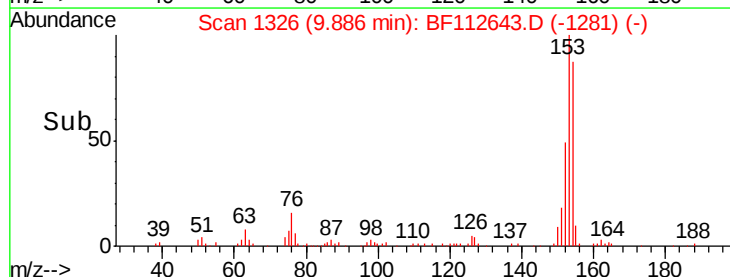
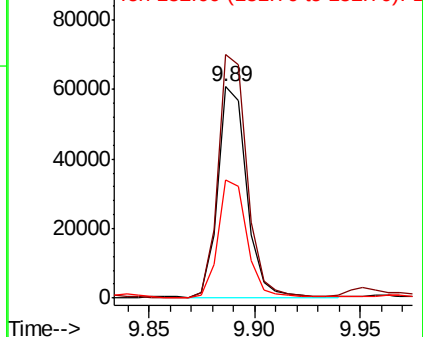
152 55.9 43.5 65.3

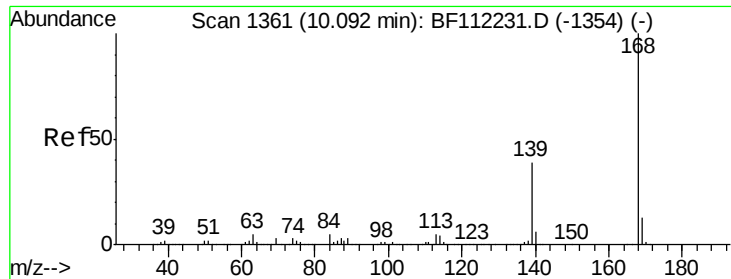


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

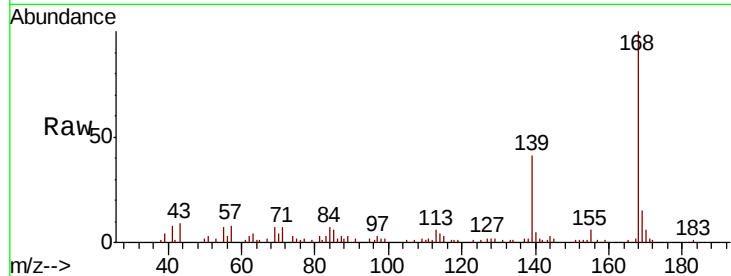




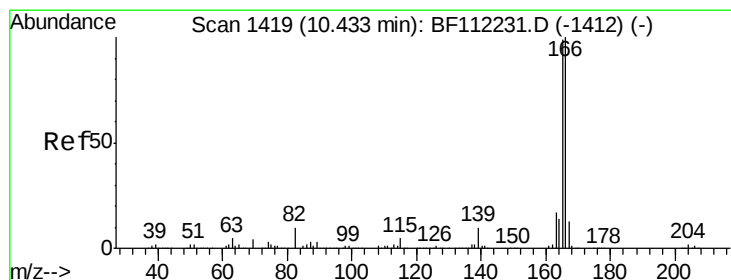
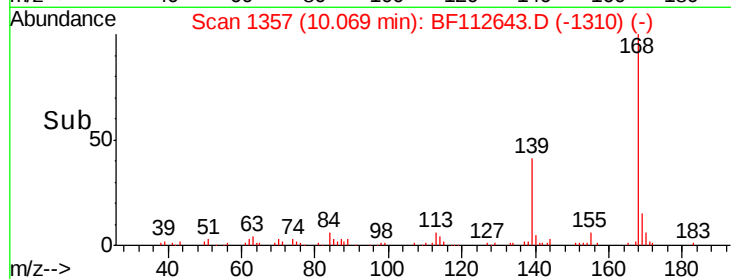
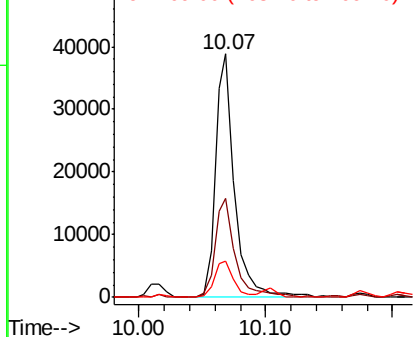
#55
Dibenzofuran
Concen: 2.807 ng
RT: 10.07 min Scan# 1357
Delta R.T. -0.02 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Instrument :
BNA_F
ClientSampled :

Tot Ion:168 Resp: 40809
Ion Ratio Lower Upper
168 100
139 40.7 29.2 43.8
169 14.7 11.4 17.0

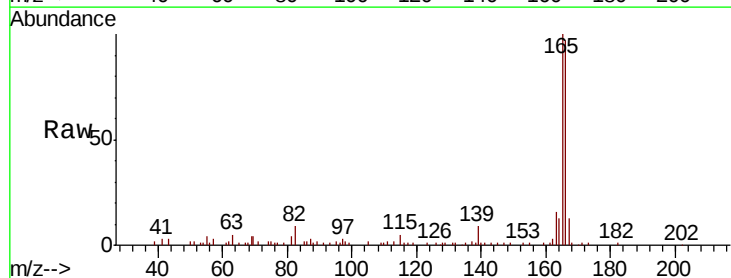


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

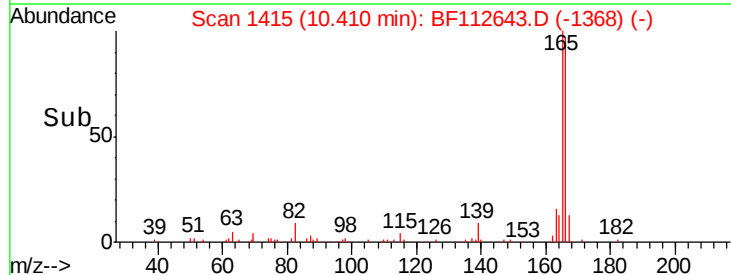
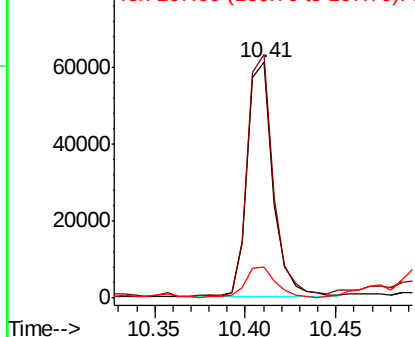


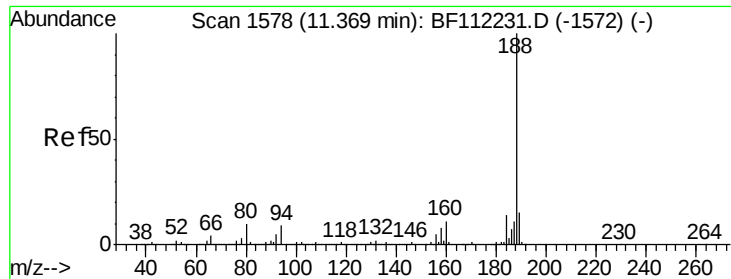
#58
Fluorene
Concen: 5.588 ng
RT: 10.41 min Scan# 1415
Delta R.T. -0.02 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Tgt Ion:166 Resp: 60796
Ion Ratio Lower Upper
166 100
165 103.3 77.1 115.7
167 13.3 11.3 16.9



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

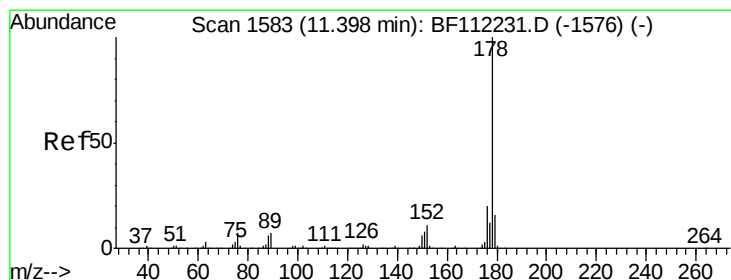
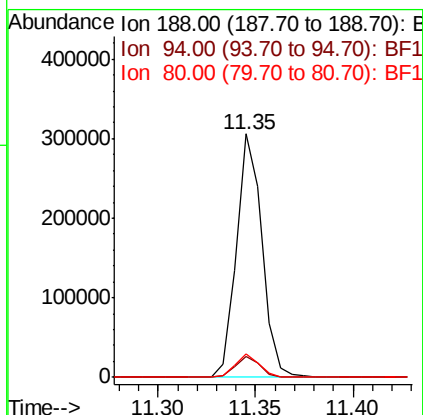
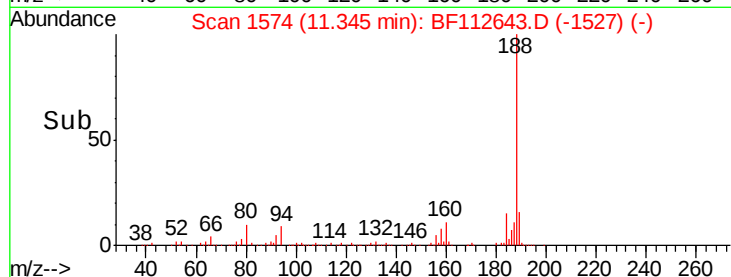
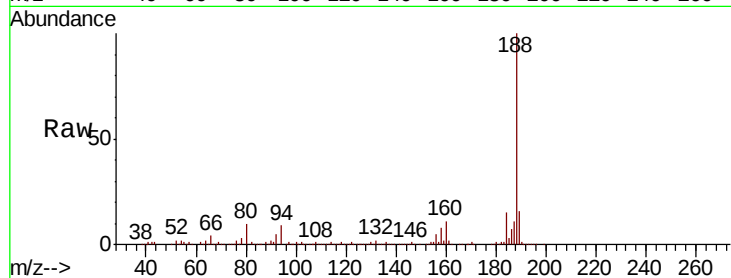




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.02 min
 Lab File: BF112643.D
 Acq: 20 Feb 2019 15:51

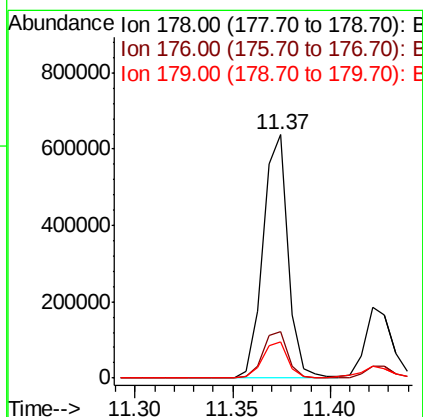
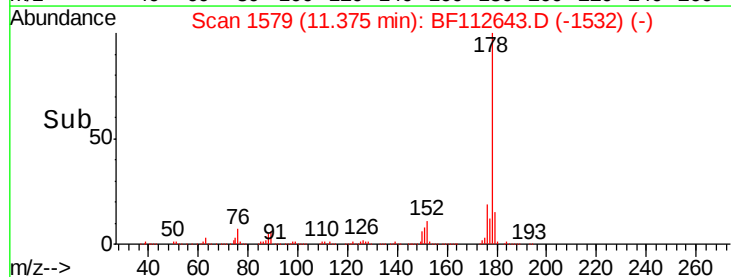
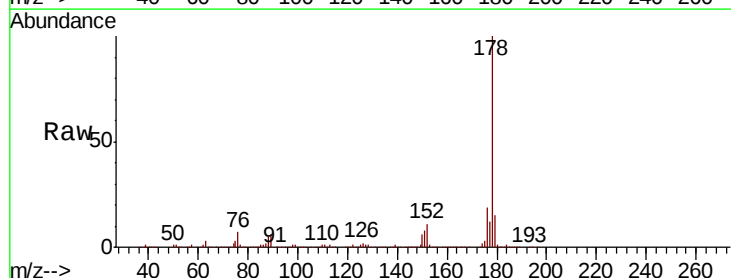
Instrument :
 BNA_F
 ClientSampleId :

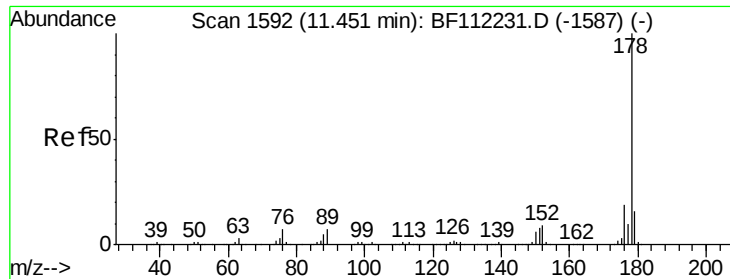
Tot Ion:188 Resp: 276758
 Ion Ratio Lower Upper
 188 100
 94 8.5 8.2 12.2
 80 9.6 8.9 13.3



#71
 Phenanthrene
 Concen: 39.365 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.02 min
 Lab File: BF112643.D
 Acq: 20 Feb 2019 15:51

Tgt Ion:178 Resp: 566394
 Ion Ratio Lower Upper
 178 100
 176 18.9 16.3 24.5
 179 15.1 13.0 19.4

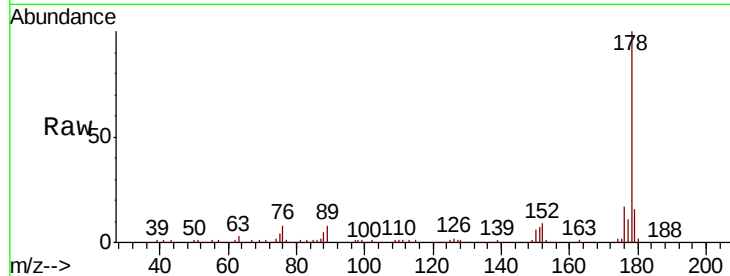




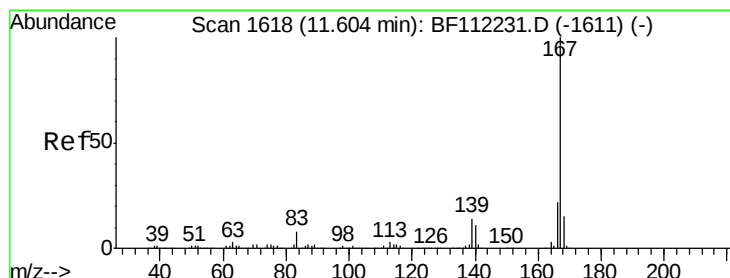
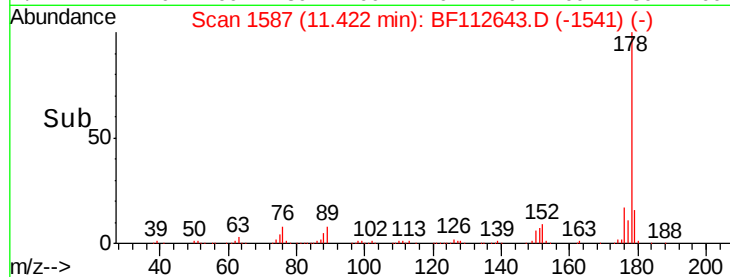
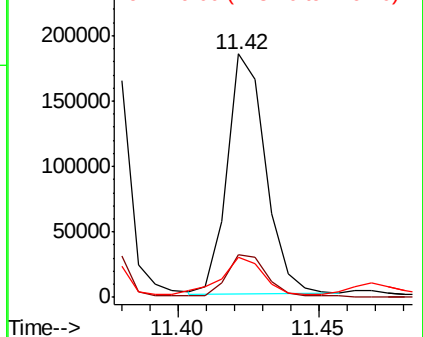
#72
 Anthracene
 Concen: 12.087 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.03 min
 Lab File: BF112643.D
 Acq: 20 Feb 2019 15:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 173242
 Ion Ratio Lower Upper
 178 100
 176 17.5 15.5 23.3
 179 16.5 12.8 19.2

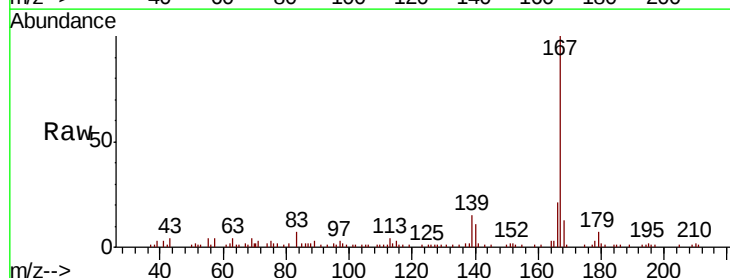


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

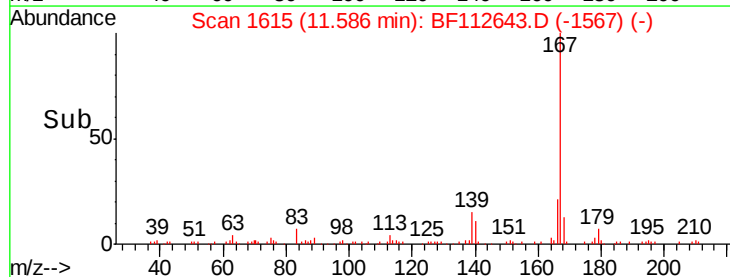
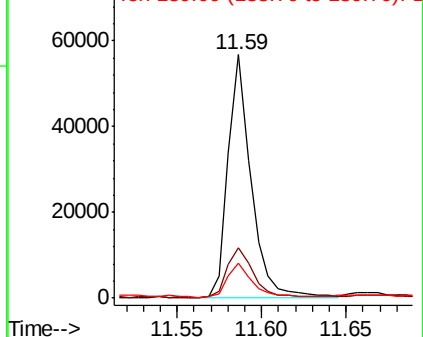


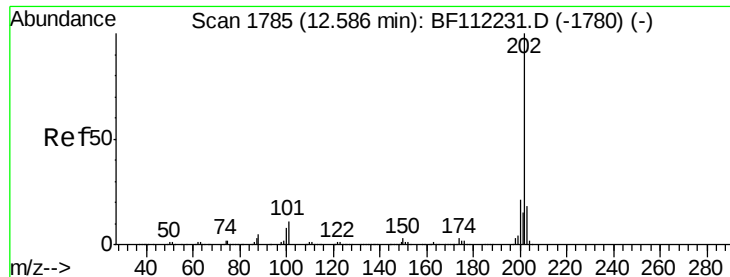
#73
 Carbazole
 Concen: 3.847 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. -0.02 min
 Lab File: BF112643.D
 Acq: 20 Feb 2019 15:51

Tgt Ion:167 Resp: 54392
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.9 26.9
 139 14.5 10.2 15.2



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: 48.331 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.02 min

Lab File: BF112643.D

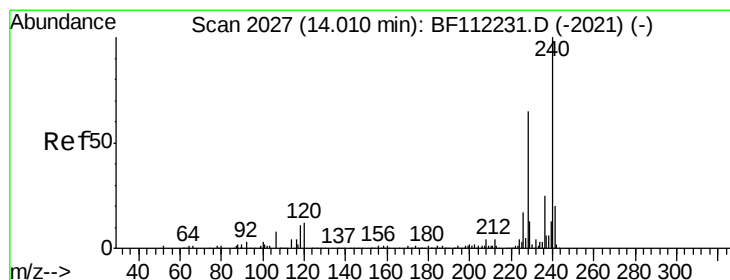
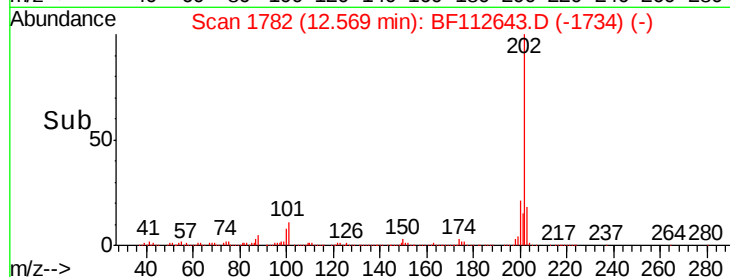
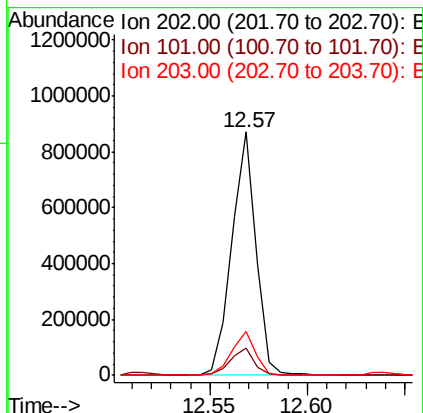
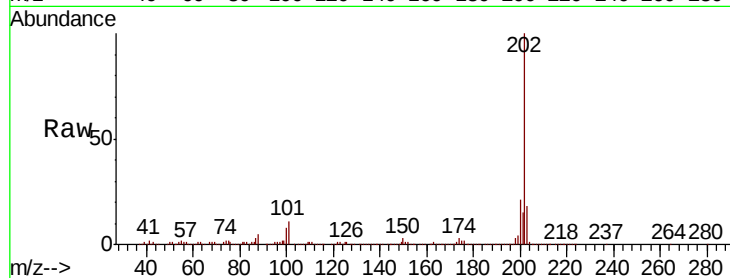
Acq: 20 Feb 2019 15:51

Instrument :

BNA_F

ClientSampled :

Tot Ion:	202	Resp:	745855
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.8
203	18.0	0.0	38.4



#76

Chrysene-d12

Concen: 20.000 ng

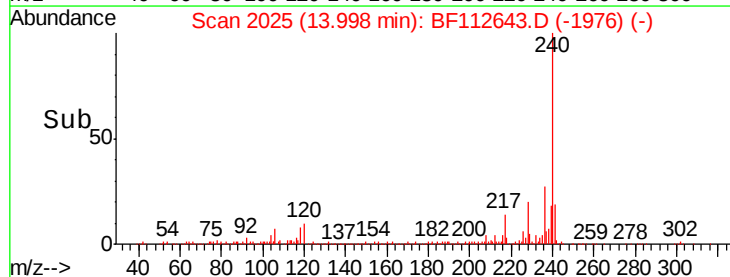
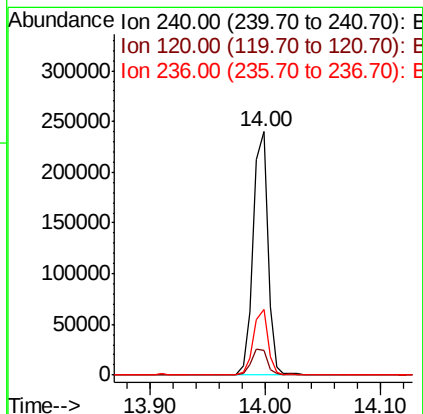
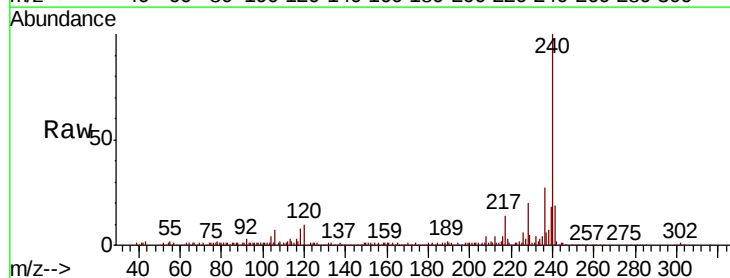
RT: 14.00 min Scan# 2025

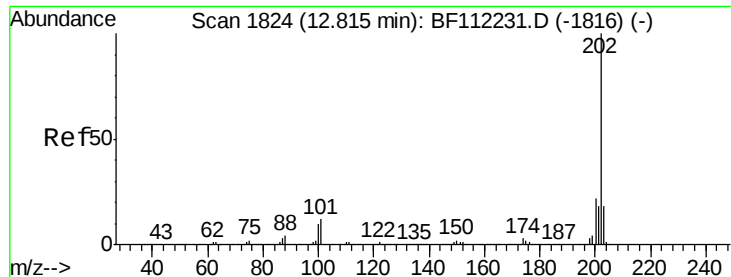
Delta R.T. -0.01 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Tgt Ion:	240	Resp:	215769
Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.0	13.6
236	26.8	20.7	31.1





#78

Pvrene

Concen: 41.404 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Instrument :

BNA_F

ClientSampleId :

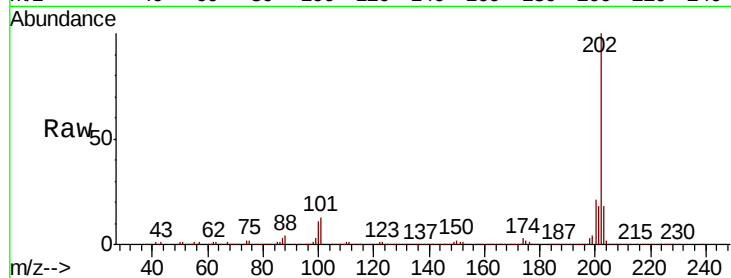
Tot Ion:202 Resp: 618513

Ion Ratio Lower Upper

202 100

200 21.5 17.7 26.5

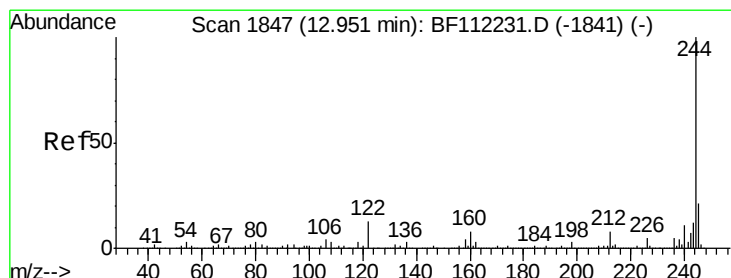
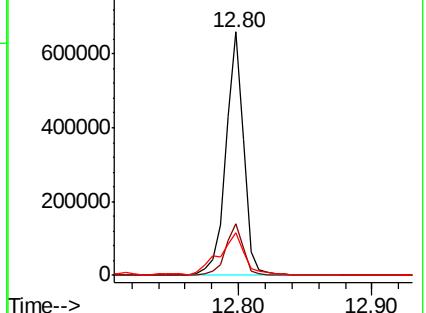
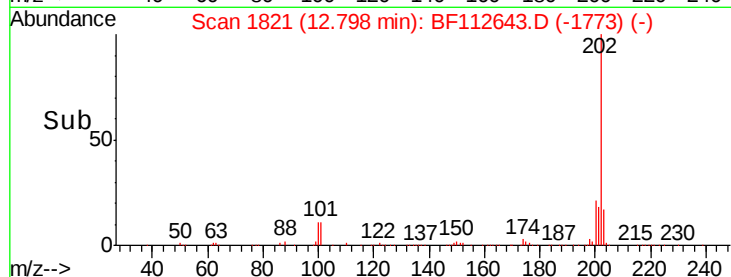
203 17.6 14.6 22.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 12.993 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.03 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

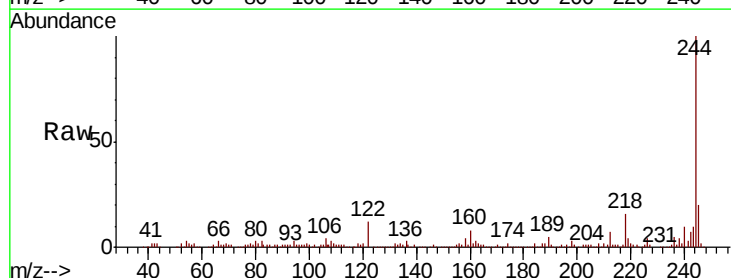
Tgt Ion:244 Resp: 148851

Ion Ratio Lower Upper

244 100

212 7.5 5.9 8.9

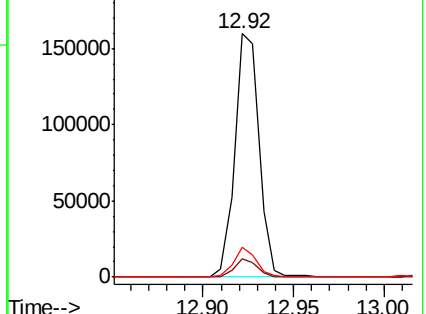
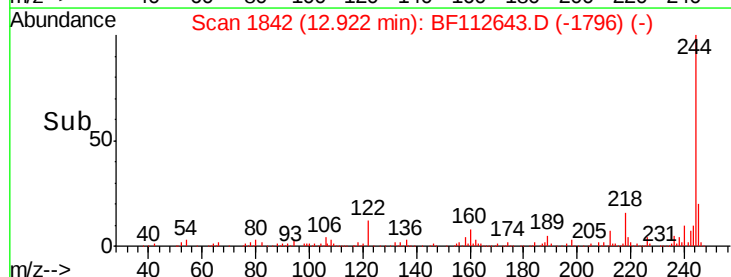
122 12.3 9.8 14.6

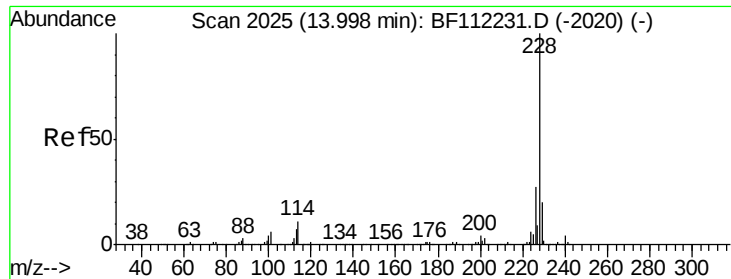


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

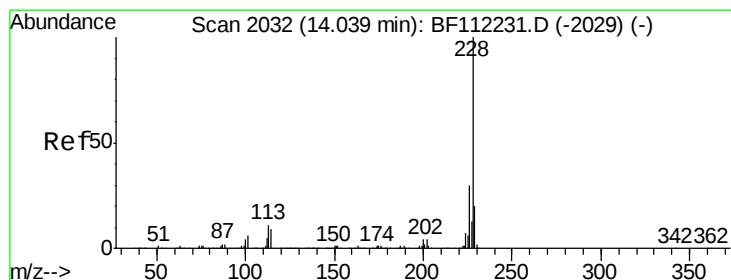
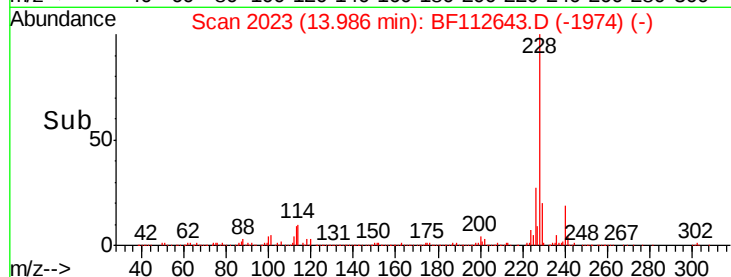
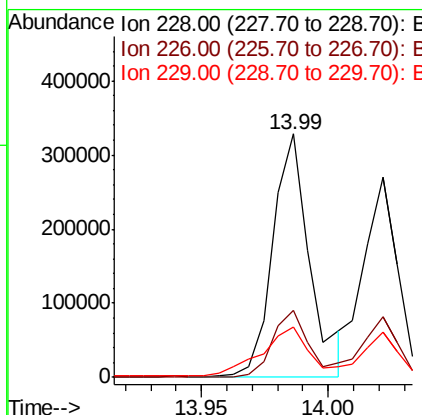
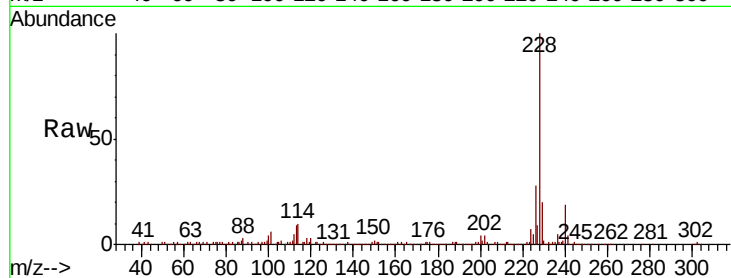




#81
Benzo(a)anthracene
Concen: 26.297 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

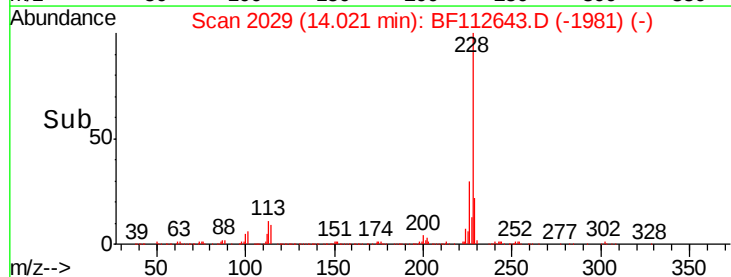
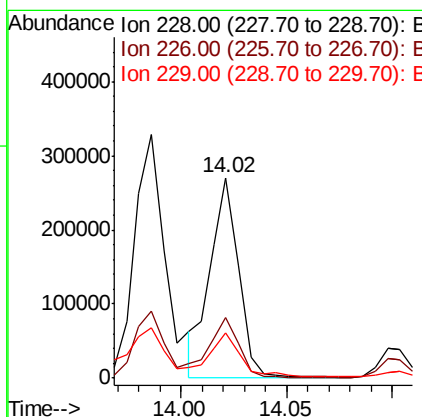
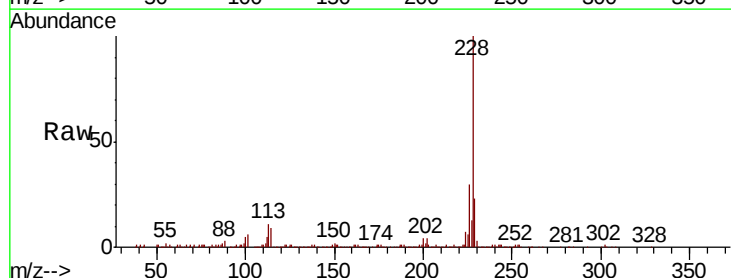
Instrument :
BNA_F
ClientSampleId :

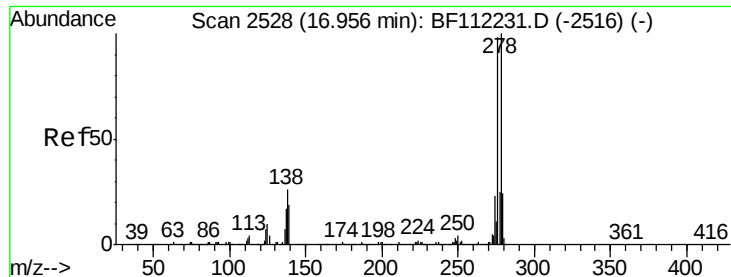
Tot Ion:228 Resp: 333547
Ion Ratio Lower Upper
228 100
226 27.5 22.6 34.0
229 20.5 16.5 24.7



#83
Chrysene
Concen: 20.727 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.02 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Tgt Ion:228 Resp: 250952
Ion Ratio Lower Upper
228 100
226 30.2 25.0 37.6
229 22.5 16.6 24.8





#86

Indeno(1,2,3-cd)pyrene

Concen: 14.145 ng

RT: 16.96 min Scan# 2529

Delta R.T. 0.01 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

Instrument :

BNA_F

ClientSampleId :

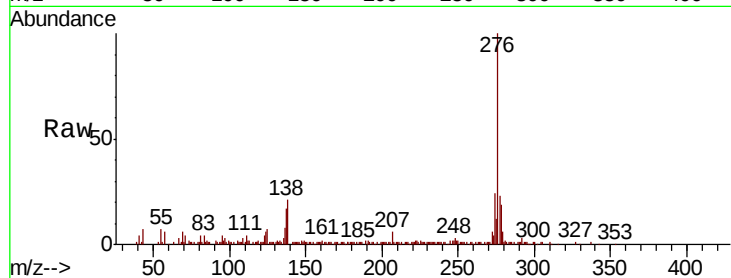
Tot Ion:276 Resp: 135704

Ion Ratio Lower Upper

276 100

138 20.7 22.6 34.0#

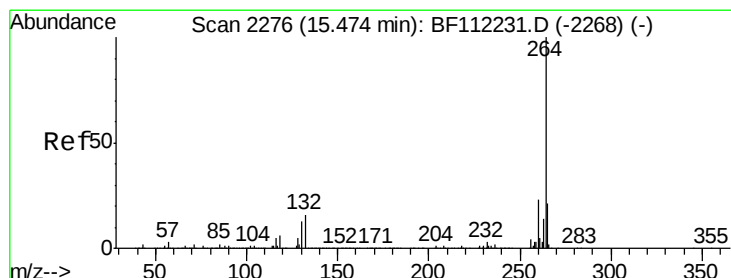
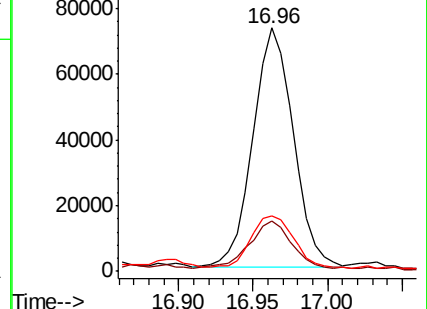
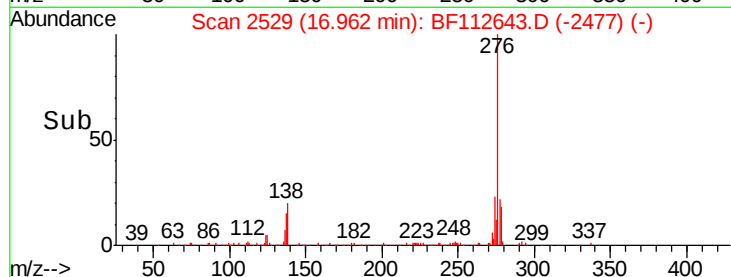
277 24.3 20.3 30.5



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: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF112643.D

Acq: 20 Feb 2019 15:51

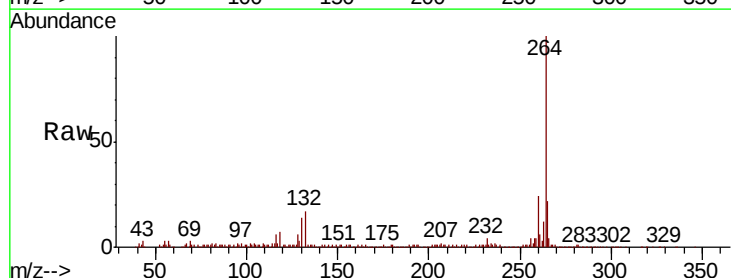
Tgt Ion:264 Resp: 222126

Ion Ratio Lower Upper

264 100

260 24.2 18.2 27.2

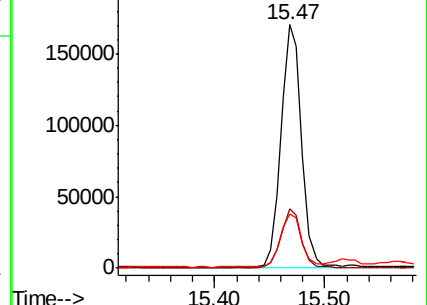
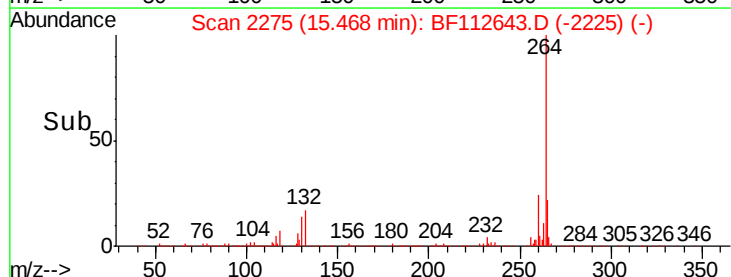
265 22.5 17.0 25.4

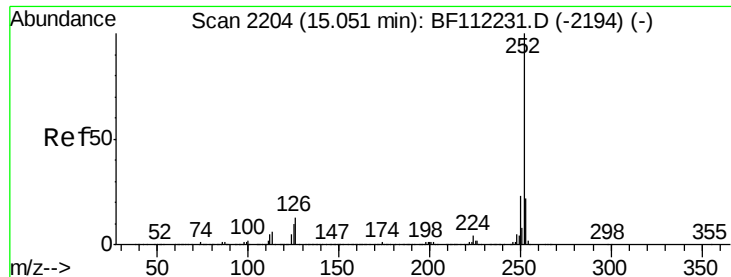


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

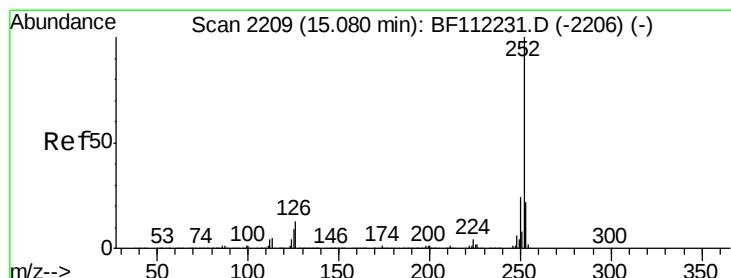
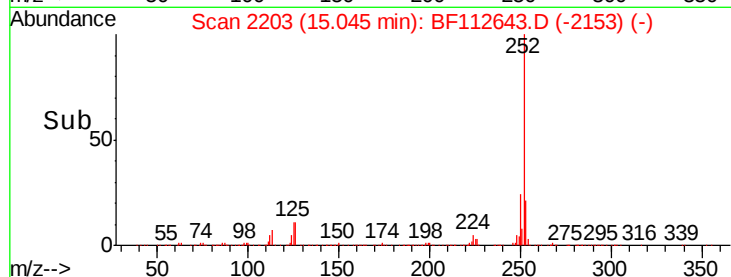
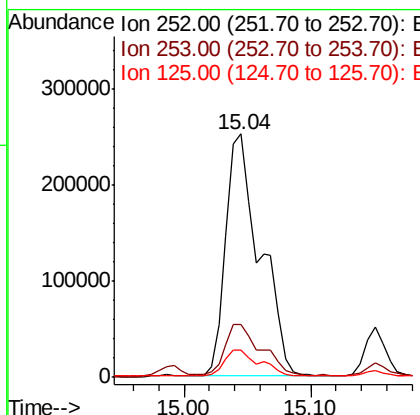
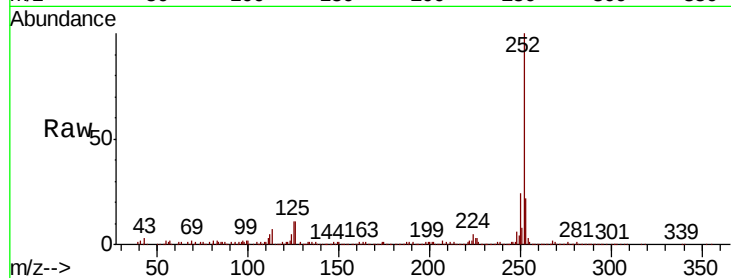




#88
Benzo(b)fluoranthene
Concen: 35.847 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

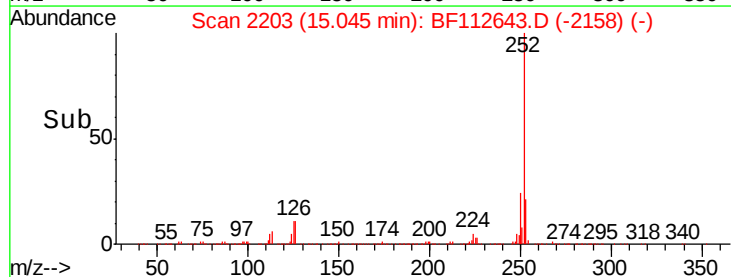
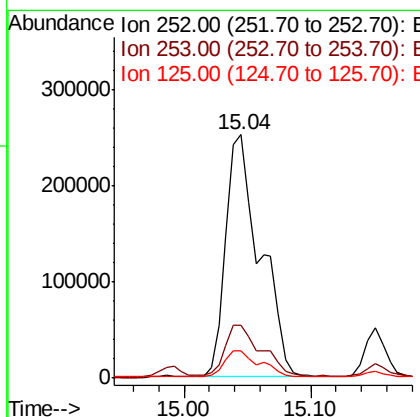
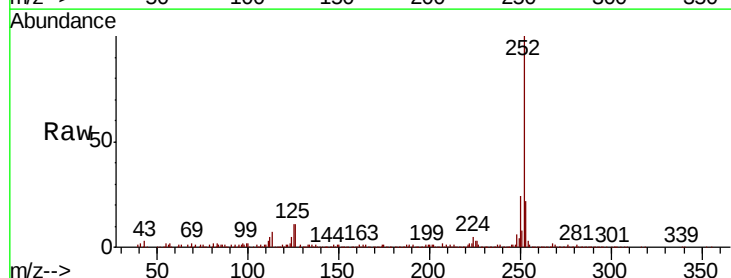
Instrument :
BNA_F
ClientSampleId :

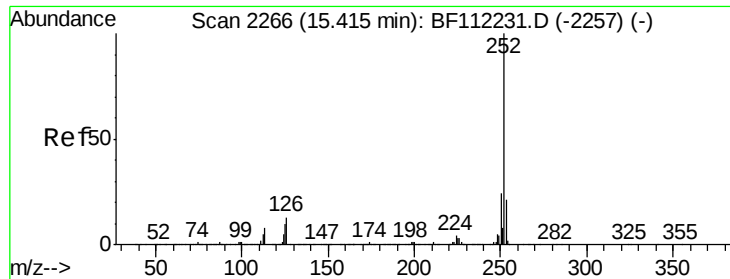
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	11.3	8.7	13.1



#89
Benzo(k)fluoranthene
Concen: 37.425 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	11.3	9.1	13.7

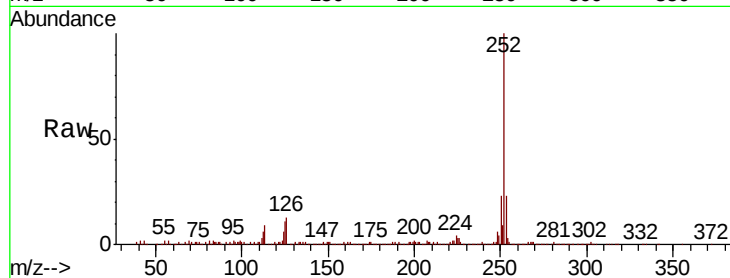




#90
Benzo(a)pyrene
Concen: 21.802 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	11.1	9.0	13.4

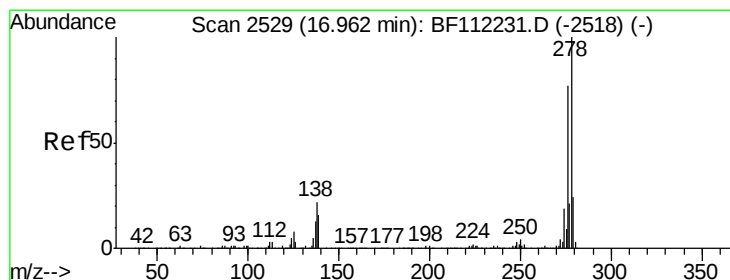
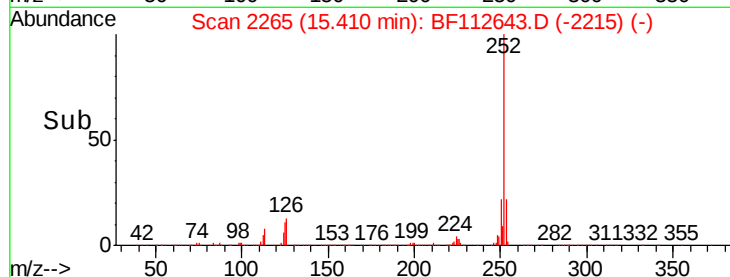
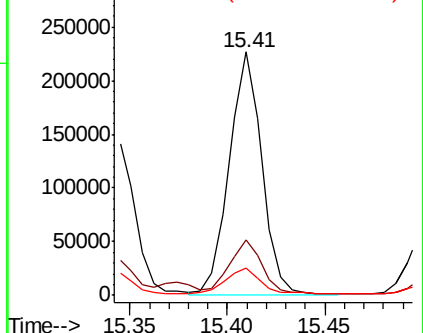


Abundance

Ion 252.00 (251.70 to 252.70): E

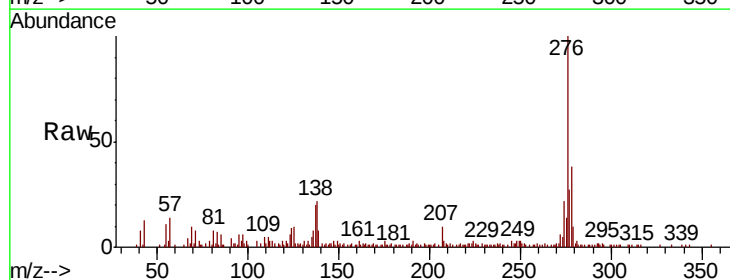
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 3.551 ng
RT: 16.95 min Scan# 2527
Delta R.T. -0.01 min
Lab File: BF112643.D
Acq: 20 Feb 2019 15:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.7	13.7	20.5#
279	25.9	19.0	28.6

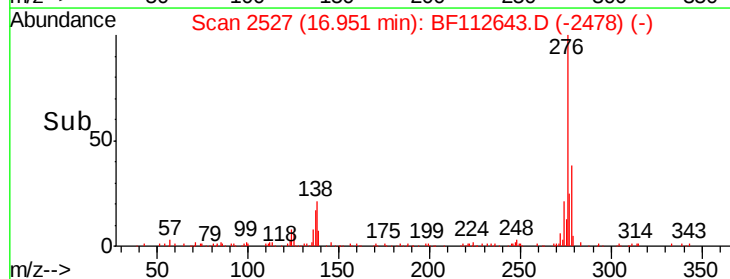
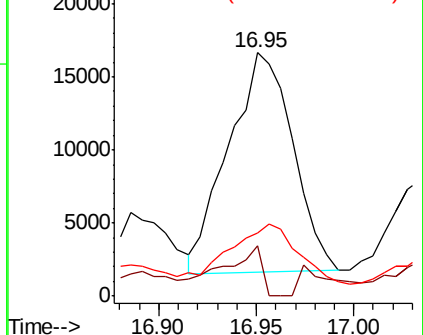


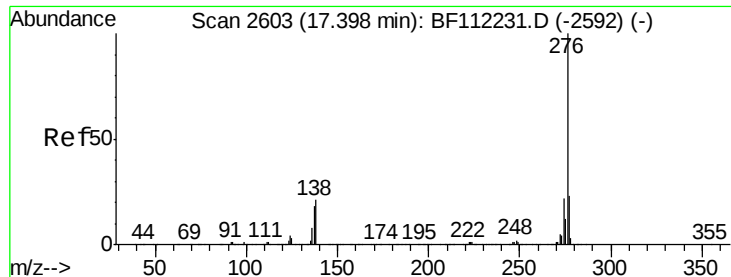
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

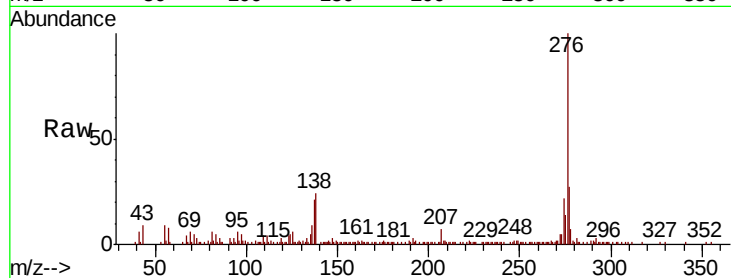




#92
 Benzo(a,h,i)perylene
 Concen: 13.123 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.02 min
 Lab File: BF112643.D
 Acq: 20 Feb 2019 15:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.1	19.4	29.0
138	23.5	19.1	28.7



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

