

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081219\
 Data File : BF116218.D
 Acq On : 13 Aug 2019 4:38
 Operator : HP/JU
 Sample : K4095-05 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-080919-A

Quant Time: Aug 13 07:06:59 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

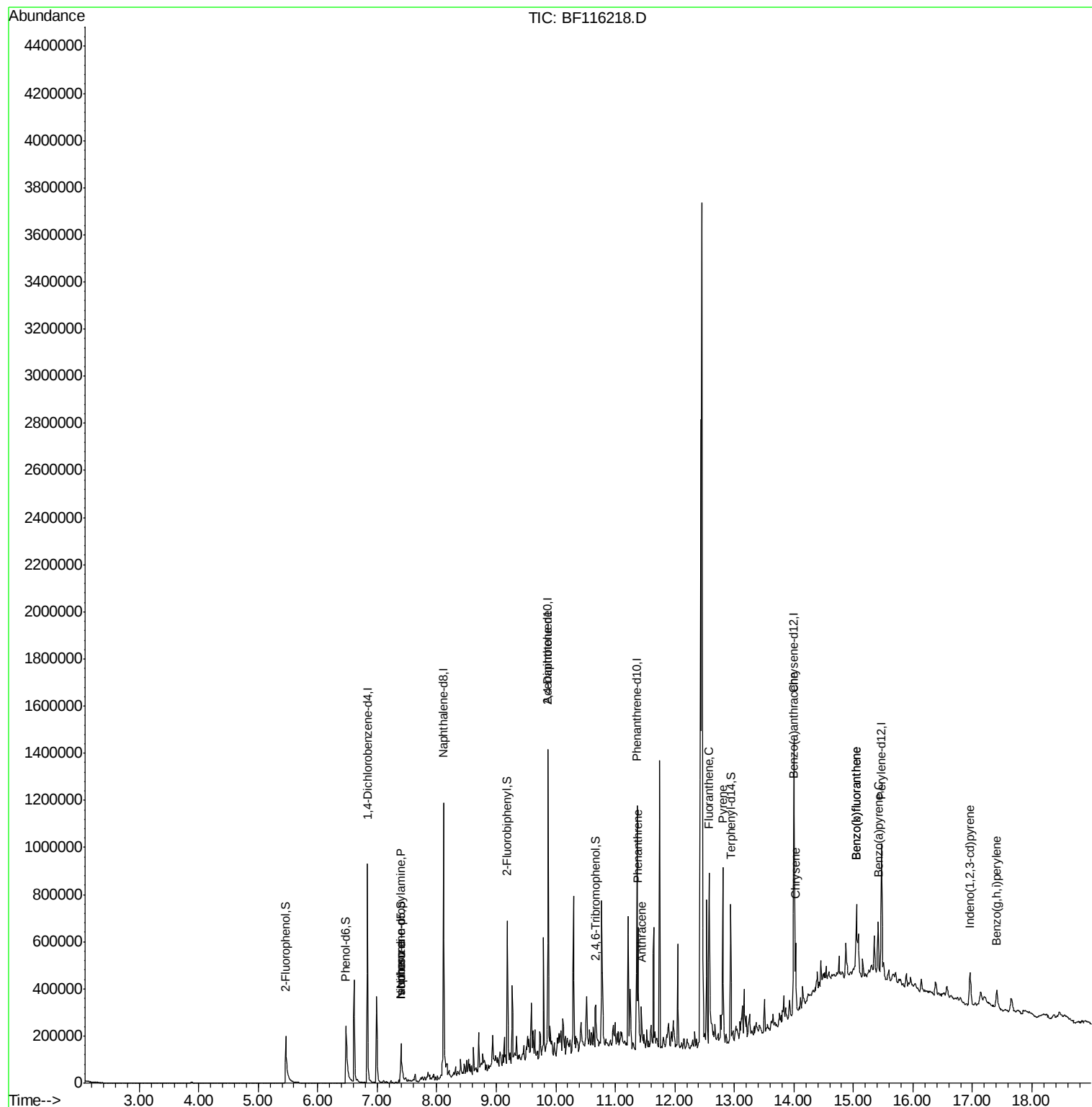
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	140773	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	563687	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	274783	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	400735	20.00	ng	0.00
76) Chrysene-d12	14.00	240	330990	20.00	ng	0.00
87) Perylene-d12	15.47	264	282090	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	113187	13.46	ng	0.00
7) Phenol-d6	6.47	99	171411	16.16	ng	-0.01
23) Nitrobenzene-d5	7.40	82	95902	9.82	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	29048	10.90	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	204700	13.95	ng	-0.02
79) Terphenyl-d14	12.94	244	171623	10.93	ng	-0.01
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.40	70	13813	2.101	ng	Qvalue # 84
25) Isophorone	7.40	82	95911	5.136	ng	# 65
57) 2,4-Dinitrotoluene	9.87	165	36761	6.791	ng	# 21
71) Phenanthrene	11.39	178	192702	9.406	ng	98
72) Anthracene	11.44	178	74357	3.586	ng	99
75) Fluoranthene	12.57	202	271395	12.654	ng	99
78) Pyrene	12.80	202	242939	9.737	ng	98
81) Benzo(a)anthracene	13.99	228	140933	6.662	ng	99
83) Chrysene	14.03	228	121392	5.910	ng	99
86) Indeno(1,2,3-cd)pyrene	16.96	276	73116	4.238	ng	92
88) Benzo(b)fluoranthene	15.05	252	212203	13.010	ng	# 94
89) Benzo(k)fluoranthene	15.05	252	212203	13.357	ng	# 93
90) Benzo(a)pyrene	15.42	252	109728	7.526	ng	# 96
92) Benzo(a,h,i)perylene	17.41	276	70614	5.697	ng	93

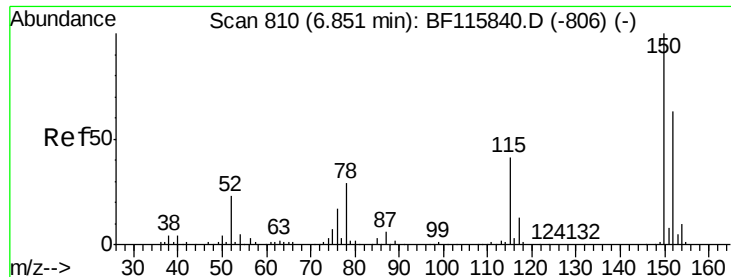
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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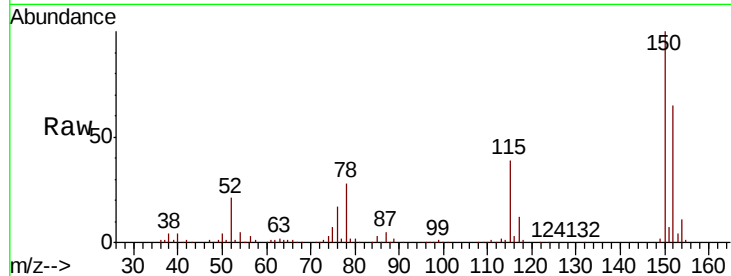


#1

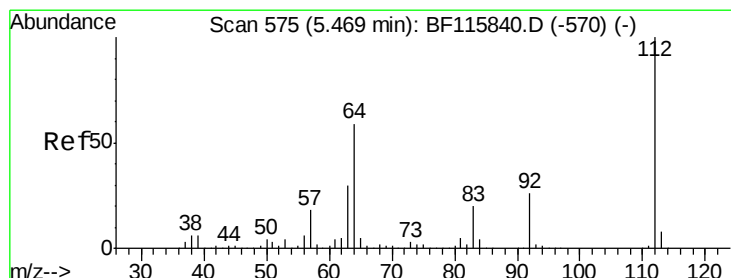
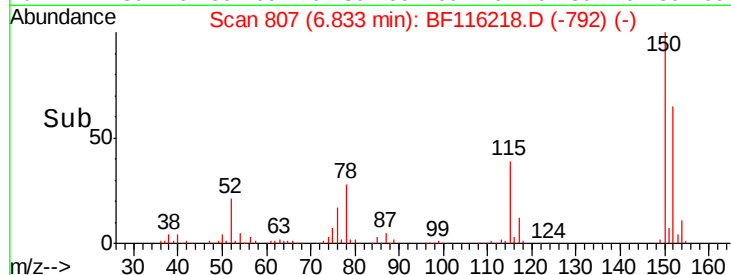
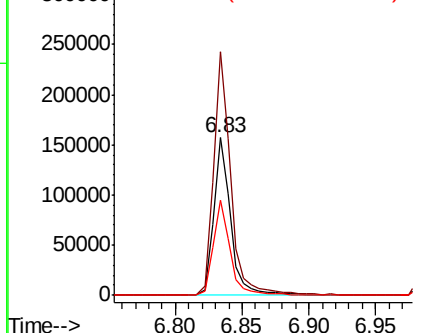
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF116218.D
Acq: 13 Aug 2019 4:38

Instrument :
BNA_F
ClientSampleId :
SU-04-080919-A

Tot Ion:152 Resp: 140773
Ion Ratio Lower Upper
152 100
150 154.9 126.2 189.2
115 60.9 49.9 74.9



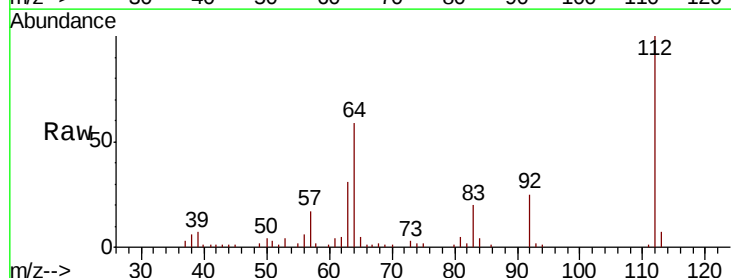
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



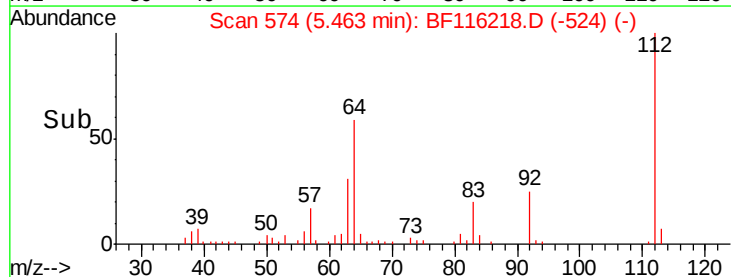
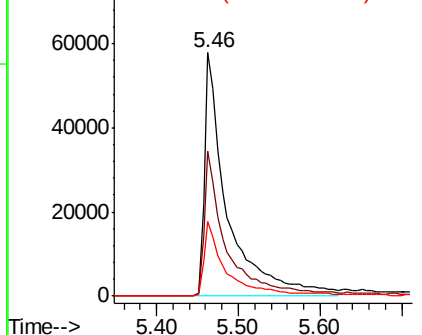
#5

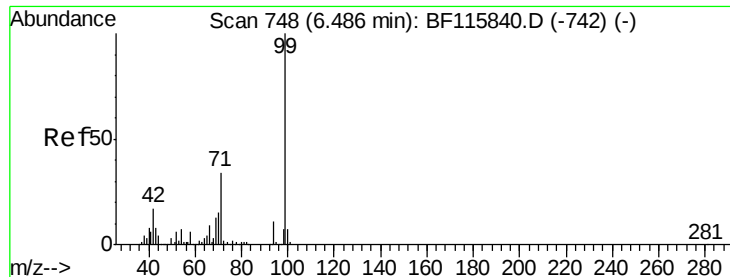
2-Fluorophenol
Concen: 13.460 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF116218.D
Acq: 13 Aug 2019 4:38

Tgt Ion:112 Resp: 113187
Ion Ratio Lower Upper
112 100
64 59.4 45.4 68.2
63 30.7 23.7 35.5



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: 16.156 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

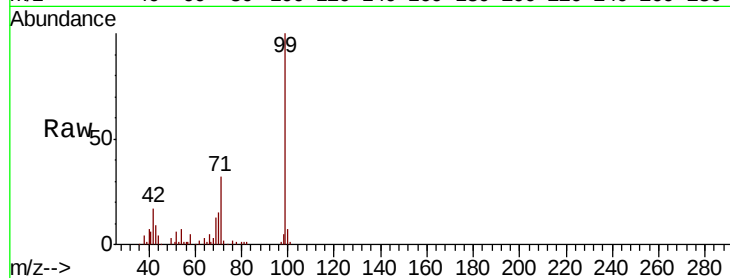
Tot Ion: 99 Resp: 171411

Ion Ratio Lower Upper

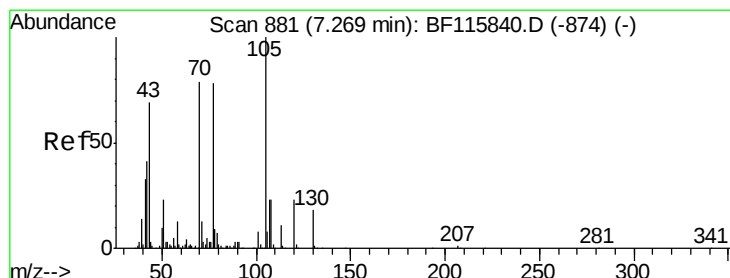
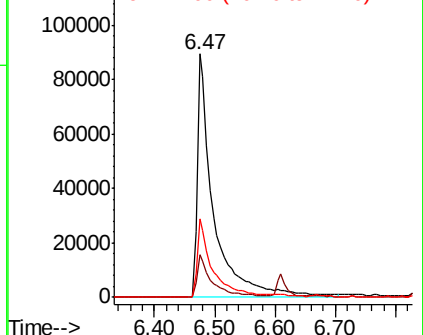
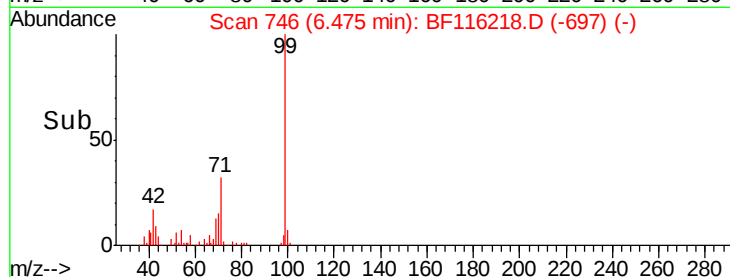
99 100

42 17.5 13.8 20.8

71 32.0 27.3 40.9



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: 2.101 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.13 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Tgt Ion: 70 Resp: 13813

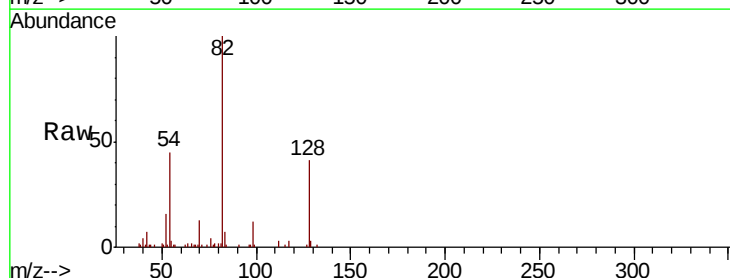
Ion Ratio Lower Upper

70 100

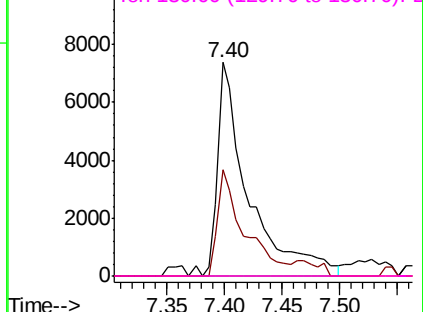
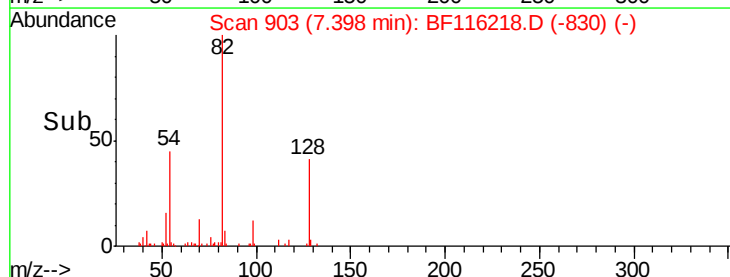
42 50.0 40.9 61.3

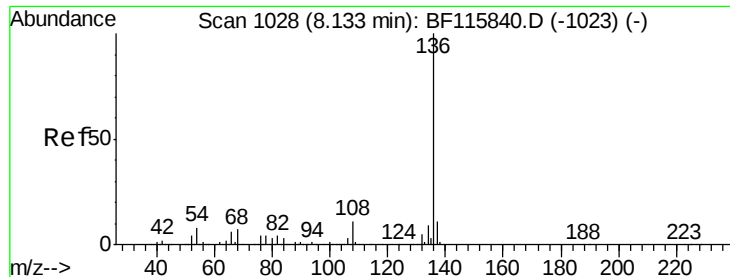
101 0.0 7.9 11.9#

130 0.0 16.9 25.3#



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

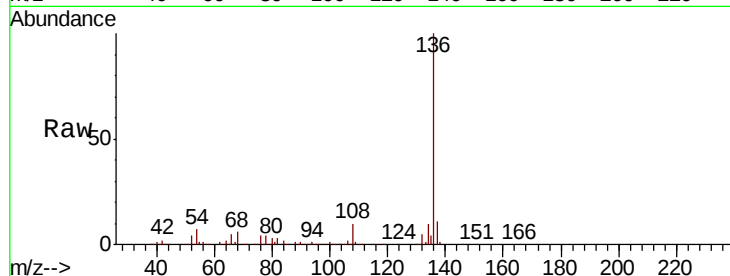




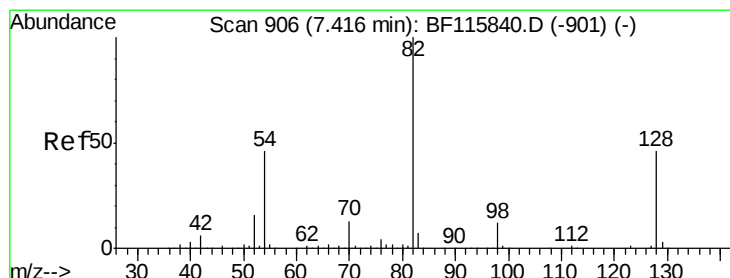
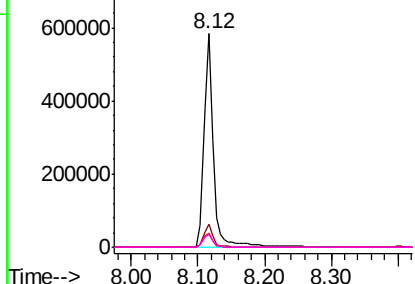
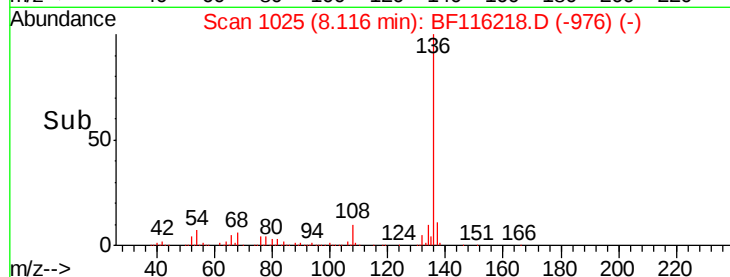
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF116218.D
Acq: 13 Aug 2019 4:38

Instrument :
BNA_F
ClientSampleId :
SU-04-080919-A

Tot Ion:136	Resp:	563687
Ion	Ratio	Lower Upper
136	100	
137	11.0	9.0 13.4
54	6.8	5.8 8.6
68	6.1	5.2 7.8

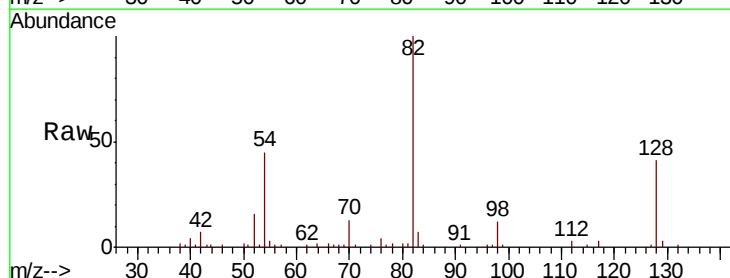


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

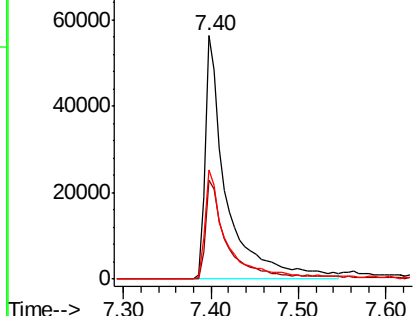
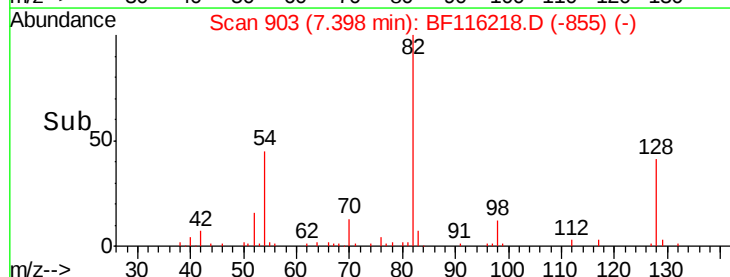


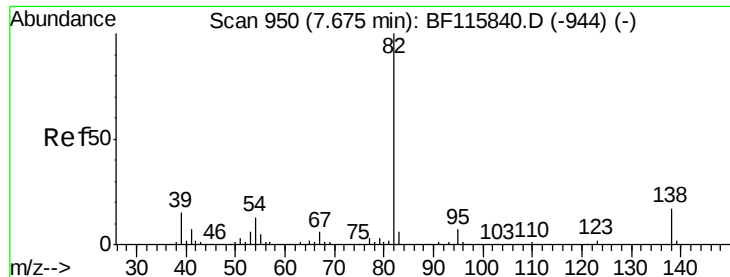
#23
Nitrobenzene-d5
Concen: 9.821 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF116218.D
Acq: 13 Aug 2019 4:38

Tgt Ion: 82	Resp:	95902
Ion	Ratio	Lower Upper
82	100	
128	40.6	36.5 54.7
54	45.0	36.0 54.0



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





#25

Isophorone

Concen: 5.136 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

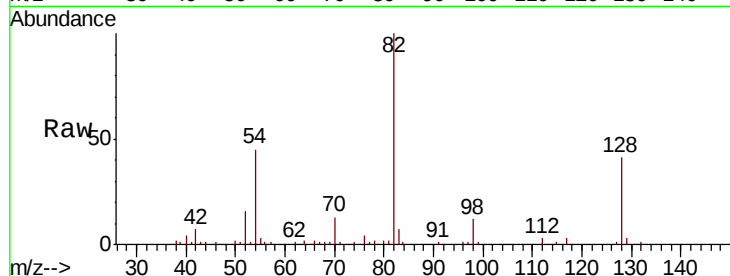
Tot Ion: 82 Resp: 95911

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

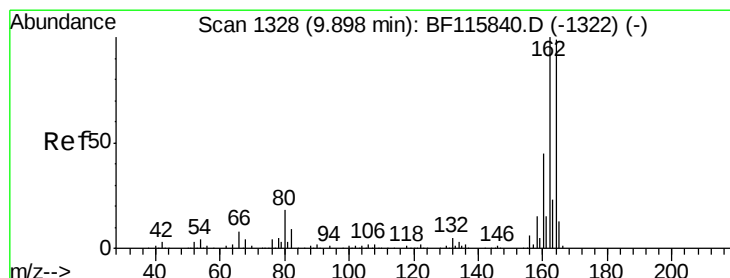
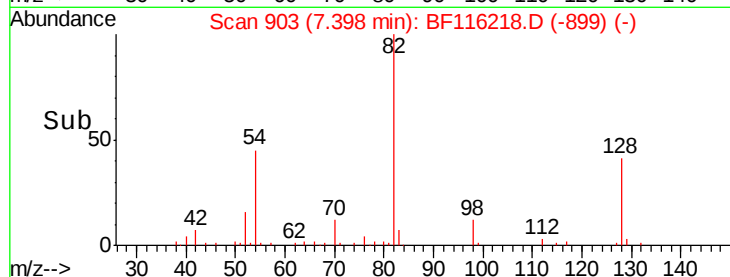
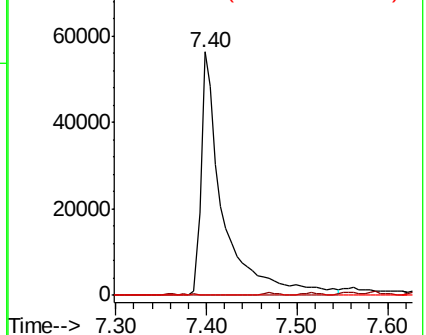
138 0.0 14.5 21.7#



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: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

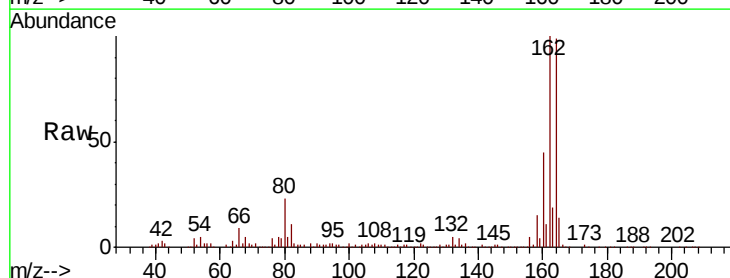
Tgt Ion: 164 Resp: 274783

Ion Ratio Lower Upper

164 100

162 100.6 82.6 124.0

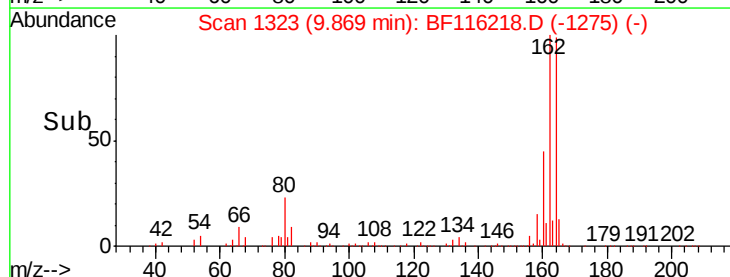
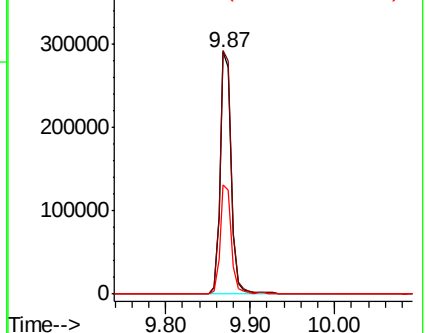
160 45.1 37.6 56.4

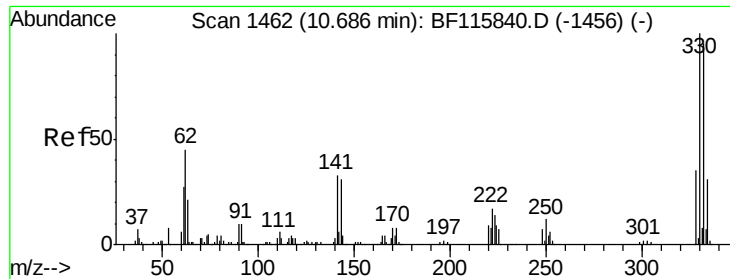


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

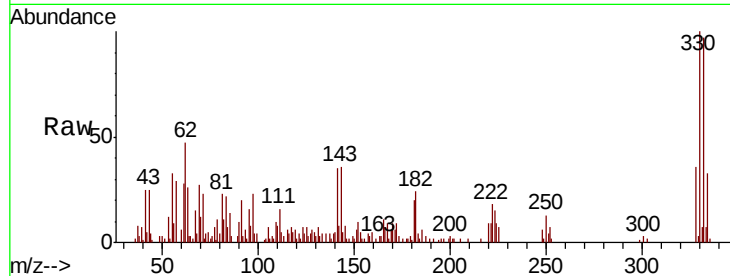




#42
 2,4,6-Tribromophenol
 Concen: 10.904 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116218.D
 Acq: 13 Aug 2019 4:38

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-080919-A

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.8	115.2
141	37.3	26.3	39.5

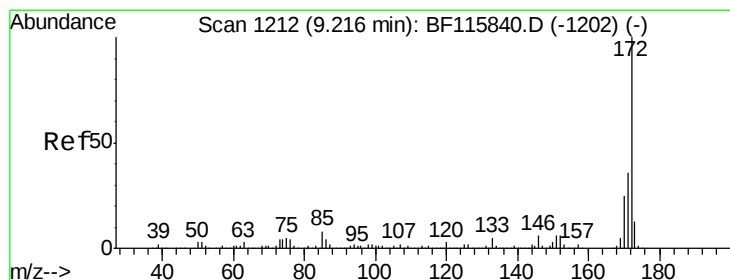
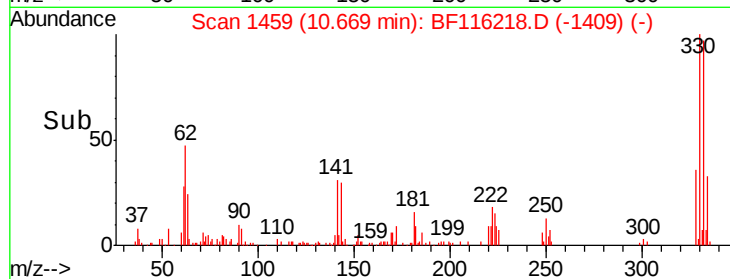
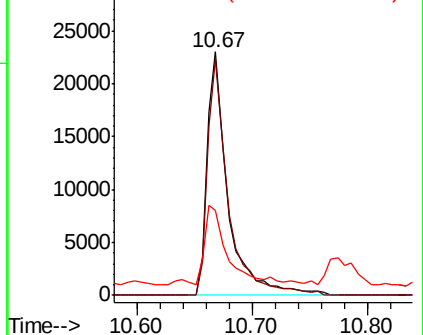


Abundance

Ion 329.80 (329.50 to 330.50): E

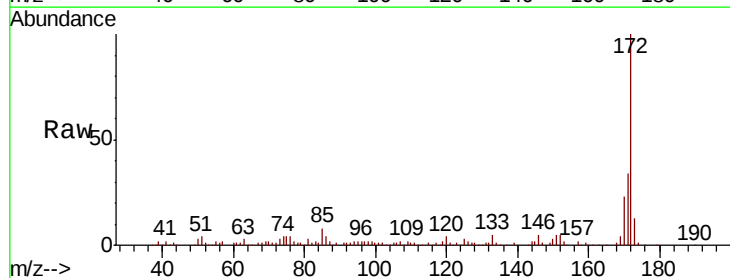
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 13.953 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.02 min
 Lab File: BF116218.D
 Acq: 13 Aug 2019 4:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.6	44.4
170	23.2	20.1	30.1

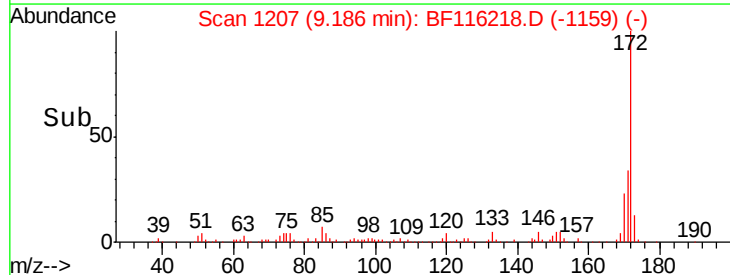
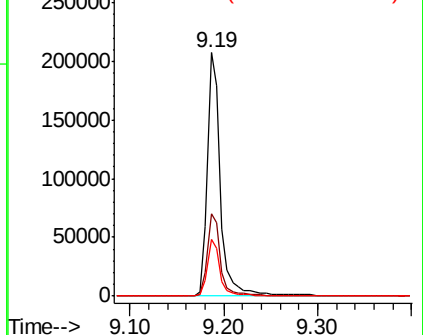


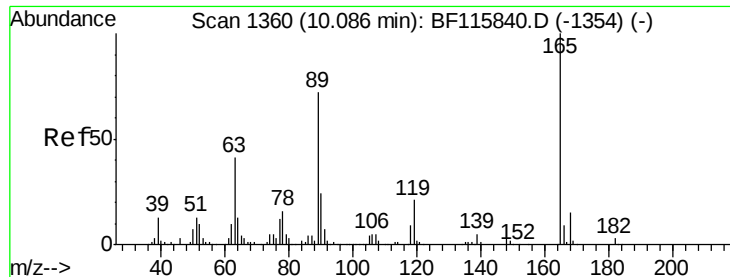
Abundance

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





#57

2,4-Dinitrotoluene

Concen: 6.791 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.21 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

Tot Ion:165 Resp: 36761

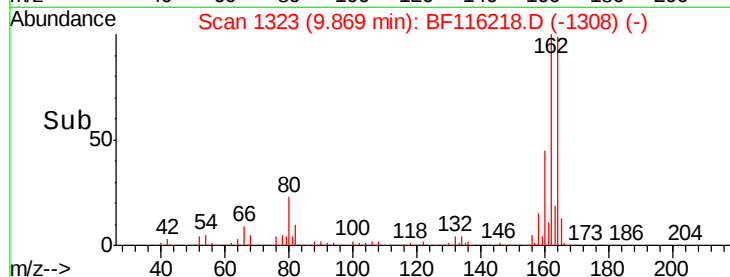
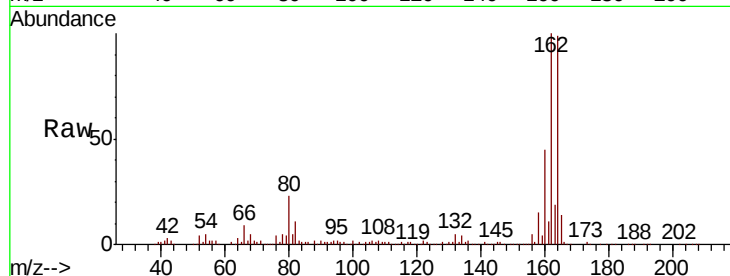
Ion Ratio Lower Upper

165 100

63 1.4 39.6 59.4#

89 1.9 62.2 93.2#

182 1.3 2.1 3.1#

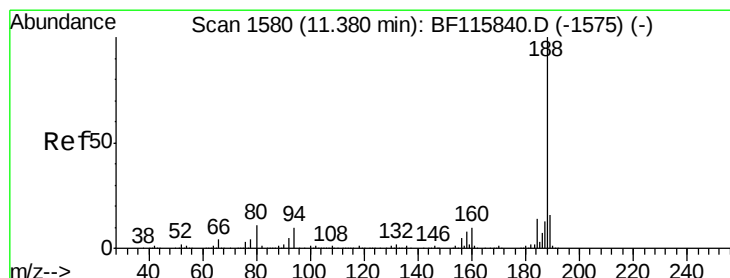
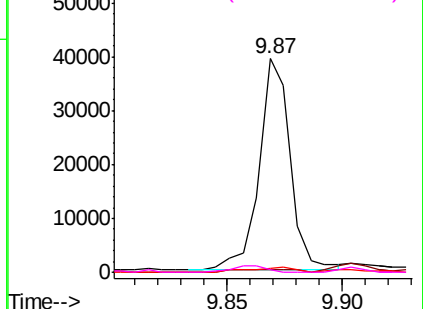


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

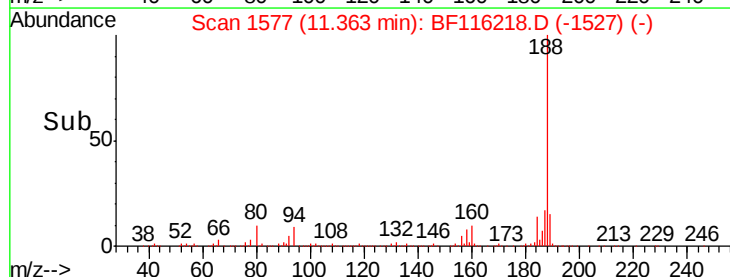
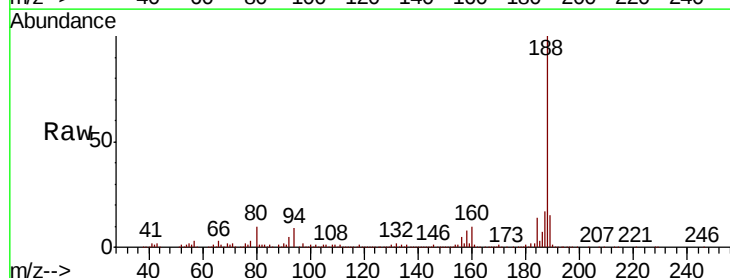
Tgt Ion:188 Resp: 400735

Ion Ratio Lower Upper

188 100

94 9.4 8.1 12.1

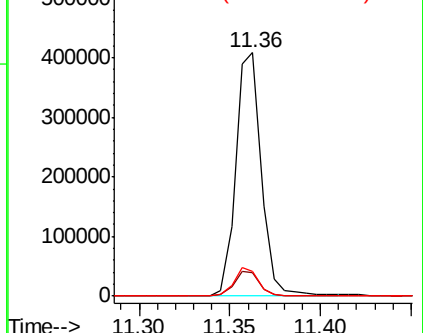
80 10.0 8.7 13.1

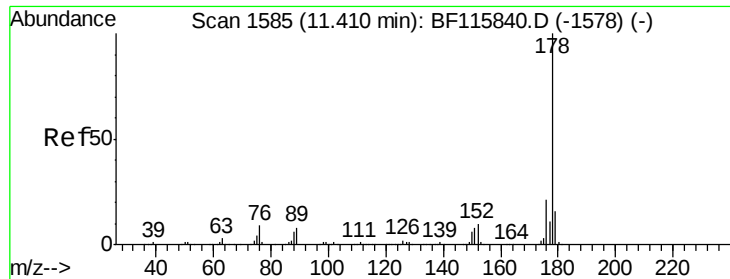


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 9.406 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

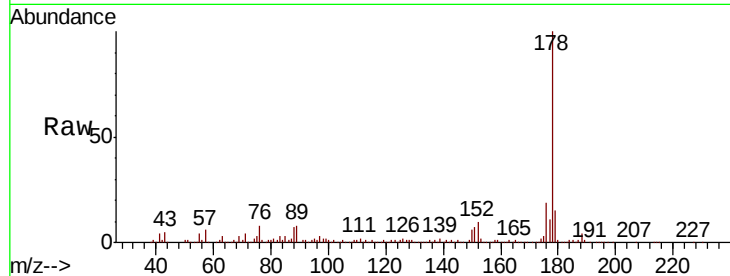
Tot Ion:178 Resp: 192702

Ion Ratio Lower Upper

178 100

176 19.2 16.6 24.8

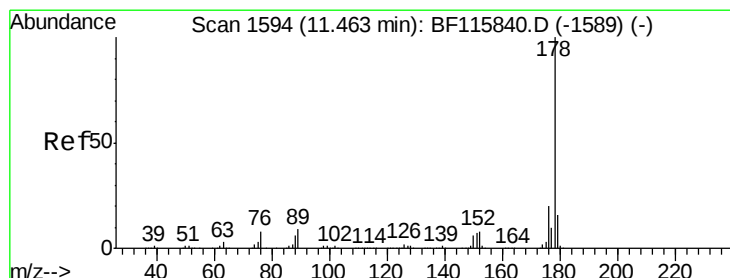
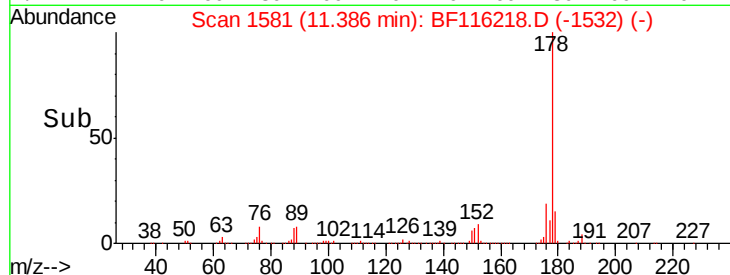
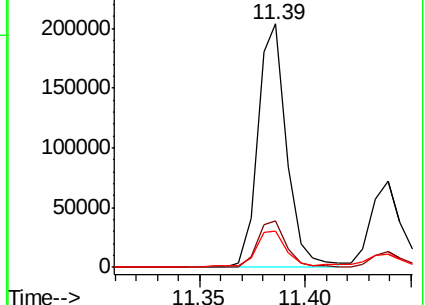
179 15.1 12.5 18.7



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



#72

Anthracene

Concen: 3.586 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

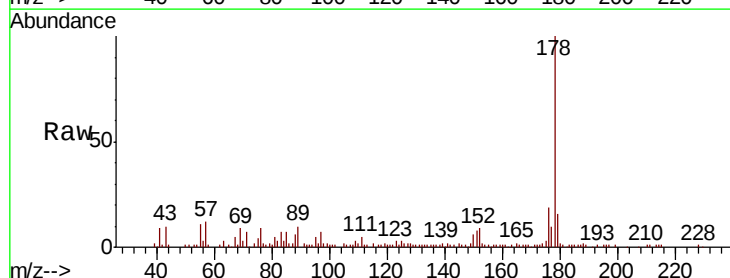
Tgt Ion:178 Resp: 74357

Ion Ratio Lower Upper

178 100

176 18.7 15.7 23.5

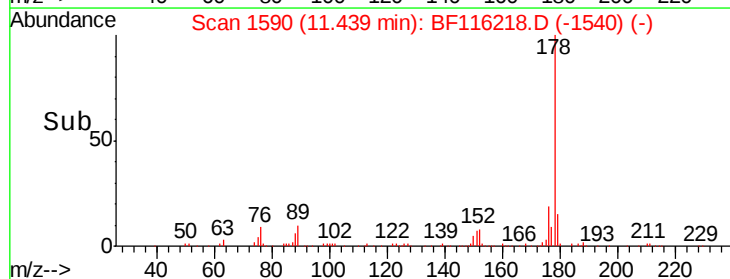
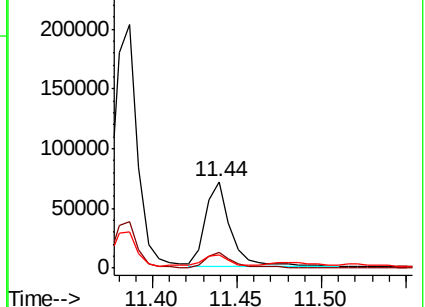
179 15.9 13.0 19.6

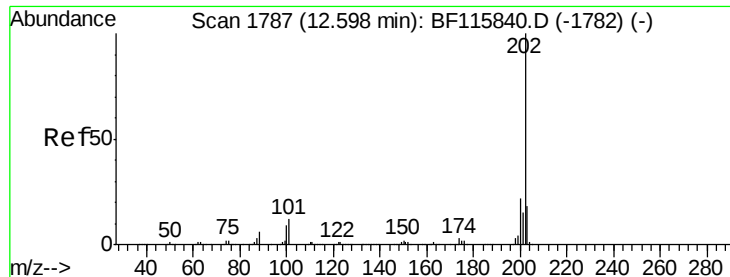


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 12.654 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

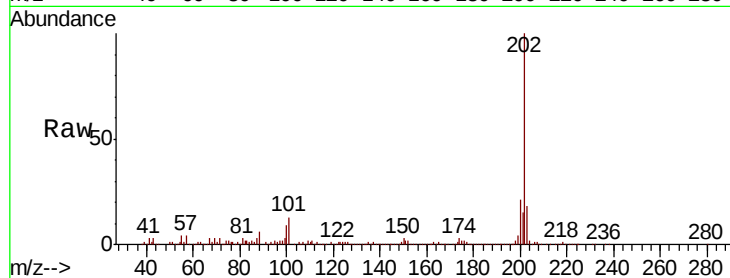
Tot Ion:202 Resp: 271395

Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.2

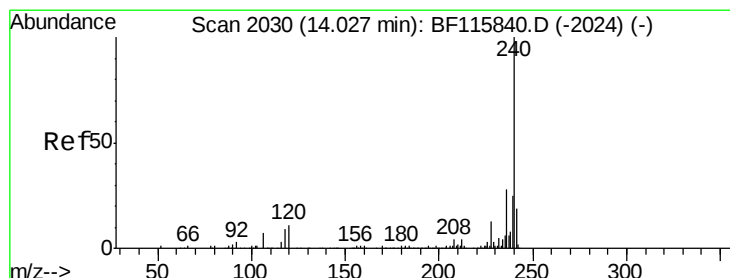
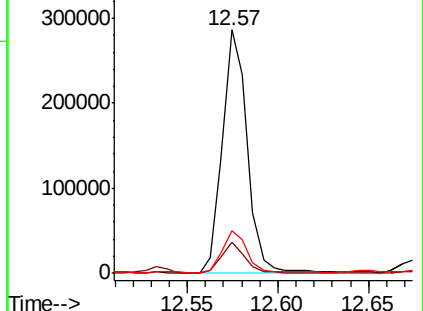
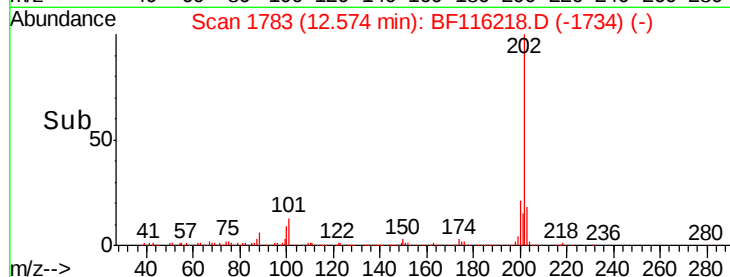
203 17.8 0.0 37.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

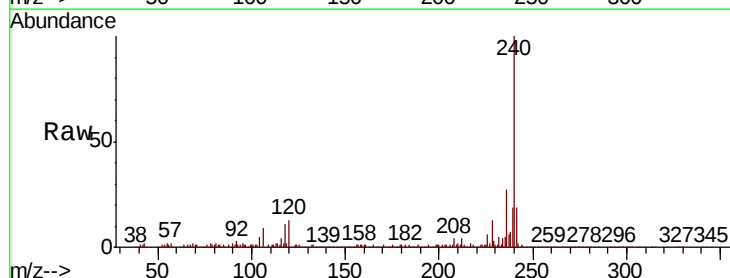
Tgt Ion:240 Resp: 330990

Ion Ratio Lower Upper

240 100

120 12.9 10.7 16.1

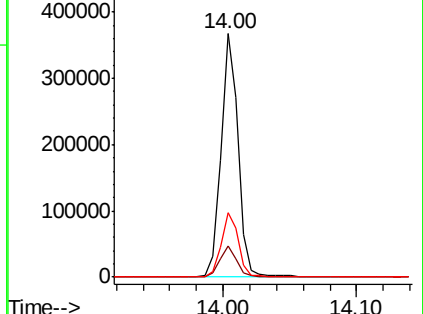
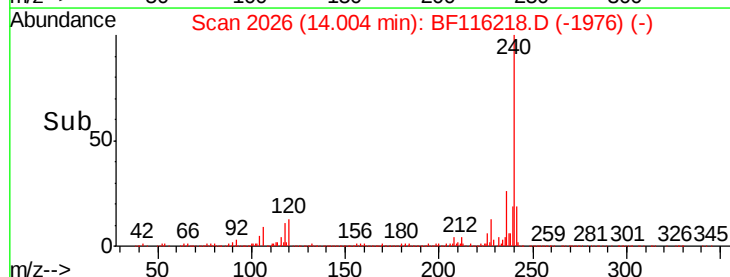
236 26.5 22.2 33.2

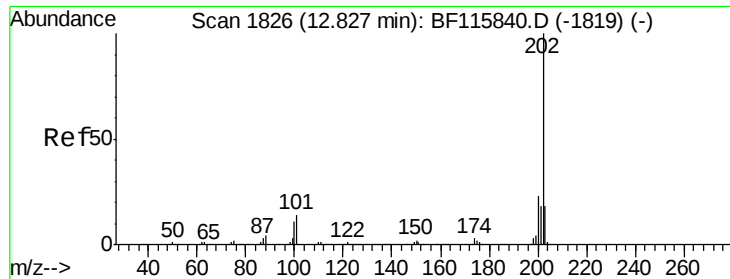


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 9.737 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

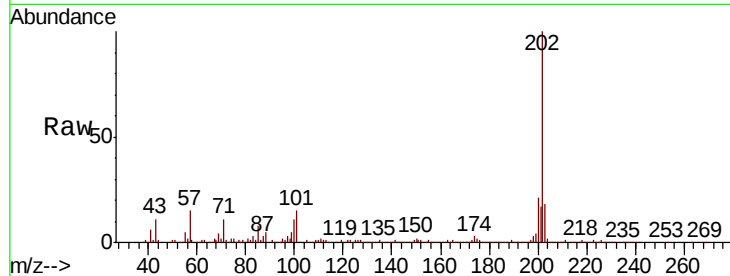
Tot Ion:202 Resp: 242939

Ion Ratio Lower Upper

202 100

200 21.3 18.0 27.0

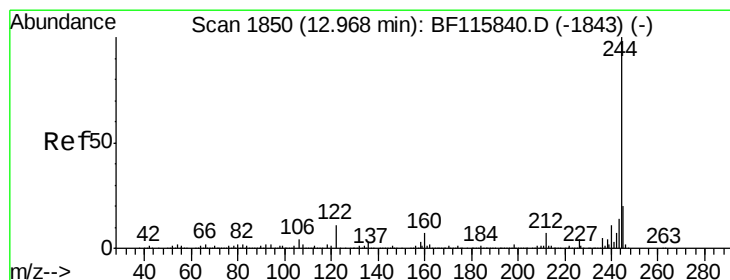
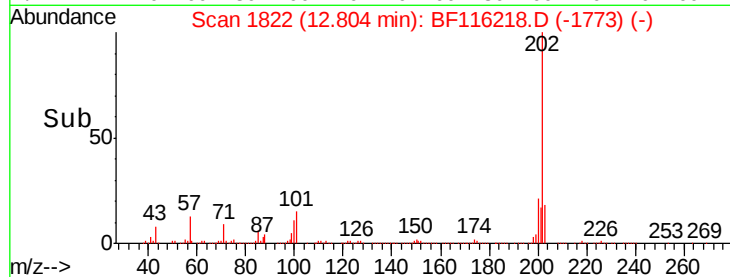
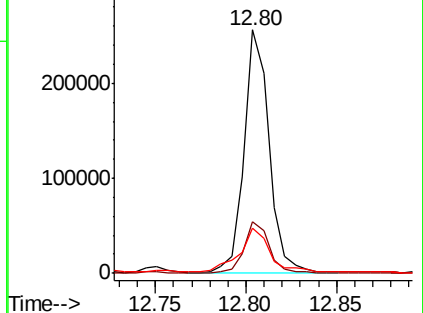
203 18.3 14.1 21.1



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: 10.926 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

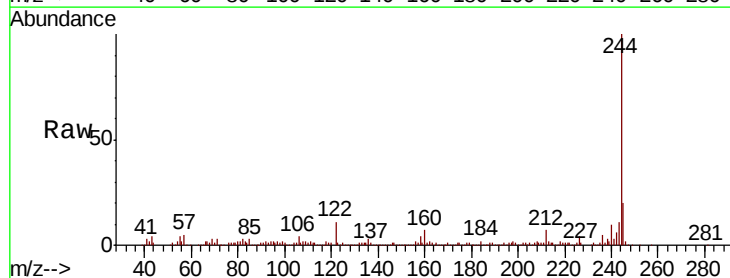
Tgt Ion:244 Resp: 171623

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

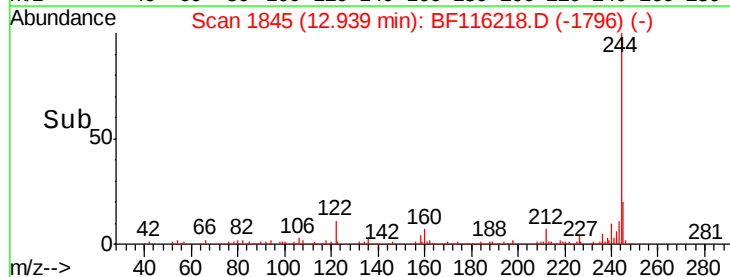
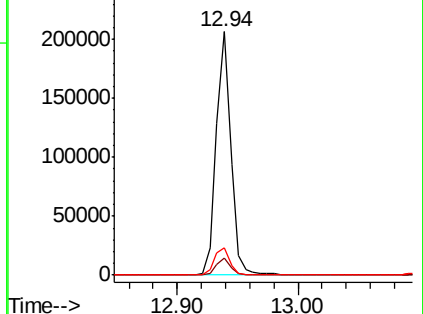
122 11.3 9.0 13.4

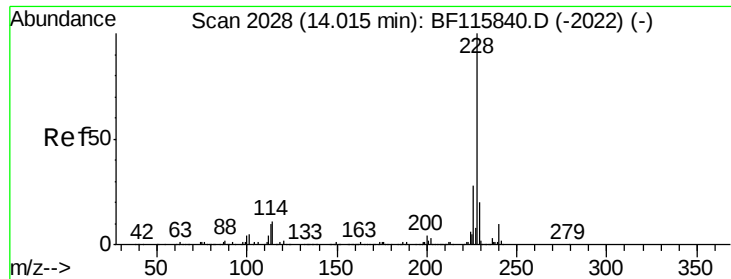


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

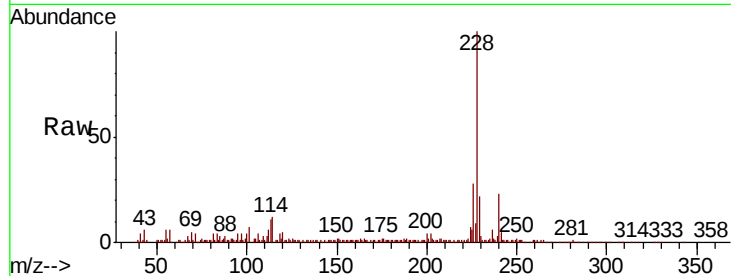




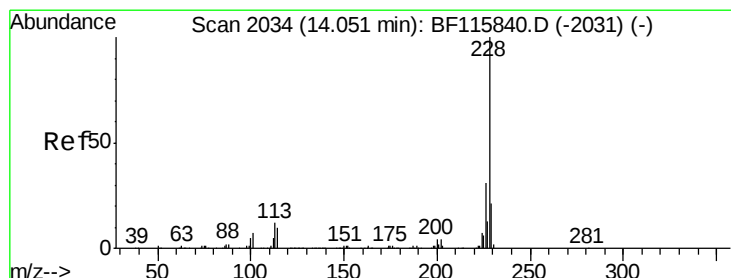
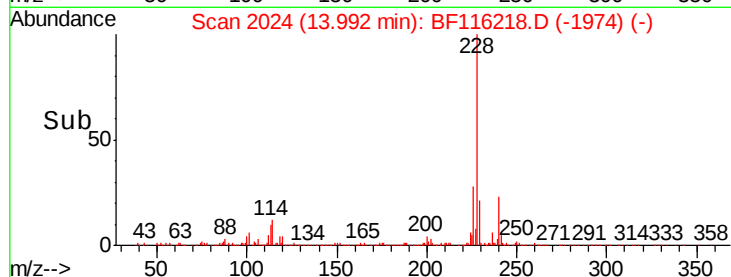
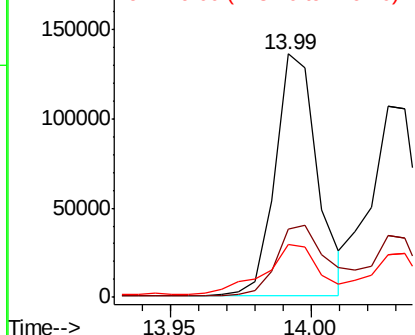
#81
Benzo(a)anthracene
Concen: 6.662 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116218.D
Acq: 13 Aug 2019 4:38

Instrument :
BNA_F
ClientSampleId :
SU-04-080919-A

Tot Ion:228 Resp: 140933
Ion Ratio Lower Upper
228 100
226 28.2 22.7 34.1
229 21.7 16.2 24.4

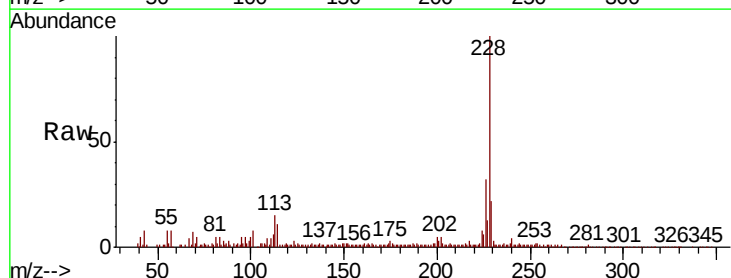


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

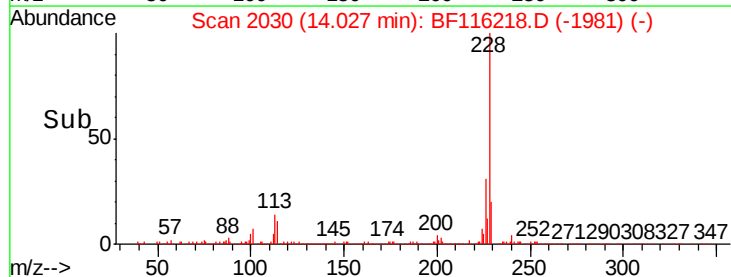
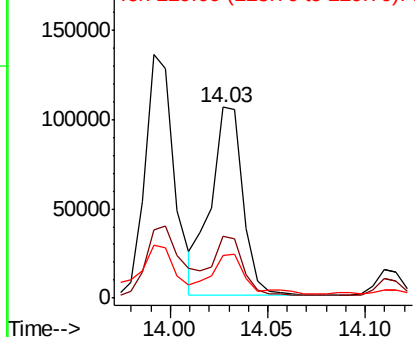


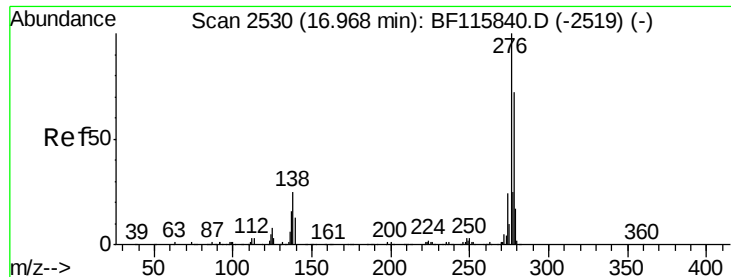
#83
Chrysene
Concen: 5.910 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF116218.D
Acq: 13 Aug 2019 4:38

Tgt Ion:228 Resp: 121392
Ion Ratio Lower Upper
228 100
226 32.2 25.5 38.3
229 22.1 16.6 24.8



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

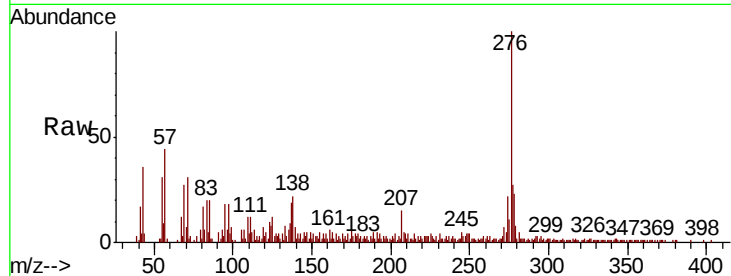




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.238 ng
 RT: 16.96 min Scan# 2529
 Delta R.T. 0.01 min
 Lab File: BF116218.D
 Acq: 13 Aug 2019 4:38

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-080919-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.1	20.4	30.6
277	21.5	20.0	30.0

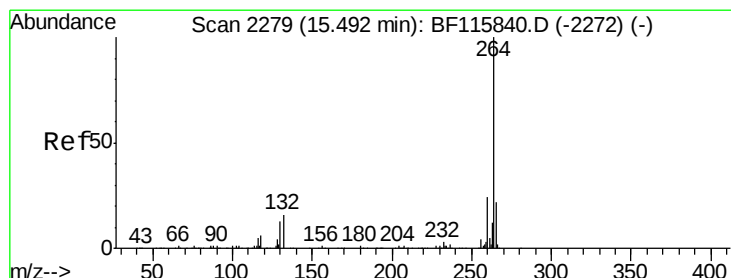
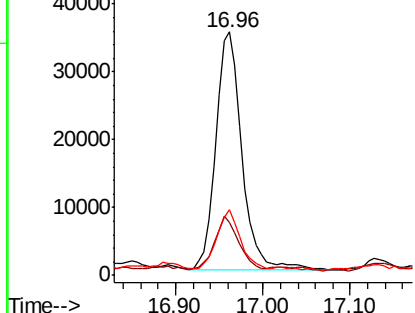
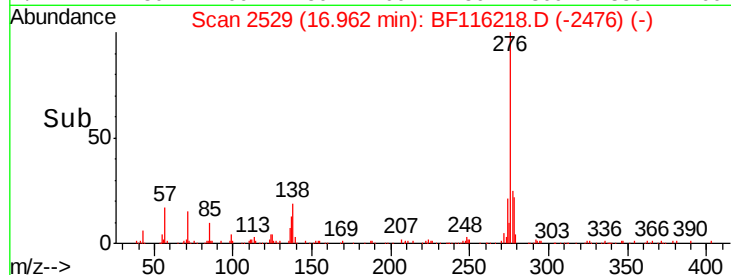


Abundance

Ion 276.00 (275.70 to 276.70): E

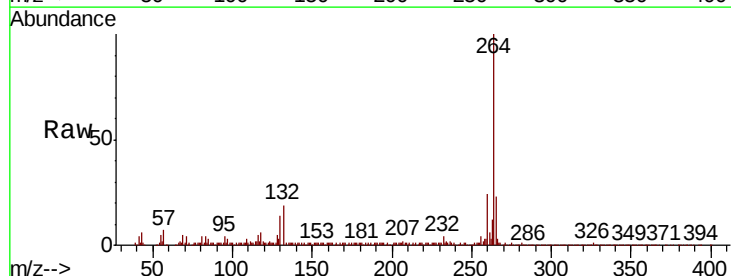
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. -0.00 min
 Lab File: BF116218.D
 Acq: 13 Aug 2019 4:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.7	29.5
265	22.9	17.4	26.0

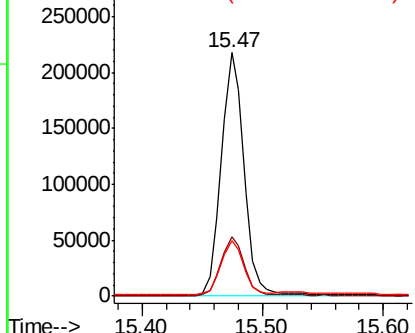
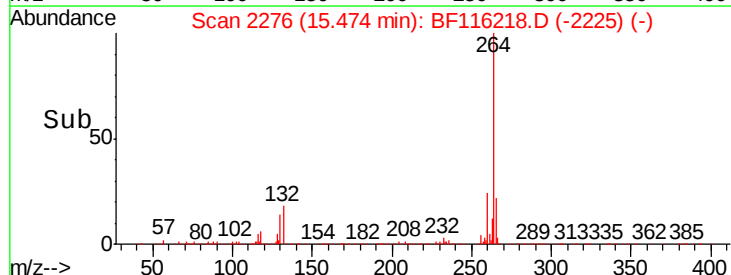


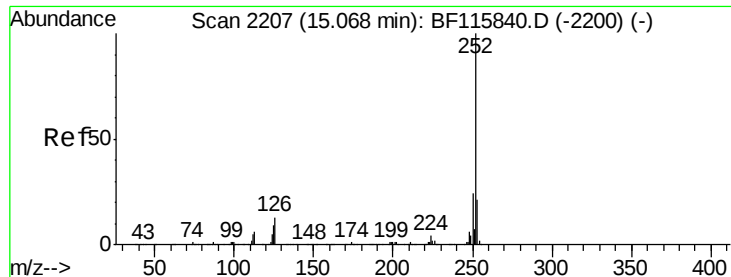
Abundance

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: 13.010 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.00 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

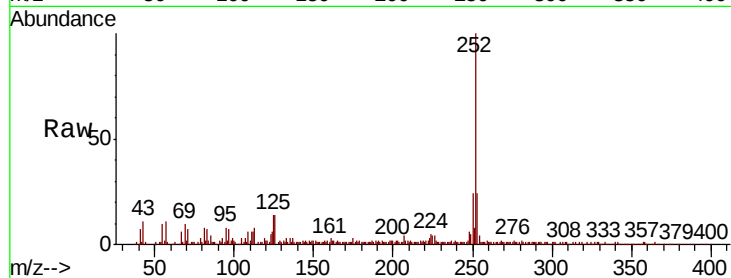
Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

Tot Ion:	252	Resp:	212203
Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.8
125	14.1	8.4	12.6#

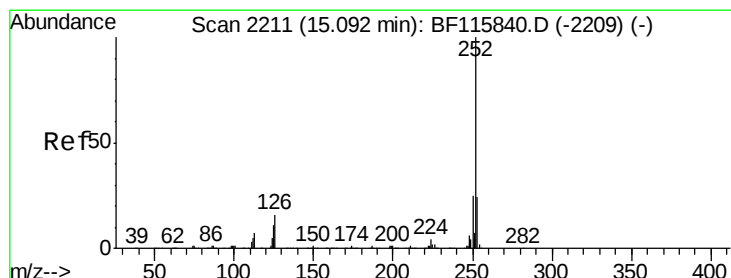
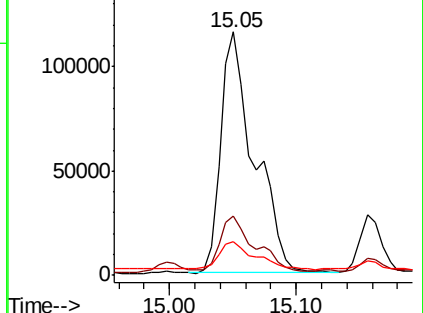
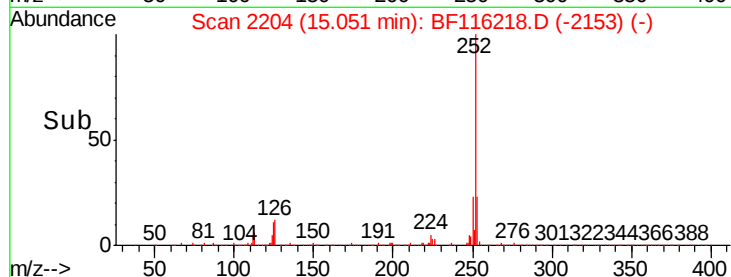


Abundance

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: 13.357 ng

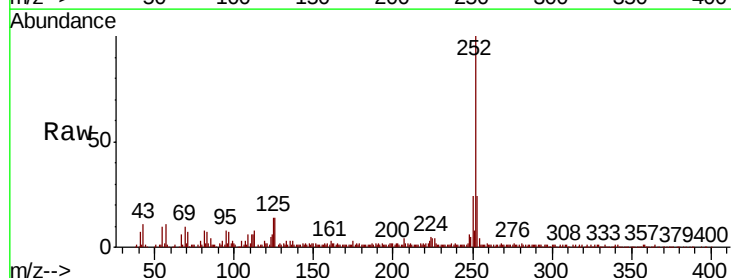
RT: 15.05 min Scan# 2204

Delta R.T. -0.03 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Tgt Ion:	252	Resp:	212203
Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.8
125	14.1	7.7	11.5#

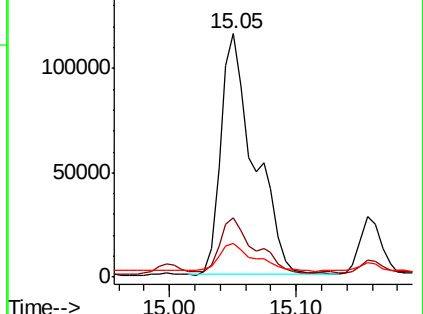
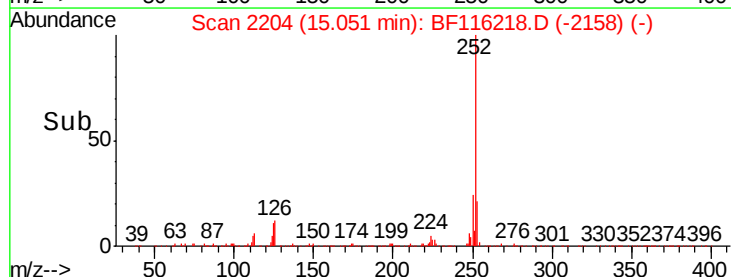


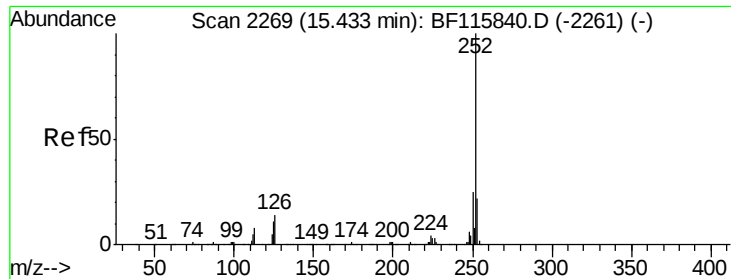
Abundance

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





#90

Benzo(a)pyrene

Concen: 7.526 ng

RT: 15.42 min Scan# 2266

Delta R.T. -0.00 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

Instrument :

BNA_F

ClientSampleId :

SU-04-080919-A

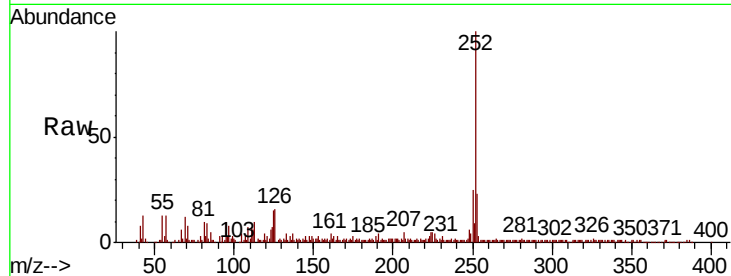
Tot Ion:252 Resp: 109728

Ion Ratio Lower Upper

252 100

253 23.4 18.0 27.0

125 14.6 8.9 13.3#

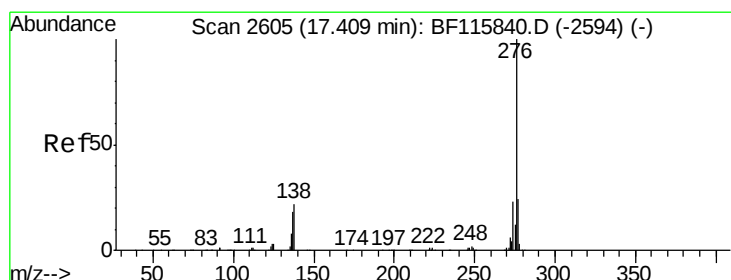
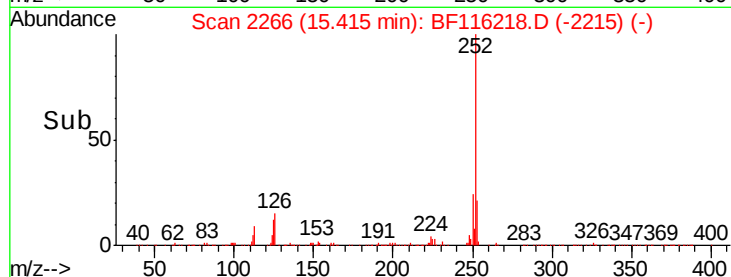
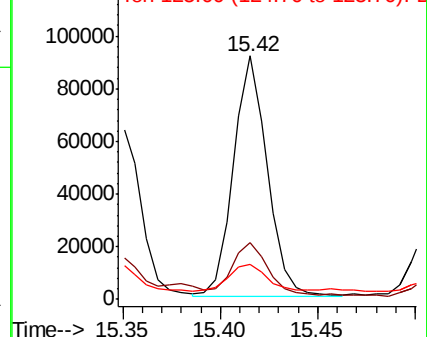


Abundance

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



#92

Benzo(g,h,i)perylene

Concen: 5.697 ng

RT: 17.41 min Scan# 2605

Delta R.T. 0.02 min

Lab File: BF116218.D

Acq: 13 Aug 2019 4:38

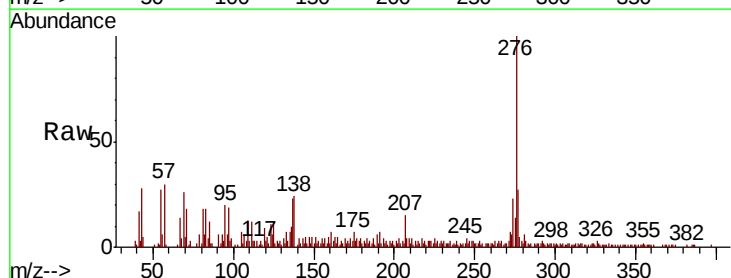
Tgt Ion:276 Resp: 70614

Ion Ratio Lower Upper

276 100

277 26.9 18.4 27.6

138 24.1 17.0 25.6



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

