

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082119\
 Data File : BF116464.D
 Acq On : 21 Aug 2019 14:35
 Operator : HP/JU
 Sample : K4421-05
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 21 16:16:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 06:03:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	88460	20.00	ng	-0.02
21) Naphthalene-d8	8.07	136	348697	20.00	ng	-0.02
39) Acenaphthene-d10	9.83	164	179602	20.00	ng	-0.02
64) Phenanthrene-d10	11.32	188	298025	20.00	ng	-0.02
76) Chrysene-d12	13.96	240	230313	20.00	ng	-0.02
87) Perylene-d12	15.42	264	218449	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	539725	102.14	ng	-0.02
7) Phenol-d6	6.45	99	740213	111.03	ng	-0.02
23) Nitrobenzene-d5	7.36	82	426965	70.68	ng	-0.03
42) 2,4,6-Tribromophenol	10.62	330	151914	87.24	ng	-0.02
45) 2-Fluorobiphenyl	9.15	172	703164	73.33	ng	-0.02
79) Terphenyl-d14	12.90	244	720917	65.96	ng	-0.02

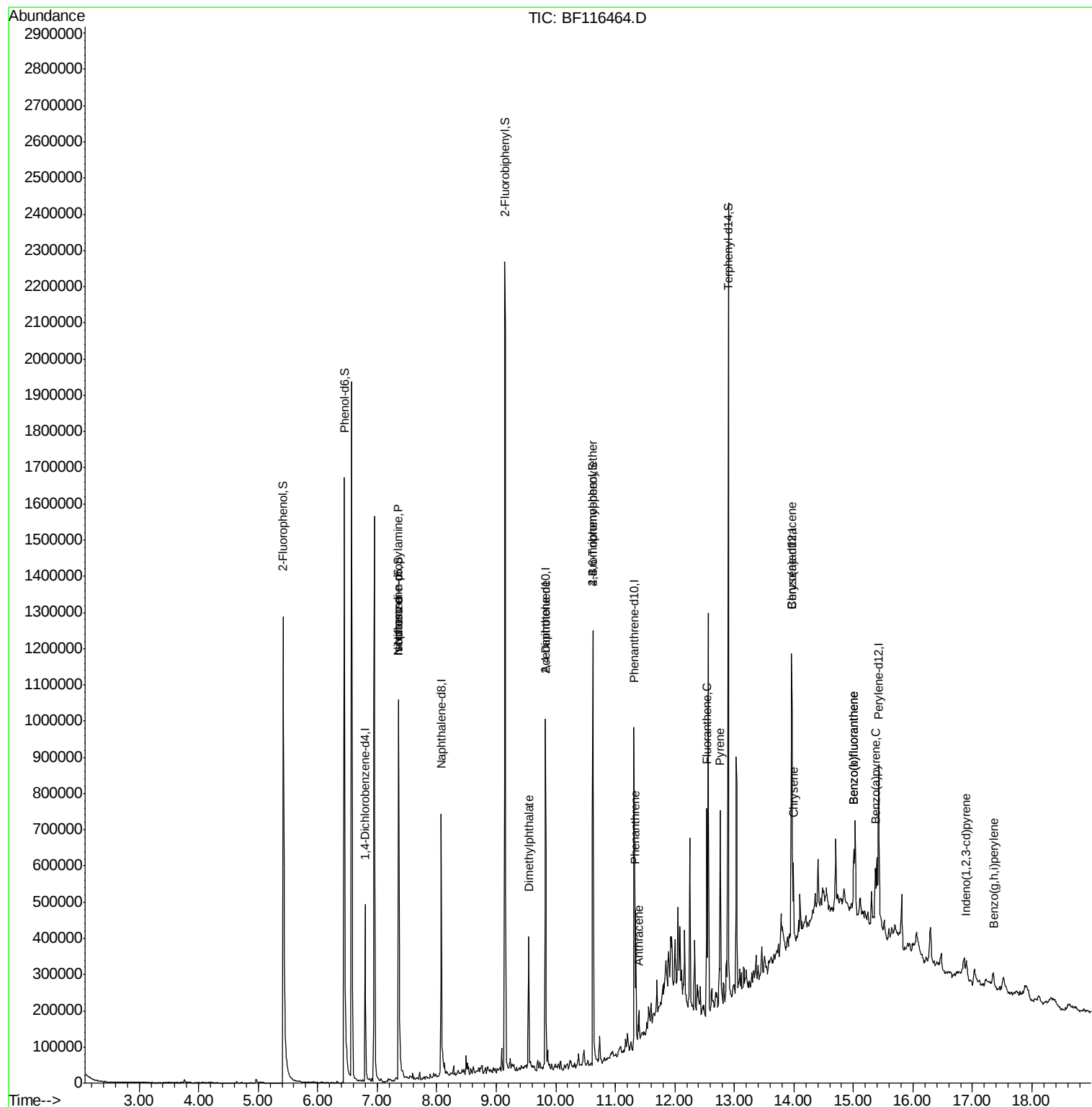
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.36	70	54235	13.128	ng	# 81
25) Isophorone	7.36	82	427001	36.966	ng	# 65
50) Dimethylphthalate	9.55	163	129270	10.571	ng	98
57) 2,4-Dinitrotoluene	9.83	165	24264	6.858	ng	# 20
67) 4-Bromophenyl-phenylether	10.62	248	8964	2.810	ng	# 1
71) Phenanthrene	11.34	178	145096	9.523	ng	98
72) Anthracene	11.40	178	38167	2.475	ng	99
75) Fluoranthene	12.53	202	218983	13.729	ng	99
78) Pyrene	12.76	202	208248	11.995	ng	98
81) Benzo(a)anthracene	13.96	228	99937	6.789	ng	99
83) Chrysene	13.99	228	89881	6.289	ng	98
86) Indeno(1,2,3-cd)pyrene	16.90	276	30969	2.580	ng	95
88) Benzo(b)fluoranthene	15.00	252	127047	10.058	ng	# 91
89) Benzo(k)fluoranthene	15.00	252	127047	10.327	ng	# 91
90) Benzo(a)pyrene	15.37	252	72185	6.393	ng	# 93
92) Benzo(g,h,i)perylene	17.35	276	29616	3.085	ng	# 86

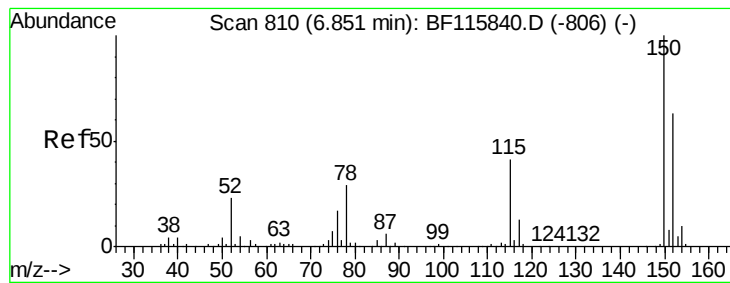
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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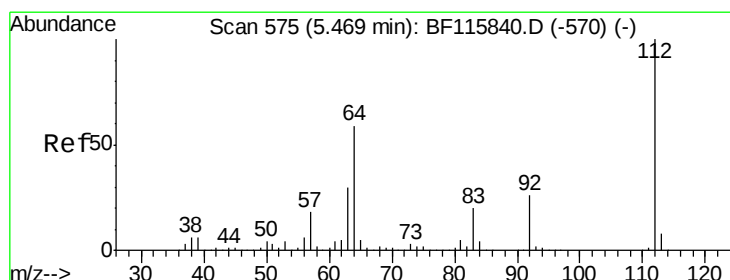
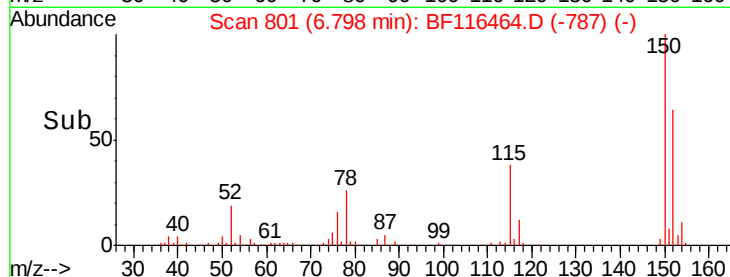
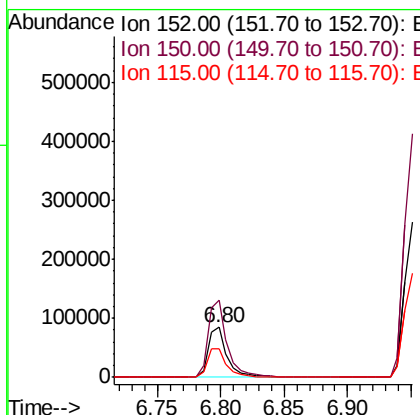
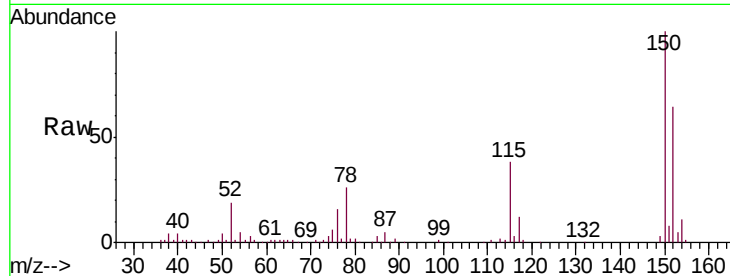




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 801
 Delta R.T. -0.02 min
 Lab File: BF116464.D
 Acq: 21 Aug 2019 14:35

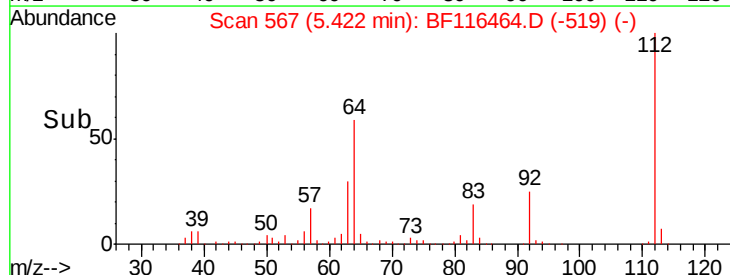
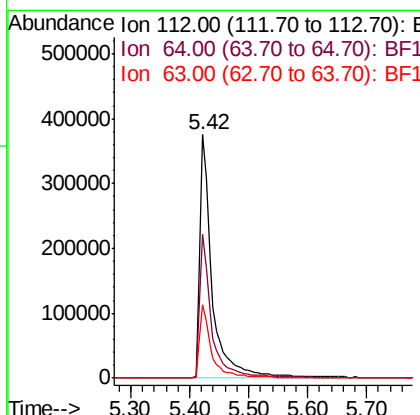
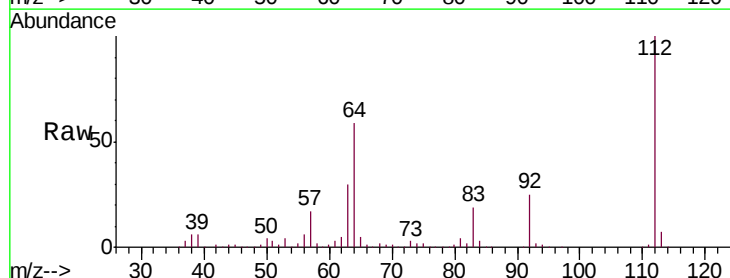
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 88460
 Ion Ratio Lower Upper
 152 100
 150 155.1 126.2 189.2
 115 58.5 49.9 74.9



#5
 2-Fluorophenol
 Concen: 102.140 ng
 RT: 5.42 min Scan# 567
 Delta R.T. -0.02 min
 Lab File: BF116464.D
 Acq: 21 Aug 2019 14:35

Tgt Ion:112 Resp: 539725
 Ion Ratio Lower Upper
 112 100
 64 59.0 45.4 68.2
 63 30.0 23.7 35.5





#7

Phenol-d6

Concen: 111.028 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampleId :

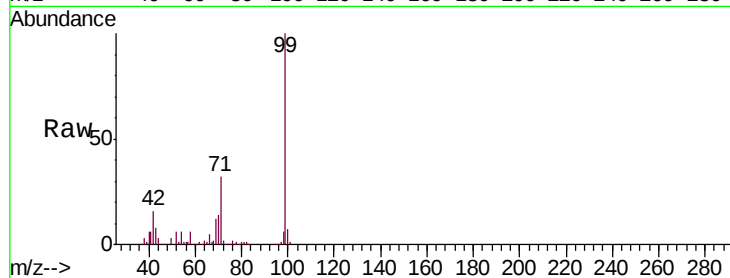
Tot Ion: 99 Resp: 740213

Ion Ratio Lower Upper

99 100

42 15.8 13.8 20.8

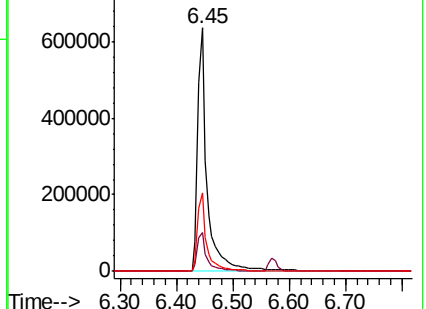
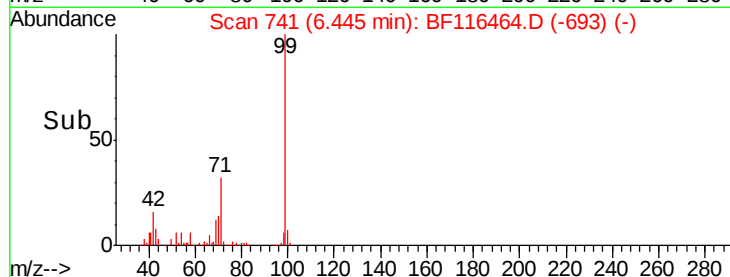
71 32.3 27.3 40.9



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: 13.128 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.12 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Tgt Ion: 70 Resp: 54235

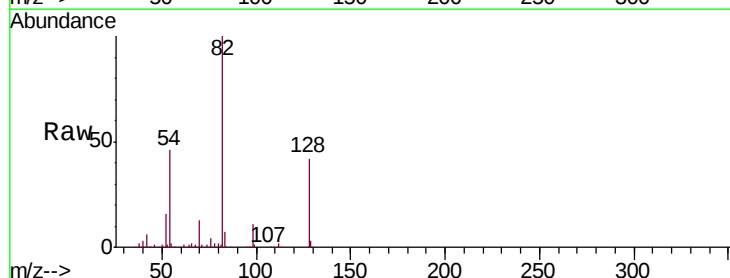
Ion Ratio Lower Upper

70 100

42 44.9 40.9 61.3

101 0.0 7.9 11.9#

130 2.4 16.9 25.3#

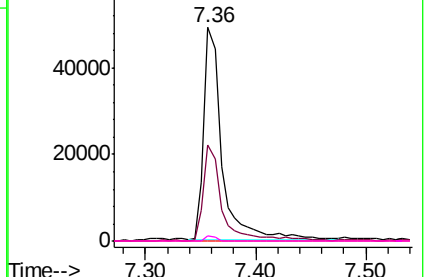
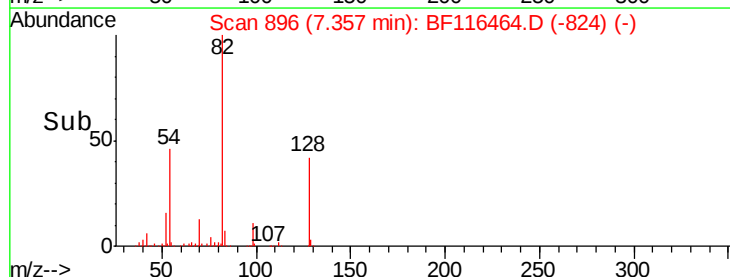


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.07 min Scan# 1018

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 348697

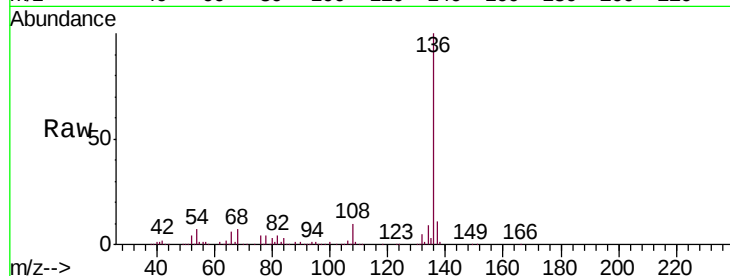
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.1 5.8 8.6

68 6.6 5.2 7.8

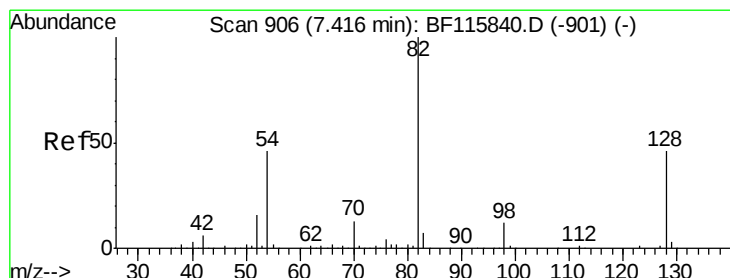
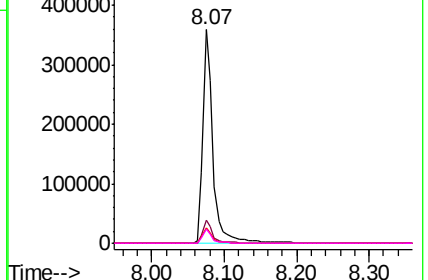
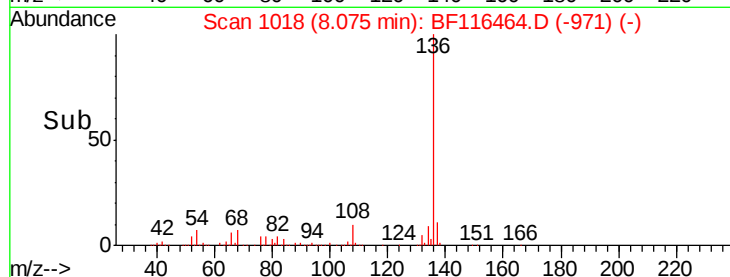


Abundance Ion 136.00 (135.70 to 136.70): E

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: 70.680 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.03 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

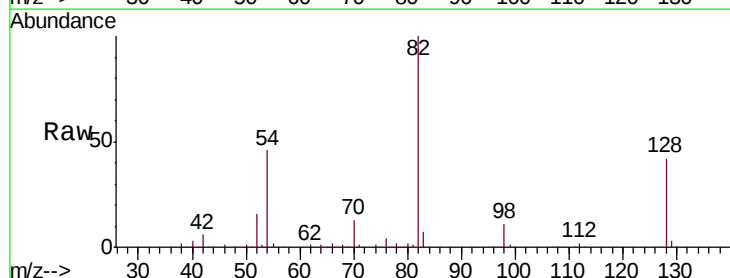
Tgt Ion: 82 Resp: 426965

Ion Ratio Lower Upper

82 100

128 41.6 36.5 54.7

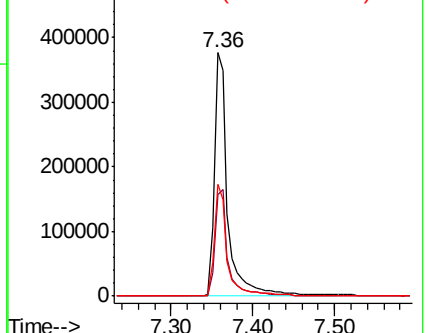
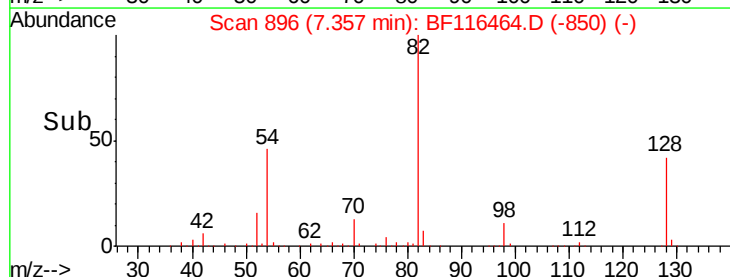
54 46.1 36.0 54.0



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: 36.966 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.28 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampled :

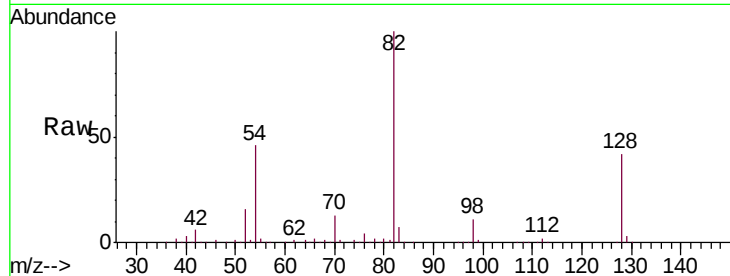
Tot Ion: 82 Resp: 427001

Ion Ratio Lower Upper

82 100

95 0.2 5.4 8.0#

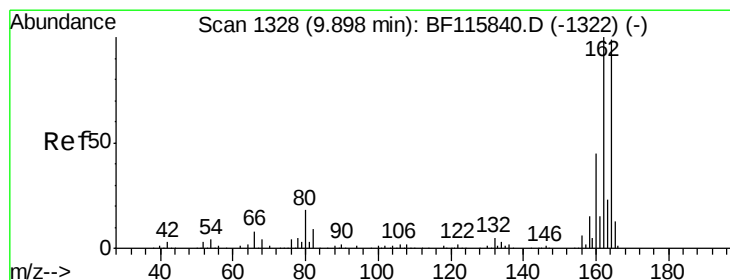
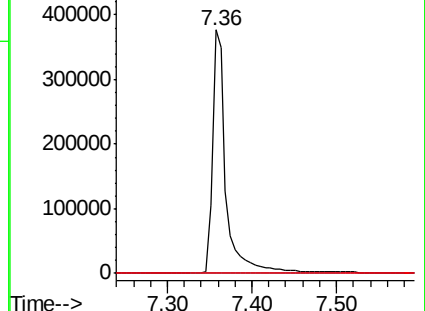
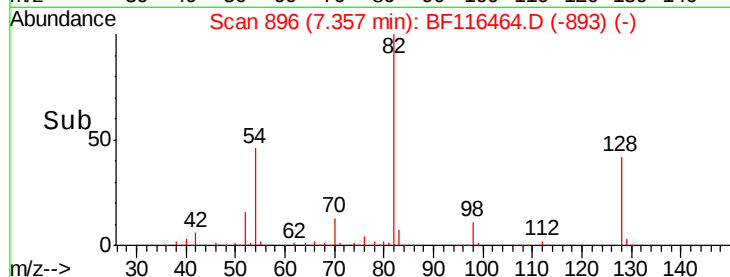
138 0.0 14.5 21.7#



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: 9.83 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

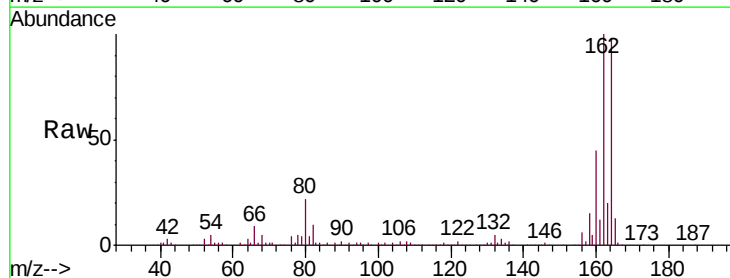
Tgt Ion: 164 Resp: 179602

Ion Ratio Lower Upper

164 100

162 101.7 82.6 124.0

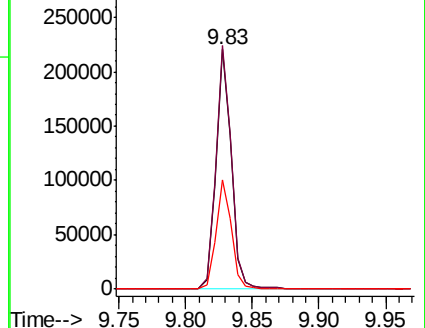
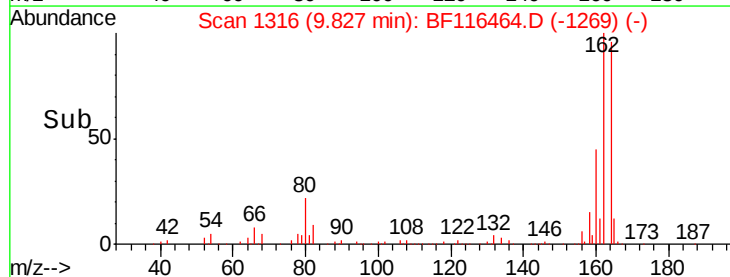
160 45.5 37.6 56.4



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: 87.242 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampleId :

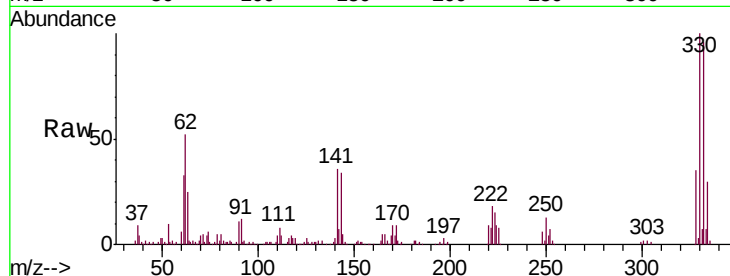
Tot Ion:330 Resp: 151914

Ion Ratio Lower Upper

330 100

332 94.9 76.8 115.2

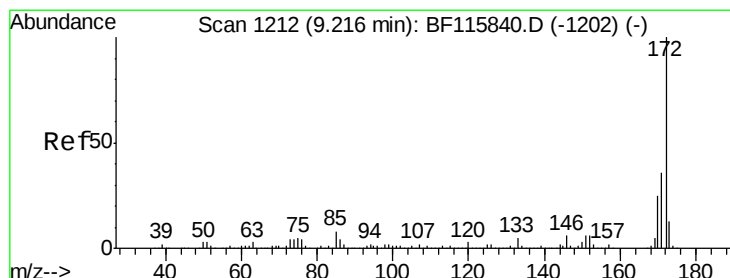
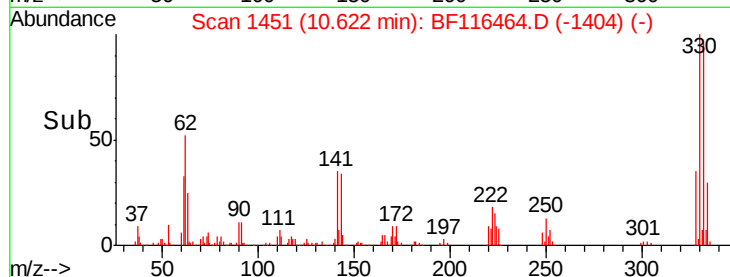
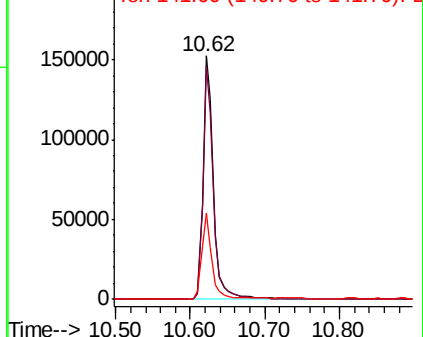
141 33.8 26.3 39.5



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: 73.333 ng

RT: 9.15 min Scan# 1200

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

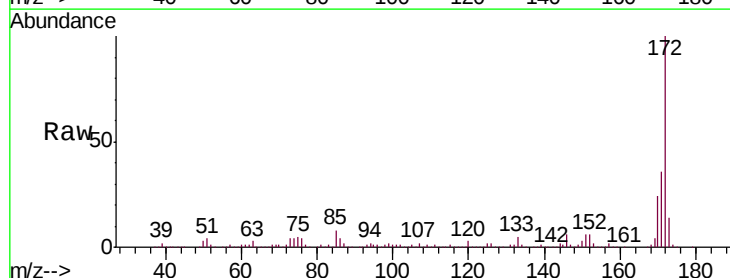
Tgt Ion:172 Resp: 703164

Ion Ratio Lower Upper

172 100

171 35.7 29.6 44.4

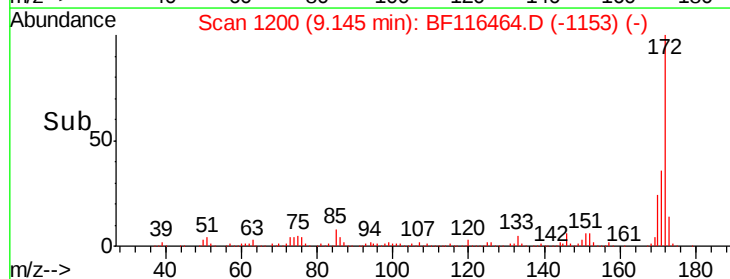
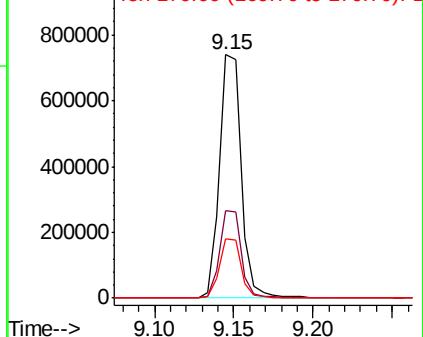
170 24.4 20.1 30.1

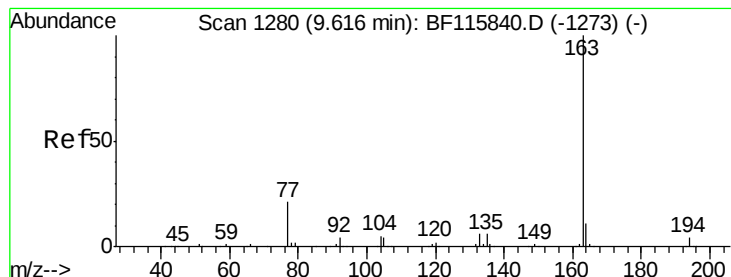


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 10.571 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampleId :

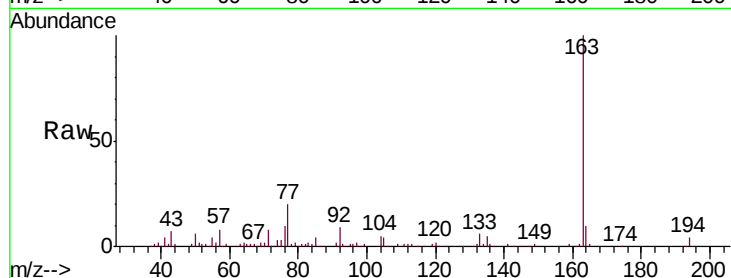
Tot Ion:163 Resp: 129270

Ion Ratio Lower Upper

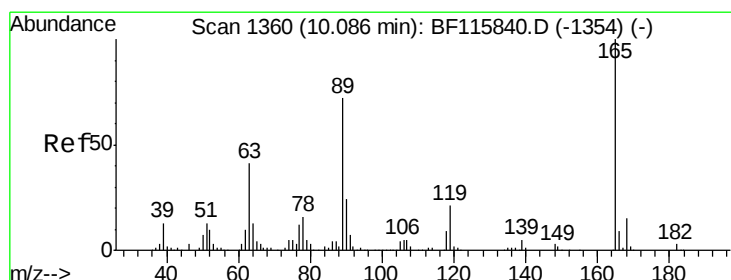
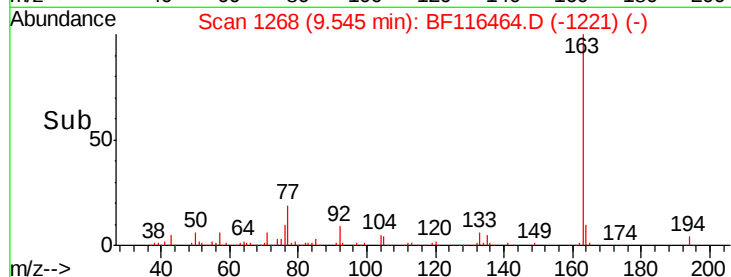
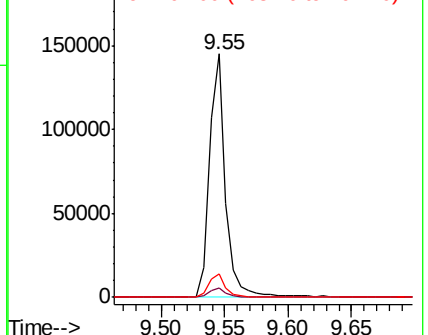
163 100

194 3.9 3.0 4.6

164 9.7 8.4 12.6



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



#57

2,4-Dinitrotoluene

Concen: 6.858 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.22 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Tgt Ion:165 Resp: 24264

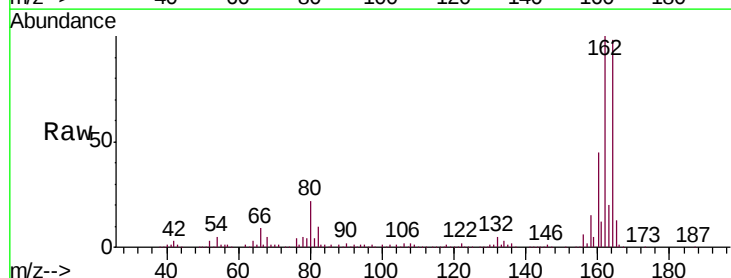
Ion Ratio Lower Upper

165 100

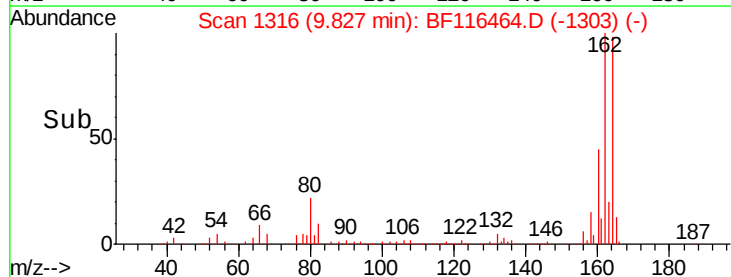
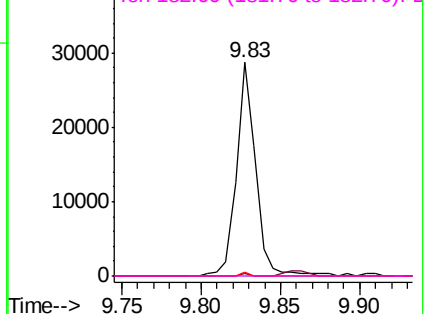
63 1.2 39.6 59.4#

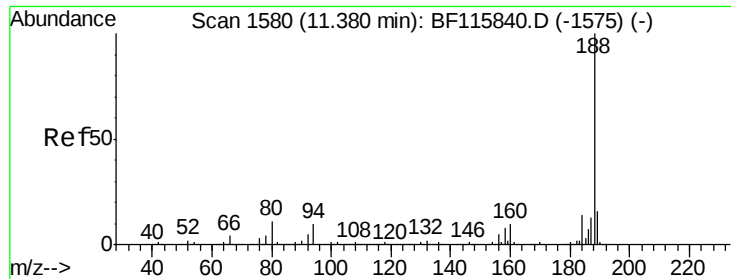
89 1.5 62.2 93.2#

182 0.0 2.1 3.1#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampleId :

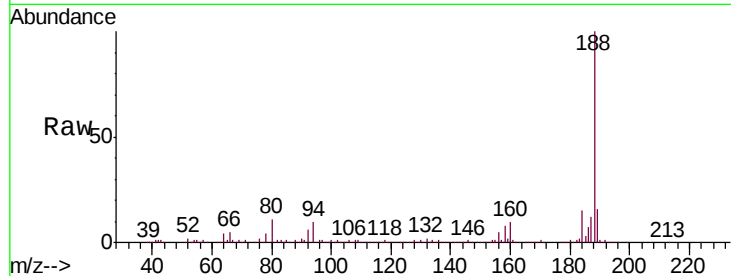
Tot Ion:188 Resp: 298025

Ion Ratio Lower Upper

188 100

94 10.3 8.1 12.1

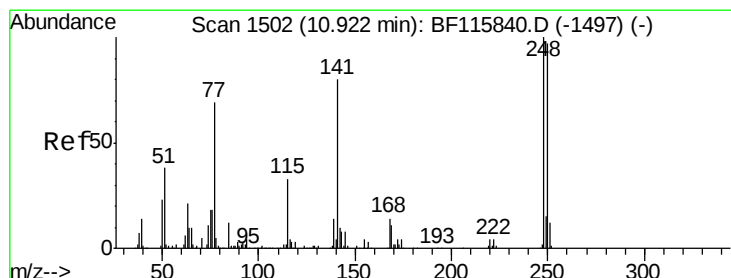
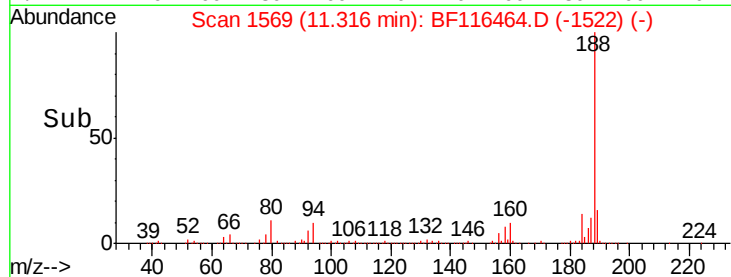
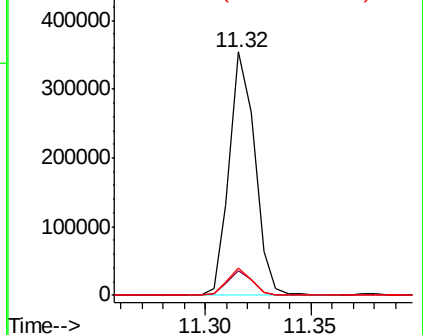
80 11.2 8.7 13.1



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



#67

4-Bromophenyl-phenylether

Concen: 2.810 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.25 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

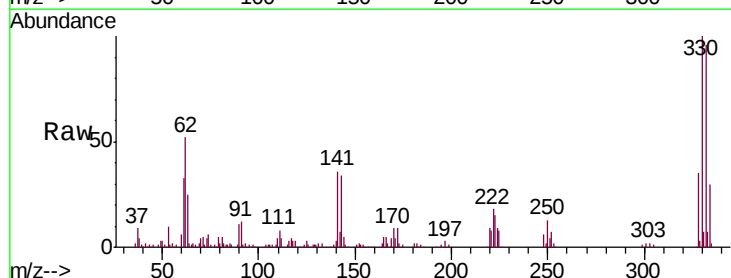
Tgt Ion:248 Resp: 8964

Ion Ratio Lower Upper

248 100

250 199.9 77.4 116.2#

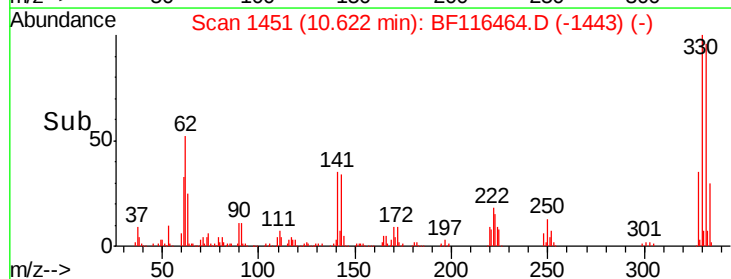
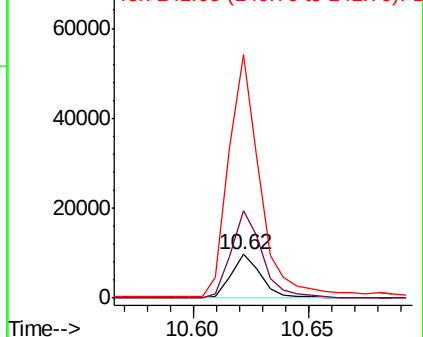
141 554.8 56.8 85.2#

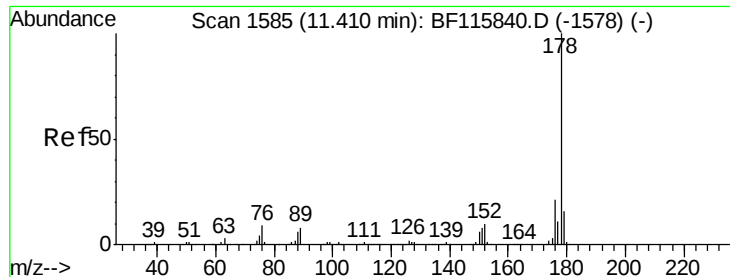


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

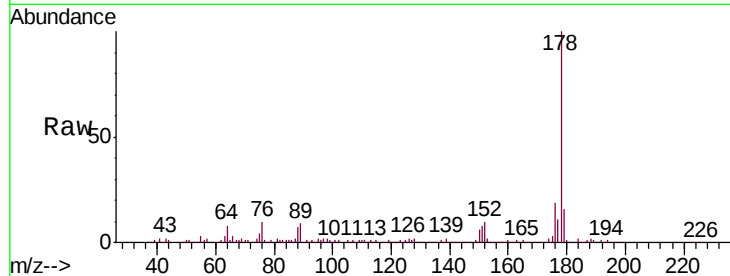




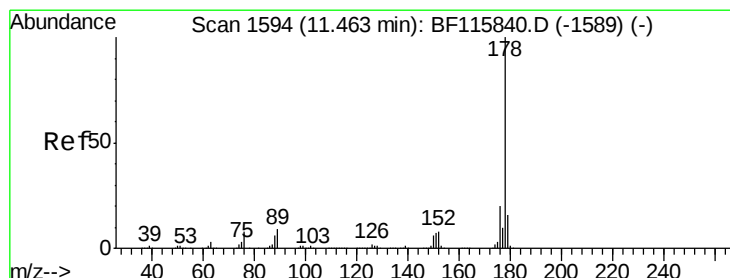
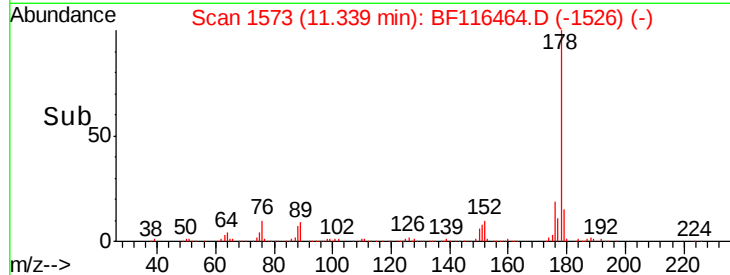
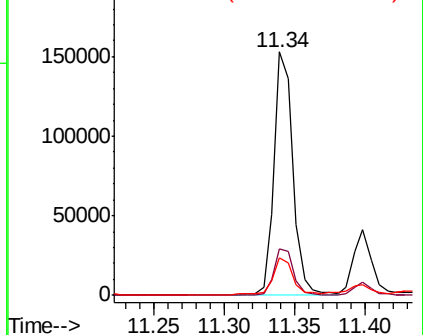
#71
Phenanthrene
Concen: 9.523 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.02 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 145096
Ion Ratio Lower Upper
178 100
176 19.2 16.6 24.8
179 15.7 12.5 18.7

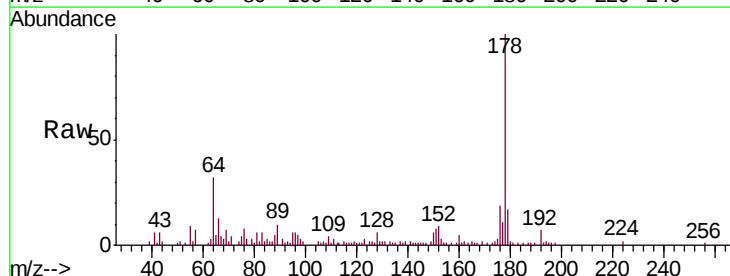


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

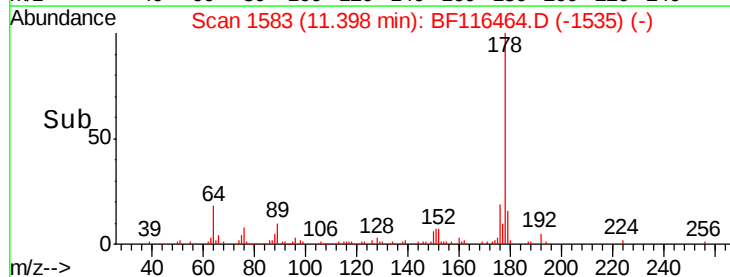
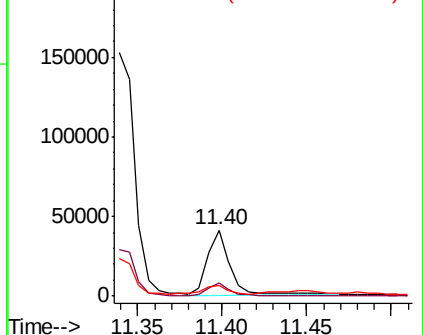


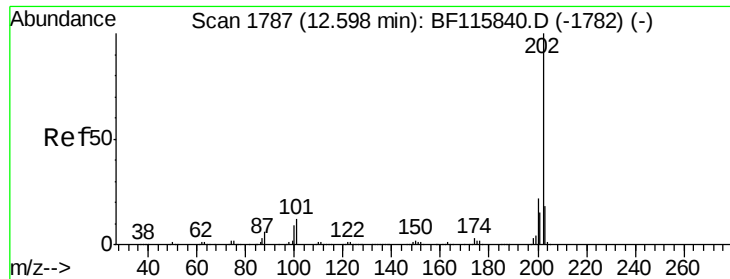
#72
Anthracene
Concen: 2.475 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.02 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Tgt Ion:178 Resp: 38167
Ion Ratio Lower Upper
178 100
176 19.1 15.7 23.5
179 16.5 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: 13.729 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampleId :

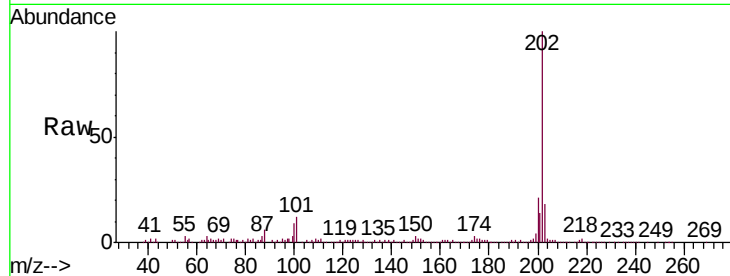
Tot Ion:202 Resp: 218983

Ion Ratio Lower Upper

202 100

101 12.1 0.0 31.2

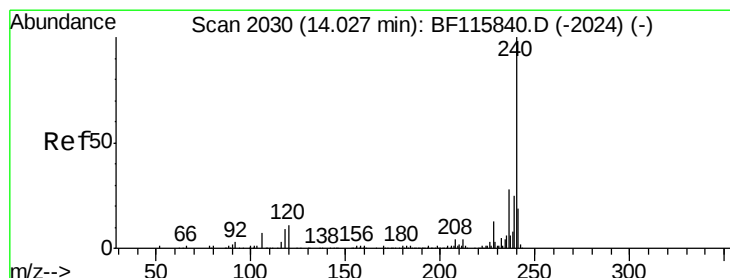
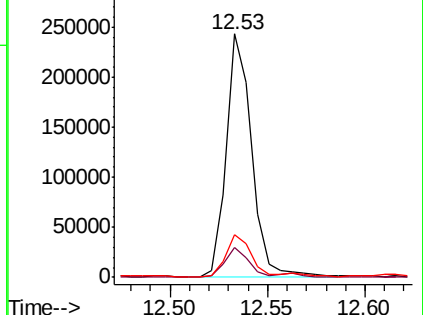
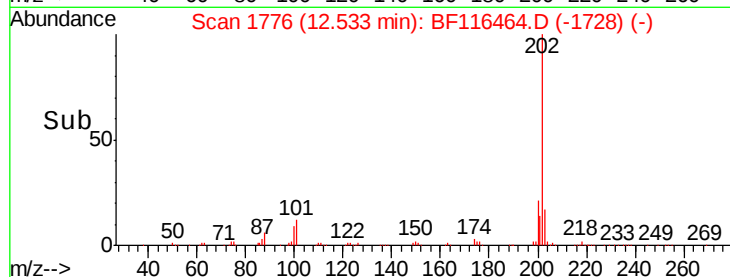
203 17.8 0.0 37.8



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: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

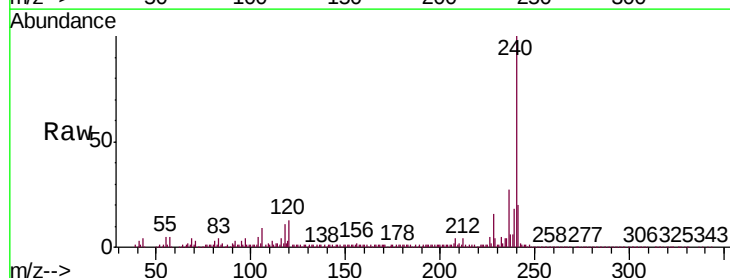
Tgt Ion:240 Resp: 230313

Ion Ratio Lower Upper

240 100

120 13.3 10.7 16.1

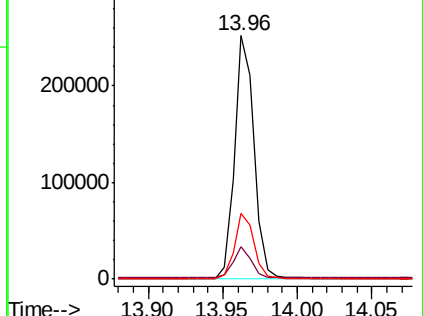
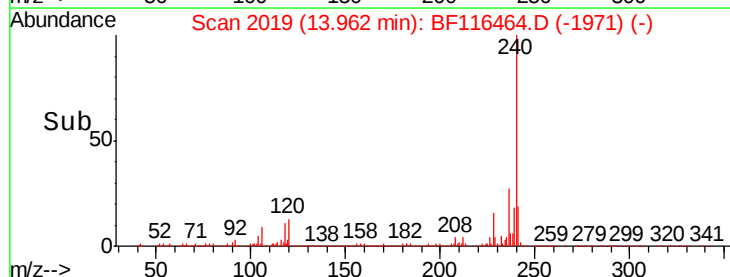
236 27.0 22.2 33.2

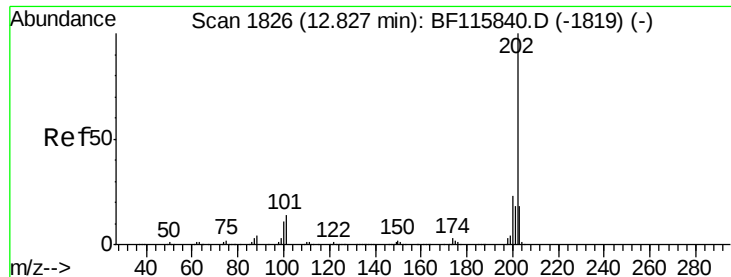


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 11.995 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

Instrument :

BNA_F

ClientSampled :

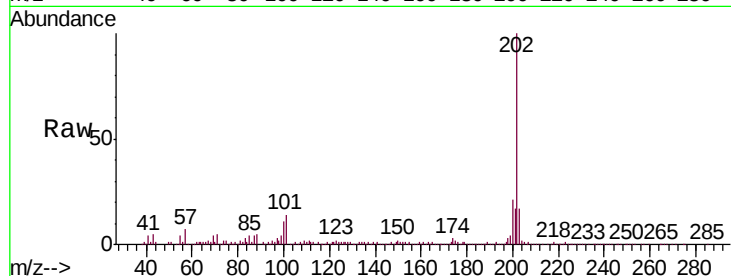
Tot Ion:202 Resp: 208248

Ion Ratio Lower Upper

202 100

200 21.2 18.0 27.0

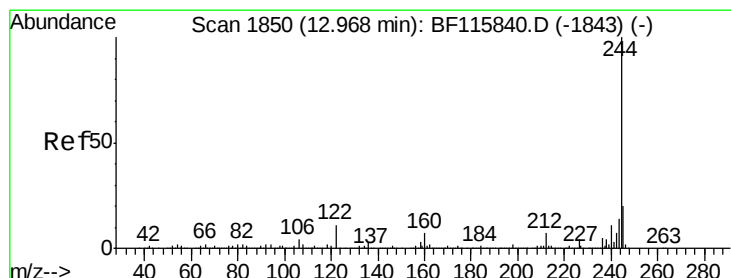
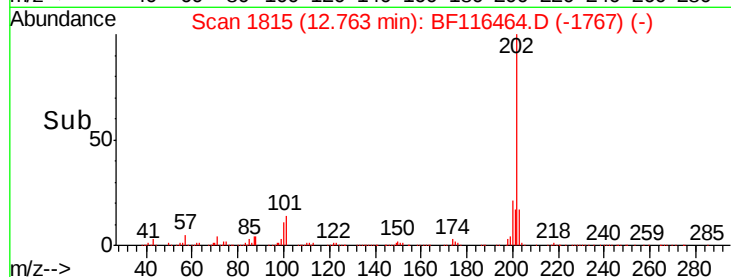
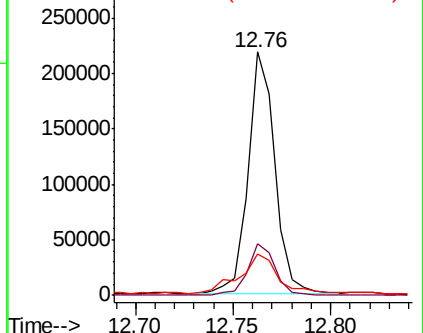
203 17.2 14.1 21.1



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: 65.958 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.02 min

Lab File: BF116464.D

Acq: 21 Aug 2019 14:35

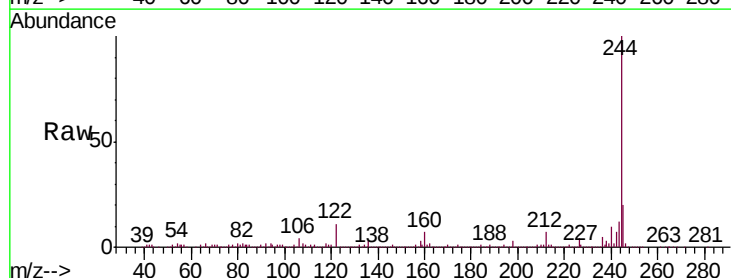
Tgt Ion:244 Resp: 720917

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

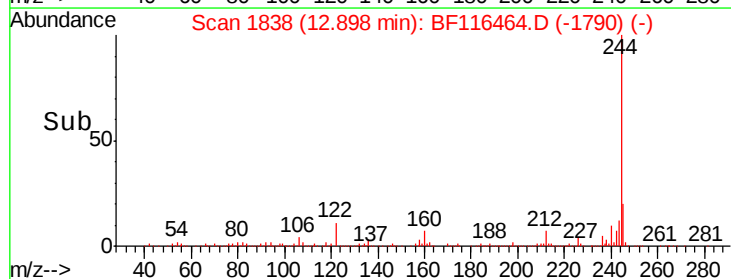
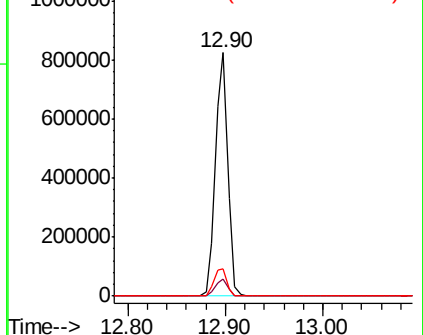
122 11.3 9.0 13.4

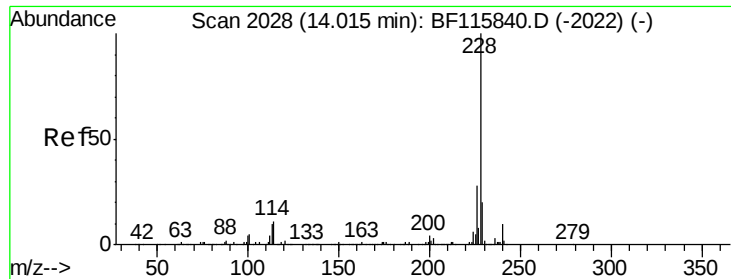


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

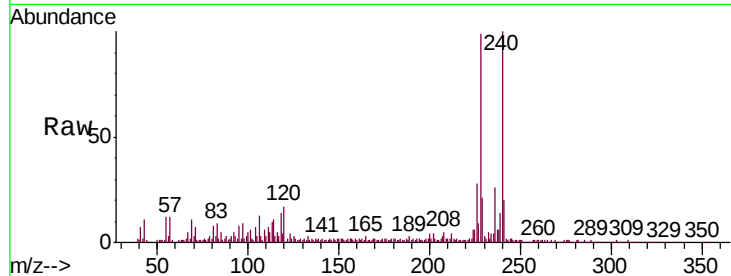




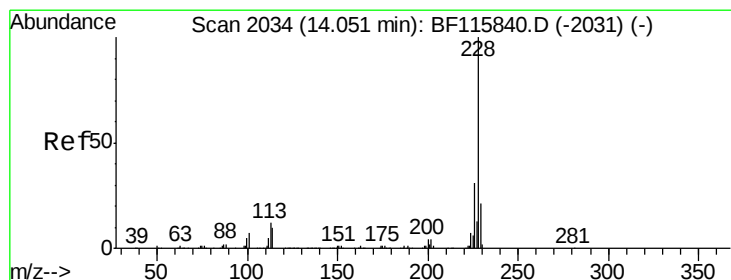
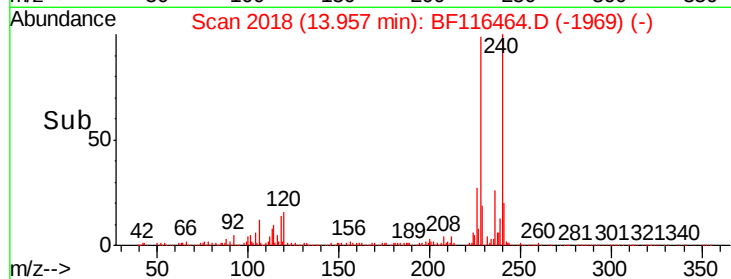
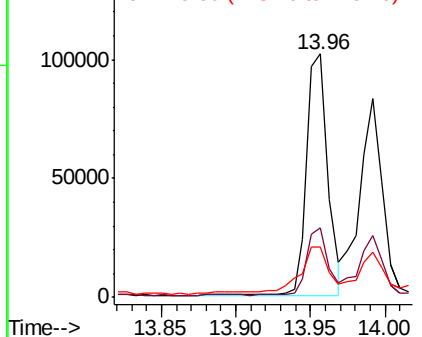
#81
Benzo(a)anthracene
Concen: 6.789 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.7	34.1
229	20.8	16.2	24.4

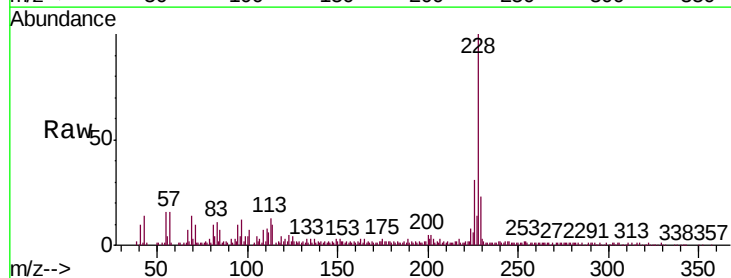


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

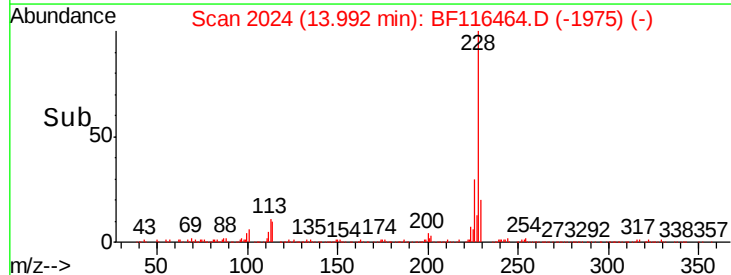
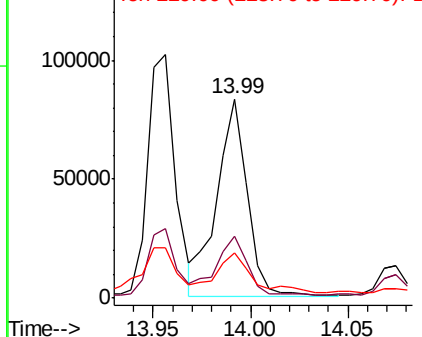


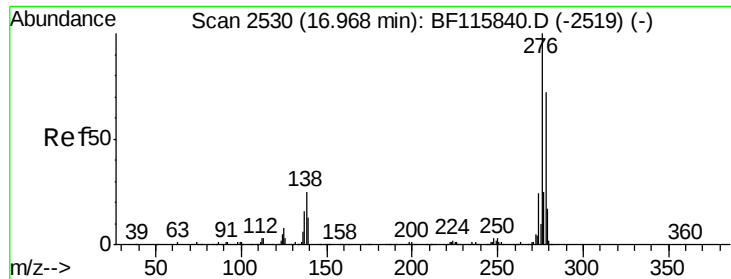
#83
Chrysene
Concen: 6.289 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.5	38.3
229	22.5	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

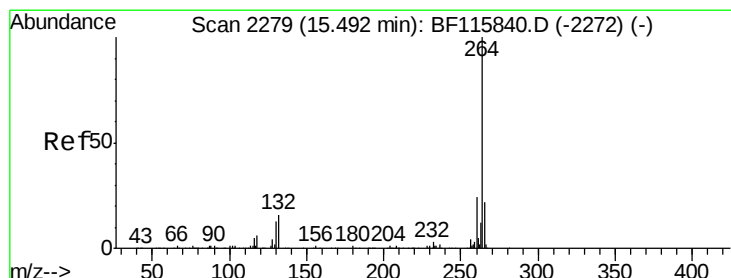
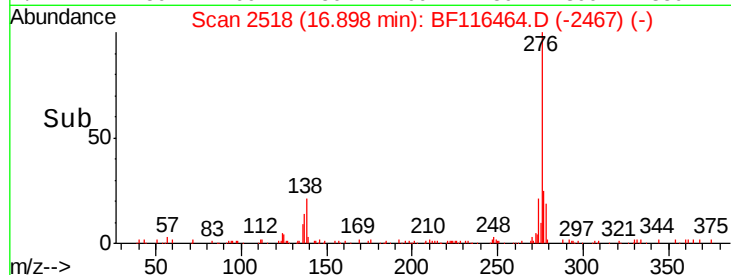
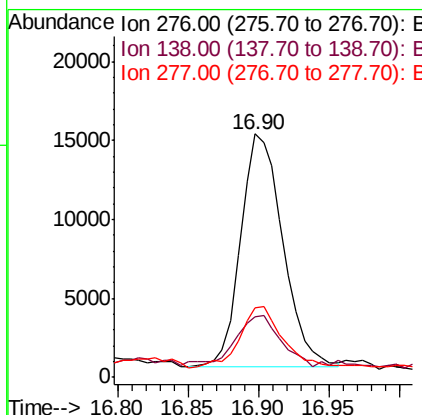
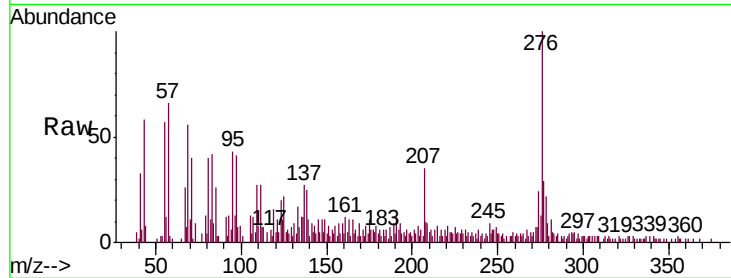




#86
Indeno(1,2,3-cd)pyrene
Concen: 2.580 ng
RT: 16.90 min Scan# 2518
Delta R.T. 0.00 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

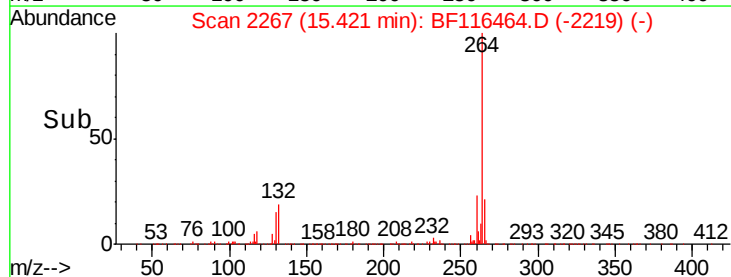
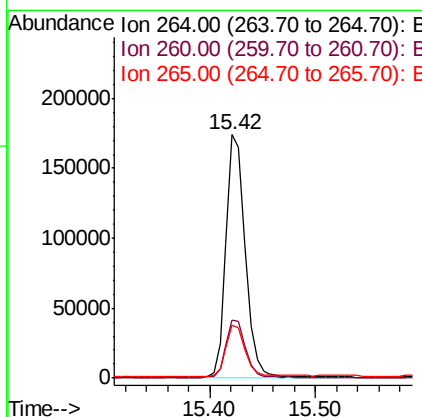
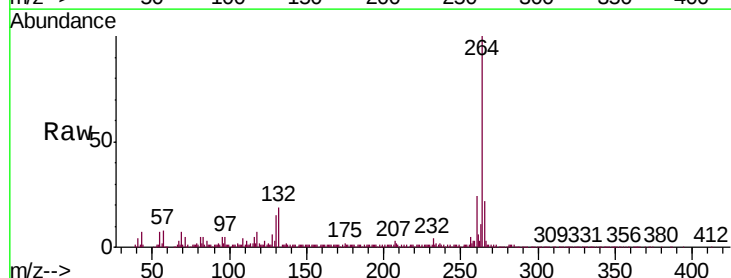
Instrument :
BNA_F
ClientSampleId :

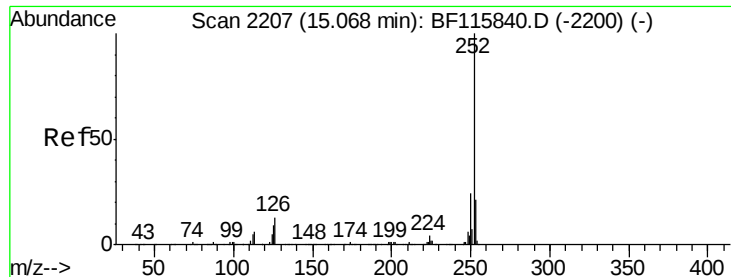
Tot Ion:276 Resp: 30969
Ion Ratio Lower Upper
276 100
138 24.1 20.4 30.6
277 28.5 20.0 30.0



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Tgt Ion:264 Resp: 218449
Ion Ratio Lower Upper
264 100
260 23.8 19.7 29.5
265 21.5 17.4 26.0

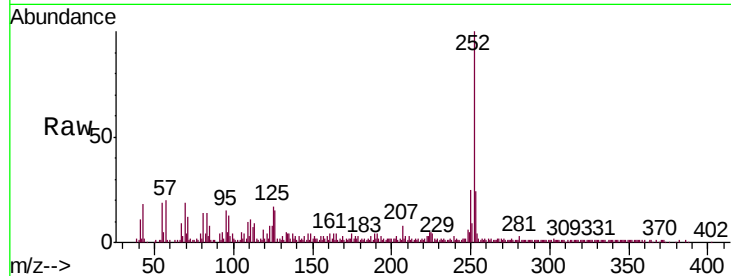




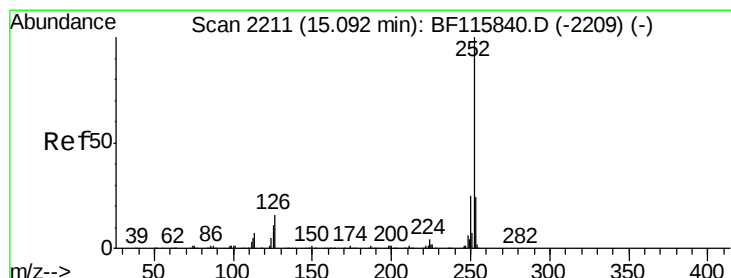
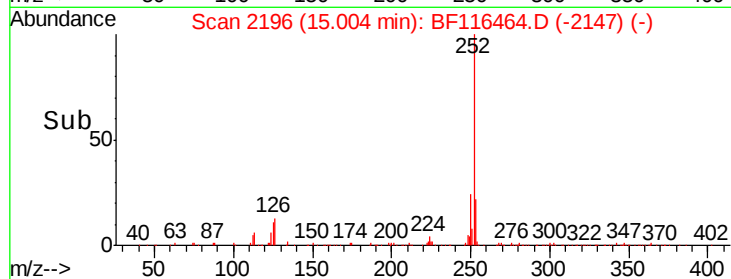
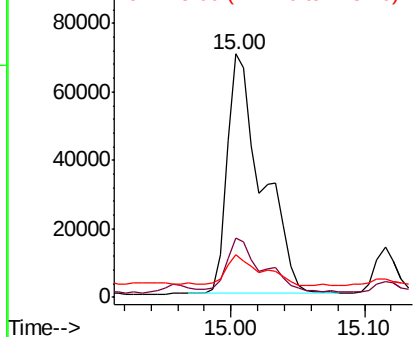
#88
Benzo(b)fluoranthene
Concen: 10.058 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.8
125	17.5	8.4	12.6

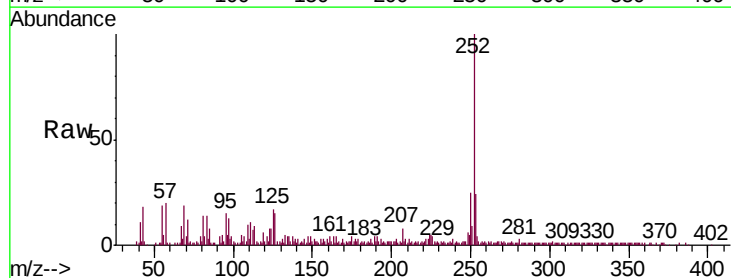


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

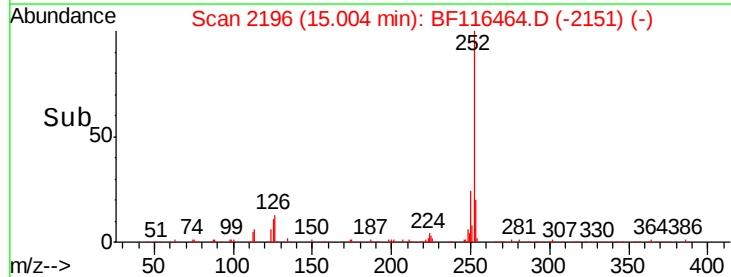
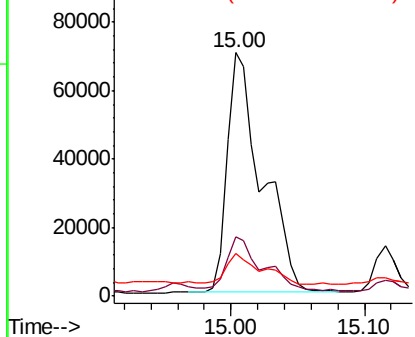


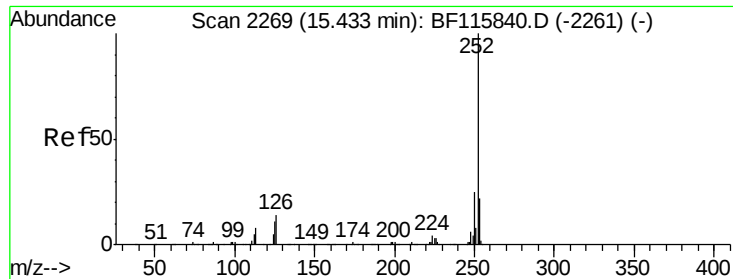
#89
Benzo(k)fluoranthene
Concen: 10.327 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.04 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.8
125	17.5	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

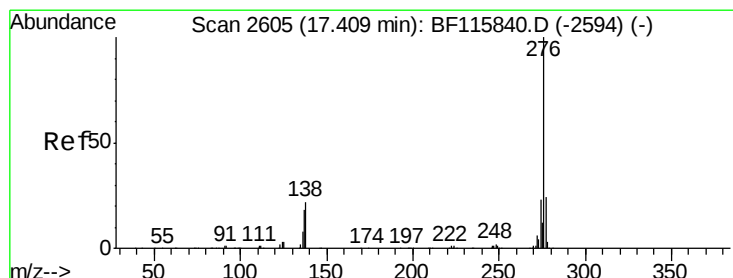
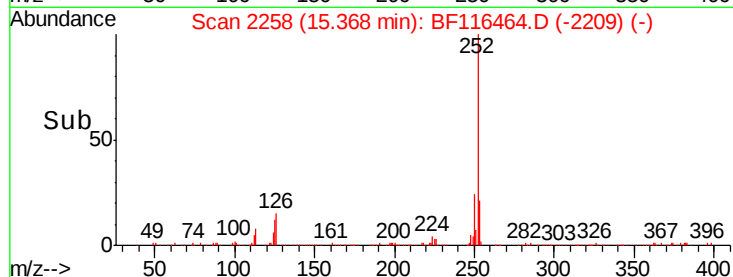
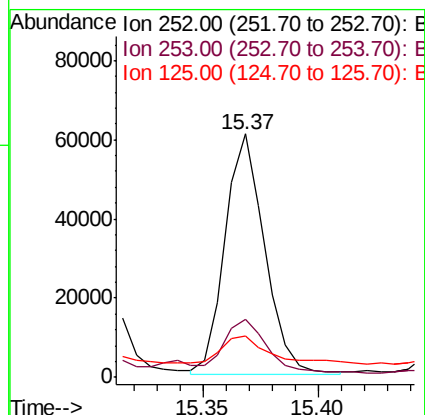
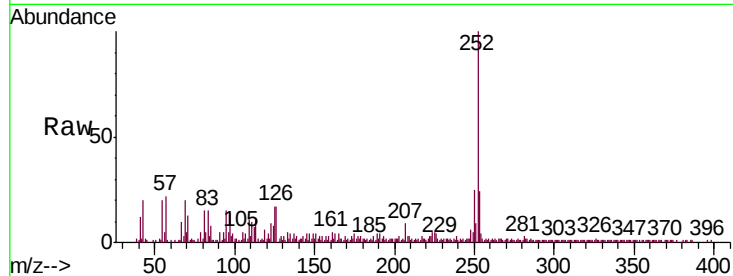




#90
Benzo(a)pyrene
Concen: 6.393 ng
RT: 15.37 min Scan# 2258
Delta R.T. -0.01 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 72185
Ion Ratio Lower Upper
252 100
253 23.9 18.0 27.0
125 17.2 8.9 13.3#



#92
Benzo(g,h,i)perylene
Concen: 3.085 ng
RT: 17.35 min Scan# 2595
Delta R.T. 0.01 min
Lab File: BF116464.D
Acq: 21 Aug 2019 14:35

Tgt Ion:276 Resp: 29616
Ion Ratio Lower Upper
276 100
277 32.4 18.4 27.6#
138 24.9 17.0 25.6

