

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\
 Data File : BF116849.D
 Acq On : 5 Sep 2019 20:15
 Operator : HP/JU
 Sample : K4692-12 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 06 03:57:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	65164	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	272573	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	140566	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	217702	20.00	ng	0.00
76) Chrysene-d12	14.00	240	154634	20.00	ng	0.00
87) Perylene-d12	15.46	264	115691	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	256435	63.75	ng	0.00
7) Phenol-d6	6.48	99	359840	68.13	ng	0.00
23) Nitrobenzene-d5	7.40	82	216812	45.41	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	68316	72.70	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	420894	50.51	ng	-0.01
79) Terphenyl-d14	12.95	244	372589	44.57	ng	0.00

Target Compounds

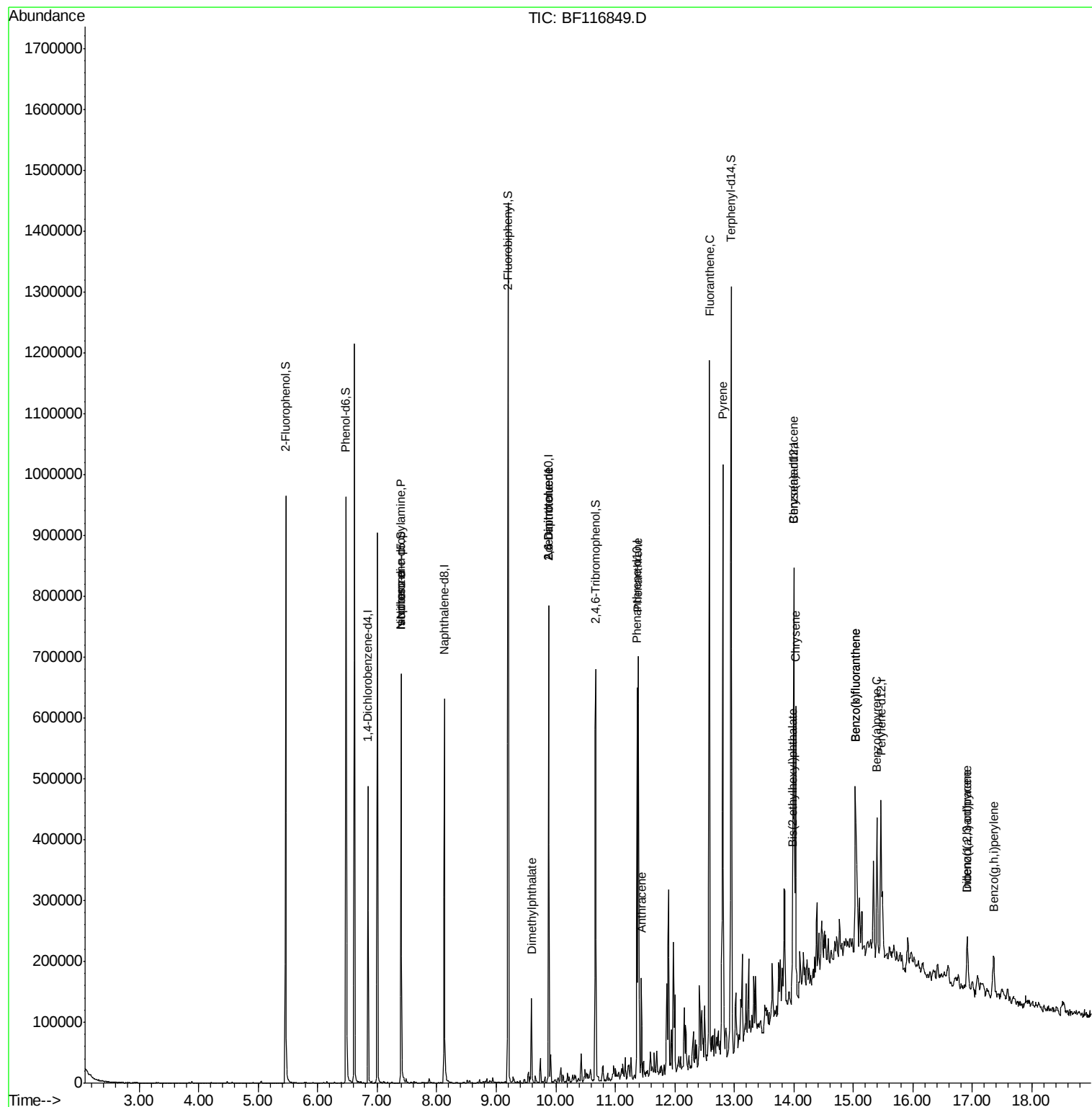
						Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	28402	8.167	ng	# 72
25) Isophorone	7.40	82	216833	22.411	ng	# 66
50) Dimethylphthalate	9.59	163	55541	5.723	ng	97
51) 2,6-Dinitrotoluene	9.88	165	18539	10.013	ng	# 20
57) 2,4-Dinitrotoluene	9.88	165	18539	8.189	ng	# 21
71) Phenanthrene	11.39	178	251009	20.713	ng	99
72) Anthracene	11.44	178	55933	4.585	ng	99
75) Fluoranthene	12.58	202	402995	33.838	ng	99
78) Pyrene	12.81	202	400764	29.155	ng	99
81) Benzo(a)anthracene	13.99	228	187846	19.194	ng	98
83) Chrysene	14.03	228	158524	15.722	ng	98
84) Bis(2-ethylhexyl)phthalate	13.97	149	18044	2.187	ng	95
86) Indeno(1,2,3-cd)pyrene	16.92	276	50421	6.226	ng	99
88) Benzo(b)fluoranthene	15.03	252	198778	28.419	ng	# 98
89) Benzo(k)fluoranthene	15.03	252	198778	31.169	ng	98
90) Benzo(a)pyrene	15.40	252	98631	16.208	ng	98
91) Dibenzo(a,h)anthracene	16.92	278	13807	2.592	ng	# 80
92) Benzo(g,h,i)perylene	17.36	276	51369	9.456	ng	95

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

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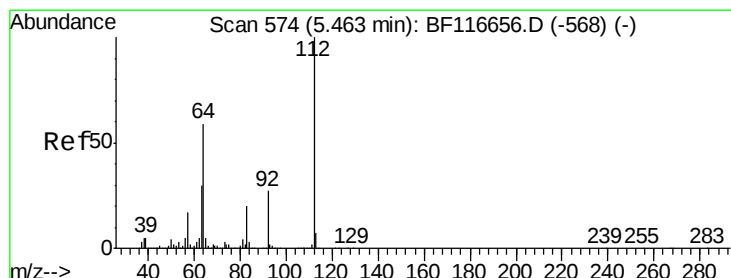
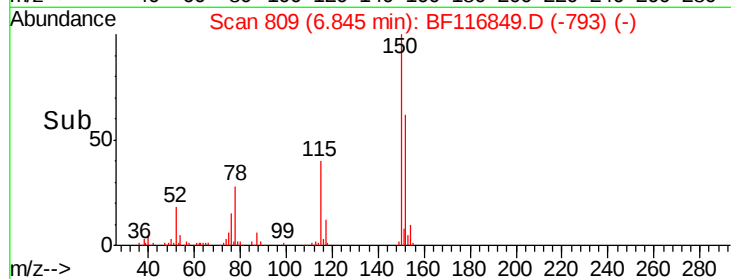
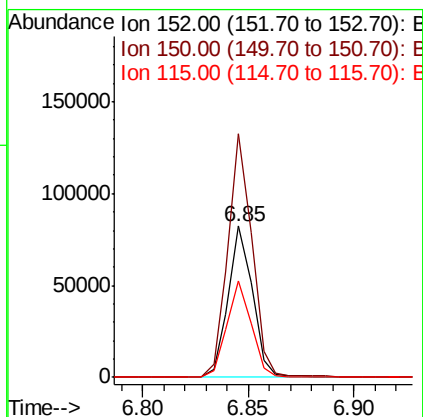
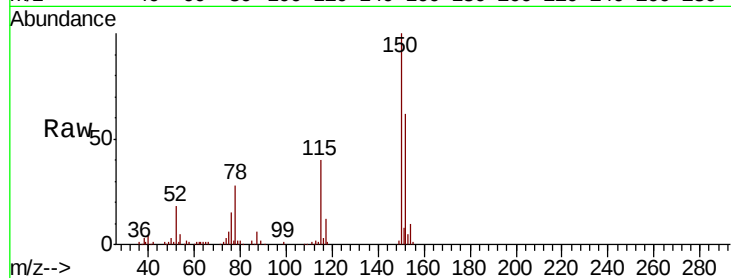


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF116849.D
 Acq: 5 Sep 2019 20:15

Instrument :
 BNA_F
 ClientSampleId :

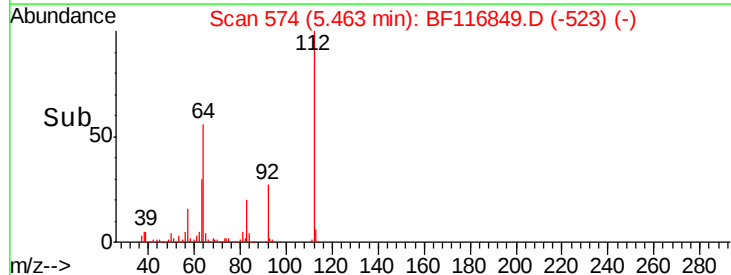
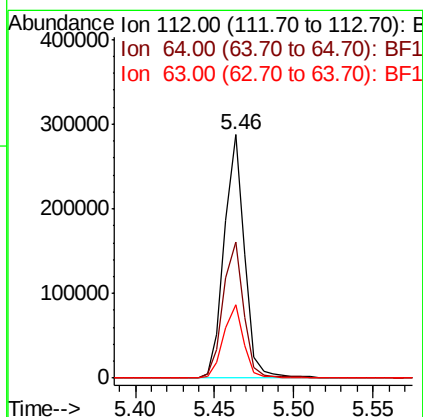
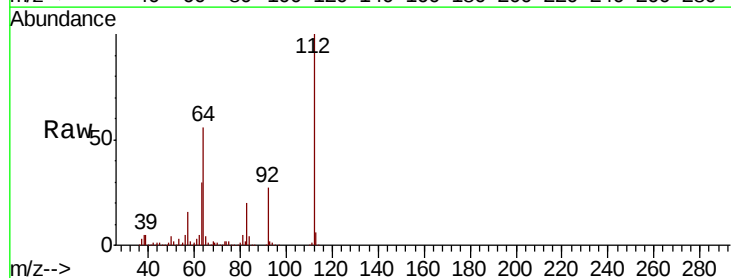
Tot Ion	Ratio	Lower	Upper
152	100		
150	161.2	124.4	186.6
115	64.3	49.9	74.9

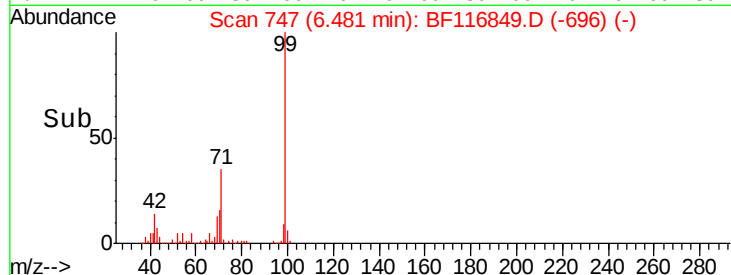
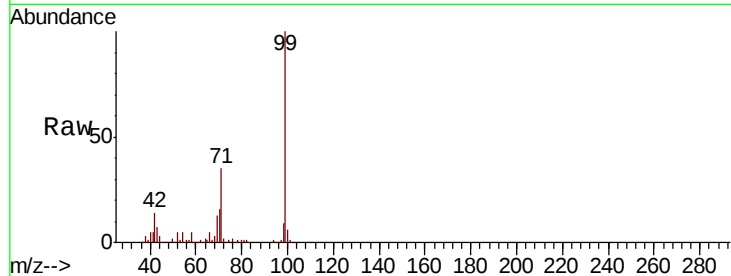


#5

2-Fluorophenol
 Concen: 63.753 ng
 RT: 5.46 min Scan# 574
 Delta R.T. 0.00 min
 Lab File: BF116849.D
 Acq: 5 Sep 2019 20:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	47.1	70.7
63	29.9	24.9	37.3





#7

Phenol-d6

Concen: 68.129 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampled :

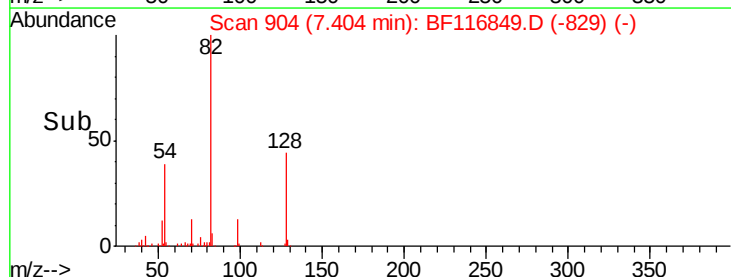
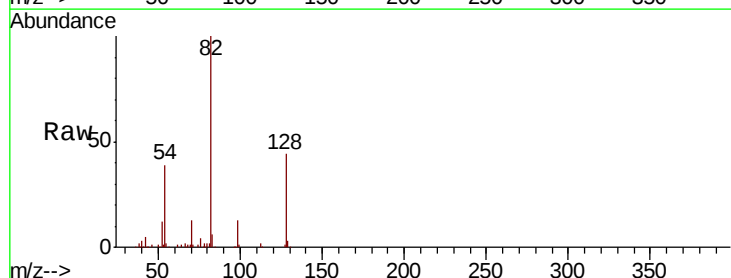
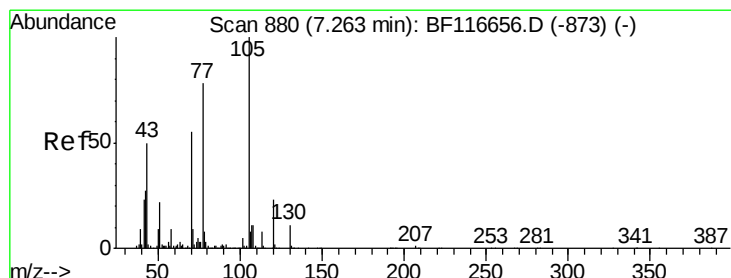
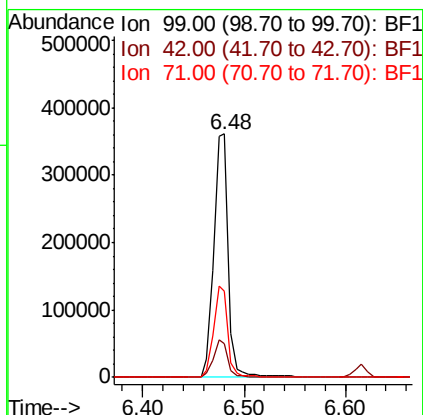
Tot Ion: 99 Resp: 359840

Ion Ratio Lower Upper

99 100

42 13.8 13.7 20.5

71 35.5 30.8 46.2



#19

n-Nitroso-di-n-propylamine

Concen: 8.167 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Tgt Ion: 70 Resp: 28402

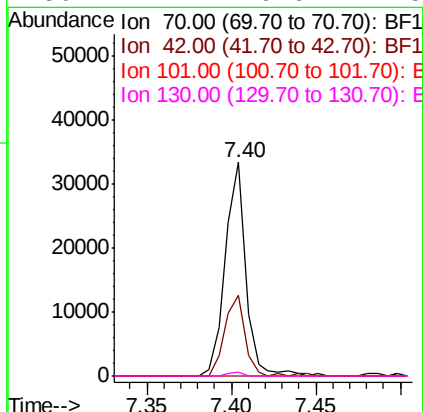
Ion Ratio Lower Upper

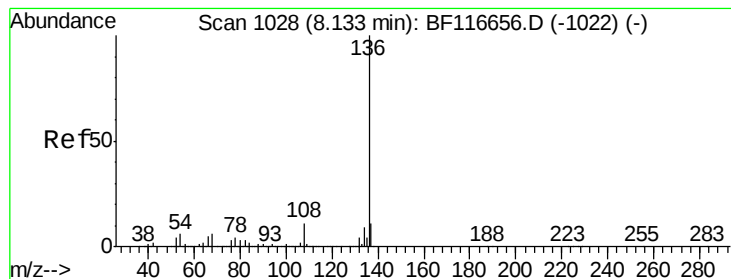
70 100

42 37.8 43.5 65.3#

101 0.0 7.8 11.6#

130 1.7 16.6 24.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 272573

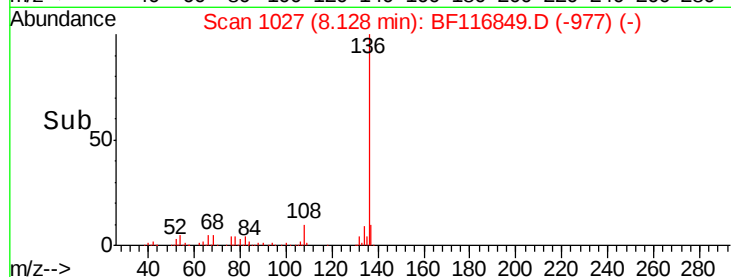
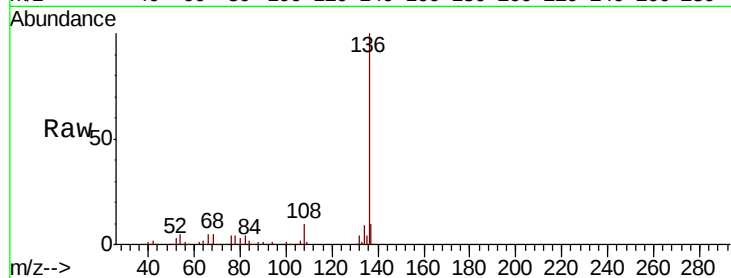
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 5.3 4.8 7.2

68 4.8 4.0 6.0

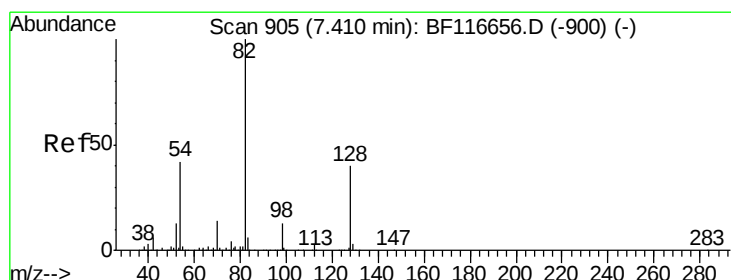
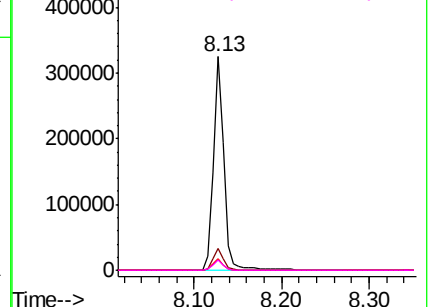


Abundance Ion 136.00 (135.70 to 136.70): E

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: 45.409 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

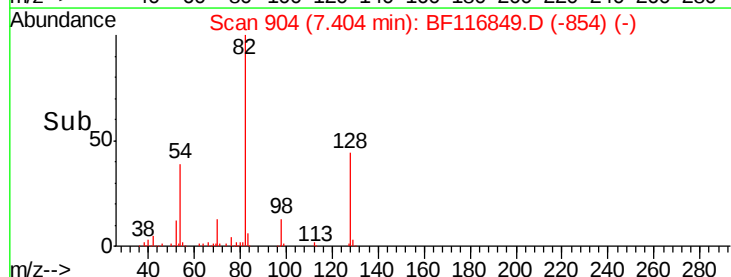
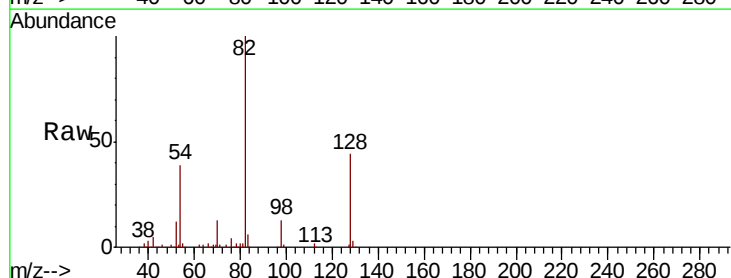
Tgt Ion: 82 Resp: 216812

Ion Ratio Lower Upper

82 100

128 43.9 32.8 49.2

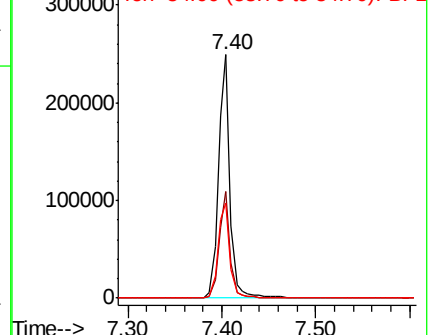
54 39.2 36.9 55.3



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: 22.411 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

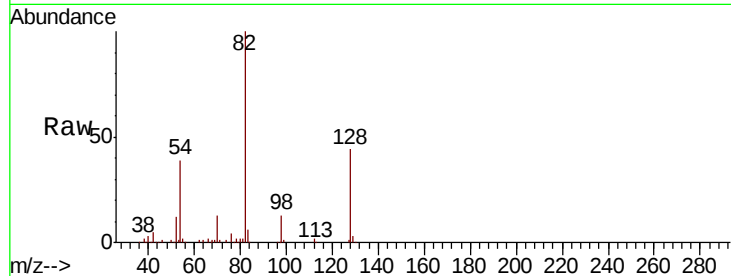
Tot Ion: 82 Resp: 216833

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

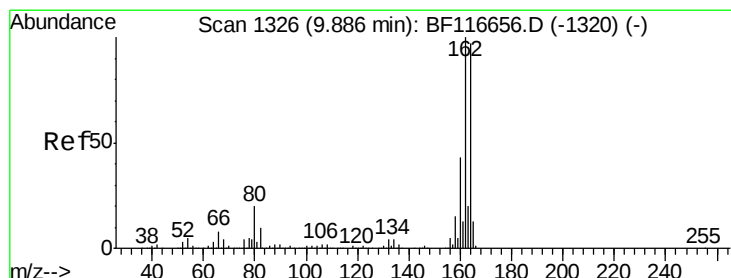
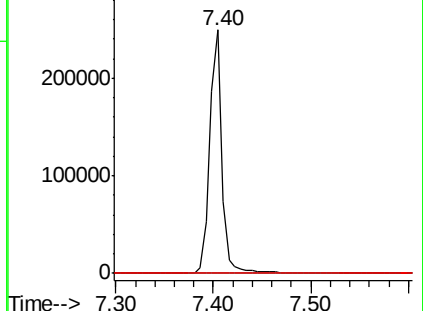
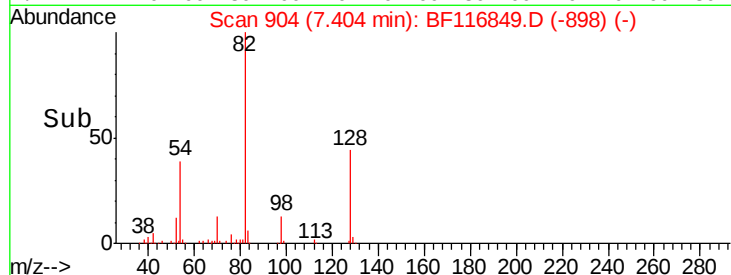
138 0.0 13.5 20.3#



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: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

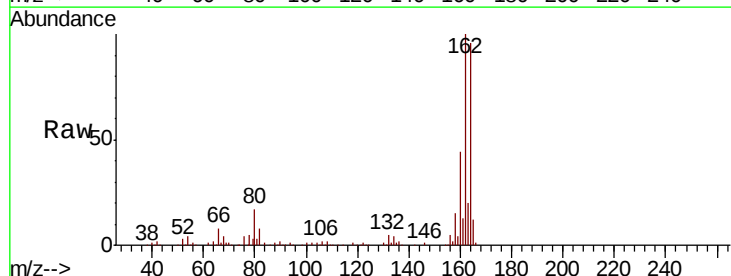
Tgt Ion:164 Resp: 140566

Ion Ratio Lower Upper

164 100

162 104.5 81.4 122.0

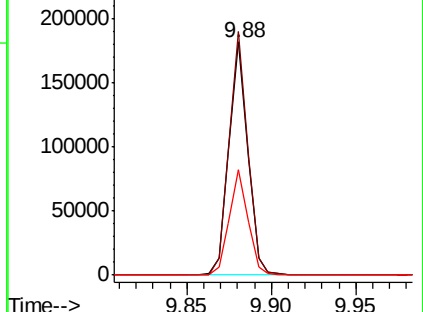
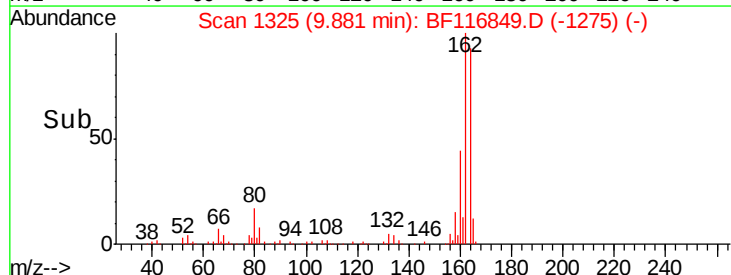
160 45.5 35.4 53.2

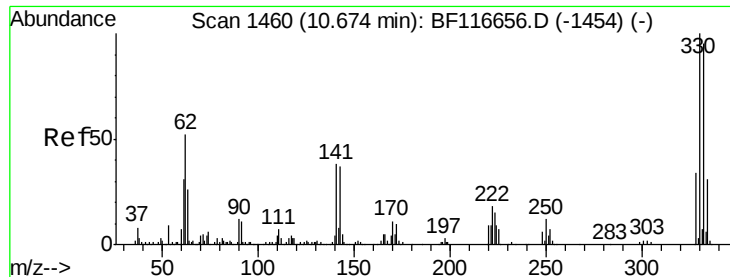


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

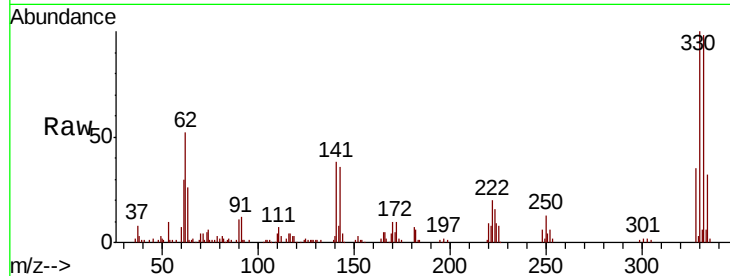




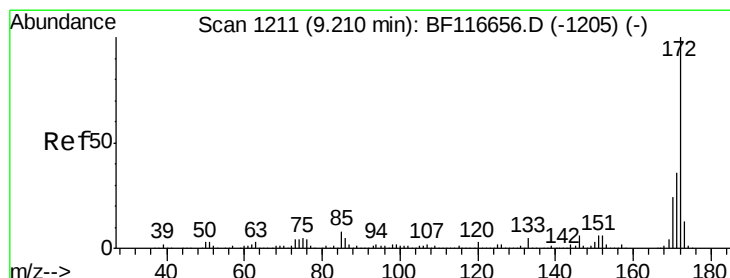
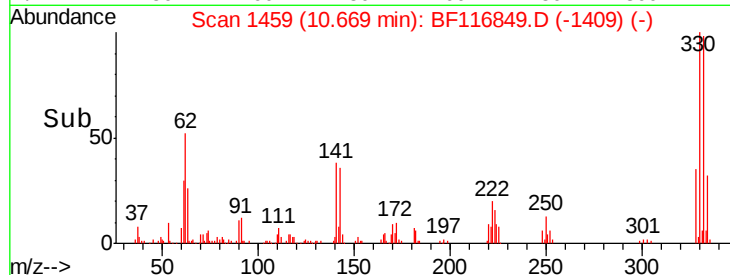
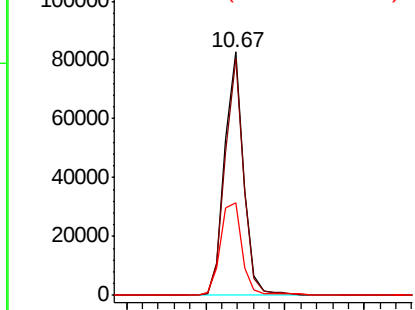
#42
 2,4,6-Tribromophenol
 Concen: 72.699 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116849.D
 Acq: 5 Sep 2019 20:15

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 68316
 Ion Ratio Lower Upper
 330 100
 332 96.3 76.9 115.3
 141 44.3 31.4 47.2

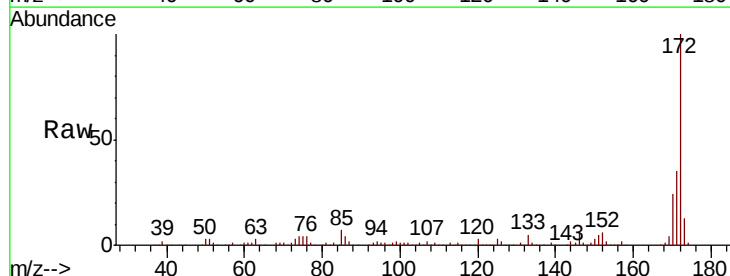


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

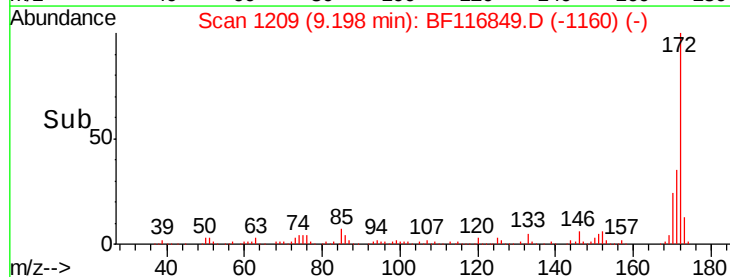
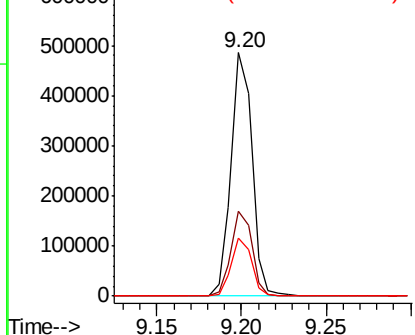


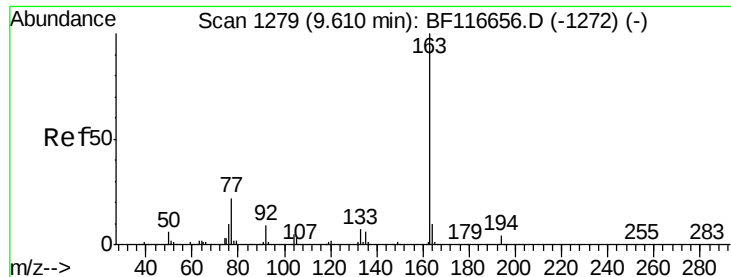
#45
 2-Fluorobiphenyl
 Concen: 50.510 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF116849.D
 Acq: 5 Sep 2019 20:15

Tgt Ion:172 Resp: 420894
 Ion Ratio Lower Upper
 172 100
 171 35.1 27.8 41.6
 170 23.7 18.9 28.3



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: 5.723 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

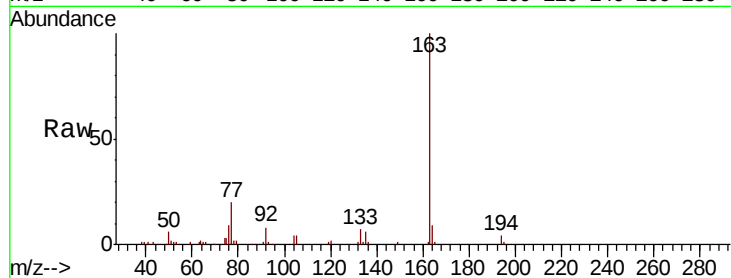
Tot Ion:163 Resp: 55541

Ion Ratio Lower Upper

163 100

194 3.8 2.8 4.2

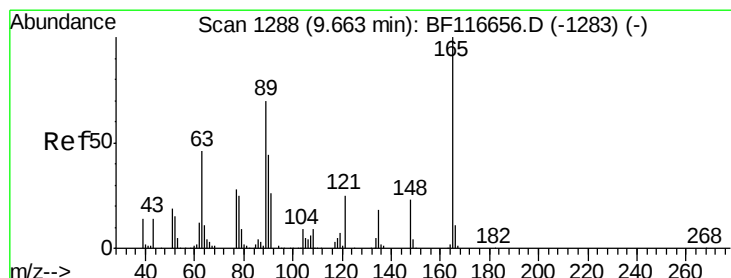
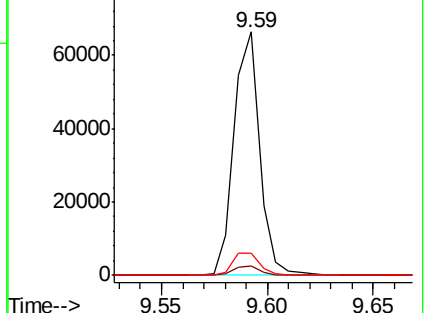
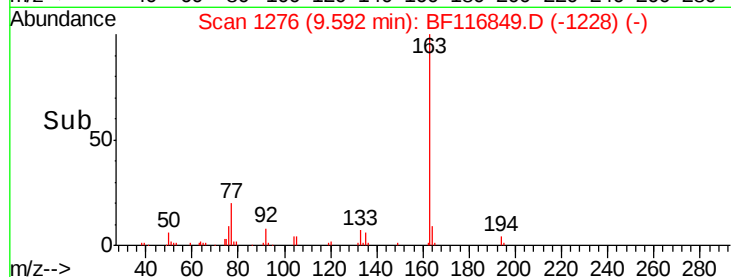
164 9.1 8.6 12.8



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



#51

2,6-Dinitrotoluene

Concen: 10.013 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.22 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

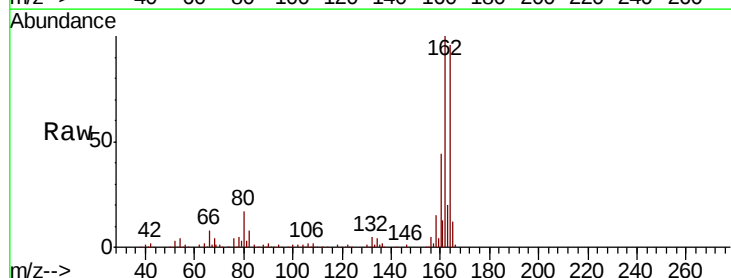
Tgt Ion:165 Resp: 18539

Ion Ratio Lower Upper

165 100

63 0.0 47.3 70.9#

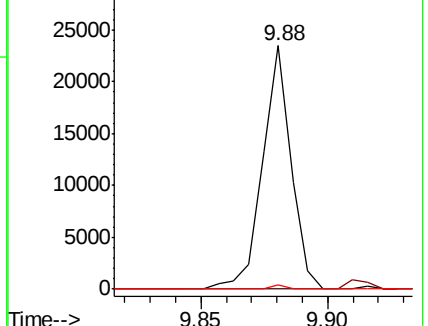
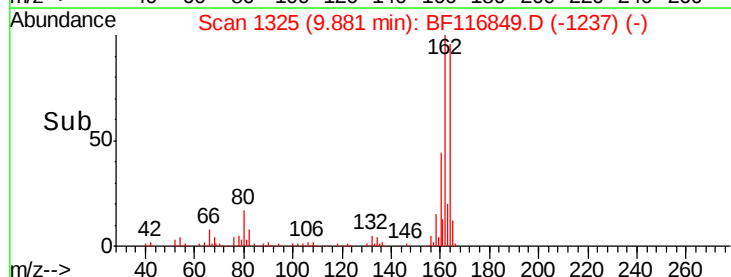
89 2.0 52.5 78.7#



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

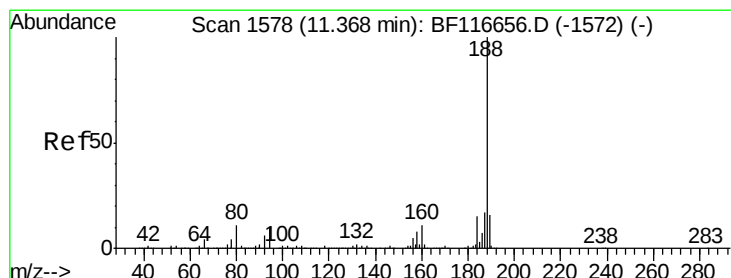
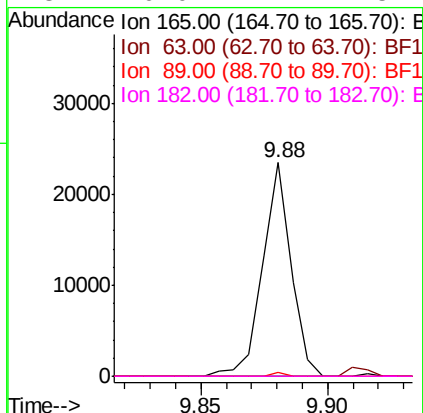
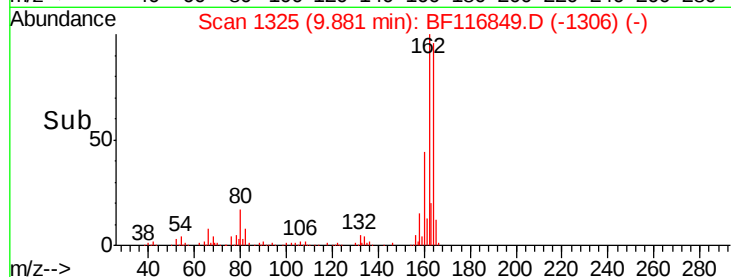
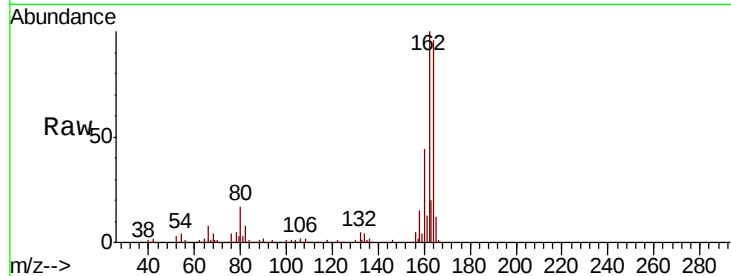




#57
 2,4-Dinitrotoluene
 Concen: 8.189 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.19 min
 Lab File: BF116849.D
 Acq: 5 Sep 2019 20:15

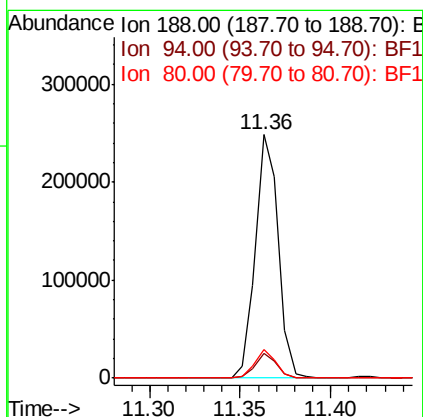
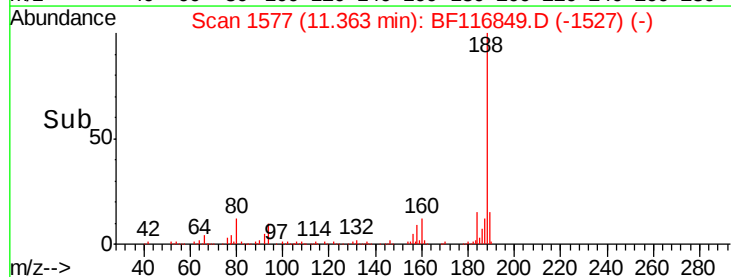
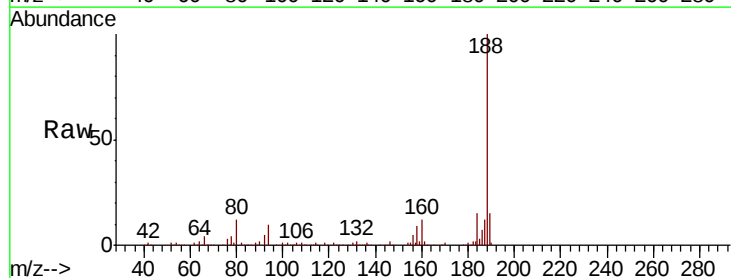
Instrument :
 BNA_F
 ClientSampleId :

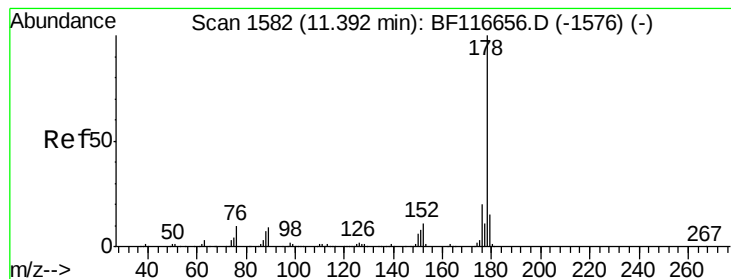
Tot Ion:	165	Resp:	18539
Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	2.0	62.6	94.0#
182	0.0	2.1	3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF116849.D
 Acq: 5 Sep 2019 20:15

Tgt Ion:	188	Resp:	217702
Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.3	10.9
80	11.7	8.4	12.6





#71

Phenanthrene

Concen: 20.713 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

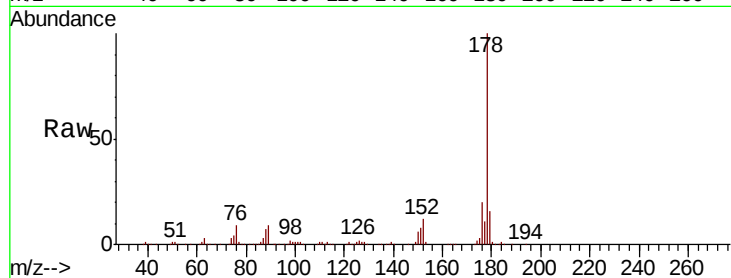
Tot Ion:178 Resp: 251009

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

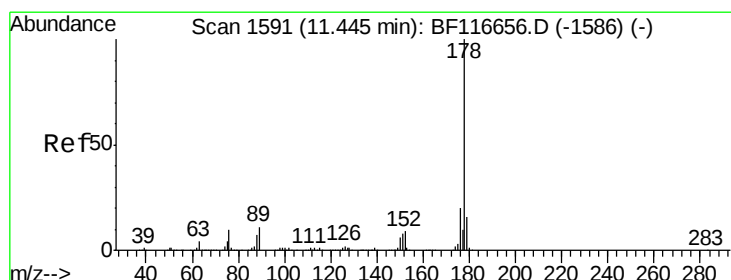
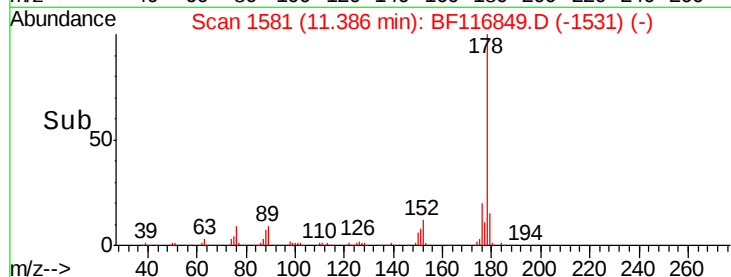
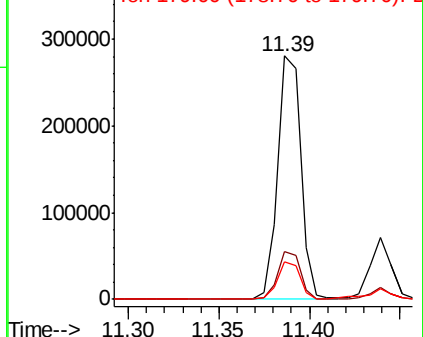
179 15.5 12.2 18.2



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



#72

Anthracene

Concen: 4.585 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

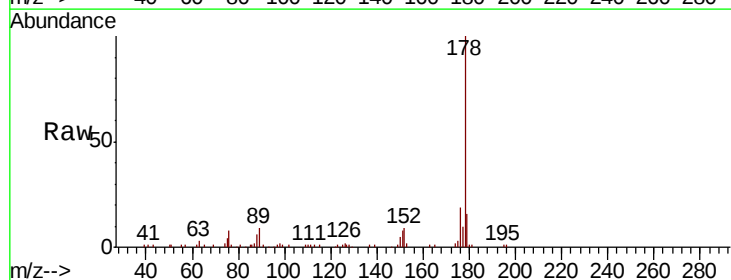
Tgt Ion:178 Resp: 55933

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

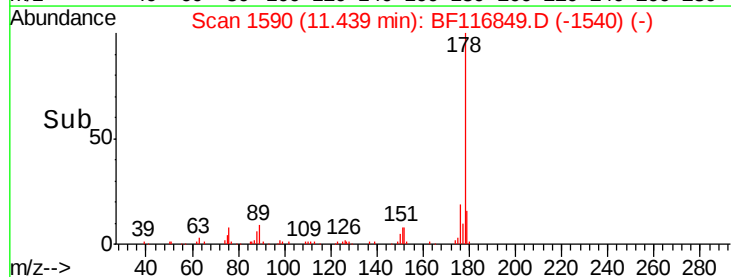
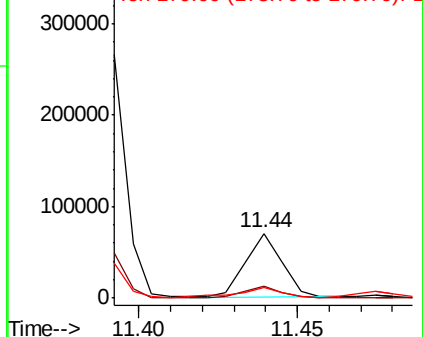
179 16.3 12.5 18.7

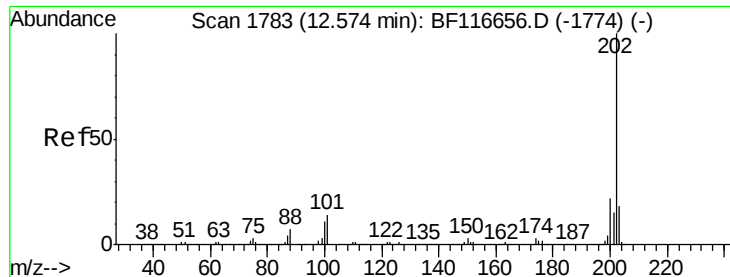


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 33.838 ng

RT: 12.58 min Scan# 1784

Delta R.T. 0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

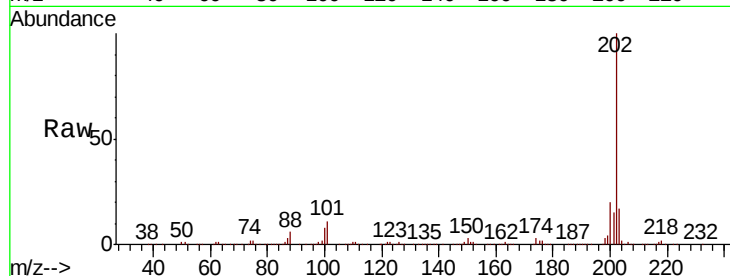
Tot Ion:202 Resp: 402995

Ion Ratio Lower Upper

202 100

101 11.0 0.0 31.3

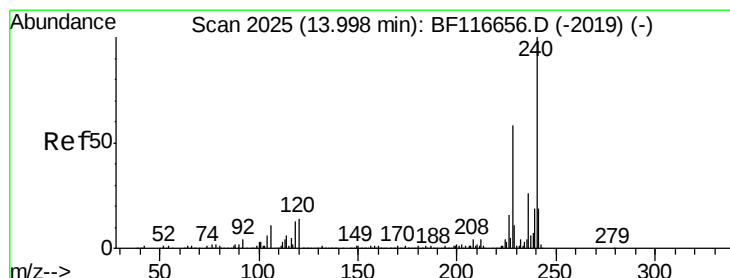
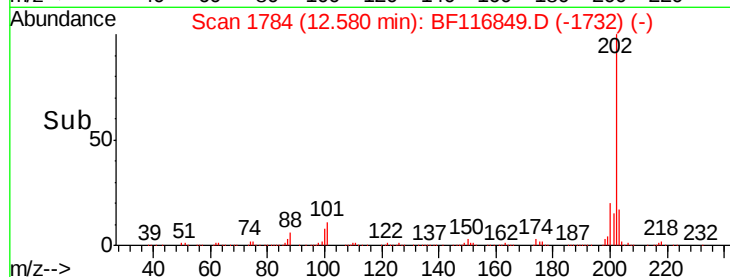
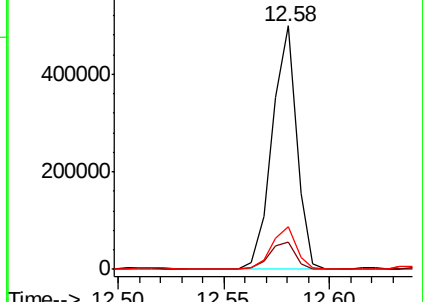
203 17.3 0.0 37.6



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: BF116849.D

Acq: 5 Sep 2019 20:15

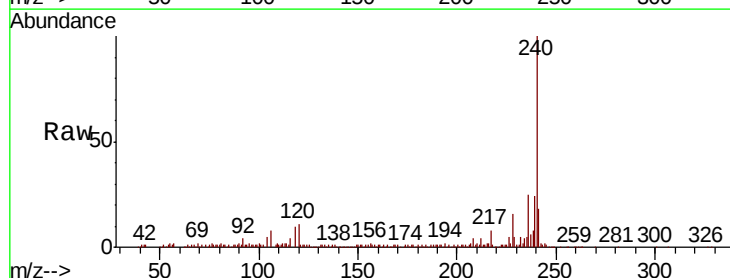
Tgt Ion:240 Resp: 154634

Ion Ratio Lower Upper

240 100

120 11.1 9.1 13.7

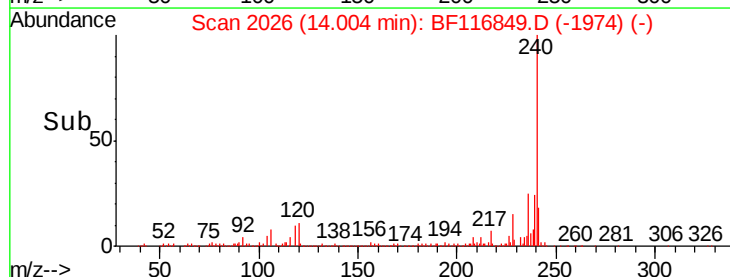
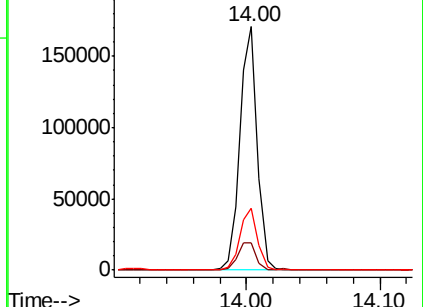
236 25.3 21.1 31.7

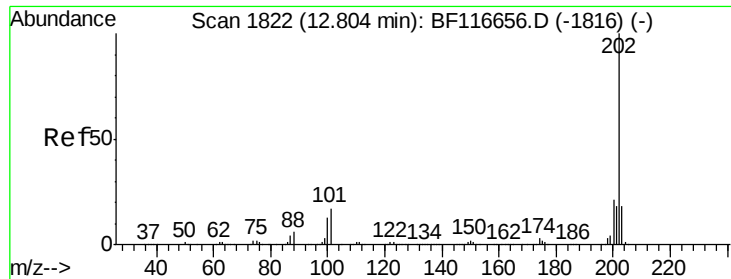


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

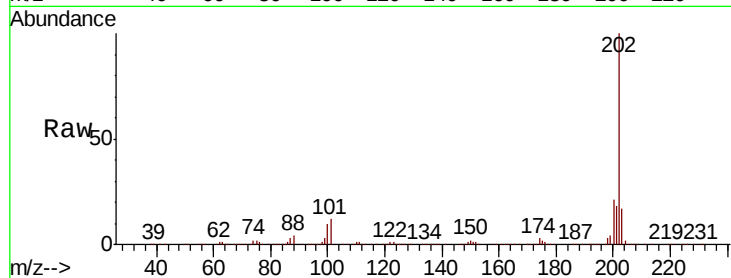




#78
Pvrene
Concen: 29.155 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.01 min
Lab File: BF116849.D
Acq: 5 Sep 2019 20:15

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.5	24.7
203	17.4	13.7	20.5

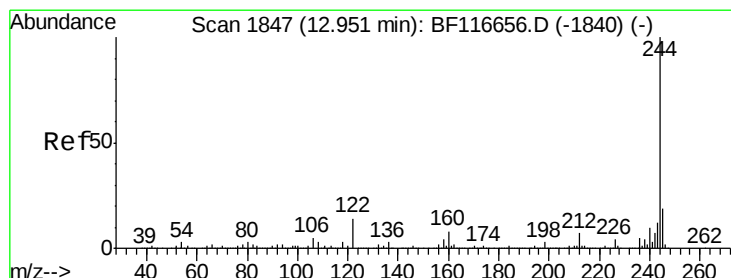
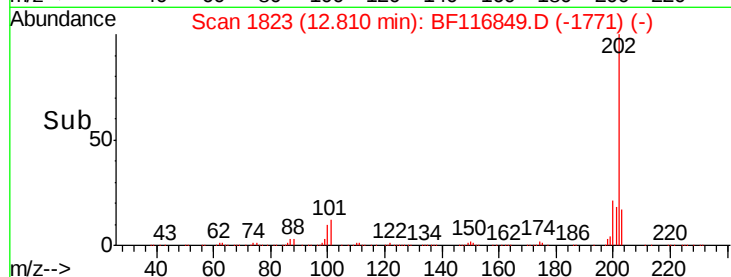
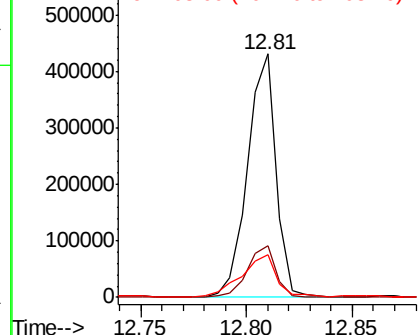


Abundance

Ion 202.00 (201.70 to 202.70): E

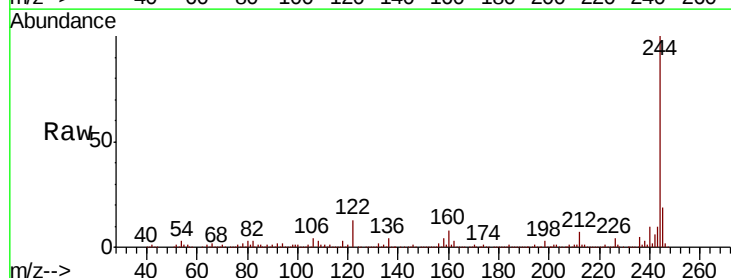
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 44.574 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116849.D
Acq: 5 Sep 2019 20:15

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.1	9.1
122	13.0	10.2	15.4

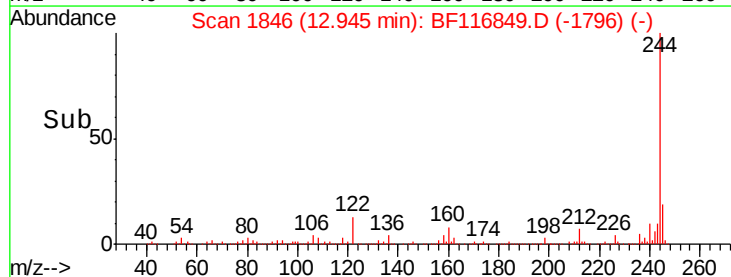
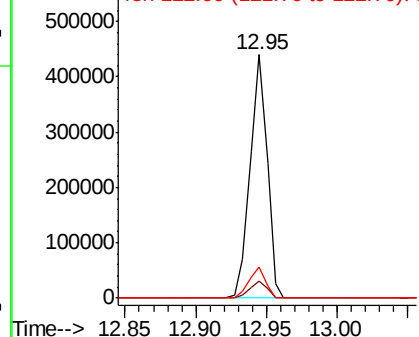


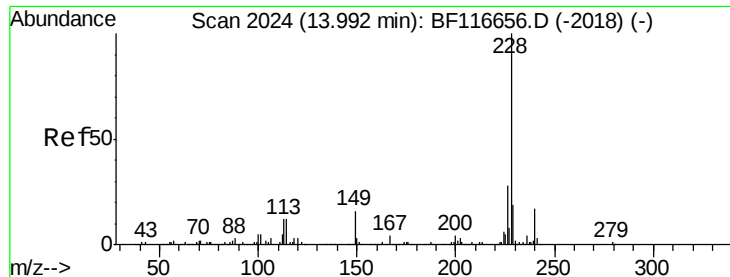
Abundance

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: 19.194 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.00 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

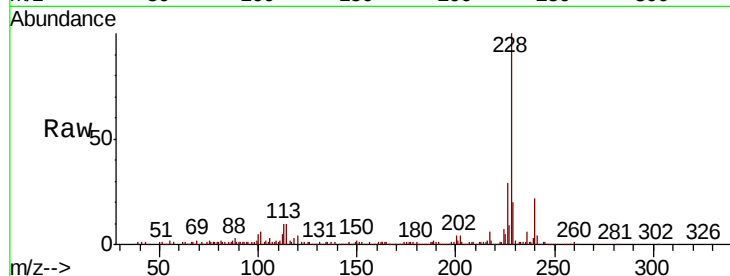
Tot Ion:228 Resp: 187846

Ion Ratio Lower Upper

228 100

226 28.9 22.0 33.0

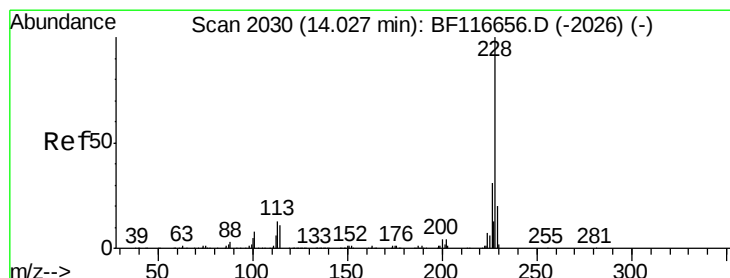
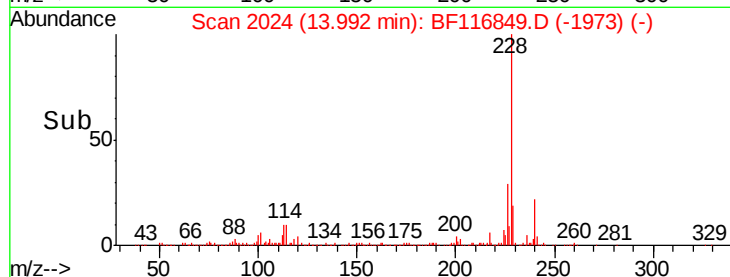
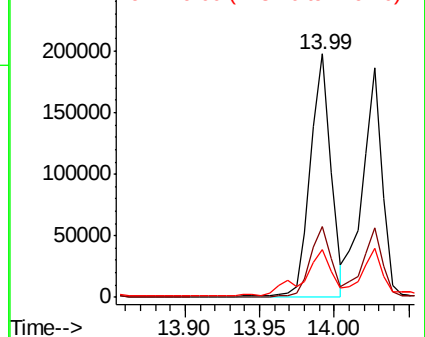
229 19.5 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 15.722 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

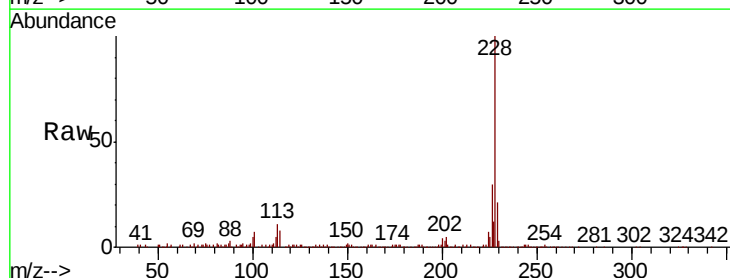
Tgt Ion:228 Resp: 158524

Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

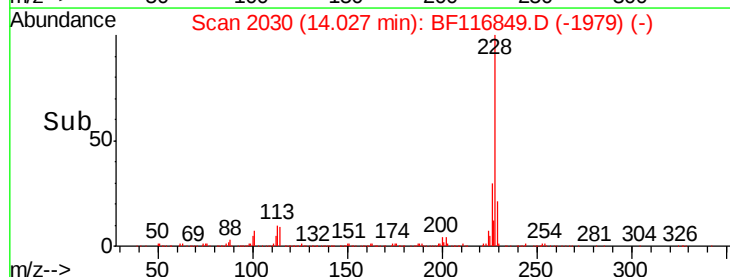
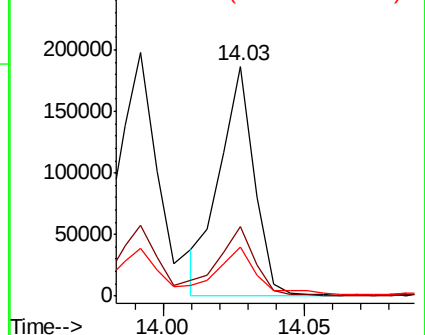
229 21.4 15.4 23.0

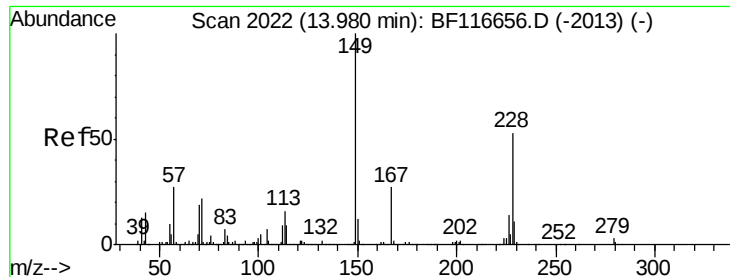


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.187 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

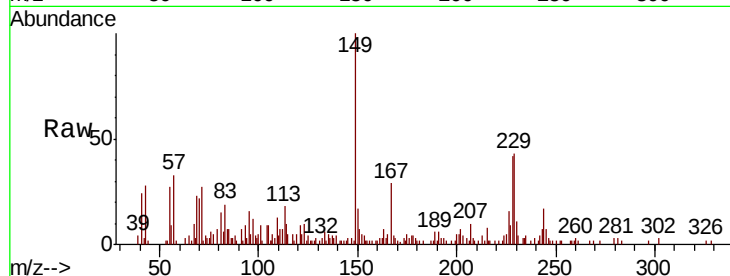
Tot Ion:149 Resp: 18044

Ion Ratio Lower Upper

149 100

167 29.3 21.0 31.4

279 3.4 2.8 4.2

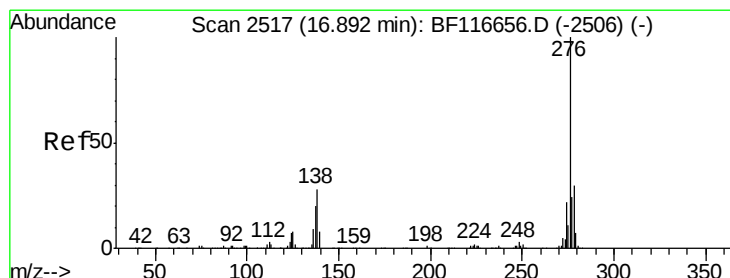
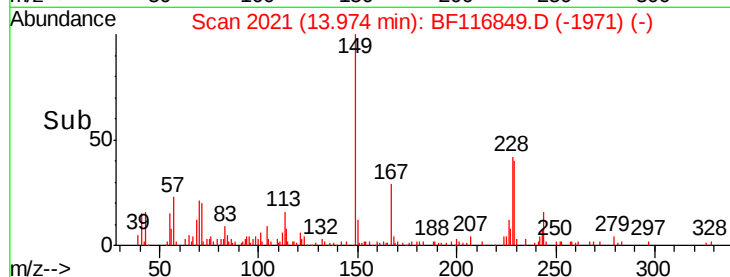
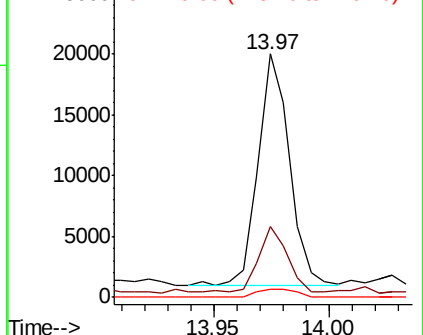


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 6.226 ng

RT: 16.92 min Scan# 2521

Delta R.T. 0.02 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

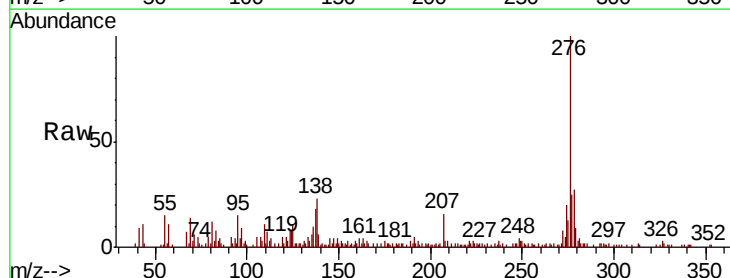
Tgt Ion:276 Resp: 50421

Ion Ratio Lower Upper

276 100

138 22.9 19.4 29.2

277 25.6 20.5 30.7

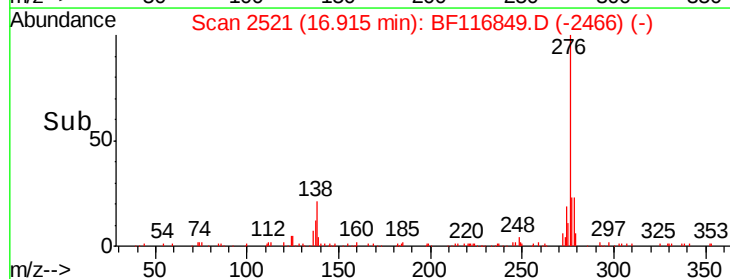
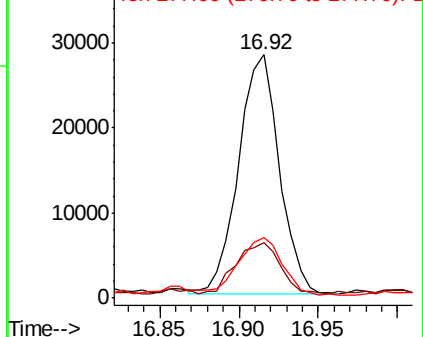


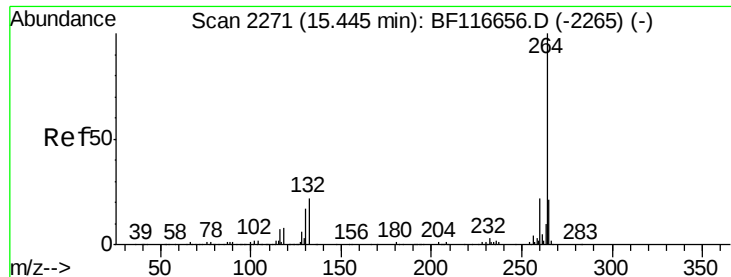
Abundance

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

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.02 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampleId :

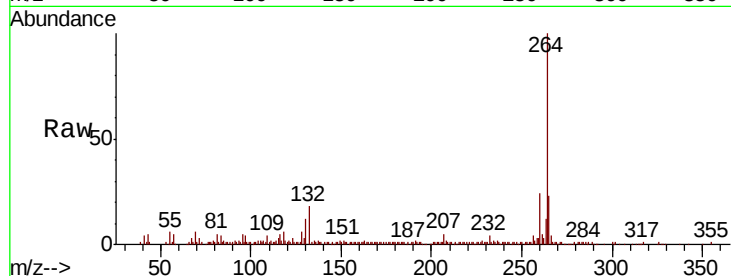
Tot Ion:264 Resp: 115691

Ion Ratio Lower Upper

264 100

260 23.5 18.3 27.5

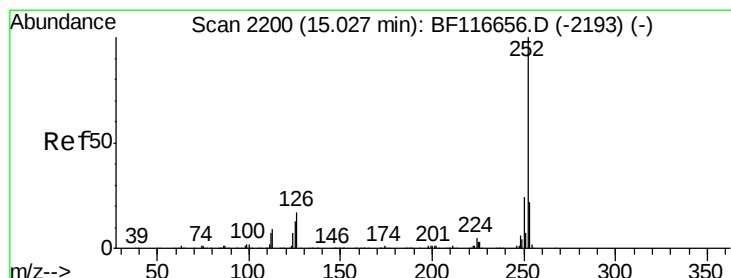
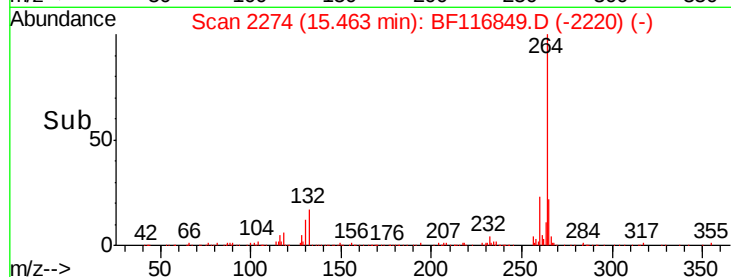
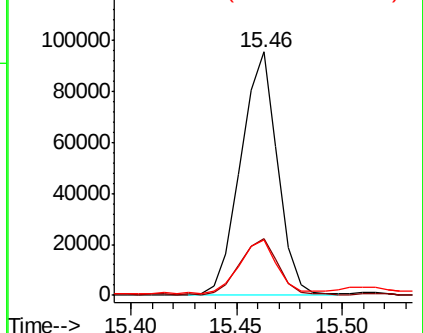
265 22.6 16.5 24.7



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: 28.419 ng

RT: 15.03 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

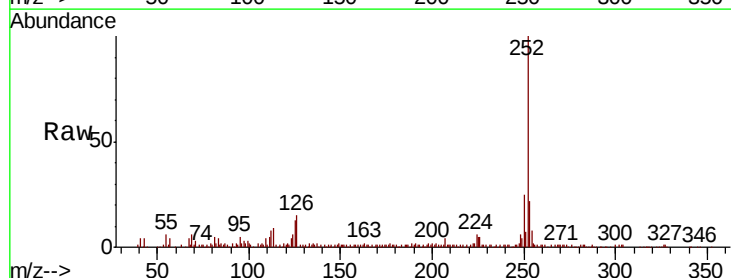
Tgt Ion:252 Resp: 198778

Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

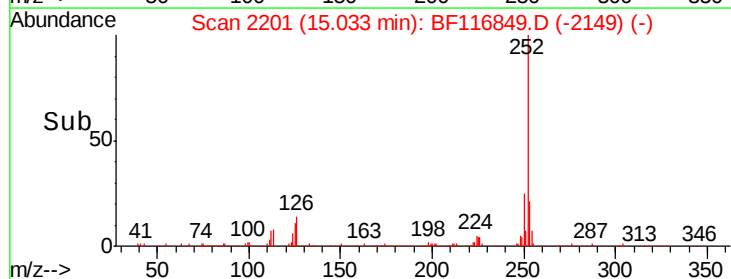
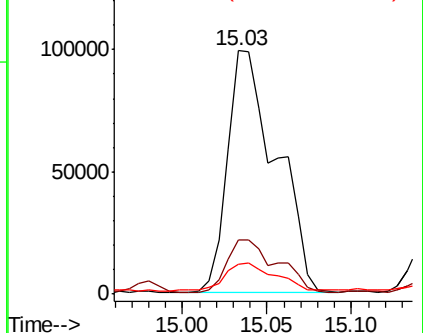
125 12.5 8.2 12.2#

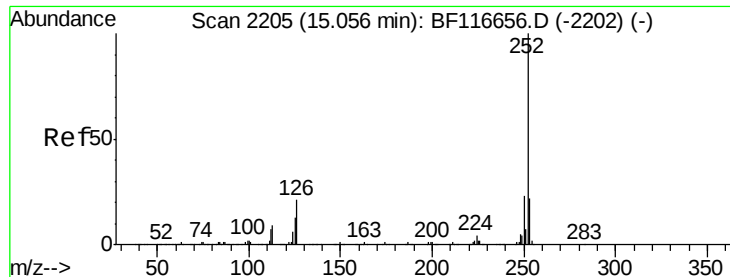


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

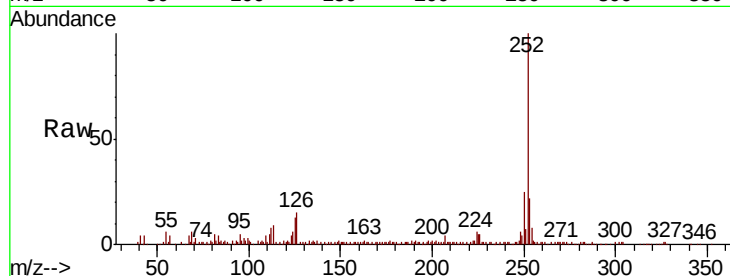




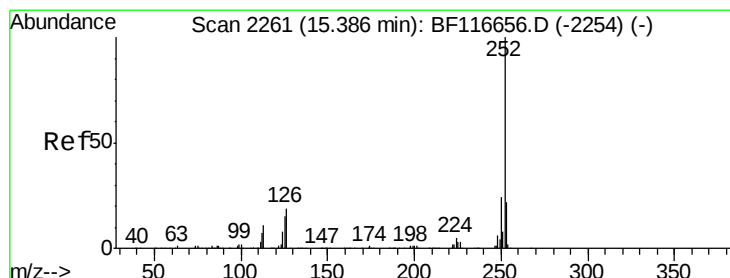
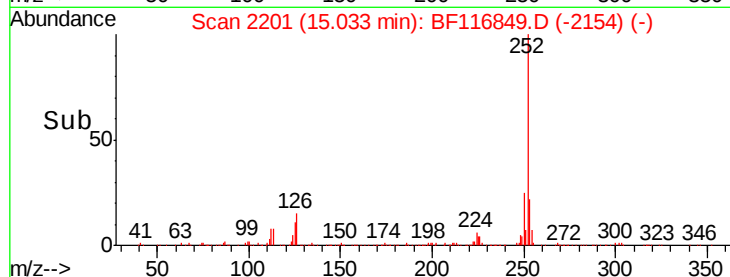
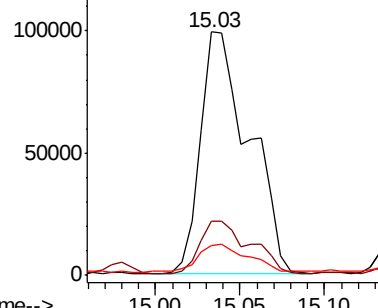
#89
Benzo(k)fluoranthene
Concen: 31.169 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.02 min
Lab File: BF116849.D
Acq: 5 Sep 2019 20:15

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 198778
Ion Ratio Lower Upper
252 100
253 22.2 17.7 26.5
125 12.5 8.6 13.0

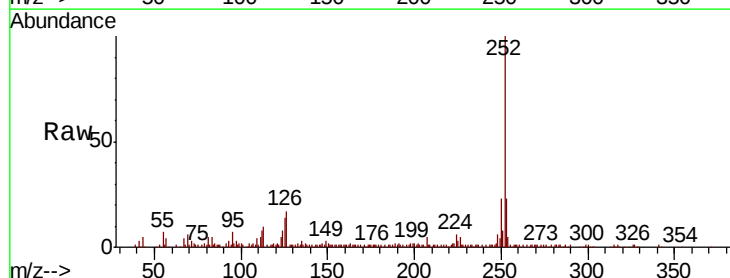


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

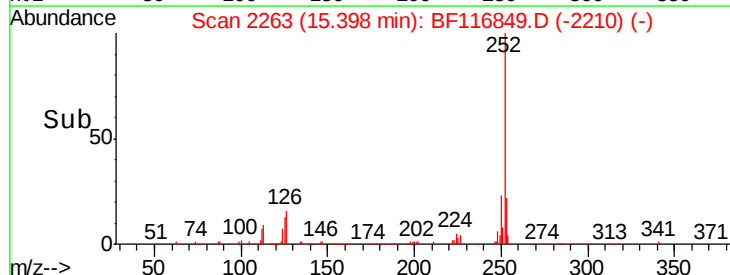
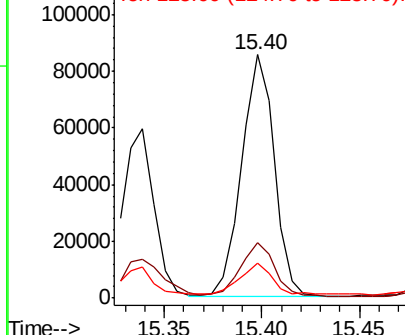


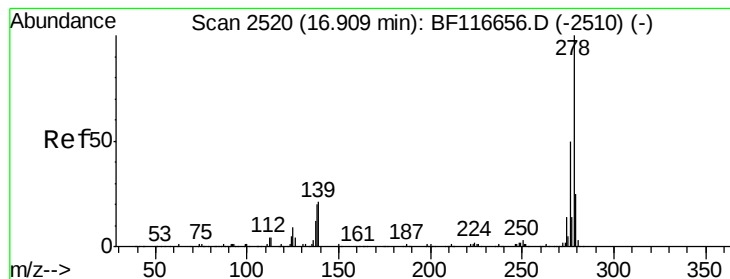
#90
Benzo(a)pyrene
Concen: 16.208 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF116849.D
Acq: 5 Sep 2019 20:15

Tgt Ion:252 Resp: 98631
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 14.3 9.8 14.8



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: 2.592 ng

RT: 16.92 min Scan# 2521

Delta R.T. 0.01 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

Instrument :

BNA_F

ClientSampled :

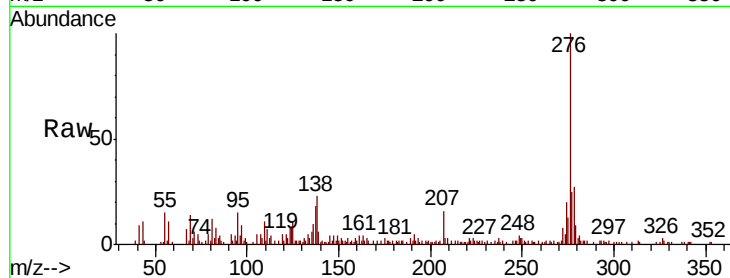
Tot Ion:278 Resp: 13807

Ion Ratio Lower Upper

278 100

139 22.7 12.4 18.6#

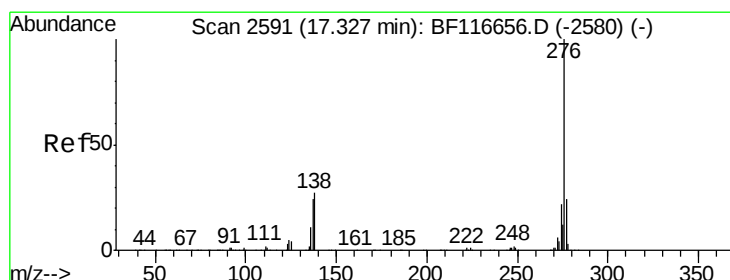
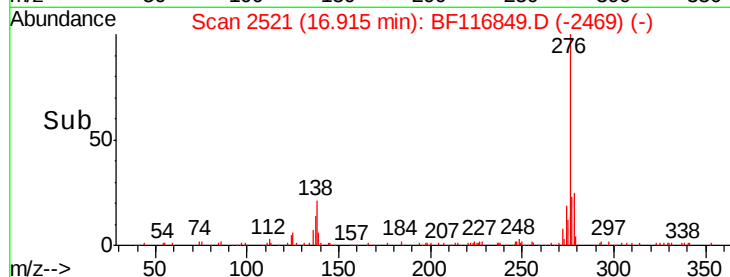
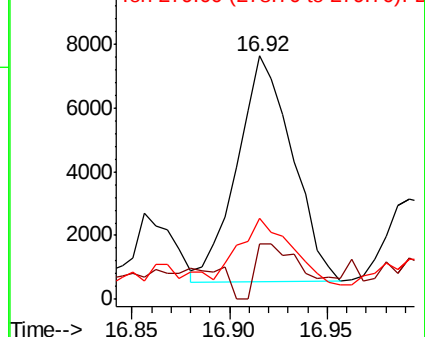
279 33.4 18.2 27.4#



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(g,h,i)perylene

Concen: 9.456 ng

RT: 17.36 min Scan# 2596

Delta R.T. 0.03 min

Lab File: BF116849.D

Acq: 5 Sep 2019 20:15

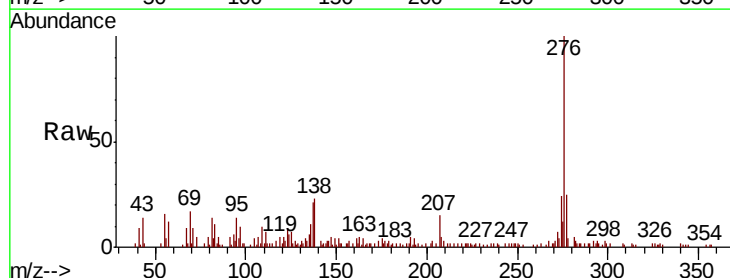
Tgt Ion:276 Resp: 51369

Ion Ratio Lower Upper

276 100

277 25.3 18.5 27.7

138 23.0 16.2 24.2



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

