

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
 Data File : BF116757.D
 Acq On : 1 Sep 2019 21:51
 Operator : HP/JU
 Sample : K4618-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 02 05:28:17 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	66409	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	285808	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	174162	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	305278	20.00	ng	0.00
76) Chrysene-d12	14.00	240	186030	20.00	ng	0.00
87) Perylene-d12	15.46	264	185734	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	495310	120.83	ng	0.00
7) Phenol-d6	6.47	99	673911	125.20	ng	0.00
23) Nitrobenzene-d5	7.40	82	415155	82.92	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	149800	128.66	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	682195	66.08	ng	0.00
79) Terphenyl-d14	12.94	244	643870	64.03	ng	0.00

Target Compounds

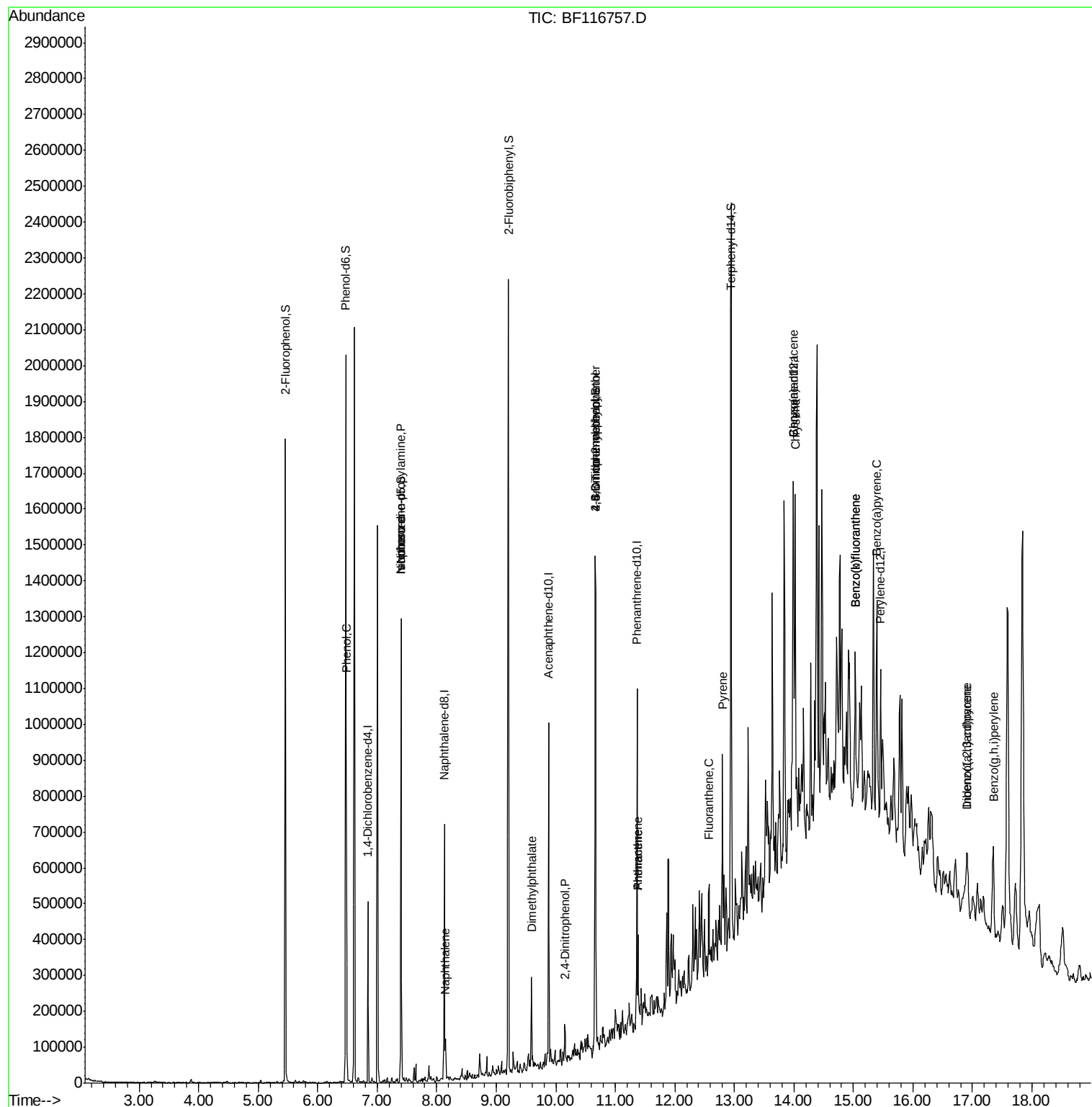
						Qvalue
10) Phenol	6.49	94	61441	10.308	ng	91
19) n-Nitroso-di-n-propylamine	7.40	70	55017	15.523	ng	# 72
25) Isophorone	7.40	82	413282	40.738	ng	# 66
31) Naphthalene	8.15	128	35211	2.591	ng	97
50) Dimethylphthalate	9.59	163	94461	7.856	ng	98
54) 2,4-Dinitrophenol	10.16	184	4158	13.571	ng	# 51
65) 4,6-Dinitro-2-methylphenol	10.66	198	392	7.746	ng	# 1
67) 4-Bromophenyl-phenylether	10.67	248	9926	3.201	ng	# 1
71) Phenanthrene	11.39	178	79055	4.652	ng	97
72) Anthracene	11.39	178	79055	4.621	ng	98
75) Fluoranthene	12.57	202	76246	4.565	ng	95
78) Pyrene	12.80	202	221047	13.367	ng	98
81) Benzo(a)anthracene	13.99	228	352599	29.948	ng	# 95
83) Chrysene	14.02	228	375257	30.937	ng	# 90
86) Indeno(1,2,3-cd)pyrene	16.90	276	100024	10.266	ng	# 83
88) Benzo(b)fluoranthene	15.03	252	234946	20.923	ng	# 94
89) Benzo(k)fluoranthene	15.03	252	234946	22.947	ng	# 94
90) Benzo(a)pyrene	15.40	252	296557	30.355	ng	96
91) Dibenzo(a,h)anthracene	16.92	278	89819	10.503	ng	# 70
92) Benzo(a,h,i)perylene	17.35	276	199927	22.924	ng	# 91

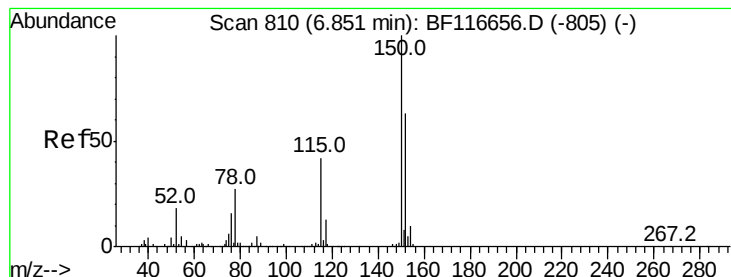
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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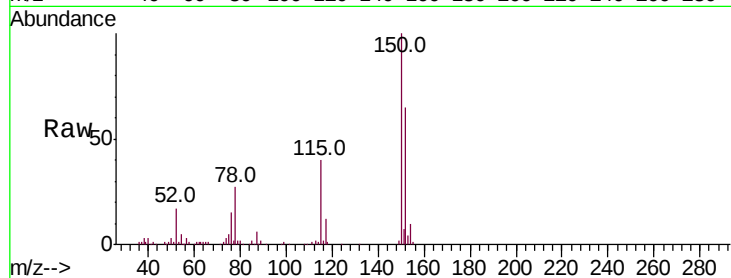


#1

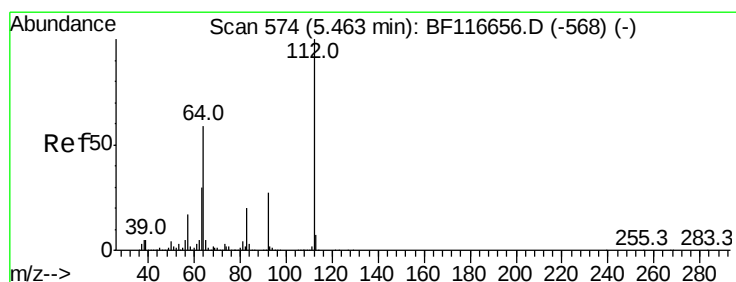
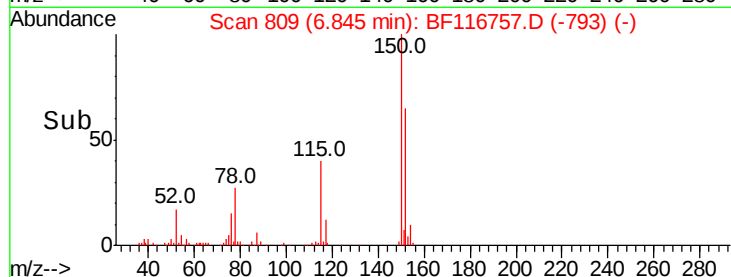
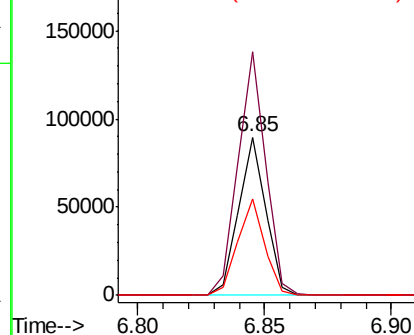
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 66409
Ion Ratio Lower Upper
152 100
150 154.0 124.4 186.6
115 61.4 49.9 74.9



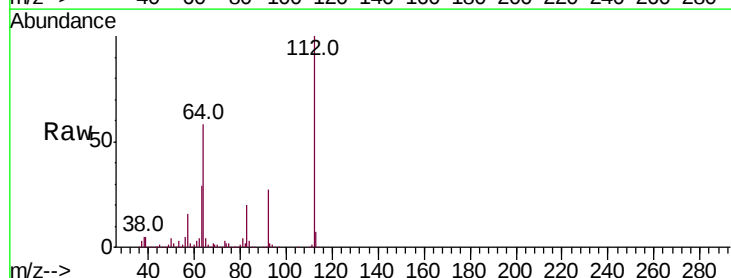
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



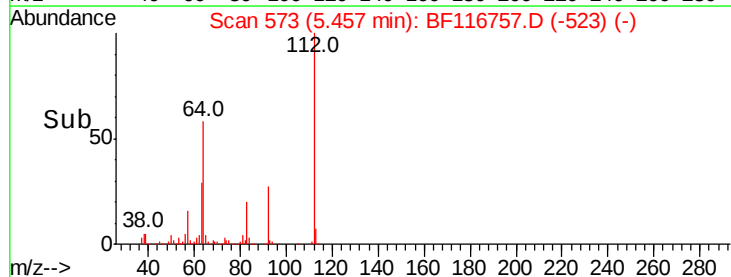
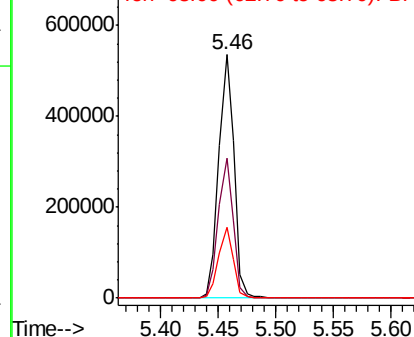
#5

2-Fluorophenol
Concen: 120.832 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion:112 Resp: 495310
Ion Ratio Lower Upper
112 100
64 57.6 47.1 70.7
63 29.2 24.9 37.3



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: 125.200 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

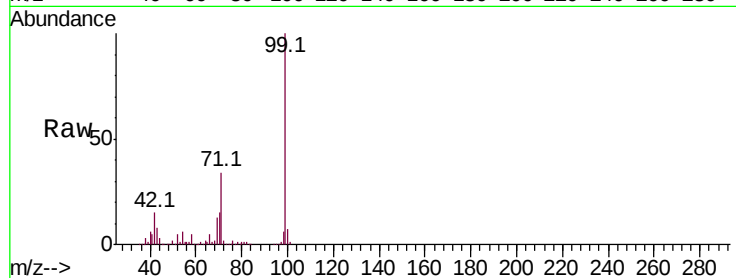
Tot Ion: 99 Resp: 673911

Ion Ratio Lower Upper

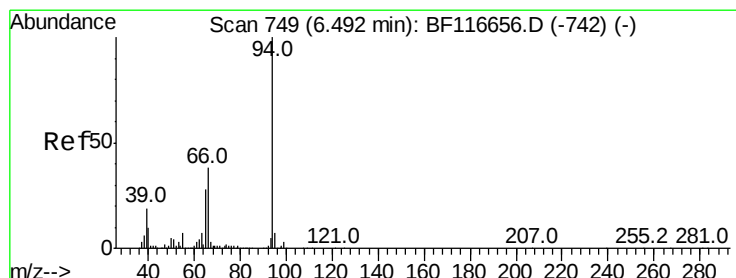
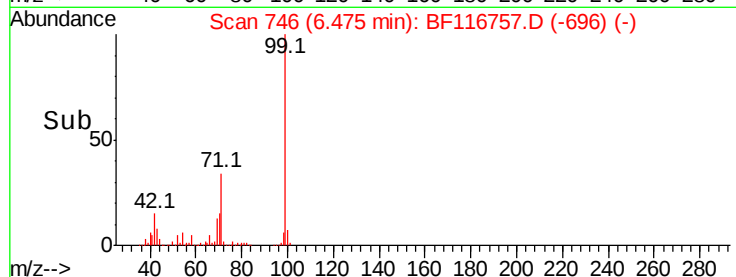
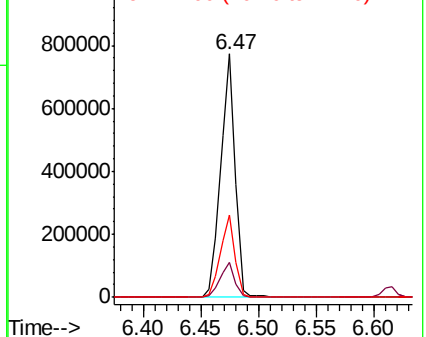
99 100

42 14.6 13.7 20.5

71 34.0 30.8 46.2



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



#10

Phenol

Concen: 10.308 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

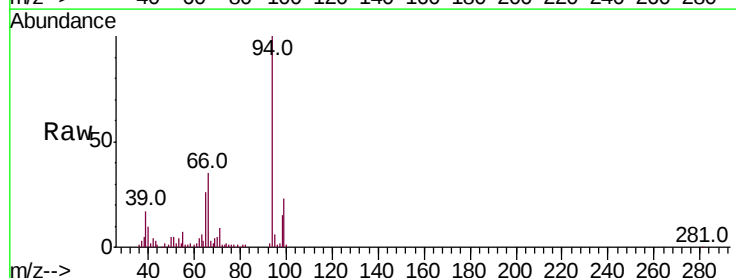
Tgt Ion: 94 Resp: 61441

Ion Ratio Lower Upper

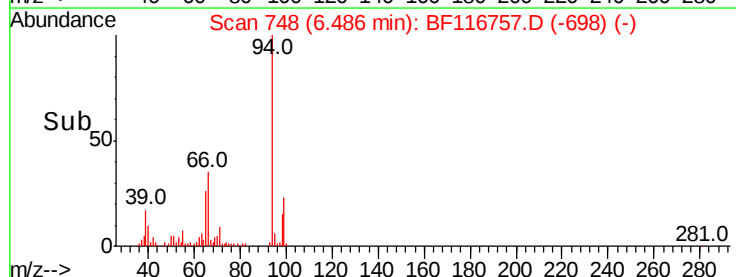
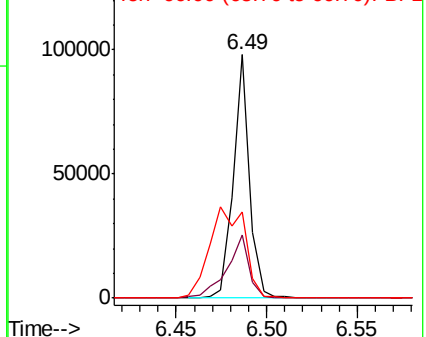
94 100

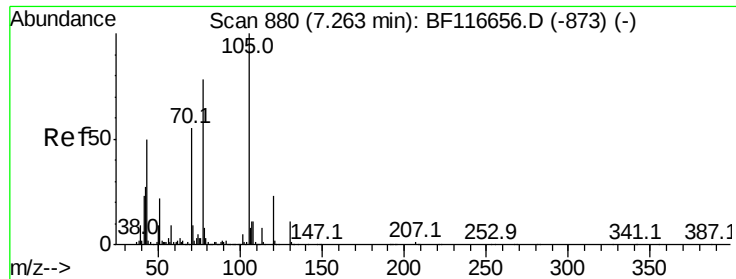
65 26.1 10.8 50.8

66 35.2 21.1 61.1



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

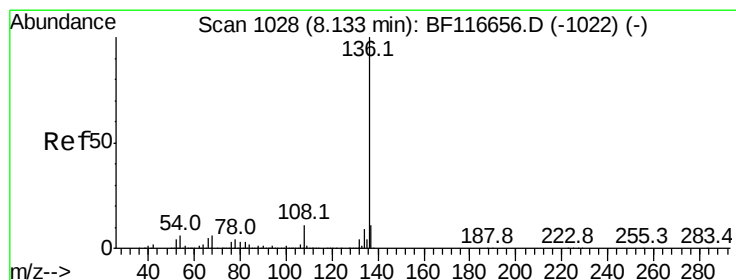
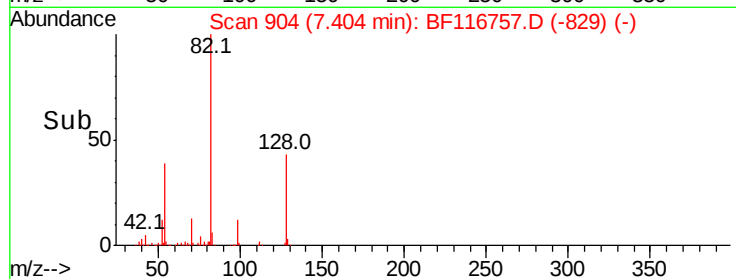
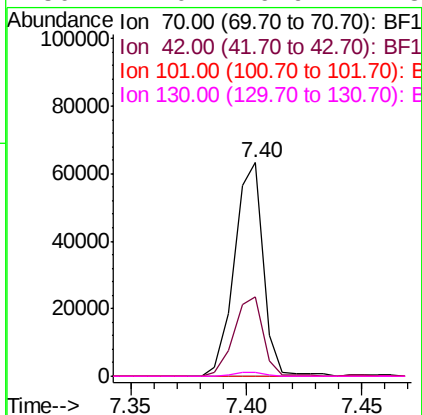
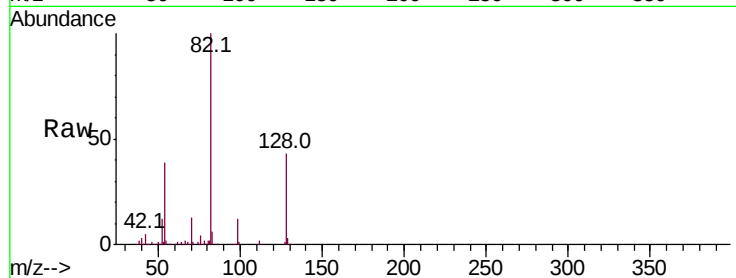




#19
n-Nitroso-di-n-propylamine
Concen: 15.523 ng
RT: 7.40 min Scan# 904
Delta R.T. 0.14 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

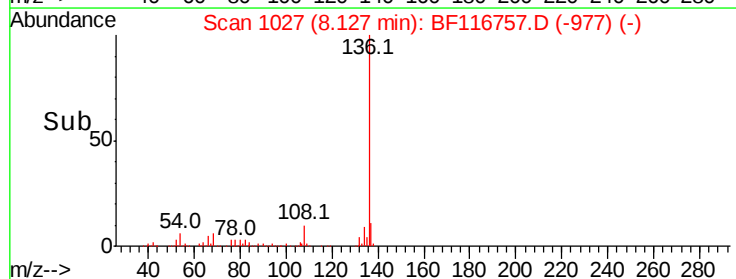
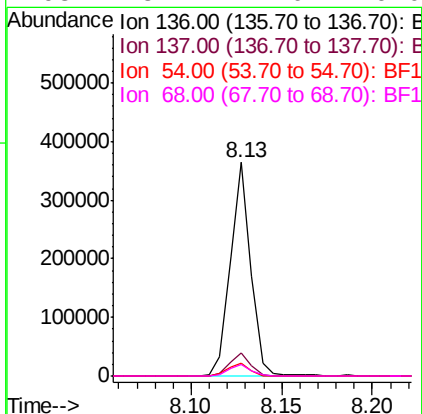
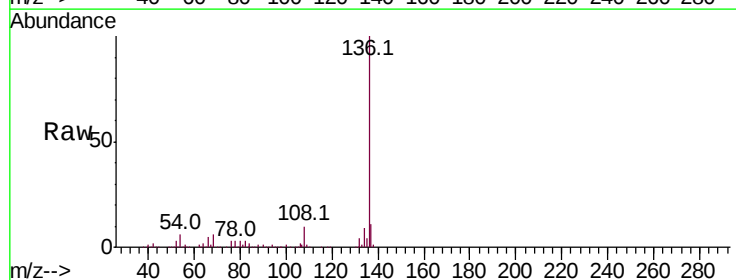
Instrument :
BNA_F
ClientSampleId :

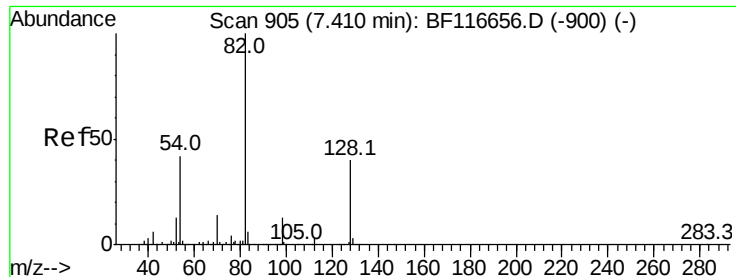
Tot Ion:	70	Resp:	55017
Ion	Ratio	Lower	Upper
70	100		
42	37.2	43.5	65.3#
101	0.0	7.8	11.6#
130	2.0	16.6	24.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion:	136	Resp:	285808
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	6.2	4.8	7.2
68	5.7	4.0	6.0





#23

Nitrobenzene-d5

Concen: 82.923 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

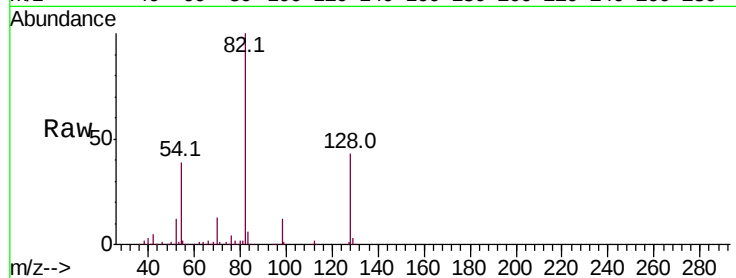
Tot Ion: 82 Resp: 415155

Ion Ratio Lower Upper

82 100

128 43.0 32.8 49.2

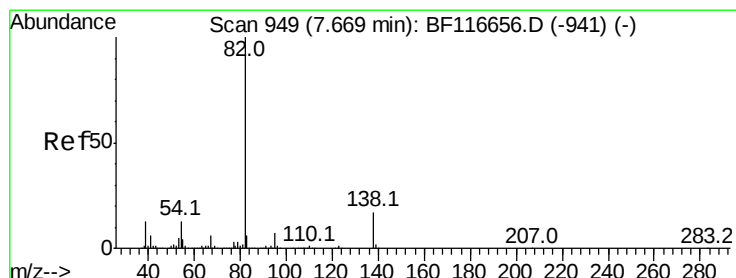
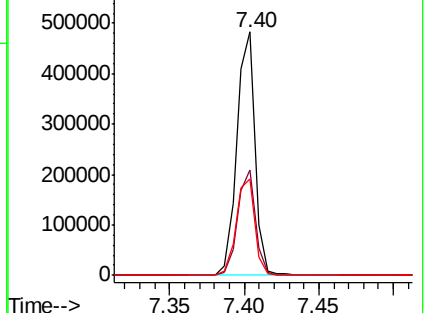
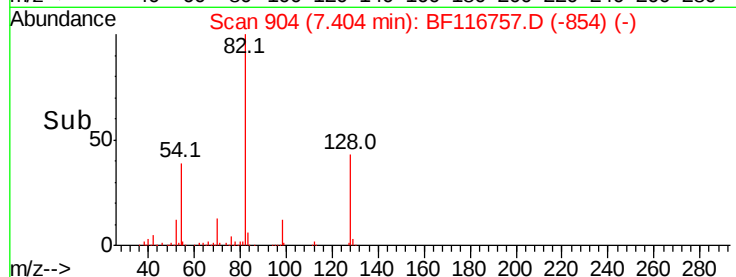
54 39.4 36.9 55.3



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 40.738 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

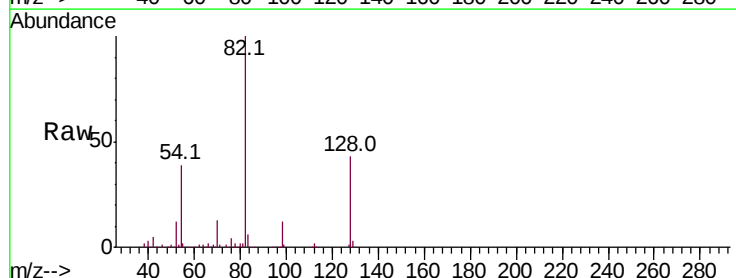
Tgt Ion: 82 Resp: 413282

Ion Ratio Lower Upper

82 100

95 0.1 5.8 8.6#

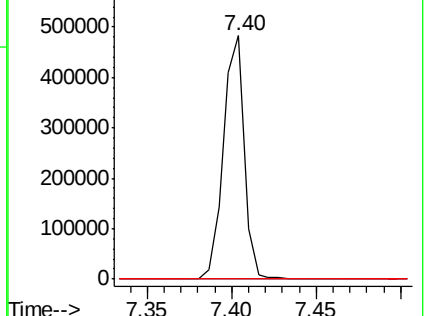
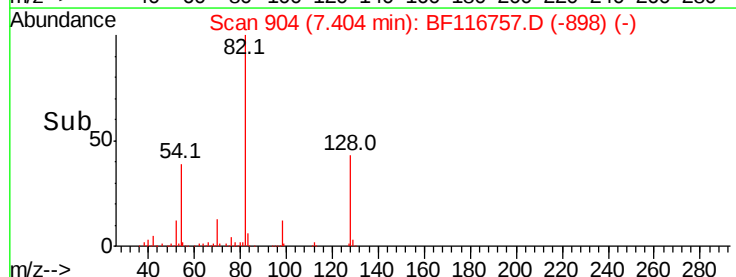
138 0.0 13.5 20.3#

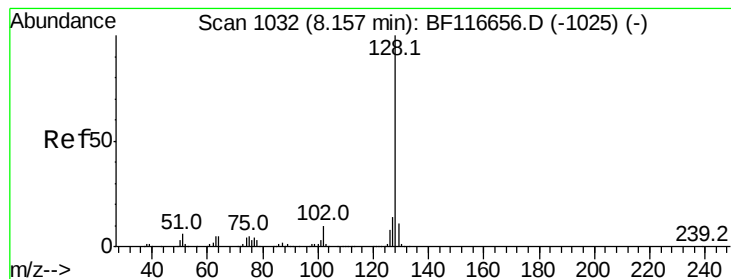


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 2.591 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampled :

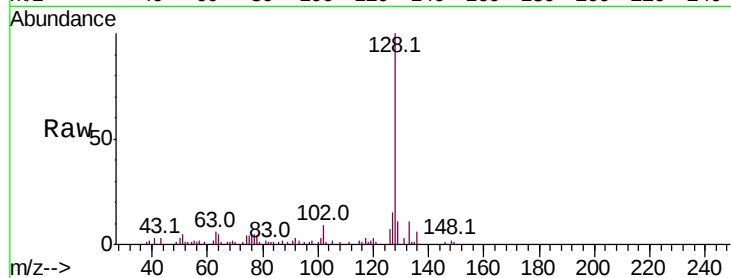
Tot Ion:128 Resp: 35211

Ion Ratio Lower Upper

128 100

129 10.5 8.6 13.0

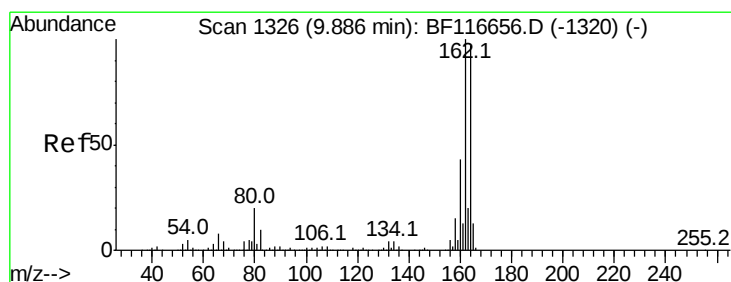
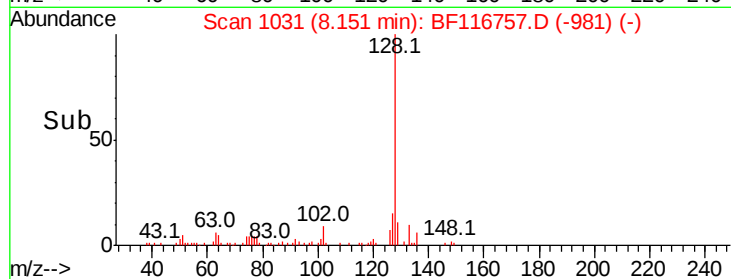
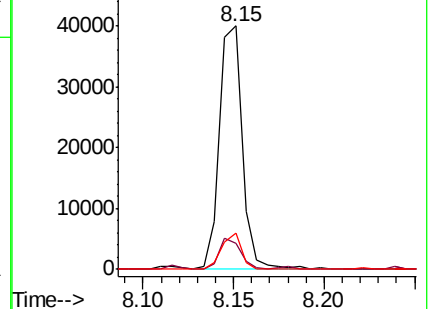
127 15.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

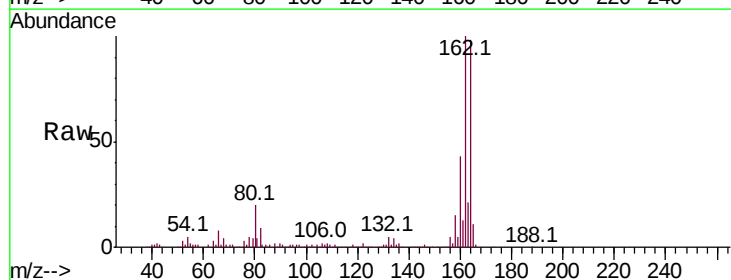
Tgt Ion:164 Resp: 174162

Ion Ratio Lower Upper

164 100

162 101.8 81.4 122.0

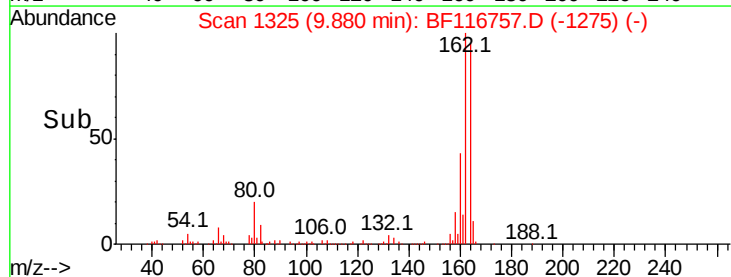
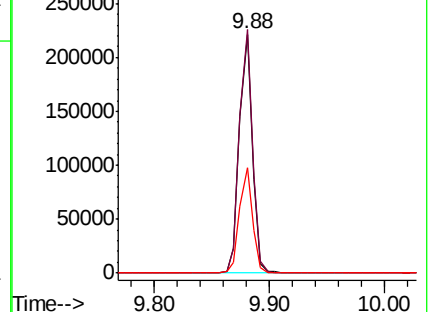
160 44.1 35.4 53.2

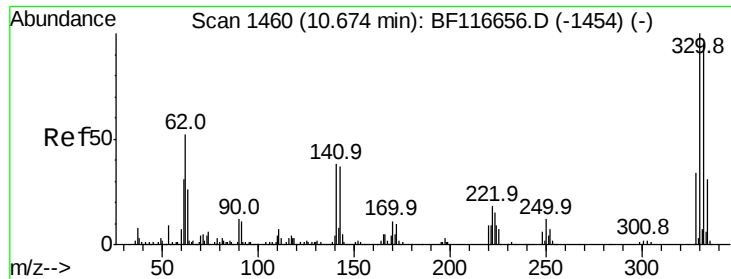


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 128.660 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

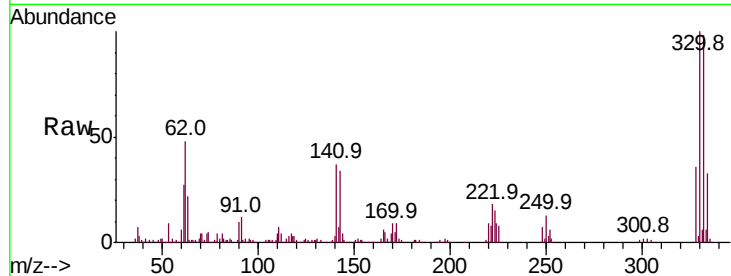
Tot Ion:330 Resp: 149800

Ion Ratio Lower Upper

330 100

332 97.2 76.9 115.3

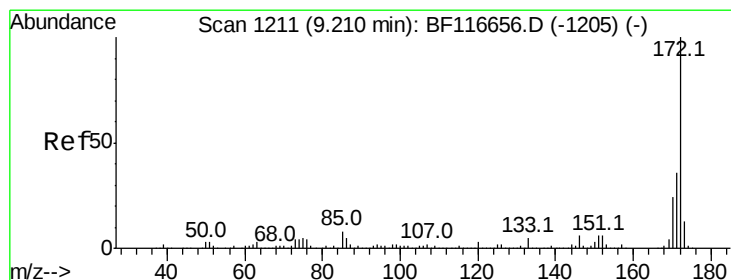
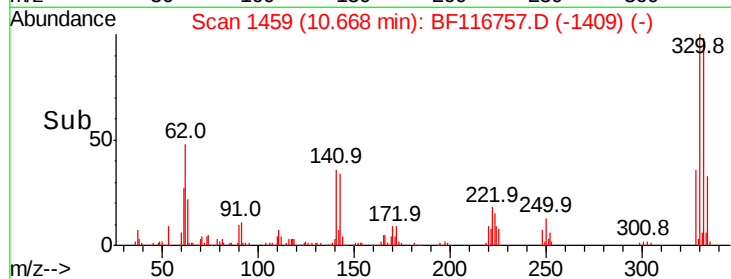
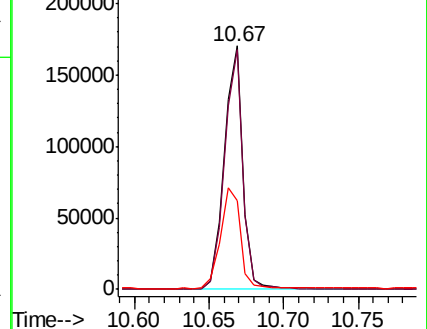
141 44.5 31.4 47.2



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: 66.076 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

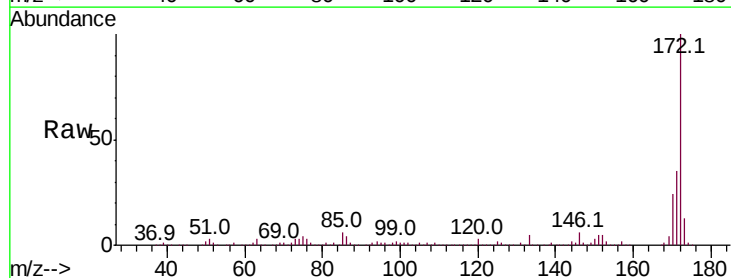
Tgt Ion:172 Resp: 682195

Ion Ratio Lower Upper

172 100

171 35.2 27.8 41.6

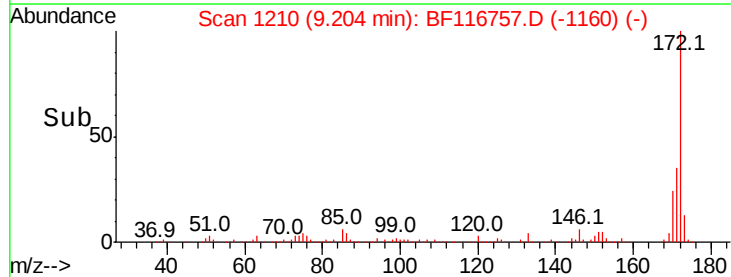
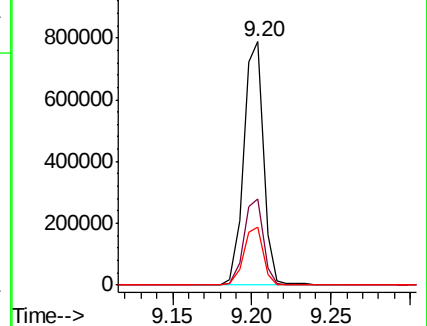
170 23.8 18.9 28.3

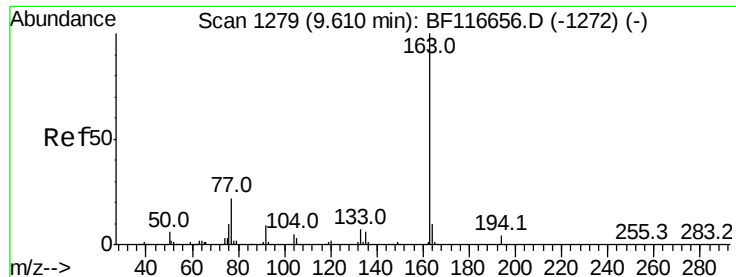


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

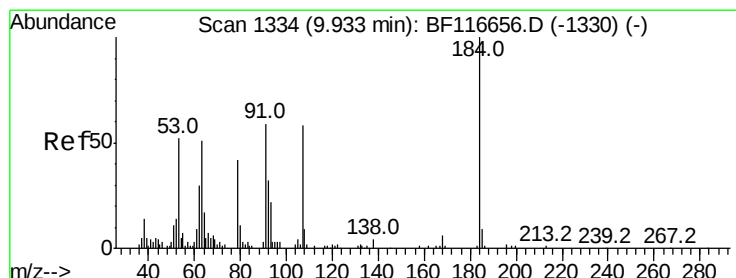
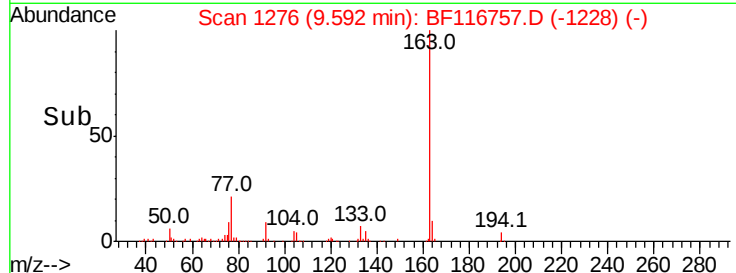
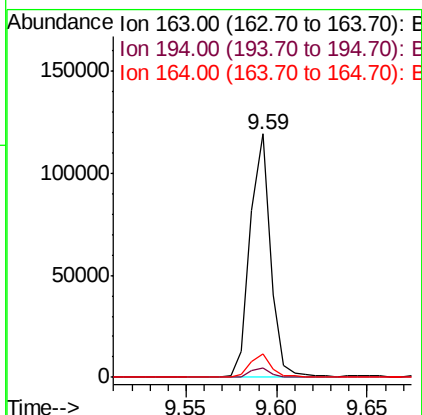
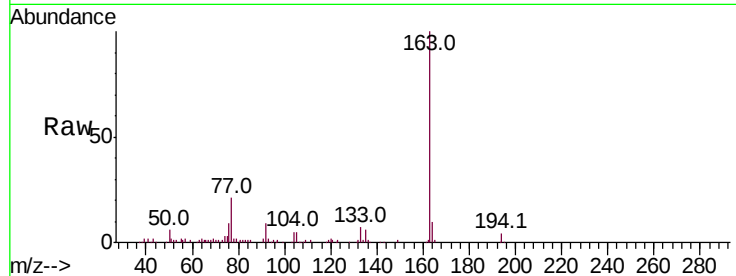




#50
Dimethylphthalate
Concen: 7.856 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

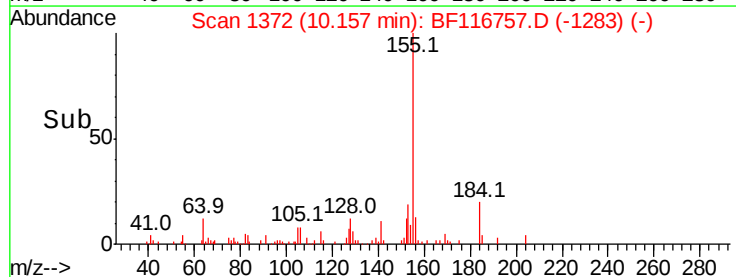
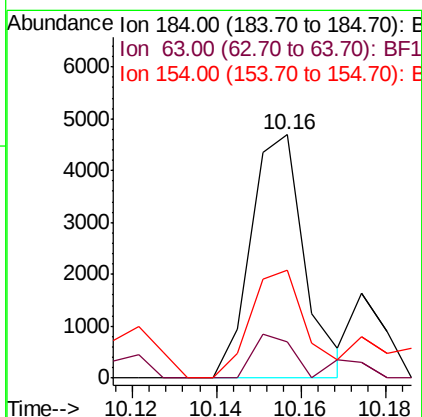
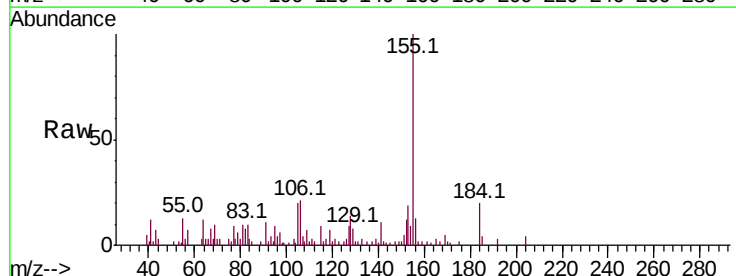
Instrument :
BNA_F
ClientSampleId :

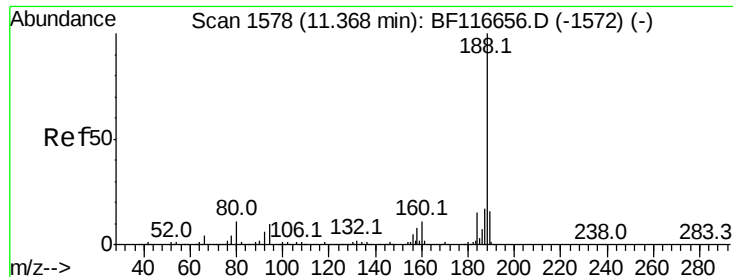
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.8	4.2
164	9.7	8.6	12.8



#54
2,4-Dinitrophenol
Concen: 13.571 ng
RT: 10.16 min Scan# 1372
Delta R.T. 0.22 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
184	100		
63	14.7	52.2	78.2#
154	44.3	60.8	91.2#

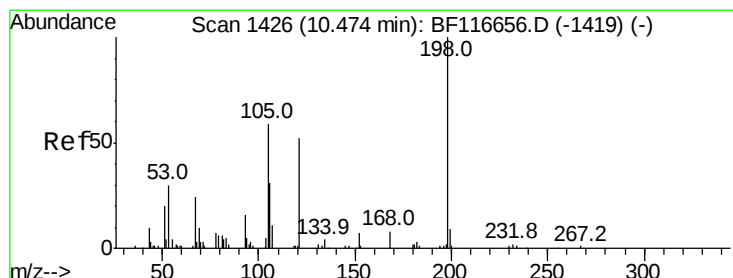
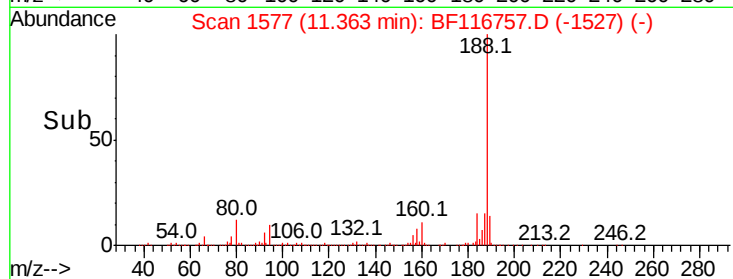
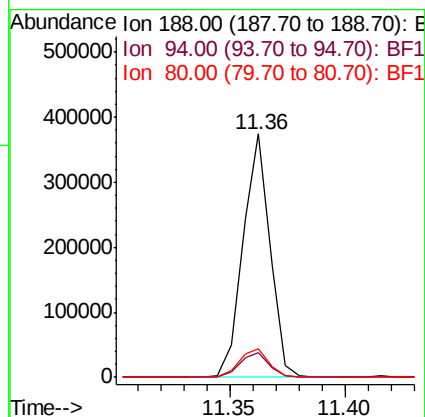
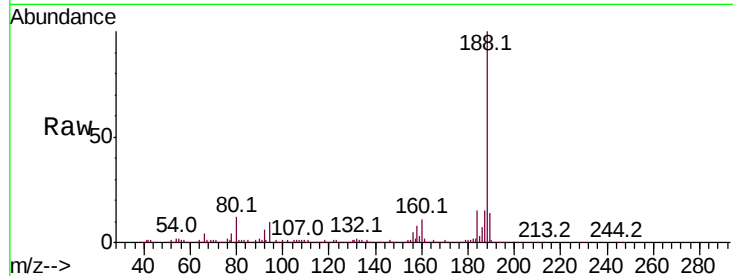




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

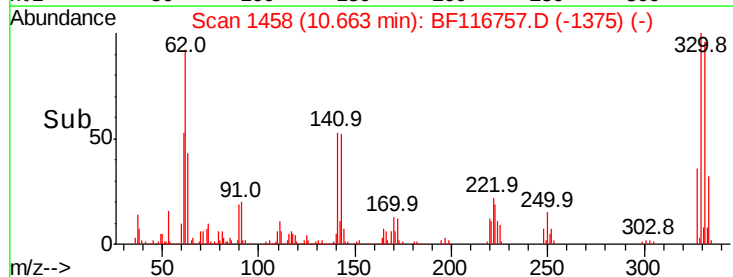
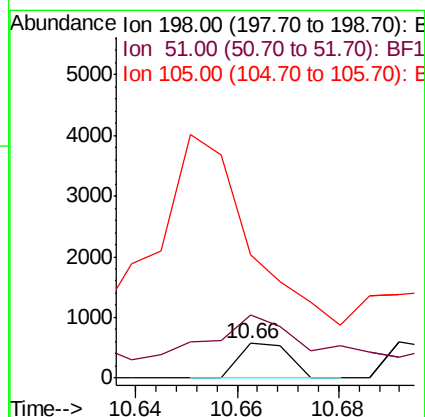
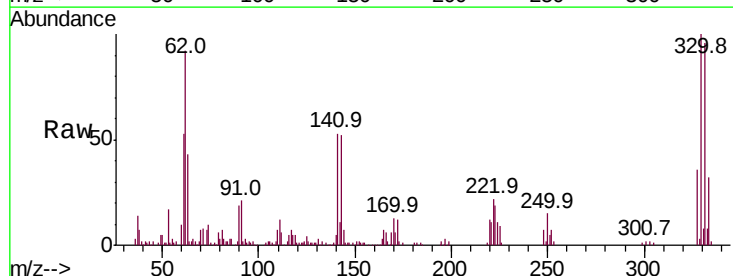
Instrument :
BNA_F
ClientSampled :

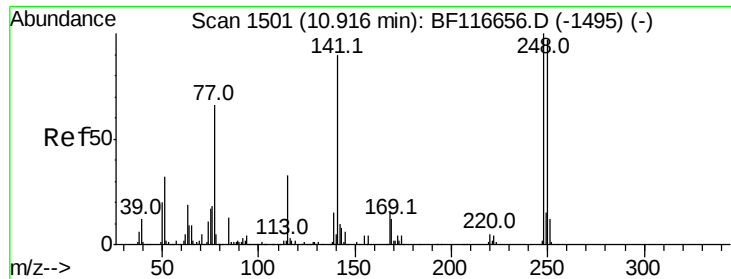
Tot Ion:188 Resp: 305278
Ion Ratio Lower Upper
188 100
94 10.0 7.3 10.9
80 12.0 8.4 12.6



#65
4,6-Dinitro-2-methylphenol
Concen: 7.746 ng
RT: 10.66 min Scan# 1458
Delta R.T. 0.19 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion:198 Resp: 392
Ion Ratio Lower Upper
198 100
51 180.7 18.4 58.4#
105 354.2 22.9 62.9#

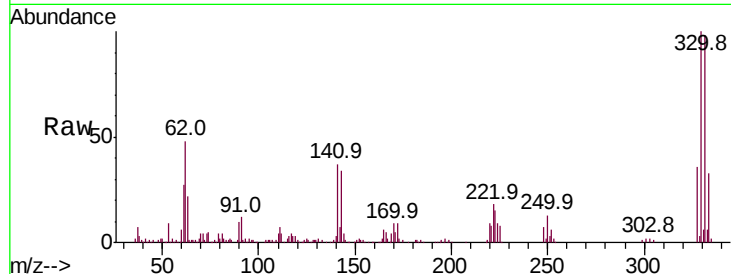




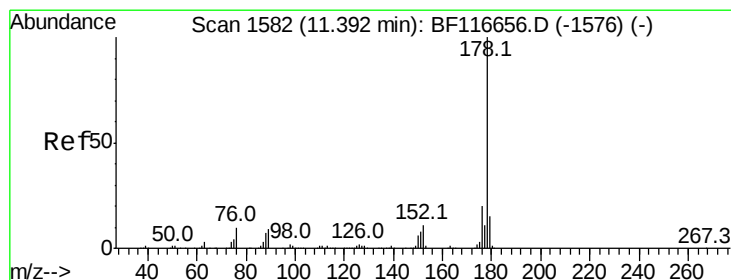
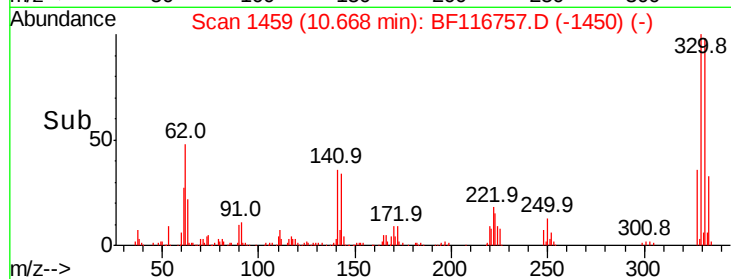
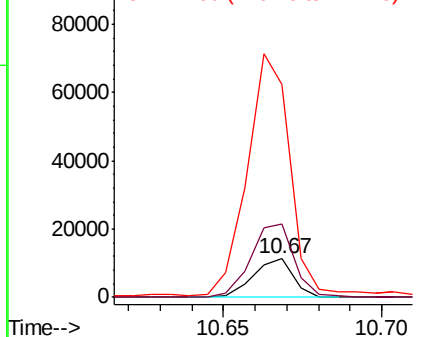
#67
4-Bromophenyl-phenylether
Concen: 3.201 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.25 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 9926
Ion Ratio Lower Upper
248 100
250 189.7 77.8 116.8#
141 550.5 75.9 113.9#

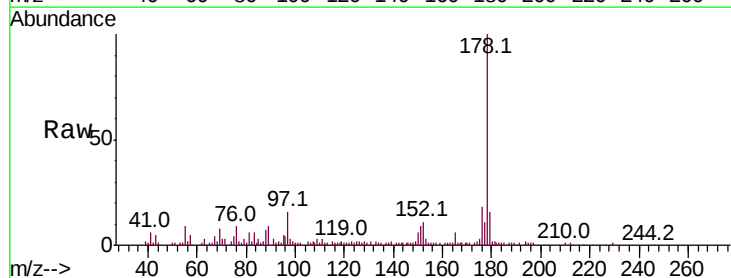


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

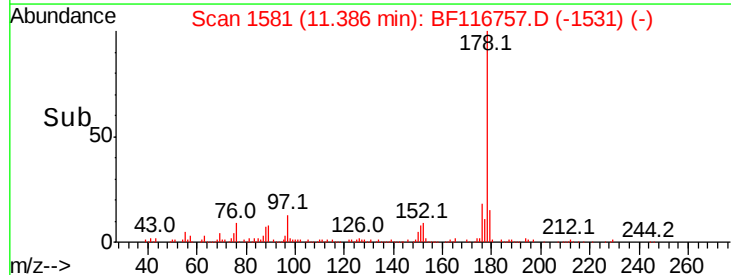
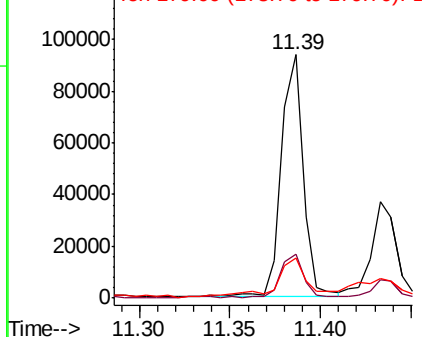


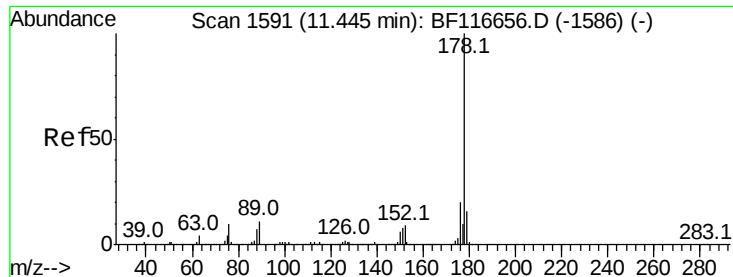
#71
Phenanthrene
Concen: 4.652 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion:178 Resp: 79055
Ion Ratio Lower Upper
178 100
176 18.0 15.4 23.0
179 16.4 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: 4.621 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.06 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

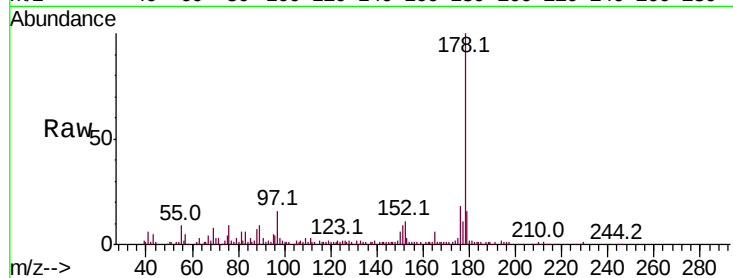
Tot Ion:178 Resp: 79055

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.0

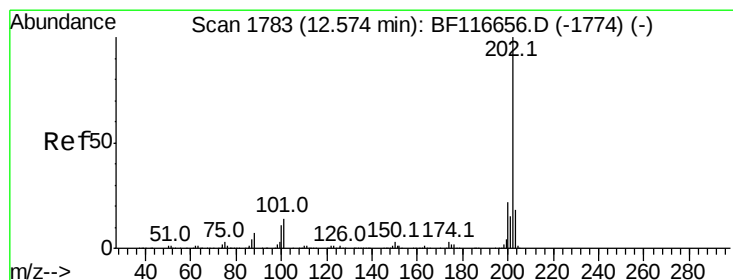
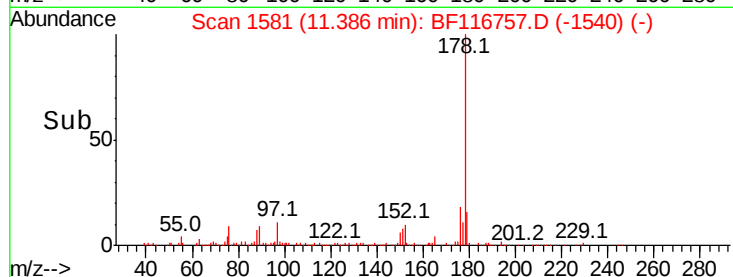
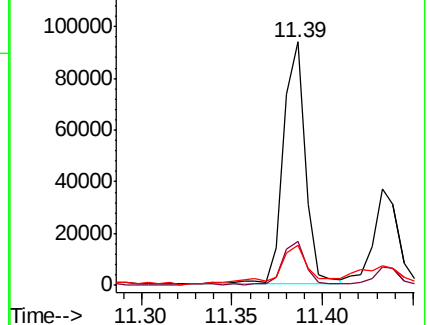
179 16.4 12.5 18.7



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: 4.565 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

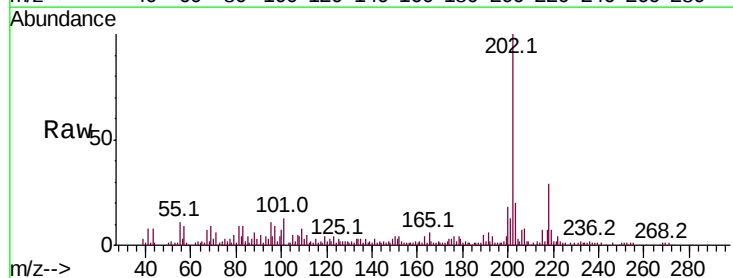
Tgt Ion:202 Resp: 76246

Ion Ratio Lower Upper

202 100

101 12.7 0.0 31.3

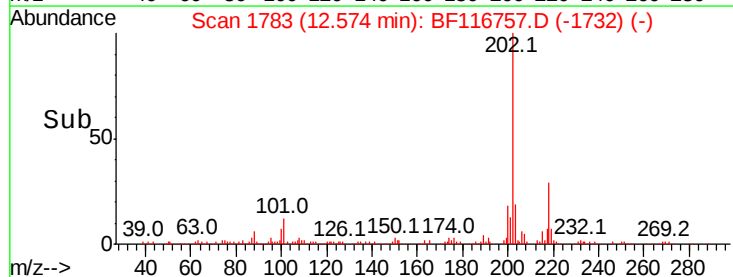
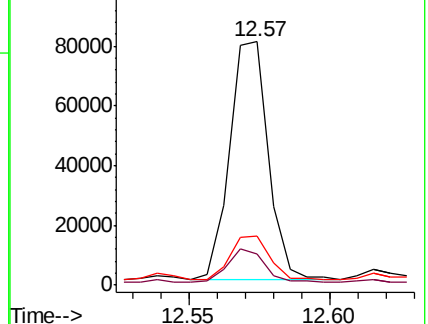
203 20.2 0.0 37.6

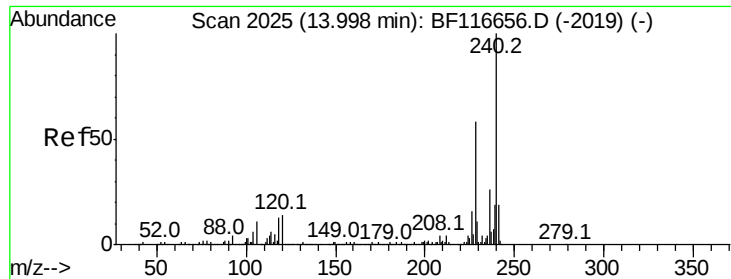


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

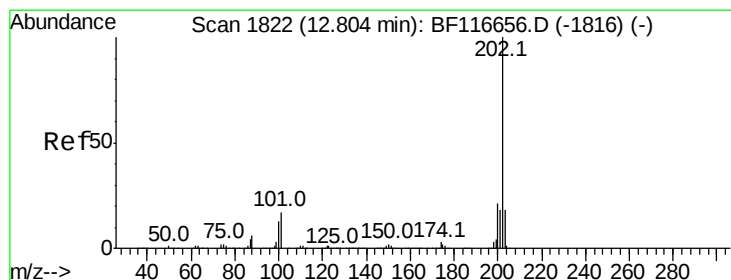
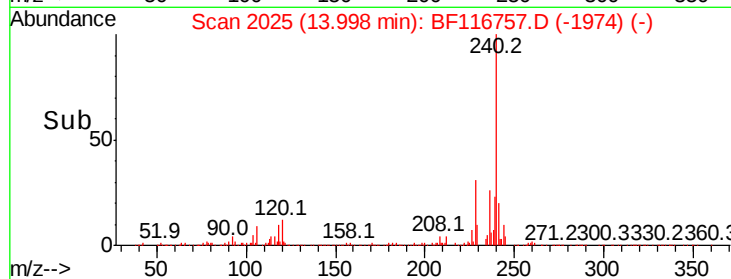
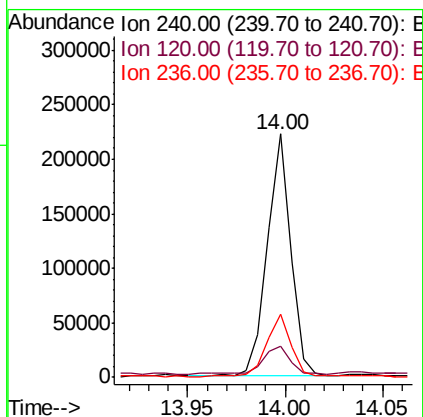
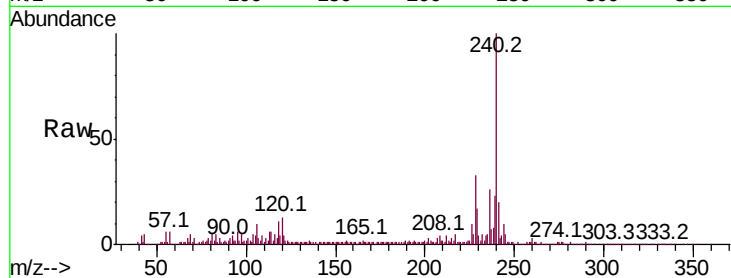




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

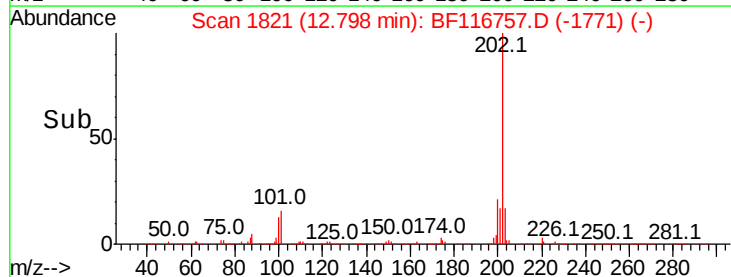
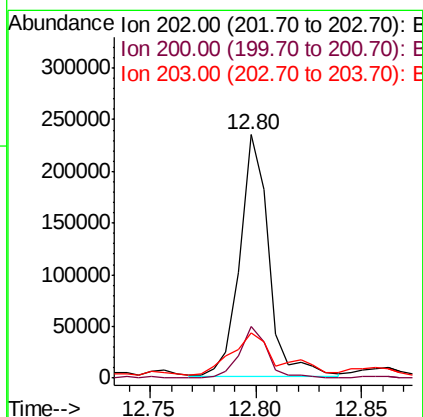
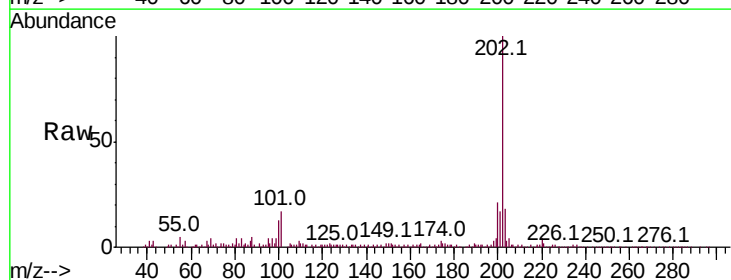
Instrument :
BNA_F
ClientSampleId :

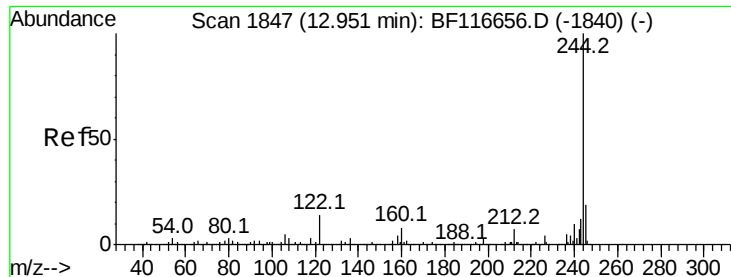
Tot Ion:240 Resp: 186030
Ion Ratio Lower Upper
240 100
120 12.9 9.1 13.7
236 26.2 21.1 31.7



#78
Pyrene
Concen: 13.367 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion:202 Resp: 221047
Ion Ratio Lower Upper
202 100
200 21.1 16.5 24.7
203 18.4 13.7 20.5





#79

Terphenyl-d14

Concen: 64.028 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

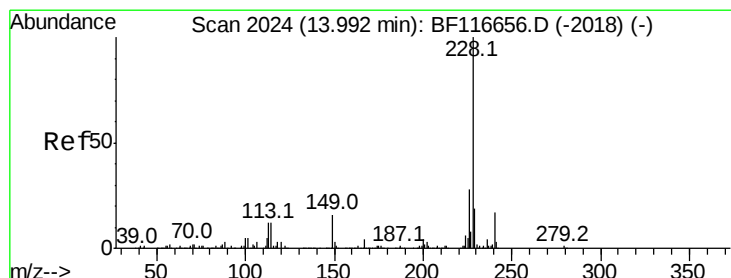
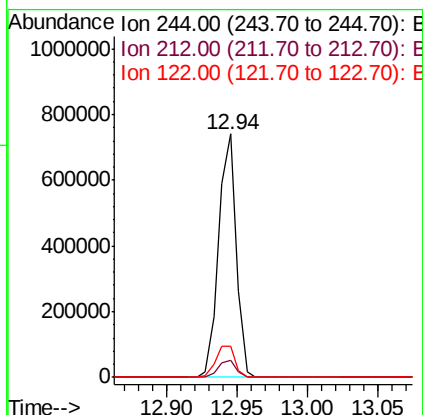
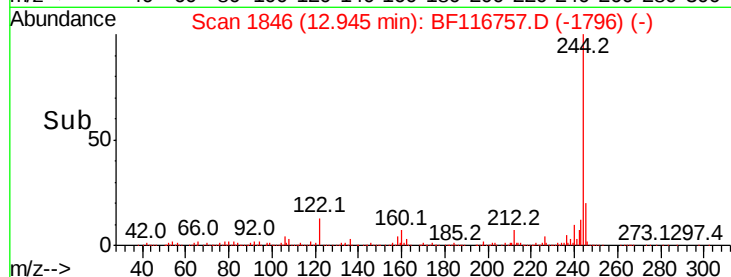
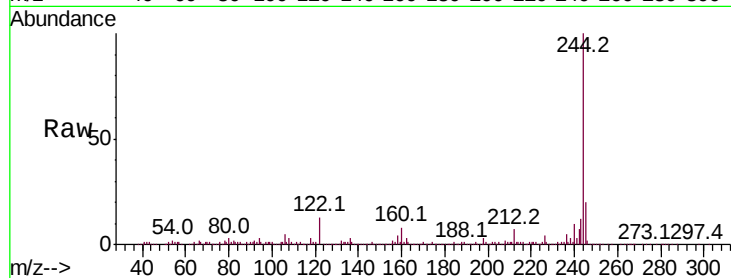
Tot Ion:244 Resp: 643870

Ion Ratio Lower Upper

244 100

212 7.1 6.1 9.1

122 13.0 10.2 15.4



#81

Benzo(a)anthracene

Concen: 29.948 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

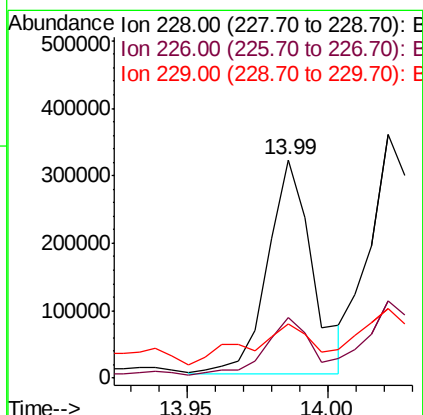
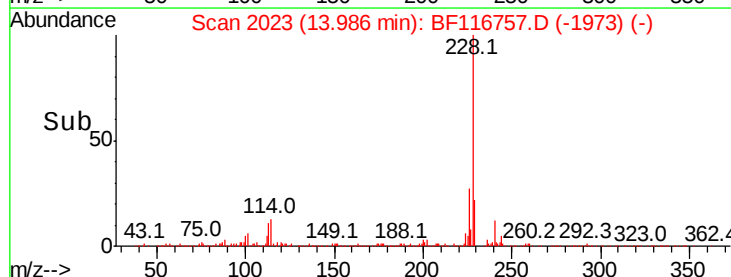
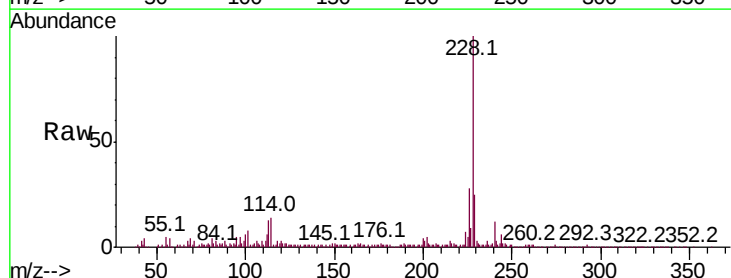
Tgt Ion:228 Resp: 352599

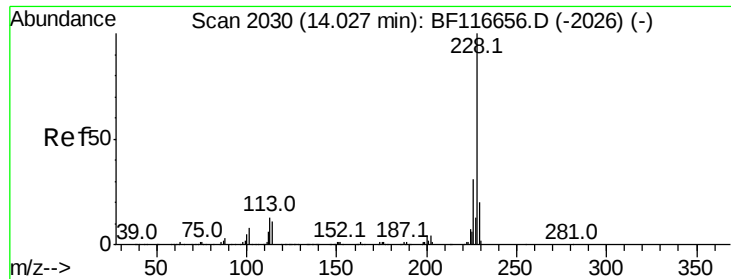
Ion Ratio Lower Upper

228 100

226 28.0 22.0 33.0

229 25.1 16.4 24.6#





#83

Chrysene

Concen: 30.937 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampled :

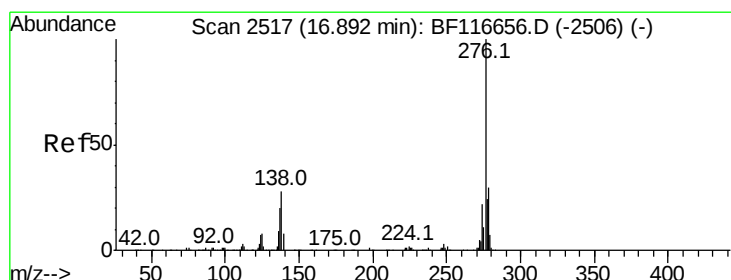
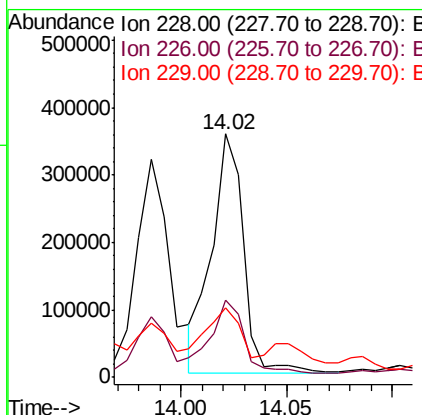
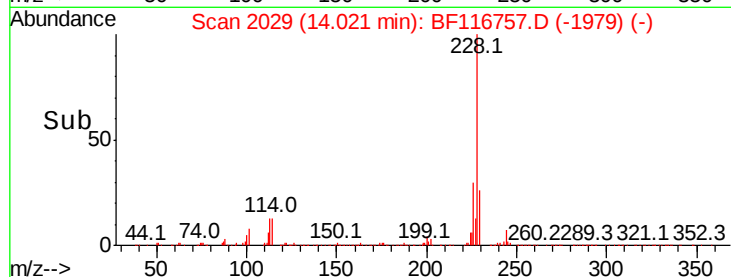
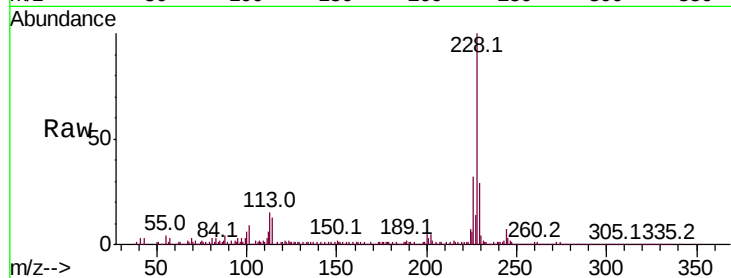
Tot Ion:228 Resp: 375257

Ion Ratio Lower Upper

228 100

226 31.7 24.0 36.0

229 28.5 15.4 23.0#



#86

Indeno(1,2,3-cd)pyrene

Concen: 10.266 ng

RT: 16.90 min Scan# 2519

Delta R.T. 0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

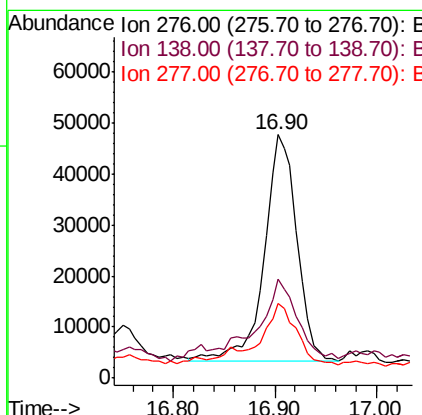
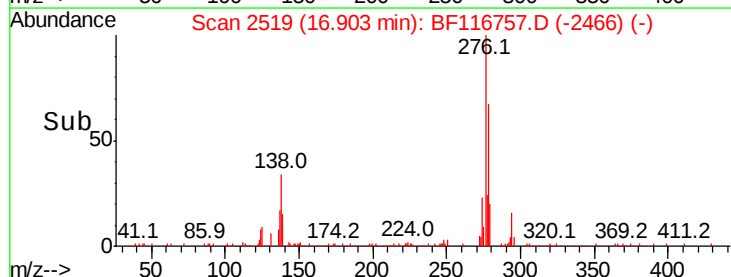
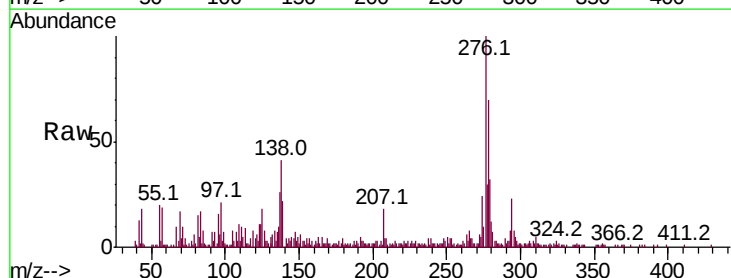
Tgt Ion:276 Resp: 100024

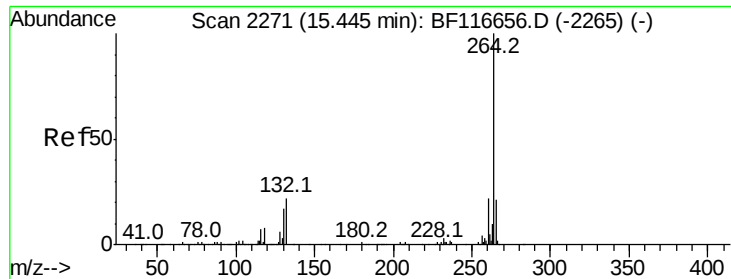
Ion Ratio Lower Upper

276 100

138 41.4 19.4 29.2#

277 26.1 20.5 30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2273

Delta R.T. 0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

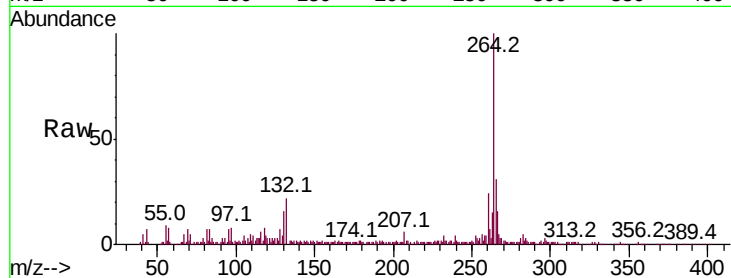
Tot Ion:264 Resp: 185734

Ion Ratio Lower Upper

264 100

260 23.8 18.3 27.5

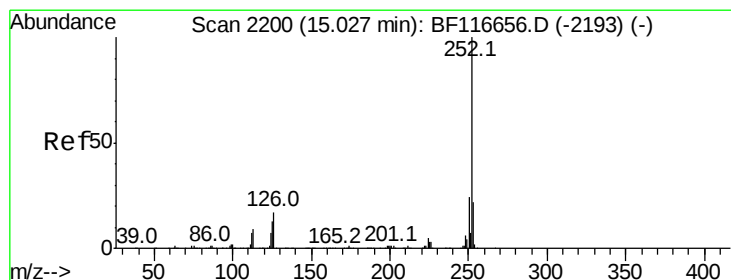
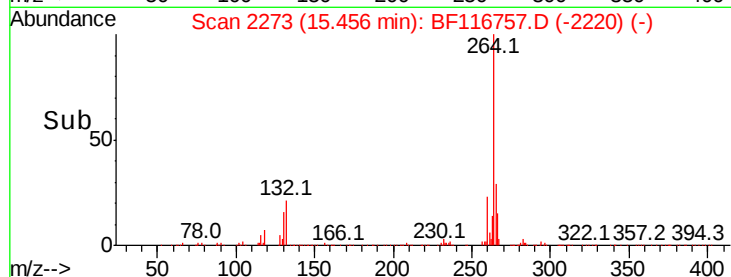
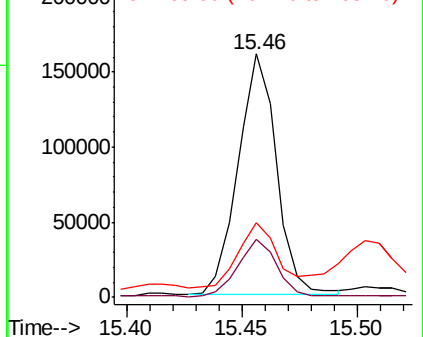
265 30.8 16.5 24.7#



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: 20.923 ng

RT: 15.03 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

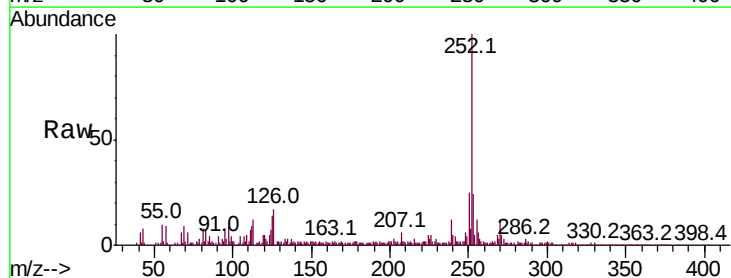
Tgt Ion:252 Resp: 234946

Ion Ratio Lower Upper

252 100

253 24.3 17.7 26.5

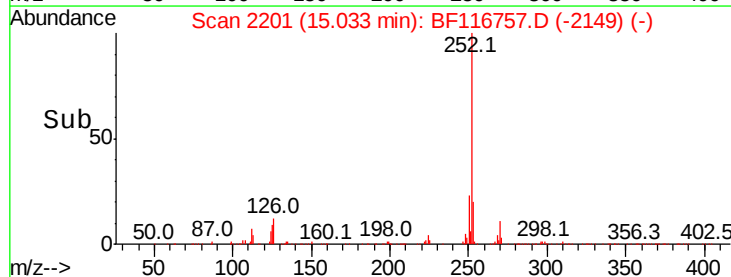
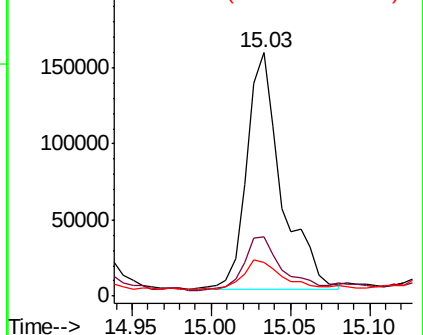
125 13.8 8.2 12.2#

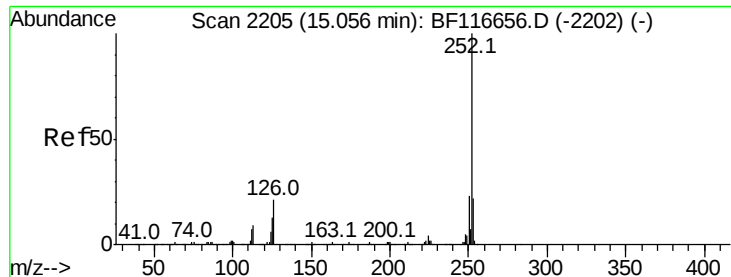


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

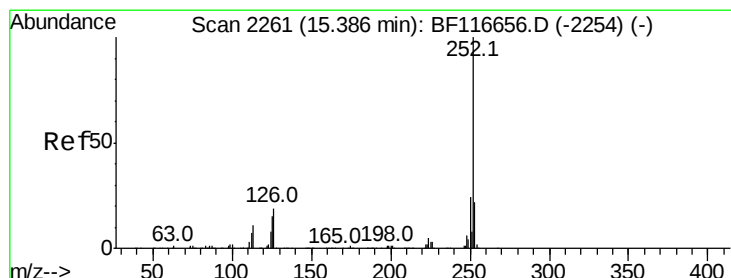
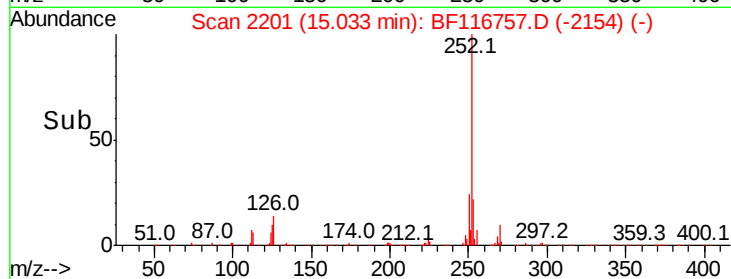
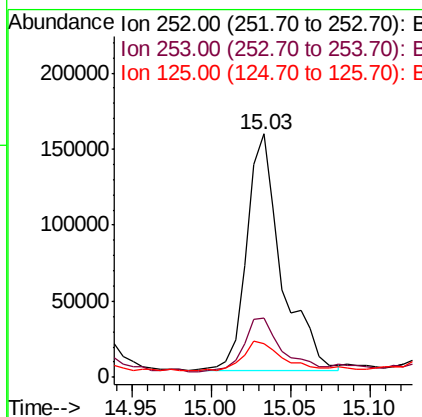
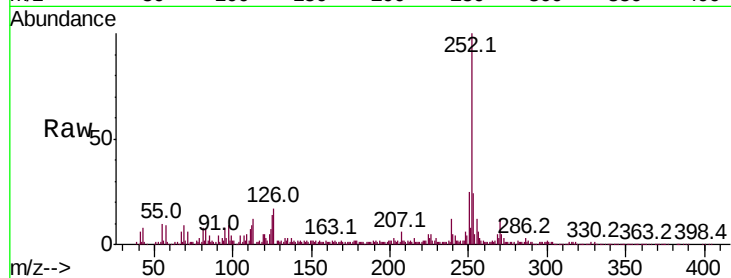




#89
Benzo(k)fluoranthene
Concen: 22.947 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.02 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

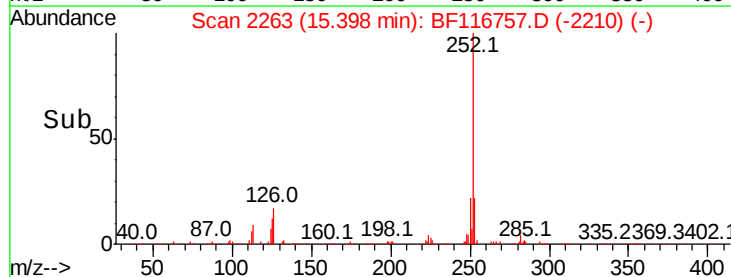
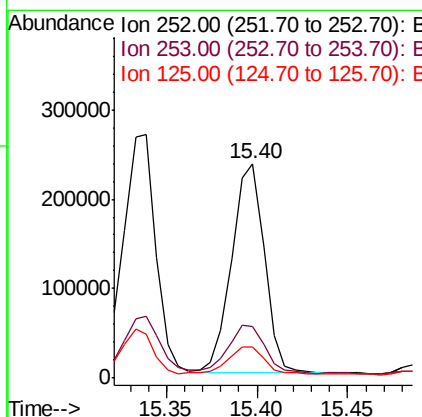
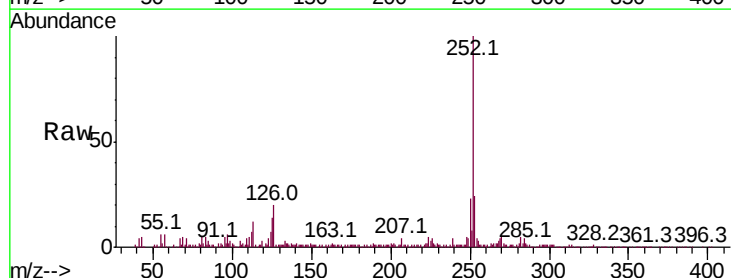
Instrument :
BNA_F
ClientSampleId :

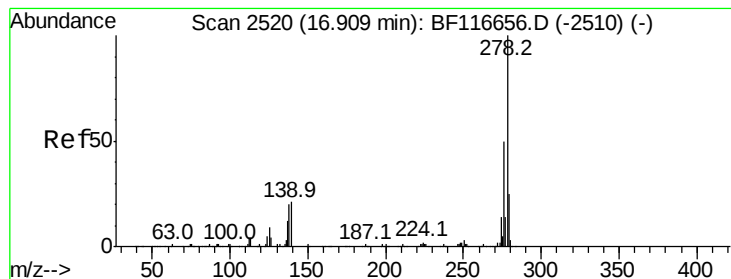
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.7	26.5
125	13.8	8.6	13.0



#90
Benzo(a)pyrene
Concen: 30.355 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.1	27.1
125	14.4	9.8	14.8





#91

Dibenzo(a,h)anthracene

Concen: 10.503 ng

RT: 16.92 min Scan# 2521

Delta R.T. 0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

ClientSampleId :

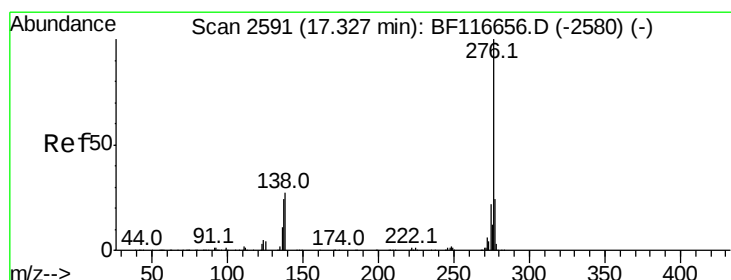
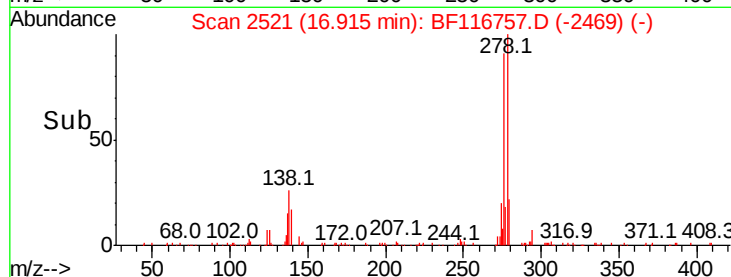
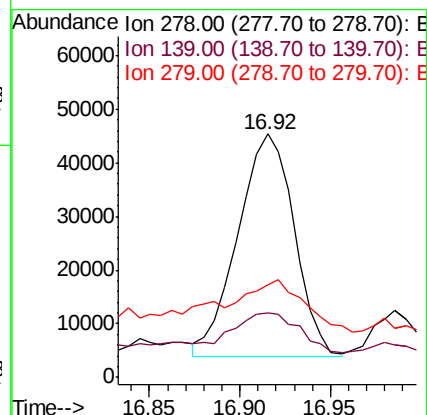
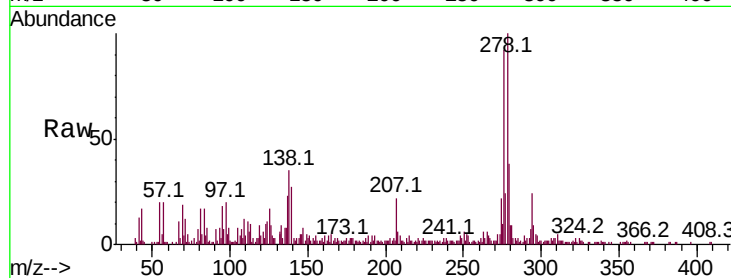
Tot Ion:278 Resp: 89819

Ion Ratio Lower Upper

278 100

139 26.7 12.4 18.6#

279 38.2 18.2 27.4#



#92

Benzo(g,h,i)perylene

Concen: 22.924 ng

RT: 17.35 min Scan# 2595

Delta R.T. 0.02 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Tgt Ion:276 Resp: 199927

Ion Ratio Lower Upper

276 100

277 24.4 18.5 27.7

138 27.7 16.2 24.2#

