

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101019\
 Data File : BF117366.D
 Acq On : 10 Oct 2019 18:02
 Operator : JU
 Sample : K5297-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Oct 11 06:42:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 09 01:26:00 2019
 Response via : Initial Calibration

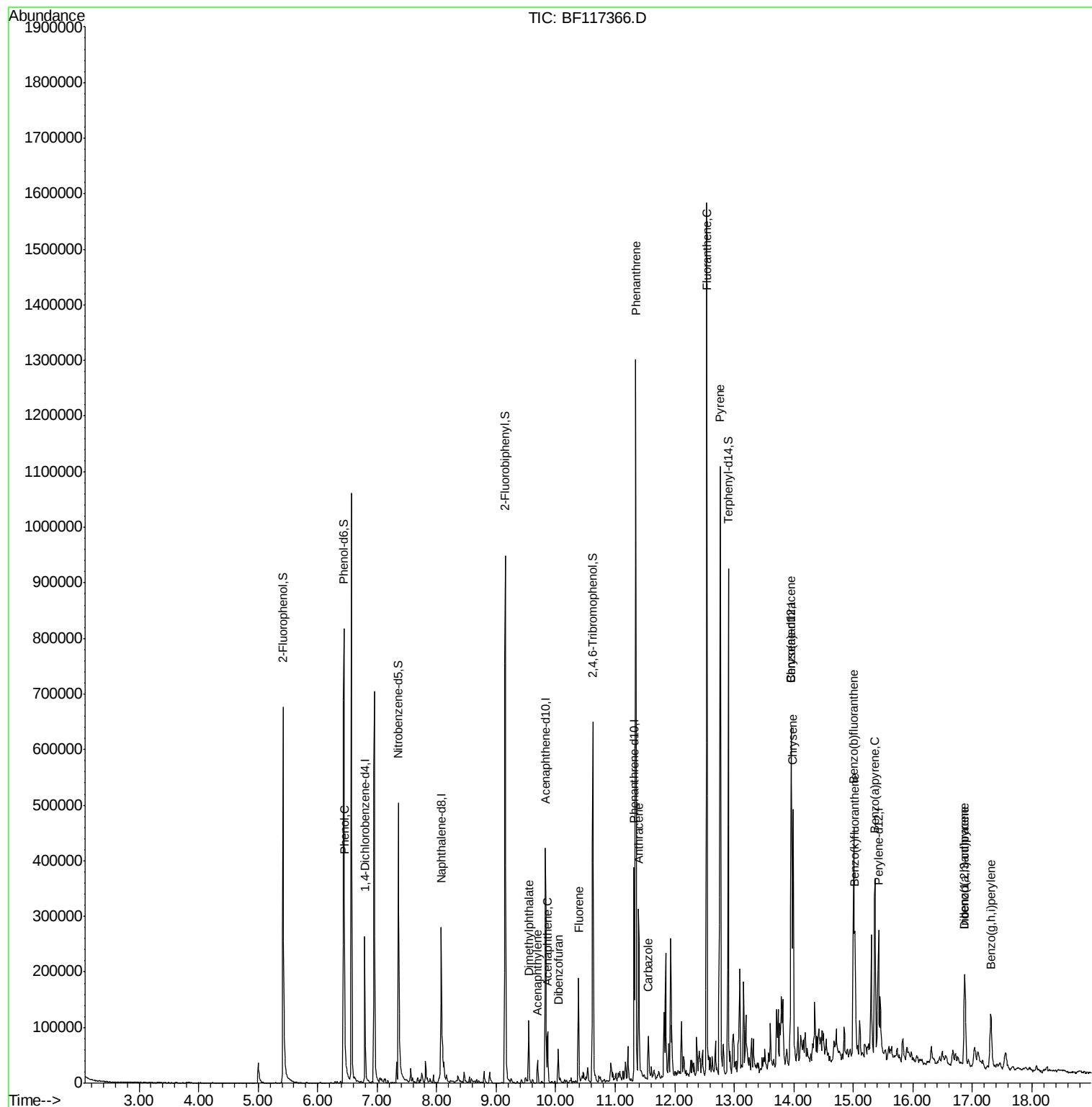
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	42575	20.00	ng	-0.01
21) Naphthalene-d8	8.07	136	171987	20.00	ng	-0.01
39) Acenaphthene-d10	9.83	164	89661	20.00	ng	-0.01
64) Phenanthrene-d10	11.32	188	143312	20.00	ng	-0.01
76) Chrysene-d12	13.96	240	86808	20.00	ng	-0.01
87) Perylene-d12	15.42	264	97052	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	256160	93.94	ng	-0.01
7) Phenol-d6	6.44	99	345439	98.02	ng	-0.01
23) Nitrobenzene-d5	7.36	82	211593	64.64	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	68508	91.42	ng	-0.01
45) 2-Fluorobiphenyl	9.15	172	328856	57.35	ng	-0.01
79) Terphenyl-d14	12.90	244	263655	56.77	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.45	94	15540	4.000	ng	94
49) Acenaphthylene	9.69	152	20319	2.444	ng	98
50) Dimethylphthalate	9.55	163	48643	7.662	ng	98
52) Acenaphthene	9.86	154	22051	4.474	ng	87
55) Dibenzofuran	10.04	168	28193	3.877	ng	98
58) Fluorene	10.38	166	59753	10.200	ng	99
71) Phenanthrene	11.35	178	451096	55.417	ng	99
72) Anthracene	11.39	178	139222	16.753	ng	97
73) Carbazole	11.56	167	33436	4.239	ng	99
75) Fluoranthene	12.54	202	649351	77.637	ng	99
78) Pyrene	12.77	202	503713	69.155	ng	99
81) Benzo(a)anthracene	13.95	228	216519	37.332	ng	96
83) Chrysene	13.99	228	184365	32.593	ng	97
86) Indeno(1,2,3-cd)pyrene	16.87	276	93473	22.650	ng	97
88) Benzo(b)fluoranthene	15.00	252	215464m	36.651	ng	
89) Benzo(k)fluoranthene	15.02	252	79858m	14.340	ng	
90) Benzo(a)pyrene	15.36	252	147325	28.558	ng	96
91) Dibenzo(a,h)anthracene	16.87	278	25967m	6.319	ng	
92) Benzo(a,h,i)perylene	17.31	276	82024	20.029	ng	96

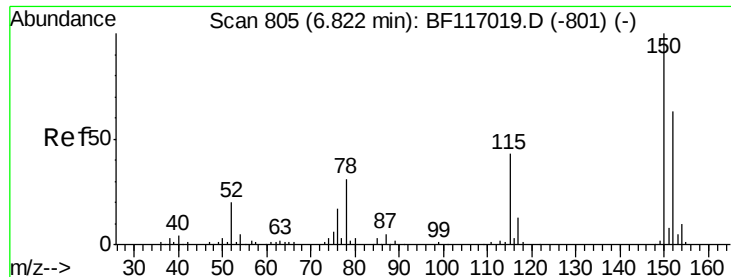
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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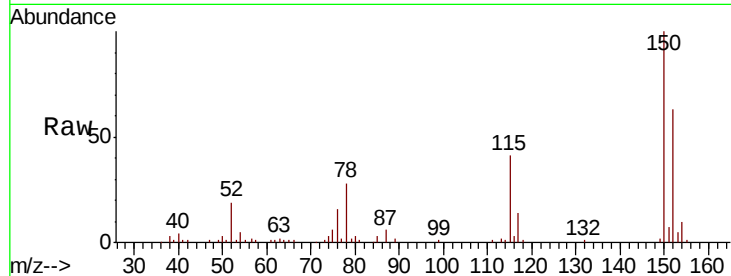


#1

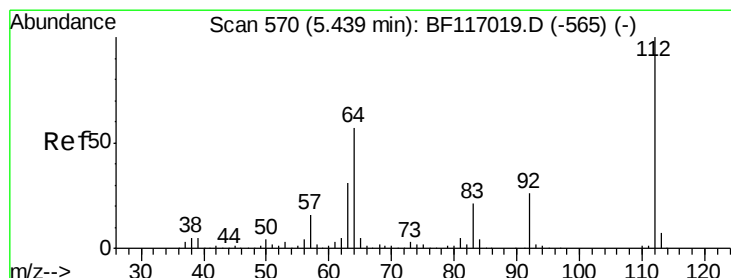
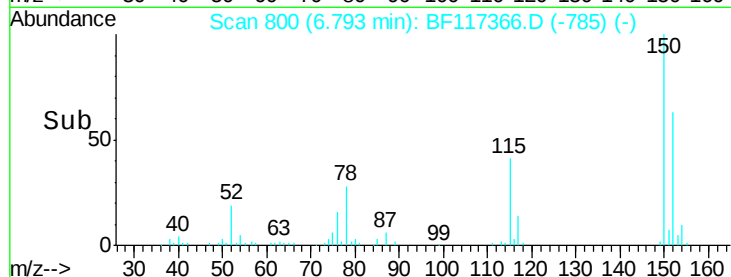
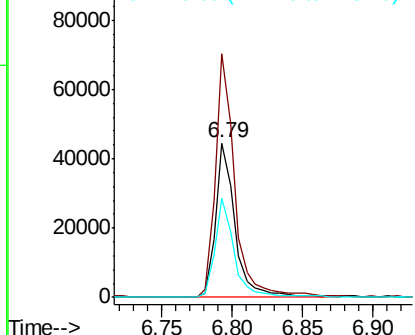
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

Instrument :
BNA_F
ClientSampled :
TP-2

Tot Ion:152 Resp: 42575
Ion Ratio Lower Upper
152 100
150 158.0 127.5 191.3
115 64.0 55.0 82.4



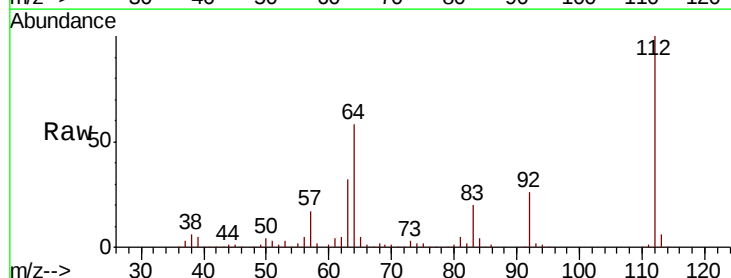
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



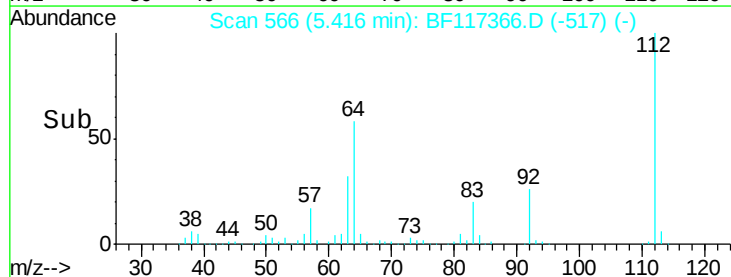
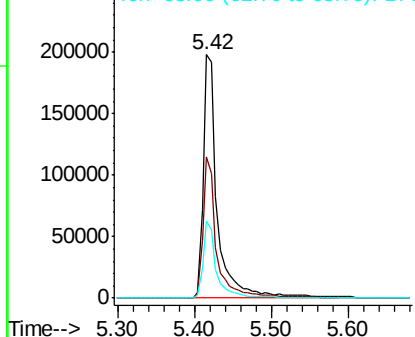
#5

2-Fluorophenol
Concen: 93.935 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

Tgt Ion:112 Resp: 256160
Ion Ratio Lower Upper
112 100
64 58.2 45.7 68.5
63 31.6 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: 98.018 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

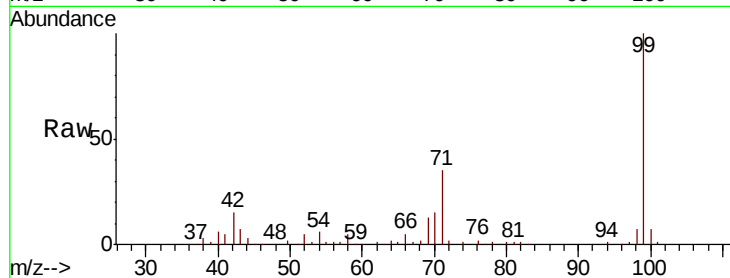
Tot Ion: 99 Resp: 345439

Ion Ratio Lower Upper

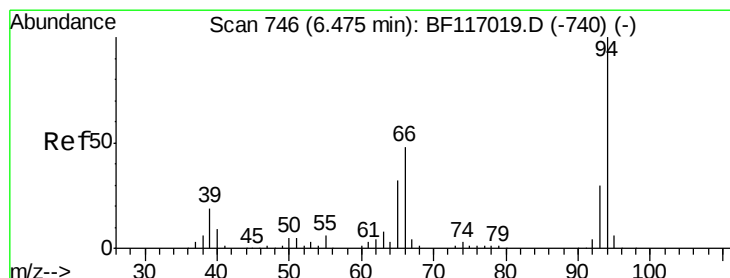
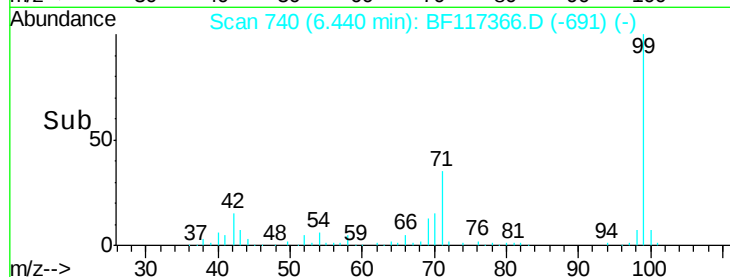
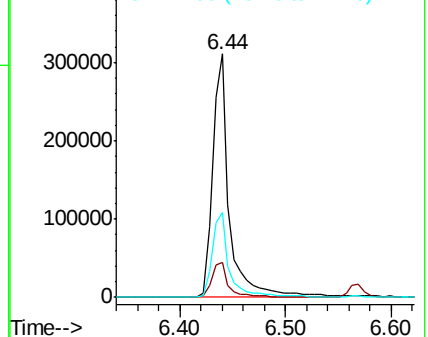
99 100

42 14.5 12.2 18.2

71 34.9 29.8 44.8



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: 4.000 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

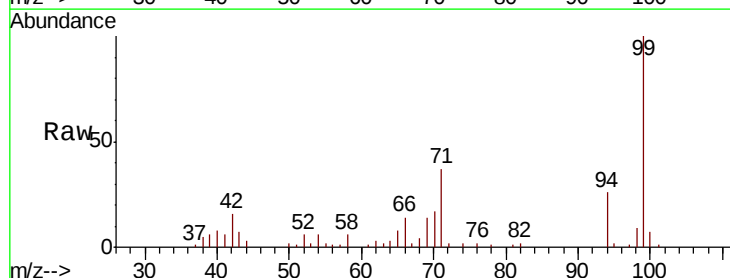
Tgt Ion: 94 Resp: 15540

Ion Ratio Lower Upper

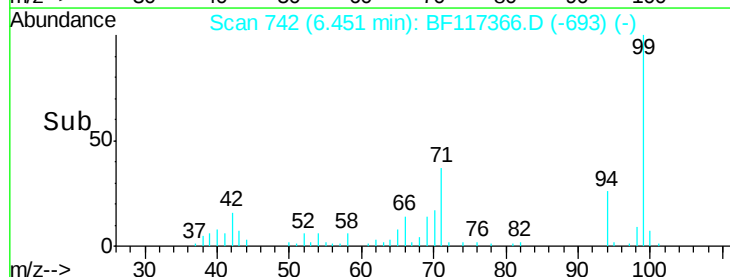
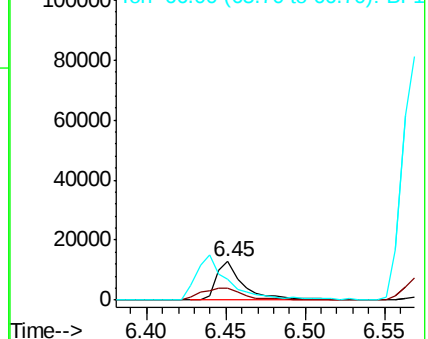
94 100

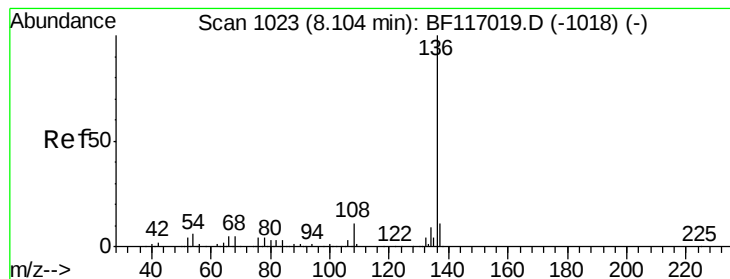
65 30.4 12.5 52.5

66 53.6 28.9 68.9



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





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

Tot Ion:136 Resp: 171987

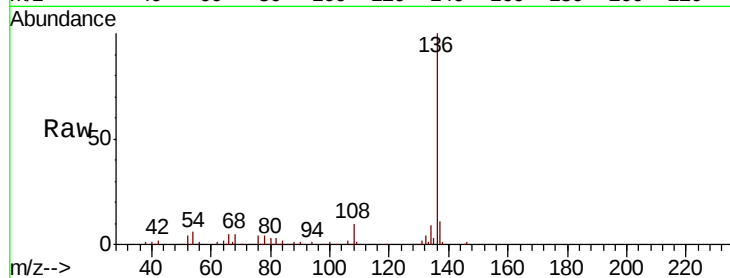
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 6.1 4.5 6.7

68 5.3 4.0 6.0

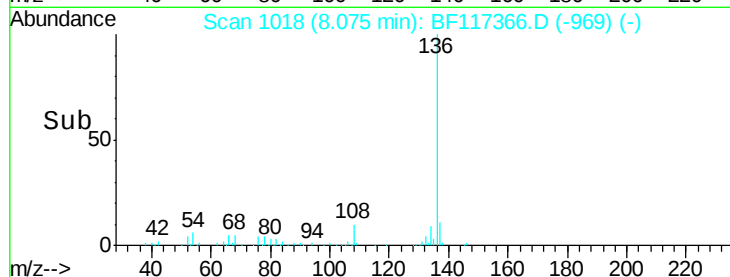


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

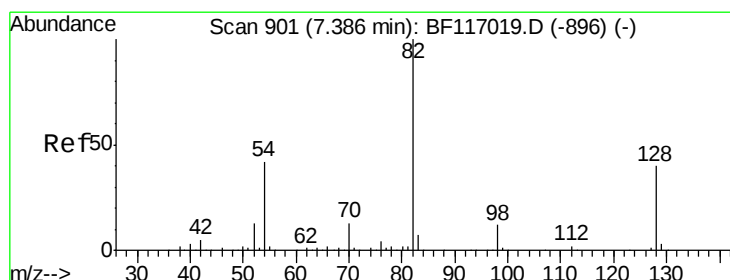
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->

8.07



#23

Nitrobenzene-d5

Concen: 64.642 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

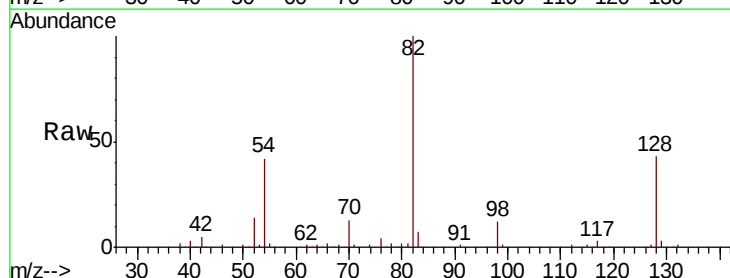
Tgt Ion: 82 Resp: 211593

Ion Ratio Lower Upper

82 100

128 42.5 32.3 48.5

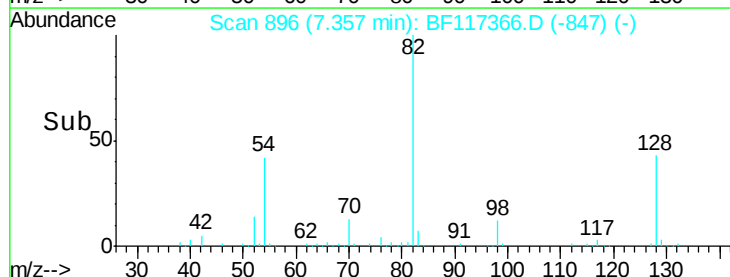
54 42.4 33.3 49.9



Abundance Ion 82.00 (81.70 to 82.70): BF1

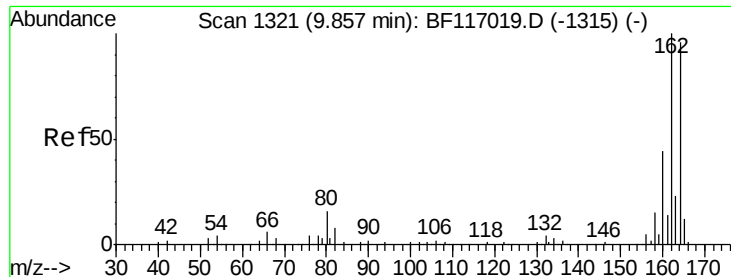
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



Time-->

7.36



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

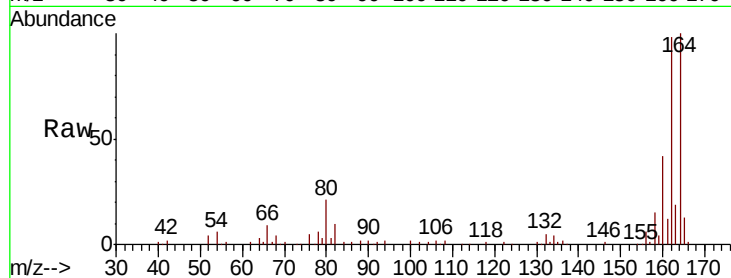
Tot Ion:164 Resp: 89661

Ion Ratio Lower Upper

164 100

162 97.7 83.4 125.2

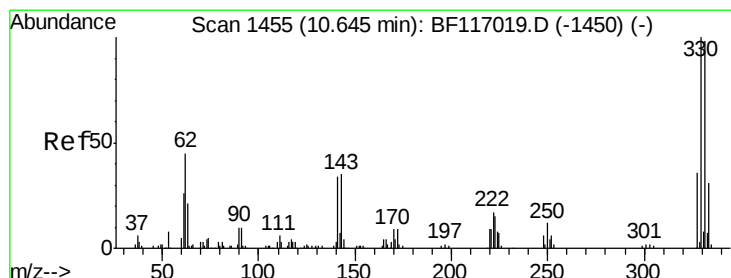
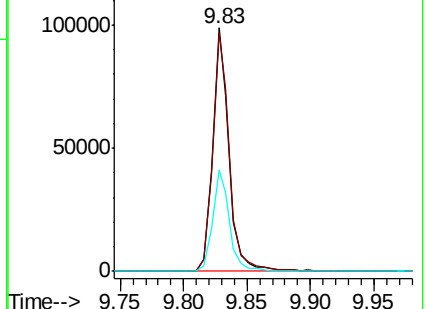
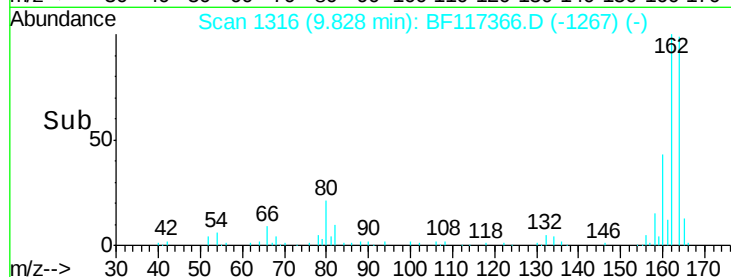
160 41.8 36.4 54.6



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: 91.422 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

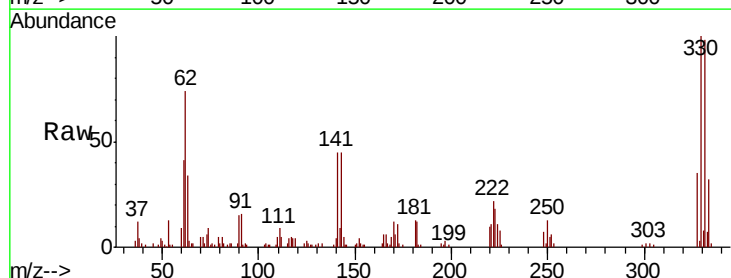
Tgt Ion:330 Resp: 68508

Ion Ratio Lower Upper

330 100

332 98.7 78.0 117.0

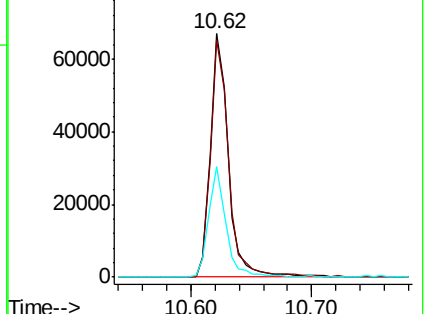
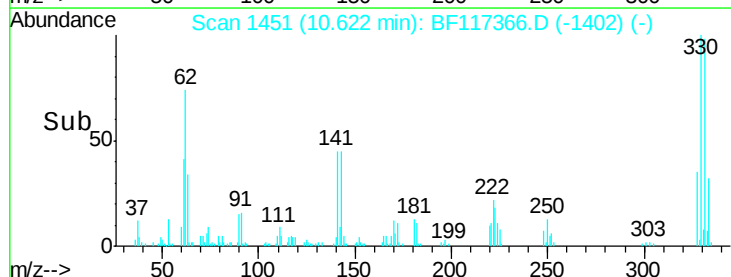
141 44.3 35.8 53.6

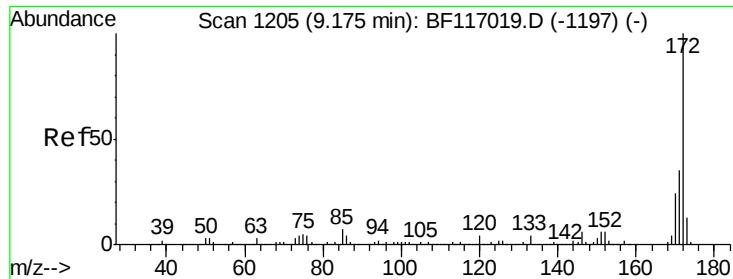


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

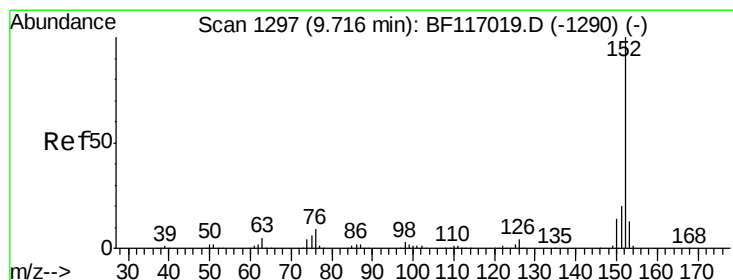
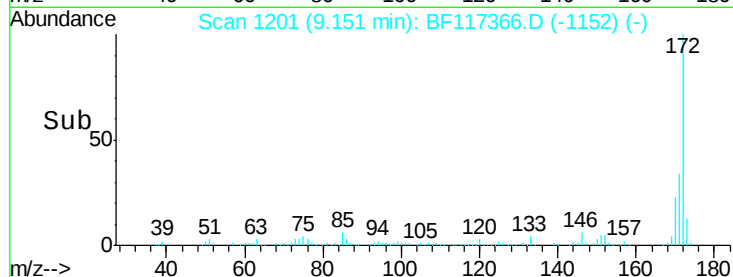
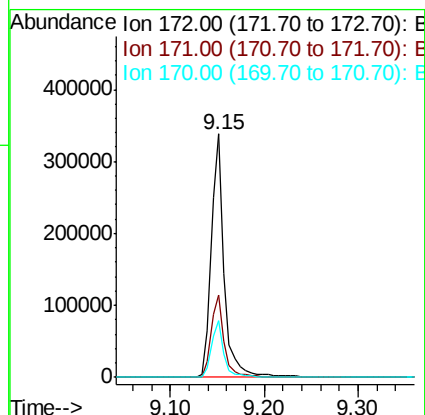
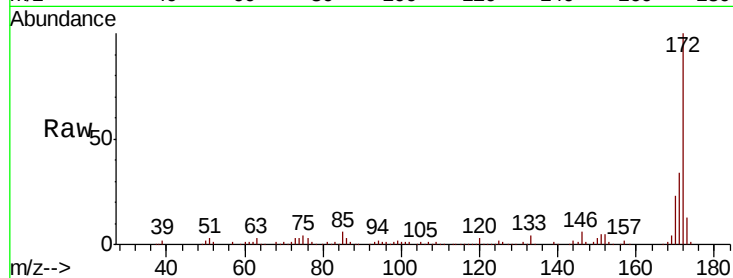




#45
 2-Fluorobiphenyl
 Concen: 57.348 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

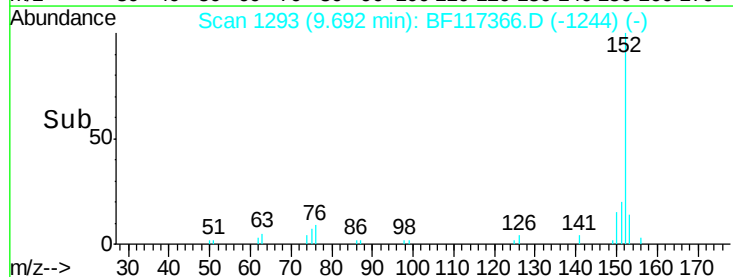
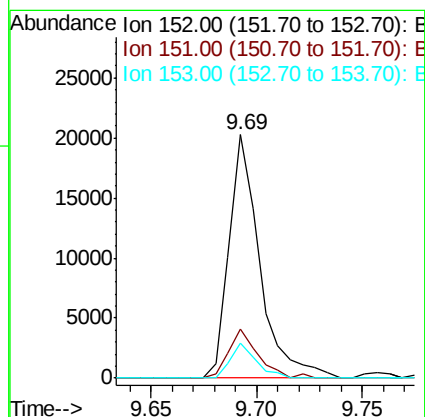
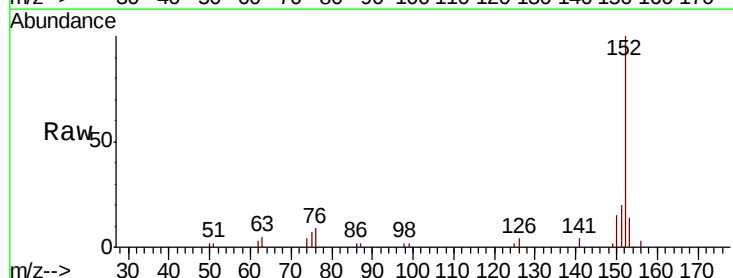
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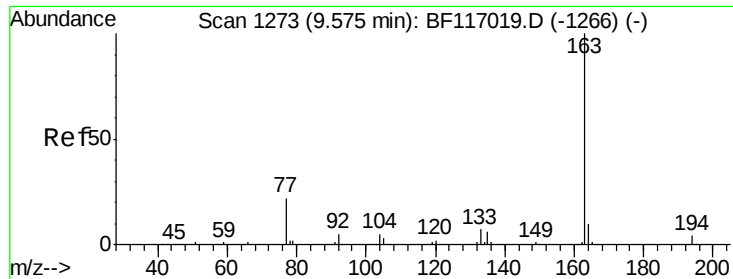
Tot Ion:172 Resp: 328856
 Ion Ratio Lower Upper
 172 100
 171 33.8 28.2 42.2
 170 23.4 18.9 28.3



#49
 Acenaphthylene
 Concen: 2.444 ng
 RT: 9.69 min Scan# 1293
 Delta R.T. -0.01 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

Tgt Ion:152 Resp: 20319
 Ion Ratio Lower Upper
 152 100
 151 19.9 16.2 24.2
 153 14.3 10.2 15.4

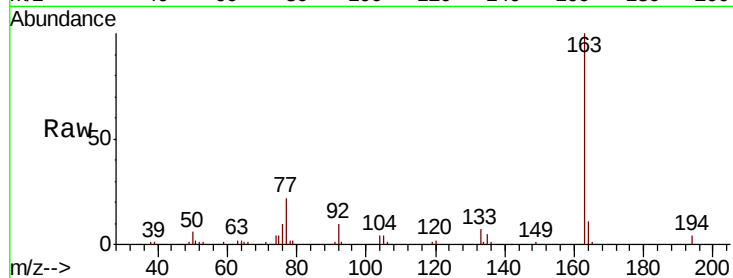




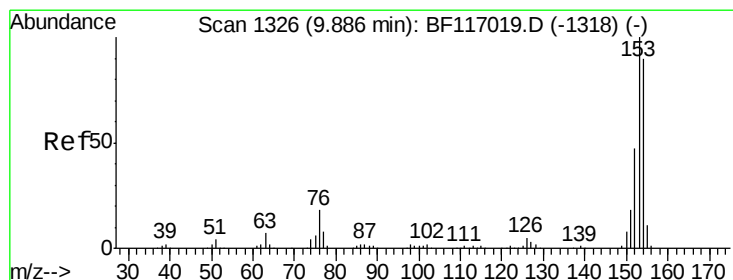
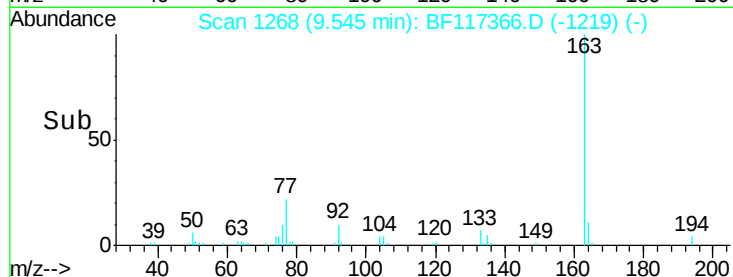
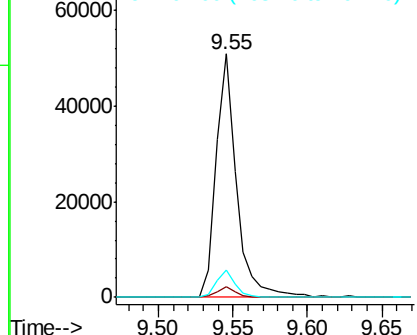
#50
Dimethylphthalate
Concen: 7.662 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

Instrument :
BNA_F
ClientSampleId :
TP-2

Tot Ion:163 Resp: 48643
Ion Ratio Lower Upper
163 100
194 4.3 2.9 4.3
164 11.1 8.2 12.4

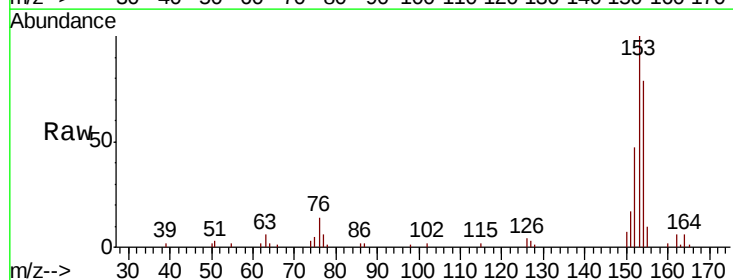


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

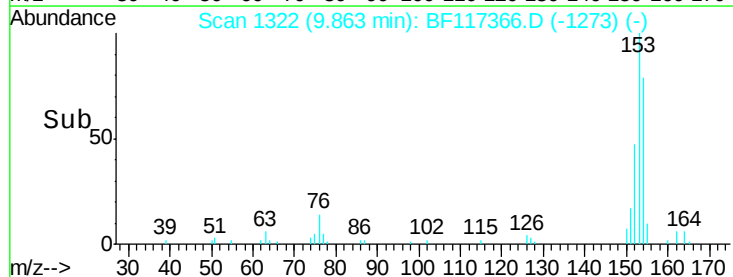
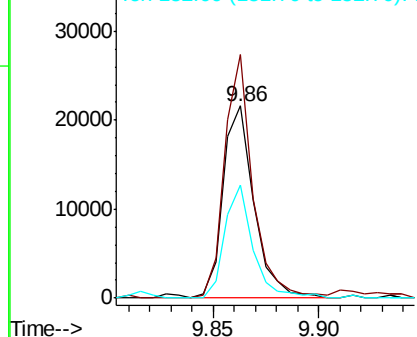


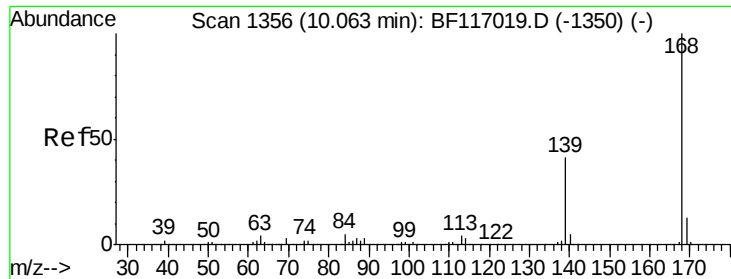
#52
Acenaphthene
Concen: 4.474 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

Tgt Ion:154 Resp: 22051
Ion Ratio Lower Upper
154 100
153 126.6 89.0 133.6
152 59.0 41.9 62.9



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

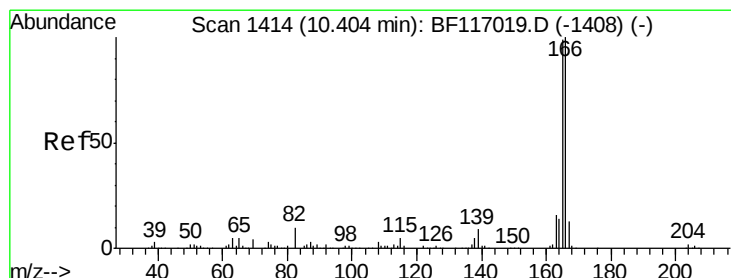
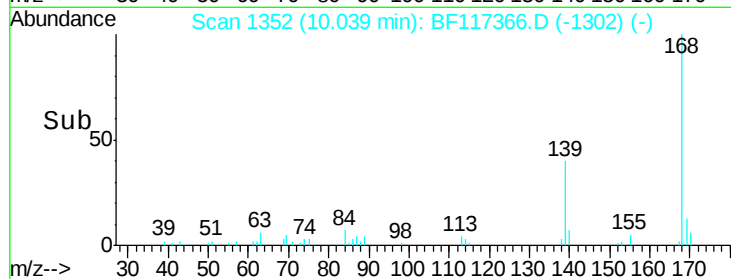
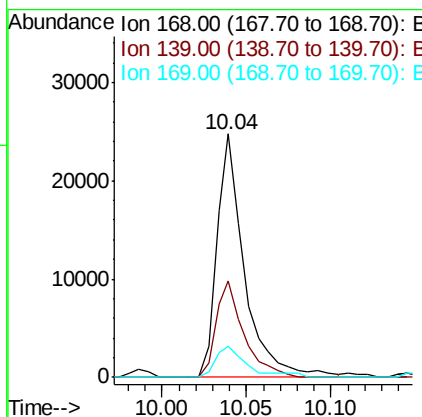
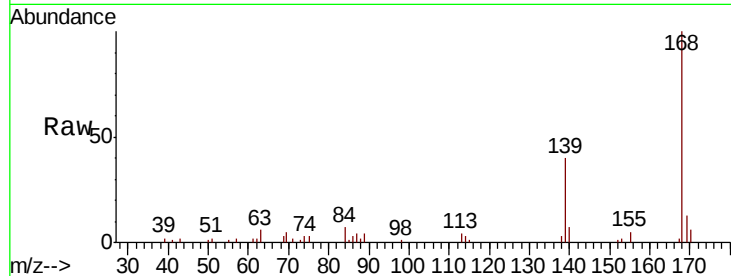




#55
Dibenzenofuran
Concen: 3.877 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

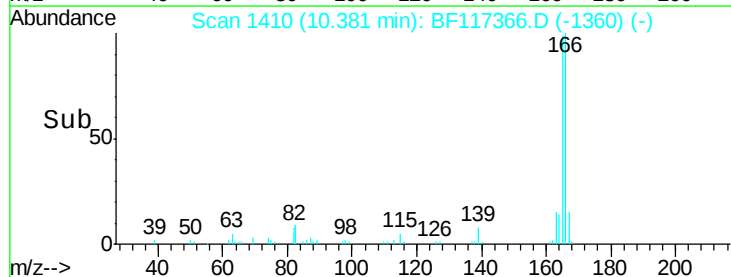
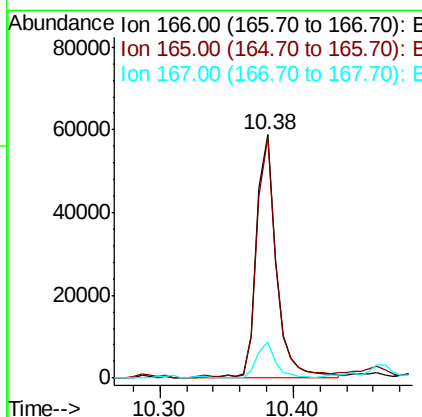
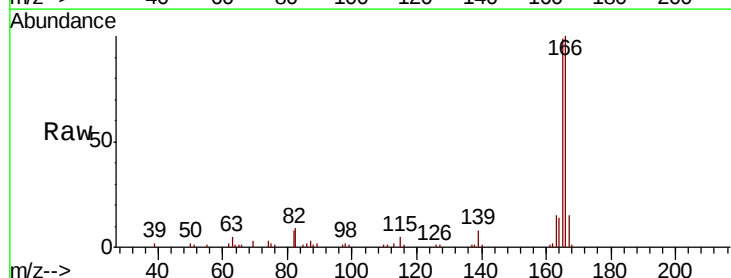
Instrument :
BNA_F
ClientSampleId :
TP-2

Tot Ion:168 Resp: 28193
Ion Ratio Lower Upper
168 100
139 39.5 32.8 49.2
169 12.9 10.5 15.7



#58
Fluorene
Concen: 10.200 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

Tgt Ion:166 Resp: 59753
Ion Ratio Lower Upper
166 100
165 98.8 78.9 118.3
167 14.7 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

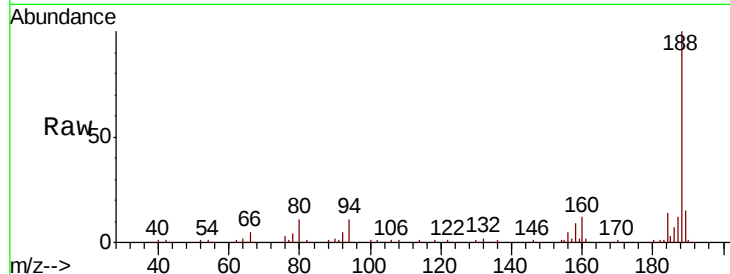
Tot Ion:188 Resp: 143312

Ion Ratio Lower Upper

188 100

94 10.6 8.2 12.2

80 11.2 9.0 13.6



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

200000

150000

100000

50000

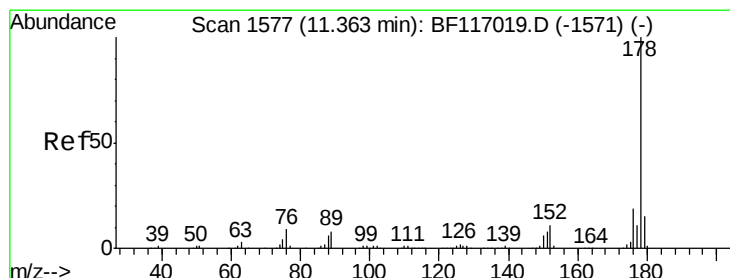
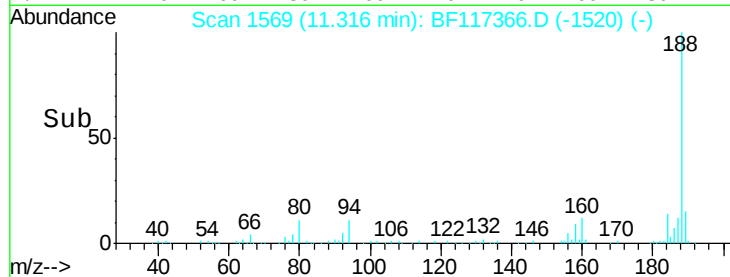
0

11.32

11.30

11.35

Time-->



#71

Phenanthrene

Concen: 55.417 ng

RT: 11.35 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

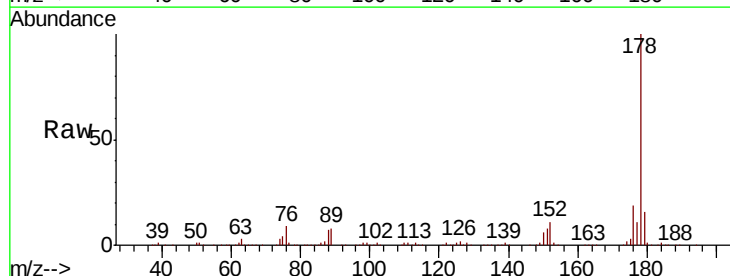
Tgt Ion:178 Resp: 451096

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.7 12.4 18.6



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

600000

400000

200000

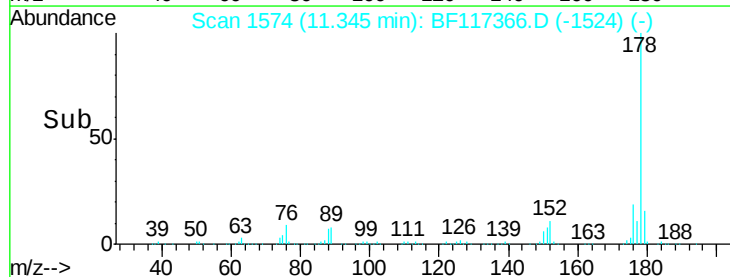
0

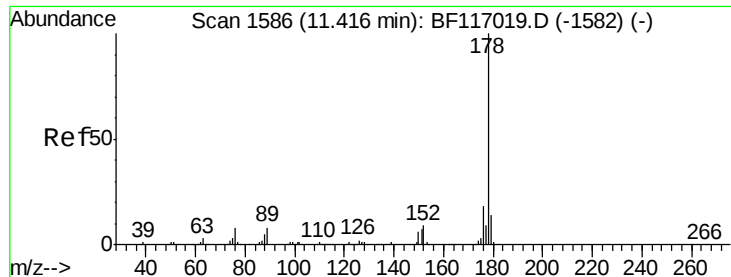
11.35

11.30

11.35

Time-->

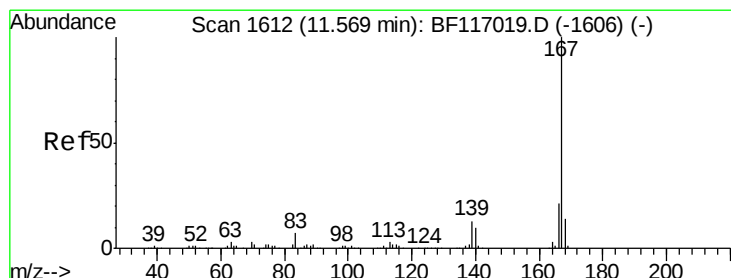
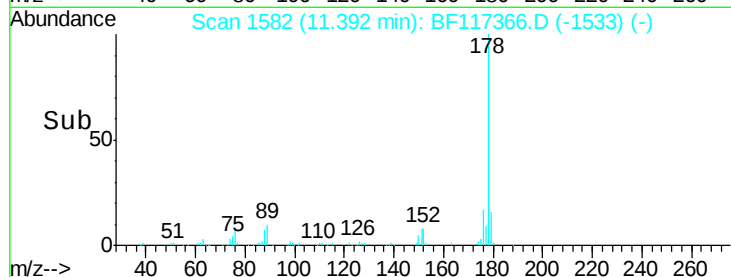
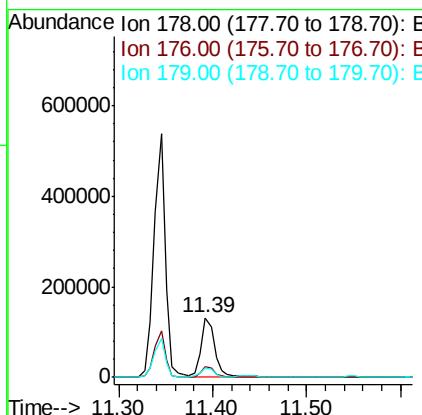
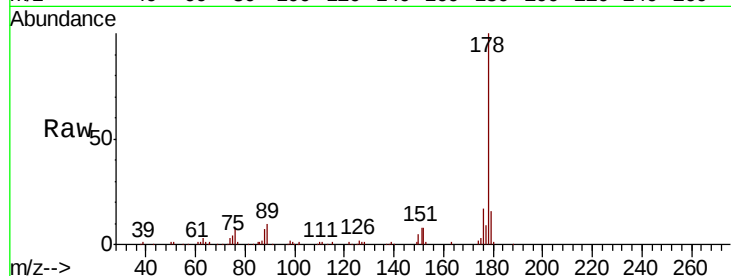




#72
 Anthracene
 Concen: 16.753 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

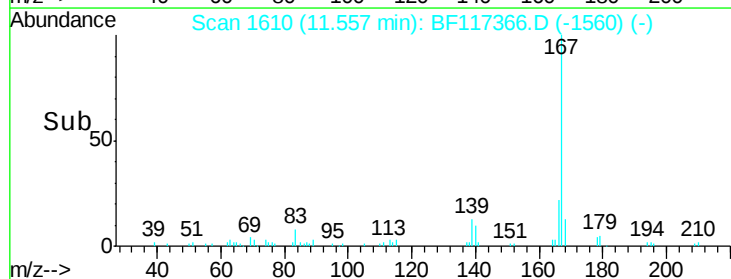
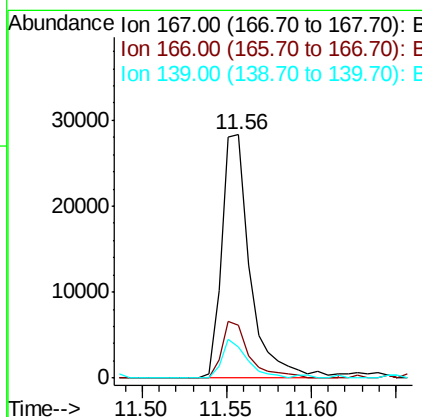
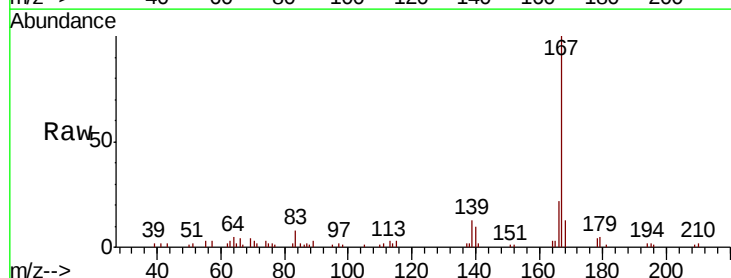
Instrument :
 BNA_F
 ClientSampleId :
 TP-2

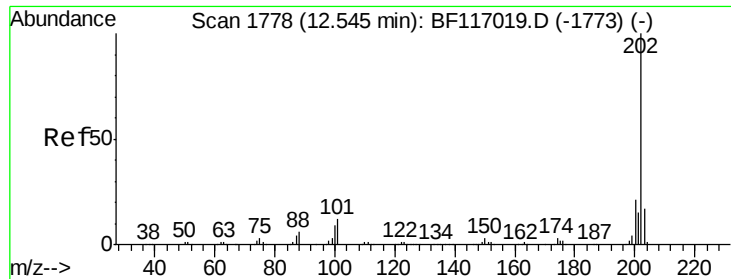
Tot Ion:178 Resp: 139222
 Ion Ratio Lower Upper
 178 100
 176 16.8 14.6 21.8
 179 15.7 11.6 17.4



#73
 Carbazole
 Concen: 4.239 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

Tgt Ion:167 Resp: 33436
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.2 25.8
 139 13.0 10.6 16.0

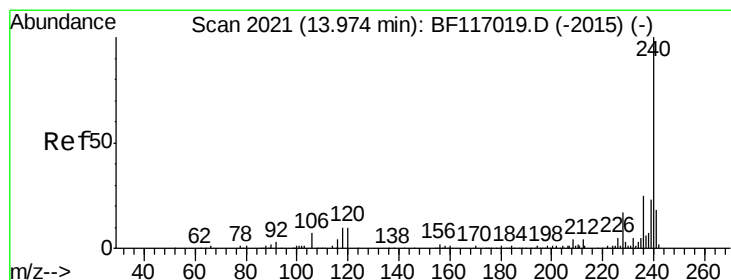
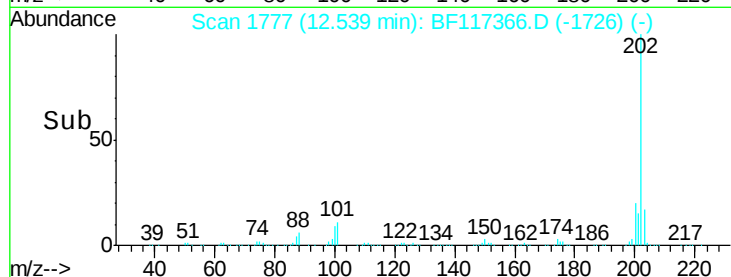
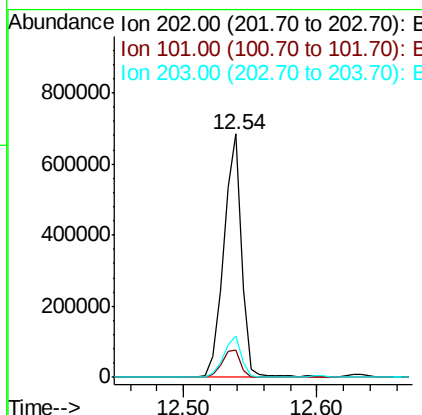
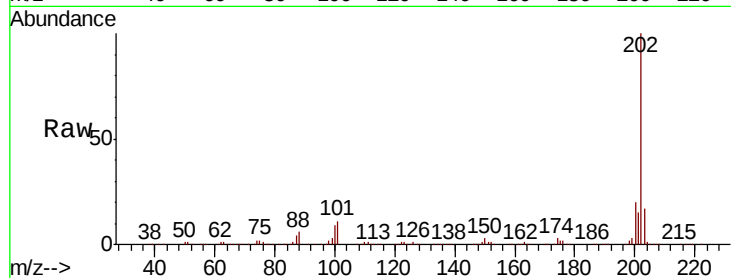




#75
Fluoranthene
Concen: 77.637 ng
RT: 12.54 min Scan# 1777
Delta R.T. 0.00 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

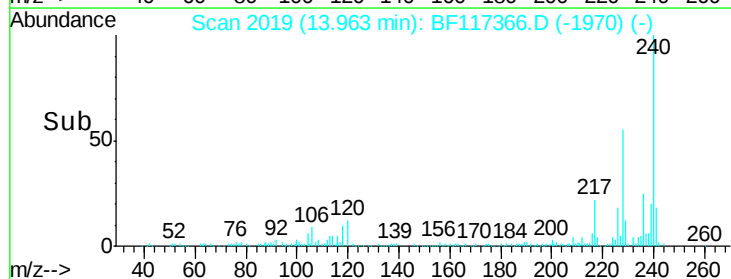
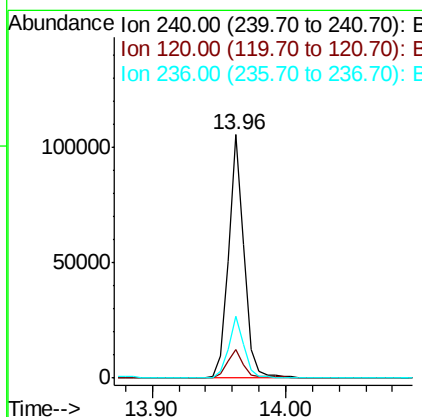
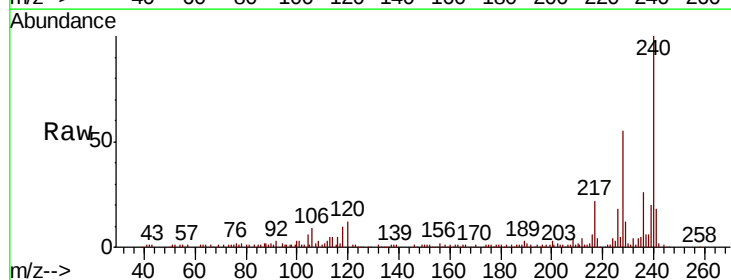
Instrument :
BNA_F
ClientSampled :
TP-2

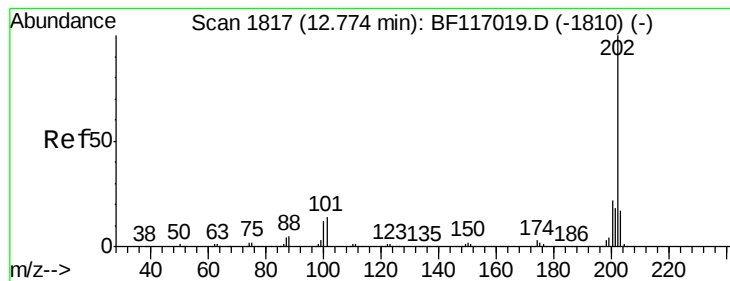
Tot Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	32.3
203	16.9	0.0	37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF117366.D
Acq: 10 Oct 2019 18:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.0	8.3	12.5
236	25.5	20.3	30.5





#78

Pvrene

Concen: 69.155 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

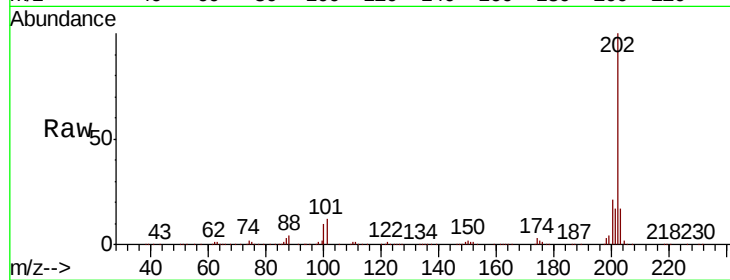
Tot Ion:202 Resp: 503713

Ion Ratio Lower Upper

202 100

200 20.7 17.2 25.8

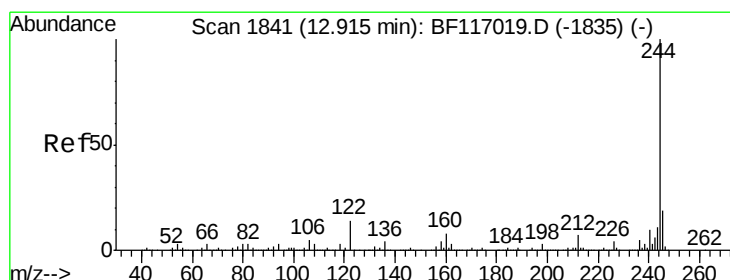
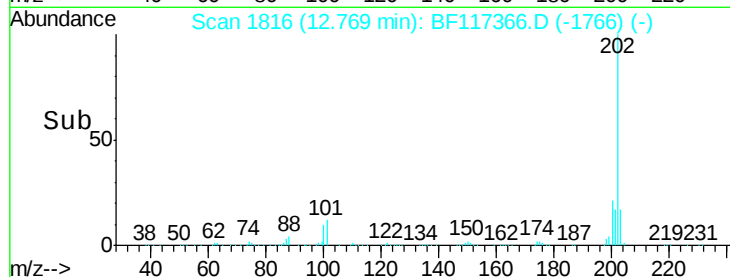
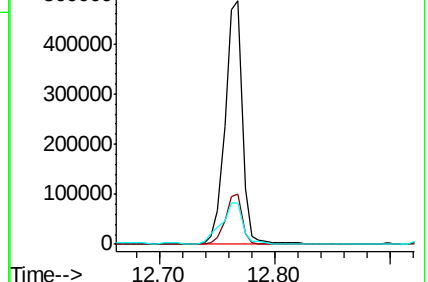
203 17.1 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 56.772 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

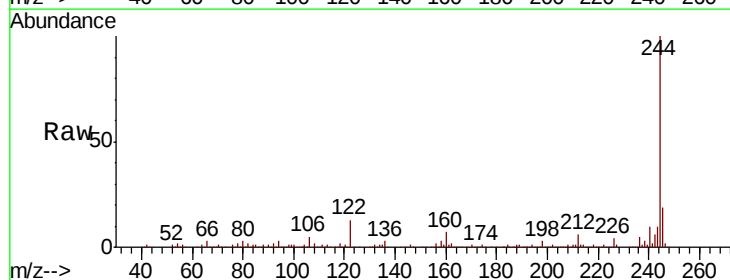
Tgt Ion:244 Resp: 263655

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.8

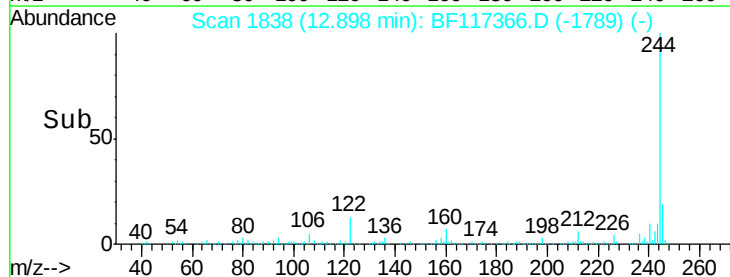
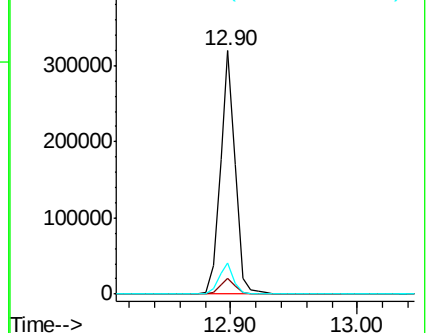
122 12.7 11.3 16.9

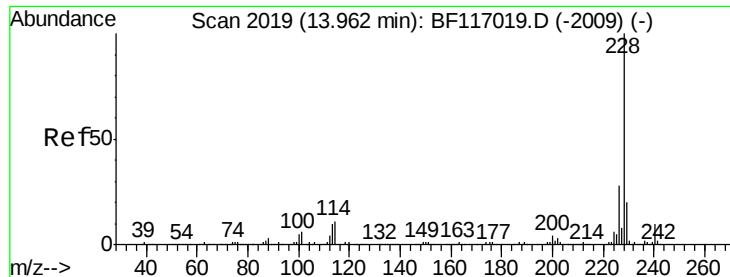


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 37.332 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

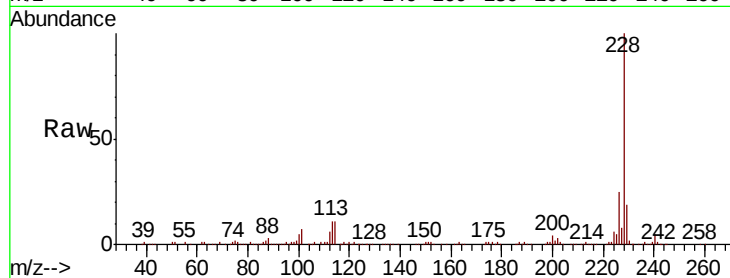
Tot Ion:228 Resp: 216519

Ion Ratio Lower Upper

228 100

226 24.6 22.3 33.5

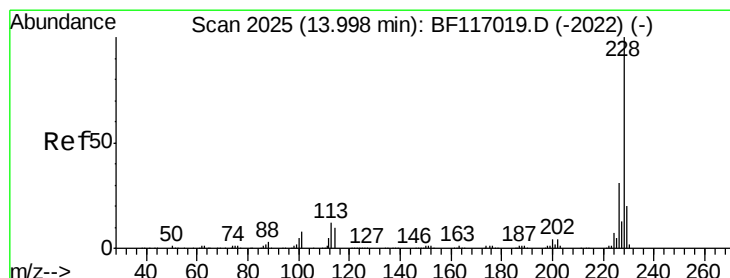
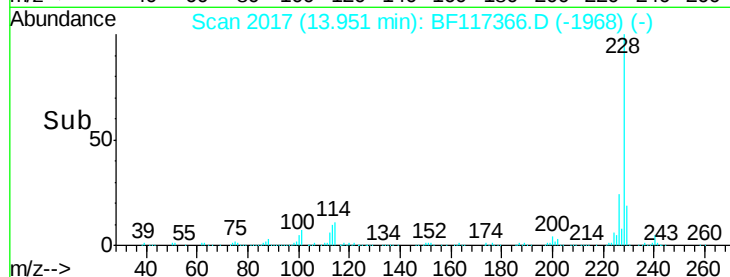
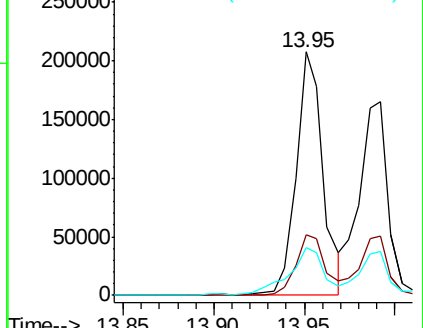
229 19.5 15.9 23.9



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: 32.593 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

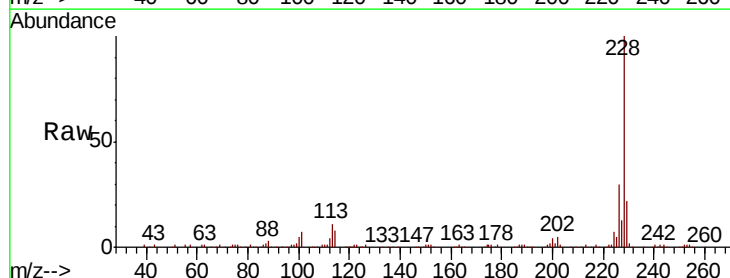
Tgt Ion:228 Resp: 184365

Ion Ratio Lower Upper

228 100

226 30.5 24.8 37.2

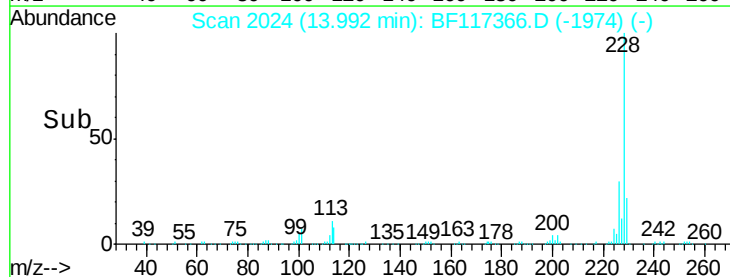
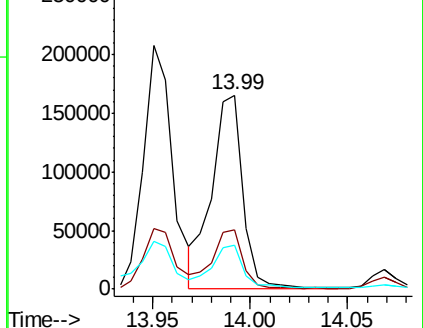
229 22.4 15.8 23.8

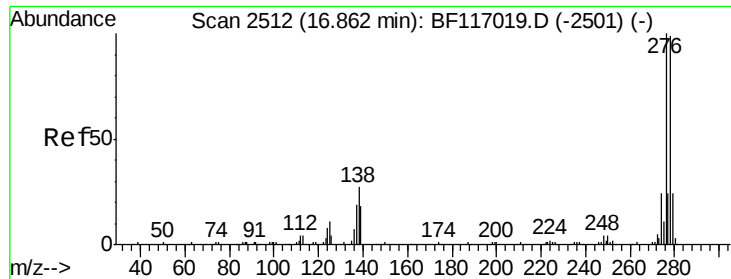


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

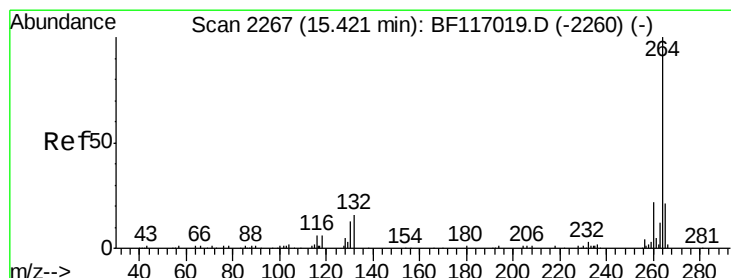
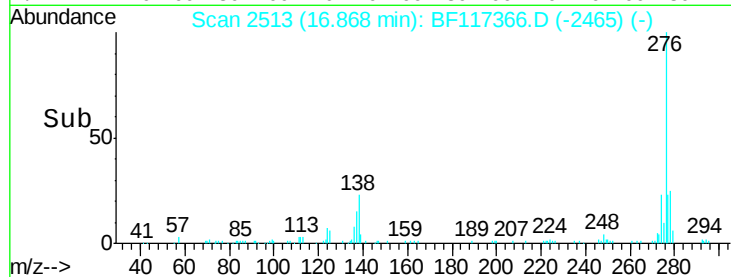
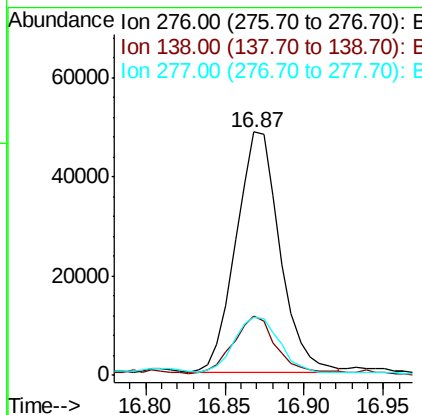
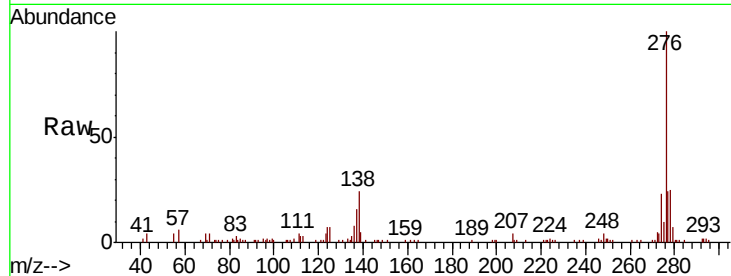




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 22.650 ng
 RT: 16.87 min Scan# 2513
 Delta R.T. -0.02 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

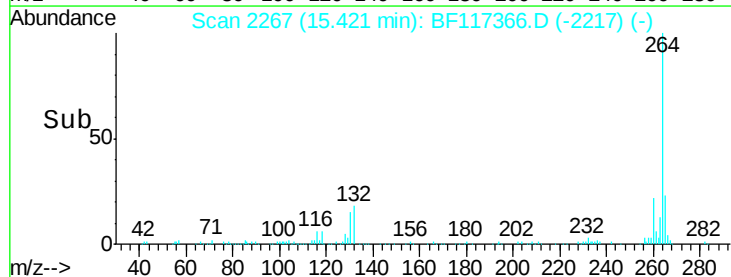
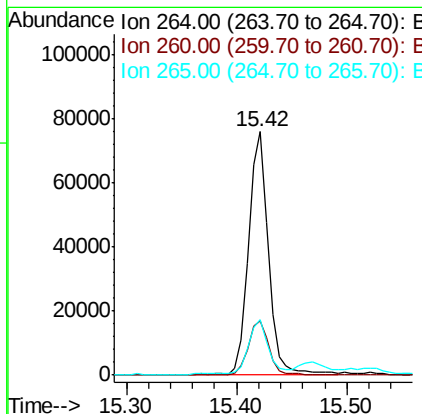
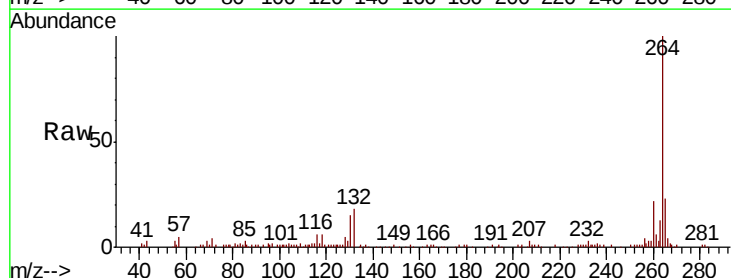
Instrument :
 BNA_F
 ClientSampleId :
 TP-2

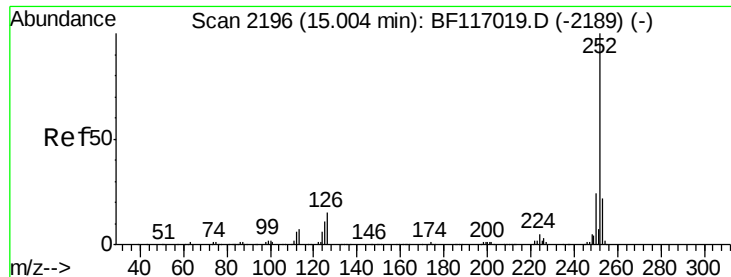
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.3	20.7	31.1
277	23.5	19.8	29.8



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2267
 Delta R.T. -0.01 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.1	17.6	26.4
265	22.8	16.6	24.8





#88

Benzo(b)fluoranthene

Concen: 36.651 ng m

RT: 15.00 min Scan# 2196

Delta R.T. 0.00 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

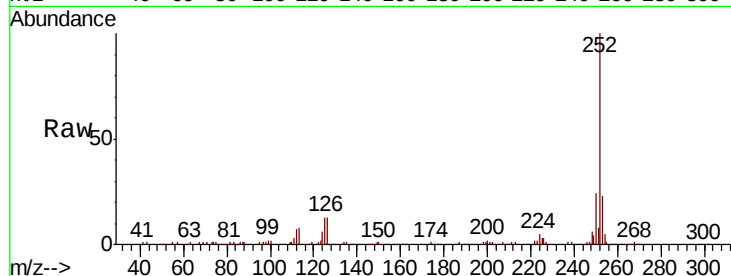
Tot Ion:252 Resp: 215464

Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

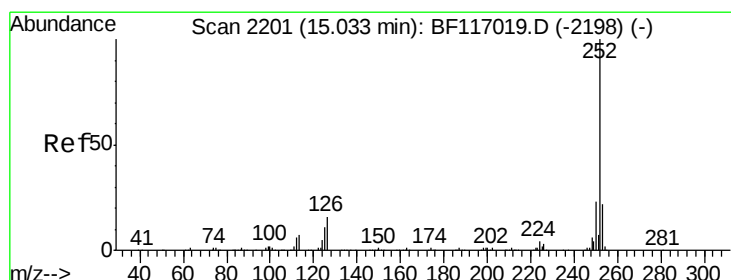
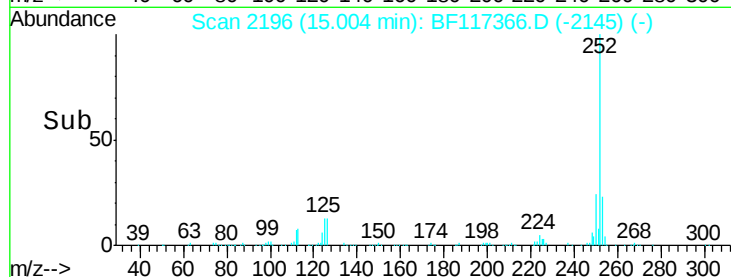
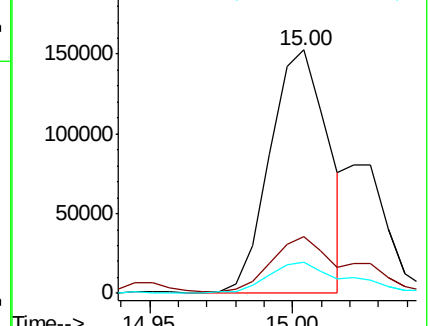
125 12.9 8.6 12.8#



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



#89

Benzo(k)fluoranthene

Concen: 14.340 ng m

RT: 15.02 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

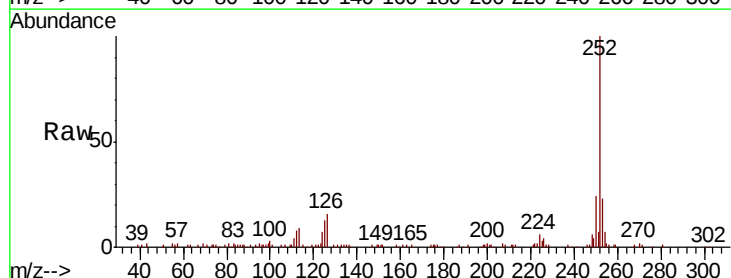
Tgt Ion:252 Resp: 79858

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.2

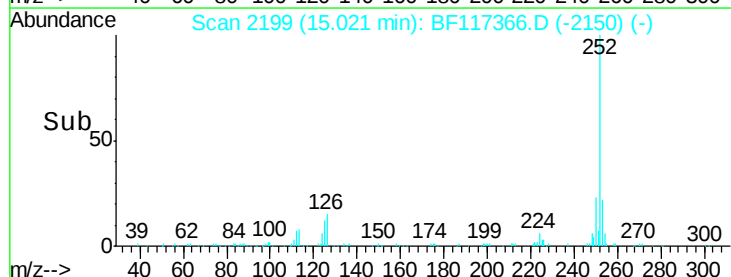
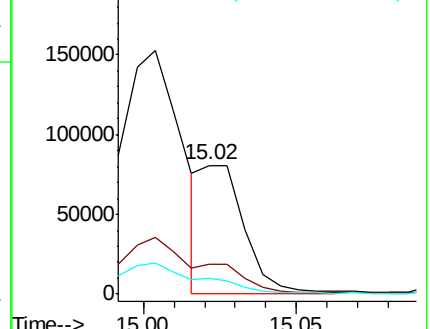
125 12.6 8.8 13.2

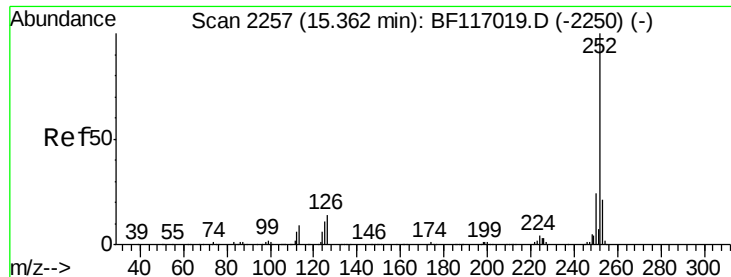


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 28.558 ng

RT: 15.36 min Scan# 2257

Delta R.T. -0.01 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

Instrument :

BNA_F

ClientSampleId :

TP-2

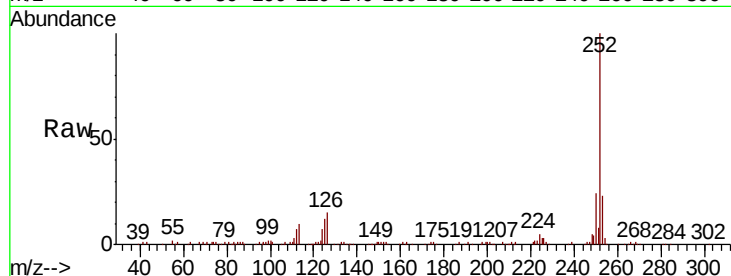
Tot Ion:252 Resp: 147325

Ion Ratio Lower Upper

252 100

253 23.3 16.6 25.0

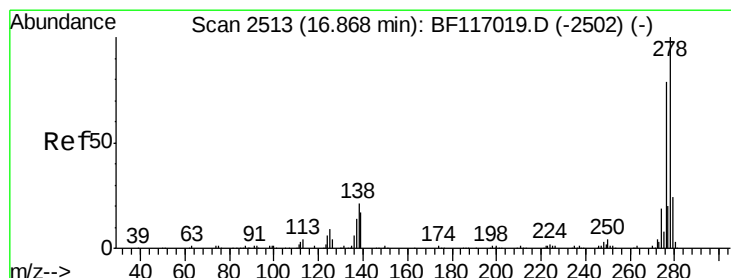
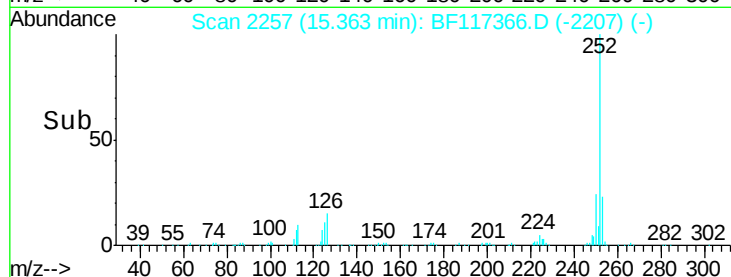
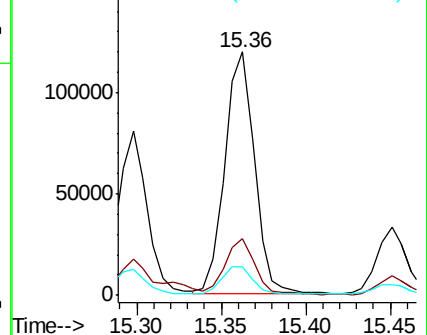
125 11.8 8.9 13.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 6.319 ng m

RT: 16.87 min Scan# 2513

Delta R.T. -0.02 min

Lab File: BF117366.D

Acq: 10 Oct 2019 18:02

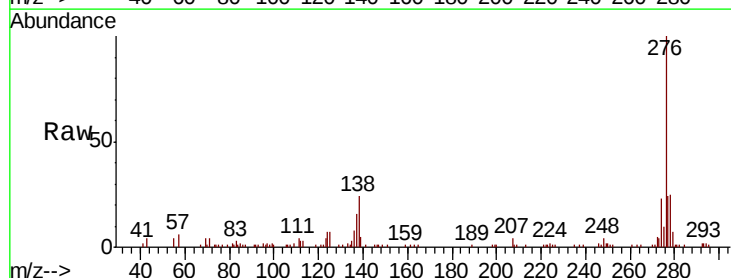
Tgt Ion:278 Resp: 25967

Ion Ratio Lower Upper

278 100

139 19.9 13.5 20.3

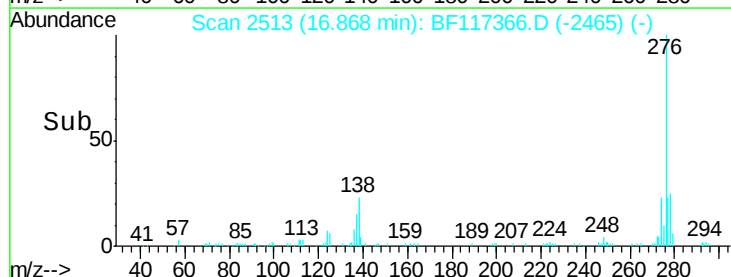
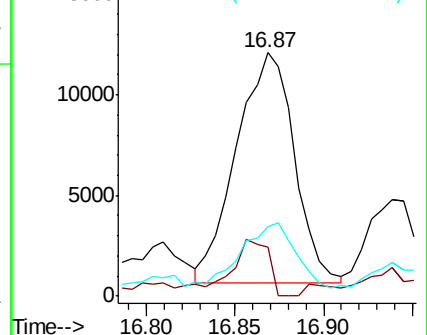
279 28.6 18.8 28.2#

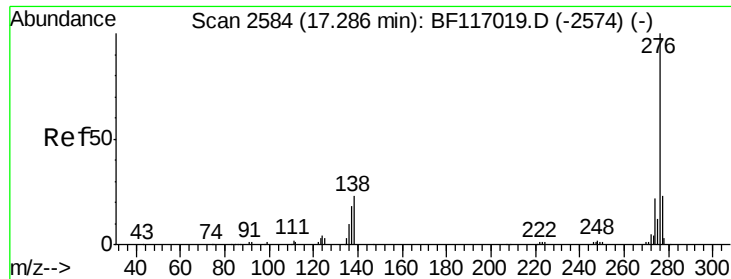


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

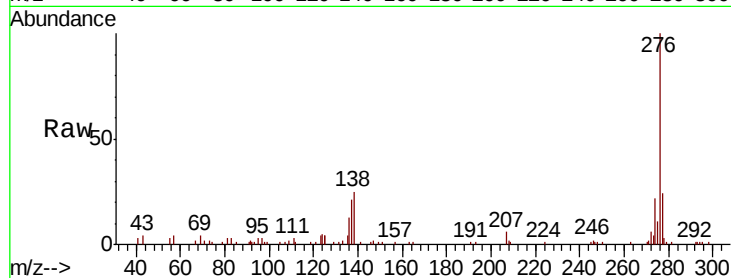




#92
 Benzo(a,h,i)perylene
 Concen: 20.029 ng
 RT: 17.31 min Scan# 2588
 Delta R.T. -0.01 min
 Lab File: BF117366.D
 Acq: 10 Oct 2019 18:02

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tot Ion:276 Resp: 82024
 Ion Ratio Lower Upper
 276 100
 277 24.0 18.6 27.8
 138 25.2 18.0 27.0



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

