

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
 Data File : BM022461.D
 Acq On : 31 Aug 2019 03:26
 Operator : HP/JU
 Sample : K4439-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Aug 31 05:33:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 29 16:51:32 2019
 Response via : Initial Calibration

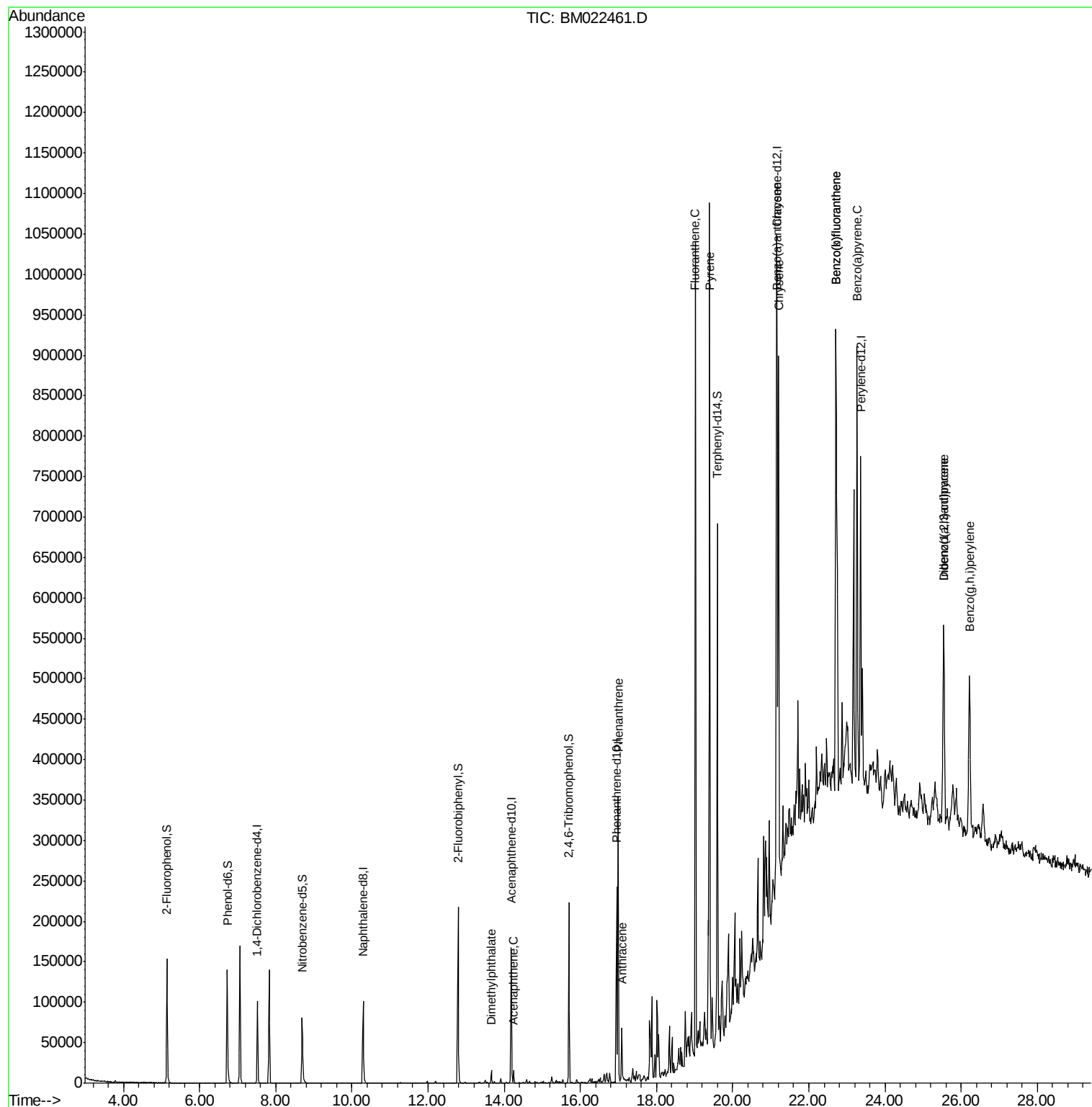
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	22568	20.00	ng	-0.01
21) Naphthalene-d8	10.29	136	80134	20.00	ng	0.00
39) Acenaphthene-d10	14.18	164	50423	20.00	ng	0.00
64) Phenanthrene-d10	16.95	188	122152	20.00	ng	0.00
76) Chrysene-d12	21.17	240	207865	20.00	ng	0.00
87) Perylene-d12	23.36	264	257433	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	56516	43.96	ng	0.00
7) Phenol-d6	6.72	99	69803	40.60	ng	0.00
23) Nitrobenzene-d5	8.69	82	48857	26.70	ng	0.00
42) 2,4,6-Tribromophenol	15.70	330	34912	33.84	ng	0.00
45) 2-Fluorobiphenyl	12.79	172	102492	23.03	ng	0.00
79) Terphenyl-d14	19.59	244	249601	15.85	ng	-0.01
Target Compounds						Qvalue
50) Dimethylphthalate	13.66	163	11247	2.565	ng	99
52) Acenaphthene	14.25	154	6026	2.035	ng	93
71) Phenanthrene	16.99	178	182042	25.567	ng	99
72) Anthracene	17.09	178	36619	5.227	ng	99
75) Fluoranthene	19.02	202	550546	58.062	ng	98
78) Pyrene	19.39	202	568841	40.155	ng	100
81) Benzo(a)anthracene	21.15	228	371198	24.880	ng	99
83) Chrysene	21.20	228	333714	23.499	ng	98
86) Indeno(1,2,3-cd)pyrene	25.54	276	219759	15.385	ng	98
88) Benzo(b)fluoranthene	22.71	252	595920	33.321	ng	# 99
89) Benzo(k)fluoranthene	22.71	252	596331	33.612	ng	# 97
90) Benzo(a)pyrene	23.26	252	349659	22.027	ng	99
91) Dibenzo(a,h)anthracene	25.54	278	59031	3.729	ng	# 86
92) Benzo(a,h,i)perylene	26.22	276	218357	15.828	ng	97

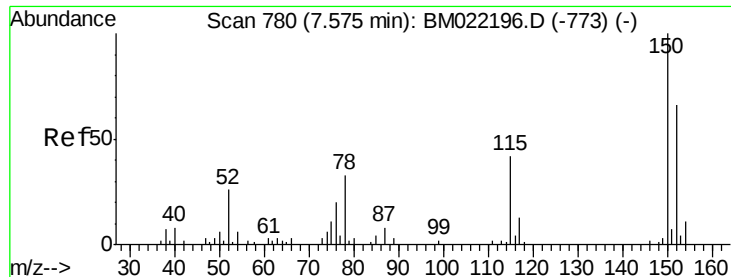
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA_M
ClientSampled :

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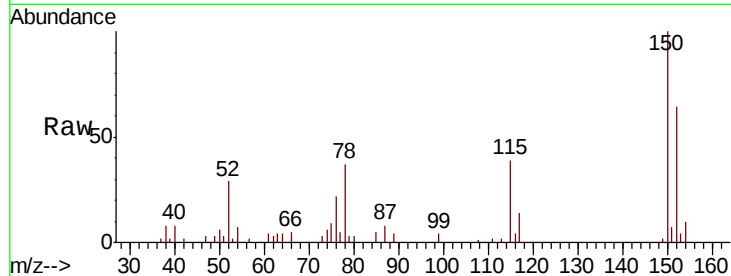


#1

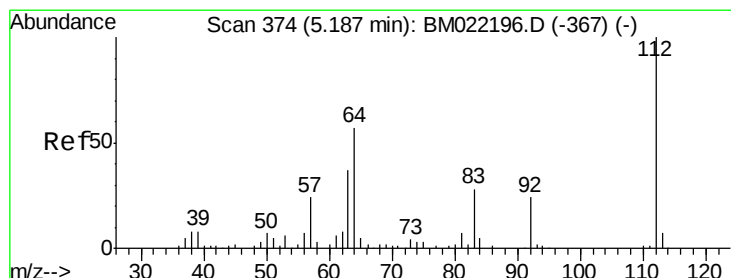
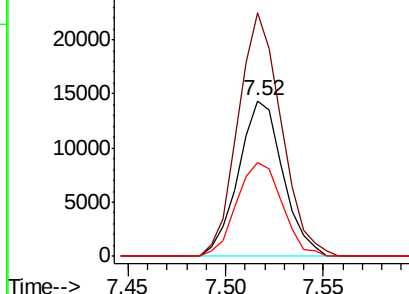
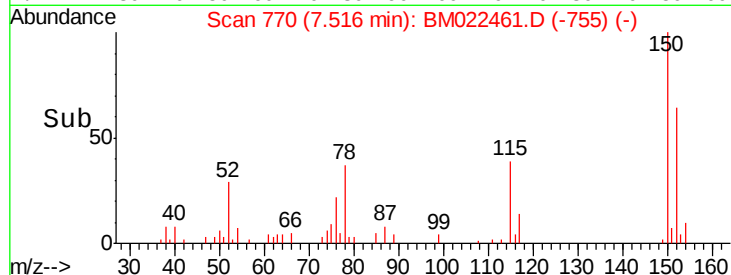
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 770
Delta R.T. -0.01 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 22568
Ion Ratio Lower Upper
152 100
150 156.7 125.4 188.0
115 60.7 50.3 75.5



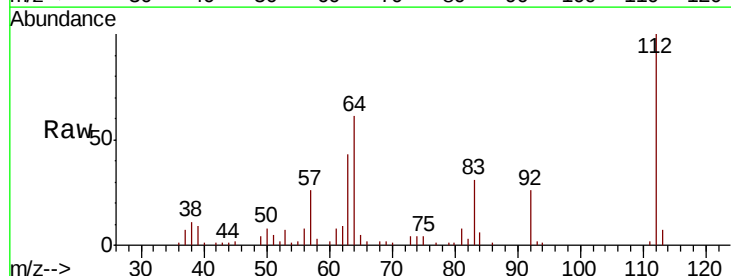
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



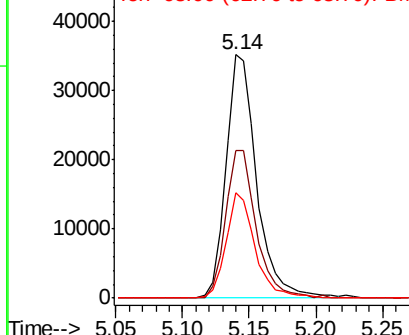
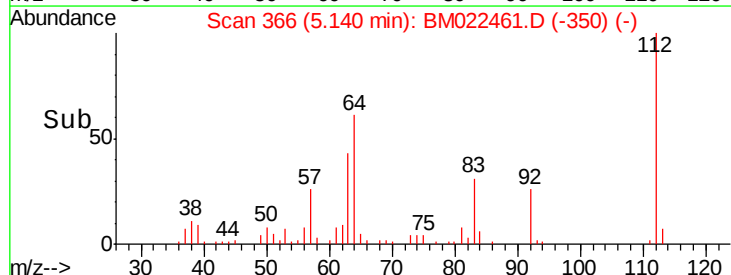
#5

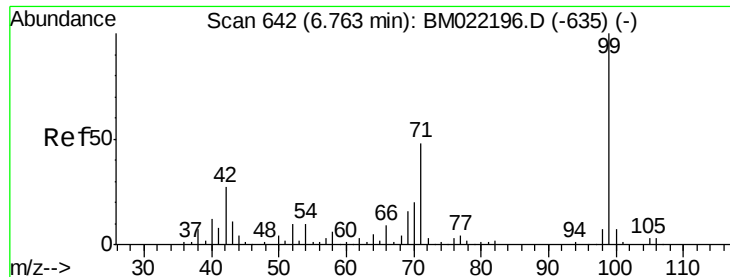
2-Fluorophenol
Concen: 43.958 ng
RT: 5.14 min Scan# 366
Delta R.T. -0.01 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Tgt Ion:112 Resp: 56516
Ion Ratio Lower Upper
112 100
64 60.9 45.4 68.2
63 43.1 34.5 51.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 40.600 ng

RT: 6.72 min Scan# 635

Delta R.T. 0.00 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Instrument :

BNA_M

ClientSampled :

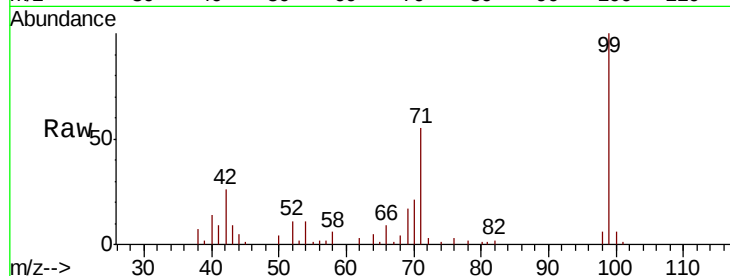
Tot Ion: 99 Resp: 69803

Ion Ratio Lower Upper

99 100

42 26.5 26.3 39.5

71 54.6 46.6 69.8

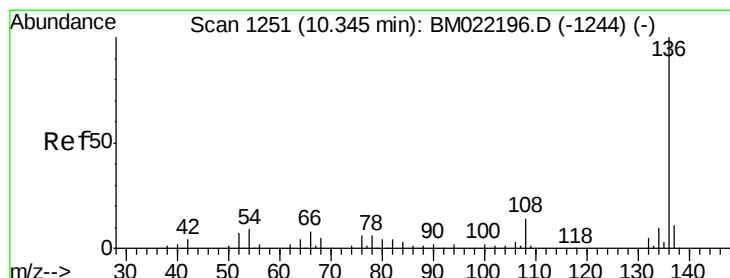
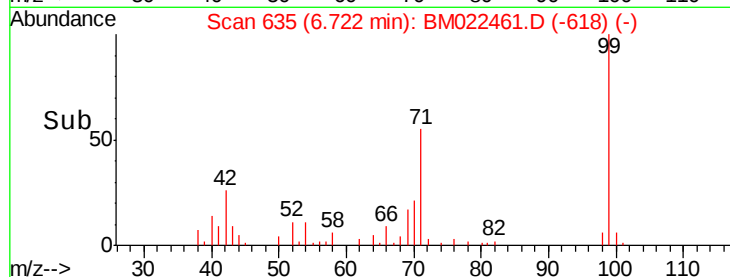
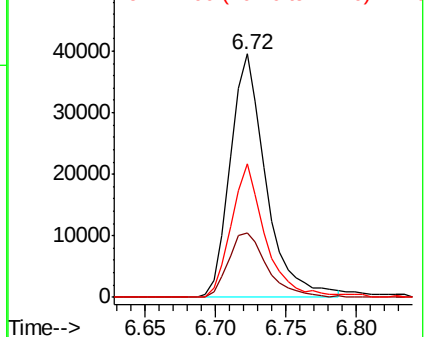


Abundance

Ion 99.00 (98.70 to 99.70): BM022461.D (-618) (-)

Ion 42.00 (41.70 to 42.70): BM022461.D (-618) (-)

Ion 71.00 (70.70 to 71.70): BM022461.D (-618) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.29 min Scan# 1242

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Tgt Ion: 136 Resp: 80134

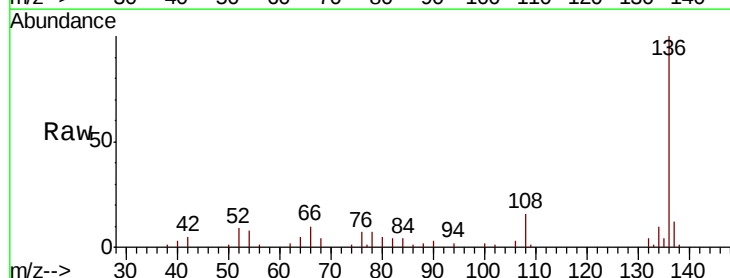
Ion Ratio Lower Upper

136 100

137 11.7 8.6 13.0

54 8.4 7.0 10.6

68 4.2 2.9 4.3



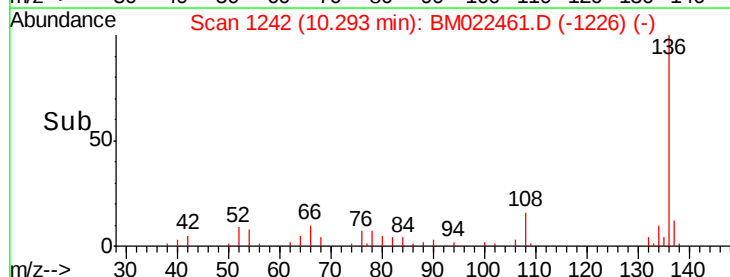
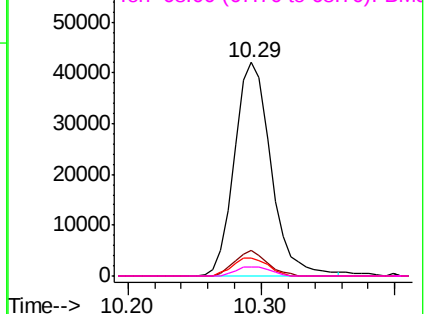
Abundance

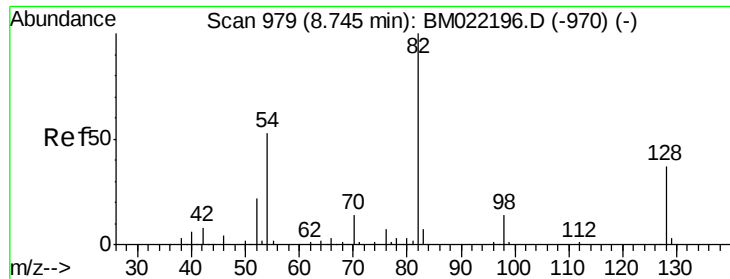
Ion 136.00 (135.70 to 136.70): BM022461.D (-1226) (-)

Ion 137.00 (136.70 to 137.70): BM022461.D (-1226) (-)

Ion 54.00 (53.70 to 54.70): BM022461.D (-1226) (-)

Ion 68.00 (67.70 to 68.70): BM022461.D (-1226) (-)

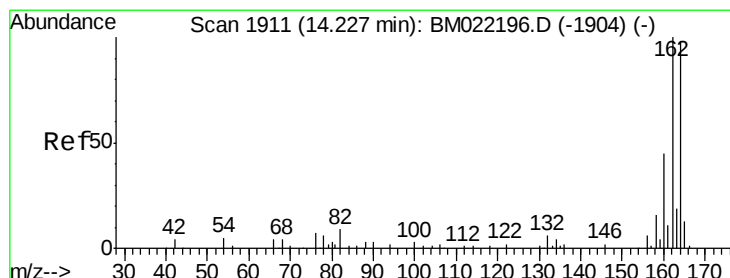
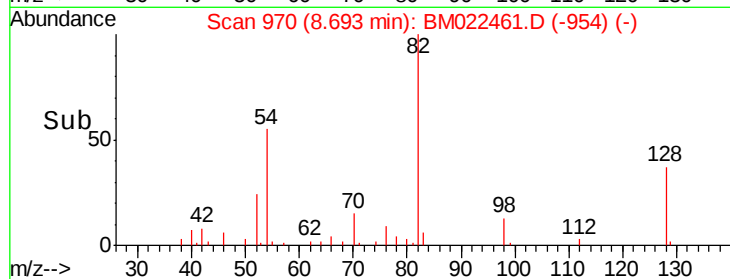
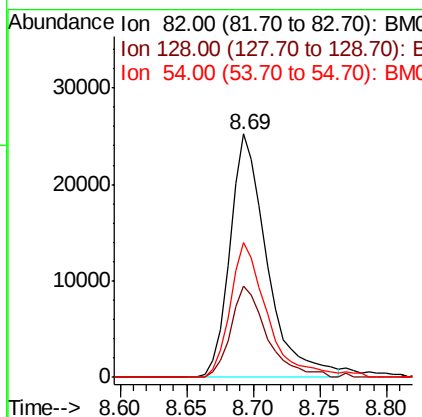
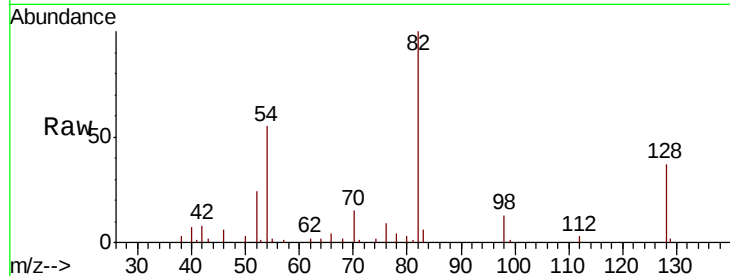




#23
 Nitrobenzene-d5
 Concen: 26.705 ng
 RT: 8.69 min Scan# 970
 Delta R.T. -0.01 min
 Lab File: BM022461.D
 Acq: 31 Aug 2019 03:26

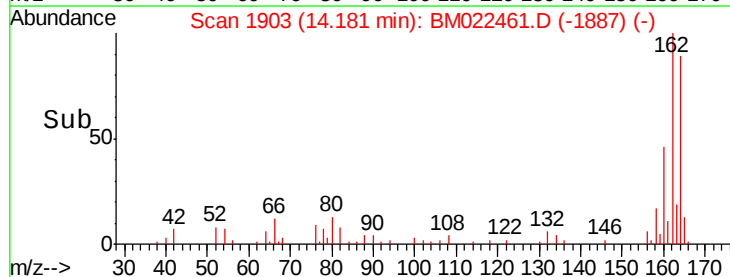
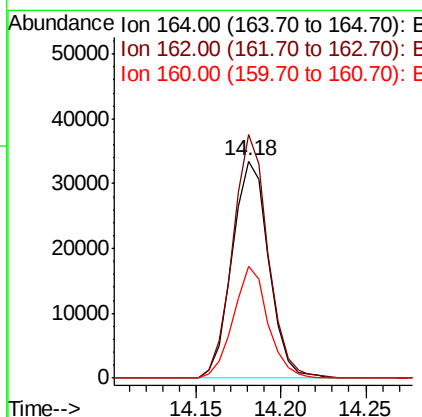
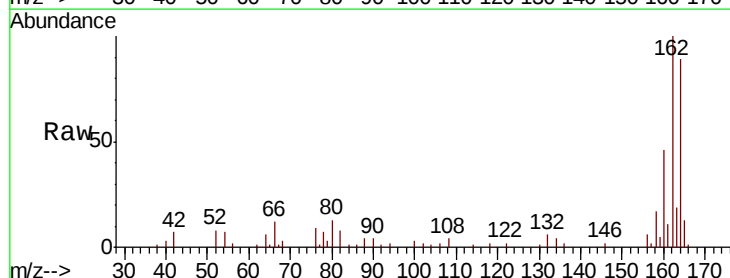
Instrument :
 BNA_M
 ClientSampleID :

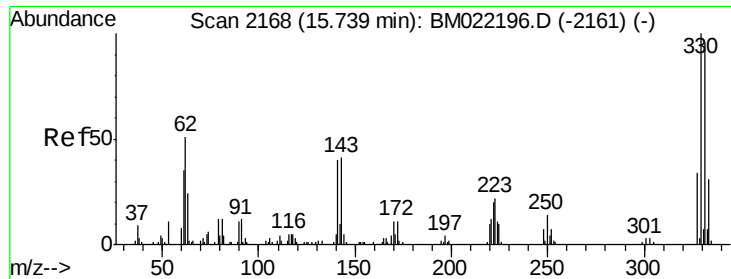
Tot Ion	82	Resp	48857
Ion Ratio	100	Lower	Upper
128	37.3	27.9	41.9
54	55.3	45.2	67.8



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.18 min Scan# 1903
 Delta R.T. -0.01 min
 Lab File: BM022461.D
 Acq: 31 Aug 2019 03:26

Tgt Ion	164	Resp	50423
Ion Ratio	100	Lower	Upper
162	112.0	80.6	121.0
160	51.2	37.3	55.9





#42

2,4,6-Tribromophenol

Concen: 33.836 ng

RT: 15.70 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Instrument :

BNA_M

ClientSampleId :

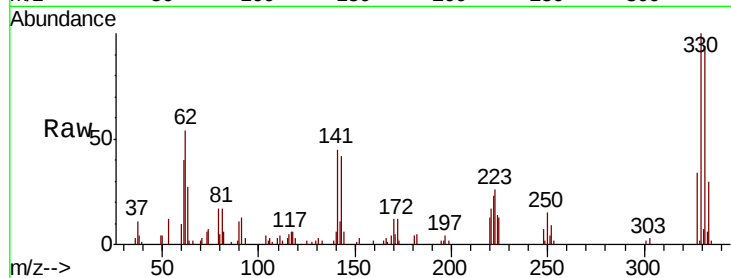
Tot Ion:330 Resp: 34912

Ion Ratio Lower Upper

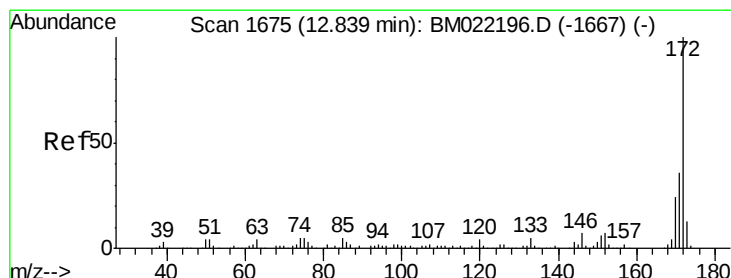
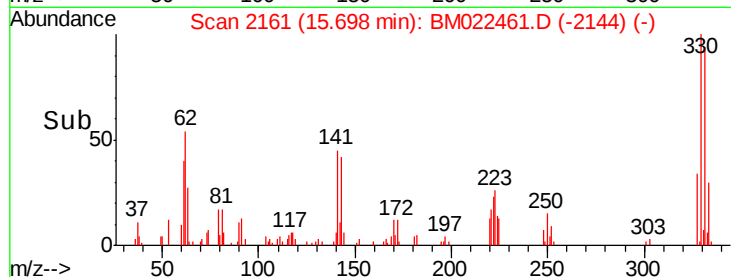
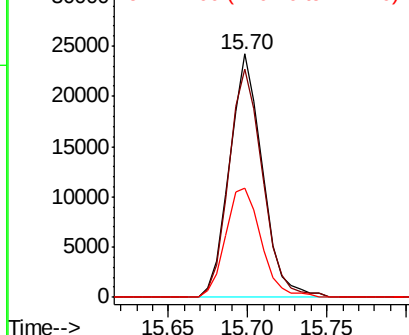
330 100

332 96.1 77.8 116.8

141 48.6 35.6 53.4



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: 23.027 ng

RT: 12.79 min Scan# 1666

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

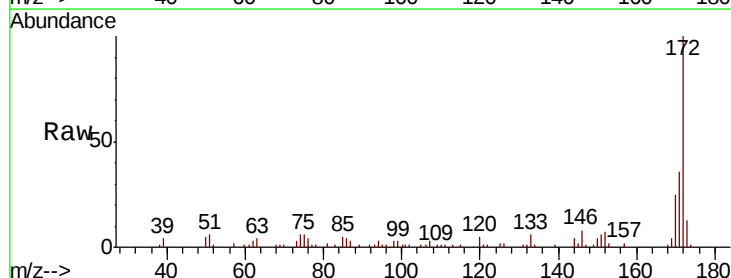
Tgt Ion:172 Resp: 102492

Ion Ratio Lower Upper

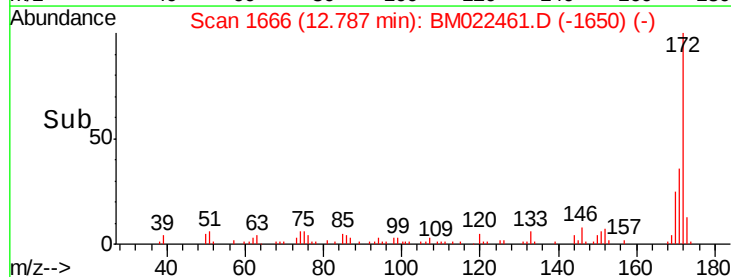
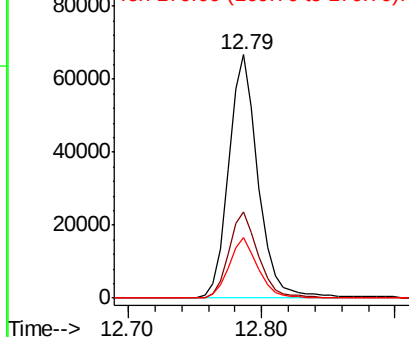
172 100

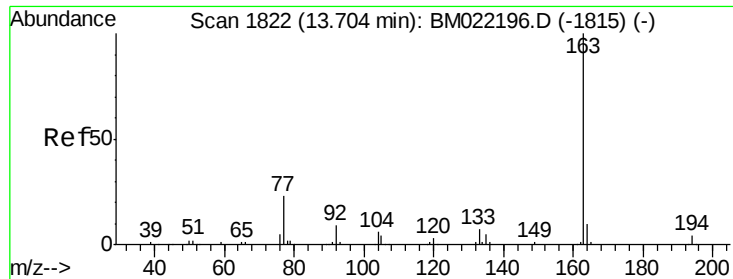
171 35.5 28.5 42.7

170 24.8 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: 2.565 ng

RT: 13.66 min Scan# 1815

Delta R.T. 0.00 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Instrument :

BNA_M

ClientSampleId :

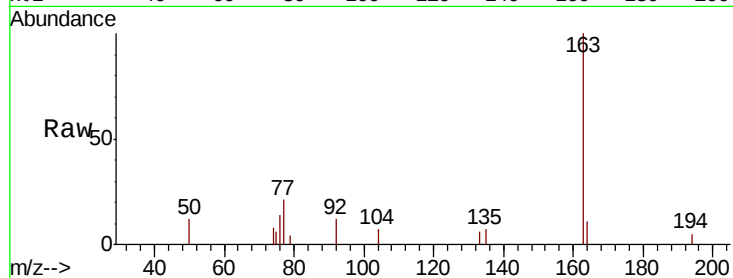
Tot Ion:163 Resp: 11247

Ion Ratio Lower Upper

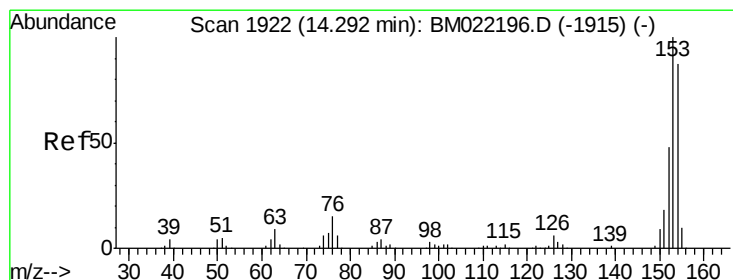
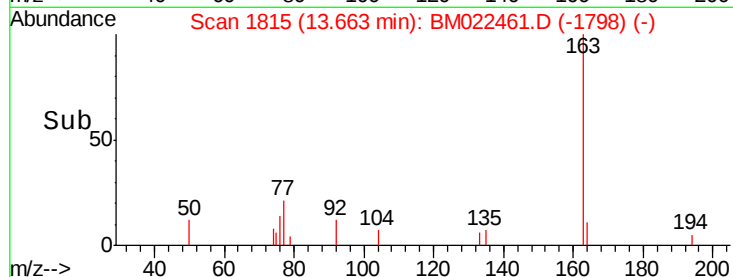
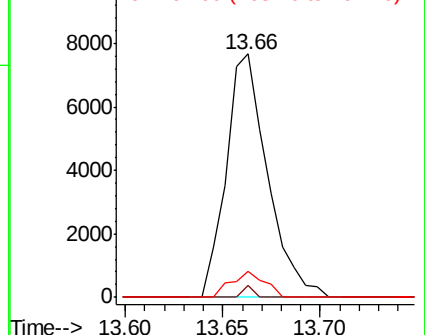
163 100

194 4.7 3.4 5.2

164 10.6 8.2 12.2



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: 2.035 ng

RT: 14.25 min Scan# 1914

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

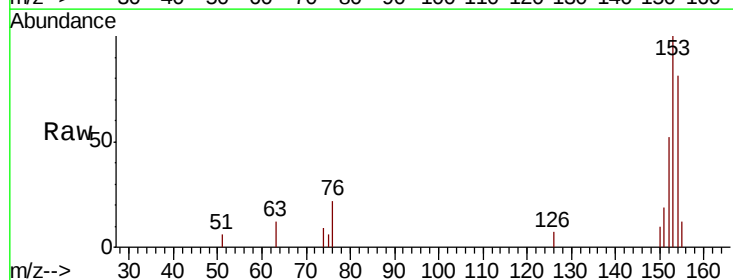
Tgt Ion:154 Resp: 6026

Ion Ratio Lower Upper

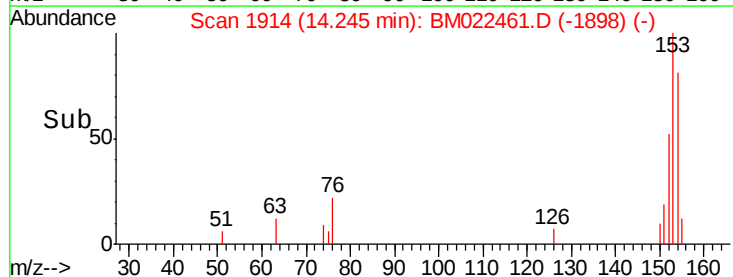
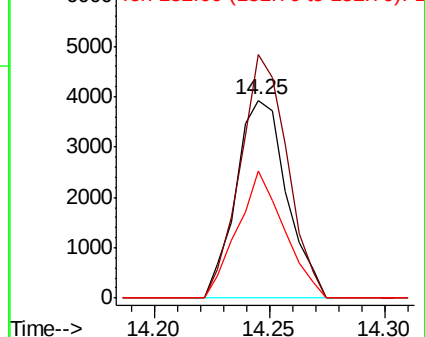
154 100

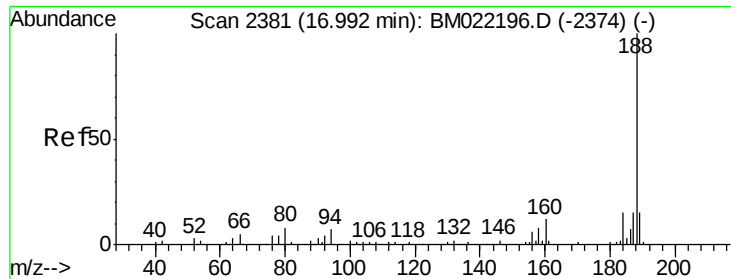
153 123.2 94.3 141.5

152 64.5 45.4 68.2



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

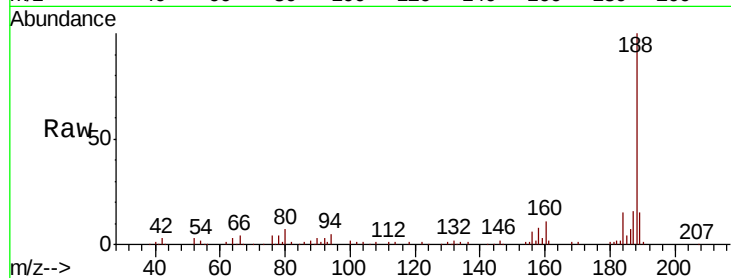




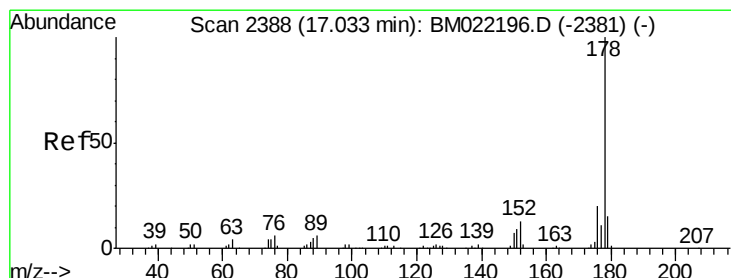
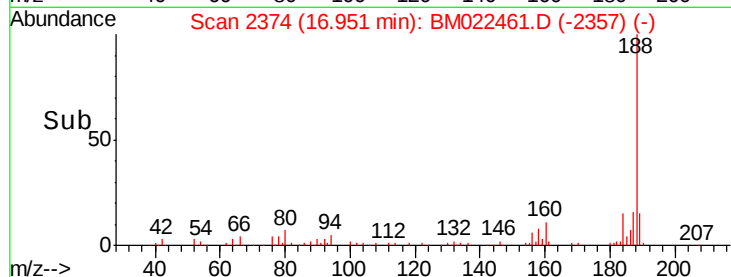
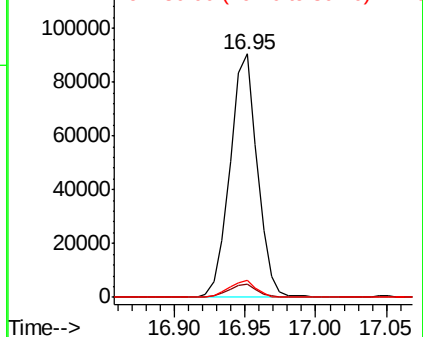
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.95 min Scan# 2374
Delta R.T. 0.00 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Instrument :
BNA_M
ClientSampleId :

Tot Ion:188 Resp: 122152
Ion Ratio Lower Upper
188 100
94 5.5 4.4 6.6
80 7.3 5.0 7.6

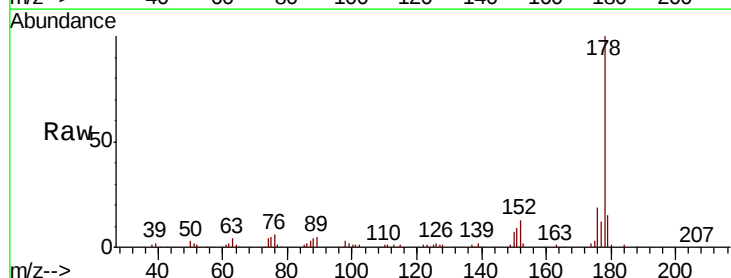


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM
Ion 80.00 (79.70 to 80.70): BM

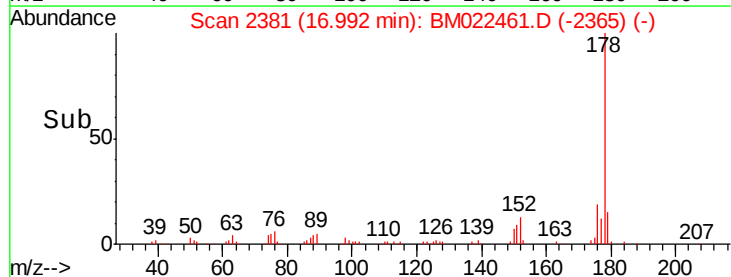
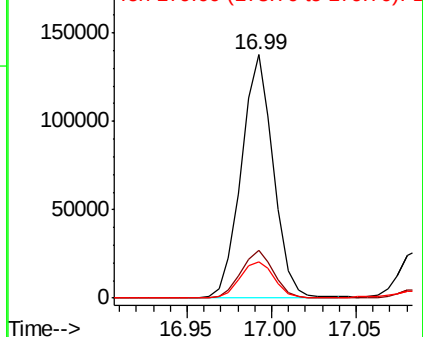


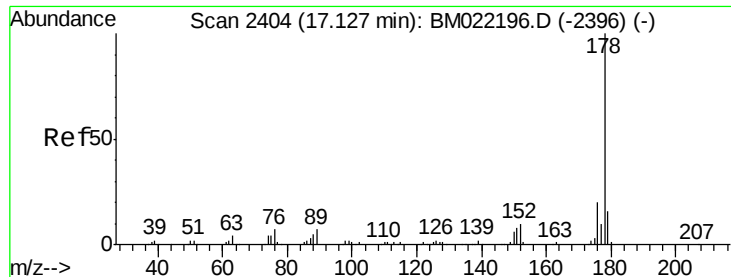
#71
Phenanthrene
Concen: 25.567 ng
RT: 16.99 min Scan# 2381
Delta R.T. -0.01 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Tgt Ion:178 Resp: 182042
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.0 12.3 18.5



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: 5.227 ng

RT: 17.09 min Scan# 2397

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Instrument :

BNA_M

ClientSampleId :

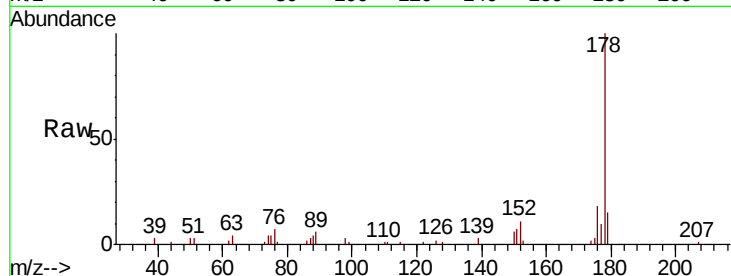
Tot Ion:178 Resp: 36619

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

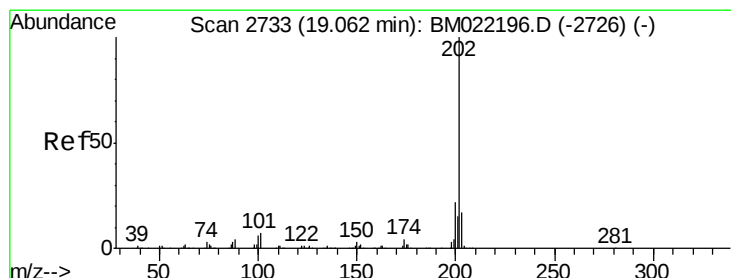
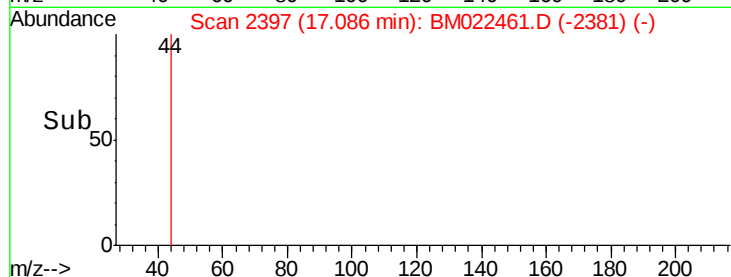
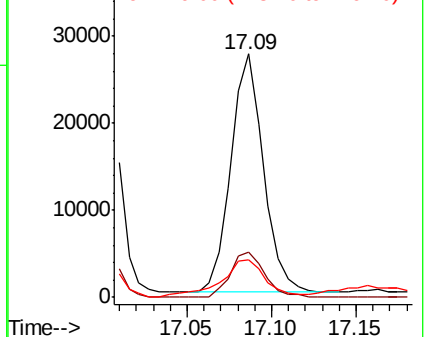
179 15.2 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 58.062 ng

RT: 19.02 min Scan# 2726

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

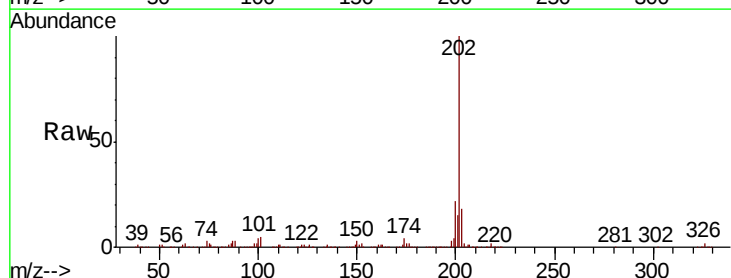
Tgt Ion:202 Resp: 550546

Ion Ratio Lower Upper

202 100

101 5.4 0.0 25.1

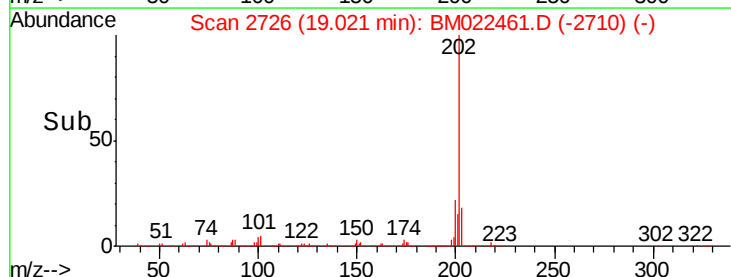
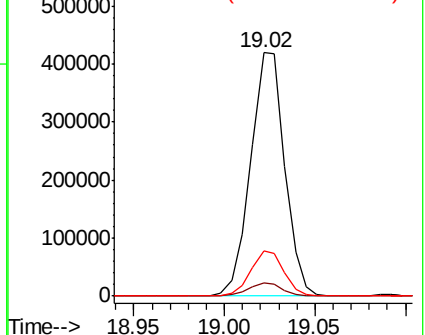
203 18.3 0.0 37.1

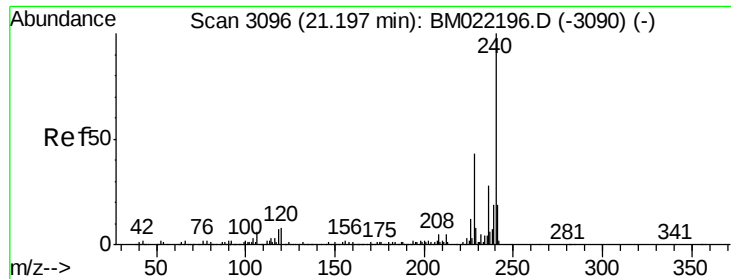


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

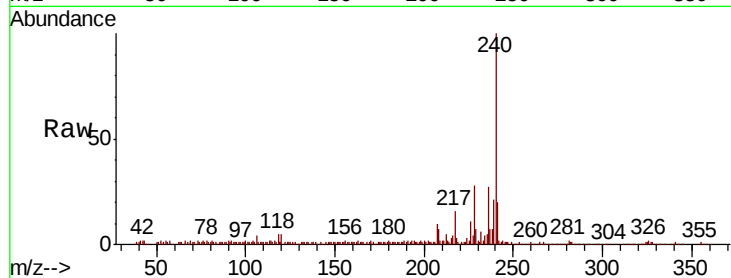




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.17 min Scan# 3091
Delta R.T. -0.01 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
240	100		
120	4.6	3.9	5.9
236	27.0	21.4	32.2

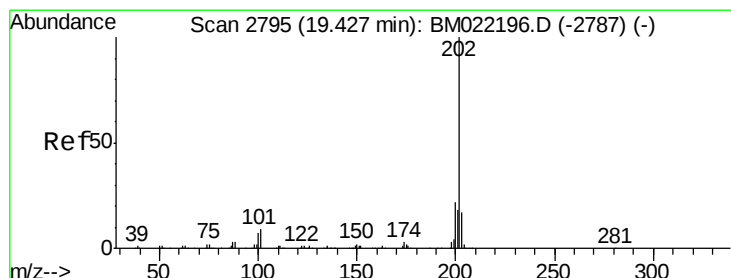
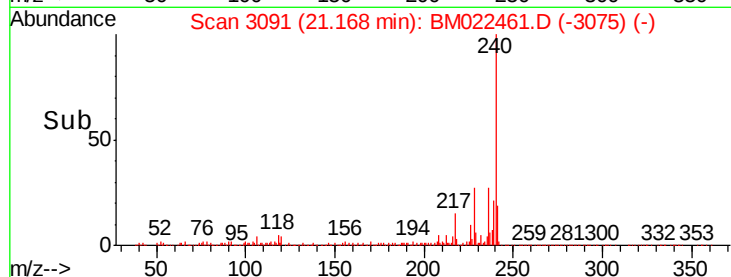
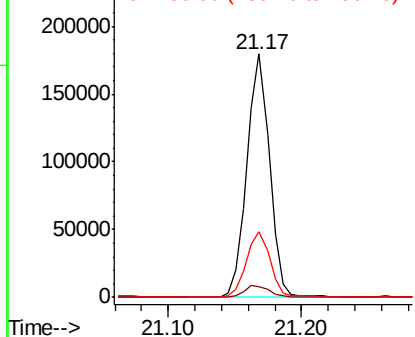


Abundance

Ion 240.00 (239.70 to 240.70): E

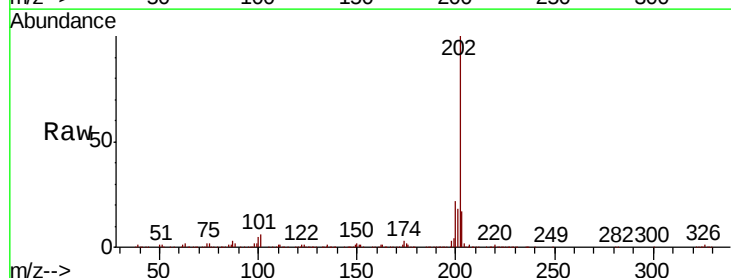
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 40.155 ng
RT: 19.39 min Scan# 2789
Delta R.T. -0.01 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.7	26.5
203	17.5	13.8	20.8

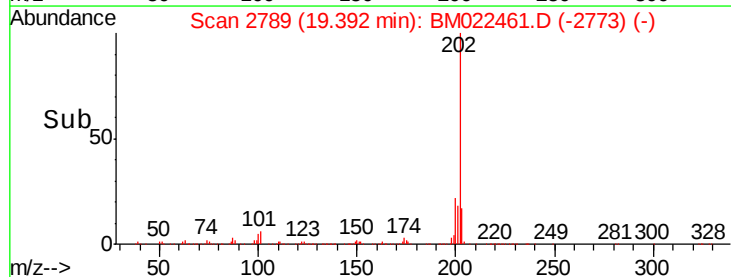
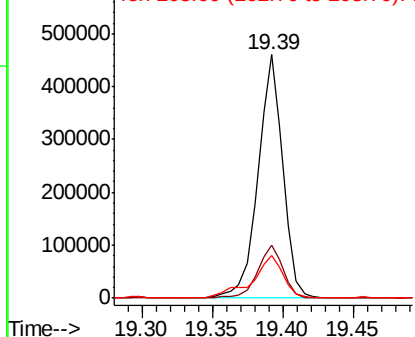


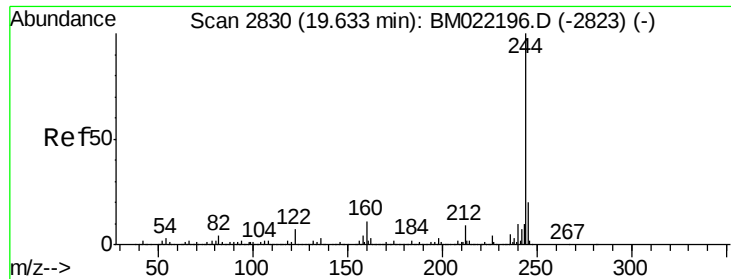
Abundance

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: 15.847 ng

RT: 19.59 min Scan# 2823

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Instrument :

BNA_M

ClientSampled :

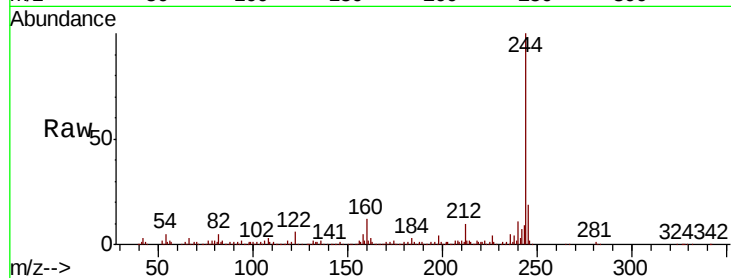
Tot Ion:244 Resp: 249601

Ion Ratio Lower Upper

244 100

212 9.6 7.0 10.4

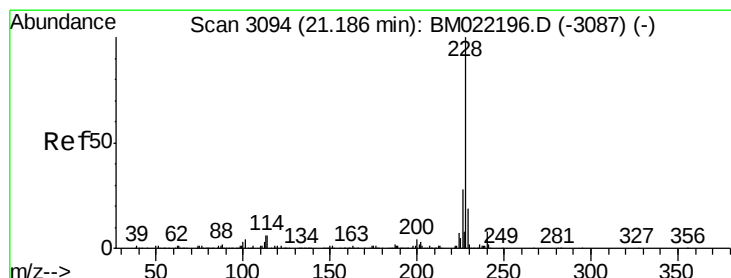
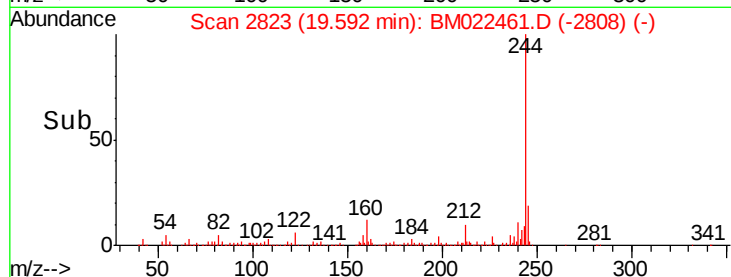
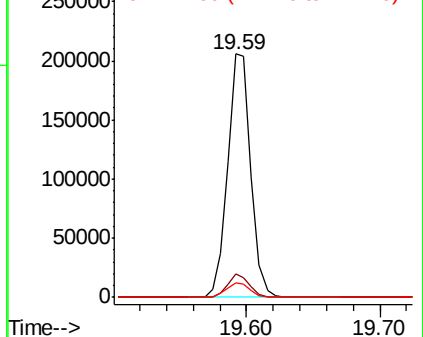
122 6.1 3.9 5.9#



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: 24.880 ng

RT: 21.15 min Scan# 3088

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

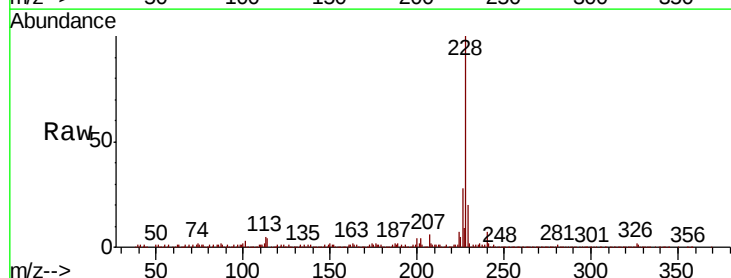
Tgt Ion:228 Resp: 371198

Ion Ratio Lower Upper

228 100

226 27.7 22.6 34.0

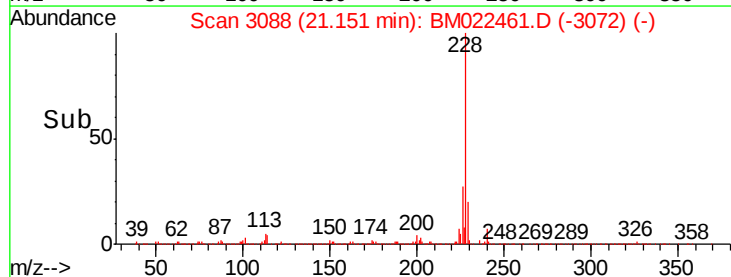
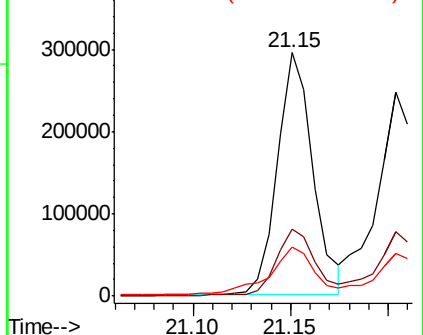
229 20.1 15.9 23.9

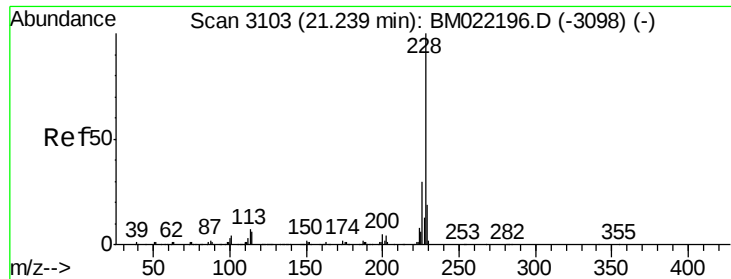


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 23.499 ng

RT: 21.20 min Scan# 3097

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

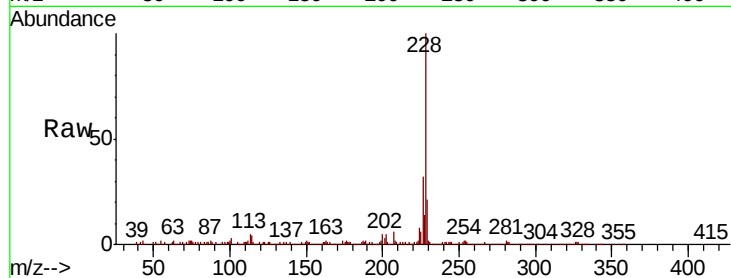
Instrument :

BNA_M

ClientSampleId :

Tot Ion:228 Resp: 333714

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.5	36.7
229	21.1	15.7	23.5

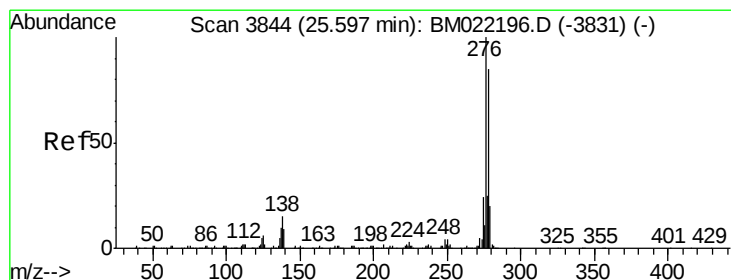
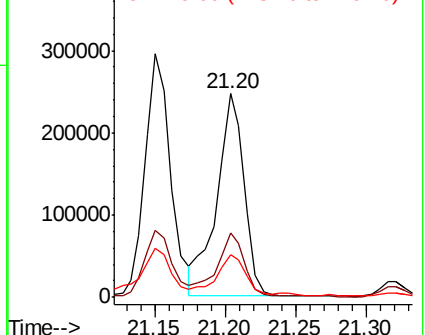
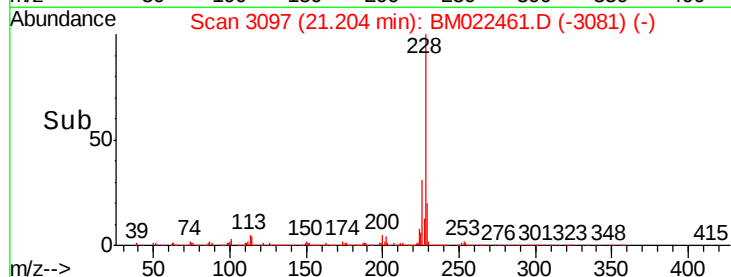


Abundance

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: 15.385 ng

RT: 25.54 min Scan# 3835

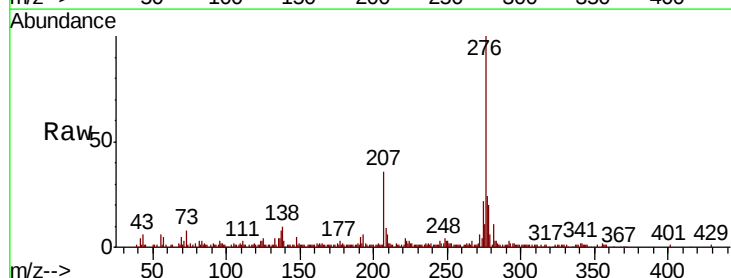
Delta R.T. 0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Tgt Ion:276 Resp: 219759

Ion	Ratio	Lower	Upper
276	100		
138	10.6	9.1	13.7
277	24.0	20.0	30.0

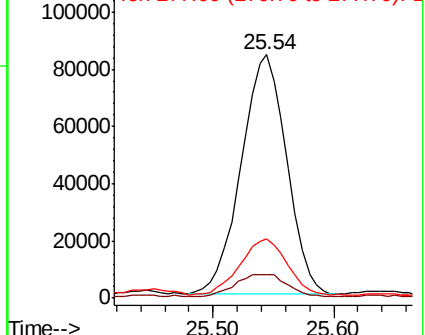
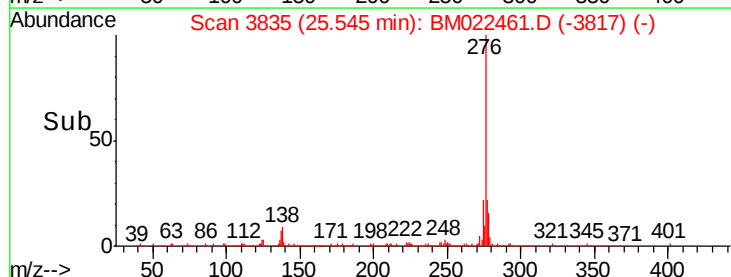


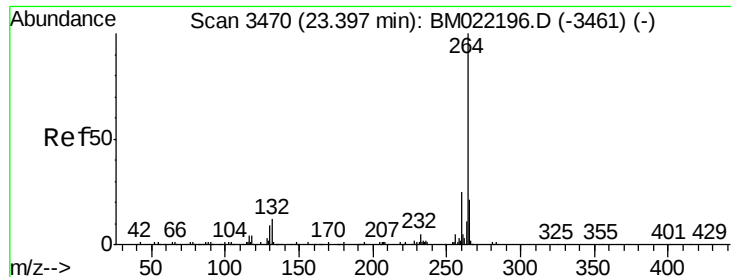
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.36 min Scan# 3463

Delta R.T. -0.01 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

Instrument :

BNA_M

ClientSampleId :

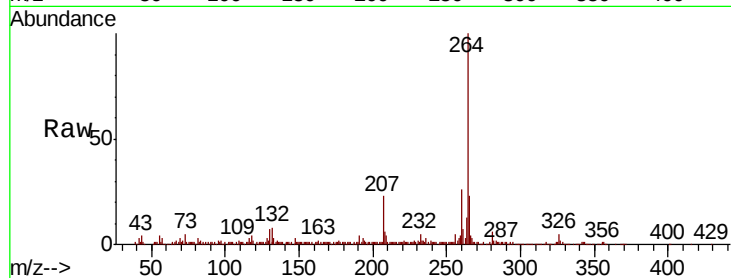
Tot Ion:264 Resp: 257433

Ion Ratio Lower Upper

264 100

260 26.1 20.2 30.2

265 22.8 18.2 27.2

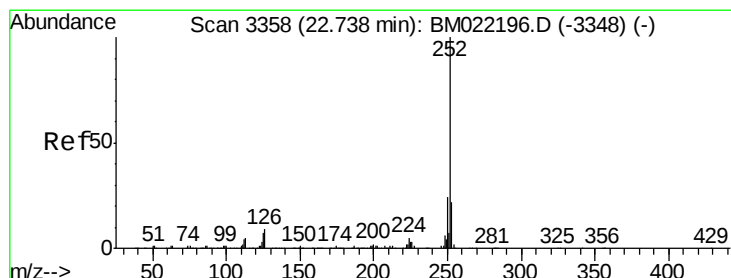
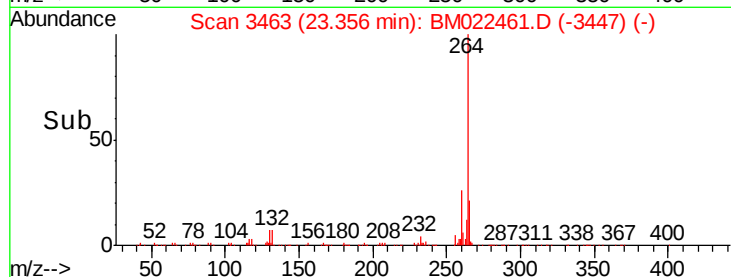
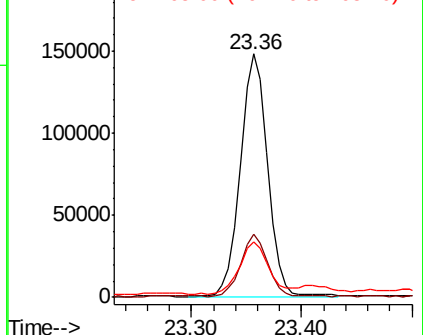


Abundance

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: 33.321 ng

RT: 22.71 min Scan# 3353

Delta R.T. 0.00 min

Lab File: BM022461.D

Acq: 31 Aug 2019 03:26

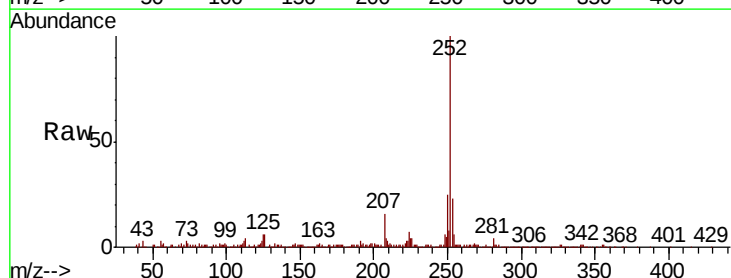
Tgt Ion:252 Resp: 595920

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

125 5.5 3.5 5.3#

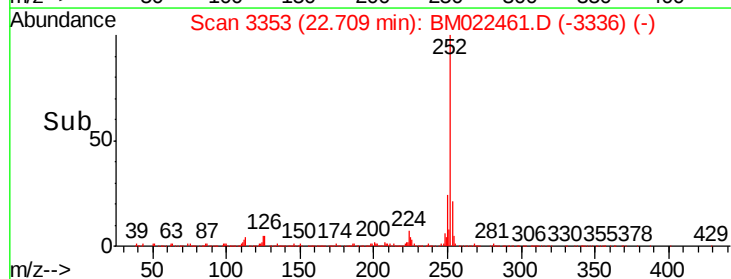
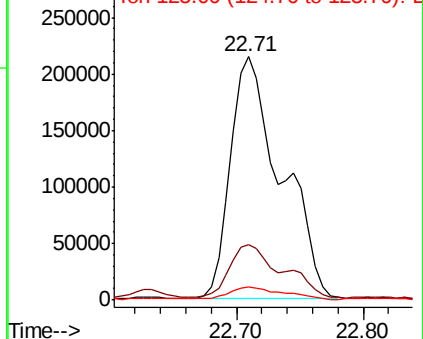


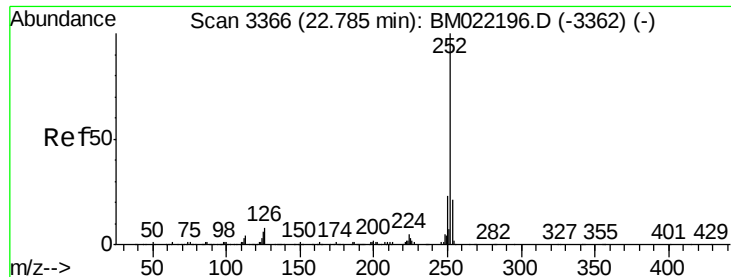
Abundance

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





#89

Benzo(k)fluoranthene

Concen: 33.612 ng

RT: 22.71 min Scan# 3353

Delta R.T. -0.04 min

Lab File: BM022461.D

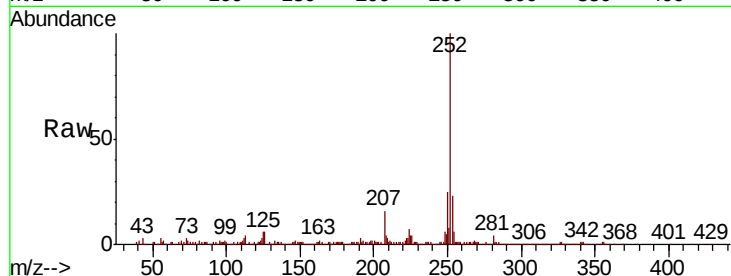
Acq: 31 Aug 2019 03:26

Instrument :

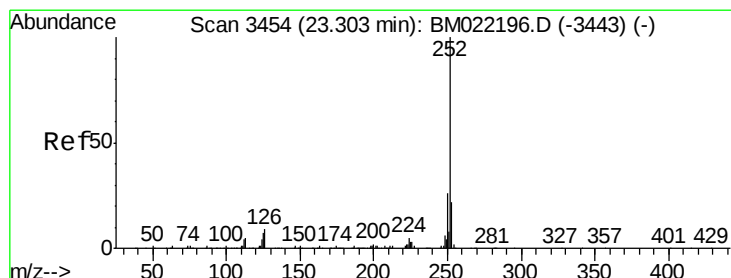
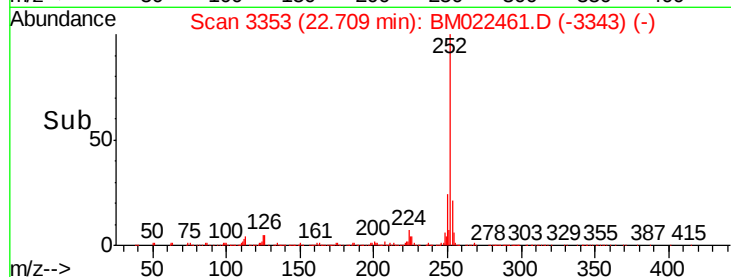
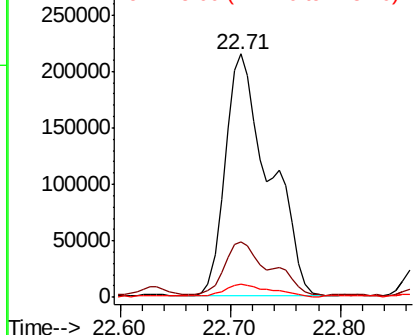
BNA_M

ClientSampled :

Tot Ion:252	Resp:	596331
Ion Ratio	Lower	Upper
252	100	
253	22.9	17.0 25.4
125	5.5	3.7 5.5#



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



#90

Benzo(a)pyrene

Concen: 22.027 ng

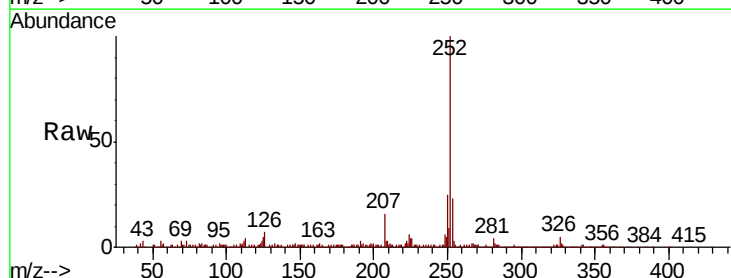
RT: 23.26 min Scan# 3447

Delta R.T. -0.01 min

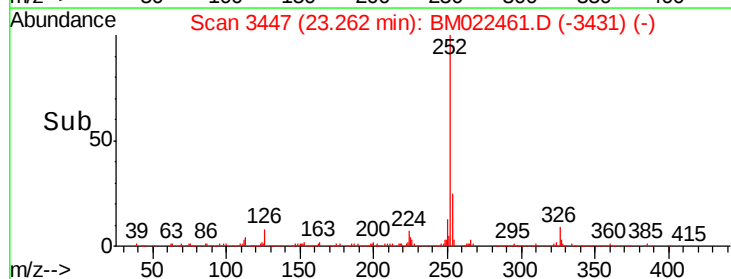
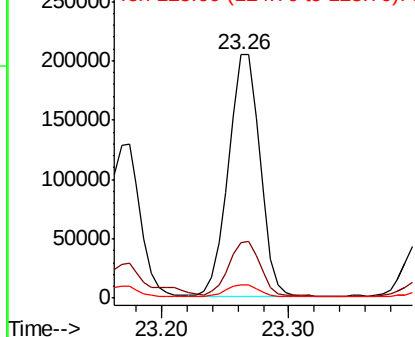
Lab File: BM022461.D

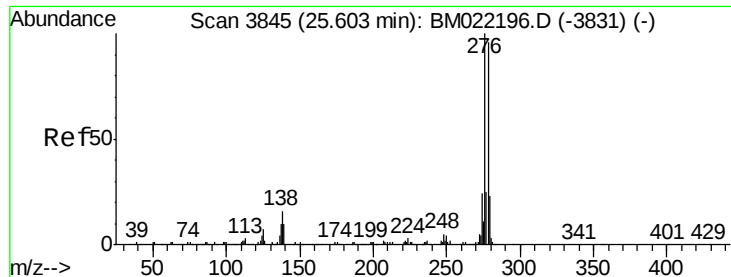
Acq: 31 Aug 2019 03:26

Tgt Ion:252	Resp:	349659
Ion Ratio	Lower	Upper
252	100	
253	23.0	18.2 27.2
125	5.4	3.8 5.8



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

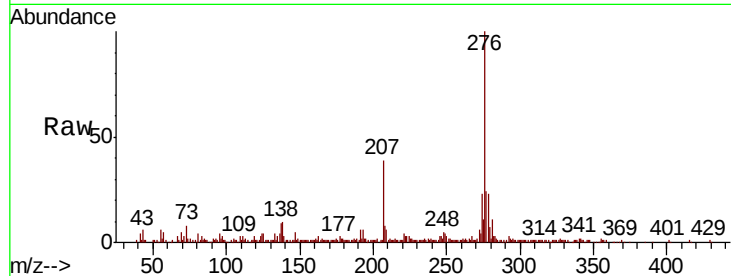




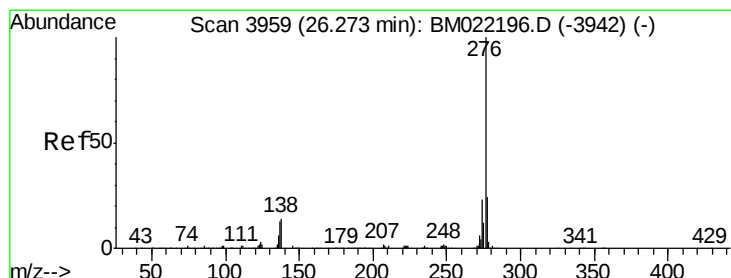
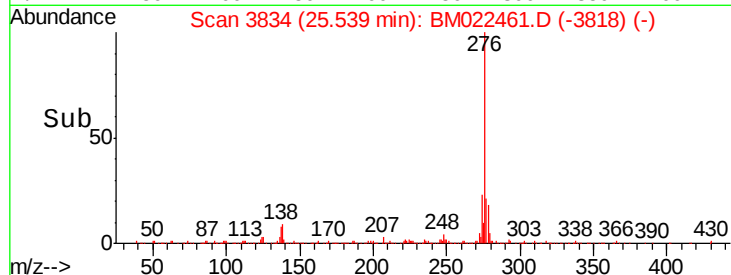
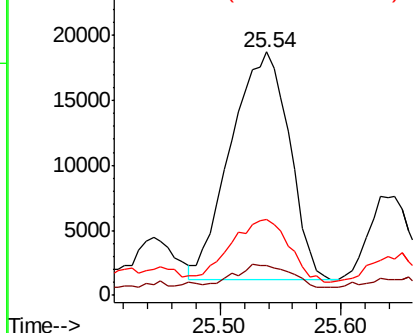
#91
Dibenzo(a,h)anthracene
Concen: 3.729 ng
RT: 25.54 min Scan# 3834
Delta R.T. -0.01 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Instrument :
BNA_M
ClientSampled :

Tot Ion:278 Resp: 59031
Ion Ratio Lower Upper
278 100
139 12.4 6.6 9.8#
279 31.2 19.3 28.9#

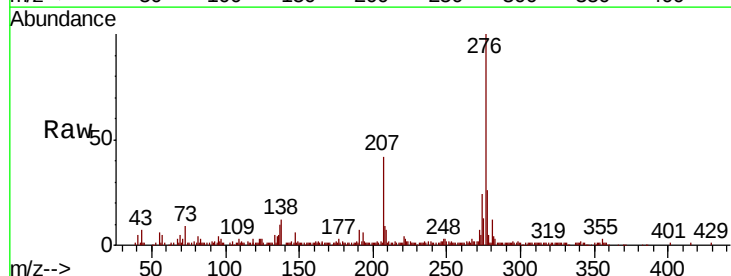


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 15.828 ng
RT: 26.22 min Scan# 3949
Delta R.T. 0.00 min
Lab File: BM022461.D
Acq: 31 Aug 2019 03:26

Tgt Ion:276 Resp: 218357
Ion Ratio Lower Upper
276 100
277 26.0 19.4 29.0
138 11.7 8.8 13.2



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

