

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
 Data File : BM022447.D
 Acq On : 30 Aug 2019 18:54
 Operator : HP/JU
 Sample : K4574-14RE
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Aug 30 19:31:12 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	16619	20.00	ng	-0.01
21) Naphthalene-d8	10.29	136	58572	20.00	ng	0.00
39) Acenaphthene-d10	14.18	164	36623	20.00	ng	0.00
64) Phenanthrene-d10	16.94	188	87051	20.00	ng	0.00
76) Chrysene-d12	21.16	240	129723	20.00	ng	-0.01
87) Perylene-d12	23.35	264	165617	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.16	112	505	0.53	ng	0.02
7) Phenol-d6	6.77	99	116	0.09	ng	0.05
23) Nitrobenzene-d5	8.73	82	114	0.09	ng	0.03
42) 2,4,6-Tribromophenol	15.72	330	257	0.34	ng	0.02
45) 2-Fluorobiphenyl	12.80	172	1086	0.34	ng	0.01
79) Terphenyl-d14	19.59	244	27565	2.80	ng	-0.01

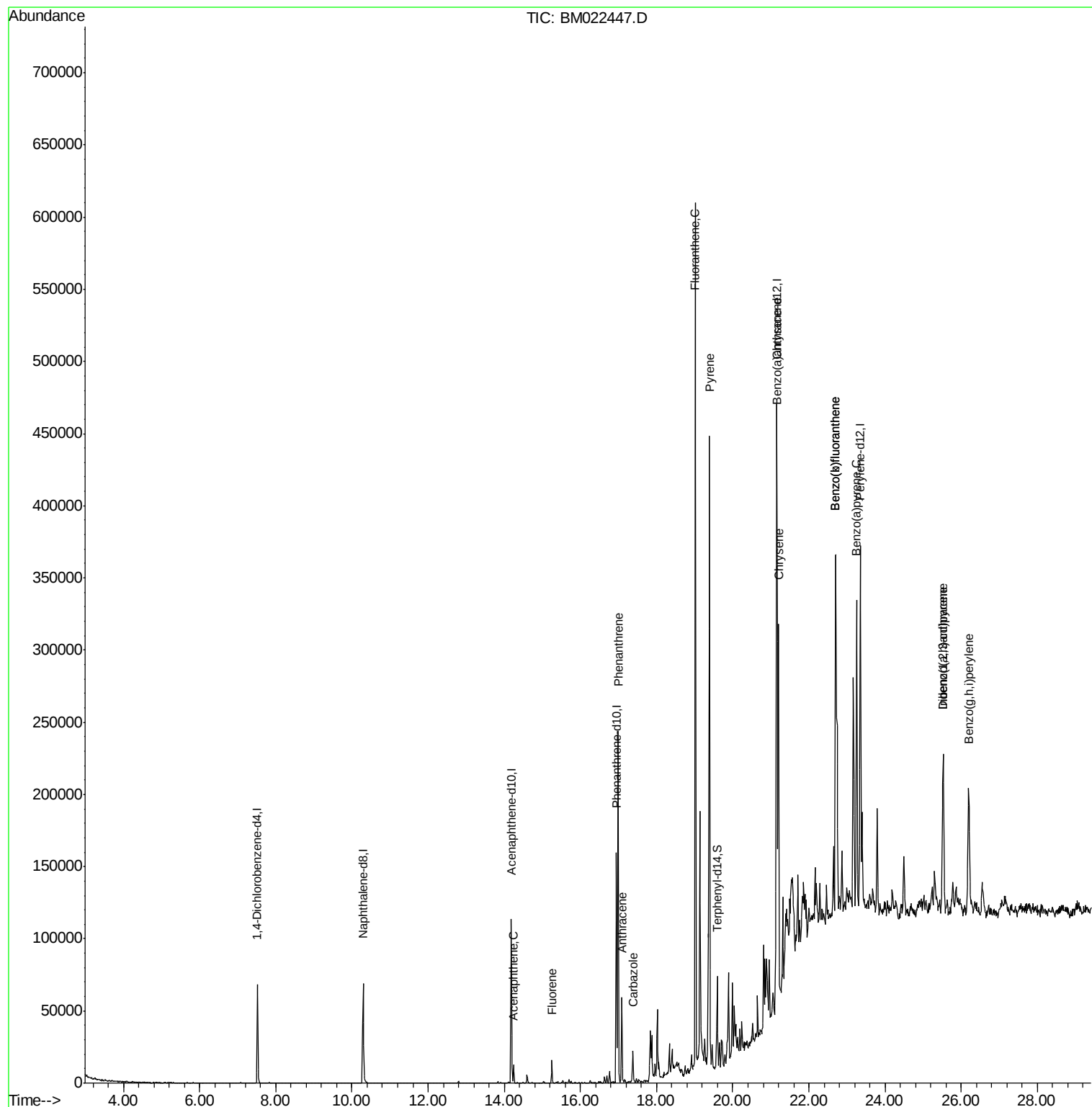
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
52) Acenaphthene	14.25	154	5267	2.449	ng	89
58) Fluorene	15.25	166	7272	2.247	ng	89
71) Phenanthrene	16.99	178	134229	26.453	ng	98
72) Anthracene	17.09	178	34154	6.841	ng	97
73) Carbazole	17.38	167	15145	3.670	ng	98
75) Fluoranthene	19.02	202	318482	47.131	ng	100
78) Pyrene	19.39	202	254321	28.767	ng	99
81) Benzo(a)anthracene	21.15	228	155551	16.706	ng	99
83) Chrysene	21.20	228	138170	15.590	ng	98
86) Indeno(1,2,3-cd)pyrene	25.53	276	97883	10.980	ng	99
88) Benzo(b)fluoranthene	22.70	252	200842	17.456	ng	# 99
89) Benzo(k)fluoranthene	22.70	252	200842	17.597	ng	98
90) Benzo(a)pyrene	23.26	252	139613	13.671	ng	# 96
91) Dibenzo(a,h)anthracene	25.53	278	24739	2.429	ng	# 86
92) Benzo(a,h,i)perylene	26.20	276	100309	11.302	ng	97

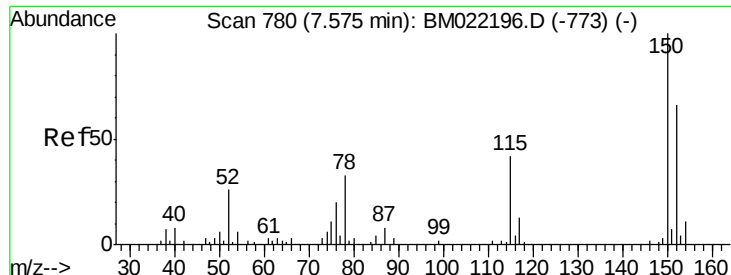
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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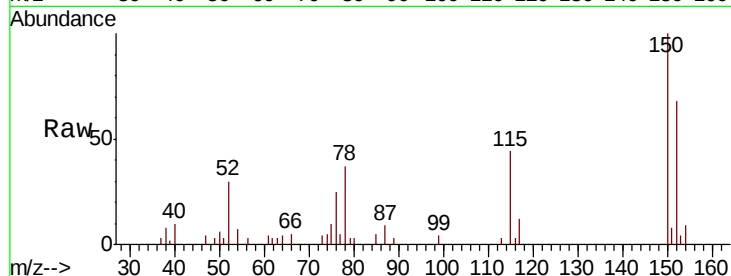


#1

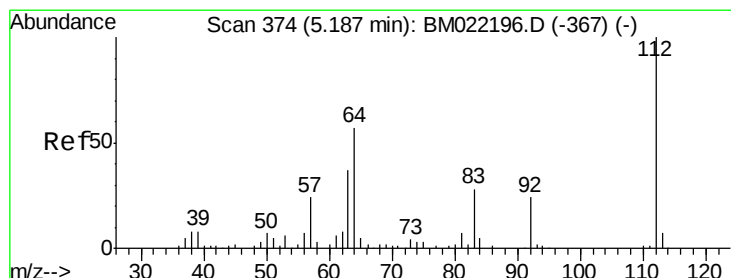
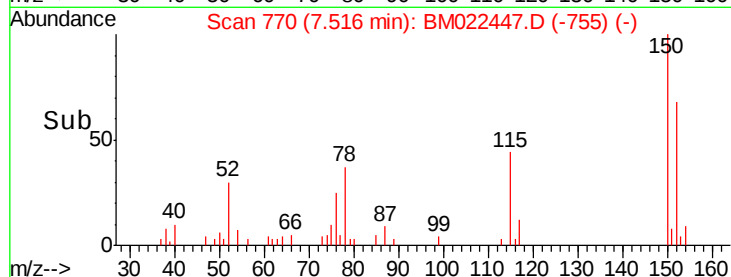
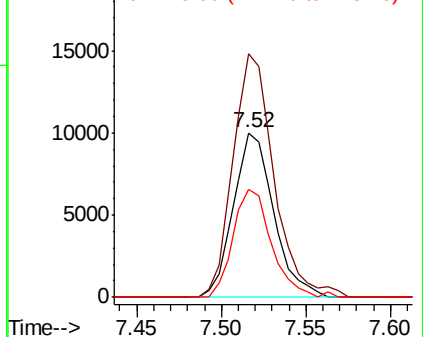
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 770
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 16619
Ion Ratio Lower Upper
152 100
150 147.7 125.4 188.0
115 65.2 50.3 75.5



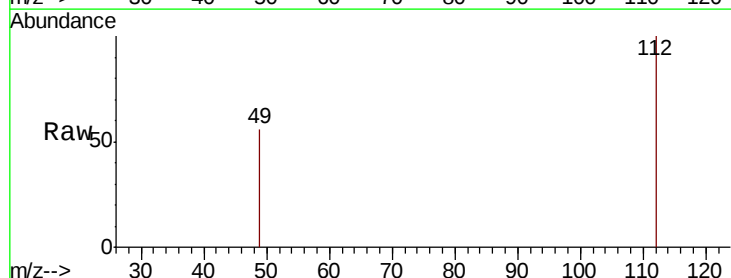
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



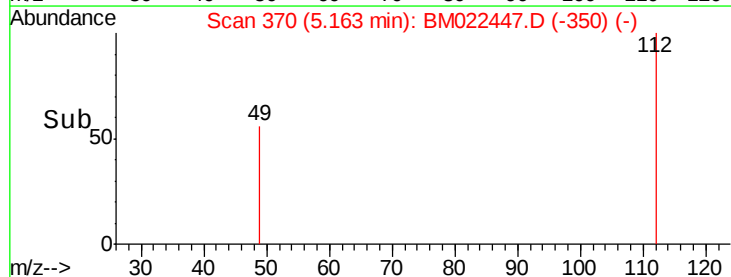
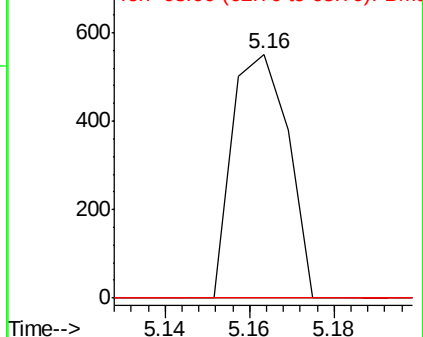
#5

2-Fluorophenol
Concen: 0.533 ng
RT: 5.16 min Scan# 370
Delta R.T. 0.02 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Tgt Ion:112 Resp: 505
Ion Ratio Lower Upper
112 100
64 0.0 45.4 68.2#
63 0.0 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: 0.092 ng

RT: 6.77 min Scan# 643

Delta R.T. 0.05 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

Instrument :

BNA_M

ClientSampleId :

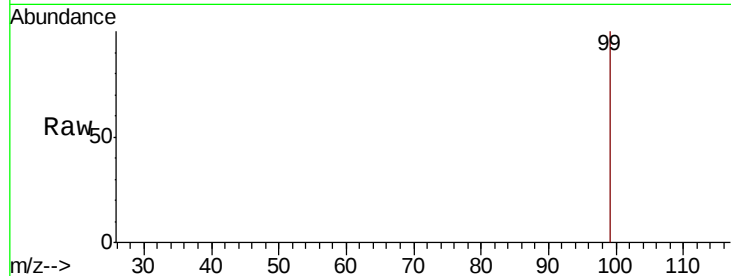
Tot Ion: 99 Resp: 116

Ion Ratio Lower Upper

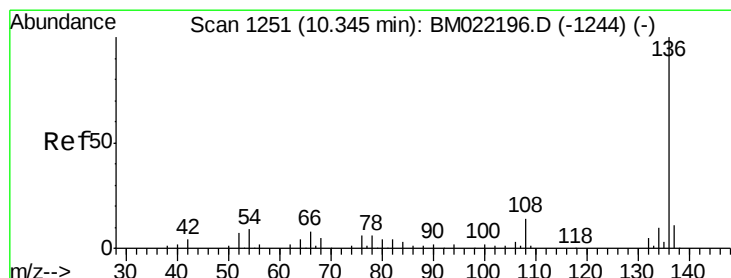
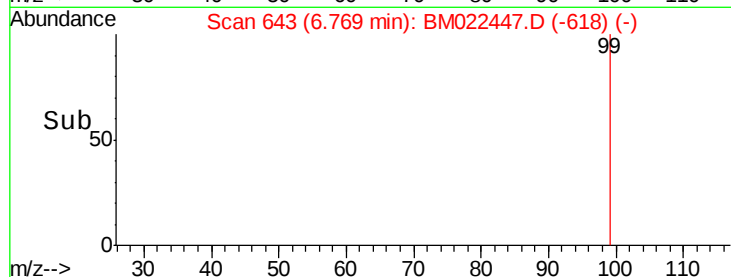
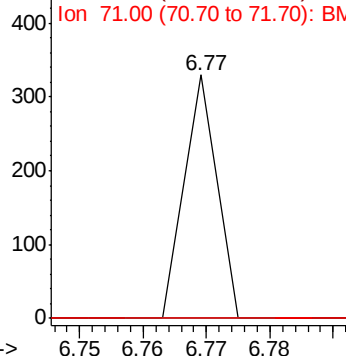
99 100

42 0.0 26.3 39.5#

71 0.0 46.6 69.8#



Abundance Ion 99.00 (98.70 to 99.70): BM022196.D (-635) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.29 min Scan# 1242

Delta R.T. -0.01 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

Tgt Ion: 136 Resp: 58572

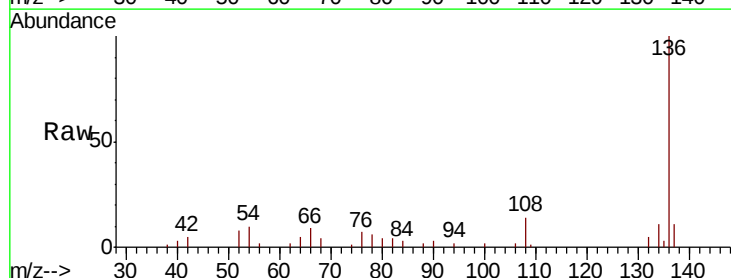
Ion Ratio Lower Upper

136 100

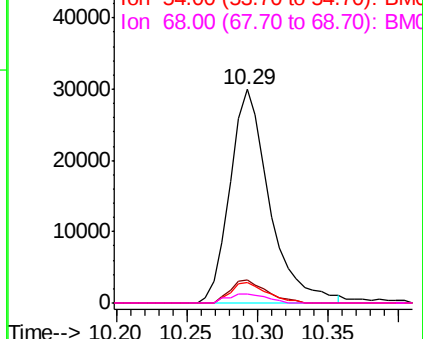
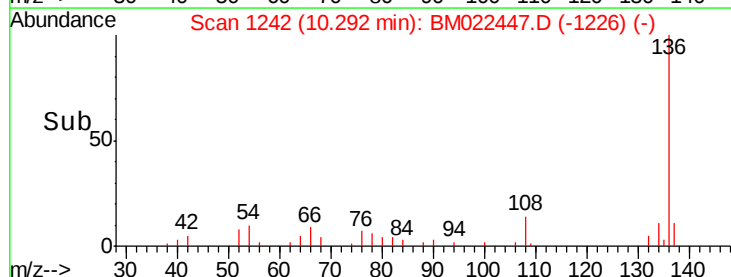
137 11.0 8.6 13.0

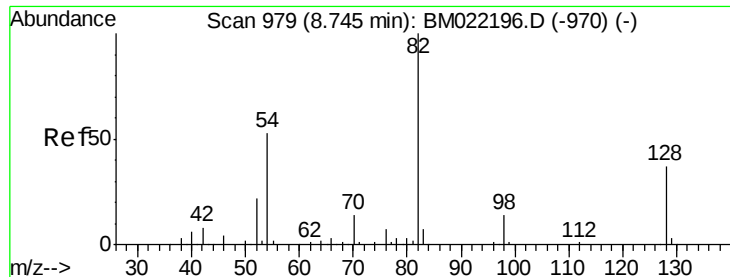
54 9.8 7.0 10.6

68 4.2 2.9 4.3



Abundance Ion 136.00 (135.70 to 136.70): BM022196.D (-1244) (-)

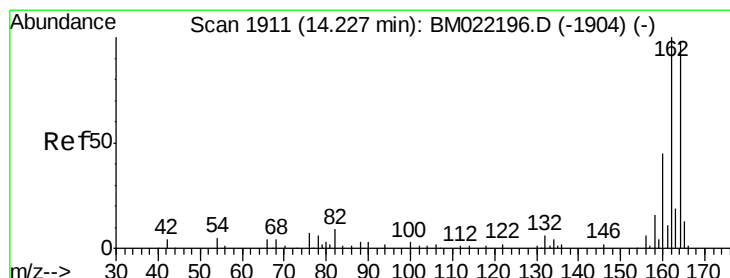
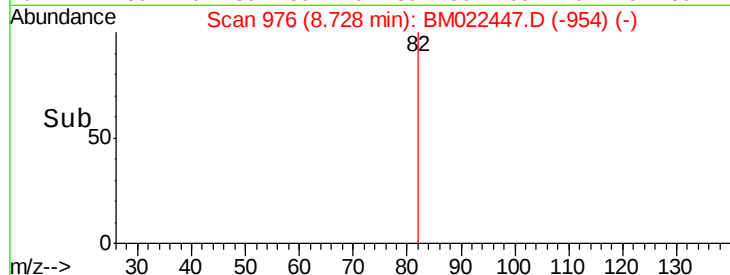
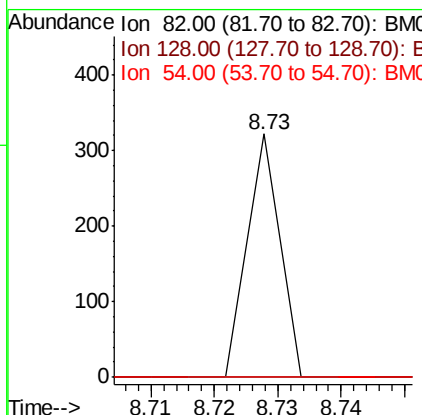
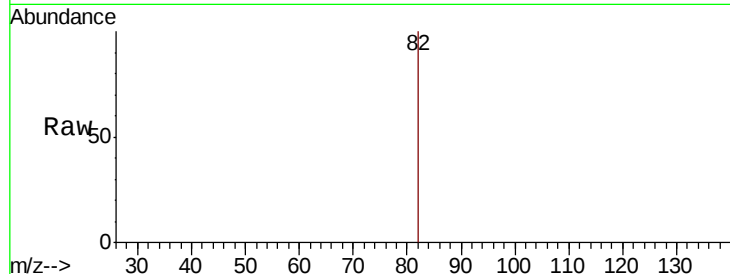




#23
 Nitrobenzene-d5
 Concen: 0.085 ng
 RT: 8.73 min Scan# 976
 Delta R.T. 0.03 min
 Lab File: BM022447.D
 Acq: 30 Aug 2019 18:54

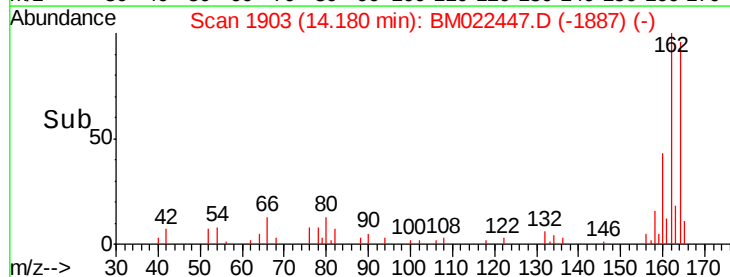
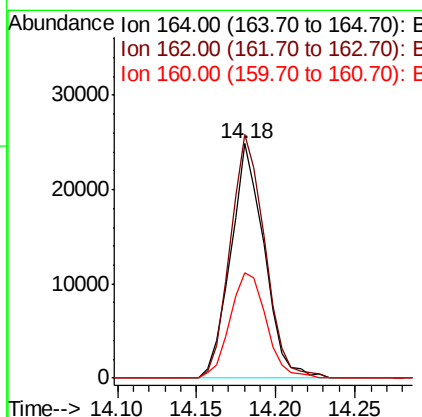
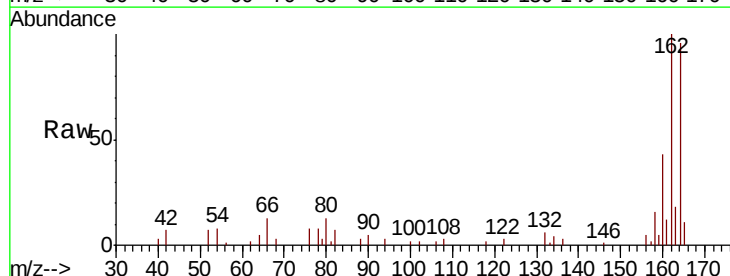
Instrument :
 BNA_M
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
82	100		
128	0.0	27.9	41.9#
54	0.0	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: BM022447.D
 Acq: 30 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	80.6	121.0
160	45.0	37.3	55.9

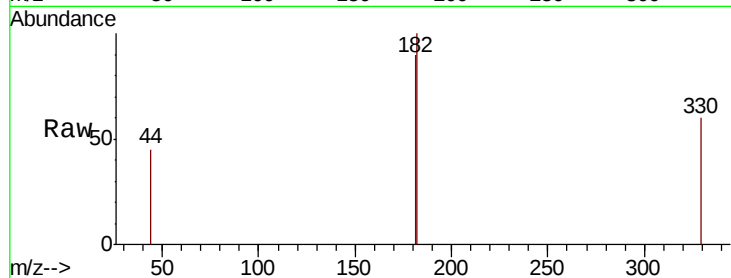




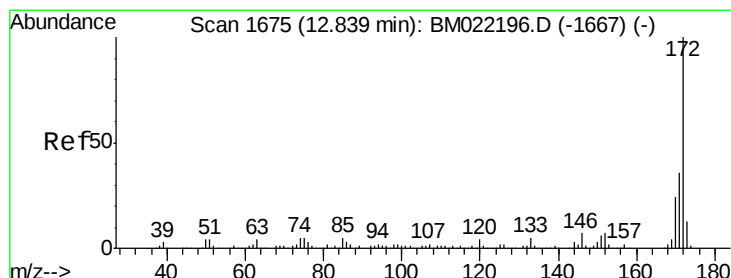
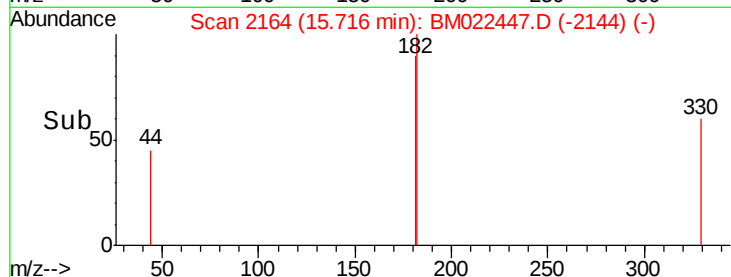
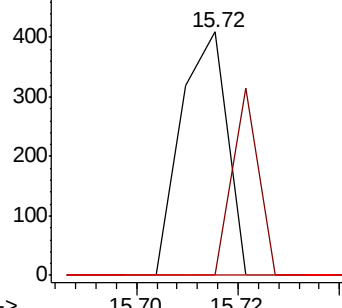
#42
 2,4,6-Tribromophenol
 Concen: 0.343 ng
 RT: 15.72 min Scan# 2164
 Delta R.T. 0.02 min
 Lab File: BM022447.D
 Acq: 30 Aug 2019 18:54

Instrument :
 BNA_M
 ClientSampled :

Tot Ion:330 Resp: 257
 Ion Ratio Lower Upper
 330 100
 332 43.2 77.8 116.8#
 141 0.0 35.6 53.4#

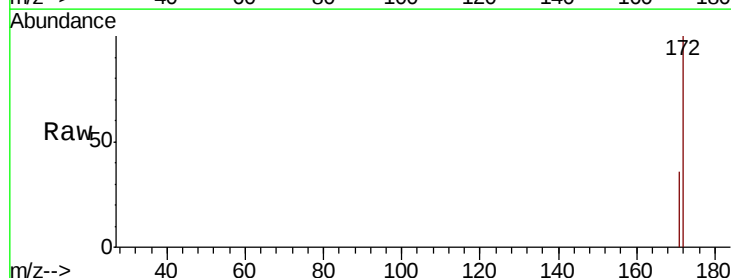


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

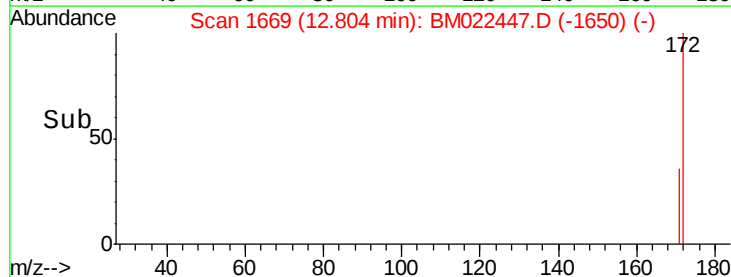
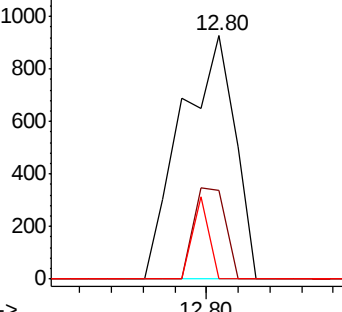


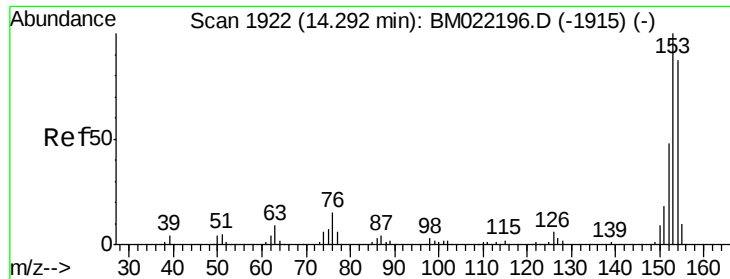
#45
 2-Fluorobiphenyl
 Concen: 0.336 ng
 RT: 12.80 min Scan# 1669
 Delta R.T. 0.01 min
 Lab File: BM022447.D
 Acq: 30 Aug 2019 18:54

Tgt Ion:172 Resp: 1086
 Ion Ratio Lower Upper
 172 100
 171 36.5 28.5 42.7
 170 0.0 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





#52

Acenaphthene

Concen: 2.449 ng

RT: 14.25 min Scan# 1915

Delta R.T. -0.00 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

Instrument :

BNA_M

ClientSampleId :

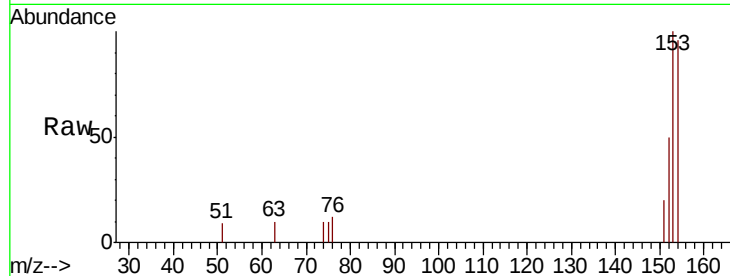
Tot Ion:154 Resp: 5267

Ion Ratio Lower Upper

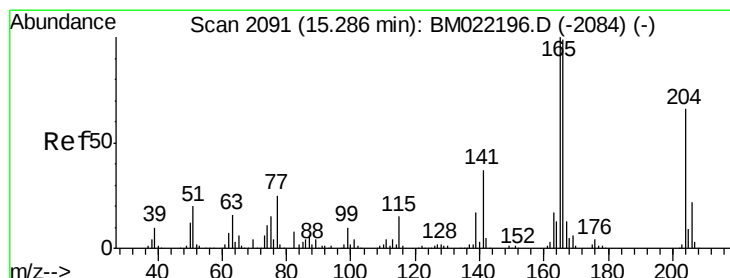
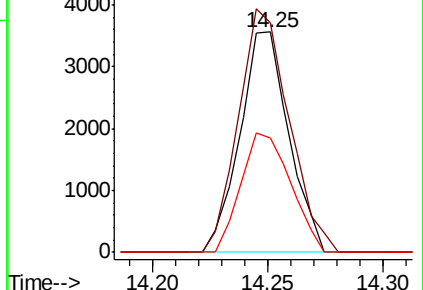
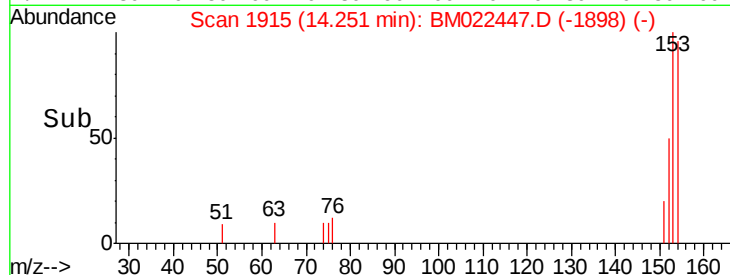
154 100

153 104.1 94.3 141.5

152 52.0 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



#58

Fluorene

Concen: 2.247 ng

RT: 15.25 min Scan# 2085

Delta R.T. -0.00 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

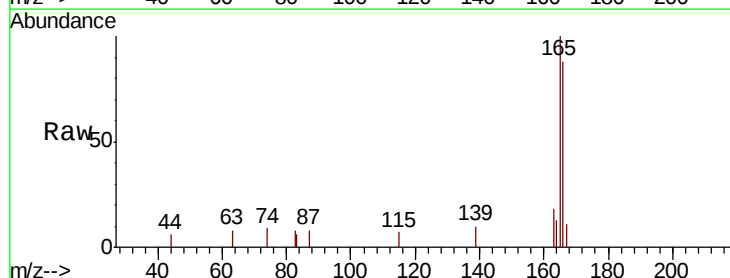
Tgt Ion:166 Resp: 7272

Ion Ratio Lower Upper

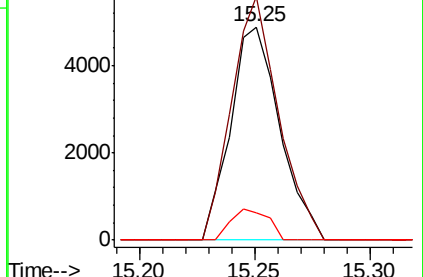
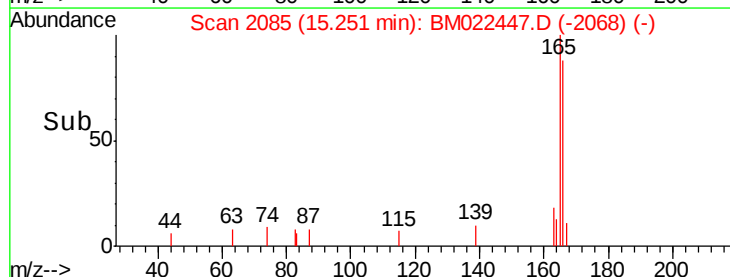
166 100

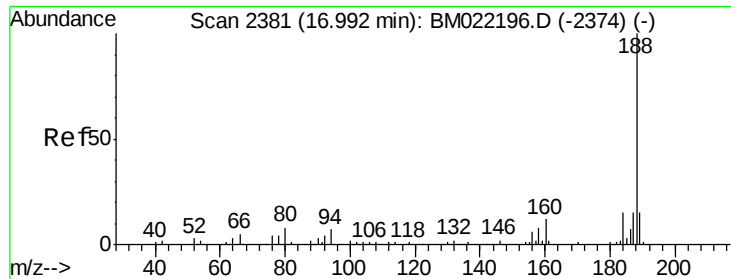
165 114.3 81.1 121.7

167 13.0 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

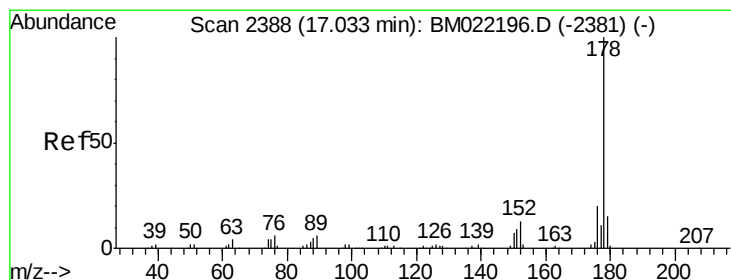
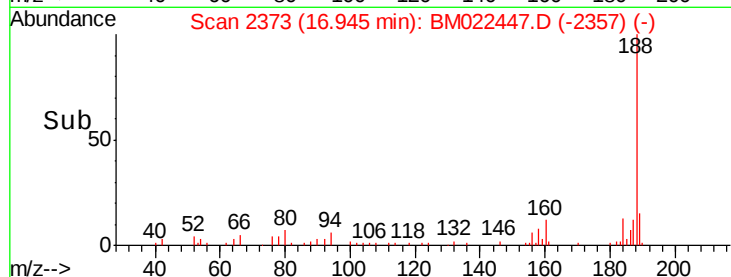
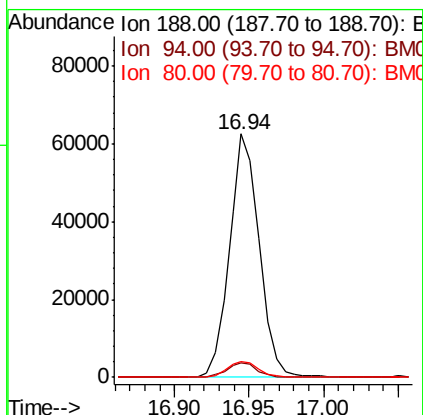
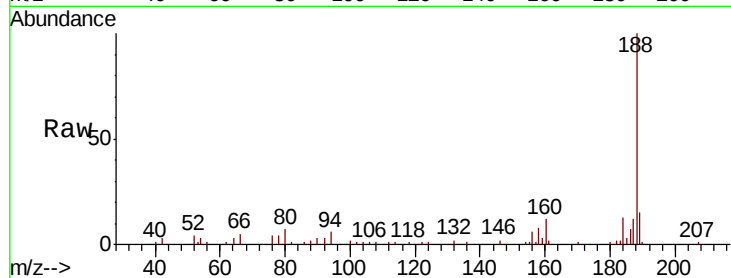




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.94 min Scan# 2373
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

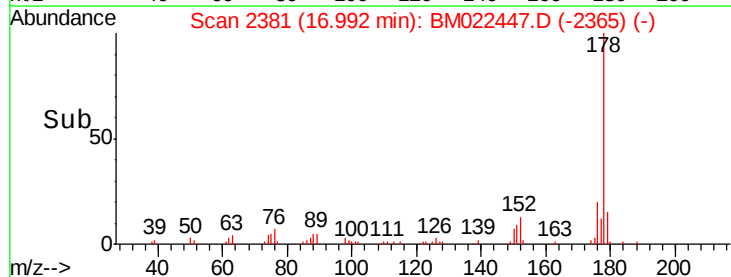
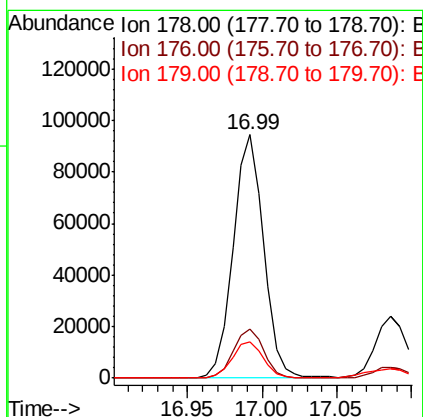
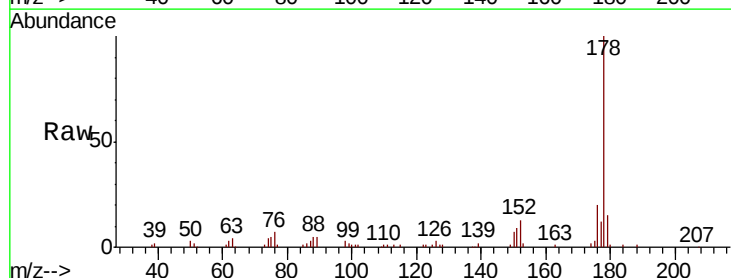
Instrument :
BNA_M
ClientSampleId :

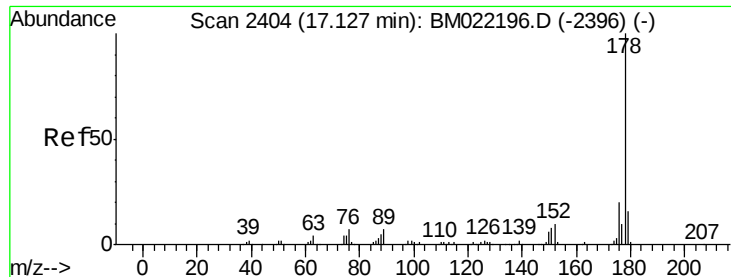
Tot Ion:188 Resp: 87051
Ion Ratio Lower Upper
188 100
94 5.9 4.4 6.6
80 6.5 5.0 7.6



#71
Phenanthrene
Concen: 26.453 ng
RT: 16.99 min Scan# 2381
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Tgt Ion:178 Resp: 134229
Ion Ratio Lower Upper
178 100
176 20.3 15.4 23.2
179 15.0 12.3 18.5





#72

Anthracene

Concen: 6.841 ng

RT: 17.09 min Scan# 2397

Delta R.T. -0.01 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

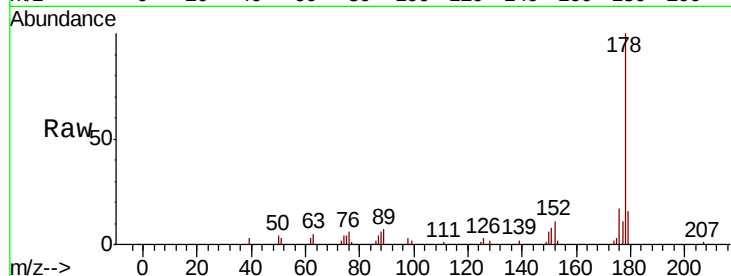
Instrument :

BNA_M

ClientSampled :

Tot Ion:178 Resp: 34154

Ion	Ratio	Lower	Upper
178	100		
176	17.3	15.0	22.4
179	16.0	11.8	17.6



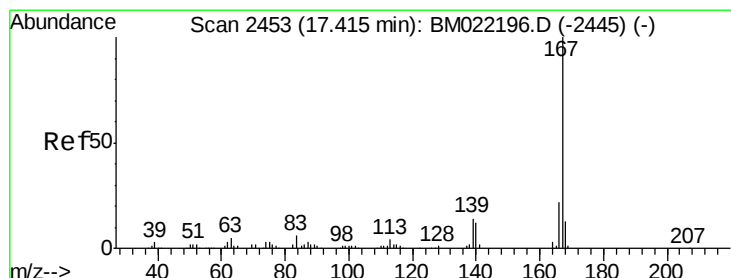
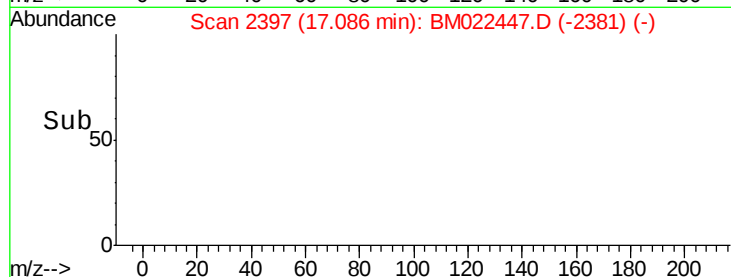
Abundance

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

Time-->



#73

Carbazole

Concen: 3.670 ng

RT: 17.38 min Scan# 2447

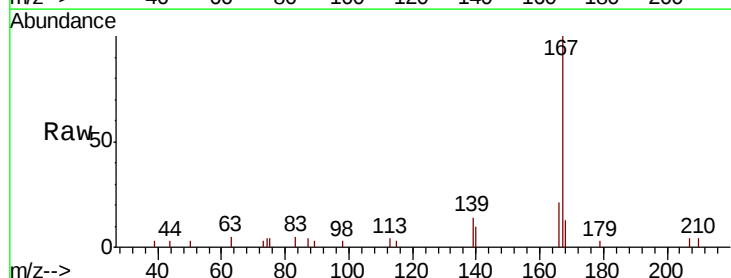
Delta R.T. -0.00 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

Tgt Ion:167 Resp: 15145

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.8	26.6
139	14.5	11.6	17.4



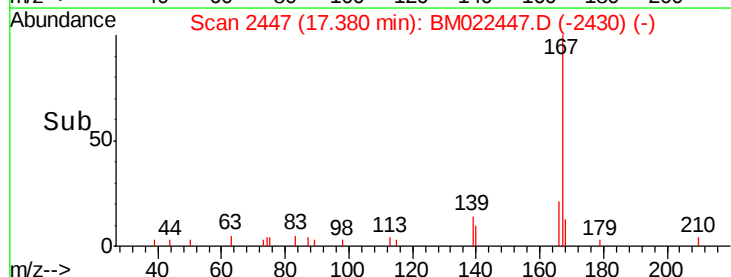
Abundance

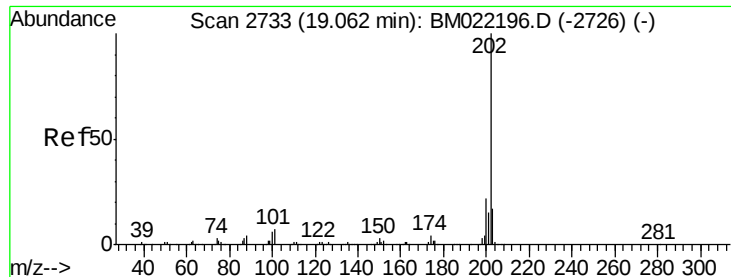
Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->





#75

Fluoranthene

Concen: 47.131 ng

RT: 19.02 min Scan# 2726

Delta R.T. -0.01 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

Instrument :

BNA_M

ClientSampleId :

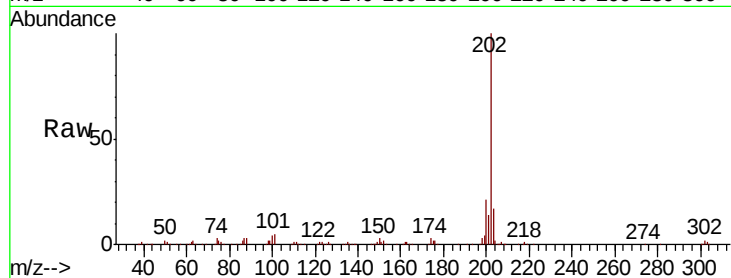
Tot Ion:202 Resp: 318482

Ion Ratio Lower Upper

202 100

101 5.3 0.0 25.1

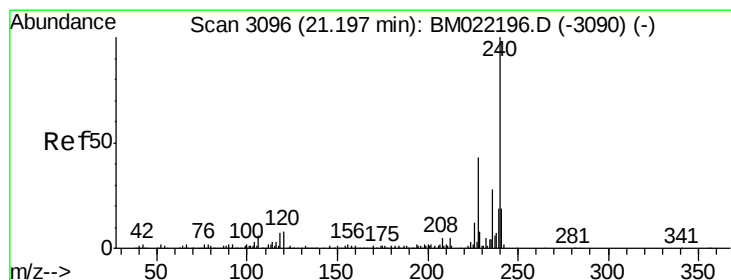
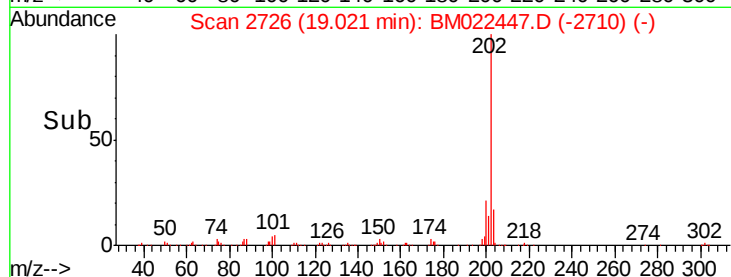
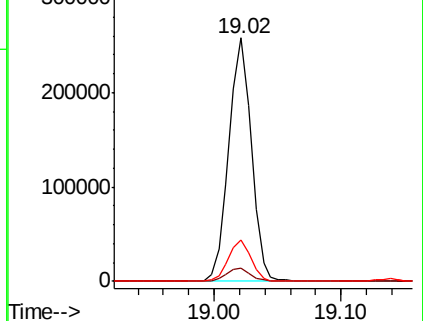
203 17.1 0.0 37.1



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: 21.16 min Scan# 3090

Delta R.T. -0.01 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

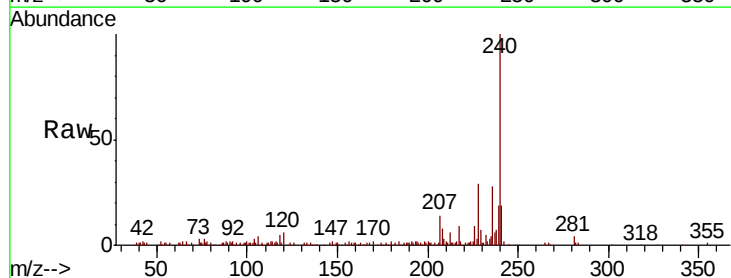
Tgt Ion:240 Resp: 129723

Ion Ratio Lower Upper

240 100

120 5.8 3.9 5.9

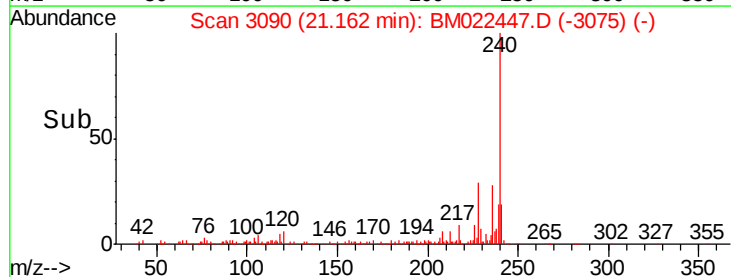
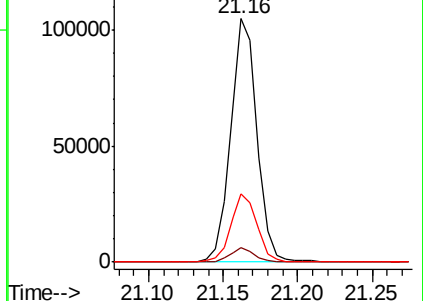
236 28.2 21.4 32.2

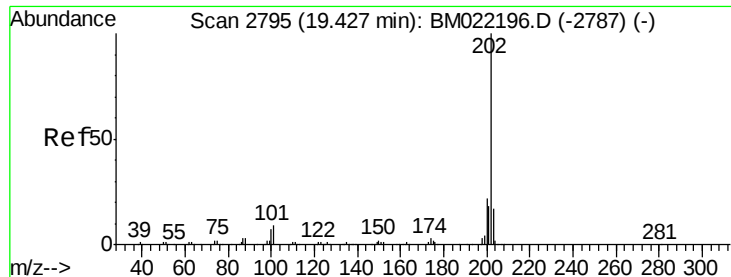


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

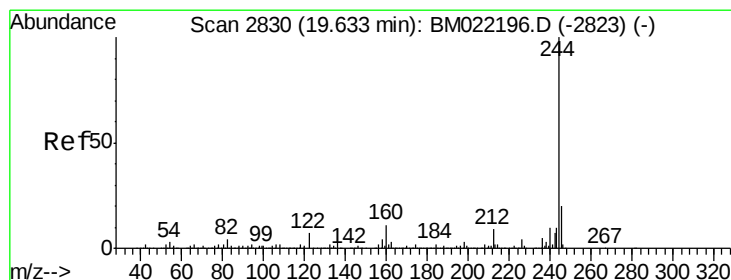
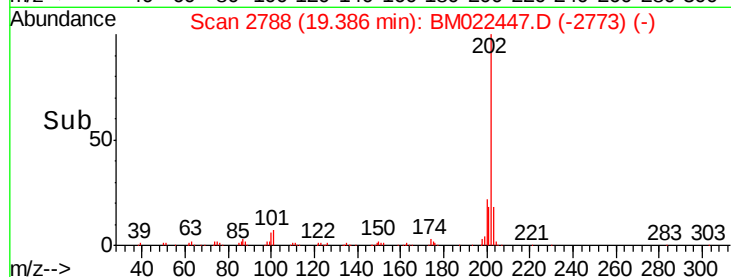
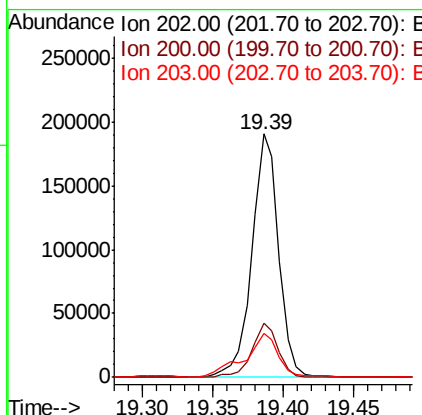
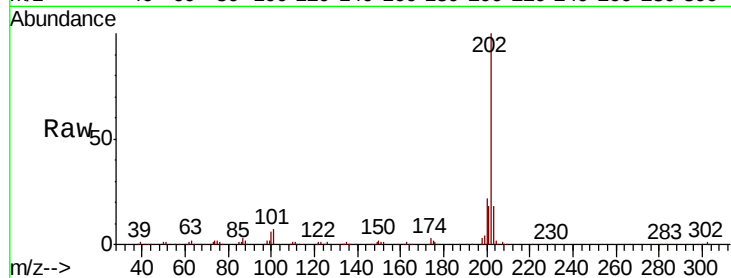




#78
Pvrene
Concen: 28.767 ng
RT: 19.39 min Scan# 2788
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

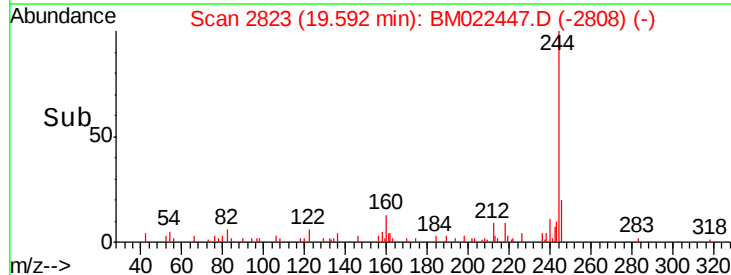
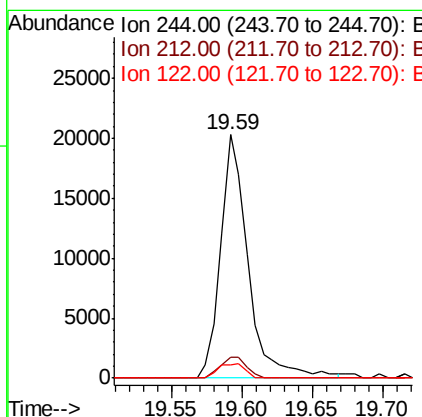
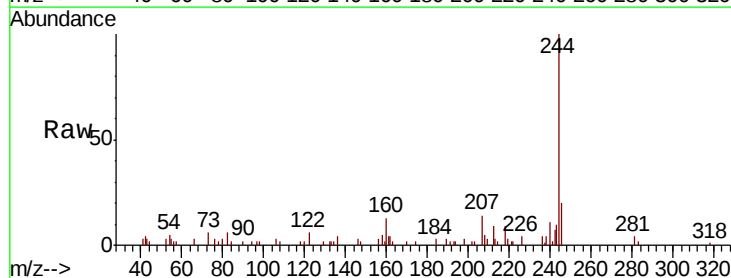
Instrument :
BNA_M
ClientSampleId :

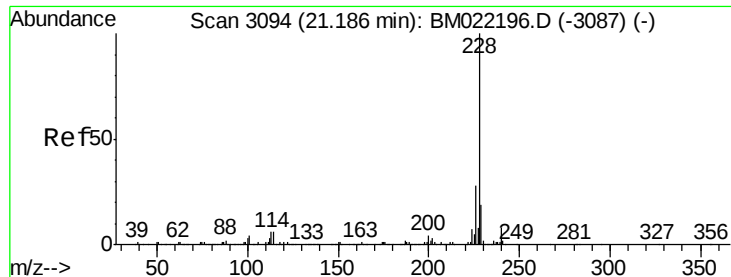
Tot Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.7	26.5
203	18.2	13.8	20.8



#79
Terphenyl-d14
Concen: 2.804 ng
RT: 19.59 min Scan# 2823
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.7	7.0	10.4
122	5.6	3.9	5.9





#81

Benzo(a)anthracene

Concen: 16.706 ng

RT: 21.15 min Scan# 3088

Delta R.T. -0.01 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

Instrument :

BNA_M

ClientSampled :

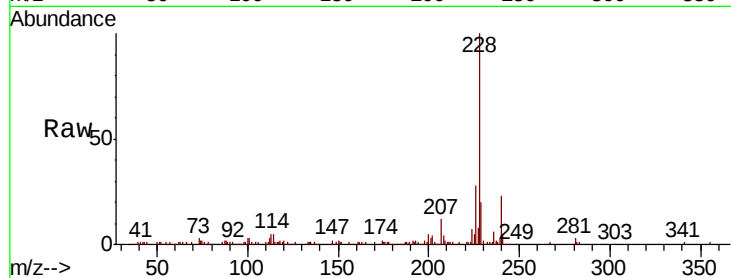
Tot Ion:228 Resp: 155551

Ion Ratio Lower Upper

228 100

226 27.7 22.6 34.0

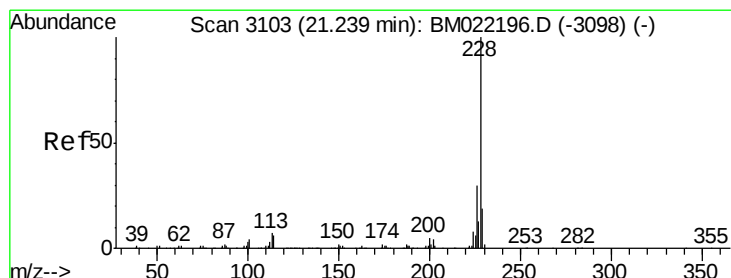
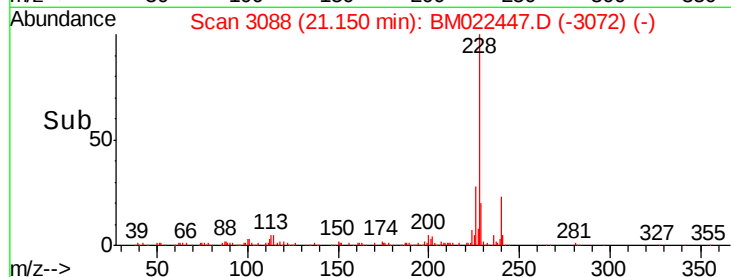
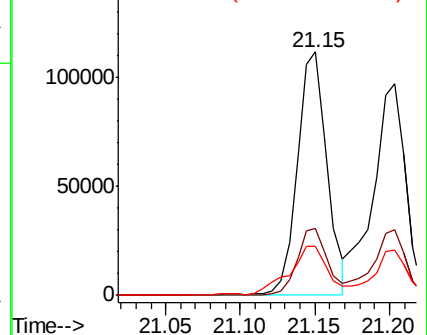
229 20.0 15.9 23.9



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: 15.590 ng

RT: 21.20 min Scan# 3097

Delta R.T. -0.01 min

Lab File: BM022447.D

Acq: 30 Aug 2019 18:54

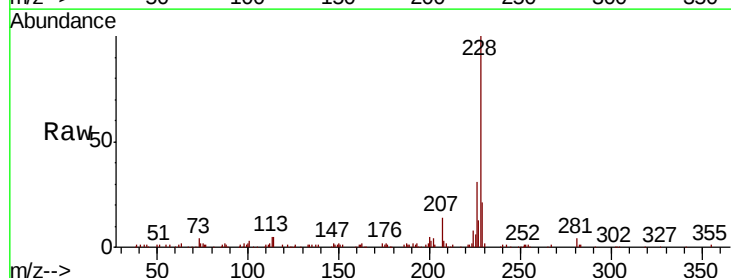
Tgt Ion:228 Resp: 138170

Ion Ratio Lower Upper

228 100

226 31.3 24.5 36.7

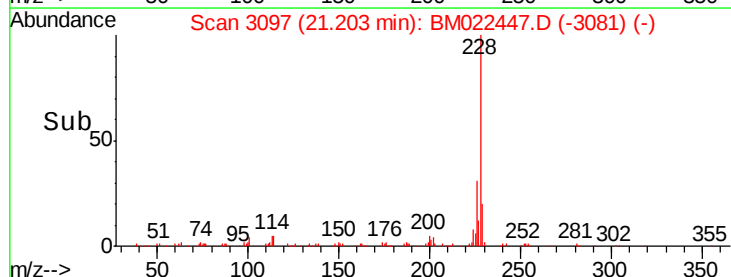
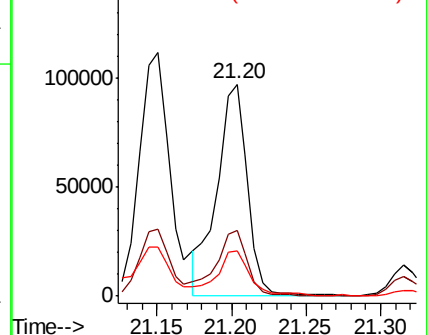
229 21.3 15.7 23.5

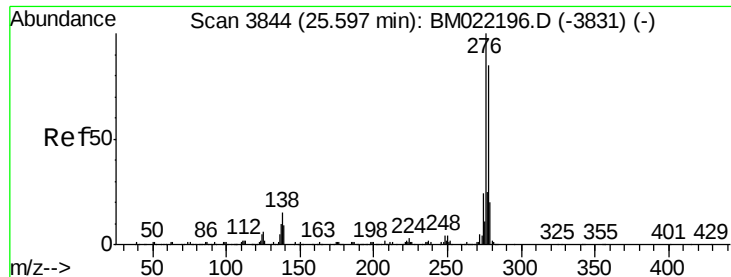


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

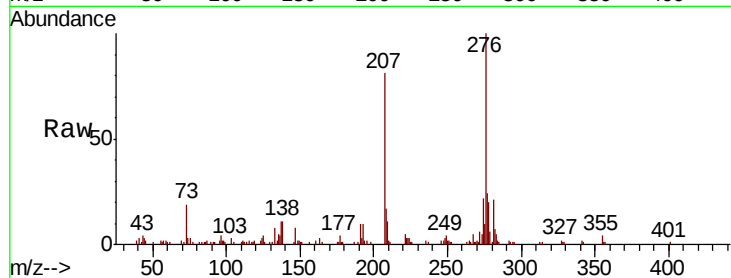




#86
Indeno(1,2,3-cd)pyrene
Concen: 10.980 ng
RT: 25.53 min Scan# 3832
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Instrument :
BNA_M
ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	12.4	9.1	13.7
277	25.4	20.0	30.0

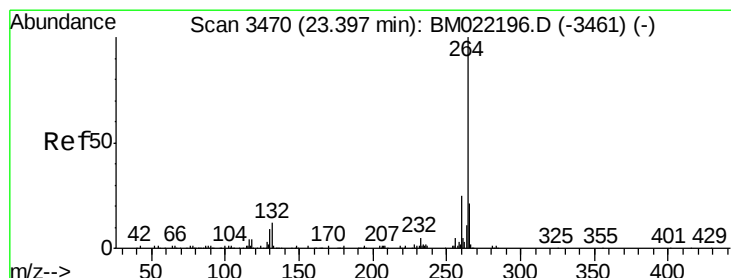
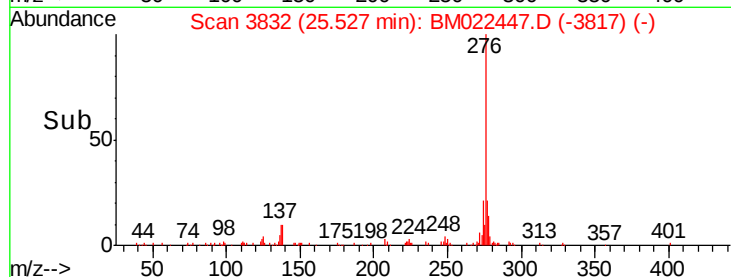
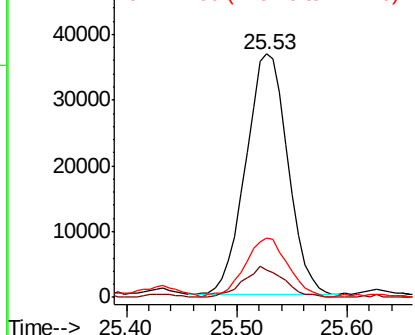


Abundance

Ion 276.00 (275.70 to 276.70): E

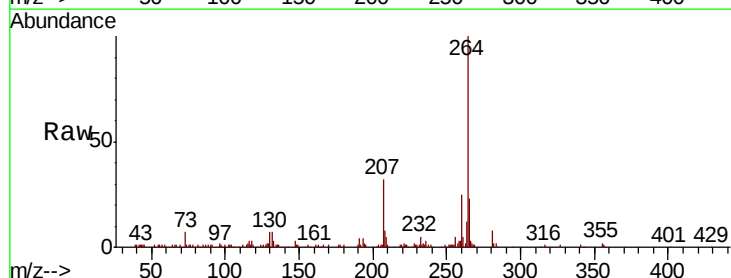
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 23.35 min Scan# 3462
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.2	30.2
265	22.6	18.2	27.2

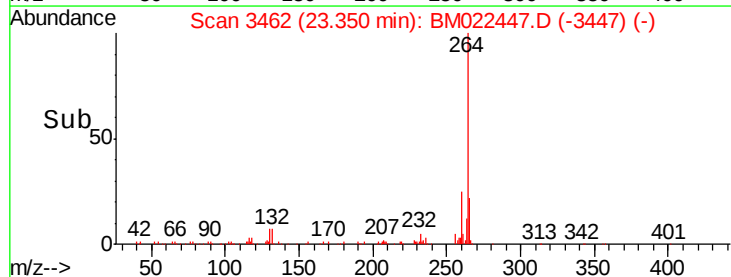
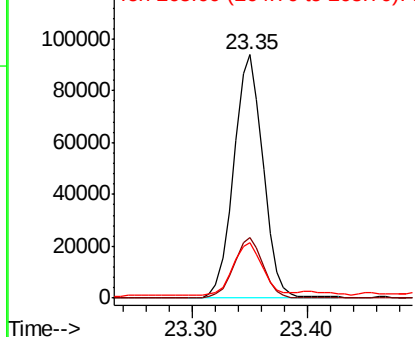


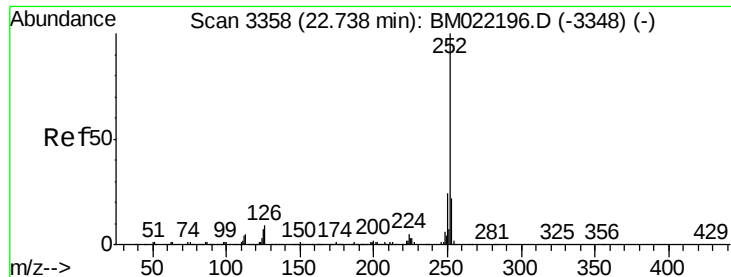
Abundance

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

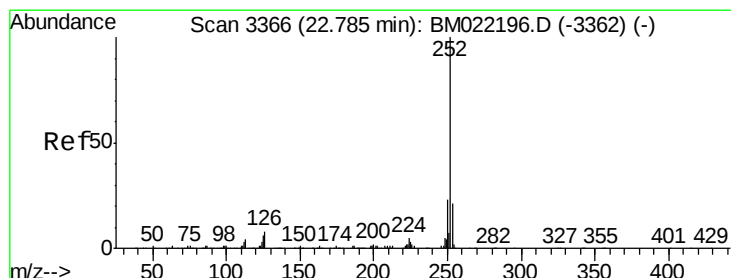
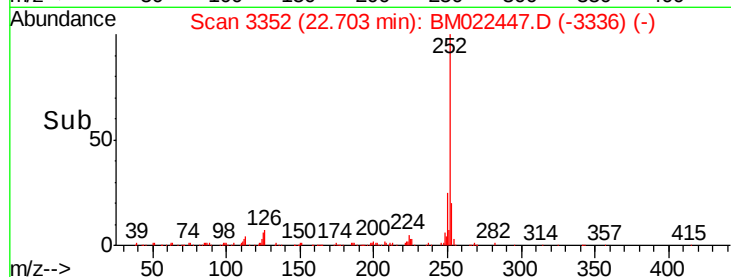
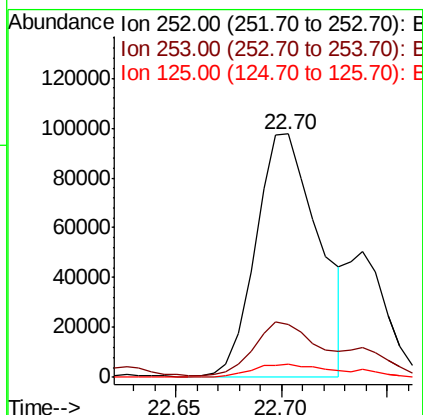
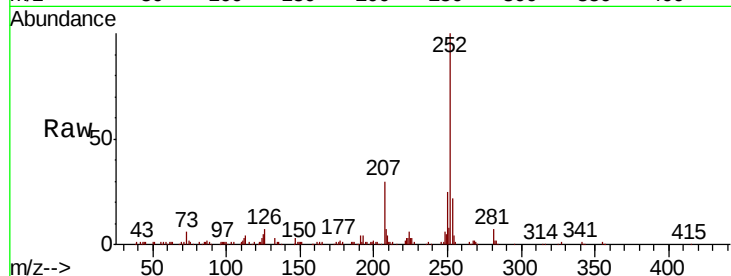




#88
Benzo(b)fluoranthene
Concen: 17.456 ng
RT: 22.70 min Scan# 3352
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

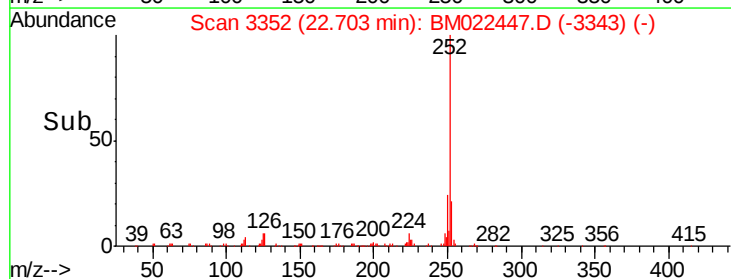
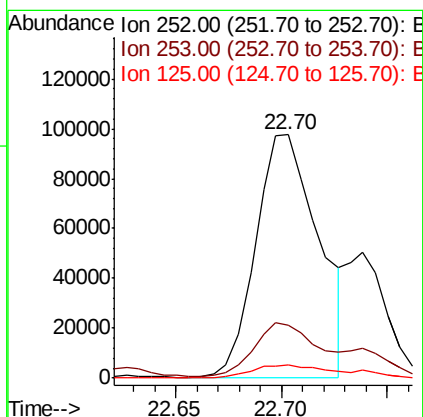
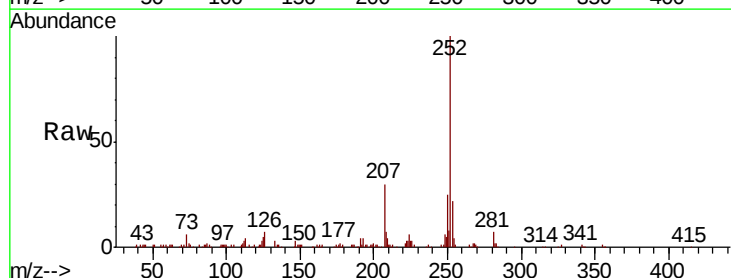
Instrument :
BNA_M
ClientSampleId :

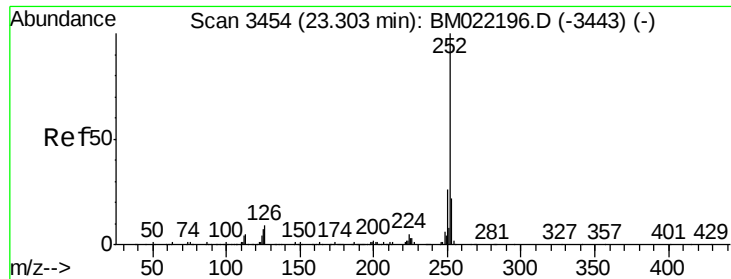
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	5.5	3.5	5.3#



#89
Benzo(k)fluoranthene
Concen: 17.597 ng
RT: 22.70 min Scan# 3352
Delta R.T. -0.05 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.4
125	5.5	3.7	5.5

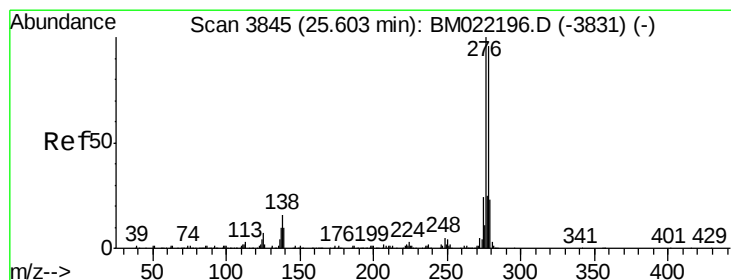
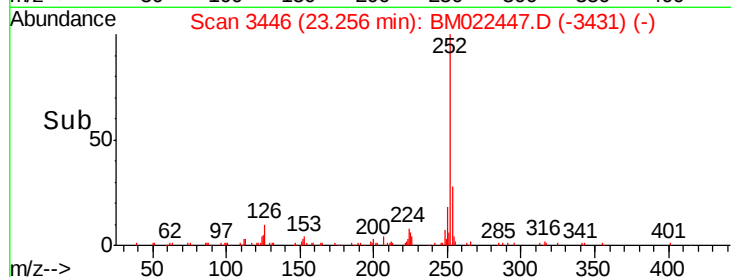
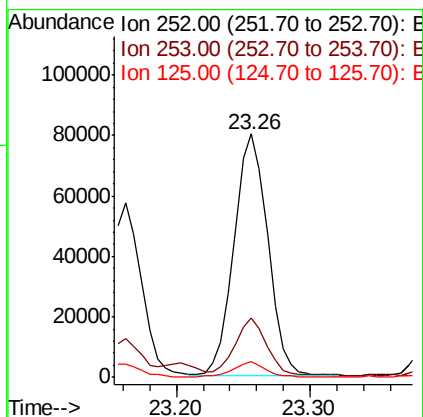
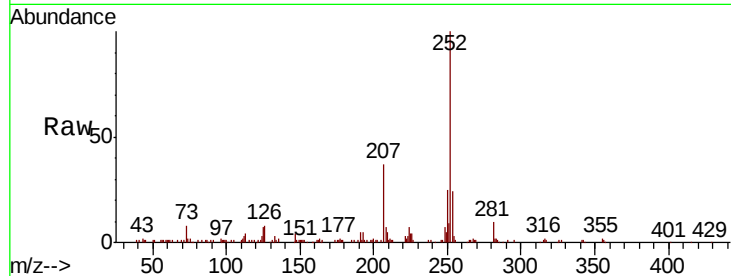




#90
Benzo(a)pyrene
Concen: 13.671 ng
RT: 23.26 min Scan# 3446
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

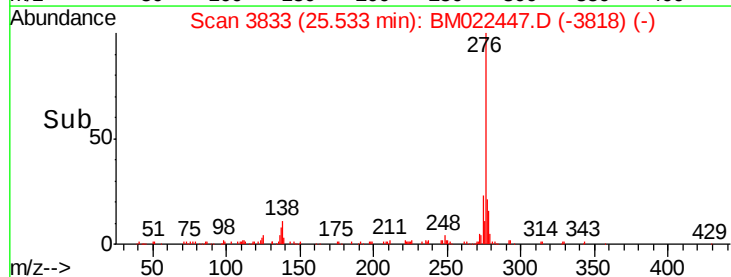
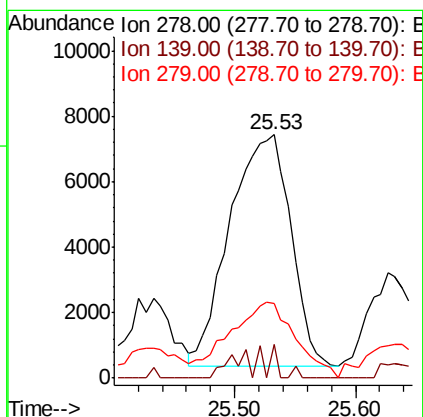
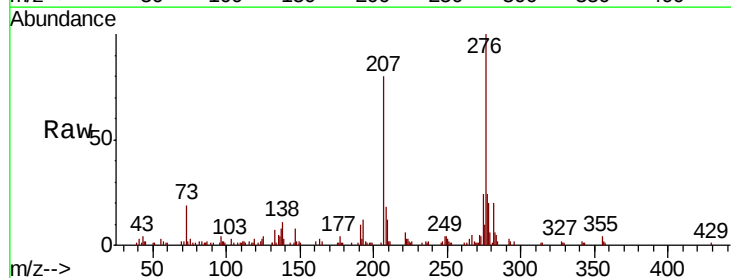
Instrument :
BNA_M
ClientSampleId :

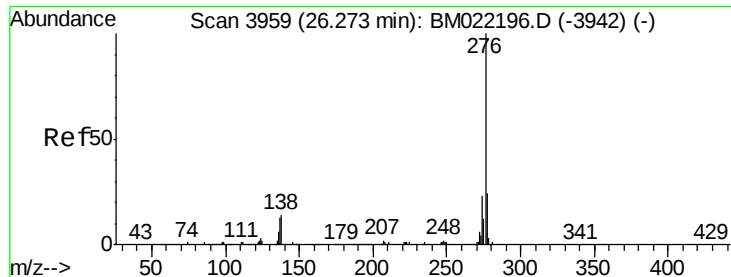
Tot Ion:252 Resp: 139613
Ion Ratio Lower Upper
252 100
253 24.3 18.2 27.2
125 6.6 3.8 5.8#



#91
Dibenzo(a,h)anthracene
Concen: 2.429 ng
RT: 25.53 min Scan# 3833
Delta R.T. -0.01 min
Lab File: BM022447.D
Acq: 30 Aug 2019 18:54

Tgt Ion:278 Resp: 24739
Ion Ratio Lower Upper
278 100
139 13.9 6.6 9.8#
279 30.6 19.3 28.9#





#92
 Benzo(a,h,i)perylene
 Concen: 11.302 ng
 RT: 26.20 min Scan# 3946
 Delta R.T. -0.02 min
 Lab File: BM022447.D
 Acq: 30 Aug 2019 18:54

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:276	Resp:	100309
Ion Ratio	Lower	Upper
276	100	
277	25.8	19.4 29.0
138	10.6	8.8 13.2

