

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
 Data File : BM022776.D
 Acq On : 25 Sep 2019 17:53
 Operator : JU
 Sample : K4997-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Sep 26 06:01:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM092019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 20 16:34:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	214451	20.00	ng	0.00
21) Naphthalene-d8	10.61	136	793901	20.00	ng	-0.01
39) Acenaphthene-d10	14.46	164	446559	20.00	ng	0.00
64) Phenanthrene-d10	17.19	188	885083	20.00	ng	0.00
76) Chrysene-d12	21.37	240	918245	20.00	ng	0.00
87) Perylene-d12	23.64	264	1072317	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	1304220	96.45	ng	0.00
7) Phenol-d6	6.99	99	1736638	100.00	ng	0.00
23) Nitrobenzene-d5	8.97	82	998543	69.82	ng	0.00
42) 2,4,6-Tribromophenol	15.94	330	632930	113.54	ng	0.00
45) 2-Fluorobiphenyl	13.07	172	2396357	73.90	ng	-0.01
79) Terphenyl-d14	19.82	244	3379036	71.26	ng	0.00

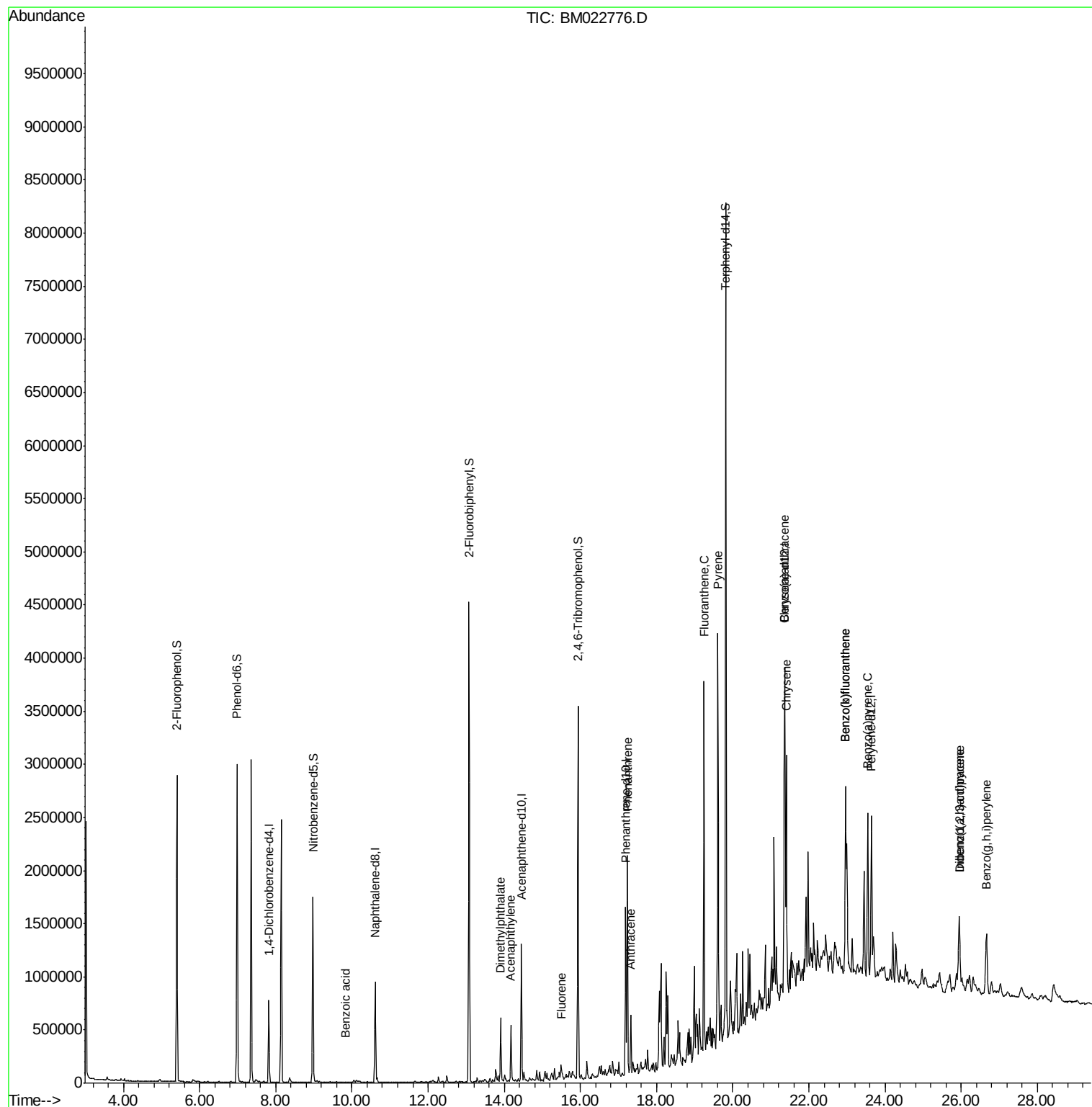
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Benzoic acid	9.83	122	949	4.049	ng	# 79
49) Acenaphthylene	14.17	152	380345	9.324	ng	99
50) Dimethylphthalate	13.91	163	337863	10.469	ng	99
58) Fluorene	15.50	166	70071	2.213	ng	# 94
71) Phenanthrene	17.23	178	1233401	24.697	ng	100
72) Anthracene	17.32	178	358382	7.404	ng	99
75) Fluoranthene	19.25	202	1955708	34.703	ng	98
78) Pyrene	19.61	202	2308893	38.369	ng	99
81) Benzo(a)anthracene	21.36	228	1085784	18.245	ng	92
83) Chrysene	21.41	228	1182951	20.503	ng	98
86) Indeno(1,2,3-cd)pyrene	25.95	276	671820	9.756	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	1711578	26.362	ng	98
89) Benzo(k)fluoranthene	22.96	252	1710730	26.555	ng	98
90) Benzo(a)pyrene	23.54	252	1019473	17.041	ng	98
91) Dibenzo(a,h)anthracene	25.96	278	186430	2.979	ng	# 89
92) Benzo(g,h,i)perylene	26.66	276	711075	11.963	ng	99

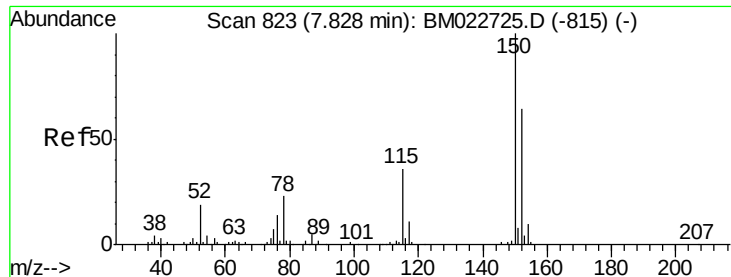
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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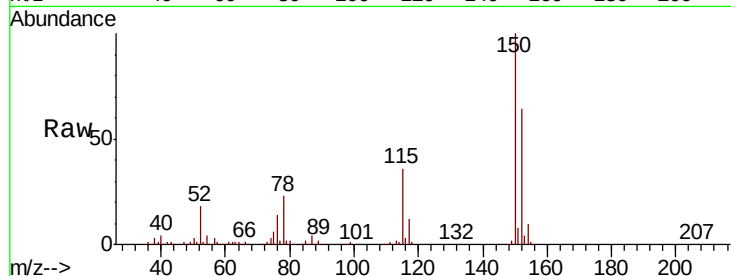


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.82 min Scan# 822
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.5	186.7
115	55.8	45.0	67.4

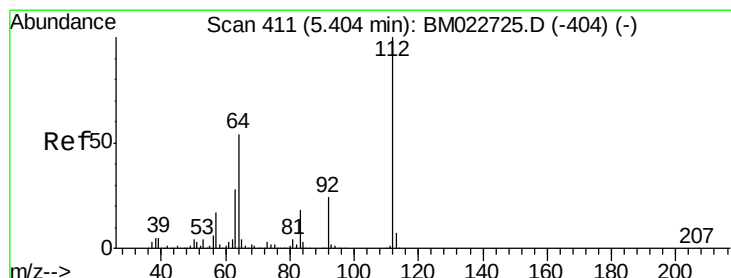
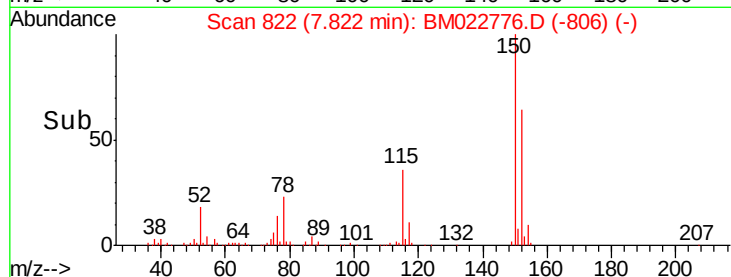
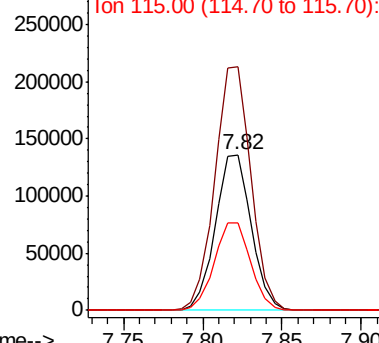


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

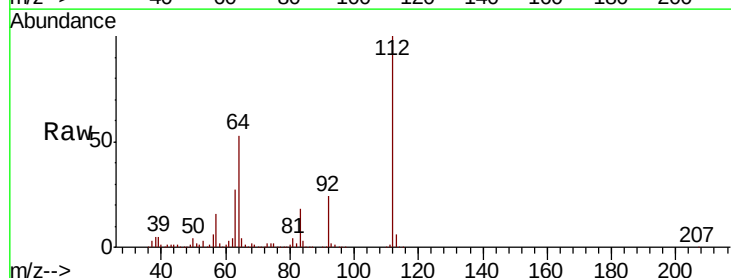
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 96.453 ng
RT: 5.40 min Scan# 411
Delta R.T. -0.00 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.7	43.4	65.2
63	27.0	22.1	33.1

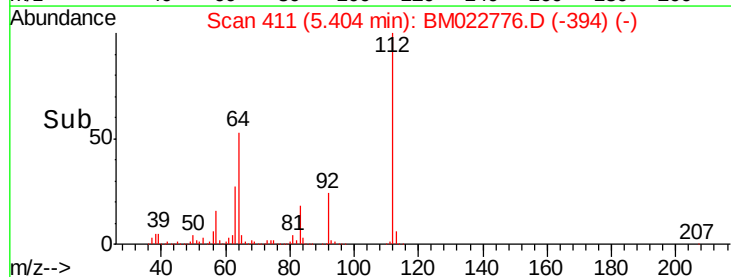
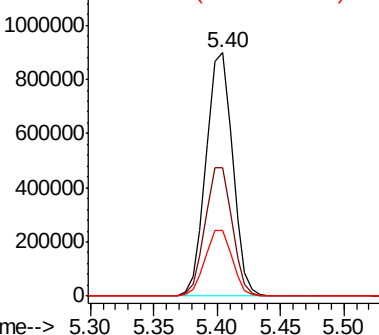


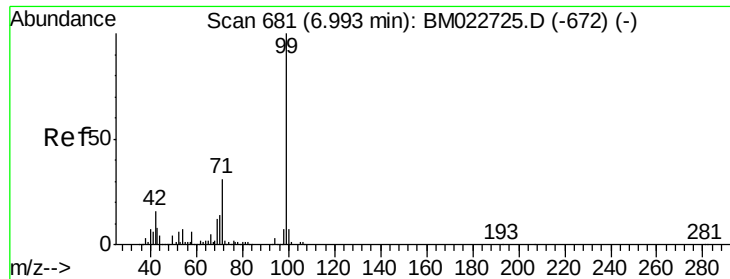
Abundance

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: 99.995 ng

RT: 6.99 min Scan# 680

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Instrument :

BNA_M

ClientSampleId :

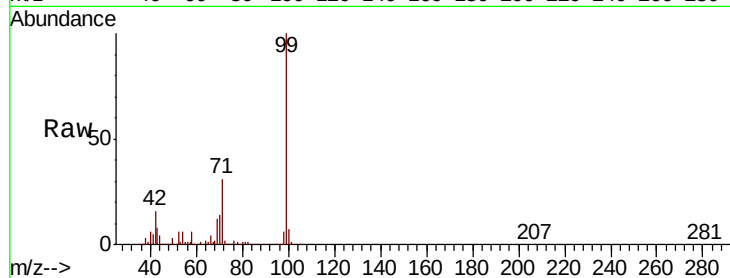
Tot Ion: 99 Resp: 1736638

Ion Ratio Lower Upper

99 100

42 15.8 13.0 19.4

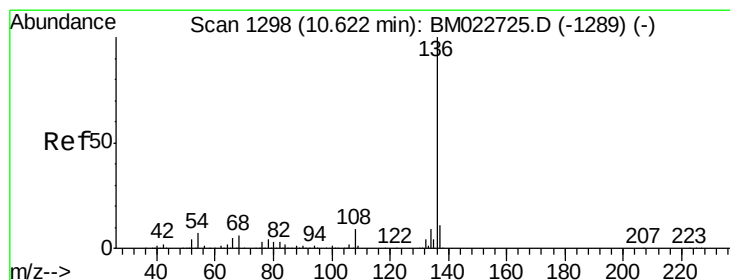
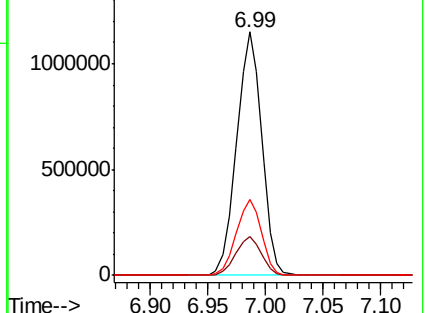
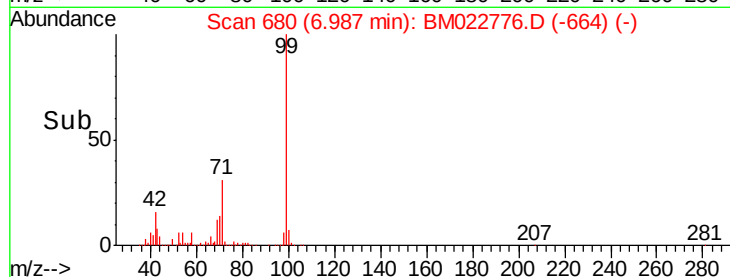
71 31.0 24.7 37.1



Abundance Ion 99.00 (98.70 to 99.70): BM022776.D (-664) (-)

Ion 42.00 (41.70 to 42.70): BM022776.D (-664) (-)

Ion 71.00 (70.70 to 71.70): BM022776.D (-664) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.61 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Tgt Ion: 136 Resp: 793901

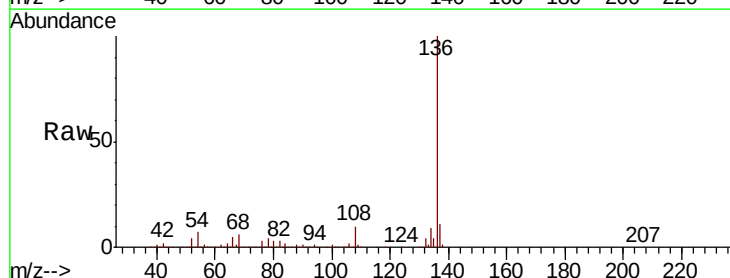
Ion Ratio Lower Upper

136 100

137 11.2 8.6 13.0

54 7.1 6.0 9.0

68 5.8 4.9 7.3

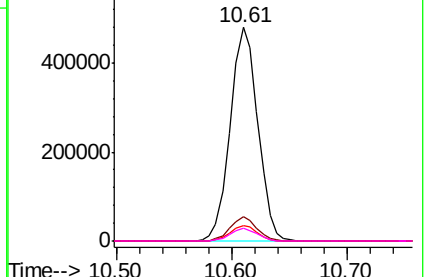
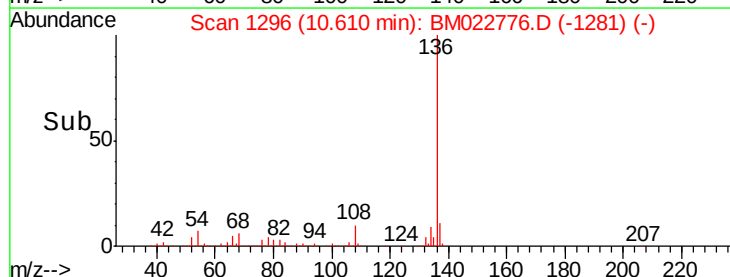


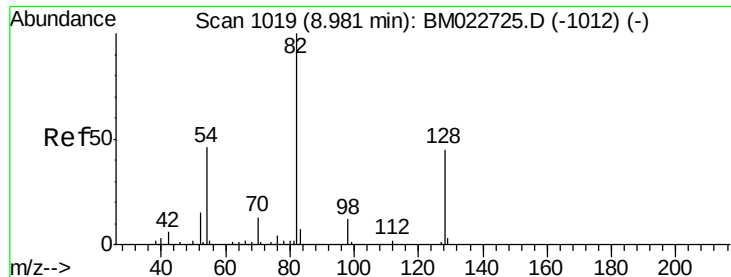
Abundance Ion 136.00 (135.70 to 136.70): BM022776.D (-1281) (-)

Ion 137.00 (136.70 to 137.70): BM022776.D (-1281) (-)

Ion 54.00 (53.70 to 54.70): BM022776.D (-1281) (-)

Ion 68.00 (67.70 to 68.70): BM022776.D (-1281) (-)

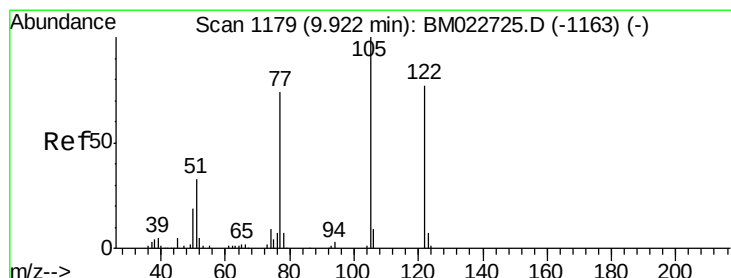
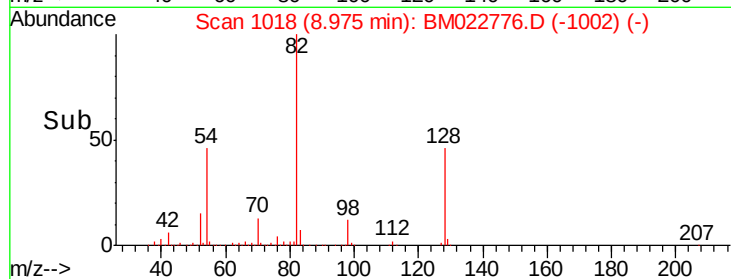
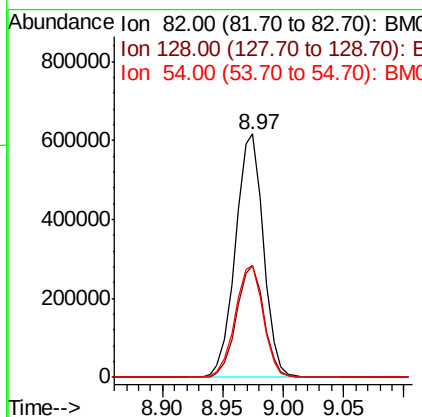
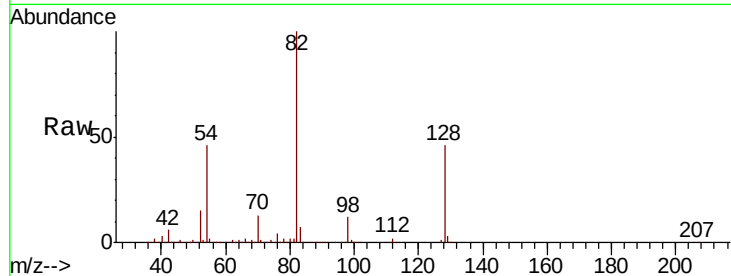




#23
 Nitrobenzene-d5
 Concen: 69.819 ng
 RT: 8.97 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: BM022776.D
 Acq: 25 Sep 2019 17:53

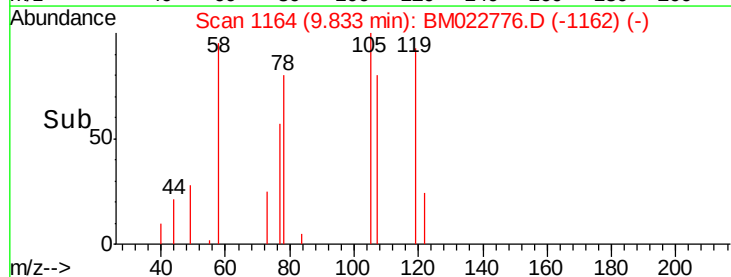
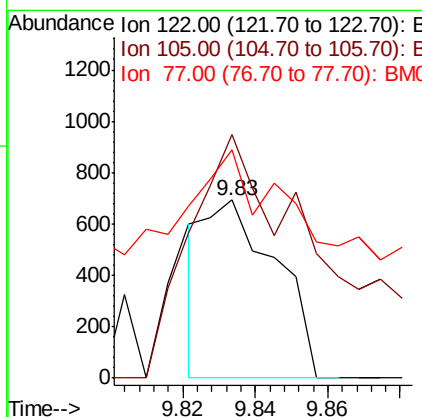
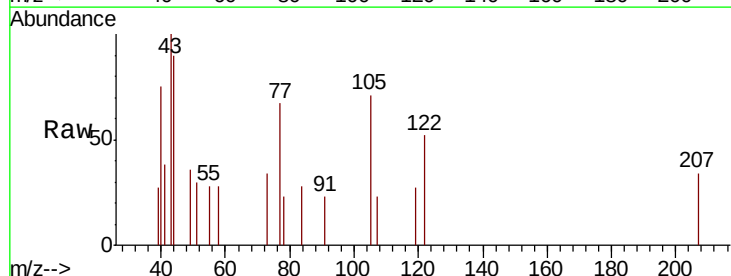
Instrument :
 BNA_M
 ClientSampleId :

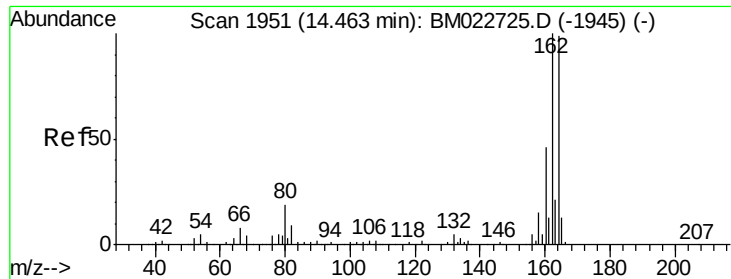
Tot Ion	82	Resp	998543
Ion Ratio	100		
128	45.8	36.0	54.0
54	45.8	37.1	55.7



#32
 Benzoic acid
 Concen: 4.049 ng
 RT: 9.83 min Scan# 1164
 Delta R.T. -0.09 min
 Lab File: BM022776.D
 Acq: 25 Sep 2019 17:53

Tgt Ion	122	Resp	949
Ion Ratio	100		
105	136.8	105.3	145.3
77	128.6	74.7	114.7#

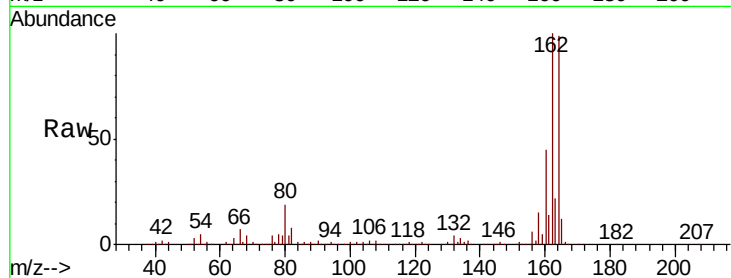




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.46 min Scan# 1950
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.1	121.7
160	45.2	36.9	55.3

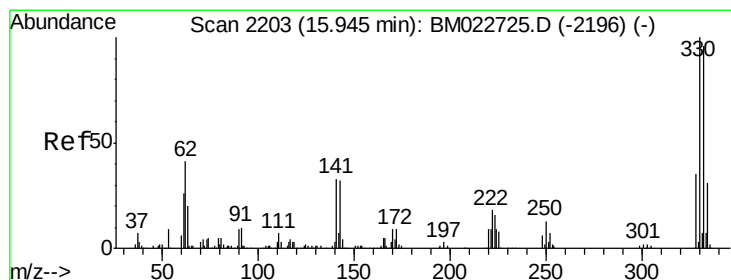
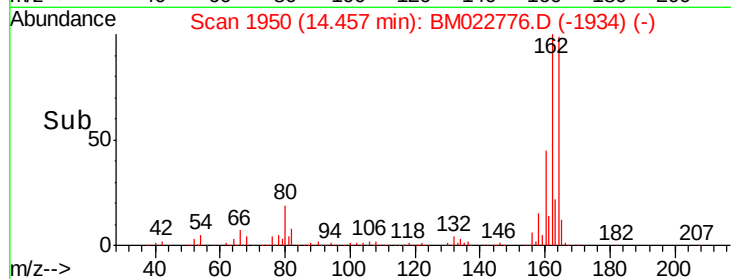
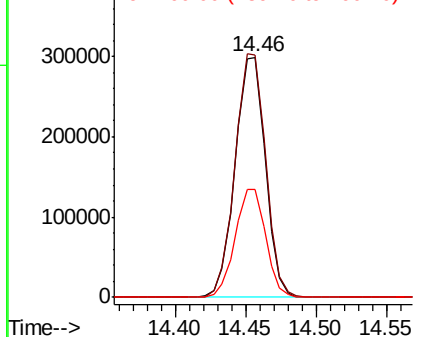


Abundance

Ion 164.00 (163.70 to 164.70): E

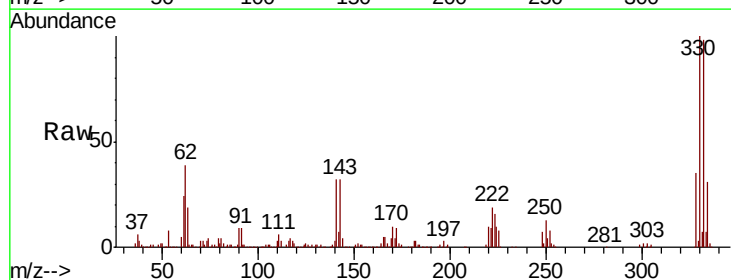
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 113.539 ng
RT: 15.94 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	33.9	28.6	42.8

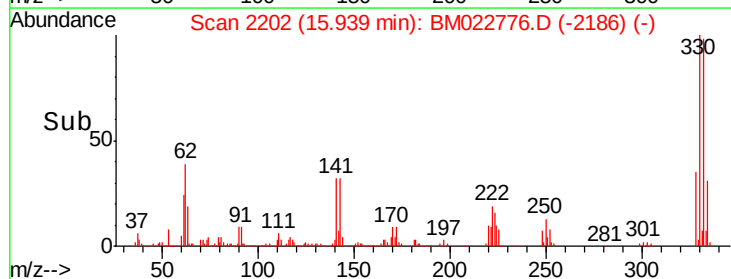
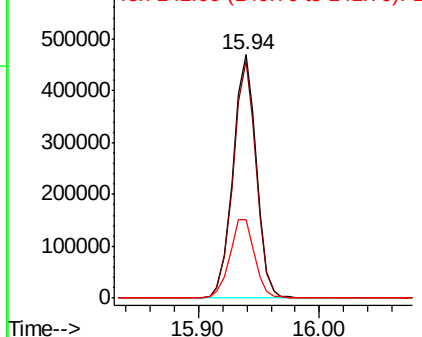


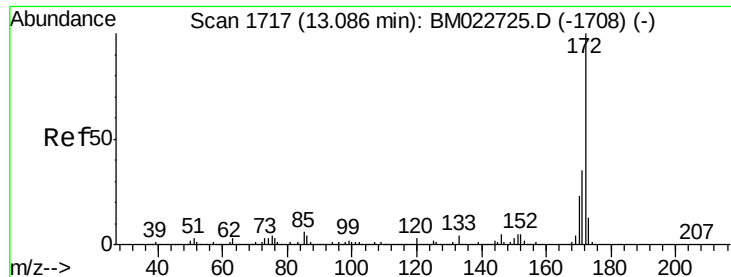
Abundance

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

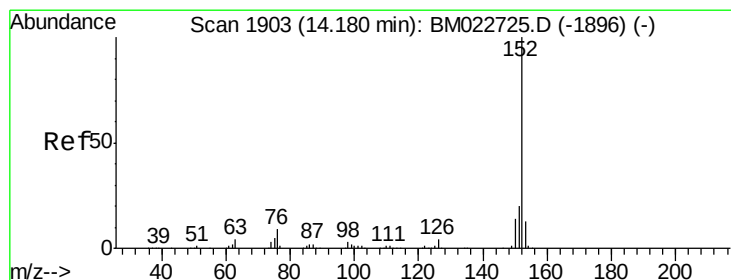
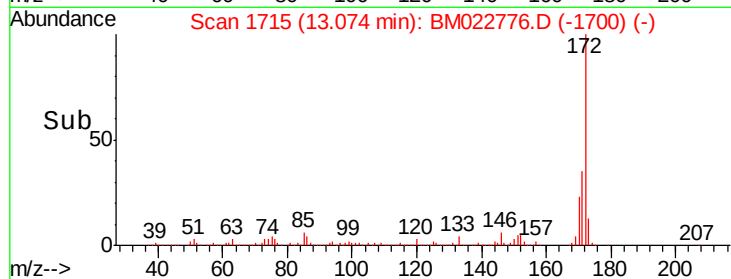
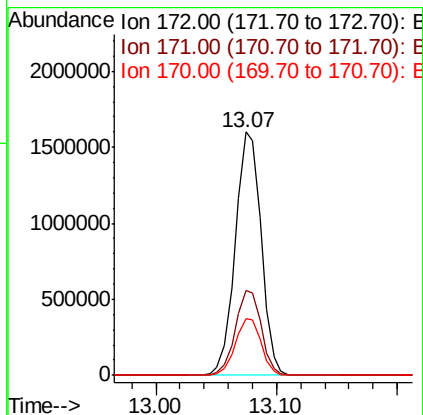
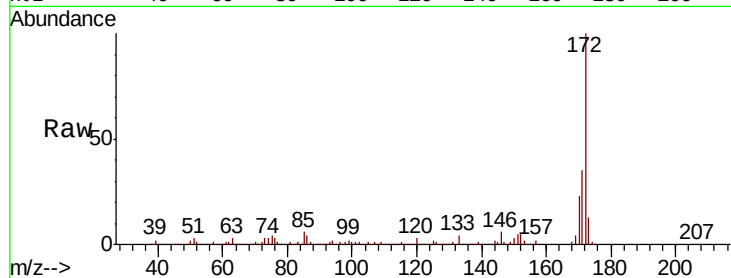




#45
2-Fluorobiphenyl
Concen: 73.896 ng
RT: 13.07 min Scan# 1715
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

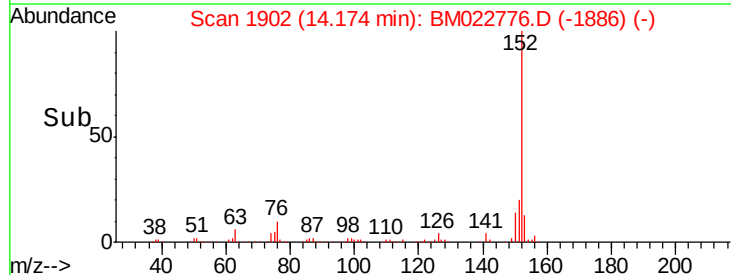
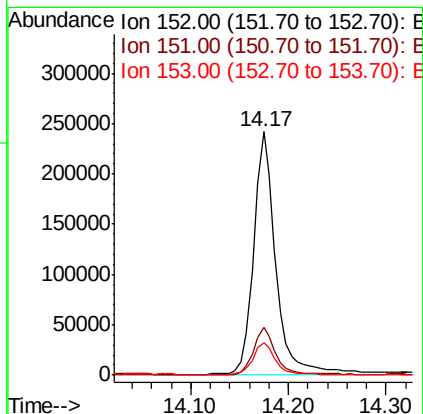
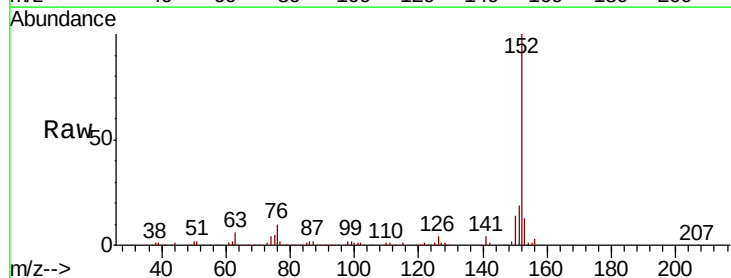
Instrument :
BNA_M
ClientSampleId :

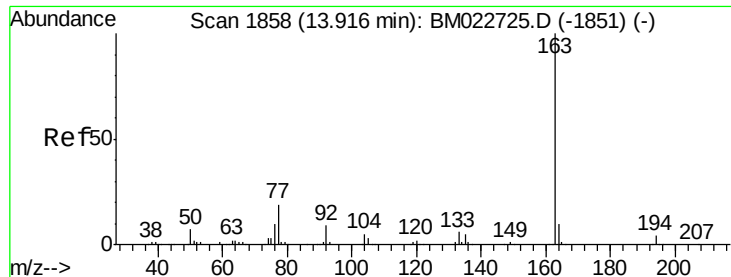
Tot Ion:172 Resp: 2396357
Ion Ratio Lower Upper
172 100
171 35.0 27.8 41.8
170 23.4 18.7 28.1



#49
Acenaphthylene
Concen: 9.324 ng
RT: 14.17 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Tgt Ion:152 Resp: 380345
Ion Ratio Lower Upper
152 100
151 19.5 15.9 23.9
153 13.2 10.5 15.7





#50

Dimethylphthalate

Concen: 10.469 ng

RT: 13.91 min Scan# 1857

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Instrument :

BNA_M

ClientSampleId :

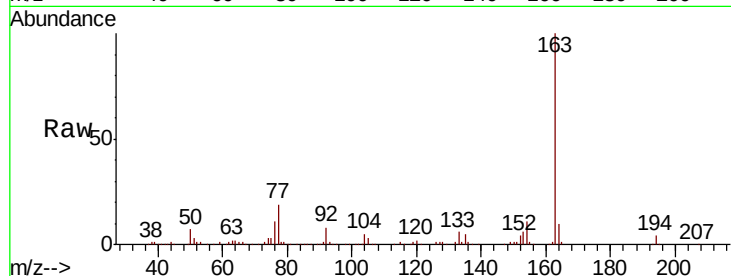
Tot Ion:163 Resp: 337863

Ion Ratio Lower Upper

163 100

194 4.2 3.3 4.9

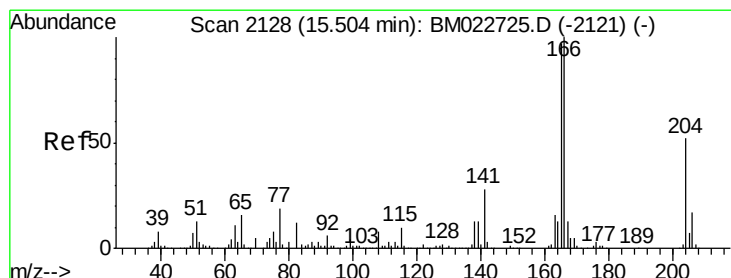
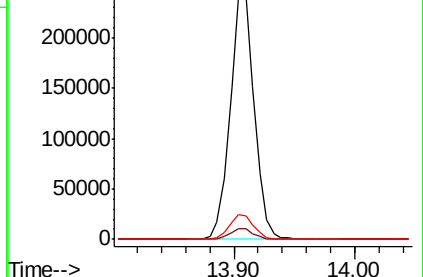
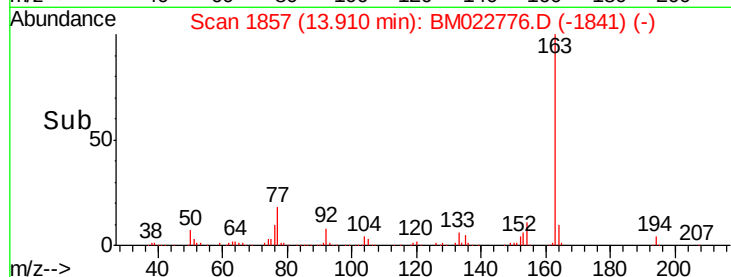
164 9.6 8.2 12.2



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



#58

Fluorene

Concen: 2.213 ng

RT: 15.50 min Scan# 2127

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

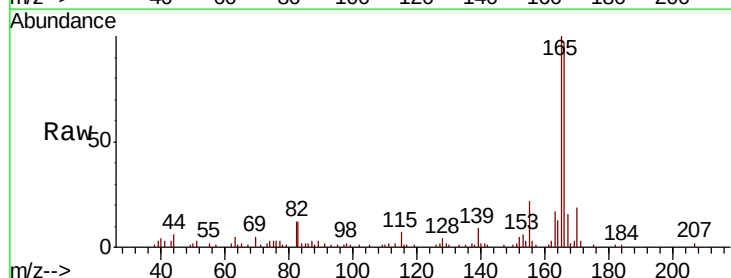
Tgt Ion:166 Resp: 70071

Ion Ratio Lower Upper

166 100

165 102.7 77.6 116.4

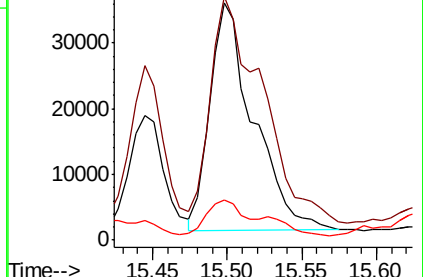
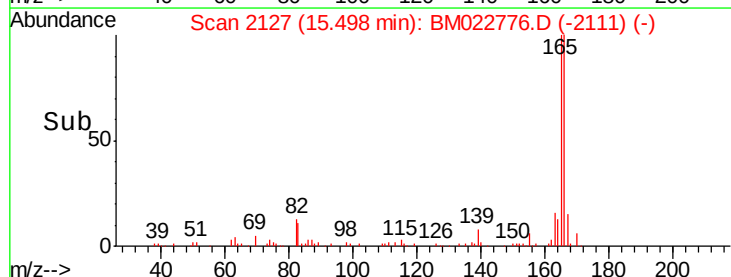
167 16.8 10.8 16.2#

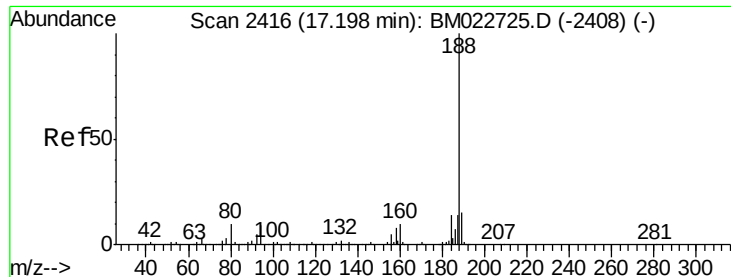


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

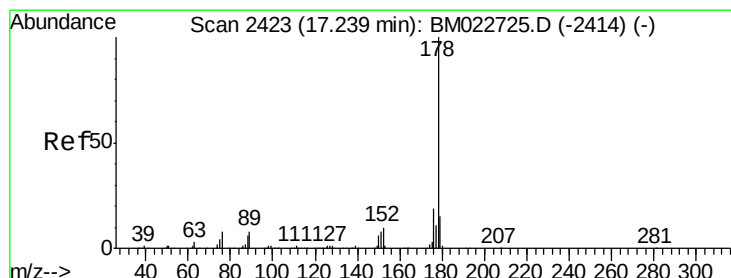
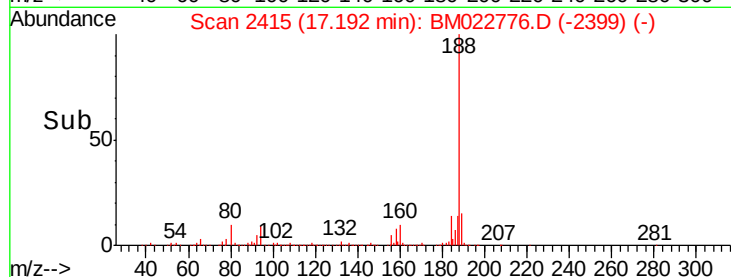
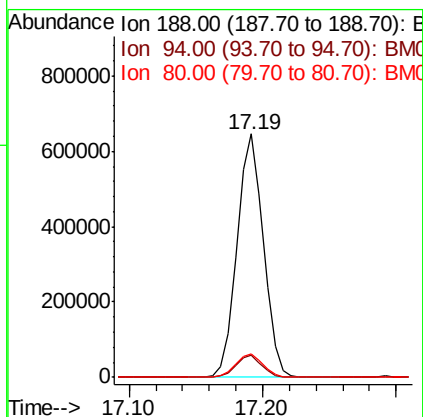
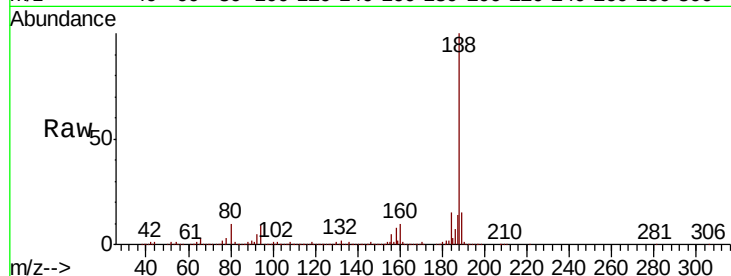




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.19 min Scan# 2415
 Delta R.T. -0.01 min
 Lab File: BM022776.D
 Acq: 25 Sep 2019 17:53

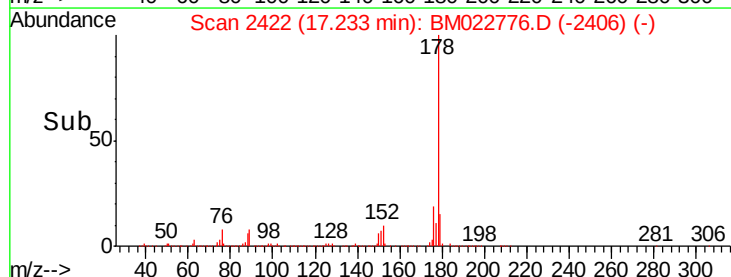
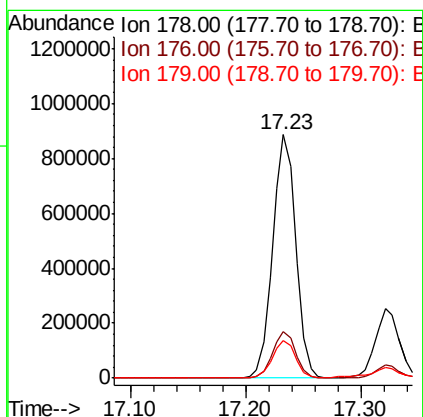
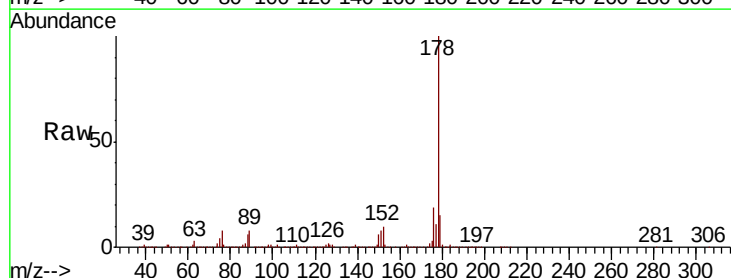
Instrument :
 BNA_M
 ClientSampleId :

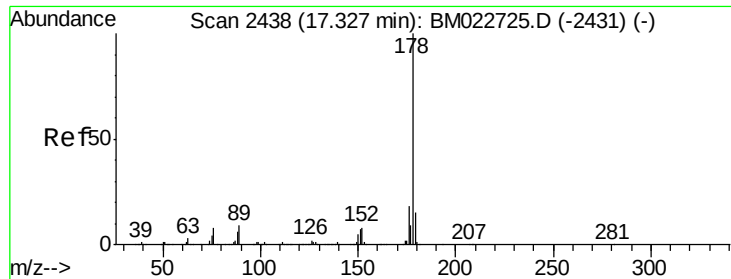
Tot Ion:188 Resp: 885083
 Ion Ratio Lower Upper
 188 100
 94 9.0 7.3 10.9
 80 9.6 7.8 11.8



#71
 Phenanthrene
 Concen: 24.697 ng
 RT: 17.23 min Scan# 2422
 Delta R.T. -0.01 min
 Lab File: BM022776.D
 Acq: 25 Sep 2019 17:53

Tgt Ion:178 Resp: 1233401
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.4 23.2
 179 15.5 12.3 18.5





#72

Anthracene

Concen: 7.404 ng

RT: 17.32 min Scan# 2437

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Instrument :

BNA_M

ClientSampleId :

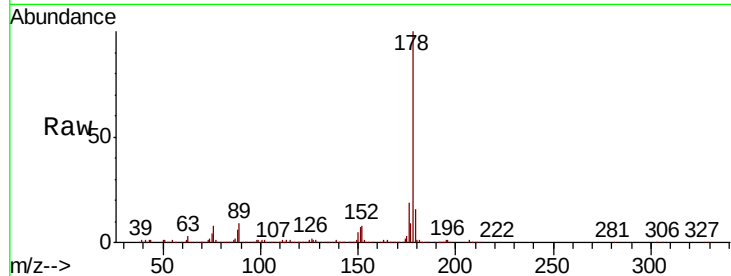
Tot Ion:178 Resp: 358382

Ion Ratio Lower Upper

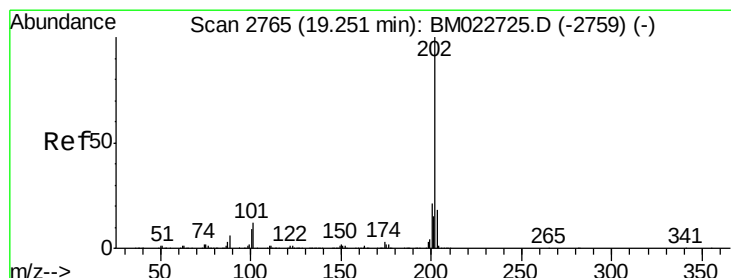
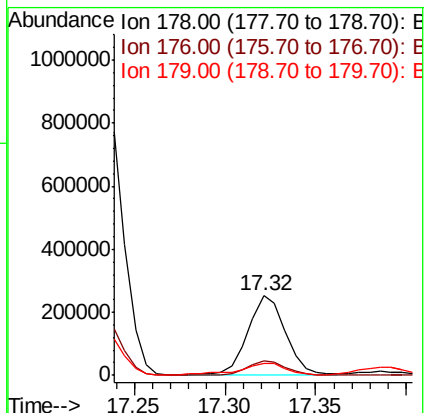
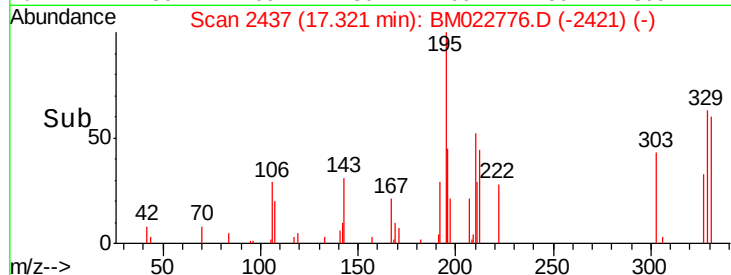
178 100

176 18.9 14.7 22.1

179 15.7 12.2 18.4



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: 34.703 ng

RT: 19.25 min Scan# 2765

Delta R.T. -0.00 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

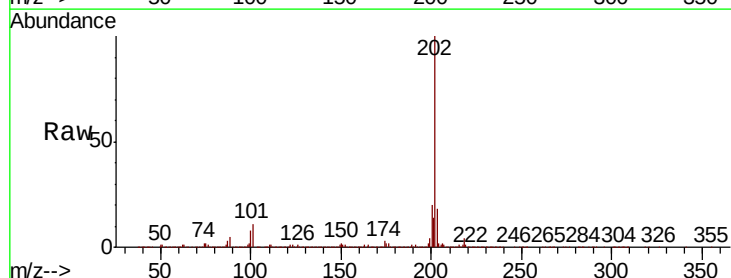
Tgt Ion:202 Resp: 1955708

Ion Ratio Lower Upper

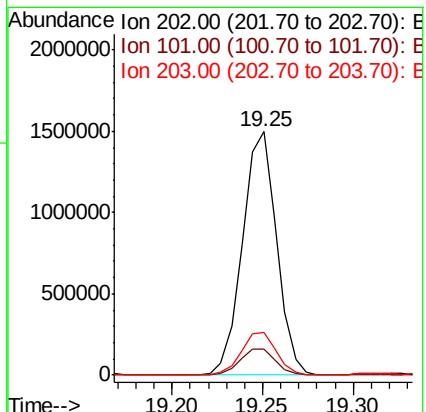
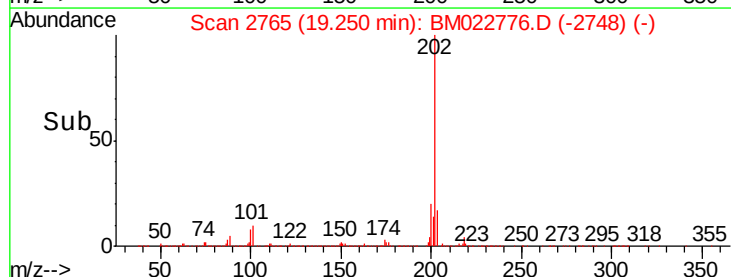
202 100

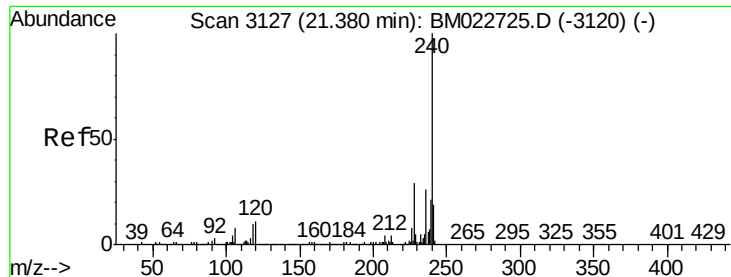
101 10.7 0.0 32.1

203 17.7 0.0 37.7



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: 21.37 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Instrument :

BNA_M

ClientSampleId :

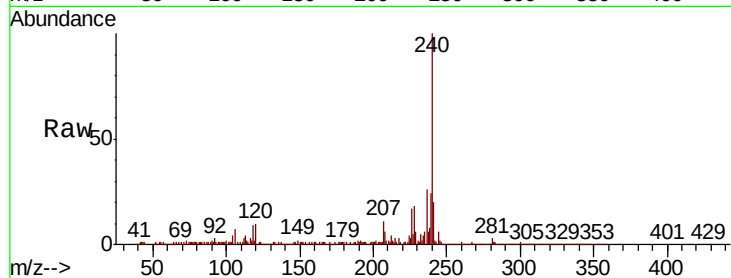
Tot Ion:240 Resp: 918245

Ion Ratio Lower Upper

240 100

120 10.2 8.8 13.2

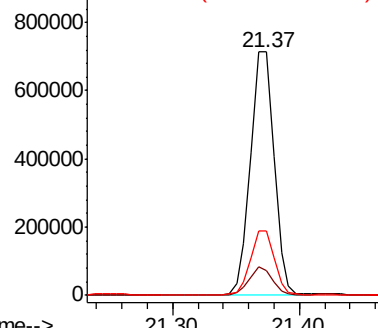
236 26.4 20.8 31.2



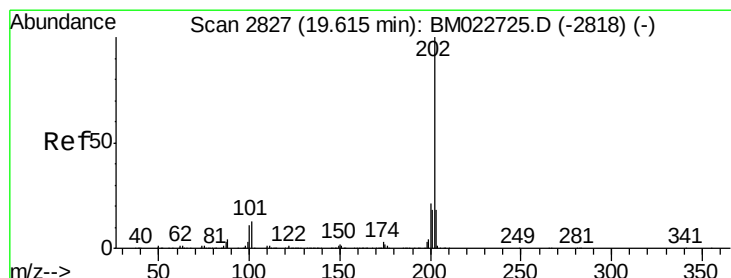
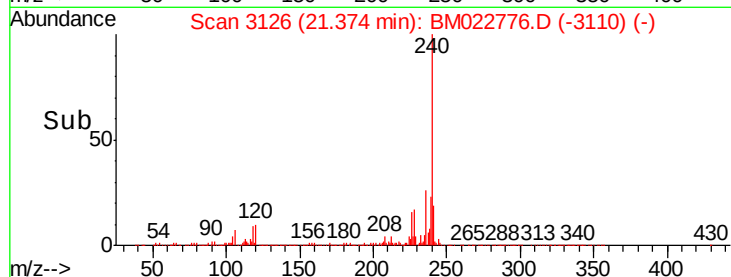
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#78

Pyrene

Concen: 38.369 ng

RT: 19.61 min Scan# 2826

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

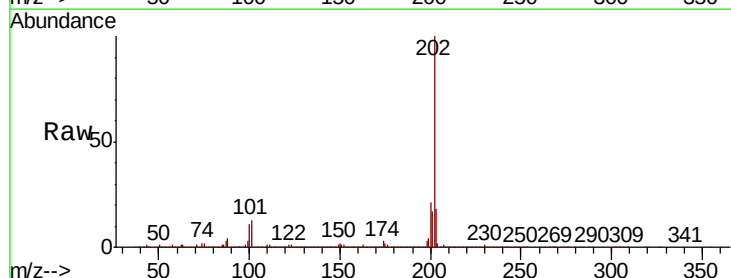
Tgt Ion:202 Resp: 2308893

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

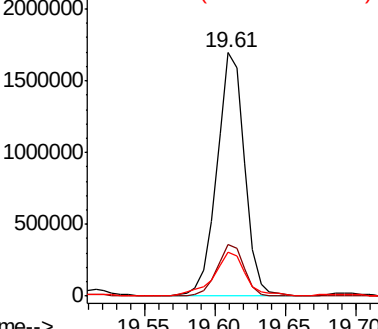
203 18.1 14.1 21.1



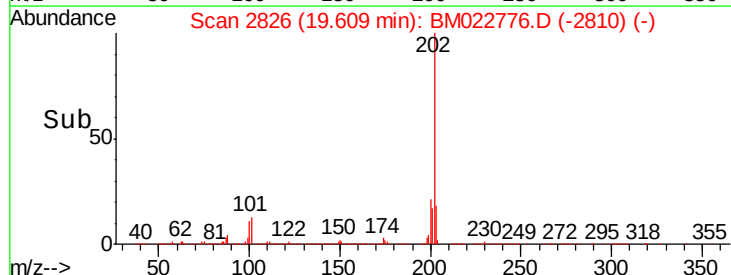
Abundance Ion 202.00 (201.70 to 202.70): E

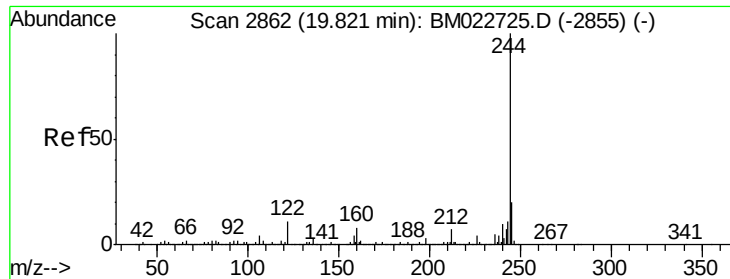
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#79

Terphenyl-d14

Concen: 71.256 ng

RT: 19.82 min Scan# 2861

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

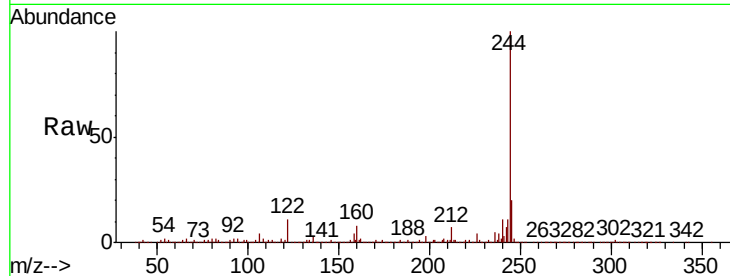
Instrument :

BNA_M

ClientSampleId :

Tot Ion:244 Resp: 3379036

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.9	8.9
122	10.8	9.0	13.4

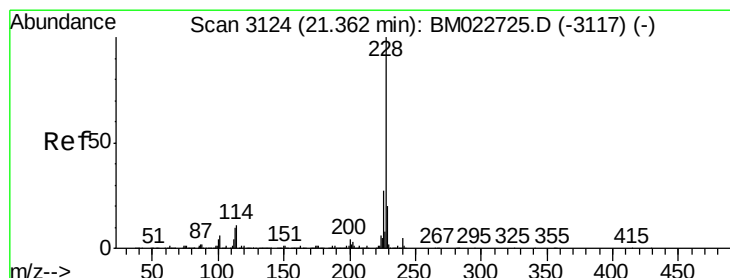
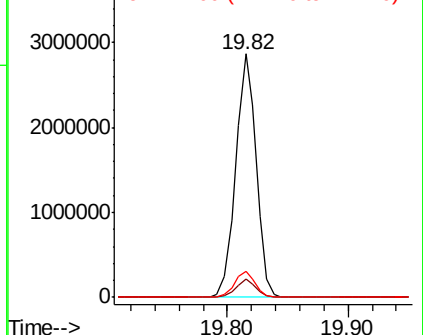
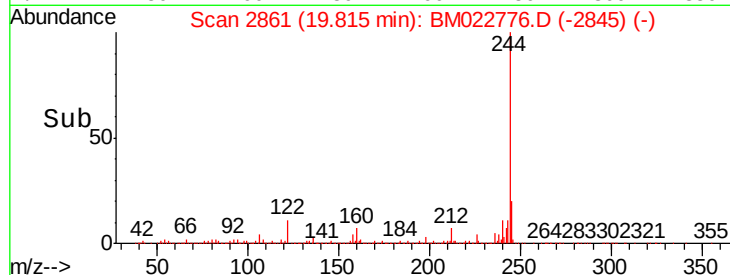


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 18.245 ng

RT: 21.36 min Scan# 3123

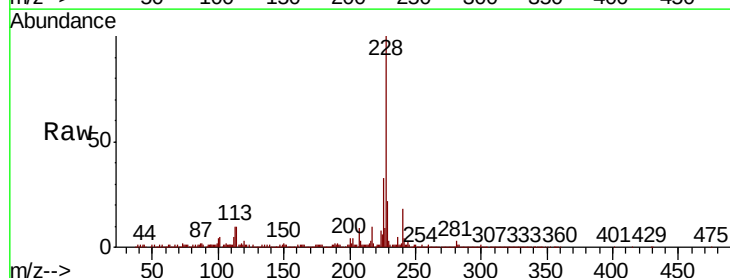
Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Tgt Ion:228 Resp: 1085784

Ion	Ratio	Lower	Upper
228	100		
226	32.8	22.0	33.0
229	22.0	15.9	23.9

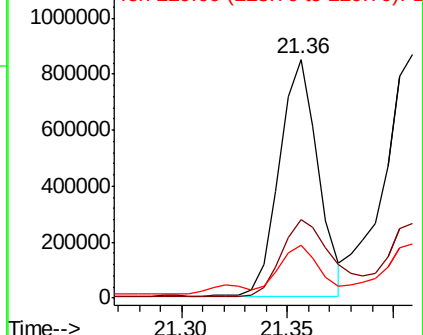
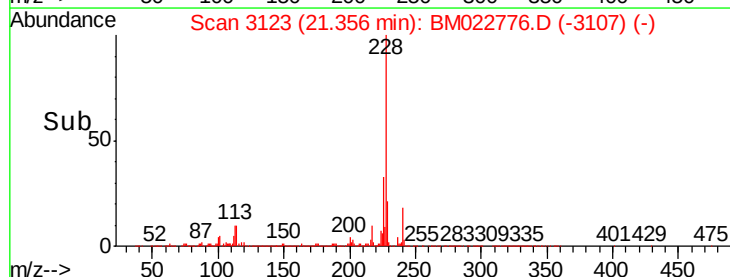


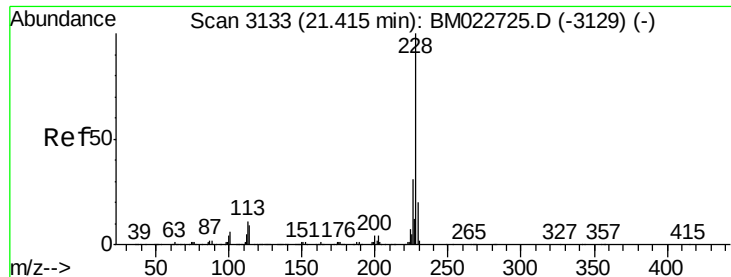
Abundance

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: 20.503 ng

RT: 21.41 min Scan# 3132

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

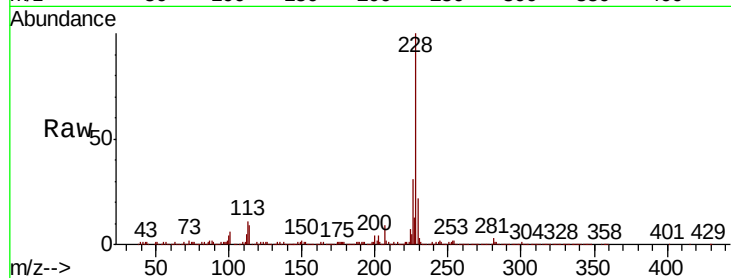
Instrument :

BNA_M

ClientSampleId :

Tot Ion:228 Resp: 1182951

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.5	36.7
229	22.0	15.9	23.9

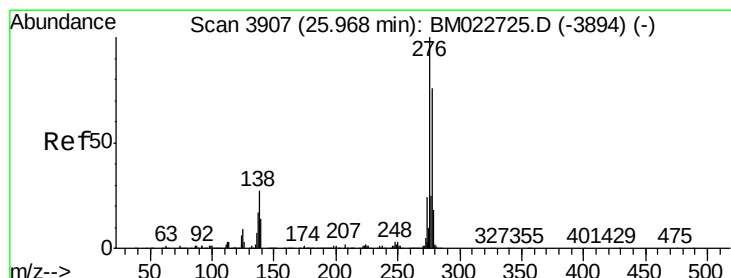
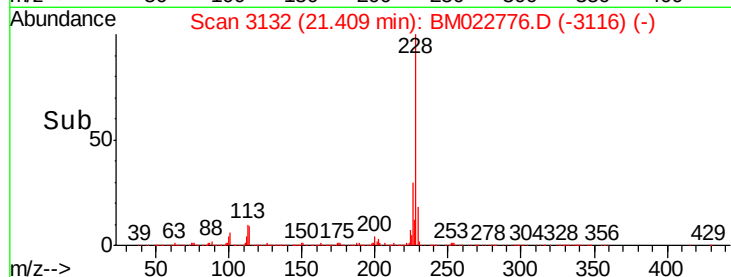
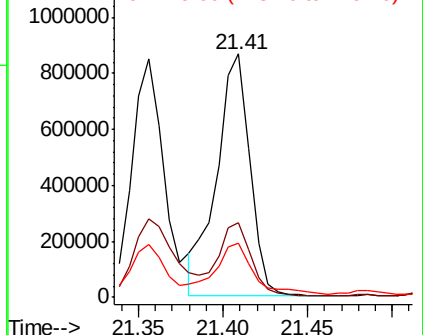


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 9.756 ng

RT: 25.95 min Scan# 3904

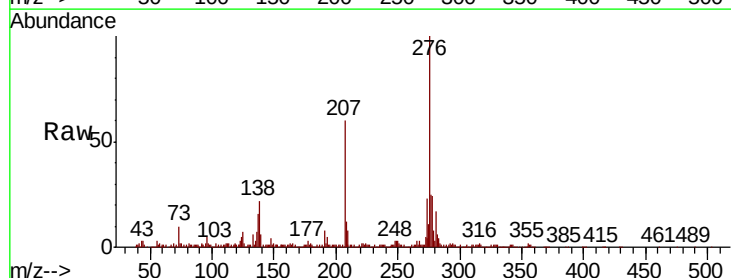
Delta R.T. -0.02 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Tgt Ion:276 Resp: 671820

Ion	Ratio	Lower	Upper
276	100		
138	21.3	0.0	0.0#
277	24.9	0.0	0.0#

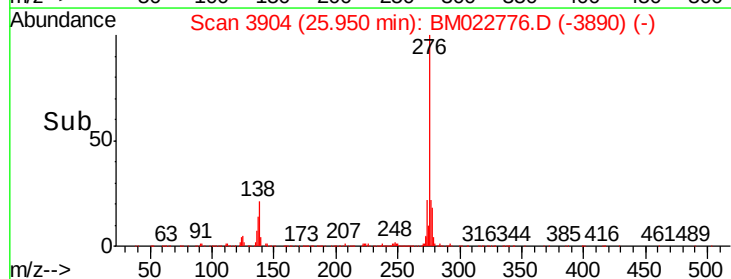
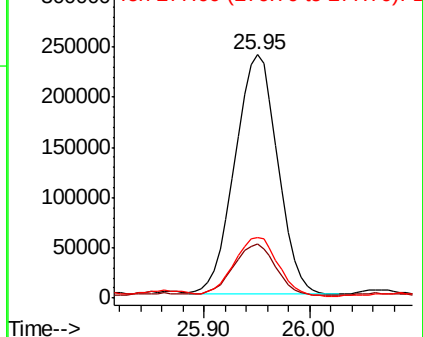


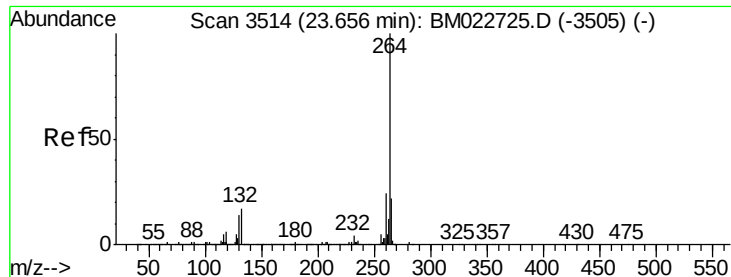
Abundance

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



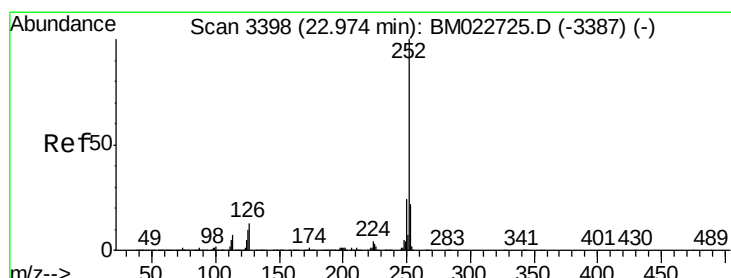
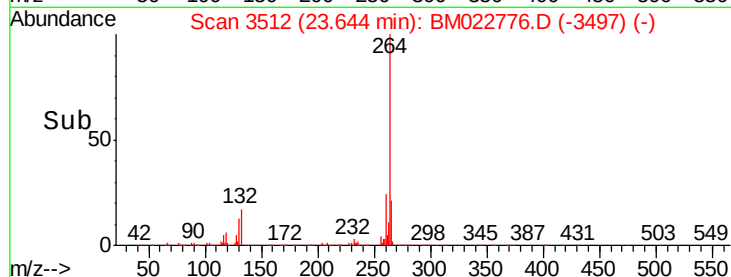
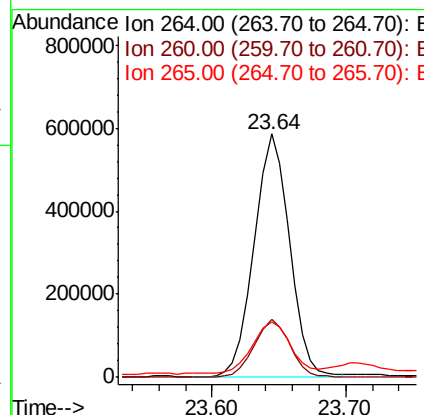
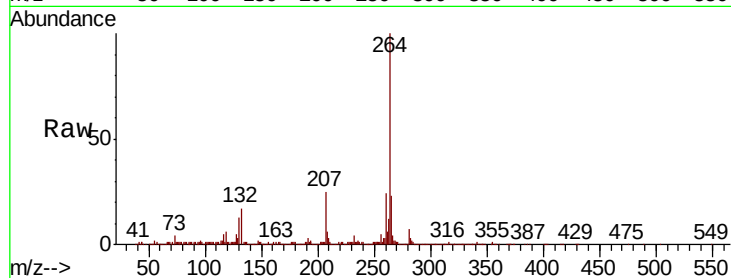


#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.64 min Scan# 3512
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Instrument :
BNA_M
ClientSampleId :

Tot Ion:264 Resp: 1072317

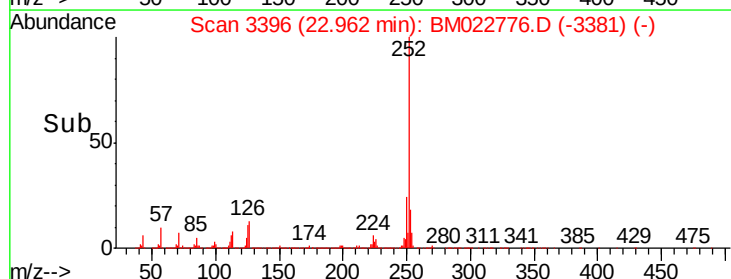
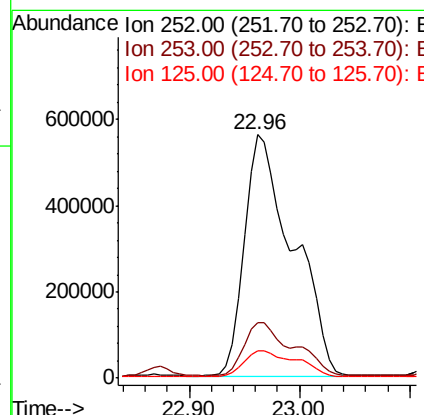
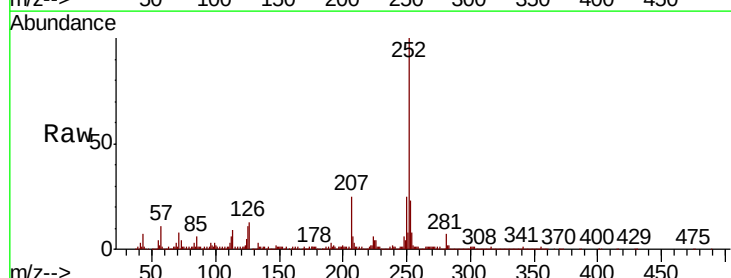
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	22.9	17.9	26.9

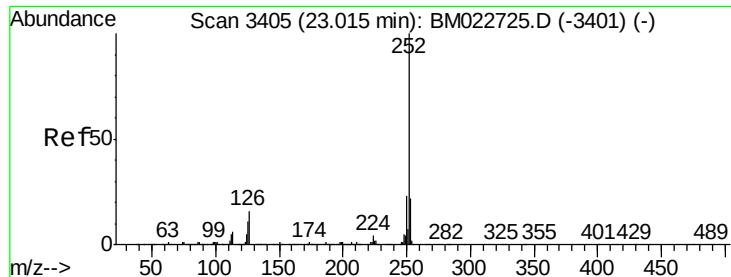


#88
Benzo(b)fluoranthene
Concen: 26.362 ng
RT: 22.96 min Scan# 3396
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Tgt Ion:252 Resp: 1711578

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	11.3	8.2	12.4

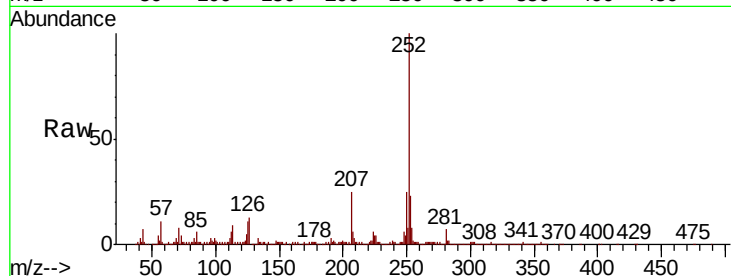




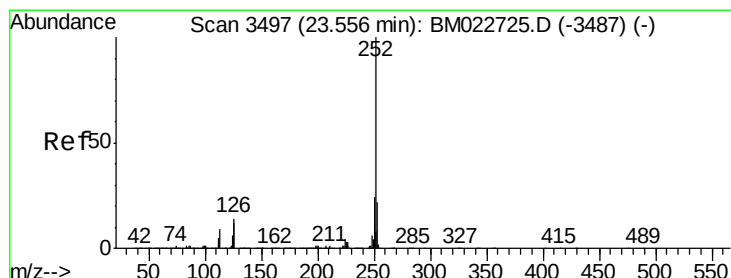
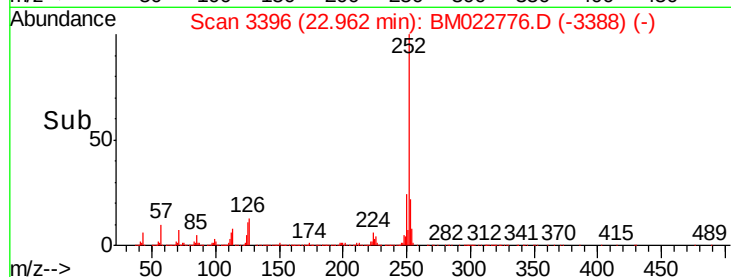
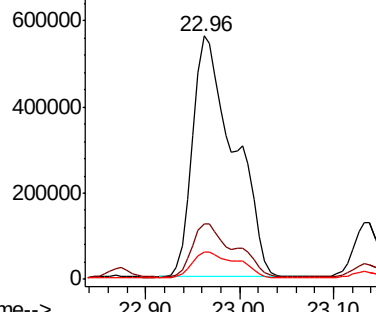
#89
Benzo(k)fluoranthene
Concen: 26.555 ng
RT: 22.96 min Scan# 3396
Delta R.T. -0.05 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Instrument :
BNA_M
ClientSampleId :

Tot Ion:252 Resp: 1710730
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 11.3 8.5 12.7

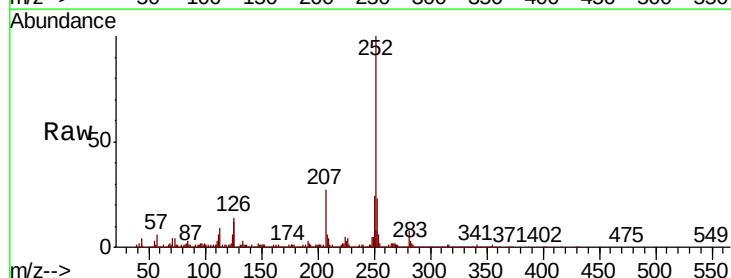


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

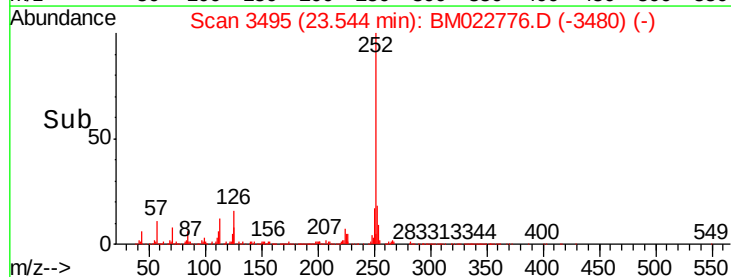
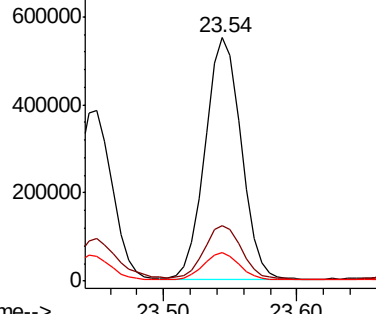


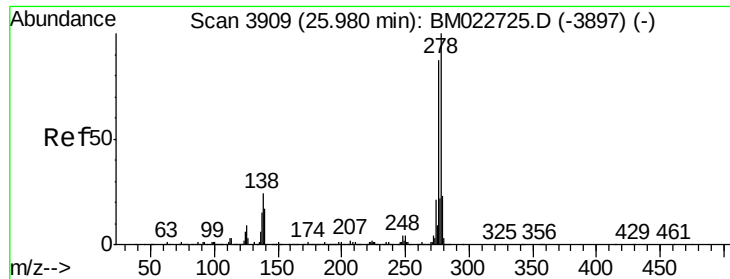
#90
Benzo(a)pyrene
Concen: 17.041 ng
RT: 23.54 min Scan# 3495
Delta R.T. -0.01 min
Lab File: BM022776.D
Acq: 25 Sep 2019 17:53

Tgt Ion:252 Resp: 1019473
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 11.6 9.3 13.9



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





#91

Dibenzo(a,h)anthracene

Concen: 2.979 ng

RT: 25.96 min Scan# 3905

Delta R.T. -0.02 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

Instrument :

BNA_M

ClientSampleId :

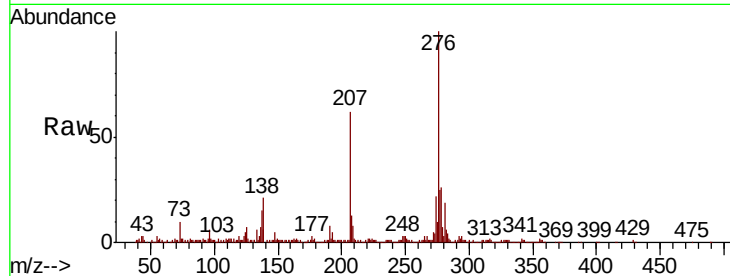
Tot Ion:278 Resp: 186430

Ion Ratio Lower Upper

278 100

139 21.6 13.7 20.5#

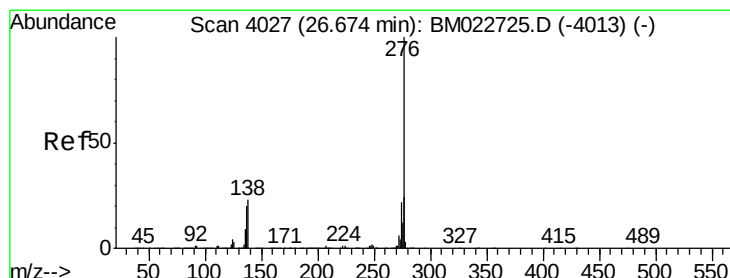
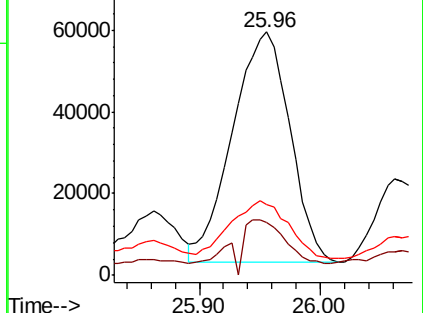
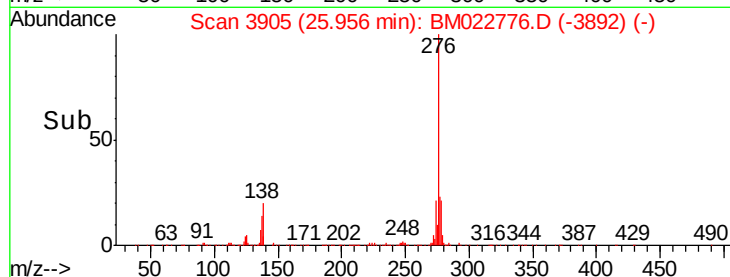
279 28.9 18.6 28.0#



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: 11.963 ng

RT: 26.66 min Scan# 4025

Delta R.T. -0.01 min

Lab File: BM022776.D

Acq: 25 Sep 2019 17:53

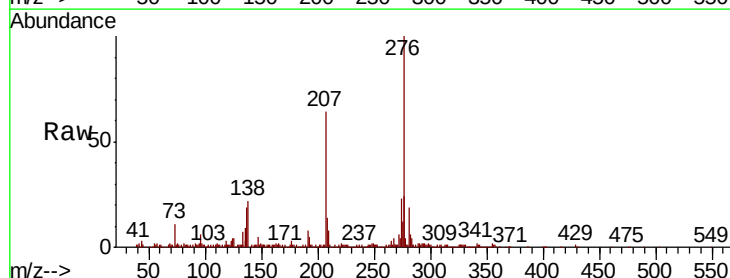
Tgt Ion:276 Resp: 711075

Ion Ratio Lower Upper

276 100

277 24.1 19.1 28.7

138 22.1 18.5 27.7



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

