

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\
 Data File : BM020160.D
 Acq On : 07 May 2019 08:50
 Operator : JU/SJ
 Sample : K2673-14 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 07 11:21:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	162815	20.00	ng	0.00
21) Naphthalene-d8	10.59	136	600733	20.00	ng	0.00
39) Acenaphthene-d10	14.44	164	355884	20.00	ng	0.00
64) Phenanthrene-d10	17.19	188	828611	20.00	ng	0.00
76) Chrysene-d12	21.37	240	829159	20.00	ng	0.00
87) Perylene-d12	23.67	264	962248	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	278212	27.93	ng	0.00
7) Phenol-d6	6.96	99	391371	28.76	ng	0.01
23) Nitrobenzene-d5	8.96	82	255630	16.80	ng	0.00
42) 2,4,6-Tribromophenol	15.93	330	159384	28.85	ng	0.01
45) 2-Fluorobiphenyl	13.06	172	527191	18.23	ng	0.00
79) Terphenyl-d14	19.81	244	798229	16.79	ng	0.00

Target Compounds

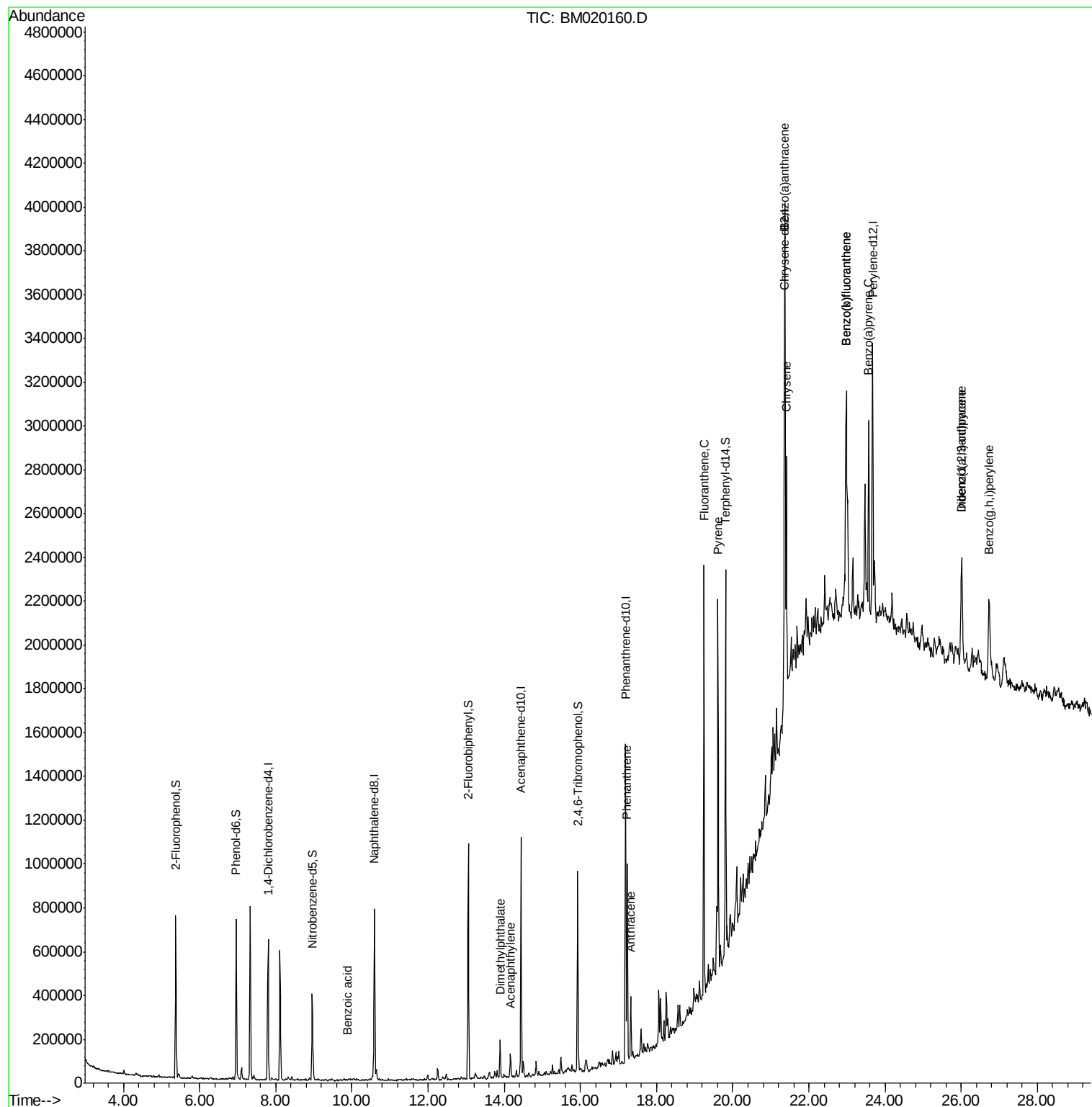
						Qvalue
32) Benzoic acid	9.88	122	113	6.628	ng	# 1
49) Acenaphthylene	14.16	152	76532	2.045	ng	100
50) Dimethylphthalate	13.89	163	86691	2.866	ng	# 99
71) Phenanthrene	17.23	178	514018	11.238	ng	99
72) Anthracene	17.32	178	179915	3.934	ng	98
75) Fluoranthene	19.24	202	1174319	20.291	ng	100
78) Pyrene	19.61	202	1049177	18.847	ng	99
81) Benzo(a)anthracene	21.36	228	687263	11.819	ng	97
83) Chrysene	21.41	228	585720	10.386	ng	96
86) Indeno(1,2,3-cd)pyrene	26.01	276	487752	7.271	ng	# 100
88) Benzo(b)fluoranthene	22.98	252	1243643	19.572	ng	# 96
89) Benzo(k)fluoranthene	22.98	252	1236853	21.339	ng	# 97
90) Benzo(a)pyrene	23.57	252	677768	11.743	ng	# 93
91) Dibenzo(a,h)anthracene	26.01	278	128238	2.136	ng	# 78
92) Benzo(a,h,i)perylene	26.73	276	477006	8.371	ng	95

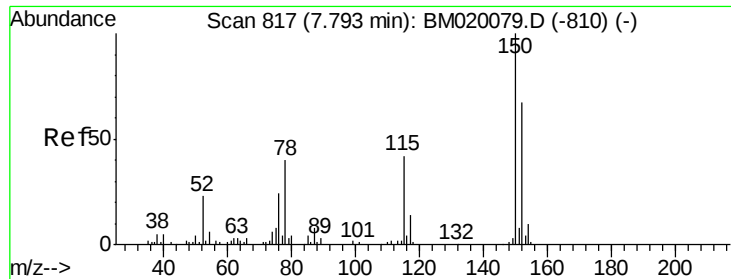
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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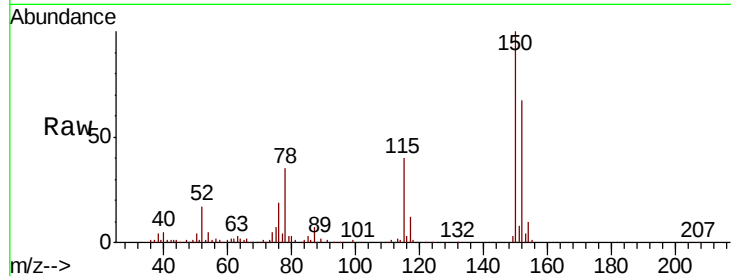


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.6	119.8	179.8
115	59.8	50.8	76.2

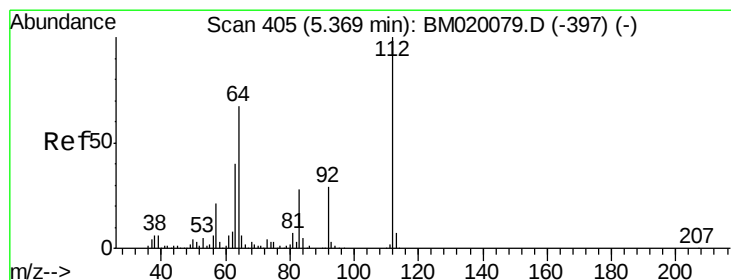
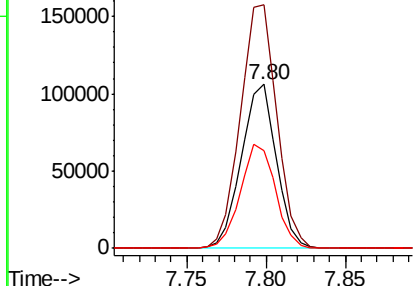
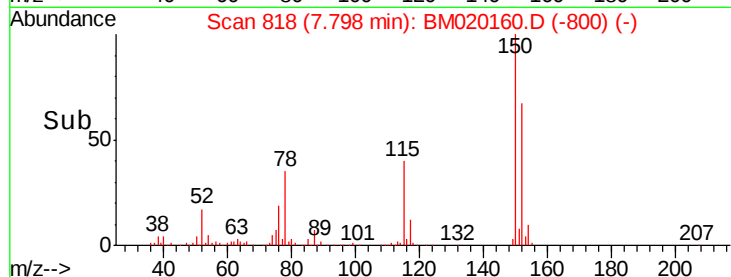


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

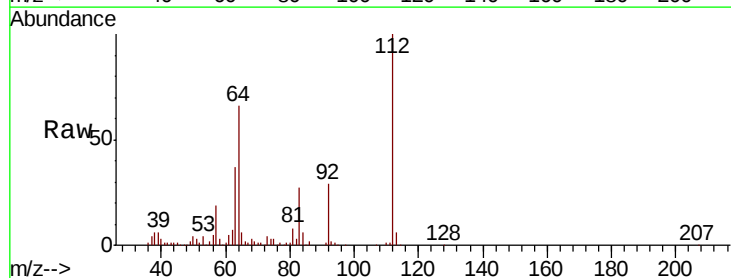
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 27.931 ng
RT: 5.37 min Scan# 406
Delta R.T. 0.01 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.6	53.8	80.6
63	37.2	32.3	48.5

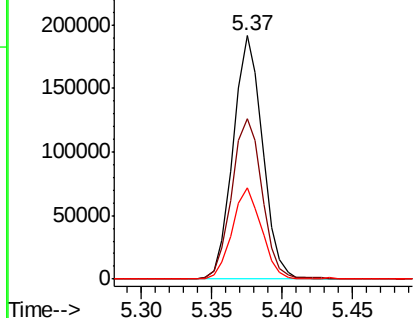
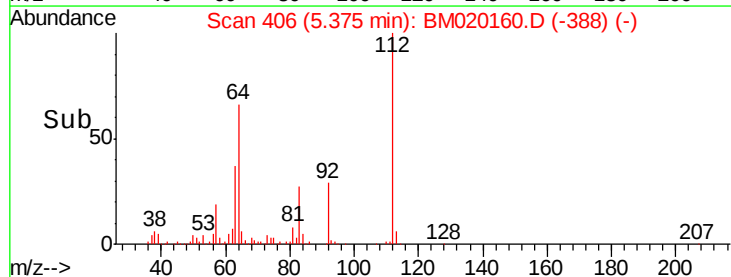


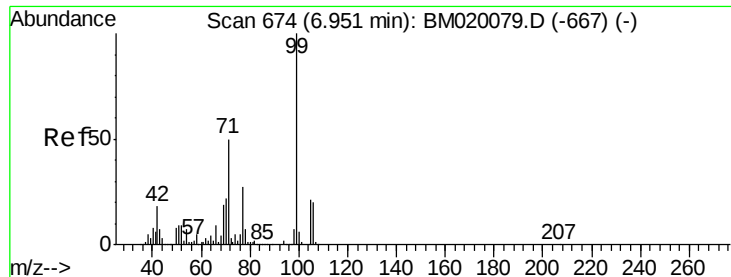
Abundance

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: 28.761 ng

RT: 6.96 min Scan# 676

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampleId :

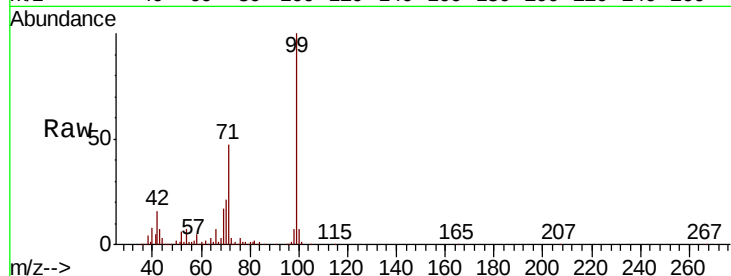
Tot Ion: 99 Resp: 391371

Ion Ratio Lower Upper

99 100

42 15.6 14.2 21.2

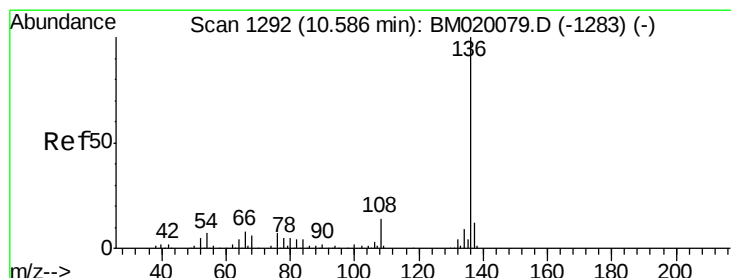
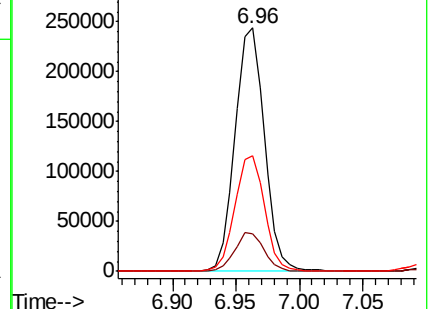
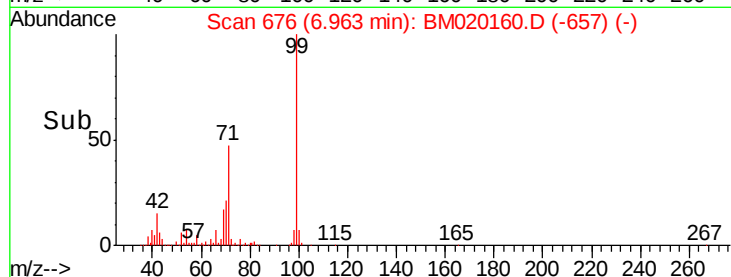
71 47.3 40.3 60.5



Abundance Ion 99.00 (98.70 to 99.70): BM020160.D (-657) (-)

Ion 42.00 (41.70 to 42.70): BM020160.D (-657) (-)

Ion 71.00 (70.70 to 71.70): BM020160.D (-657) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.59 min Scan# 1293

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Tgt Ion: 136 Resp: 600733

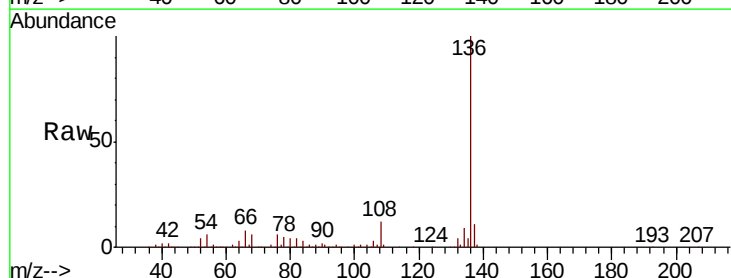
Ion Ratio Lower Upper

136 100

137 11.0 9.6 14.4

54 6.3 5.5 8.3

68 6.3 4.6 6.8

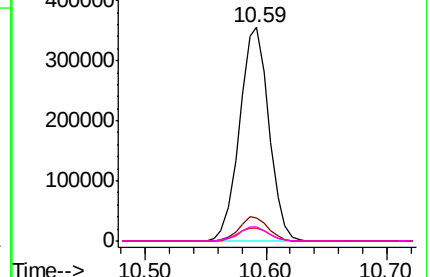
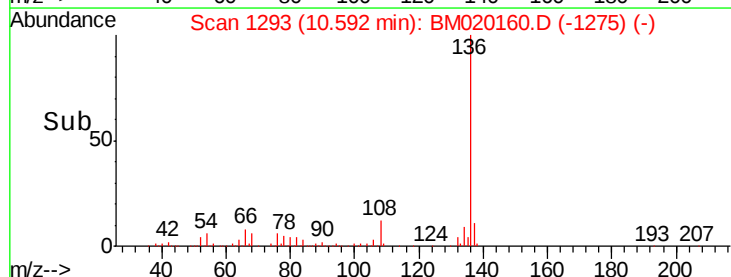


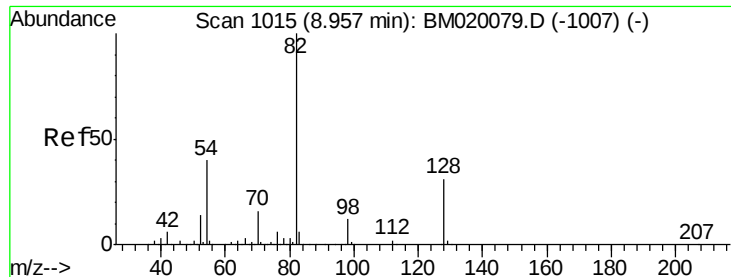
Abundance Ion 136.00 (135.70 to 136.70): BM020160.D (-1275) (-)

Ion 137.00 (136.70 to 137.70): BM020160.D (-1275) (-)

Ion 54.00 (53.70 to 54.70): BM020160.D (-1275) (-)

Ion 68.00 (67.70 to 68.70): BM020160.D (-1275) (-)

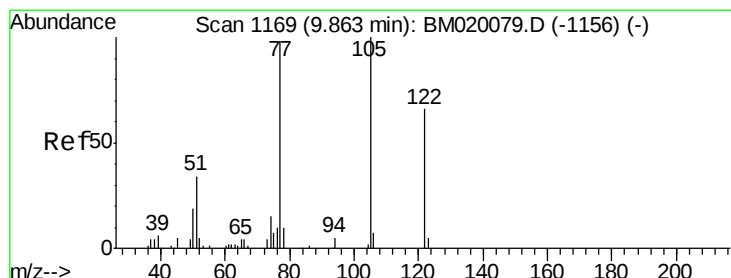
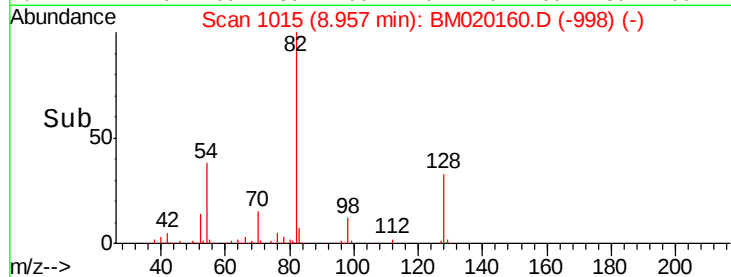
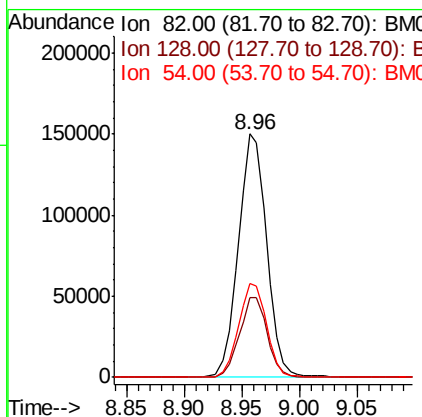
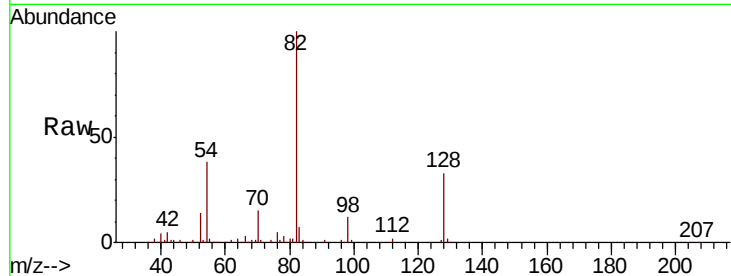




#23
Nitrobenzene-d5
Concen: 16.800 ng
RT: 8.96 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

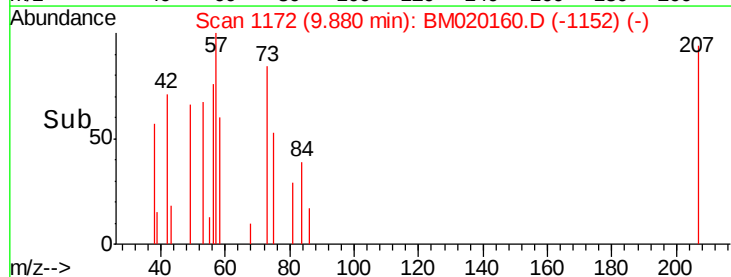
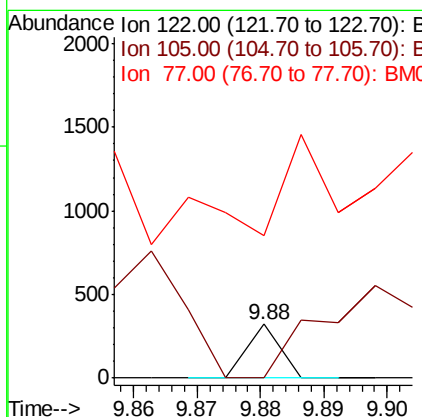
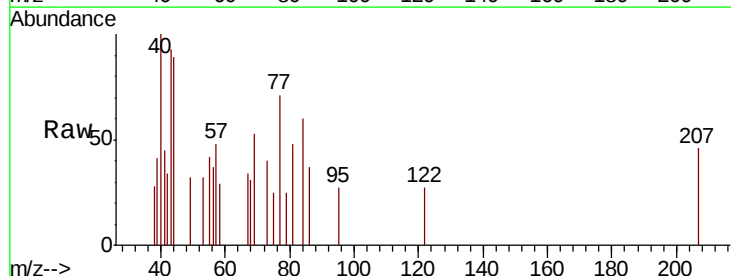
Instrument :
BNA_M
ClientSampleId :

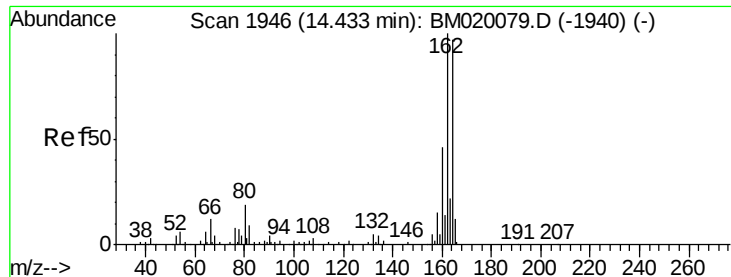
Tot Ion	82	Resp	255630
Ion Ratio	Lower	Upper	
82	100		
128	32.5	25.2	37.8
54	38.5	31.9	47.9



#32
Benzoic acid
Concen: 6.628 ng
RT: 9.88 min Scan# 1172
Delta R.T. 0.02 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Tgt Ion	122	Resp	113
Ion Ratio	Lower	Upper	
122	100		
105	0.0	122.5	162.5#
77	267.2	123.3	163.3#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.44 min Scan# 1947

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampleId :

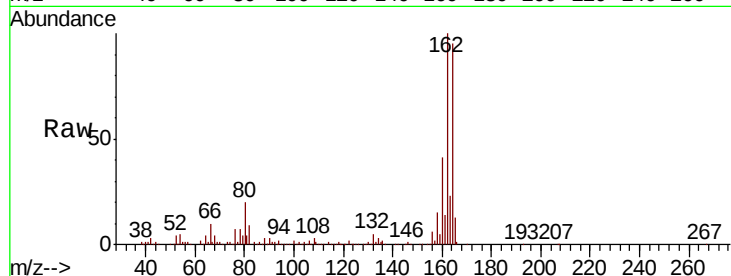
Tot Ion:164 Resp: 355884

Ion Ratio Lower Upper

164 100

162 105.0 82.2 123.2

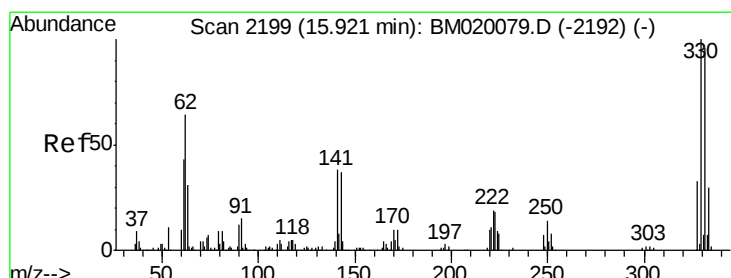
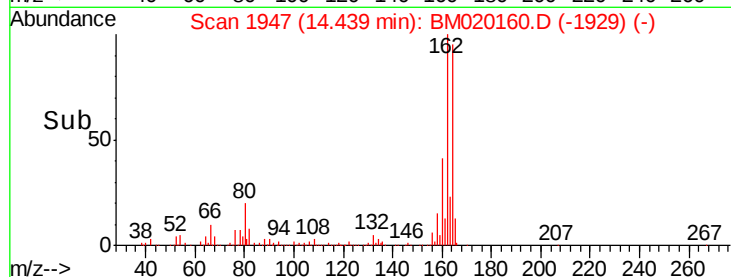
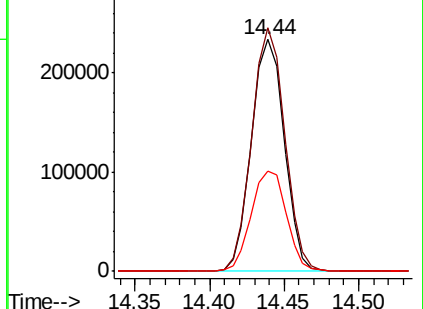
160 43.3 37.6 56.4



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: 28.853 ng

RT: 15.93 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

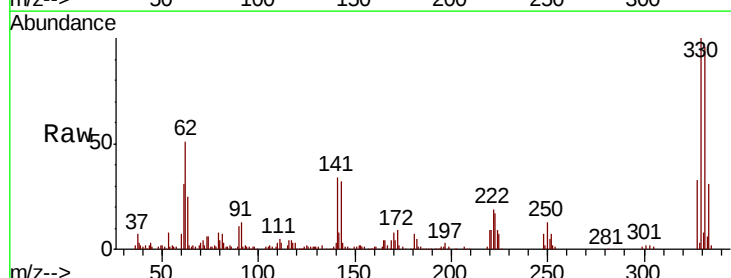
Tgt Ion:330 Resp: 159384

Ion Ratio Lower Upper

330 100

332 98.5 76.8 115.2

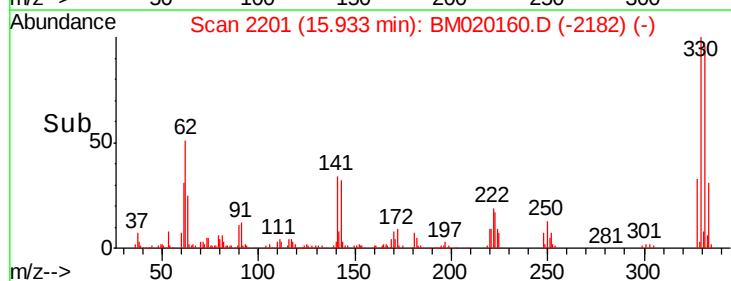
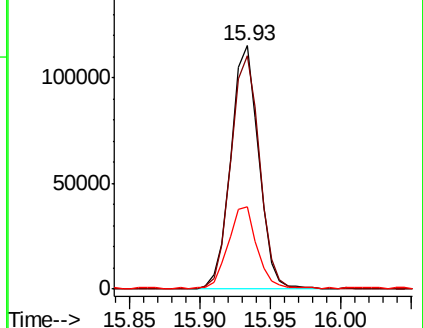
141 34.2 29.2 43.8

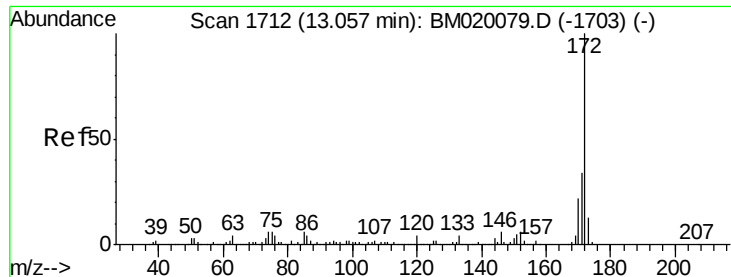


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

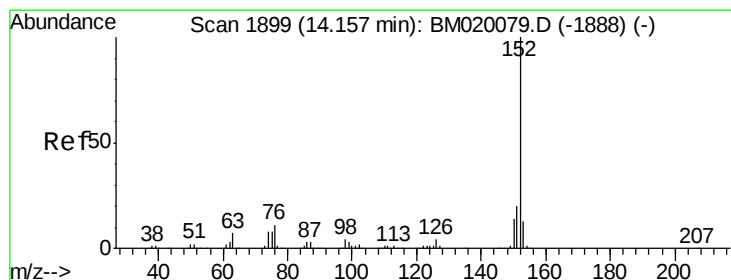
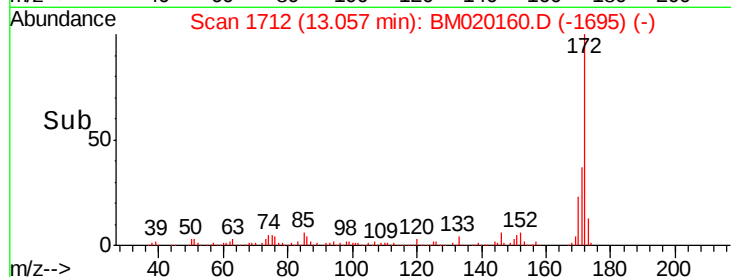
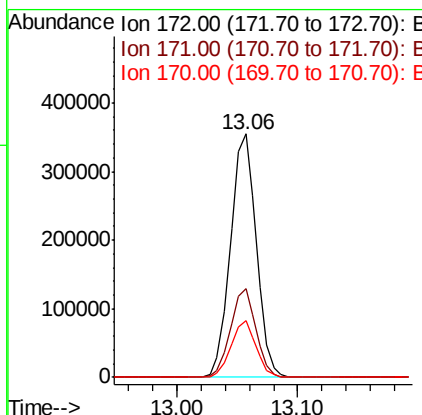
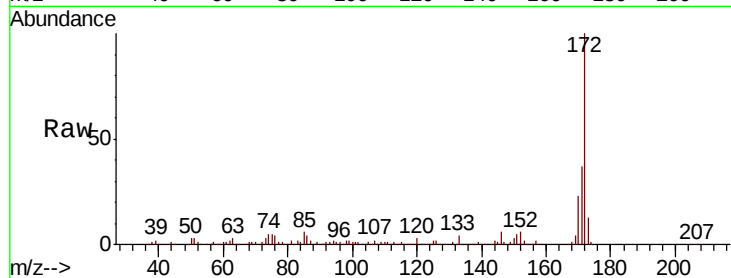




#45
2-Fluorobiphenyl
Concen: 18.226 ng
RT: 13.06 min Scan# 1712
Delta R.T. -0.00 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

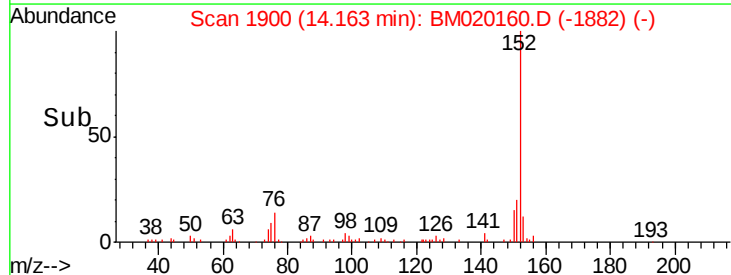
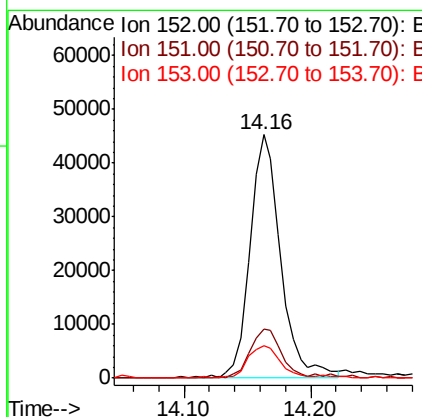
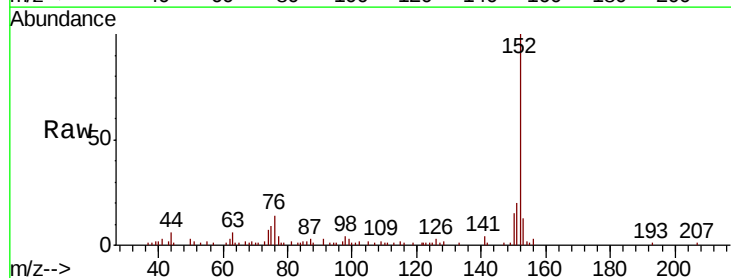
Instrument :
BNA_M
ClientSampleId :

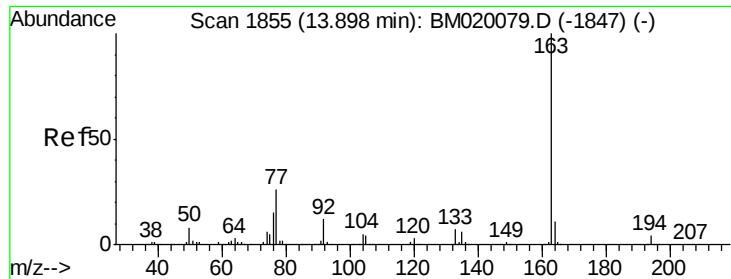
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	27.3	40.9
170	23.4	17.9	26.9



#49
Acenaphthylene
Concen: 2.045 ng
RT: 14.16 min Scan# 1900
Delta R.T. 0.01 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.2	10.6	16.0





#50

Dimethylphthalate

Concen: 2.866 ng

RT: 13.89 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampleId :

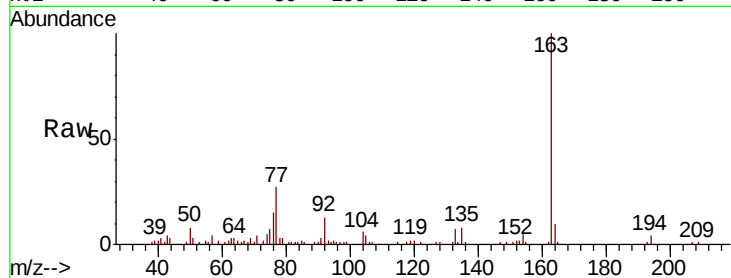
Tot Ion:163 Resp: 86691

Ion Ratio Lower Upper

163 100

194 3.6 3.6 5.4#

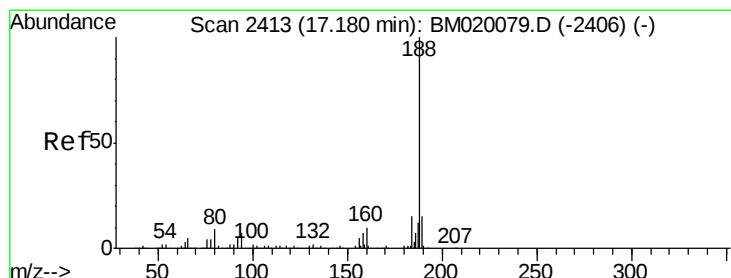
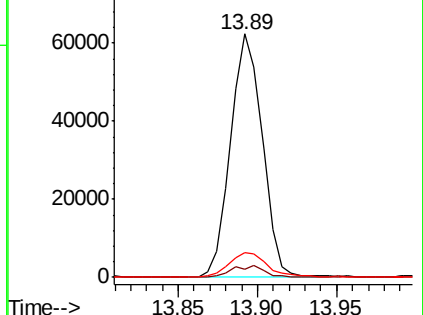
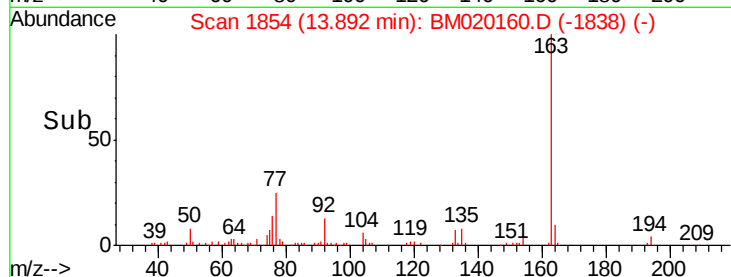
164 10.3 8.4 12.6



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.19 min Scan# 2414

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

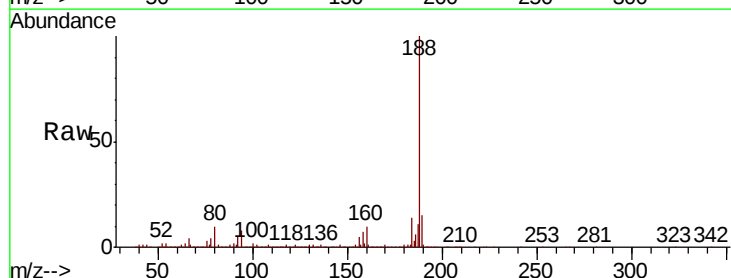
Tgt Ion:188 Resp: 828611

Ion Ratio Lower Upper

188 100

94 7.9 5.8 8.6

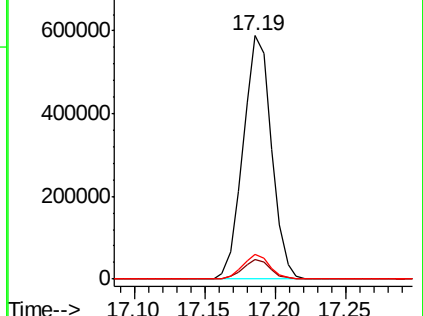
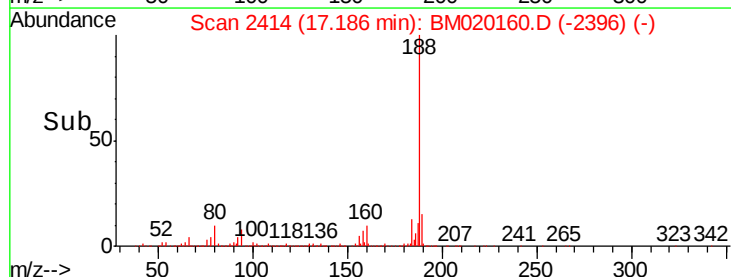
80 9.9 7.4 11.2

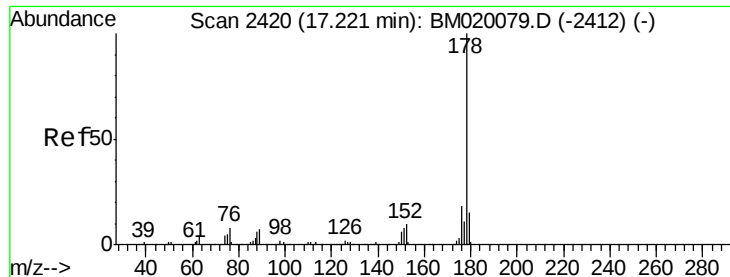


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

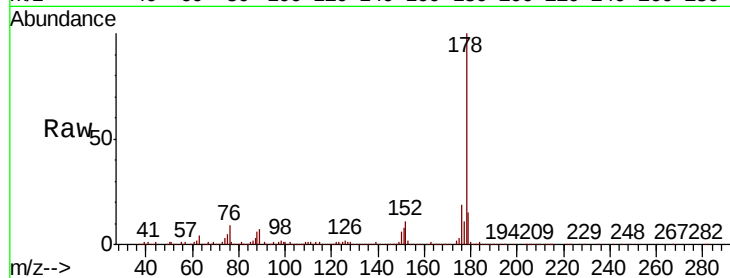




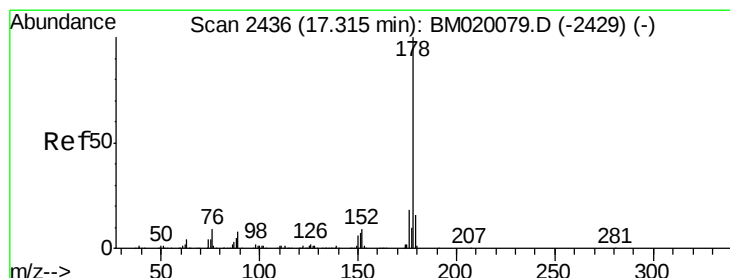
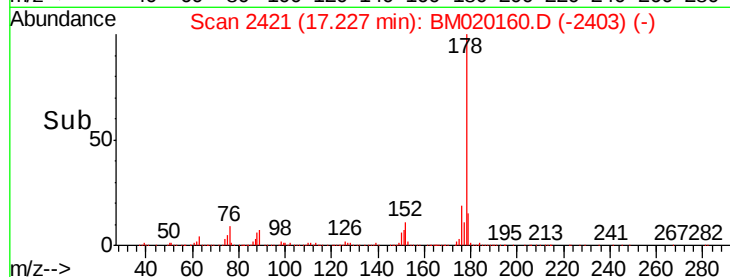
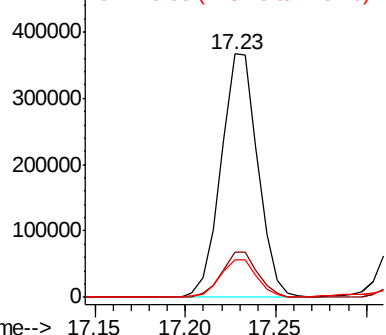
#71
Phenanthrene
Concen: 11.238 ng
RT: 17.23 min Scan# 2421
Delta R.T. 0.01 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Instrument :
BNA_M
ClientSampled :

Tot Ion	178	Resp	514018
Ion Ratio	100	Lower	Upper
176	18.6	14.6	21.8
179	15.4	12.4	18.6

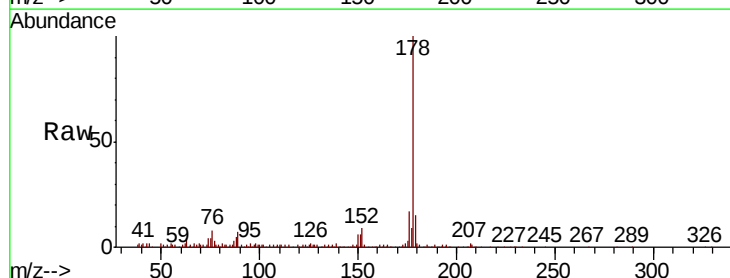


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

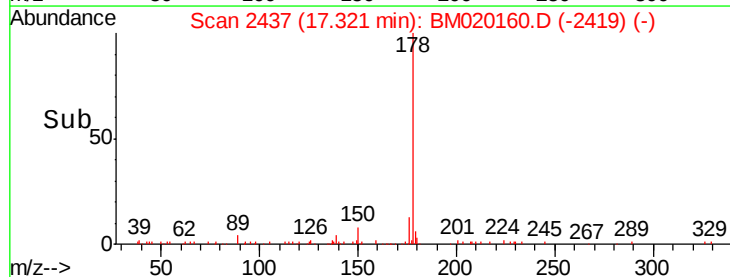
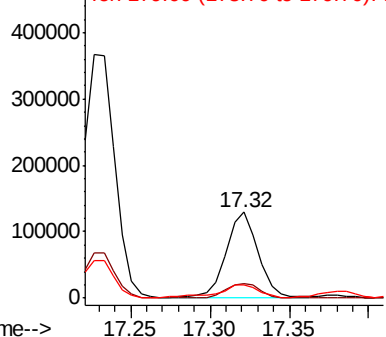


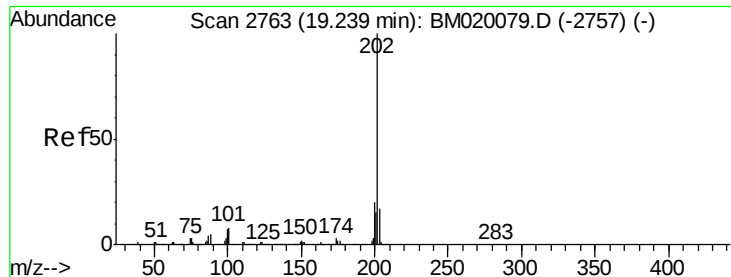
#72
Anthracene
Concen: 3.934 ng
RT: 17.32 min Scan# 2437
Delta R.T. 0.01 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Tgt Ion	178	Resp	179915
Ion Ratio	100	Lower	Upper
176	17.2	14.6	22.0
179	14.9	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





#75

Fluoranthene

Concen: 20.291 ng

RT: 19.24 min Scan# 2764

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampleId :

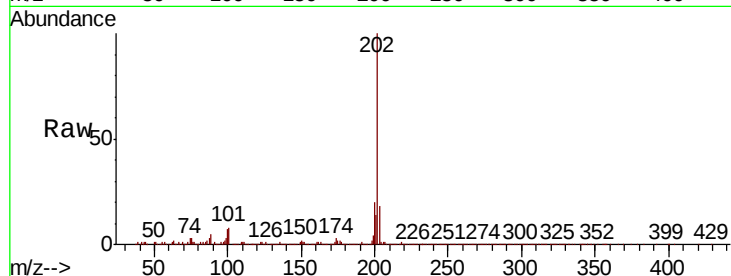
Tot Ion:202 Resp: 1174319

Ion Ratio Lower Upper

202 100

101 8.3 0.0 28.4

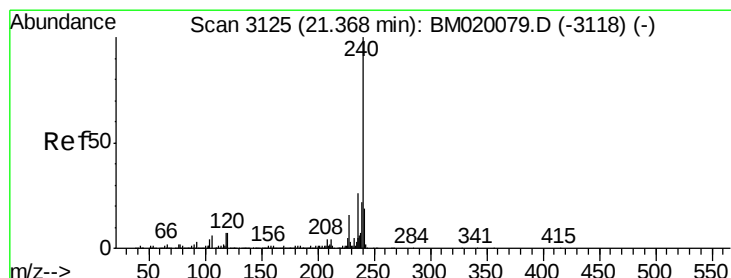
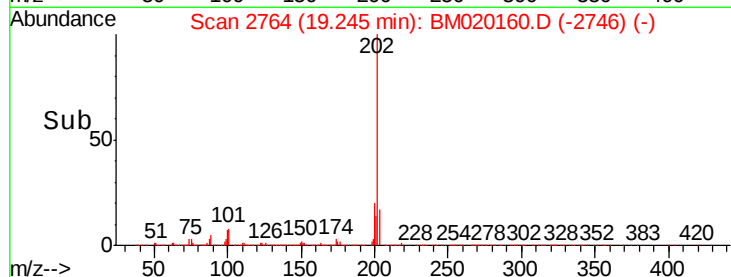
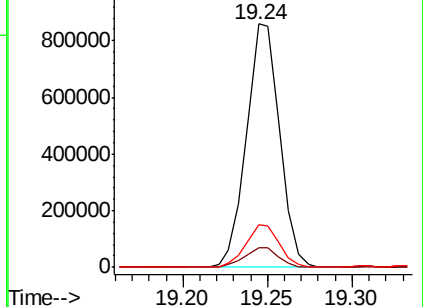
203 17.6 0.0 37.4



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: BM020160.D

Acq: 07 May 2019 08:50

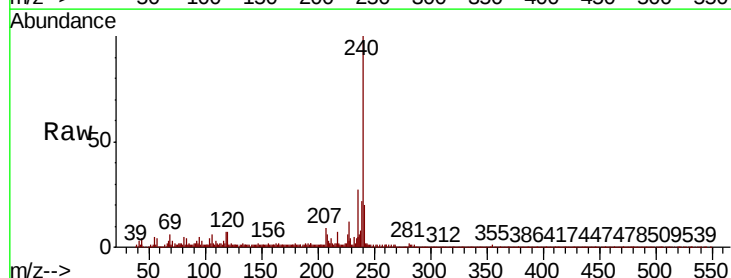
Tgt Ion:240 Resp: 829159

Ion Ratio Lower Upper

240 100

120 7.1 5.6 8.4

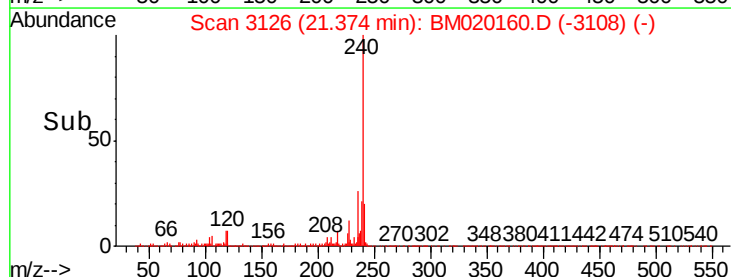
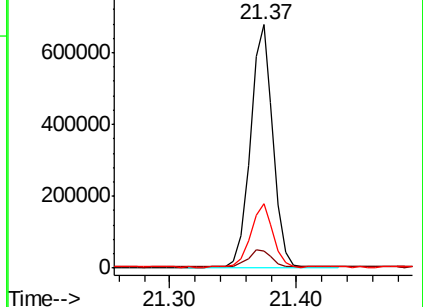
236 26.6 20.9 31.3

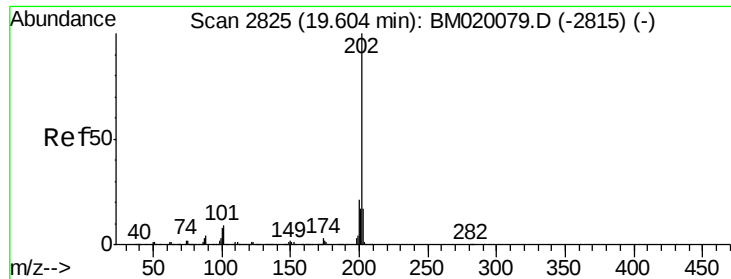


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

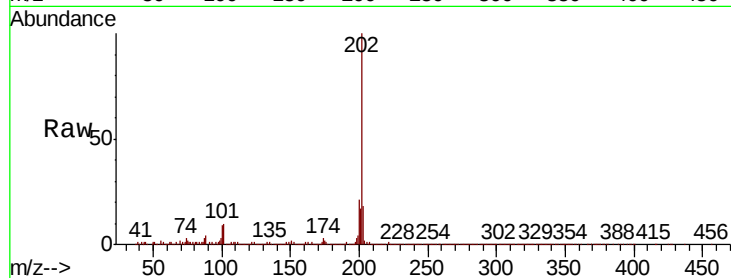




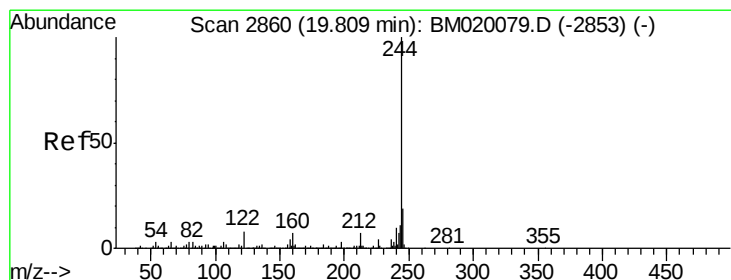
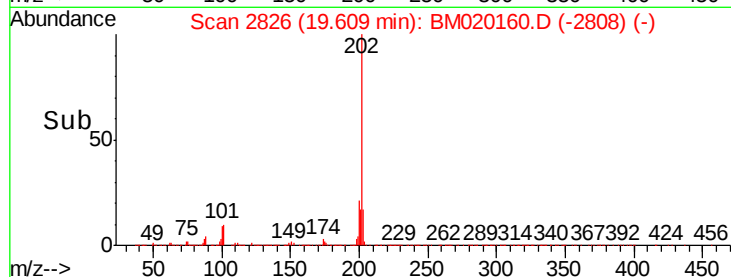
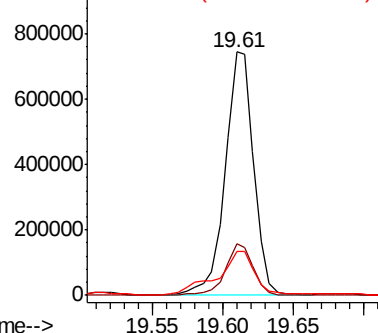
#78
Pvrene
Concen: 18.847 ng
RT: 19.61 min Scan# 2826
Delta R.T. 0.01 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Instrument :
BNA_M
ClientSampleId :

Tot Ion:202 Resp: 1049177
Ion Ratio Lower Upper
202 100
200 21.0 16.5 24.7
203 17.8 13.9 20.9

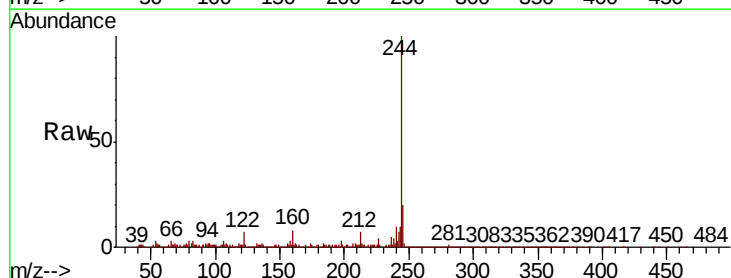


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

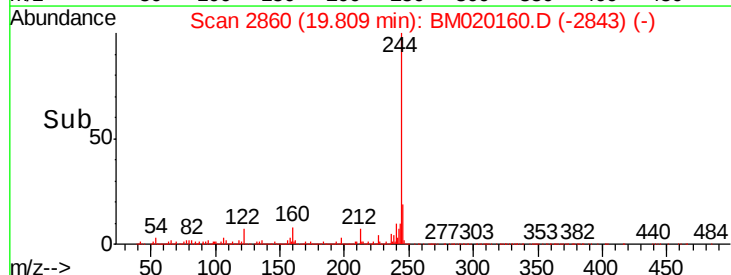
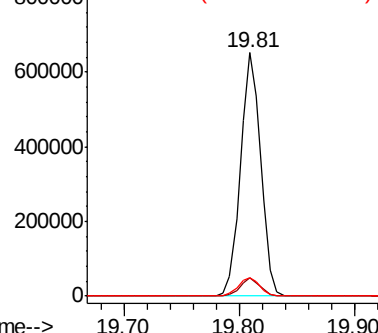


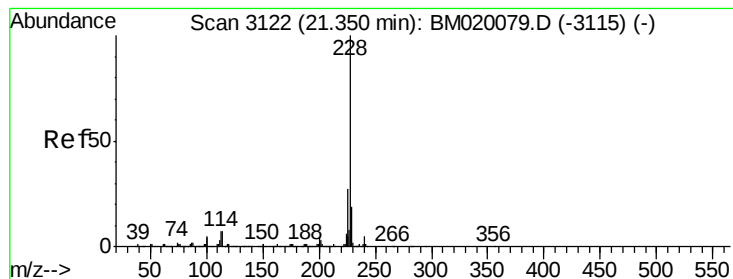
#79
Terphenyl-d14
Concen: 16.792 ng
RT: 19.81 min Scan# 2860
Delta R.T. -0.00 min
Lab File: BM020160.D
Acq: 07 May 2019 08:50

Tgt Ion:244 Resp: 798229
Ion Ratio Lower Upper
244 100
212 7.4 5.7 8.5
122 7.5 6.2 9.2



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: 11.819 ng

RT: 21.36 min Scan# 3123

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampleId :

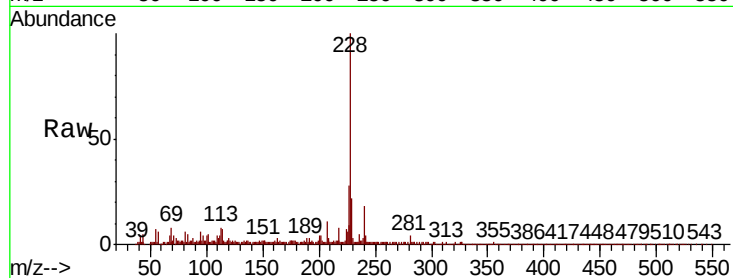
Tot Ion:228 Resp: 687263

Ion Ratio Lower Upper

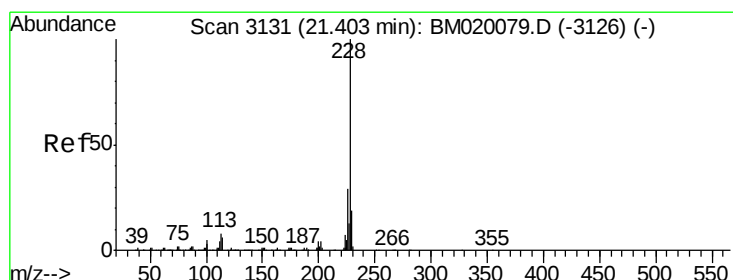
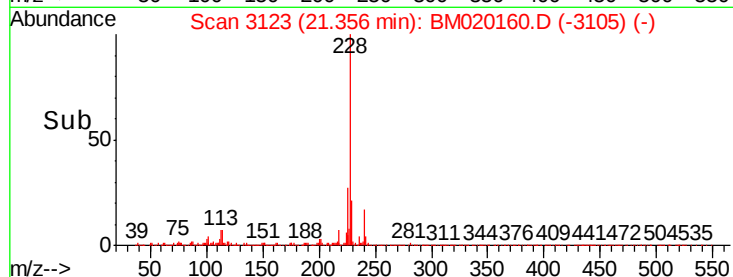
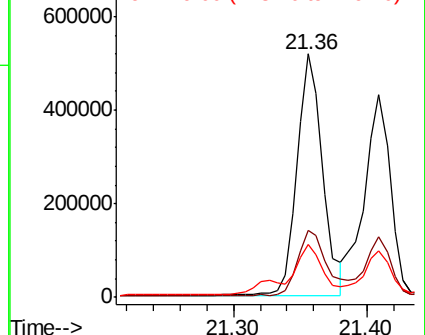
228 100

226 27.7 21.3 31.9

229 21.6 15.5 23.3



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: 10.386 ng

RT: 21.41 min Scan# 3132

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

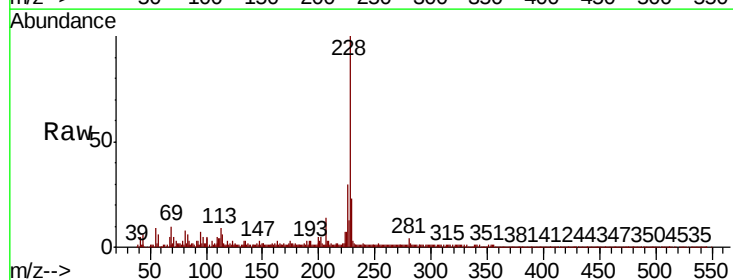
Tgt Ion:228 Resp: 585720

Ion Ratio Lower Upper

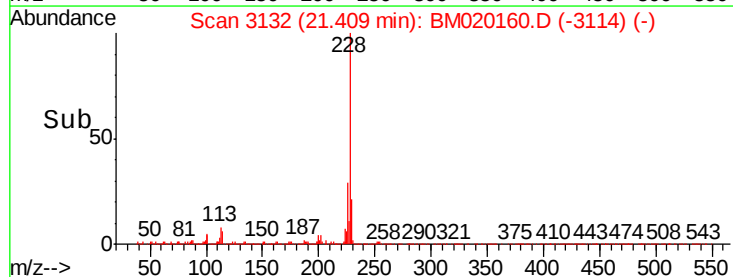
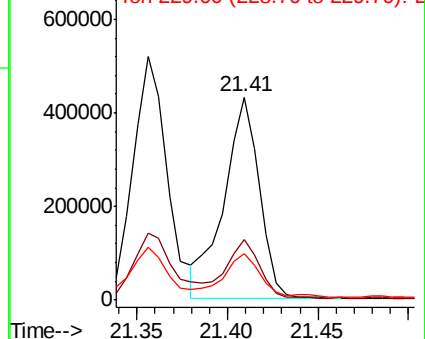
228 100

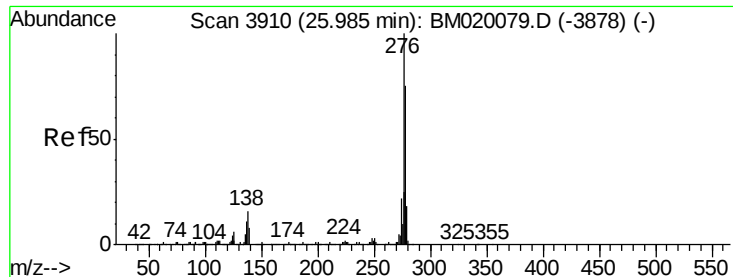
226 29.7 23.0 34.6

229 22.9 15.5 23.3



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: 7.271 ng

RT: 26.01 min Scan# 3915

Delta R.T. 0.03 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampleId :

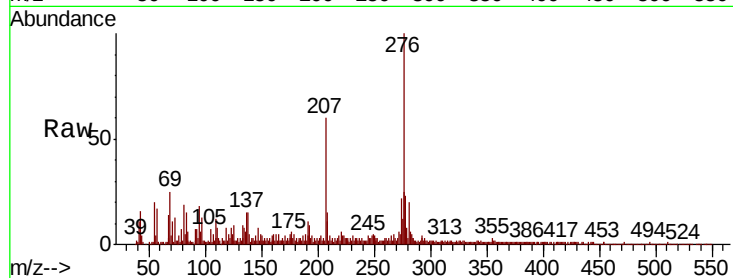
Tot Ion:276 Resp: 487752

Ion Ratio Lower Upper

276 100

138 13.7 0.0 0.0#

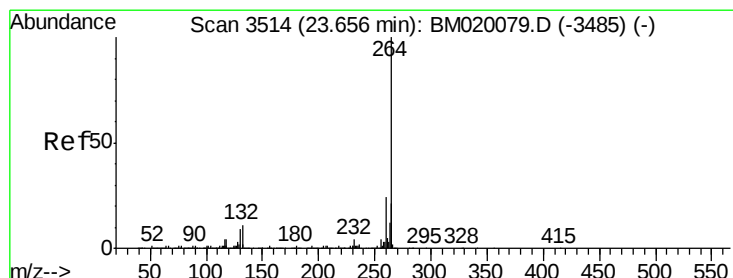
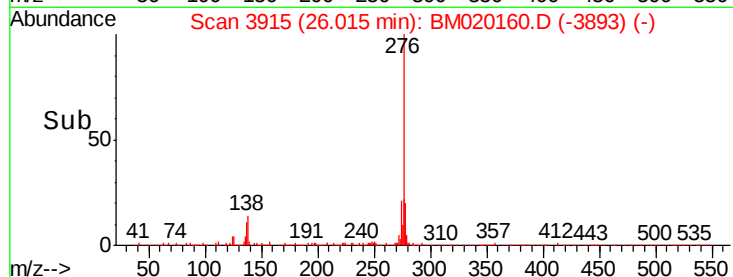
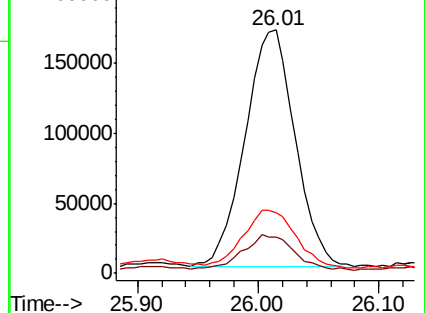
277 24.1 0.0 0.0#



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

Perylene-d12

Concen: 20.000 ng

RT: 23.67 min Scan# 3517

Delta R.T. 0.02 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

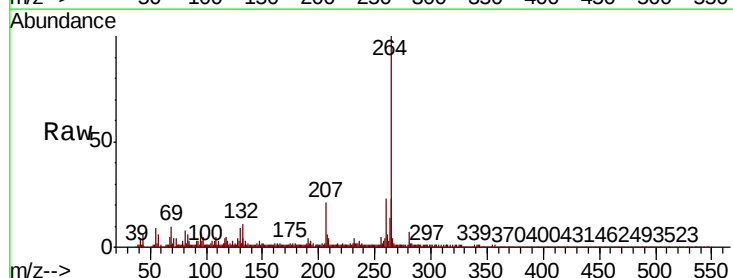
Tgt Ion:264 Resp: 962248

Ion Ratio Lower Upper

264 100

260 23.4 19.2 28.8

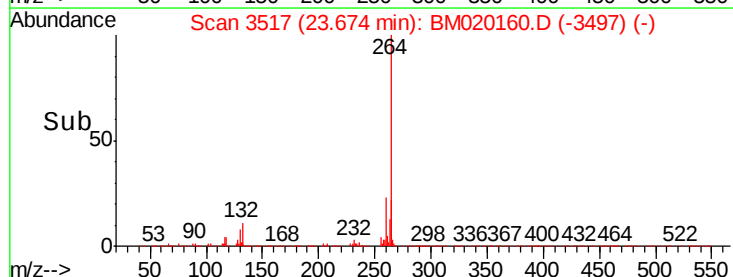
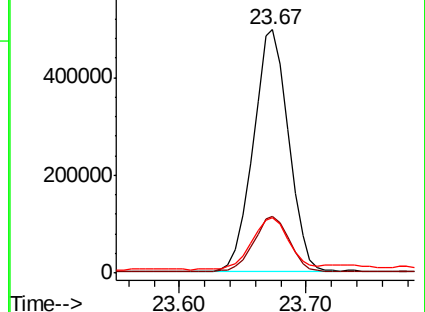
265 22.9 16.9 25.3

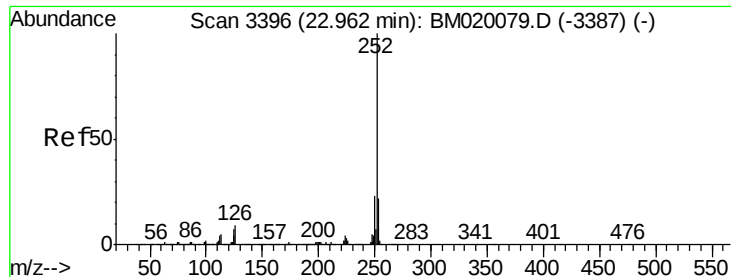


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 19.572 ng

RT: 22.98 min Scan# 3399

Delta R.T. 0.02 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampled :

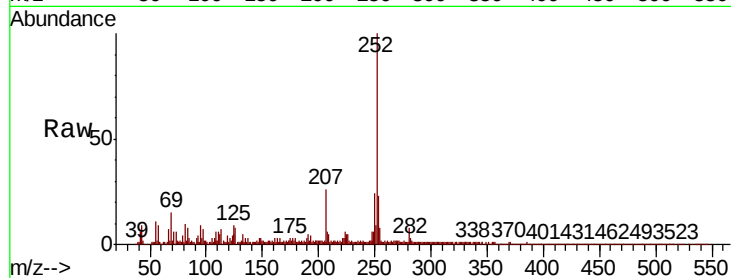
Tot Ion:252 Resp: 1243643

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

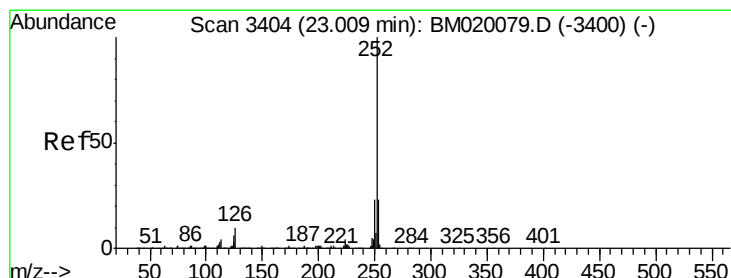
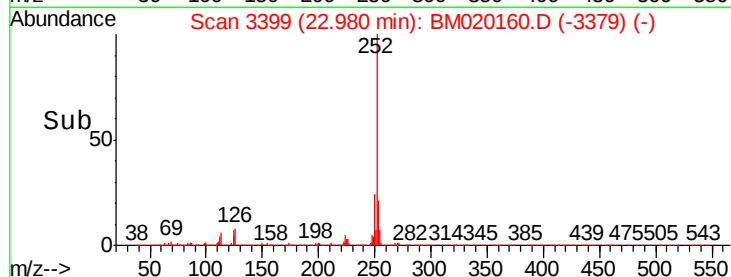
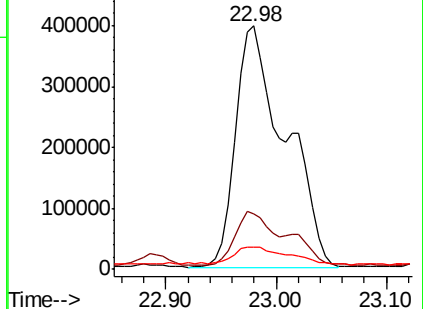
125 9.3 5.4 8.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 21.339 ng

RT: 22.98 min Scan# 3399

Delta R.T. -0.03 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

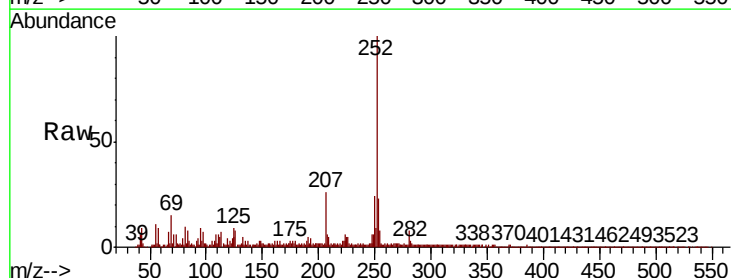
Tgt Ion:252 Resp: 1236853

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.8

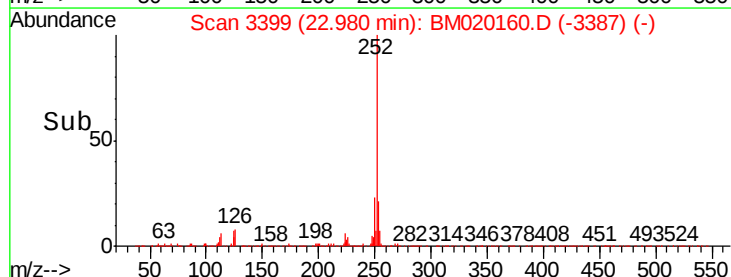
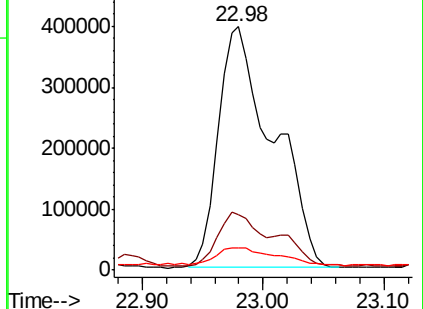
125 9.3 5.4 8.0#

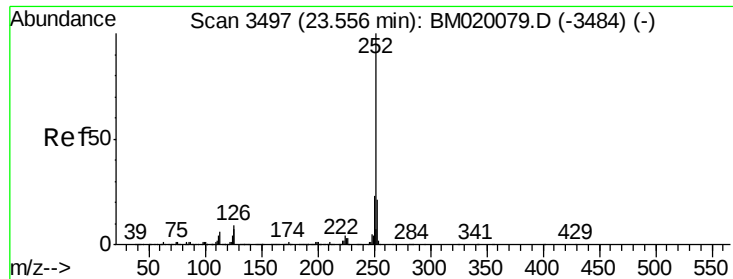


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 11.743 ng

RT: 23.57 min Scan# 3499

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

Instrument :

BNA_M

ClientSampled :

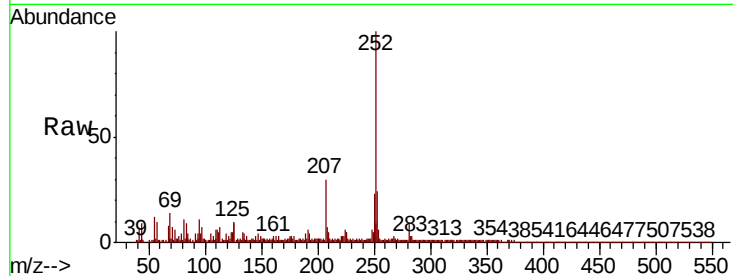
Tot Ion:252 Resp: 677768

Ion Ratio Lower Upper

252 100

253 24.3 17.0 25.6

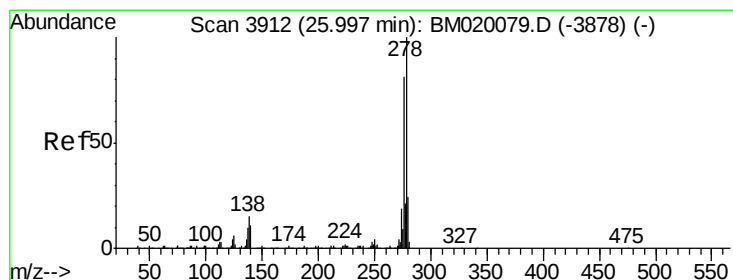
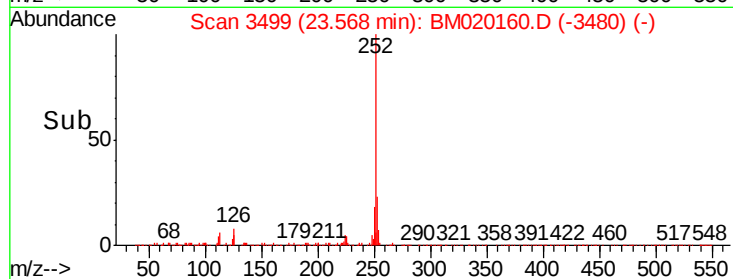
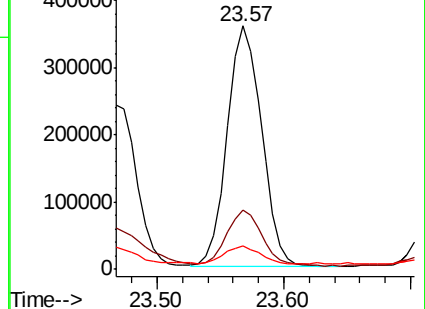
125 9.6 5.5 8.3#



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: 2.136 ng

RT: 26.01 min Scan# 3914

Delta R.T. 0.01 min

Lab File: BM020160.D

Acq: 07 May 2019 08:50

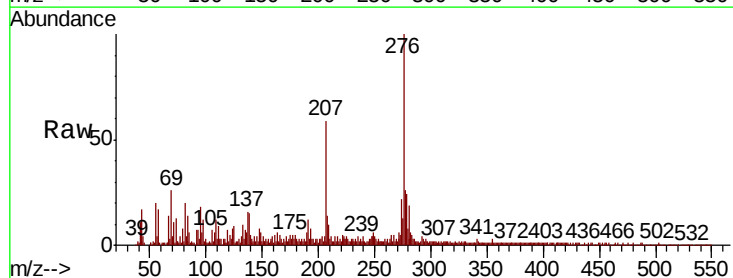
Tgt Ion:278 Resp: 128238

Ion Ratio Lower Upper

278 100

139 22.3 8.6 13.0#

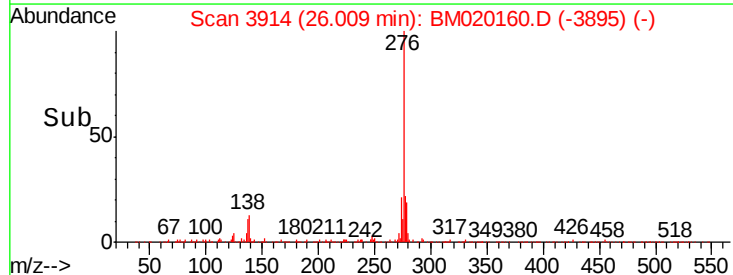
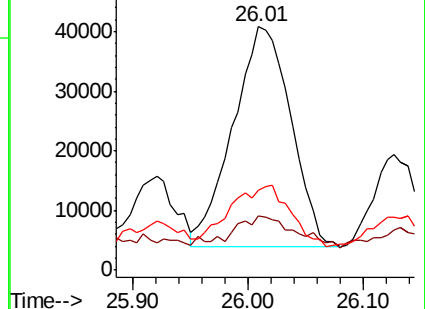
279 32.5 18.8 28.2#

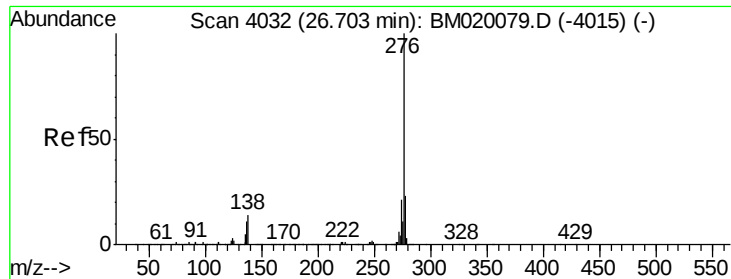


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

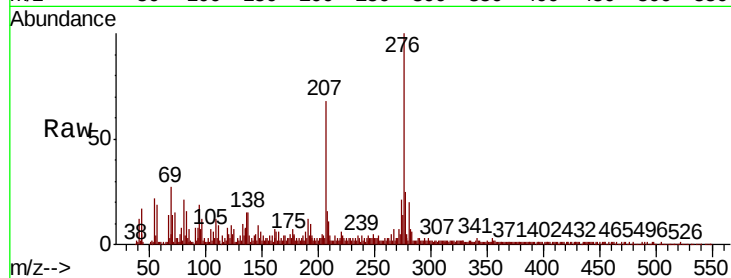




#92
 Benzo(a,h,i)perylene
 Concen: 8.371 ng
 RT: 26.73 min Scan# 4037
 Delta R.T. 0.03 min
 Lab File: BM020160.D
 Acq: 07 May 2019 08:50

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.4	27.6
138	15.3	11.1	16.7



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

