

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
 Data File : BM016238.D
 Acq On : 08 Aug 2018 04:08
 Operator : SJ/JU
 Sample : J4310-03 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Aug 08 06:50:44 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 07 16:15:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.13	152	51329	20.00	ng	0.00
21) Naphthalene-d8	10.95	136	223043	20.00	ng	0.00
38) Acenaphthene-d10	14.77	164	123602	20.00	ng	0.00
63) Phenanthrene-d10	17.51	188	283747	20.00	ng	0.00
75) Chrysene-d12	21.64	240	314040	20.00	ng	0.00
86) Perylene-d12	23.98	264	261133	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.66	112	45922	14.86	ng	0.00
7) Phenol-d6	7.30	99	63386	15.71	ng	0.00
23) Nitrobenzene-d5	9.32	82	37423	7.80	ng	0.00
41) 2,4,6-Tribromophenol	16.26	330	22034	14.06	ng	0.00
44) 2-Fluorobiphenyl	13.39	172	84118	8.28	ng	0.00
78) Terphenyl-d14	20.09	244	139323	9.29	ng	0.00

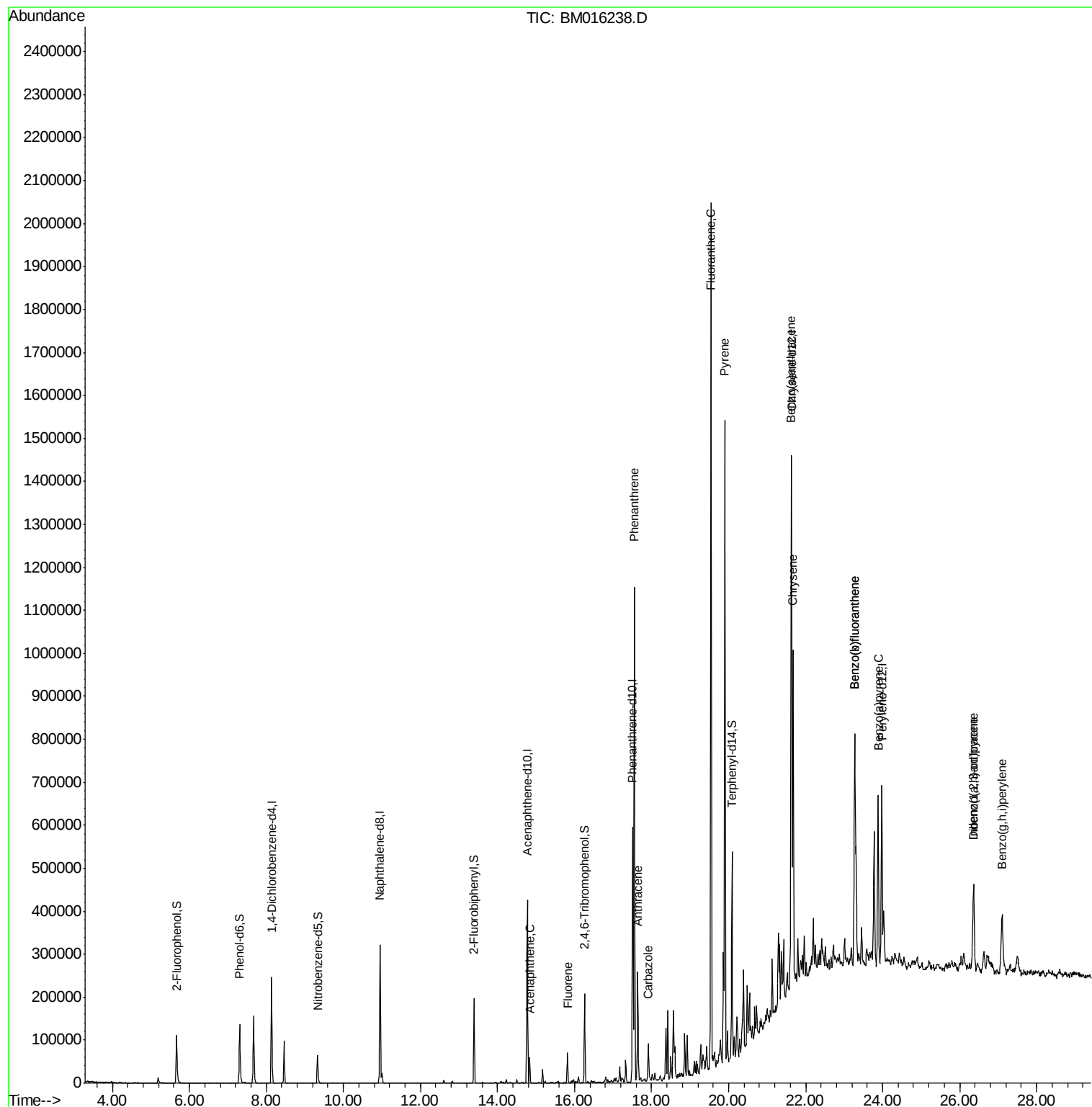
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) Acenaphthene	14.83	154	18777	2.404	ng	89
57) Fluorene	15.82	166	26053	2.724	ng	# 91
70) Phenanthrene	17.55	178	574619	36.172	ng	99
71) Anthracene	17.64	178	129657	8.398	ng	99
72) Carbazole	17.92	167	41130	2.571	ng	96
74) Fluoranthene	19.54	202	973277	54.924	ng	99
77) Pyrene	19.90	202	760588	40.415	ng	99
80) Benzo(a)anthracene	21.62	228	439579	22.727	ng	99
82) Chrysene	21.67	228	366762	19.767	ng	98
85) Indeno(1,2,3-cd)pyrene	26.36	276	161927	7.355	ng	# 96
87) Benzo(b)fluoranthene	23.27	252	412158	26.807	ng	# 96
88) Benzo(k)fluoranthene	23.27	252	409962	26.311	ng	97
89) Benzo(a)pyrene	23.88	252	265040	17.932	ng	99
90) Dibenzo(a,h)anthracene	26.36	278	49908	3.259	ng	94
91) Benzo(a,h,i)perylene	27.10	276	146792	10.135	ng	# 91

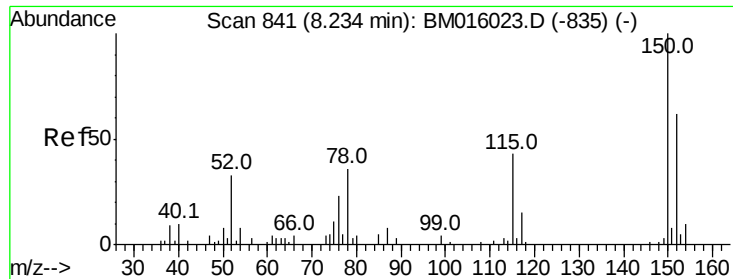
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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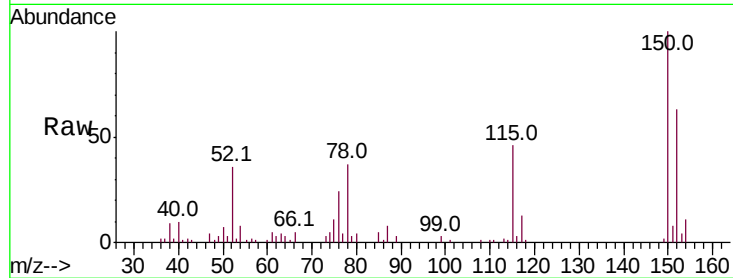


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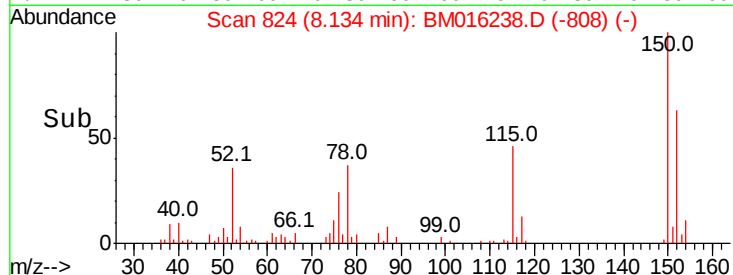
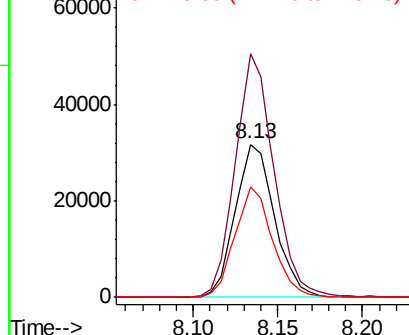
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.13 min Scan# 824
Delta R.T. -0.01 min
Lab File: BM016238.D
Acq: 08 Aug 2018 04:08

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 51329
Ion Ratio Lower Upper
152 100
150 158.8 119.5 179.3
115 72.5 43.0 64.4#



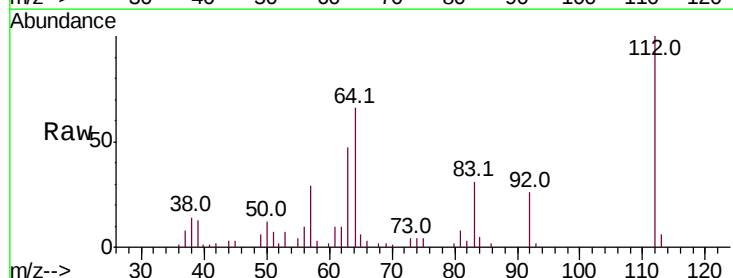
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



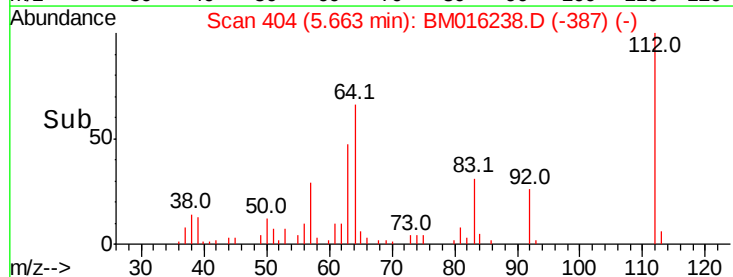
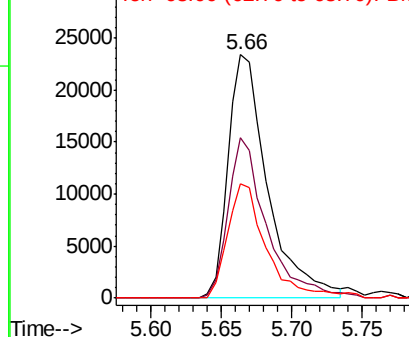
#5

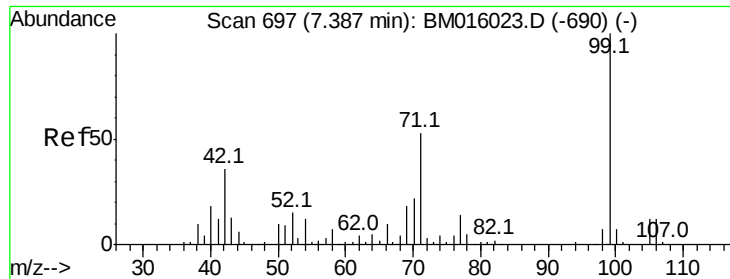
2-Fluorophenol
Concen: N.D. ng
RT: 5.66 min Scan# 404
Delta R.T. 0.00 min
Lab File: BM016238.D
Acq: 08 Aug 2018 04:08

Tgt Ion:112 Resp: 45922
Ion Ratio Lower Upper
112 100
64 66.0 38.6 57.8#
63 46.8 19.3 28.9#



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: N.D. ng

RT: 7.30 min Scan# 683

Delta R.T. 0.00 min

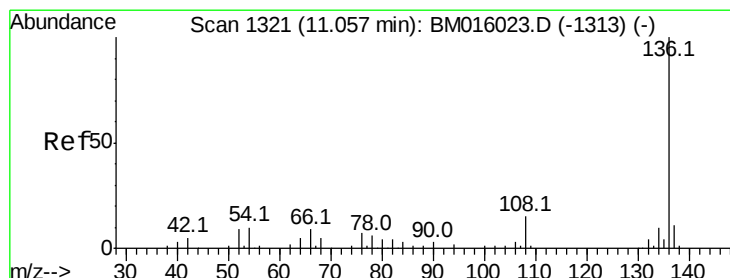
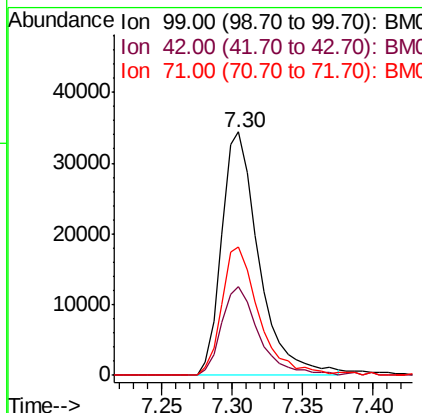
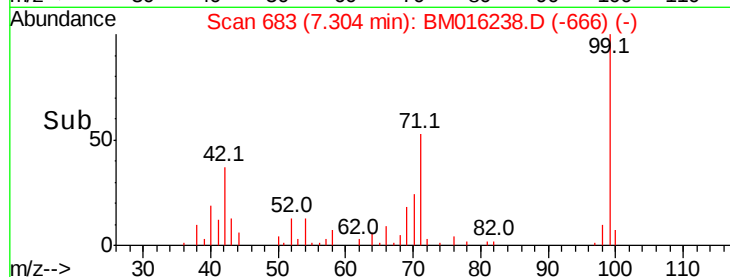
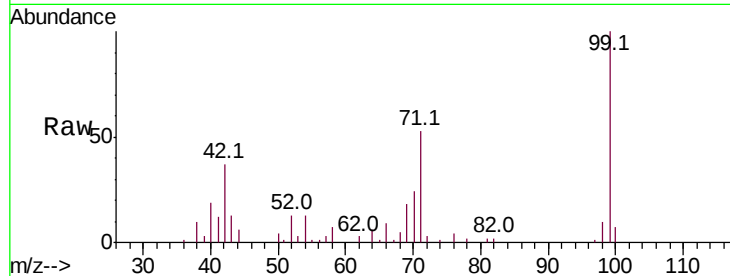
Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Instrument :
BNA_M
ClientSampled :

Tot Ion: 99 Resp: 63386

Ion	Ratio	Lower	Upper
99	100		
42	36.6	11.0	16.4#
71	52.7	23.4	35.2#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.95 min Scan# 1303

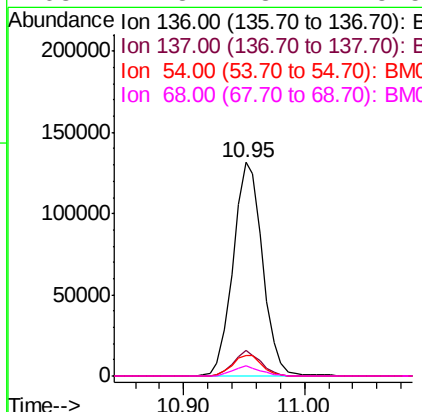
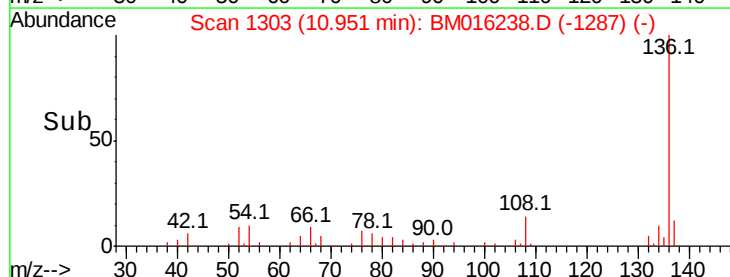
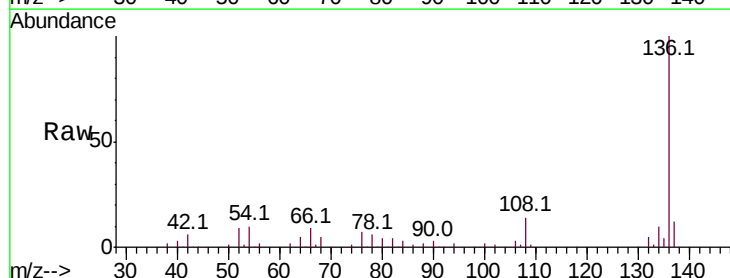
Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Tgt Ion: 136 Resp: 223043

Ion	Ratio	Lower	Upper
136	100		
137	12.1	8.7	13.1
54	9.9	4.6	6.8#
68	4.8	3.7	5.5

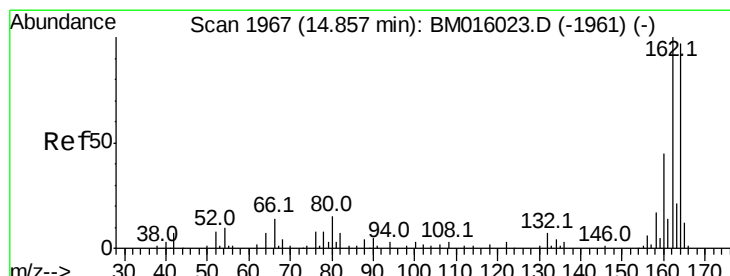
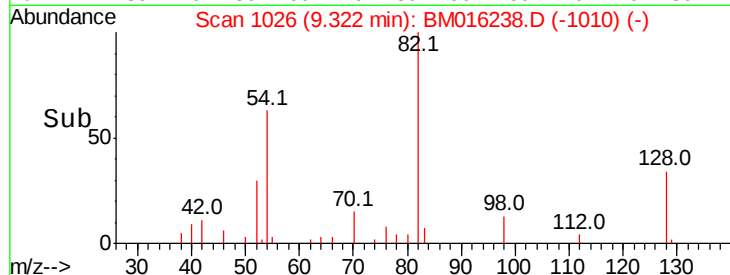
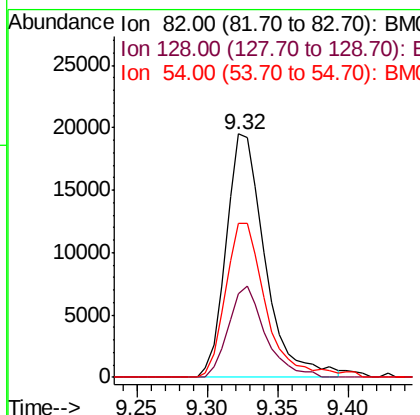
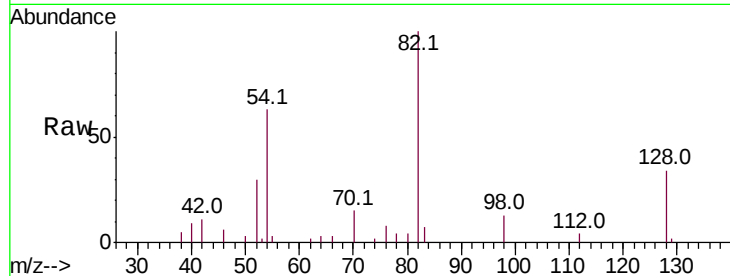




#23
 Nitrobenzene-d5
 Concen: N.D. ng
 RT: 9.32 min Scan# 1026
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

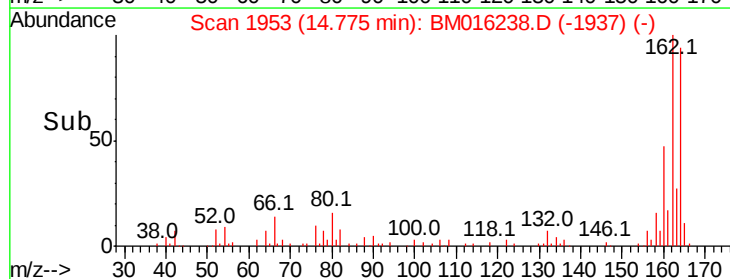
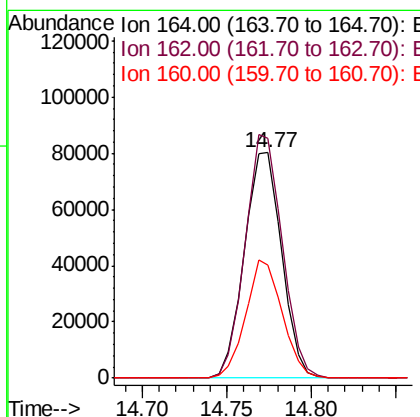
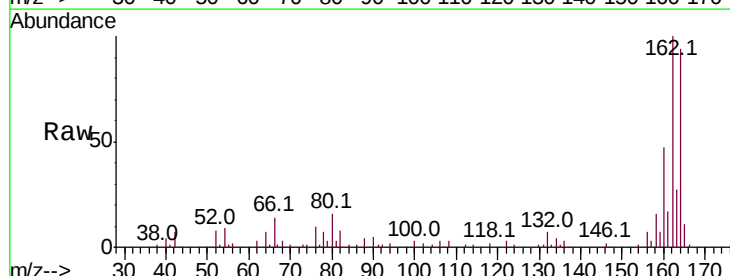
Instrument :
 BNA_M
 ClientSampled :

Tot Ion: 82 Resp: 37423
 Ion Ratio Lower Upper
 82 100
 128 34.3 32.8 49.2
 54 63.4 40.6 60.8#



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.77 min Scan# 1953
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

Tgt Ion:164 Resp: 123602
 Ion Ratio Lower Upper
 164 100
 162 106.3 82.4 123.6
 160 50.3 35.8 53.6

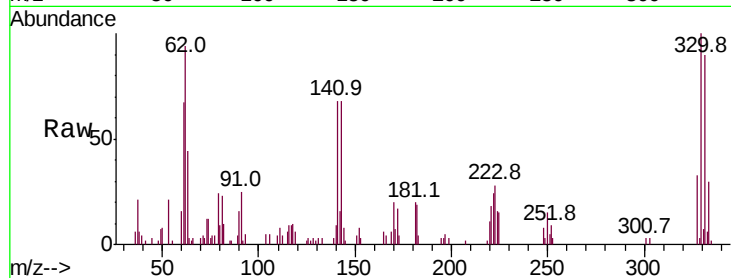




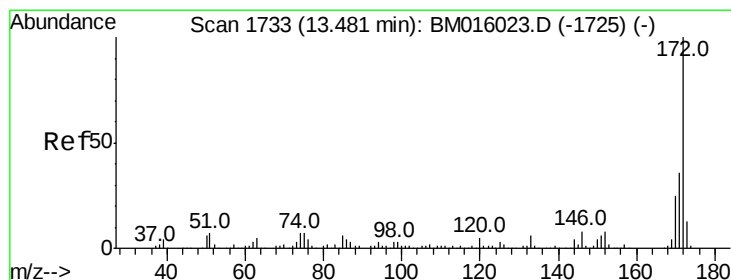
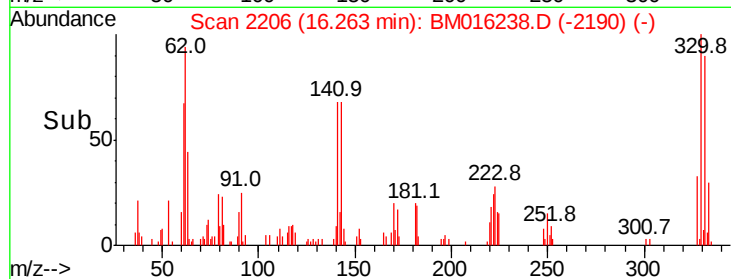
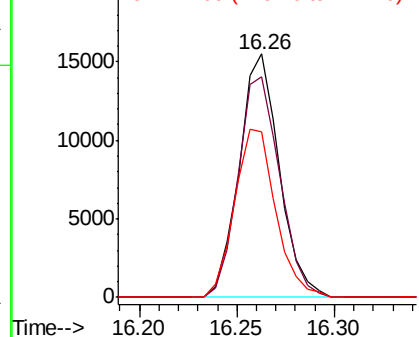
#41
 2,4,6-Tribromophenol
 Concen: N.D. ng
 RT: 16.26 min Scan# 2206
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

Instrument :
 BNA_M
 ClientSampled :

Tot Ion:330 Resp: 22034
 Ion Ratio Lower Upper
 330 100
 332 94.2 0.0 0.0#
 141 71.0 0.0 0.0#

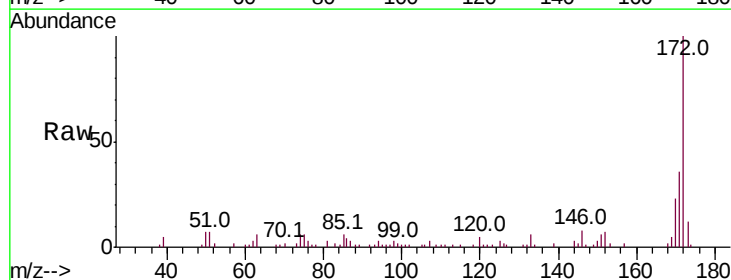


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

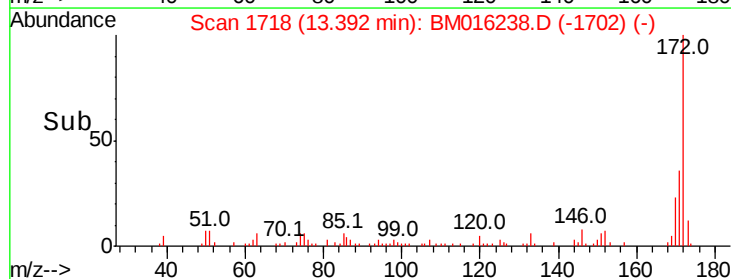
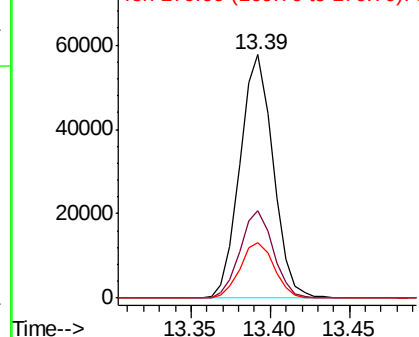


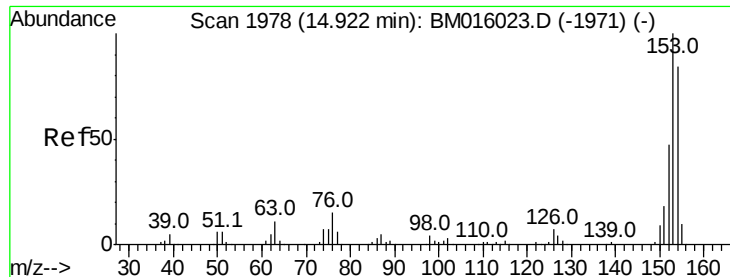
#44
 2-Fluorobiphenyl
 Concen: N.D. ng
 RT: 13.39 min Scan# 1718
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

Tgt Ion:172 Resp: 84118
 Ion Ratio Lower Upper
 172 100
 171 36.0 28.5 42.7
 170 22.7 18.8 28.2



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





#51

Acenaphthene

Concen: 2.404 ng

RT: 14.83 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Instrument :

BNA_M

ClientSampleId :

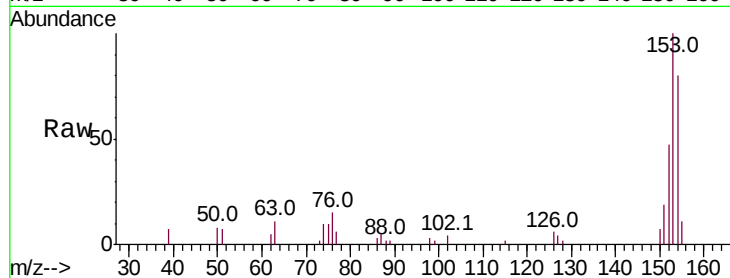
Tot Ion:154 Resp: 18777

Ion Ratio Lower Upper

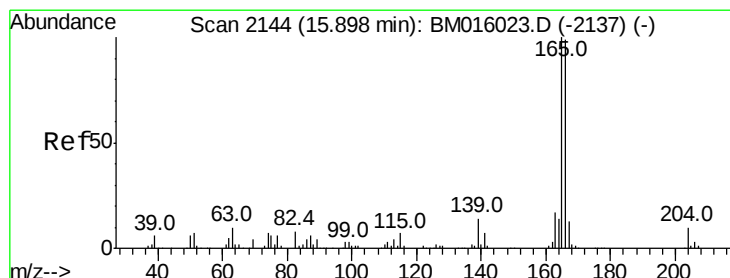
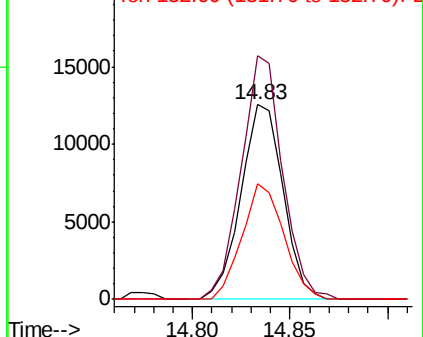
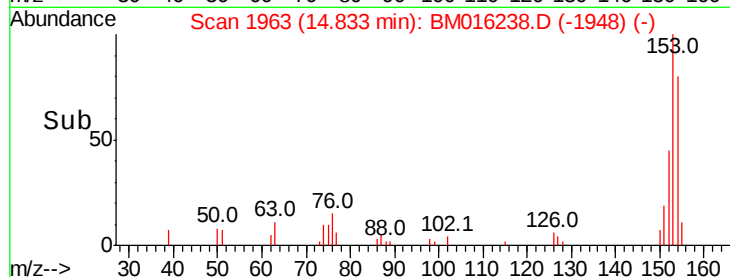
154 100

153 125.2 90.0 135.0

152 59.4 42.6 63.8



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



#57

Fluorene

Concen: 2.724 ng

RT: 15.82 min Scan# 2130

Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

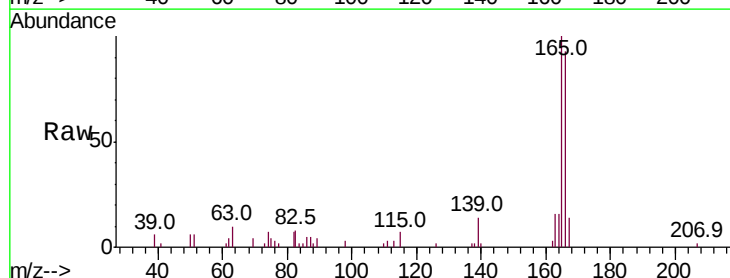
Tgt Ion:166 Resp: 26053

Ion Ratio Lower Upper

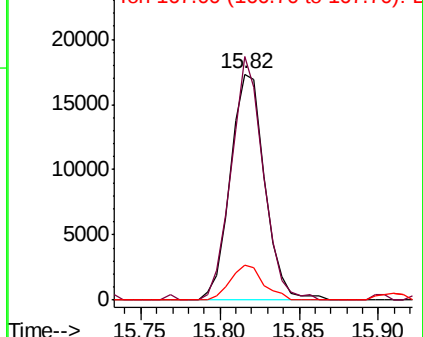
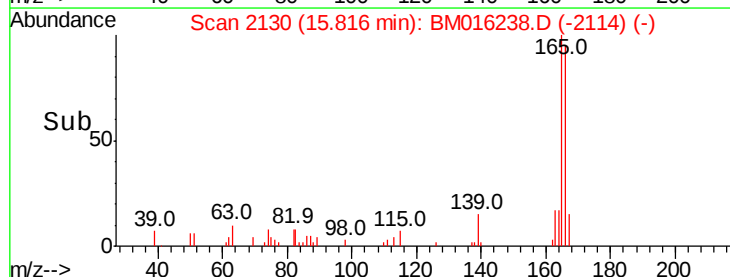
166 100

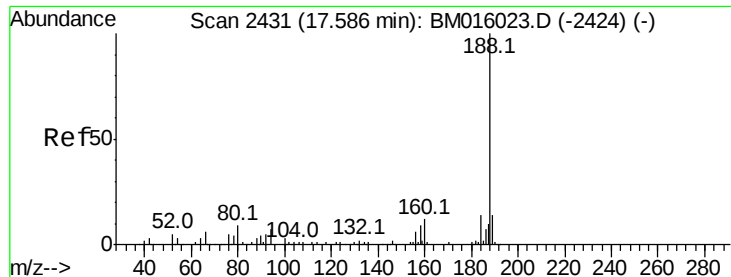
165 107.9 79.0 118.4

167 15.5 10.3 15.5#



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

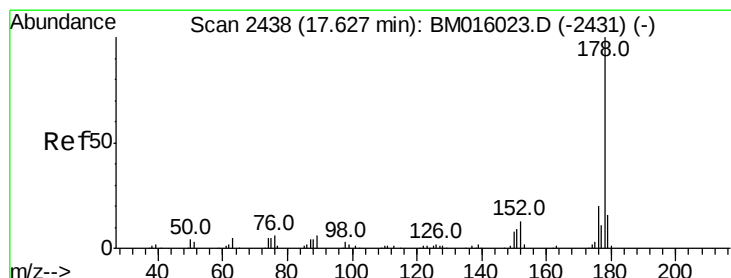
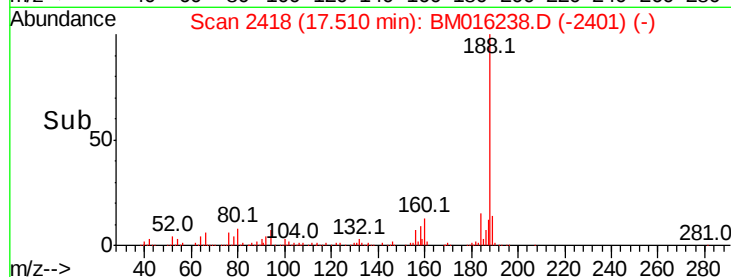
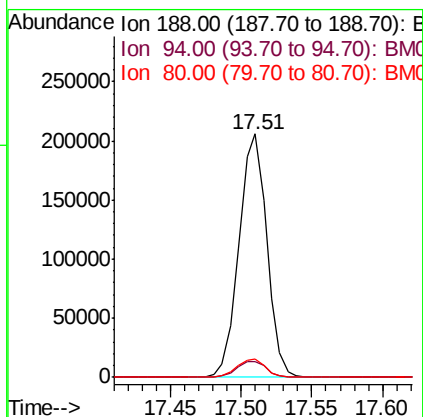
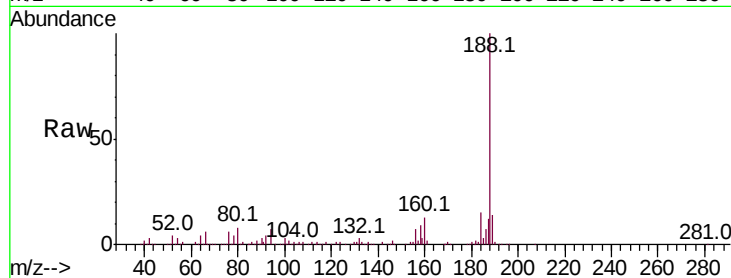




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.51 min Scan# 2418
Delta R.T. 0.00 min
Lab File: BM016238.D
Acq: 08 Aug 2018 04:08

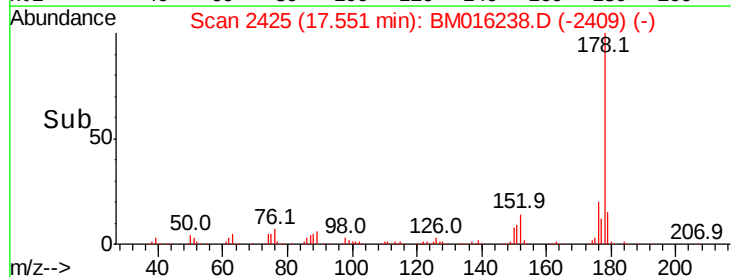
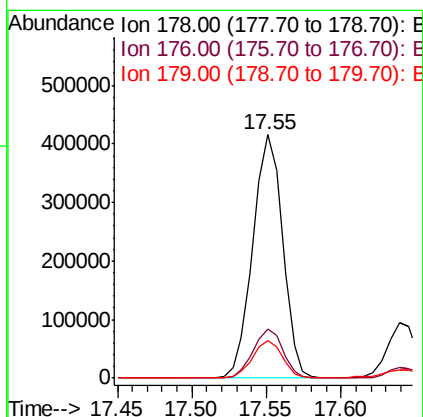
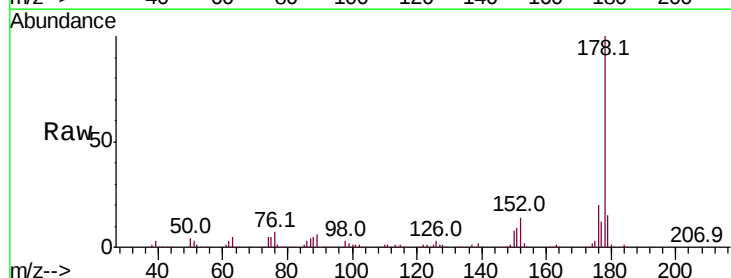
Instrument :
BNA_M
ClientSampled :

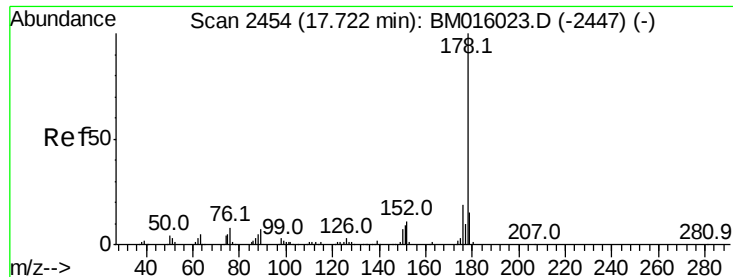
Tot Ion:188 Resp: 283747
Ion Ratio Lower Upper
188 100
94 6.6 8.7 13.1#
80 7.7 9.3 13.9#



#70
Phenanthrene
Concen: 36.172 ng
RT: 17.55 min Scan# 2425
Delta R.T. -0.01 min
Lab File: BM016238.D
Acq: 08 Aug 2018 04:08

Tgt Ion:178 Resp: 574619
Ion Ratio Lower Upper
178 100
176 20.1 15.2 22.8
179 15.2 12.1 18.1

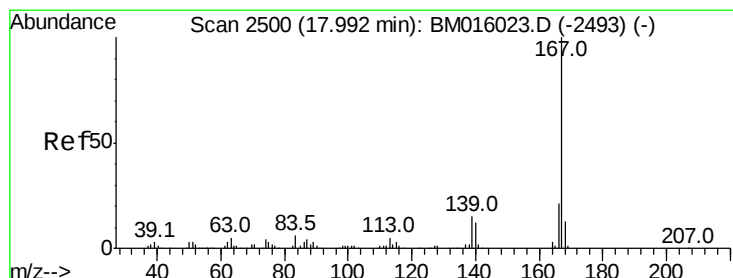
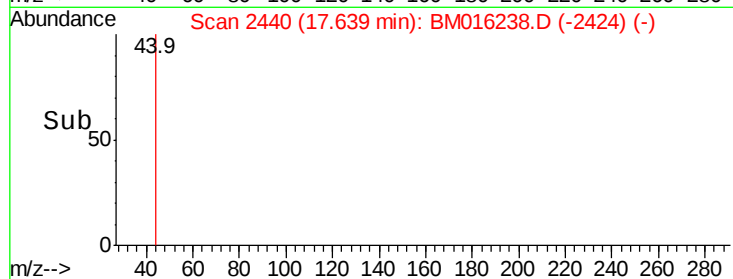
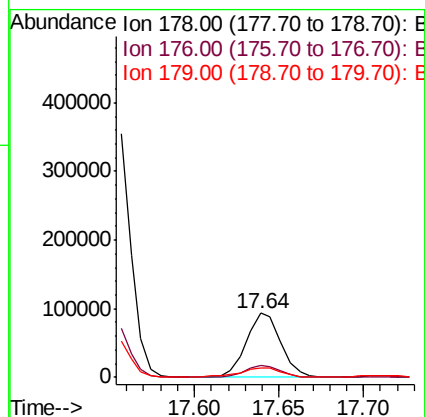
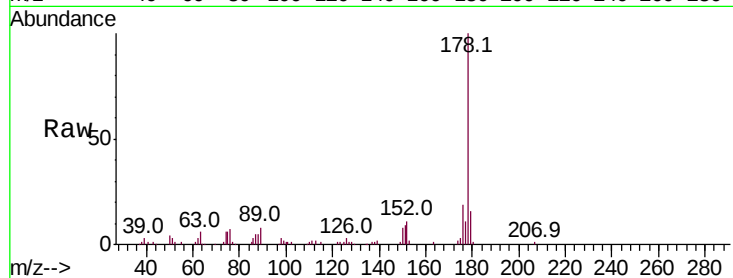




#71
 Anthracene
 Concen: 8.398 ng
 RT: 17.64 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

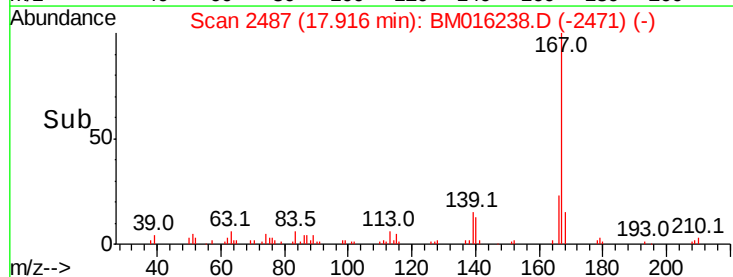
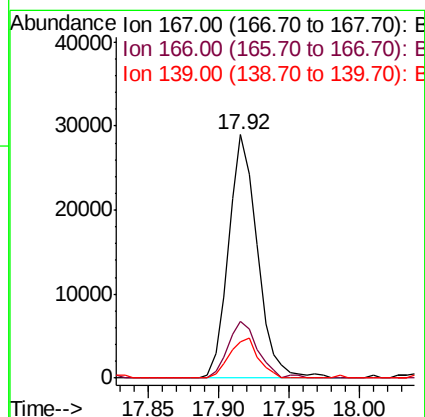
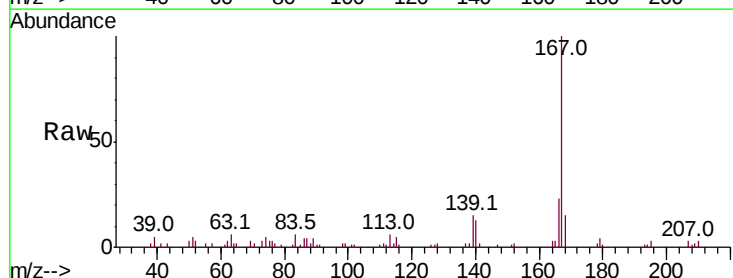
Instrument :
 BNA_M
 ClientSampleId :

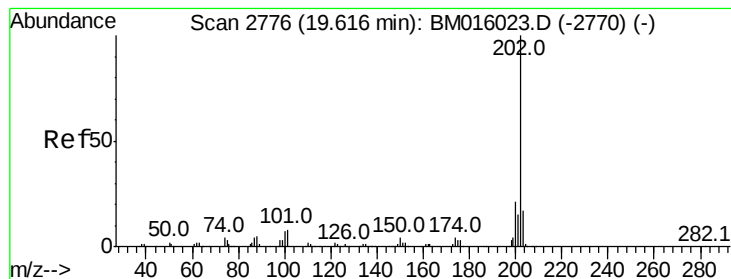
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.5	12.6	19.0



#72
 Carbazole
 Concen: 2.571 ng
 RT: 17.92 min Scan# 2487
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.2	25.8
139	14.7	10.8	16.2





#74

Fluoranthene

Concen: 54.924 ng

RT: 19.54 min Scan# 2764

Delta R.T. 0.00 min

Lab File: BM016238.D

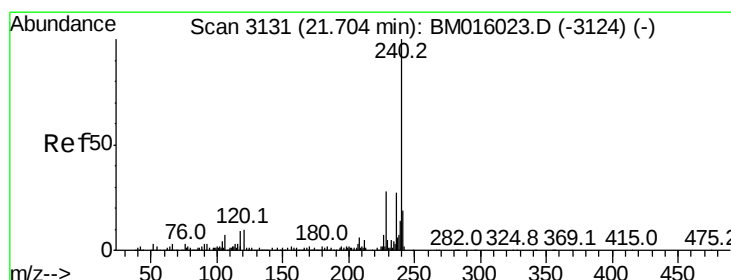
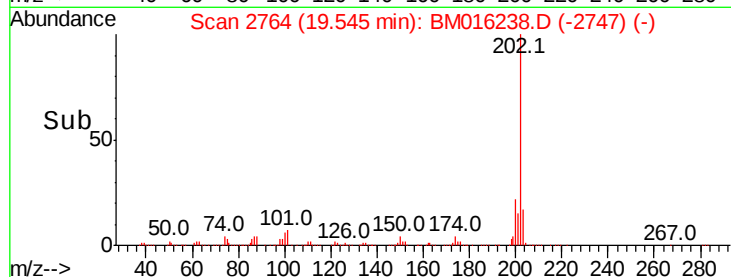
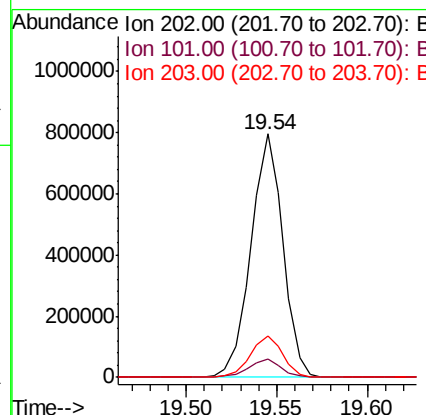
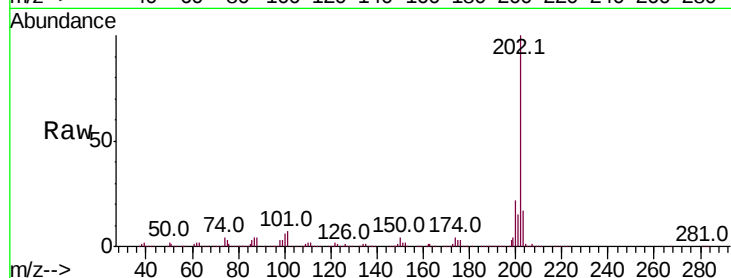
Acq: 08 Aug 2018 04:08

Instrument :

BNA_M

ClientSampleId :

Tot Ion:	202	Resp:	973277
Ion	Ratio	Lower	Upper
202	100		
101	7.5	0.0	28.7
203	17.2	0.0	37.2



#75

Chrysene-d12

Concen: 20.000 ng

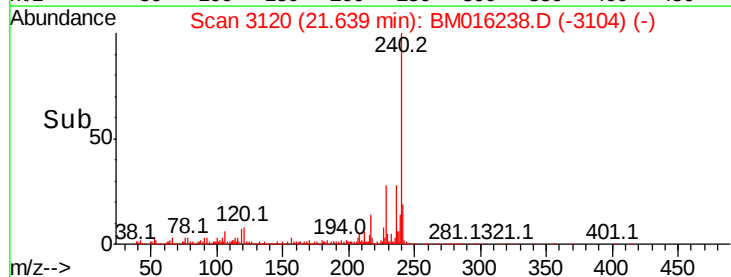
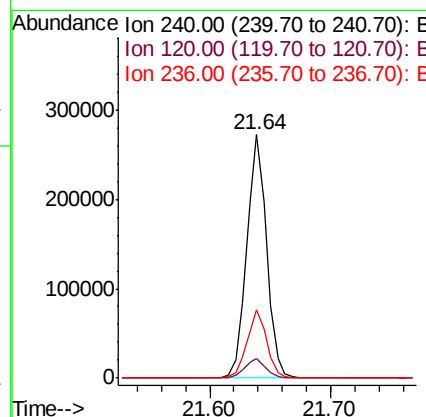
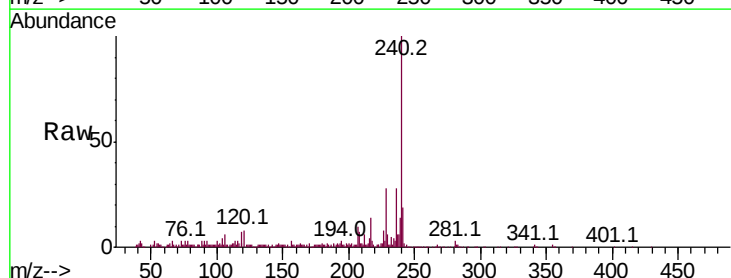
RT: 21.64 min Scan# 3120

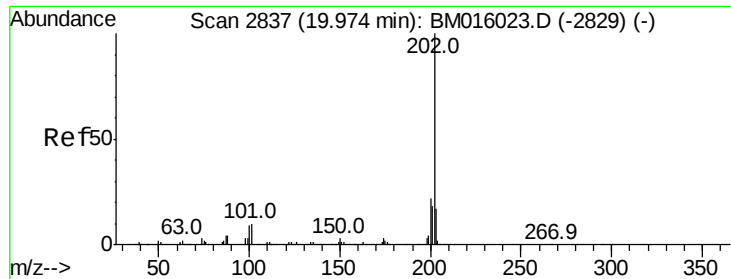
Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Tgt Ion:	240	Resp:	314040
Ion	Ratio	Lower	Upper
240	100		
120	8.0	8.2	12.2#
236	27.8	20.0	30.0

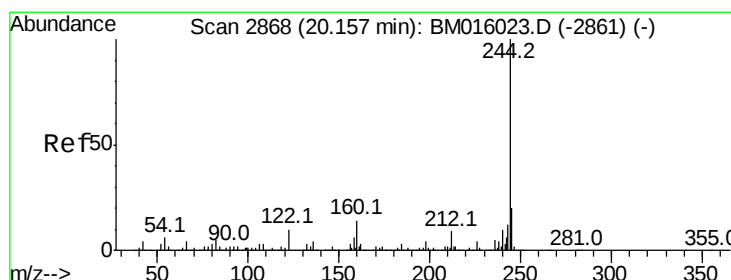
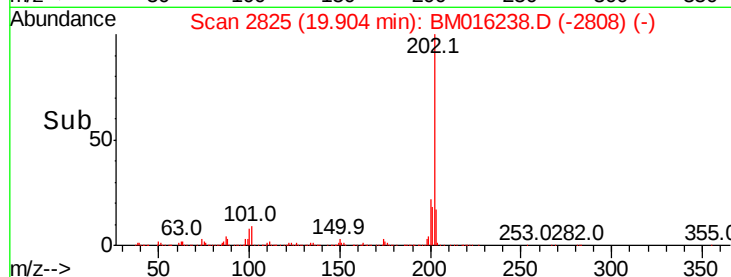
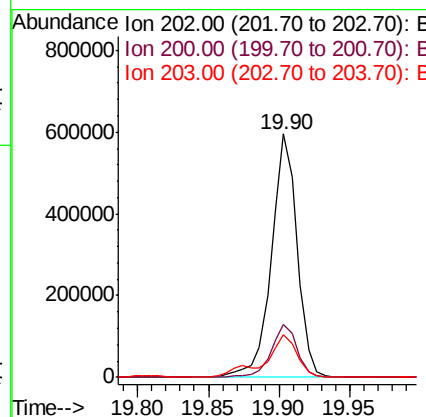
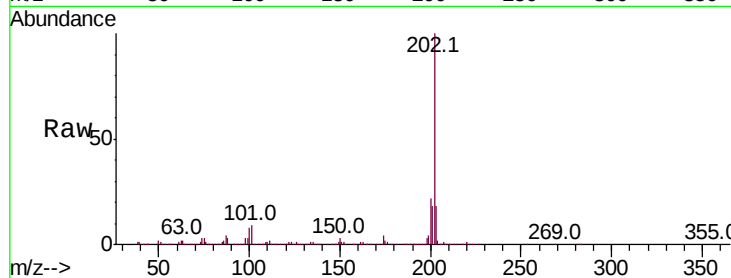




#77
Pvrene
Concen: 40.415 ng
RT: 19.90 min Scan# 2825
Delta R.T. 0.00 min
Lab File: BM016238.D
Acq: 08 Aug 2018 04:08

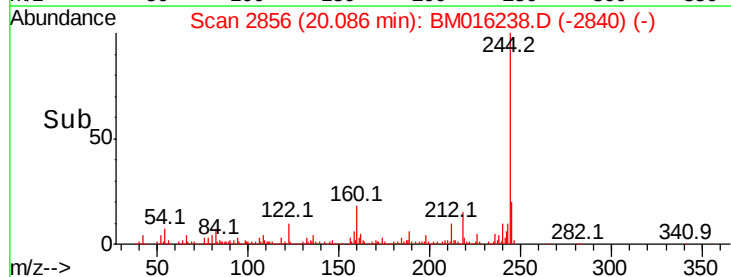
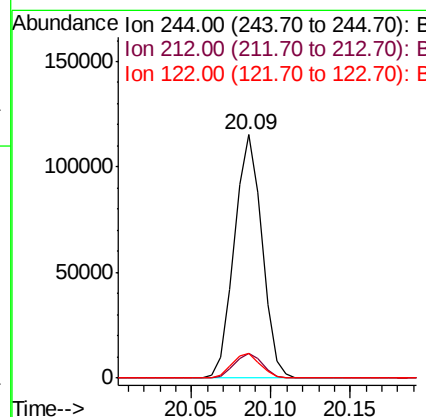
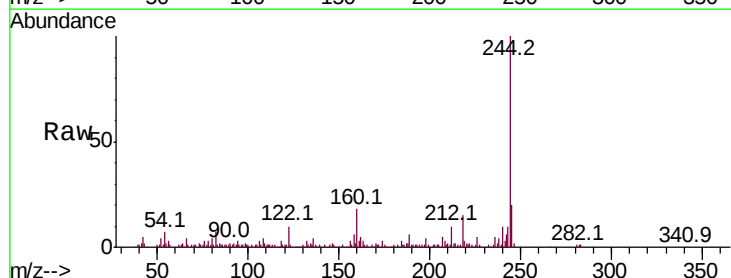
Instrument :
BNA_M
ClientSampleId :

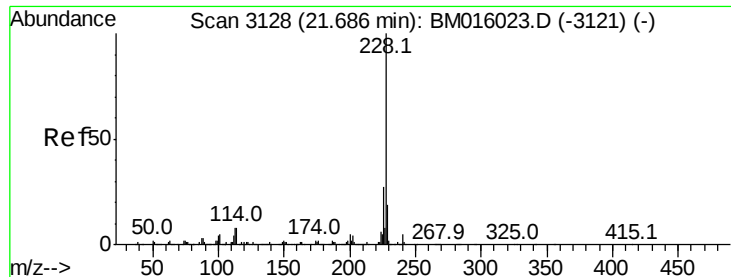
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.9	25.3
203	17.7	14.1	21.1



#78
Terphenyl-d14
Concen: 40.415 ng
RT: 20.09 min Scan# 2856
Delta R.T. -0.01 min
Lab File: BM016238.D
Acq: 08 Aug 2018 04:08

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	4.9	7.3#
122	10.1	6.2	9.4#





#80

Benzo(a)anthracene

Concen: 22.727 ng

RT: 21.62 min Scan# 3117

Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Instrument :

BNA_M

ClientSampleId :

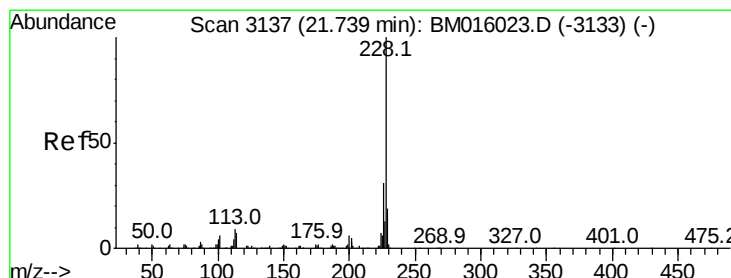
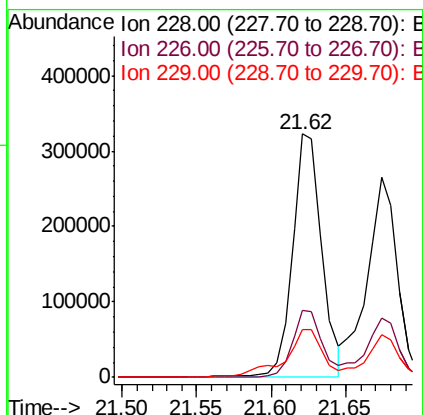
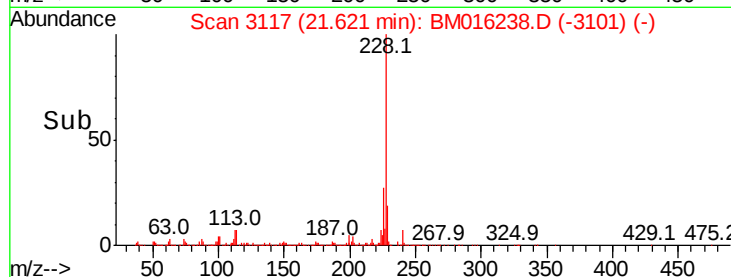
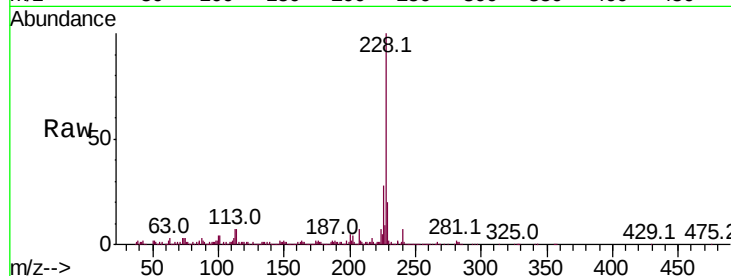
Tot Ion:228 Resp: 439579

Ion Ratio Lower Upper

228 100

226 27.6 21.7 32.5

229 19.8 16.0 24.0



#82

Chrysene

Concen: 19.767 ng

RT: 21.67 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

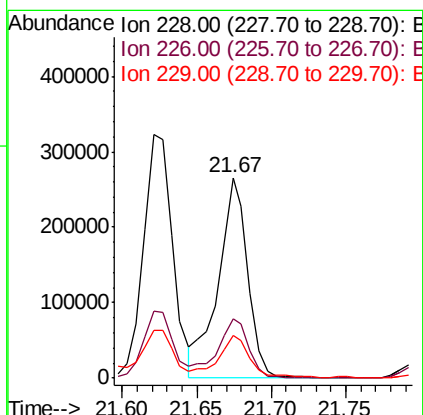
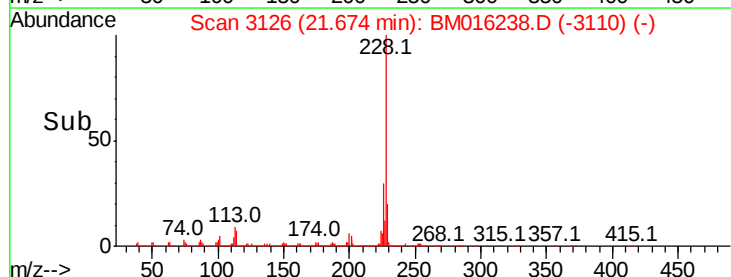
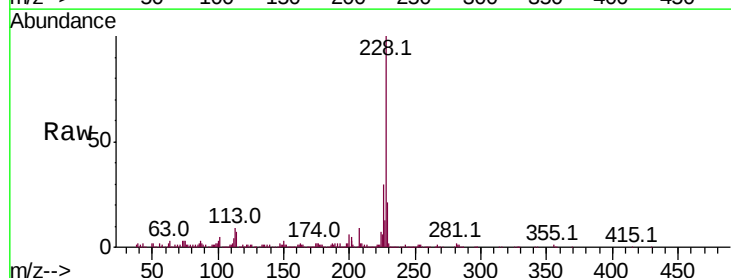
Tgt Ion:228 Resp: 366762

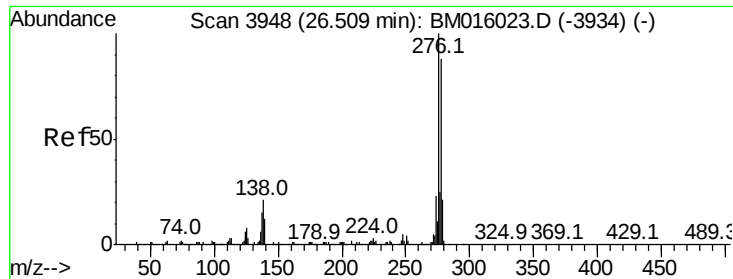
Ion Ratio Lower Upper

228 100

226 29.8 24.1 36.1

229 21.2 15.5 23.3

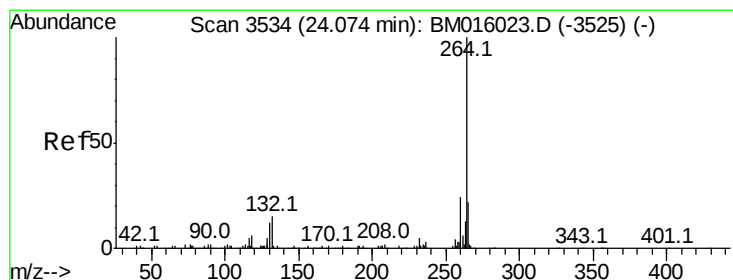
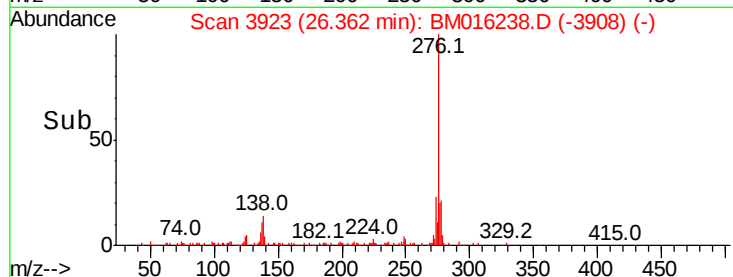
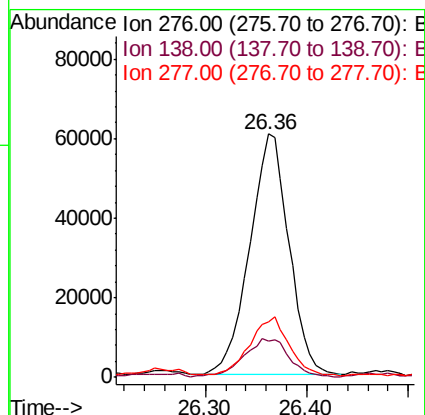
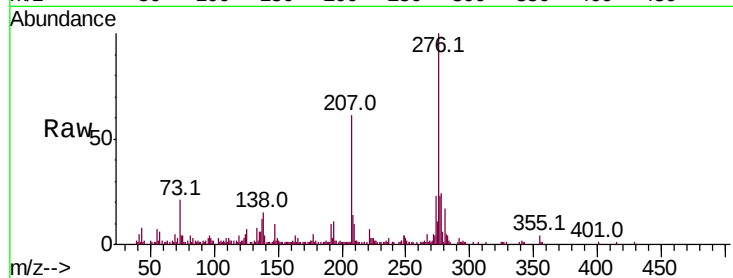




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.355 ng
 RT: 26.36 min Scan# 3923
 Delta R.T. -0.01 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

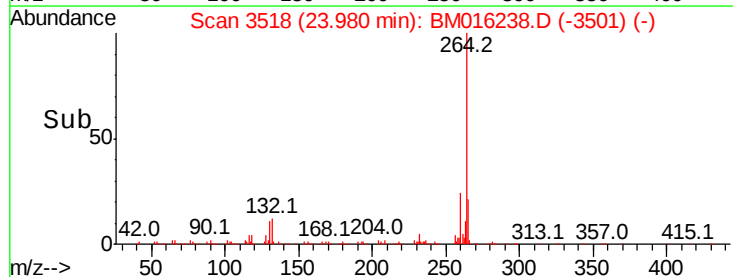
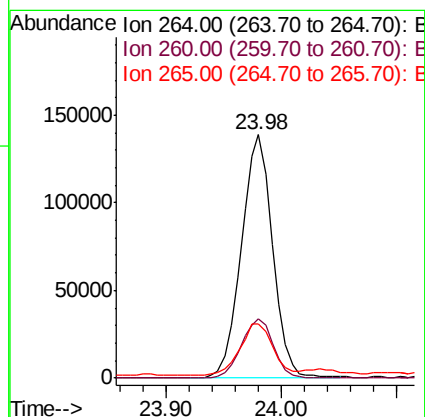
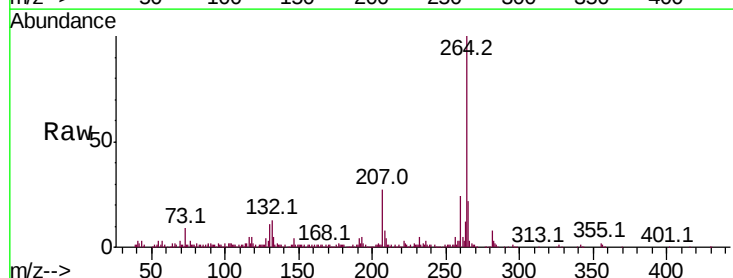
Instrument :
 BNA_M
 ClientSampleId :

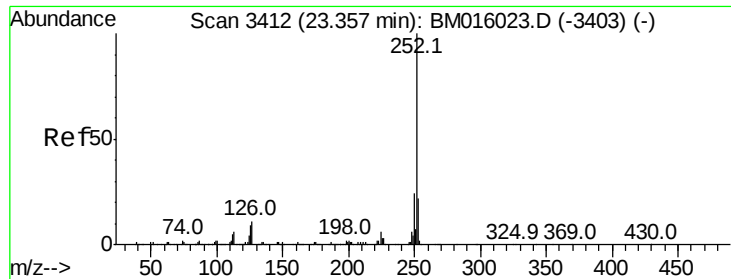
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.9	12.0	18.0#
277	24.7	20.0	30.0



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.98 min Scan# 3518
 Delta R.T. 0.00 min
 Lab File: BM016238.D
 Acq: 08 Aug 2018 04:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.6	27.8
265	22.3	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 26.807 ng

RT: 23.27 min Scan# 3398

Delta R.T. 0.00 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Instrument :

BNA_M

ClientSampled :

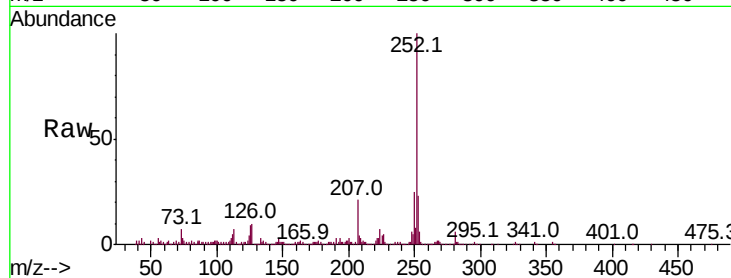
Tot Ion:252 Resp: 412158

Ion Ratio Lower Upper

252 100

253 22.7 18.0 27.0

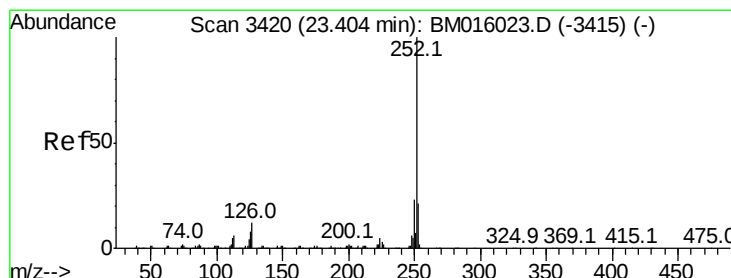
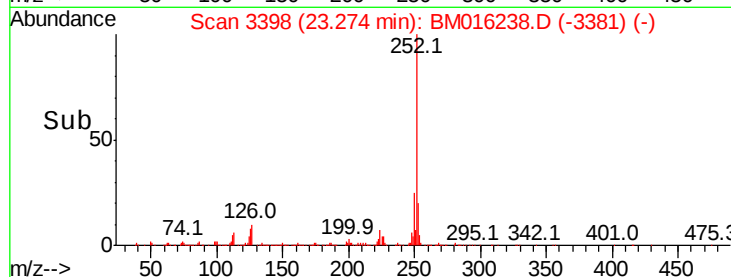
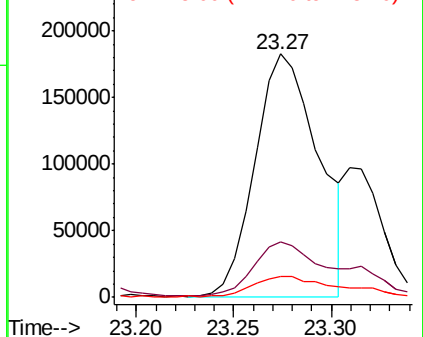
125 8.7 9.9 14.9#



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



#88

Benzo(k)fluoranthene

Concen: 26.311 ng

RT: 23.27 min Scan# 3398

Delta R.T. -0.05 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

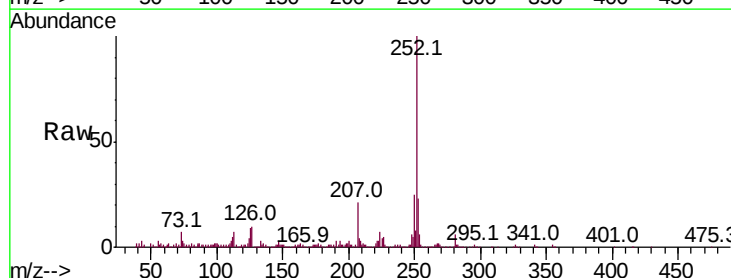
Tgt Ion:252 Resp: 409962

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

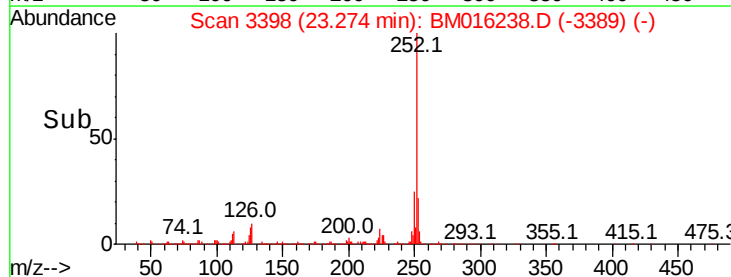
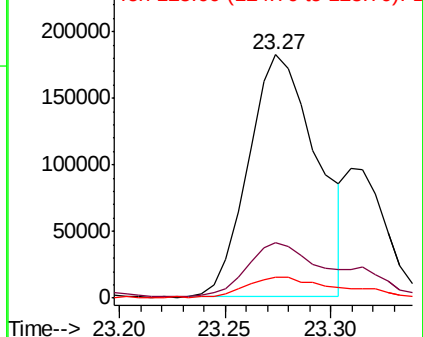
125 8.7 8.1 12.1

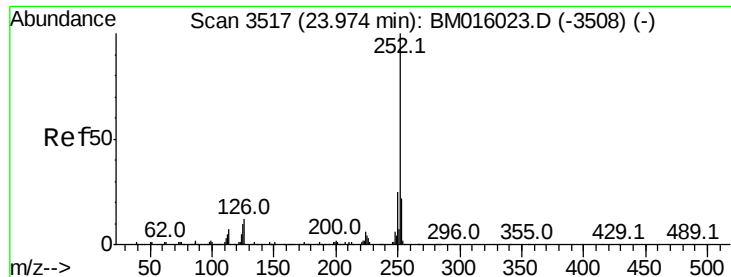


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 17.932 ng

RT: 23.88 min Scan# 3501

Delta R.T. 0.00 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Instrument :

BNA_M

ClientSampleId :

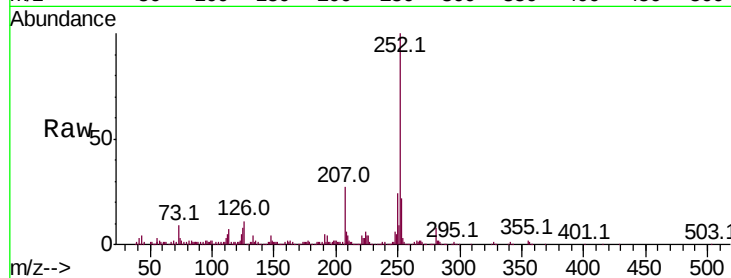
Tot Ion:252 Resp: 265040

Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

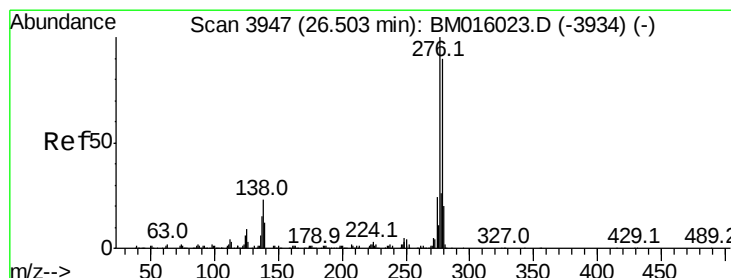
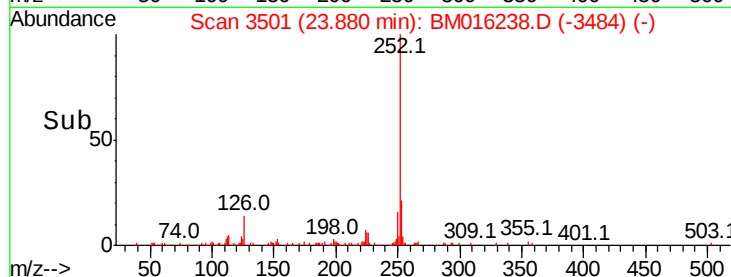
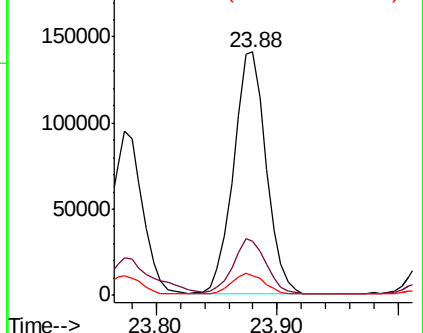
125 8.3 7.4 11.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.259 ng

RT: 26.36 min Scan# 3923

Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

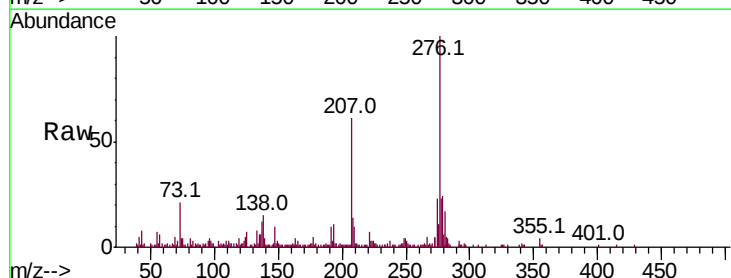
Tgt Ion:278 Resp: 49908

Ion Ratio Lower Upper

278 100

139 19.0 13.4 20.0

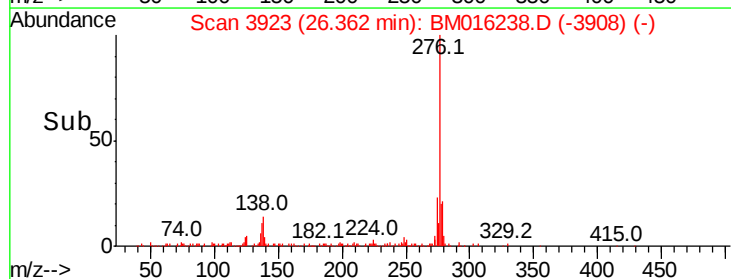
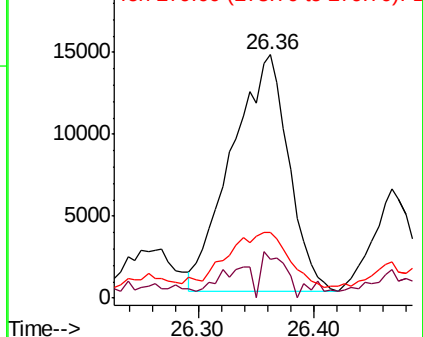
279 26.7 19.0 28.4

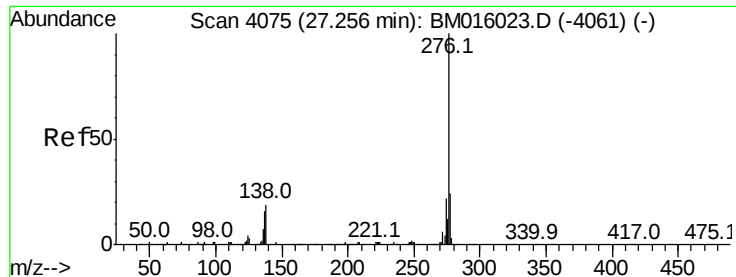


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 10.135 ng

RT: 27.10 min Scan# 4048

Delta R.T. -0.01 min

Lab File: BM016238.D

Acq: 08 Aug 2018 04:08

Instrument :

BNA_M

ClientSampleId :

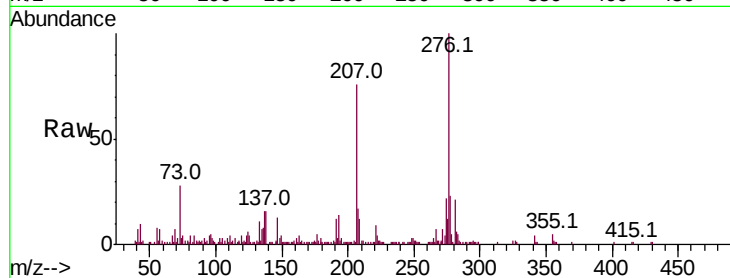
Tot Ion:276 Resp: 146792

Ion Ratio Lower Upper

276 100

277 23.3 18.5 27.7

138 15.7 19.0 28.6#



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

