

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072618\
 Data File : BM016077.D
 Acq On : 26 Jul 2018 18:08
 Operator : SJ/JU
 Sample : PB111401BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jul 27 04:57:41 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 23 16:08:38 2018
 Response via : Initial Calibration

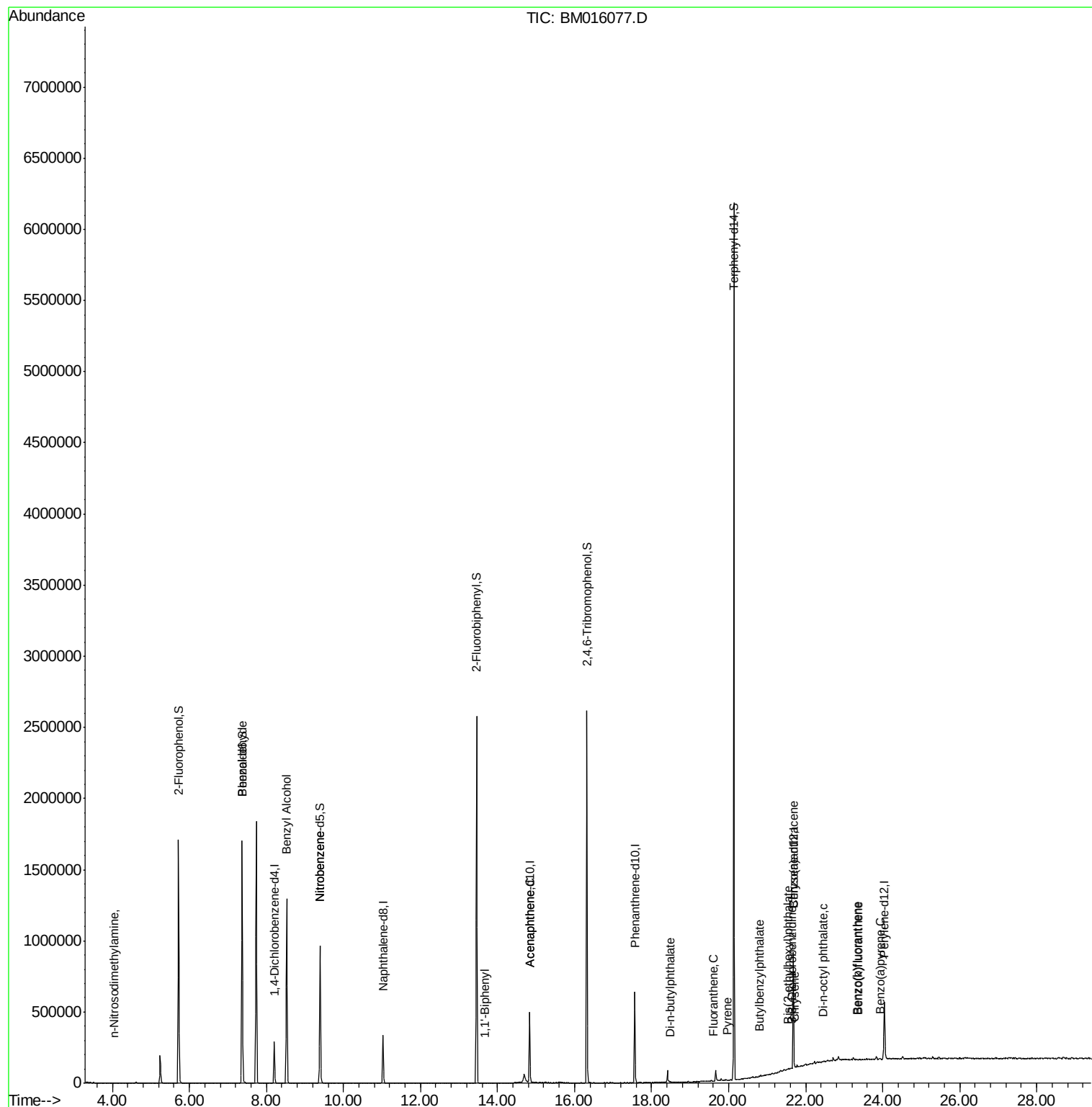
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	60620	20.00	ng	-0.03
21) Naphthalene-d8	11.03	136	232293	20.00	ng	-0.03
38) Acenaphthene-d10	14.83	164	137806	20.00	ng	-0.02
63) Phenanthrene-d10	17.56	188	311759	20.00	ng	-0.02
75) Chrysene-d12	21.68	240	313827	20.00	ng	-0.02
86) Perylene-d12	24.04	264	258971	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.72	112	542319	148.61	ng	-0.02
7) Phenol-d6	7.37	99	681305	142.96	ng	-0.02
23) Nitrobenzene-d5	9.39	82	473780	94.86	ng	-0.02
41) 2,4,6-Tribromophenol	16.32	330	283206	162.03	ng	-0.02
44) 2-Fluorobiphenyl	13.46	172	1017558	89.84	ng	-0.02
78) Terphenyl-d14	20.14	244	1995176	133.08	ng	-0.02
Target Compounds						
					Qvalue	
4) n-Nitrosodimethylamine	4.05	42	119	0.037	ng	# 1
9) Benzaldehyde	7.36	77	1864	0.557	ng	# 2
15) Benzyl Alcohol	8.53	79	7792	2.053	ng	# 41
24) Nitrobenzene	9.39	77	2389	0.475	ng	# 31
45) 1,1'-Biphenyl	13.68	154	1138	0.092	ng	# 42
51) Acenaphthene	14.83	154	459	0.053	ng	# 5
73) Di-n-butylphthalate	18.49	149	1181	0.054	ng	# 78
74) Fluoranthene	19.60	202	337	0.017	ng	# 66
77) Pyrene	19.96	202	112	0.006	ng	# 57
79) Butylbenzylphthalate	20.80	149	777	0.081	ng	# 79
80) Benzo(a)anthracene	21.69	228	1283	0.066	ng	# 51
81) 3,3'-Dichlorobenzidine	21.64	252	106	0.014	ng	# 26
82) Chrysene	21.72	228	447	0.024	ng	# 50
83) Bis(2-ethylhexyl)phthalate	21.56	149	1673	0.121	ng	# 94
84) Di-n-octyl phthalate	22.46	149	729	0.031	ng	# 1
87) Benzo(b)fluoranthene	23.33	252	367	0.024	ng	# 1
88) Benzo(k)fluoranthene	23.36	252	636	0.041	ng	# 1
89) Benzo(a)pyrene	23.94	252	486	0.033	ng	# 1

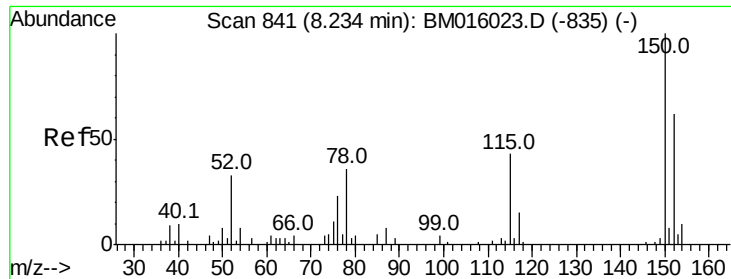
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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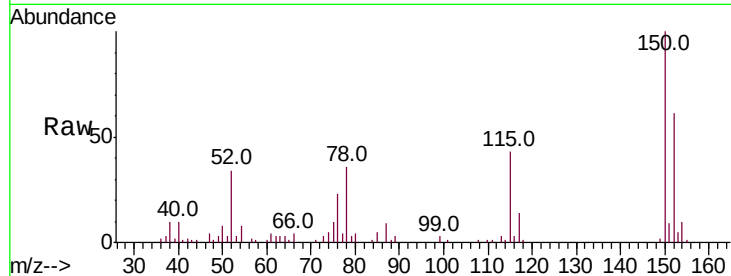


#1

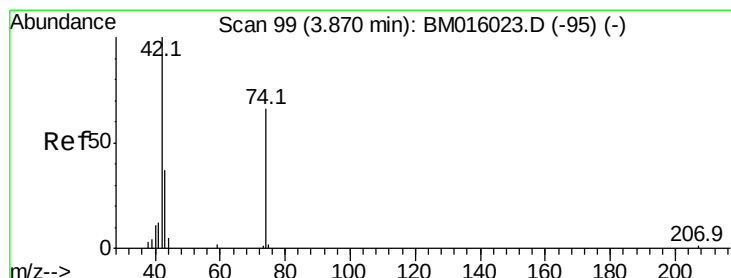
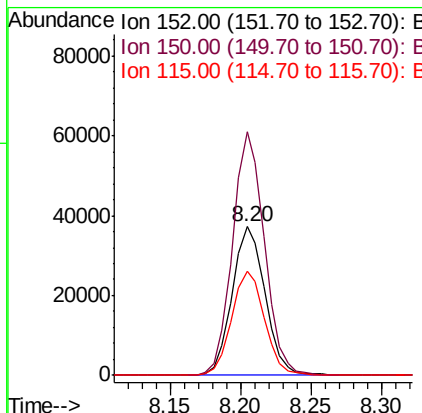
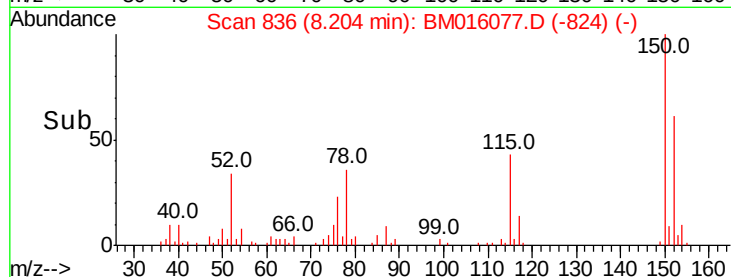
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.20 min Scan# 836
Delta R.T. -0.03 min
Lab File: BM016077.D
Acq: 26 Jul 2018 18:08

Instrument :
BNA_M
ClientSampled :

Tot Ion:152 Resp: 60620
Ion Ratio Lower Upper
152 100
150 163.7 119.5 179.3
115 70.4 43.0 64.4#



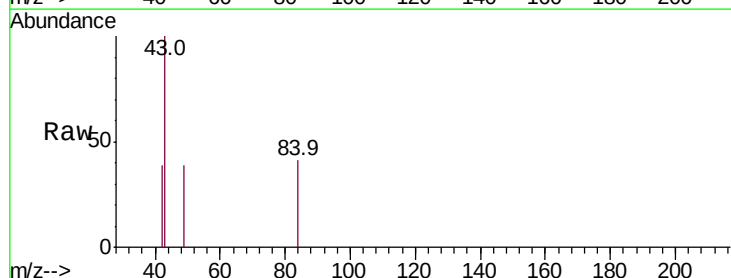
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



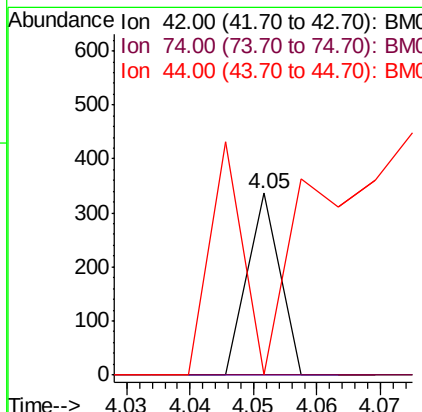
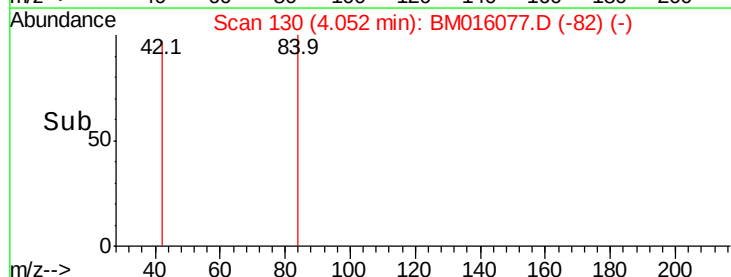
#4

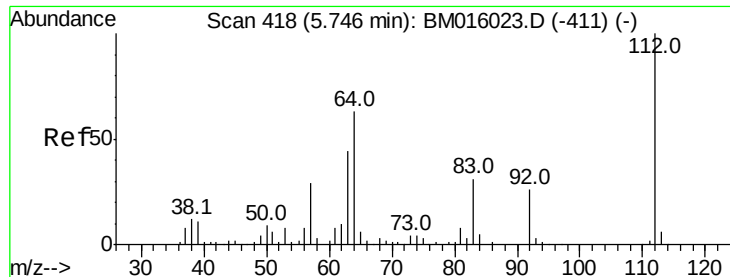
n-Nitrosodimethylamine
Concen: 0.037 ng
RT: 4.05 min Scan# 130
Delta R.T. 0.18 min
Lab File: BM016077.D
Acq: 26 Jul 2018 18:08

Tgt Ion: 42 Resp: 119
Ion Ratio Lower Upper
42 100
74 0.0 119.3 178.9#
44 0.0 5.4 8.2#



Abundance Ion 42.00 (41.70 to 42.70): BM0
Ion 74.00 (73.70 to 74.70): BM0
Ion 44.00 (43.70 to 44.70): BM0





#5

2-Fluorophenol

Concen: 0.037 ng

RT: 5.72 min Scan# 414

Delta R.T. -0.02 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

Instrument :

BNA_M

ClientSampled :

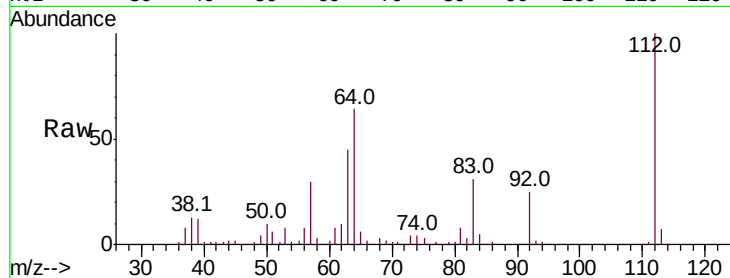
Tot Ion:112 Resp: 542319

Ion Ratio Lower Upper

112 100

64 64.3 38.6 57.8#

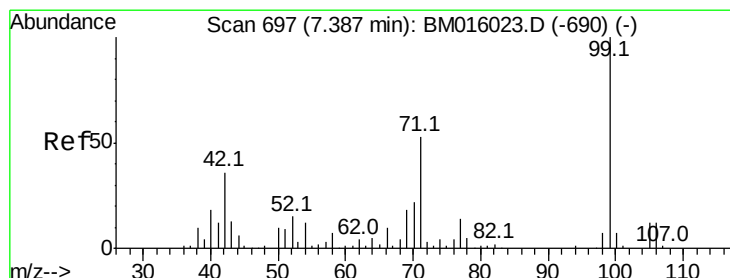
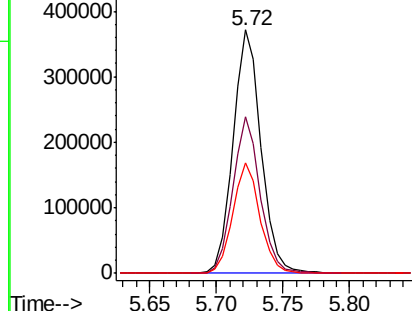
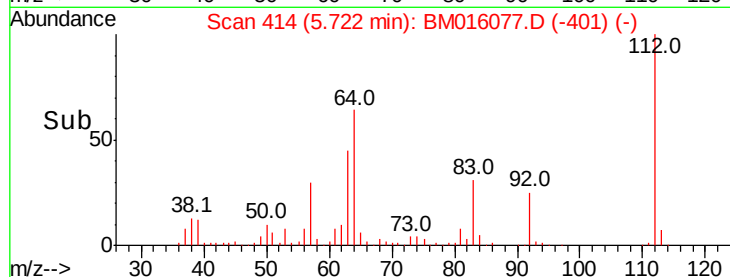
63 45.5 19.3 28.9#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#7

Phenol-d6

Concen: N.D. ng

RT: 7.37 min Scan# 694

Delta R.T. -0.02 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

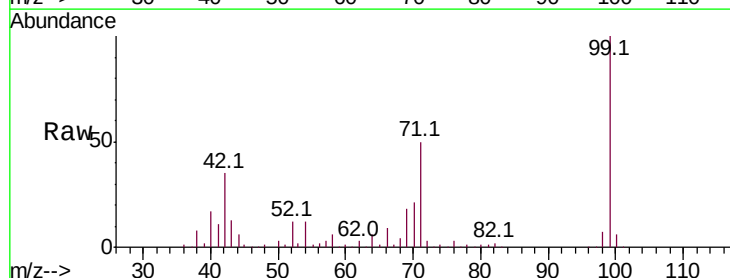
Tgt Ion: 99 Resp: 681305

Ion Ratio Lower Upper

99 100

42 35.2 11.0 16.4#

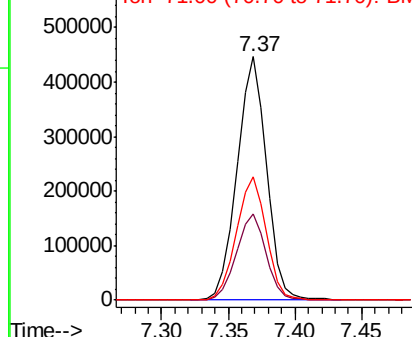
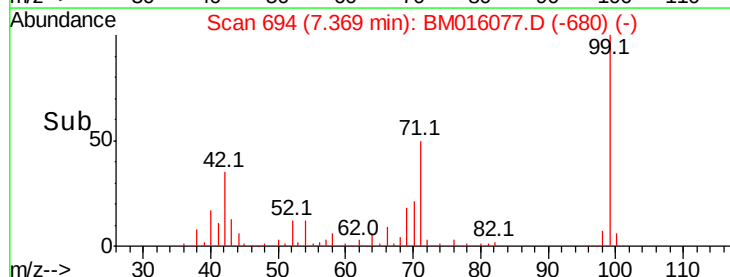
71 50.5 23.4 35.2#

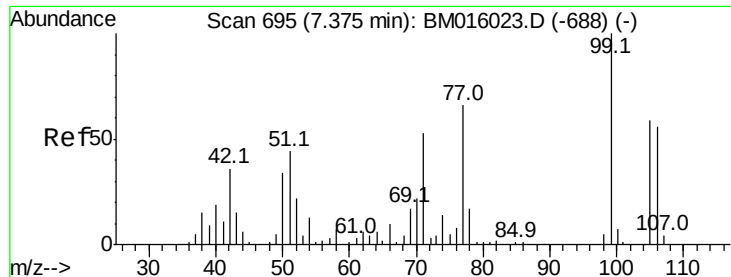


Abundance Ion 99.00 (98.70 to 99.70): BM

Ion 42.00 (41.70 to 42.70): BM

Ion 71.00 (70.70 to 71.70): BM

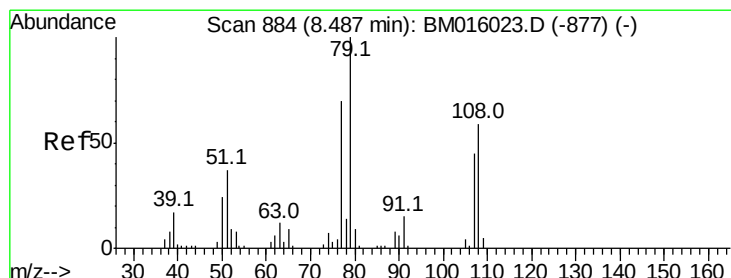
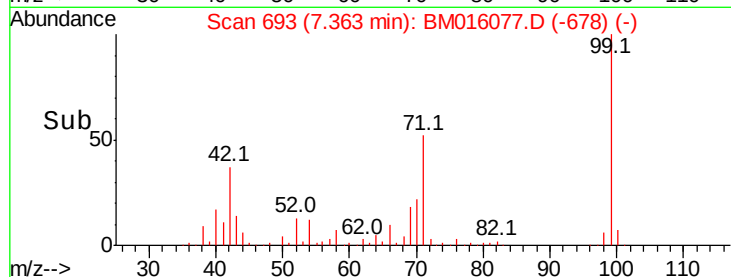
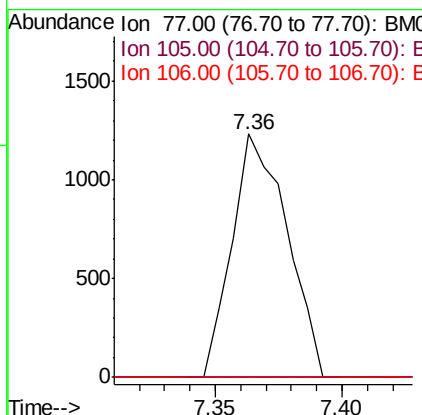
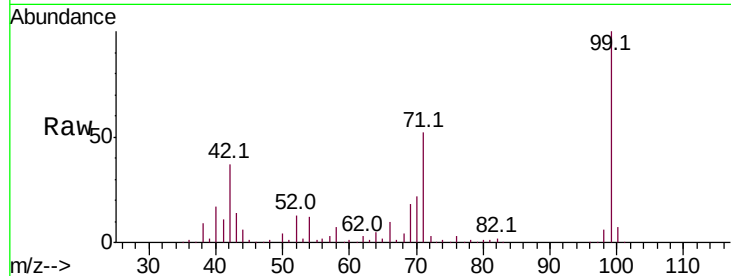




#9
Benzaldehyde
Concen: 0.557 ng
RT: 7.36 min Scan# 693
Delta R.T. -0.01 min
Lab File: BM016077.D
Acq: 26 Jul 2018 18:08

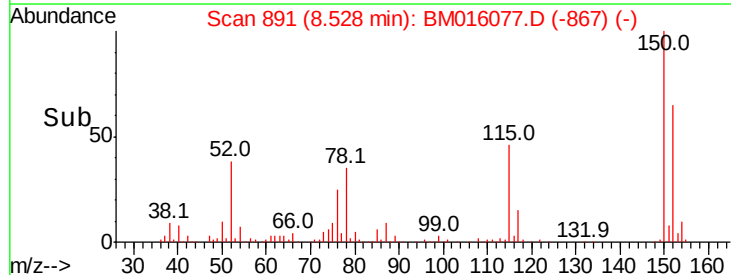
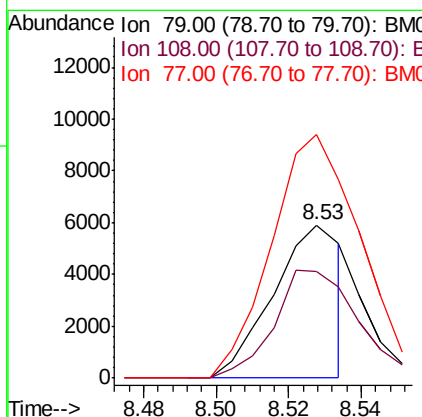
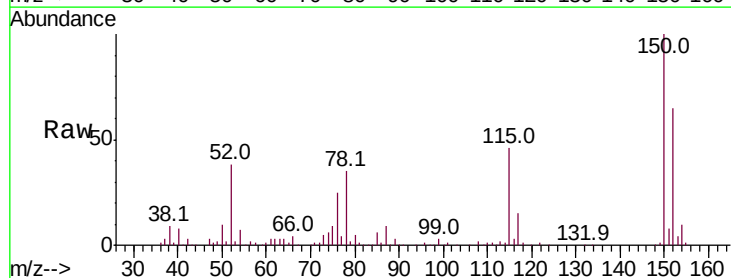
Instrument :
BNA_M
ClientSampleId :

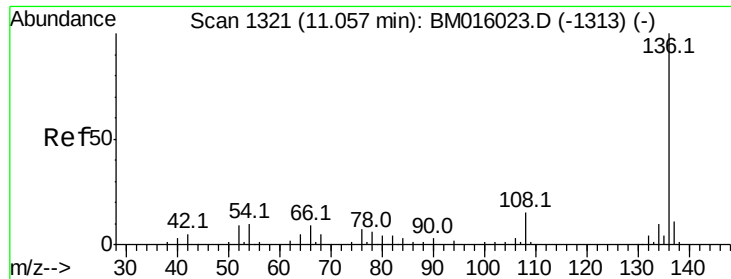
Tot Ion: 77 Resp: 1864
Ion Ratio Lower Upper
77 100
105 0.0 78.8 118.8#
106 0.0 73.7 113.7#



#15
Benzyl Alcohol
Concen: 2.053 ng
RT: 8.53 min Scan# 891
Delta R.T. 0.04 min
Lab File: BM016077.D
Acq: 26 Jul 2018 18:08

Tgt Ion: 79 Resp: 7792
Ion Ratio Lower Upper
79 100
108 69.7 65.0 97.4
77 158.9 53.0 79.6#

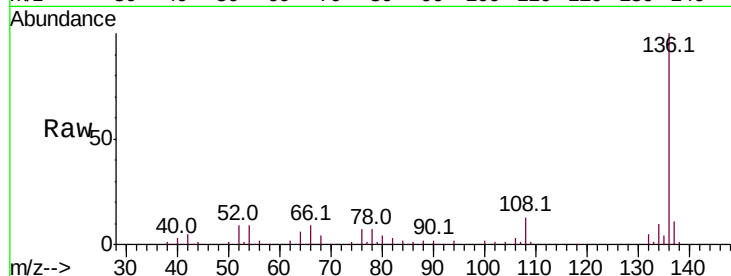




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.03 min Scan# 1316
Delta R.T. -0.03 min
Lab File: BM016077.D
Acq: 26 Jul 2018 18:08

Instrument :
BNA_M
ClientSampleId :

Tot Ion:	136	Resp:	232293
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.7	13.1
54	9.1	4.6	6.8#
68	4.1	3.7	5.5



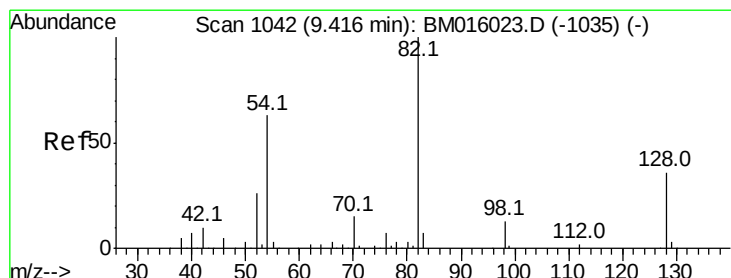
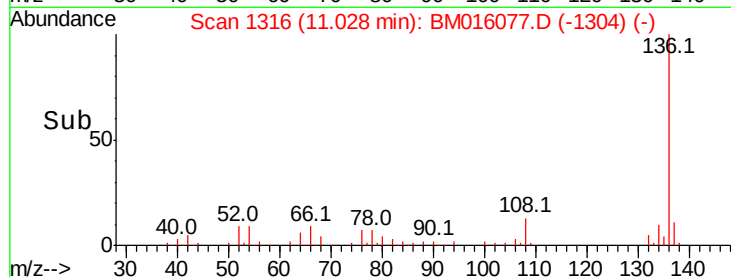
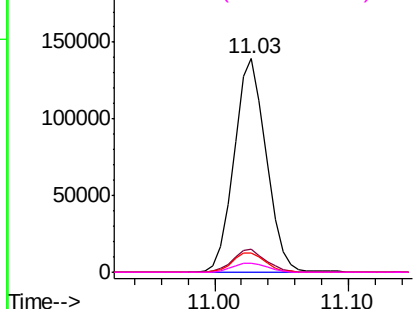
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

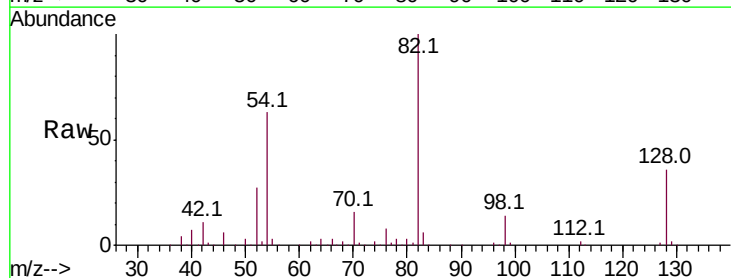
Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#23
Nitrobenzene-d5
Concen: N.D. ng
RT: 9.39 min Scan# 1038
Delta R.T. -0.02 min
Lab File: BM016077.D
Acq: 26 Jul 2018 18:08

Tgt Ion:	82	Resp:	473780
Ion	Ratio	Lower	Upper
82	100		
128	36.2	32.8	49.2
54	62.7	40.6	60.8#

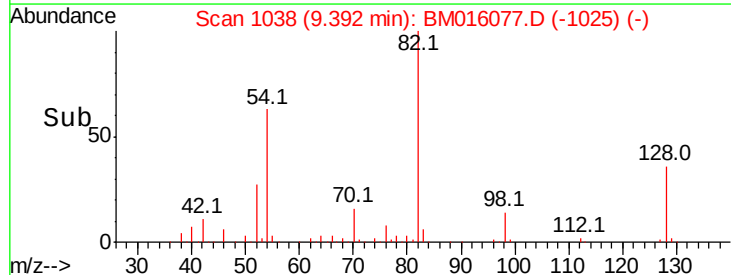
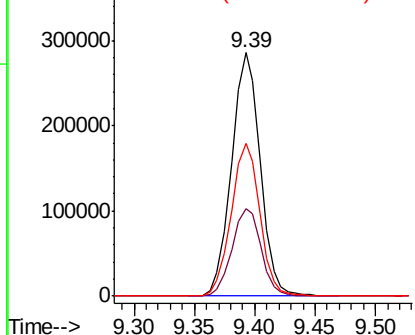


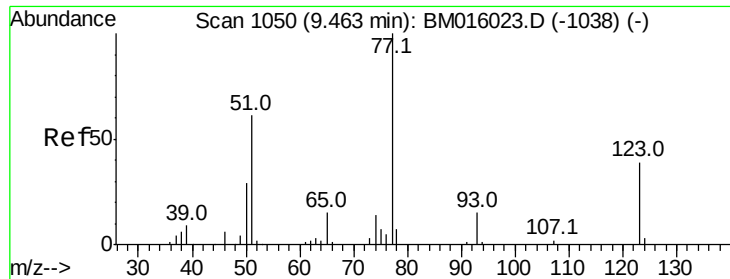
Abundance

Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

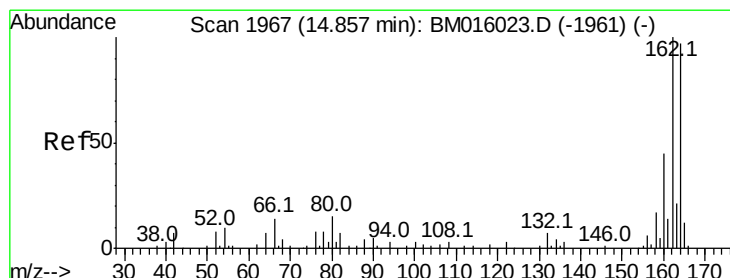
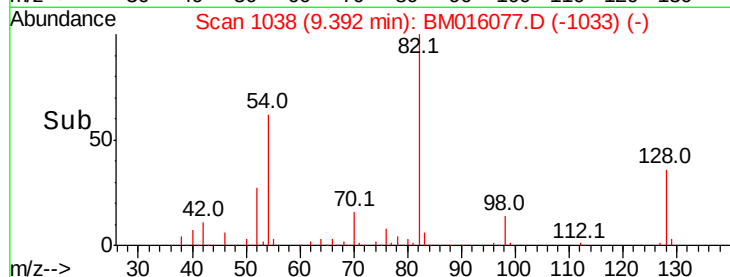
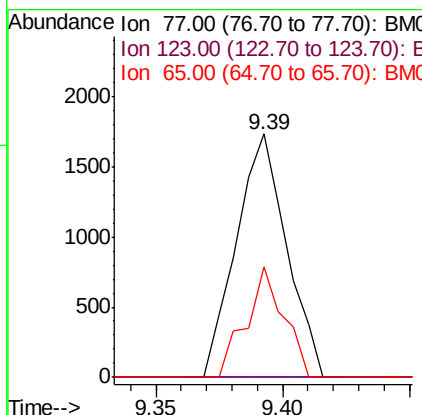
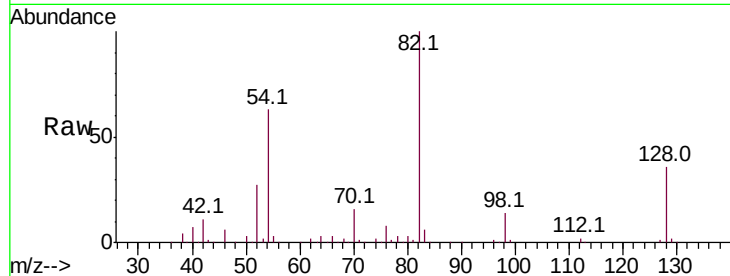




#24
 Nitrobenzene
 Concen: 0.475 ng
 RT: 9.39 min Scan# 1038
 Delta R.T. -0.07 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

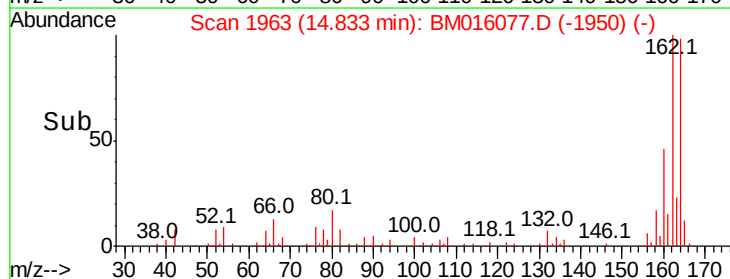
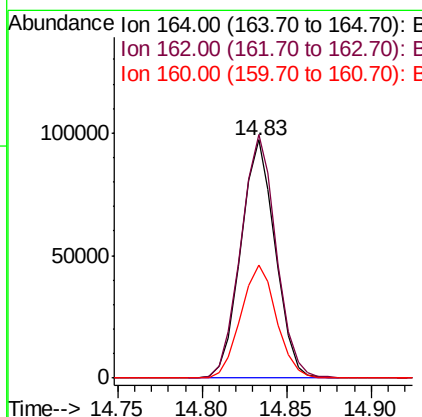
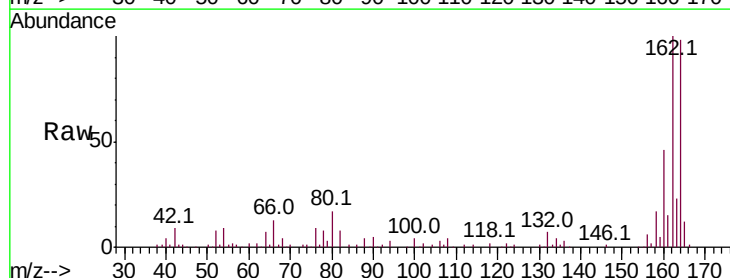
Instrument :
 BNA_M
 ClientSampleId :

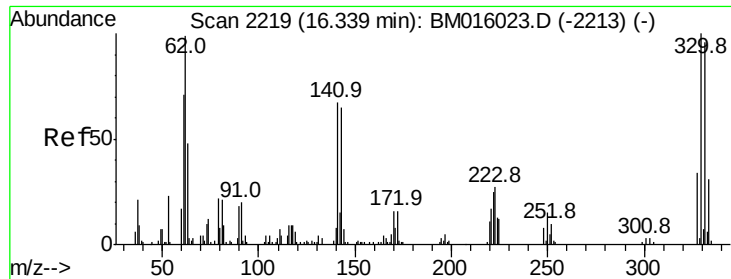
Tot Ion	Ratio	Lower	Upper
77	100		
123	0.0	32.6	49.0#
65	45.5	10.9	16.3#



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.83 min Scan# 1963
 Delta R.T. -0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.4	123.6
160	47.5	35.8	53.6

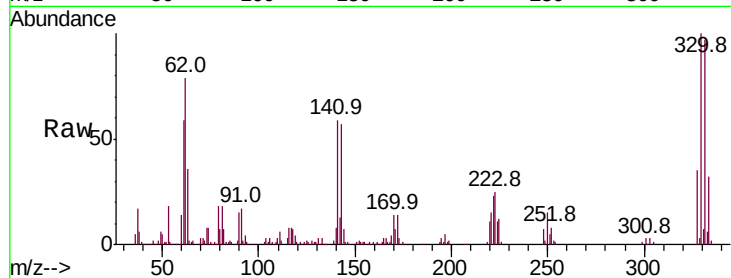




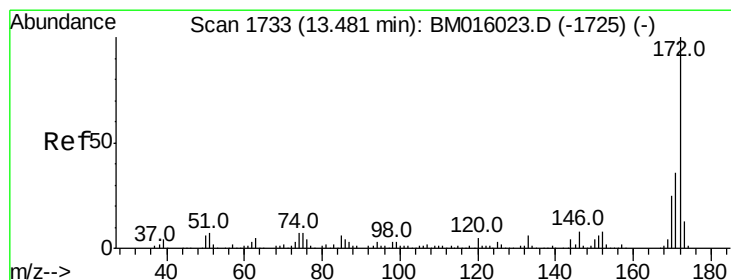
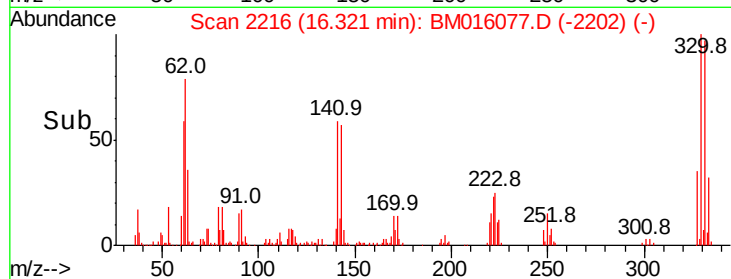
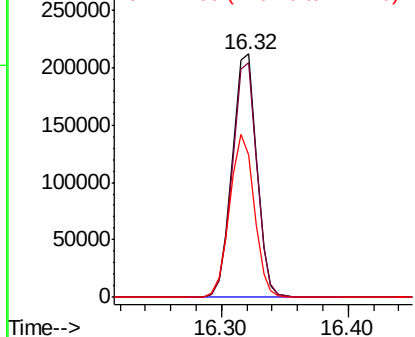
#41
 2,4,6-Tribromophenol
 Concen: N.D. ng
 RT: 16.32 min Scan# 2216
 Delta R.T. -0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	0.0	0.0#
141	67.0	0.0	0.0#

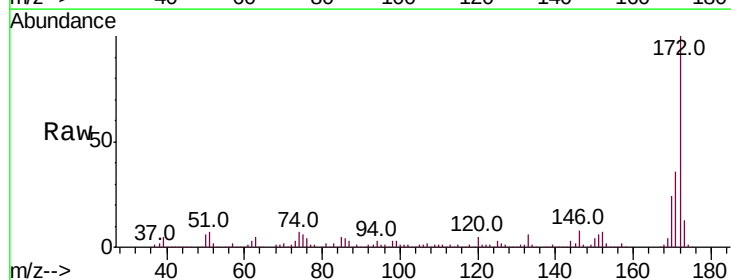


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

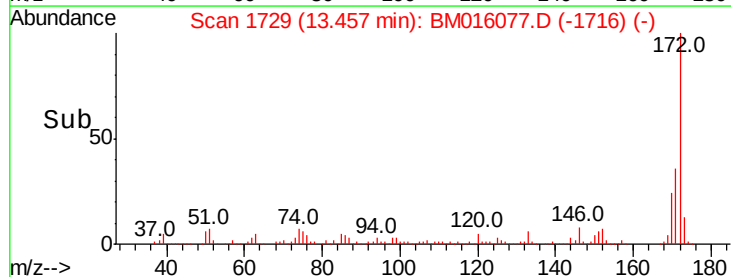
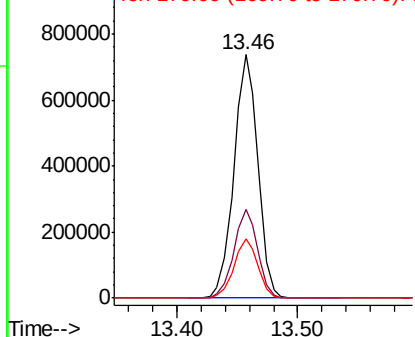


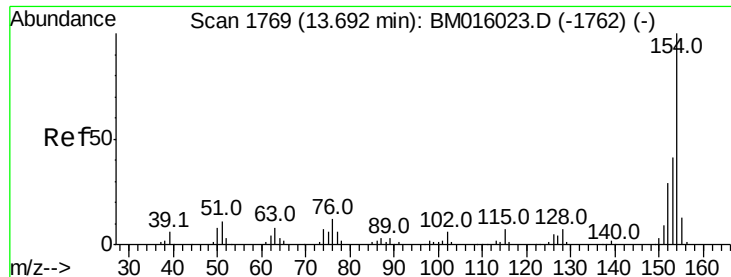
#44
 2-Fluorobiphenyl
 Concen: N.D. ng
 RT: 13.46 min Scan# 1729
 Delta R.T. -0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.5	42.7
170	24.4	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

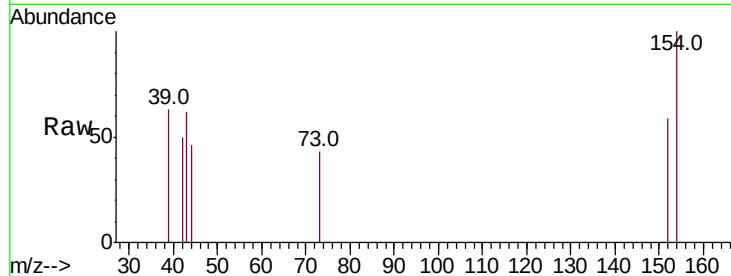




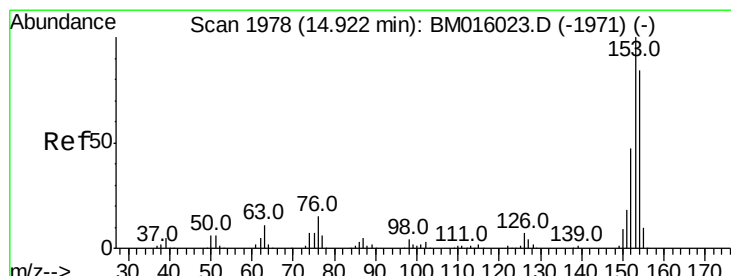
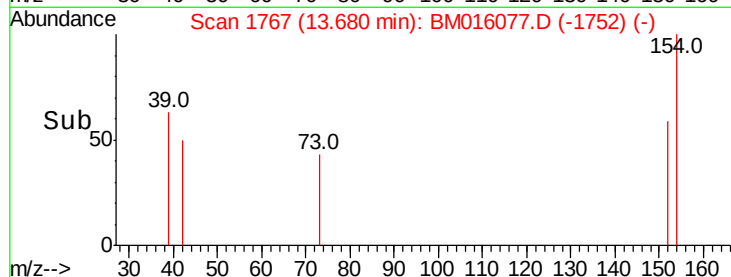
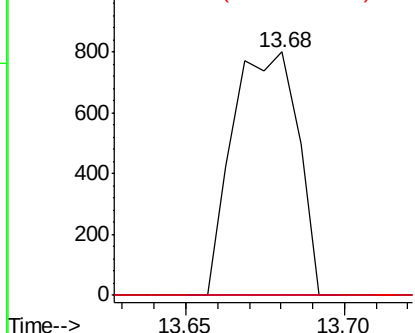
#45
 1,1'-Biphenyl
 Concen: 0.092 ng
 RT: 13.68 min Scan# 1767
 Delta R.T. -0.01 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Instrument :
 BNA_M
 ClientSampled :

Tot Ion:154 Resp: 1138
 Ion Ratio Lower Upper
 154 100
 153 0.0 20.7 60.7#
 76 0.0 0.0 30.9

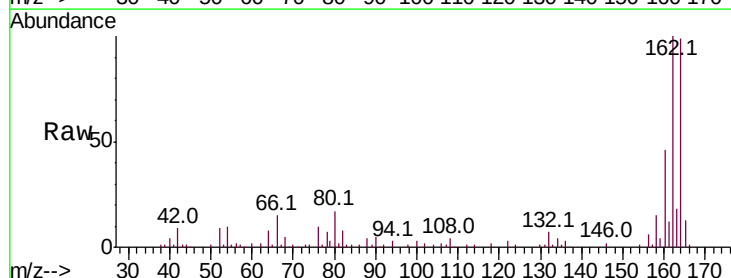


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM

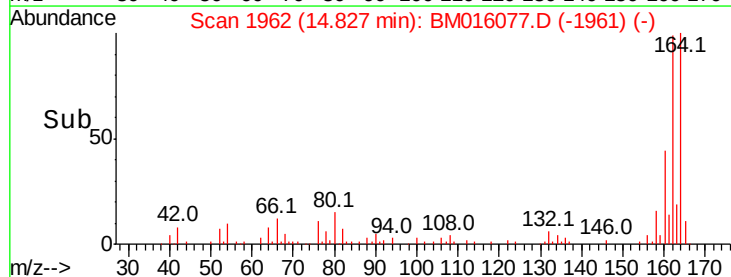
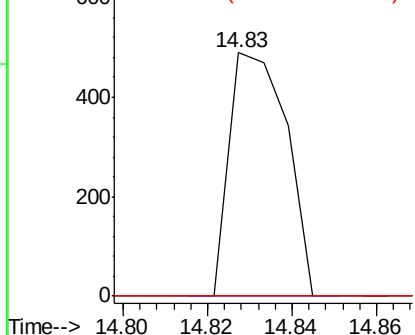


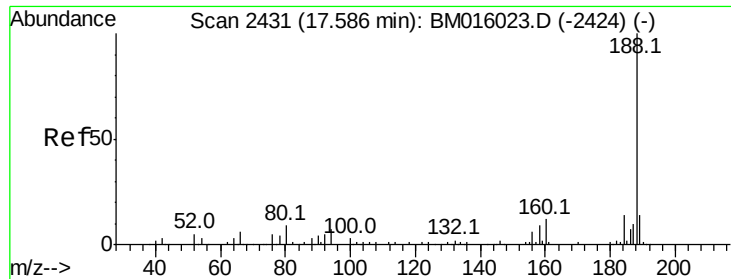
#51
 Acenaphthene
 Concen: 0.053 ng
 RT: 14.83 min Scan# 1962
 Delta R.T. -0.09 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Tgt Ion:154 Resp: 459
 Ion Ratio Lower Upper
 154 100
 153 0.0 90.0 135.0#
 152 0.0 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

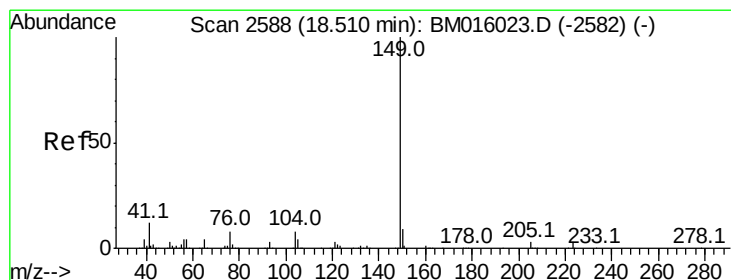
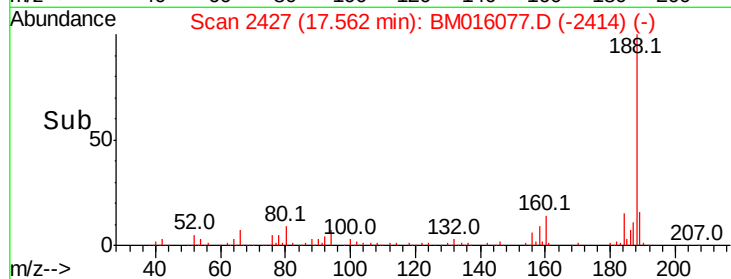
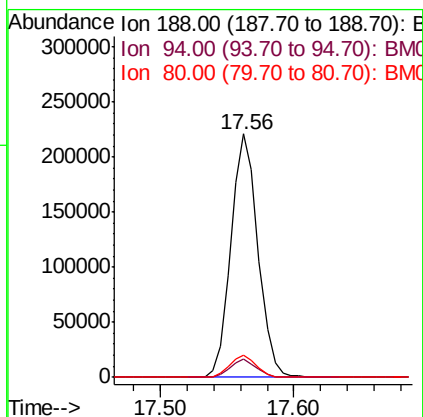
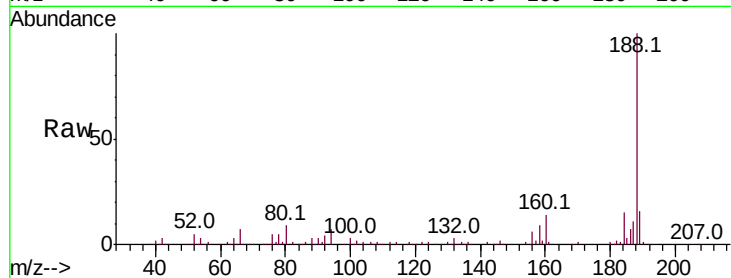




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.56 min Scan# 2427
 Delta R.T. -0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

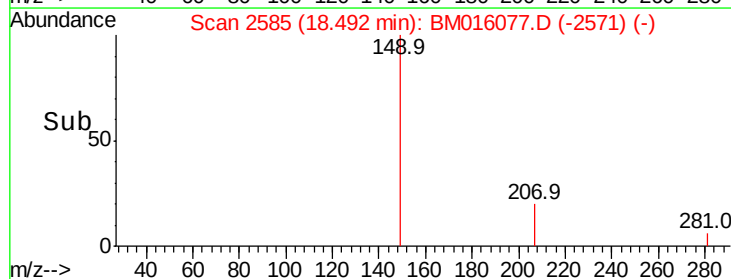
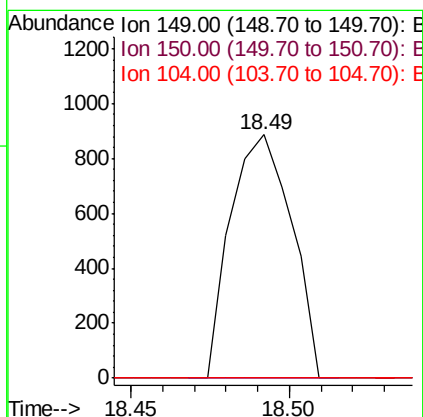
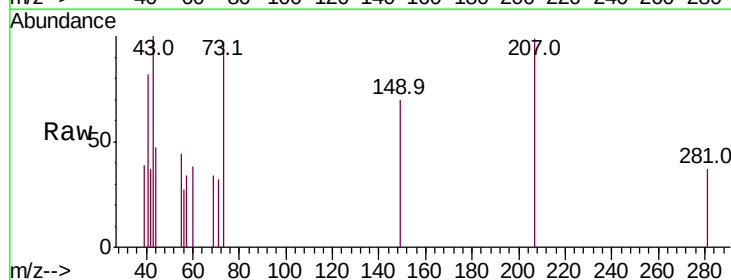
Instrument :
 BNA_M
 ClientSampled :

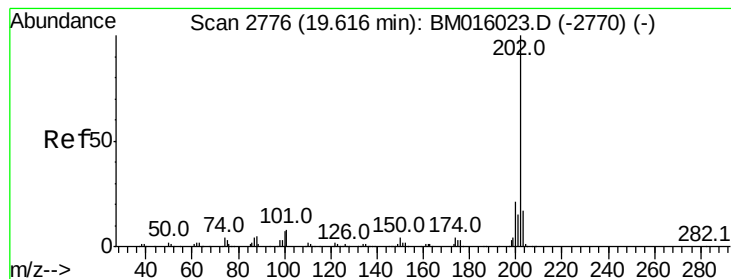
Tot Ion:188 Resp: 311759
 Ion Ratio Lower Upper
 188 100
 94 7.4 8.7 13.1#
 80 9.0 9.3 13.9#



#73
 Di-n-butylphthalate
 Concen: 0.054 ng
 RT: 18.49 min Scan# 2585
 Delta R.T. -0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Tgt Ion:149 Resp: 1181
 Ion Ratio Lower Upper
 149 100
 150 0.0 7.5 11.3#
 104 0.0 3.7 5.5#





#74

Fluoranthene

Concen: 0.017 ng

RT: 19.60 min Scan# 2774

Delta R.T. -0.01 min

Lab File: BM016077.D

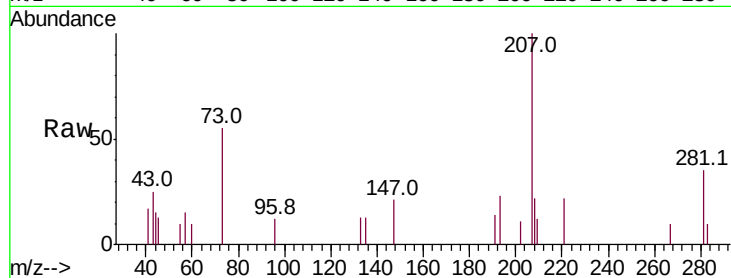
Acq: 26 Jul 2018 18:08

Instrument :

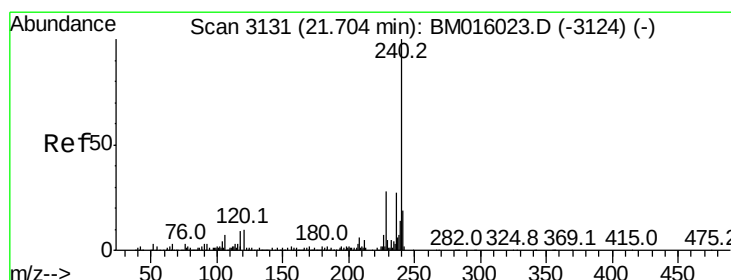
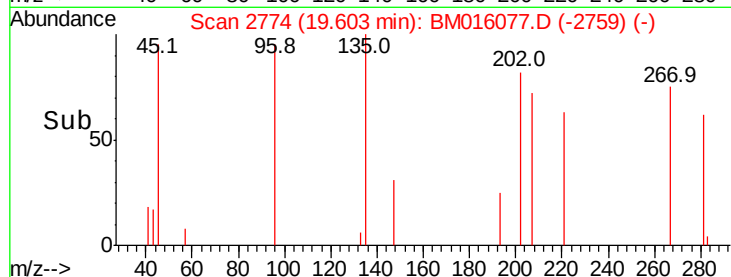
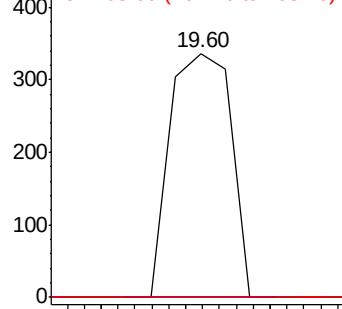
BNA_M

ClientSampleId :

Tot Ion:	202	Resp:	337
Ion	Ratio	Lower	Upper
202	100		
101	0.0	0.0	28.7
203	0.0	0.0	37.2



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



#75

Chrysene-d12

Concen: 20.000 ng

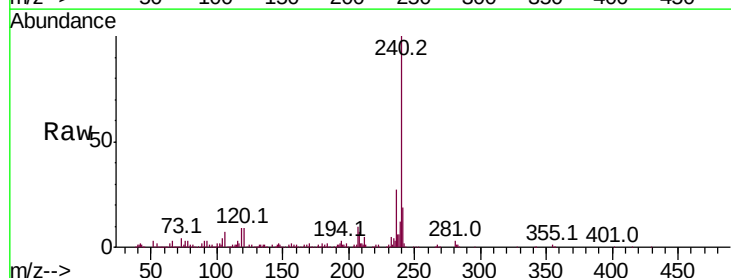
RT: 21.68 min Scan# 3127

Delta R.T. -0.02 min

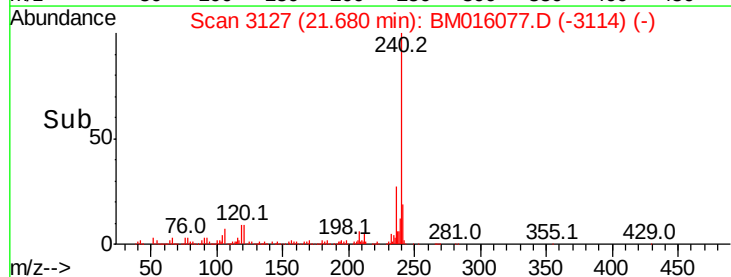
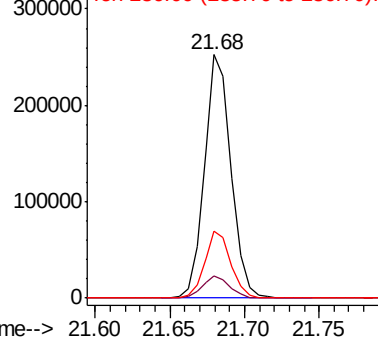
Lab File: BM016077.D

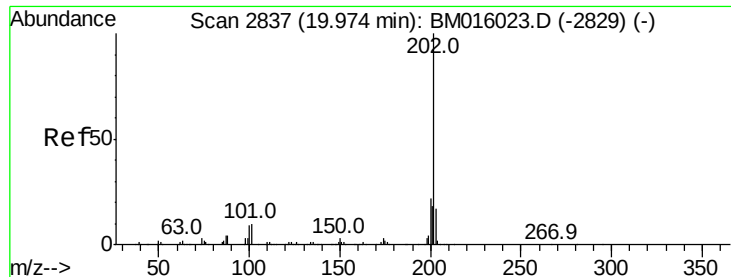
Acq: 26 Jul 2018 18:08

Tgt Ion:	240	Resp:	313827
Ion	Ratio	Lower	Upper
240	100		
120	9.2	8.2	12.2
236	27.3	20.0	30.0



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





#77

Pvrene

Concen: 0.006 ng

RT: 19.96 min Scan# 2835

Delta R.T. -0.01 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

Instrument :

BNA_M

ClientSampleId :

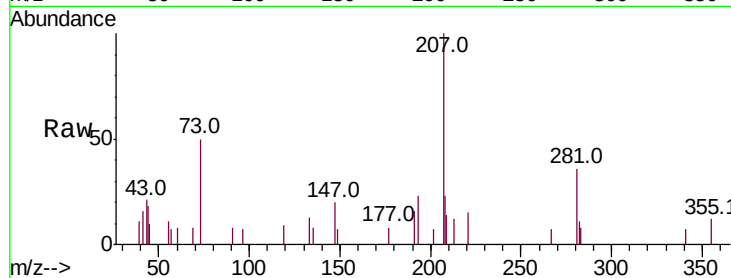
Tot Ion:202 Resp: 112

Ion Ratio Lower Upper

202 100

200 0.0 16.9 25.3#

203 0.0 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

19.96

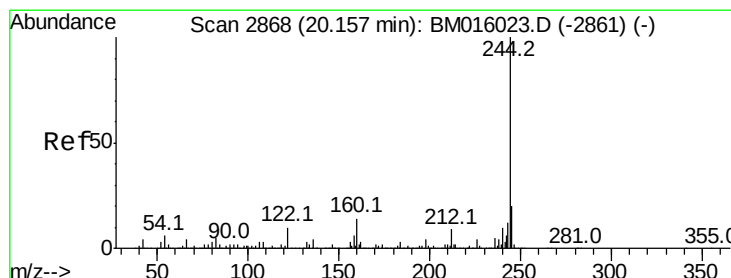
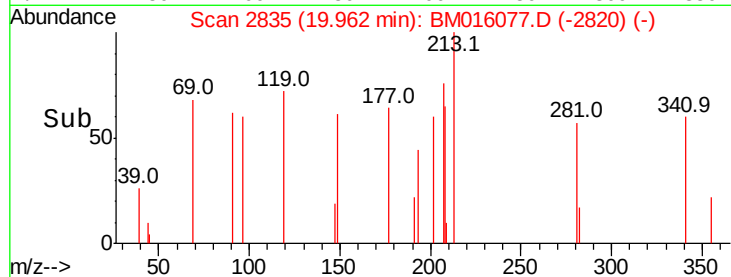
300

200

100

0

Time--> 19.94 19.96 19.98



#78

Terphenyl-d14

Concen: 0.006 ng

RT: 20.14 min Scan# 2865

Delta R.T. -0.02 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

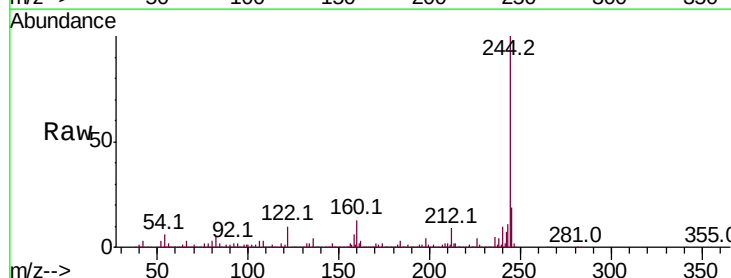
Tgt Ion:244 Resp: 1995176

Ion Ratio Lower Upper

244 100

212 9.2 4.9 7.3#

122 9.7 6.2 9.4#



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

20.14

2500000

2000000

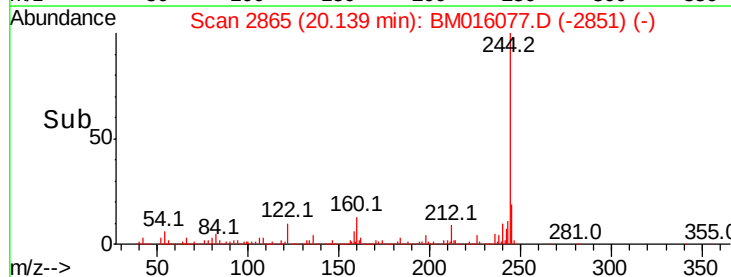
1500000

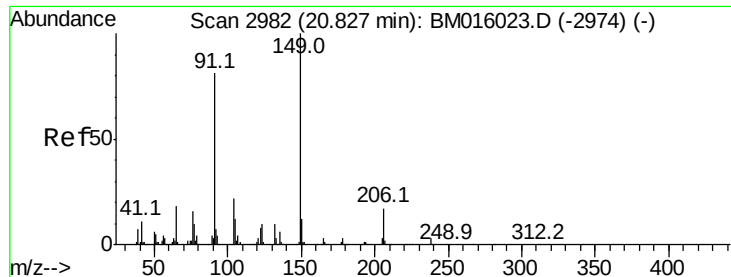
1000000

500000

0

Time--> 20.10 20.20





#79

Butylbenzylphthalate

Concen: 0.081 ng

RT: 20.80 min Scan# 2977

Delta R.T. -0.03 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

Instrument :

BNA_M

ClientSampled :

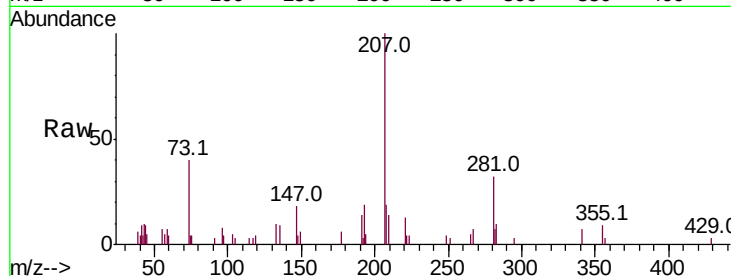
Tot Ion:149 Resp: 777

Ion Ratio Lower Upper

149 100

91 52.4 50.1 75.1

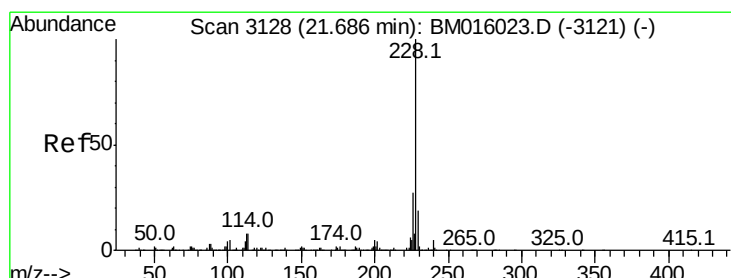
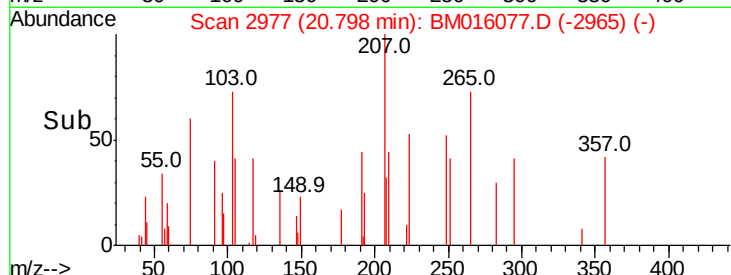
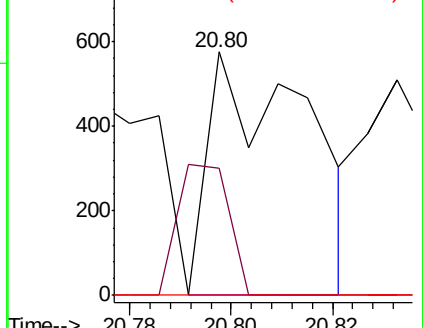
206 0.0 16.2 24.2#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 0.066 ng

RT: 21.69 min Scan# 3128

Delta R.T. -0.00 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

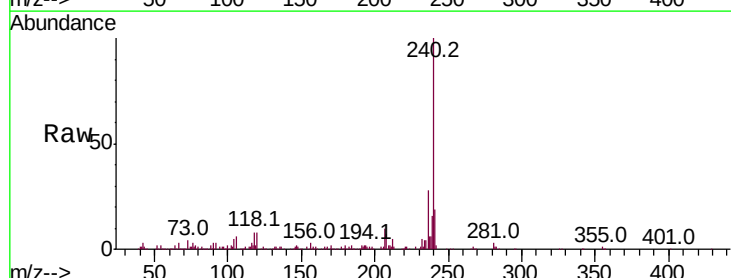
Tgt Ion:228 Resp: 1283

Ion Ratio Lower Upper

228 100

226 0.0 21.7 32.5#

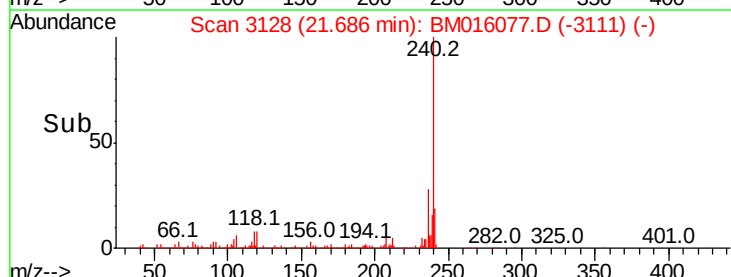
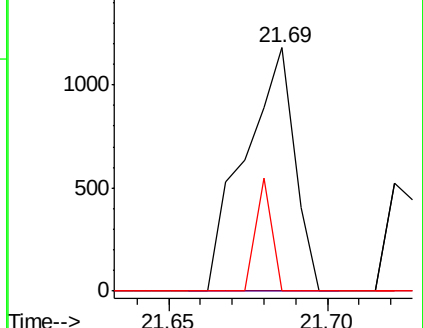
229 0.0 16.0 24.0#

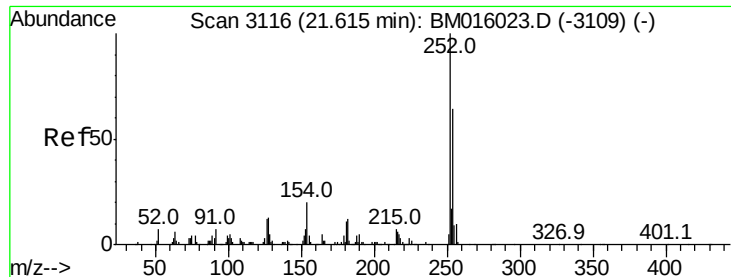


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

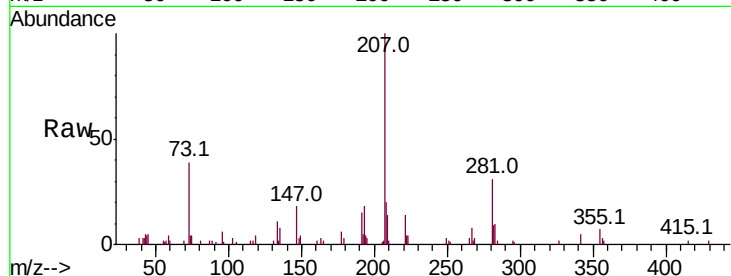




#81
 3,3'-Dichlorobenzidine
 Concen: 0.014 ng
 RT: 21.64 min Scan# 3120
 Delta R.T. 0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

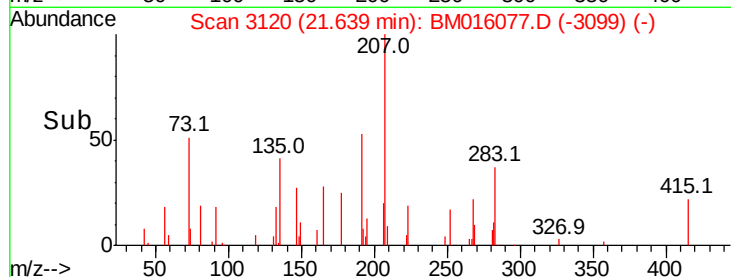
Instrument :
 BNA_M
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
254	0.0	51.9	77.9#
126	0.0	9.8	14.8#

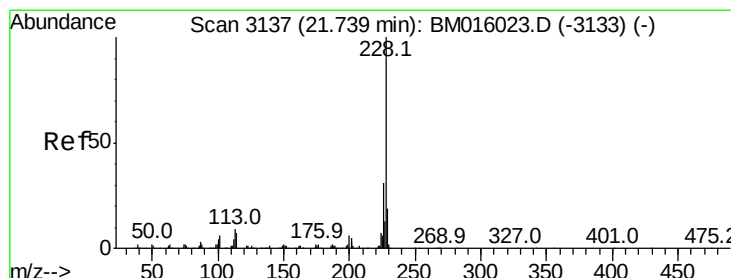


Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E

21.64

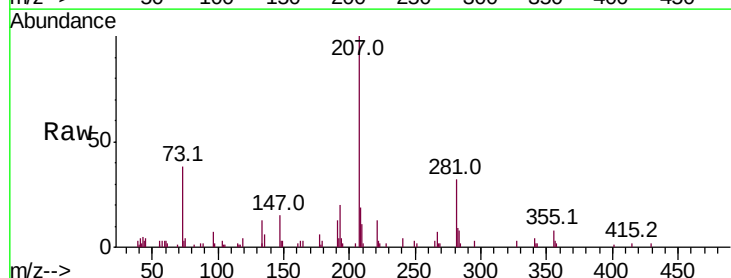


Time-->



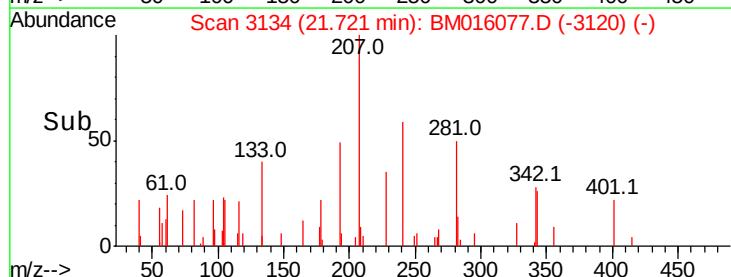
#82
 Chrysene
 Concen: 0.024 ng
 RT: 21.72 min Scan# 3134
 Delta R.T. -0.02 min
 Lab File: BM016077.D
 Acq: 26 Jul 2018 18:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	0.0	24.1	36.1#
229	0.0	15.5	23.3#

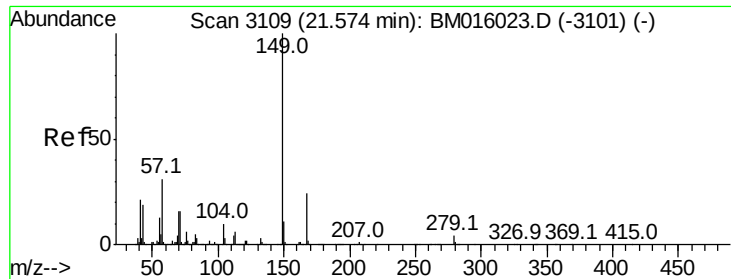


Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E

21.72



Time-->



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.56 min Scan# 3106

Delta R.T. -0.02 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

Instrument :

BNA_M

ClientSampleId :

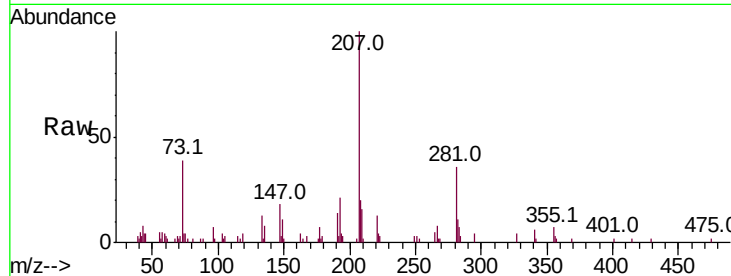
Tot Ion:149 Resp: 1673

Ion Ratio Lower Upper

149 100

167 25.1 22.4 33.6

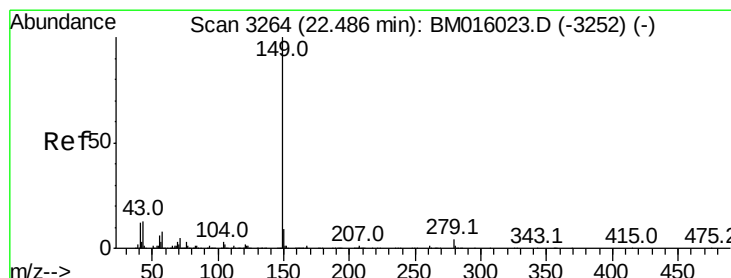
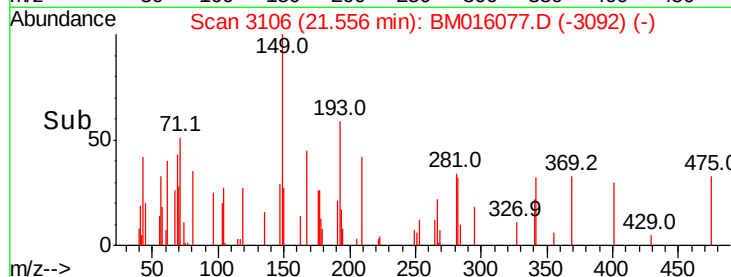
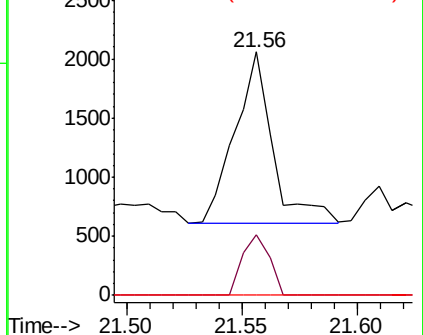
279 0.0 3.4 5.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 0.031 ng

RT: 22.46 min Scan# 3260

Delta R.T. -0.02 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

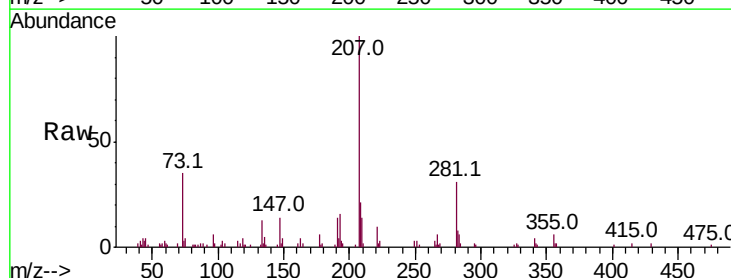
Tgt Ion:149 Resp: 729

Ion Ratio Lower Upper

149 100

167 15.1 1.2 1.8#

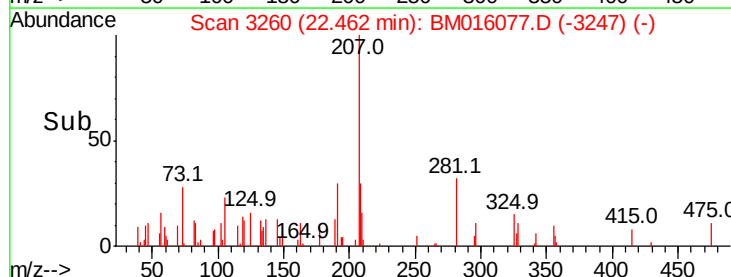
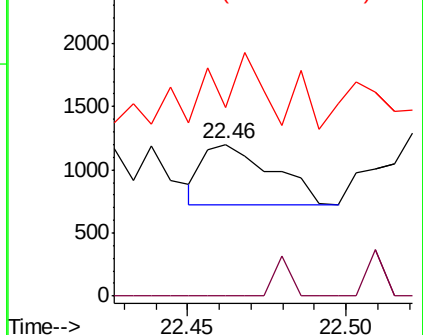
43 86.3 7.3 10.9#

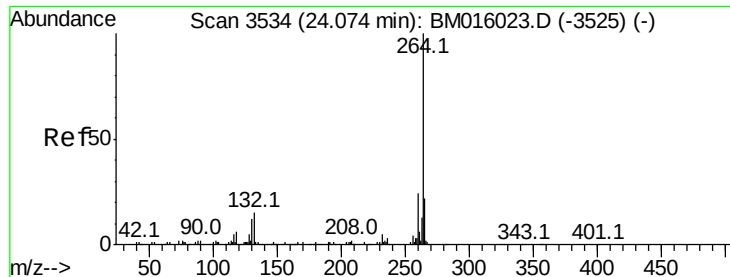


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BM





#86

Pervlene-d12

Concen: 20.000 ng

RT: 24.04 min Scan# 3529

Delta R.T. -0.03 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

Instrument :

BNA_M

ClientSampleId :

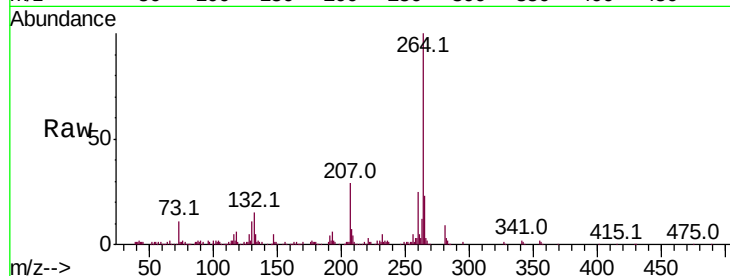
Tot Ion:264 Resp: 258971

Ion Ratio Lower Upper

264 100

260 24.5 18.6 27.8

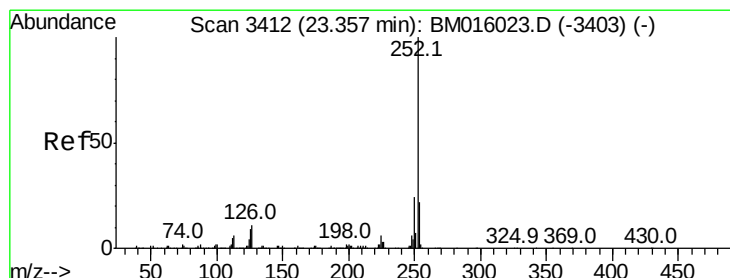
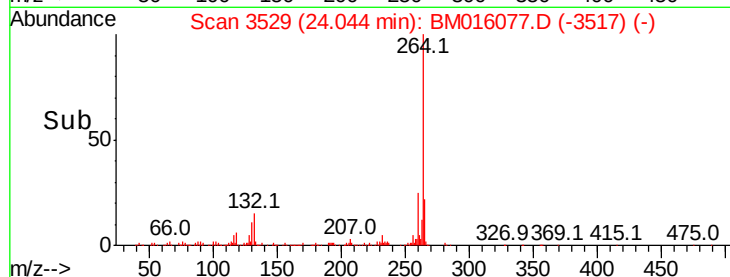
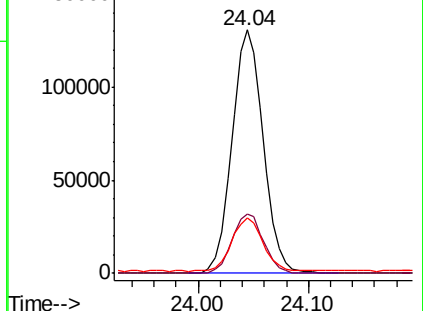
265 22.9 17.3 25.9



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



#87

Benzo(b)fluoranthene

Concen: 0.024 ng

RT: 23.33 min Scan# 3408

Delta R.T. -0.02 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

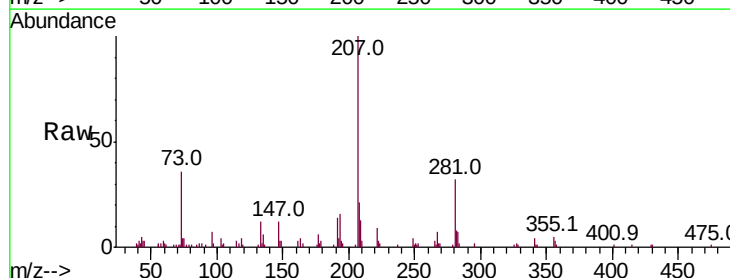
Tgt Ion:252 Resp: 367

Ion Ratio Lower Upper

252 100

253 178.0 18.0 27.0#

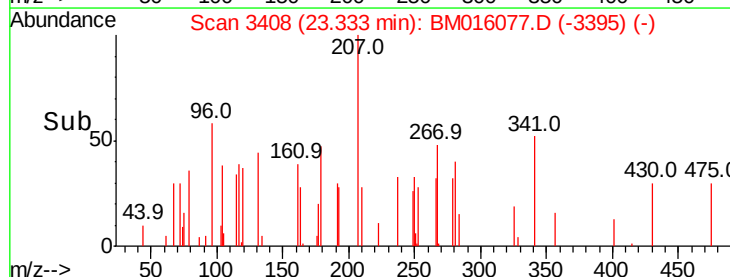
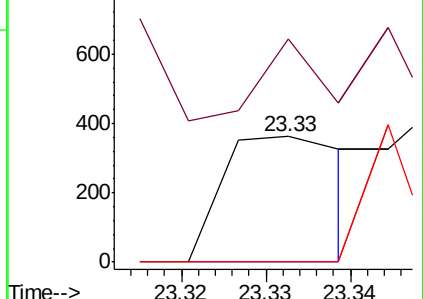
125 0.0 9.9 14.9#

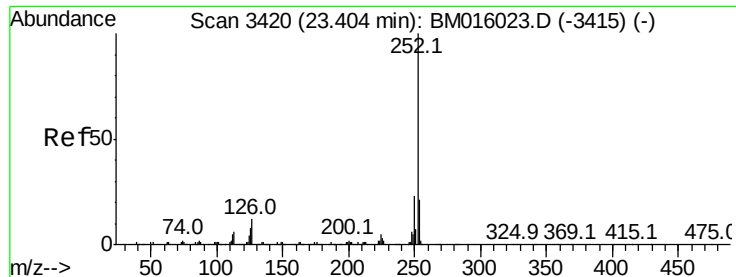


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 0.041 ng

RT: 23.36 min Scan# 3413

Delta R.T. -0.04 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

Instrument :

BNA_M

ClientSampled :

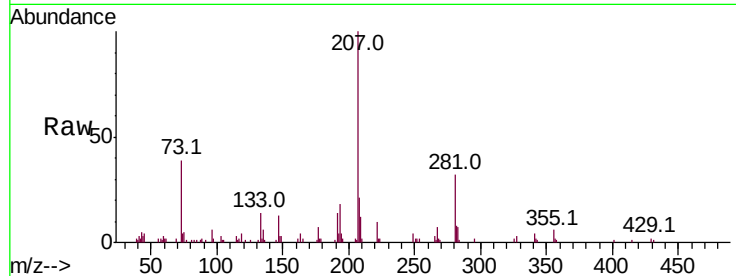
Tot Ion:252 Resp: 636

Ion Ratio Lower Upper

252 100

253 115.0 17.2 25.8#

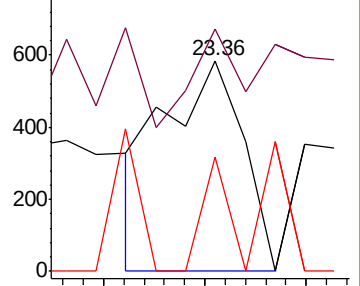
125 54.2 8.1 12.1#



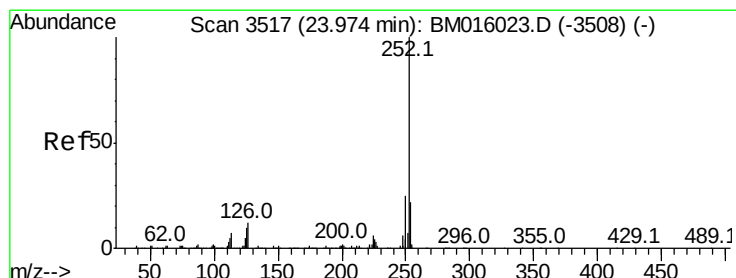
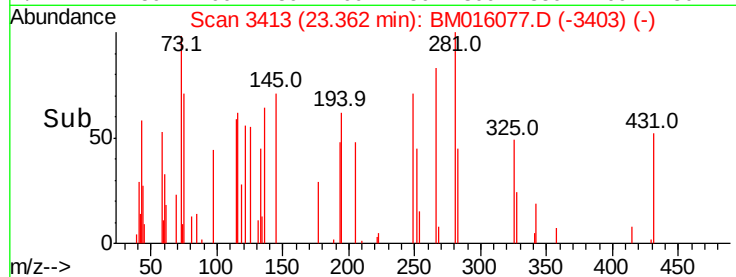
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#89

Benzo(a)pyrene

Concen: 0.033 ng

RT: 23.94 min Scan# 3511

Delta R.T. -0.04 min

Lab File: BM016077.D

Acq: 26 Jul 2018 18:08

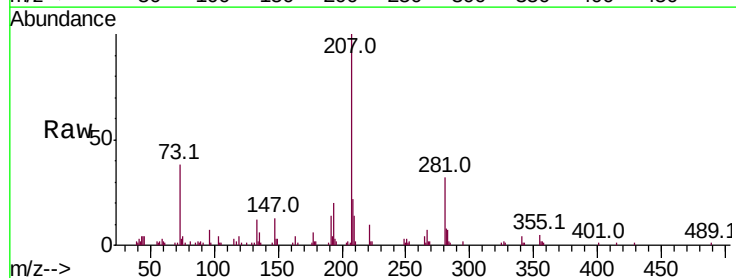
Tgt Ion:252 Resp: 486

Ion Ratio Lower Upper

252 100

253 158.8 17.6 26.4#

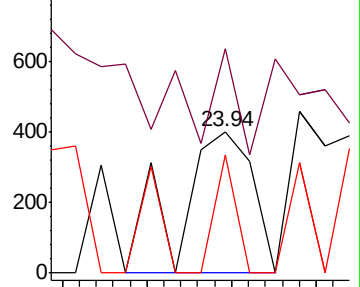
125 83.8 7.4 11.2#



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



Time-->

