

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013431.D
 Acq On : 15 Dec 2017 08:58
 Operator : SJ/JU
 Sample : I6778-15
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 15 10:04:11 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	280416	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	1216021	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	716752	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.08	188	1475960	20.00	ng/ul	0.00
75) Chrysene-d12	21.26	240	1294295	20.00	ng/ul	0.00
83) Perylene-d12	23.49	264	1047661	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	24629	4.35	ng/uL	0.00
5) Phenol-d5	6.86	99	618133	25.47	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	379557	27.43	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	510597	26.93	ng/ul	0.00
13) 4-Methylphenol-d8	8.39	113	557989	26.92	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	289432	30.01	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	322530	31.25	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.09	165	554120	26.05	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	476066	24.35	ng/ul	0.00
43) Dimethylphthalate-d6	13.74	166	1723066	27.01	ng/ul	0.00
46) Acenaphthylene-d8	14.02	160	2067540	26.27	ng/ul	0.00
51) 4-Nitrophenol-d4	14.54	143	264180	23.84	ng/ul	0.01
57) Fluorene-d10	15.32	176	1419143	25.87	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.47	200	190635	20.53	ng/ul	0.02
70) Anthracene-d10	17.18	188	2057617	27.84	ng/ul	0.01
76) Pyrene-d10	19.47	212	2102019	32.60	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.34	264	1388343	26.02	ng/ul	0.00

Target Compounds

					Ovalue
6) Phenol	6.88	94	76582	3.193	ng/ul# 86
17) Hexachloroethane	8.77	117	24040	2.970	ng/ul# 1
24) 2,4-Dimethylphenol	9.65	107	52274	2.240	ng/ul# 81
30) 4-Chloroaniline	10.54	127	6726986	355.463	ng/ul# 17
34) 2-Methylnaphthalene	12.13	142	9772476	207.792	ng/ul 96
40) 1,1'-Biphenyl	13.15	154	2369545	39.117	ng/ul 98
44) Dimethylphthalate	13.79	163	522543	8.566	ng/ul 99
47) Acenaphthylene	14.04	152	1145619	15.728	ng/ul# 95
49) Acenaphthene	14.40	153	9236703	186.155	ng/ul 98
53) Dibenzofuran	14.73	168	10157470	138.668	ng/ul 100
54) 2,4-Dinitrotoluene	14.69	165	26229	1.449	ng/ul# 50
58) Fluorene	15.39	166	10758656	177.543	ng/ul 99
64) N-Nitrosodiphenylamine	15.59	169	102406	2.355	ng/ul# 1
68) Pentachlorophenol	16.74	266	13481	1.218	ng/ul 88
69) Phenanthrene	17.22	178	6226856	74.260	ng/ul 99
71) Anthracene	17.22	178	6226856	72.650	ng/ul 98
72) Carbazole	17.49	167	4785252	64.908	ng/ul 100
77) Pyrene	19.51	202	13725654	174.556	ng/ul# 85
80) Benzo(a)anthracene	21.25	228	3420649	41.654	ng/ul 98
82) Chrysene	21.30	228	2788334	36.599	ng/ul 98
85) Benzo(b)fluoranthene	22.82	252	1822720	25.809	ng/ul# 98
86) Benzo(k)fluoranthene	22.82	252	1822720	27.425	ng/ul# 97
88) Benzo(a)pyrene	23.39	252	1134991	17.890	ng/ul# 96

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QLast Update : Fri Dec 15 04:56:09 2017
Response via : Initial Calibration

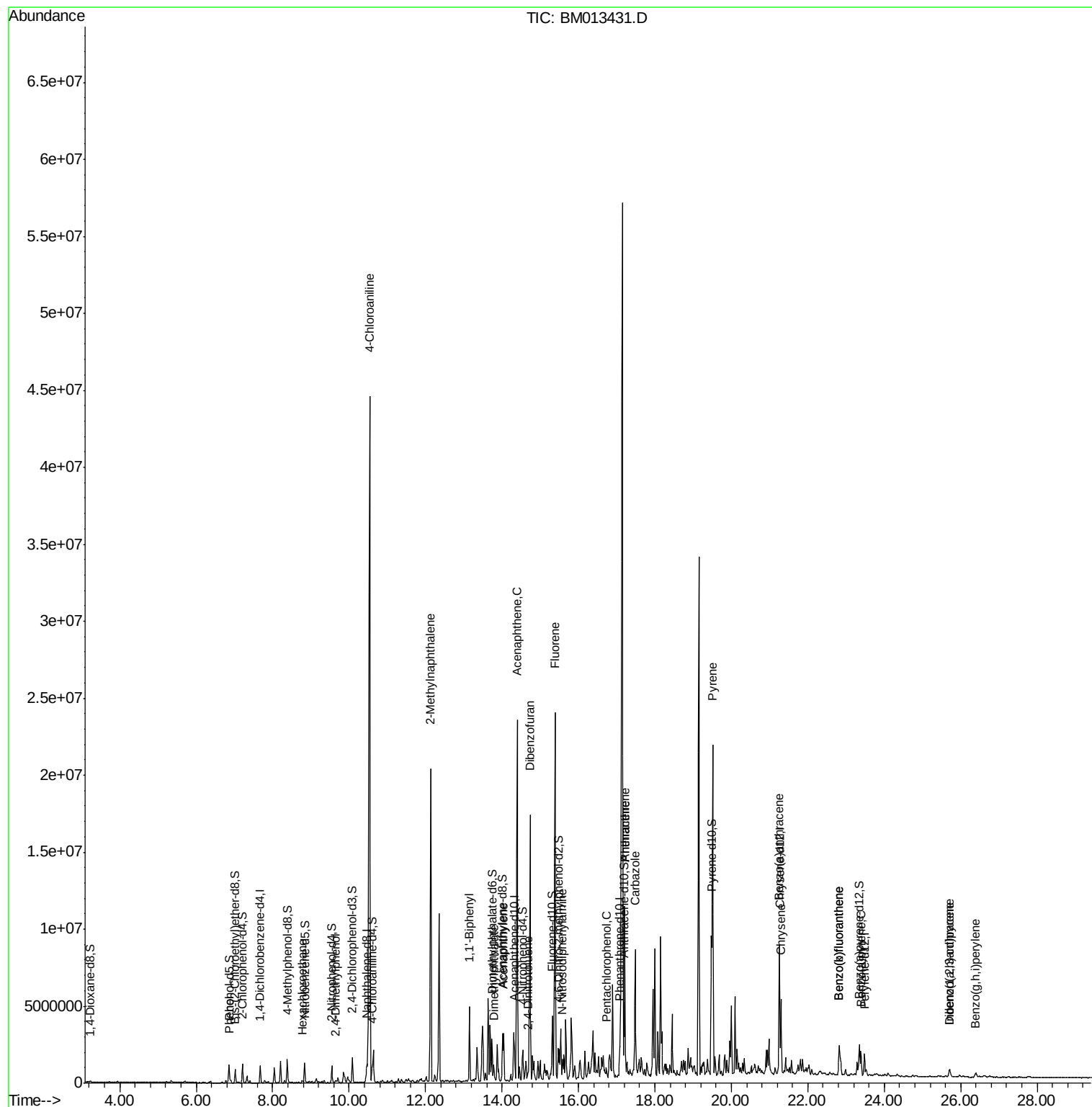
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	25.71	276	457293	7.265	ng/ul#	97
90) Dibenzo(a,h)anthracene	25.71	278	133580	2.492	ng/ul#	87
91) Benzo(q,h,i)perylene	26.39	276	340454	6.857	ng/ul#	90

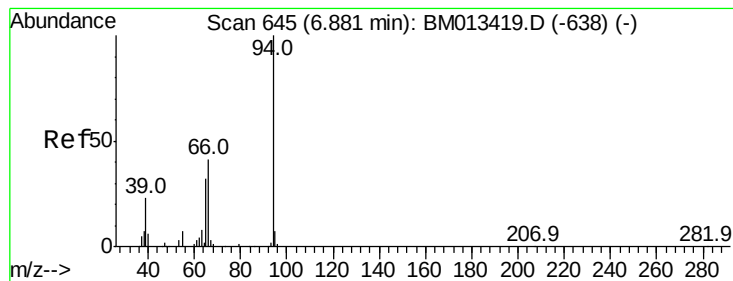
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 3.193 ng/ul

RT: 6.88 min Scan# 645

Delta R.T. -0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

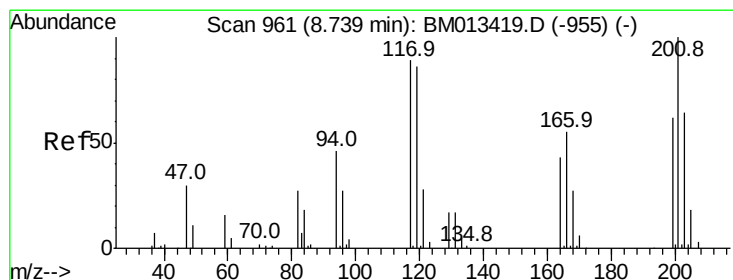
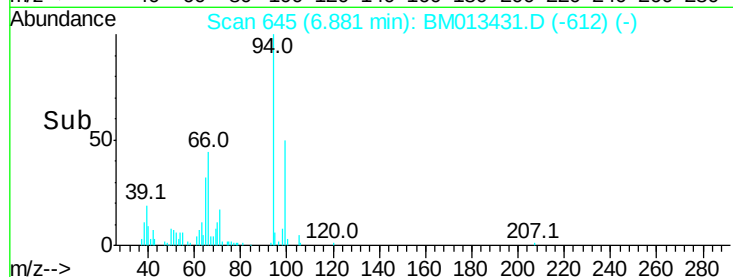
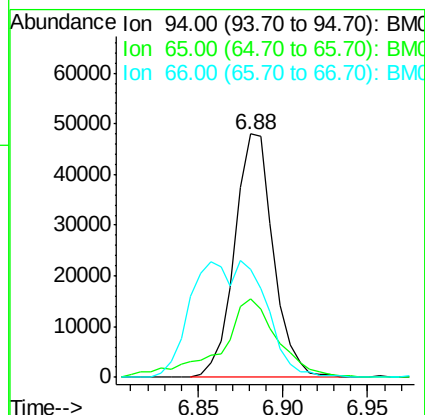
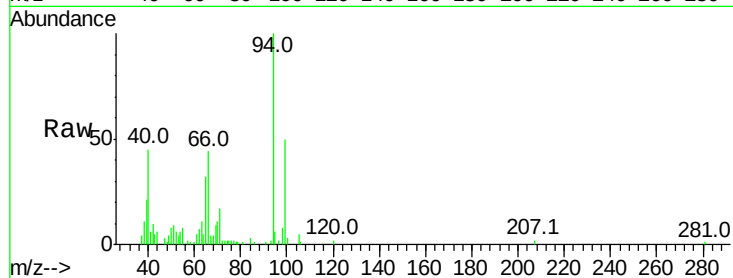
Tot Ion: 94 Resp: 76582

Ion Ratio Lower Upper

94 100

65 32.3 28.2 42.4

66 44.5 47.2 70.8#



#17

Hexachloroethane

Concen: 2.970 ng/ul

RT: 8.77 min Scan# 967

Delta R.T. 0.03 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

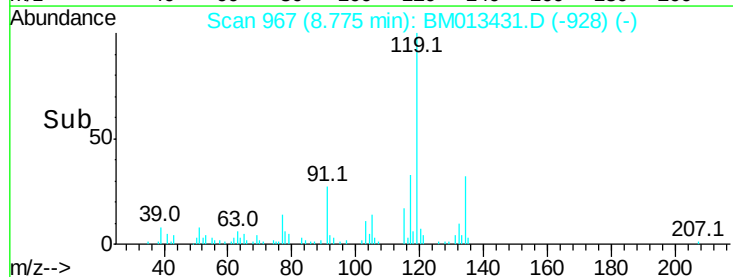
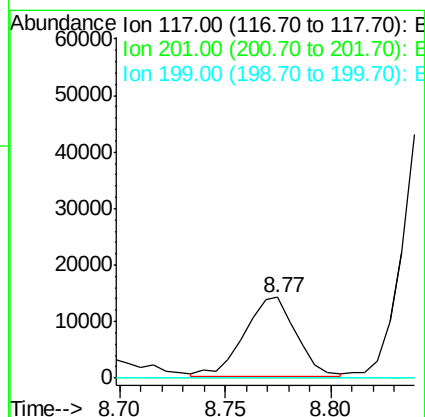
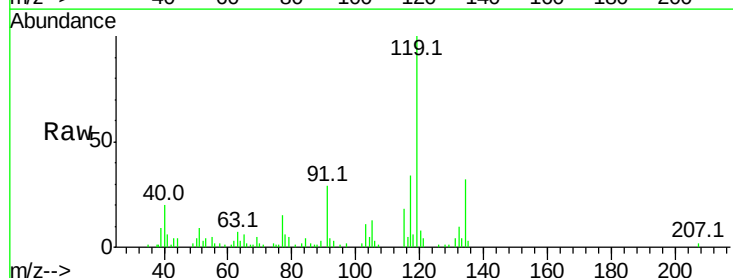
Tgt Ion: 117 Resp: 24040

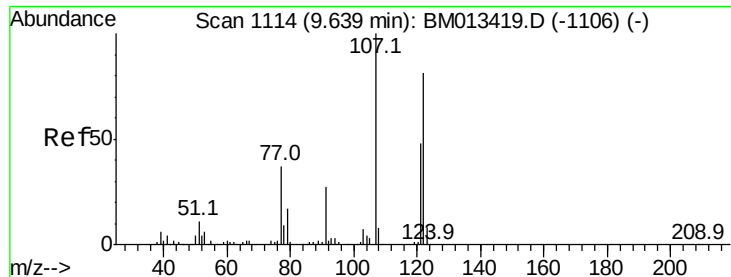
Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

199 0.0 67.8 101.6#





#24

2,4-Dimethylphenol

Concen: 2.240 ng/ul

RT: 9.65 min Scan# 1115

Delta R.T. -0.00 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampled :

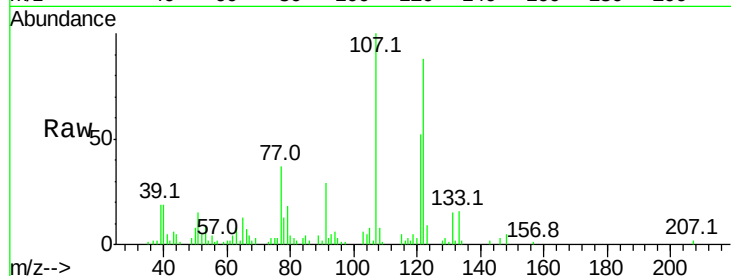
Tot Ion:107 Resp: 52274

Ion Ratio Lower Upper

107 100

121 51.8 31.9 47.9#

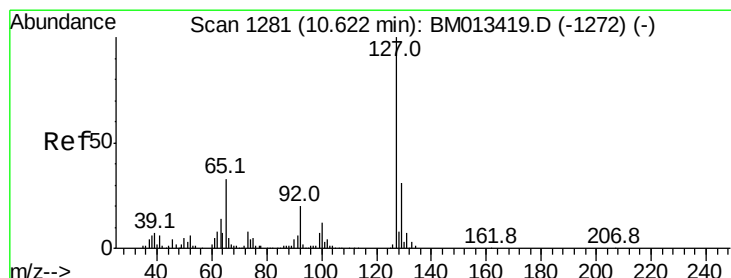
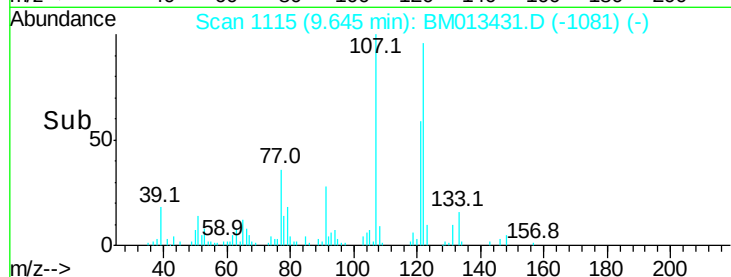
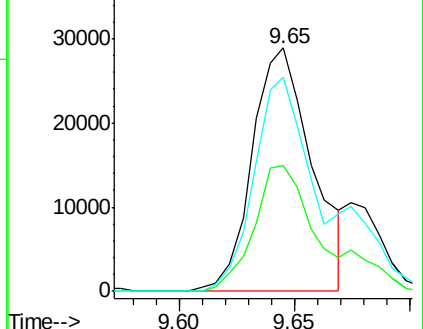
122 87.8 57.8 86.6#



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E



#30

4-Chloroaniline

Concen: 355.463 ng/ul

RT: 10.54 min Scan# 1267

Delta R.T. -0.08 min

Lab File: BM013431.D

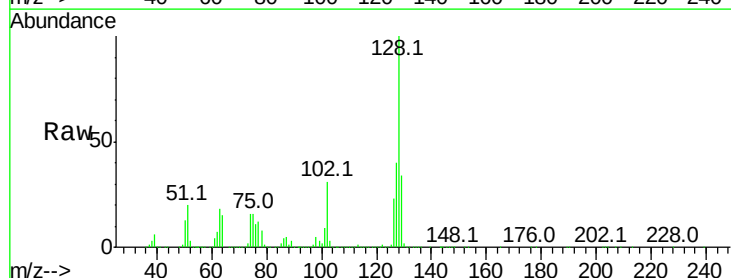
Acq: 15 Dec 2017 08:58

Tgt Ion:127 Resp: 6726986

Ion Ratio Lower Upper

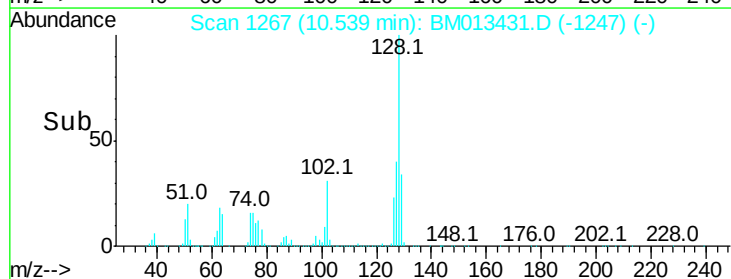
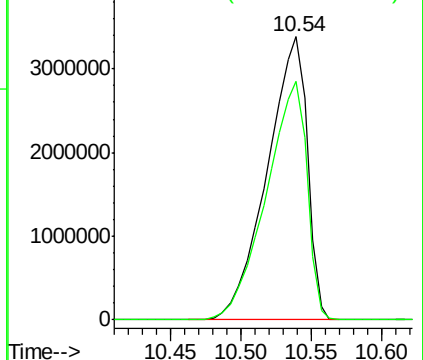
127 100

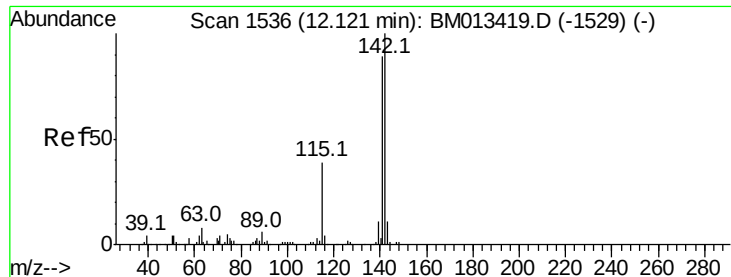
129 84.1 28.4 42.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E





#34

2-Methylnaphthalene

Concen: 207.792 ng/ul

RT: 12.13 min Scan# 1538

Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

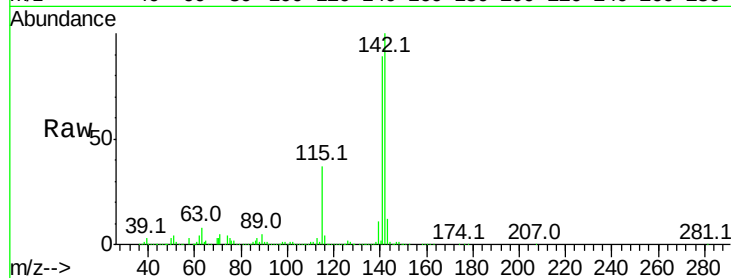
ClientSampleId :

Tot Ion:142 Resp: 9772476

Ion Ratio Lower Upper

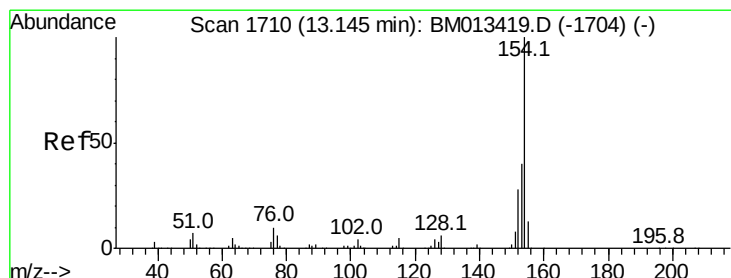
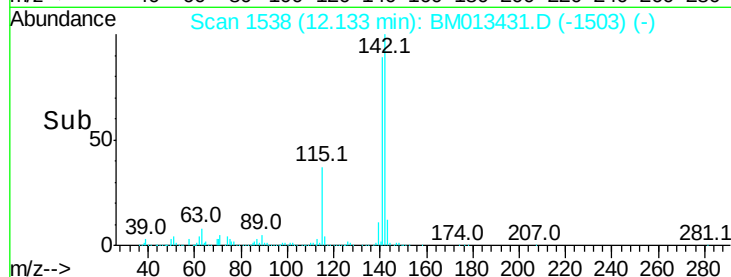
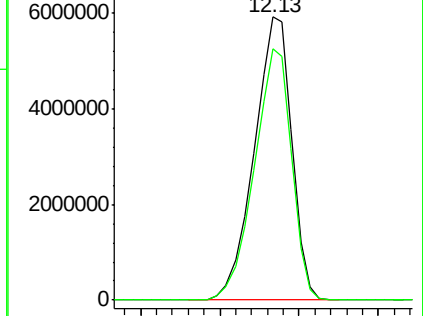
142 100

141 88.7 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#40

1,1'-Biphenyl

Concen: 39.117 ng/ul

RT: 13.15 min Scan# 1711

Delta R.T. -0.00 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

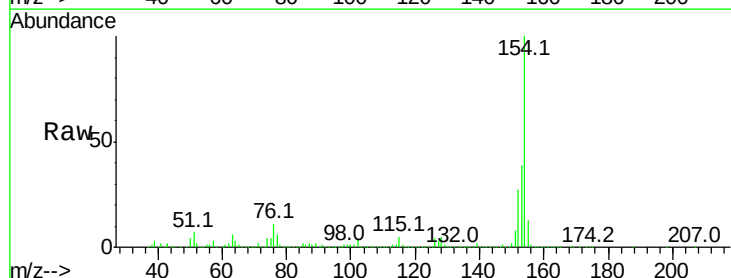
Tgt Ion:154 Resp: 2369545

Ion Ratio Lower Upper

154 100

153 39.3 32.6 48.8

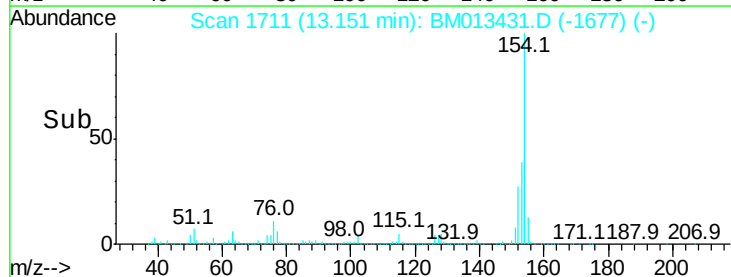
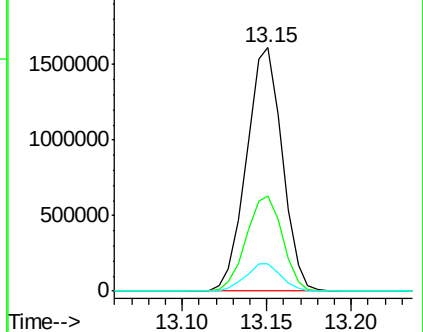
76 11.5 8.5 12.7

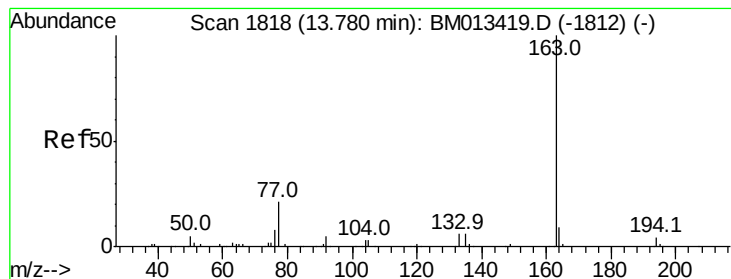


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM





#44

Dimethylphthalate

Concen: 8.566 ng/ul

RT: 13.79 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

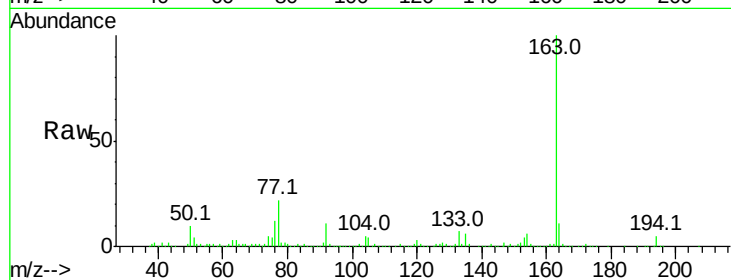
Tot Ion:163 Resp: 522543

Ion Ratio Lower Upper

163 100

194 4.7 3.5 5.3

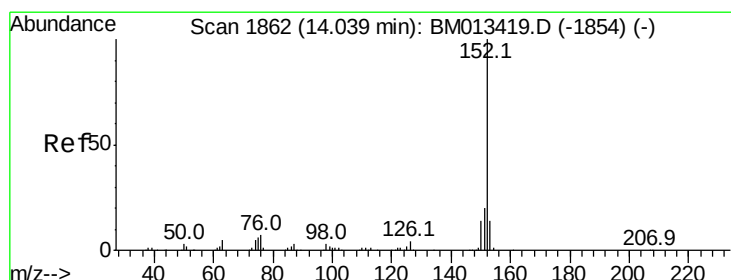
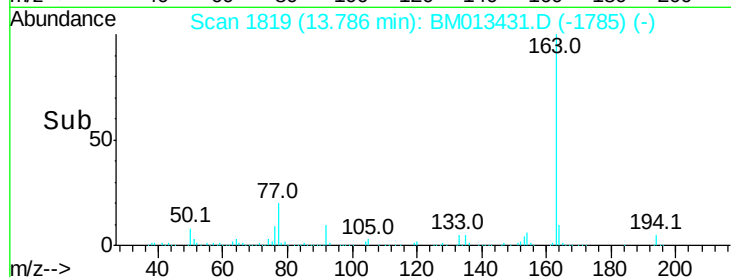
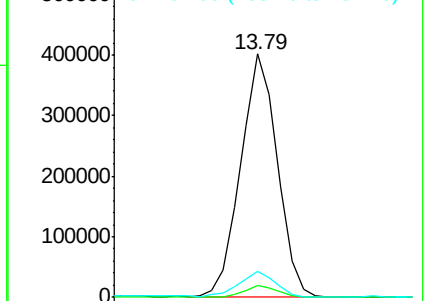
164 10.6 8.2 12.4



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



#47

Acenaphthylene

Concen: 15.728 ng/ul

RT: 14.04 min Scan# 1863

Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

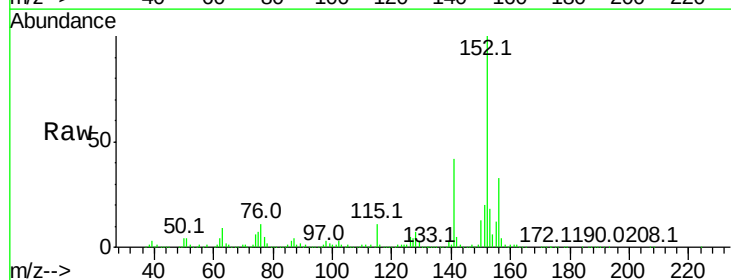
Tgt Ion:152 Resp: 1145619

Ion Ratio Lower Upper

152 100

151 20.5 16.3 24.5

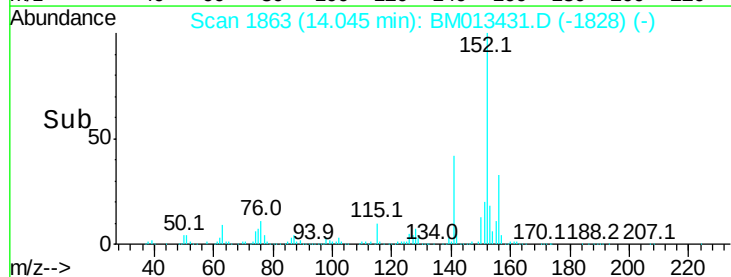
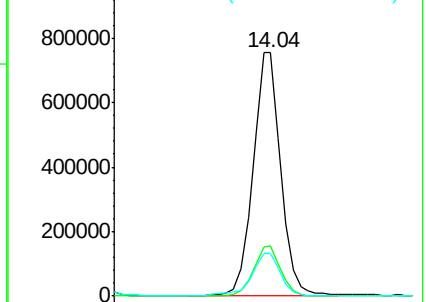
153 17.8 10.2 15.4#

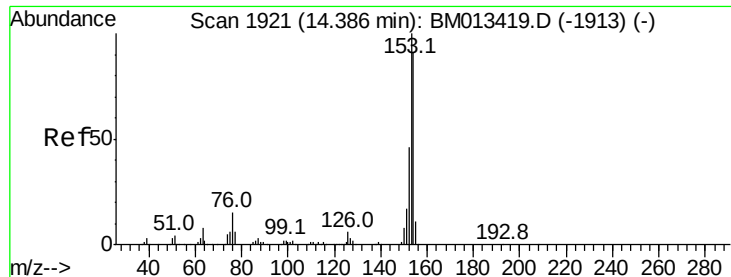


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 186.155 ng/ul

RT: 14.40 min Scan# 1923

Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

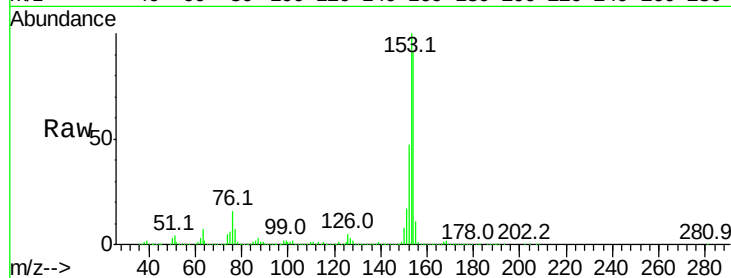
Tot Ion:153 Resp: 9236703

Ion Ratio Lower Upper

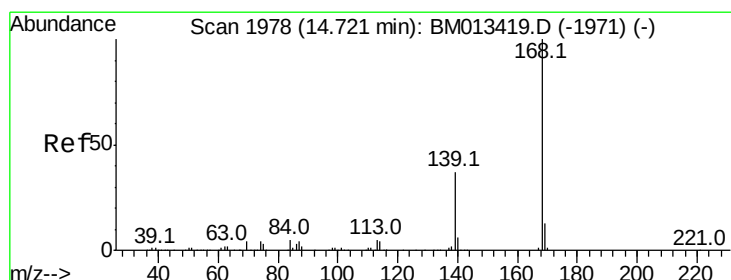
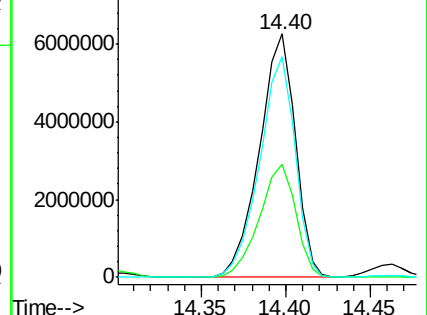
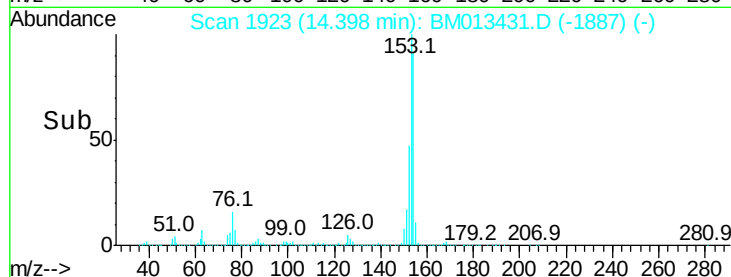
153 100

152 46.5 37.6 56.4

154 90.6 70.4 105.6



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 138.668 ng/ul

RT: 14.73 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BM013431.D

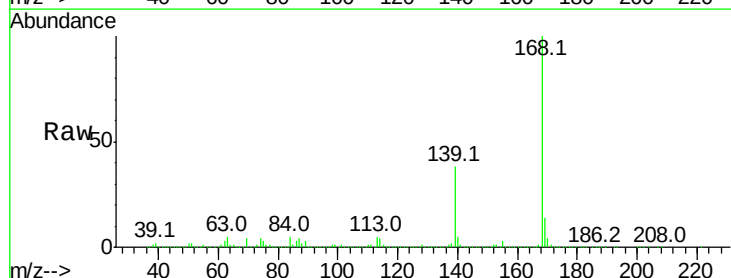
Acq: 15 Dec 2017 08:58

Tgt Ion:168 Resp:10157470

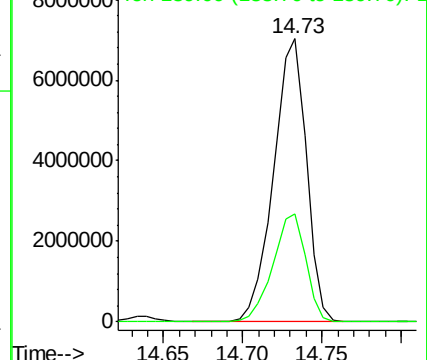
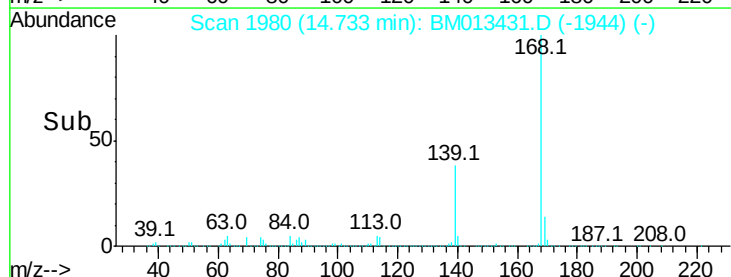
Ion Ratio Lower Upper

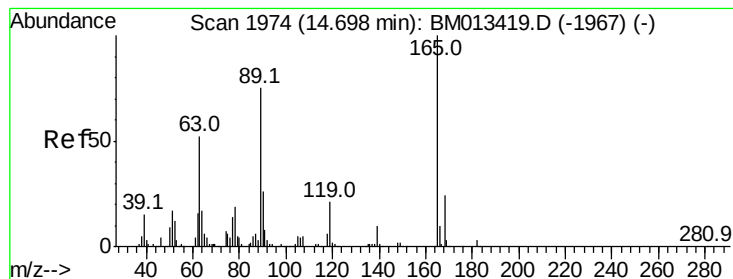
168 100

139 38.2 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





#54

2,4-Dinitrotoluene

Concen: 1.449 ng/ul

RT: 14.69 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

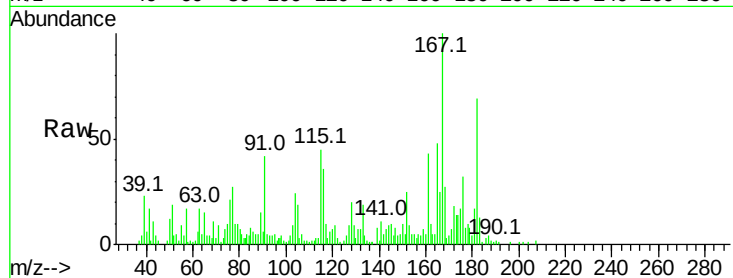
Tot Ion:165 Resp: 26229

Ion Ratio Lower Upper

165 100

63 36.3 45.8 68.8#

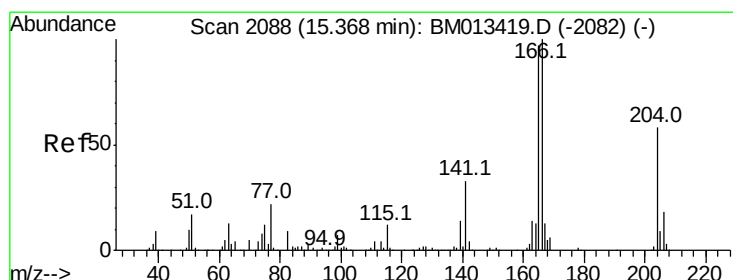
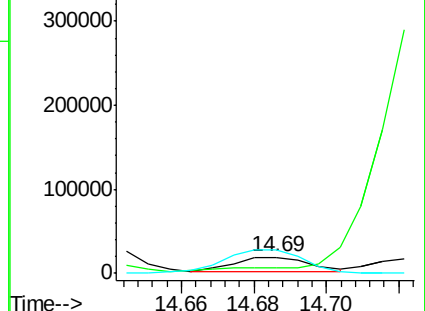
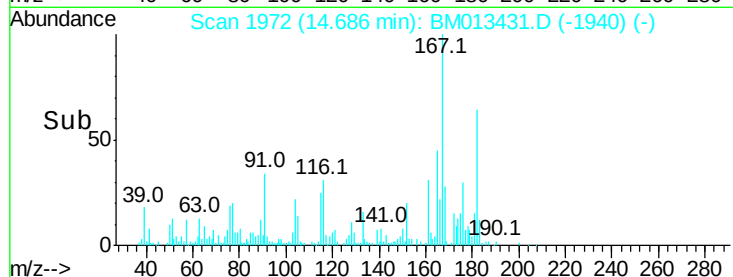
182 146.2 2.6 4.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 182.00 (181.70 to 182.70): E



#58

Fluorene

Concen: 177.543 ng/ul

RT: 15.39 min Scan# 2091

Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

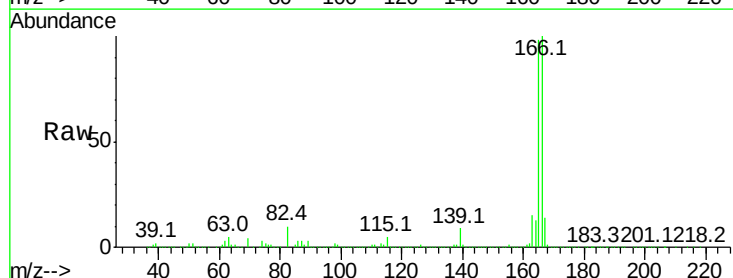
Tgt Ion:166 Resp:10758656

Ion Ratio Lower Upper

166 100

165 98.1 77.9 116.9

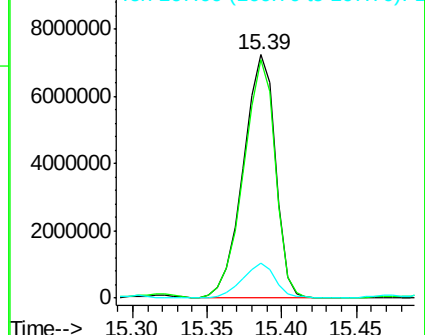
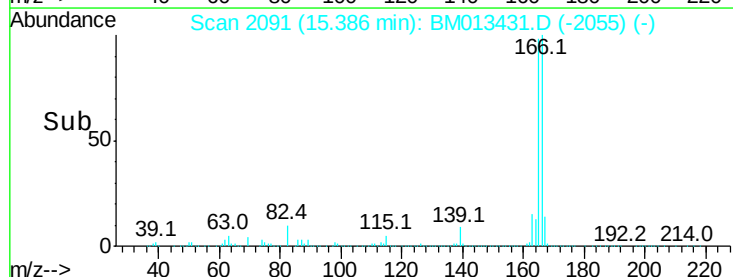
167 14.2 10.6 16.0

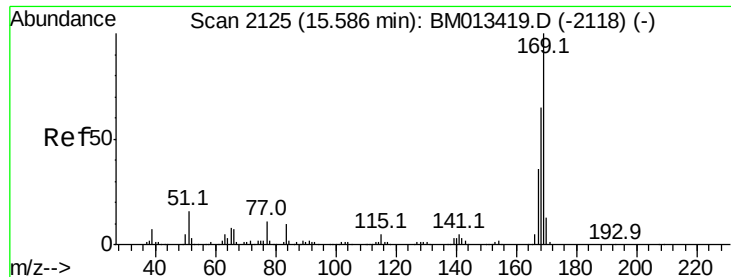


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



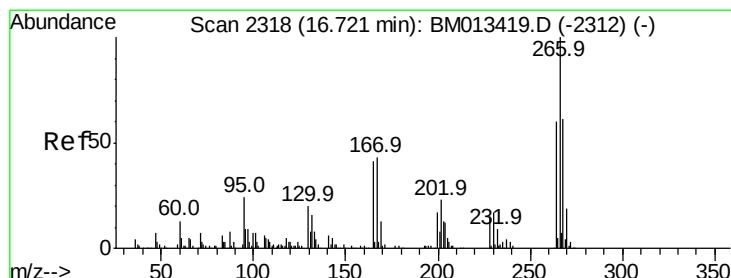
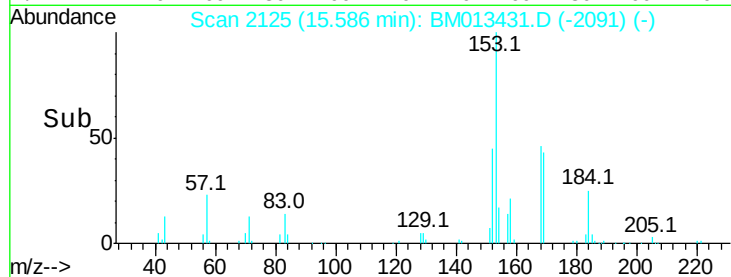
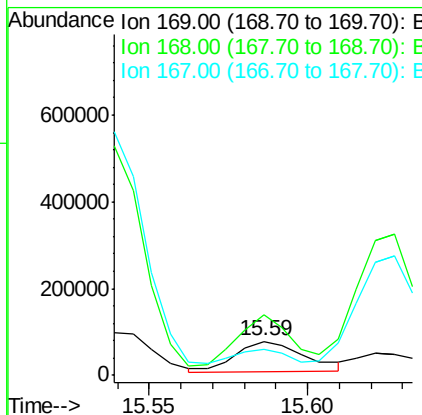
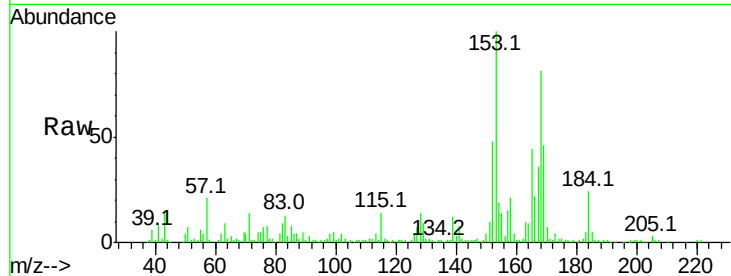


#64

N-Nitrosodiphenylamine
 Concen: 2.355 ng/ul
 RT: 15.59 min Scan# 2125
 Delta R.T. -0.00 min
 Lab File: BM013431.D
 Acq: 15 Dec 2017 08:58

Instrument :
 BNA_M
 ClientSampleId :

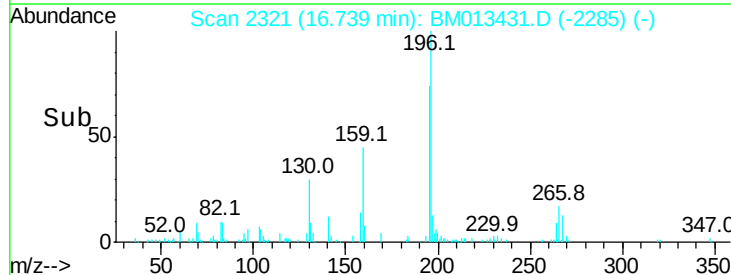
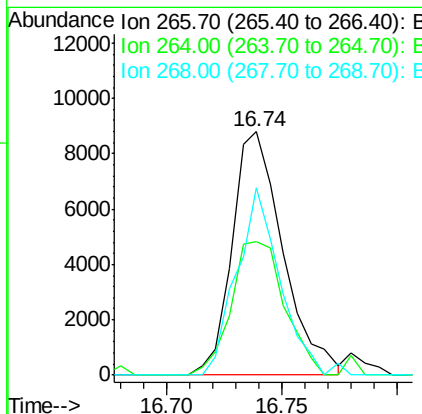
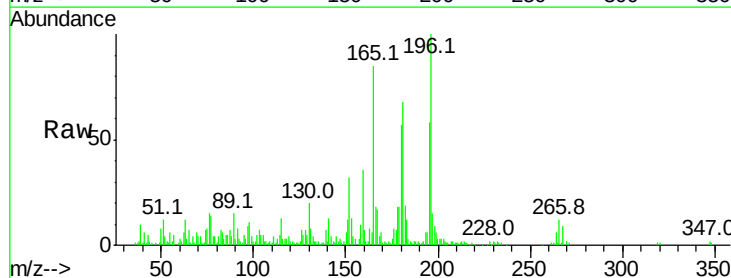
Tot Ion	Ratio	Lower	Upper
169	100		
168	178.3	54.0	81.0#
167	77.9	29.1	43.7#

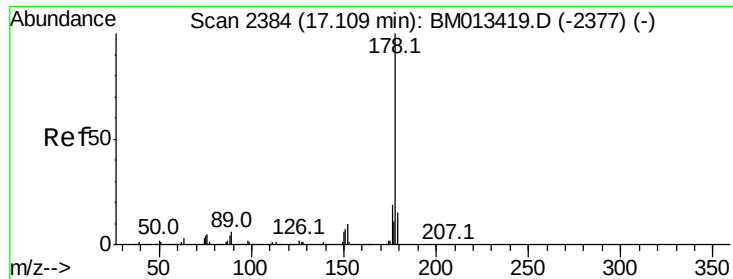


#68

Pentachlorophenol
 Concen: 1.218 ng/ul
 RT: 16.74 min Scan# 2321
 Delta R.T. 0.01 min
 Lab File: BM013431.D
 Acq: 15 Dec 2017 08:58

Tgt Ion	Ratio	Lower	Upper
266	100		
264	54.7	49.3	73.9
268	77.1	52.6	78.8





#69

Phenanthrene

Concen: 74.260 ng/ul

RT: 17.22 min Scan# 2402

Delta R.T. 0.10 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

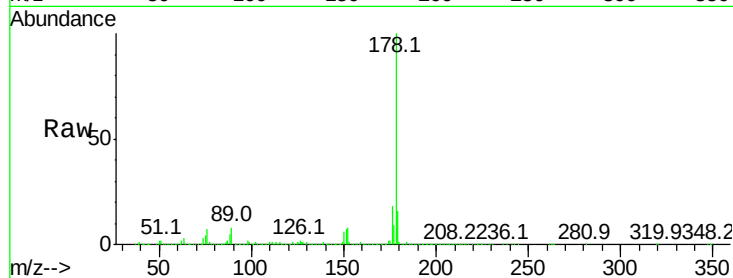
Tot Ion:178 Resp: 6226856

Ion Ratio Lower Upper

178 100

179 15.8 12.6 19.0

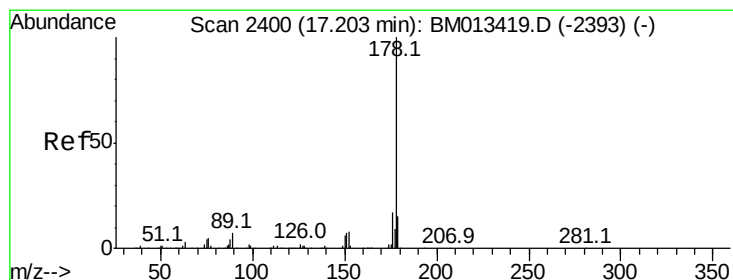
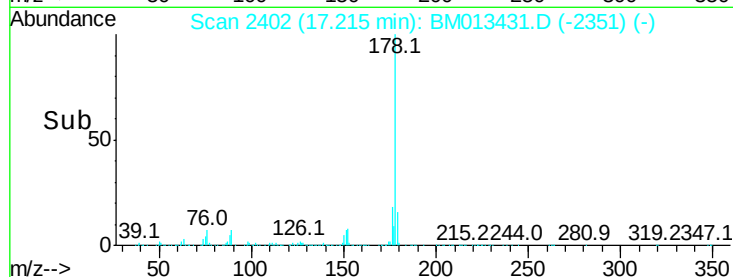
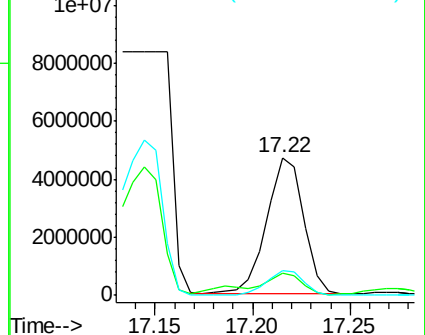
176 17.8 14.9 22.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 72.650 ng/ul

RT: 17.22 min Scan# 2402

Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

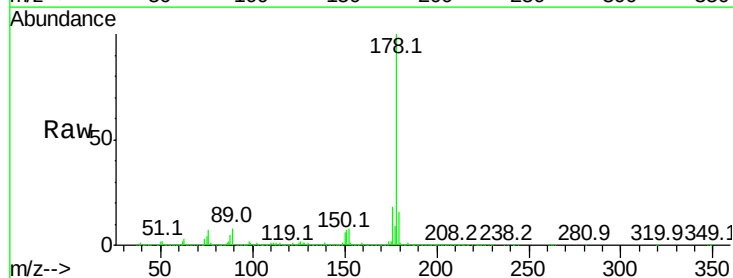
Tgt Ion:178 Resp: 6226856

Ion Ratio Lower Upper

178 100

179 15.8 11.7 17.5

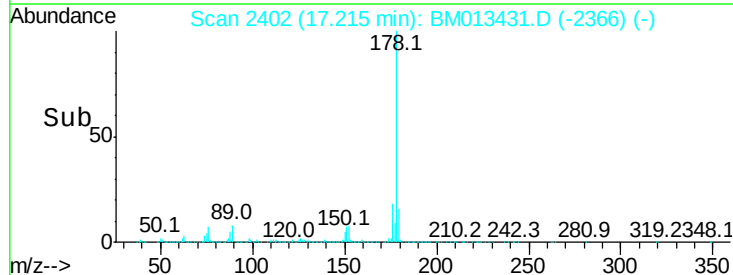
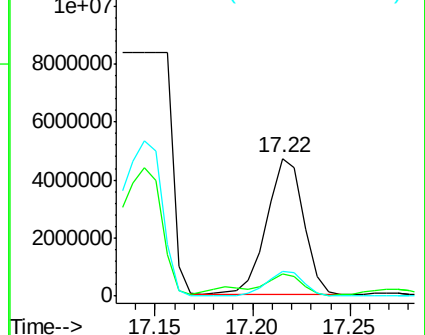
176 17.8 14.6 21.8

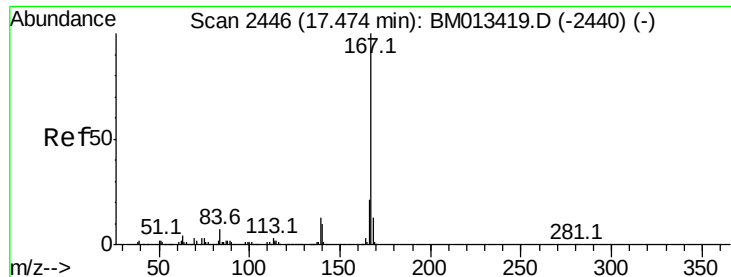


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

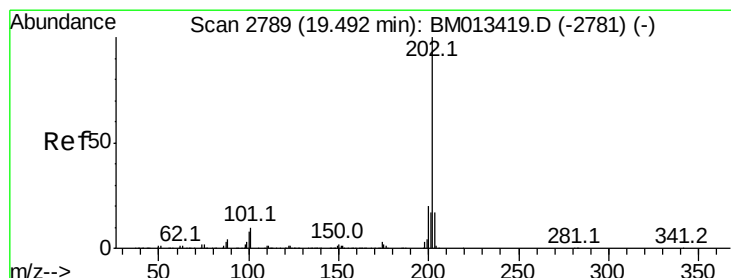
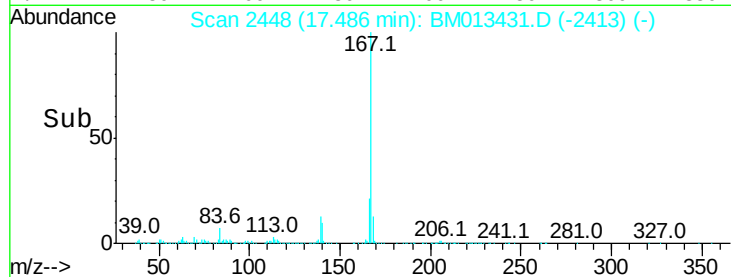
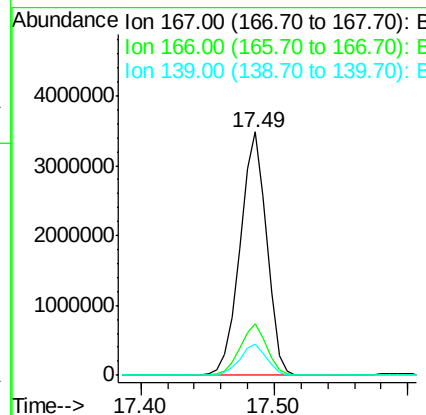
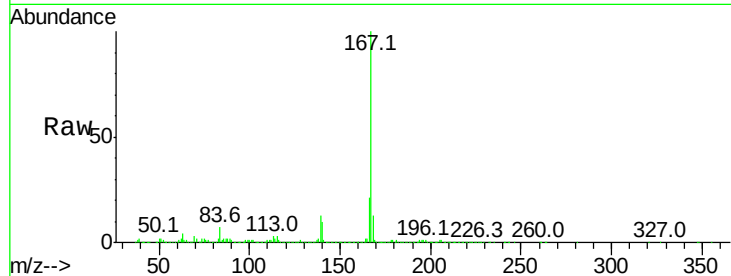




#72
 Carbazole
 Concen: 64.908 ng/ul
 RT: 17.49 min Scan# 2448
 Delta R.T. 0.01 min
 Lab File: BM013431.D
 Acq: 15 Dec 2017 08:58

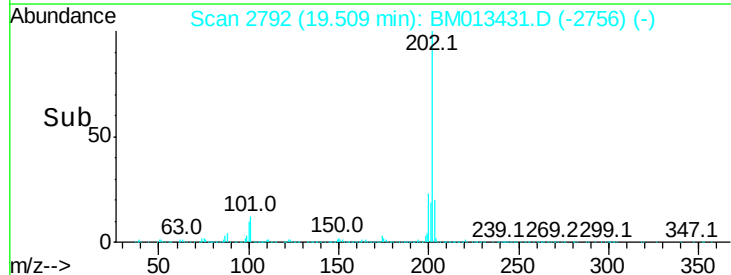
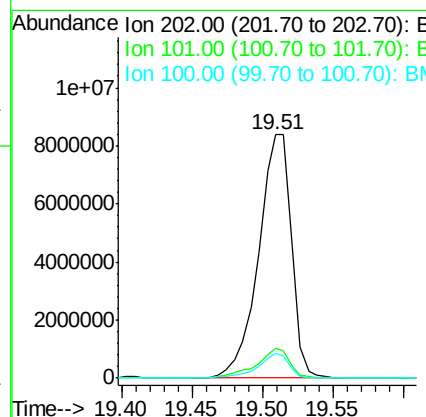
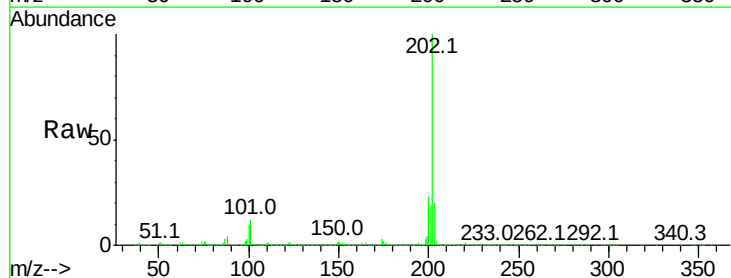
Instrument :
 BNA_M
 ClientSampleId :

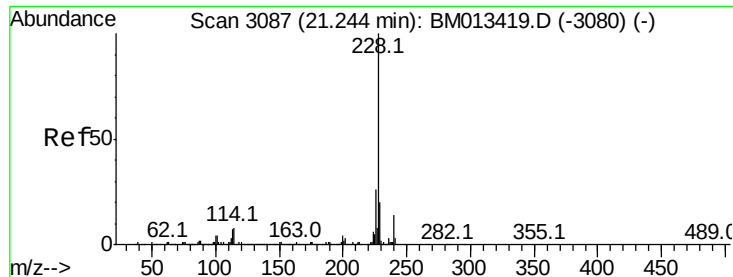
Tot Ion:167 Resp: 4785252
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.1 25.7
 139 12.7 10.0 15.0



#77
 Pyrene
 Concen: 174.556 ng/ul
 RT: 19.51 min Scan# 2792
 Delta R.T. 0.01 min
 Lab File: BM013431.D
 Acq: 15 Dec 2017 08:58

Tgt Ion:202 Resp:13725654
 Ion Ratio Lower Upper
 202 100
 101 12.3 5.1 7.7#
 100 10.3 4.9 7.3#





#80

Benzo(a)anthracene

Concen: 41.654 ng/ul

RT: 21.25 min Scan# 3088

Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

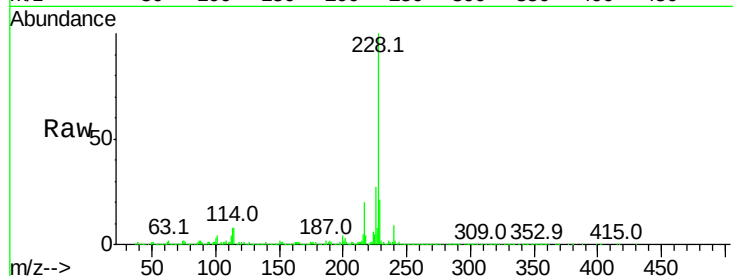
Instrument :

BNA_M

ClientSampleId :

Tot Ion:228 Resp: 3420649

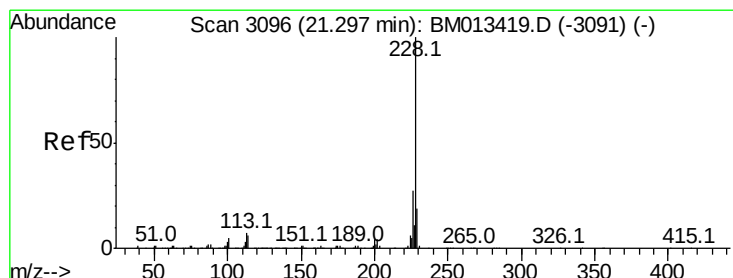
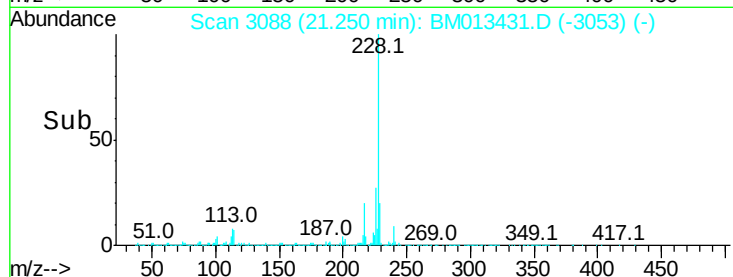
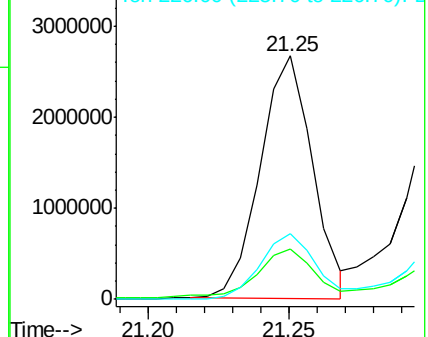
Ion	Ratio	Lower	Upper
228	100		
229	20.8	15.4	23.0
226	27.1	21.4	32.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 36.599 ng/ul

RT: 21.30 min Scan# 3097

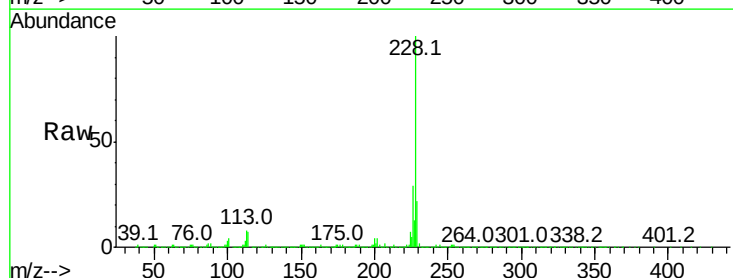
Delta R.T. 0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Tgt Ion:228 Resp: 2788334

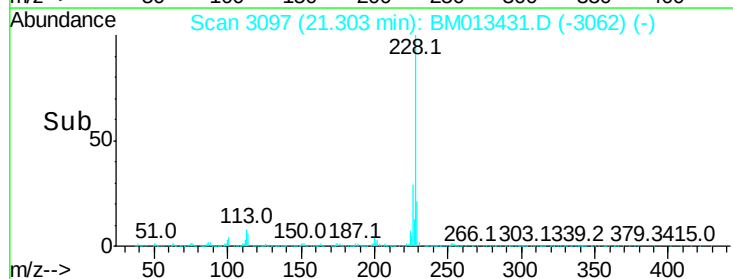
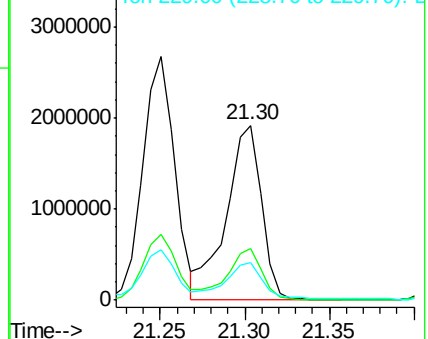
Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.4	35.2
229	21.8	15.5	23.3

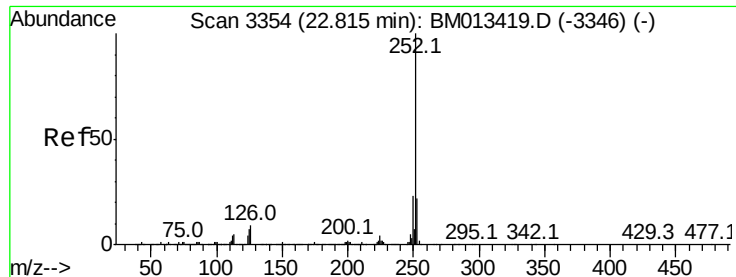


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 25.809 ng/ul

RT: 22.82 min Scan# 3355

Delta R.T. -0.00 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

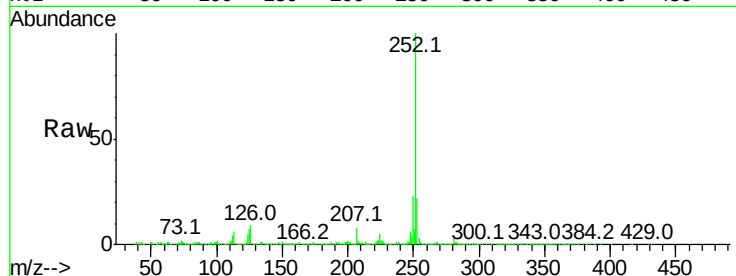
Tot Ion:252 Resp: 1822720

Ion Ratio Lower Upper

252 100

253 22.5 17.9 26.9

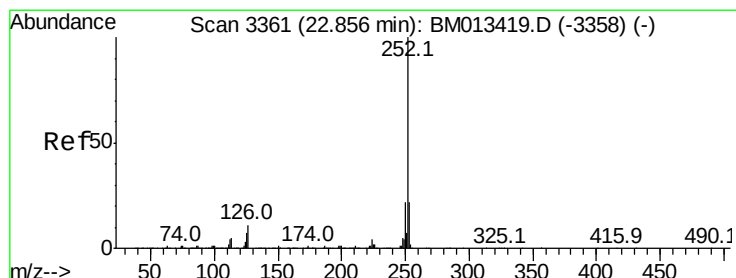
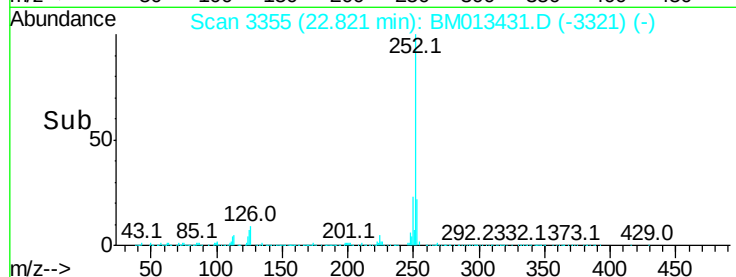
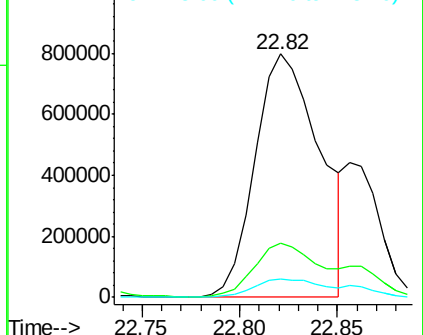
125 7.4 3.6 5.4#



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



#86

Benzo(k)fluoranthene

Concen: 27.425 ng/ul

RT: 22.82 min Scan# 3355

Delta R.T. -0.04 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

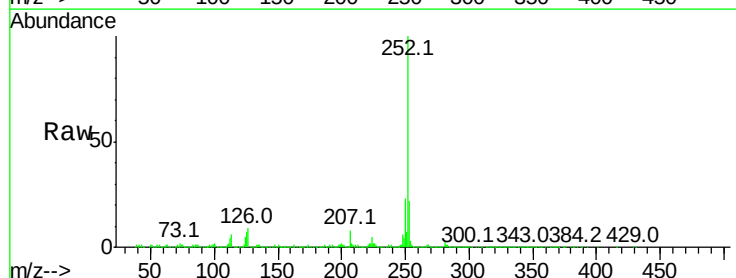
Tgt Ion:252 Resp: 1822720

Ion Ratio Lower Upper

252 100

253 22.5 17.1 25.7

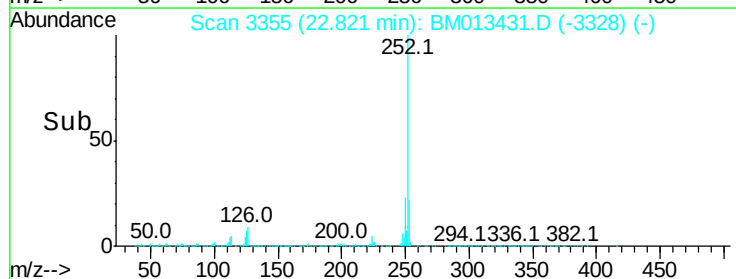
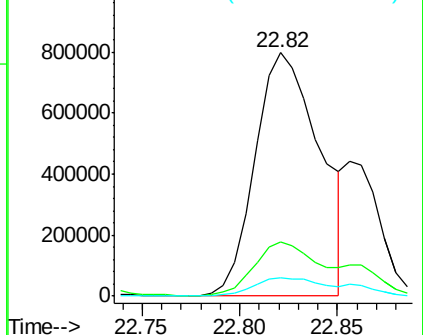
125 7.4 3.4 5.2#

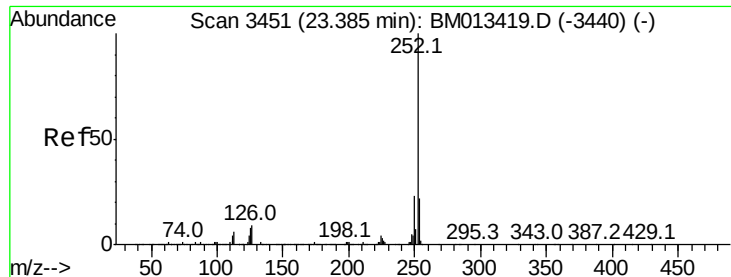


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 17.890 ng/ul

RT: 23.39 min Scan# 3451

Delta R.T. -0.00 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

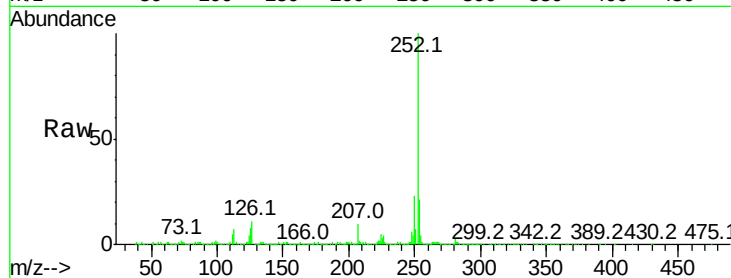
Tot Ion:252 Resp: 1134991

Ion Ratio Lower Upper

252 100

253 21.4 18.2 27.2

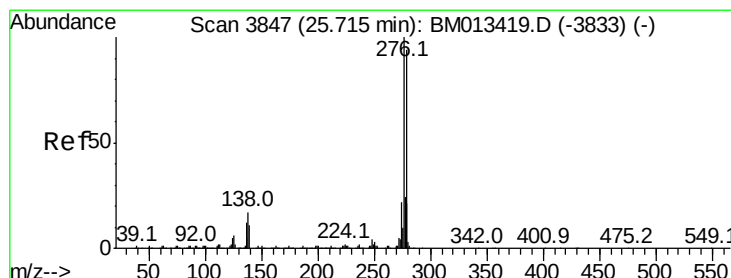
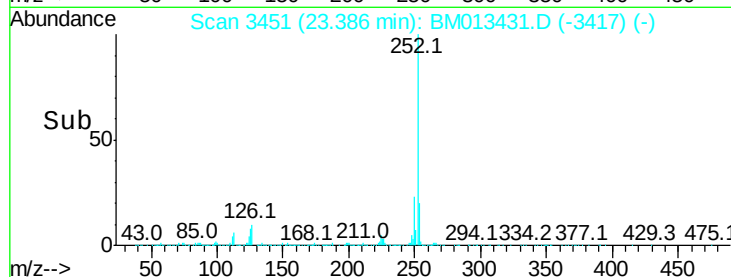
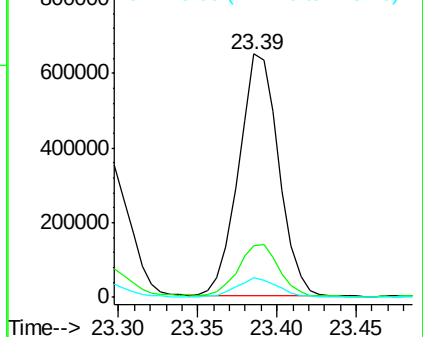
125 8.1 4.0 6.0#



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 7.265 ng/ul

RT: 25.71 min Scan# 3846

Delta R.T. -0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

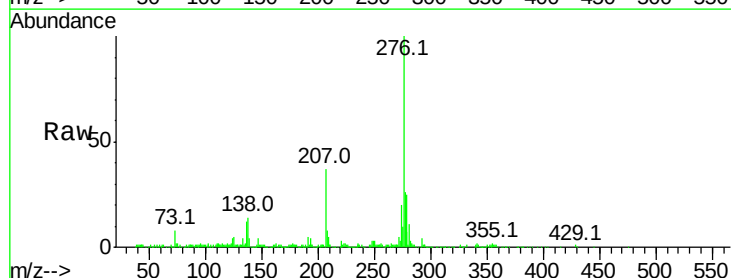
Tgt Ion:276 Resp: 457293

Ion Ratio Lower Upper

276 100

138 14.1 9.3 13.9#

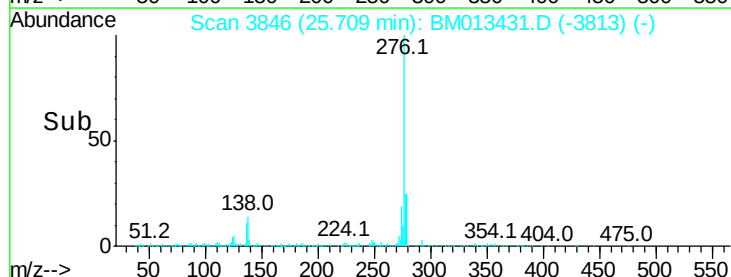
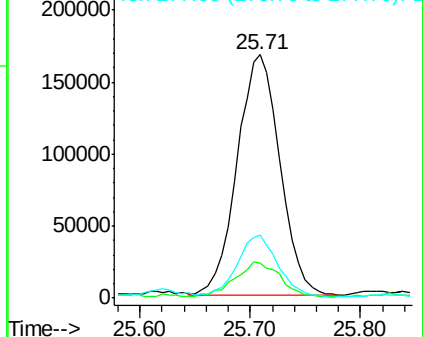
277 25.7 19.9 29.9

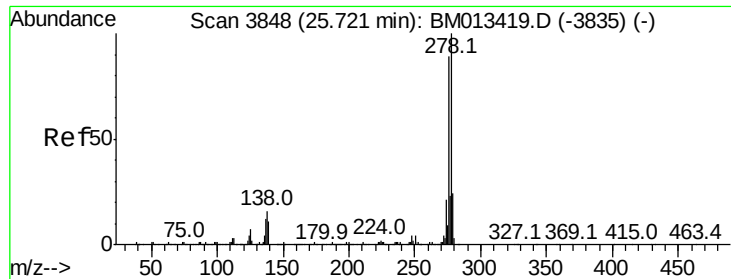


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.492 ng/ul

RT: 25.71 min Scan# 3846

Delta R.T. -0.02 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

Instrument :

BNA_M

ClientSampleId :

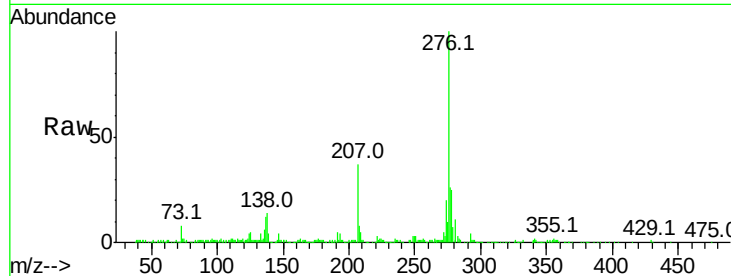
Tot Ion:278 Resp: 133580

Ion Ratio Lower Upper

278 100

139 15.1 5.8 8.8#

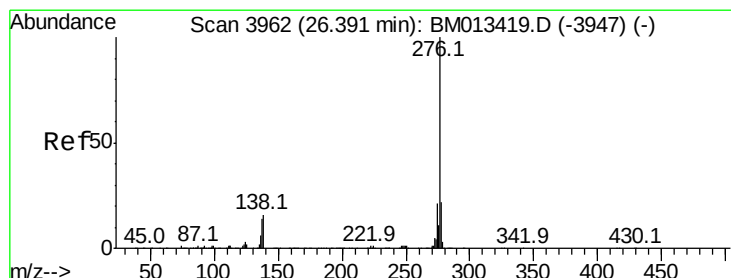
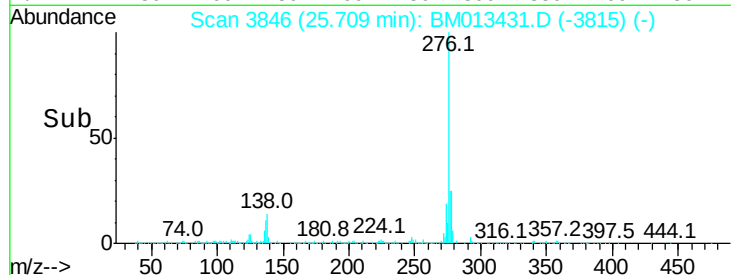
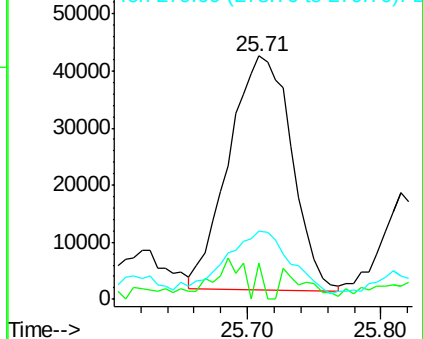
279 28.2 18.6 27.8#



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(g,h,i)perylene

Concen: 6.857 ng/ul

RT: 26.39 min Scan# 3962

Delta R.T. -0.01 min

Lab File: BM013431.D

Acq: 15 Dec 2017 08:58

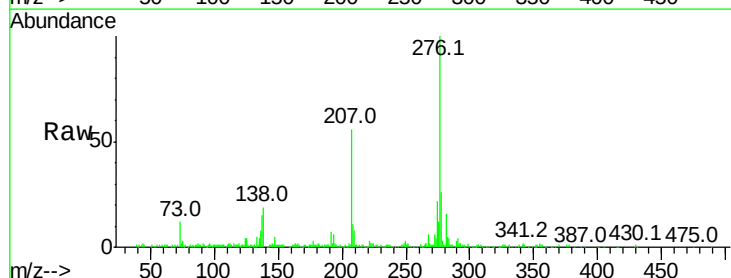
Tgt Ion:276 Resp: 340454

Ion Ratio Lower Upper

276 100

138 18.5 8.5 12.7#

277 25.7 18.6 28.0



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

