

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051719\
 Data File : BM020368.D
 Acq On : 17 May 2019 17:02
 Operator : JU/SJ
 Sample : K2604-02DL 30X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 GAJ76DL

Quant Time: May 18 02:56:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 02:51:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	72680	20.00	ng/ul	0.00
18) Naphthalene-d8	10.53	136	270437	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.39	164	168850	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.14	188	393290	20.00	ng/ul	0.00
77) Chrysene-d12	21.33	240	393169	20.00	ng/ul	0.00
85) Perylene-d12	23.61	264	441054	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.90	99	3220	0.56	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.09	67	2297	0.62	ng/ul	0.01
9) 2-Chlorophenol-d4	7.26	132	3239	0.76	ng/ul	0.00
13) 4-Methylphenol-d8	8.45	113	2318	0.55	ng/ul	0.00
19) Nitrobenzene-d5	8.91	128	929	0.53	ng/ul	0.00
22) 2-Nitrophenol-d4	9.63	143	1097	0.57	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.16	165	1593	0.39	ng/ul	0.01
29) 4-Chloroaniline-d4	10.70	131	3230	0.76	ng/ul	0.03
43) Dimethylphthalate-d6	13.80	166	14764	1.22	ng/ul	0.00
46) Acenaphthylene-d8	14.07	160	16622	1.09	ng/ul	0.00
51) 4-Nitrophenol-d4	14.61	143	305	0.17	ng/ul	0.00
57) Fluorene-d10	15.38	176	13790	1.28	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.51	200	619	0.28	ng/ul	0.00
70) Anthracene-d10	17.14	188	393290	23.31	ng/ul	-0.09
78) Pyrene-d10	19.53	212	24599	1.30	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.46	264	23815	1.19	ng/ul	0.00

Target Compounds

					Qvalue	
17) Hexachloroethane	8.82	117	2056	1.003	ng/ul#	1
28) Naphthalene	10.57	128	707216	56.918	ng/ul	99
32) Caprolactam	11.52	113	1702	1.494	ng/ul#	53
34) 2-Methylnaphthalene	12.19	142	247715	27.535	ng/ul	97
40) 1,1'-Biphenyl	13.21	154	32680	2.704	ng/ul	99
47) Acenaphthylene	14.10	152	239875	16.740	ng/ul	97
49) Acenaphthene	14.45	153	32281	3.277	ng/ul	95
53) Dibenzofuran	14.79	168	73193	4.906	ng/ul	100
54) 2,4-Dinitrotoluene	14.78	165	3288	1.024	ng/ul#	1
58) Fluorene	15.43	166	210452	17.610	ng/ul	99
60) 4-Nitroaniline	15.43	138	2430	1.268	ng/ul#	4
69) Phenanthrene	17.18	178	1384554	73.885	ng/ul	99
71) Anthracene	17.27	178	379300	19.898	ng/ul	100
74) Carbazole	17.54	167	17527	1.083	ng/ul#	78
76) Fluoranthene	19.20	202	1058559	44.719	ng/ul	99
79) Pyrene	19.57	202	1327786	56.265	ng/ul	100
82) Benzo(a)anthracene	21.32	228	536826	22.685	ng/ul	96
84) Chrysene	21.37	228	458501	20.275	ng/ul	95
87) Benzo(b)fluoranthene	22.92	252	393147	15.618	ng/ul#	97
88) Benzo(k)fluoranthene	22.92	252	393147	15.901	ng/ul	98
90) Benzo(a)pyrene	23.51	252	403819	17.047	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	25.90	276	171642	6.359	ng/ul	98
92) Dibenz(a,h)anthracene	25.91	278	50830	2.202	ng/ul#	89

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Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 02:51:01 2019
Response via : Initial Calibration

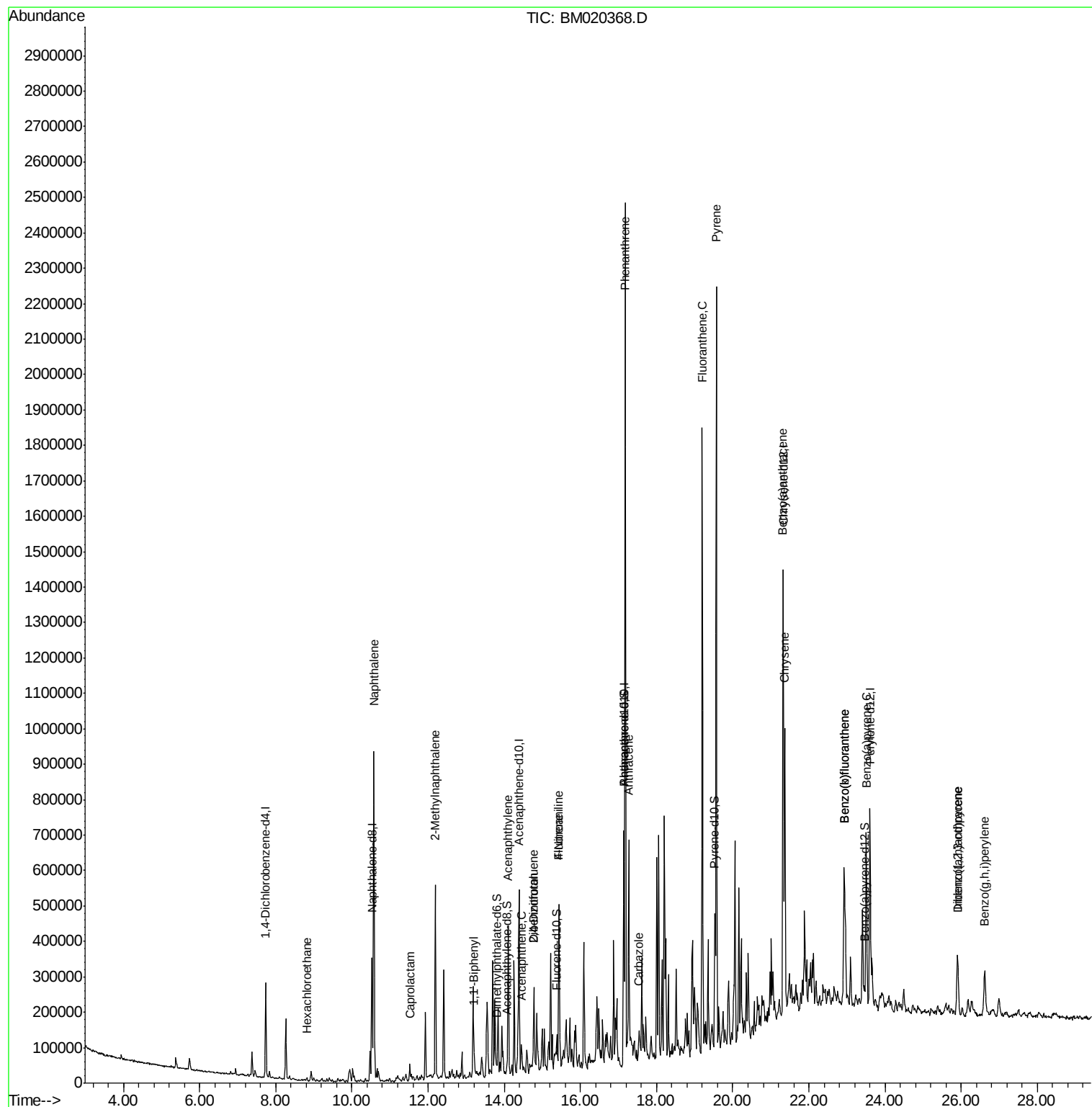
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Benzo(g,h,i)perylene	26.61	276	158052	7.074	ng/ul#	95

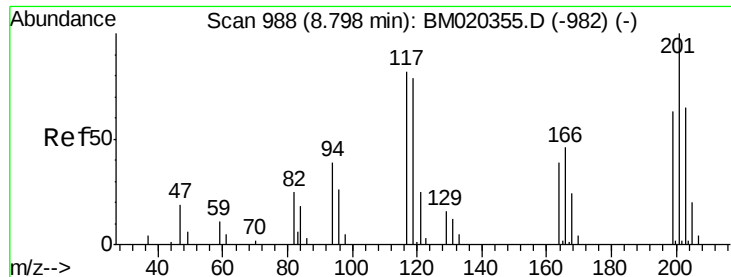
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 02:51:01 2019
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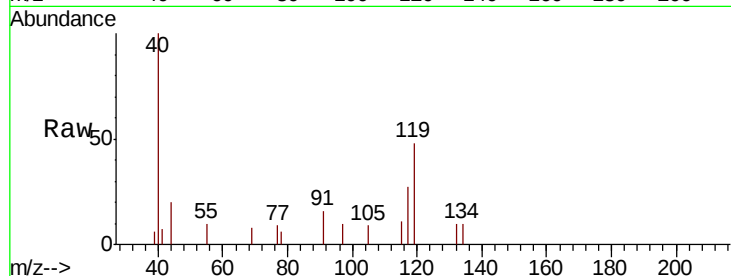




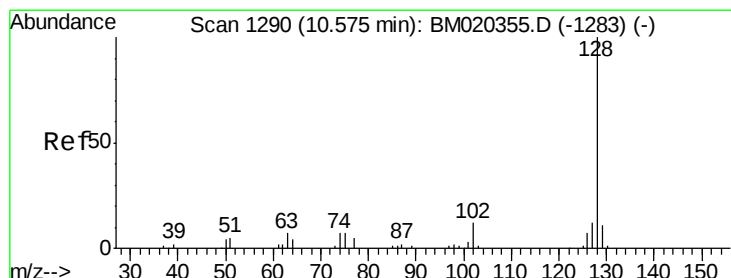
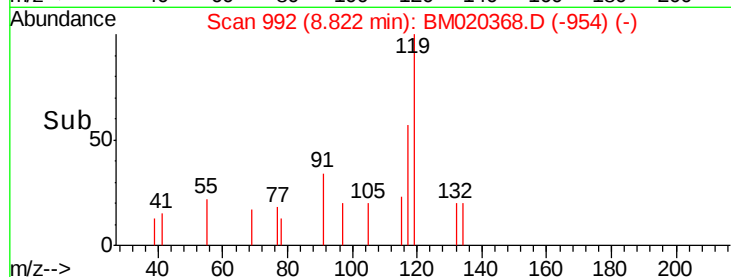
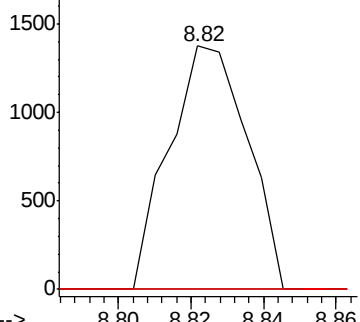
#17
Hexachloroethane
Concen: 1.003 ng/ul
RT: 8.82 min Scan# 992
Delta R.T. 0.02 min
Lab File: BM020368.D
Acq: 17 May 2019 17:02

Instrument :
BNA_M
ClientSampleId :
GAJ76DL

Tgt Ion:117 Resp: 2056
Ion Ratio Lower Upper
117 100
201 0.0 102.4 153.6#
199 0.0 63.3 94.9#

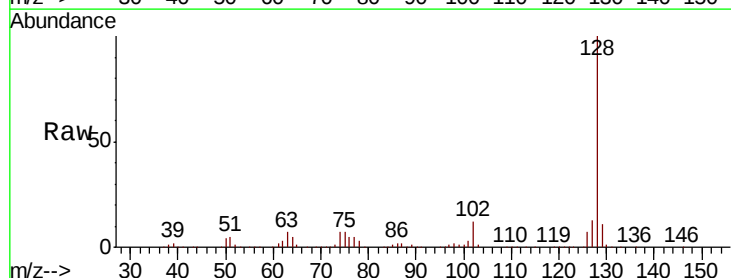


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

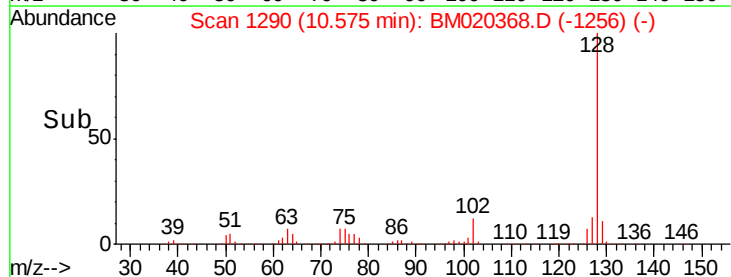
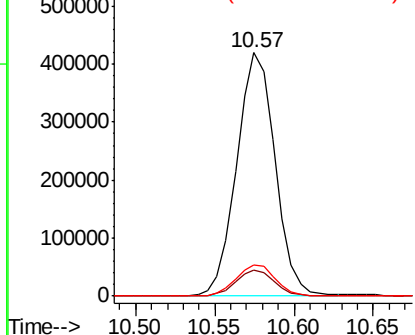


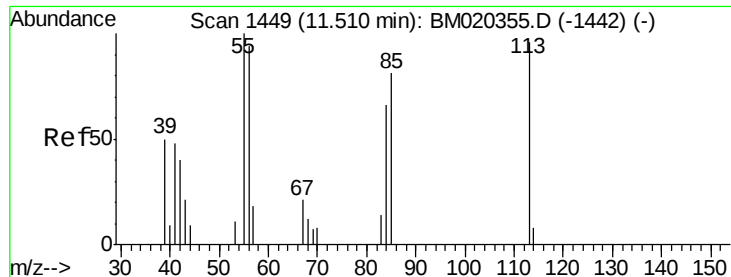
#28
Naphthalene
Concen: 56.918 ng/ul
RT: 10.57 min Scan# 1290
Delta R.T. 0.00 min
Lab File: BM020368.D
Acq: 17 May 2019 17:02

Tgt Ion:128 Resp: 707216
Ion Ratio Lower Upper
128 100
129 10.9 8.6 13.0
127 12.8 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#32

Caprolactam

Concen: 1.494 ng/ul

RT: 11.52 min Scan# 1451

Delta R.T. 0.01 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

Instrument :

BNA_M

ClientSampleId :

GAJ76DL

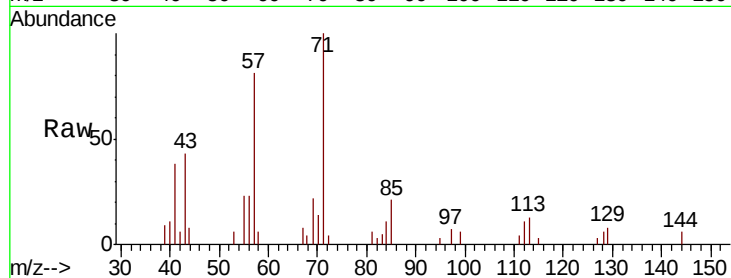
Tgt Ion:113 Resp: 1702

Ion Ratio Lower Upper

113 100

55 176.0 104.6 156.8#

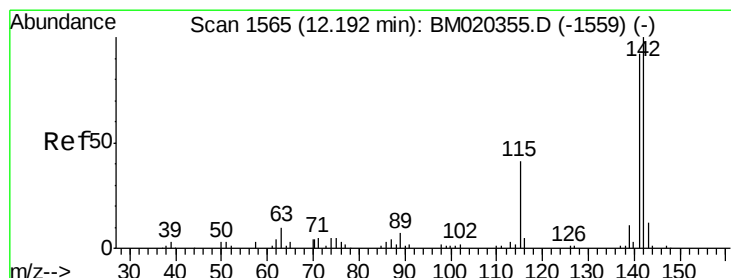
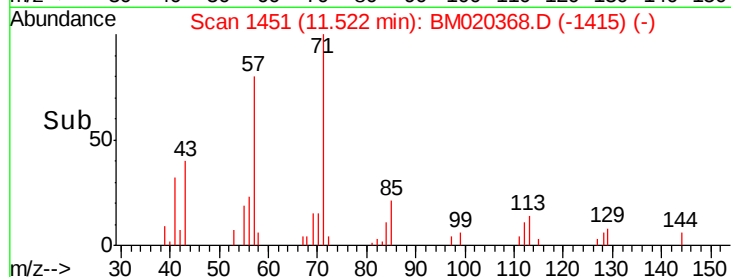
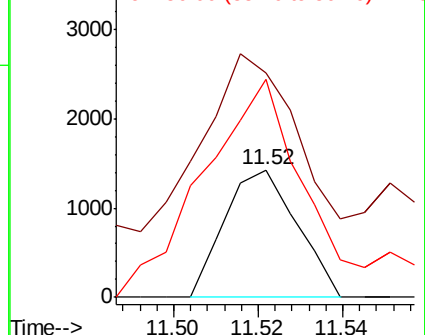
56 170.5 88.4 132.6#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0



#34

2-Methylnaphthalene

Concen: 27.535 ng/ul

RT: 12.19 min Scan# 1565

Delta R.T. 0.00 min

Lab File: BM020368.D

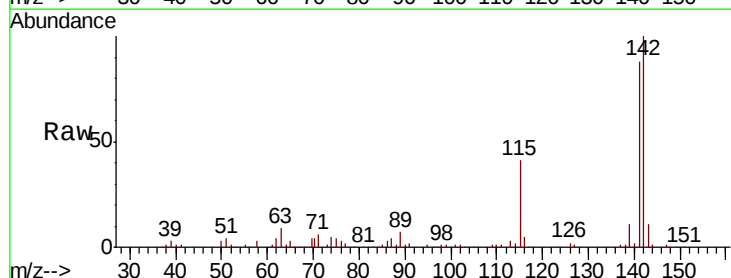
Acq: 17 May 2019 17:02

Tgt Ion:142 Resp: 247715

Ion Ratio Lower Upper

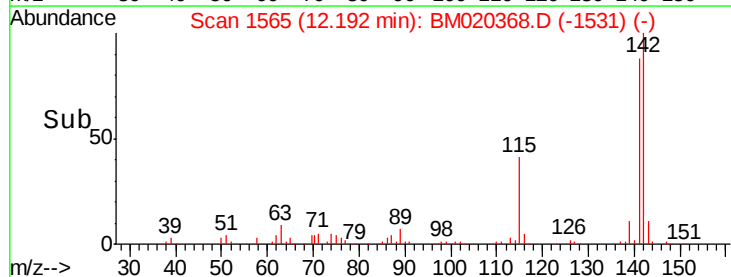
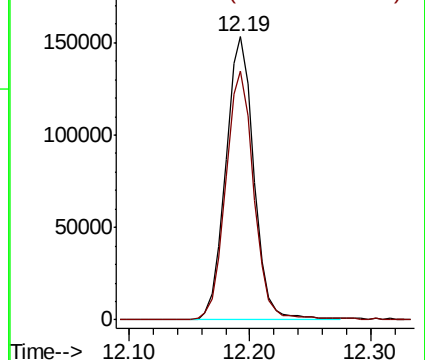
142 100

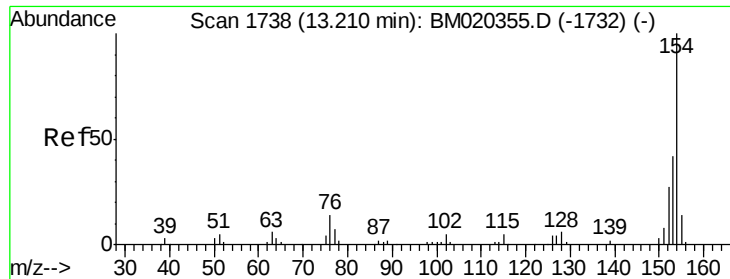
141 88.1 68.6 102.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

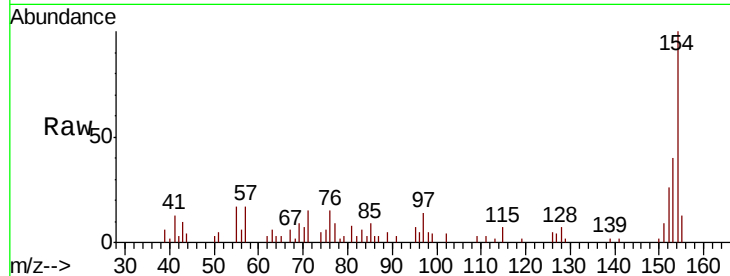




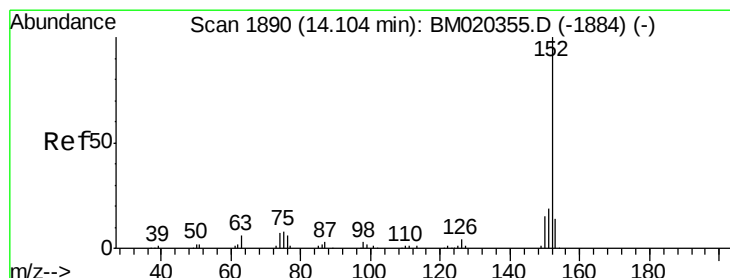
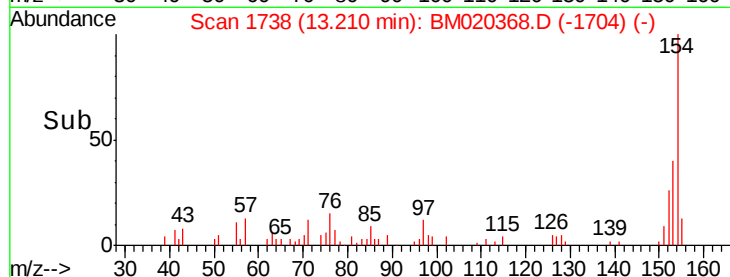
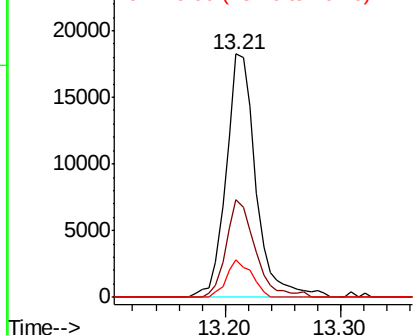
#40
 1,1'-Biphenyl
 Concen: 2.704 ng/ul
 RT: 13.21 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: BM020368.D
 Acq: 17 May 2019 17:02

Instrument :
 BNA_M
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 GAJ76DL

Tgt Ion:154 Resp: 32680
 Ion Ratio Lower Upper
 154 100
 153 40.2 32.2 48.4
 76 15.2 11.0 16.4

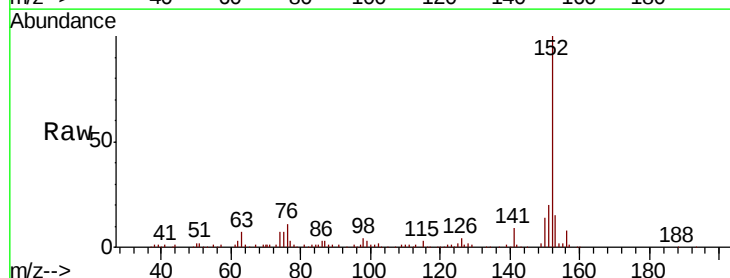


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM

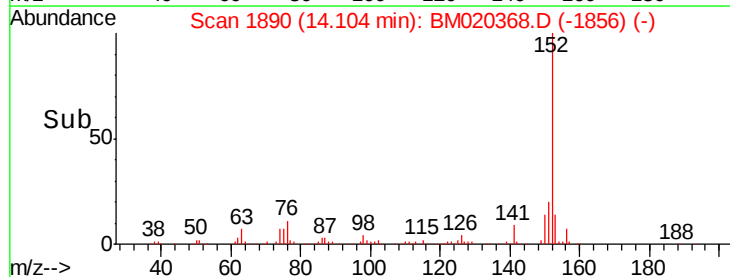
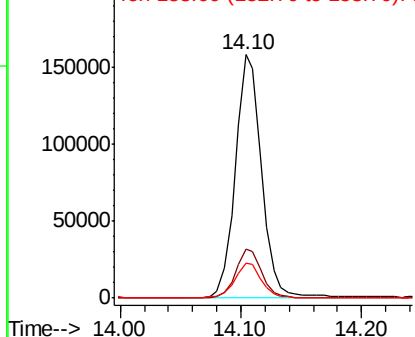


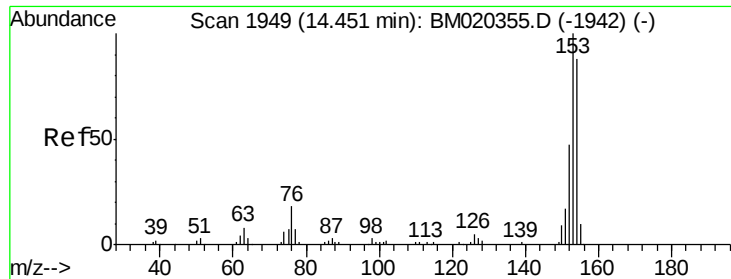
#47
 Acenaphthylene
 Concen: 16.740 ng/ul
 RT: 14.10 min Scan# 1890
 Delta R.T. 0.00 min
 Lab File: BM020368.D
 Acq: 17 May 2019 17:02

Tgt Ion:152 Resp: 239875
 Ion Ratio Lower Upper
 152 100
 151 20.0 15.4 23.0
 153 14.6 10.3 15.5



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: 3.277 ng/ul

RT: 14.45 min Scan# 1949

Delta R.T. 0.00 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

Instrument :

BNA_M

ClientSampleId :

GAJ76DL

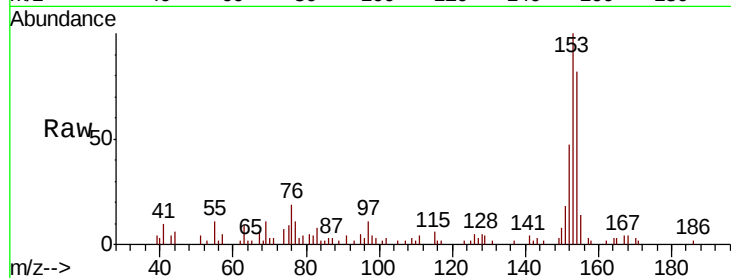
Tgt Ion:153 Resp: 32281

Ion Ratio Lower Upper

153 100

152 46.9 37.9 56.9

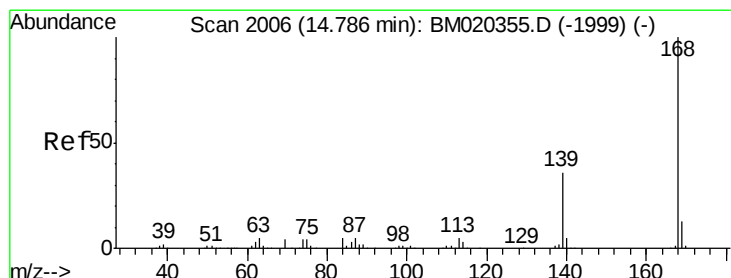
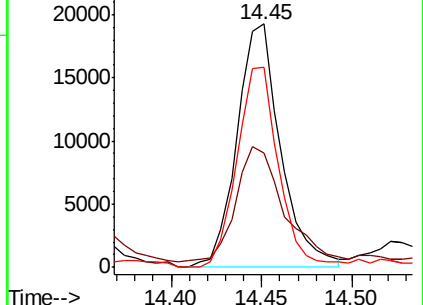
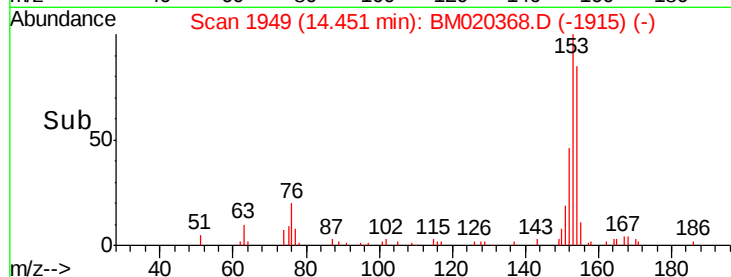
154 82.2 71.2 106.8



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: 4.906 ng/ul

RT: 14.79 min Scan# 2006

Delta R.T. 0.00 min

Lab File: BM020368.D

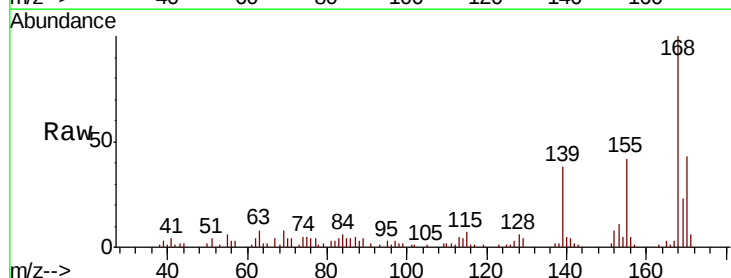
Acq: 17 May 2019 17:02

Tgt Ion:168 Resp: 73193

Ion Ratio Lower Upper

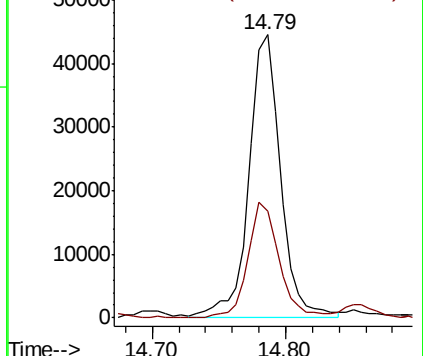
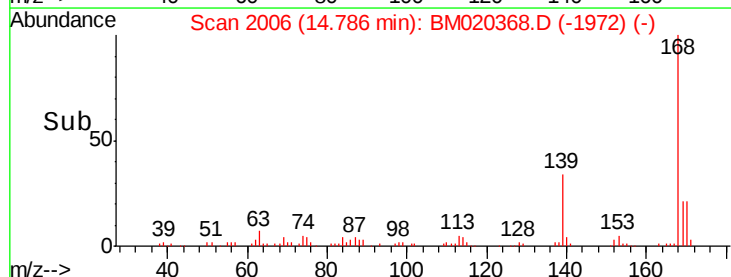
168 100

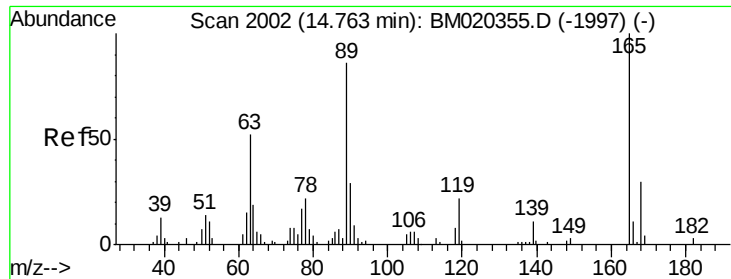
139 37.5 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#54

2,4-Dinitrotoluene

Concen: 1.024 ng/ul

RT: 14.78 min Scan# 2005

Delta R.T. 0.02 min

Lab File: BM020368.D

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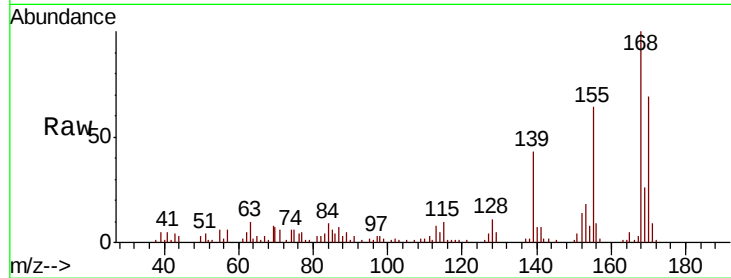
Tgt Ion:165 Resp: 3288

Ion Ratio Lower Upper

165 100

63 203.5 43.2 64.8#

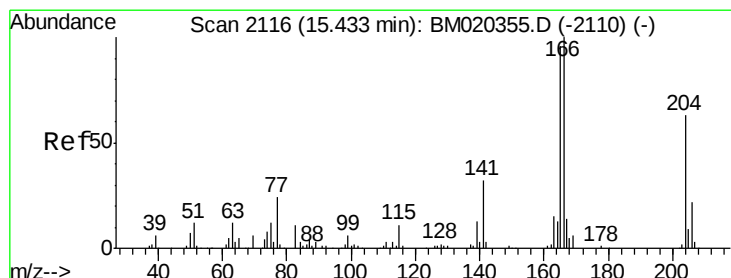
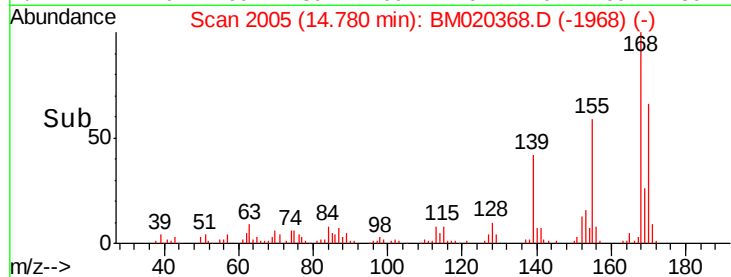
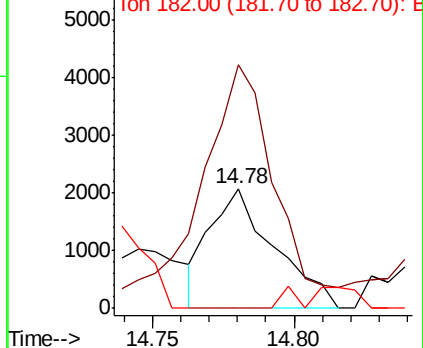
182 0.0 2.6 4.0#



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: 17.610 ng/ul

RT: 15.43 min Scan# 2116

Delta R.T. 0.00 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

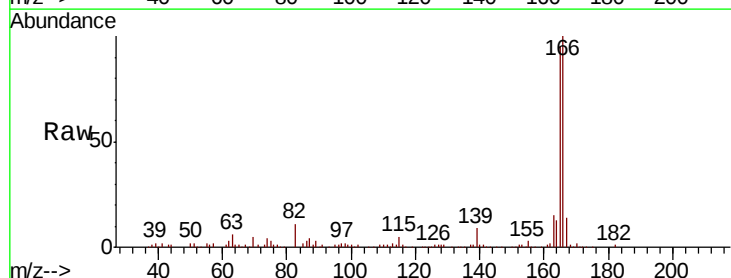
Tgt Ion:166 Resp: 210452

Ion Ratio Lower Upper

166 100

165 95.4 77.1 115.7

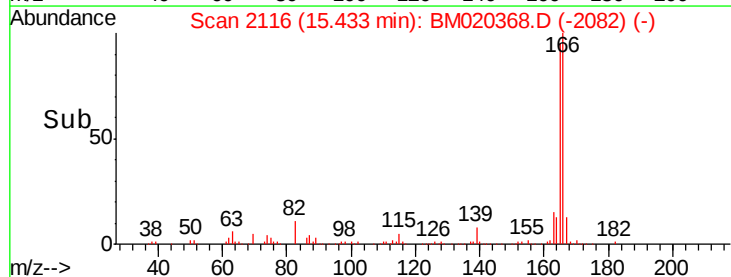
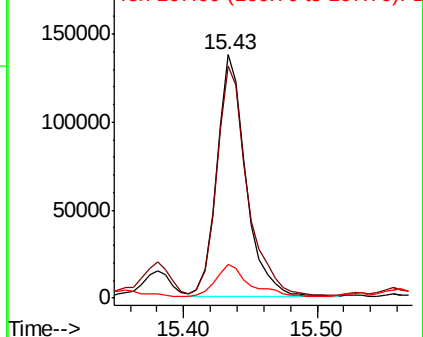
167 13.7 11.1 16.7

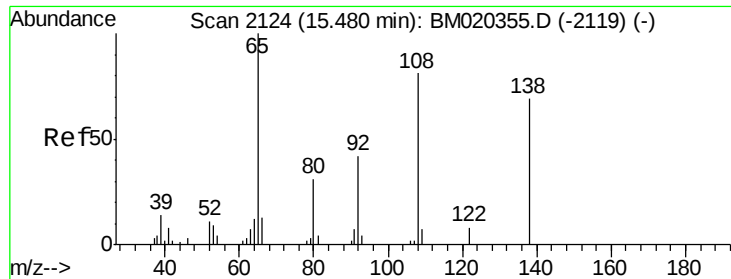


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

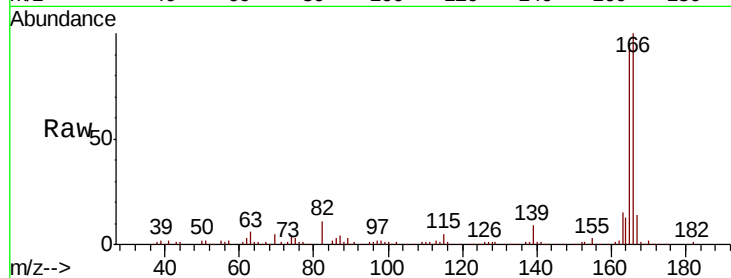




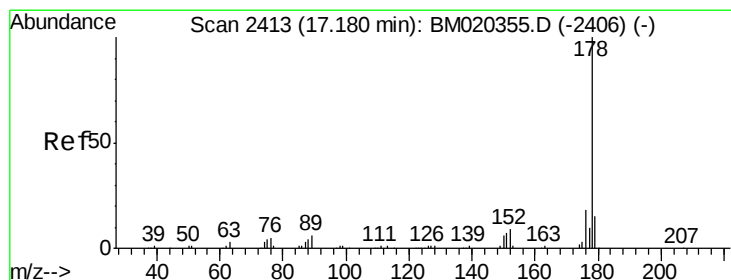
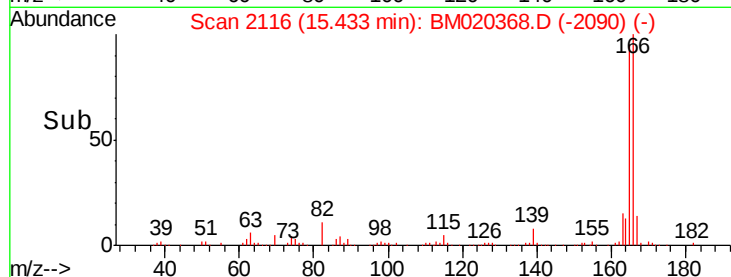
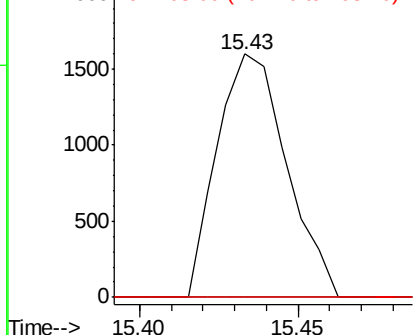
#60
4-Nitroaniline
Concen: 1.268 ng/ul
RT: 15.43 min Scan# 2116
Delta R.T. -0.05 min
Lab File: BM020368.D
Acq: 17 May 2019 17:02

Instrument :
BNA_M
ClientSampleId :
GAJ76DL

Tgt Ion:138 Resp: 2430
Ion Ratio Lower Upper
138 100
92 0.0 52.2 78.4#
108 0.0 86.6 130.0#

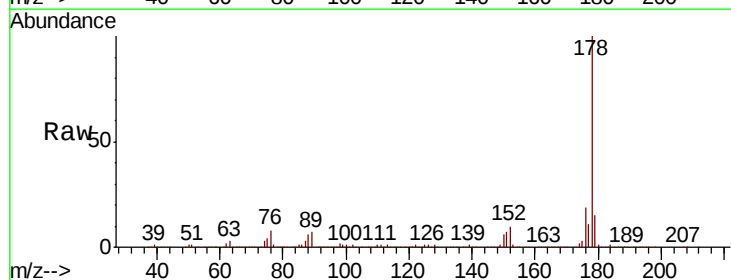


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BM0
Ion 108.00 (107.70 to 108.70): E

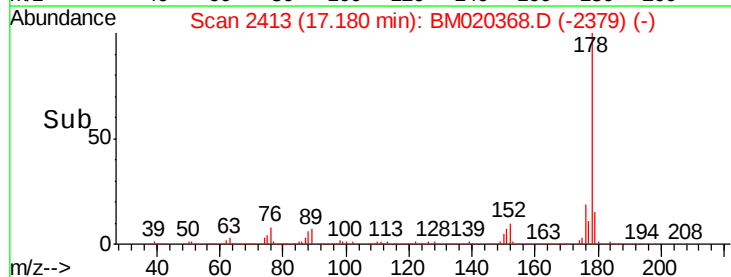
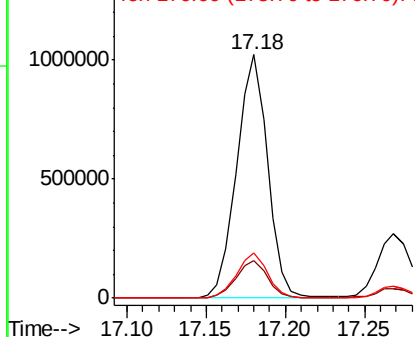


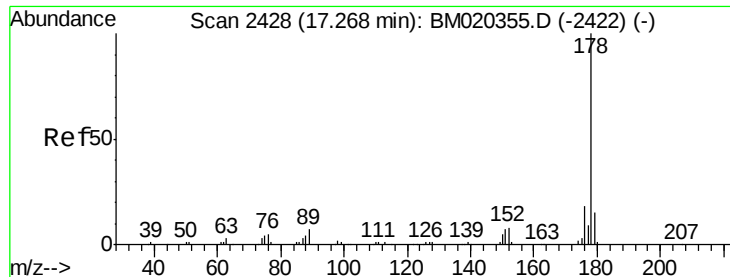
#69
Phenanthrene
Concen: 73.885 ng/ul
RT: 17.18 min Scan# 2413
Delta R.T. 0.00 min
Lab File: BM020368.D
Acq: 17 May 2019 17:02

Tgt Ion:178 Resp: 1384554
Ion Ratio Lower Upper
178 100
179 15.4 11.9 17.9
176 18.6 14.6 22.0



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

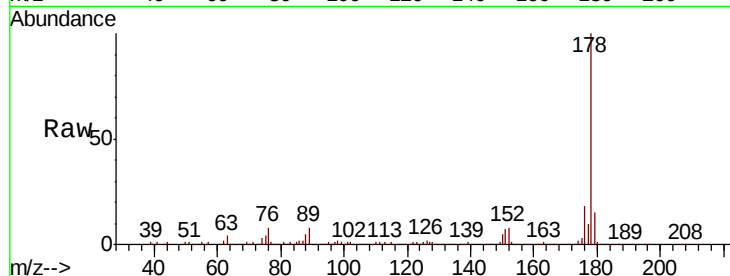




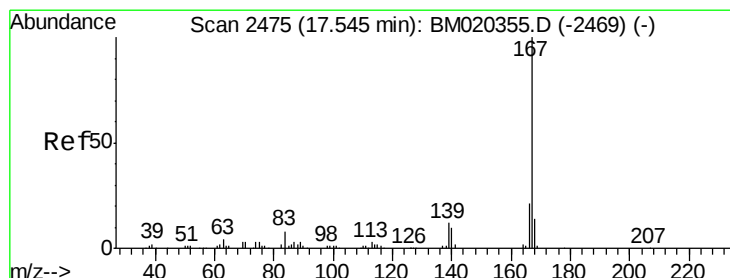
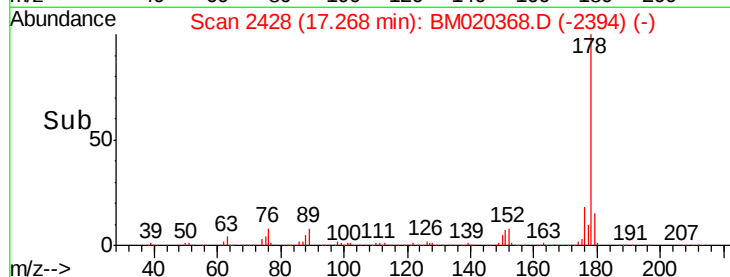
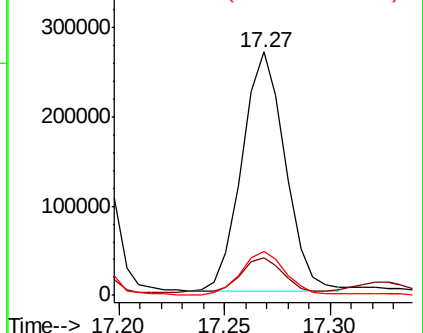
#71
 Anthracene
 Concen: 19.898 ng/ul
 RT: 17.27 min Scan# 2428
 Delta R.T. 0.00 min
 Lab File: BM020368.D
 Acq: 17 May 2019 17:02

Instrument :
 BNA_M
 ClientSampleId :
 GAJ76DL

Tgt Ion:178 Resp: 379300
 Ion Ratio Lower Upper
 178 100
 179 15.4 12.4 18.6
 176 17.8 14.4 21.6

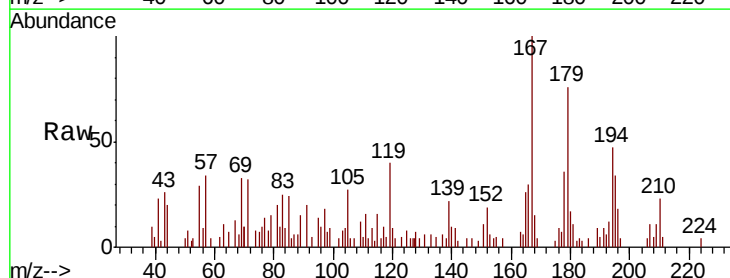


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E

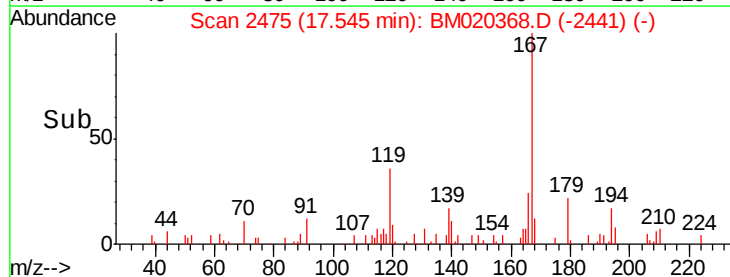
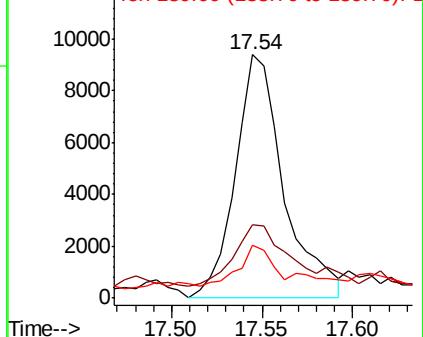


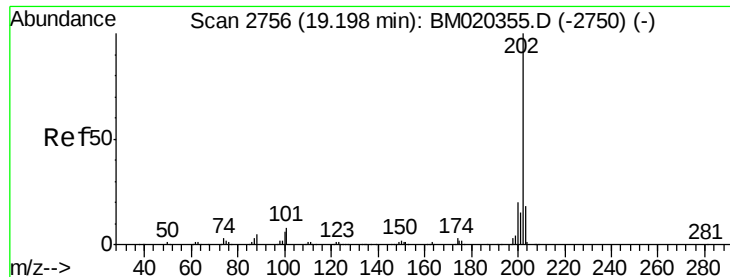
#74
 Carbazole
 Concen: 1.083 ng/ul
 RT: 17.54 min Scan# 2475
 Delta R.T. 0.00 min
 Lab File: BM020368.D
 Acq: 17 May 2019 17:02

Tgt Ion:167 Resp: 17527
 Ion Ratio Lower Upper
 167 100
 166 30.4 16.6 24.8#
 139 21.6 9.8 14.8#



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

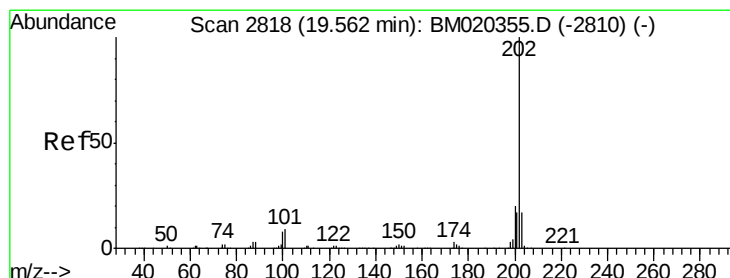
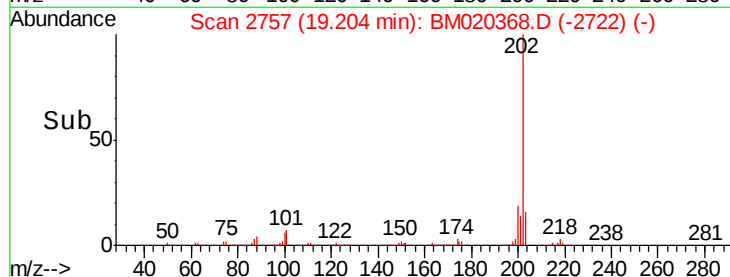
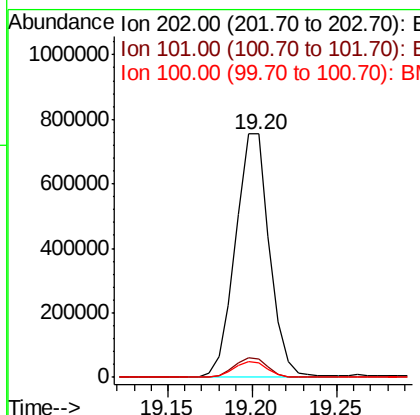
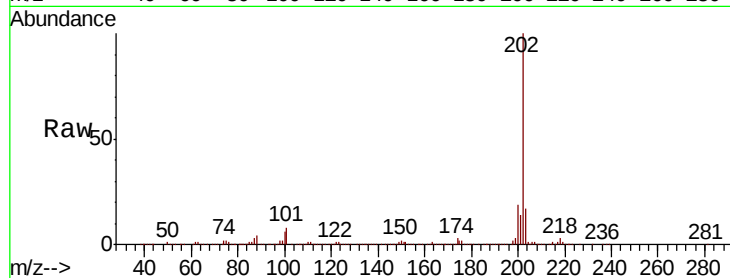




#76
 Fluoranthene
 Concen: 44.719 ng/ul
 RT: 19.20 min Scan# 2757
 Delta R.T. 0.01 min
 Lab File: BM020368.D
 Acq: 17 May 2019 17:02

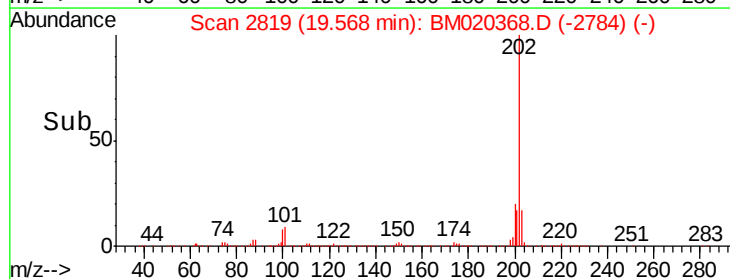
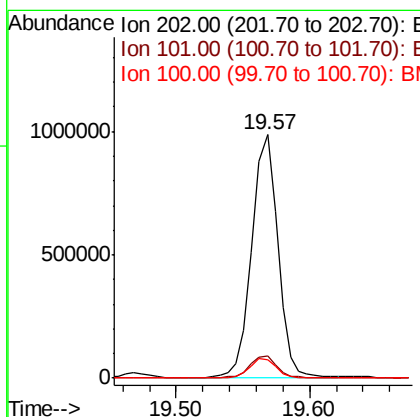
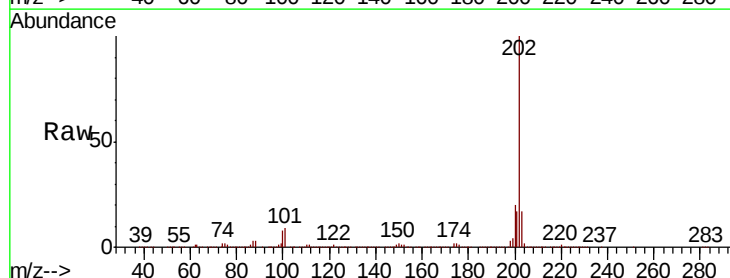
Instrument :
 BNA_M
 ClientSampleId :
 GAJ76DL

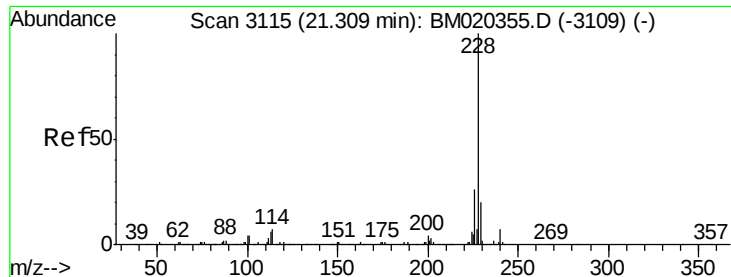
Tgt Ion:202 Resp: 1058559
 Ion Ratio Lower Upper
 202 100
 101 7.6 6.4 9.6
 100 5.9 5.2 7.8



#79
 Pyrene
 Concen: 56.265 ng/ul
 RT: 19.57 min Scan# 2819
 Delta R.T. 0.01 min
 Lab File: BM020368.D
 Acq: 17 May 2019 17:02

Tgt Ion:202 Resp: 1327786
 Ion Ratio Lower Upper
 202 100
 101 9.0 7.1 10.7
 100 7.5 5.9 8.9





#82

Benzo(a)anthracene

Concen: 22.685 ng/ul

RT: 21.32 min Scan# 3116

Delta R.T. 0.01 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

Instrument :

BNA_M

ClientSampleId :

GAJ76DL

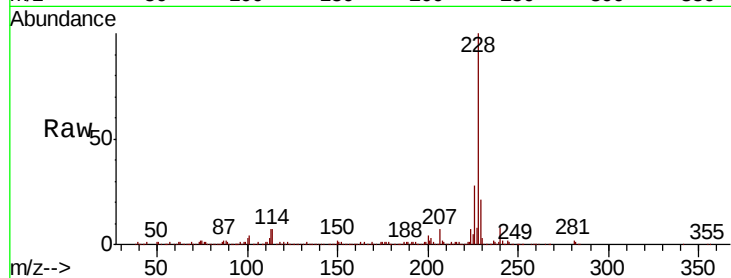
Tgt Ion:228 Resp: 536826

Ion Ratio Lower Upper

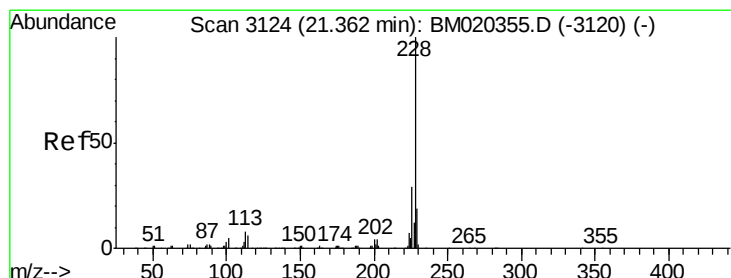
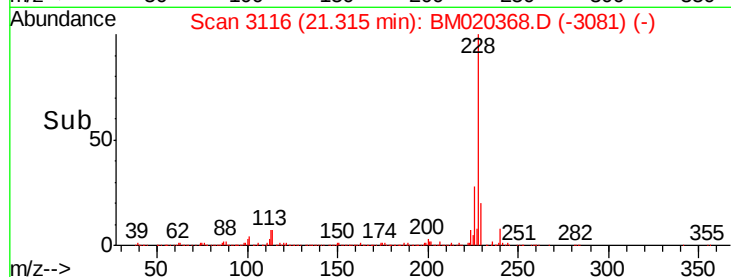
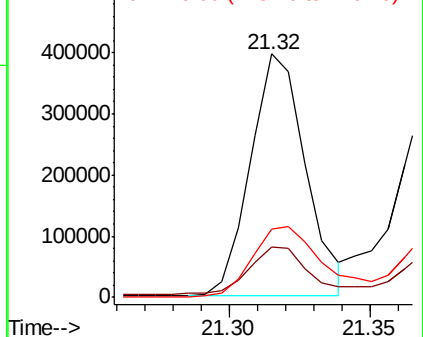
228 100

229 20.8 15.8 23.8

226 28.2 20.6 30.8



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



#84

Chrysene

Concen: 20.275 ng/ul

RT: 21.37 min Scan# 3125

Delta R.T. 0.01 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

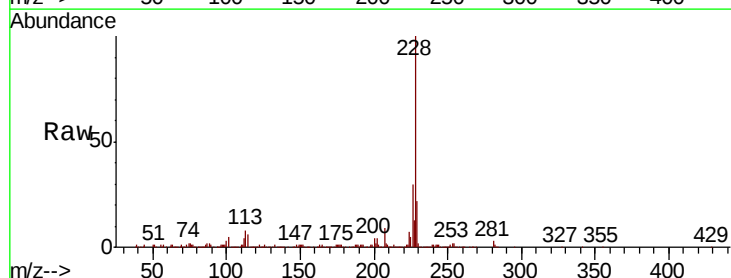
Tgt Ion:228 Resp: 458501

Ion Ratio Lower Upper

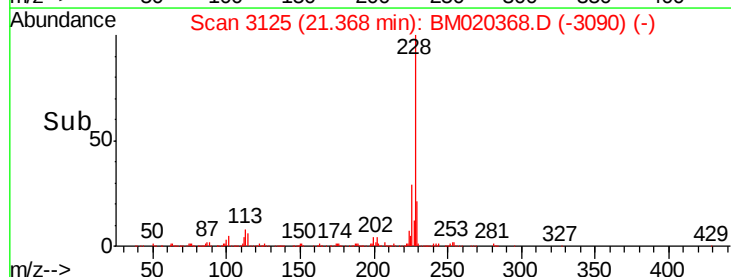
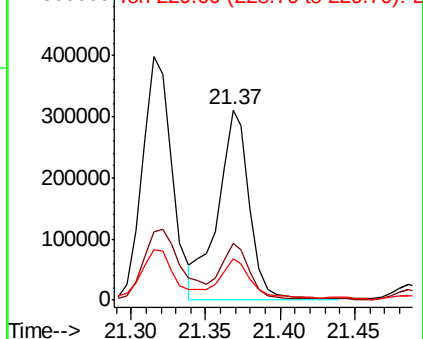
228 100

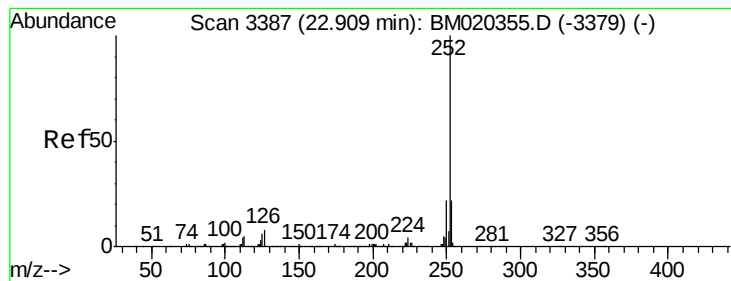
226 29.7 22.2 33.4

229 22.1 15.4 23.2



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





#87

Benzo(b)fluoranthene

Concen: 15.618 ng/ul

RT: 22.92 min Scan# 3389

Delta R.T. 0.01 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

Instrument :

BNA_M

ClientSampleId :

GAJ76DL

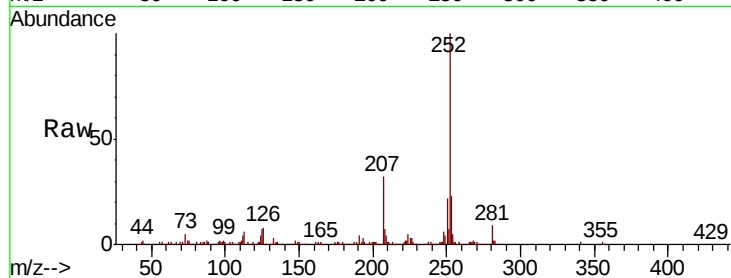
Tgt Ion:252 Resp: 393147

Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.6

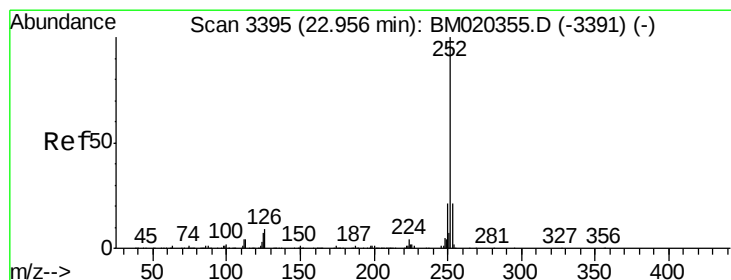
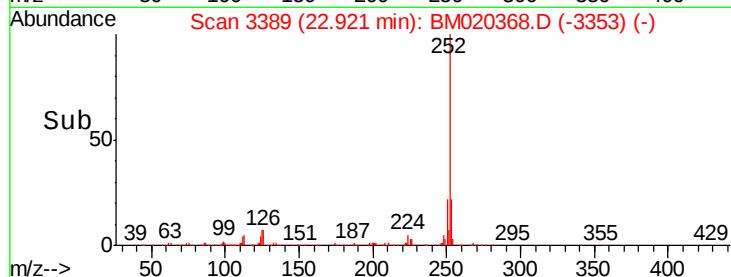
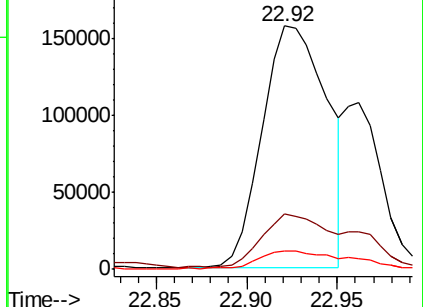
125 7.5 5.0 7.4#



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



#88

Benzo(k)fluoranthene

Concen: 15.901 ng/ul

RT: 22.92 min Scan# 3389

Delta R.T. -0.04 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

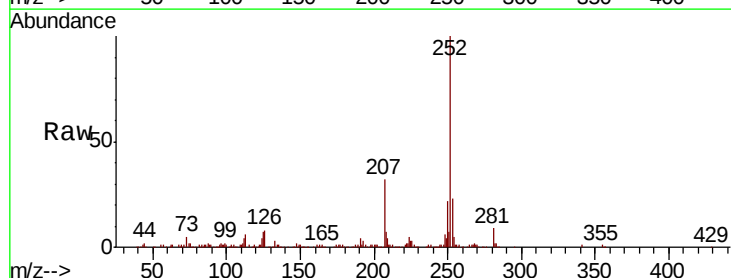
Tgt Ion:252 Resp: 393147

Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

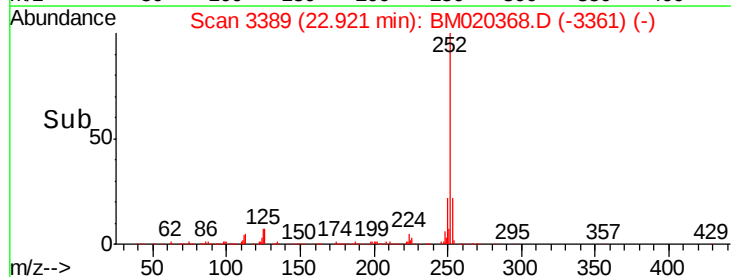
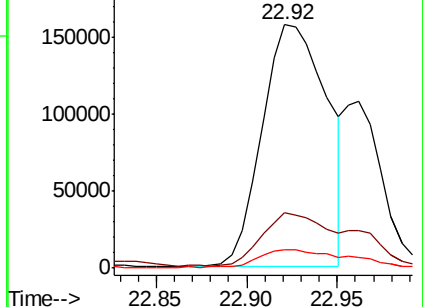
125 7.5 5.0 7.6

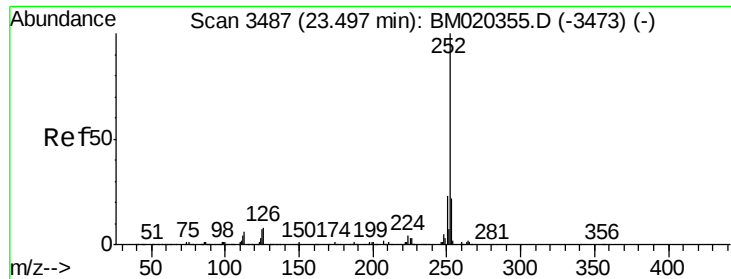


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 17.047 ng/u1

RT: 23.51 min Scan# 3489

Delta R.T. 0.01 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

Instrument :

BNA_M

ClientSampleId :

GAJ76DL

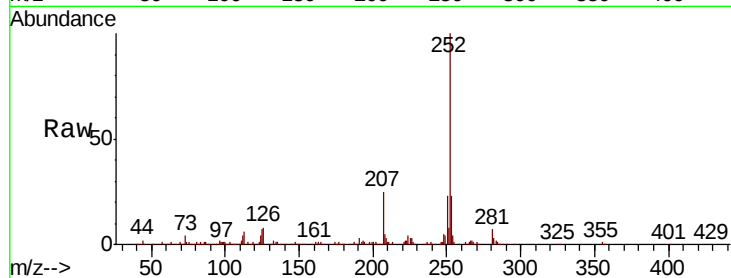
Tgt Ion:252 Resp: 403819

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

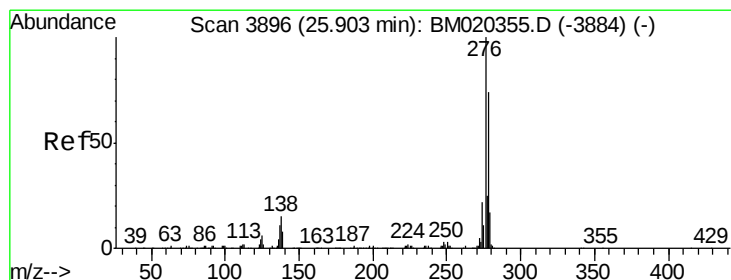
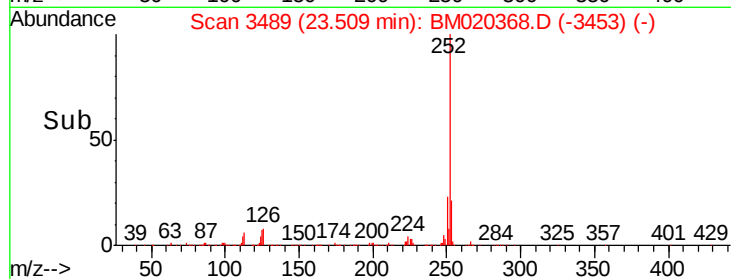
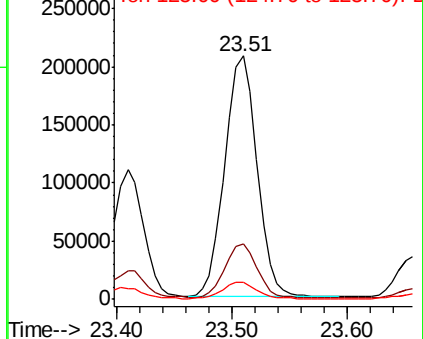
125 7.0 5.4 8.2



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



#91

Indeno(1,2,3-cd)pyrene

Concen: 6.359 ng/u1

RT: 25.90 min Scan# 3896

Delta R.T. 0.00 min

Lab File: BM020368.D

Acq: 17 May 2019 17:02

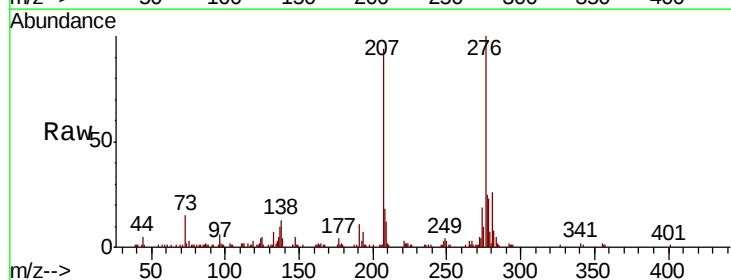
Tgt Ion:276 Resp: 171642

Ion Ratio Lower Upper

276 100

138 13.4 12.3 18.5

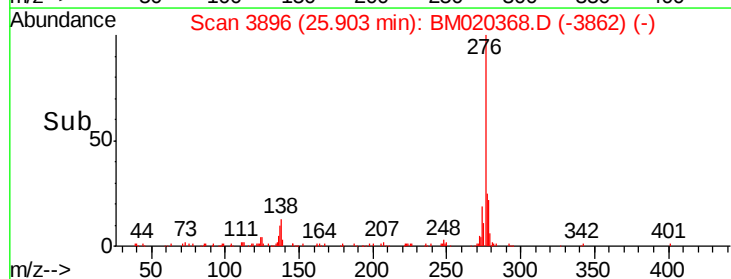
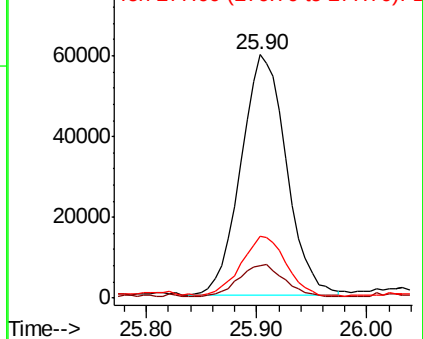
277 25.5 20.0 30.0

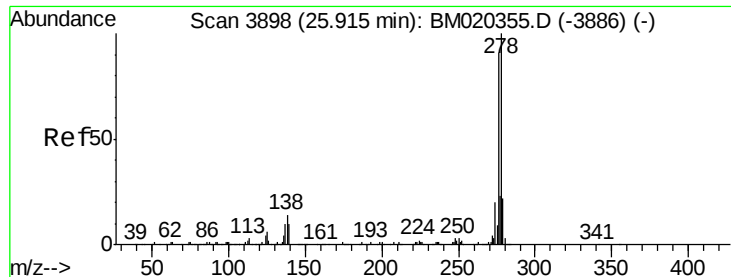


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

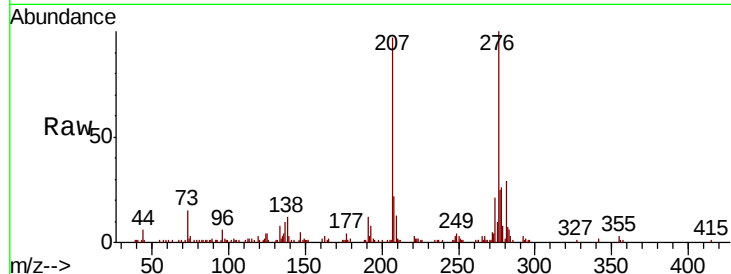




#92
Dibenzo(a,h)anthracene
Concen: 2.202 ng/ul
RT: 25.91 min Scan# 3898
Delta R.T. 0.00 min
Lab File: BM020368.D
Acq: 17 May 2019 17:02

Instrument :
BNA_M
ClientSampleId :
GAJ76DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.5	8.1	12.1
279	30.6	18.7	28.1

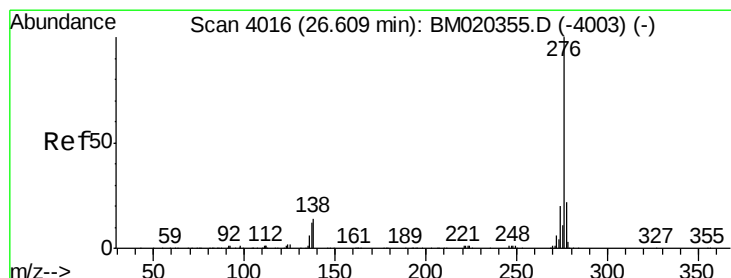
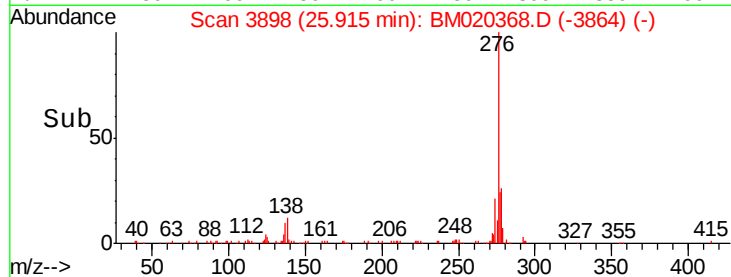
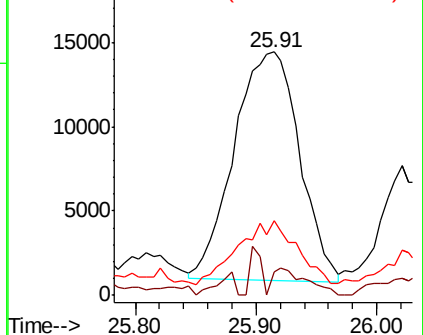


Abundance

Ion 278.00 (277.70 to 278.70): E

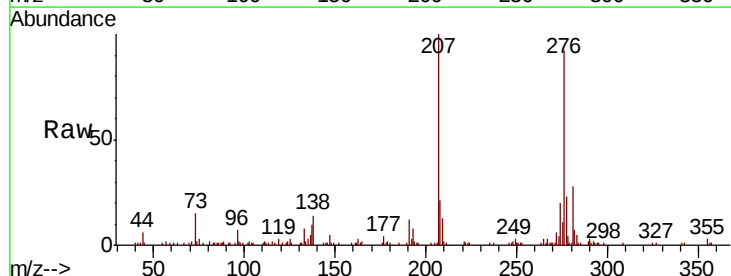
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#93
Benzo(g,h,i)perylene
Concen: 7.074 ng/ul
RT: 26.61 min Scan# 4017
Delta R.T. 0.01 min
Lab File: BM020368.D
Acq: 17 May 2019 17:02

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.1	10.0	15.0
277	25.1	18.2	27.4



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

