

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053019\
 Data File : BM020600.D
 Acq On : 29 May 2019 15:32
 Operator : JU/SJ
 Sample : K3004-01DL 25X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835DL

Quant Time: May 29 16:13:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM052419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 14:38:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	43418	20.00	ng	0.00
21) Naphthalene-d8	10.42	136	179235	20.00	ng	0.00
39) Acenaphthene-d10	14.29	164	131819	20.00	ng	0.00
64) Phenanthrene-d10	17.04	188	347326	20.00	ng	0.00
76) Chrysene-d12	21.24	240	411926	20.00	ng	0.00
87) Perylene-d12	23.47	264	481244	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.22	112	5359	2.42	ng	0.01
7) Phenol-d6	6.83	99	2095	0.63	ng	0.03
23) Nitrobenzene-d5	8.83	82	1016	0.24	ng	0.03
42) 2,4,6-Tribromophenol	15.79	330	5388	2.04	ng	0.00
45) 2-Fluorobiphenyl	12.90	172	16596	1.58	ng	0.00
79) Terphenyl-d14	19.68	244	42098	1.85	ng	0.00

Target Compounds

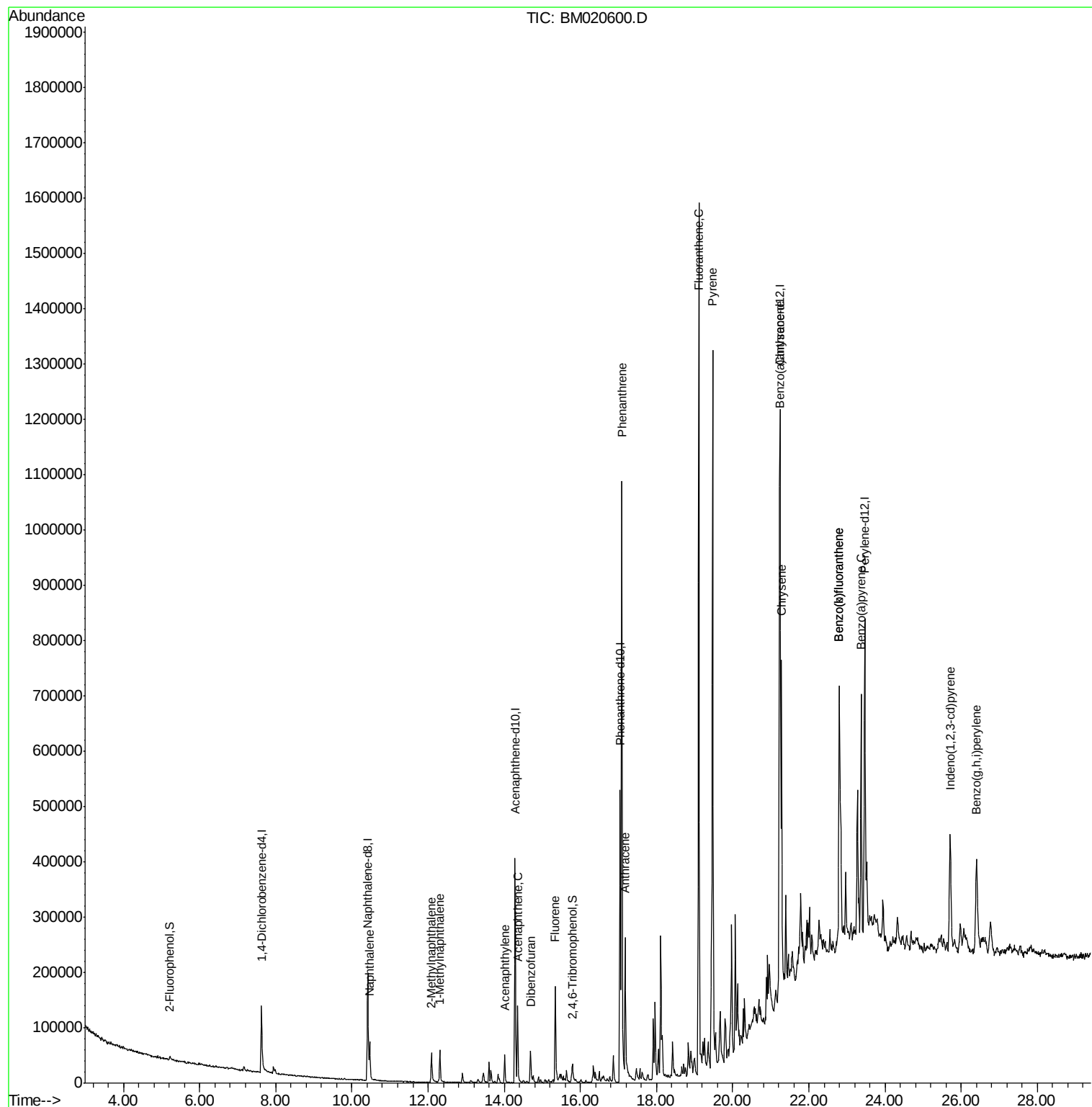
						Qvalue
31) Naphthalene	10.46	128	55181	5.963	ng	99
37) 2-Methylnaphthalene	12.09	142	32441	4.588	ng	100
38) 1-Methylnaphthalene	12.31	142	31683	4.625	ng	96
49) Acenaphthylene	14.01	152	34146	2.609	ng	95
52) Acenaphthene	14.35	154	48391	6.136	ng	94
55) Dibenzofuran	14.69	168	48132	3.527	ng	99
58) Fluorene	15.34	166	88234	7.783	ng	99
71) Phenanthrene	17.09	178	702075	37.209	ng	99
72) Anthracene	17.17	178	184001	10.056	ng	99
75) Fluoranthene	19.11	202	1039732	39.626	ng	100
78) Pyrene	19.47	202	887372	34.313	ng	100
81) Benzo(a)anthracene	21.23	228	454335	15.936	ng	98
83) Chrysene	21.28	228	367192	13.329	ng	96
86) Indeno(1,2,3-cd)pyrene	25.71	276	238692	7.166	ng	96
88) Benzo(b)fluoranthene	22.80	252	658856	20.917	ng	98
89) Benzo(k)fluoranthene	22.80	252	665350	21.765	ng	98
90) Benzo(a)pyrene	23.37	252	378049	13.043	ng	99
92) Benzo(g,h,i)perylene	26.40	276	227610	8.276	ng	96

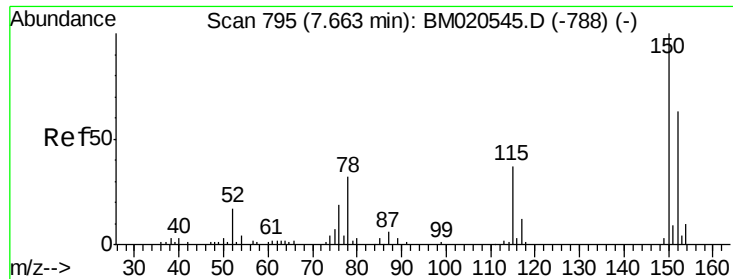
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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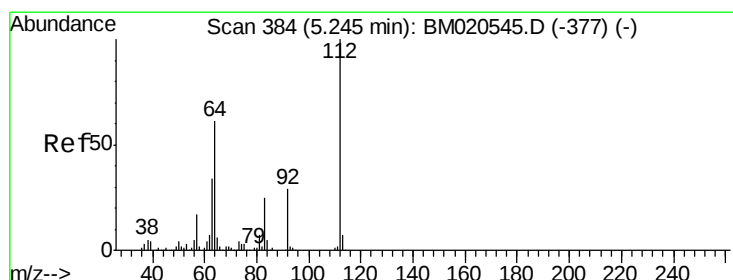
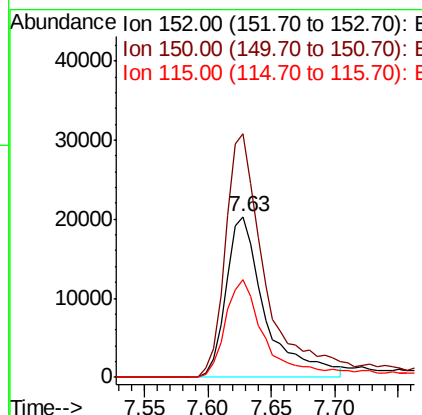
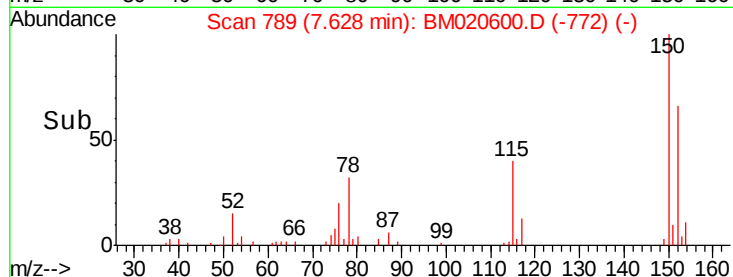
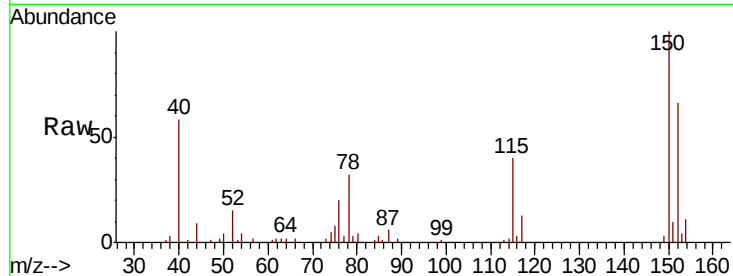


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.63 min Scan# 789
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Instrument :
BNA_M
ClientSampleId :
CHRT-26835DL

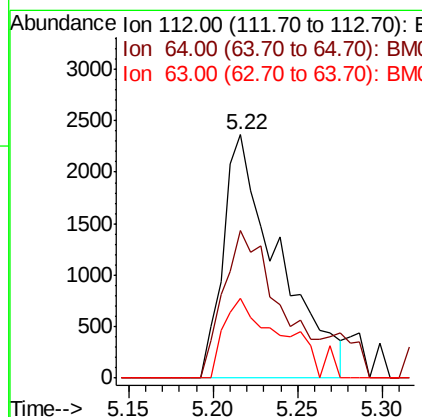
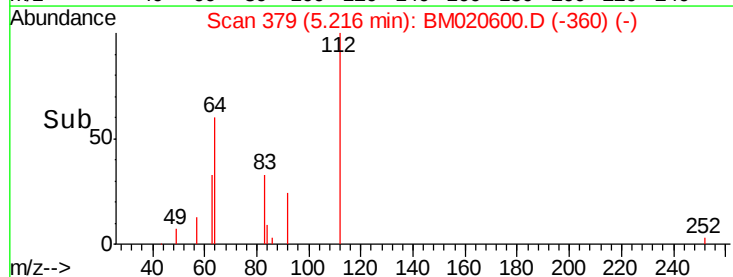
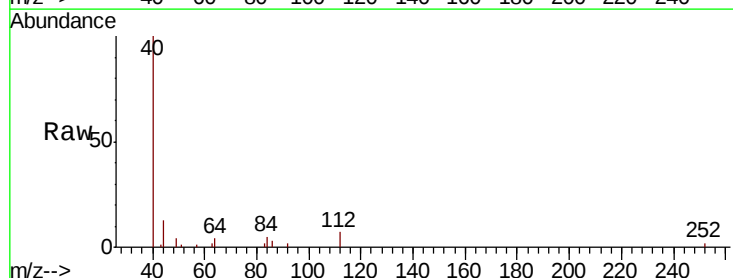
Tot Ion:152 Resp: 43418
Ion Ratio Lower Upper
152 100
150 151.7 118.5 177.7
115 61.2 45.3 67.9

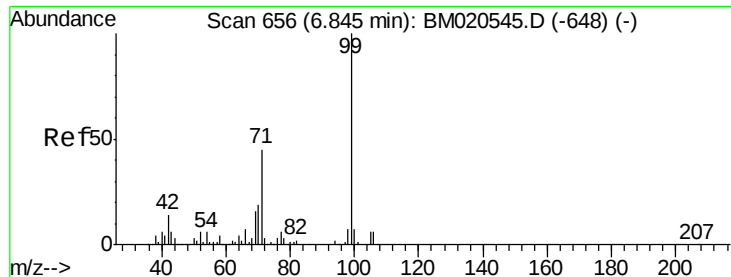


#5

2-Fluorophenol
Concen: 2.421 ng
RT: 5.22 min Scan# 379
Delta R.T. 0.01 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Tgt Ion:112 Resp: 5359
Ion Ratio Lower Upper
112 100
64 60.4 49.2 73.8
63 32.5 28.0 42.0





#7

Phenol-d6

Concen: 0.627 ng

RT: 6.83 min Scan# 654

Delta R.T. 0.03 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

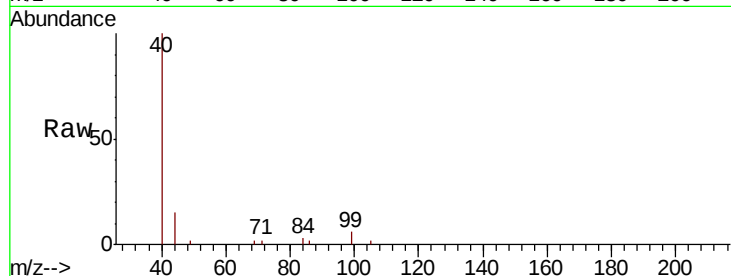
Tot Ion: 99 Resp: 2095

Ion Ratio Lower Upper

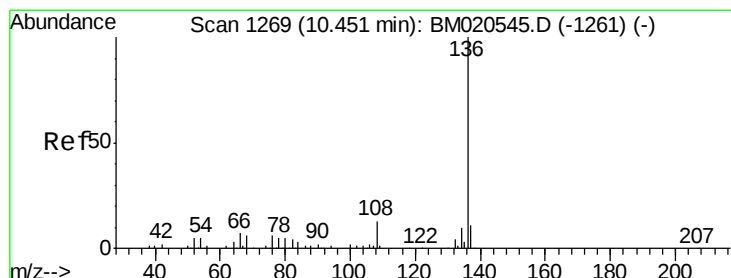
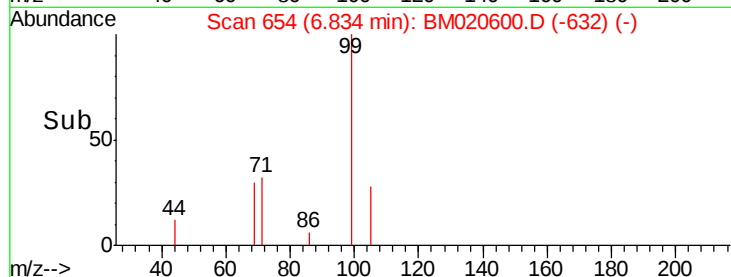
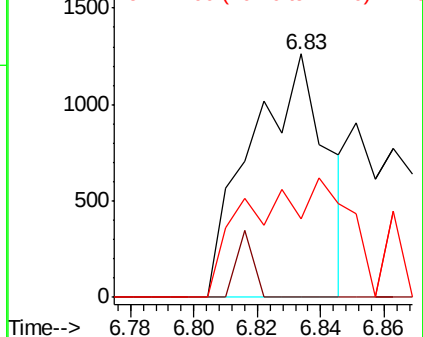
99 100

42 0.0 11.4 17.2#

71 32.2 38.3 57.5#



Abundance Ion 99.00 (98.70 to 99.70): BM0
Ion 42.00 (41.70 to 42.70): BM0
Ion 71.00 (70.70 to 71.70): BM0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.42 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Tgt Ion: 136 Resp: 179235

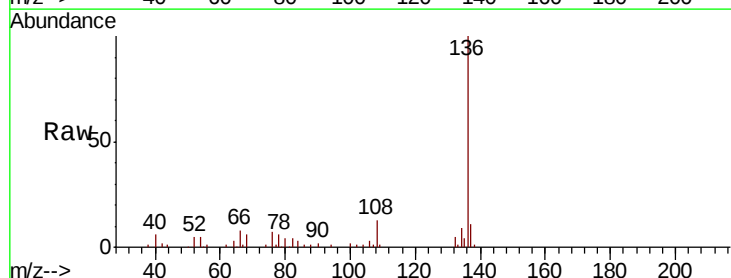
Ion Ratio Lower Upper

136 100

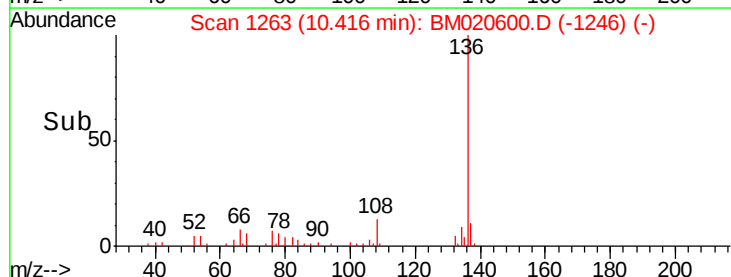
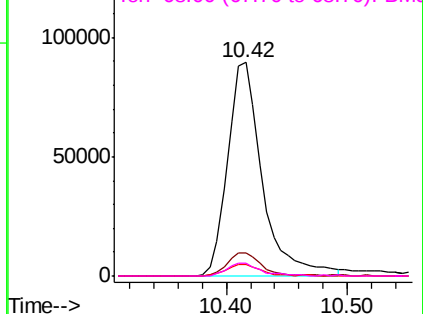
137 10.6 8.7 13.1

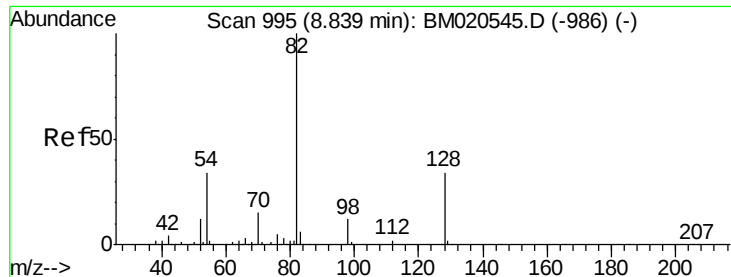
54 5.5 3.8 5.6

68 5.8 4.3 6.5



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): BM0
Ion 68.00 (67.70 to 68.70): BM0

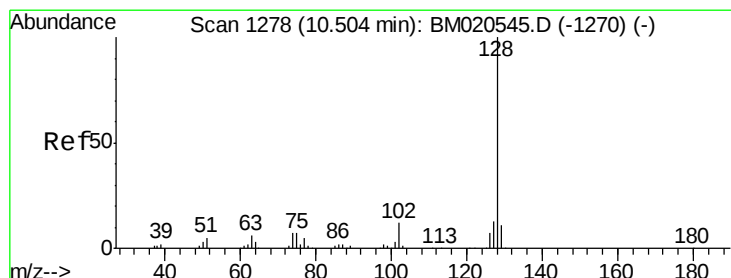
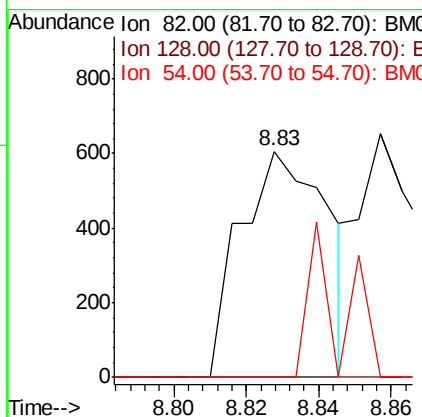
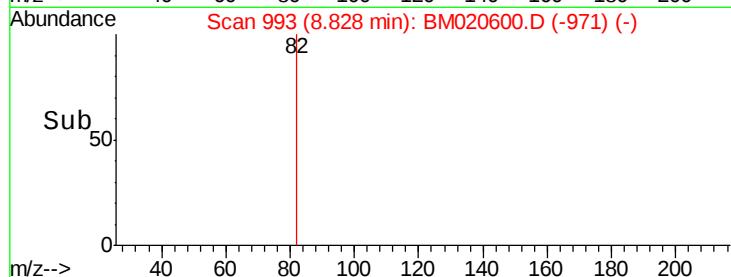
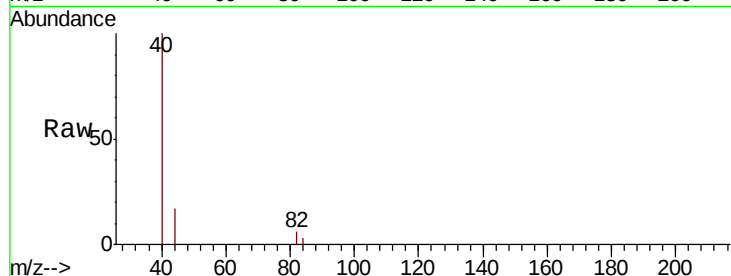




#23
Nitrobenzene-d5
Concen: 0.238 ng
RT: 8.83 min Scan# 993
Delta R.T. 0.03 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

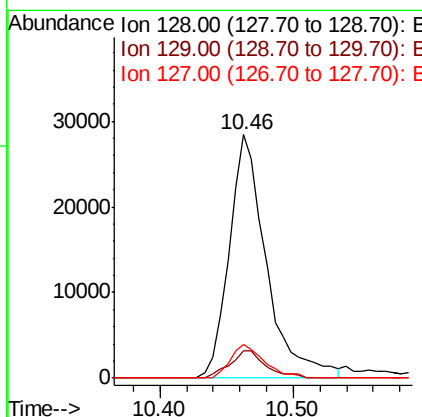
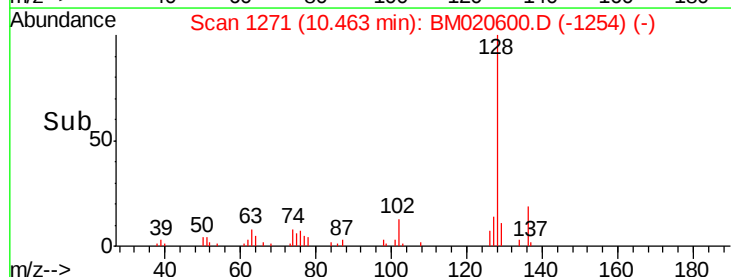
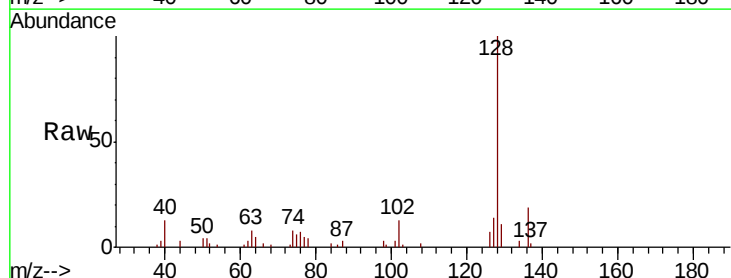
Instrument :
BNA_M
ClientSampleId :
CHRT-26835DL

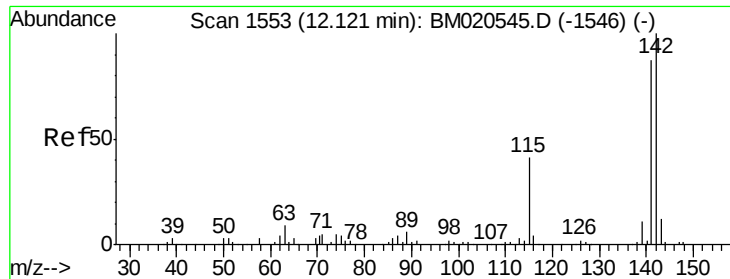
Tot Ion	82	Resp	1016
Ion Ratio	Lower	Upper	
82	100		
128	0.0	25.4	38.2#
54	0.0	28.0	42.0#



#31
Naphthalene
Concen: 5.963 ng
RT: 10.46 min Scan# 1271
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Tgt Ion	128	Resp	55181
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
128	100		
129	11.0	8.6	13.0
127	13.7	10.3	15.5

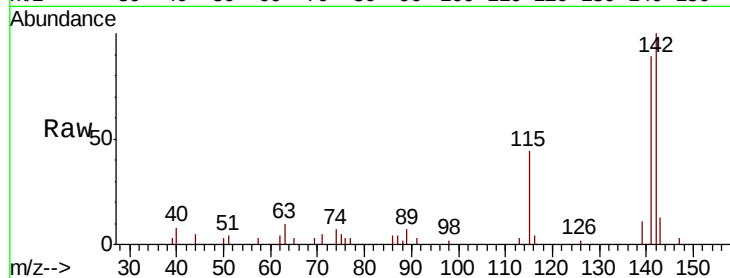




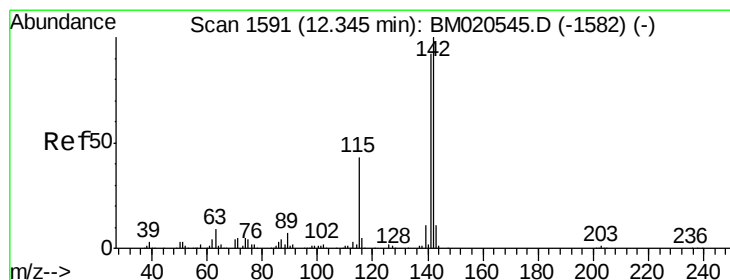
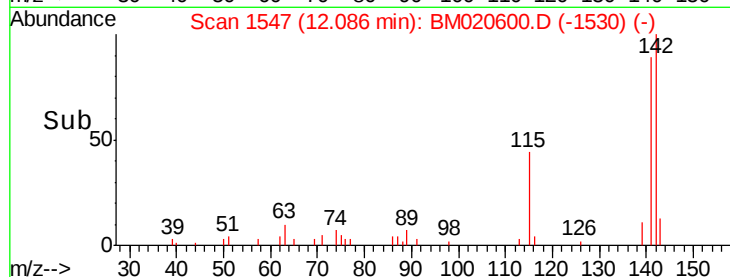
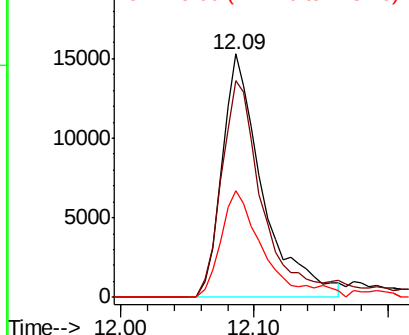
#37
2-Methylnaphthalene
Concen: 4.588 ng
RT: 12.09 min Scan# 1547
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Instrument :
BNA_M
ClientSampleId :
CHRT-26835DL

Tot Ion:142 Resp: 32441
Ion Ratio Lower Upper
142 100
141 89.0 71.7 107.5
115 43.7 34.9 52.3

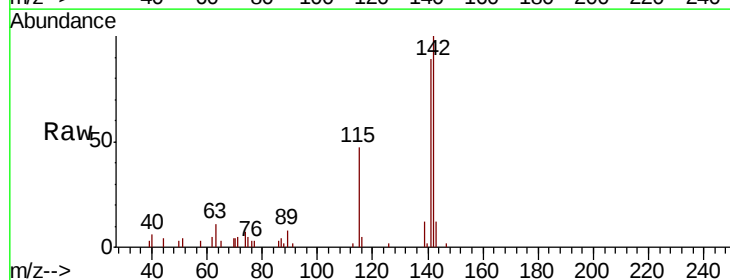


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

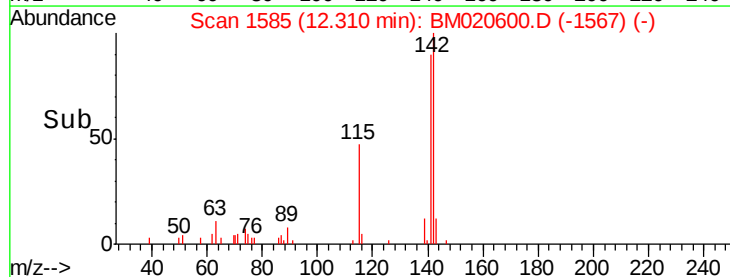
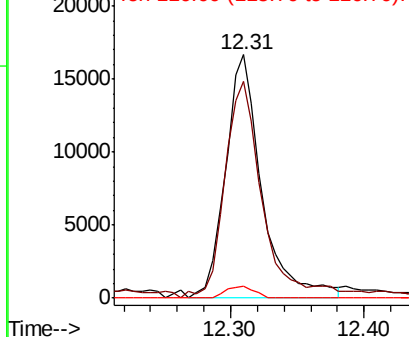


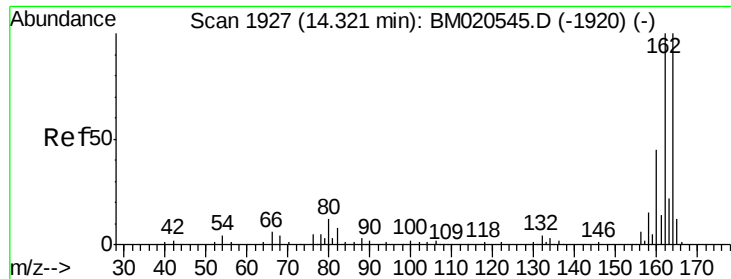
#38
1-Methylnaphthalene
Concen: 4.625 ng
RT: 12.31 min Scan# 1585
Delta R.T. 0.01 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Tgt Ion:142 Resp: 31683
Ion Ratio Lower Upper
142 100
141 89.1 74.5 111.7
116 5.0 3.8 5.6



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.29 min Scan# 1921

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

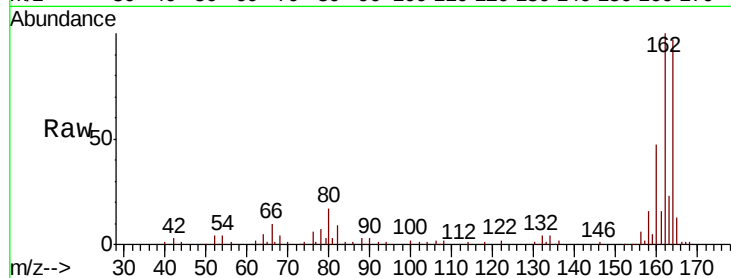
Tot Ion:164 Resp: 131819

Ion Ratio Lower Upper

164 100

162 102.7 86.0 129.0

160 48.4 37.5 56.3

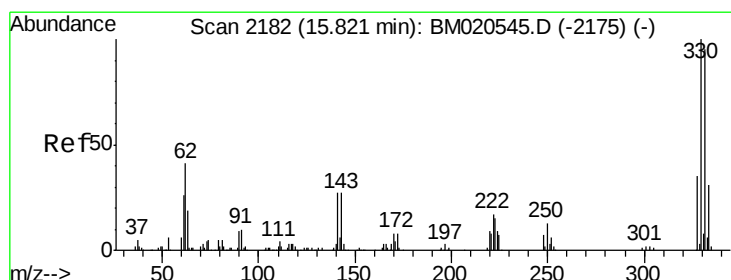
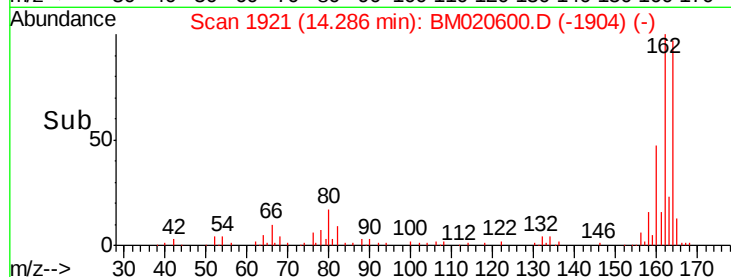
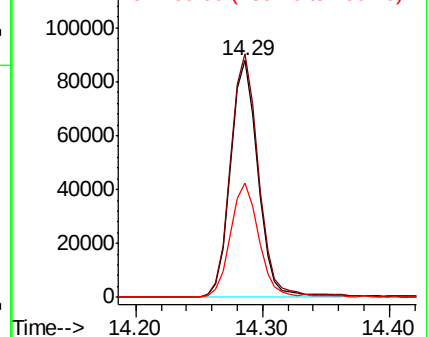


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 2.040 ng

RT: 15.79 min Scan# 2177

Delta R.T. 0.01 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

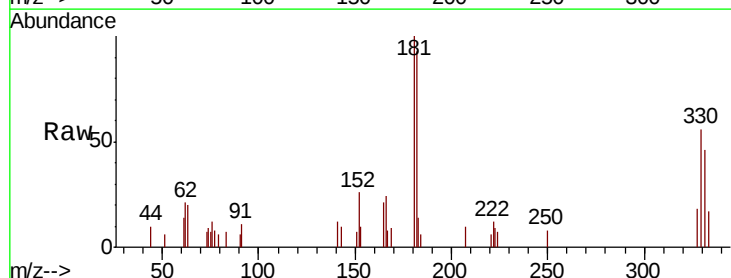
Tgt Ion:330 Resp: 5388

Ion Ratio Lower Upper

330 100

332 85.4 78.2 117.2

141 25.6 22.3 33.5

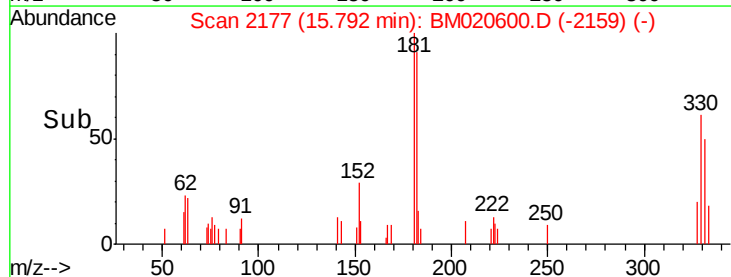
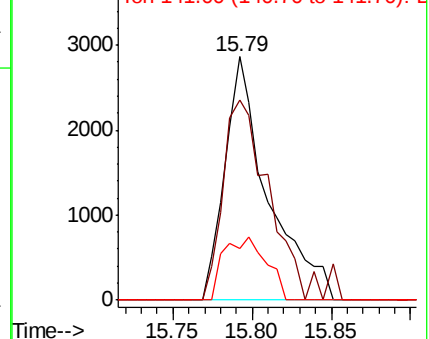


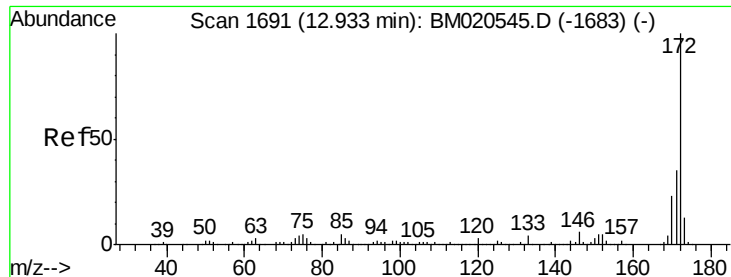
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

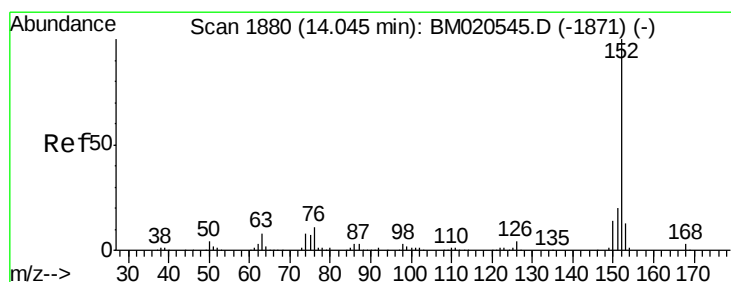
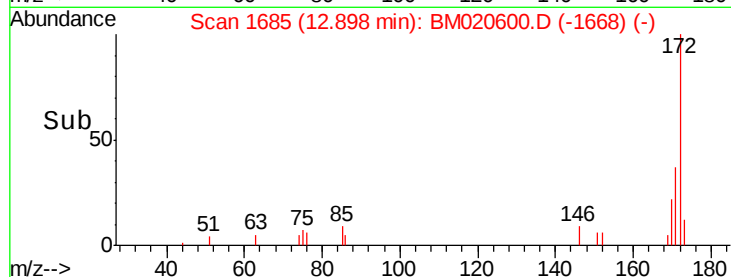
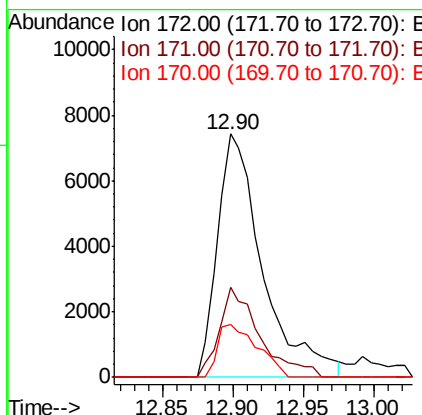
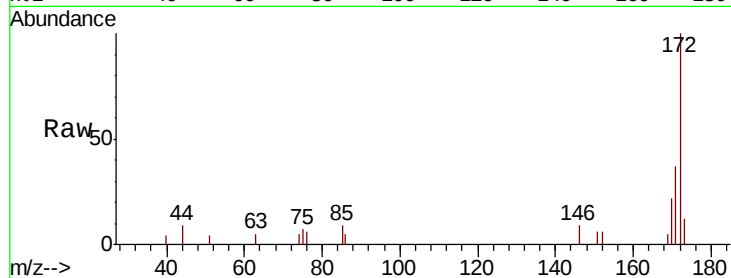




#45
2-Fluorobiphenyl
Concen: 1.580 ng
RT: 12.90 min Scan# 1685
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

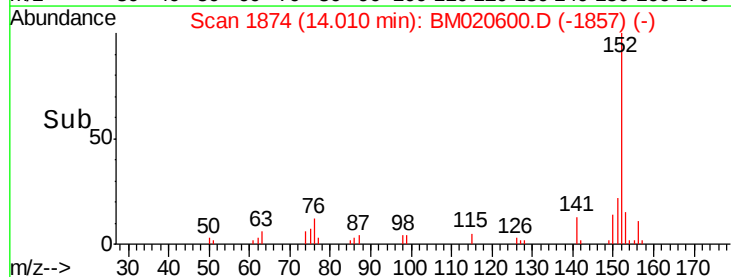
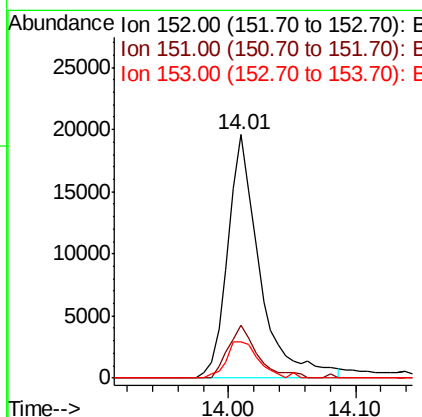
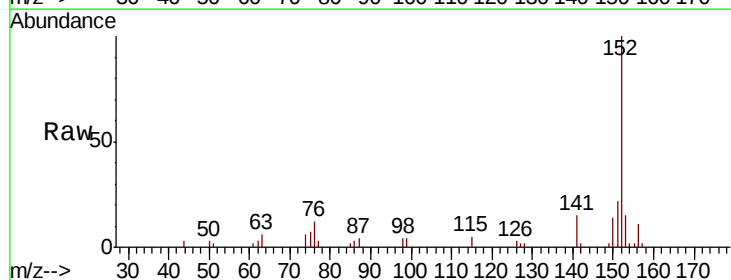
Instrument :
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CHRT-26835DL

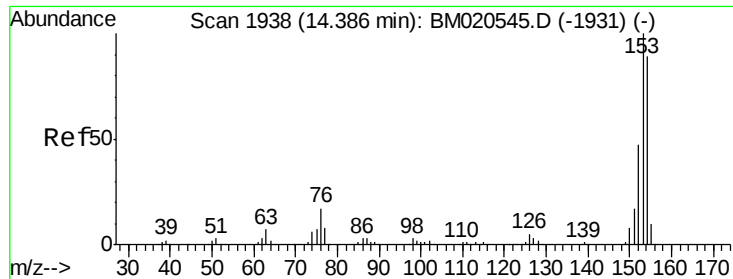
Tot Ion:172 Resp: 16596
Ion Ratio Lower Upper
172 100
171 37.0 27.9 41.9
170 22.0 18.4 27.6



#49
Acenaphthylene
Concen: 2.609 ng
RT: 14.01 min Scan# 1874
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Tgt Ion:152 Resp: 34146
Ion Ratio Lower Upper
152 100
151 21.6 15.5 23.3
153 15.0 10.4 15.6





#52

Acenaphthene

Concen: 6.136 ng

RT: 14.35 min Scan# 1932

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

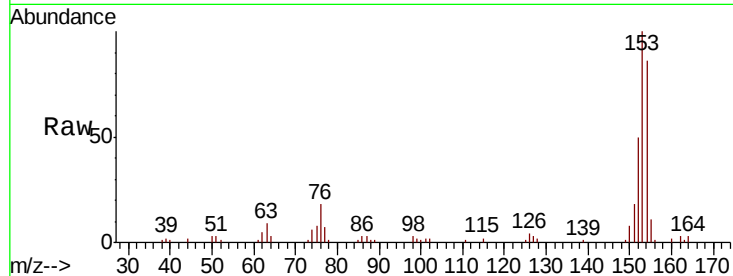
Tot Ion:154 Resp: 48391

Ion Ratio Lower Upper

154 100

153 116.1 88.2 132.4

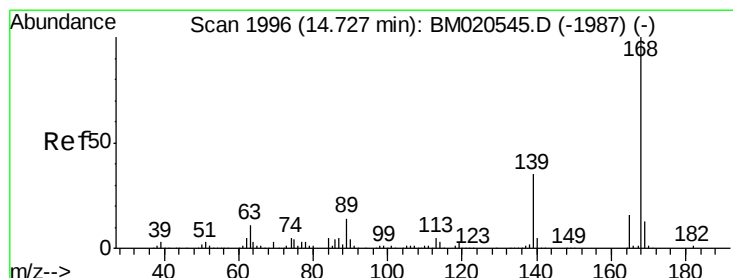
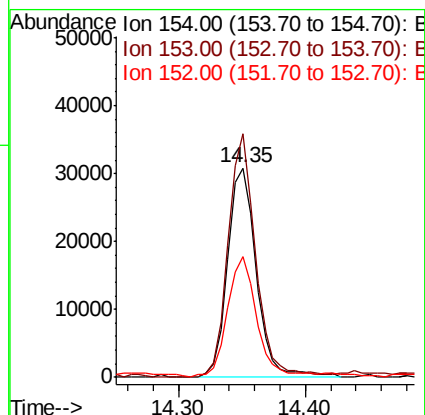
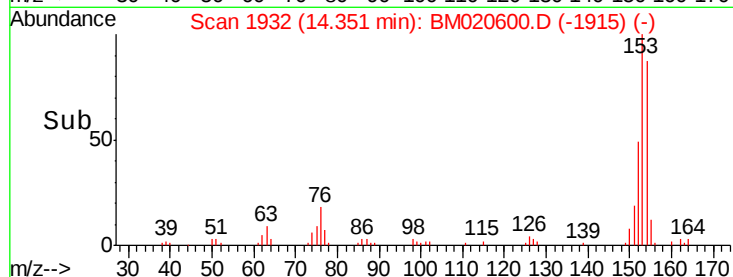
152 57.8 42.6 63.8



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



#55

Dibenzofuran

Concen: 3.527 ng

RT: 14.69 min Scan# 1990

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

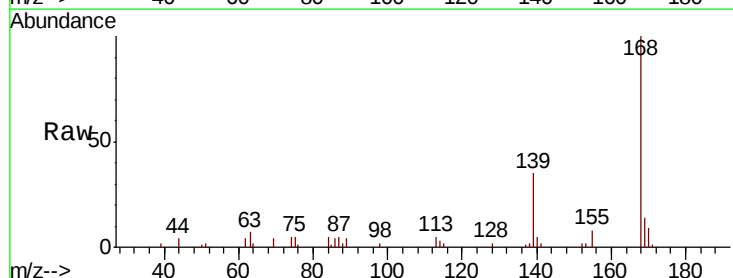
Tgt Ion:168 Resp: 48132

Ion Ratio Lower Upper

168 100

139 35.4 29.0 43.6

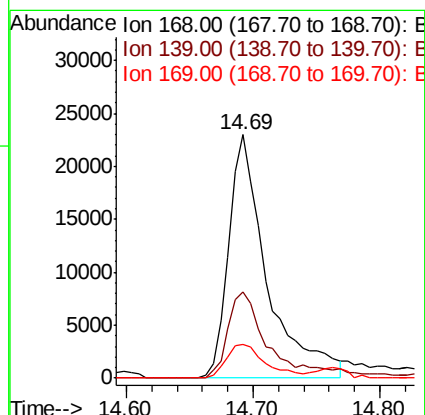
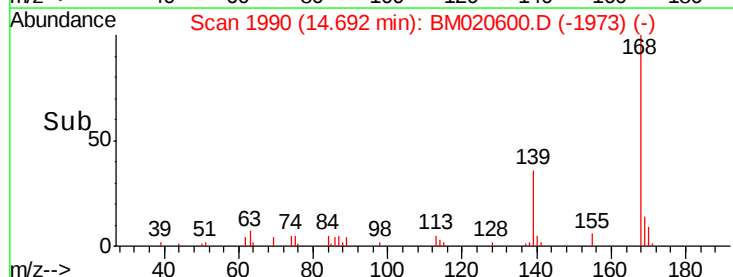
169 13.8 10.6 16.0

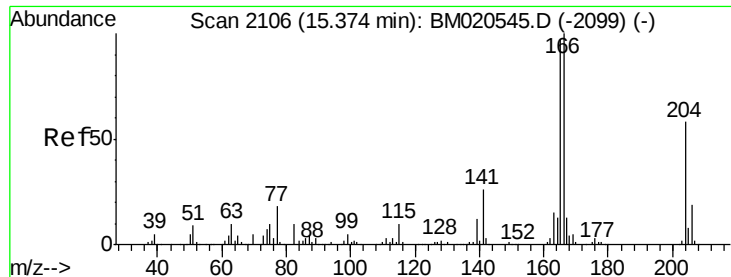


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

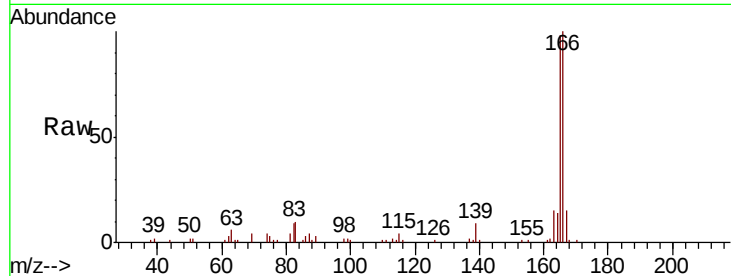




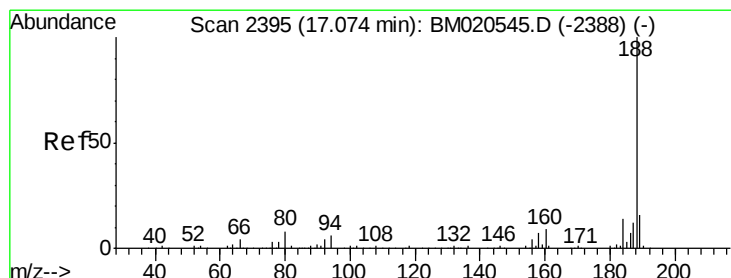
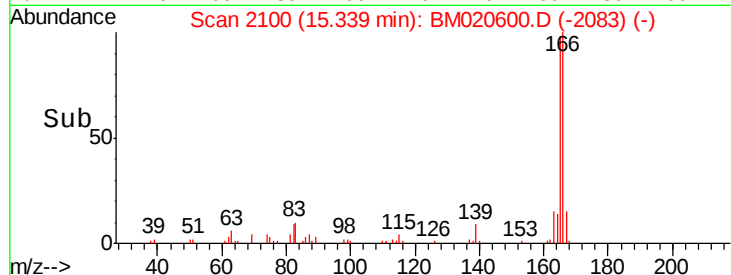
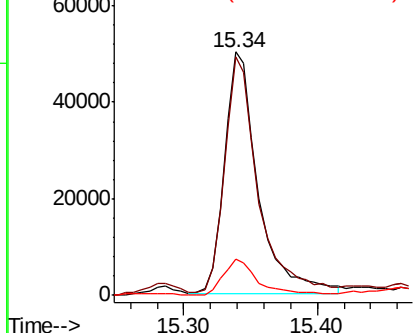
#58
 Fluorene
 Concen: 7.783 ng
 RT: 15.34 min Scan# 2100
 Delta R.T. -0.00 min
 Lab File: BM020600.D
 Acq: 29 May 2019 15:32

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835DL

Tot Ion:166 Resp: 88234
 Ion Ratio Lower Upper
 166 100
 165 98.0 77.6 116.4
 167 15.0 11.4 17.0

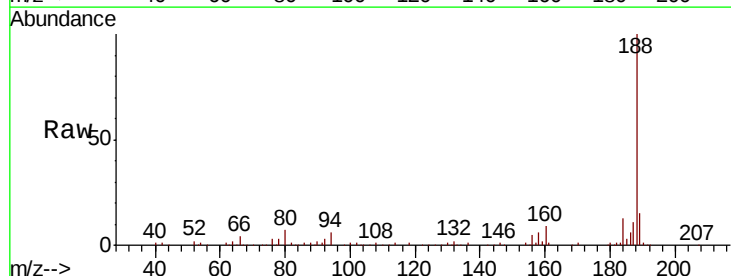


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

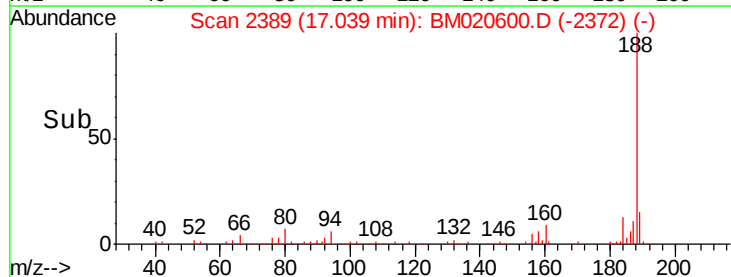
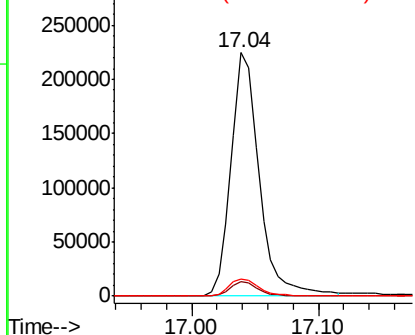


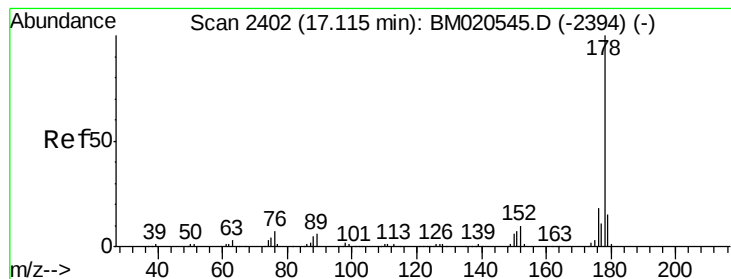
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.04 min Scan# 2389
 Delta R.T. -0.00 min
 Lab File: BM020600.D
 Acq: 29 May 2019 15:32

Tgt Ion:188 Resp: 347326
 Ion Ratio Lower Upper
 188 100
 94 5.8 4.6 7.0
 80 7.2 6.2 9.4



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BM
 Ion 80.00 (79.70 to 80.70): BM





#71

Phenanthrene

Concen: 37.209 ng

RT: 17.09 min Scan# 2397

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

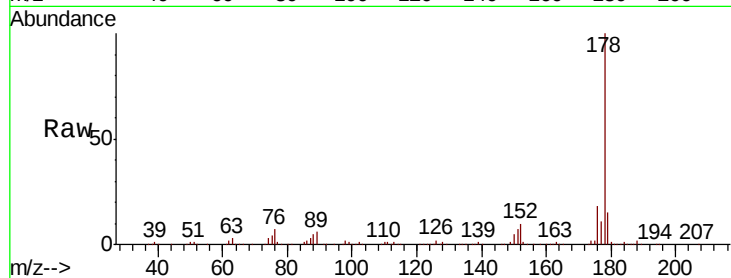
Tot Ion:178 Resp: 702075

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.6

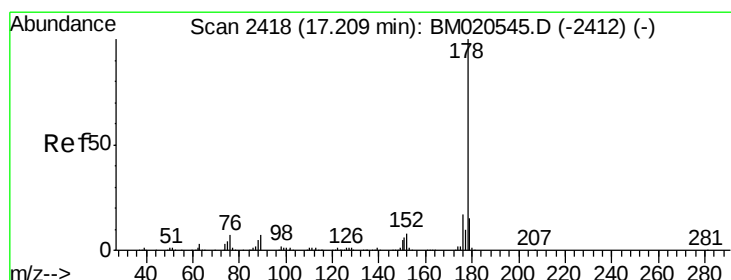
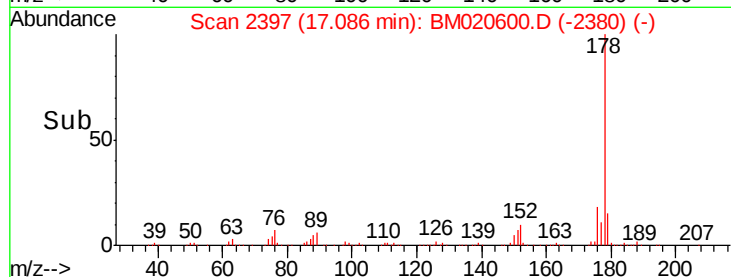
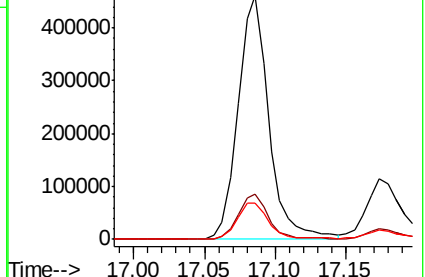
179 14.9 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 10.056 ng

RT: 17.17 min Scan# 2412

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

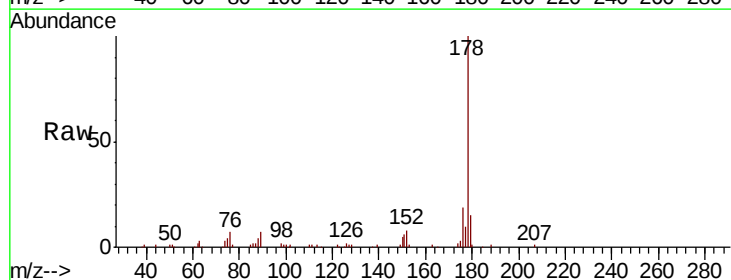
Tgt Ion:178 Resp: 184001

Ion Ratio Lower Upper

178 100

176 18.6 14.5 21.7

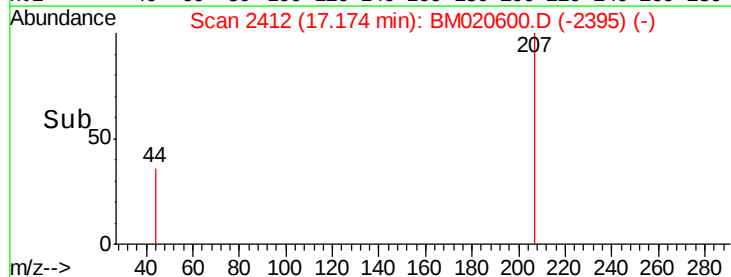
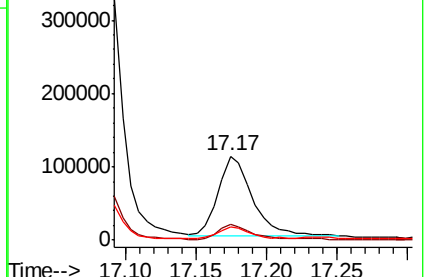
179 15.2 12.2 18.4

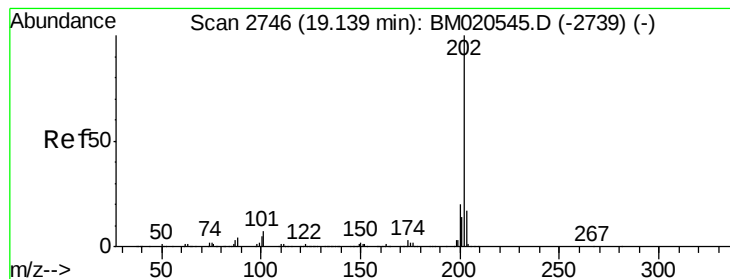


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 39.626 ng

RT: 19.11 min Scan# 2741

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

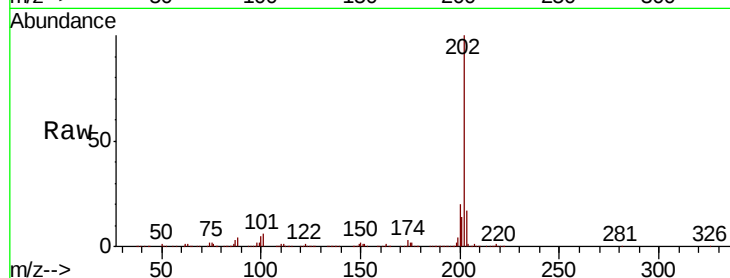
Tot Ion:202 Resp: 1039732

Ion Ratio Lower Upper

202 100

101 6.0 0.0 26.0

203 17.4 0.0 37.3

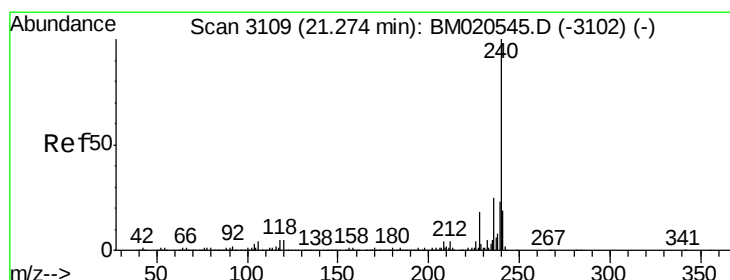
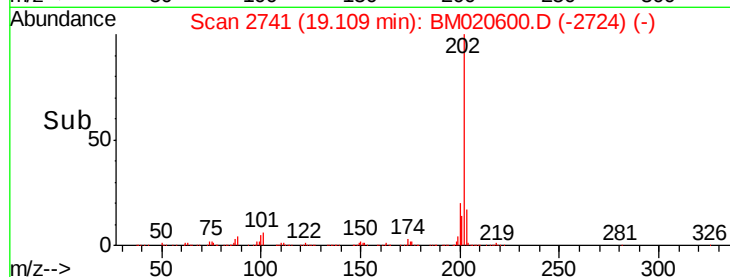
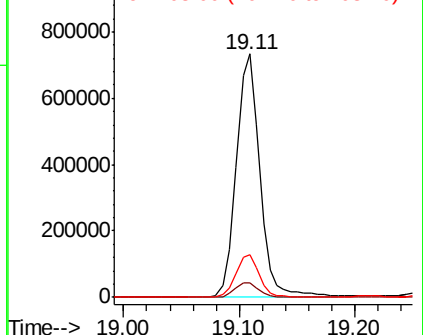


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.24 min Scan# 3103

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

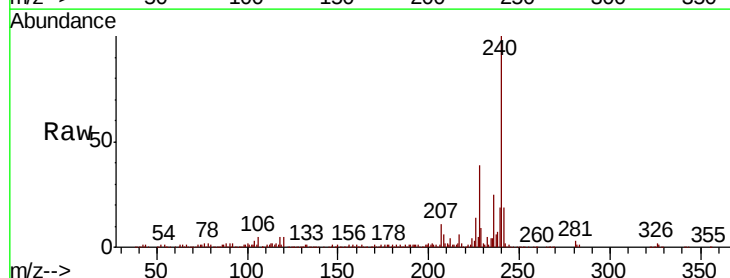
Tgt Ion:240 Resp: 411926

Ion Ratio Lower Upper

240 100

120 5.2 3.7 5.5

236 25.5 20.2 30.2

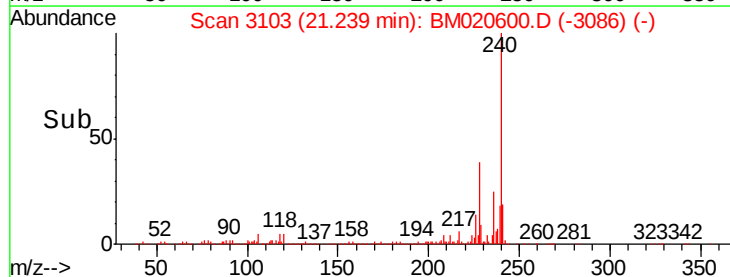
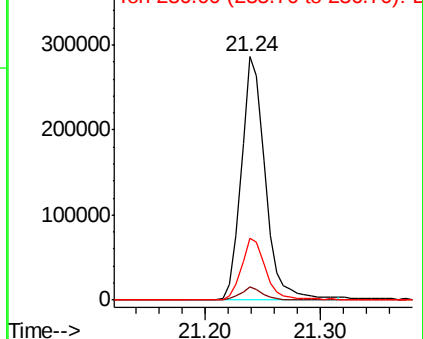


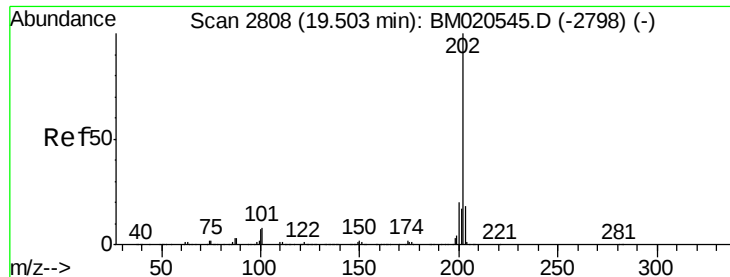
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

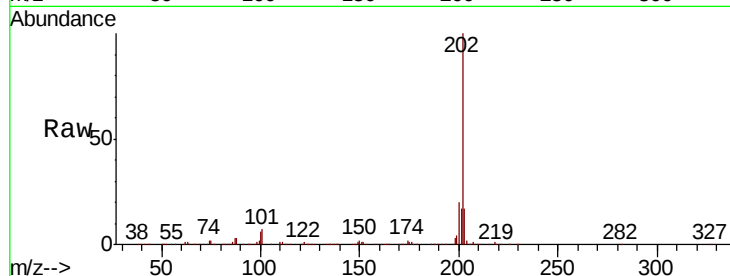




#78
Pvrene
Concen: 34.313 ng
RT: 19.47 min Scan# 2803
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Instrument :
BNA_M
ClientSampleId :
CHRT-26835DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.4	24.6
203	17.3	14.1	21.1

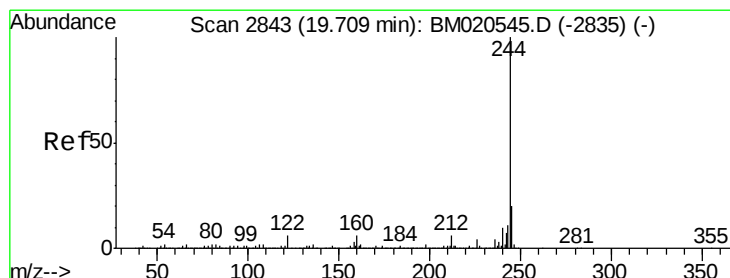
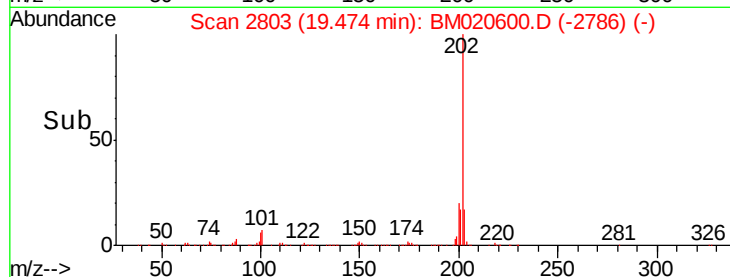
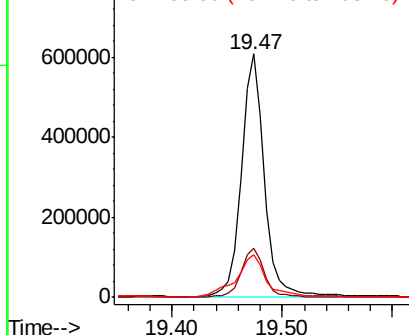


Abundance

Ion 202.00 (201.70 to 202.70): E

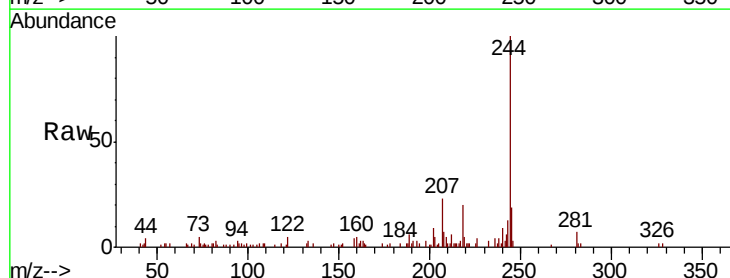
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 1.848 ng
RT: 19.68 min Scan# 2838
Delta R.T. 0.01 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.1	7.7
122	5.2	4.6	7.0

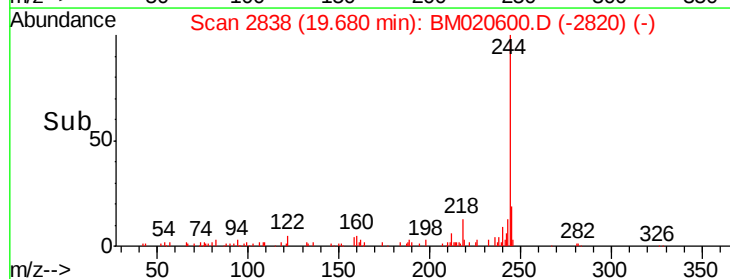
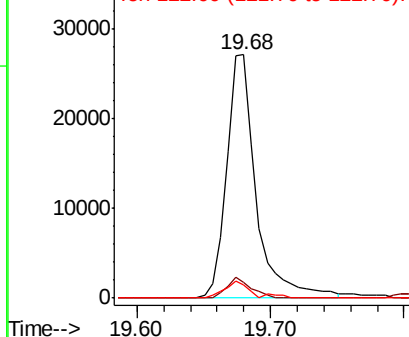


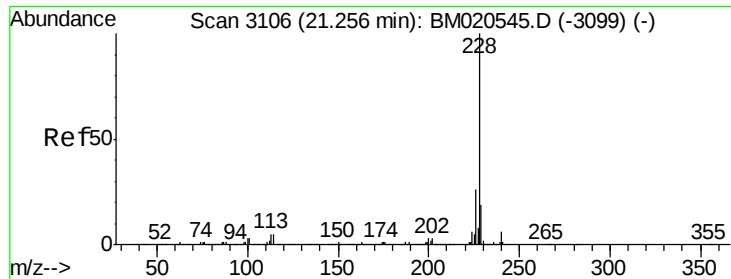
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 15.936 ng

RT: 21.23 min Scan# 3101

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

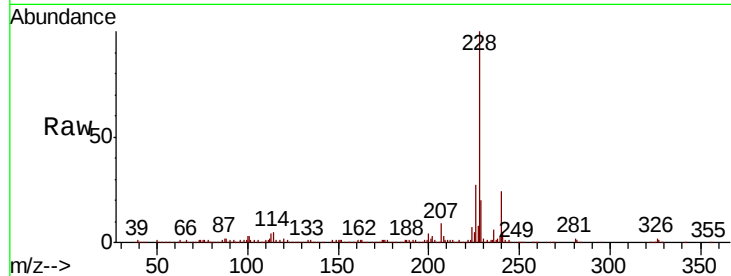
Tot Ion:228 Resp: 454335

Ion Ratio Lower Upper

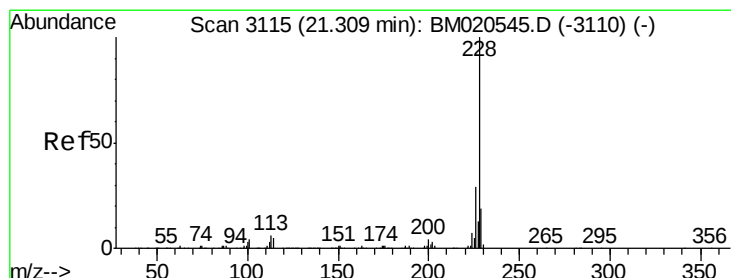
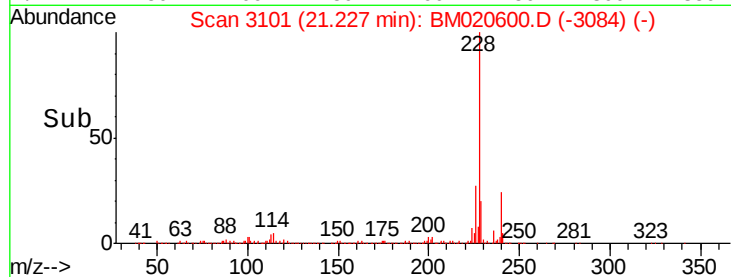
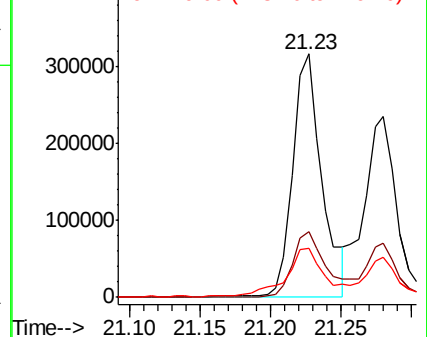
228 100

226 27.0 20.9 31.3

229 20.0 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



#83

Chrysene

Concen: 13.329 ng

RT: 21.28 min Scan# 3110

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

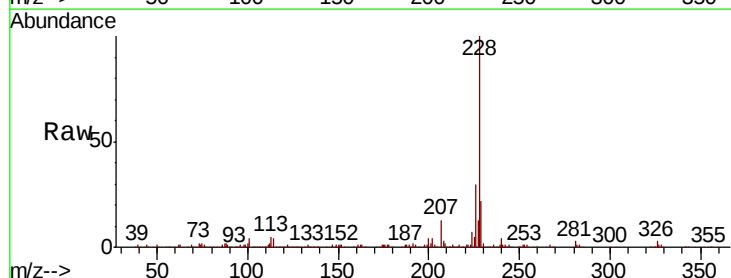
Tgt Ion:228 Resp: 367192

Ion Ratio Lower Upper

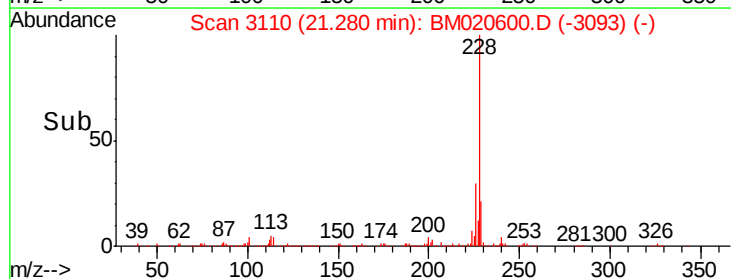
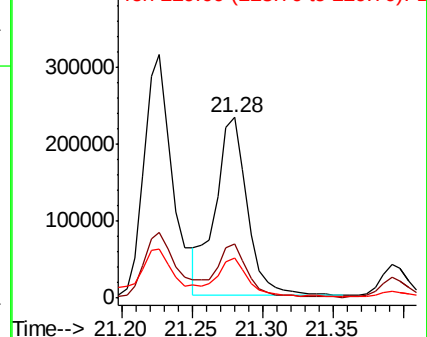
228 100

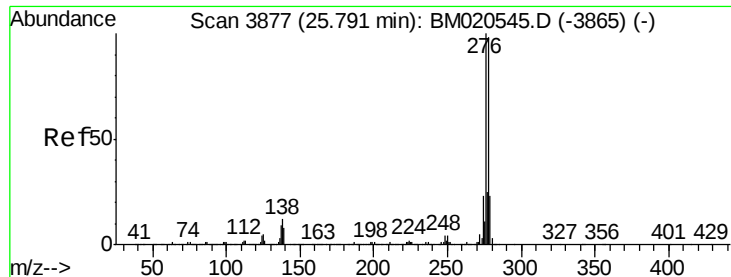
226 30.1 22.7 34.1

229 22.0 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

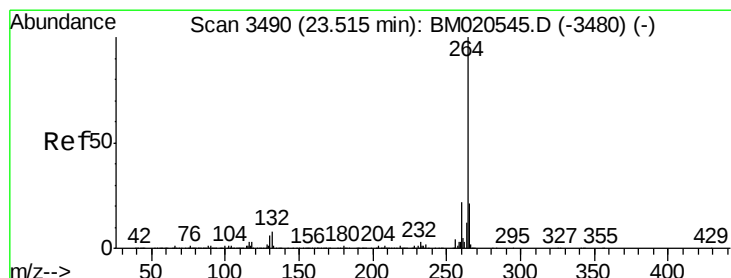
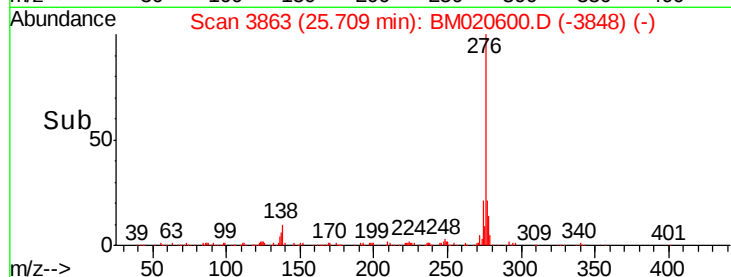
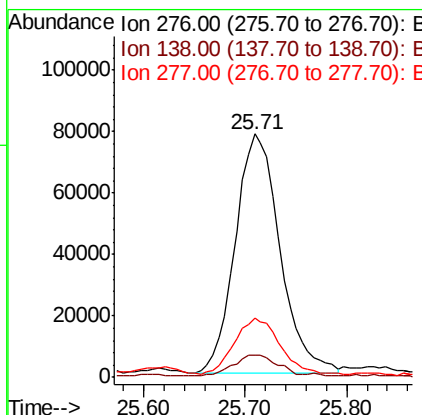
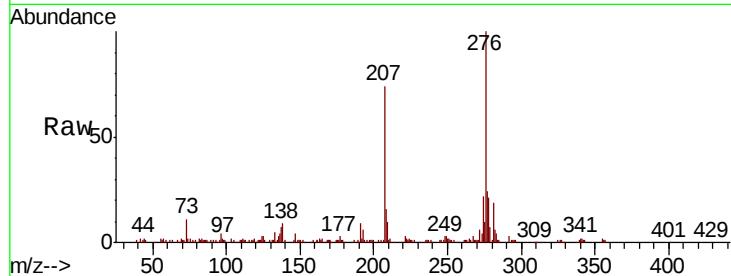




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.166 ng
 RT: 25.71 min Scan# 3863
 Delta R.T. -0.01 min
 Lab File: BM020600.D
 Acq: 29 May 2019 15:32

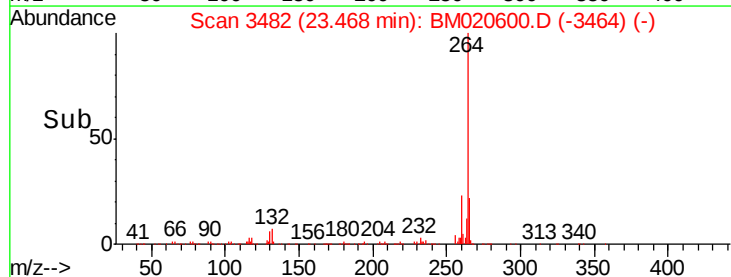
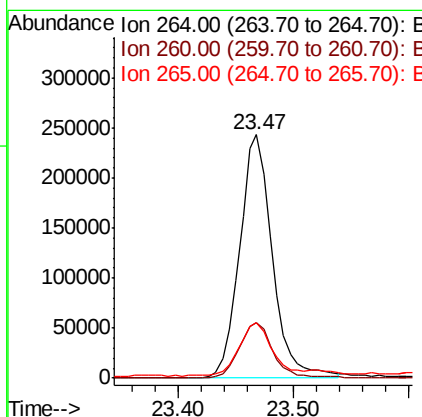
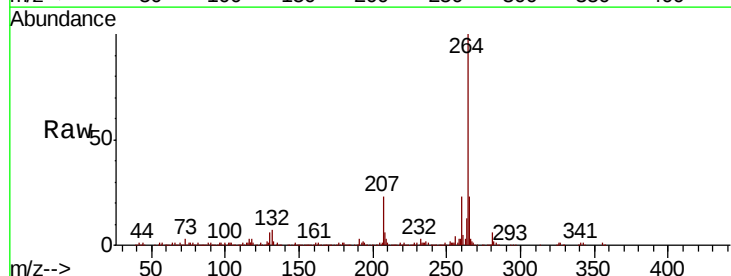
Instrument :
 BNA_M
 ClientSampleId :
 CHRT-26835DL

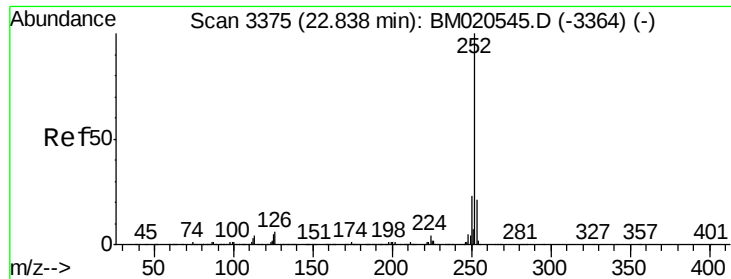
Tot Ion	Ratio	Lower	Upper
276	100		
138	8.9	8.8	13.2
277	23.6	20.4	30.6



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.47 min Scan# 3482
 Delta R.T. 0.01 min
 Lab File: BM020600.D
 Acq: 29 May 2019 15:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.9	28.3
265	22.7	18.2	27.4

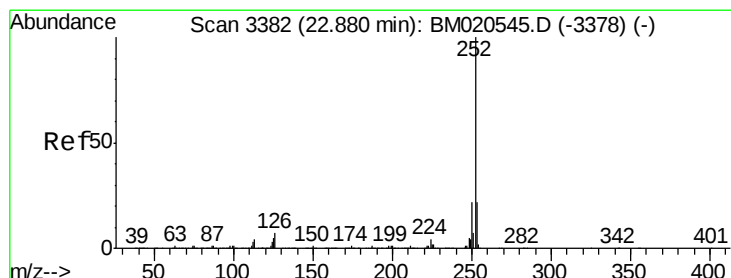
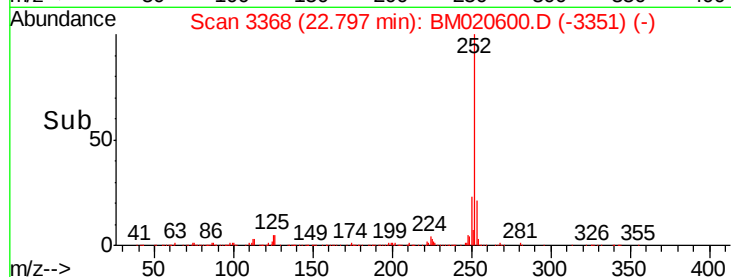
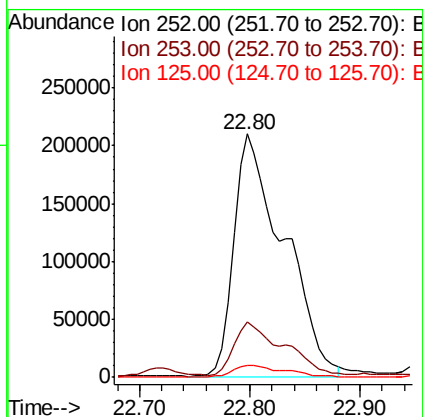
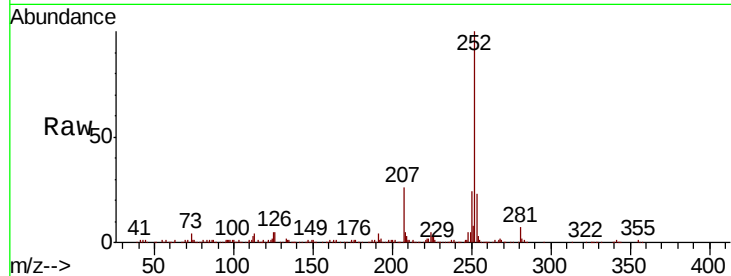




#88
Benzo(b)fluoranthene
Concen: 20.917 ng
RT: 22.80 min Scan# 3368
Delta R.T. -0.00 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

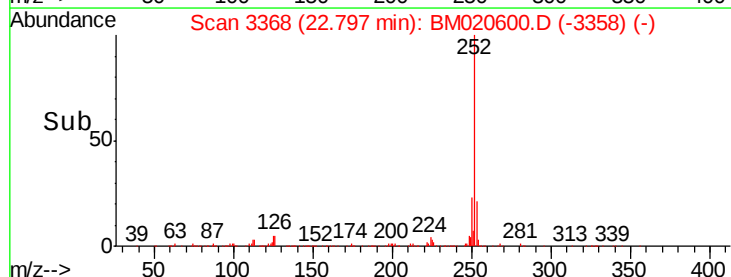
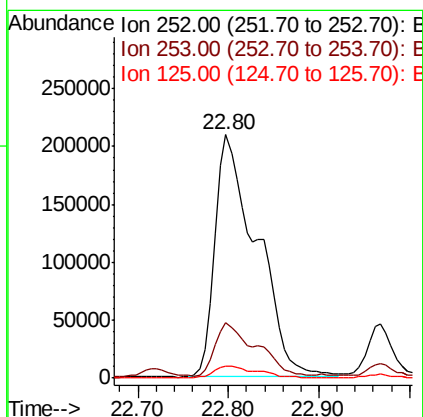
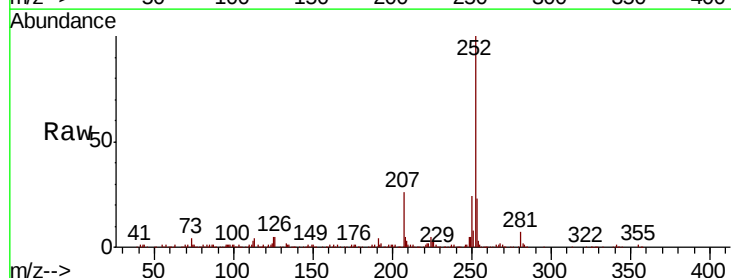
Instrument :
BNA_M
ClientSampleId :
CHRT-26835DL

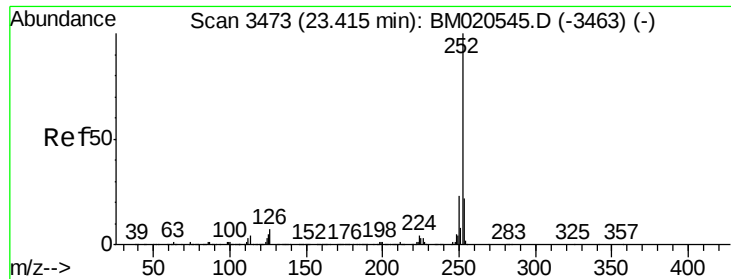
Tot Ion:252 Resp: 658856
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 5.1 3.4 5.2



#89
Benzo(k)fluoranthene
Concen: 21.765 ng
RT: 22.80 min Scan# 3368
Delta R.T. -0.04 min
Lab File: BM020600.D
Acq: 29 May 2019 15:32

Tgt Ion:252 Resp: 665350
Ion Ratio Lower Upper
252 100
253 22.6 17.2 25.8
125 5.1 3.7 5.5





#90

Benzo(a)pyrene

Concen: 13.043 ng

RT: 23.37 min Scan# 3466

Delta R.T. 0.01 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

Instrument :

BNA_M

ClientSampleId :

CHRT-26835DL

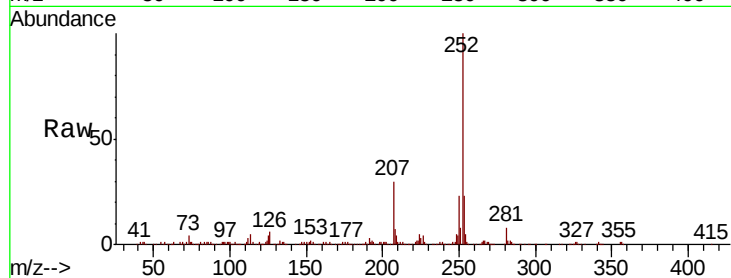
Tot Ion:252 Resp: 378049

Ion Ratio Lower Upper

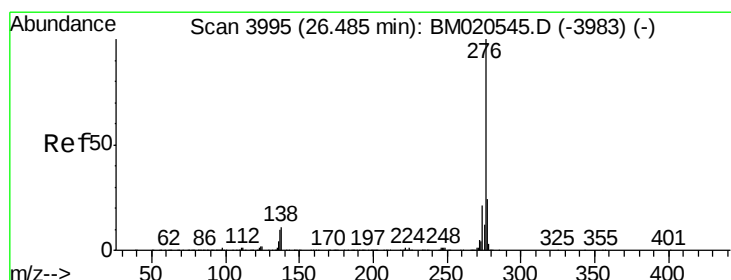
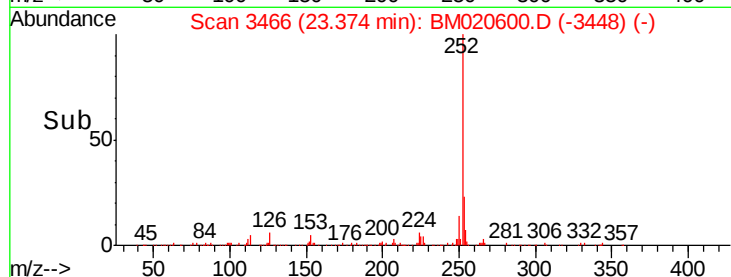
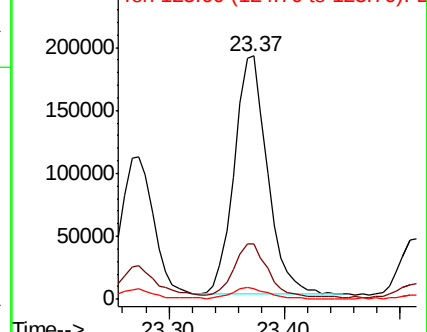
252 100

253 22.7 17.8 26.6

125 4.3 3.8 5.8



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



#92

Benzo(g,h,i)perylene

Concen: 8.276 ng

RT: 26.40 min Scan# 3981

Delta R.T. -0.00 min

Lab File: BM020600.D

Acq: 29 May 2019 15:32

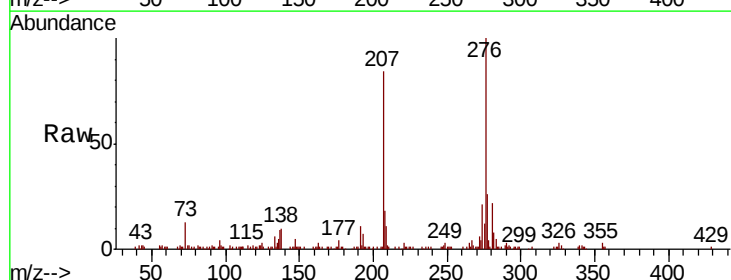
Tgt Ion:276 Resp: 227610

Ion Ratio Lower Upper

276 100

277 26.4 19.1 28.7

138 10.0 7.6 11.4



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

