

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021320\
 Data File : BG044434.D
 Acq On : 14 Feb 2020 1:52
 Operator : CG/JU
 Sample : L1370-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-021220

Quant Time: Feb 14 10:25:55 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 10 16:11:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	103220	20.00	ng	0.00
21) Naphthalene-d8	10.71	136	434298	20.00	ng	0.00
39) Acenaphthene-d10	14.55	164	255611	20.00	ng	0.00
64) Phenanthrene-d10	17.29	188	509507	20.00	ng	0.00
76) Chrysene-d12	21.54	240	464848	20.00	ng	0.00
87) Perylene-d12	24.63	264	499432	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	233597	39.94	ng	0.00
7) Phenol-d6	7.08	99	308527	39.28	ng	0.00
23) Nitrobenzene-d5	9.06	82	192208	24.99	ng	0.00
42) 2,4,6-Tribromophenol	16.03	330	101131	33.70	ng	0.00
45) 2-Fluorobiphenyl	13.16	172	436052	28.57	ng	0.00
79) Terphenyl-d14	19.90	244	577213	25.54	ng	0.00

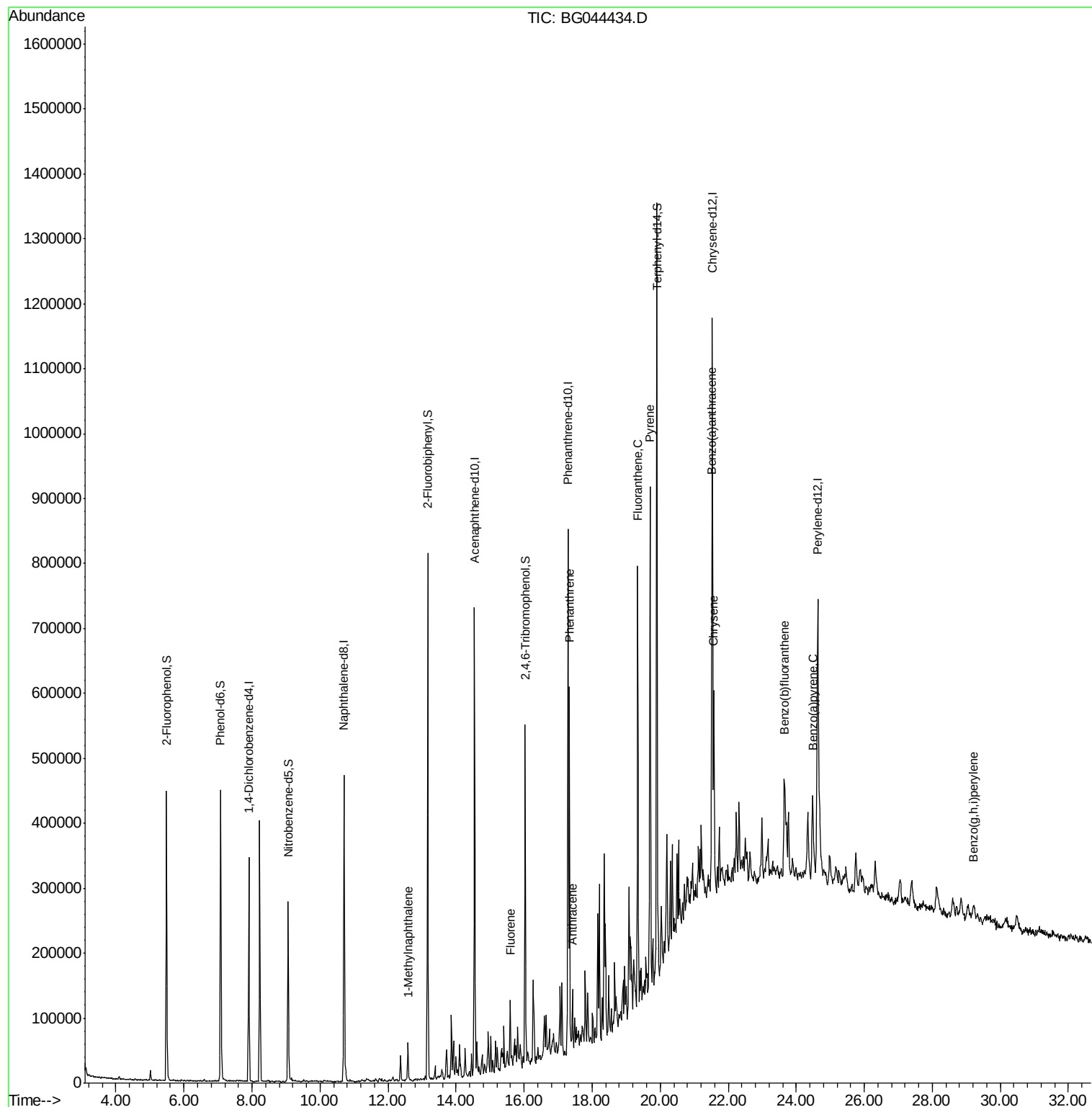
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
38) 1-Methylnaphthalene	12.58	142	30287	2.053	ng	95
58) Fluorene	15.59	166	41429	2.491	ng	98
71) Phenanthrene	17.33	178	349068	14.148	ng	95
72) Anthracene	17.42	178	61781	2.533	ng	95
75) Fluoranthene	19.34	202	384476	13.471	ng	99
78) Pyrene	19.70	202	473876	15.874	ng	96
81) Benzo(a)anthracene	21.51	228	197134	6.881	ng	99
83) Chrysene	21.58	228	202475	7.312	ng	97
88) Benzo(b)fluoranthene	23.66	252	194212	6.748	ng	# 98
90) Benzo(a)pyrene	24.49	252	156423	5.749	ng	# 93
92) Benzo(g,h,i)perylene	29.23	276	61777	2.292	ng	93

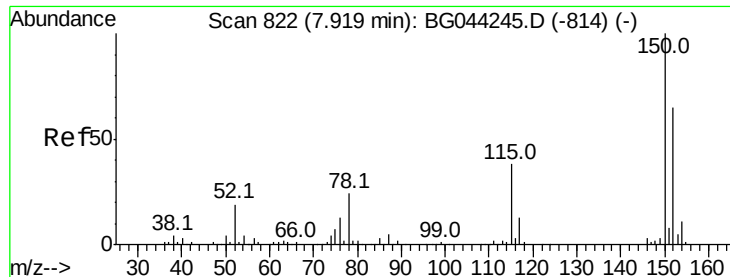
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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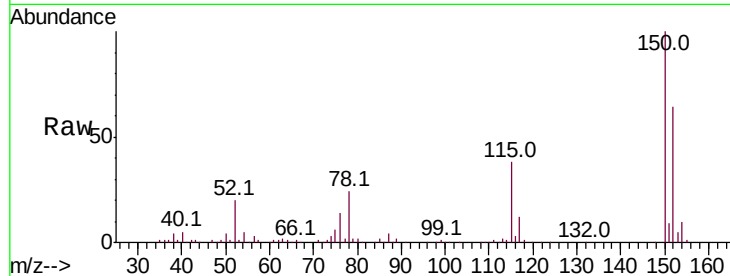


#1

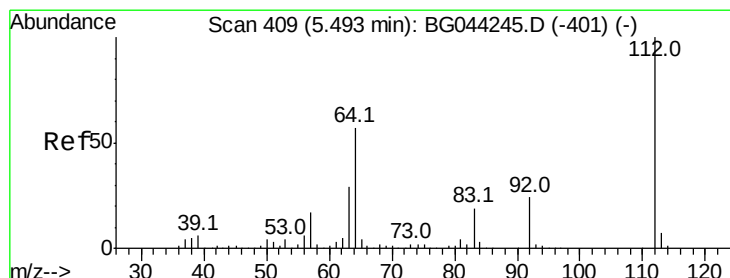
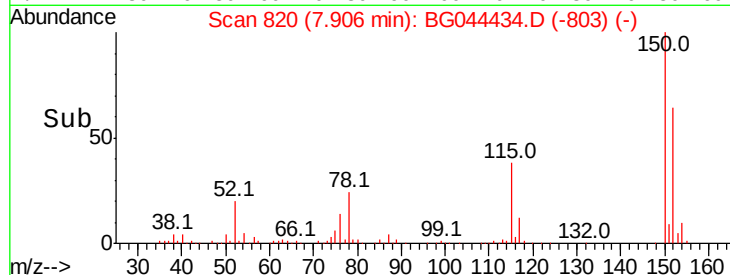
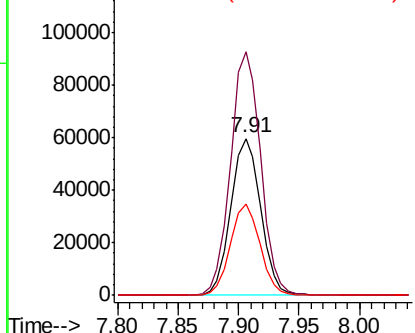
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.91 min Scan# 820
 Delta R.T. 0.00 min
 Lab File: BG044434.D
 Acq: 14 Feb 2020 1:52

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-021220

Tot Ion:152 Resp: 103220
 Ion Ratio Lower Upper
 152 100
 150 155.5 122.6 183.8
 115 58.4 46.0 69.0



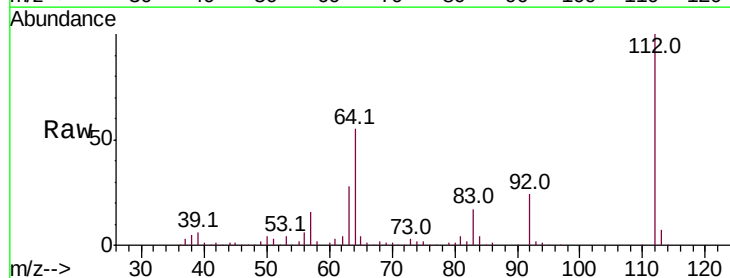
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



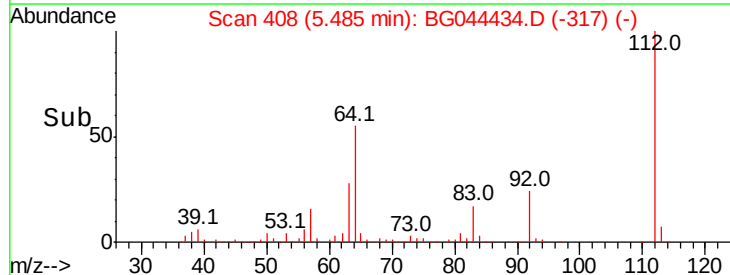
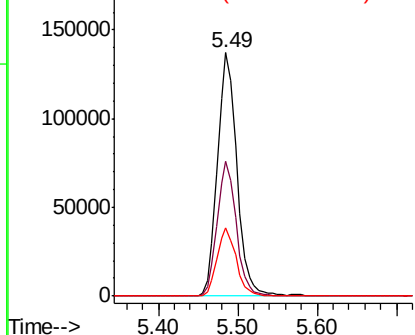
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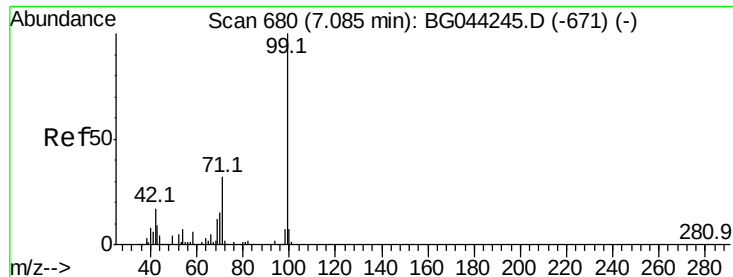
2-Fluorophenol
 Concen: 39.940 ng
 RT: 5.49 min Scan# 408
 Delta R.T. 0.01 min
 Lab File: BG044434.D
 Acq: 14 Feb 2020 1:52

Tgt Ion:112 Resp: 233597
 Ion Ratio Lower Upper
 112 100
 64 55.1 45.4 68.2
 63 27.9 22.9 34.3



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BG
 Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 39.283 ng

RT: 7.08 min Scan# 679

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Instrument :

BNA_G

ClientSampleId :

OR-02-021220

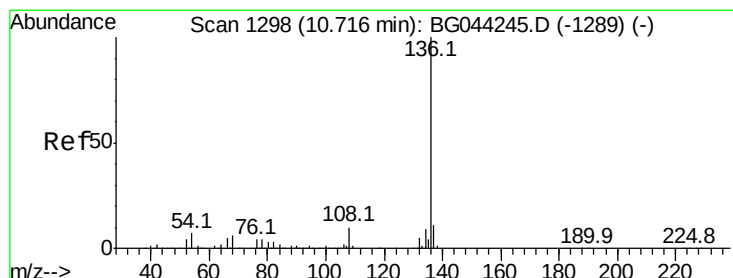
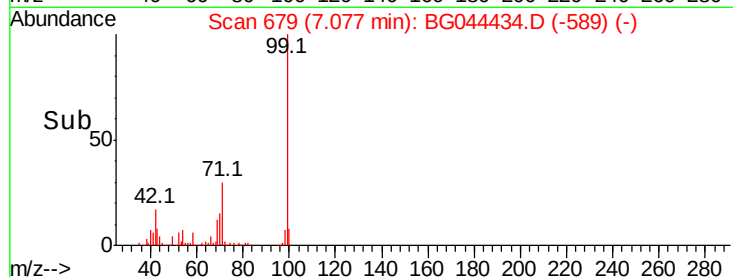
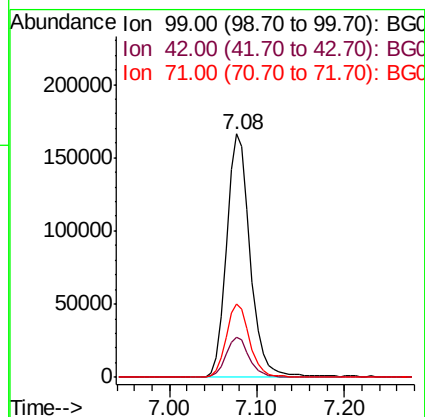
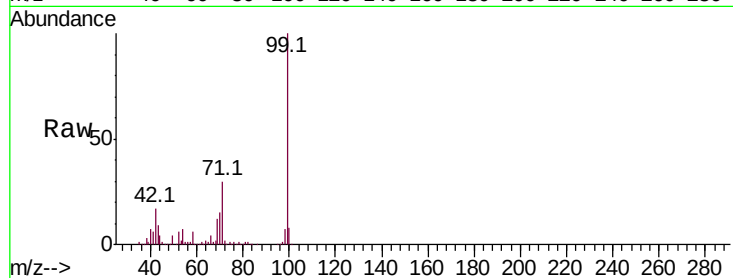
Tot Ion: 99 Resp: 308527

Ion Ratio Lower Upper

99 100

42 16.7 13.8 20.6

71 30.3 25.5 38.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.71 min Scan# 1297

Delta R.T. 0.01 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Tgt Ion: 136 Resp: 434298

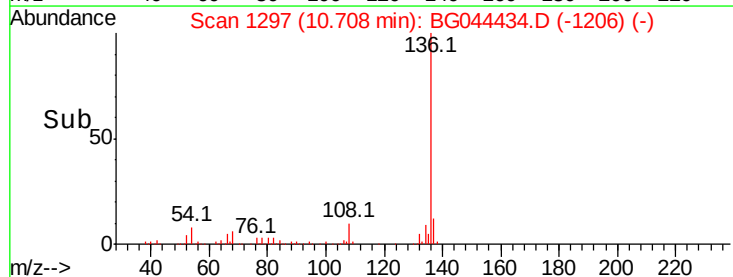
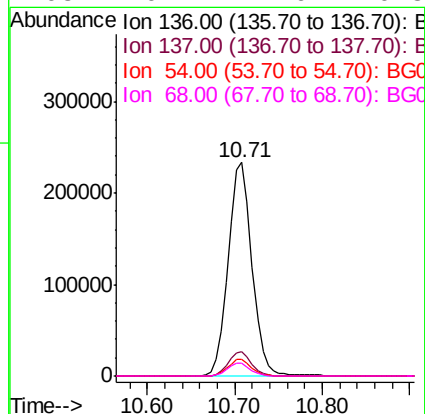
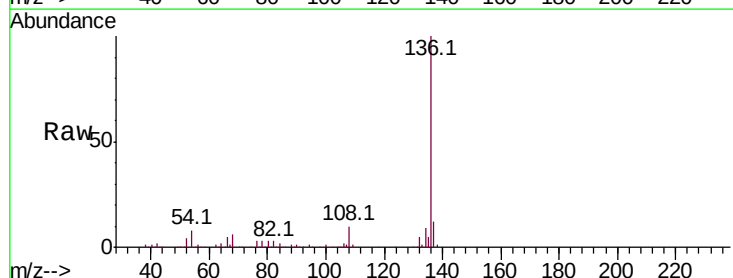
Ion Ratio Lower Upper

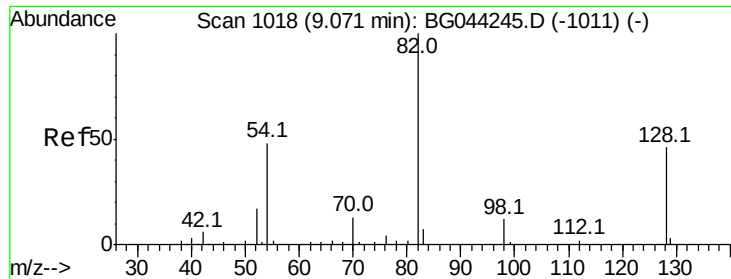
136 100

137 11.6 8.8 13.2

54 7.7 5.8 8.8

68 6.1 4.6 6.8

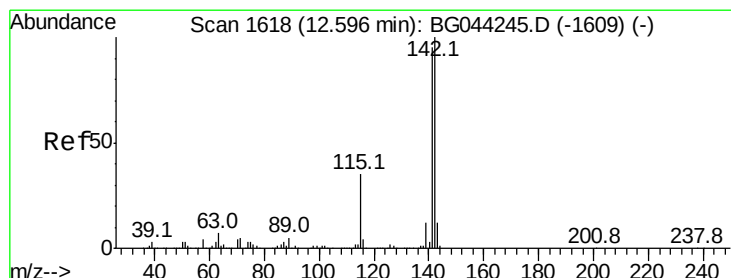
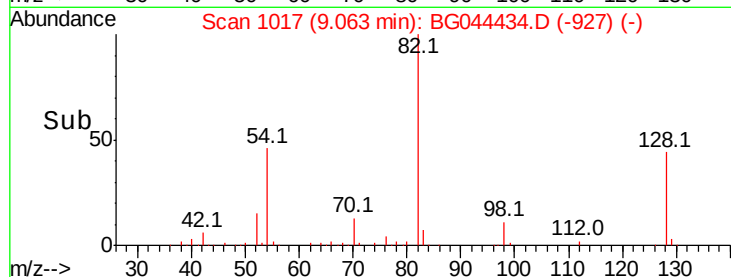
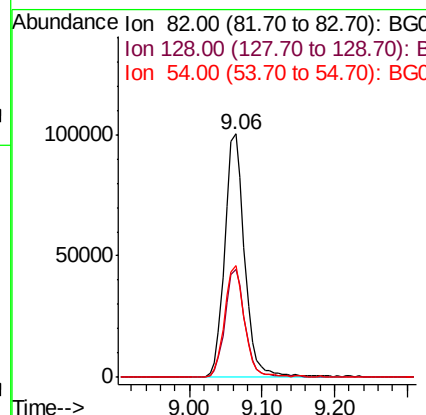
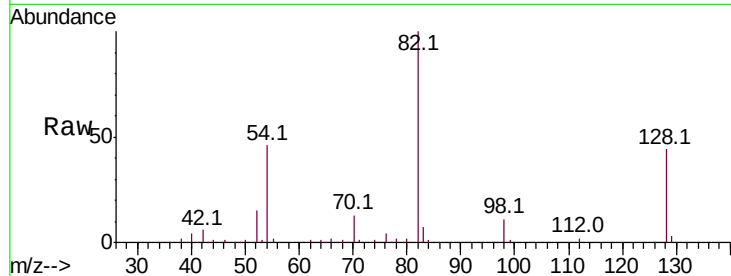




#23
 Nitrobenzene-d5
 Concen: 24.986 ng
 RT: 9.06 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: BG044434.D
 Acq: 14 Feb 2020 1:52

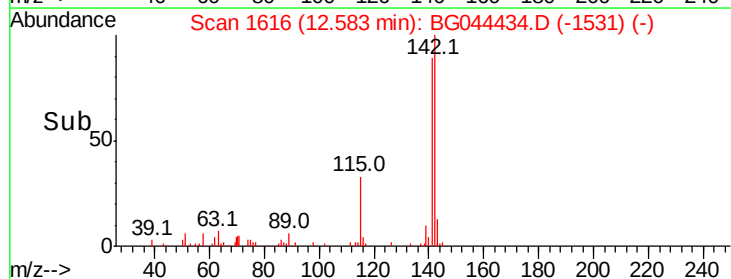
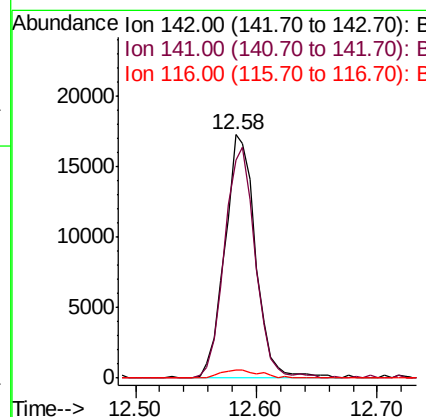
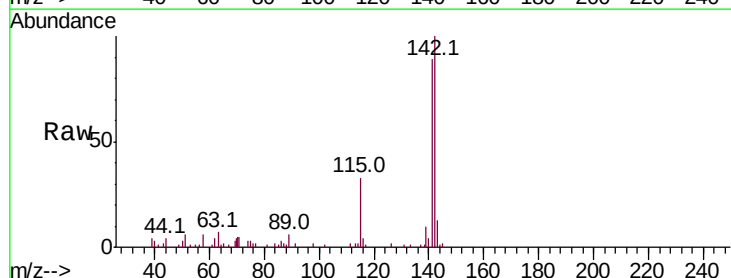
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-021220

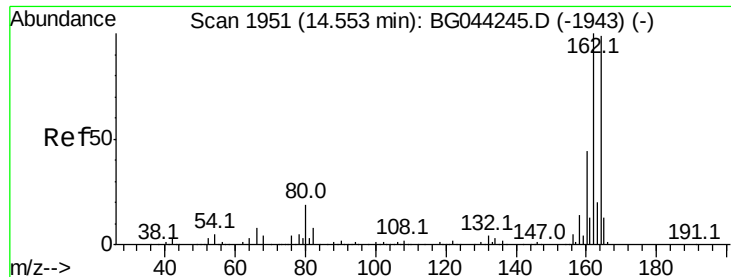
Tot Ion	82	Resp	192208
Ion Ratio	Lower	Upper	
82	100		
128	44.1	36.5	54.7
54	45.7	38.6	58.0



#38
 1-Methylnaphthalene
 Concen: 2.053 ng
 RT: 12.58 min Scan# 1616
 Delta R.T. 0.00 min
 Lab File: BG044434.D
 Acq: 14 Feb 2020 1:52

Tgt Ion	142	Resp	30287
Ion Ratio	Lower	Upper	
142	100		
141	89.4	75.8	113.6
116	3.6	3.1	4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.55 min Scan# 1950

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Instrument :

BNA_G

ClientSampleId :

OR-02-021220

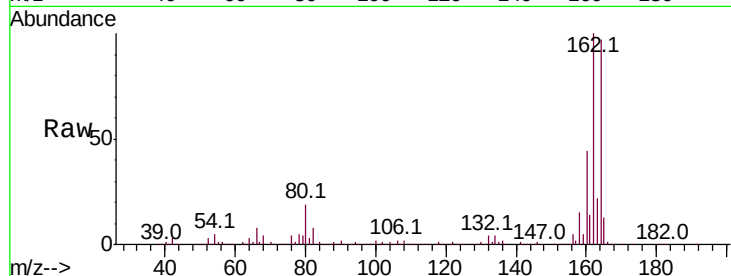
Tot Ion:164 Resp: 255611

Ion Ratio Lower Upper

164 100

162 103.1 80.7 121.1

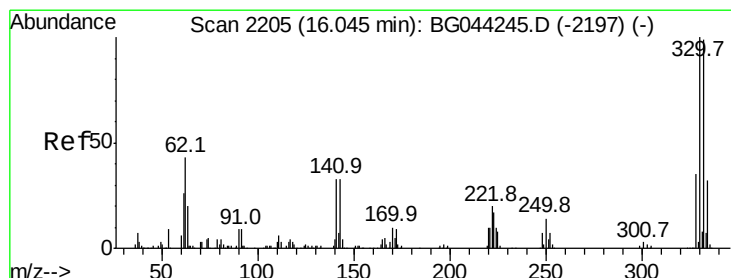
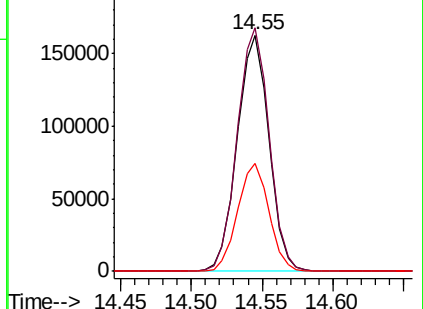
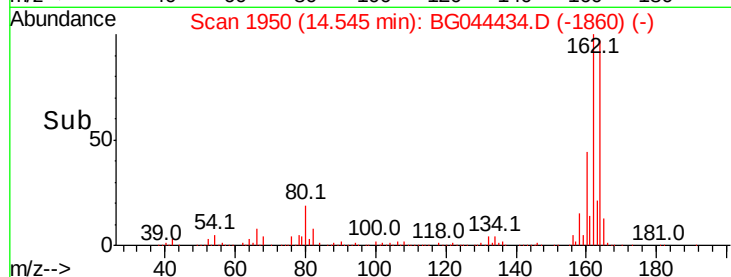
160 45.4 35.3 52.9



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: 33.702 ng

RT: 16.03 min Scan# 2203

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

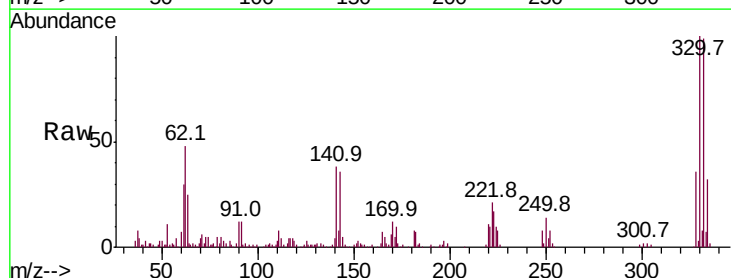
Tgt Ion:330 Resp: 101131

Ion Ratio Lower Upper

330 100

332 96.0 77.2 115.8

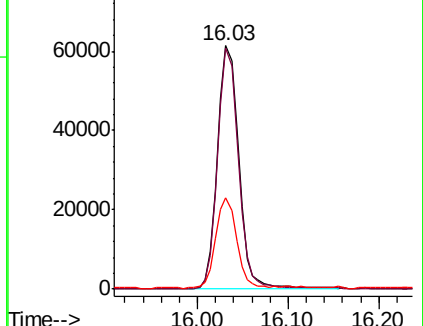
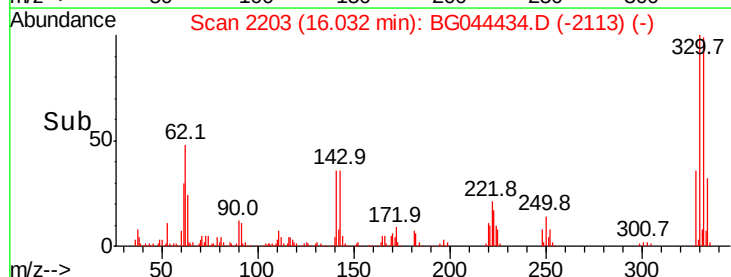
141 36.2 28.3 42.5

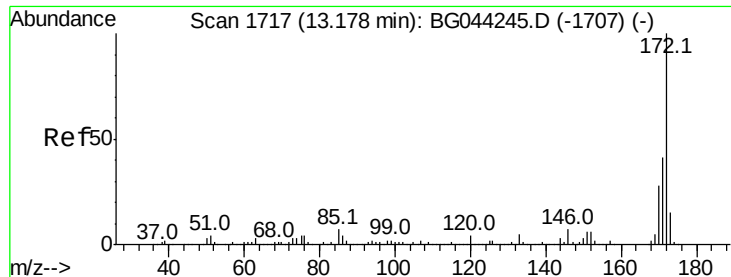


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

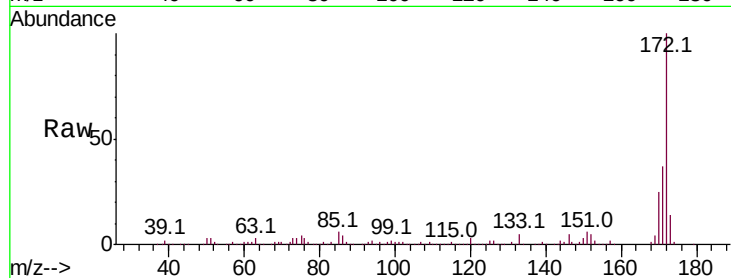




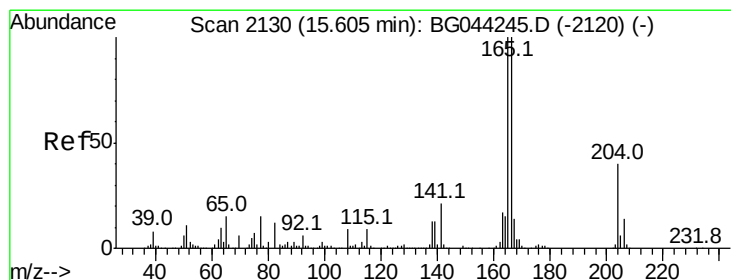
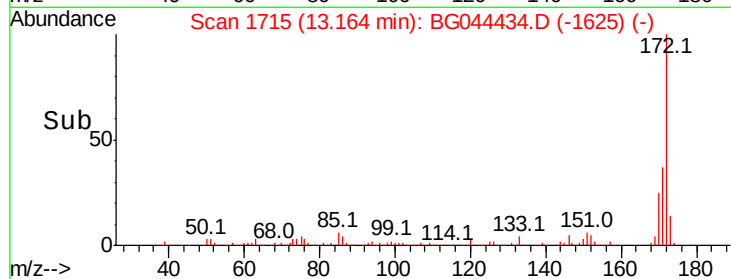
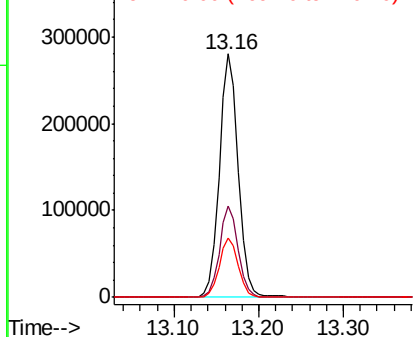
#45
2-Fluorobiphenyl
Concen: 28.567 ng
RT: 13.16 min Scan# 1715
Delta R.T. 0.00 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

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Tot Ion	Ratio	Lower	Upper
172	100		
171	37.3	32.9	49.3
170	24.6	22.0	33.0

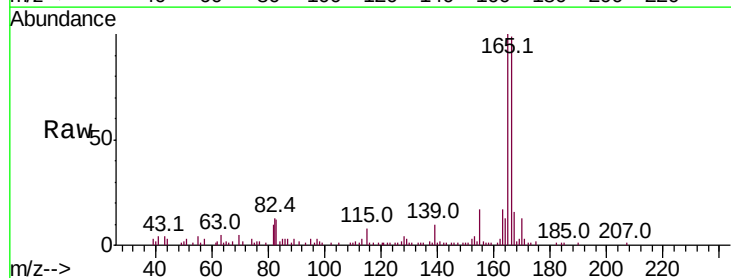


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

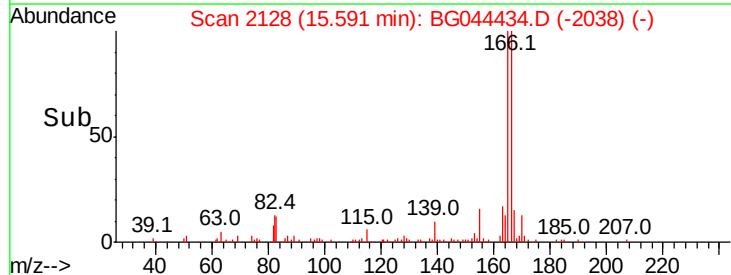
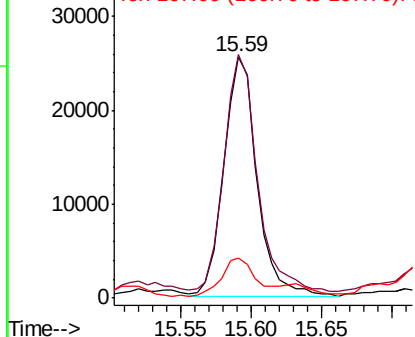


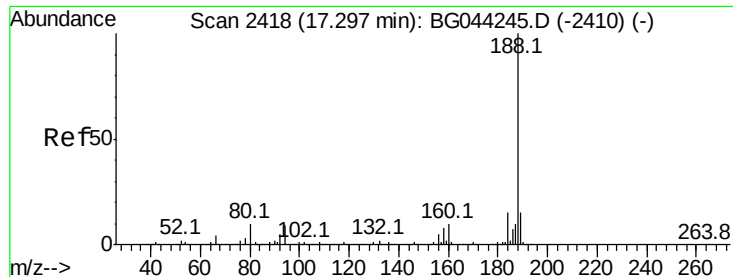
#58
Fluorene
Concen: 2.491 ng
RT: 15.59 min Scan# 2128
Delta R.T. 0.00 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.9	119.9
167	16.6	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

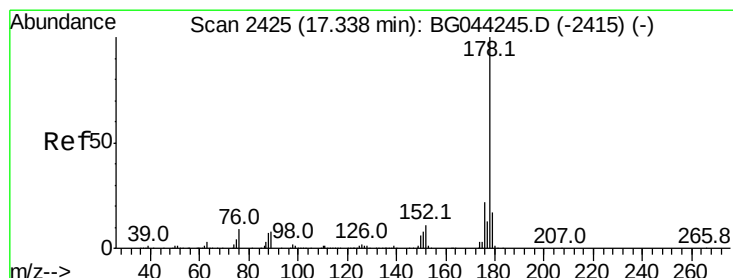
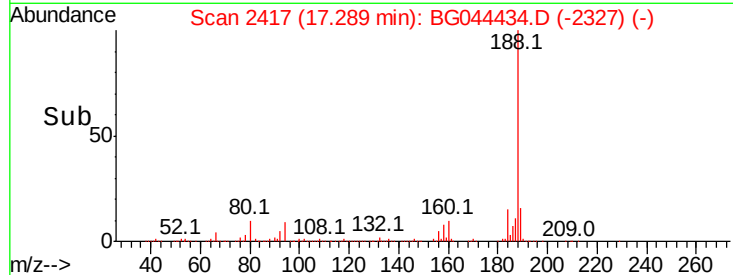
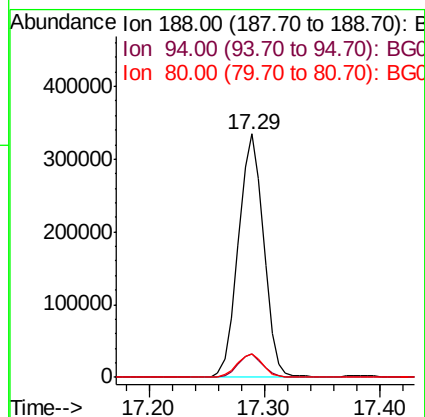
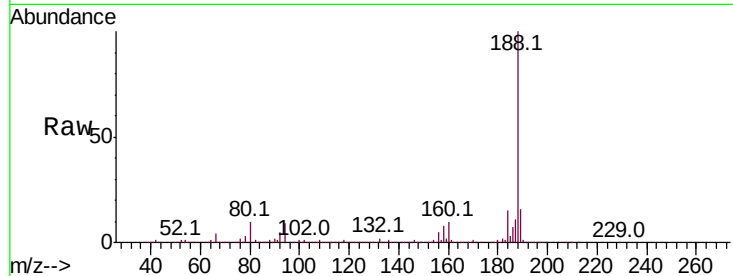




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.29 min Scan# 2417
Delta R.T. 0.00 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

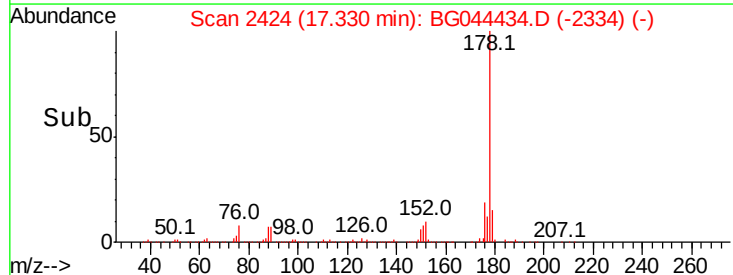
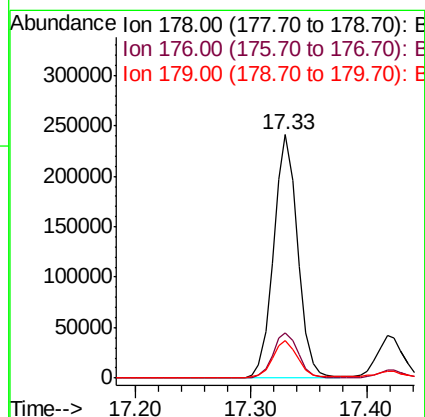
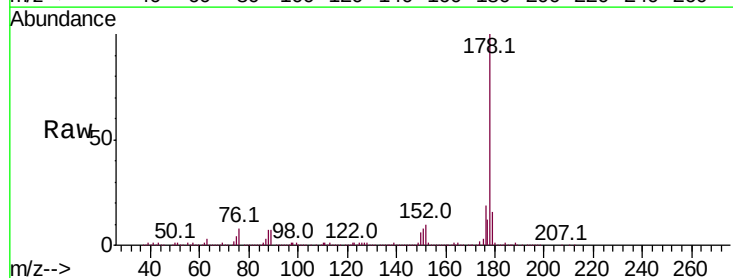
Instrument :
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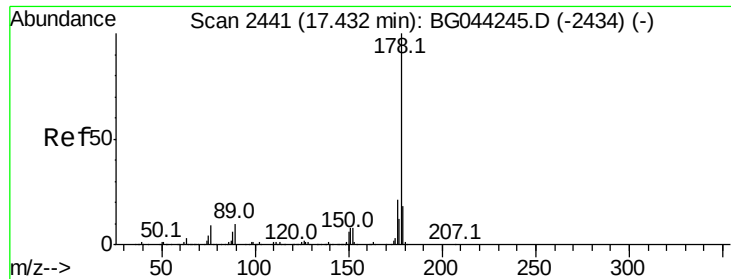
Tot Ion:188 Resp: 509507
Ion Ratio Lower Upper
188 100
94 9.4 7.4 11.2
80 9.5 7.7 11.5



#71
Phenanthrene
Concen: 14.148 ng
RT: 17.33 min Scan# 2424
Delta R.T. 0.00 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

Tgt Ion:178 Resp: 349068
Ion Ratio Lower Upper
178 100
176 18.8 17.7 26.5
179 15.5 13.7 20.5





#72

Anthracene

Concen: 2.533 ng

RT: 17.42 min Scan# 2439

Delta R.T. -0.01 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Instrument :

BNA_G

ClientSampleId :

OR-02-021220

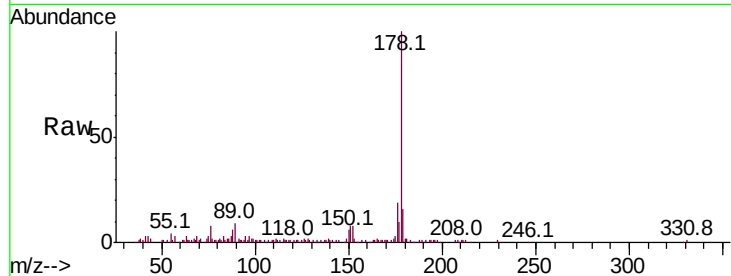
Tot Ion:178 Resp: 61781

Ion Ratio Lower Upper

178 100

176 18.8 17.0 25.4

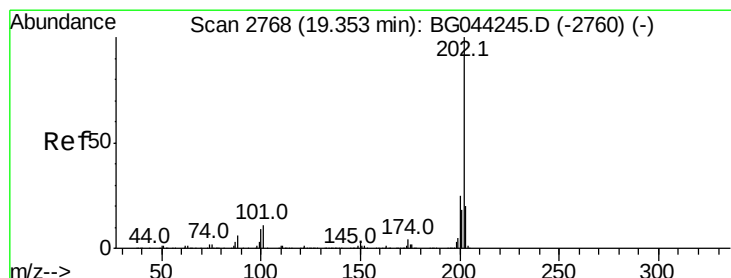
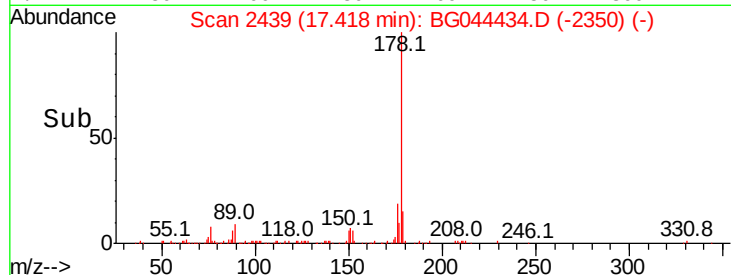
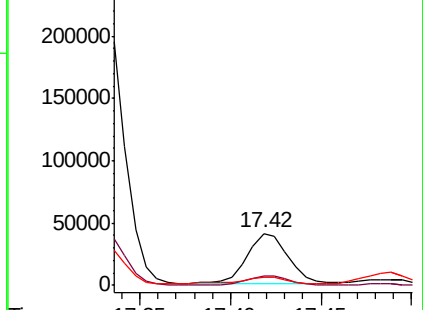
179 15.7 14.4 21.6



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: 13.471 ng

RT: 19.34 min Scan# 2766

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

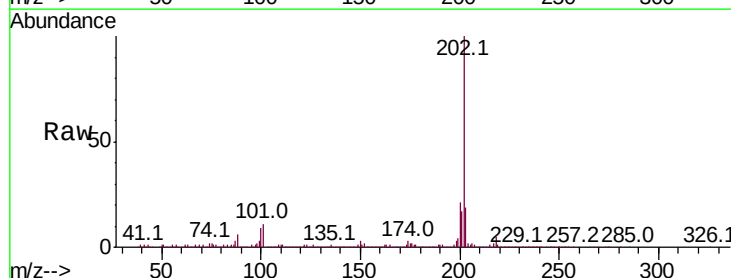
Tgt Ion:202 Resp: 384476

Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.3

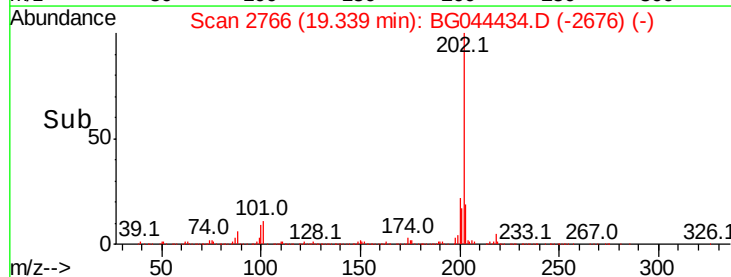
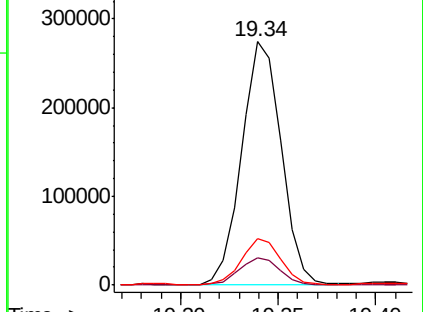
203 19.0 0.0 39.9

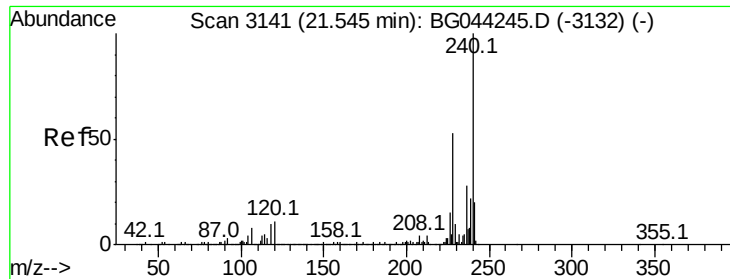


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

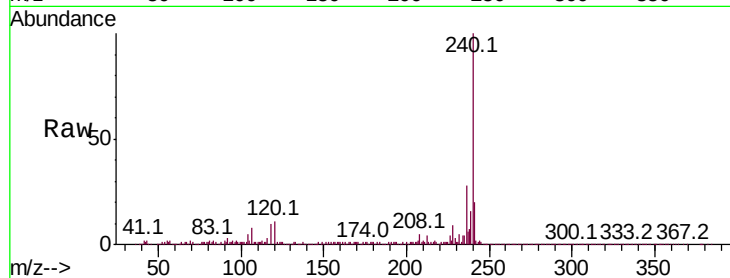




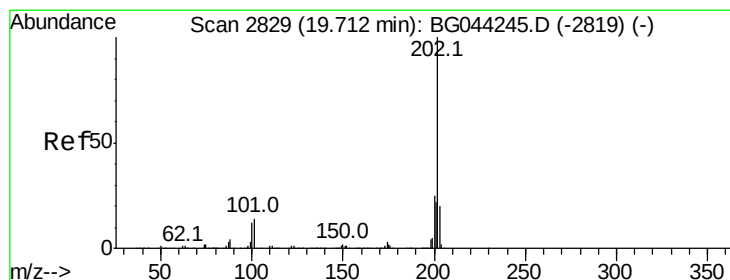
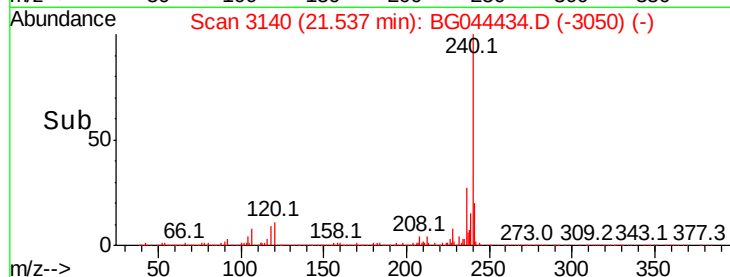
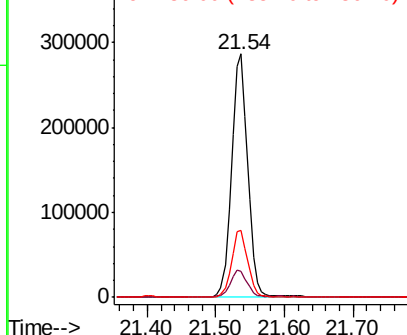
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.54 min Scan# 3140
Delta R.T. 0.00 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

Instrument :
BNA_G
ClientSampleId :
OR-02-021220

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.4	12.6
236	27.7	22.1	33.1

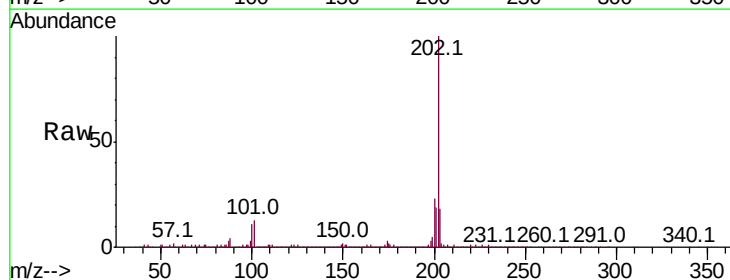


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

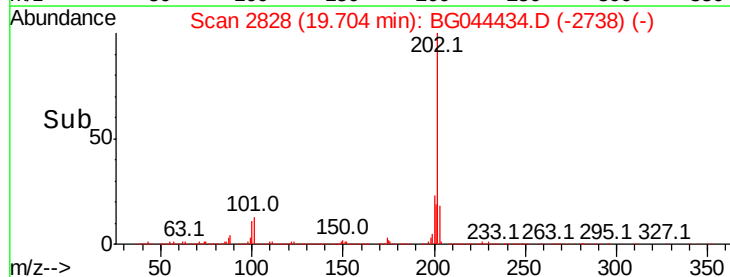
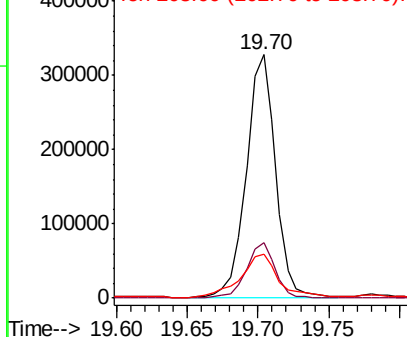


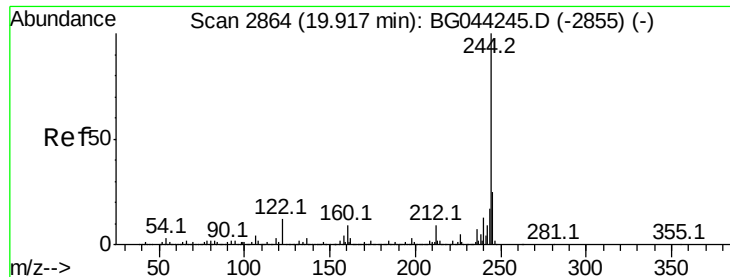
#78
Pyrene
Concen: 15.874 ng
RT: 19.70 min Scan# 2828
Delta R.T. 0.00 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.9	20.0	30.0
203	18.3	16.2	24.2



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: 25.541 ng

RT: 19.90 min Scan# 2862

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Instrument :

BNA_G

ClientSampleId :

OR-02-021220

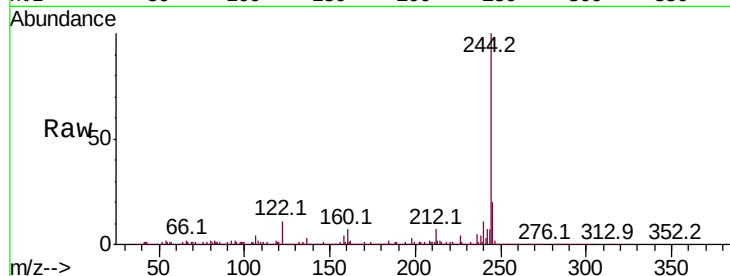
Tot Ion:244 Resp: 577213

Ion Ratio Lower Upper

244 100

212 7.3 7.4 11.2#

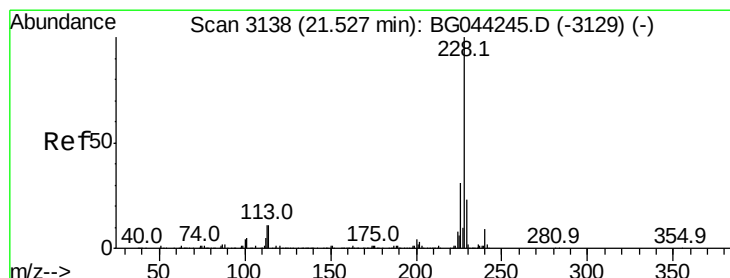
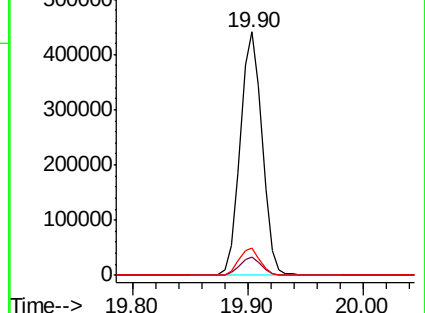
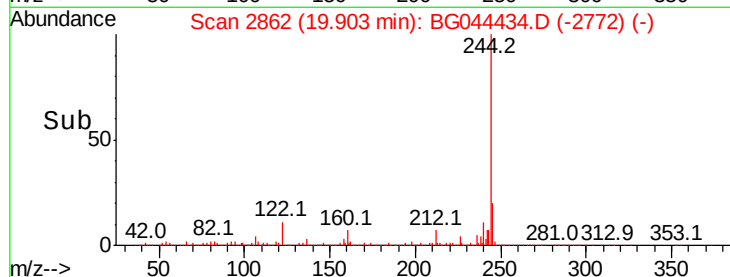
122 11.0 9.8 14.6



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: 6.881 ng

RT: 21.51 min Scan# 3136

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

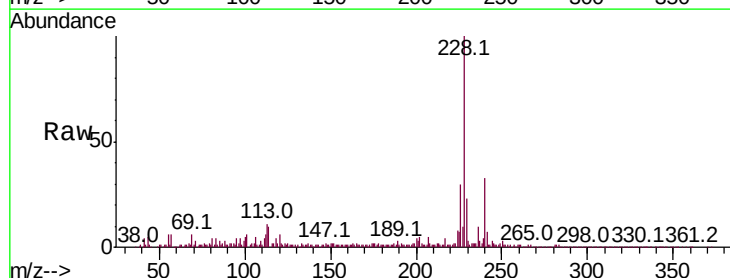
Tgt Ion:228 Resp: 197134

Ion Ratio Lower Upper

228 100

226 30.1 24.7 37.1

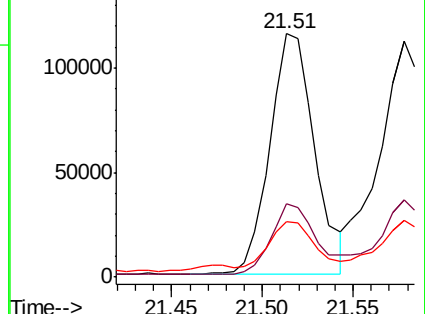
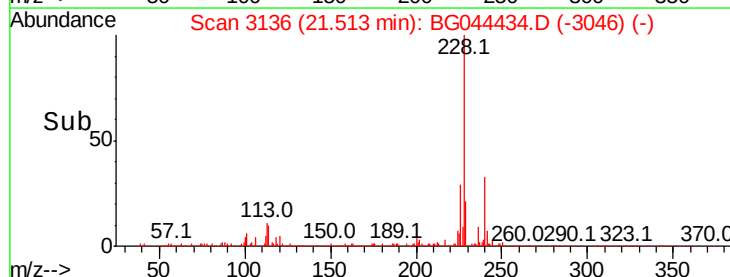
229 22.6 18.2 27.4

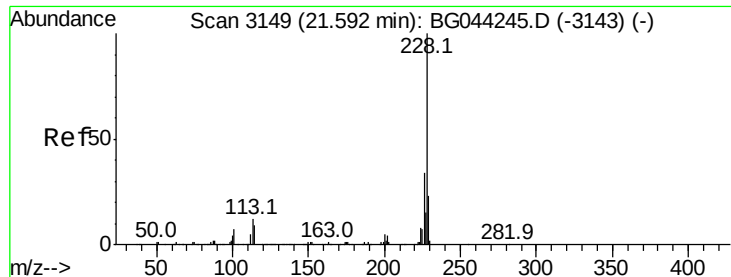


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 7.312 ng

RT: 21.58 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Instrument :

BNA_G

ClientSampleId :

OR-02-021220

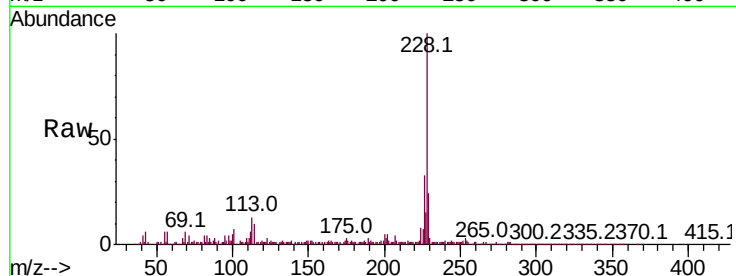
Tot Ion:228 Resp: 202475

Ion Ratio Lower Upper

228 100

226 32.6 27.1 40.7

229 24.1 17.9 26.9

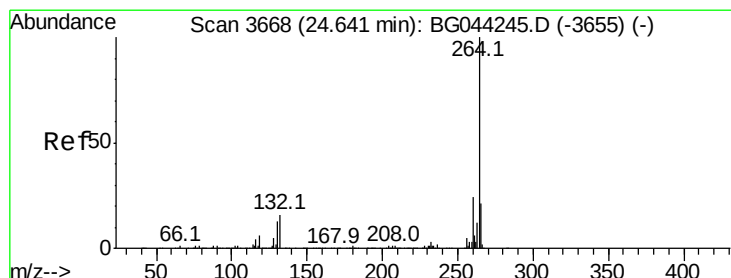
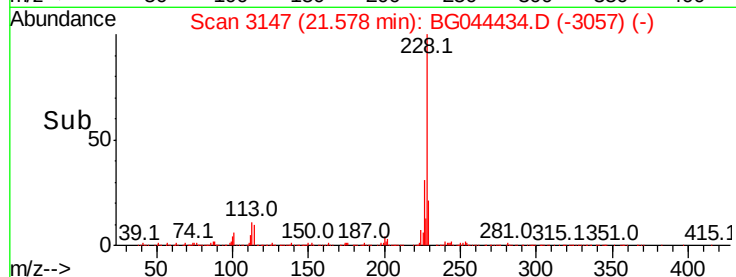
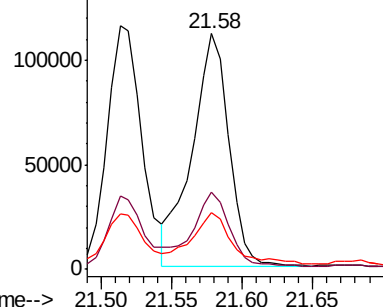


Abundance

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

Perylene-d12

Concen: 20.000 ng

RT: 24.63 min Scan# 3667

Delta R.T. 0.01 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

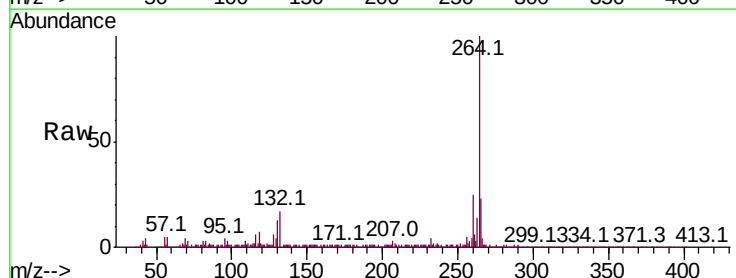
Tgt Ion:264 Resp: 499432

Ion Ratio Lower Upper

264 100

260 25.2 19.4 29.2

265 22.8 16.7 25.1

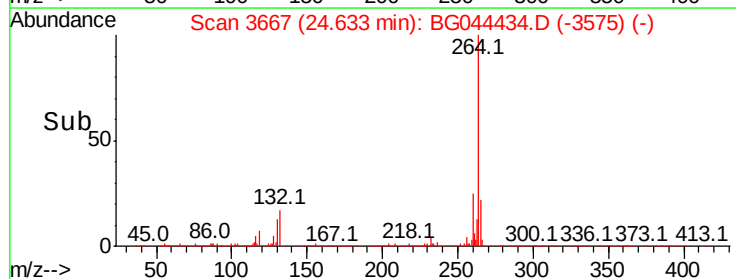
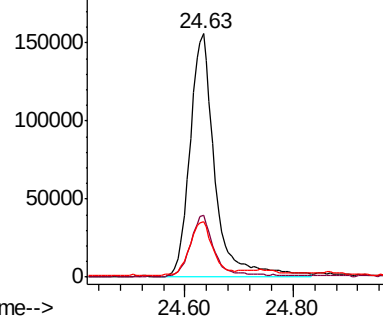


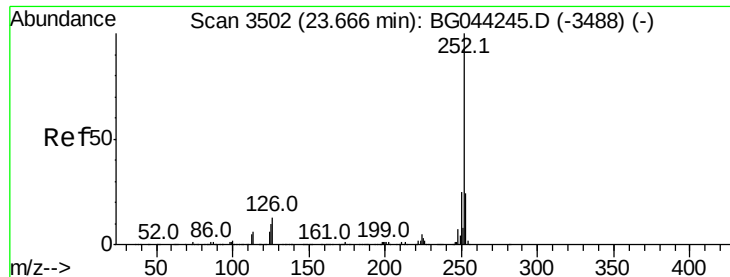
Abundance

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

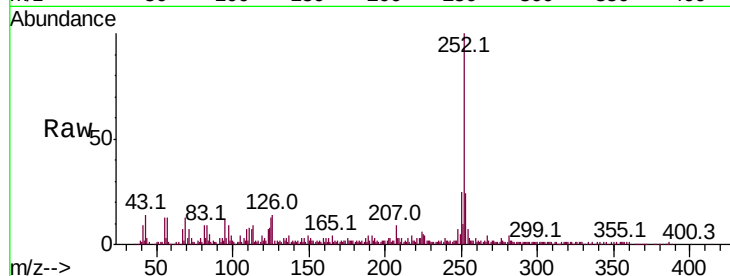




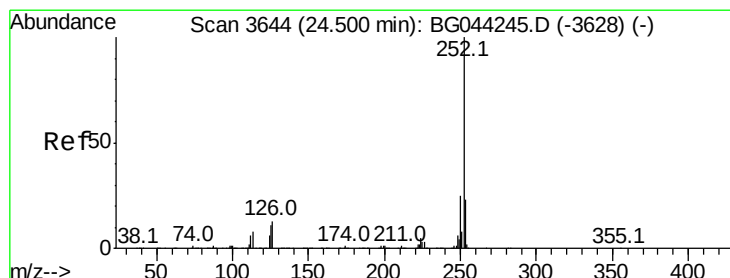
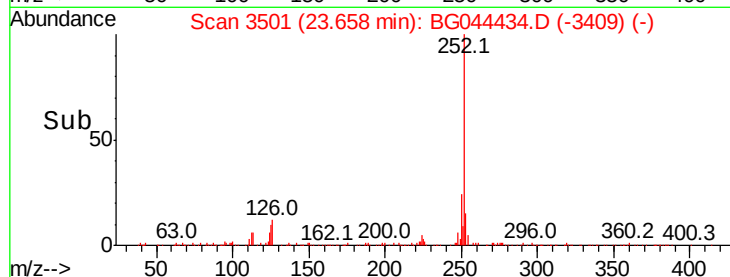
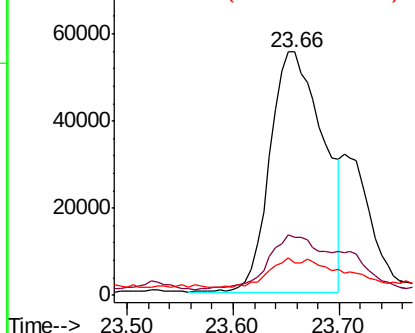
#88
Benzo(b)fluoranthene
Concen: 6.748 ng
RT: 23.66 min Scan# 3501
Delta R.T. 0.01 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

Instrument :
BNA_G
ClientSampleId :
OR-02-021220

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	19.2	28.8
125	13.4	8.4	12.6

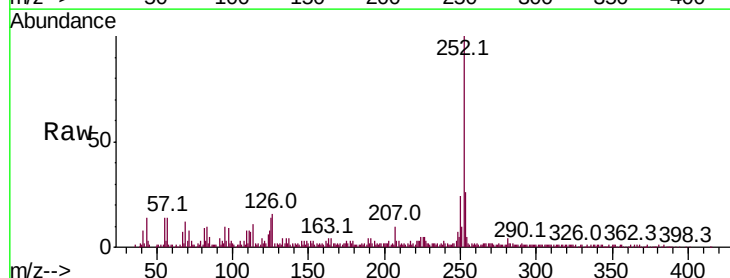


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

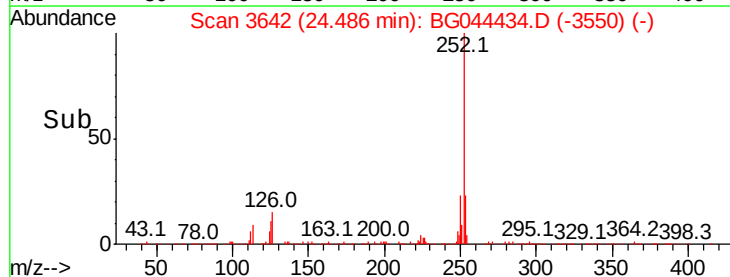
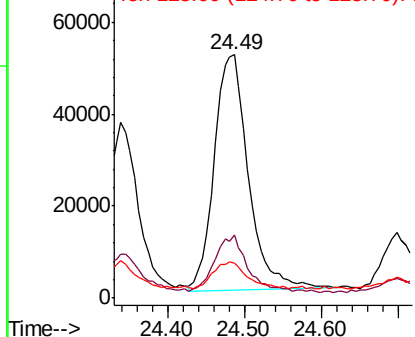


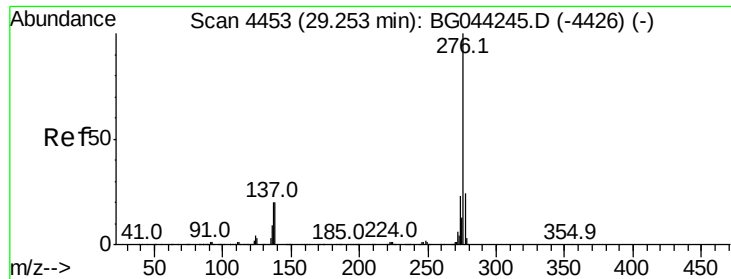
#90
Benzo(a)pyrene
Concen: 5.749 ng
RT: 24.49 min Scan# 3642
Delta R.T. 0.01 min
Lab File: BG044434.D
Acq: 14 Feb 2020 1:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	18.1	27.1
125	14.3	8.6	13.0



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





#92

Benzo(a,h,i)perylene

Concen: 2.292 ng

RT: 29.23 min Scan# 4449

Delta R.T. 0.02 min

Lab File: BG044434.D

Acq: 14 Feb 2020 1:52

Instrument :

BNA_G

ClientSampleId :

OR-02-021220

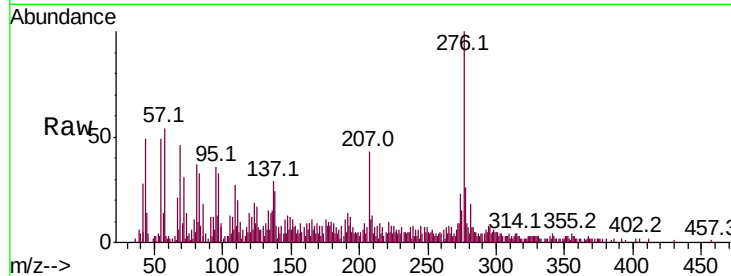
Tot Ion: 276 Resp: 61777

Ion Ratio Lower Upper

276 100

277 25.9 18.8 28.2

138 24.1 16.2 24.2



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

