

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082119\
 Data File : BM022221.D
 Acq On : 21 Aug 2019 10:12
 Operator : HP/JU
 Sample : K4264-21
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 REACTOR-3-C1-C4-(3)

Quant Time: Aug 21 14:15:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 20 02:18:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	34129	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	128842	20.00	ng	0.00
39) Acenaphthene-d10	14.22	164	85644	20.00	ng	0.00
64) Phenanthrene-d10	16.99	188	183718	20.00	ng	0.00
76) Chrysene-d12	21.19	240	170300	20.00	ng	0.00
87) Perylene-d12	23.39	264	173499	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	318389	166.24	ng	0.00
7) Phenol-d6	6.76	99	428657	168.07	ng	0.00
23) Nitrobenzene-d5	8.74	82	306679	115.77	ng	0.00
42) 2,4,6-Tribromophenol	15.73	330	267649	193.08	ng	0.00
45) 2-Fluorobiphenyl	12.83	172	686565	100.13	ng	0.00
79) Terphenyl-d14	19.63	244	1224737	104.79	ng	0.00

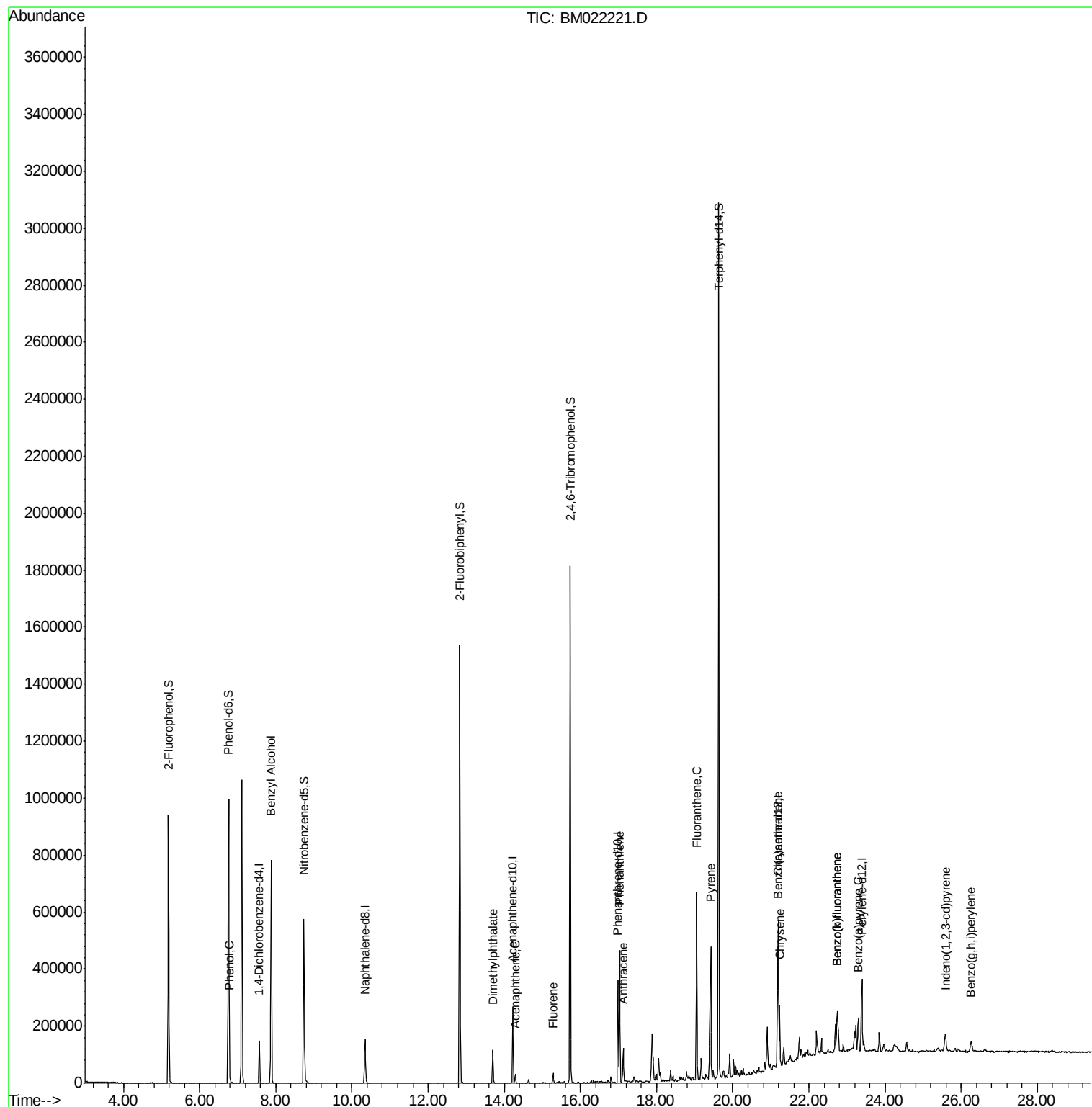
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.79	94	5900	2.185	ng	# 45
15) Benzyl Alcohol	7.88	79	5940	2.649	ng	# 44
50) Dimethylphthalate	13.70	163	72646	10.089	ng	99
52) Acenaphthene	14.29	154	12312	2.483	ng	95
58) Fluorene	15.29	166	14869	2.141	ng	97
71) Phenanthrene	17.03	178	242223	22.735	ng	98
72) Anthracene	17.12	178	62996	5.957	ng	99
75) Fluoranthene	19.06	202	350818	27.306	ng	98
78) Pyrene	19.42	202	272624	22.743	ng	99
81) Benzo(a)anthracene	21.18	228	141787	11.839	ng	96
83) Chrysene	21.23	228	108836	9.414	ng	96
86) Indeno(1,2,3-cd)pyrene	25.59	276	46833	3.616	ng	# 96
88) Benzo(b)fluoranthene	22.74	252	114412	9.876	ng	96
89) Benzo(k)fluoranthene	22.74	252	113772	10.047	ng	96
90) Benzo(a)pyrene	23.30	252	81898	7.763	ng	97
92) Benzo(g,h,i)perylene	26.26	276	39400	4.020	ng	95

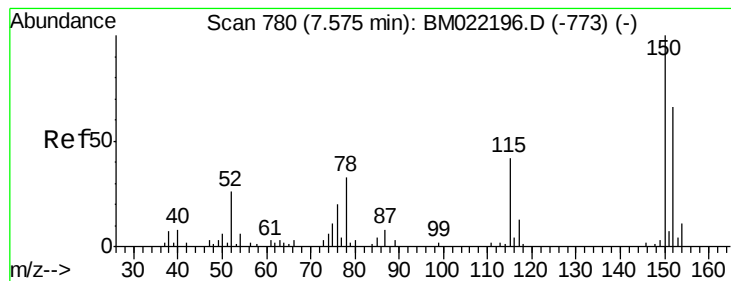
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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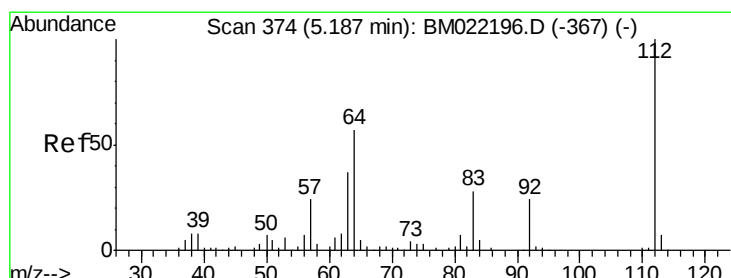
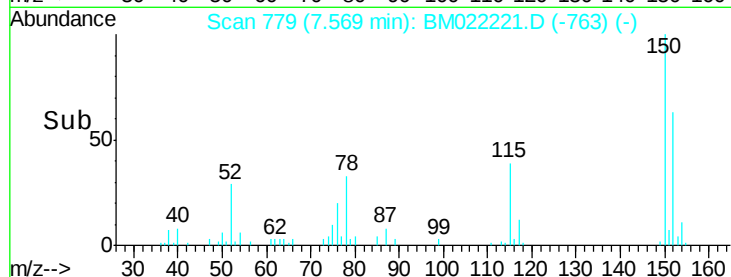
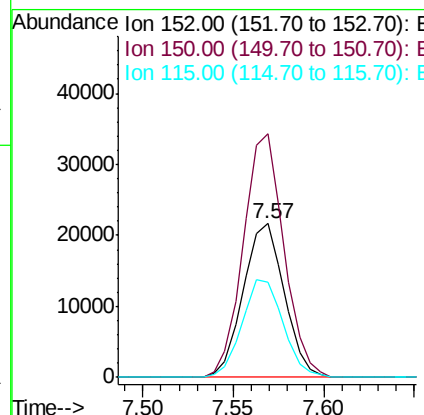
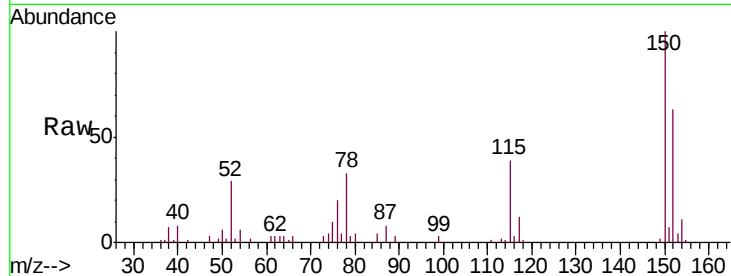




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.57 min Scan# 779
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

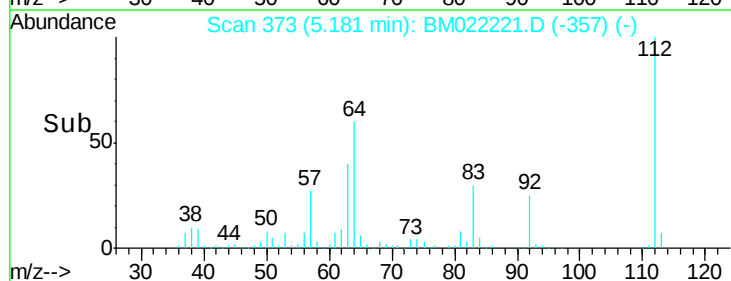
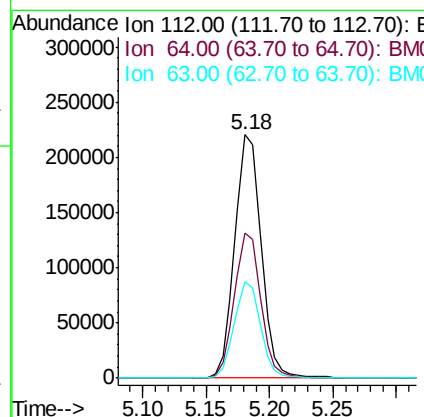
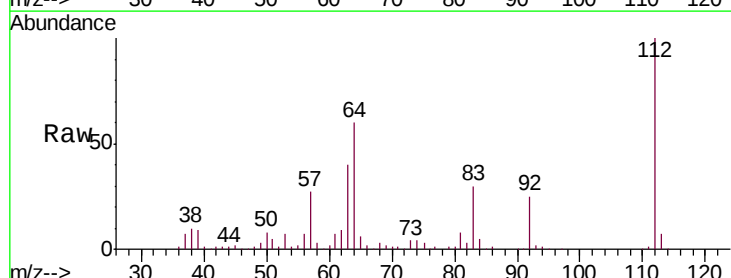
Instrument :
 BNA_M
 ClientSampleId :
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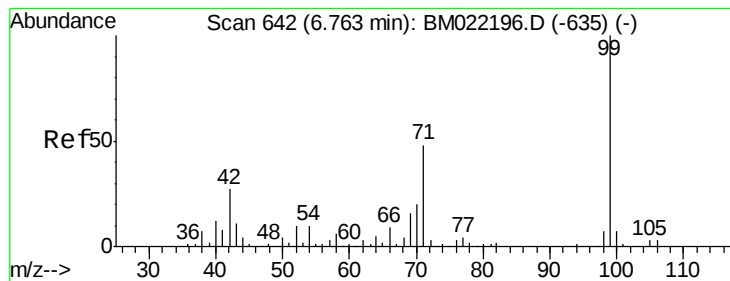
Tgt Ion:152 Resp: 34129
 Ion Ratio Lower Upper
 152 100
 150 158.7 123.1 184.7
 115 62.1 44.2 66.4



#5
 2-Fluorophenol
 Concen: 166.240 ng
 RT: 5.18 min Scan# 373
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Tgt Ion:112 Resp: 318389
 Ion Ratio Lower Upper
 112 100
 64 59.7 45.2 67.8
 63 39.8 23.5 35.3#





#7

Phenol-d6

Concen: 168.070 ng

RT: 6.76 min Scan# 642

Delta R.T. -0.00 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

ClientSampleId :

REACTOR-3-C1-C4-(3)

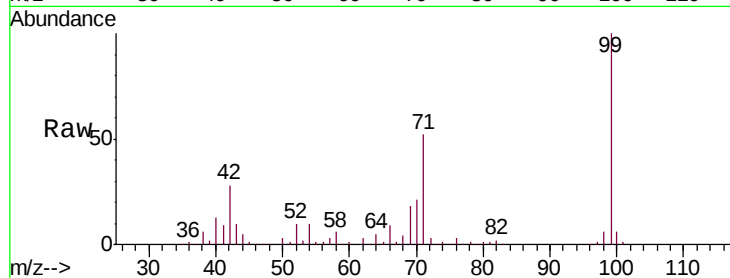
Tgt Ion: 99 Resp: 428657

Ion Ratio Lower Upper

99 100

42 28.2 13.5 20.3#

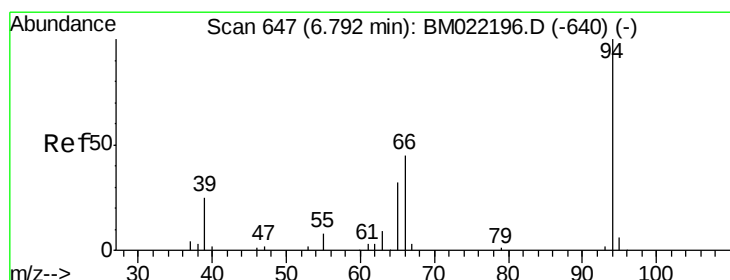
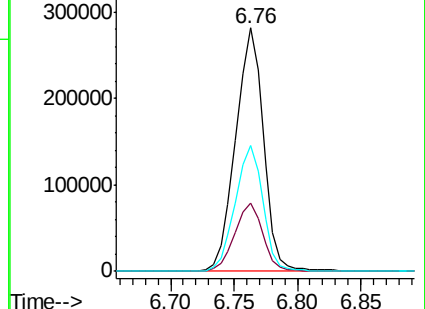
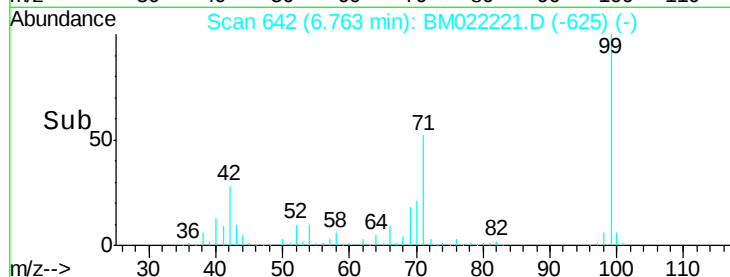
71 51.9 29.3 43.9#



Abundance Ion 99.00 (98.70 to 99.70): BM022221.D (-625) (-)

Ion 42.00 (41.70 to 42.70): BM022221.D (-625) (-)

Ion 71.00 (70.70 to 71.70): BM022221.D (-625) (-)



#10

Phenol

Concen: 2.185 ng

RT: 6.79 min Scan# 646

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

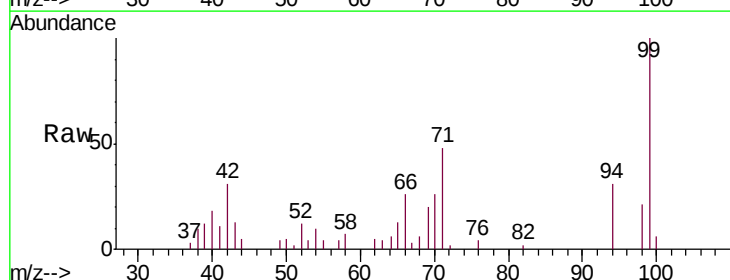
Tgt Ion: 94 Resp: 5900

Ion Ratio Lower Upper

94 100

65 41.5 8.7 48.7

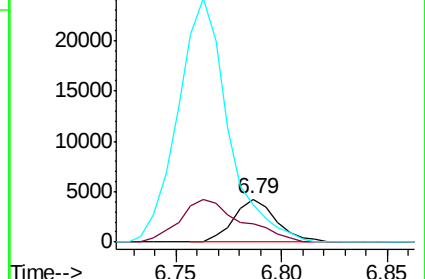
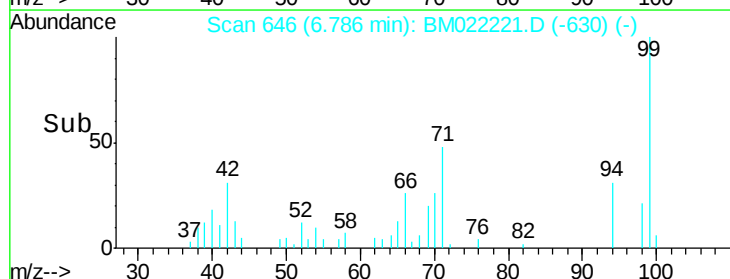
66 86.5 19.0 59.0#

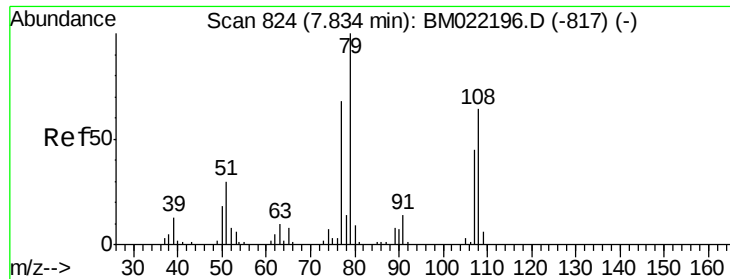


Abundance Ion 94.00 (93.70 to 94.70): BM022221.D (-630) (-)

Ion 65.00 (64.70 to 65.70): BM022221.D (-630) (-)

Ion 66.00 (65.70 to 66.70): BM022221.D (-630) (-)

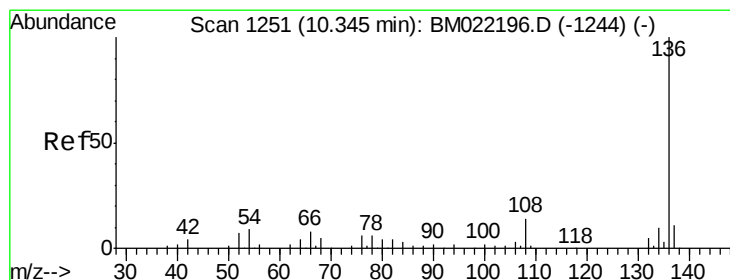
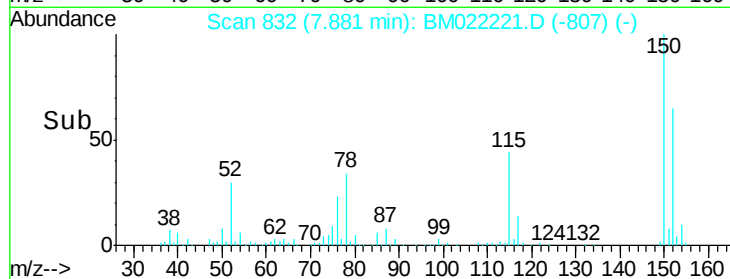
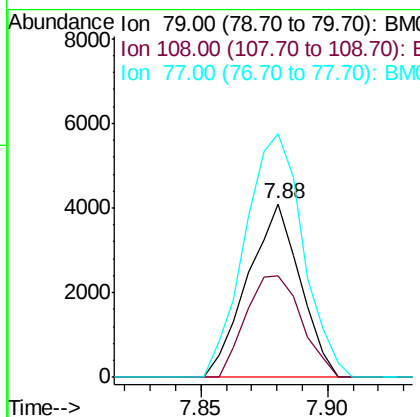
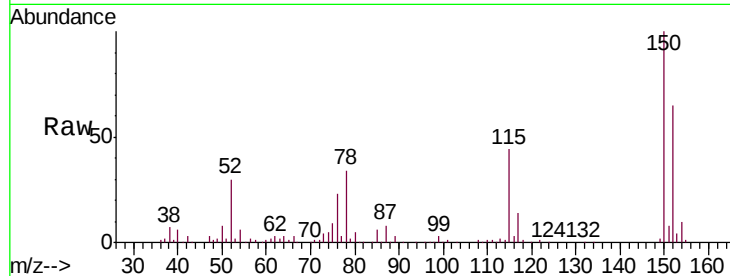




#15
Benzyl Alcohol
Concen: 2.649 ng
RT: 7.88 min Scan# 832
Delta R.T. 0.05 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

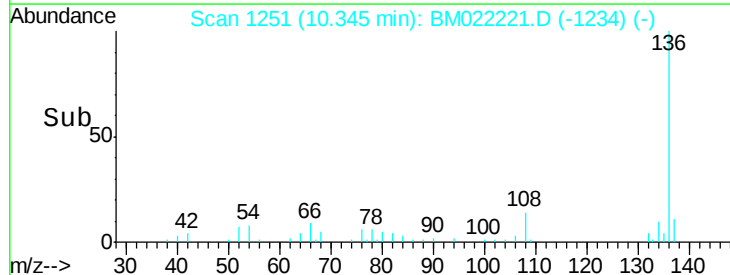
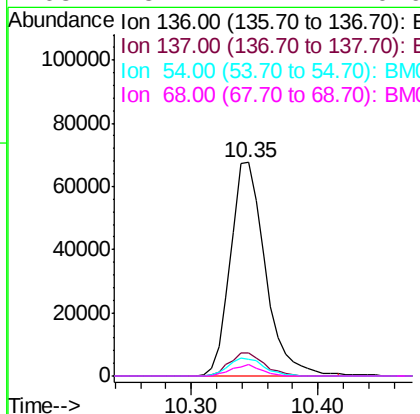
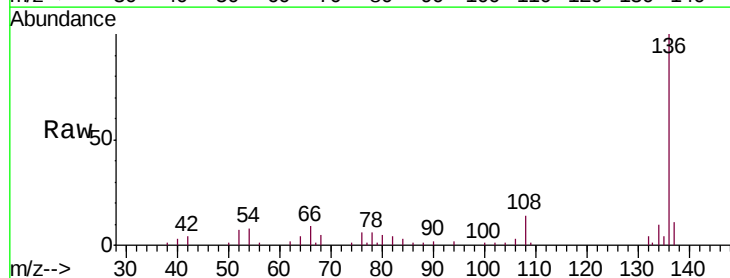
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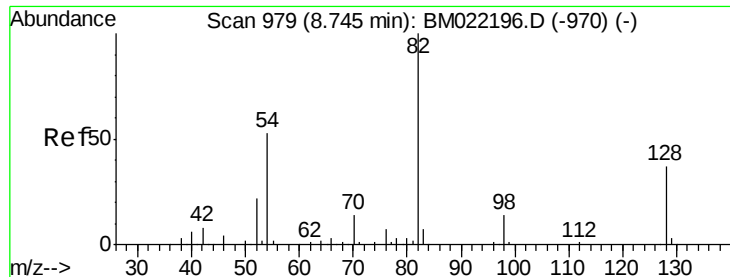
Tgt Ion: 79 Resp: 5940
Ion Ratio Lower Upper
79 100
108 58.7 58.4 87.6
77 140.2 50.1 75.1#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.35 min Scan# 1251
Delta R.T. -0.00 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion: 136 Resp: 128842
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 7.9 5.3 7.9
68 5.2 4.4 6.6

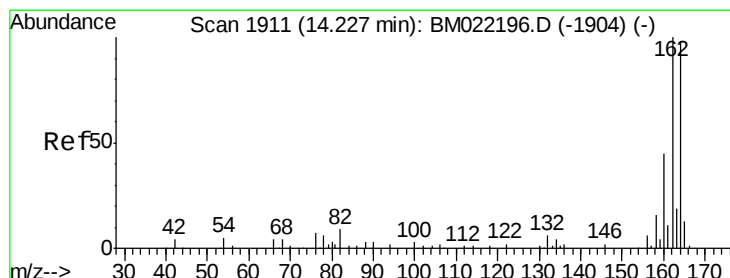
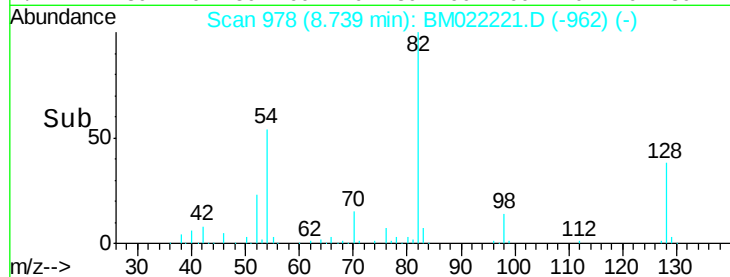
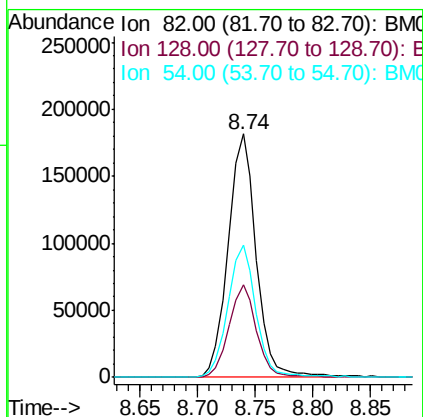
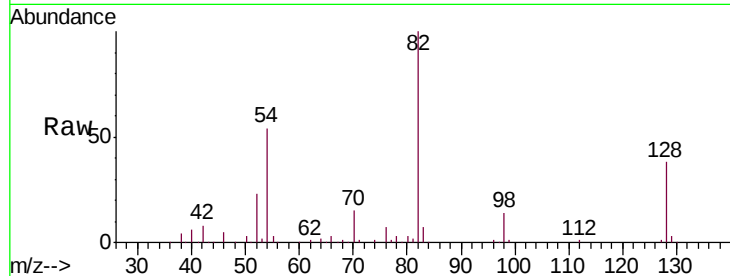




#23
 Nitrobenzene-d5
 Concen: 115.769 ng
 RT: 8.74 min Scan# 978
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

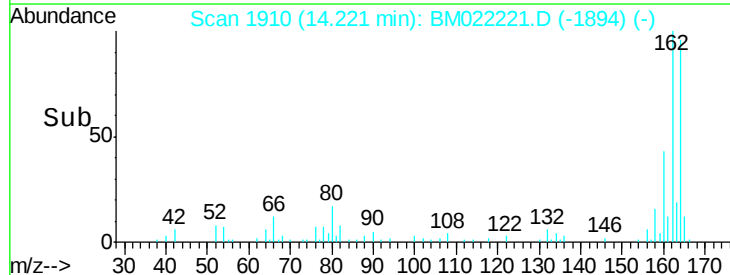
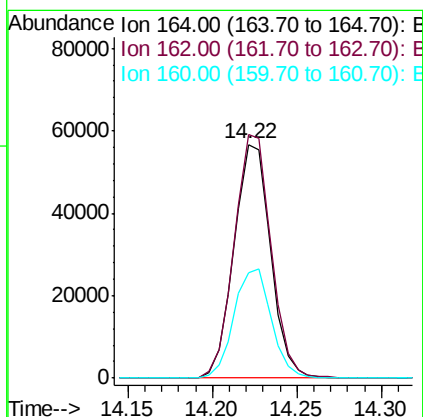
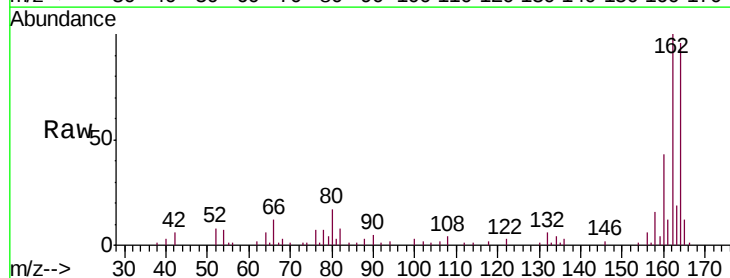
Instrument :
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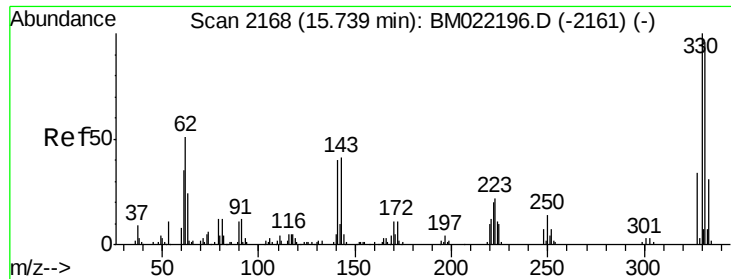
Tgt Ion	Ratio	Lower	Upper
82	100		
128	38.0	35.9	53.9
54	54.2	36.6	55.0



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.22 min Scan# 1910
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.1	123.1
160	45.2	37.1	55.7

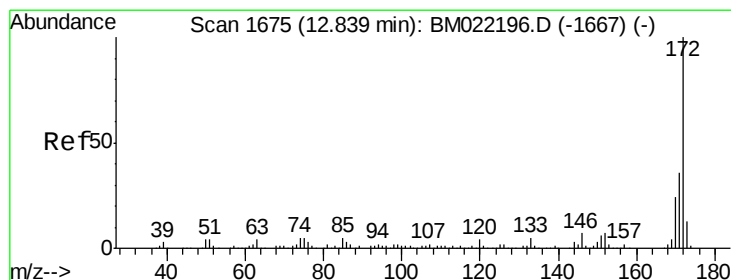
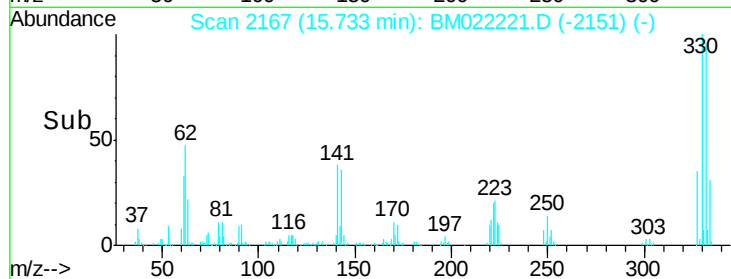
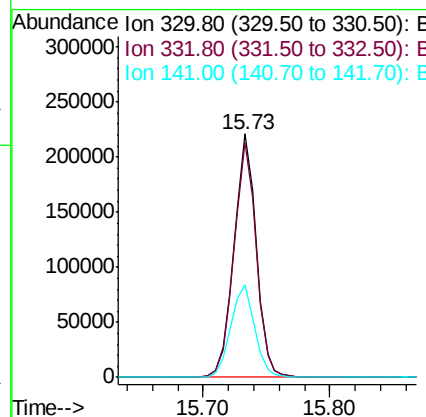
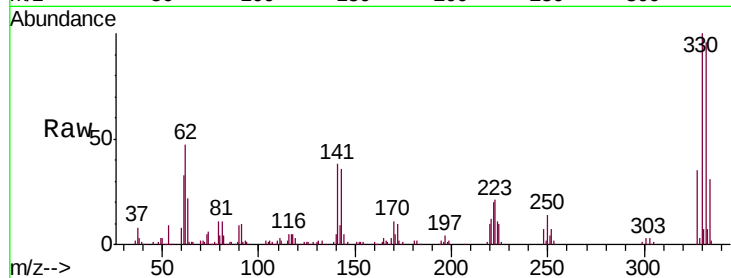




#42
 2,4,6-Tribromophenol
 Concen: 193.078 ng
 RT: 15.73 min Scan# 2167
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

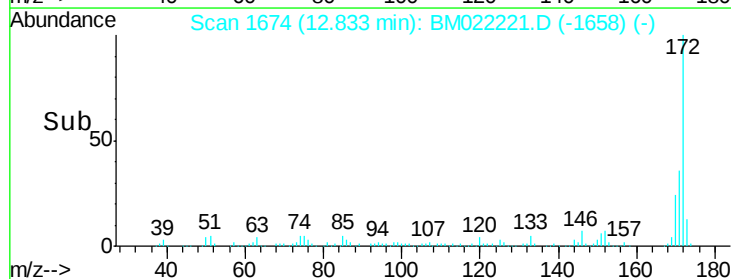
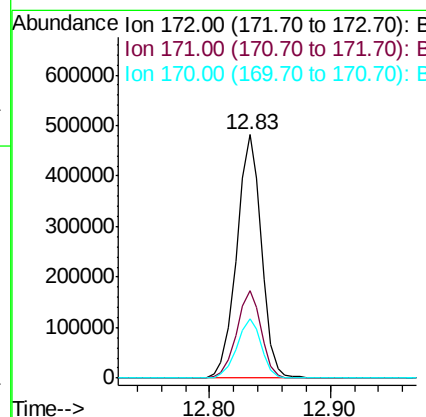
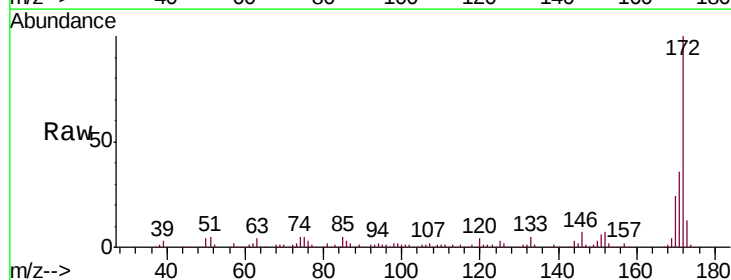
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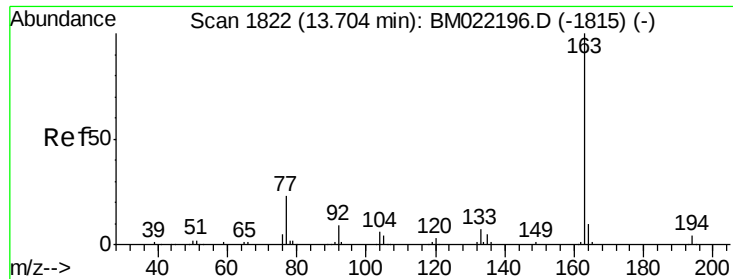
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.1	115.7
141	40.6	21.8	32.8#



#45
 2-Fluorobiphenyl
 Concen: 100.126 ng
 RT: 12.83 min Scan# 1674
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	24.2	18.7	28.1

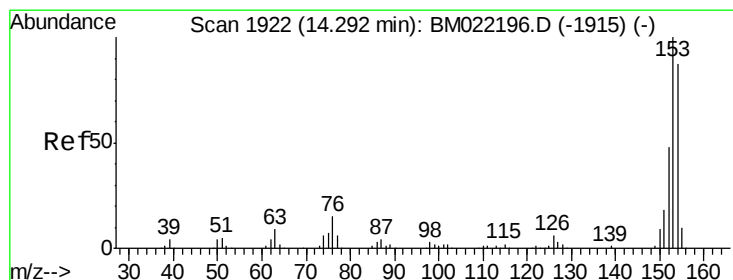
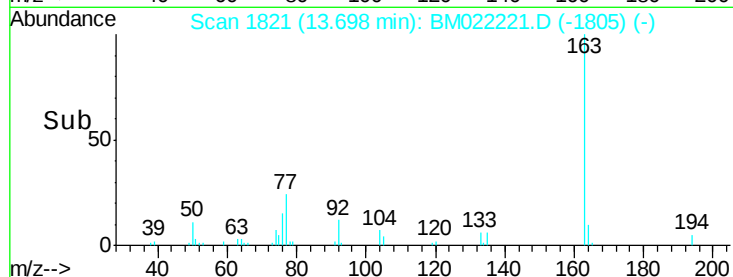
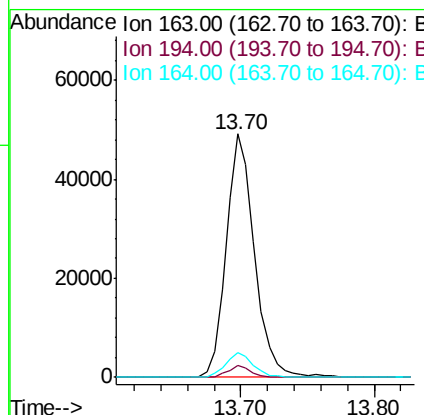
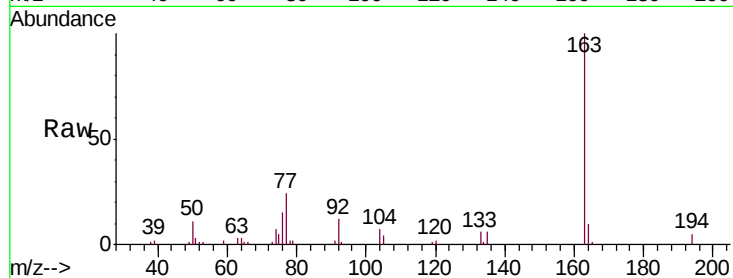




#50
Dimethylphthalate
Concen: 10.089 ng
RT: 13.70 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

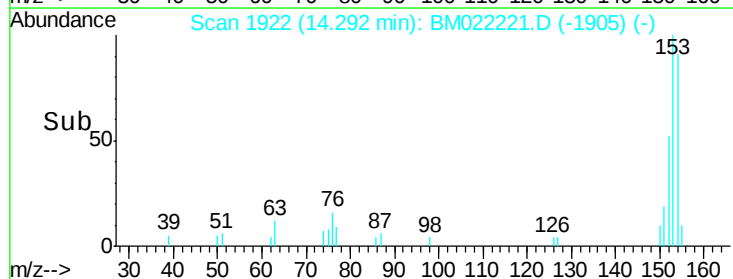
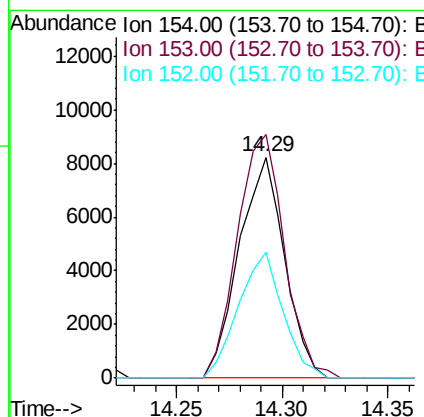
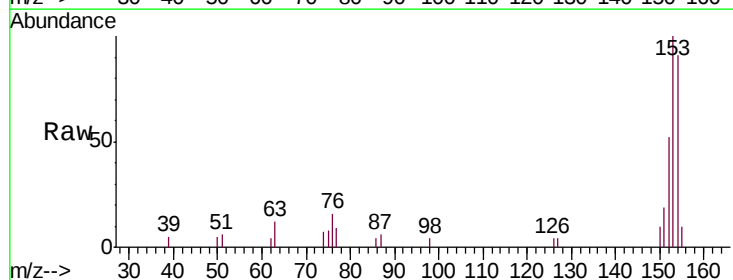
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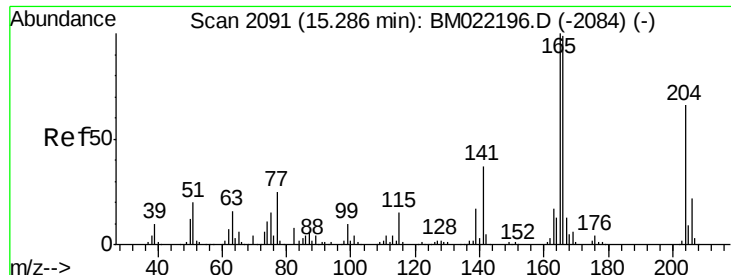
Tgt Ion:163 Resp: 72646
Ion Ratio Lower Upper
163 100
194 4.7 3.4 5.2
164 9.9 8.2 12.2



#52
Acenaphthene
Concen: 2.483 ng
RT: 14.29 min Scan# 1922
Delta R.T. -0.00 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion:154 Resp: 12312
Ion Ratio Lower Upper
154 100
153 110.1 91.5 137.3
152 57.0 42.3 63.5





#58

Fluorene

Concen: 2.141 ng

RT: 15.29 min Scan# 2091

Delta R.T. -0.00 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

ClientSampleId :

REACTOR-3-C1-C4-(3)

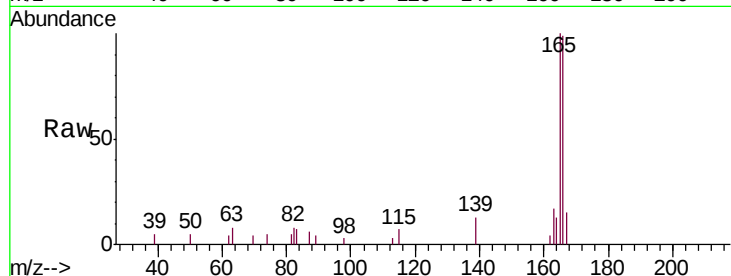
Tgt Ion:166 Resp: 14869

Ion Ratio Lower Upper

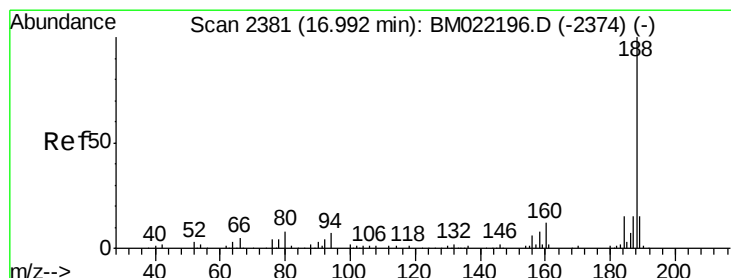
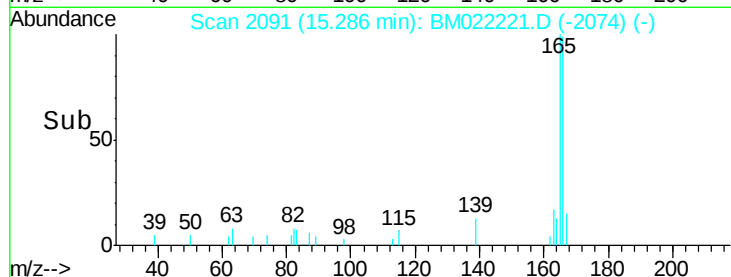
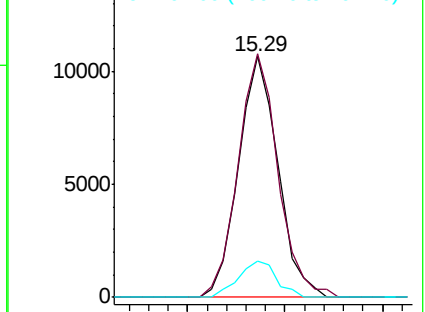
166 100

165 101.0 78.6 117.8

167 14.9 10.9 16.3



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: 16.99 min Scan# 2380

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

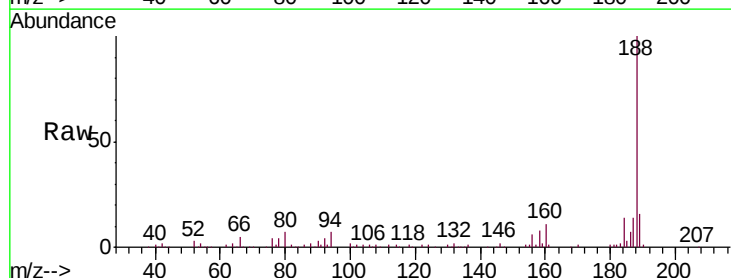
Tgt Ion:188 Resp: 183718

Ion Ratio Lower Upper

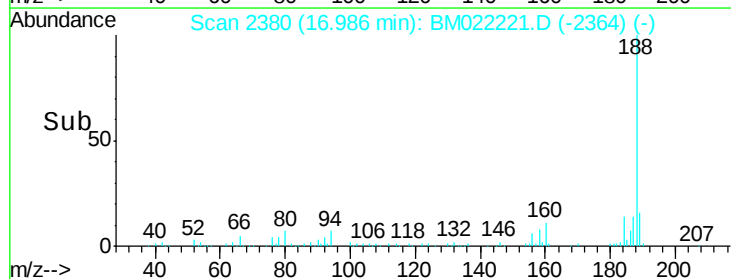
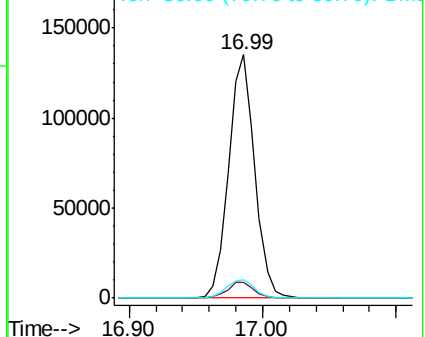
188 100

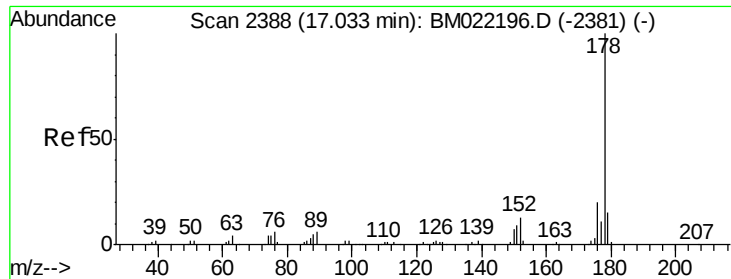
94 6.6 5.8 8.8

80 7.5 6.9 10.3



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM0
Ion 80.00 (79.70 to 80.70): BM0

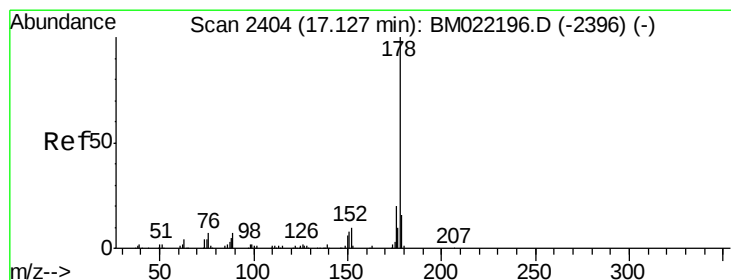
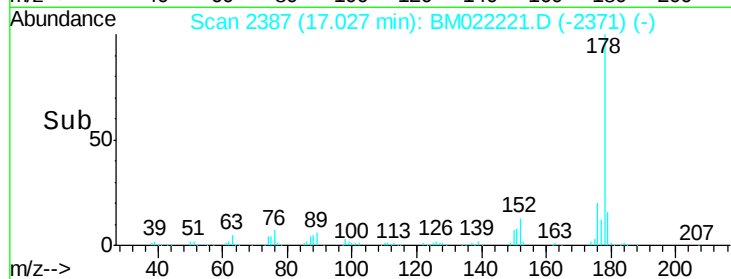
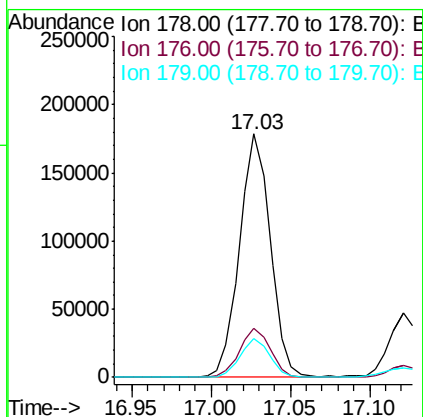
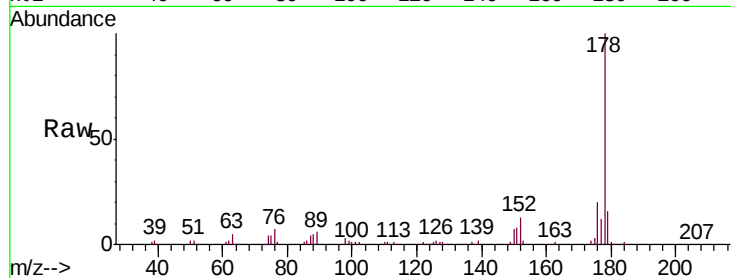




#71
Phenanthrene
Concen: 22.735 ng
RT: 17.03 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

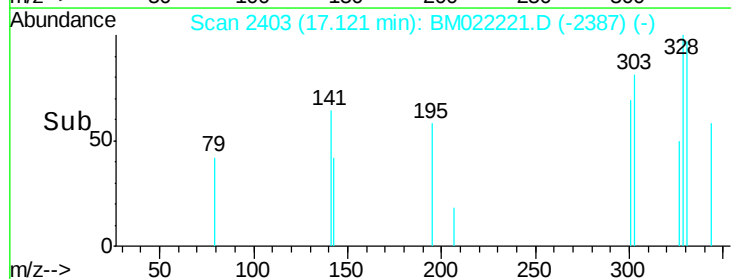
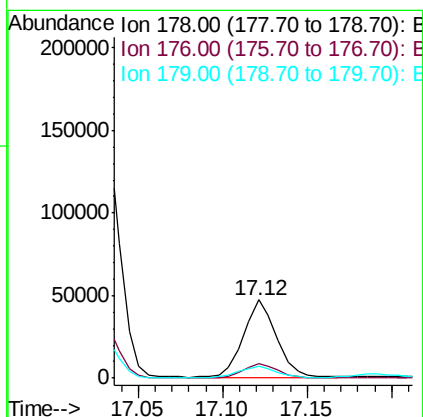
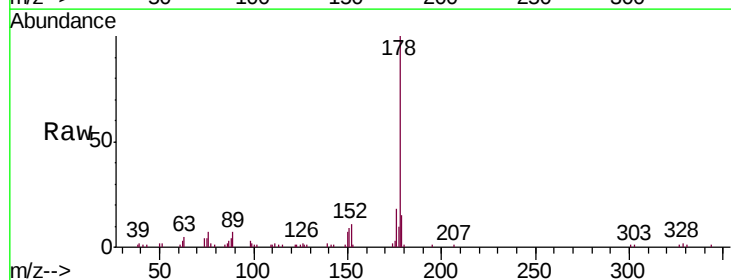
Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

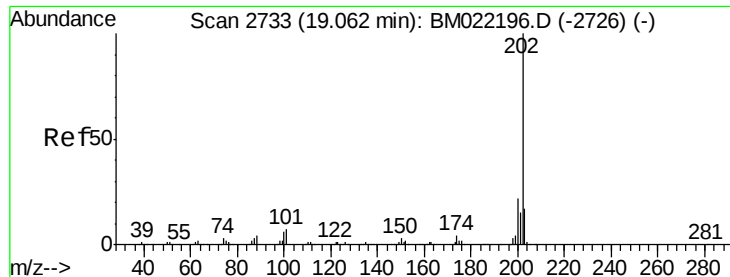
Tgt Ion:178 Resp: 242223
Ion Ratio Lower Upper
178 100
176 20.2 15.2 22.8
179 15.9 12.2 18.4



#72
Anthracene
Concen: 5.957 ng
RT: 17.12 min Scan# 2403
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion:178 Resp: 62996
Ion Ratio Lower Upper
178 100
176 18.1 14.7 22.1
179 15.4 12.2 18.2





#75

Fluoranthene

Concen: 27.306 ng

RT: 19.06 min Scan# 2732

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

ClientSampleId :

REACTOR-3-C1-C4-(3)

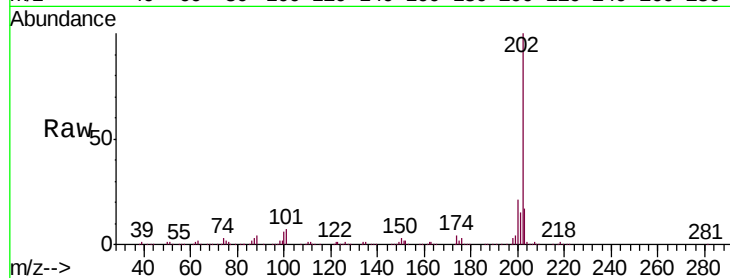
Tgt Ion:202 Resp: 350818

Ion Ratio Lower Upper

202 100

101 6.8 0.0 28.2

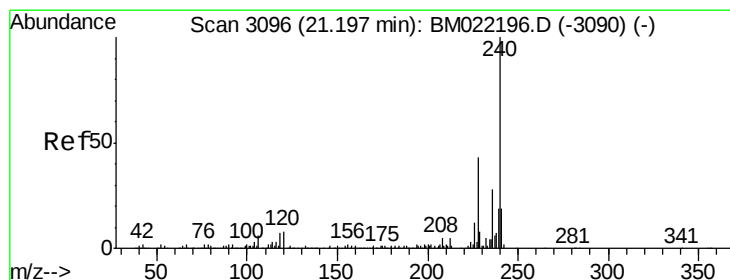
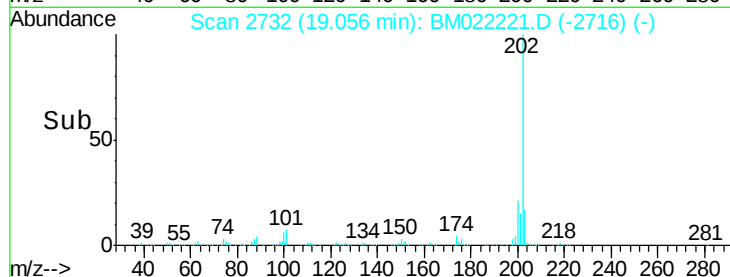
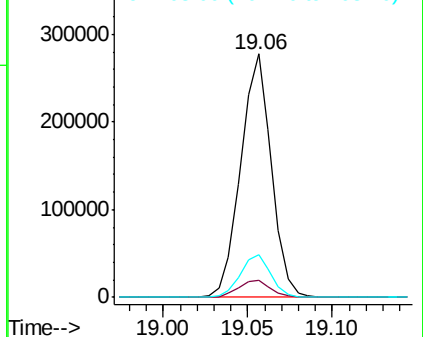
203 17.4 0.0 37.6



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: 21.19 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

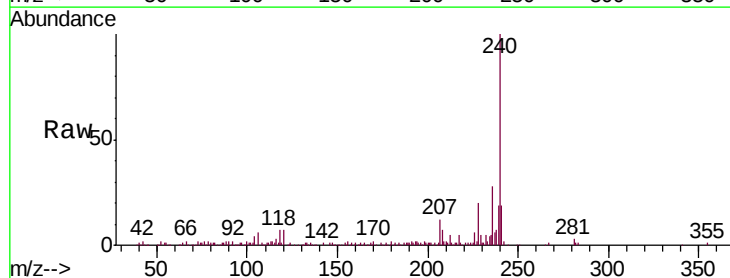
Tgt Ion:240 Resp: 170300

Ion Ratio Lower Upper

240 100

120 7.0 6.9 10.3

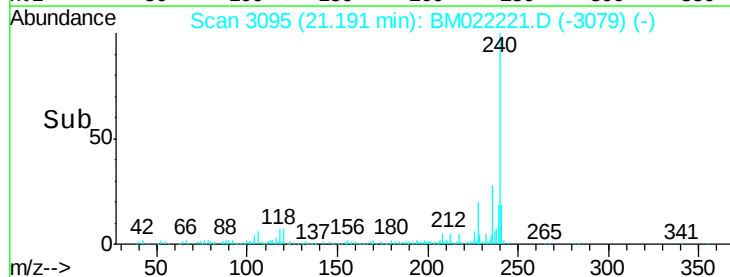
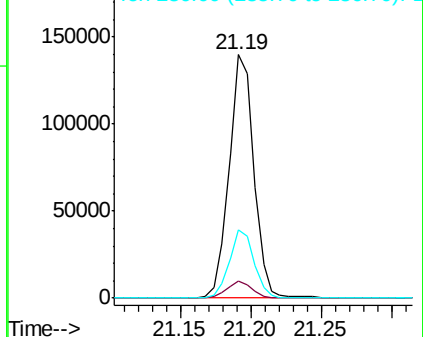
236 27.9 20.4 30.6

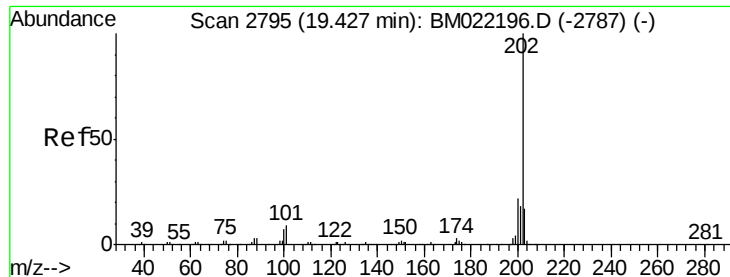


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 22.743 ng

RT: 19.42 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

ClientSampleId :

REACTOR-3-C1-C4-(3)

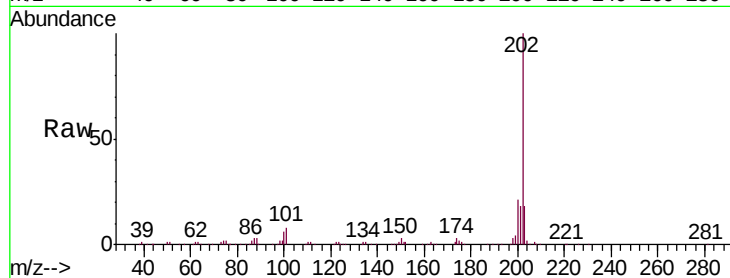
Tgt Ion:202 Resp: 272624

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

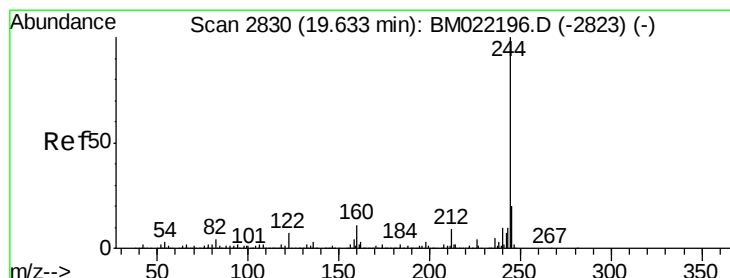
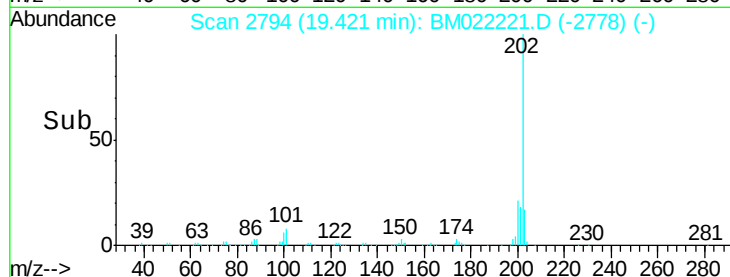
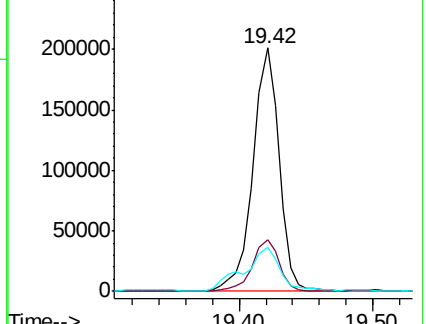
203 18.0 14.0 21.0



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: 104.788 ng

RT: 19.63 min Scan# 2829

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

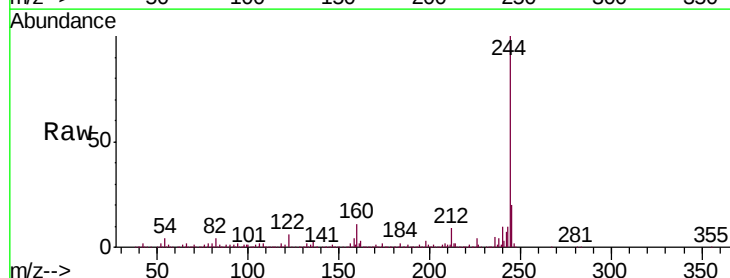
Tgt Ion:244 Resp: 1224737

Ion Ratio Lower Upper

244 100

212 8.5 5.3 7.9#

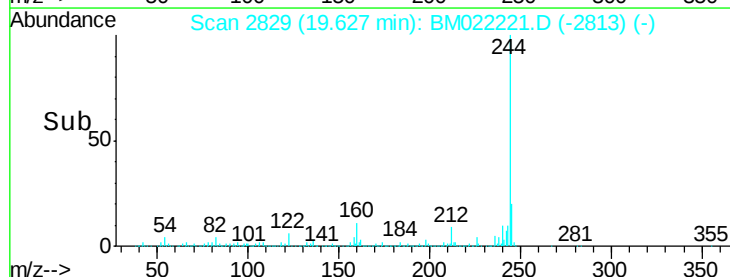
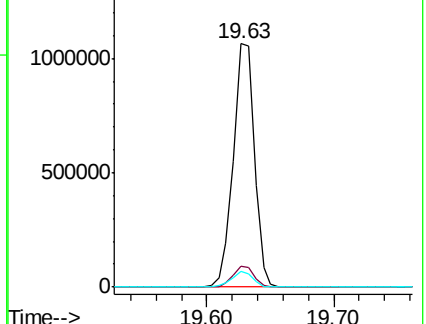
122 6.4 6.6 9.8#

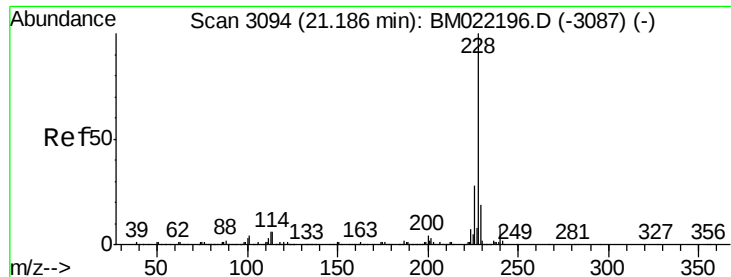


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

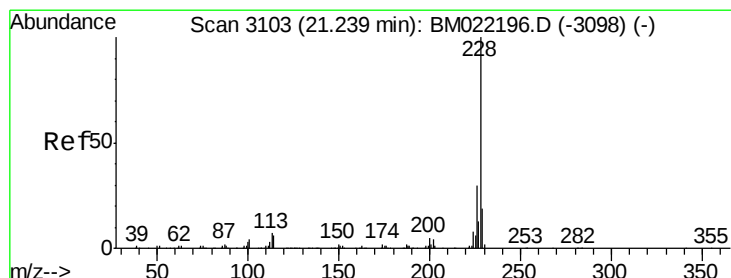
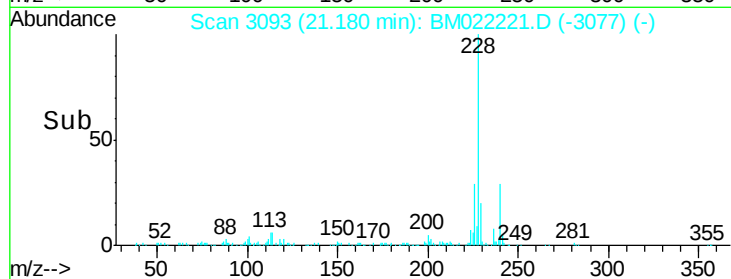
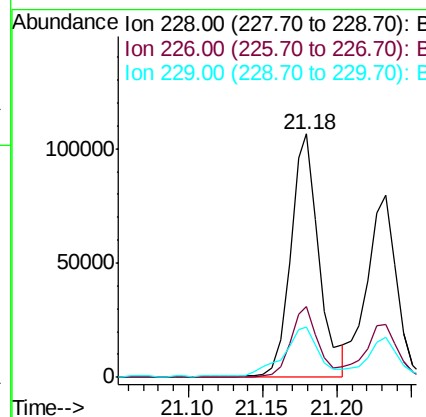
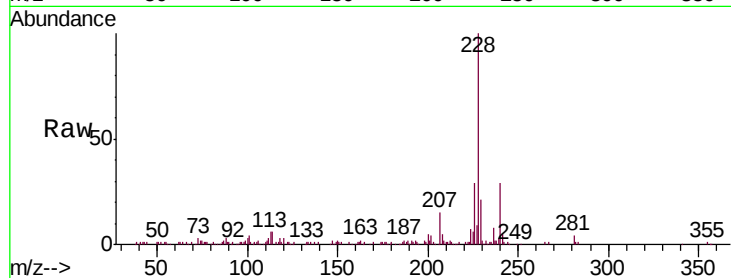




#81
Benzo(a)anthracene
Concen: 11.839 ng
RT: 21.18 min Scan# 3093
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

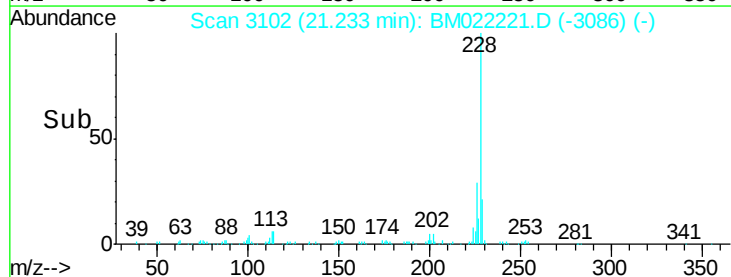
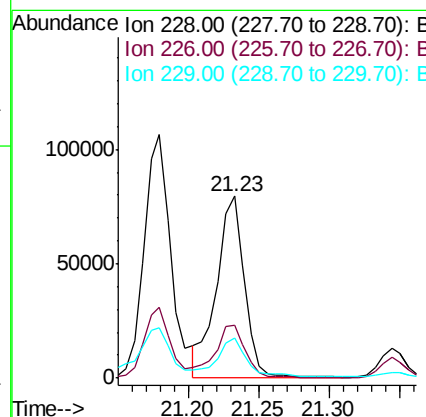
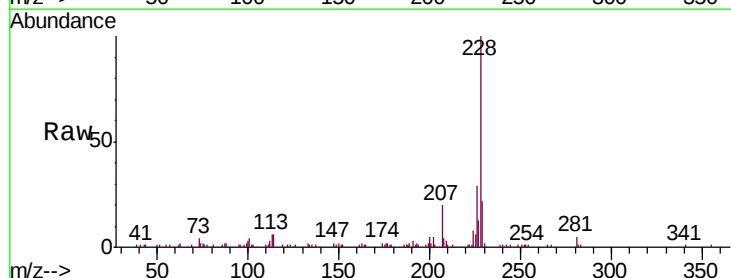
Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

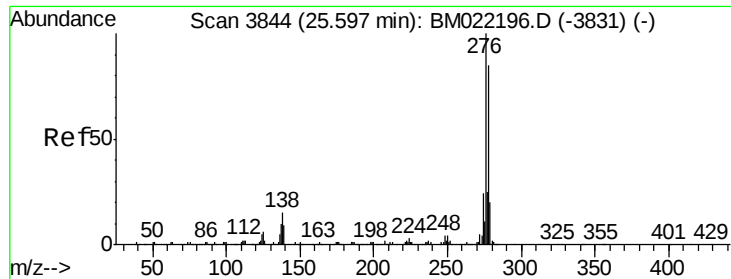
Tgt Ion:228 Resp: 141787
Ion Ratio Lower Upper
228 100
226 29.1 21.6 32.4
229 20.7 15.5 23.3



#83
Chrysene
Concen: 9.414 ng
RT: 21.23 min Scan# 3102
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion:228 Resp: 108836
Ion Ratio Lower Upper
228 100
226 28.9 24.1 36.1
229 22.3 15.6 23.4

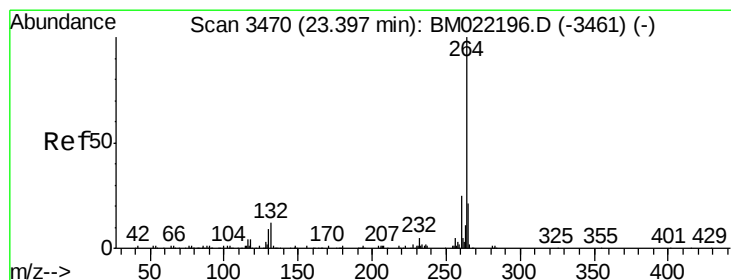
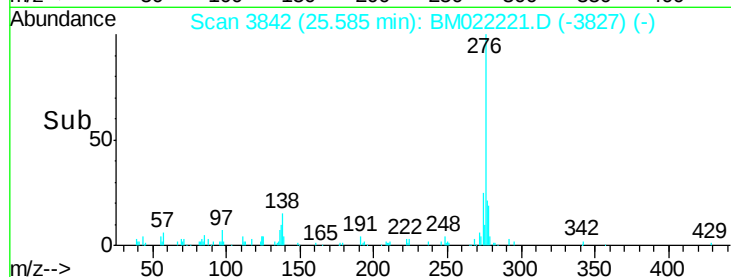
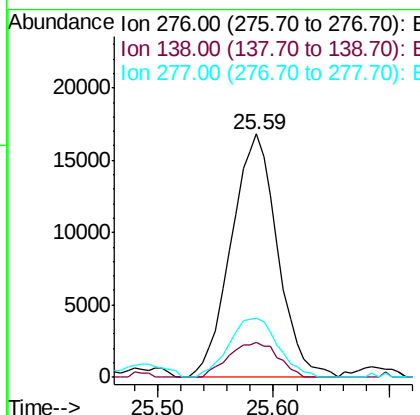
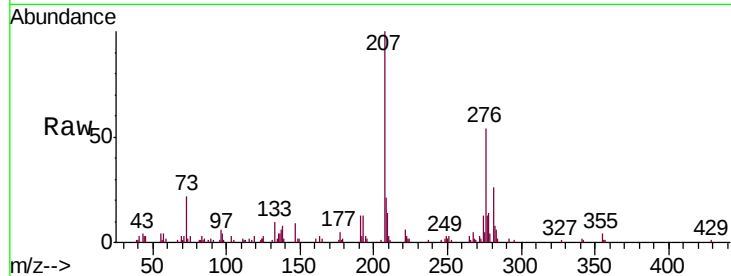




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.616 ng
 RT: 25.59 min Scan# 3842
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

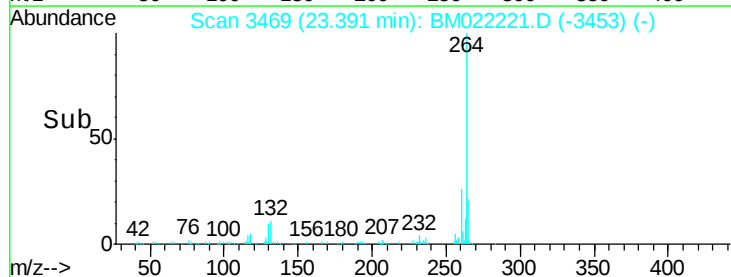
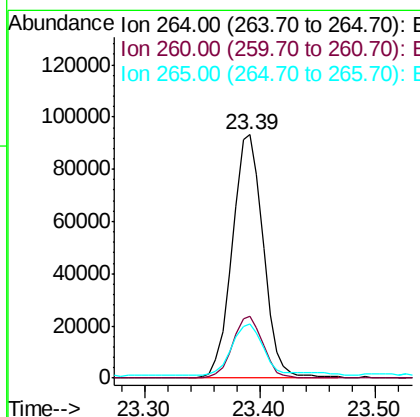
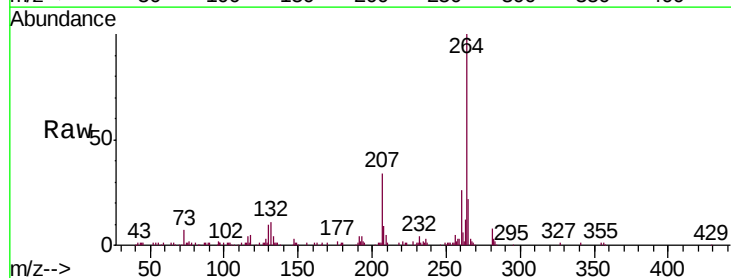
Instrument :
 BNA_M
 ClientSampleId :
 REACTOR-3-C1-C4-(3)

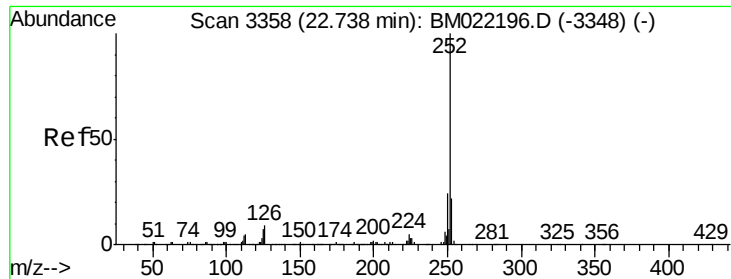
Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.3	15.4	23.0#
277	25.6	20.4	30.6



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.39 min Scan# 3469
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.0	28.4
265	22.3	17.7	26.5

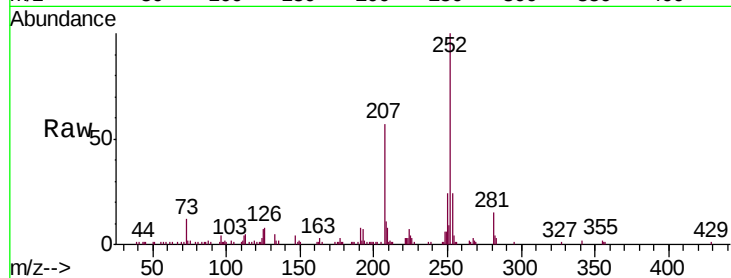




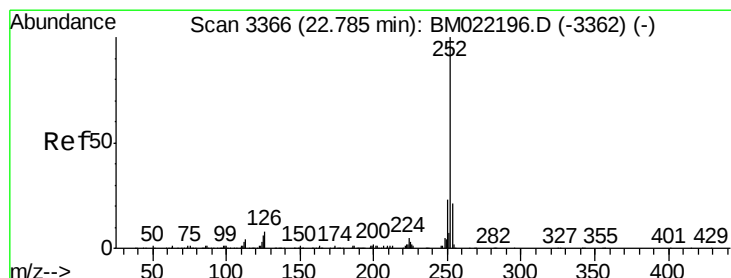
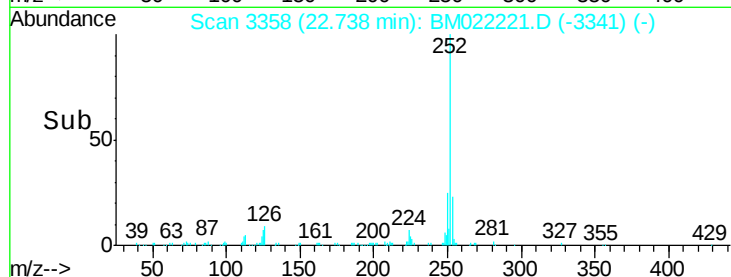
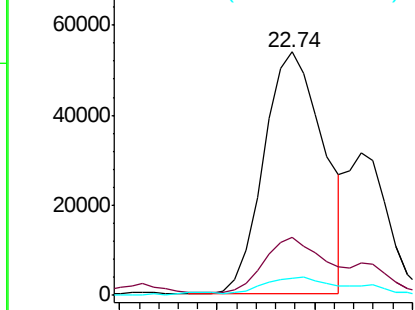
#88
Benzo(b)fluoranthene
Concen: 9.876 ng
RT: 22.74 min Scan# 3358
Delta R.T. -0.00 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tgt Ion:252 Resp: 114412
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.0
125 6.9 5.9 8.9

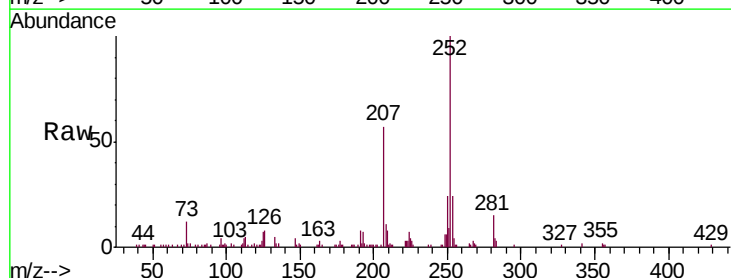


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

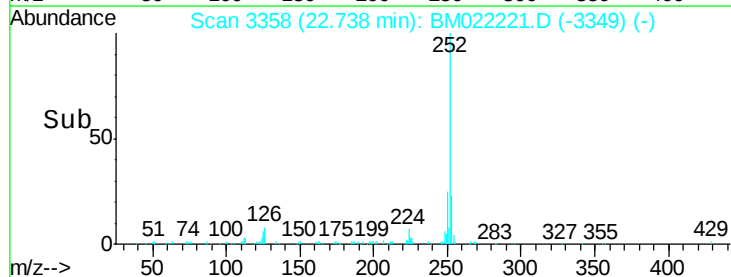
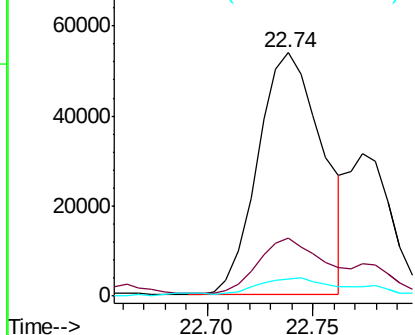


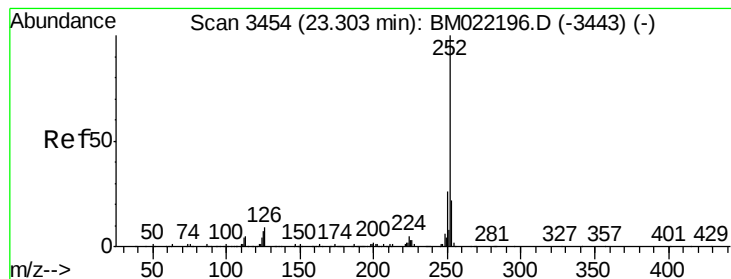
#89
Benzo(k)fluoranthene
Concen: 10.047 ng
RT: 22.74 min Scan# 3358
Delta R.T. -0.05 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion:252 Resp: 113772
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 6.9 5.9 8.9



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





#90

Benzo(a)pyrene

Concen: 7.763 ng

RT: 23.30 min Scan# 3453

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

ClientSampleId :

REACTOR-3-C1-C4-(3)

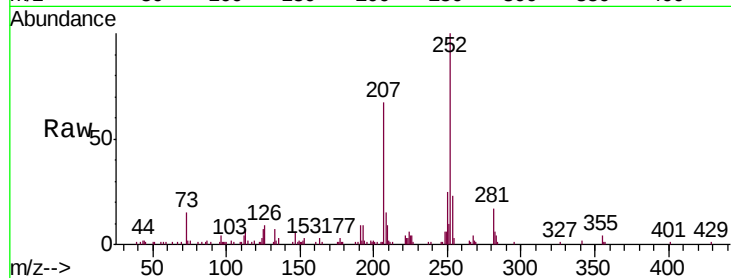
Tgt Ion:252 Resp: 81898

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

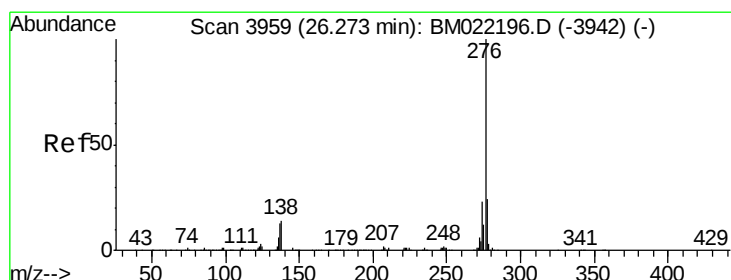
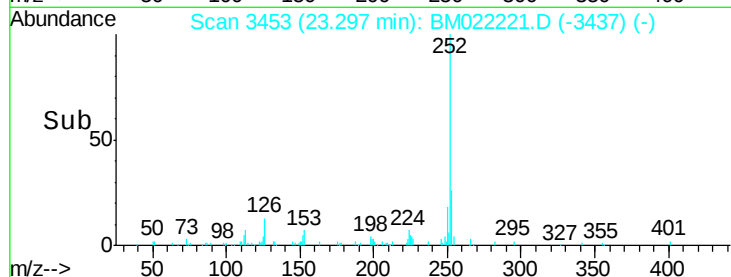
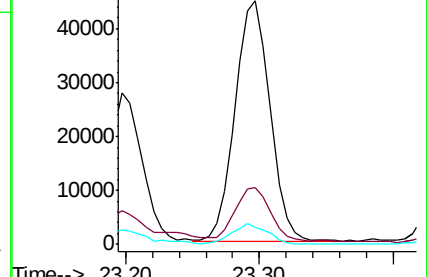
125 6.8 6.6 10.0



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(g,h,i)perylene

Concen: 4.020 ng

RT: 26.26 min Scan# 3956

Delta R.T. -0.02 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

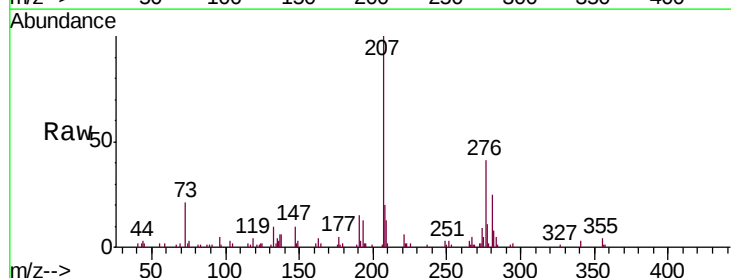
Tgt Ion:276 Resp: 39400

Ion Ratio Lower Upper

276 100

277 26.6 18.8 28.2

138 15.3 13.1 19.7



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

