

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120321\
 Data File : BM033303.D
 Acq On : 04 Dec 2021 01:13
 Operator : CG/JU
 Sample : M4909-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 HG-SOIL-PILE

Quant Time: Dec 06 00:52:22 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM112421.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 24 15:16:33 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

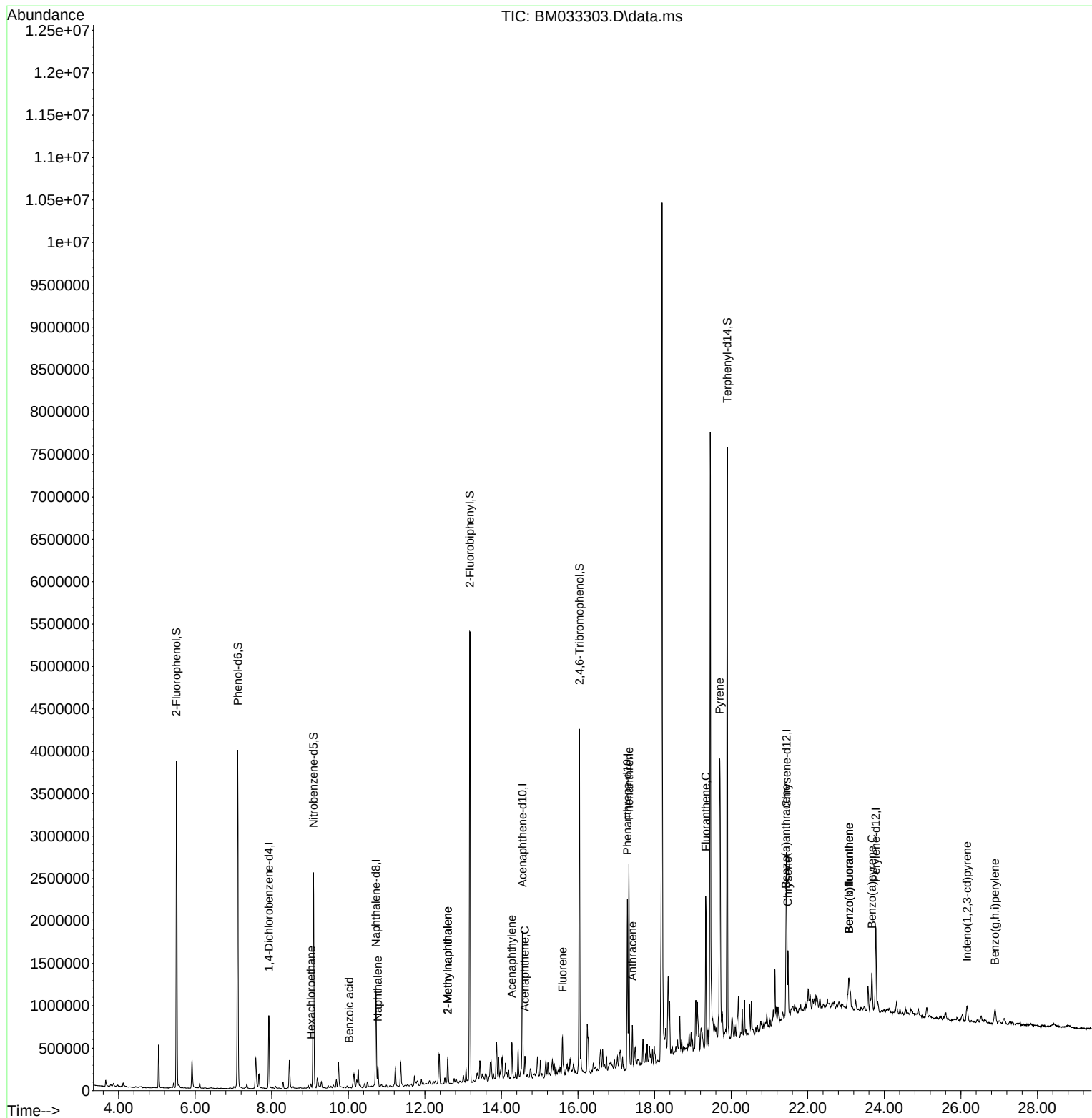
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.925	152	215638	20.000	ng	-0.01
21) Naphthalene-d8	10.725	136	918706	20.000	ng	#-0.01
39) Acenaphthene-d10	14.548	164	587029	20.000	ng	-0.01
64) Phenanthrene-d10	17.289	188	1145016	20.000	ng	# 0.00
76) Chrysene-d12	21.447	240	756869	20.000	ng	# 0.00
86) Perylene-d12	23.777	264	721898	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.513	112	1542727	118.144	ng	0.00
7) Phenol-d6	7.113	99	2137501	122.224	ng	0.02
23) Nitrobenzene-d5	9.089	82	1480825	74.828	ng	-0.01
42) 2,4,6-Tribromophenol	16.036	330	601782	94.041	ng	0.00
45) 2-Fluorobiphenyl	13.177	172	2715561	65.240	ng	0.00
79) Terphenyl-d14	19.900	244	3203887	83.704	ng	0.00
Target Compounds						
					Qvalue	
9) Benzaldehyde	7.072	77	3320	Below Cal	#	1
18) Hexachloroethane	9.025	117	14776	2.490	ng	# 38
31) Naphthalene	10.772	128	181168	3.738	ng	98
32) Benzoic acid	10.025	122	188	5.239	ng	# 1
37) 2-Methylnaphthalene	12.595	142	130529	3.956	ng	97
38) 1-Methylnaphthalene	12.595	142	130699	4.060	ng	94
49) Acenaphthylene	14.271	152	246744	4.685	ng	97
52) Acenaphthene	14.613	154	76193	2.354	ng	99
58) Fluorene	15.595	166	202038	4.794	ng	99
71) Phenanthrene	17.330	178	1344779	21.367	ng	99
72) Anthracene	17.418	178	302104	4.976	ng	98
75) Fluoranthene	19.336	202	954857	13.202	ng	94
78) Pyrene	19.700	202	1546920	31.049	ng	99
81) Benzo(a)anthracene	21.430	228	401683	8.269	ng	94
83) Chrysene	21.483	228	408352	8.629	ng	98
87) Indeno(1,2,3-cd)pyrene	26.159	276	174036	3.511	ng	99
88) Benzo(b)fluoranthene	23.077	252	434973	9.921	ng	# 94
89) Benzo(k)fluoranthene	23.077	252	434973	9.887	ng	# 93
90) Benzo(a)pyrene	23.677	252	304577	8.294	ng	# 97
92) Benzo(g,h,i)perylene	26.888	276	210961	5.096	ng	# 94

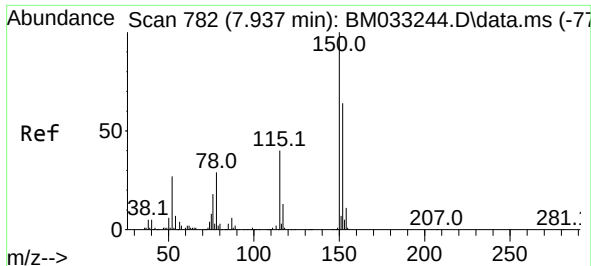
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120321\
Data File : BM033303.D
Acq On : 04 Dec 2021 01:13
Operator : CG/JU
Sample : M4909-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

Quant Time: Dec 06 00:52:22 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM112421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 24 15:16:33 2021
Response via : Initial Calibration

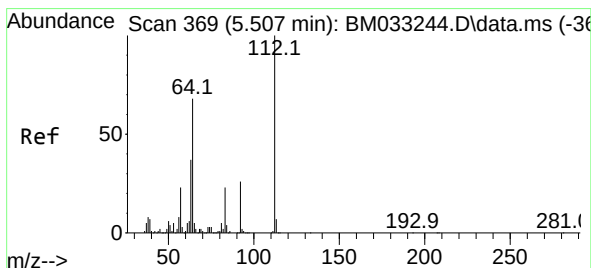
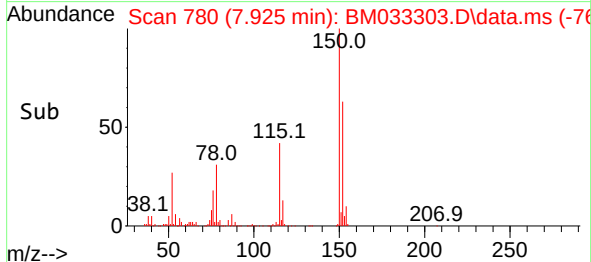
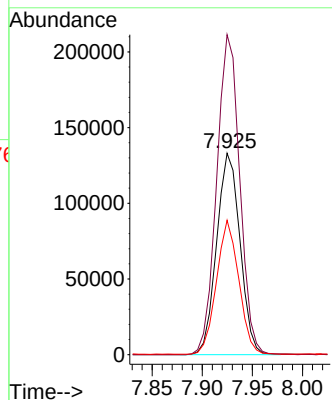
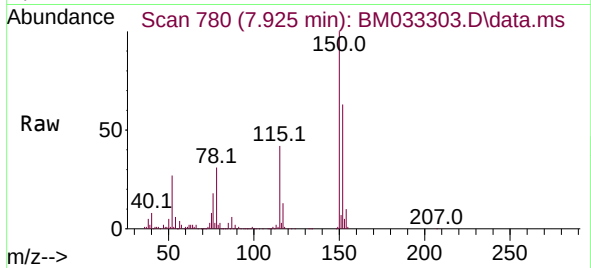




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.925 min Scan# 71
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

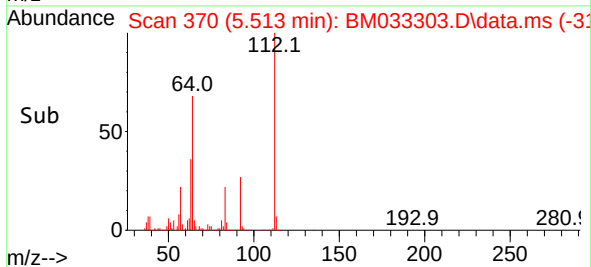
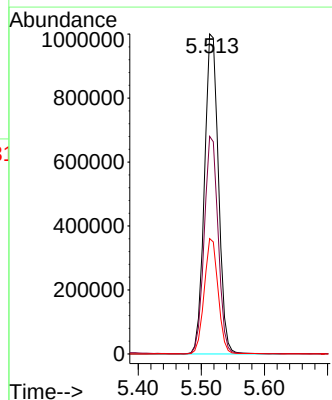
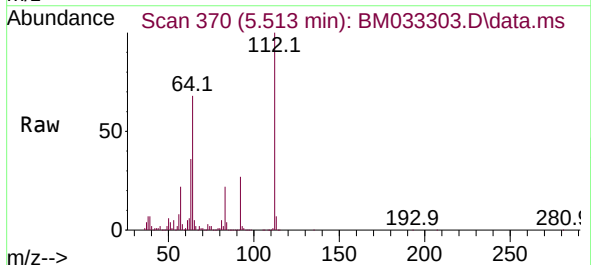
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

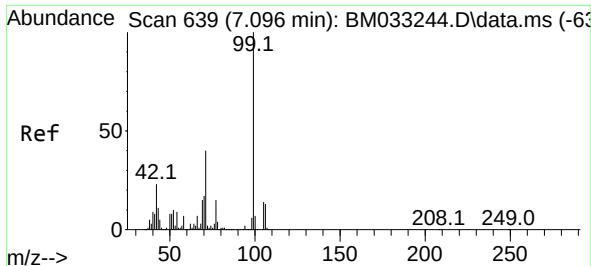
Tgt Ion:152 Resp: 215638
Ion Ratio Lower Upper
152 100
150 158.8 122.4 183.6
115 66.7 53.8 80.8



#5
2-Fluorophenol
Concen: 118.144 ng
RT: 5.513 min Scan# 370
Delta R.T. 0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:112 Resp: 1542727
Ion Ratio Lower Upper
112 100
64 68.0 53.7 80.5
63 36.0 33.9 50.9

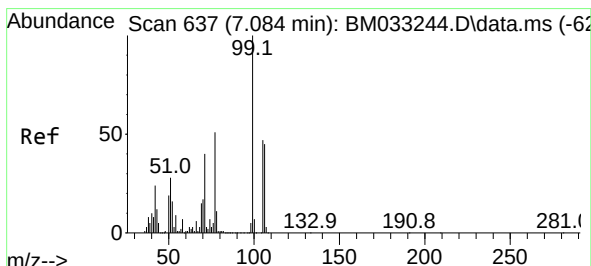
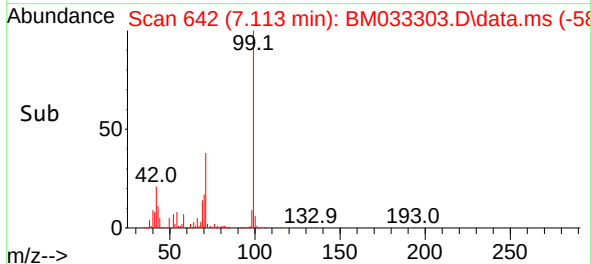
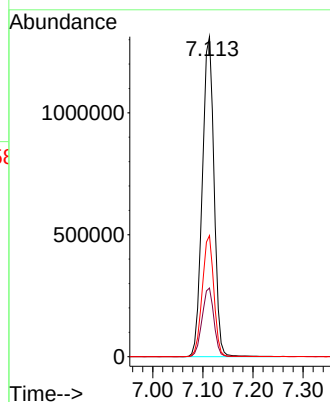
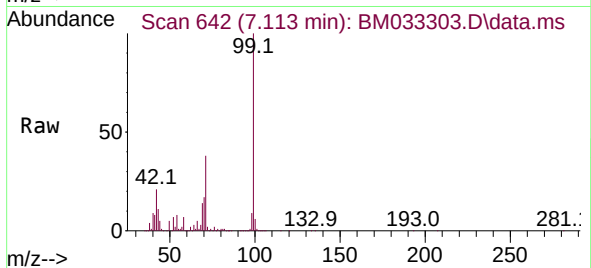




#7
Phenol-d6
Concen: 122.224 ng
RT: 7.113 min Scan# 642
Delta R.T. 0.017 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

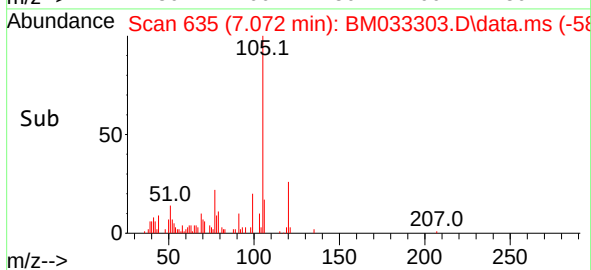
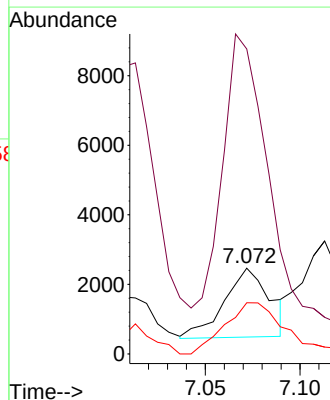
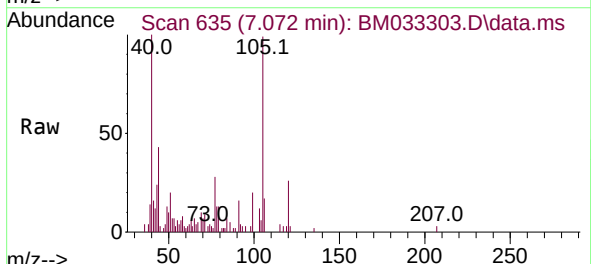
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

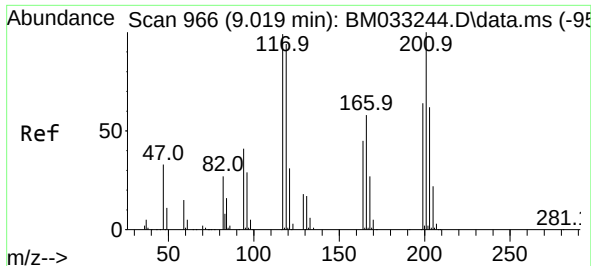
Tgt Ion: 99 Resp: 2137501
Ion Ratio Lower Upper
99 100
42 21.4 23.0 34.6#
71 37.8 37.8 56.8



#9
Benzaldehyde
Concen: Below Cal
RT: 7.072 min Scan# 635
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion: 77 Resp: 3320
Ion Ratio Lower Upper
77 100
105 355.3 68.9 108.9#
106 59.6 61.2 101.2#

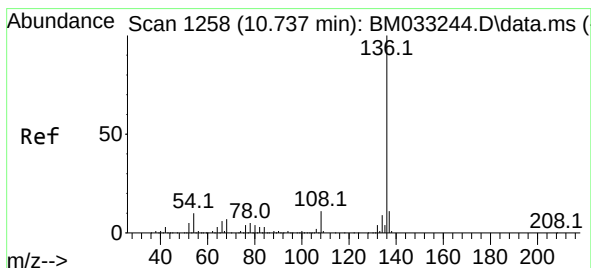
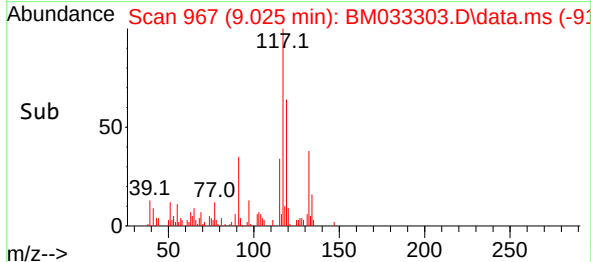
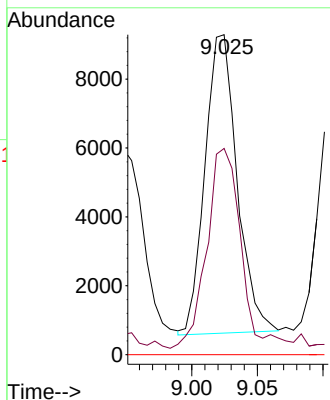
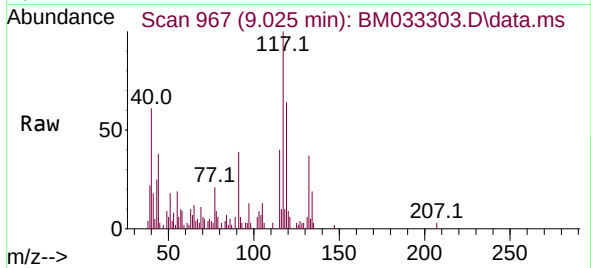




#18
Hexachloroethane
Concen: 2.490 ng
RT: 9.025 min Scan# 901
Delta R.T. 0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

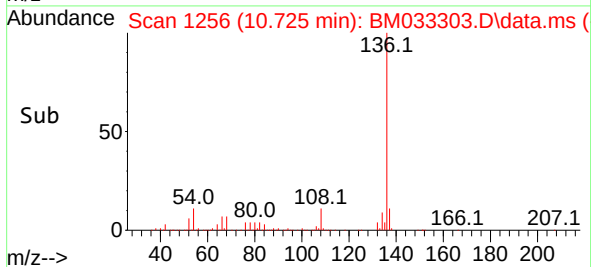
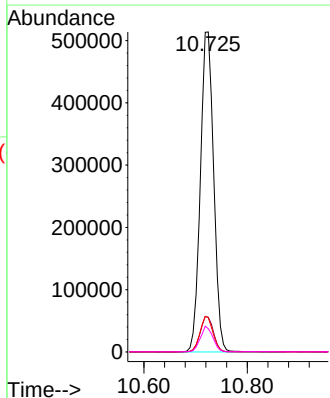
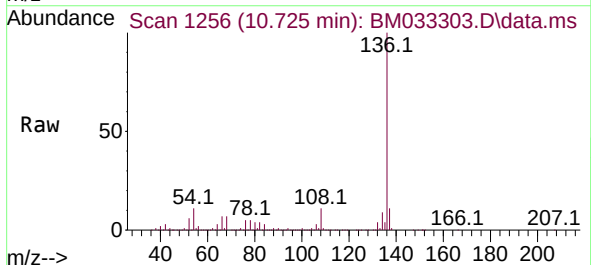
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

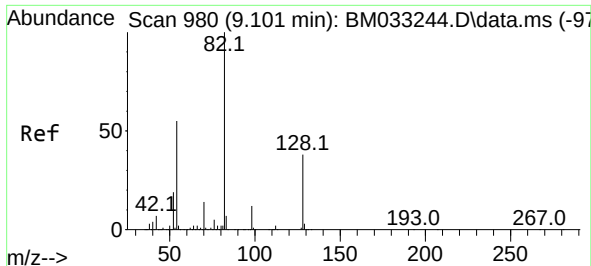
Tgt Ion:117 Resp: 14776
Ion Ratio Lower Upper
117 100
119 64.4 77.7 116.5#
201 0.0 70.2 105.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.725 min Scan# 1256
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:136 Resp: 918706
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 10.7 7.4 11.0
68 7.3 3.8 5.8#

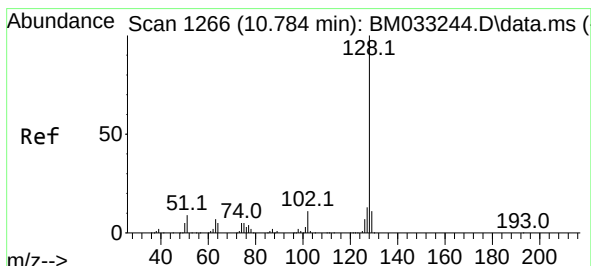
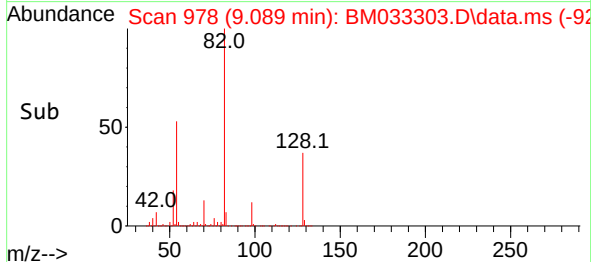
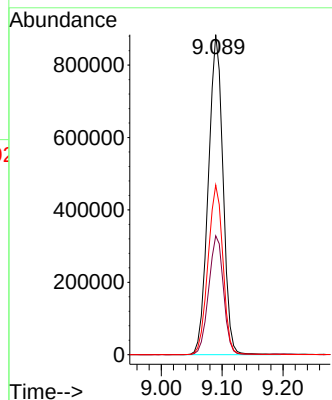
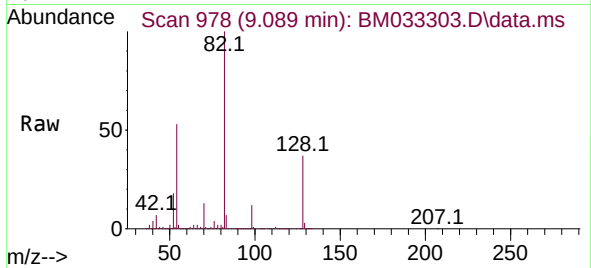




#23
Nitrobenzene-d5
Concen: 74.828 ng
RT: 9.089 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

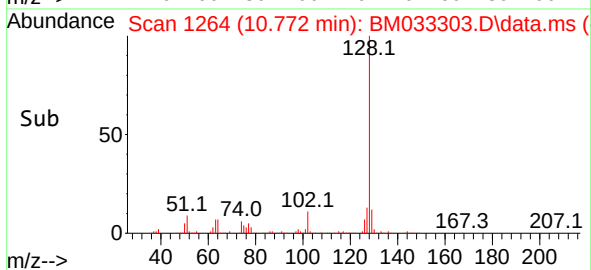
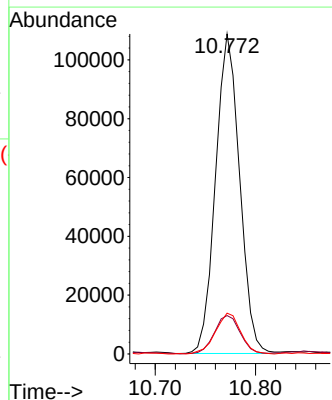
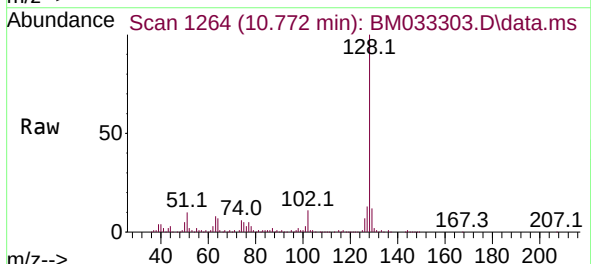
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

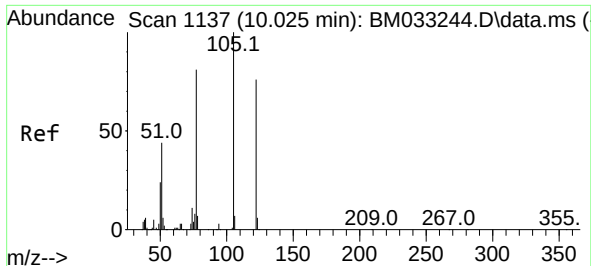
Tgt Ion: 82 Resp: 1480825
Ion Ratio Lower Upper
82 100
128 37.1 29.0 43.6
54 53.0 45.8 68.8



#31
Naphthalene
Concen: 3.738 ng
RT: 10.772 min Scan# 1264
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion: 128 Resp: 181168
Ion Ratio Lower Upper
128 100
129 12.0 8.6 13.0
127 12.8 10.4 15.6

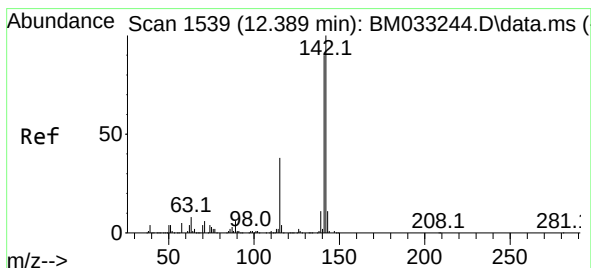
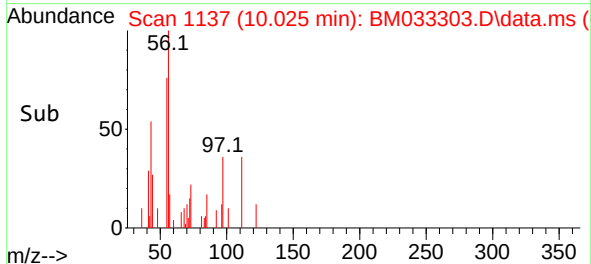
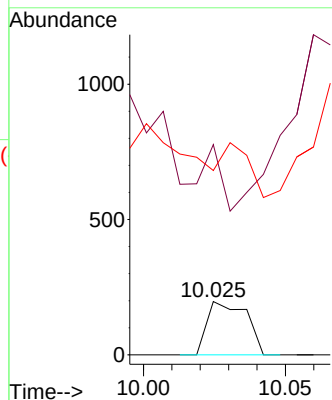
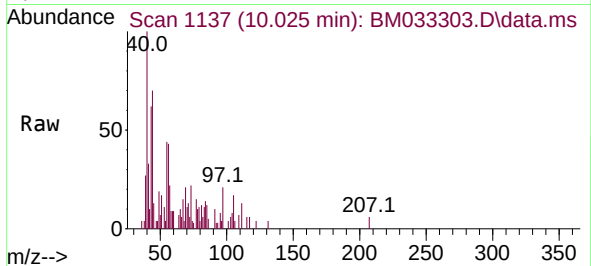




#32
Benzoic acid
Concen: 5.239 ng
RT: 10.025 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

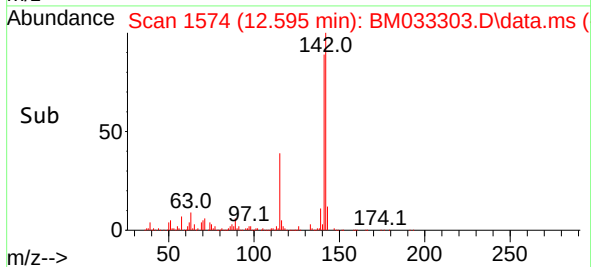
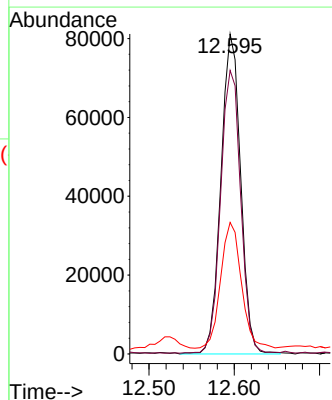
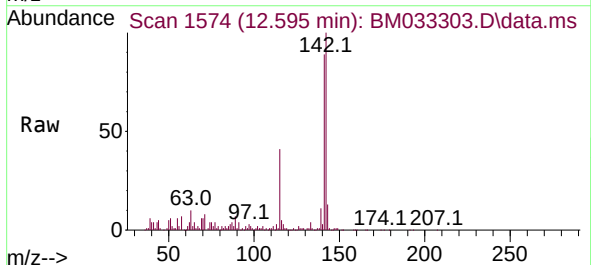
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

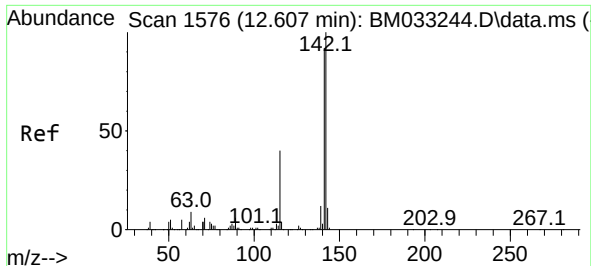
Tgt Ion:122 Resp: 188
Ion Ratio Lower Upper
122 100
105 394.4 120.3 160.3#
77 345.7 100.0 140.0#



#37
2-Methylnaphthalene
Concen: 3.956 ng
RT: 12.595 min Scan# 1574
Delta R.T. 0.206 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:142 Resp: 130529
Ion Ratio Lower Upper
142 100
141 88.6 71.8 107.6
115 41.1 36.3 54.5

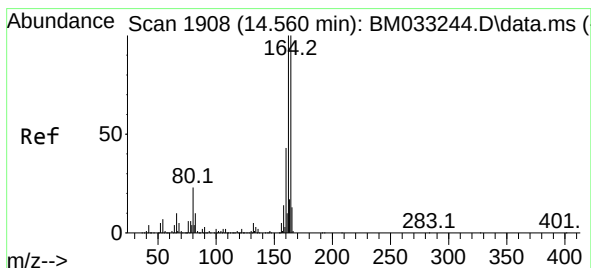
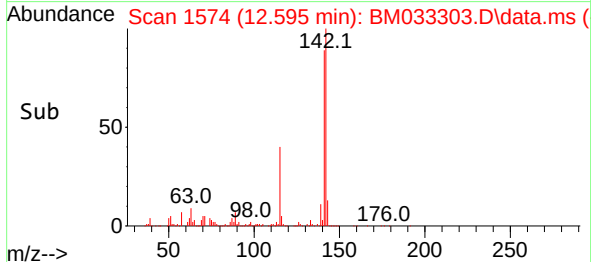
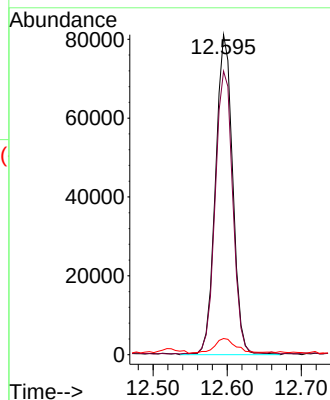
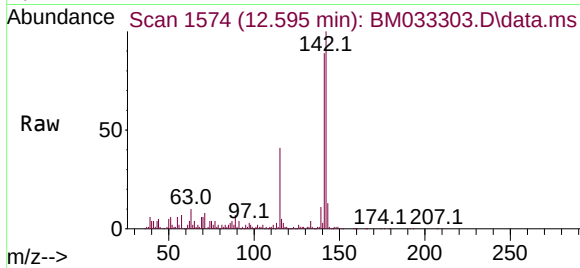




#38
1-Methylnaphthalene
Concen: 4.060 ng
RT: 12.595 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

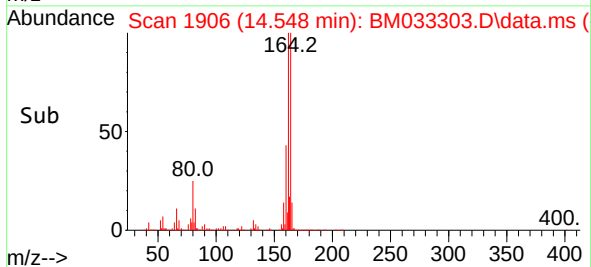
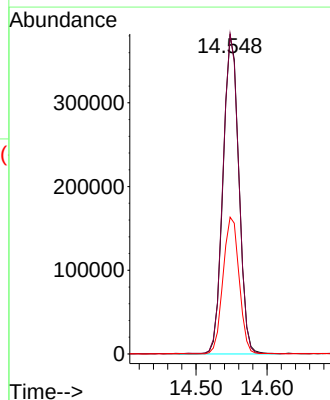
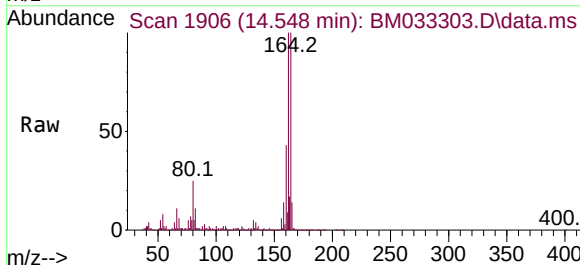
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

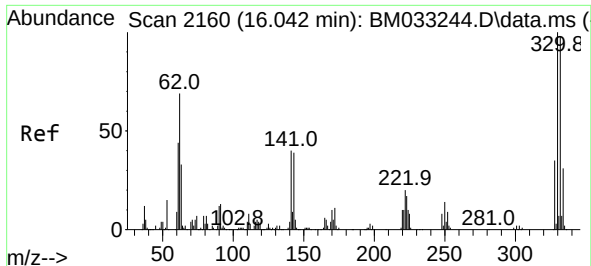
Tgt Ion:142 Resp: 130699
Ion Ratio Lower Upper
142 100
141 88.6 75.6 113.4
116 5.1 4.0 6.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.548 min Scan# 1906
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

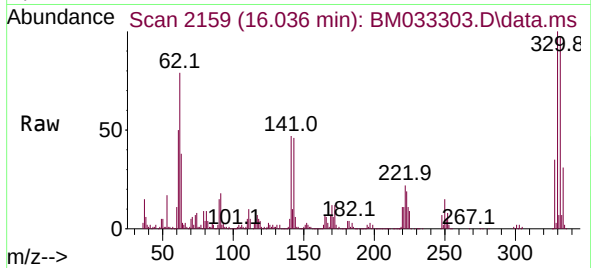
Tgt Ion:164 Resp: 587029
Ion Ratio Lower Upper
164 100
162 100.4 80.6 121.0
160 42.9 35.1 52.7



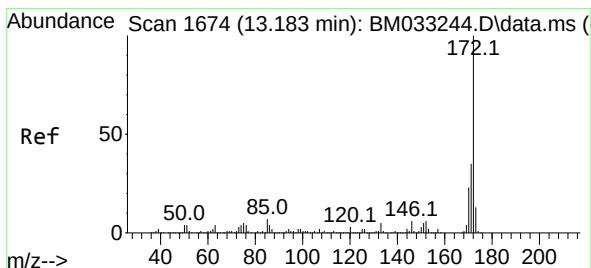
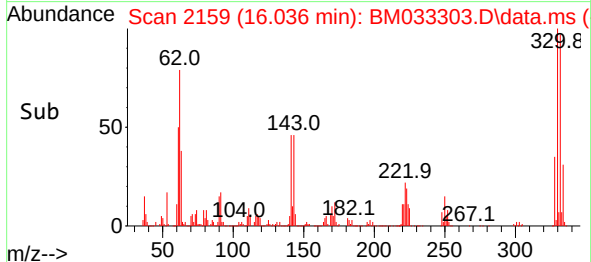
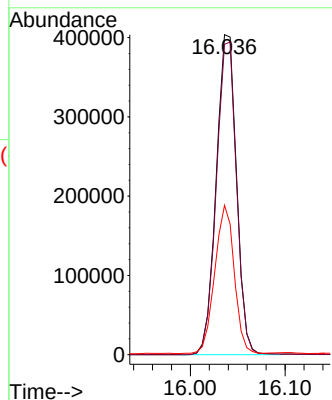


#42
2,4,6-Tribromophenol
Concen: 94.041 ng
RT: 16.036 min Scan# 2160
Delta R.T. -0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

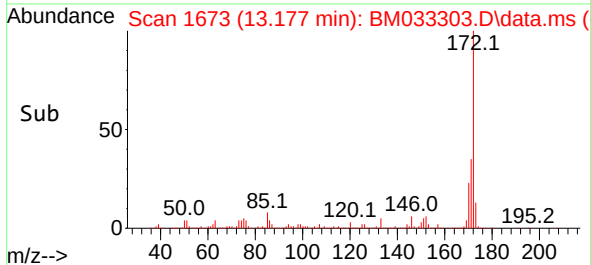
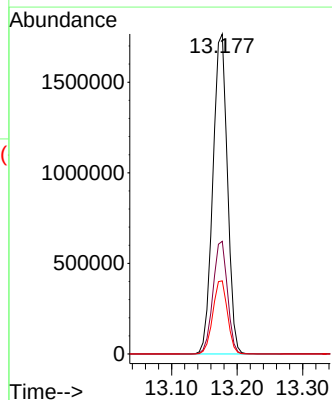
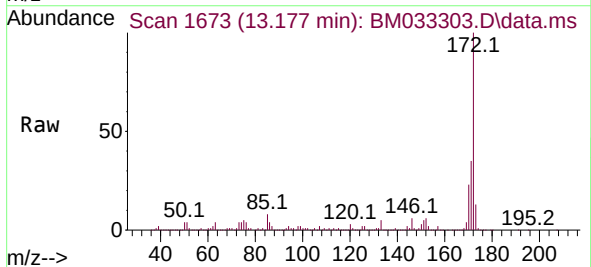


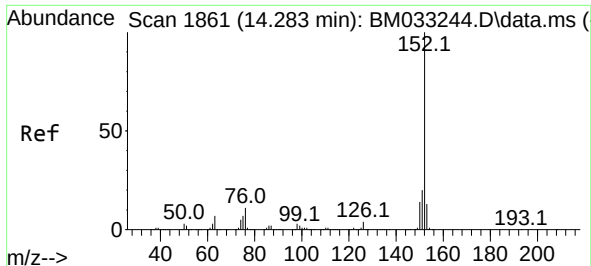
Tgt Ion:330 Resp: 601782
Ion Ratio Lower Upper
330 100
332 97.1 75.7 113.5
141 44.4 50.7 76.1#



#45
2-Fluorobiphenyl
Concen: 65.240 ng
RT: 13.177 min Scan# 1673
Delta R.T. -0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:172 Resp: 2715561
Ion Ratio Lower Upper
172 100
171 35.2 28.1 42.1
170 22.8 18.6 27.8

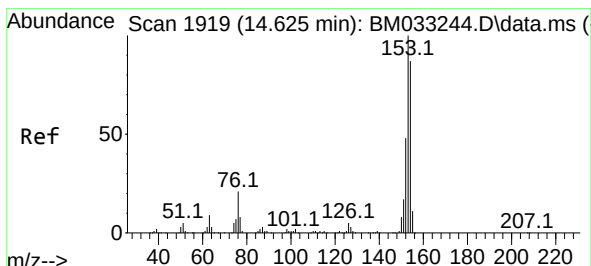
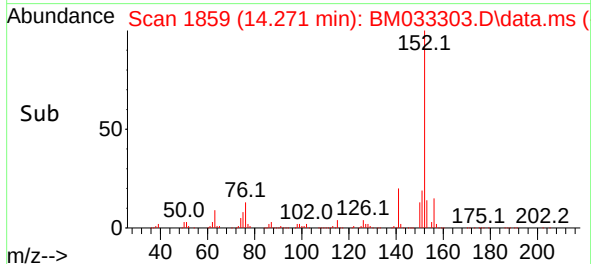
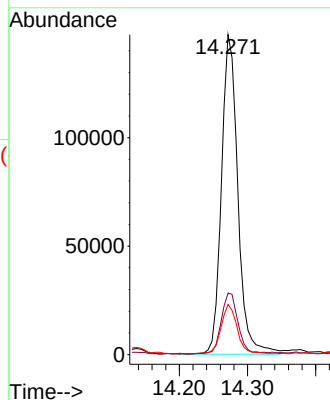
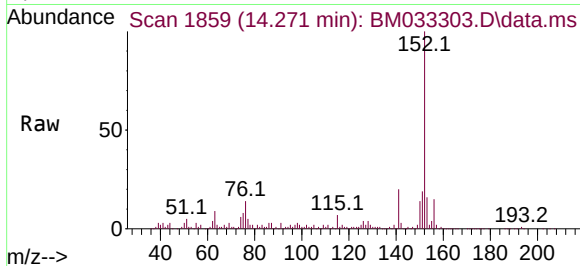




#49
Acenaphthylene
Concen: 4.685 ng
RT: 14.271 min Scan# 1859
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

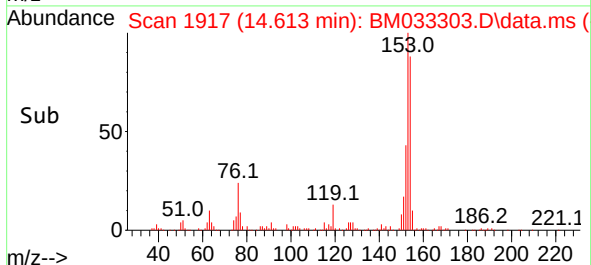
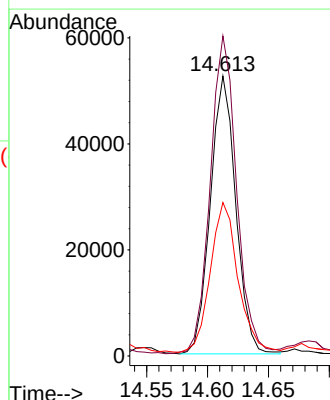
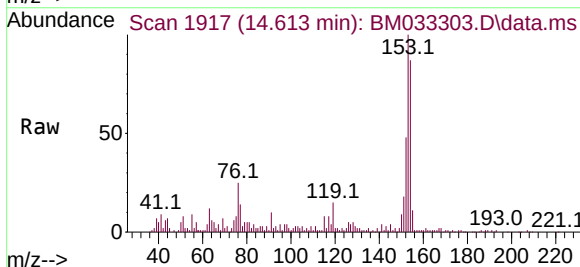
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

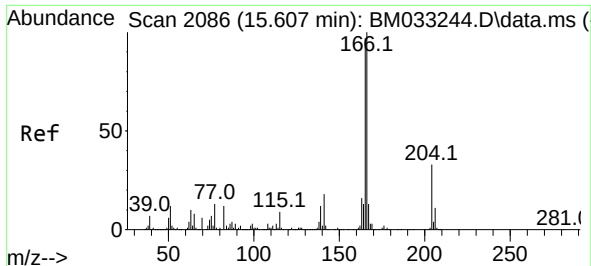
Tgt Ion:152 Resp: 246744
Ion Ratio Lower Upper
152 100
151 19.2 15.7 23.5
153 15.7 10.6 15.8



#52
Acenaphthene
Concen: 2.354 ng
RT: 14.613 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:154 Resp: 76193
Ion Ratio Lower Upper
154 100
153 114.4 92.4 138.6
152 54.8 43.7 65.5

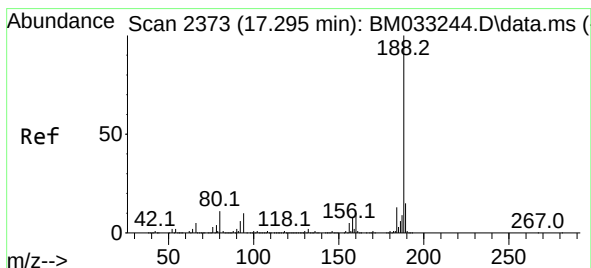
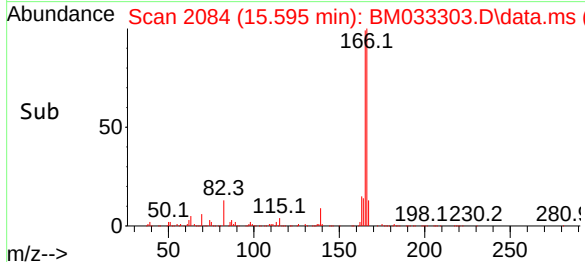
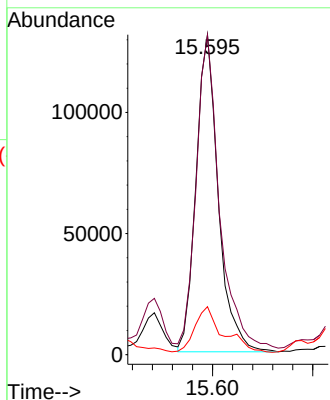
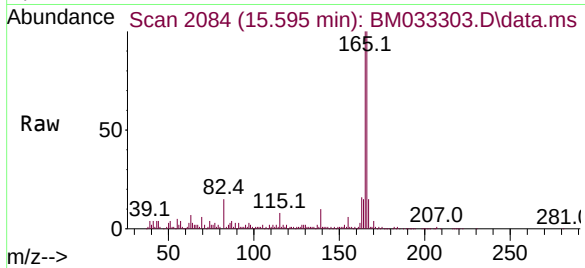




#58
Fluorene
Concen: 4.794 ng
RT: 15.595 min Scan# 2084
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

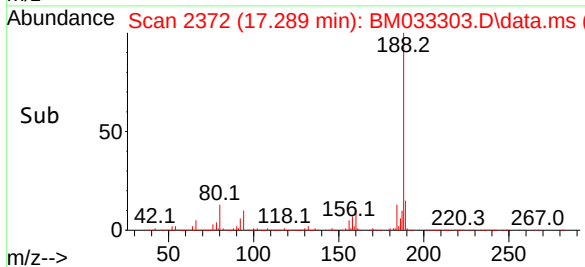
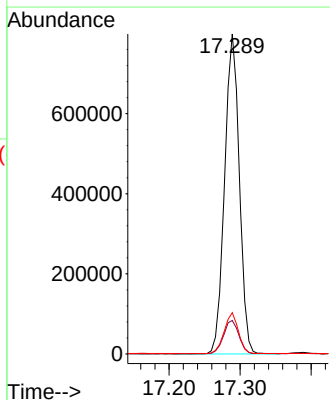
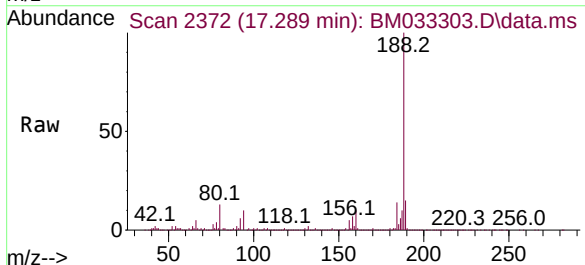
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

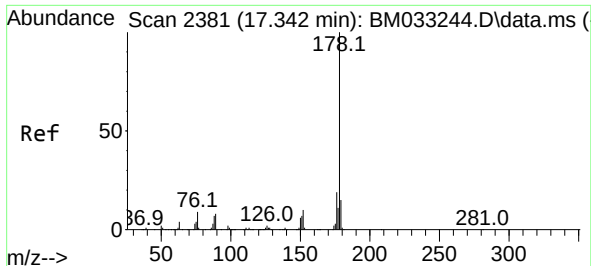
Tgt Ion:166 Resp: 202038
Ion Ratio Lower Upper
166 100
165 100.0 79.3 118.9
167 15.0 10.6 16.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.289 min Scan# 2372
Delta R.T. -0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:188 Resp: 1145016
Ion Ratio Lower Upper
188 100
94 10.5 6.3 9.5#
80 12.9 7.3 10.9#

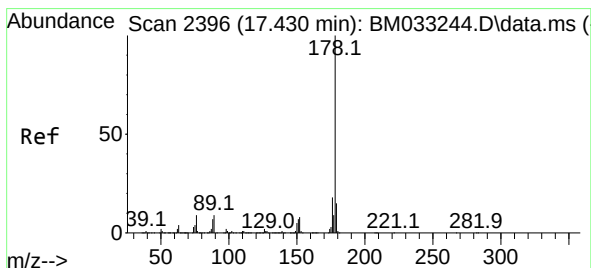
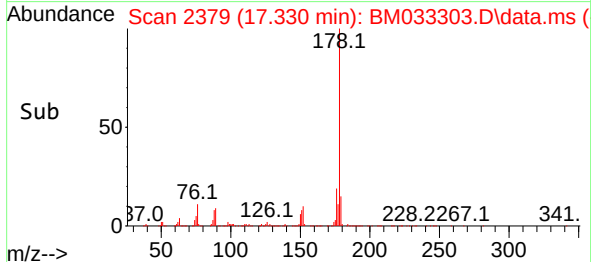
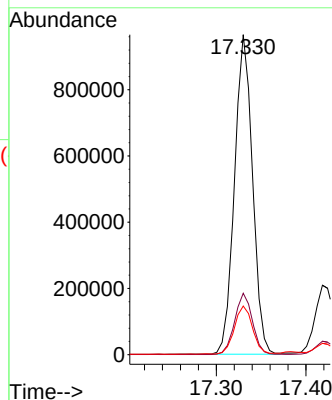
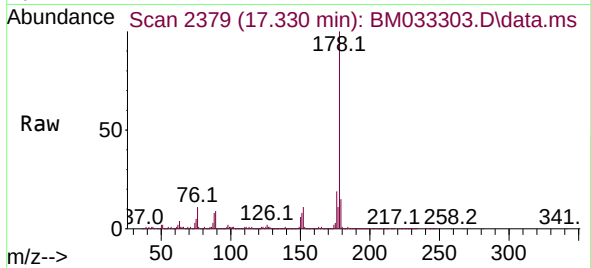




#71
Phenanthrene
Concen: 21.367 ng
RT: 17.330 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

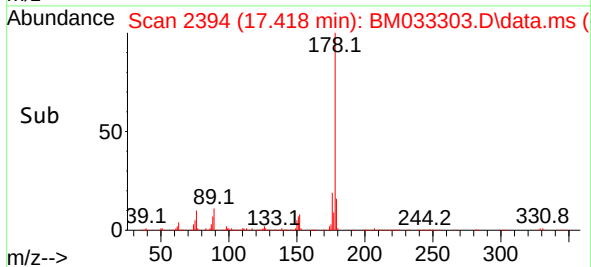
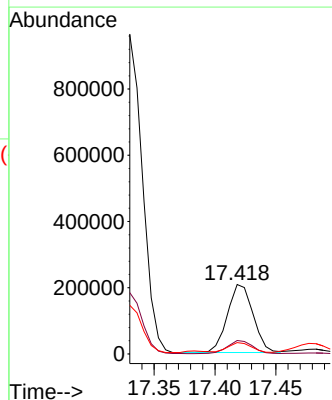
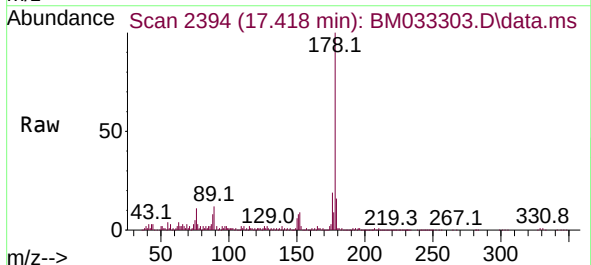
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

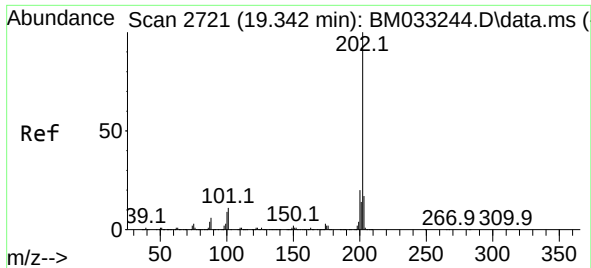
Tgt Ion:178 Resp: 1344779
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.2 12.4 18.6



#72
Anthracene
Concen: 4.976 ng
RT: 17.418 min Scan# 2394
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:178 Resp: 302104
Ion Ratio Lower Upper
178 100
176 19.4 14.8 22.2
179 16.5 12.3 18.5

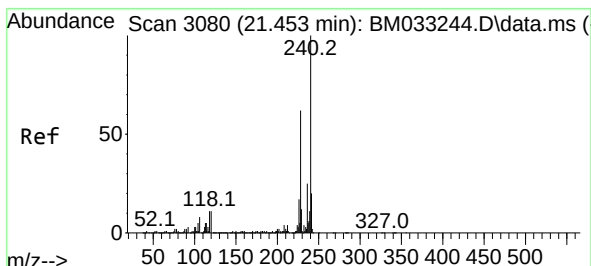
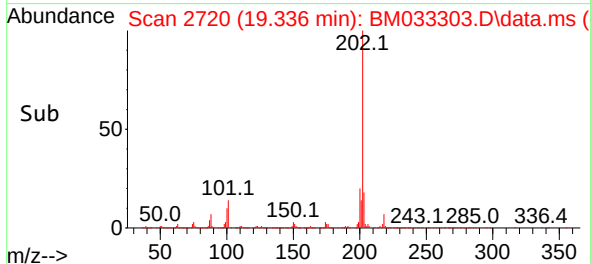
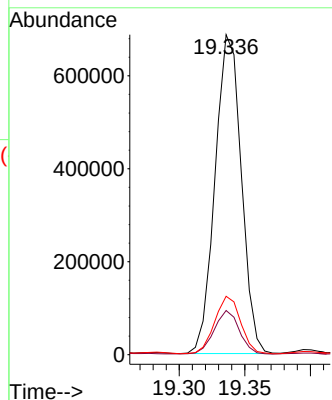
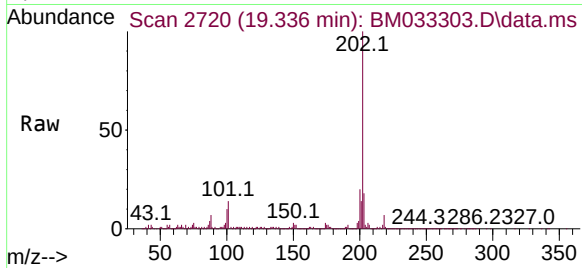




#75
Fluoranthene
Concen: 13.202 ng
RT: 19.336 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

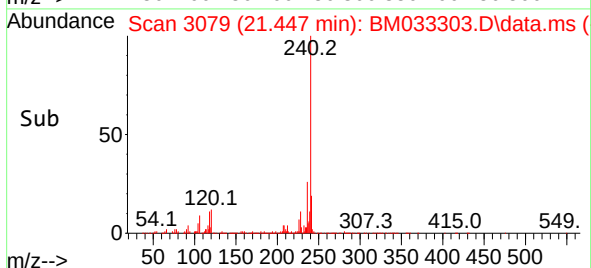
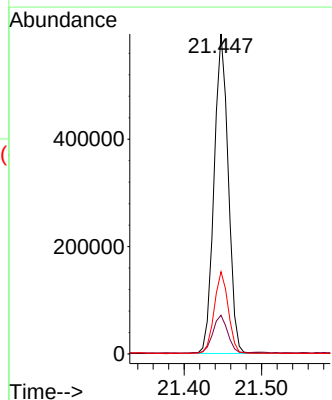
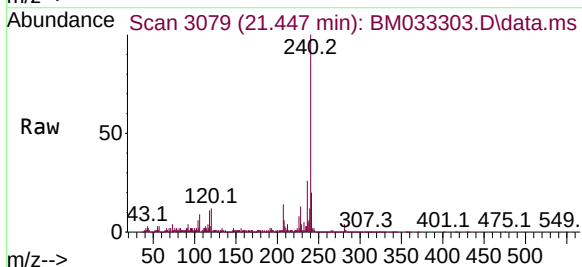
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

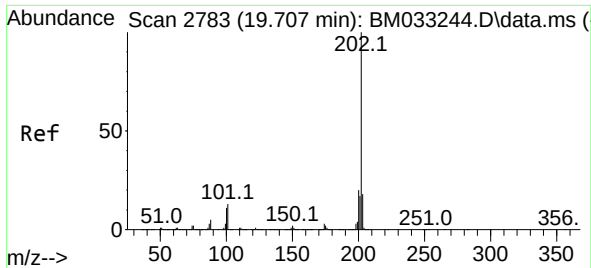
Tgt Ion:202 Resp: 954857
Ion Ratio Lower Upper
202 100
101 13.8 0.0 29.9
203 18.2 0.0 36.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.447 min Scan# 3079
Delta R.T. -0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:240 Resp: 756869
Ion Ratio Lower Upper
240 100
120 12.1 7.8 11.6#
236 25.7 20.9 31.3

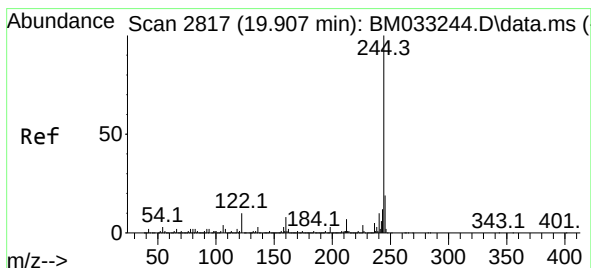
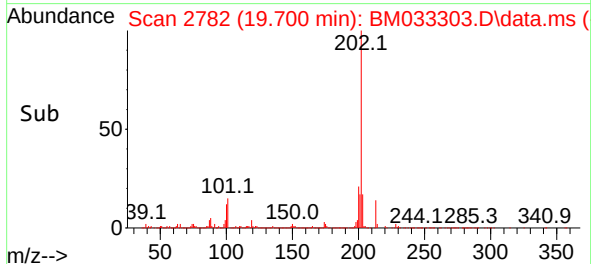
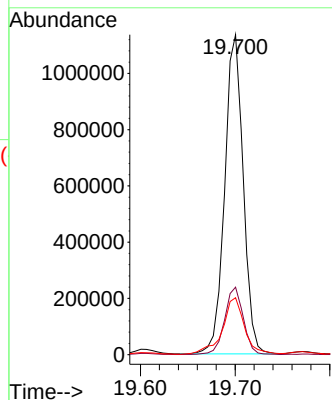
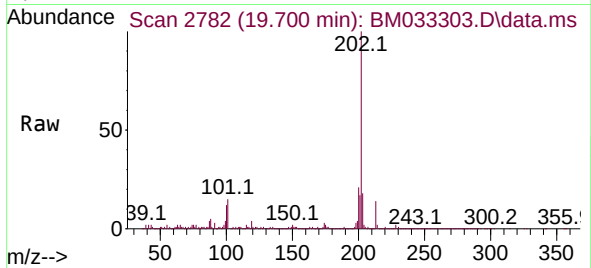




#78
 Pyrene
 Concen: 31.049 ng
 RT: 19.700 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM033303.D
 Acq: 04 Dec 2021 01:13

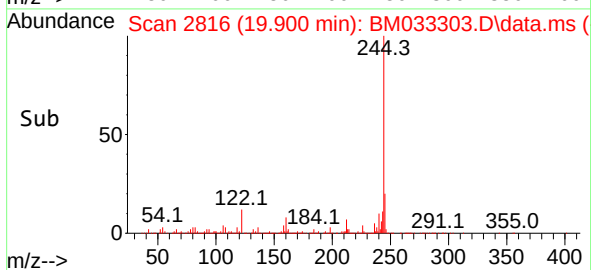
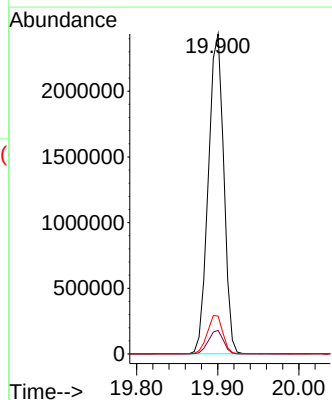
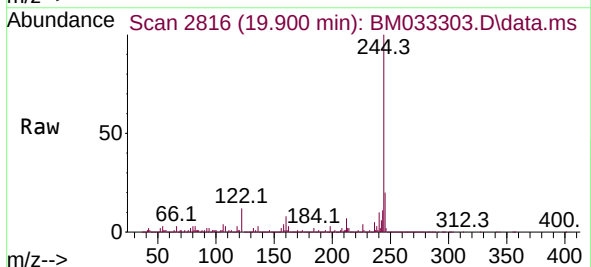
Instrument :
 BNA_M
 ClientSampleId :
 HG-SOIL-PILE

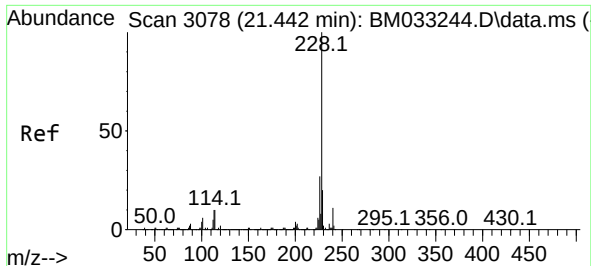
Tgt Ion:202 Resp: 1546920
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.6 25.0
 203 17.8 13.7 20.5



#79
 Terphenyl-d14
 Concen: 83.704 ng
 RT: 19.900 min Scan# 2816
 Delta R.T. -0.006 min
 Lab File: BM033303.D
 Acq: 04 Dec 2021 01:13

Tgt Ion:244 Resp: 3203887
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.5 9.7
 122 11.8 8.7 13.1

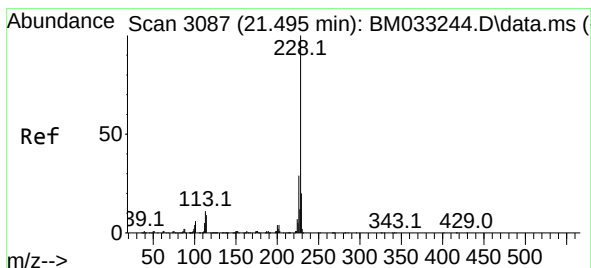
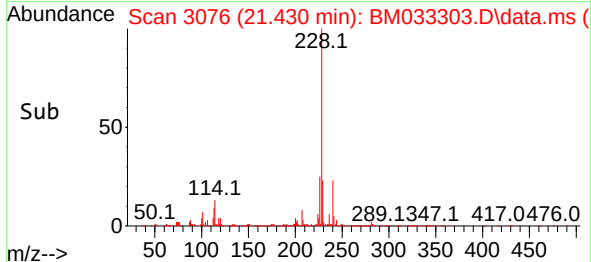
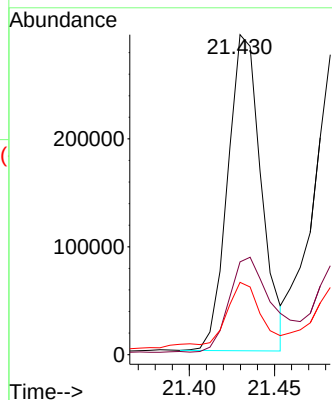
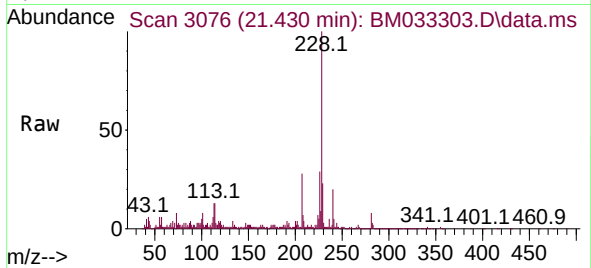




#81
Benzo(a)anthracene
Concen: 8.269 ng
RT: 21.430 min Scan# 3076
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

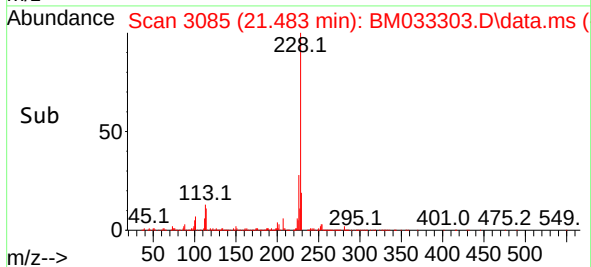
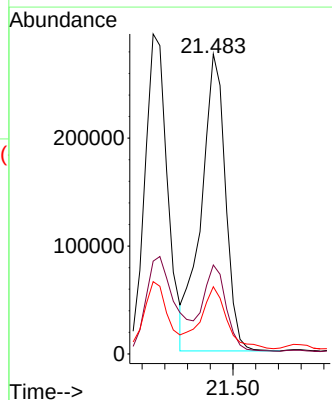
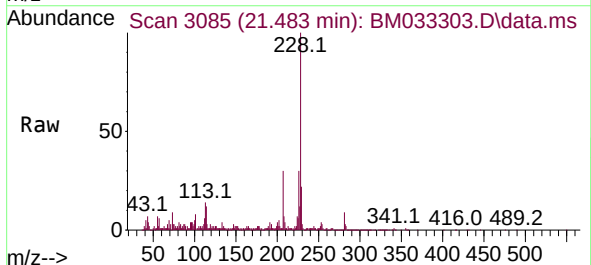
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

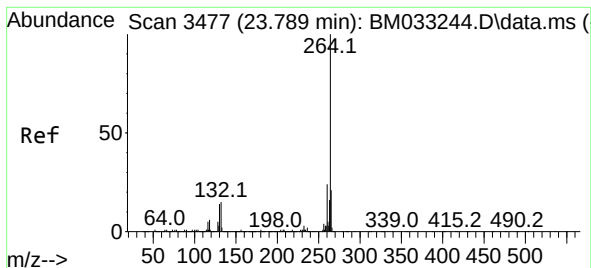
Tgt Ion:228 Resp: 401683
Ion Ratio Lower Upper
228 100
226 29.0 21.4 32.2
229 22.6 15.3 22.9



#83
Chrysene
Concen: 8.629 ng
RT: 21.483 min Scan# 3085
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:228 Resp: 408352
Ion Ratio Lower Upper
228 100
226 29.7 24.0 36.0
229 22.4 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.777 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM033303.D

Acq: 04 Dec 2021 01:13

Instrument :

BNA_M

ClientSampleId :

HG-SOIL-PILE

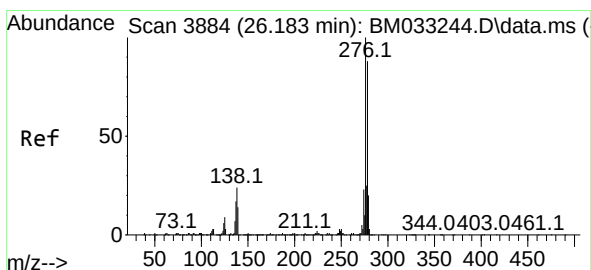
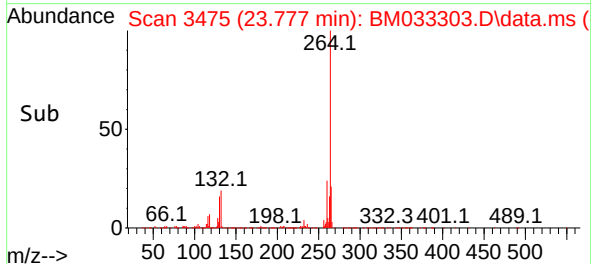
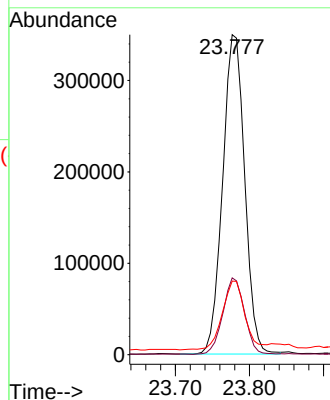
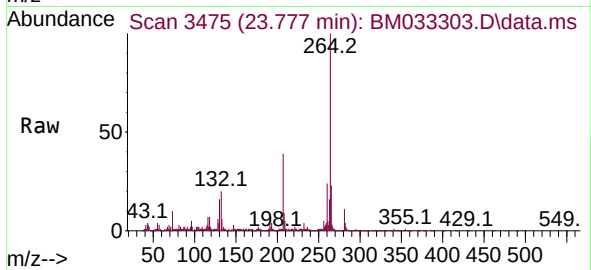
Tgt Ion:264 Resp: 721898

Ion Ratio Lower Upper

264 100

260 24.0 19.3 28.9

265 23.0 18.3 27.5



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.511 ng

RT: 26.159 min Scan# 3880

Delta R.T. -0.024 min

Lab File: BM033303.D

Acq: 04 Dec 2021 01:13

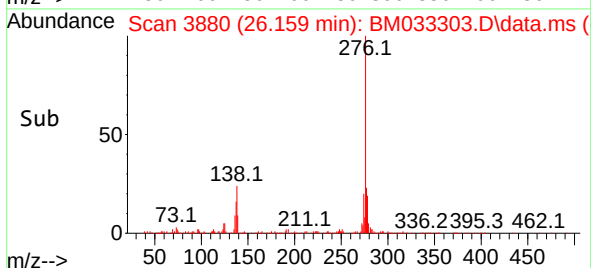
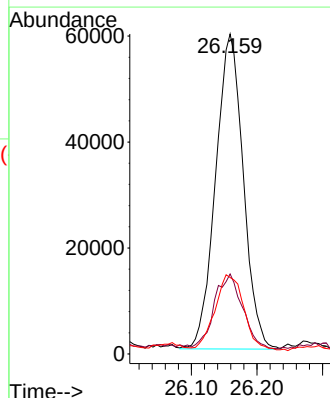
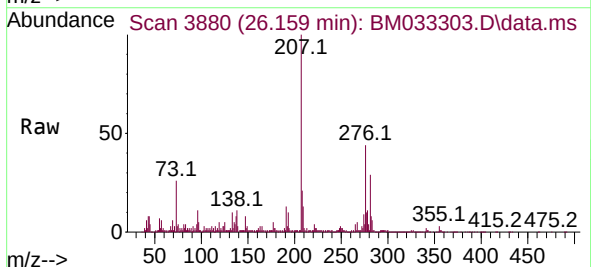
Tgt Ion:276 Resp: 174036

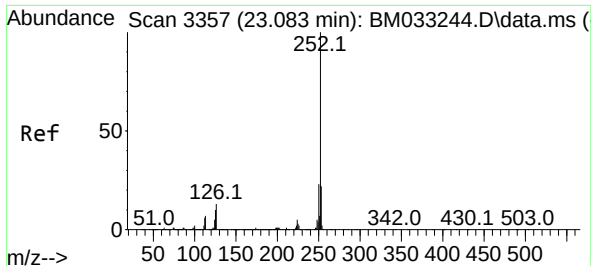
Ion Ratio Lower Upper

276 100

138 24.1 18.4 27.6

277 24.7 20.1 30.1

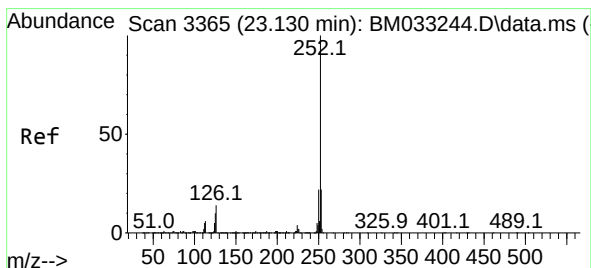
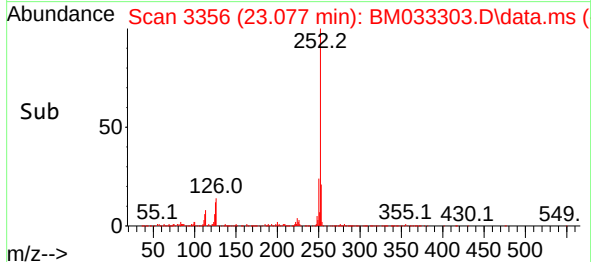
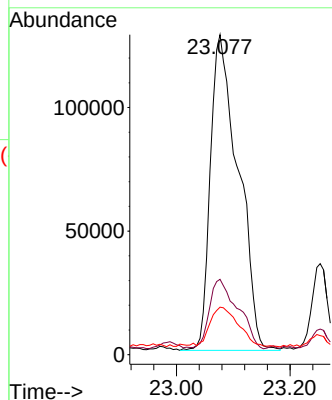
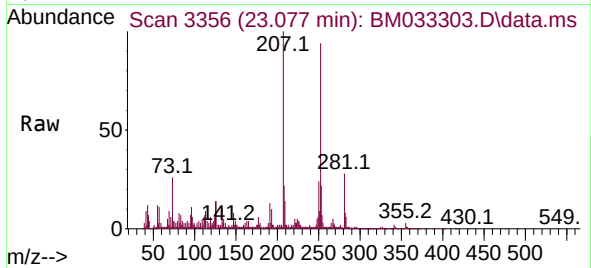




#88
Benzo(b)fluoranthene
Concen: 9.921 ng
RT: 23.077 min Scan# 3356
Delta R.T. -0.006 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

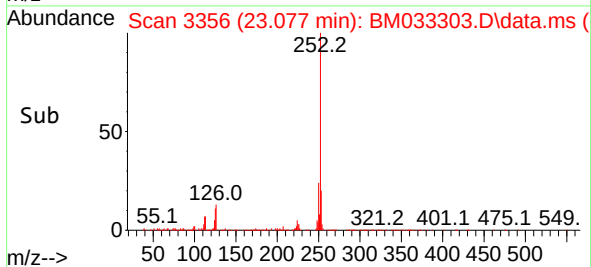
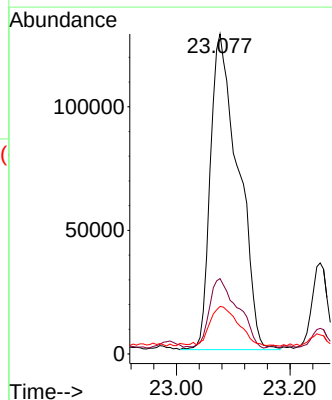
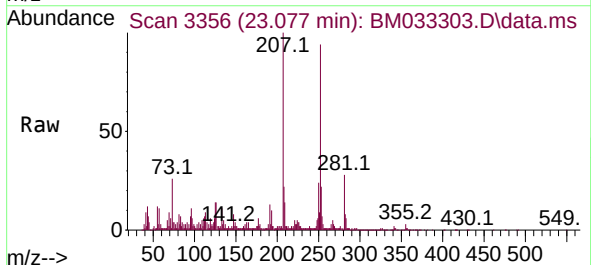
Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

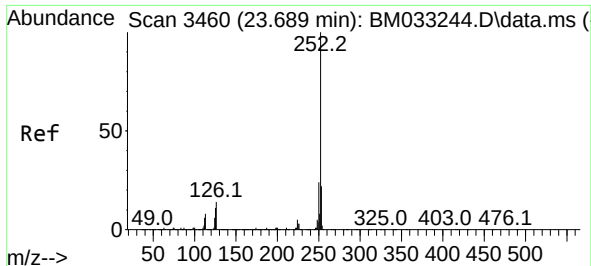
Tgt Ion:252 Resp: 434973
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 14.9 7.5 11.3#



#89
Benzo(k)fluoranthene
Concen: 9.887 ng
RT: 23.077 min Scan# 3356
Delta R.T. -0.053 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:252 Resp: 434973
Ion Ratio Lower Upper
252 100
253 23.5 17.3 25.9
125 14.9 7.5 11.3#

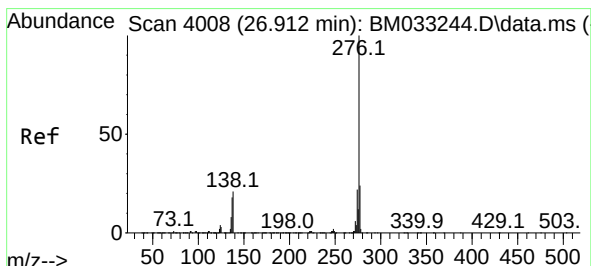
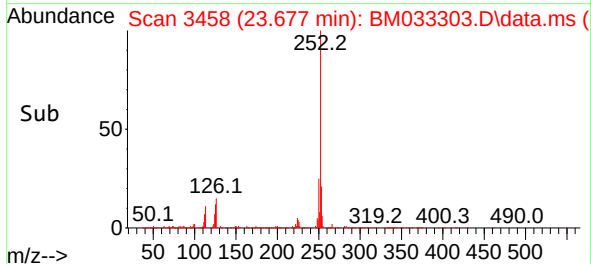
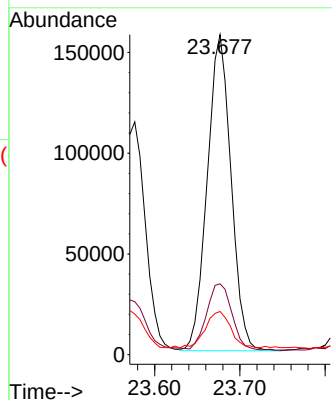
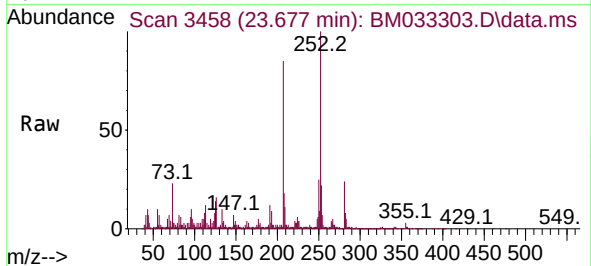




#90
Benzo(a)pyrene
Concen: 8.294 ng
RT: 23.677 min Scan# 34
Delta R.T. -0.012 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Instrument :
BNA_M
ClientSampleId :
HG-SOIL-PILE

Tgt Ion:252 Resp: 304577
Ion Ratio Lower Upper
252 100
253 22.2 17.4 26.2
125 13.5 8.1 12.1#



#92
Benzo(g,h,i)perylene
Concen: 5.096 ng
RT: 26.888 min Scan# 4004
Delta R.T. -0.024 min
Lab File: BM033303.D
Acq: 04 Dec 2021 01:13

Tgt Ion:276 Resp: 210961
Ion Ratio Lower Upper
276 100
277 23.5 19.4 29.0
138 23.2 14.6 22.0#

