

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM031521\
 Data File : BM029136.D
 Acq On : 15 Mar 2021 18:49
 Operator : CG/JU
 Sample : M1678-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D2470-D2800(SOIL)-A

Quant Time: Mar 16 00:29:27 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM022321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 12 12:30:15 2021
 Response via : Initial Calibration

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

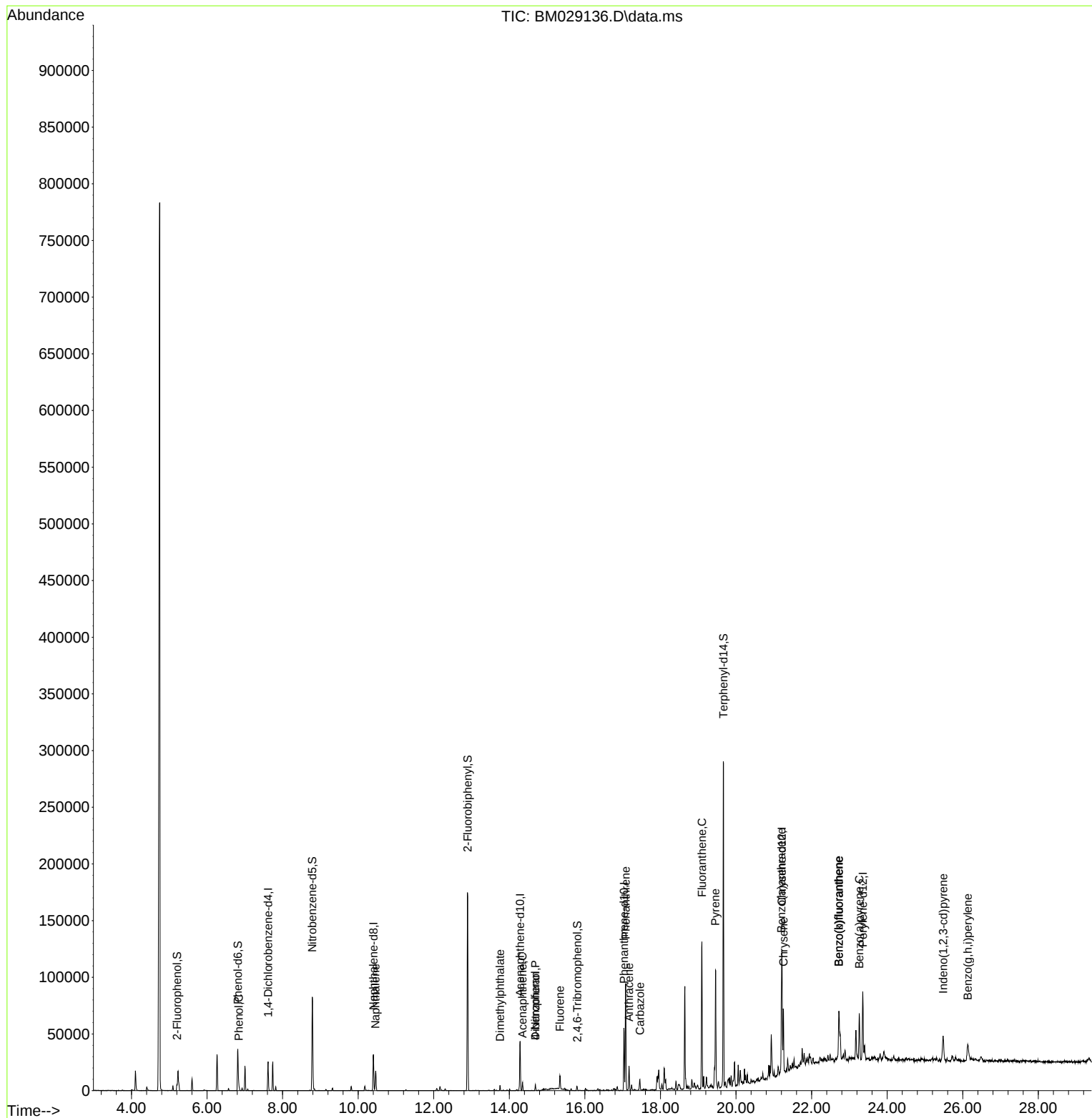
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.616	152	6787	20.00	ng	0.00
21) Naphthalene-d8	10.404	136	25993	20.00	ng	#-0.01
39) Acenaphthene-d10	14.286	164	15057	20.00	ng	-0.01
64) Phenanthrene-d10	17.033	188	31377	20.00	ng	-0.01
76) Chrysene-d12	21.215	240	33458	20.00	ng	#-0.01
86) Perylene-d12	23.356	264	35763	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.204	112	2993	7.31	ng	0.00
7) Phenol-d6	6.816	99	18725	34.62	ng	0.00
23) Nitrobenzene-d5	8.787	82	41462	86.06	ng	-0.01
42) 2,4,6-Tribromophenol	15.798	330	713	4.00	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	84449	74.67	ng	0.00
79) Terphenyl-d14	19.668	244	116543	64.32	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.846	94	1243	2.31	ng	92
31) Naphthalene	10.457	128	4356	3.04	ng	# 97
50) Dimethylphthalate	13.757	163	3309	2.90	ng	# 95
52) Acenaphthene	14.351	154	2961	3.19	ng	98
55) Dibenzofuran	14.692	168	3652	2.51	ng	93
56) 4-Nitrophenol	14.692	139	1595	7.50	ng	# 1
58) Fluorene	15.339	166	5323	4.56	ng	100
71) Phenanthrene	17.080	178	53944	28.87	ng	99
72) Anthracene	17.168	178	13717	7.41	ng	99
73) Carbazole	17.457	167	7125	4.01	ng	# 93
75) Fluoranthene	19.098	202	69639	33.92	ng	99
78) Pyrene	19.456	202	64260	26.14	ng	99
81) Benzo(a)anthracene	21.203	228	33145	14.27	ng	98
83) Chrysene	21.256	228	28059	12.40	ng	96
87) Indeno(1,2,3-cd)pyrene	25.486	276	15803	5.86	ng	# 94
88) Benzo(b)fluoranthene	22.721	252	33795	13.38	ng	# 95
89) Benzo(k)fluoranthene	22.721	252	33795	14.08	ng	# 95
90) Benzo(a)pyrene	23.262	252	26655	11.56	ng	# 97
92) Benzo(g,h,i)perylene	26.133	276	15457	6.83	ng	# 93

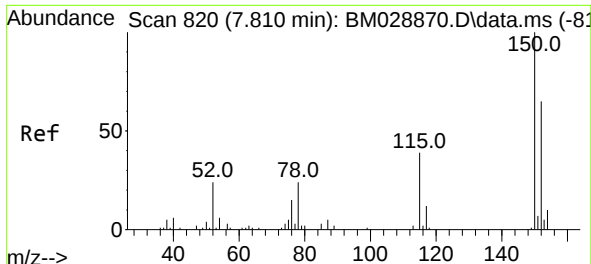
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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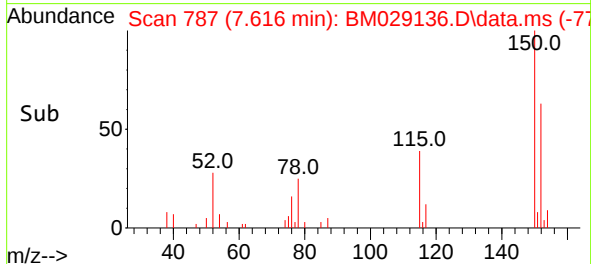
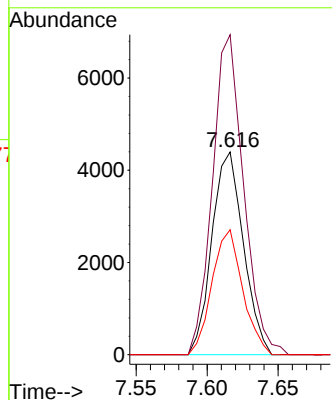
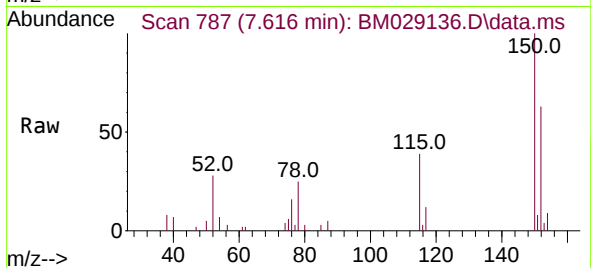




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.616 min Scan# 787
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

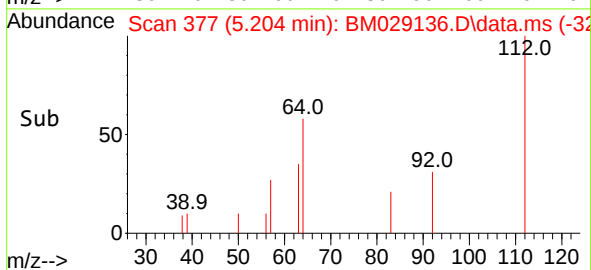
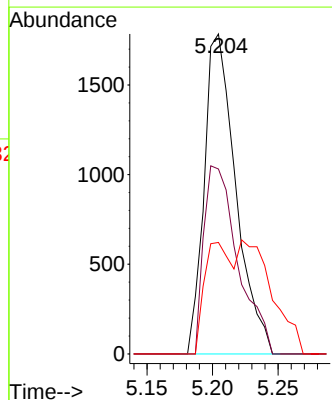
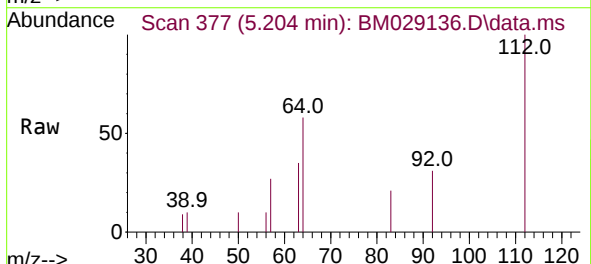
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

Tgt Ion:152 Resp: 6787
Ion Ratio Lower Upper
152 100
150 157.9 120.6 181.0
115 61.7 47.2 70.8



#5
2-Fluorophenol
Concen: 7.31 ng
RT: 5.204 min Scan# 377
Delta R.T. 0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:112 Resp: 2993
Ion Ratio Lower Upper
112 100
64 57.8 50.6 76.0
63 34.8 31.0 46.6

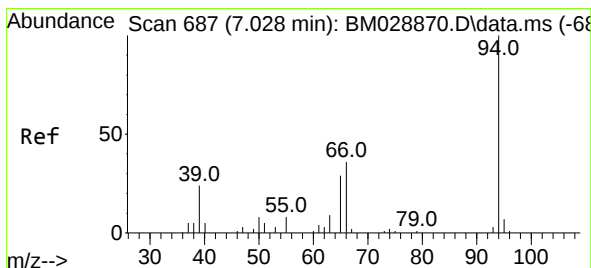
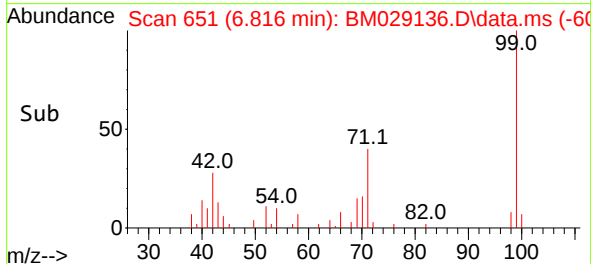
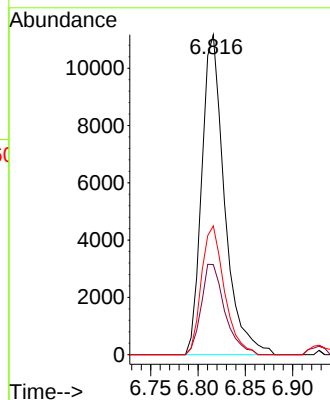
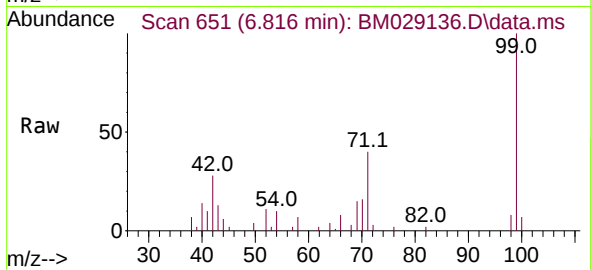




#7
Phenol-d6
Concen: 34.62 ng
RT: 6.816 min Scan# 651
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

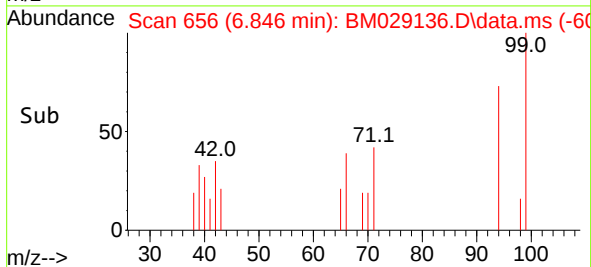
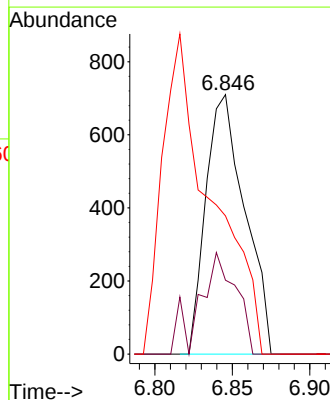
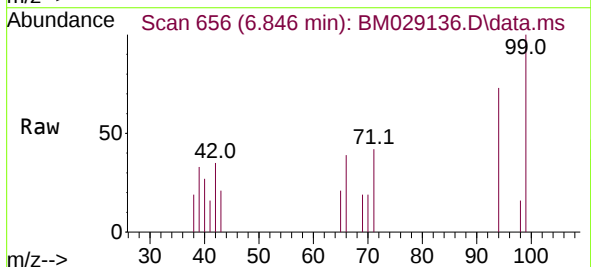
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

Tgt Ion: 99 Resp: 18725
Ion Ratio Lower Upper
99 100
42 28.1 13.5 20.3#
71 40.3 39.4 59.0



#10
Phenol
Concen: 2.31 ng
RT: 6.846 min Scan# 656
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion: 94 Resp: 1243
Ion Ratio Lower Upper
94 100
65 28.5 16.4 56.4
66 53.2 30.2 70.2

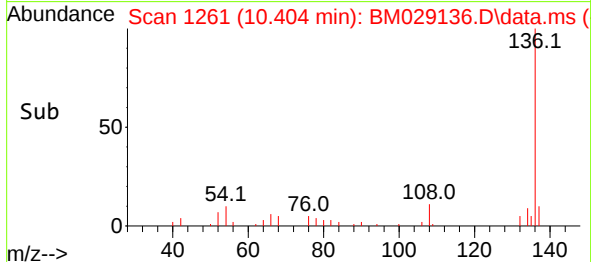
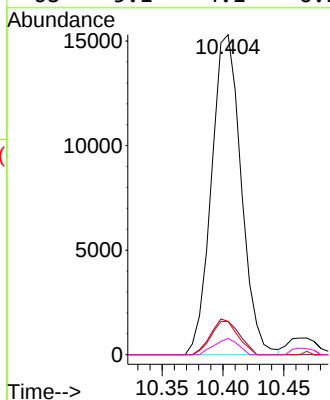
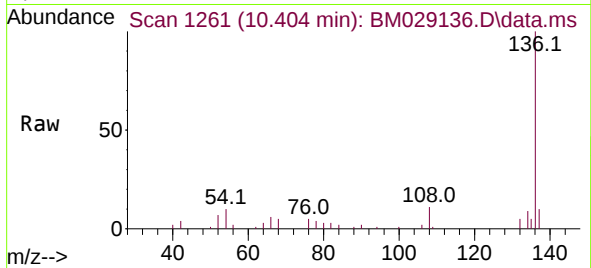




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.404 min Scan# 1261
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

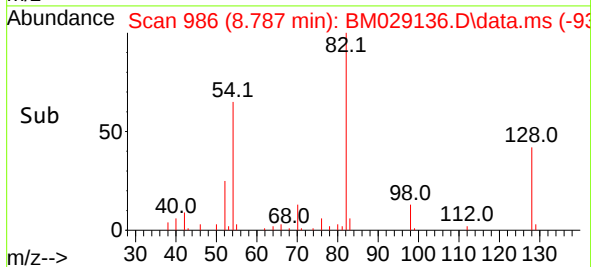
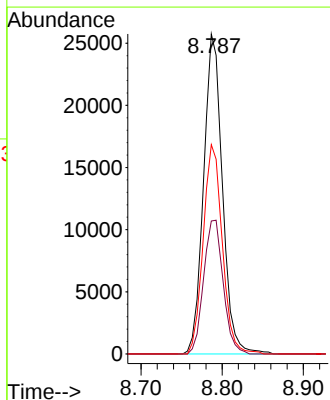
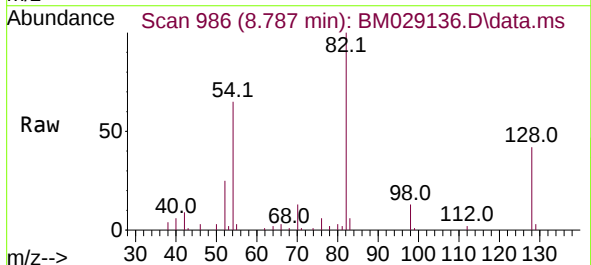
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

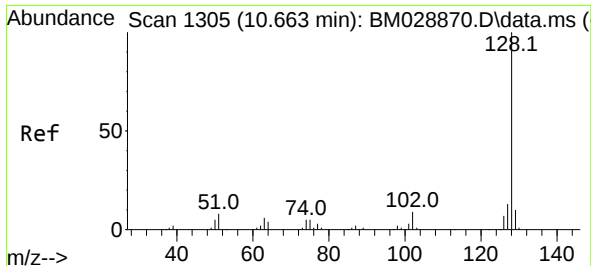
Tgt Ion:136	Resp:	25993
Ion Ratio	Lower	Upper
136	100	
137	10.4	8.6 12.8
54	10.4	4.6 7.0#
68	5.1	4.1 6.1



#23
Nitrobenzene-d5
Concen: 86.06 ng
RT: 8.787 min Scan# 986
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion: 82	Resp:	41462
Ion Ratio	Lower	Upper
82	100	
128	41.5	27.4 41.0#
54	65.4	31.4 47.0#

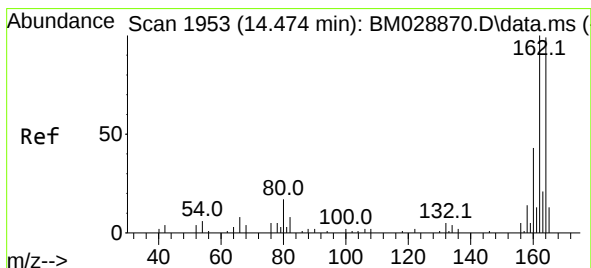
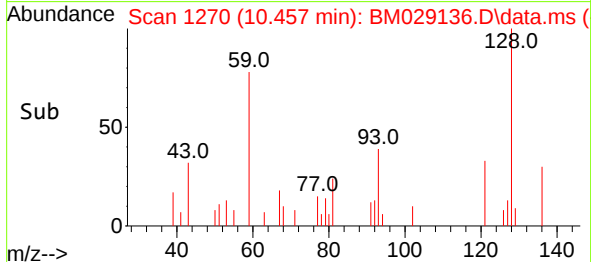
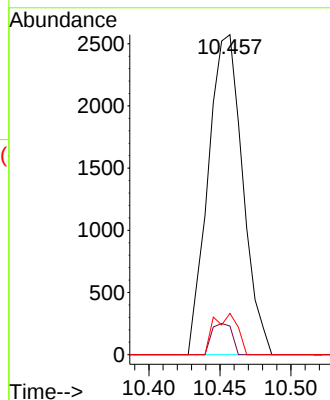
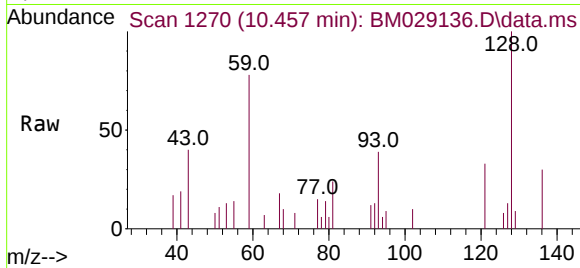




#31
Naphthalene
Concen: 3.04 ng
RT: 10.457 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

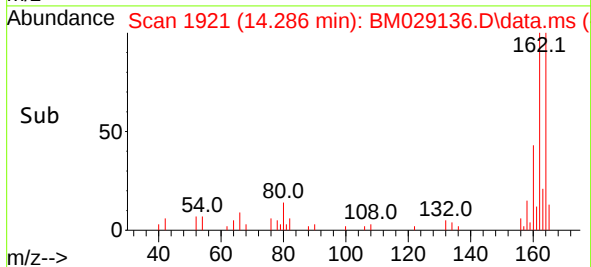
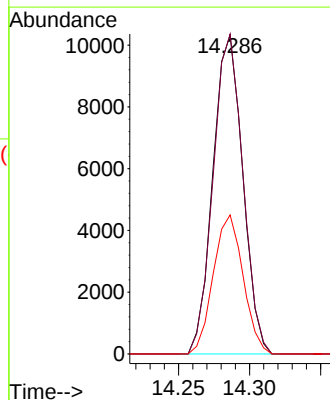
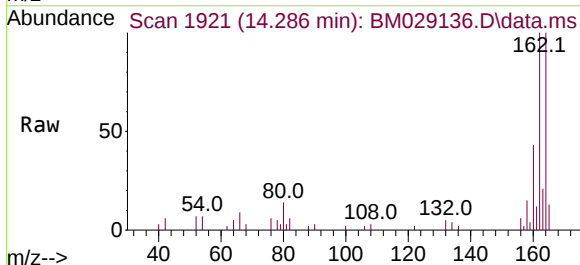
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

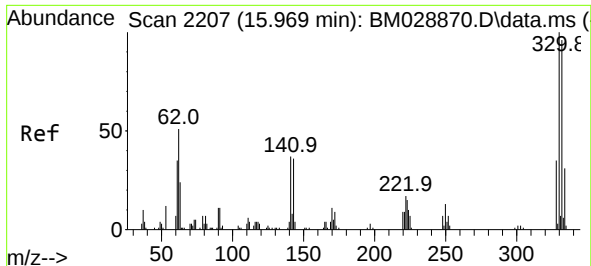
Tgt Ion:128 Resp: 4356
Ion Ratio Lower Upper
128 100
129 8.9 9.0 13.4#
127 12.9 10.6 15.8



#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.286 min Scan# 1921
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

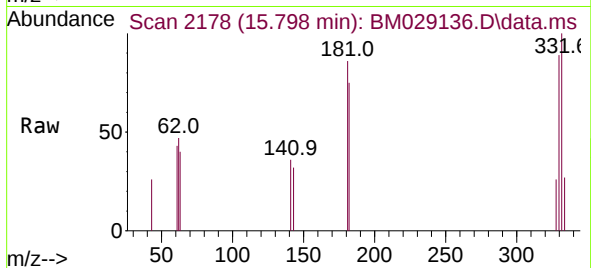
Tgt Ion:164 Resp: 15057
Ion Ratio Lower Upper
164 100
162 100.4 80.4 120.6
160 43.6 35.9 53.9



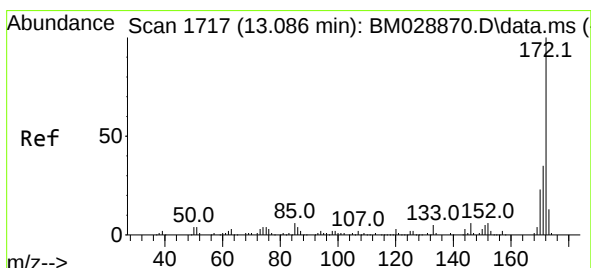
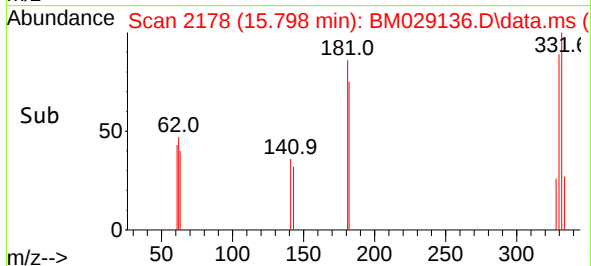
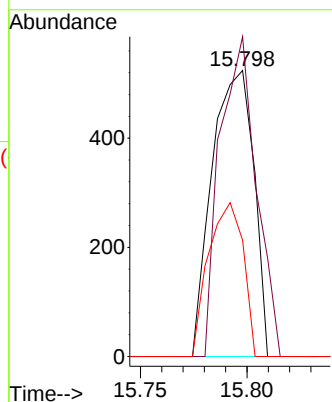


#42
2,4,6-Tribromophenol
Concen: 4.00 ng
RT: 15.798 min Scan# 2178
Delta R.T. 0.000 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

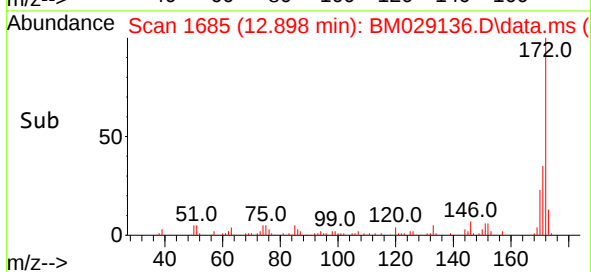
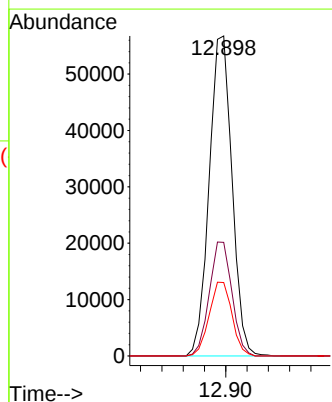
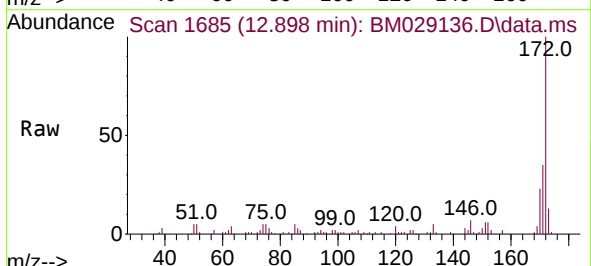


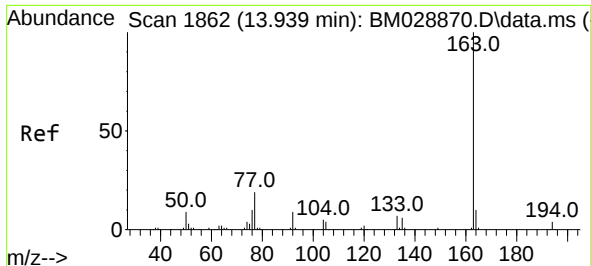
Tgt Ion:330 Resp: 713
Ion Ratio Lower Upper
330 100
332 97.1 77.8 116.8
141 44.7 28.4 42.6#



#45
2-Fluorobiphenyl
Concen: 74.67 ng
RT: 12.898 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:172 Resp: 84449
Ion Ratio Lower Upper
172 100
171 35.5 27.8 41.8
170 23.0 18.6 27.8

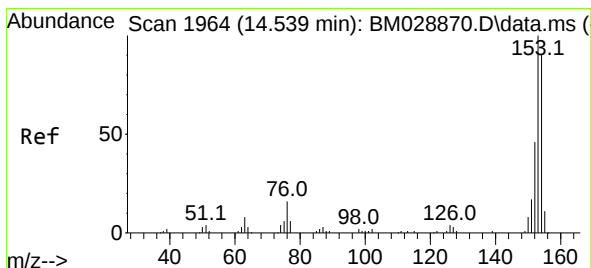
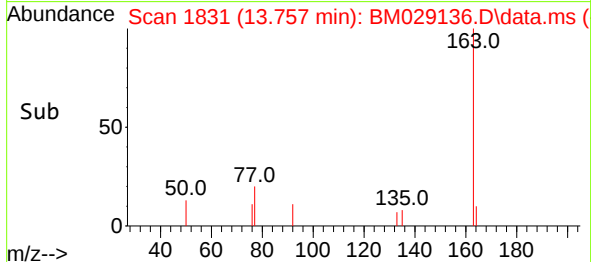
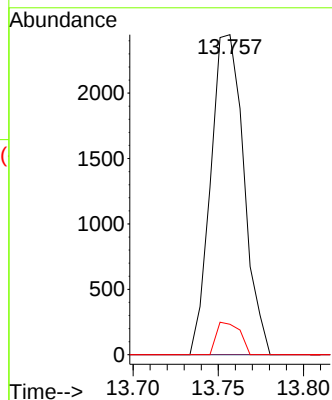
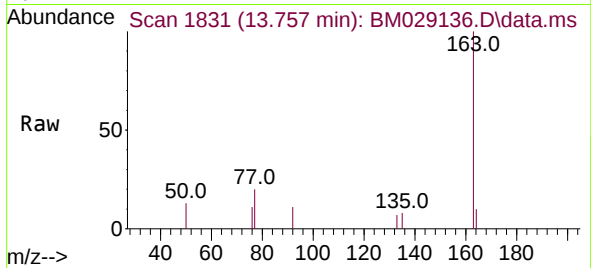




#50
Dimethylphthalate
Concen: 2.90 ng
RT: 13.757 min Scan# 1831
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

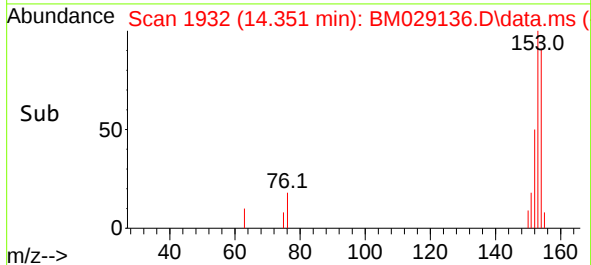
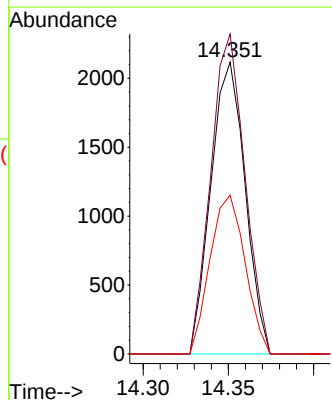
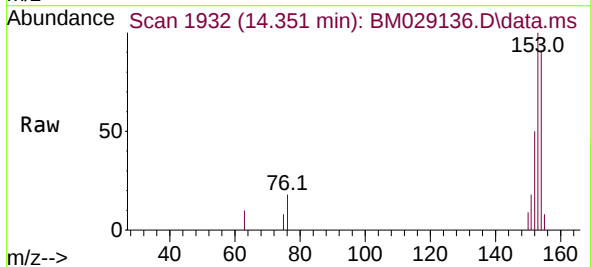
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D2470-D2800(SOIL)-A

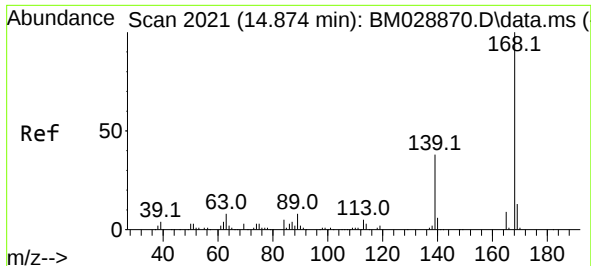
Tgt Ion:163 Resp: 3309
Ion Ratio Lower Upper
163 100
194 0.0 3.4 5.2#
164 9.5 8.1 12.1



#52
Acenaphthene
Concen: 3.19 ng
RT: 14.351 min Scan# 1932
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:154 Resp: 2961
Ion Ratio Lower Upper
154 100
153 109.6 88.3 132.5
152 54.4 41.4 62.2

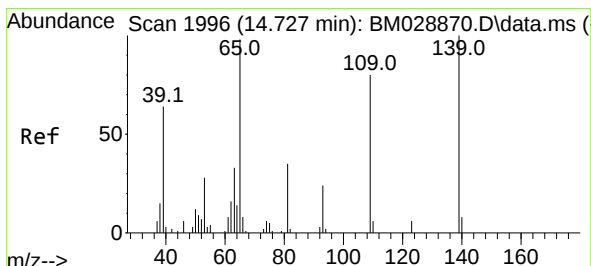
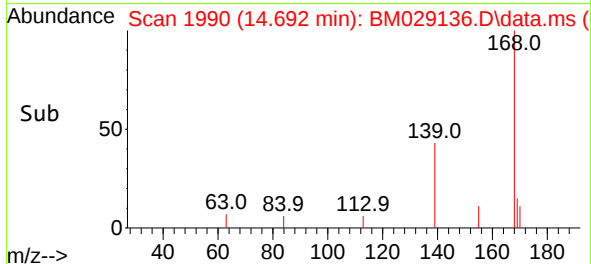
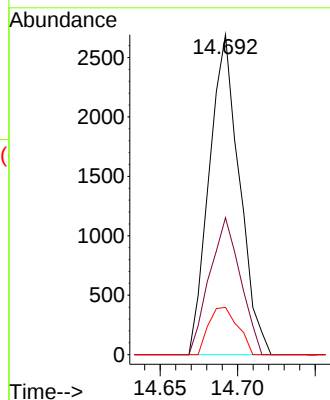
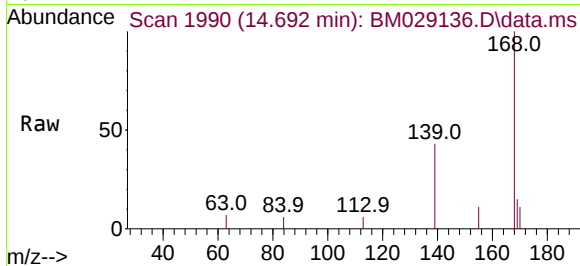




#55
Dibenzenofuran
Concen: 2.51 ng
RT: 14.692 min Scan# 1990
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

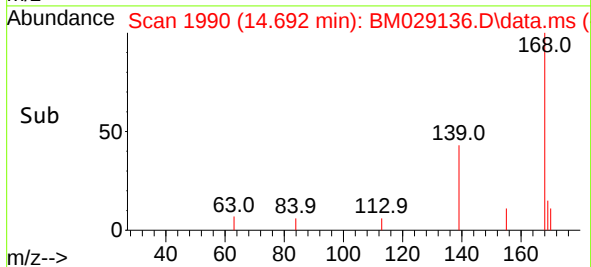
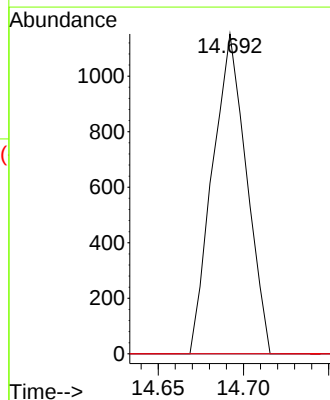
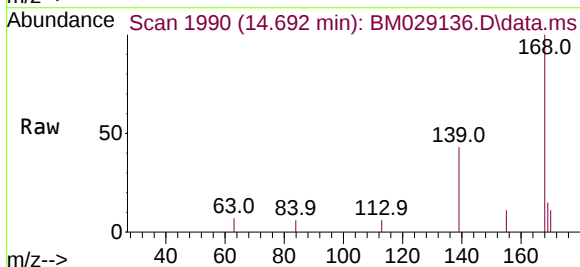
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

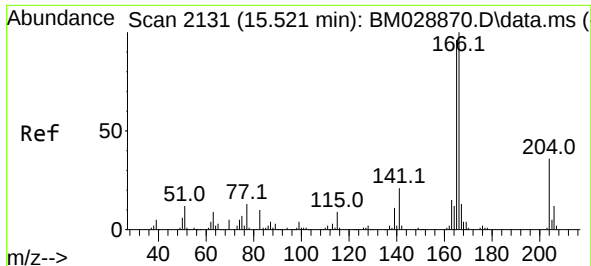
Tgt Ion:168	Resp:	3652
Ion	Ratio	Lower Upper
168	100	
139	42.8	30.2 45.4
169	14.8	10.6 16.0



#56
4-Nitrophenol
Concen: 7.50 ng
RT: 14.692 min Scan# 1990
Delta R.T. 0.118 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:139	Resp:	1595
Ion	Ratio	Lower Upper
139	100	
109	0.0	77.0 117.0#
65	0.0	103.4 143.4#

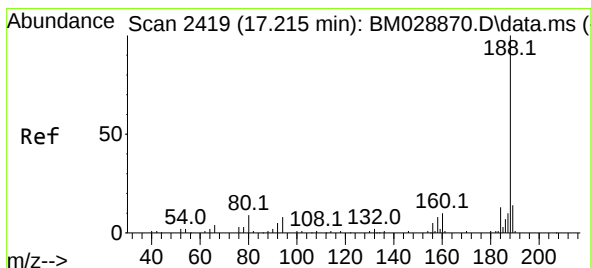
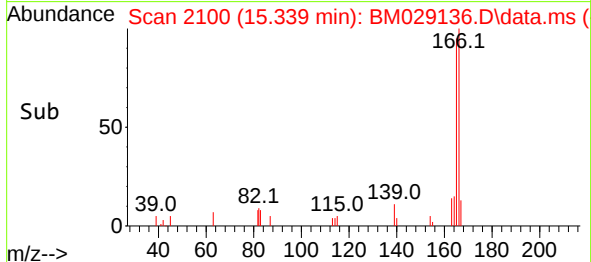
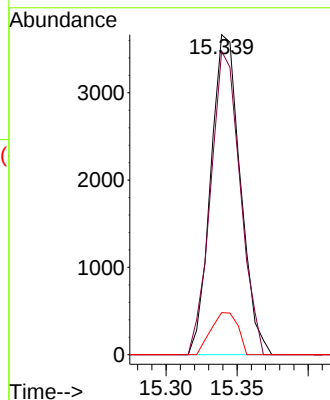
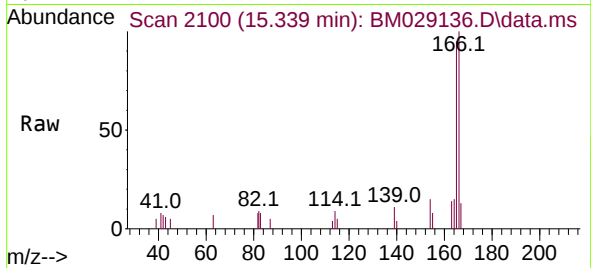




#58
Fluorene
Concen: 4.56 ng
RT: 15.339 min Scan# 2100
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

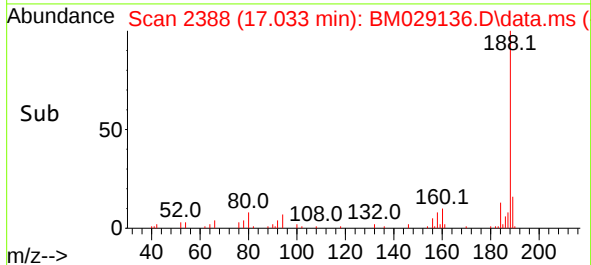
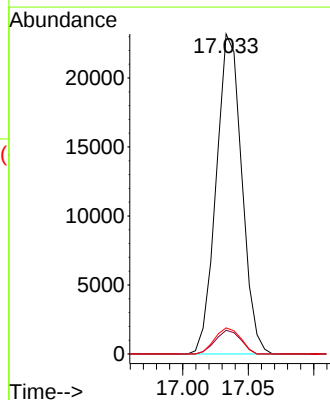
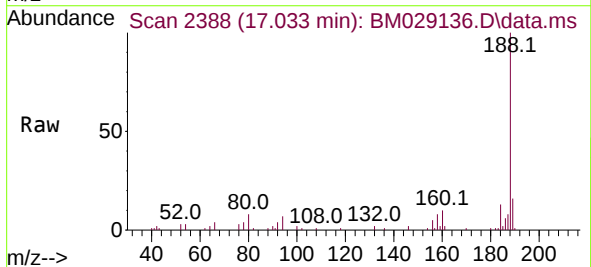
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

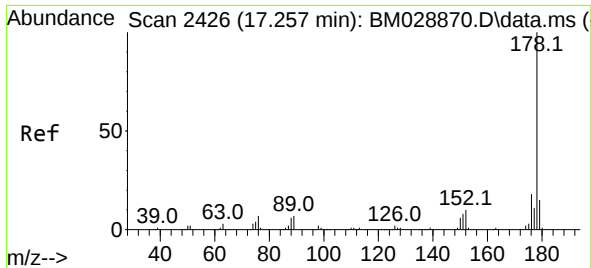
Tgt Ion:166 Resp: 5323
Ion Ratio Lower Upper
166 100
165 94.8 76.2 114.2
167 13.1 10.7 16.1



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.033 min Scan# 2388
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:188 Resp: 31377
Ion Ratio Lower Upper
188 100
94 7.4 6.2 9.4
80 8.1 7.5 11.3

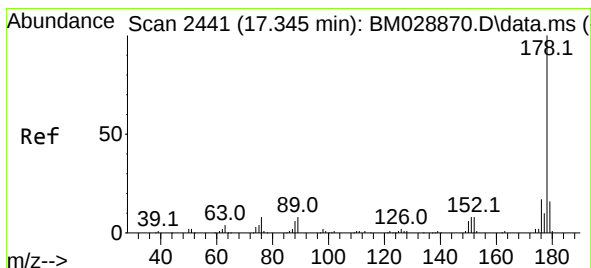
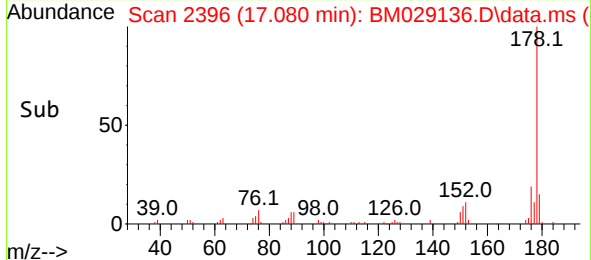
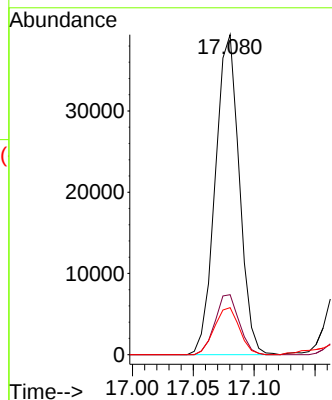
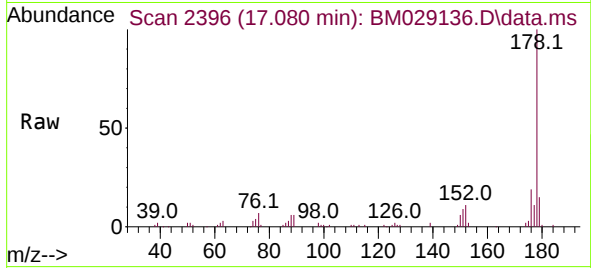




#71
Phenanthrene
Concen: 28.87 ng
RT: 17.080 min Scan# 2396
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

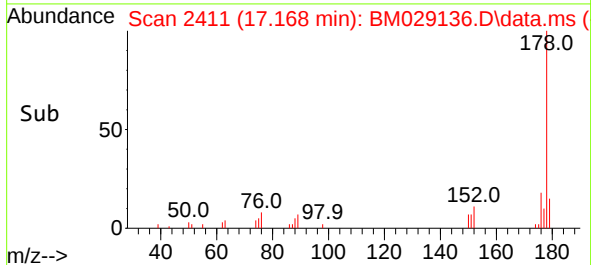
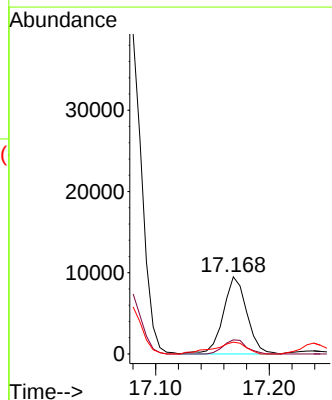
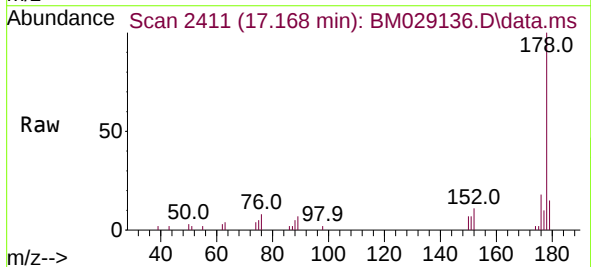
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

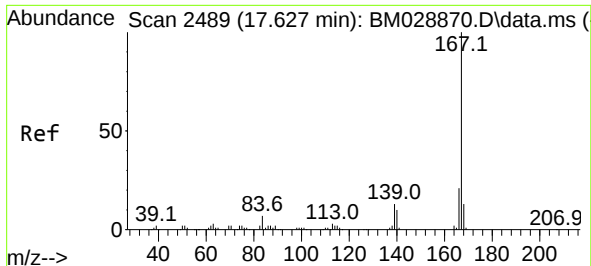
Tgt Ion:178 Resp: 53944
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 14.7 12.2 18.4



#72
Anthracene
Concen: 7.41 ng
RT: 17.168 min Scan# 2411
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:178 Resp: 13717
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.4
179 15.3 12.5 18.7

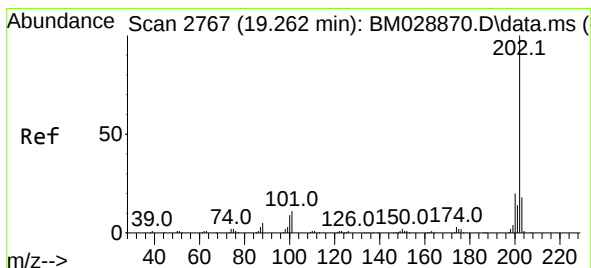
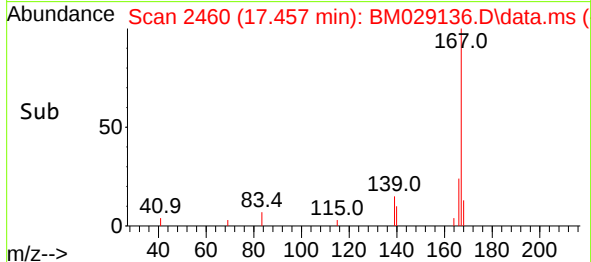
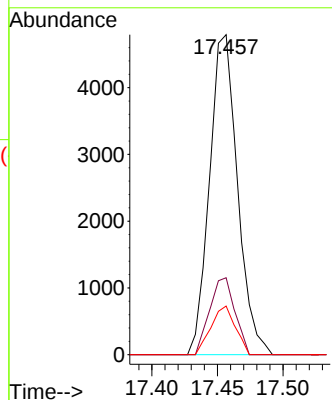
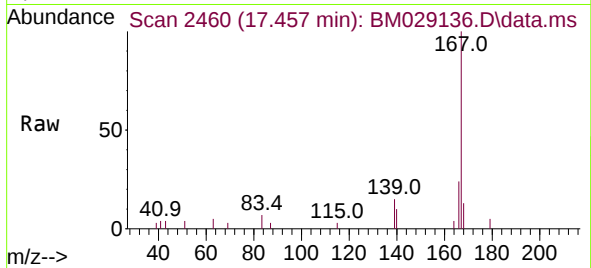




#73
 Carbazole
 Concen: 4.01 ng
 RT: 17.457 min Scan# 2460
 Delta R.T. -0.006 min
 Lab File: BM029136.D
 Acq: 15 Mar 2021 18:49

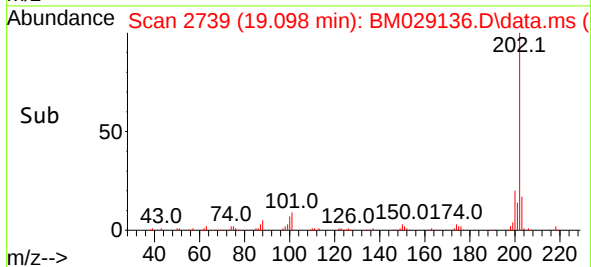
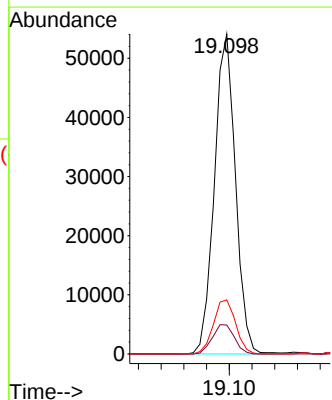
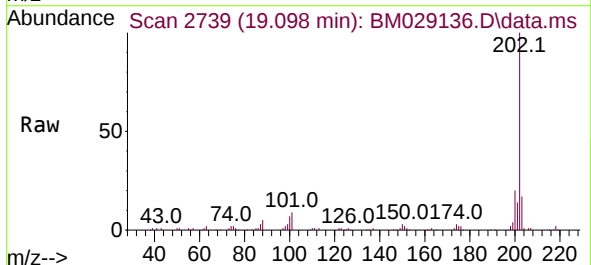
Instrument :
 BNA_M
 ClientSampleId :
 D2470-D2800(SOIL)-A

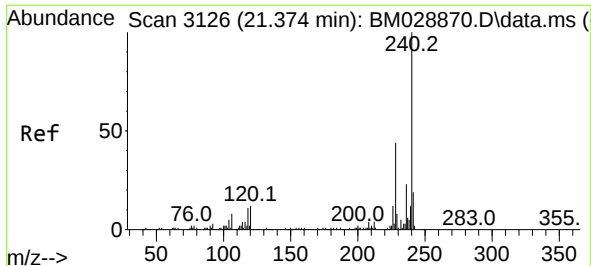
Tgt Ion:167 Resp: 7125
 Ion Ratio Lower Upper
 167 100
 166 24.0 16.9 25.3
 139 15.2 9.9 14.9#



#75
 Fluoranthene
 Concen: 33.92 ng
 RT: 19.098 min Scan# 2739
 Delta R.T. -0.006 min
 Lab File: BM029136.D
 Acq: 15 Mar 2021 18:49

Tgt Ion:202 Resp: 69639
 Ion Ratio Lower Upper
 202 100
 101 9.1 0.0 28.5
 203 16.9 0.0 37.3

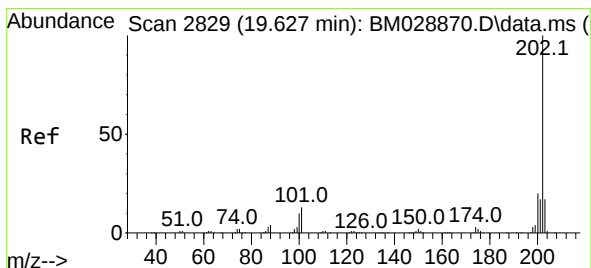
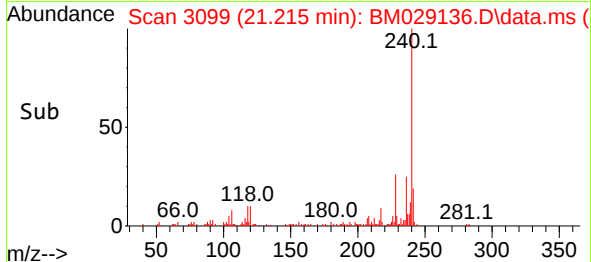
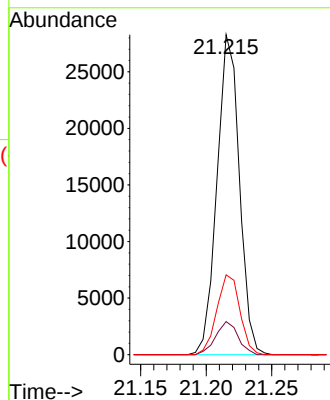
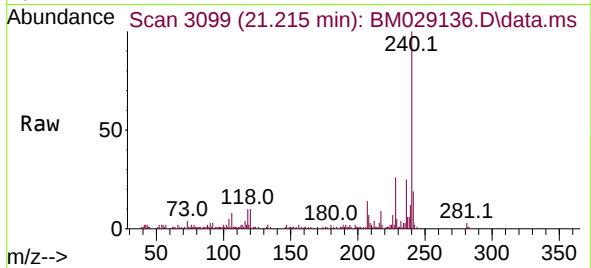




#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.215 min Scan# 3099
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

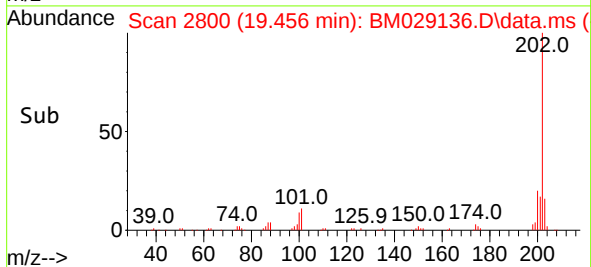
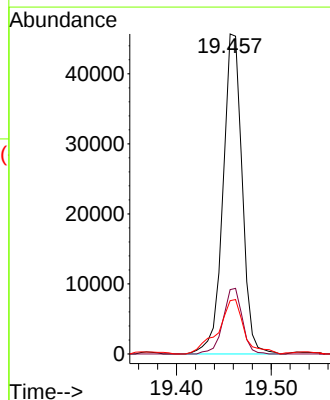
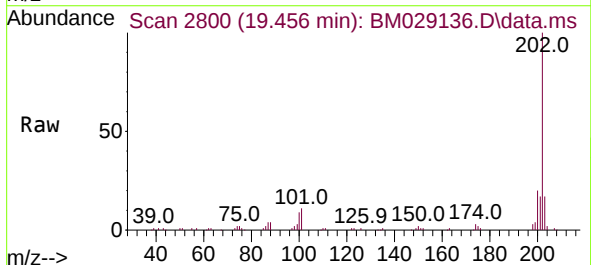
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

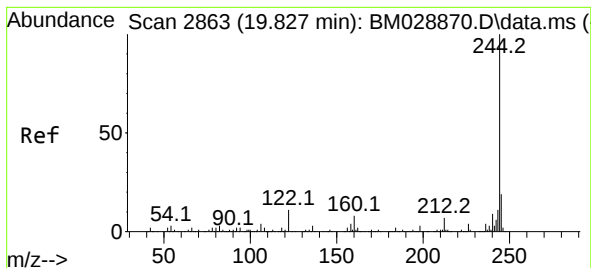
Tgt Ion:240 Resp: 33458
Ion Ratio Lower Upper
240 100
120 10.4 6.4 9.6#
236 25.0 20.1 30.1



#78
Pyrene
Concen: 26.14 ng
RT: 19.456 min Scan# 2800
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:202 Resp: 64260
Ion Ratio Lower Upper
202 100
200 20.1 16.6 24.8
203 16.7 13.8 20.6





#79

Terphenyl-d14

Concen: 64.32 ng

RT: 19.668 min Scan# 2836

Delta R.T. -0.006 min

Lab File: BM029136.D

Acq: 15 Mar 2021 18:49

Tgt Ion:244 Resp: 116543

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

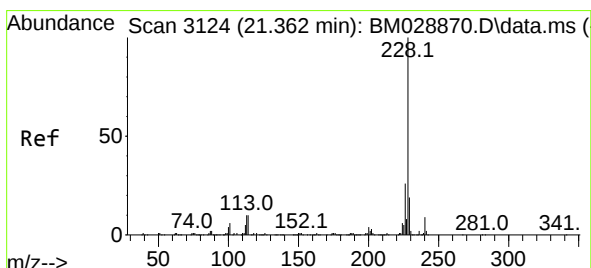
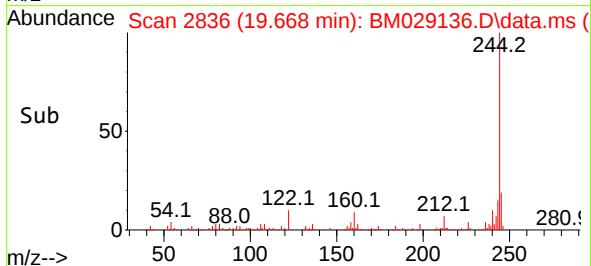
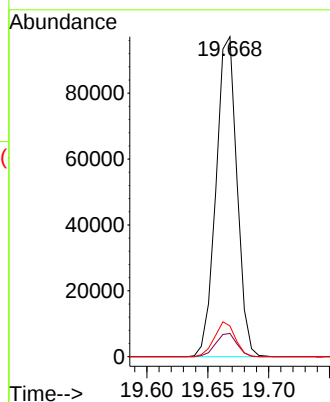
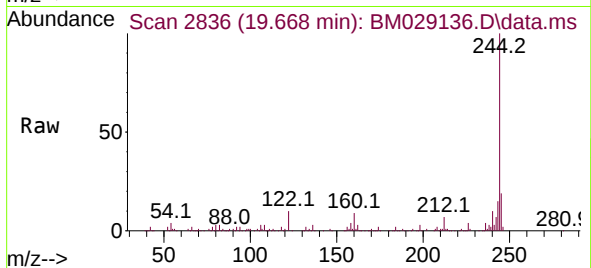
122 9.6 6.5 9.7

Instrument :

BNA_M

ClientSampleId :

D2470-D2800(SOIL)-A



#81

Benzo(a)anthracene

Concen: 14.27 ng

RT: 21.203 min Scan# 3097

Delta R.T. -0.006 min

Lab File: BM029136.D

Acq: 15 Mar 2021 18:49

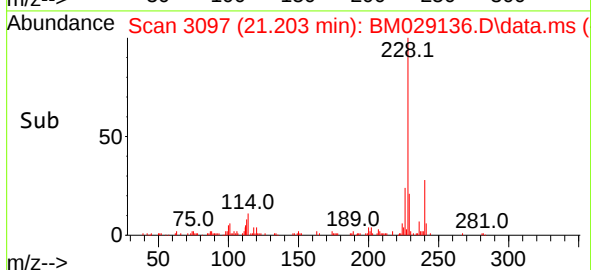
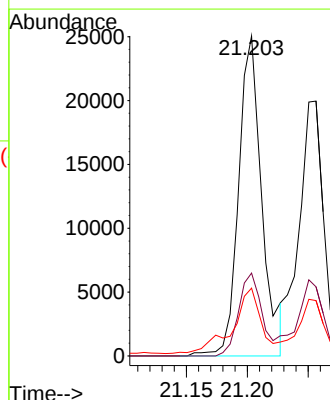
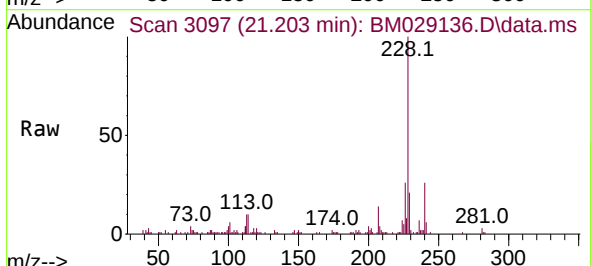
Tgt Ion:228 Resp: 33145

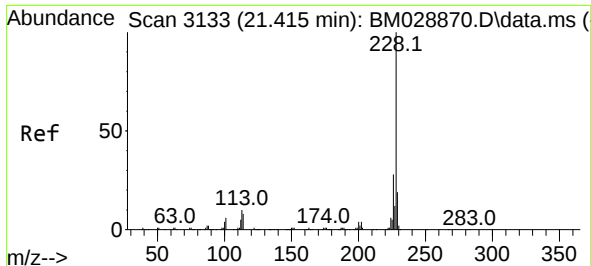
Ion Ratio Lower Upper

228 100

226 25.9 21.1 31.7

229 21.2 15.7 23.5

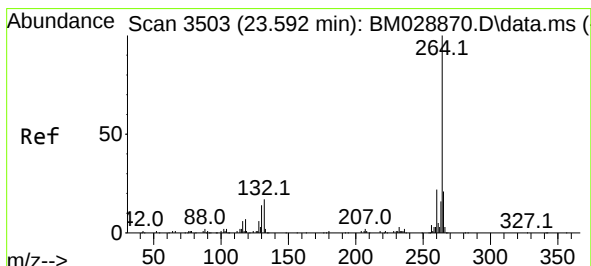
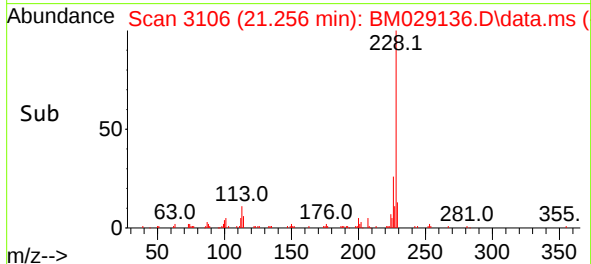
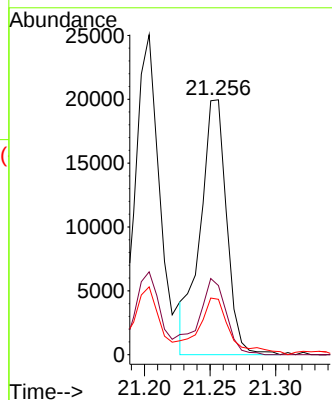
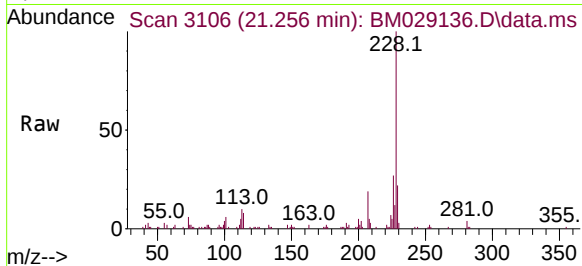




#83
Chrysene
Concen: 12.40 ng
RT: 21.256 min Scan# 3106
Delta R.T. -0.006 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

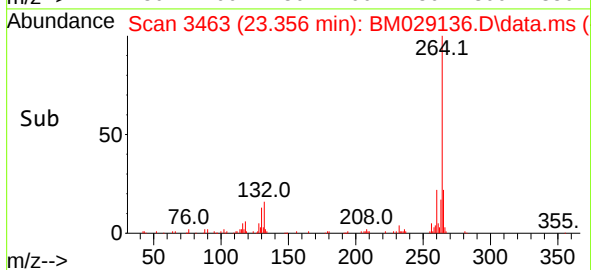
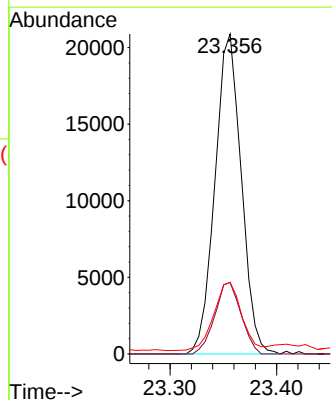
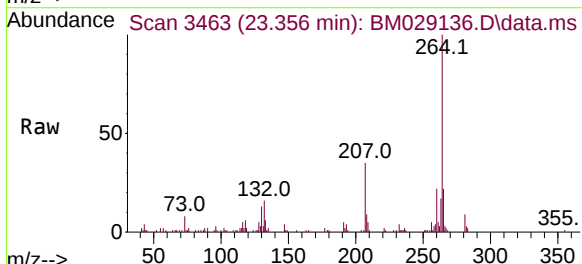
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

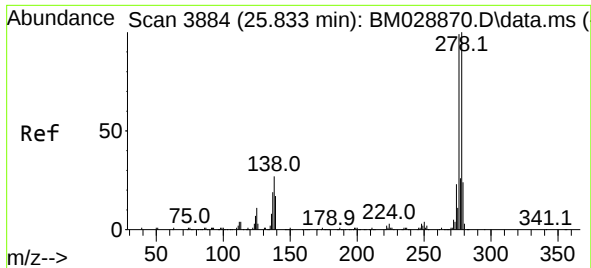
Tgt Ion:228	Resp:	28059
Ion Ratio	Lower	Upper
228	100	
226	27.1	23.4 35.0
229	21.7	15.7 23.5



#86
Perylene-d12
Concen: 20.00 ng
RT: 23.356 min Scan# 3463
Delta R.T. -0.012 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:264	Resp:	35763
Ion Ratio	Lower	Upper
264	100	
260	22.4	19.0 28.4
265	22.4	17.7 26.5

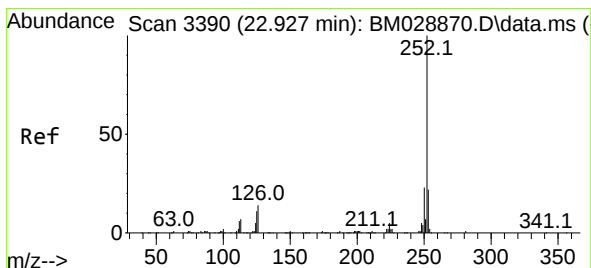
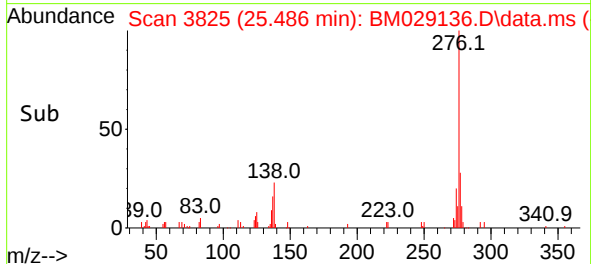
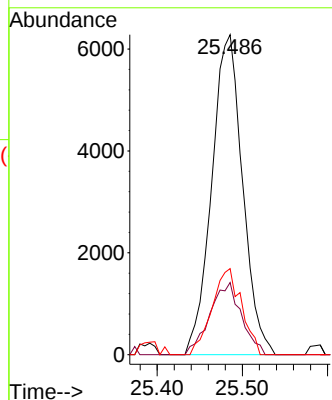
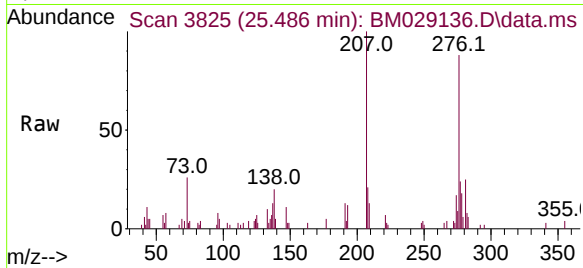




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 5.86 ng
 RT: 25.486 min Scan# 3825
 Delta R.T. -0.023 min
 Lab File: BM029136.D
 Acq: 15 Mar 2021 18:49

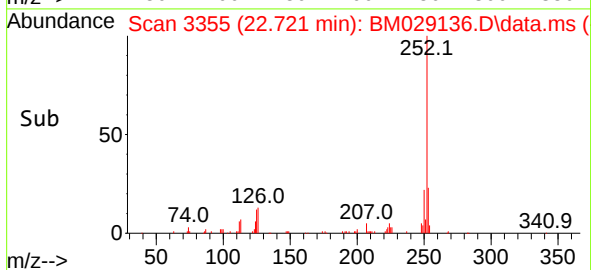
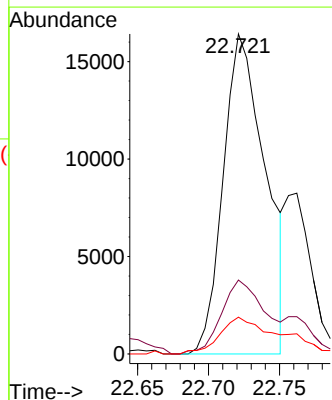
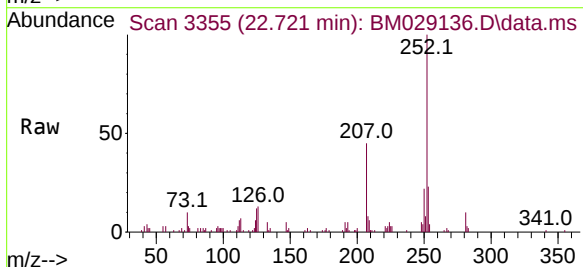
Instrument :
 BNA_M
 ClientSampleId :
 D2470-D2800(SOIL)-A

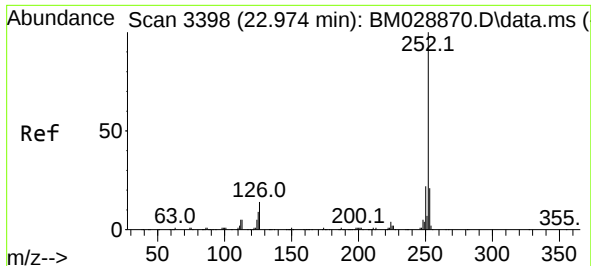
Tgt Ion:276 Resp: 15803
 Ion Ratio Lower Upper
 276 100
 138 23.0 14.2 21.4#
 277 25.6 19.8 29.8



#88
 Benzo(b)fluoranthene
 Concen: 13.38 ng
 RT: 22.721 min Scan# 3355
 Delta R.T. -0.012 min
 Lab File: BM029136.D
 Acq: 15 Mar 2021 18:49

Tgt Ion:252 Resp: 33795
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.4 26.0
 125 11.5 5.7 8.5#

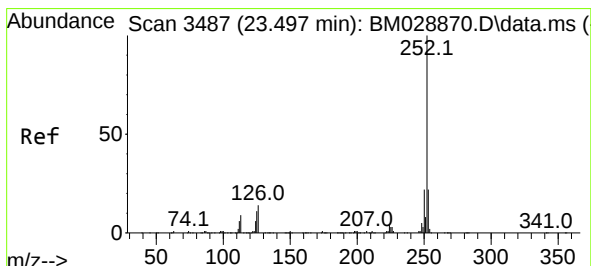
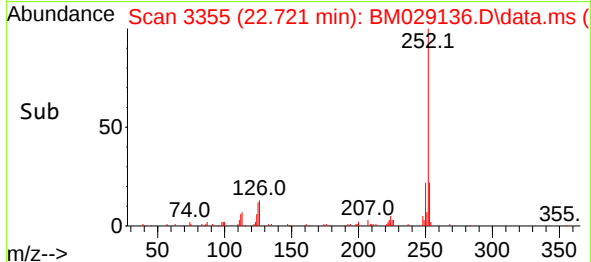
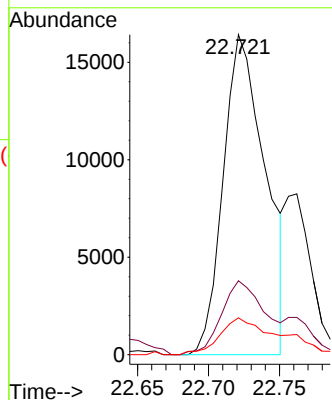
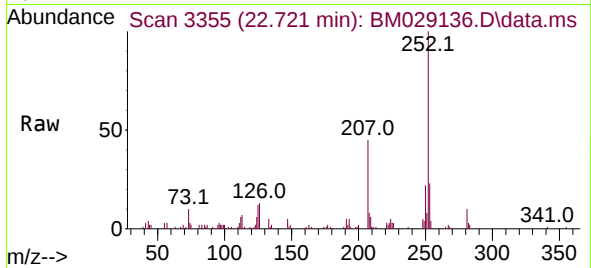




#89
Benzo(k)fluoranthene
Concen: 14.08 ng
RT: 22.721 min Scan# 3355
Delta R.T. -0.053 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

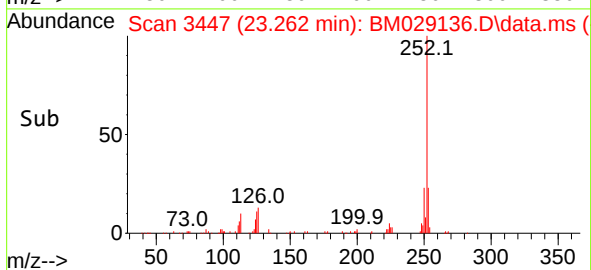
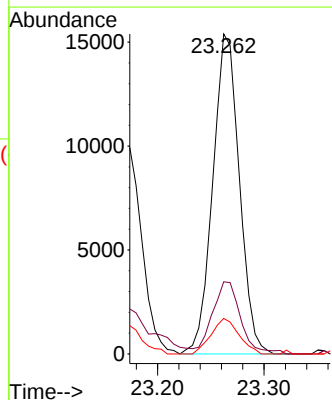
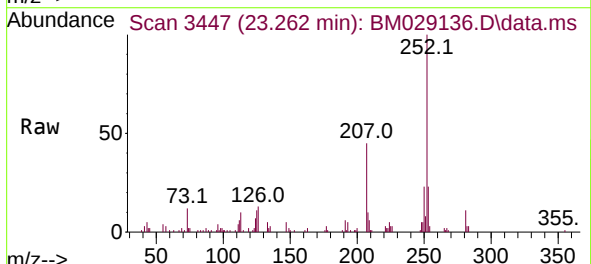
Instrument :
BNA_M
ClientSampleId :
D2470-D2800(SOIL)-A

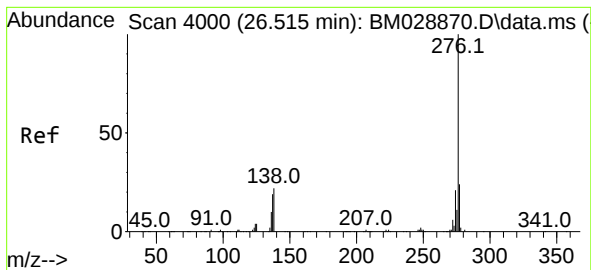
Tgt Ion:252 Resp: 33795
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 11.5 5.6 8.4#



#90
Benzo(a)pyrene
Concen: 11.56 ng
RT: 23.262 min Scan# 3447
Delta R.T. -0.017 min
Lab File: BM029136.D
Acq: 15 Mar 2021 18:49

Tgt Ion:252 Resp: 26655
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 11.1 6.6 9.8#





#92
 Benzo(g,h,i)perylene
 Concen: 6.83 ng
 RT: 26.133 min Scan# 3935
 Delta R.T. -0.023 min
 Lab File: BM029136.D
 Acq: 15 Mar 2021 18:49

Instrument :
 BNA_M
 ClientSampleId :
 D2470-D2800(SOIL)-A

Tgt Ion:	276	Resp:	15457
Ion Ratio	Lower	Upper	
276	100		
277	22.4	18.6	28.0
138	21.2	12.2	18.2#

