

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM011922\
 Data File : BM033784.D
 Acq On : 19 Jan 2022 15:36
 Operator : CG/JU
 Sample : N1152-01DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 VACLOT-TOPSOIL-01DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2022
 Supervised By : Jagrut Upadhyay 01/20/2022

Quant Time: Jan 19 16:22:16 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM011722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 17 16:30:56 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.948	152	205317	20.000	ng	0.00
21) Naphthalene-d8	10.760	136	803963	20.000	ng	-0.01
39) Acenaphthene-d10	14.589	164	457490	20.000	ng	0.00
64) Phenanthrene-d10	17.324	188	883498	20.000	ng	0.00
76) Chrysene-d12	21.489	240	816581	20.000	ng	0.00
86) Perylene-d12	23.900	264	884401	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.496	112	494384	40.460	ng	0.00
7) Phenol-d6	7.101	99	615389	35.749	ng	-0.02
23) Nitrobenzene-d5	9.107	82	415697	25.446	ng	-0.02
42) 2,4,6-Tribromophenol	16.065	330	194049	31.286	ng	-0.01
45) 2-Fluorobiphenyl	13.219	172	808616	24.866	ng	0.00
79) Terphenyl-d14	19.936	244	933349	18.954	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	10.813	128	271710	6.261	ng	99
37) 2-Methylnaphthalene	12.419	142	88031	2.831	ng	98
52) Acenaphthene	14.648	154	172100	6.048	ng	99
55) Dibenzofuran	14.983	168	160241	3.768	ng	99
58) Fluorene	15.630	166	249205	7.435	ng	99
71) Phenanthrene	17.365	178	2174126	44.204	ng	99
72) Anthracene	17.454	178	631244	13.050	ng	99
73) Carbazole	17.718	167	273524	5.794	ng	99
75) Fluoranthene	19.377	202	2920575	53.031	ng	99
78) Pyrene	19.736	202	2601387	43.120	ng	98
81) Benzo(a)anthracene	21.477	228	1419882	26.271	ng	96
83) Chrysene	21.530	228	1393766m	26.998	ng	
87) Indeno(1,2,3-cd)pyrene	26.418	276	970286	16.502	ng	97
88) Benzo(b)fluoranthene	23.165	252	1877651	33.258	ng	# 94
89) Benzo(k)fluoranthene	23.212	252	525234m	9.289	ng	
90) Benzo(a)pyrene	23.794	252	1449086	31.399	ng	98
91) Dibenzo(a,h)anthracene	26.424	278	241634	4.865	ng	# 82
92) Benzo(g,h,i)perylene	27.194	276	976545	20.662	ng	# 96

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

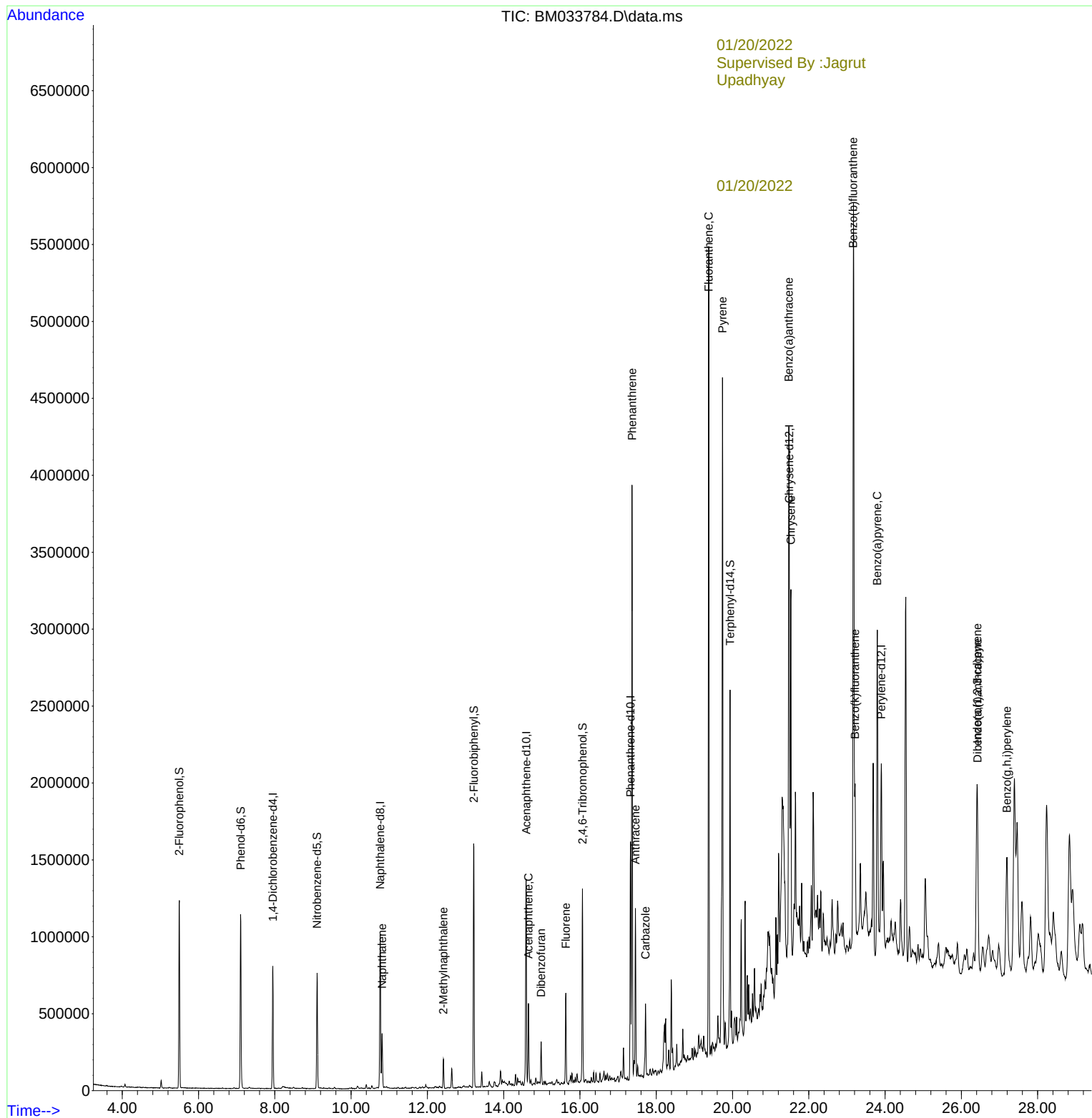
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM011922\
Data File : BM033784.D
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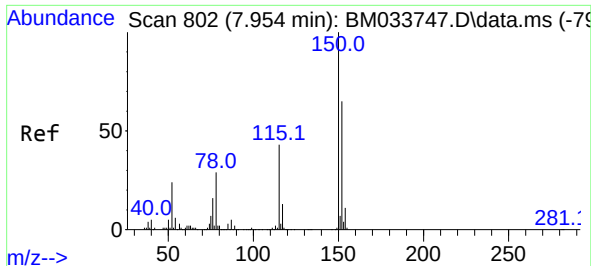
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM011722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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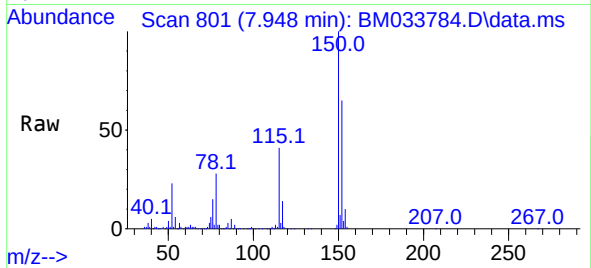
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Supervised By : Jagrut Upadhyay 01/20/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.948 min Scan# 801
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

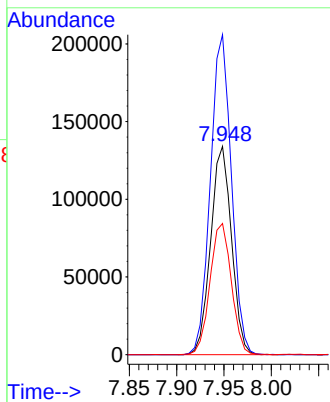
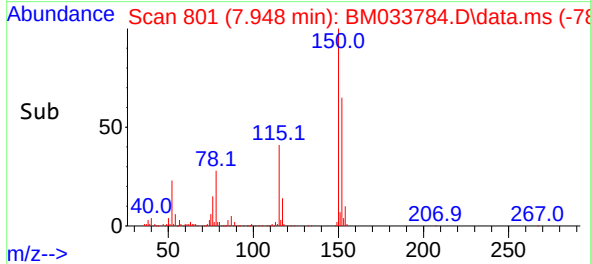
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:152 Resp: 205317
Ion Ratio Lower Upper
152 100
150 153.6 128.9 193.3
115 63.0 53.0 79.6

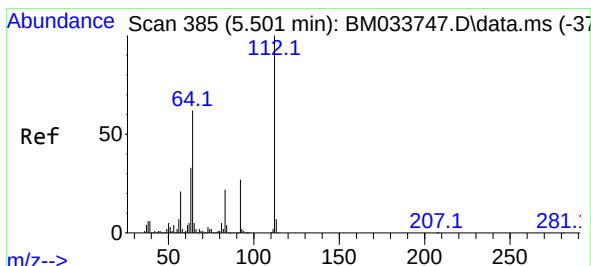
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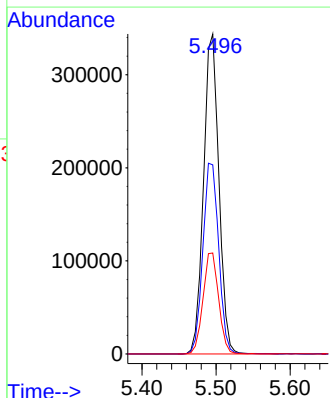
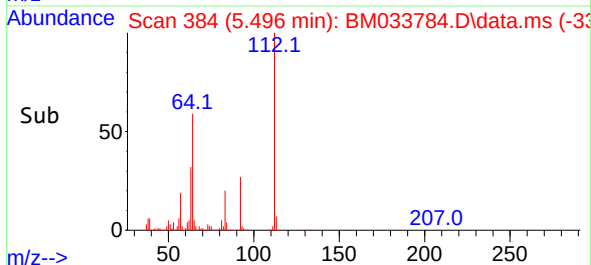
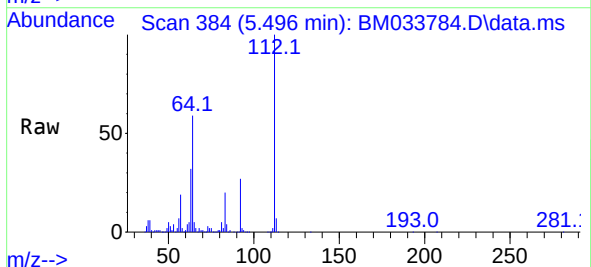
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Upadhyay

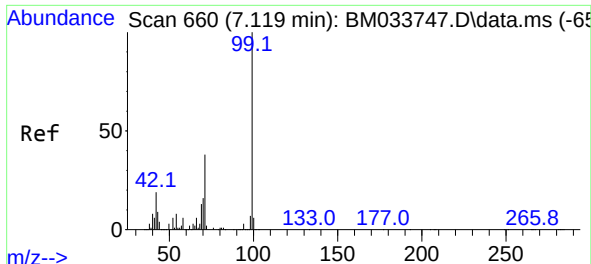
01/20/2022



#5
2-Fluorophenol
Concen: 40.460 ng
RT: 5.496 min Scan# 384
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Tgt Ion:112 Resp: 494384
Ion Ratio Lower Upper
112 100
64 59.1 55.5 83.3
63 31.6 31.3 46.9





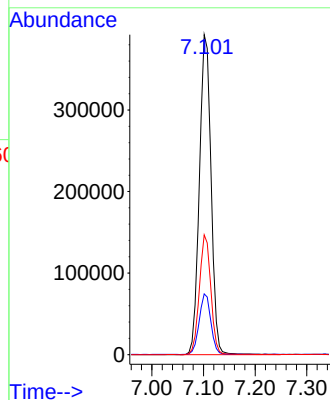
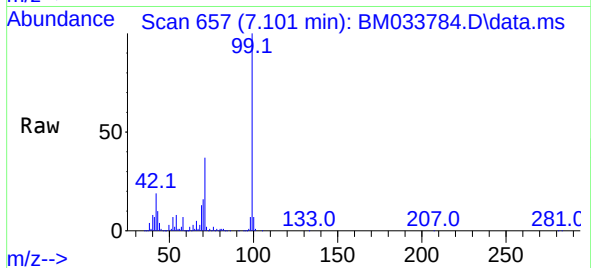
#7
Phenol-d6
Concen: 35.749 ng
RT: 7.101 min Scan# 61
Delta R.T. -0.018 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL

Tgt Ion: 99 Resp: 615389
Ion Ratio Lower Upper
99 100
42 19.0 20.3 30.5
71 37.4 34.5 51.7

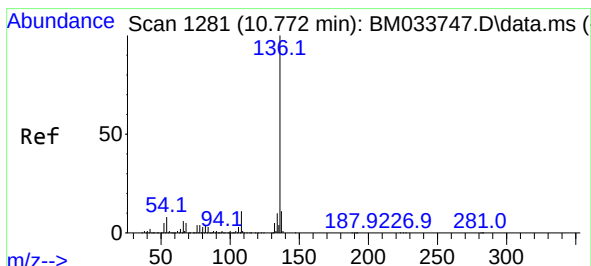
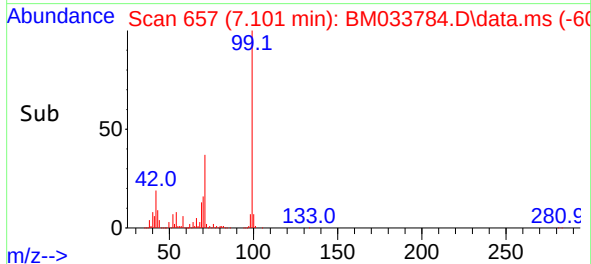
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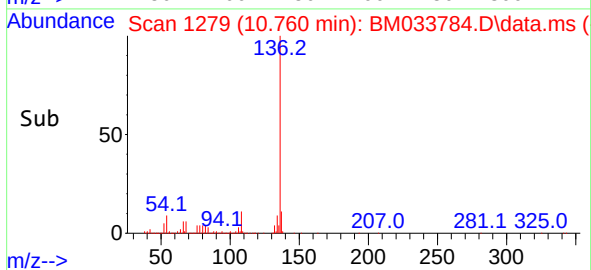
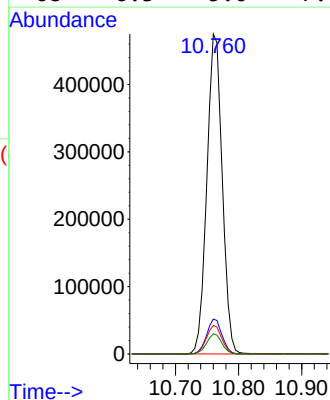
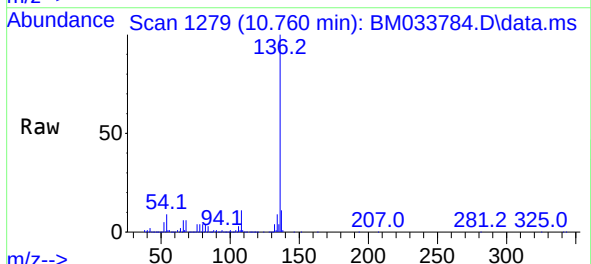
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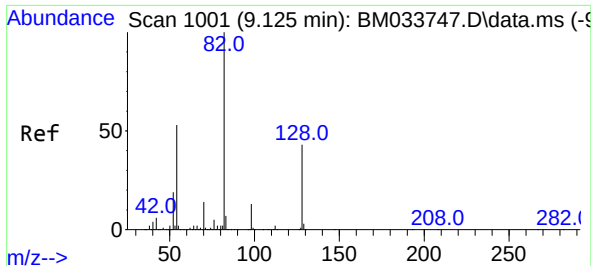
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.760 min Scan# 1279
Delta R.T. -0.012 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Tgt Ion:136 Resp: 803963
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.9 8.3 12.5
68 6.3 5.0 7.6





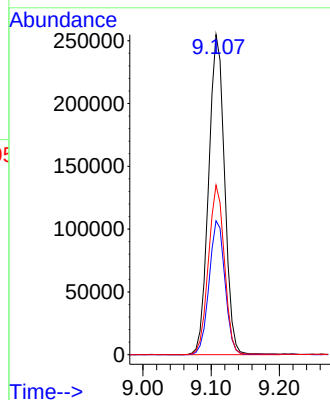
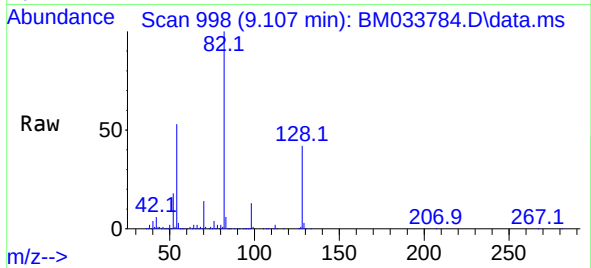
#23
Nitrobenzene-d5
Concen: 25.446 ng
RT: 9.107 min Scan# 91
Delta R.T. -0.018 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL

Tgt Ion: 82 Resp: 41569
Ion Ratio Lower Upper
82 100
128 41.9 28.1 42.1
54 53.0 46.1 69.1

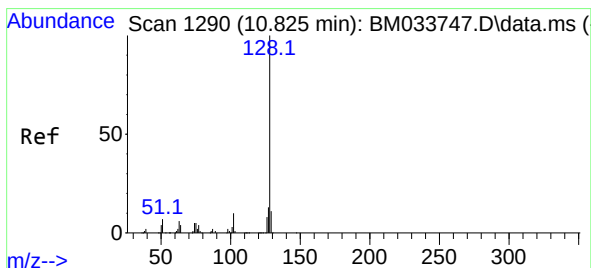
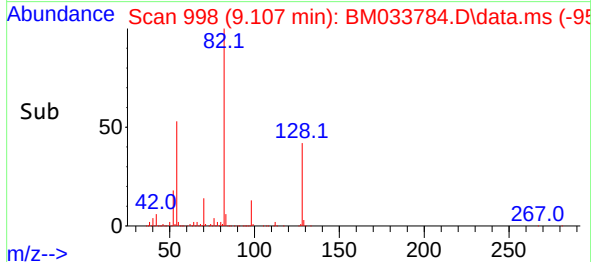
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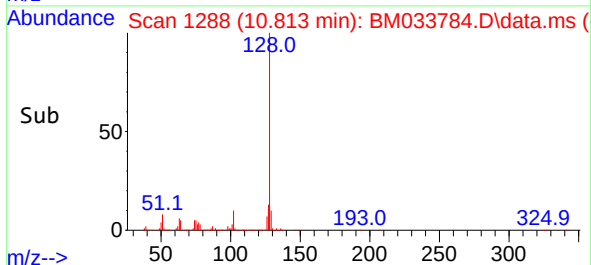
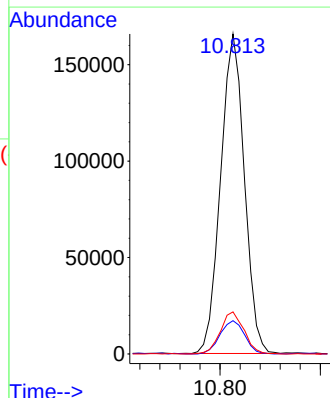
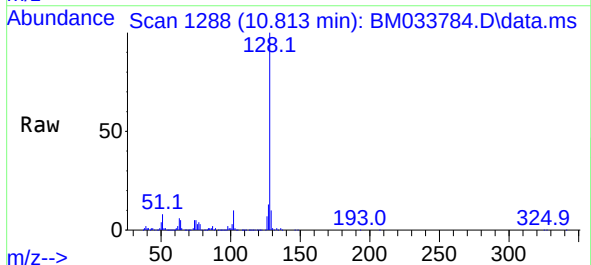
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Upadhyay

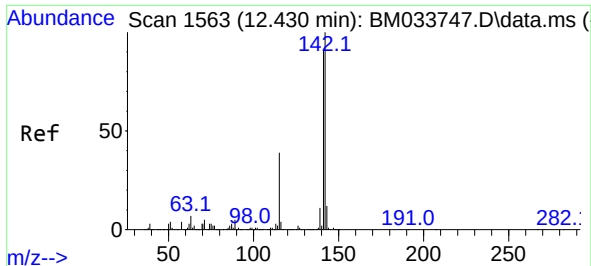
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#31
Naphthalene
Concen: 6.261 ng
RT: 10.813 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Tgt Ion:128 Resp: 271710
Ion Ratio Lower Upper
128 100
129 10.4 8.5 12.7
127 13.1 10.8 16.2





#37

2-Methylnaphthalene

Concen: 2.831 ng

RT: 12.419 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM033784.D

Acq: 19 Jan 2022 15:36

Instrument :

BNA_M

ClientSampleId :

VACLOT-TOPSOIL-01DL

Tgt Ion:142 Resp: 8803

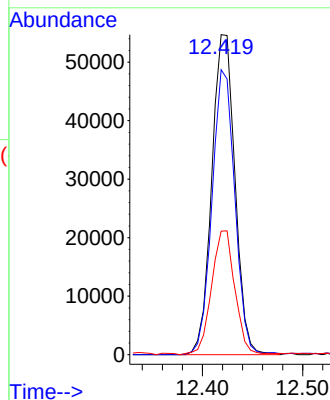
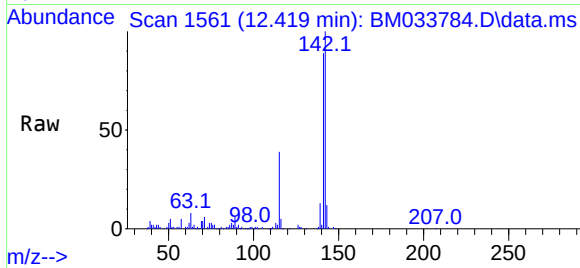
Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.2
115	38.6	33.0	49.6

Manual Integrations

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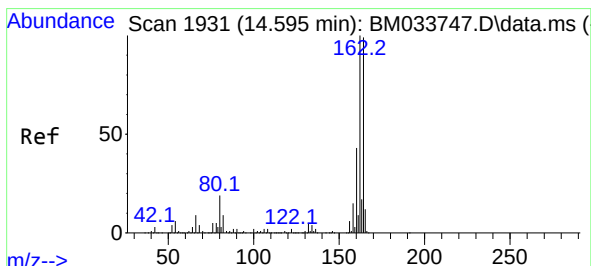
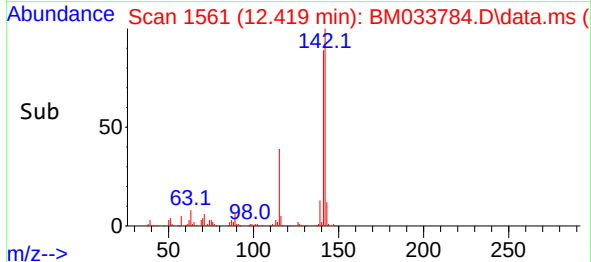
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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.589 min Scan# 1930

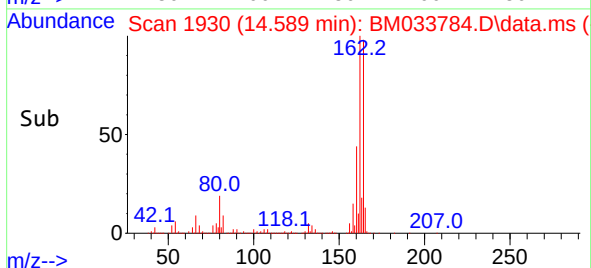
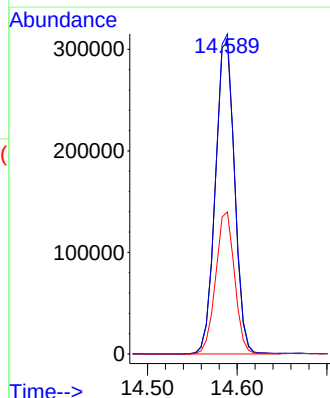
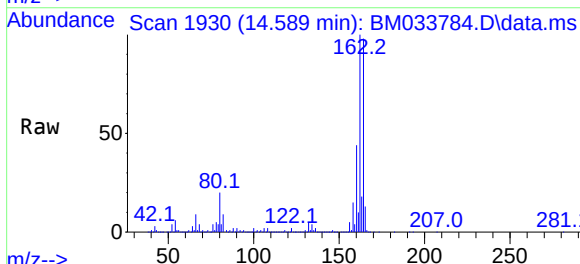
Delta R.T. -0.006 min

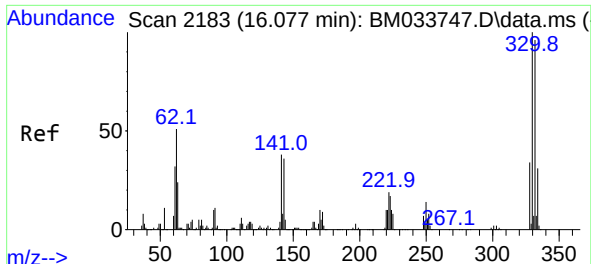
Lab File: BM033784.D

Acq: 19 Jan 2022 15:36

Tgt Ion:164 Resp: 457490

Ion	Ratio	Lower	Upper
164	100		
162	102.3	79.7	119.5
160	45.5	34.2	51.4





#42

2,4,6-Tribromophenol

Concen: 31.286 ng

RT: 16.065 min Scan# 2181

Delta R.T. -0.012 min

Lab File: BM033784.D

Acq: 19 Jan 2022 15:36

Instrument :

BNA_M

ClientSampleId :

VACLOT-TOPSOIL-01DL

Tgt Ion:330 Resp: 194049

Ion Ratio Lower Upper

330 100

332 97.2 76.5 114.7

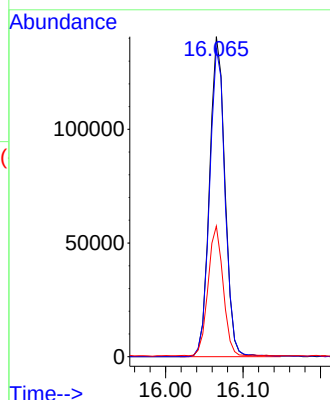
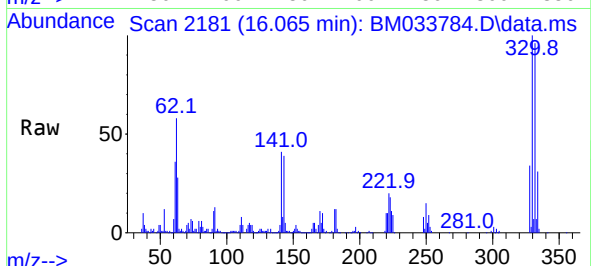
141 39.3 35.9 53.9

Manual Integrations

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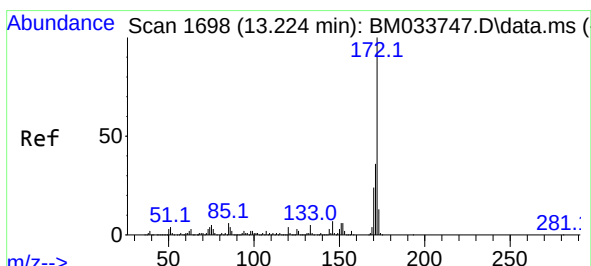
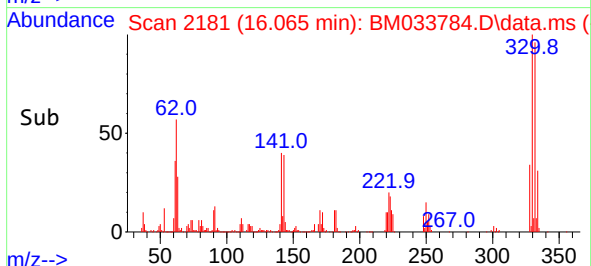
Reviewed By :Christian Giraldo 01/20/2022

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Upadhyay

01/20/2022



#45

2-Fluorobiphenyl

Concen: 24.866 ng

RT: 13.219 min Scan# 1697

Delta R.T. -0.006 min

Lab File: BM033784.D

Acq: 19 Jan 2022 15:36

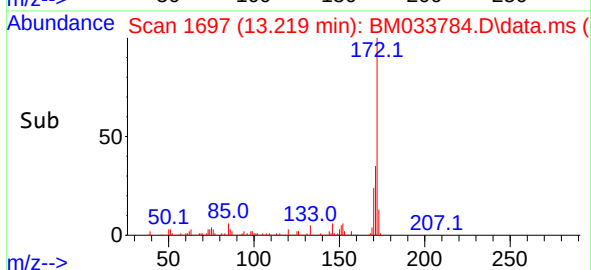
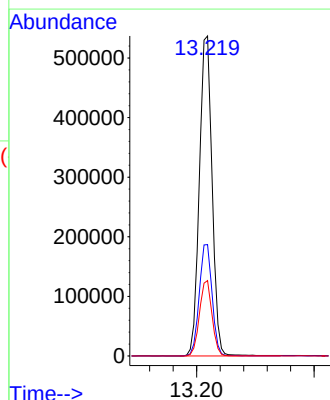
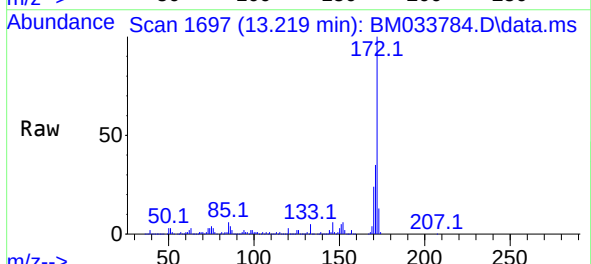
Tgt Ion:172 Resp: 808616

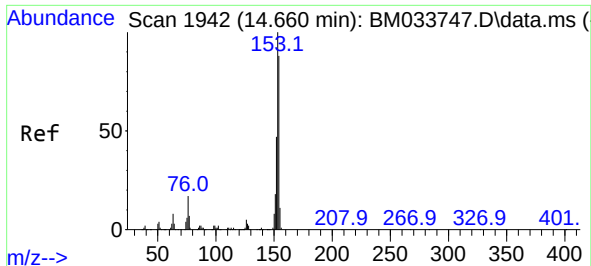
Ion Ratio Lower Upper

172 100

171 34.8 27.2 40.8

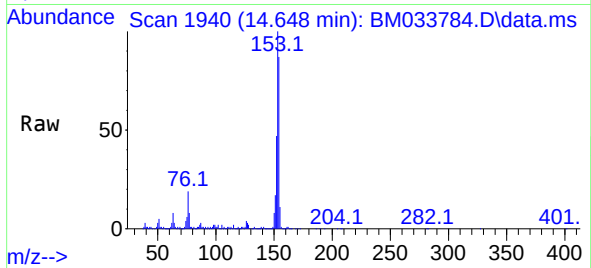
170 23.6 18.7 28.1





#52
Acenaphthene
Concen: 6.048 ng
RT: 14.648 min Scan# 1940
Delta R.T. -0.012 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

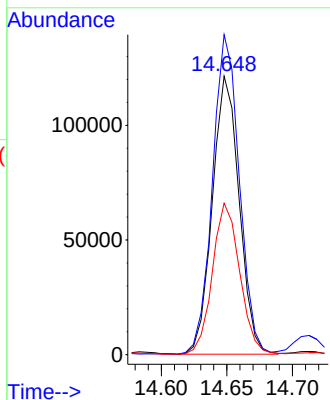
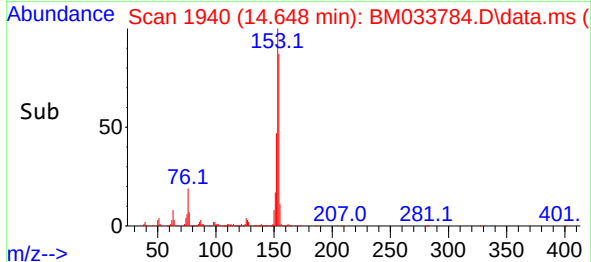
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:154 Resp: 172100
Ion Ratio Lower Upper
154 100
153 114.9 90.2 135.4
152 54.4 43.5 65.3

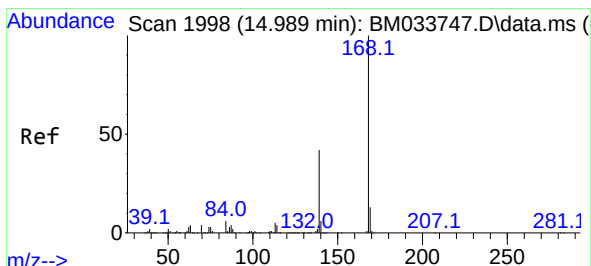
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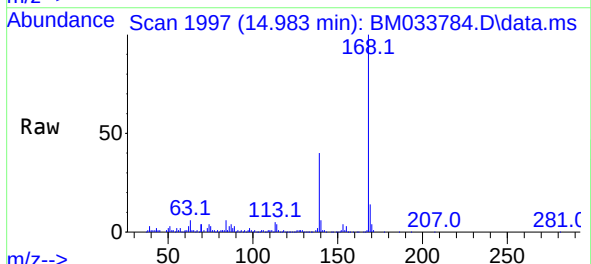


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Upadhyay

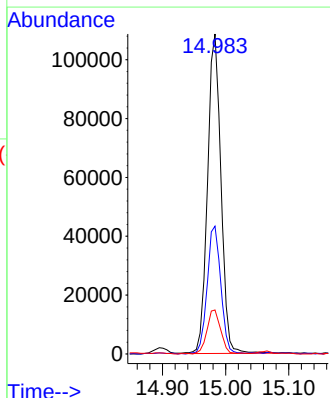
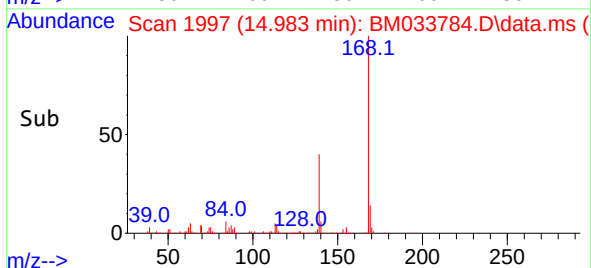
01/20/2022

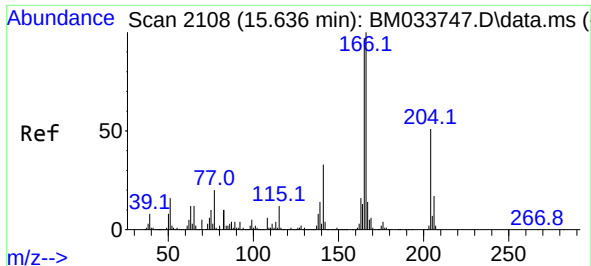


#55
Dibenzofuran
Concen: 3.768 ng
RT: 14.983 min Scan# 1997
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36



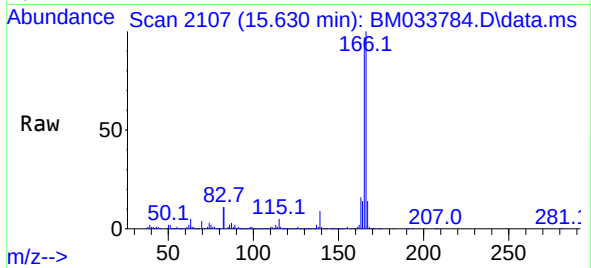
Tgt Ion:168 Resp: 160241
Ion Ratio Lower Upper
168 100
139 39.9 31.4 47.2
169 13.7 10.6 15.8





#58
Fluorene
Concen: 7.435 ng
RT: 15.630 min Scan# 2108
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

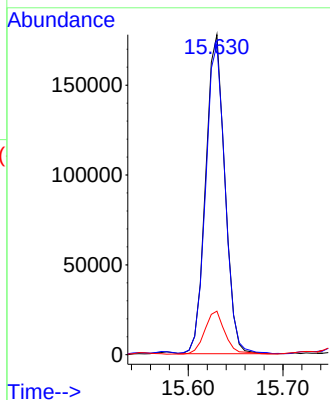
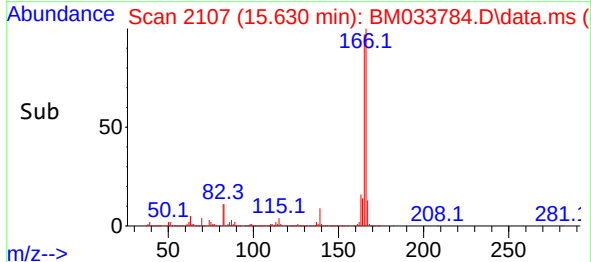
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:166 Resp: 249208
Ion Ratio Lower Upper
166 100
165 96.9 78.1 117.1
167 13.6 10.6 15.8

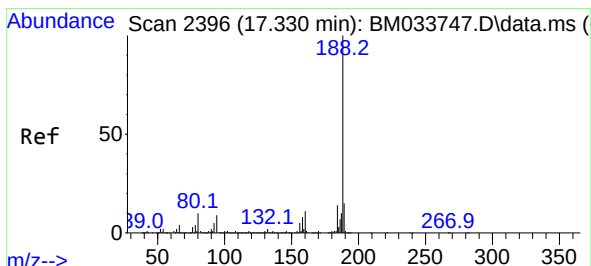
Manual Integrations
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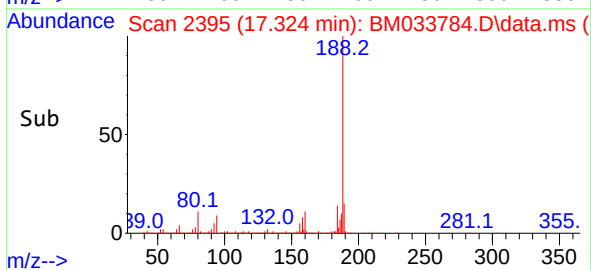
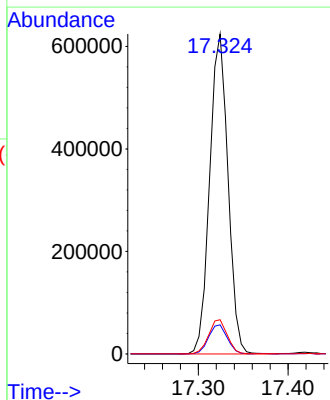
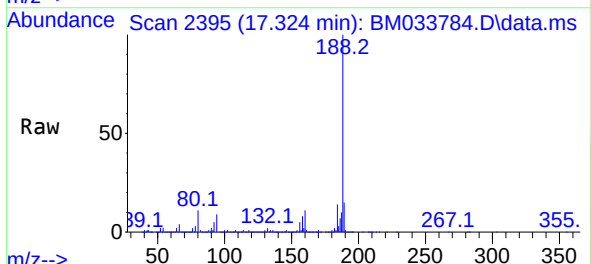
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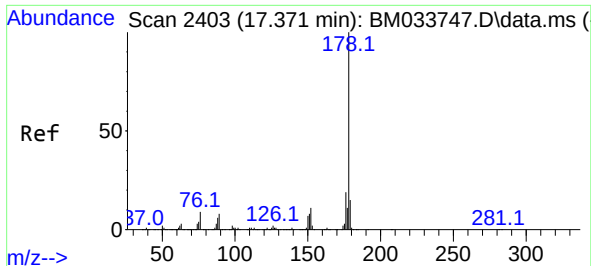
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.324 min Scan# 2395
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

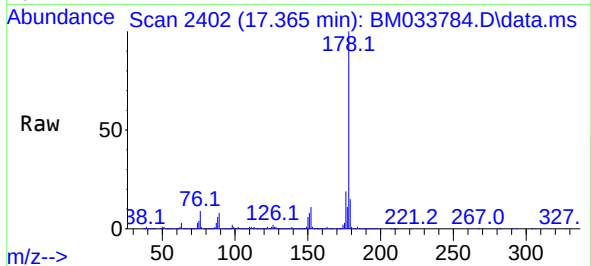
Tgt Ion:188 Resp: 883498
Ion Ratio Lower Upper
188 100
94 9.1 7.5 11.3
80 10.7 8.9 13.3





#71
Phenanthrene
Concen: 44.204 ng
RT: 17.365 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

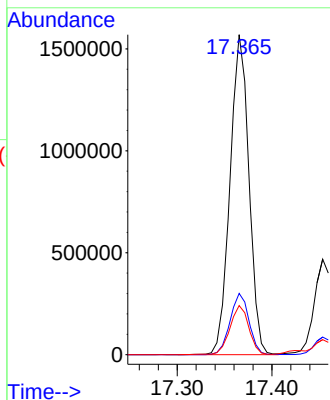
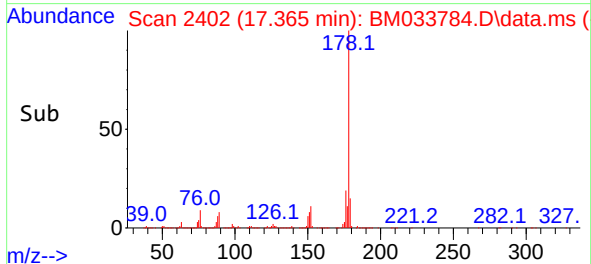
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:178 Resp: 2174120
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.3 12.0 18.0

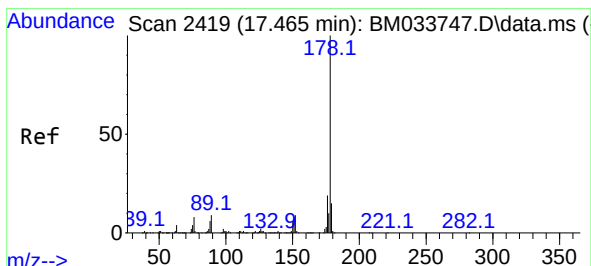
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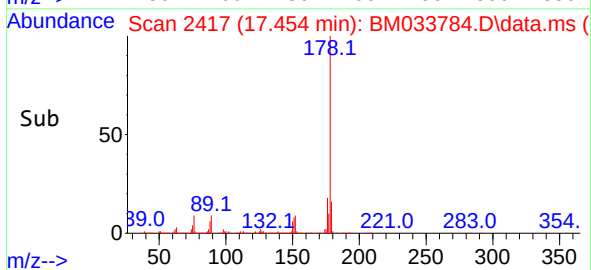
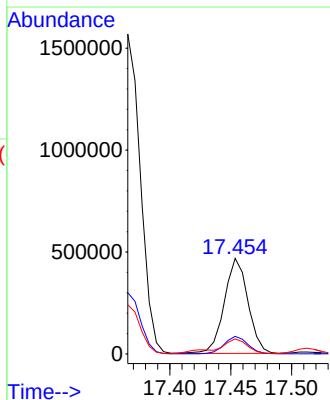
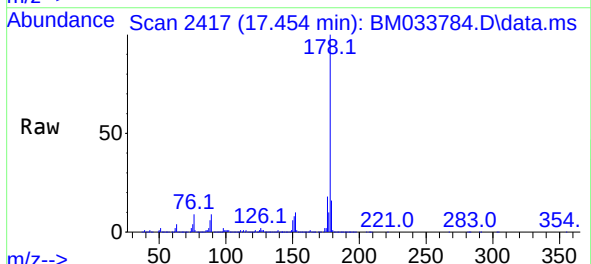
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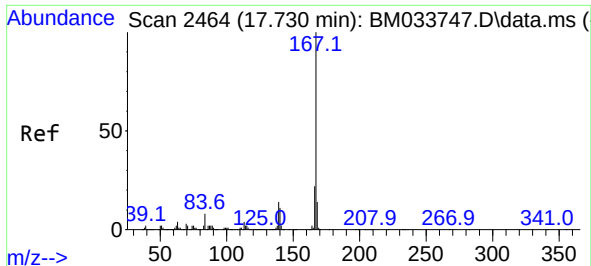
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#72
Anthracene
Concen: 13.050 ng
RT: 17.454 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

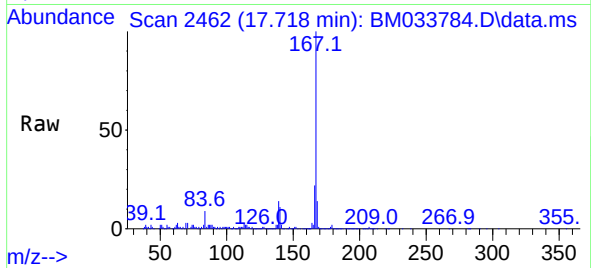
Tgt Ion:178 Resp: 631244
Ion Ratio Lower Upper
178 100
176 18.4 14.5 21.7
179 15.8 11.9 17.9





#73
 Carbazole
 Concen: 5.794 ng
 RT: 17.718 min Scan# 2462
 Delta R.T. -0.012 min
 Lab File: BM033784.D
 Acq: 19 Jan 2022 15:36

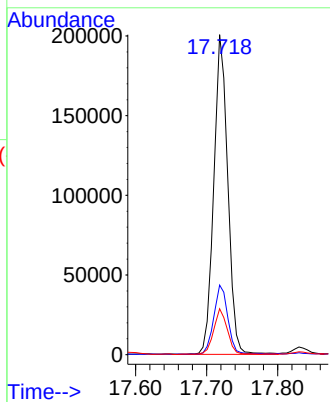
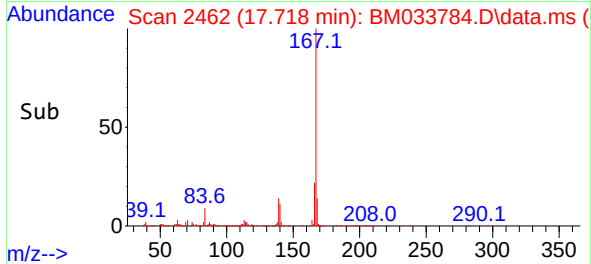
Instrument :
 BNA_M
 ClientSampleId :
 VACLOT-TOPSOIL-01DL



Tgt Ion:167 Resp: 273524
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.2 25.8
 139 14.4 11.0 16.4

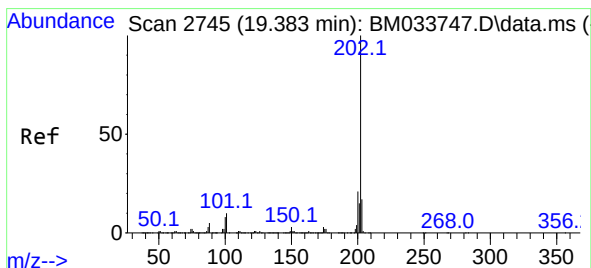
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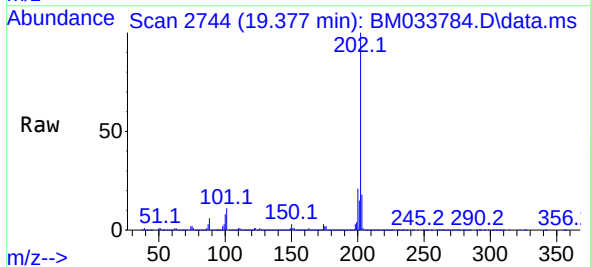


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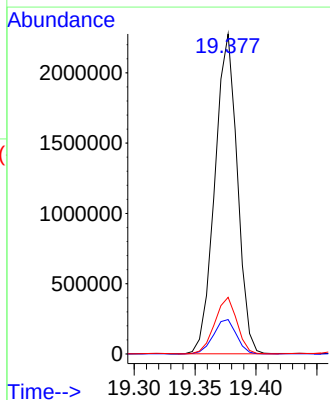
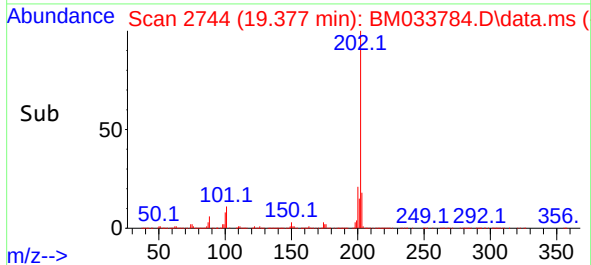
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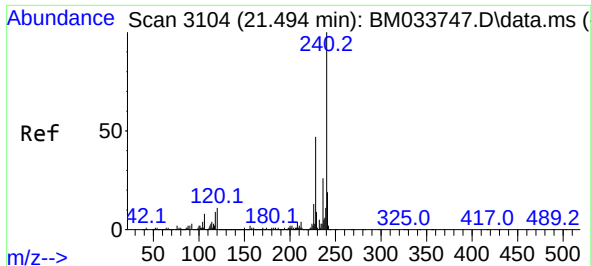


#75
 Fluoranthene
 Concen: 53.031 ng
 RT: 19.377 min Scan# 2744
 Delta R.T. -0.006 min
 Lab File: BM033784.D
 Acq: 19 Jan 2022 15:36



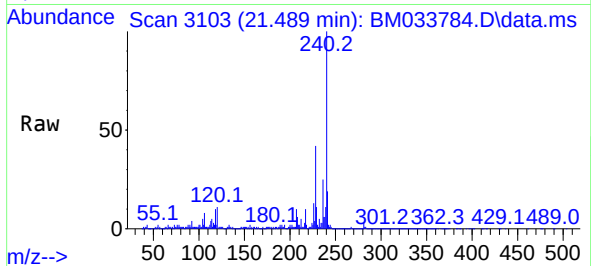
Tgt Ion:202 Resp: 2920575
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 30.8
 203 17.7 0.0 37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3104
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

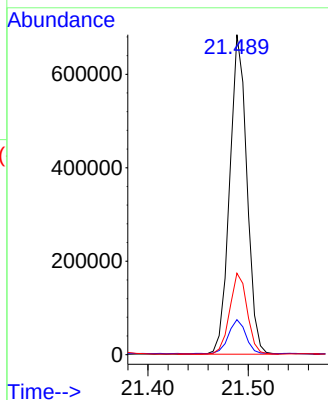
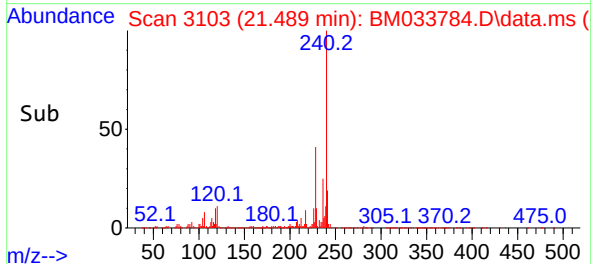
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:240 Resp: 81658
Ion Ratio Lower Upper
240 100
120 11.0 7.8 11.6
236 25.5 20.3 30.5

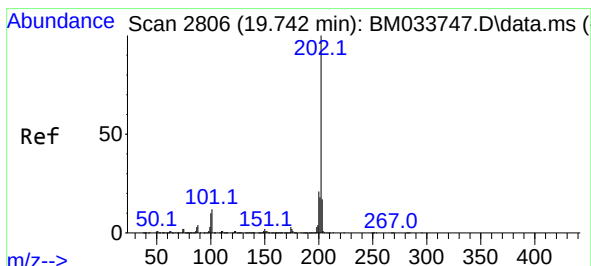
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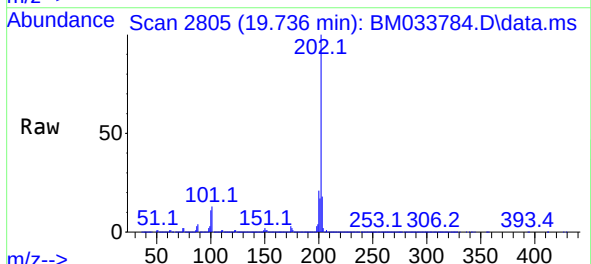


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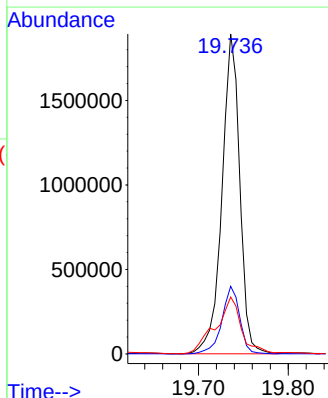
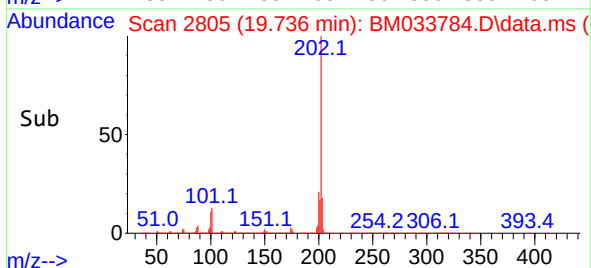
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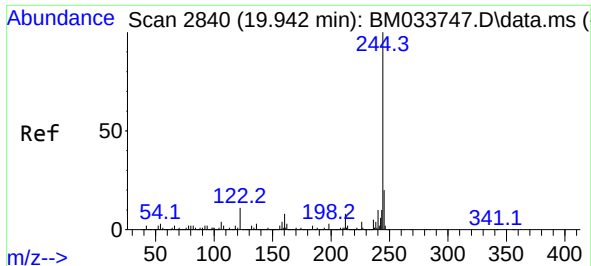


#78
Pyrene
Concen: 43.120 ng
RT: 19.736 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36



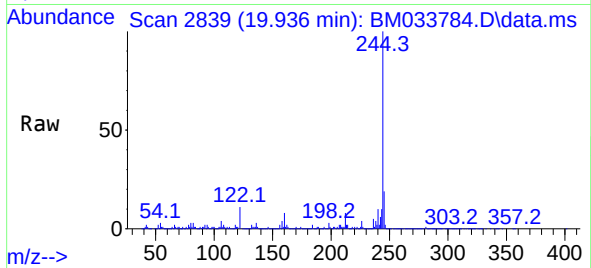
Tgt Ion:202 Resp: 2601387
Ion Ratio Lower Upper
202 100
200 21.1 16.4 24.6
203 17.8 13.5 20.3





#79
Terphenyl-d14
Concen: 18.954 ng
RT: 19.936 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

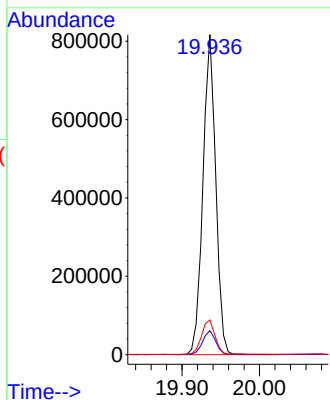
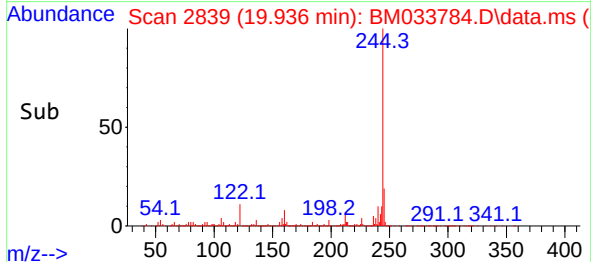
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:244 Resp: 933349
Ion Ratio Lower Upper
244 100
212 7.5 5.9 8.9
122 10.8 8.4 12.6

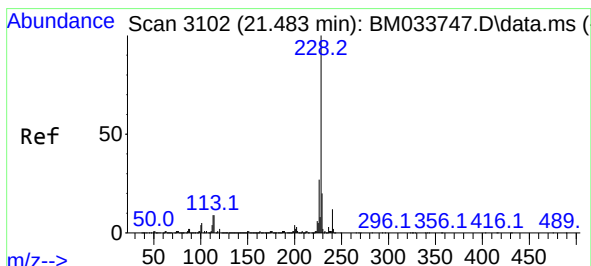
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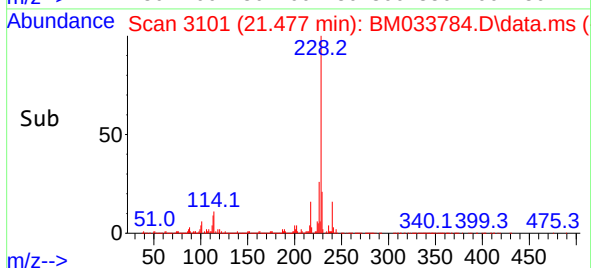
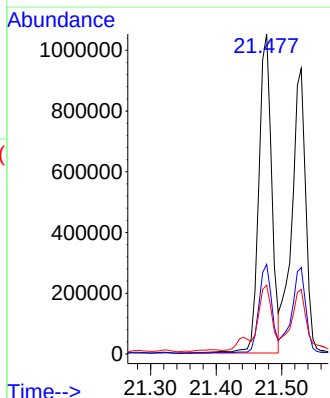
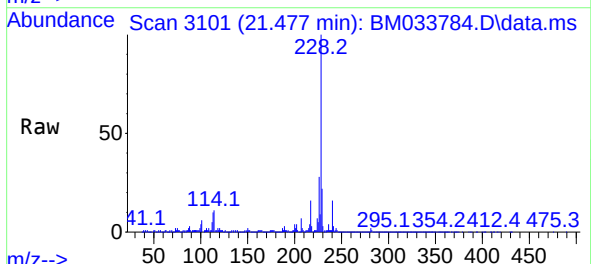
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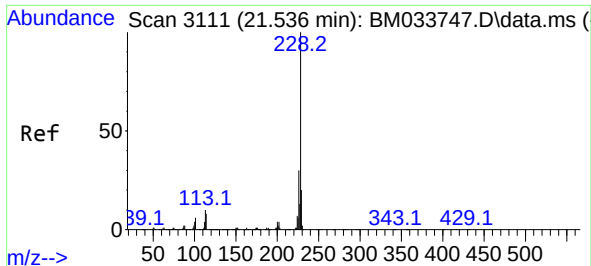
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#81
Benzo(a)anthracene
Concen: 26.271 ng
RT: 21.477 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Tgt Ion:228 Resp: 1419882
Ion Ratio Lower Upper
228 100
226 28.0 21.0 31.6
229 21.5 15.5 23.3





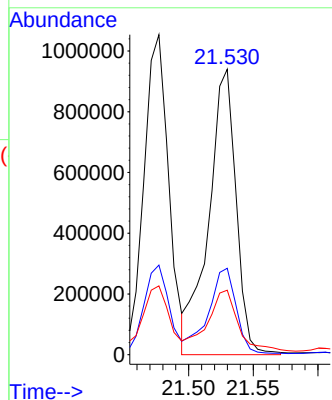
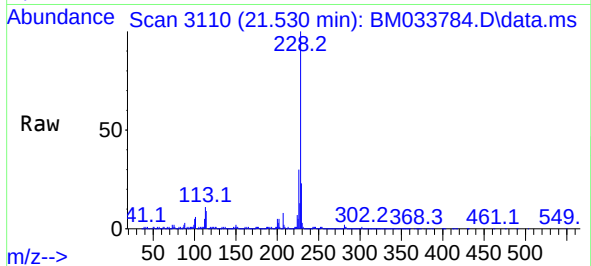
#83
Chrysene
Concen: 26.998 ng m
RT: 21.530 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL

Tgt Ion:228 Resp: 1393760
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.8
229 22.6 15.8 23.8

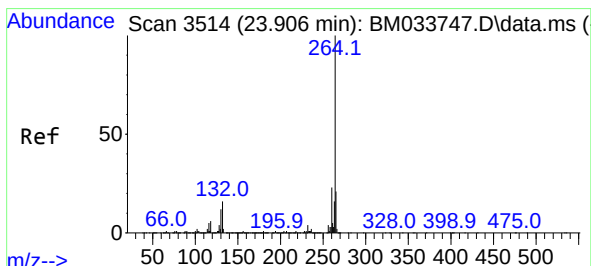
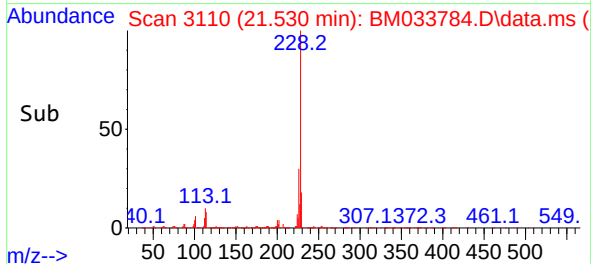
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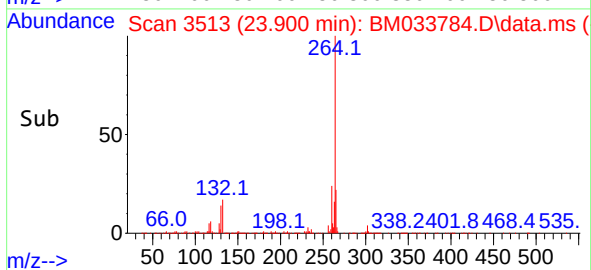
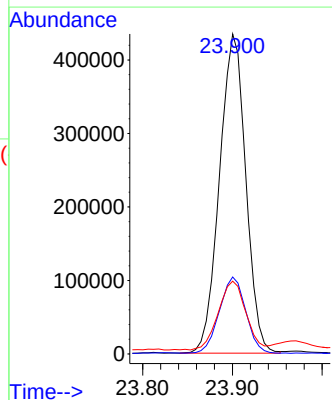
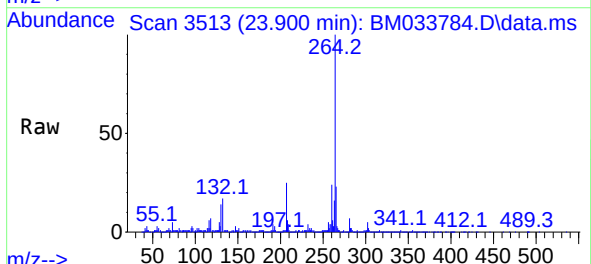
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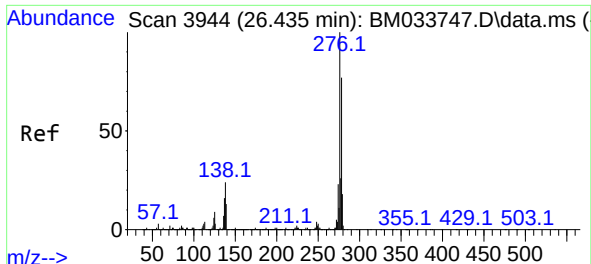
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#86
Perylene-d12
Concen: 20.000 ng
RT: 23.900 min Scan# 3513
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Tgt Ion:264 Resp: 884401
Ion Ratio Lower Upper
264 100
260 24.1 17.7 26.5
265 22.7 17.7 26.5





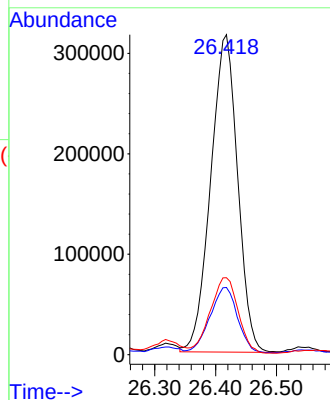
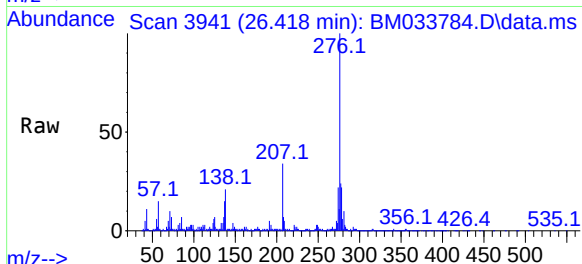
#87
Indeno(1,2,3-cd)pyrene
Concen: 16.502 ng
RT: 26.418 min Scan# 3941
Delta R.T. -0.018 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL

Tgt Ion:276 Resp: 970280
Ion Ratio Lower Upper
276 100
138 21.3 18.7 28.1
277 24.8 20.2 30.4

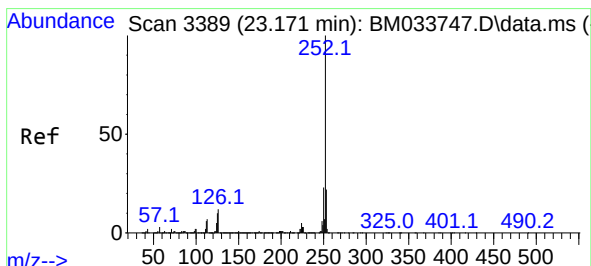
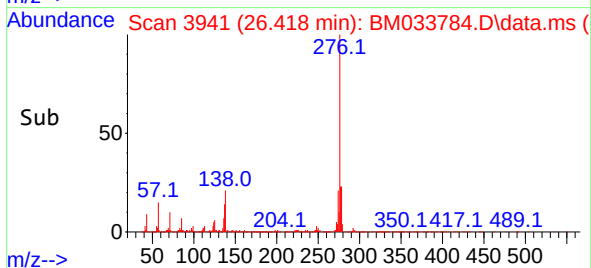
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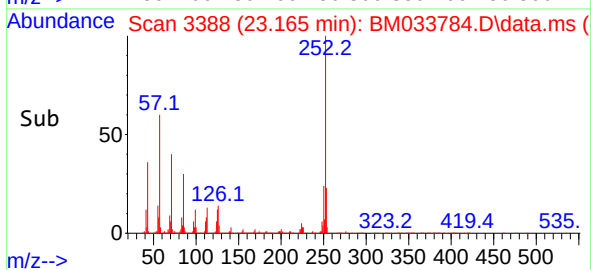
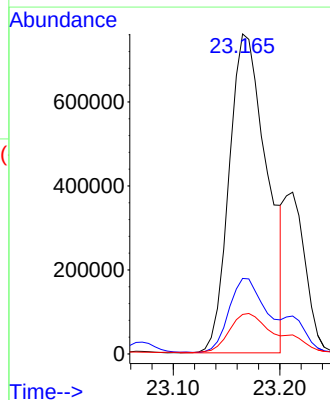
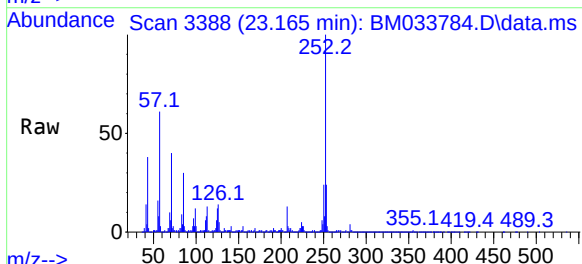
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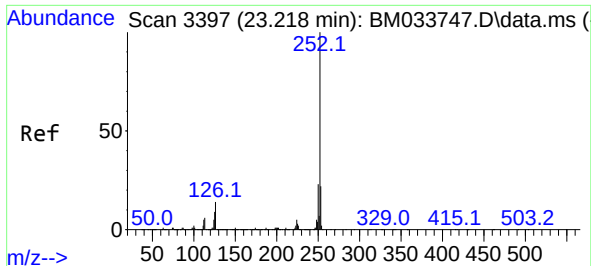
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#88
Benzo(b)fluoranthene
Concen: 33.258 ng
RT: 23.165 min Scan# 3388
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Tgt Ion:252 Resp: 1877651
Ion Ratio Lower Upper
252 100
253 23.6 17.1 25.7
125 12.4 7.4 11.2#





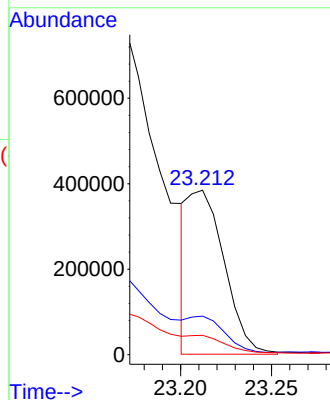
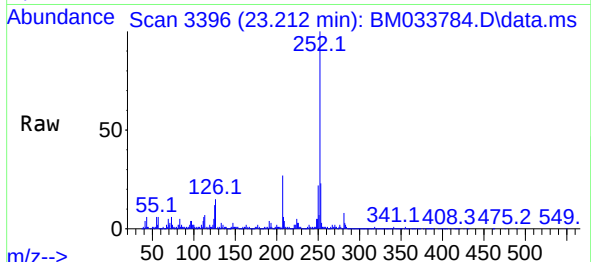
#89
Benzo(k)fluoranthene
Concen: 9.289 ng m
RT: 23.212 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL

Tgt Ion:252 Resp: 525234
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.8
125 11.7 8.1 12.1

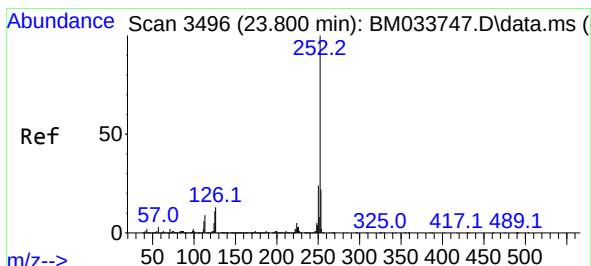
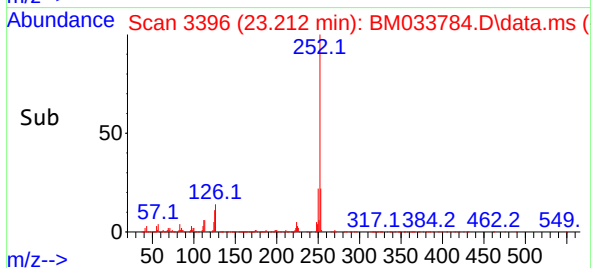
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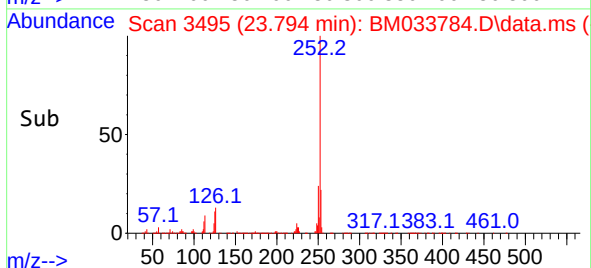
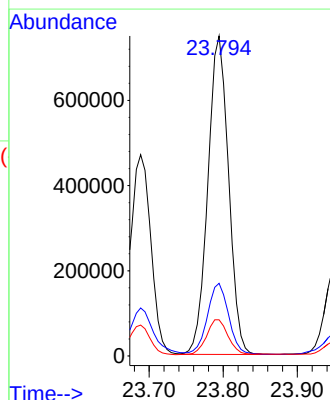
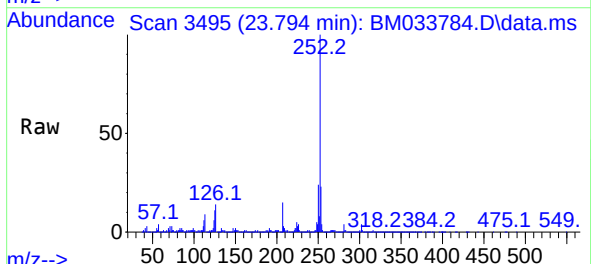
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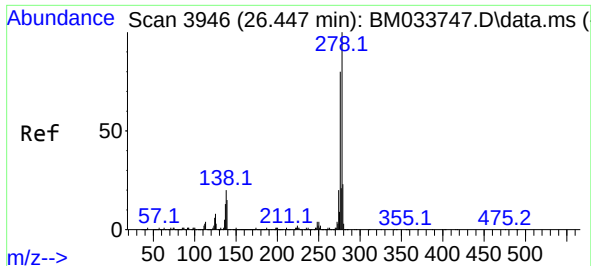
01/20/2022



#90
Benzo(a)pyrene
Concen: 31.399 ng
RT: 23.794 min Scan# 3495
Delta R.T. -0.006 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

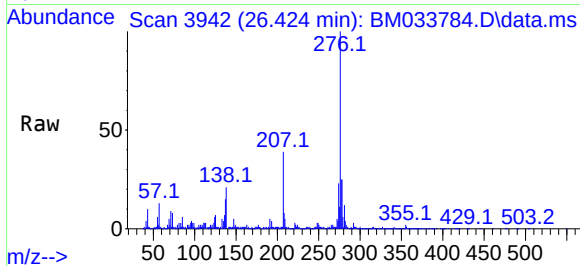
Tgt Ion:252 Resp: 1449086
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 11.3 7.8 11.8





#91
Dibenzo(a,h)anthracene
Concen: 4.865 ng
RT: 26.424 min Scan# 3946
Delta R.T. -0.023 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36

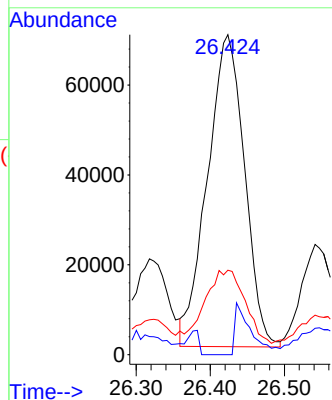
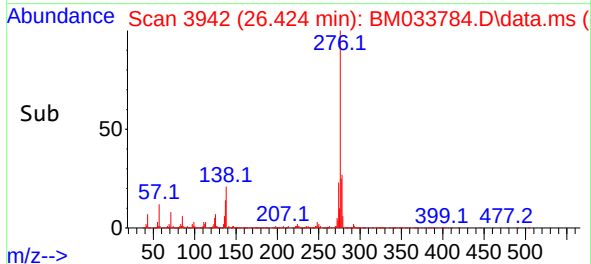
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01DL



Tgt Ion:278 Resp: 241634
Ion Ratio Lower Upper
278 100
139 0.0 10.9 16.3
279 26.4 17.7 26.5

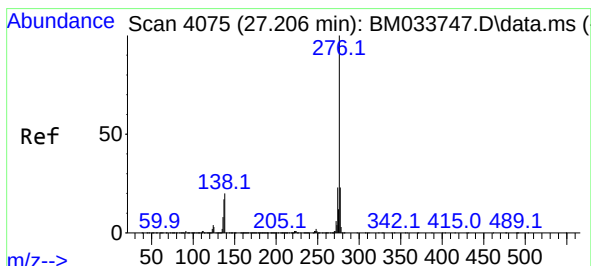
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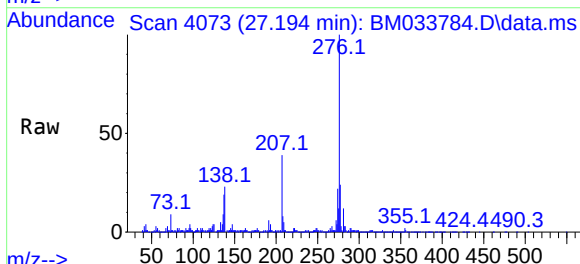


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#92
Benzo(g,h,i)perylene
Concen: 20.662 ng
RT: 27.194 min Scan# 4073
Delta R.T. -0.012 min
Lab File: BM033784.D
Acq: 19 Jan 2022 15:36



Tgt Ion:276 Resp: 976545
Ion Ratio Lower Upper
276 100
277 24.3 19.1 28.7
138 22.5 14.8 22.2#

