

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM011922\
 Data File : BM033783.D
 Acq On : 19 Jan 2022 14:30
 Operator : CG/JU
 Sample : N1152-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 VACLOT-TOPSOIL-01

Quant Time: Jan 19 15:29:31 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

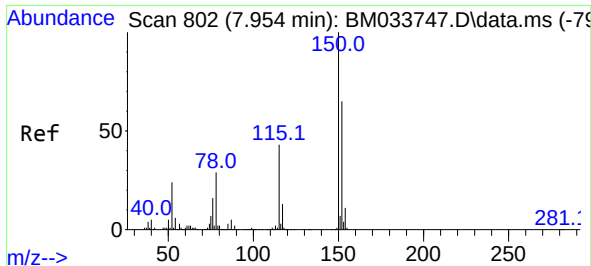
Manual Integrations
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Reviewed By :Christian Giraldo 01/20/2022
 Supervised By :Jagrut Upadhyay 01/20/2022

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

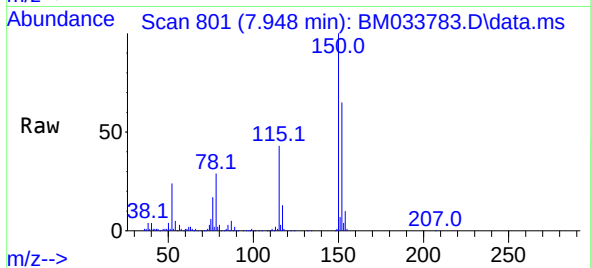
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.948	152	183187	20.000	ng	0.00
21) Naphthalene-d8	10.760	136	711879	20.000	ng	-0.01
39) Acenaphthene-d10	14.583	164	402526	20.000	ng	-0.01
64) Phenanthrene-d10	17.324	188	759004	20.000	ng	0.00
76) Chrysene-d12	21.489	240	717253	20.000	ng	0.00
86) Perylene-d12	23.894	264	788083	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.496	112	968176	88.808	ng	0.00
7) Phenol-d6	7.107	99	1212005	78.913	ng	-0.01
23) Nitrobenzene-d5	9.113	82	835984	57.791	ng	-0.01
42) 2,4,6-Tribromophenol	16.065	330	375966	68.892	ng	-0.01
45) 2-Fluorobiphenyl	13.219	172	1570648	54.894	ng	0.00
79) Terphenyl-d14	19.936	244	1785692	41.286	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.813	128	533450	13.882	ng	99
37) 2-Methylnaphthalene	12.419	142	177191	6.436	ng	97
38) 1-Methylnaphthalene	12.636	142	113349	4.218	ng	99
46) 1,1'-Biphenyl	13.424	154	72367	2.375	ng	96
52) Acenaphthene	14.648	154	335506	13.400	ng	98
55) Dibenzofuran	14.977	168	314896	8.417	ng	97
58) Fluorene	15.630	166	477814	16.203	ng	100
71) Phenanthrene	17.365	178	4008265	94.862	ng	98
72) Anthracene	17.454	178	1194039	28.733	ng	99
73) Carbazole	17.718	167	517753	12.766	ng	100
75) Fluoranthene	19.377	202	5456775	115.335	ng	99
78) Pyrene	19.736	202	4867331	91.853	ng	98
81) Benzo(a)anthracene	21.471	228	2792321	58.820	ng	95
83) Chrysene	21.524	228	2594159	57.209	ng	97
87) Indeno(1,2,3-cd)pyrene	26.412	276	1886294	36.002	ng	97
88) Benzo(b)fluoranthene	23.165	252	3510592	69.780	ng	# 95
89) Benzo(k)fluoranthene	23.206	252	1147094m	22.767	ng	
90) Benzo(a)pyrene	23.794	252	2815411	68.461	ng	98
91) Dibenzo(a,h)anthracene	26.424	278	457347	10.333	ng	# 87
92) Benzo(g,h,i)perylene	27.194	276	1902608	45.175	ng	# 96

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.948 min Scan# 801
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

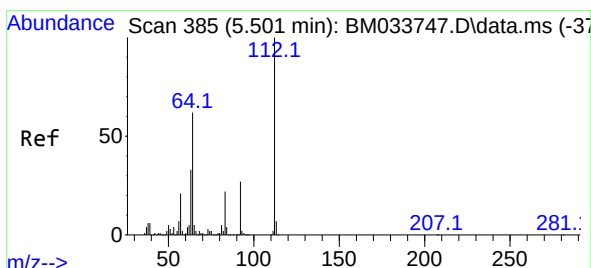
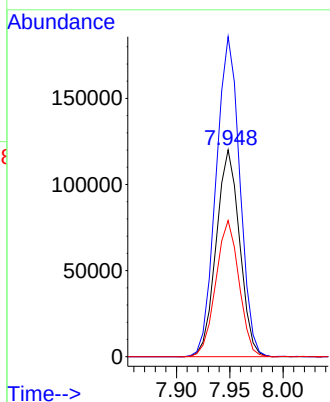
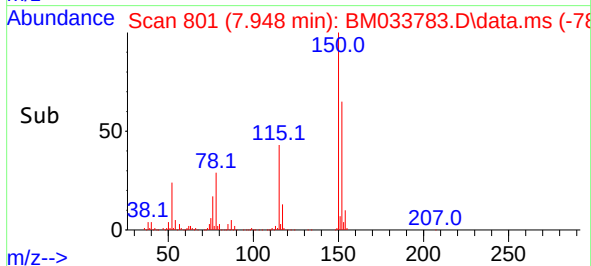
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



Tgt Ion:152 Resp: 18318
Ion Ratio Lower Upper
152 100
150 154.7 128.9 193.3
115 65.8 53.0 79.6

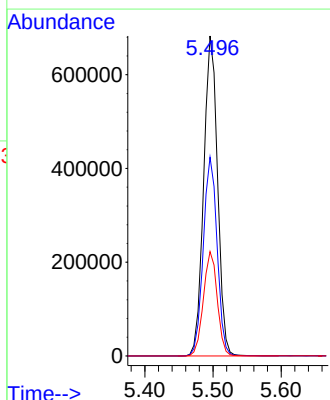
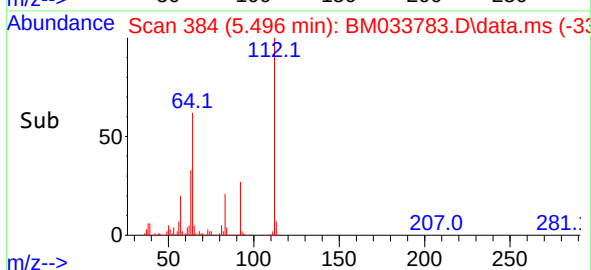
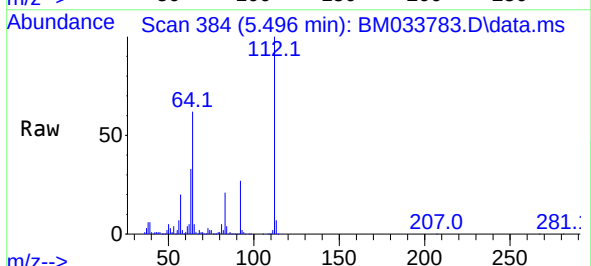
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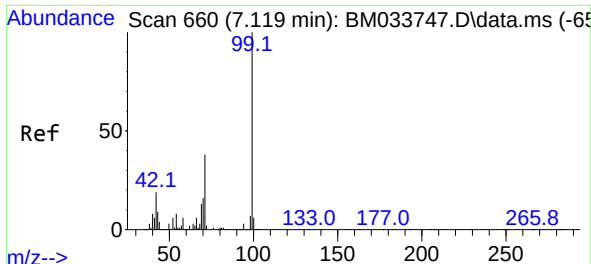
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022



#5
2-Fluorophenol
Concen: 88.808 ng
RT: 5.496 min Scan# 384
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

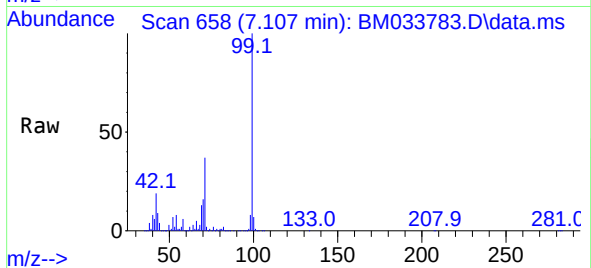
Tgt Ion:112 Resp: 968176
Ion Ratio Lower Upper
112 100
64 62.1 55.5 83.3
63 32.6 31.3 46.9





#7
Phenol-d6
Concen: 78.913 ng
RT: 7.107 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

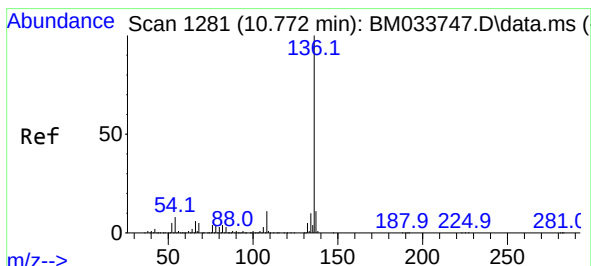
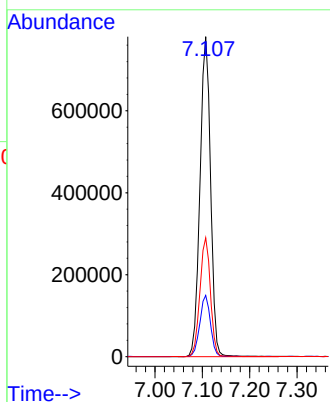
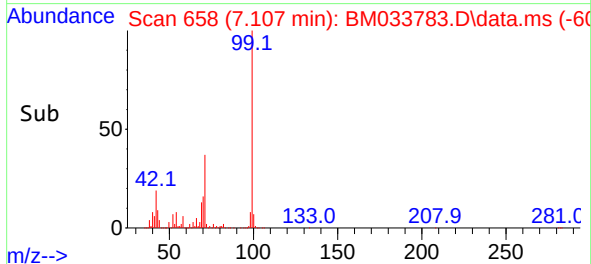
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



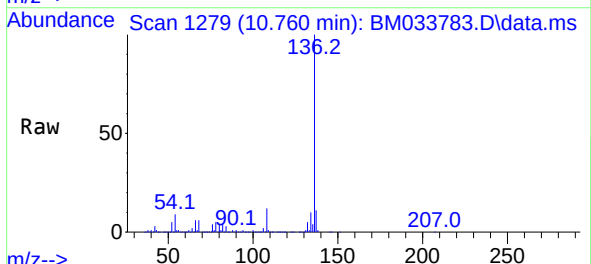
Tgt Ion: 99 Resp: 121200
Ion Ratio Lower Upper
99 100
42 19.2 20.3 30.5
71 37.1 34.5 51.7

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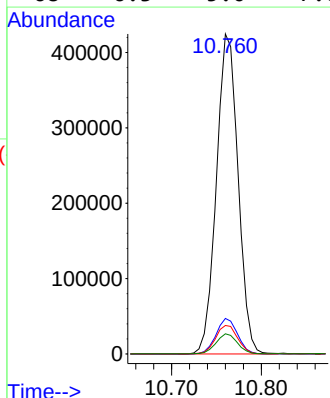
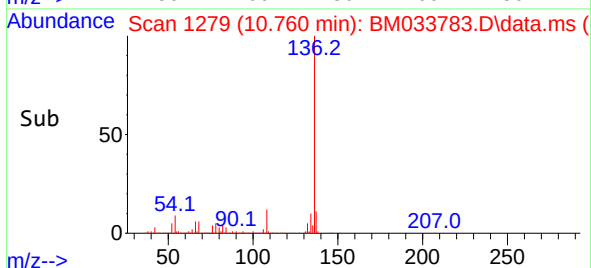
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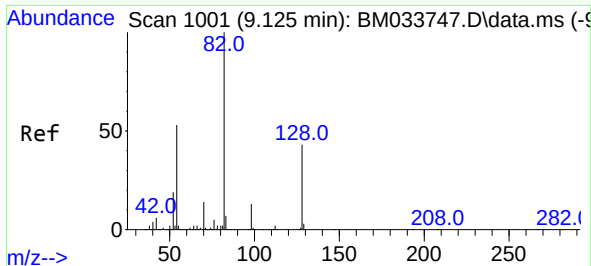


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.760 min Scan# 1279
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



Tgt Ion:136 Resp: 711879
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.9 8.3 12.5
68 6.3 5.0 7.6





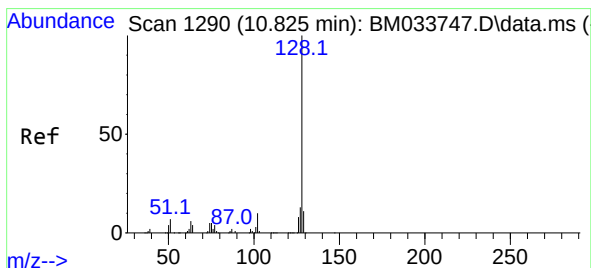
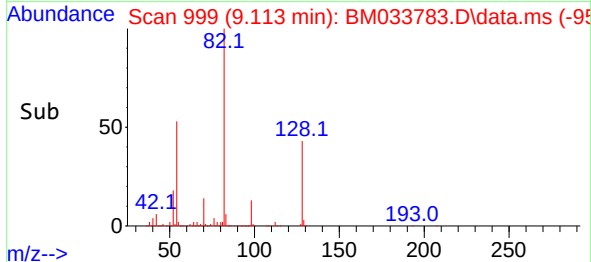
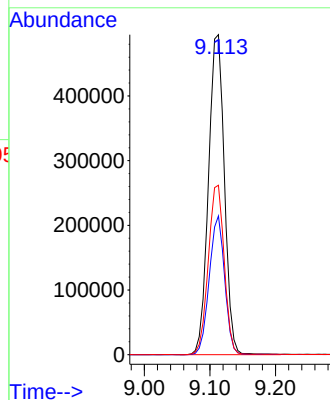
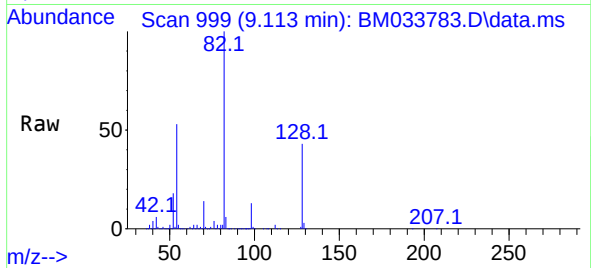
#23
Nitrobenzene-d5
Concen: 57.791 ng
RT: 9.113 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01

Tgt Ion: 82 Resp: 835984
Ion Ratio Lower Upper
82 100
128 43.4 28.1 42.1
54 53.0 46.1 69.1

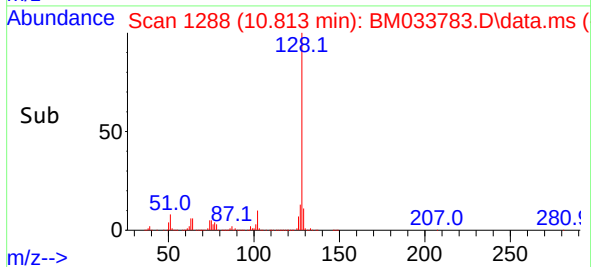
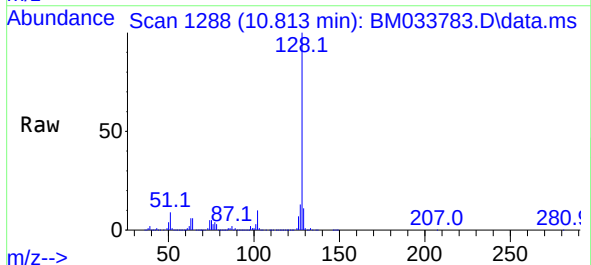
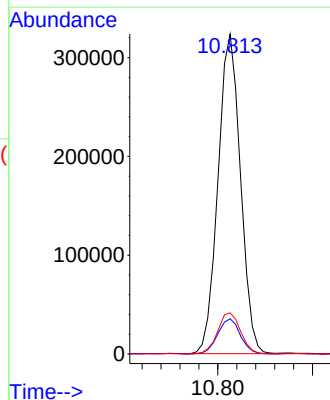
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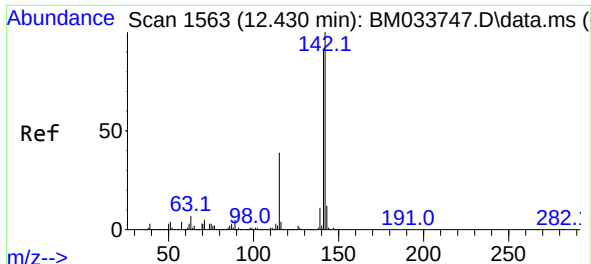
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022



#31
Naphthalene
Concen: 13.882 ng
RT: 10.813 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Tgt Ion:128 Resp: 533450
Ion Ratio Lower Upper
128 100
129 11.0 8.5 12.7
127 12.8 10.8 16.2





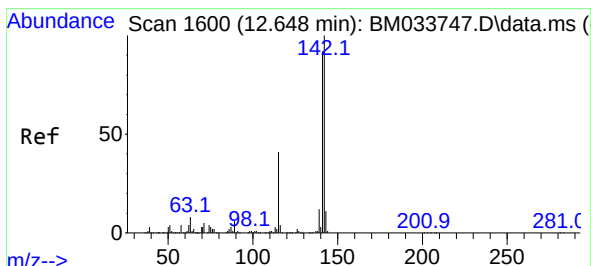
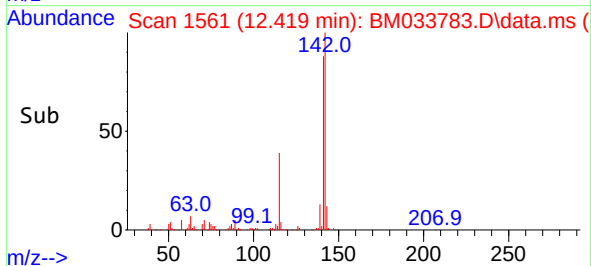
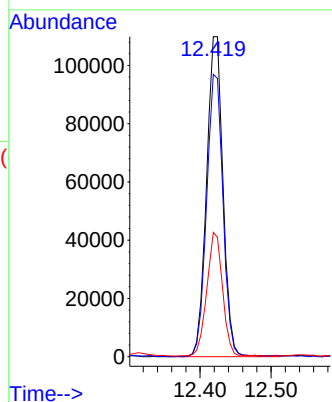
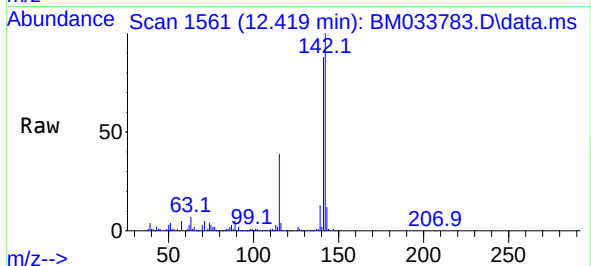
#37
2-Methylnaphthalene
Concen: 6.436 ng
RT: 12.419 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01

Tgt Ion:142 Resp: 17719
Ion Ratio Lower Upper
142 100
141 88.3 72.2 108.2
115 38.8 33.0 49.6

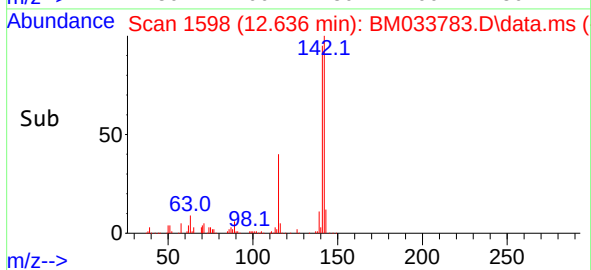
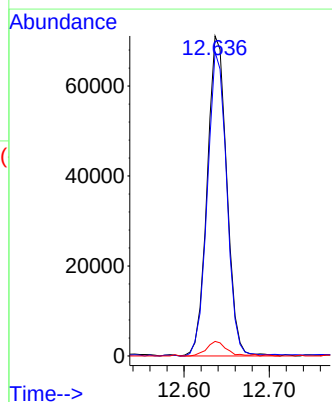
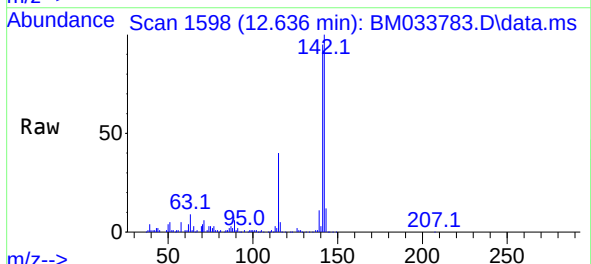
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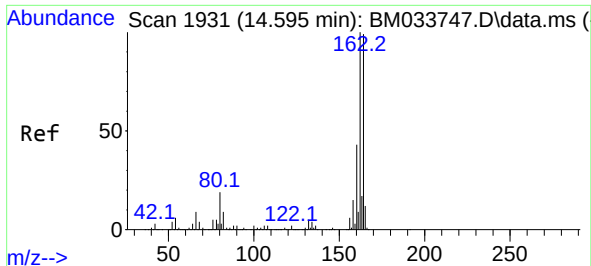
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#38
1-Methylnaphthalene
Concen: 4.218 ng
RT: 12.636 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

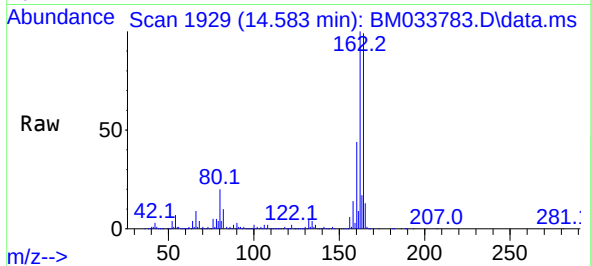
Tgt Ion:142 Resp: 113349
Ion Ratio Lower Upper
142 100
141 95.0 75.0 112.4
116 4.6 3.5 5.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.583 min Scan# 1931
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

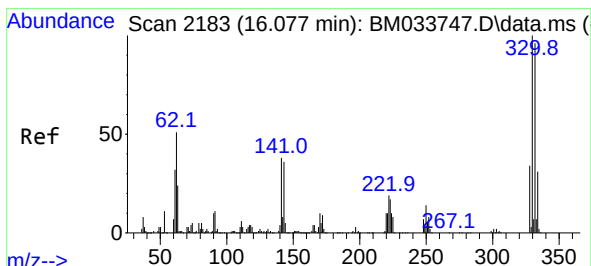
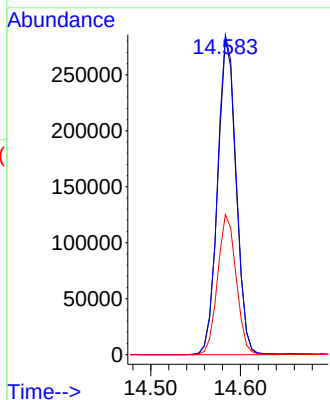
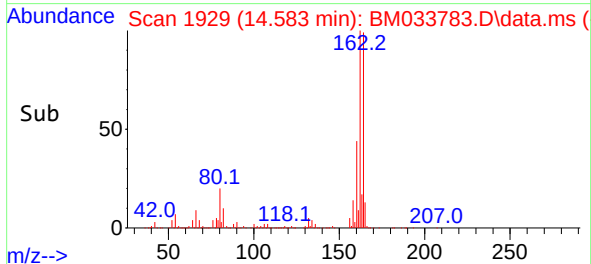
Instrument : BNA_M
ClientSampleId : VACLOT-TOPSOIL-01



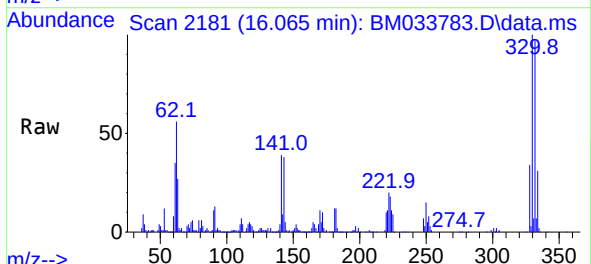
Tgt Ion:164 Resp: 402520
Ion Ratio Lower Upper
164 100
162 101.1 79.7 119.5
160 44.3 34.2 51.4

Manual Integrations
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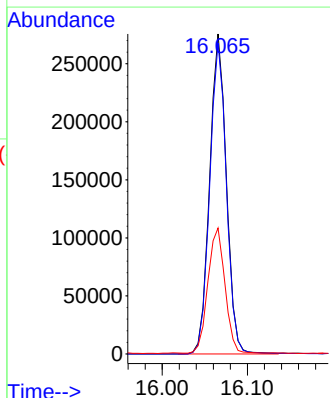
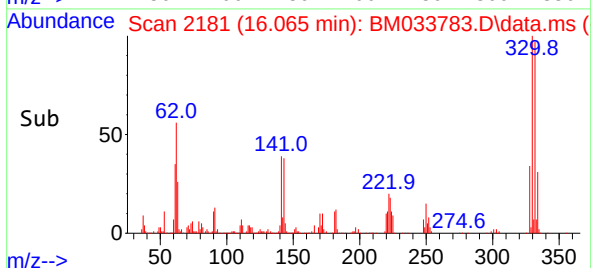
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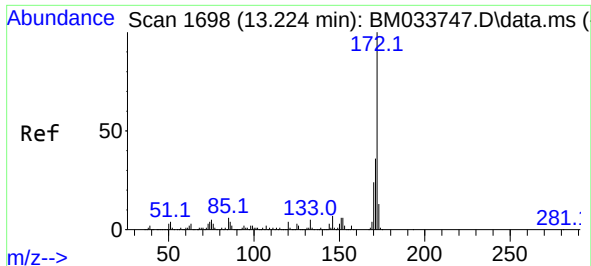


#42
2,4,6-Tribromophenol
Concen: 68.892 ng
RT: 16.065 min Scan# 2181
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



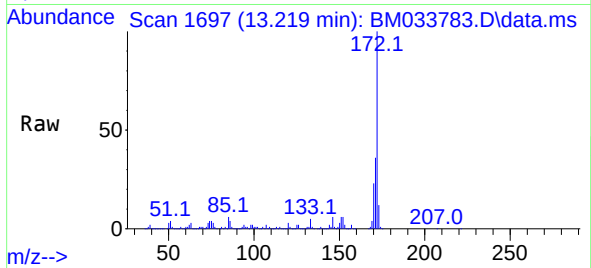
Tgt Ion:330 Resp: 375966
Ion Ratio Lower Upper
330 100
332 96.9 76.5 114.7
141 39.9 35.9 53.9





#45
2-Fluorobiphenyl
Concen: 54.894 ng
RT: 13.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

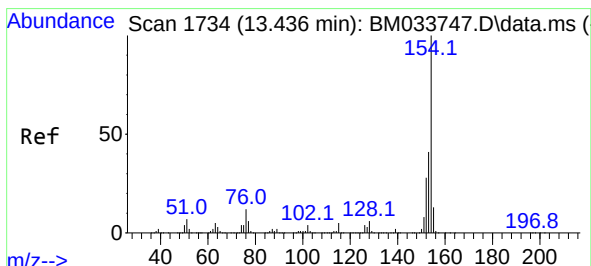
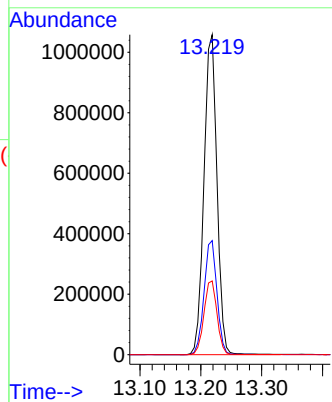
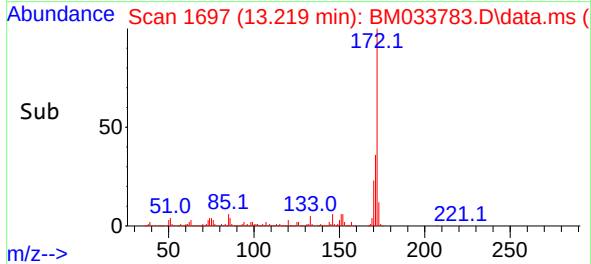
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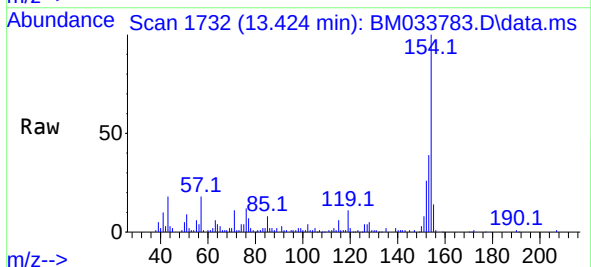
Tgt Ion:172 Resp: 157064
Ion Ratio Lower Upper
172 100
171 35.7 27.2 40.8
170 23.1 18.7 28.1

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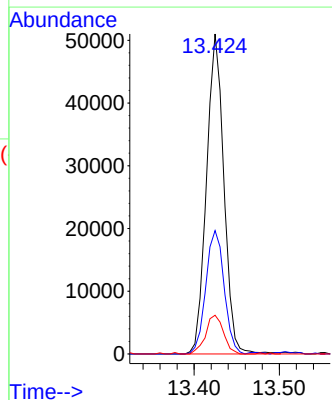
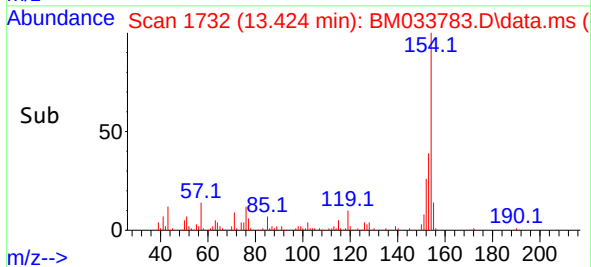
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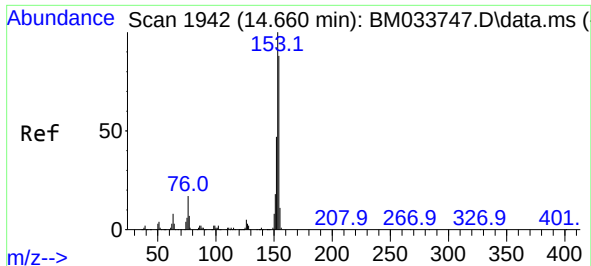


#46
1,1'-Biphenyl
Concen: 2.375 ng
RT: 13.424 min Scan# 1732
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



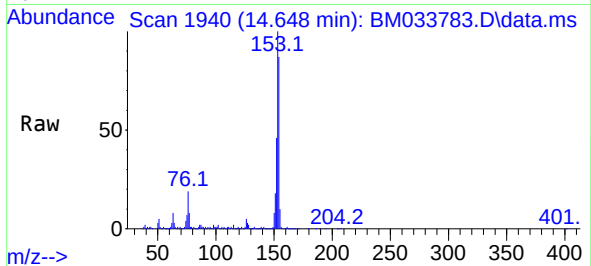
Tgt Ion:154 Resp: 72367
Ion Ratio Lower Upper
154 100
153 38.6 20.7 60.7
76 12.1 0.0 34.4





#52
Acenaphthene
Concen: 13.400 ng
RT: 14.648 min Scan# 1940
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

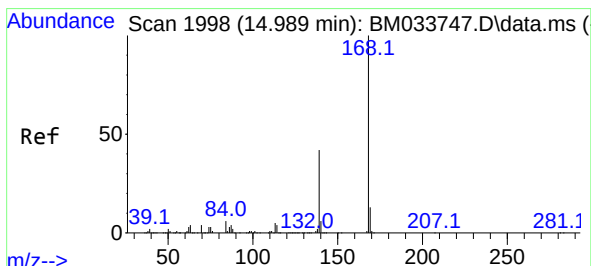
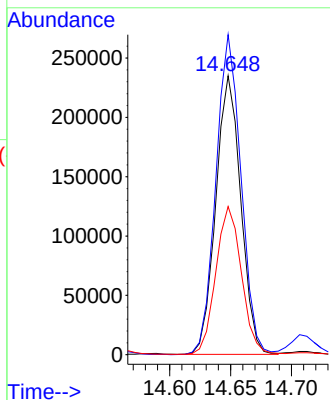
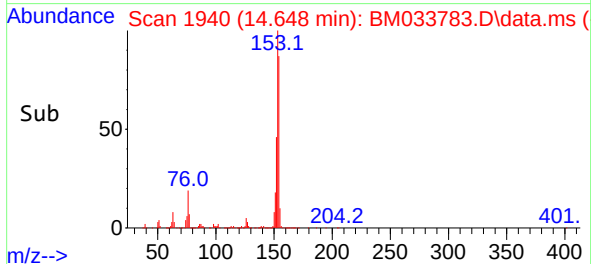
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



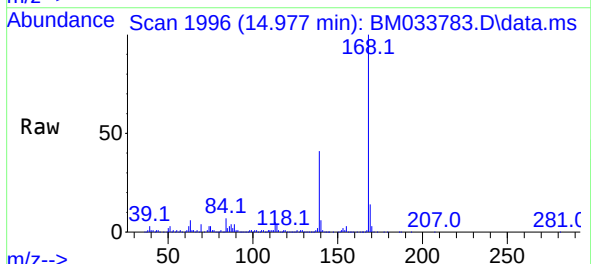
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Ion Ratio Lower Upper
154 100
153 114.8 90.2 135.4
152 53.2 43.5 65.3

Manual Integrations
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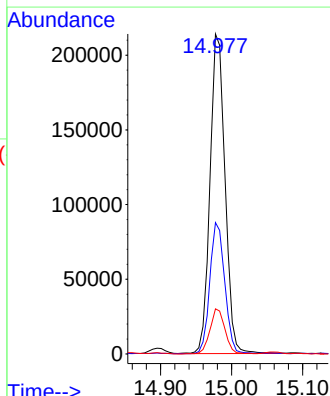
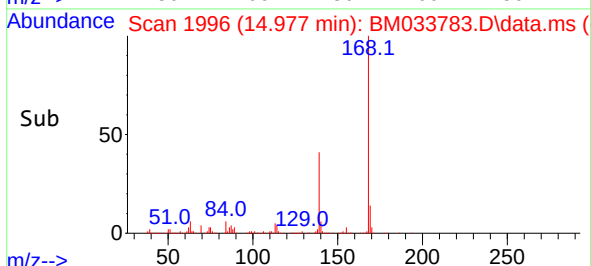
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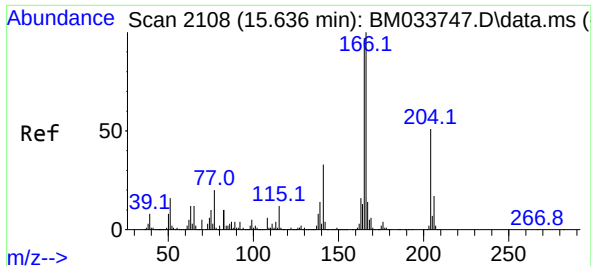


#55
Dibenzofuran
Concen: 8.417 ng
RT: 14.977 min Scan# 1996
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



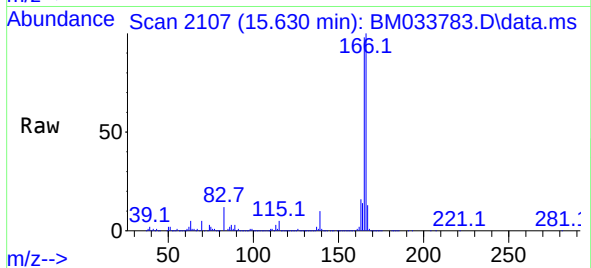
Tgt Ion:168 Resp: 314896
Ion Ratio Lower Upper
168 100
139 41.1 31.4 47.2
169 14.1 10.6 15.8





#58
Fluorene
Concen: 16.203 ng
RT: 15.630 min Scan# 2108
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

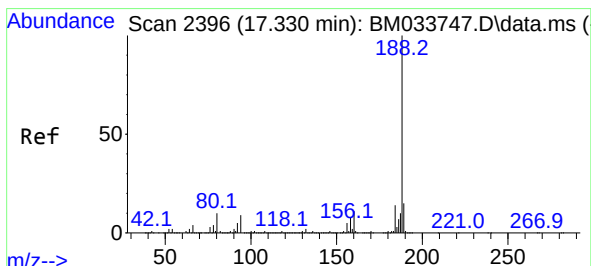
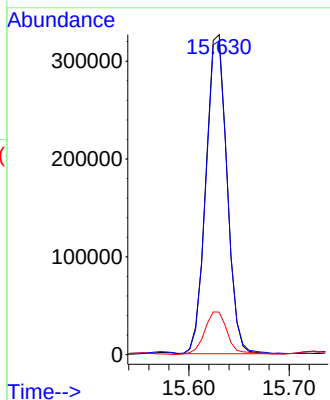
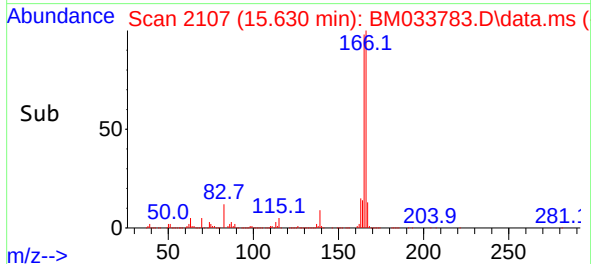
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



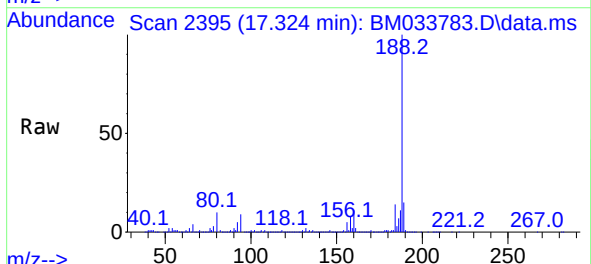
Tgt Ion:166 Resp: 477814
Ion Ratio Lower Upper
166 100
165 98.1 78.1 117.1
167 13.3 10.6 15.8

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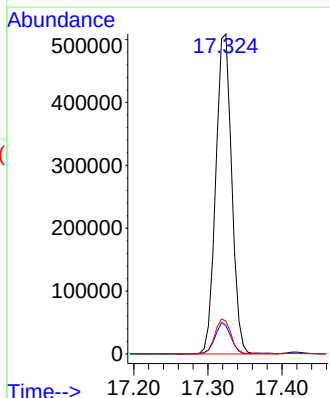
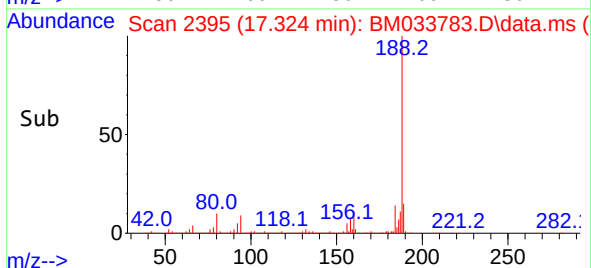
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022

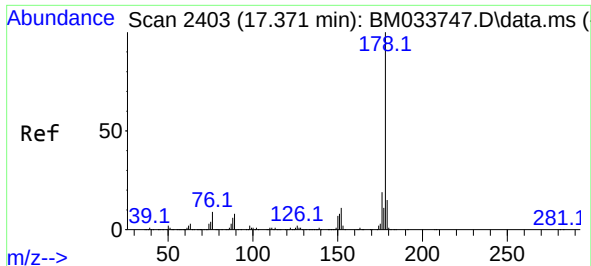


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.324 min Scan# 2395
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



Tgt Ion:188 Resp: 759004
Ion Ratio Lower Upper
188 100
94 8.9 7.5 11.3
80 10.3 8.9 13.3





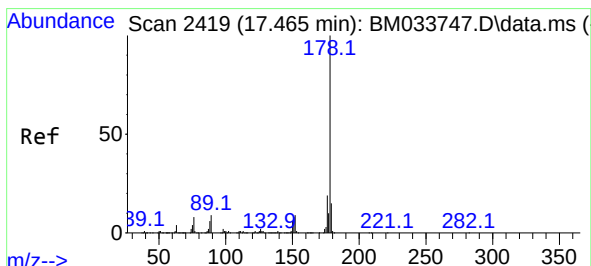
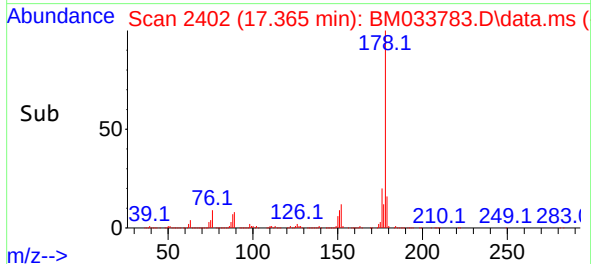
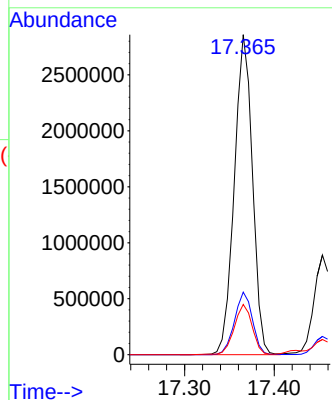
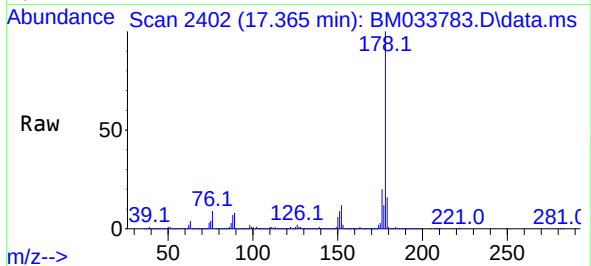
#71
Phenanthrene
Concen: 94.862 ng
RT: 17.365 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01

Tgt Ion:178 Resp: 400826
Ion Ratio Lower Upper
178 100
176 19.6 15.1 22.7
179 15.7 12.0 18.0

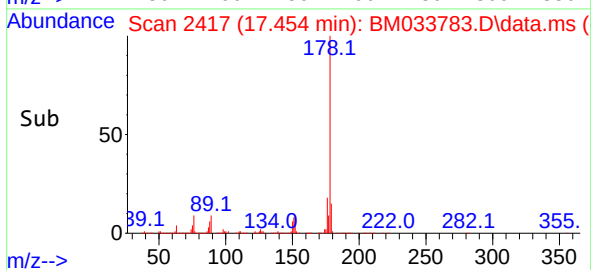
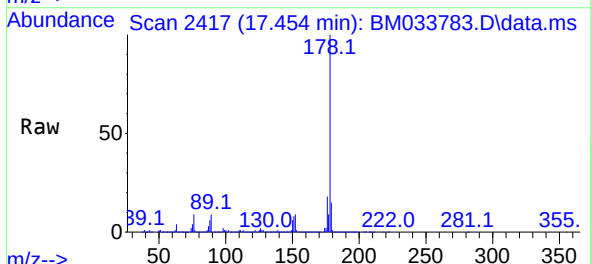
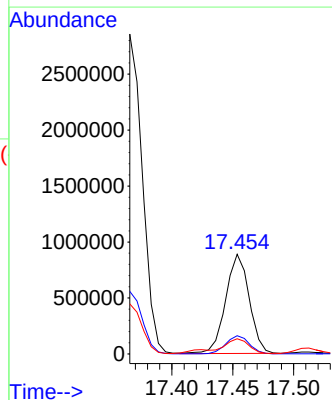
Manual Integrations
APPROVED

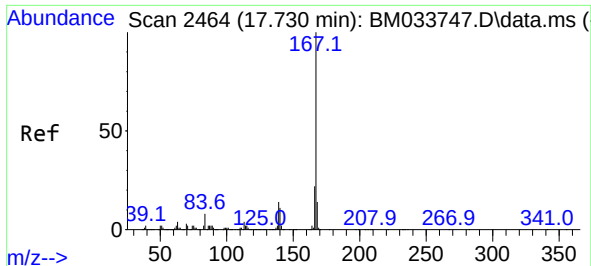
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022



#72
Anthracene
Concen: 28.733 ng
RT: 17.454 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

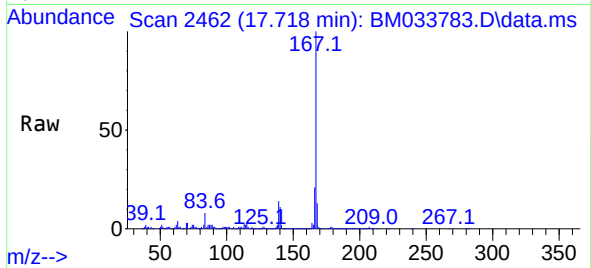
Tgt Ion:178 Resp: 1194039
Ion Ratio Lower Upper
178 100
176 18.4 14.5 21.7
179 15.3 11.9 17.9





#73
 Carbazole
 Concen: 12.766 ng
 RT: 17.718 min Scan# 2462
 Delta R.T. -0.012 min
 Lab File: BM033783.D
 Acq: 19 Jan 2022 14:30

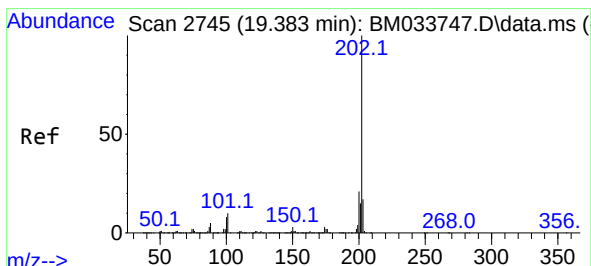
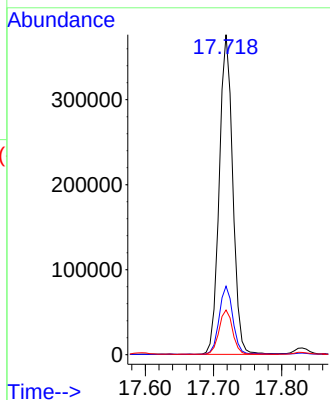
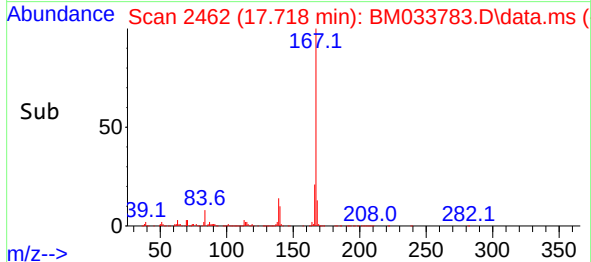
Instrument :
 BNA_M
 ClientSampleId :
 VACLOT-TOPSOIL-01



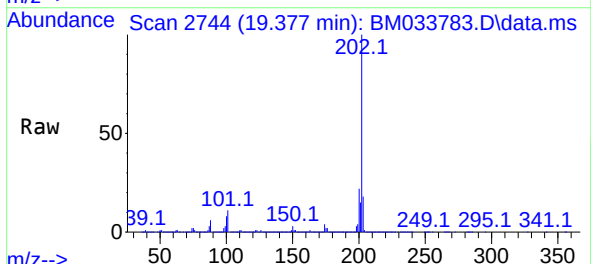
Tgt Ion:167 Resp: 51775
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.2 25.8
 139 14.0 11.0 16.4

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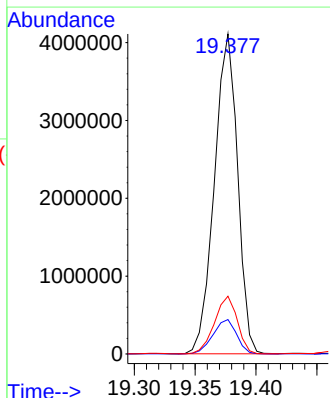
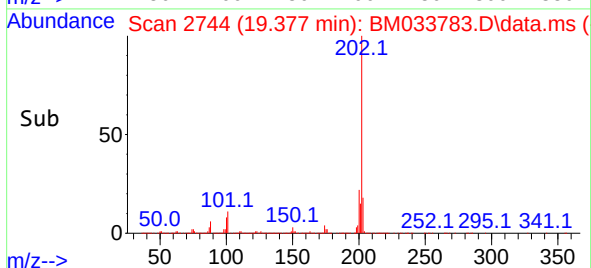
Reviewed By :Christian Giraldo 01/20/2022
 Supervised By :Jagrut Upadhyay 01/20/2022

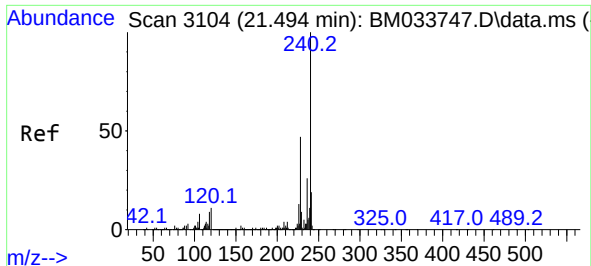


#75
 Fluoranthene
 Concen: 115.335 ng
 RT: 19.377 min Scan# 2744
 Delta R.T. -0.006 min
 Lab File: BM033783.D
 Acq: 19 Jan 2022 14:30



Tgt Ion:202 Resp: 5456775
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 30.8
 203 18.1 0.0 37.2





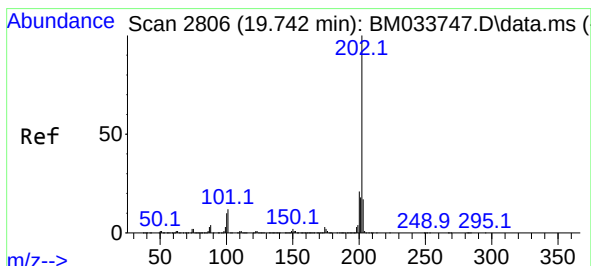
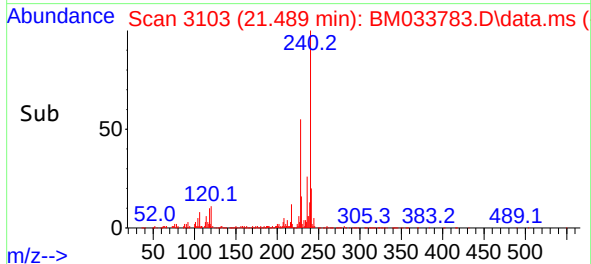
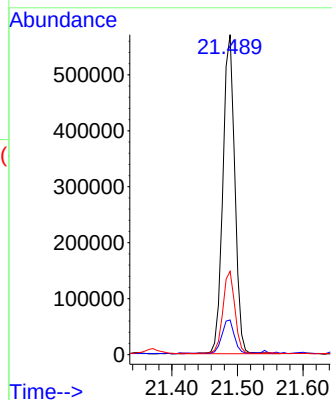
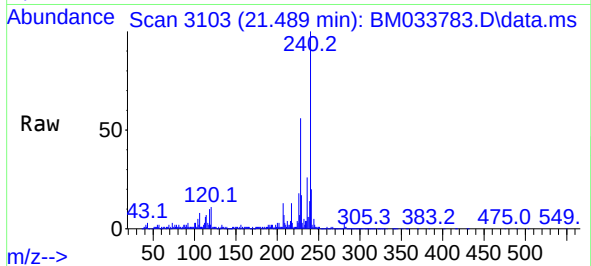
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3104
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01

Tgt Ion:240 Resp: 71725
Ion Ratio Lower Upper
240 100
120 10.9 7.8 11.6
236 26.1 20.3 30.5

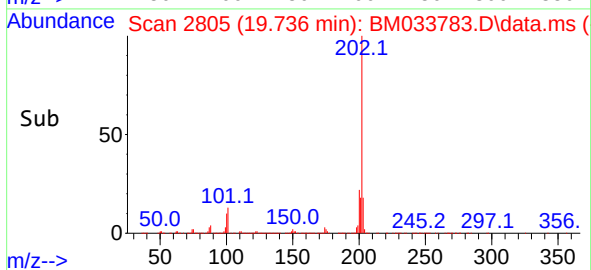
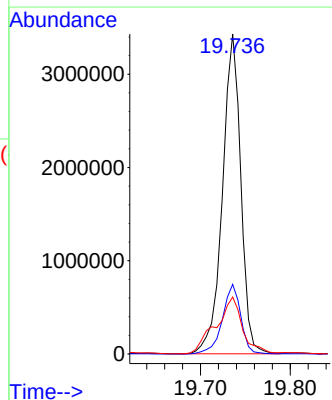
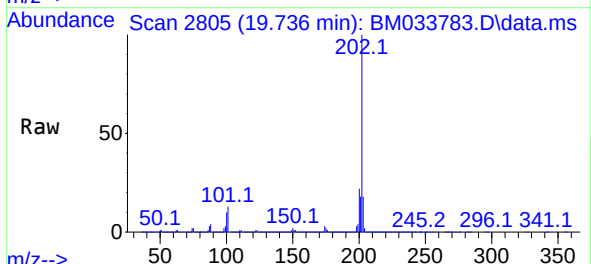
Manual Integrations
APPROVED

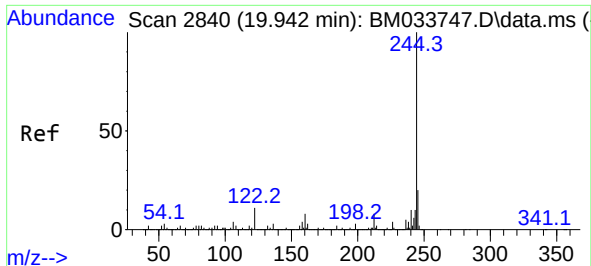
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022



#78
Pyrene
Concen: 91.853 ng
RT: 19.736 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

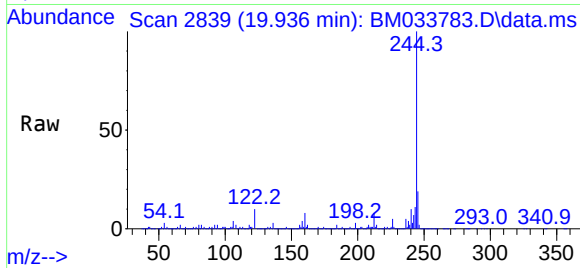
Tgt Ion:202 Resp: 4867331
Ion Ratio Lower Upper
202 100
200 21.7 16.4 24.6
203 17.8 13.5 20.3





#79
Terphenyl-d14
Concen: 41.286 ng
RT: 19.936 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

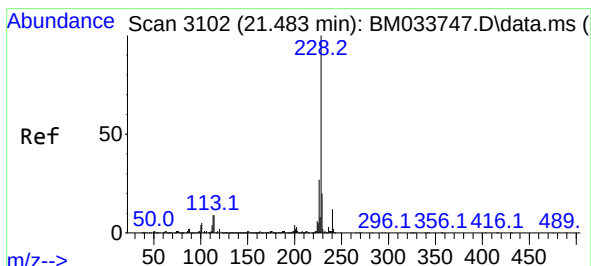
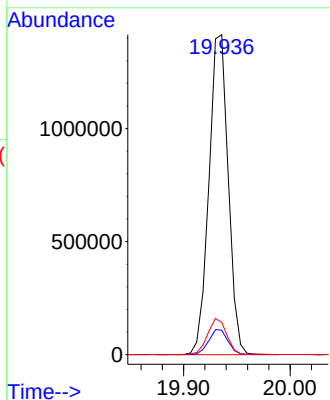
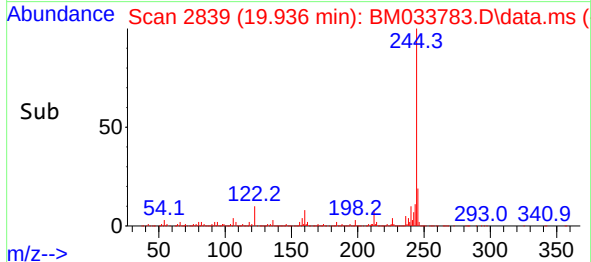
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



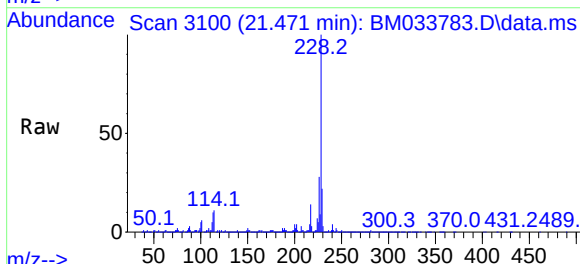
Tgt Ion:244 Resp: 1785692
Ion Ratio Lower Upper
244 100
212 7.6 5.9 8.9
122 10.2 8.4 12.6

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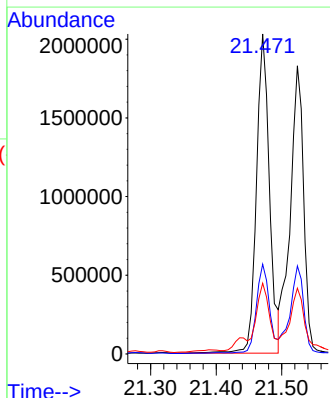
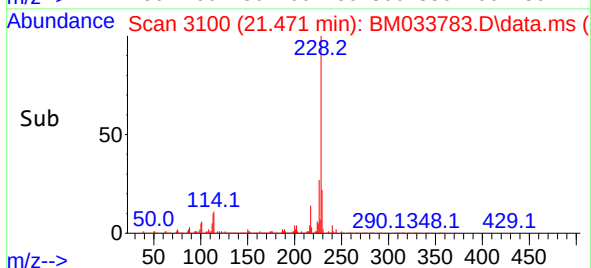
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022

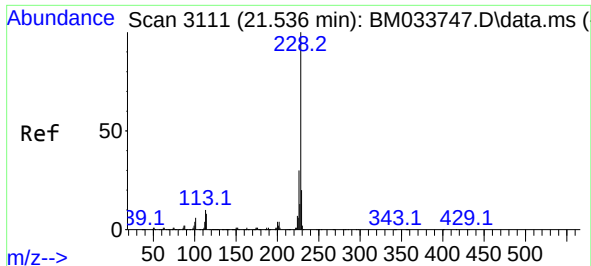


#81
Benzo(a)anthracene
Concen: 58.820 ng
RT: 21.471 min Scan# 3100
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



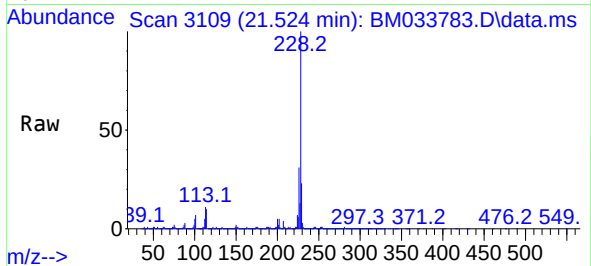
Tgt Ion:228 Resp: 2792321
Ion Ratio Lower Upper
228 100
226 28.0 21.0 31.6
229 22.1 15.5 23.3





#83
Chrysene
Concen: 57.209 ng
RT: 21.524 min Scan# 3111
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

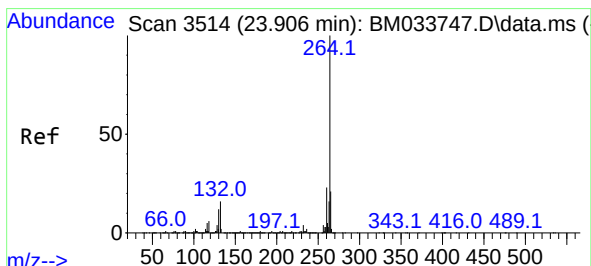
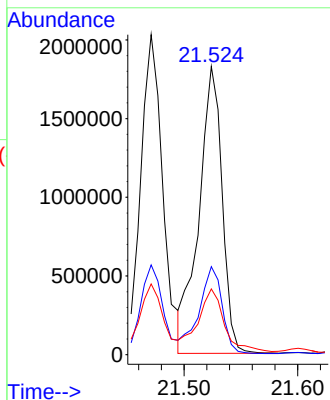
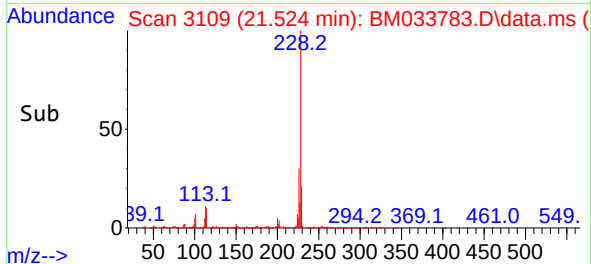
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



Tgt Ion:228 Resp: 2594159
Ion Ratio Lower Upper
228 100
226 30.5 23.8 35.8
229 22.8 15.8 23.8

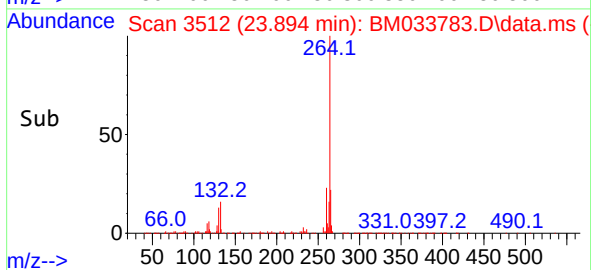
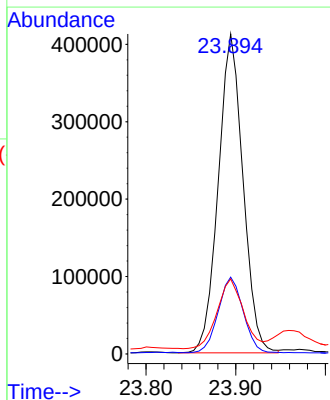
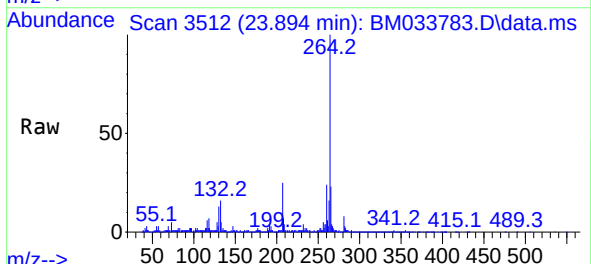
Manual Integrations
APPROVED

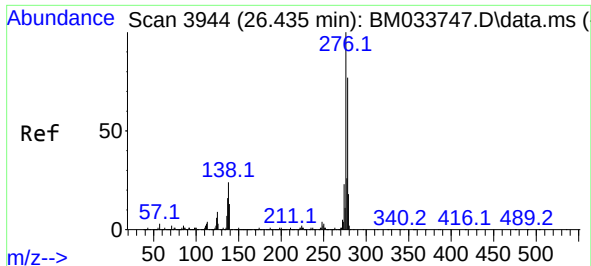
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.894 min Scan# 3512
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

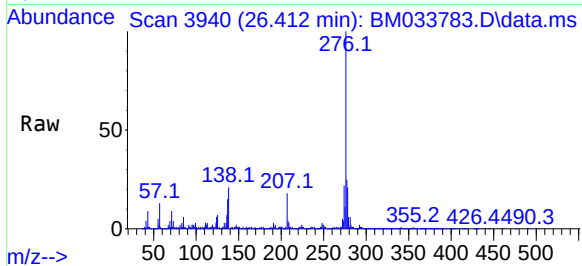
Tgt Ion:264 Resp: 788083
Ion Ratio Lower Upper
264 100
260 24.0 17.7 26.5
265 23.5 17.7 26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 36.002 ng
RT: 26.412 min Scan# 3944
Delta R.T. -0.024 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

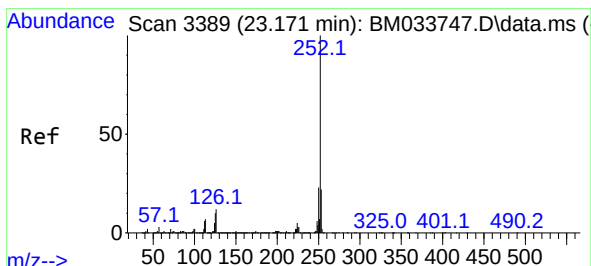
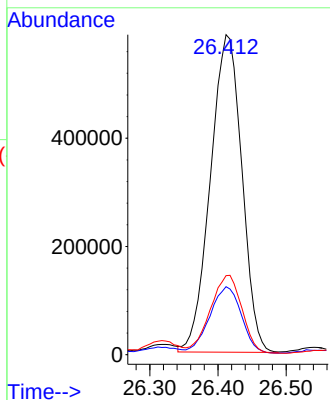
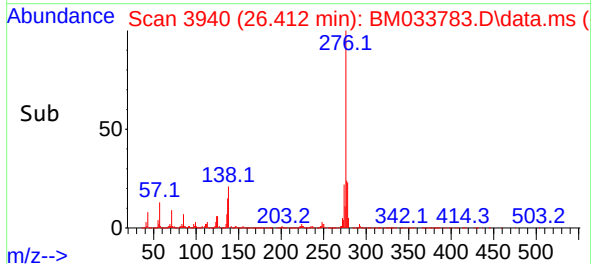
Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01



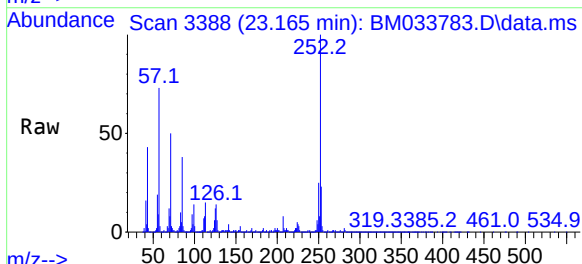
Tgt Ion:276 Resp: 1886294
Ion Ratio Lower Upper
276 100
138 21.0 18.7 28.1
277 24.6 20.2 30.4

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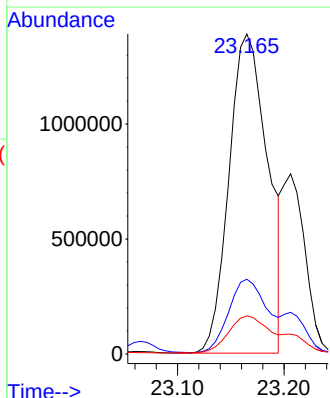
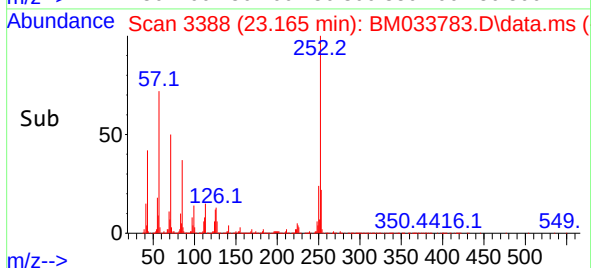
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022

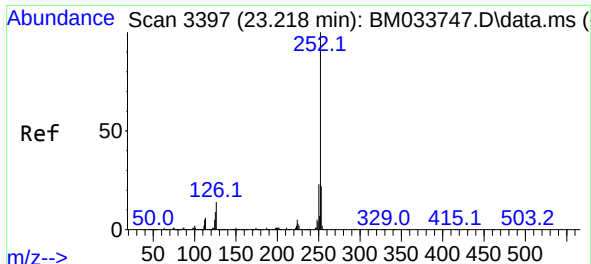


#88
Benzo(b)fluoranthene
Concen: 69.780 ng
RT: 23.165 min Scan# 3388
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30



Tgt Ion:252 Resp: 3510592
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 11.9 7.4 11.2#





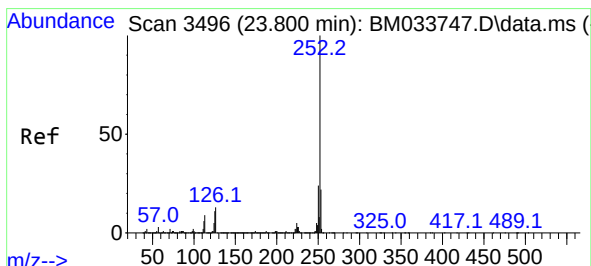
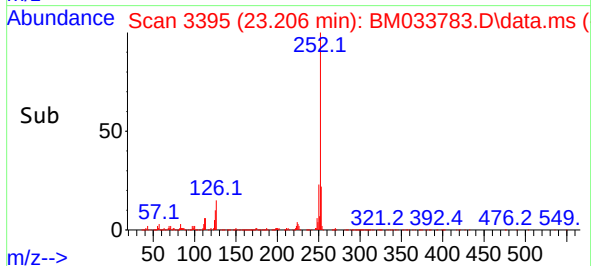
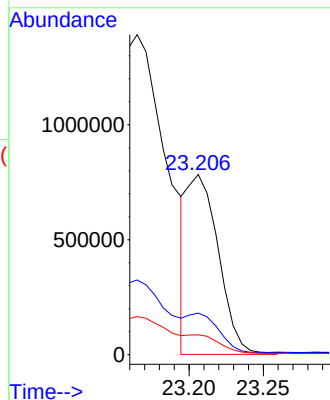
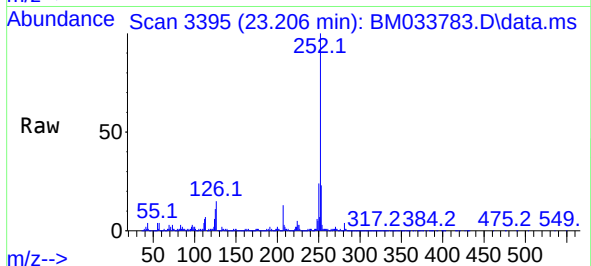
#89
Benzo(k)fluoranthene
Concen: 22.767 ng m
RT: 23.206 min Scan# 31
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01

Tgt Ion:252 Resp: 1147094
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 11.0 8.1 12.1

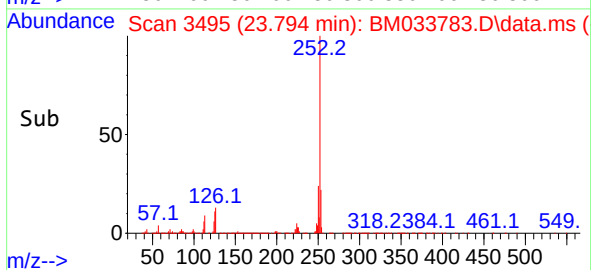
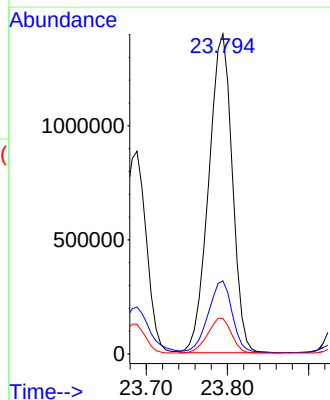
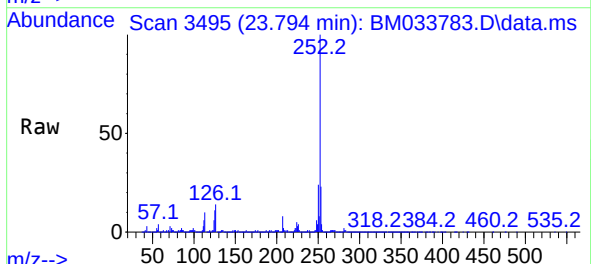
Manual Integrations
APPROVED

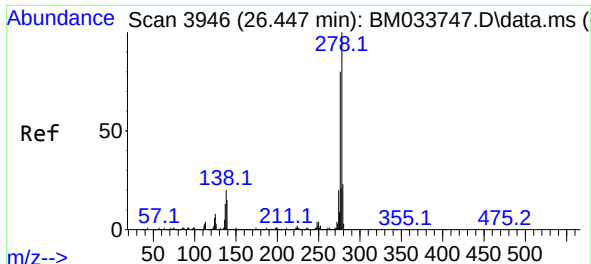
Reviewed By :Christian Giraldo 01/20/2022
Supervised By :Jagrut Upadhyay 01/20/2022



#90
Benzo(a)pyrene
Concen: 68.461 ng
RT: 23.794 min Scan# 3495
Delta R.T. -0.006 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Tgt Ion:252 Resp: 2815411
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 11.1 7.8 11.8





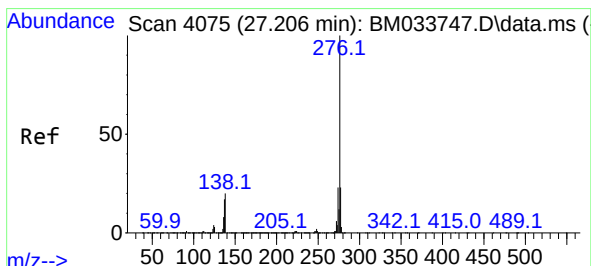
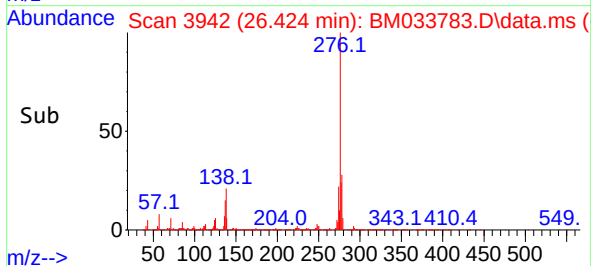
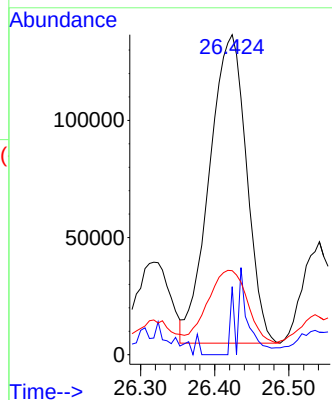
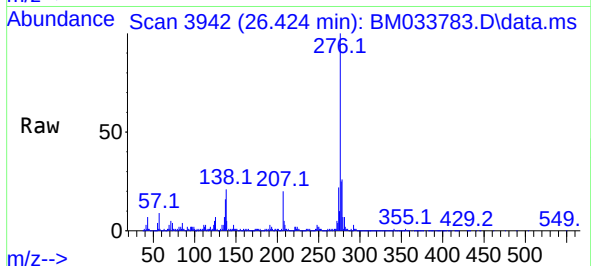
#91
Dibenzo(a,h)anthracene
Concen: 10.333 ng
RT: 26.424 min Scan# 3942
Delta R.T. -0.024 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Instrument :
BNA_M
ClientSampleId :
VACLOT-TOPSOIL-01

Tgt Ion:278 Resp: 45734
Ion Ratio Lower Upper
278 100
139 21.3 10.9 16.3
279 26.2 17.7 26.5

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 45.175 ng
RT: 27.194 min Scan# 4073
Delta R.T. -0.012 min
Lab File: BM033783.D
Acq: 19 Jan 2022 14:30

Tgt Ion:276 Resp: 1902608
Ion Ratio Lower Upper
276 100
277 24.0 19.1 28.7
138 22.5 14.8 22.2#

