

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072922\
 Data File : BF129461.D
 Acq On : 30 Jul 2022 01:37
 Operator : CG\JU
 Sample : N3964-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HMGP-SOIL-B

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 08/01/2022
 Supervised By : Jagrut Upadhyay 08/01/2022

Quant Time: Jul 30 02:04:05 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 25 17:24:17 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	174722	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	652741	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	289474	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	391440	20.000	ng	0.00
76) Chrysene-d12	14.063	240	362785	20.000	ng	0.00
86) Perylene-d12	15.562	264	313038	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1267948	118.216	ng	0.02
7) Phenol-d6	6.534	99	1605670	119.101	ng	0.02
23) Nitrobenzene-d5	7.451	82	1018131	85.146	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	269278	96.756	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1564874	83.627	ng	0.00
79) Terphenyl-d14	13.004	244	1252667	65.142	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.192	128	2576102	77.679	ng	98
37) 2-Methylnaphthalene	8.880	142	400328	18.576	ng	98
38) 1-Methylnaphthalene	8.980	142	369303	17.751	ng	98
46) 1,1'-Biphenyl	9.339	154	134984	6.390	ng	99
49) Acenaphthylene	9.786	152	113346	4.368	ng	98
52) Acenaphthene	9.957	154	179986	10.619	ng	99
55) Dibenzofuran	10.127	168	67079	2.871	ng	# 97
58) Fluorene	10.475	166	182065	9.739	ng	97
71) Phenanthrene	11.439	178	630922	29.527	ng	99
72) Anthracene	11.492	178	212950	10.141	ng	97
75) Fluoranthene	12.633	202	436754	20.173	ng	99
78) Pyrene	12.863	202	594318	19.590	ng	98
81) Benzo(a)anthracene	14.051	228	227645m	9.186	ng	
83) Chrysene	14.086	228	196633	8.419	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	42557	2.019	ng	95
88) Benzo(b)fluoranthene	15.121	252	151940m	7.317	ng	
90) Benzo(a)pyrene	15.492	252	134892	8.002	ng	# 93
92) Benzo(g,h,i)perylene	17.533	276	39907	2.276	ng	95

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

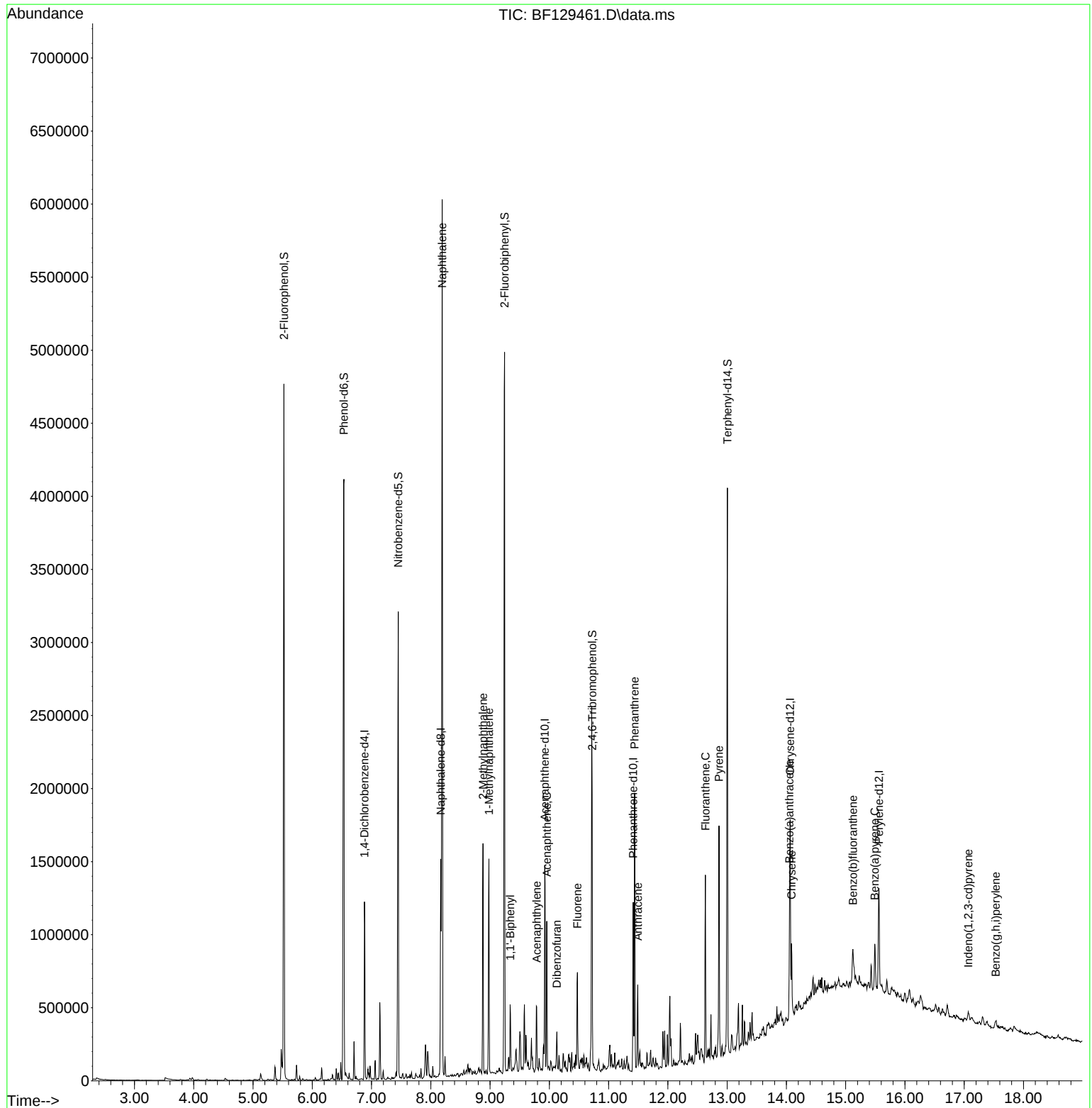
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072922\
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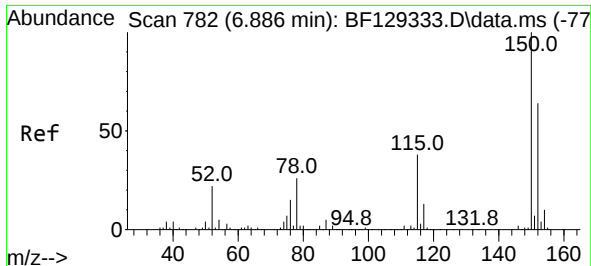
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Quant Time: Jul 30 02:04:05 2022
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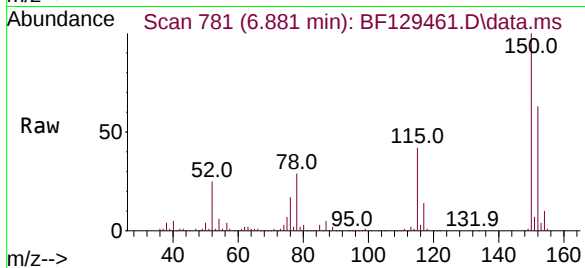
Reviewed By : Christian Giraldo 08/01/2022
Supervised By : Jagrut Upadhyay 08/01/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 782
Delta R.T. -0.005 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

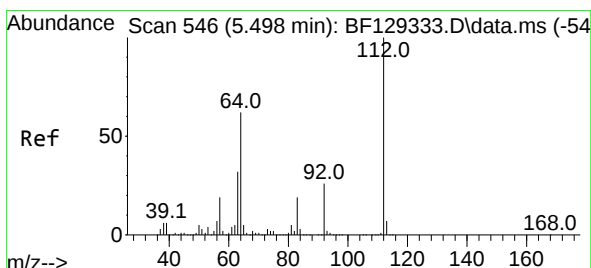
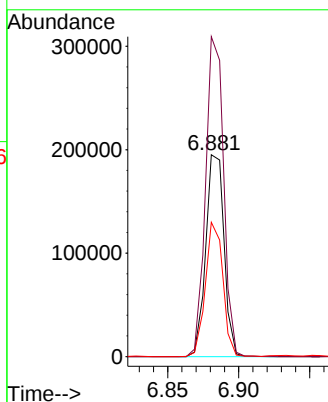
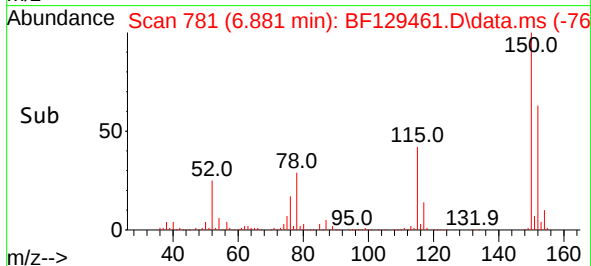
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B



Tgt Ion:152 Resp: 174722
Ion Ratio Lower Upper
152 100
150 158.5 123.7 185.5
115 66.5 49.9 74.9

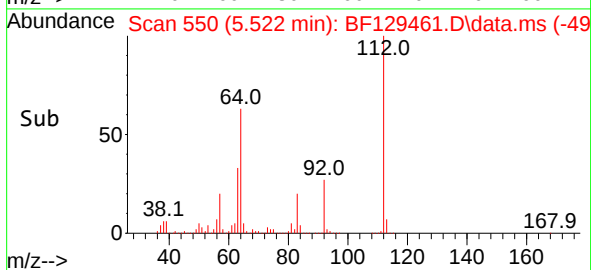
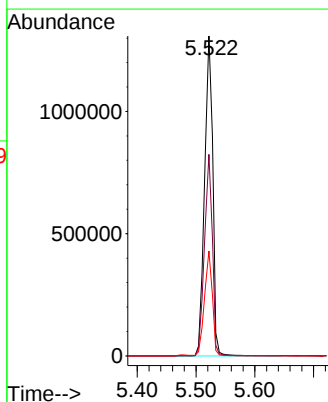
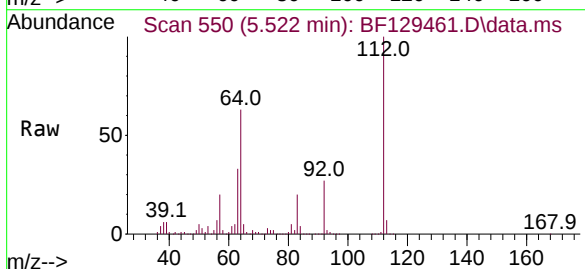
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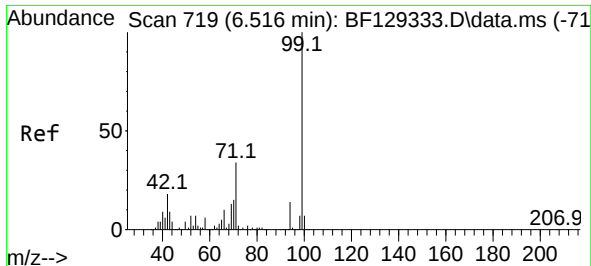
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#5
2-Fluorophenol
Concen: 118.216 ng
RT: 5.522 min Scan# 550
Delta R.T. 0.024 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

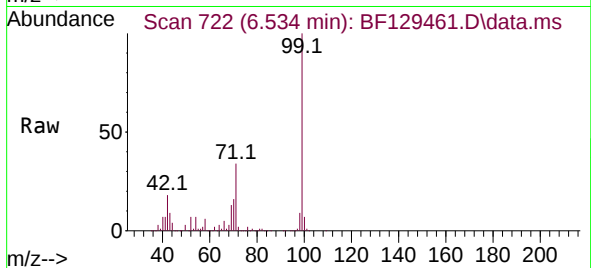
Tgt Ion:112 Resp: 1267948
Ion Ratio Lower Upper
112 100
64 63.0 53.3 79.9
63 32.8 28.0 42.0





#7
Phenol-d6
Concen: 119.101 ng
RT: 6.534 min Scan# 719
Delta R.T. 0.018 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

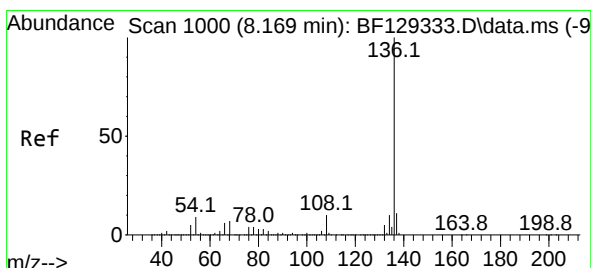
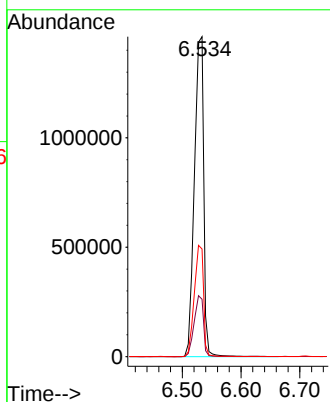
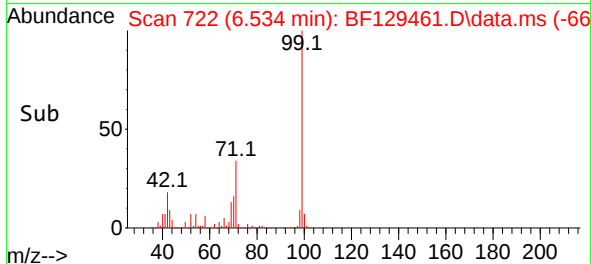
Instrument :
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ClientSampleId :
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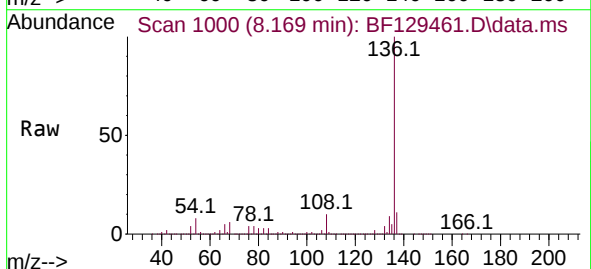
Tgt Ion: 99 Resp: 1605670
Ion Ratio Lower Upper
99 100
42 18.0 17.3 25.9
71 33.6 28.9 43.3

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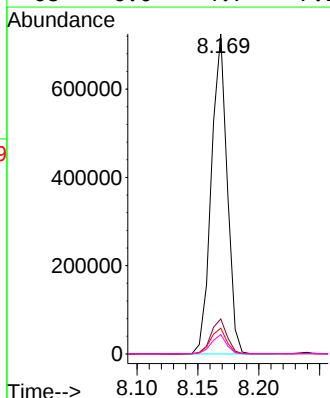
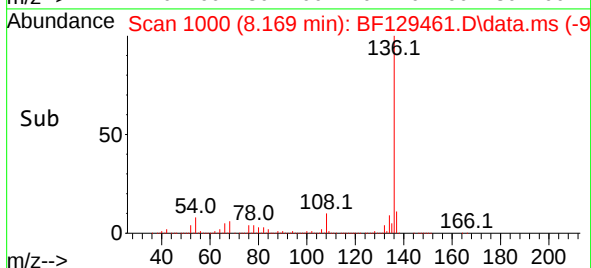
Reviewed By :Christian Giraldo 08/01/2022
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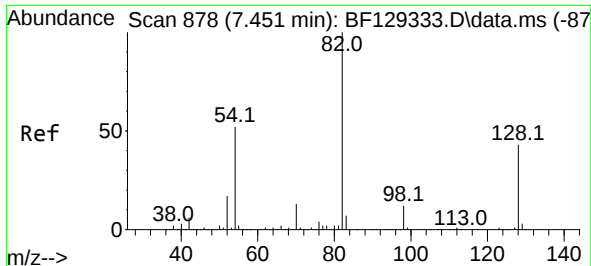


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



Tgt Ion:136 Resp: 652741
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.0 7.5 11.3
68 6.0 4.7 7.1





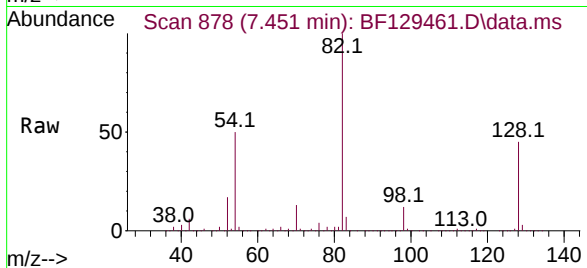
#23
Nitrobenzene-d5
Concen: 85.146 ng
RT: 7.451 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

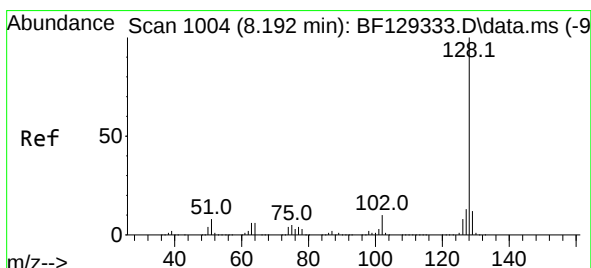
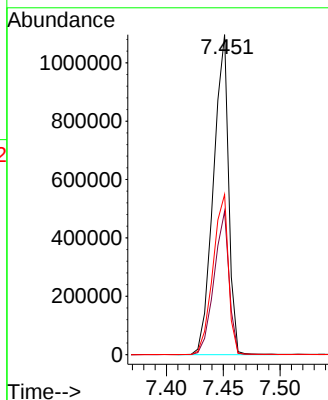
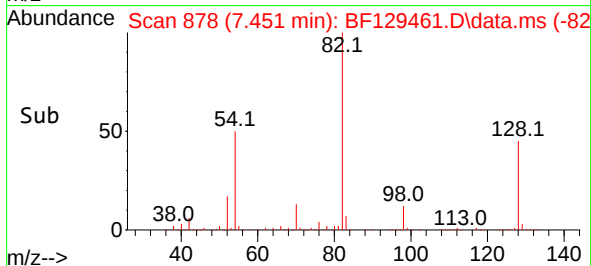


Tgt Ion: 82 Resp: 101813
Ion Ratio Lower Upper
82 100
128 44.8 34.0 51.0
54 50.0 46.9 70.3

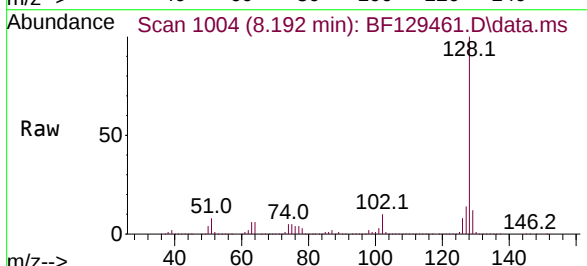
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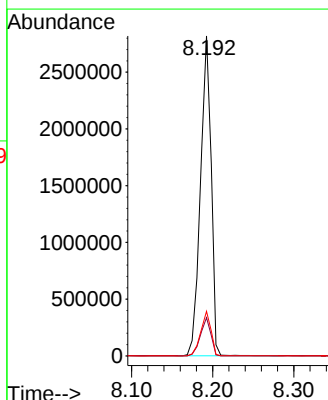
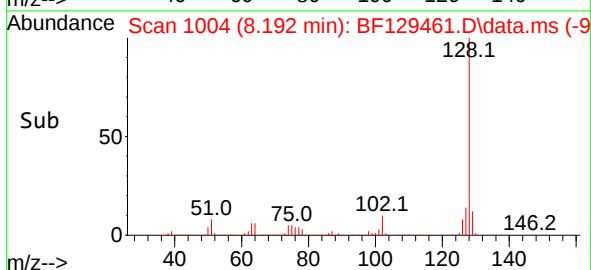
Reviewed By :Christian Giraldo 08/01/2022
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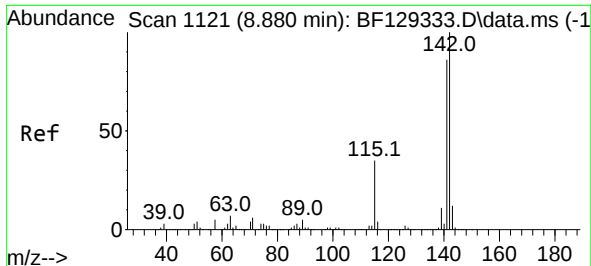


#31
Naphthalene
Concen: 77.679 ng
RT: 8.192 min Scan# 1004
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



Tgt Ion:128 Resp: 2576102
Ion Ratio Lower Upper
128 100
129 11.9 9.2 13.8
127 13.9 10.5 15.7





#37

2-Methylnaphthalene

Concen: 18.576 ng

RT: 8.880 min Scan# 1121

Delta R.T. 0.000 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

Tgt Ion:142 Resp: 400328

Ion Ratio Lower Upper

142 100

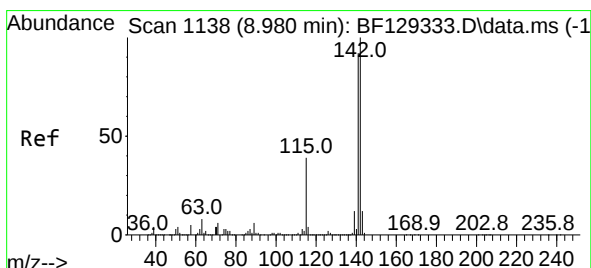
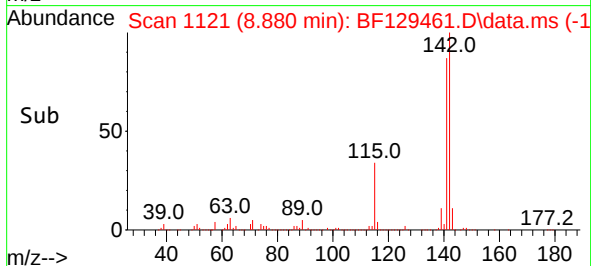
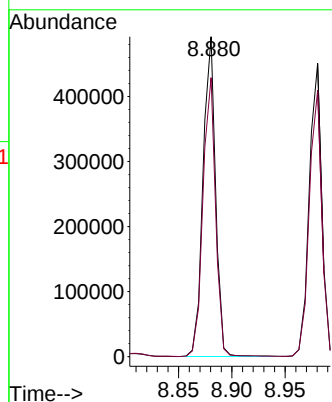
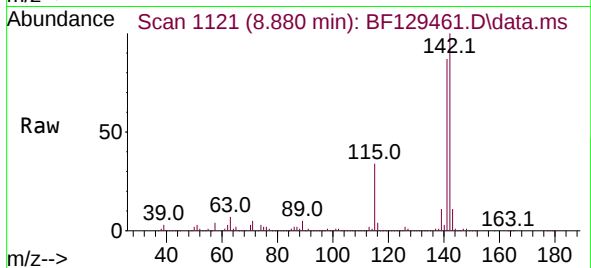
141 87.2 71.0 106.4

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 17.751 ng

RT: 8.980 min Scan# 1138

Delta R.T. 0.000 min

Lab File: BF129461.D

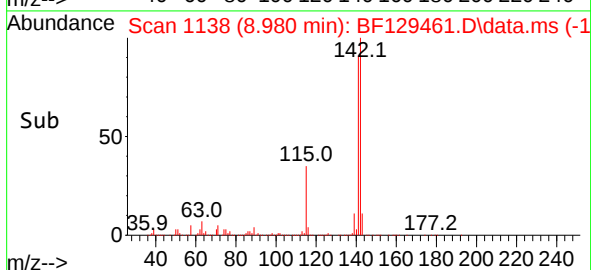
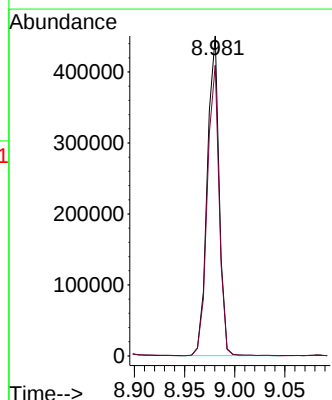
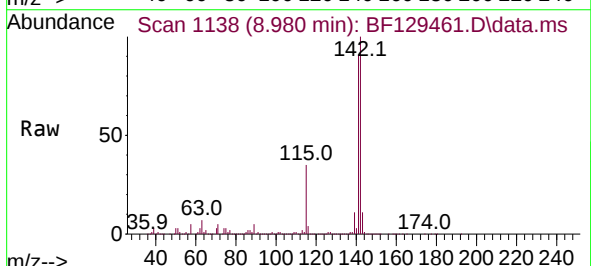
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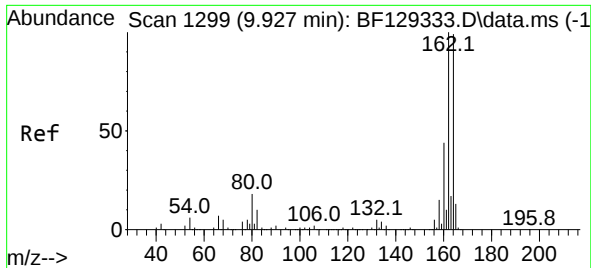
Tgt Ion:142 Resp: 369303

Ion Ratio Lower Upper

142 100

141 90.8 74.2 111.4





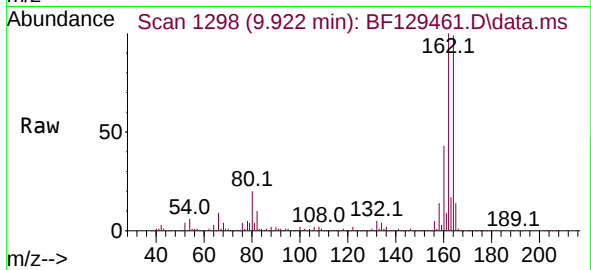
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1299
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

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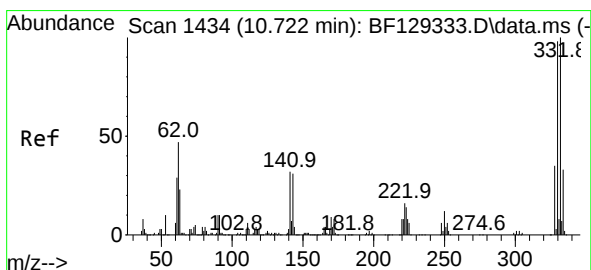
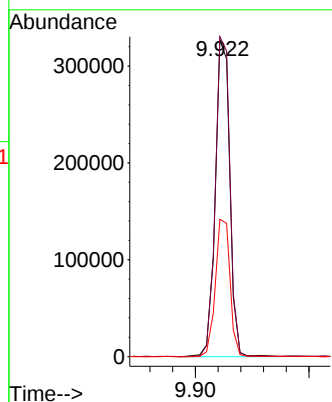
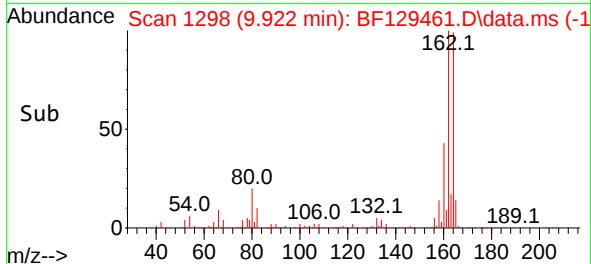


Tgt Ion:164 Resp: 289474
Ion Ratio Lower Upper
164 100
162 101.1 79.5 119.3
160 43.4 34.2 51.4

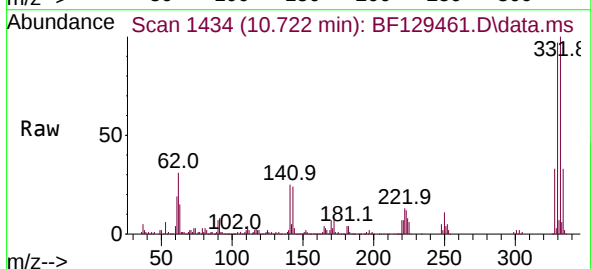
Manual Integrations

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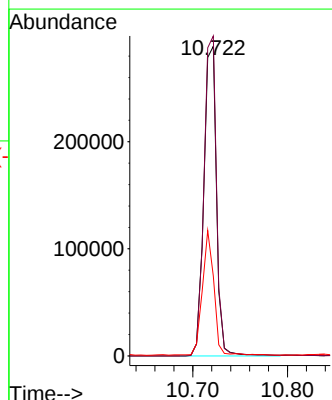
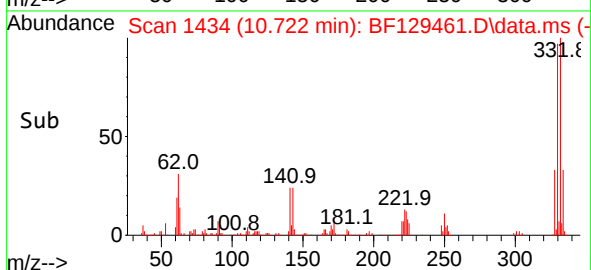
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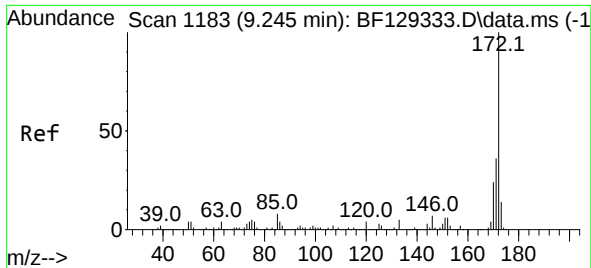


#42
2,4,6-Tribromophenol
Concen: 96.756 ng
RT: 10.722 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



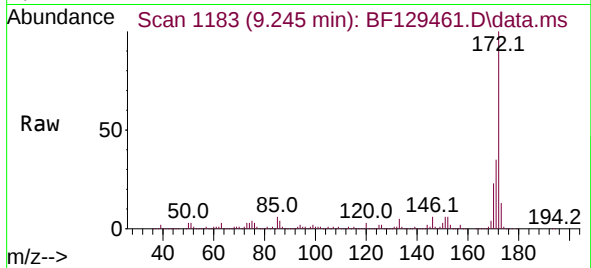
Tgt Ion:330 Resp: 269278
Ion Ratio Lower Upper
330 100
332 102.7 76.8 115.2
141 36.6 28.0 42.0





#45
2-Fluorobiphenyl
Concen: 83.627 ng
RT: 9.245 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

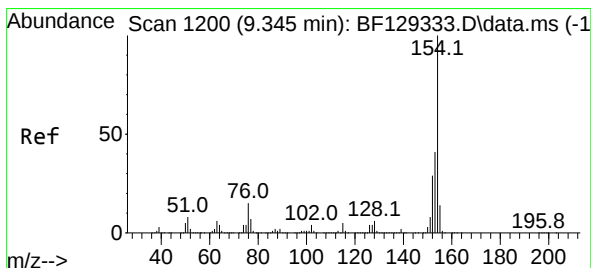
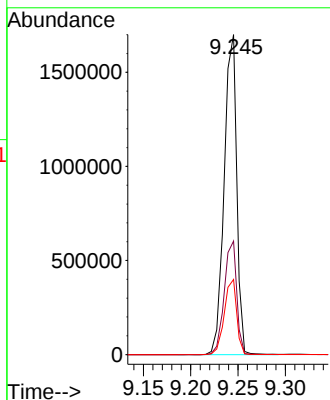
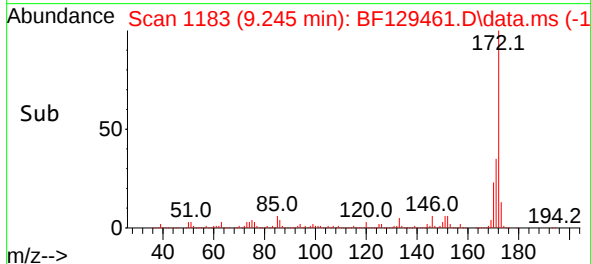
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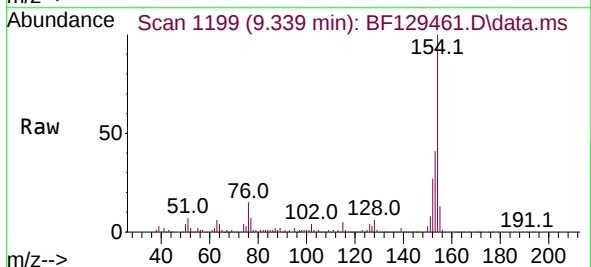
Tgt Ion:172 Resp: 1564874
Ion Ratio Lower Upper
172 100
171 35.5 28.8 43.2
170 23.5 19.8 29.8

Manual Integrations
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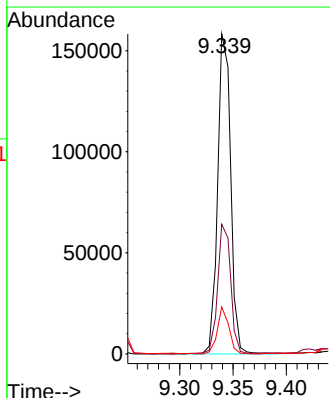
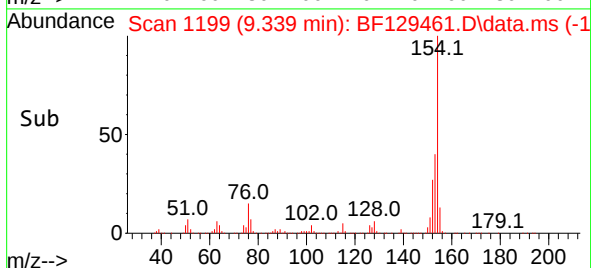
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

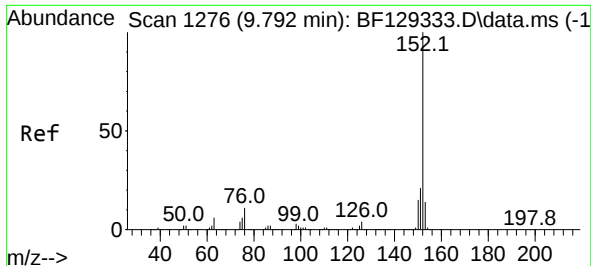


#46
1,1'-Biphenyl
Concen: 6.390 ng
RT: 9.339 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



Tgt Ion:154 Resp: 134984
Ion Ratio Lower Upper
154 100
153 40.5 20.6 60.6
76 14.7 0.0 33.3





#49

Acenaphthylene

Concen: 4.368 ng

RT: 9.786 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:152 Resp: 113346

Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

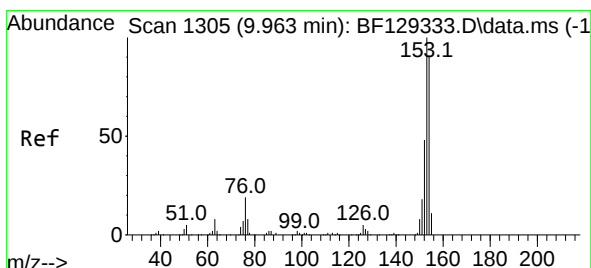
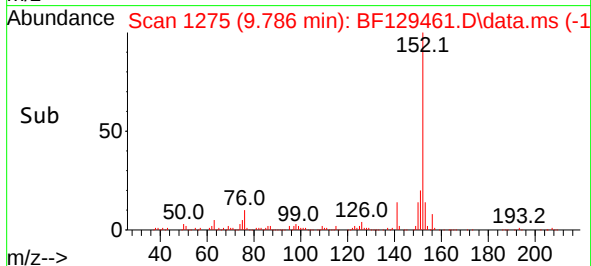
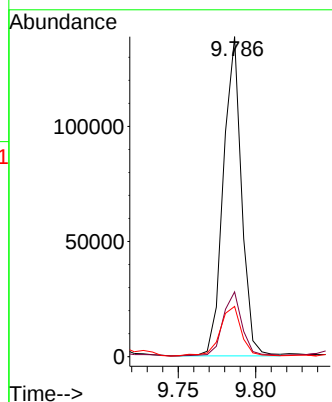
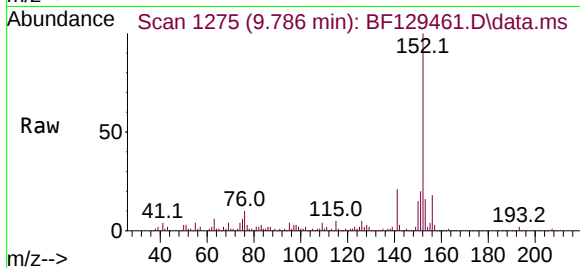
153 15.7 10.7 16.1

Manual Integrations

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#52

Acenaphthene

Concen: 10.619 ng

RT: 9.957 min Scan# 1304

Delta R.T. -0.006 min

Lab File: BF129461.D

Acq: 30 Jul 2022 01:37

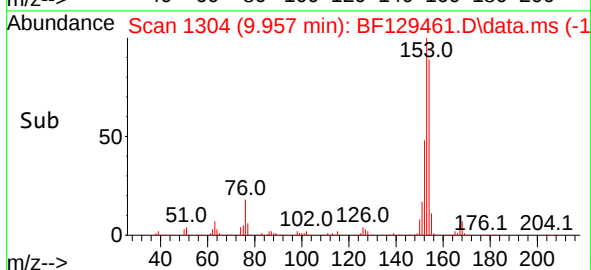
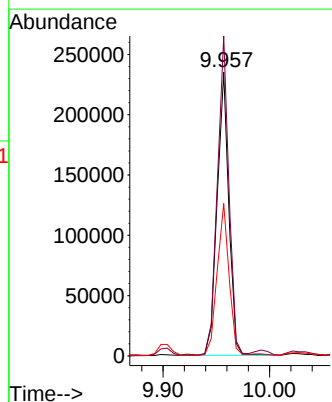
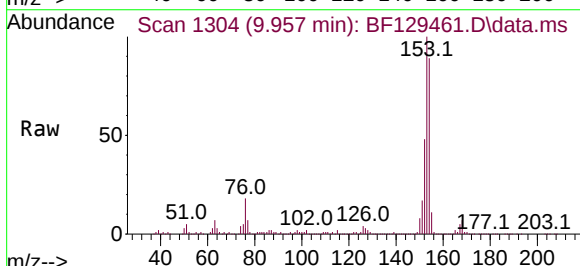
Tgt Ion:154 Resp: 179986

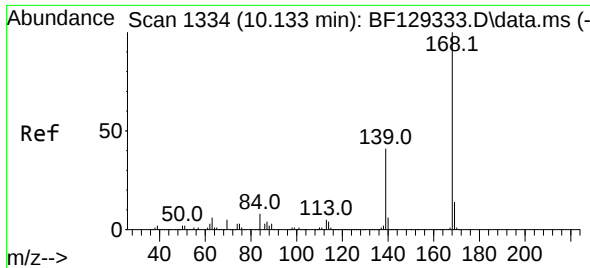
Ion Ratio Lower Upper

154 100

153 112.8 89.6 134.4

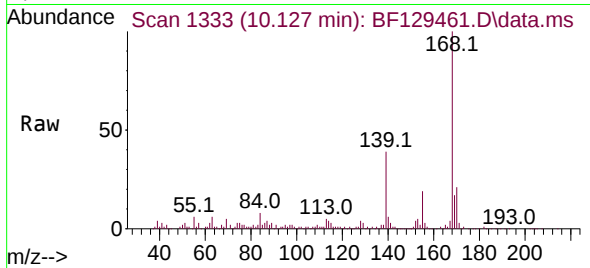
152 53.7 42.4 63.6





#55
Dibenzenofuran
Concen: 2.871 ng
RT: 10.127 min Scan# 1333
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

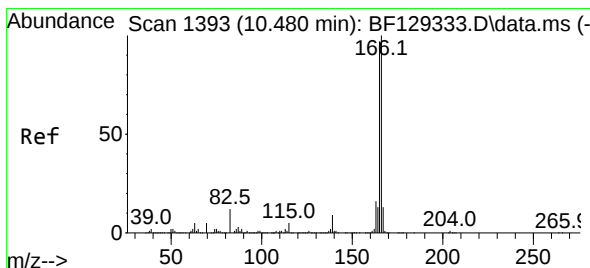
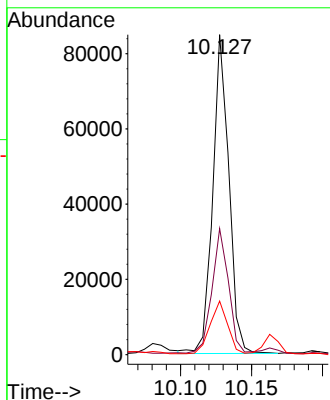
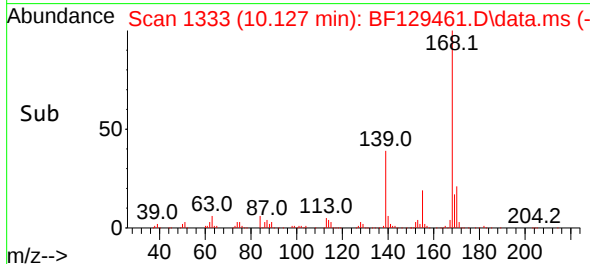
Instrument :
BNA_F
ClientSampleId :
HMGP-SOIL-B



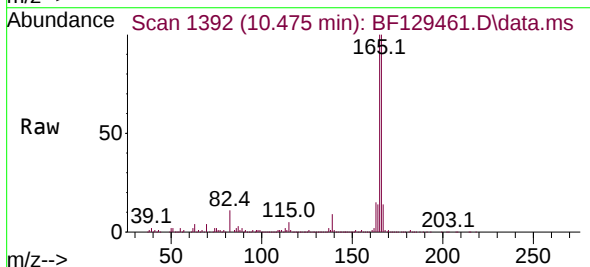
Tgt Ion:168 Resp: 67079
Ion Ratio Lower Upper
168 100
139 39.4 30.6 46.0
169 16.7 11.0 16.6

Manual Integrations
APPROVED

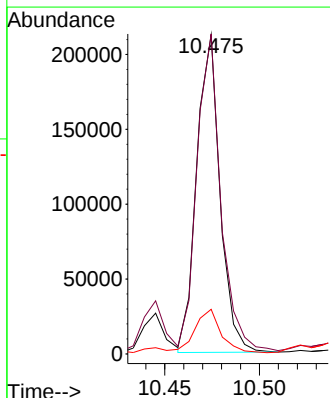
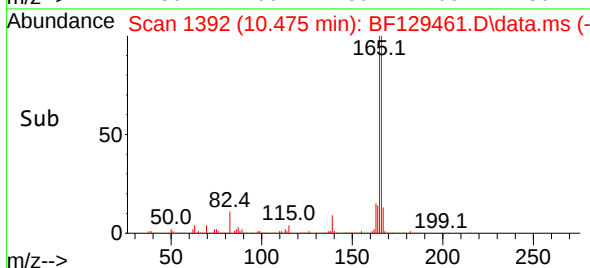
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

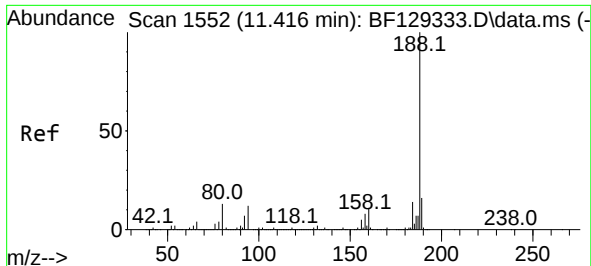


#58
Fluorene
Concen: 9.739 ng
RT: 10.475 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



Tgt Ion:166 Resp: 182065
Ion Ratio Lower Upper
166 100
165 100.3 78.1 117.1
167 14.0 10.5 15.7





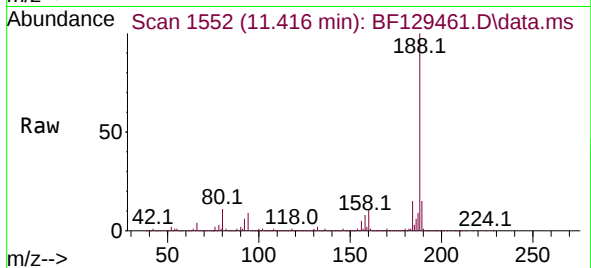
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

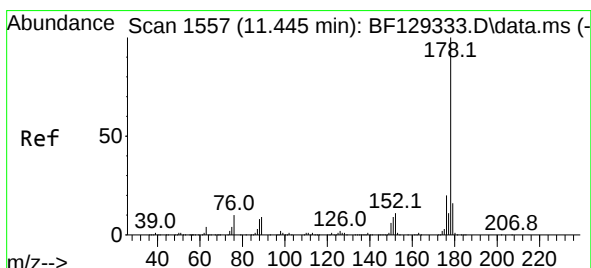
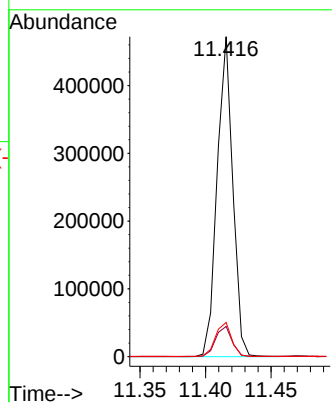
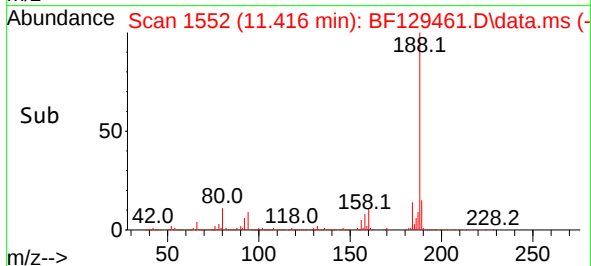


Tgt Ion:188 Resp: 391440
Ion Ratio Lower Upper
188 100
94 9.4 7.0 10.6
80 10.7 7.6 11.4

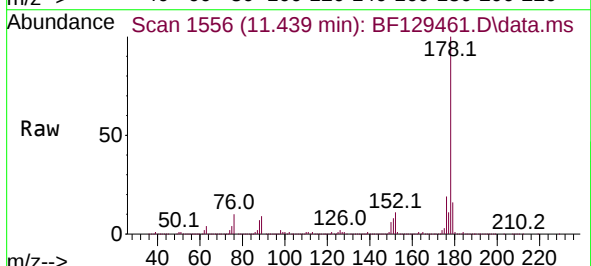
Manual Integrations

APPROVED

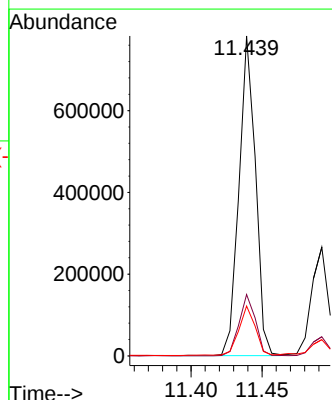
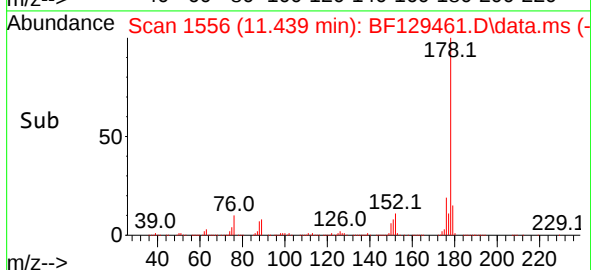
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

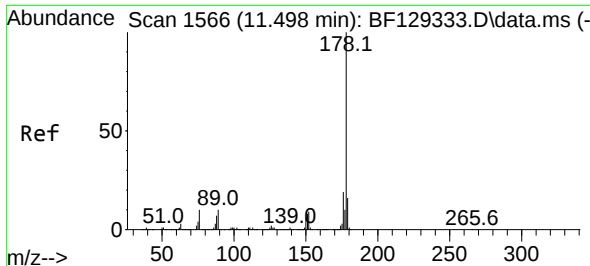


#71
Phenanthrene
Concen: 29.527 ng
RT: 11.439 min Scan# 1556
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



Tgt Ion:178 Resp: 630922
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.6 12.6 19.0





#72
 Anthracene
 Concen: 10.141 ng
 RT: 11.492 min Scan# 1566
 Delta R.T. -0.006 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

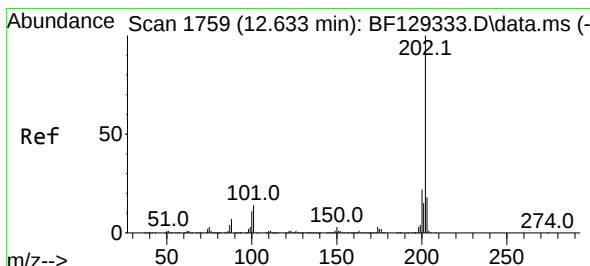
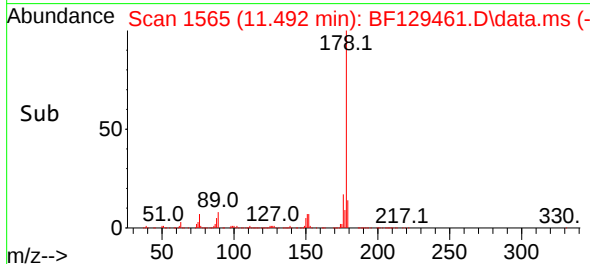
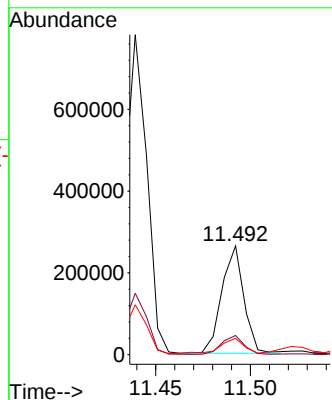
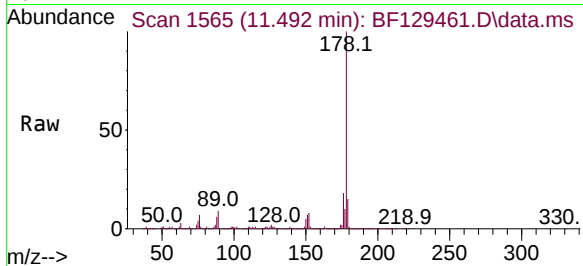
ClientSampleId :

HMGP-SOIL-B

Tgt Ion:178 Resp: 212950
 Ion Ratio Lower Upper
 178 100
 176 17.5 15.4 23.2
 179 14.9 12.6 19.0

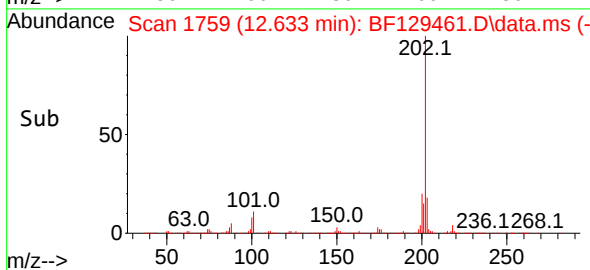
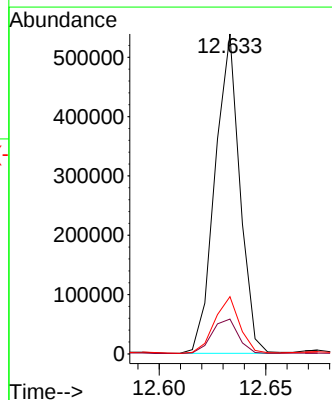
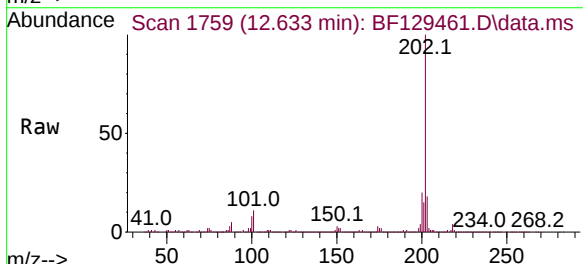
Manual Integrations
 APPROVED

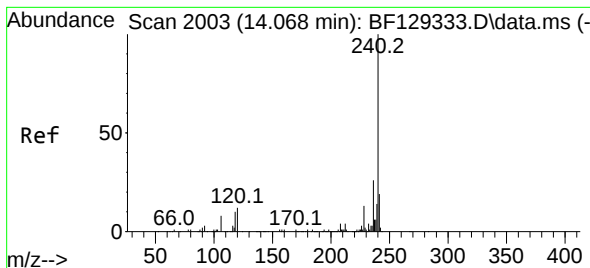
Reviewed By :Christian Giraldo 08/01/2022
 Supervised By :Jagrut Upadhyay 08/01/2022



#75
 Fluoranthene
 Concen: 20.173 ng
 RT: 12.633 min Scan# 1759
 Delta R.T. 0.000 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Tgt Ion:202 Resp: 436754
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 31.4
 203 17.9 0.0 38.0





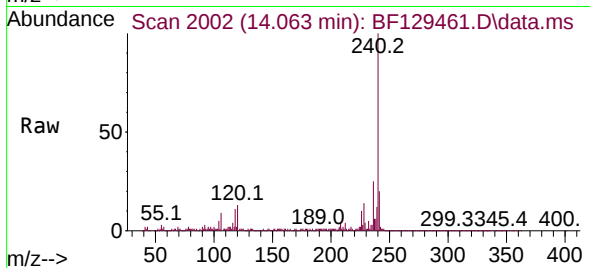
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2003
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

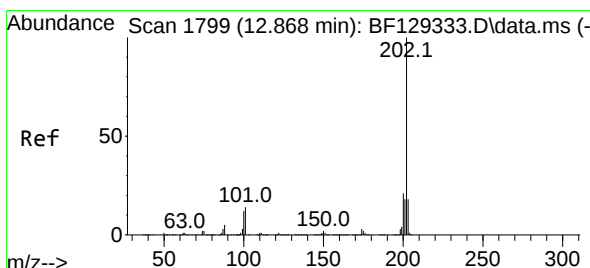
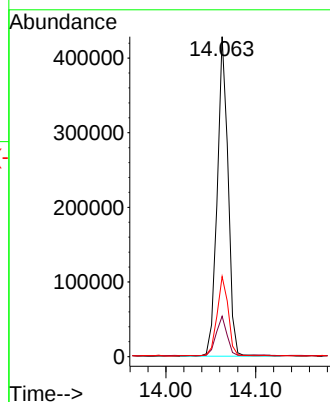
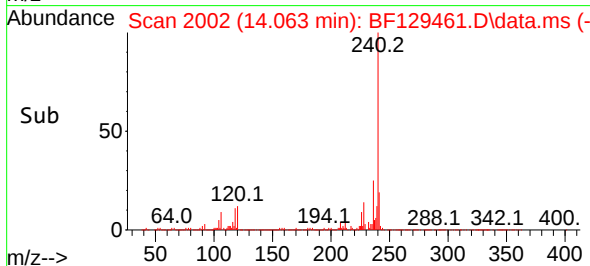


Tgt Ion:240 Resp: 362785
Ion Ratio Lower Upper
240 100
120 12.6 8.9 13.3
236 25.0 20.8 31.2

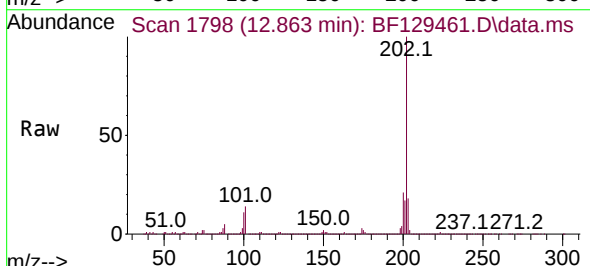
Manual Integrations

APPROVED

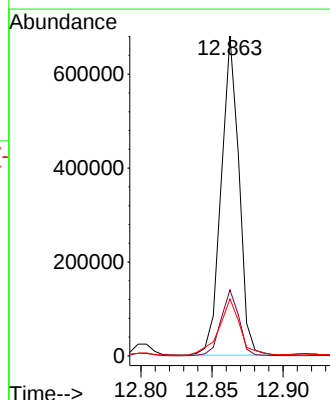
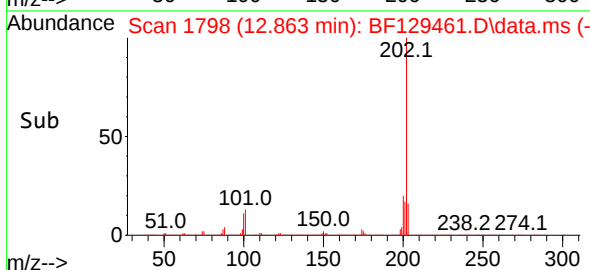
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022

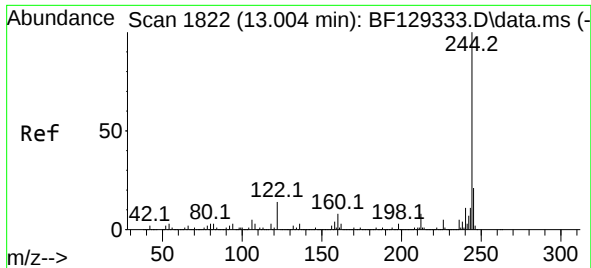


#78
Pyrene
Concen: 19.590 ng
RT: 12.863 min Scan# 1798
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37



Tgt Ion:202 Resp: 594318
Ion Ratio Lower Upper
202 100
200 20.6 17.7 26.5
203 17.8 14.6 21.8





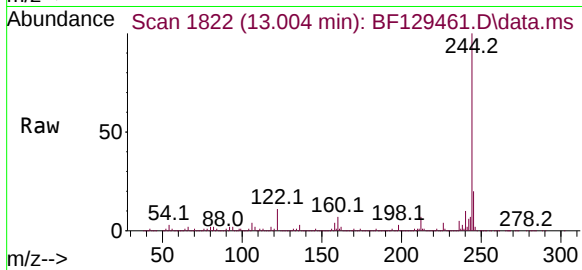
#79
 Terphenyl-d14
 Concen: 65.142 ng
 RT: 13.004 min Scan# 1822
 Delta R.T. 0.000 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

HMGP-SOIL-B

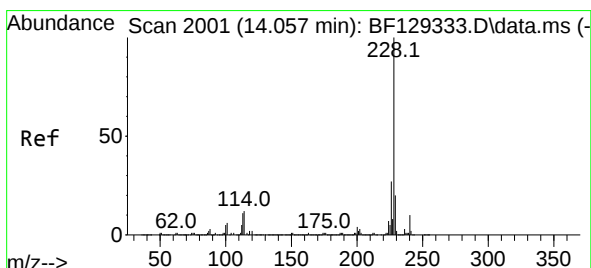
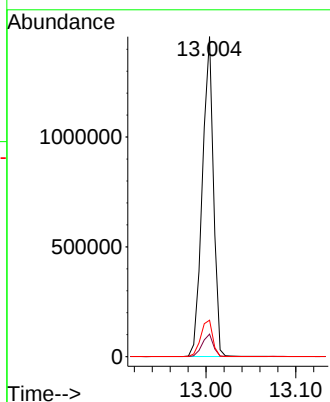
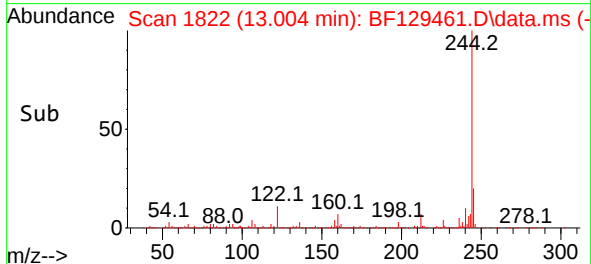


Tgt Ion:244 Resp: 1252662
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.1 9.1
 122 11.4 8.8 13.2

Manual Integrations

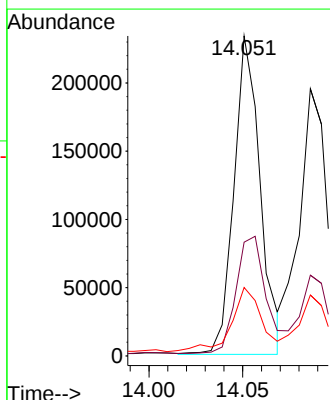
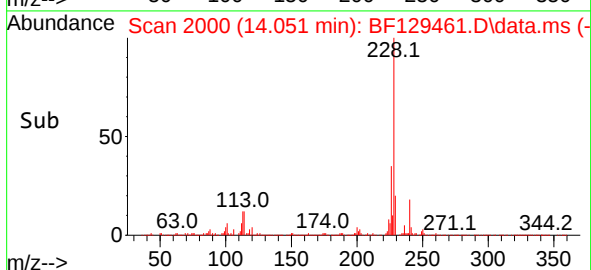
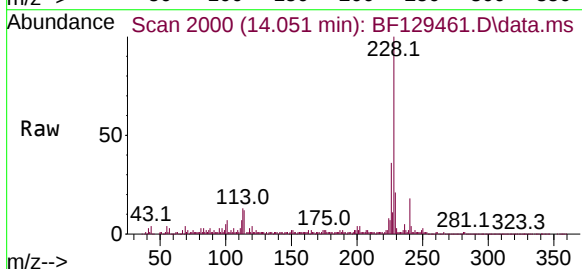
APPROVED

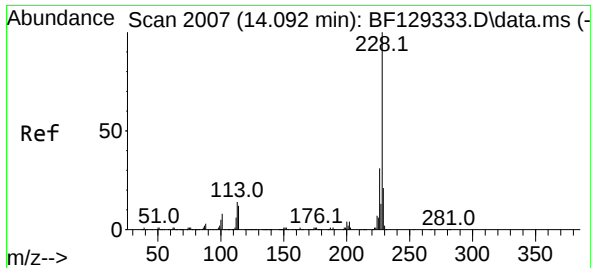
Reviewed By :Christian Giraldo 08/01/2022
 Supervised By :Jagrut Upadhyay 08/01/2022



#81
 Benzo(a)anthracene
 Concen: 9.186 ng m
 RT: 14.051 min Scan# 2000
 Delta R.T. -0.006 min
 Lab File: BF129461.D
 Acq: 30 Jul 2022 01:37

Tgt Ion:228 Resp: 227645
 Ion Ratio Lower Upper
 228 100
 226 35.5 22.1 33.1#
 229 21.4 15.8 23.8





#83
Chrysene
Concen: 8.419 ng
RT: 14.086 min Scan# 2007
Delta R.T. -0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

ClientSampleId :

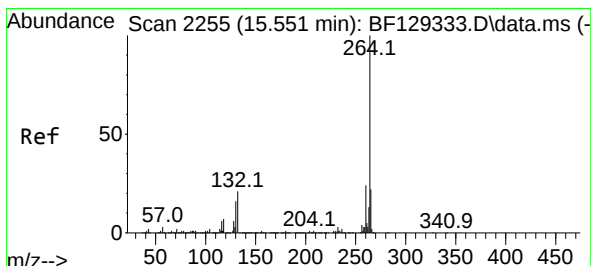
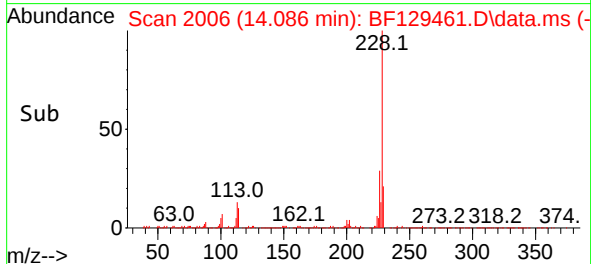
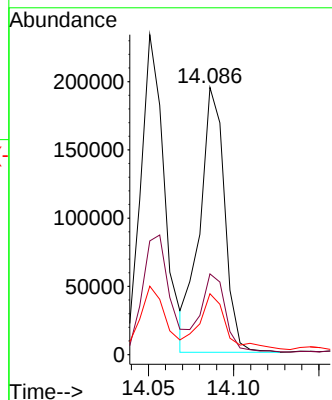
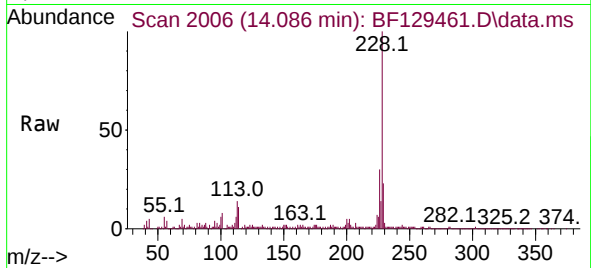
HMGP-SOIL-B

Tgt Ion:228 Resp: 196633
Ion Ratio Lower Upper
228 100
226 30.2 24.3 36.5
229 22.8 15.9 23.9

Manual Integrations

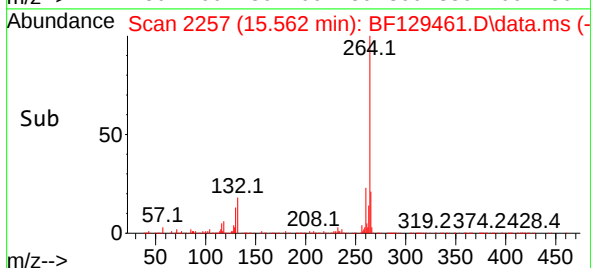
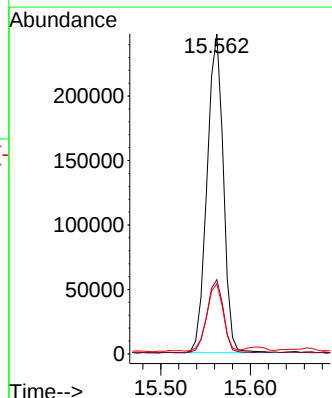
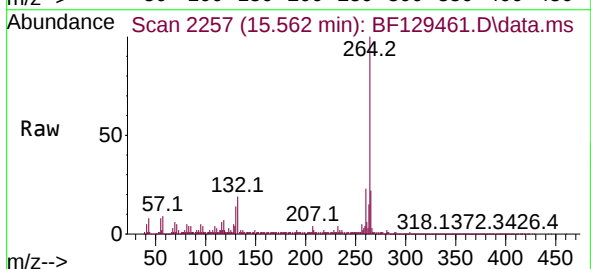
APPROVED

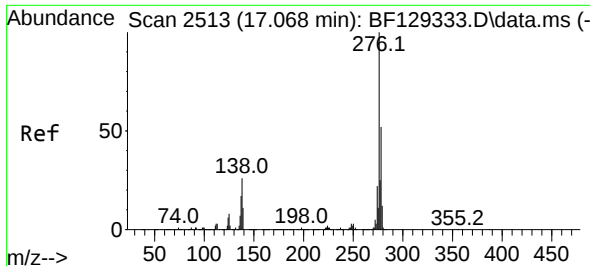
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2257
Delta R.T. 0.012 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:264 Resp: 313038
Ion Ratio Lower Upper
264 100
260 23.2 18.4 27.6
265 21.9 17.2 25.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 2.019 ng
RT: 17.068 min Scan# 2182
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNA_F

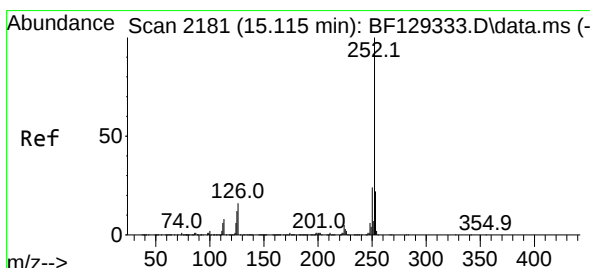
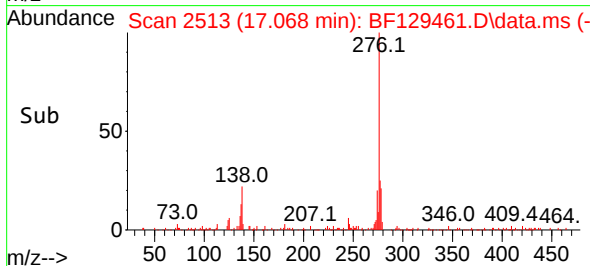
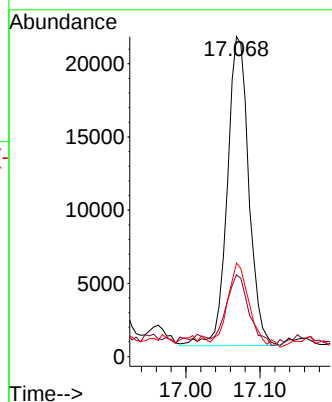
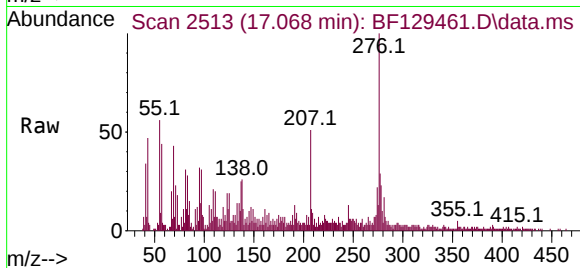
ClientSampleId :

HMGP-SOIL-B

Tgt Ion:276 Resp: 42552
Ion Ratio Lower Upper
276 100
138 24.0 21.1 31.7
277 27.8 20.3 30.5

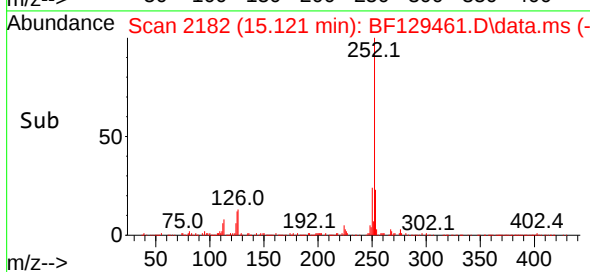
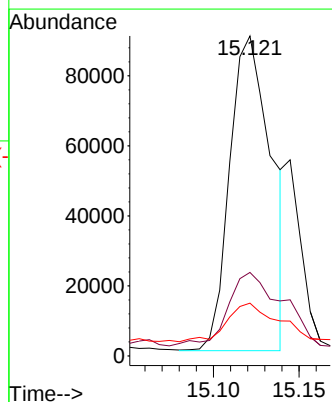
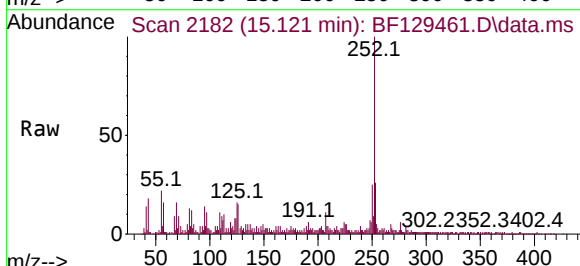
Manual Integrations
APPROVED

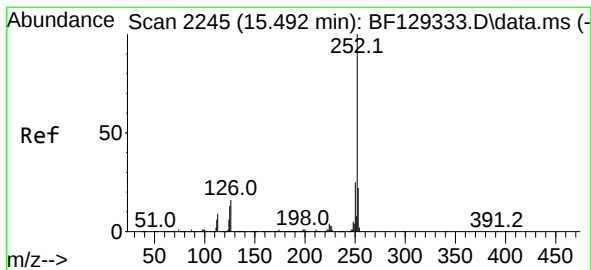
Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#88
Benzo(b)fluoranthene
Concen: 7.317 ng m
RT: 15.121 min Scan# 2182
Delta R.T. 0.006 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:252 Resp: 151940
Ion Ratio Lower Upper
252 100
253 26.1 17.7 26.5
125 16.5 8.0 12.0#





#90
Benzo(a)pyrene
Concen: 8.002 ng
RT: 15.492 min Scan# 2245
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Instrument :

BNF

ClientSampleId :

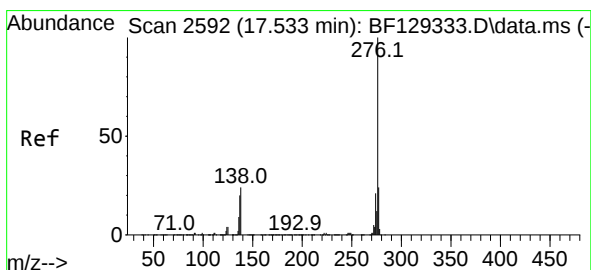
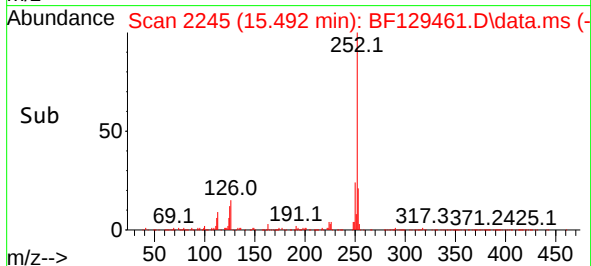
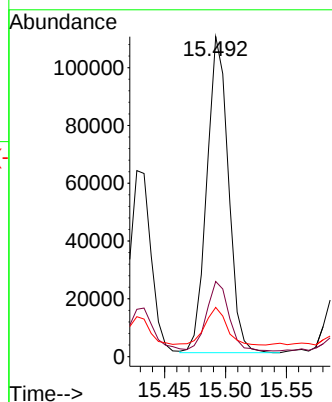
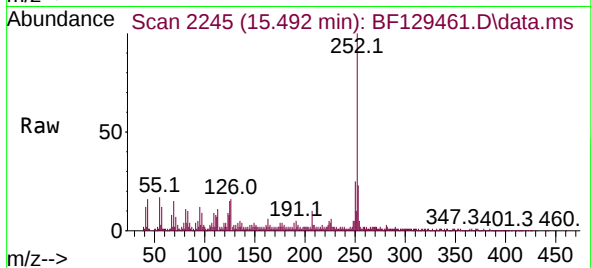
HMGP-SOIL-B

Tgt Ion:252 Resp: 134892
Ion Ratio Lower Upper
252 100
253 23.5 17.0 25.6
125 15.4 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 08/01/2022
Supervised By :Jagrut Upadhyay 08/01/2022



#92
Benzo(g,h,i)perylene
Concen: 2.276 ng
RT: 17.533 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BF129461.D
Acq: 30 Jul 2022 01:37

Tgt Ion:276 Resp: 39907
Ion Ratio Lower Upper
276 100
277 27.5 19.1 28.7
138 24.0 18.0 27.0

