

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012822\
 Data File : BF126735.D
 Acq On : 28 Jan 2022 23:48
 Operator : CG/JU
 Sample : N1310-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/31/2022
 Supervised By : Jagrut Upadhyay 01/31/2022

Quant Time: Jan 29 02:31:43 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 27 03:09:40 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.957	152	171594	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	626714	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	303554	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	441869	20.000	ng	0.00
76) Chrysene-d12	14.139	240	380305	20.000	ng	# 0.00
86) Perylene-d12	15.662	264	408733	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	271203	20.798	ng	0.00
7) Phenol-d6	6.563	99	359575	19.847	ng	-0.01
23) Nitrobenzene-d5	7.510	82	232984	14.551	ng	-0.01
42) 2,4,6-Tribromophenol	10.786	330	42194	14.853	ng	0.00
45) 2-Fluorobiphenyl	9.310	172	313799	15.832	ng	0.00
79) Terphenyl-d14	13.074	244	265279	11.700	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.257	128	102133	3.017	ng	99
37) 2-Methylnaphthalene	8.951	142	81514	3.871	ng	97
38) 1-Methylnaphthalene	9.051	142	48691	2.386	ng	98
49) Acenaphthylene	9.857	152	62140	2.205	ng	99
52) Acenaphthene	10.033	154	452170	26.242	ng	98
55) Dibenzofuran	10.204	168	314389	12.141	ng	95
58) Fluorene	10.545	166	434216	22.210	ng	99
71) Phenanthrene	11.522	178	2017897	79.934	ng	98
72) Anthracene	11.569	178	267898	10.577	ng	98
73) Carbazole	11.716	167	115075	4.839	ng	98
75) Fluoranthene	12.716	202	2071901	83.093	ng	98
78) Pyrene	12.945	202	1584522	51.522	ng	98
81) Benzo(a)anthracene	14.127	228	527549	20.409	ng	99
83) Chrysene	14.168	228	399641	16.068	ng	97
87) Indeno(1,2,3-cd)pyrene	17.209	276	59105	2.340	ng	# 91
88) Benzo(b)fluoranthene	15.210	252	362625m	13.379	ng	
89) Benzo(k)fluoranthene	15.233	252	113091m	4.249	ng	
90) Benzo(a)pyrene	15.592	252	182937m	8.295	ng	
92) Benzo(g,h,i)perylene	17.680	276	49818	2.428	ng	94

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

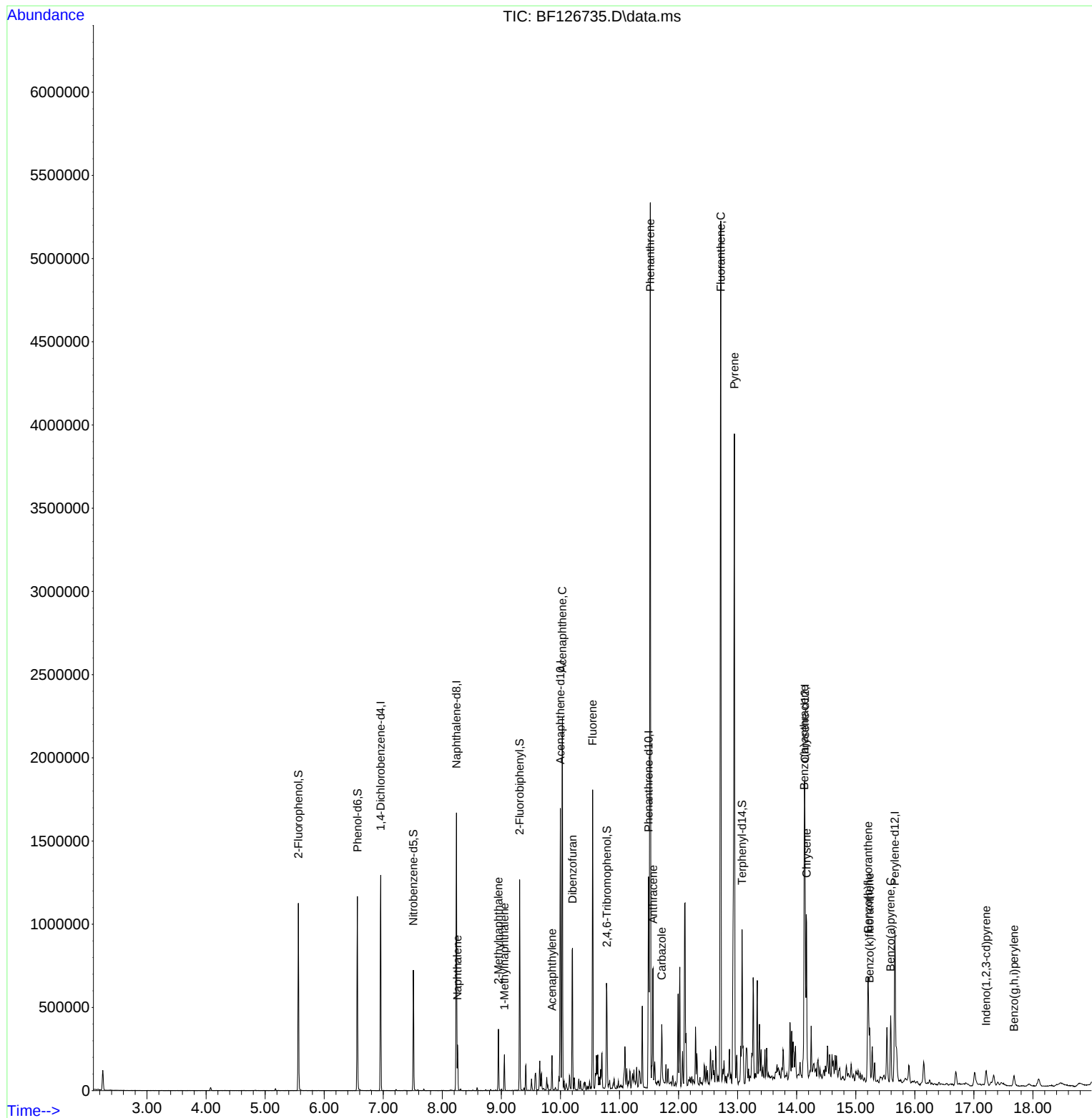
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012822\
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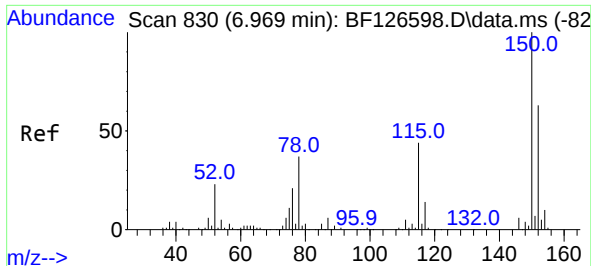
Instrument :
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Quant Time: Jan 29 02:31:43 2022
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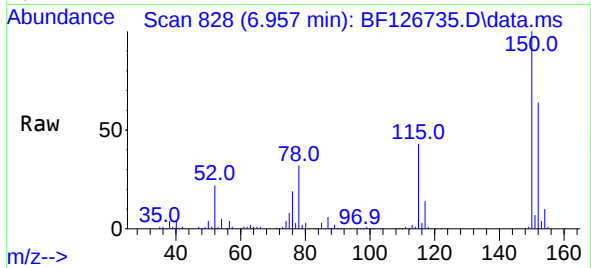
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.957 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

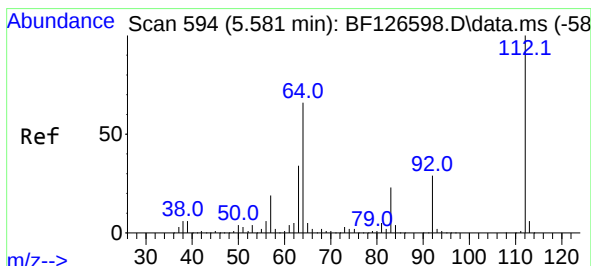
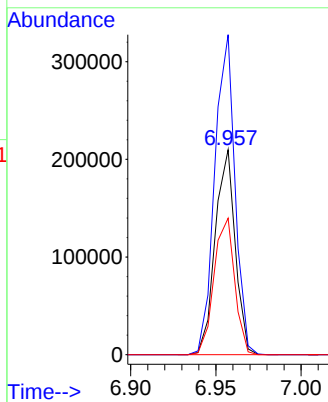
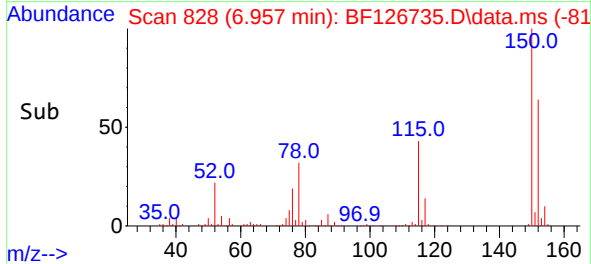
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BNA_F
ClientSampleId :
SOIL-PILE



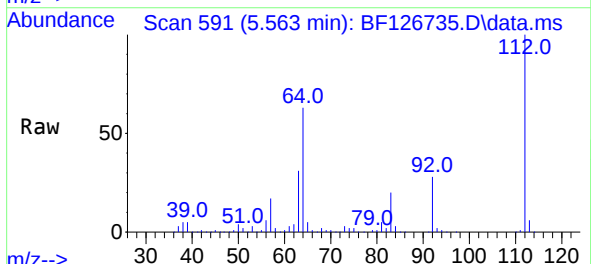
Tgt Ion:152 Resp: 171594
Ion Ratio Lower Upper
152 100
150 156.1 128.1 192.1
115 66.6 56.7 85.1

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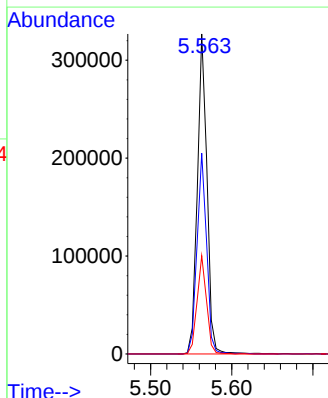
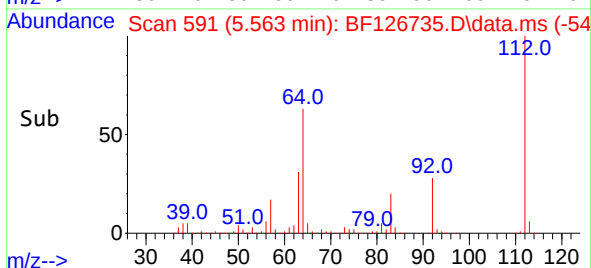
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

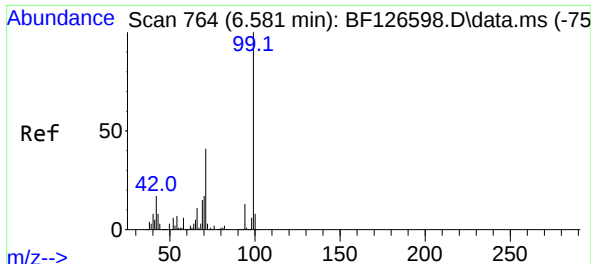


#5
2-Fluorophenol
Concen: 20.798 ng
RT: 5.563 min Scan# 591
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



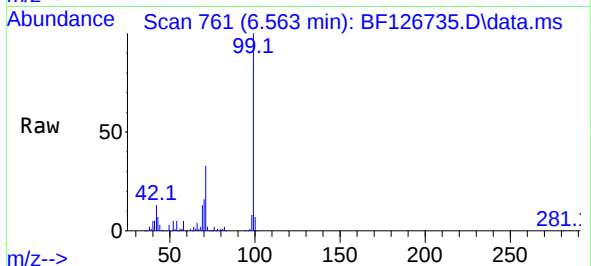
Tgt Ion:112 Resp: 271203
Ion Ratio Lower Upper
112 100
64 62.8 49.5 74.3
63 30.7 23.9 35.9





#7
Phenol-d6
Concen: 19.847 ng
RT: 6.563 min Scan# 70
Delta R.T. -0.012 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

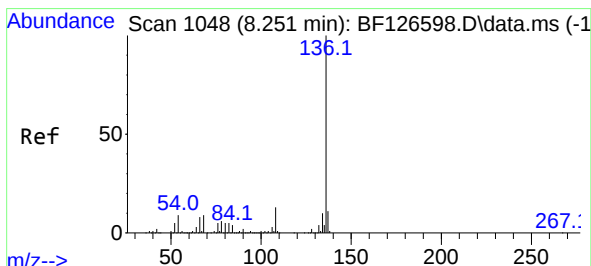
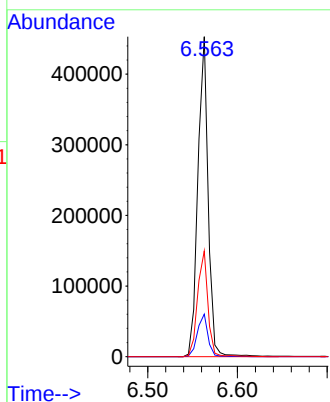
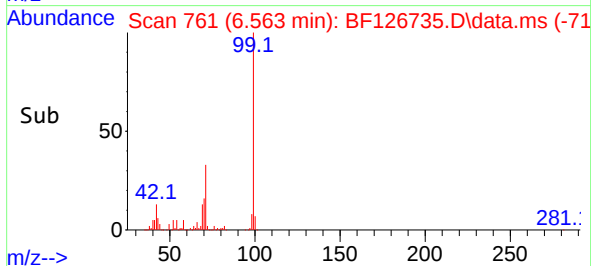
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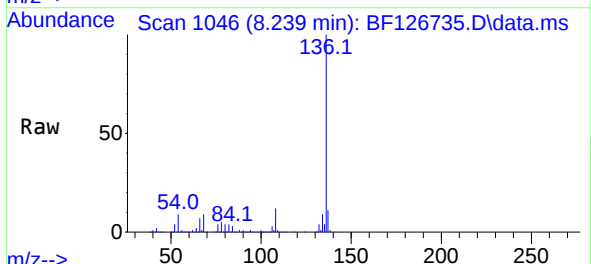
Tgt Ion: 99 Resp: 359579
Ion Ratio Lower Upper
99 100
42 13.3 14.2 21.4
71 33.1 24.3 36.5

Manual Integrations
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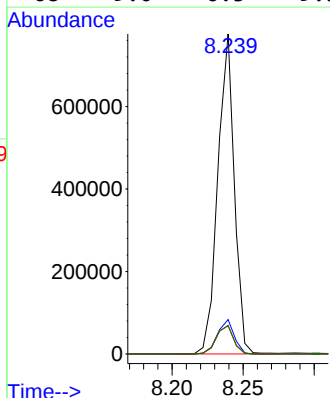
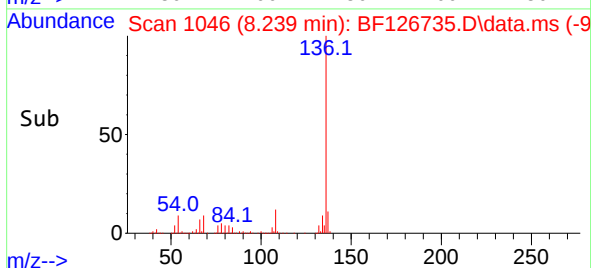
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

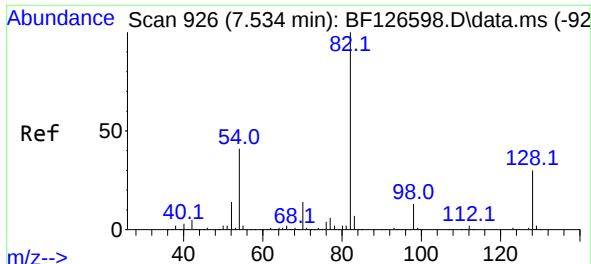


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



Tgt Ion:136 Resp: 626714
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.8 7.8 11.6
68 9.0 6.3 9.5





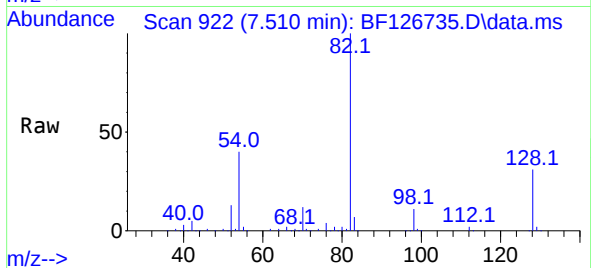
#23
Nitrobenzene-d5
Concen: 14.551 ng
RT: 7.510 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

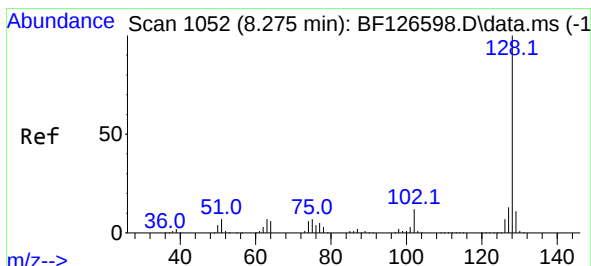
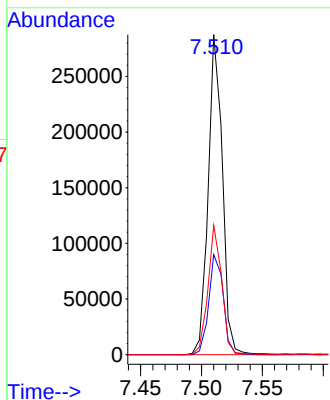
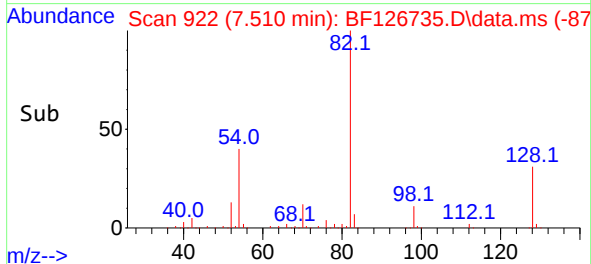


Tgt Ion: 82 Resp: 232984
Ion Ratio Lower Upper
82 100
128 31.2 32.7 49.1
54 40.4 41.7 62.5

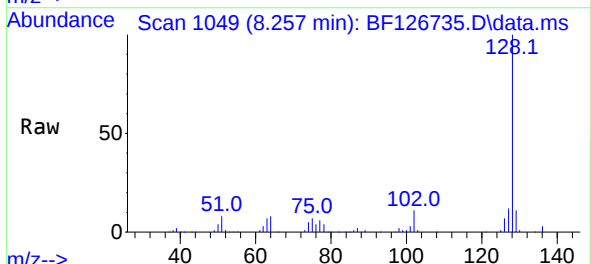
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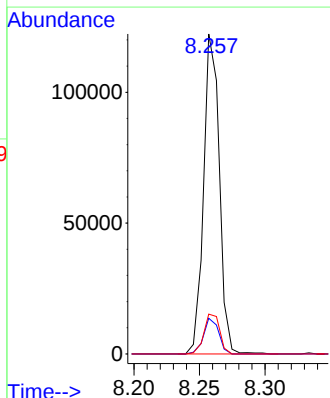
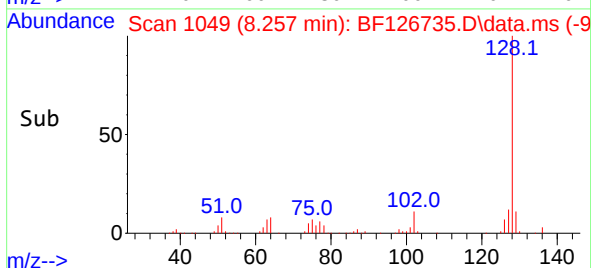
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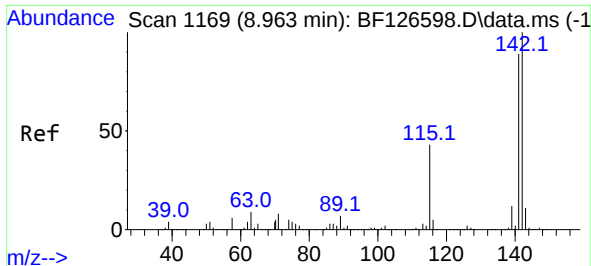


#31
Naphthalene
Concen: 3.017 ng
RT: 8.257 min Scan# 1049
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



Tgt Ion:128 Resp: 102133
Ion Ratio Lower Upper
128 100
129 11.2 8.6 13.0
127 12.5 10.3 15.5





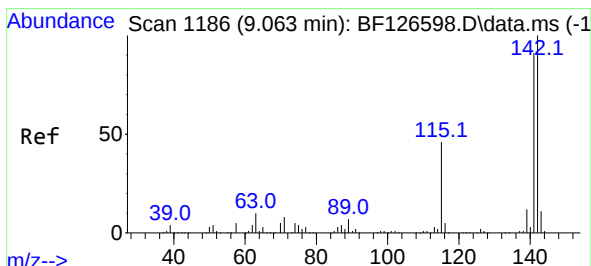
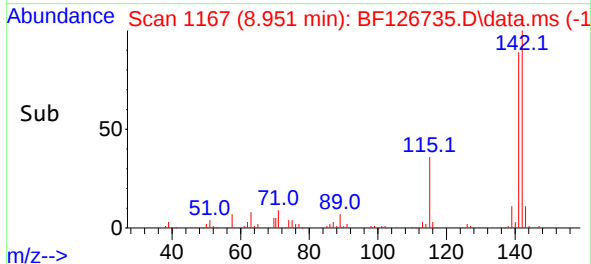
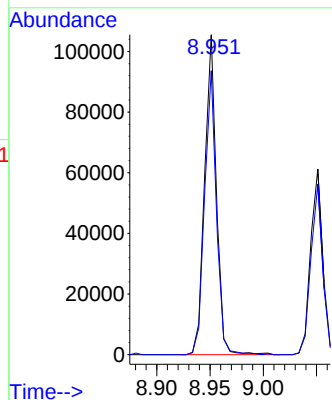
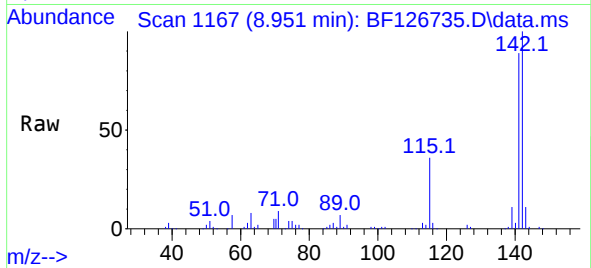
#37
2-Methylnaphthalene
Concen: 3.871 ng
RT: 8.951 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:142 Resp: 81514
Ion Ratio Lower Upper
142 100
141 88.7 68.6 102.8

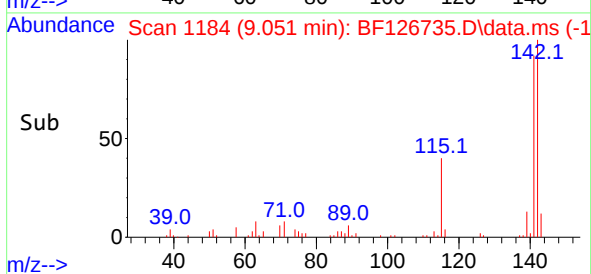
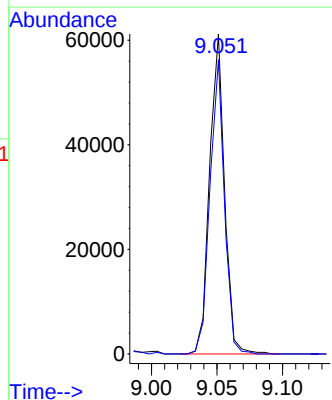
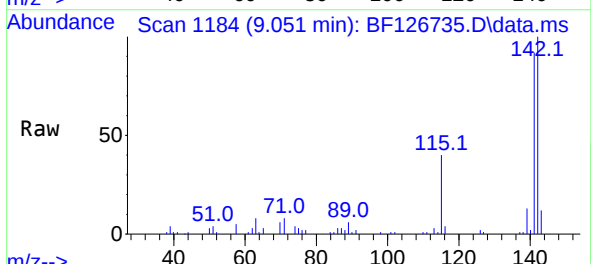
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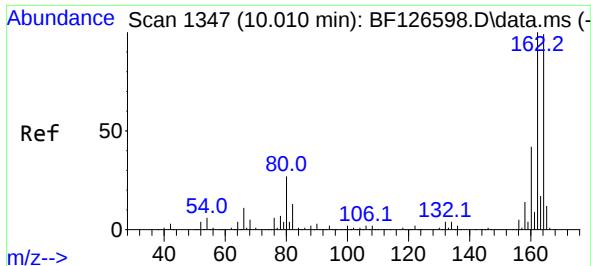
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022



#38
1-Methylnaphthalene
Concen: 2.386 ng
RT: 9.051 min Scan# 1184
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

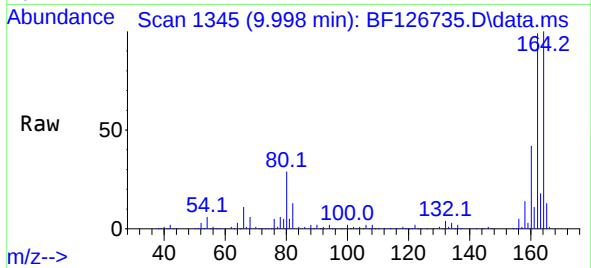
Tgt Ion:142 Resp: 48691
Ion Ratio Lower Upper
142 100
141 91.9 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

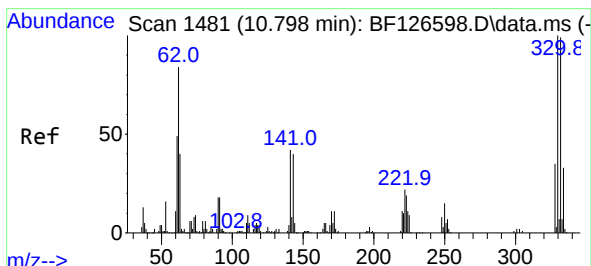
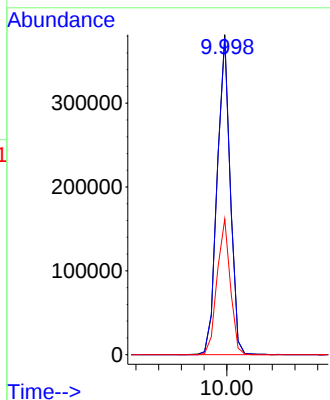
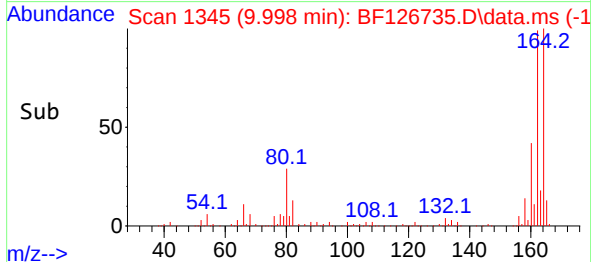
Instrument :
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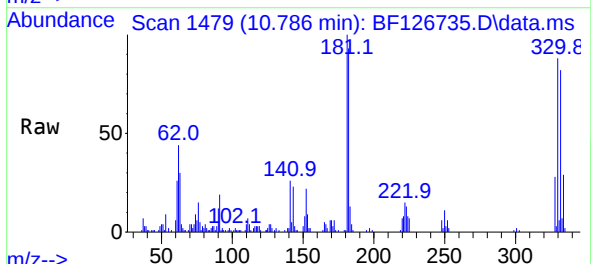
Tgt Ion:164 Resp: 303554
Ion Ratio Lower Upper
164 100
162 98.8 81.4 122.0
160 42.4 36.6 54.8

Manual Integrations
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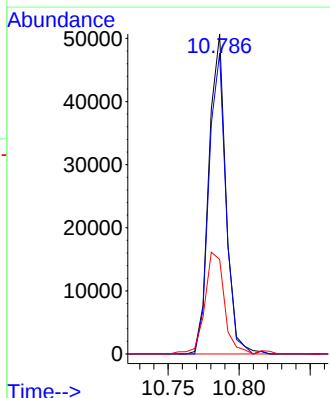
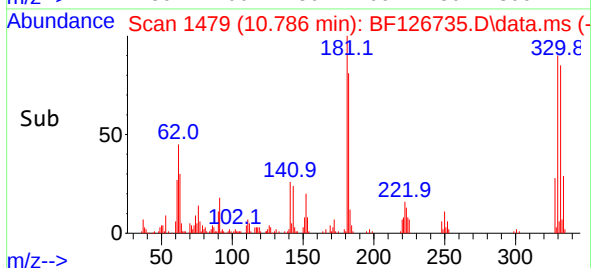
Reviewed By :Christian Giraldo 01/31/2022
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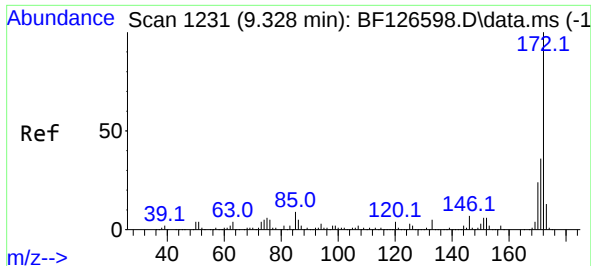


#42
2,4,6-Tribromophenol
Concen: 14.853 ng
RT: 10.786 min Scan# 1479
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



Tgt Ion:330 Resp: 42194
Ion Ratio Lower Upper
330 100
332 93.8 76.0 114.0
141 36.6 30.1 45.1





#45
2-Fluorobiphenyl
Concen: 15.832 ng
RT: 9.310 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

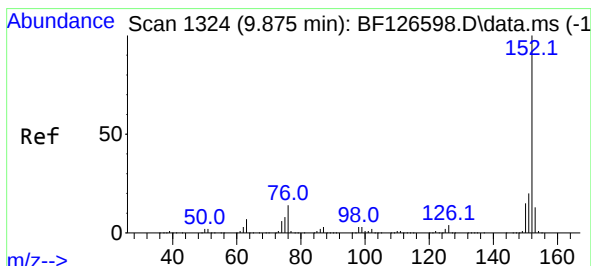
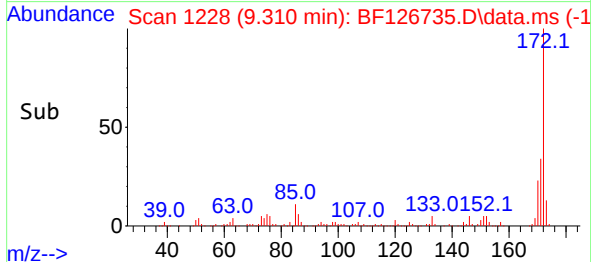
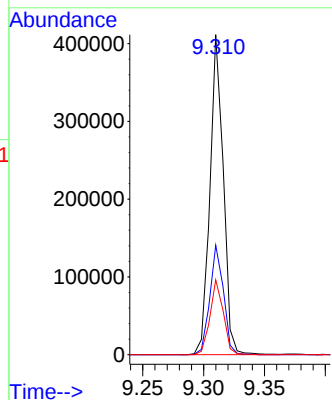
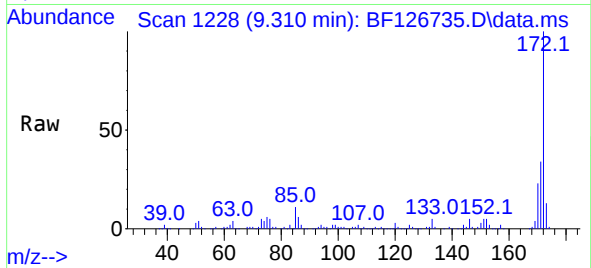
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Tgt Ion:172 Resp: 313798
Ion Ratio Lower Upper
172 100
171 34.2 28.3 42.5
170 23.4 19.0 28.6

Manual Integrations

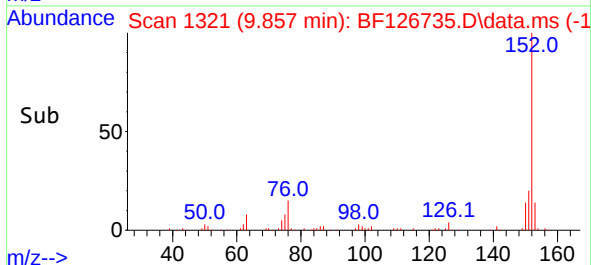
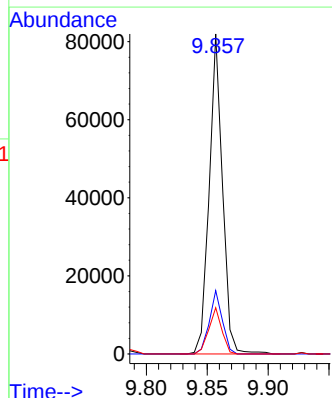
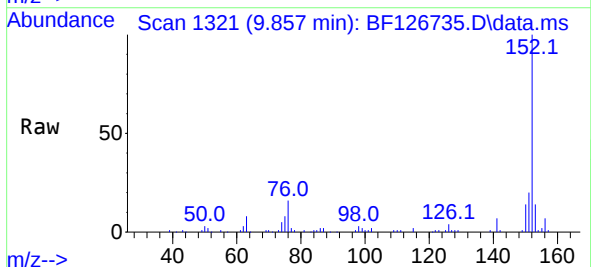
APPROVED

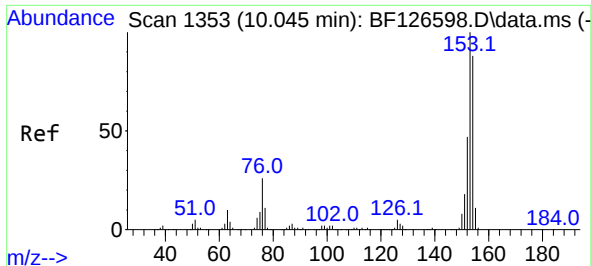
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022



#49
Acenaphthylene
Concen: 2.205 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

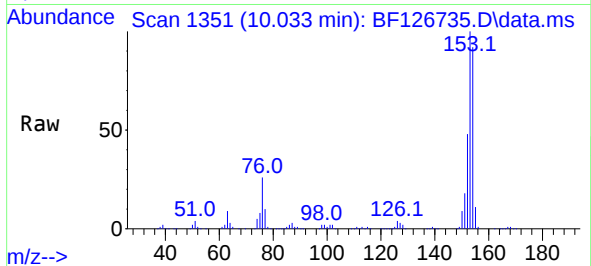
Tgt Ion:152 Resp: 62140
Ion Ratio Lower Upper
152 100
151 19.8 15.7 23.5
153 14.4 11.4 17.0





#52
Acenaphthene
Concen: 26.242 ng
RT: 10.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

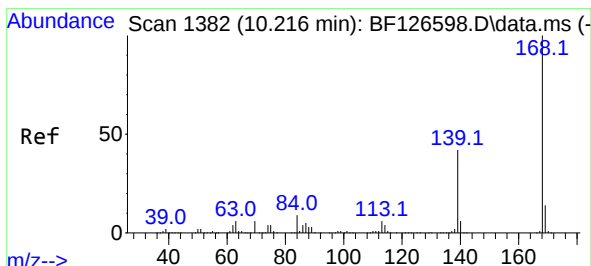
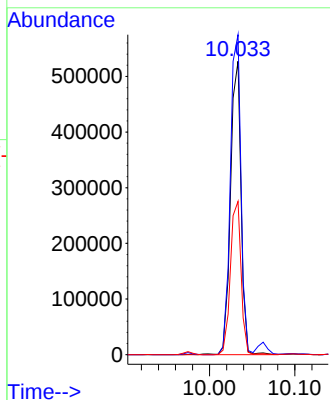
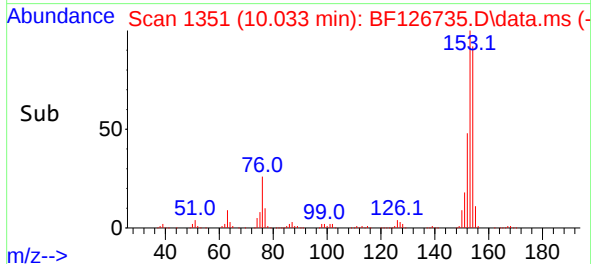
Instrument :
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SOIL-PILE



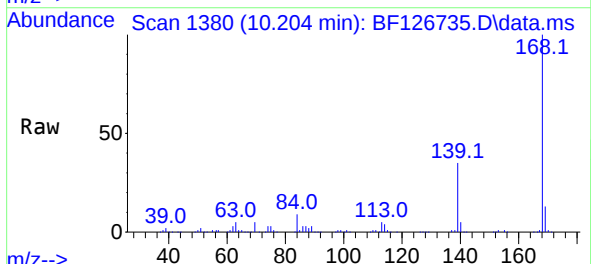
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Ion Ratio Lower Upper
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152 52.2 39.4 59.2

Manual Integrations
APPROVED

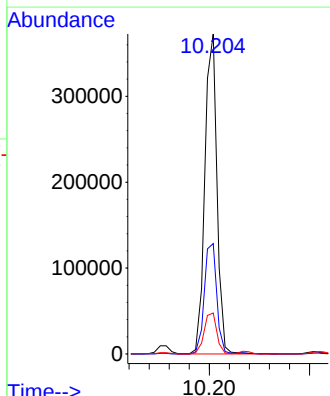
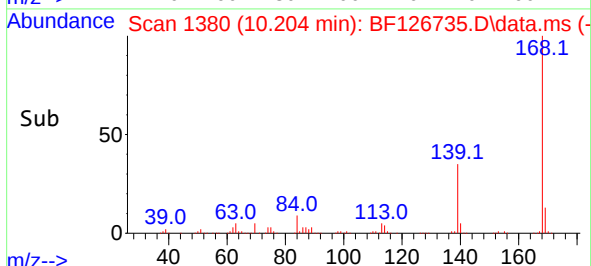
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

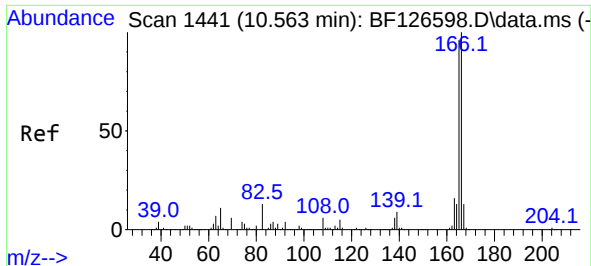


#55
Dibenzofuran
Concen: 12.141 ng
RT: 10.204 min Scan# 1380
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



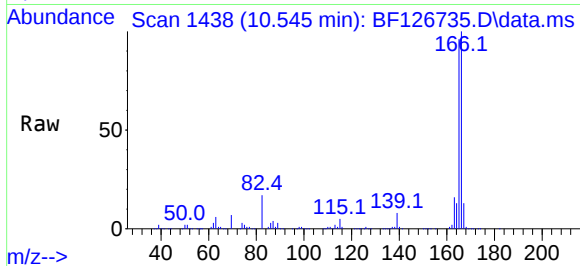
Tgt Ion:168 Resp: 314389
Ion Ratio Lower Upper
168 100
139 34.5 30.6 46.0
169 12.8 10.0 15.0





#58
Fluorene
Concen: 22.210 ng
RT: 10.545 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

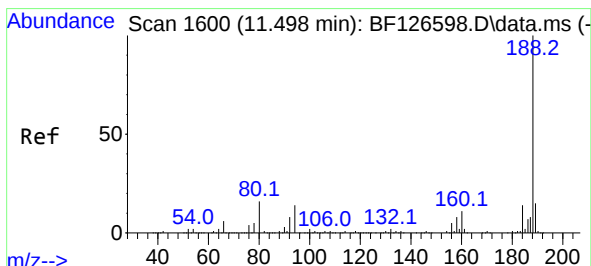
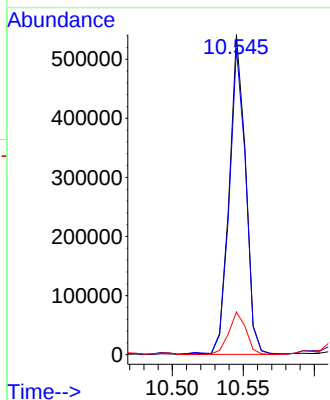
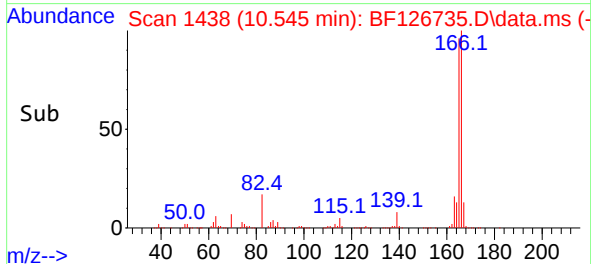
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE



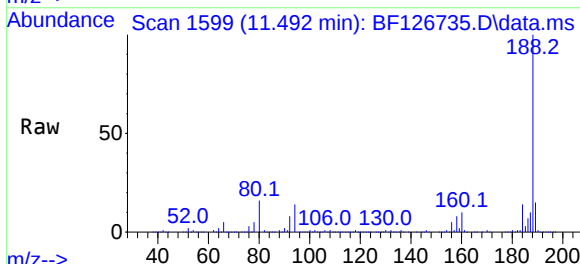
Tgt Ion:166 Resp: 434210
Ion Ratio Lower Upper
166 100
165 95.7 77.7 116.5
167 13.4 10.7 16.1

Manual Integrations
APPROVED

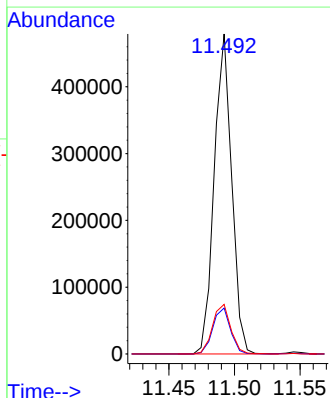
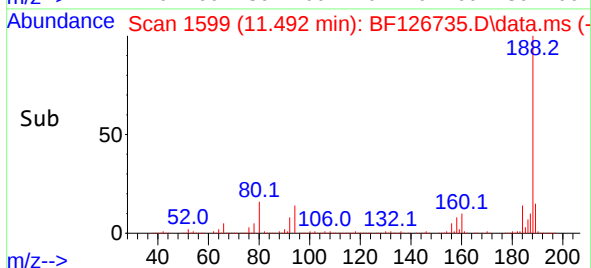
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

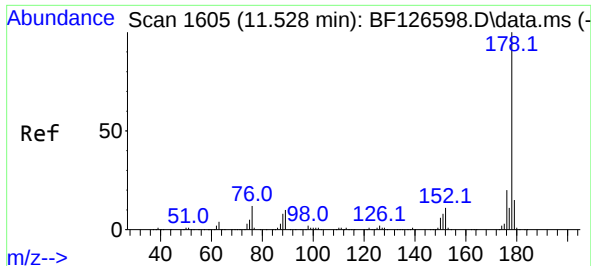


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



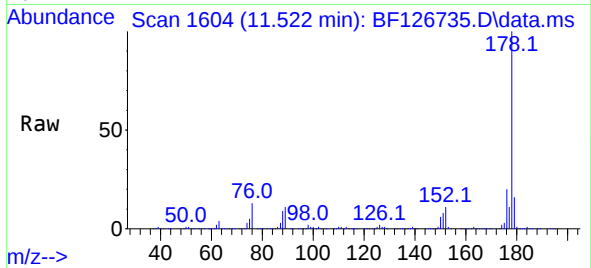
Tgt Ion:188 Resp: 441869
Ion Ratio Lower Upper
188 100
94 14.3 10.1 15.1
80 15.5 11.8 17.6





#71
Phenanthrene
Concen: 79.934 ng
RT: 11.522 min Scan# 1605
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

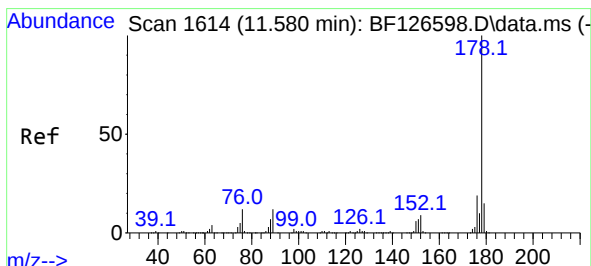
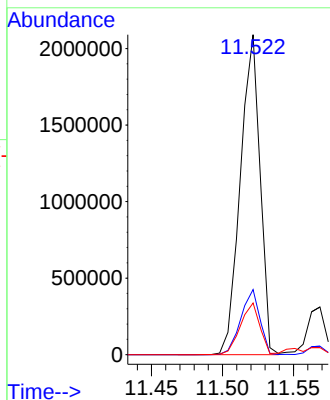
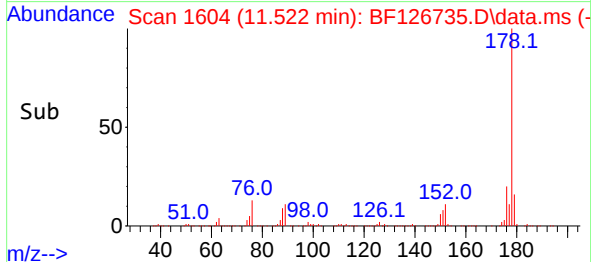
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE



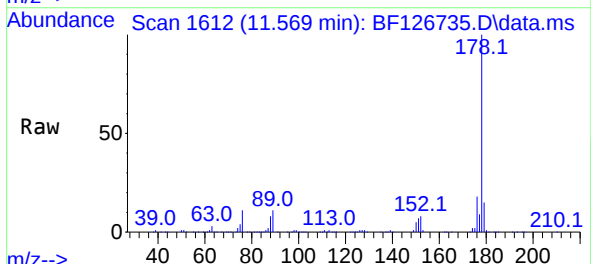
Tgt Ion:178 Resp: 201789
Ion Ratio Lower Upper
178 100
176 20.4 15.7 23.5
179 16.2 12.3 18.5

Manual Integrations
APPROVED

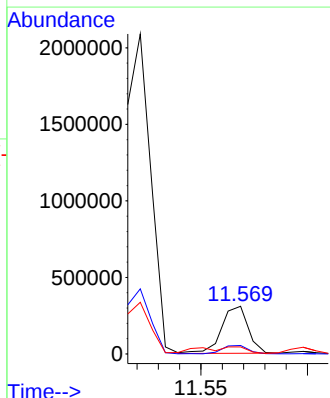
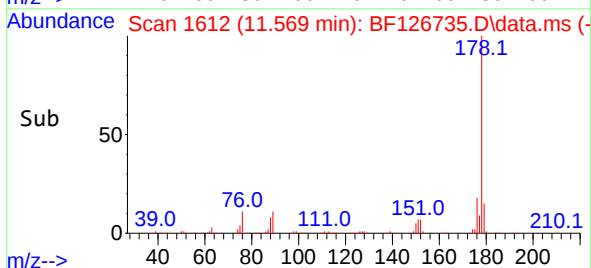
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

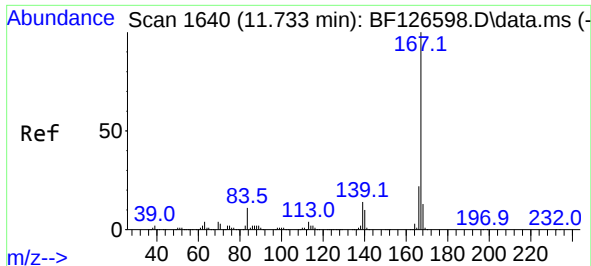


#72
Anthracene
Concen: 10.577 ng
RT: 11.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



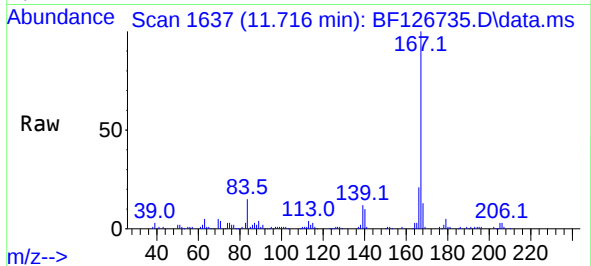
Tgt Ion:178 Resp: 267898
Ion Ratio Lower Upper
178 100
176 17.8 15.0 22.6
179 14.9 12.5 18.7





#73
 Carbazole
 Concen: 4.839 ng
 RT: 11.716 min Scan# 1637
 Delta R.T. -0.006 min
 Lab File: BF126735.D
 Acq: 28 Jan 2022 23:48

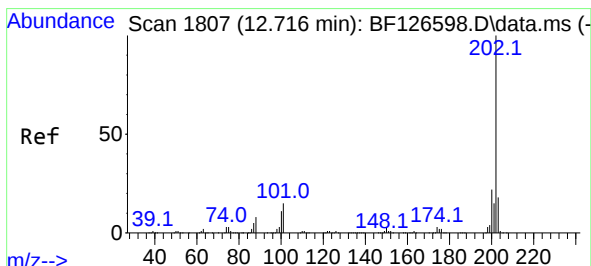
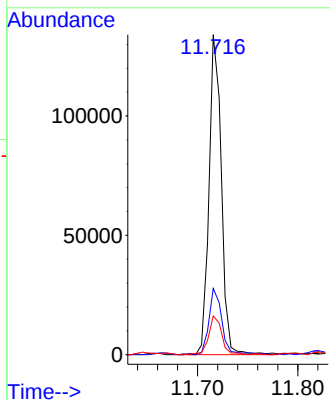
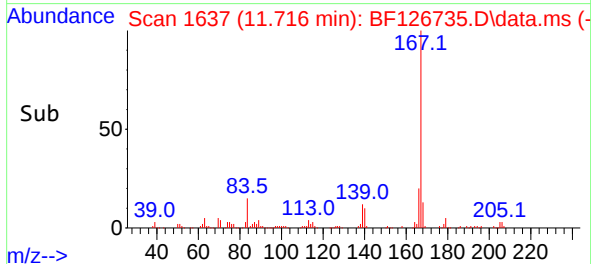
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE



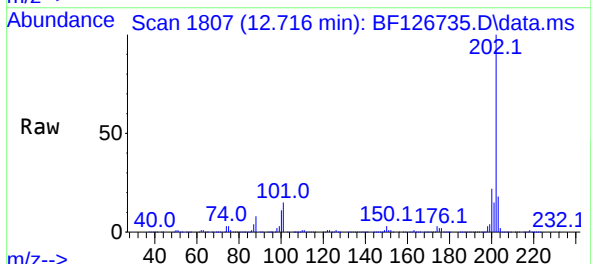
Tgt Ion:167 Resp: 115075
 Ion Ratio Lower Upper
 167 100
 166 20.7 16.9 25.3
 139 12.1 11.3 16.9

Manual Integrations
 APPROVED

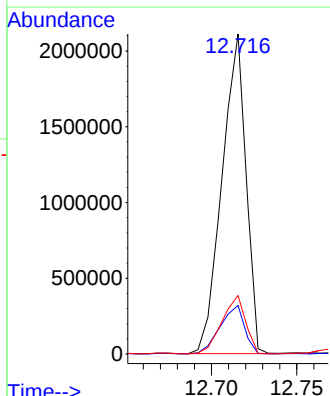
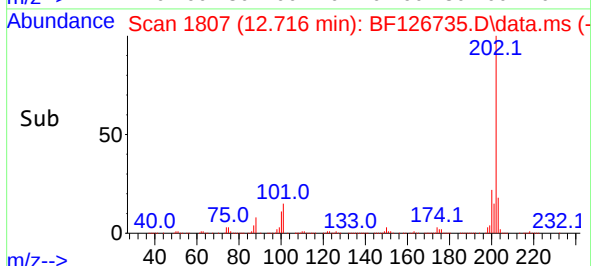
Reviewed By :Christian Giraldo 01/31/2022
 Supervised By :Jagrut Upadhyay 01/31/2022

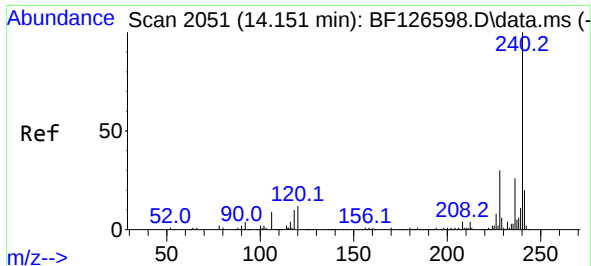


#75
 Fluoranthene
 Concen: 83.093 ng
 RT: 12.716 min Scan# 1807
 Delta R.T. 0.006 min
 Lab File: BF126735.D
 Acq: 28 Jan 2022 23:48



Tgt Ion:202 Resp: 2071901
 Ion Ratio Lower Upper
 202 100
 101 15.2 0.0 35.7
 203 18.3 0.0 37.1





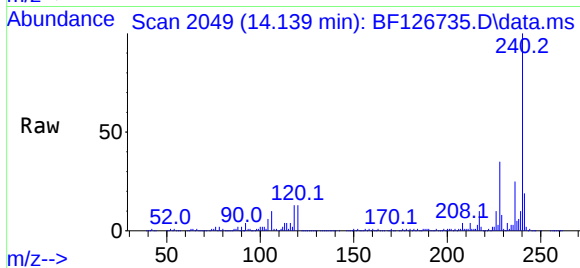
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.139 min Scan# 2049
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

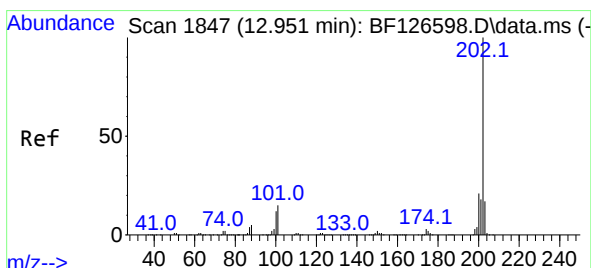
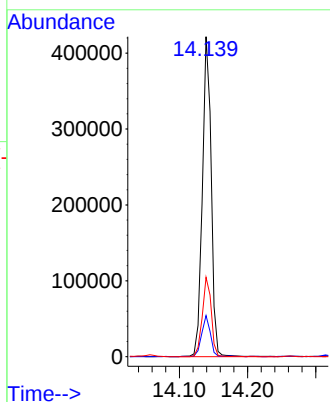
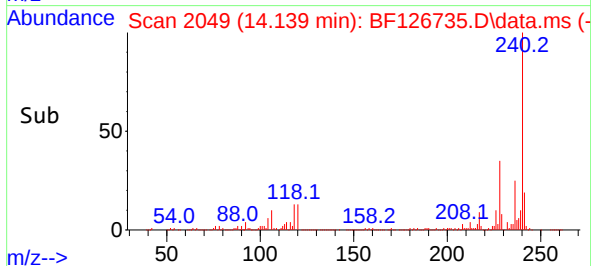


Tgt Ion:240 Resp: 380309
Ion Ratio Lower Upper
240 100
120 12.8 14.4 21.6
236 24.8 20.5 30.7

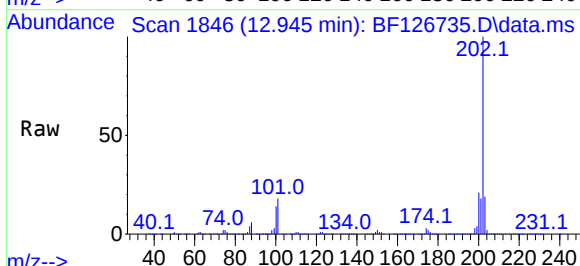
Manual Integrations

APPROVED

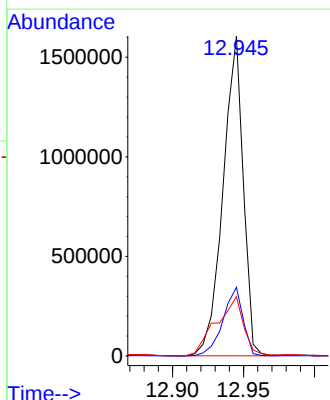
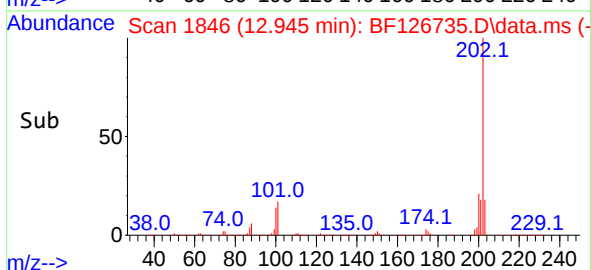
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

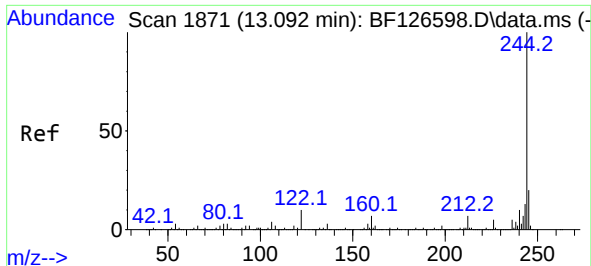


#78
Pyrene
Concen: 51.522 ng
RT: 12.945 min Scan# 1846
Delta R.T. 0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



Tgt Ion:202 Resp: 1584522
Ion Ratio Lower Upper
202 100
200 21.5 16.6 24.8
203 18.5 13.8 20.8





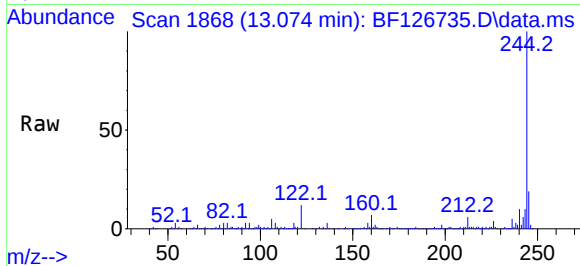
#79
Terphenyl-d14
Concen: 11.700 ng
RT: 13.074 min Scan# 1868
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

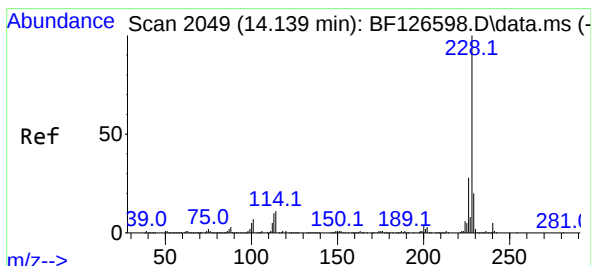
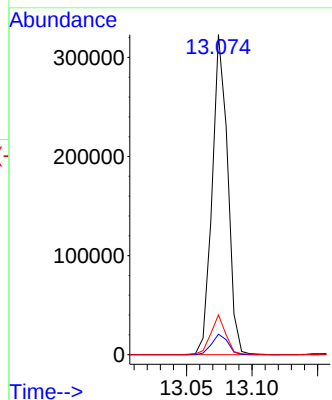
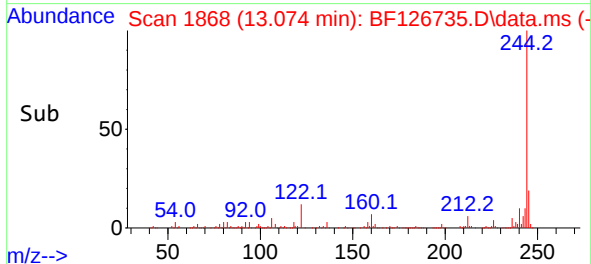


Tgt Ion:244 Resp: 265279
Ion Ratio Lower Upper
244 100
212 6.4 5.0 7.4
122 12.5 13.3 19.9

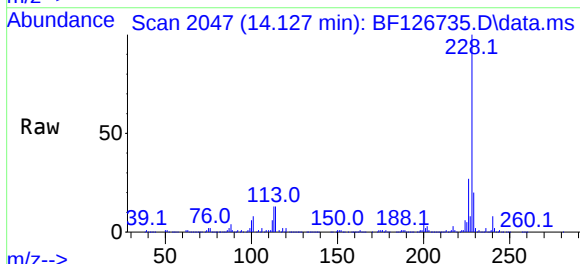
Manual Integrations

APPROVED

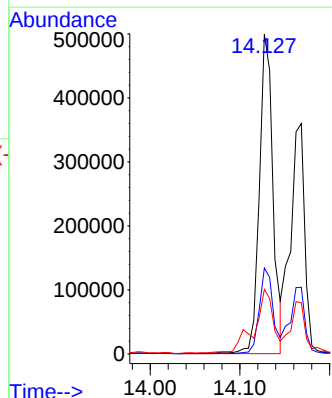
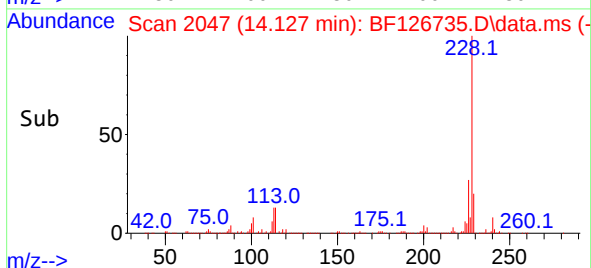
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

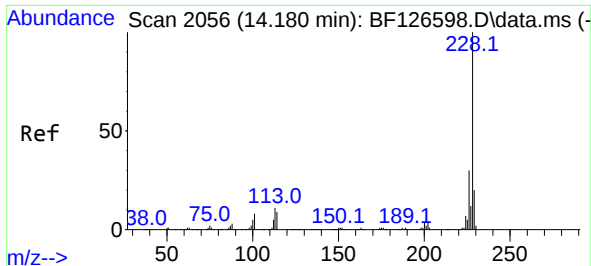


#81
Benzo(a)anthracene
Concen: 20.409 ng
RT: 14.127 min Scan# 2047
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



Tgt Ion:228 Resp: 527549
Ion Ratio Lower Upper
228 100
226 26.8 21.4 32.0
229 20.2 15.4 23.2





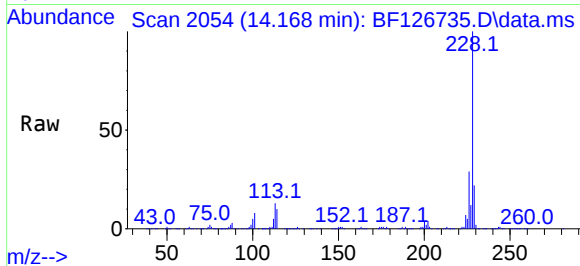
#83
Chrysene
Concen: 16.068 ng
RT: 14.168 min Scan# 2056
Delta R.T. -0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

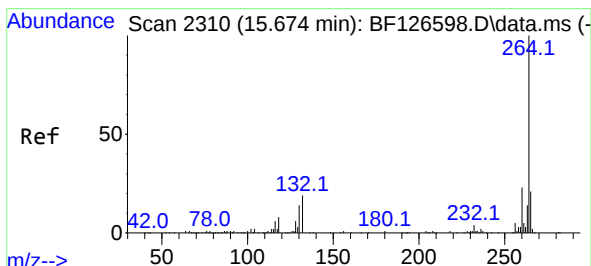
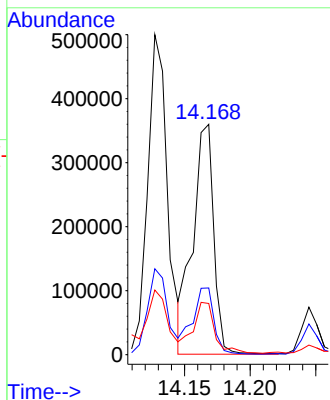
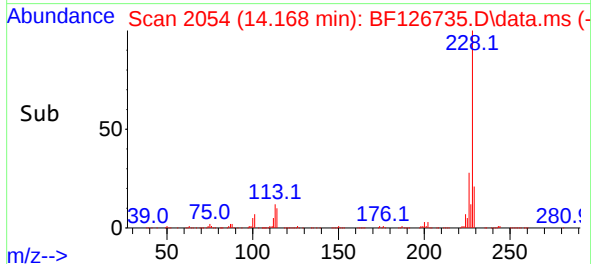


Tgt Ion:228 Resp: 39964
Ion Ratio Lower Upper
228 100
226 29.0 23.7 35.5
229 22.2 15.5 23.3

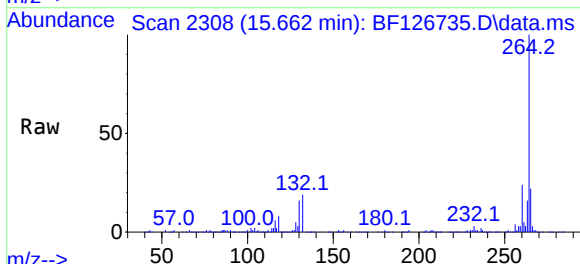
Manual Integrations

APPROVED

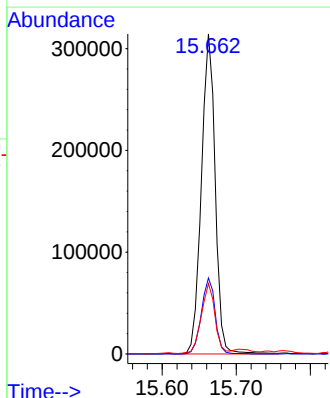
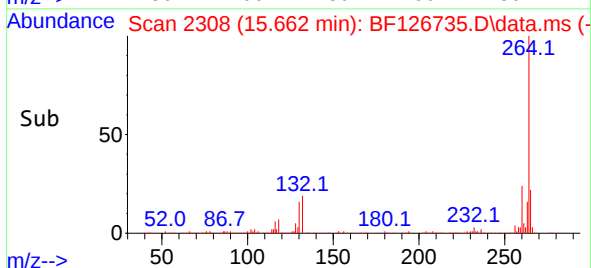
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

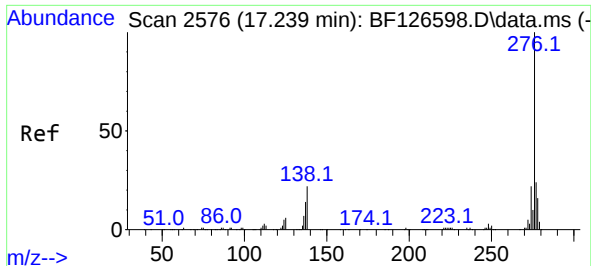


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.662 min Scan# 2308
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48



Tgt Ion:264 Resp: 408733
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 22.0 17.4 26.2





#87
Indeno(1,2,3-cd)pyrene
Concen: 2.340 ng
RT: 17.209 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

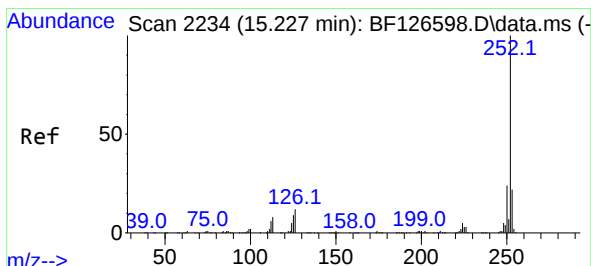
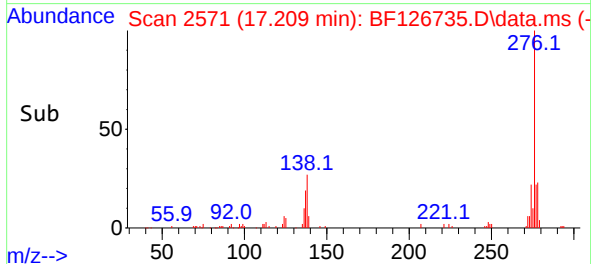
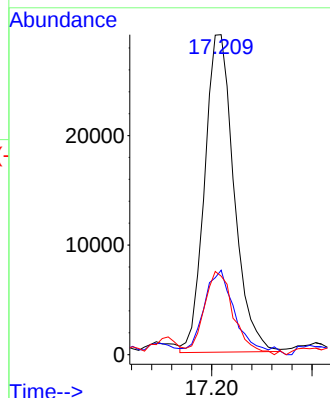
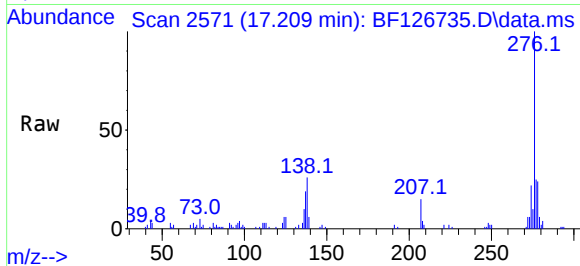
SOIL-PILE

Tgt Ion:276 Resp: 5910
Ion Ratio Lower Upper
276 100
138 28.7 29.2 43.8
277 26.2 19.8 29.8

Manual Integrations

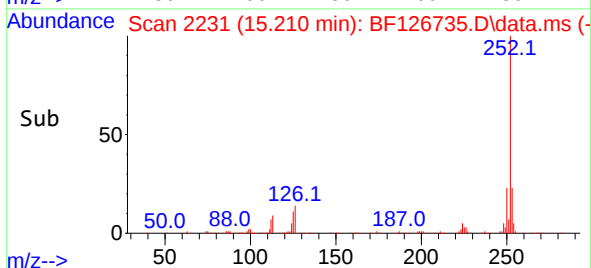
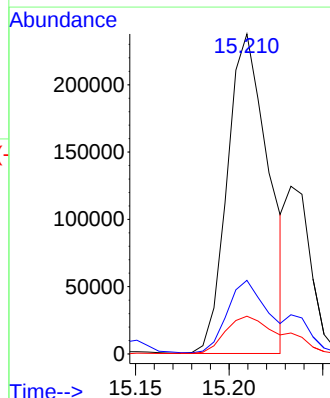
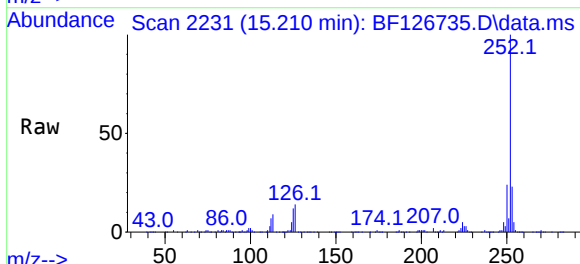
APPROVED

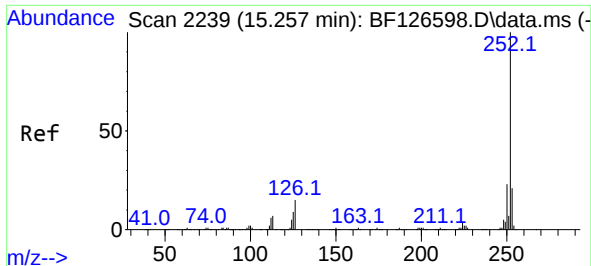
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022



#88
Benzo(b)fluoranthene
Concen: 13.379 ng m
RT: 15.210 min Scan# 2231
Delta R.T. 0.000 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Tgt Ion:252 Resp: 362625
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 11.8 12.4 18.6





#89
Benzo(k)fluoranthene
Concen: 4.249 ng m
RT: 15.233 min Scan# 2110
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :

BNA_F

ClientSampleId :

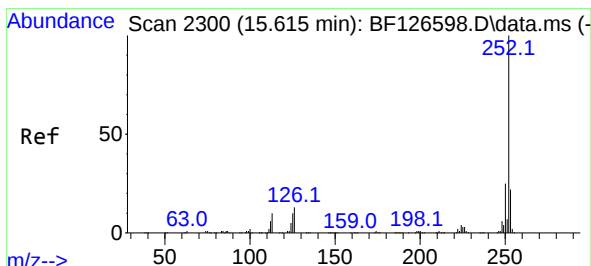
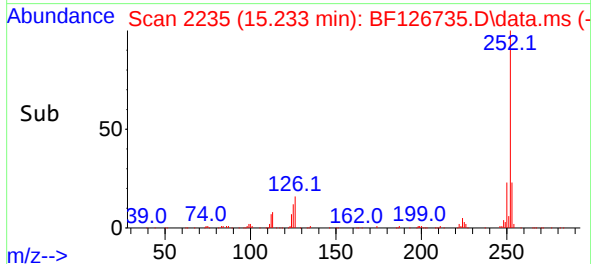
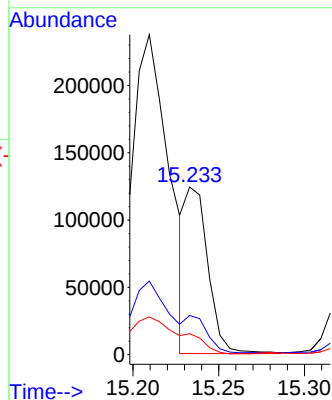
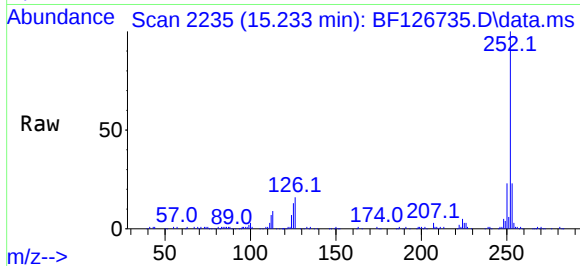
SOIL-PILE

Tgt Ion:252 Resp: 113091
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 12.5 11.8 17.6

Manual Integrations

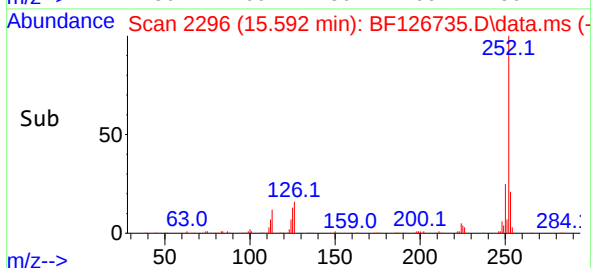
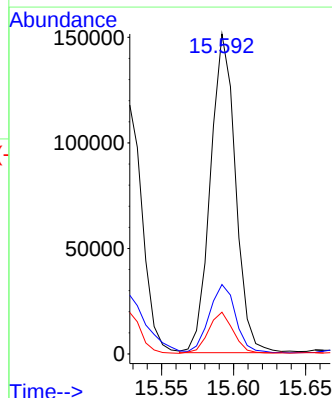
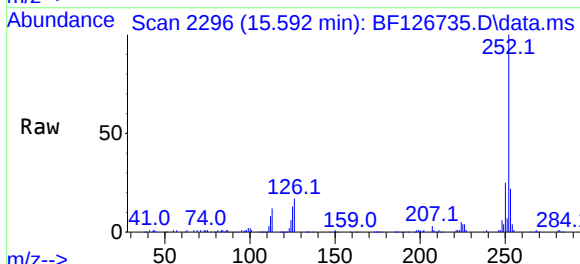
APPROVED

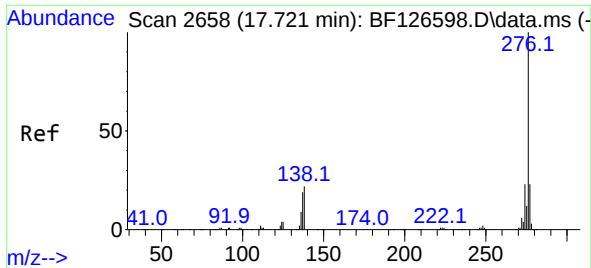
Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022



#90
Benzo(a)pyrene
Concen: 8.295 ng m
RT: 15.592 min Scan# 2296
Delta R.T. -0.006 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

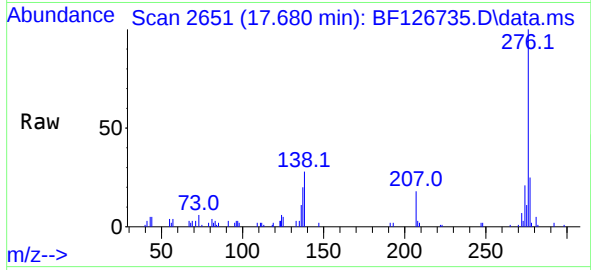
Tgt Ion:252 Resp: 182937
Ion Ratio Lower Upper
252 100
253 21.7 17.1 25.7
125 13.0 13.0 19.6#





#92
Benzo(g,h,i)perylene
Concen: 2.428 ng
RT: 17.680 min Scan# 20
Delta R.T. -0.018 min
Lab File: BF126735.D
Acq: 28 Jan 2022 23:48

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE



Tgt Ion:276 Resp: 49818
Ion Ratio Lower Upper
276 100
277 24.5 18.5 27.7
138 28.1 25.9 38.9

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 01/31/2022
Supervised By :Jagrut Upadhyay 01/31/2022

