

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112322\
 Data File : BF131377.D
 Acq On : 23 Nov 2022 23:48
 Operator : CG\JU
 Sample : N5641-18
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-18

Manual Integrations
 APPROVED

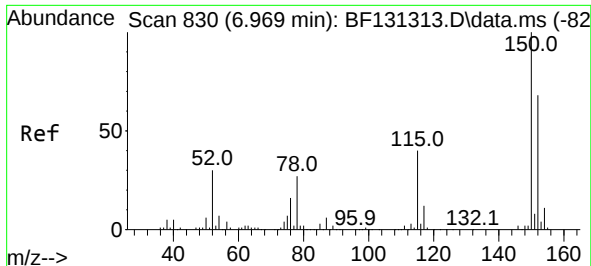
Reviewed By : Christian Giraldo 11/25/2022
 Supervised By : Jagrut Upadhyay 11/25/2022

Quant Time: Nov 24 05:58:58 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 24 05:53:32 2022
 Response via : Initial Calibration

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

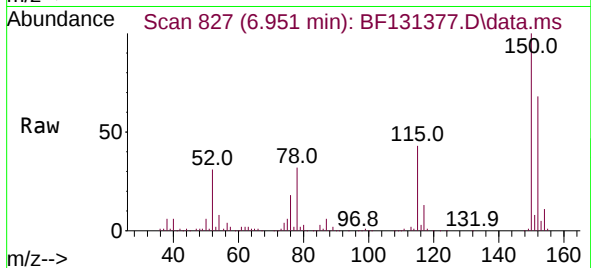
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.951	152	114340	20.000	ng	0.00
21) Naphthalene-d8	8.240	136	388451	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	191027	20.000	ng	0.00
64) Phenanthrene-d10	11.504	188	280371	20.000	ng	0.00
76) Chrysene-d12	14.157	240	212594	20.000	ng	# 0.00
86) Perylene-d12	15.692	264	179373	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.569	112	662381	110.255	ng	0.01
7) Phenol-d6	6.569	99	835166	108.956	ng	0.00
23) Nitrobenzene-d5	7.522	82	541951	70.328	ng	0.00
42) 2,4,6-Tribromophenol	10.798	330	172287	107.202	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	903424	68.803	ng	0.00
79) Terphenyl-d14	13.098	244	727528	55.961	ng	0.00
Target Compounds						
						Qvalue
71) Phenanthrene	11.528	178	288639	19.049	ng	98
72) Anthracene	11.575	178	70582	4.740	ng	98
73) Carbazole	11.728	167	58506	4.606	ng	100
75) Fluoranthene	12.722	202	437646	27.410	ng	99
78) Pyrene	12.957	202	367427	19.589	ng	99
81) Benzo(a)anthracene	14.151	228	235715	16.176	ng	98
83) Chrysene	14.186	228	212141	14.838	ng	98
87) Indeno(1,2,3-cd)pyrene	17.251	276	59834	4.967	ng	98
88) Benzo(b)fluoranthene	15.239	252	213956m	17.955	ng	
89) Benzo(k)fluoranthene	15.263	252	68290m	5.577	ng	
90) Benzo(a)pyrene	15.627	252	143097	14.635	ng	99
92) Benzo(g,h,i)perylene	17.727	276	50636	5.101	ng	98

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.951 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

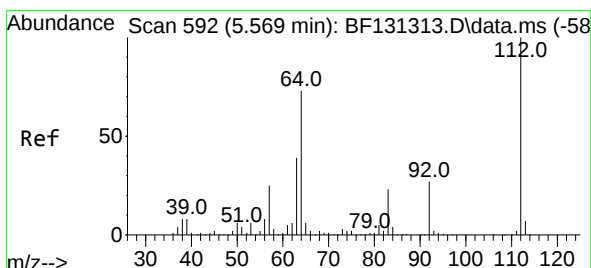
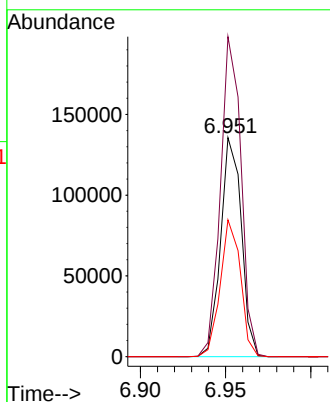
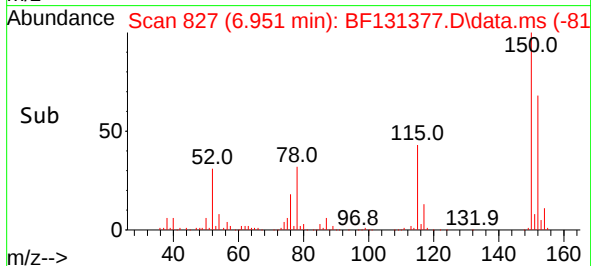
Instrument :
BNA_F
ClientSampleId :
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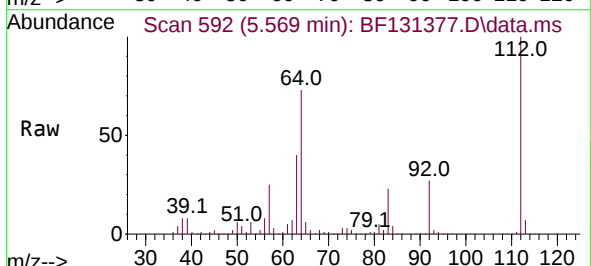
Tgt Ion:152 Resp: 114340
Ion Ratio Lower Upper
152 100
150 146.2 117.8 176.8
115 62.4 47.1 70.7

Manual Integrations
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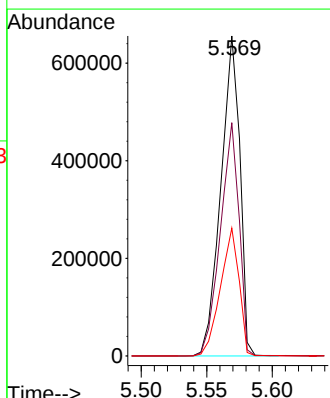
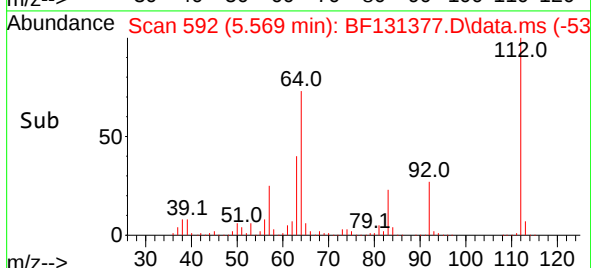
Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022

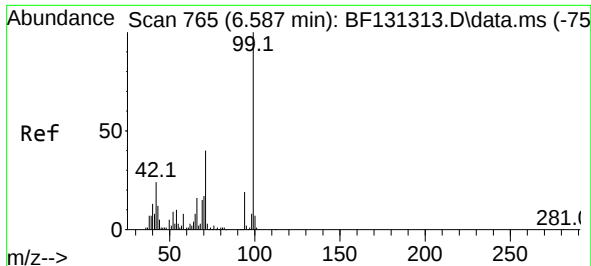


#5
2-Fluorophenol
Concen: 110.255 ng
RT: 5.569 min Scan# 592
Delta R.T. 0.012 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48



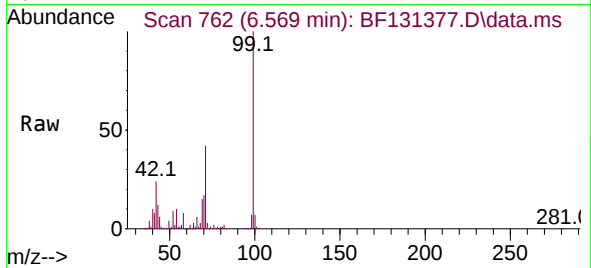
Tgt Ion:112 Resp: 662381
Ion Ratio Lower Upper
112 100
64 72.9 58.6 88.0
63 39.9 31.4 47.0





#7
Phenol-d6
Concen: 108.956 ng
RT: 6.569 min Scan# 70
Delta R.T. -0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

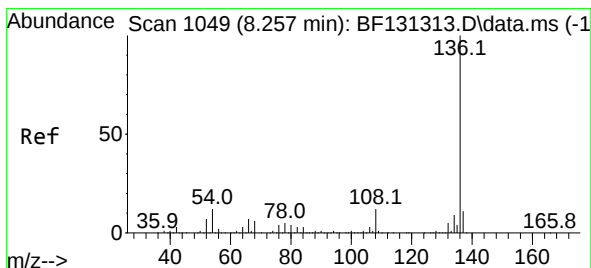
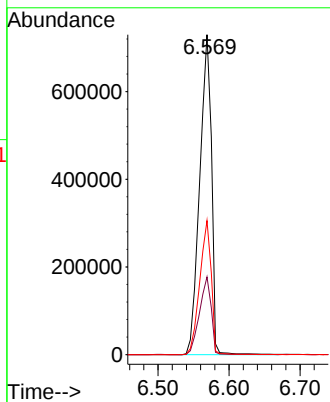
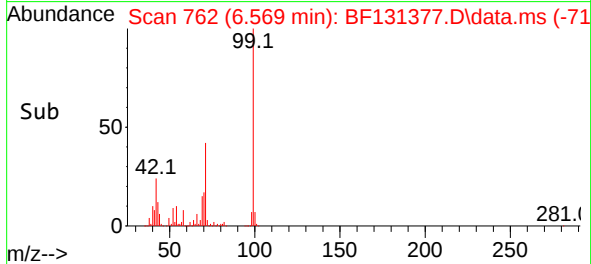
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-18



Tgt Ion: 99 Resp: 835166
Ion Ratio Lower Upper
99 100
42 24.3 19.4 29.2
71 41.9 32.3 48.5

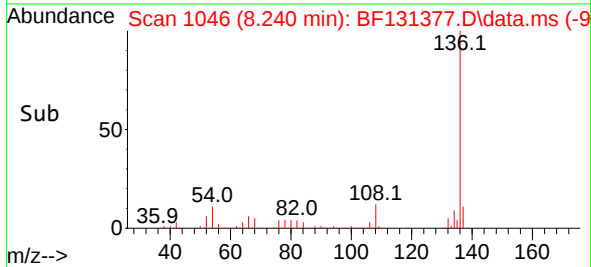
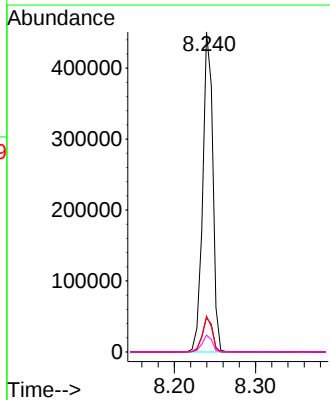
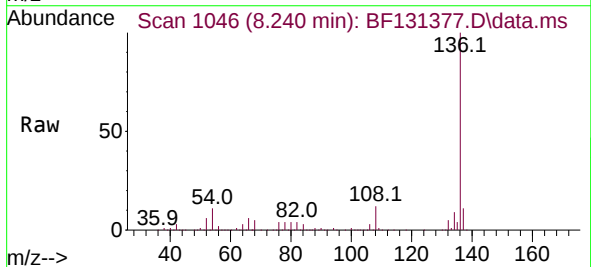
Manual Integrations
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Reviewed By :Christian Giraldo 11/25/2022
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.240 min Scan# 1046
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Tgt Ion:136 Resp: 388451
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.6
54 11.2 9.4 14.0
68 5.2 4.5 6.7





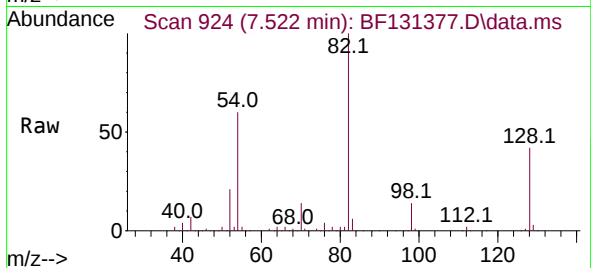
#23
Nitrobenzene-d5
Concen: 70.328 ng
RT: 7.522 min Scan# 91
Delta R.T. -0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-18

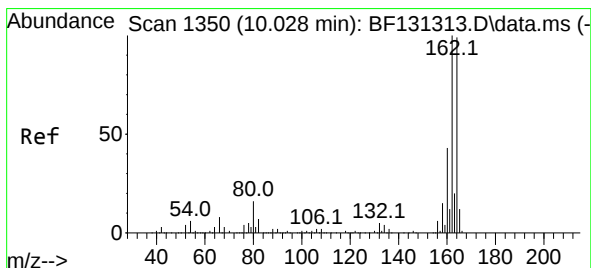
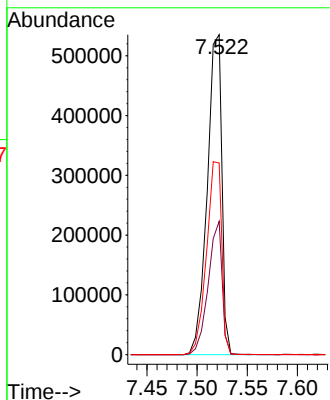
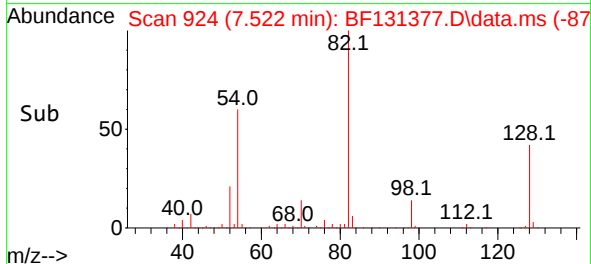


Tgt Ion: 82 Resp: 54195
Ion Ratio Lower Upper
82 100
128 41.6 31.4 47.0
54 59.9 49.8 74.6

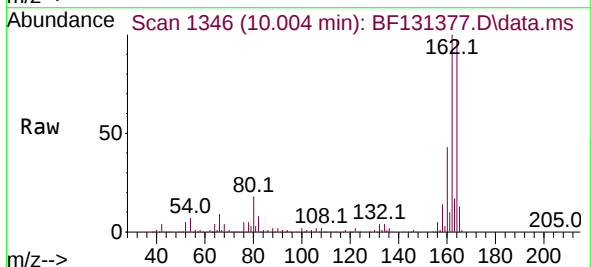
Manual Integrations

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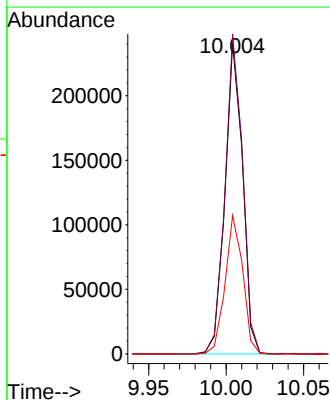
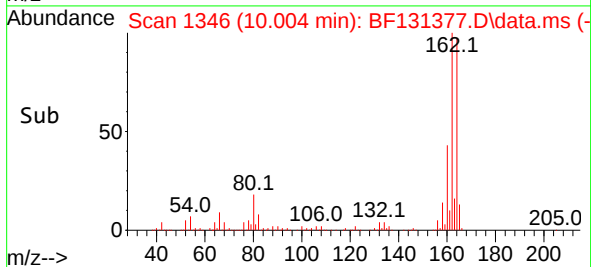
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48



Tgt Ion:164 Resp: 191027
Ion Ratio Lower Upper
164 100
162 103.1 80.6 120.8
160 44.6 34.4 51.6





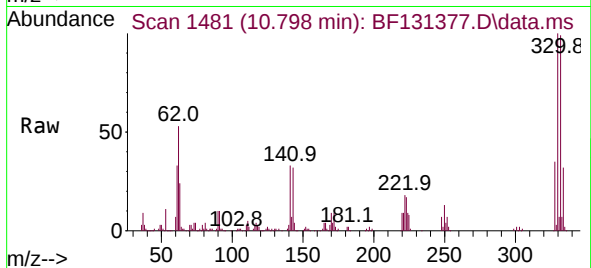
#42
2,4,6-Tribromophenol
Concen: 107.202 ng
RT: 10.798 min Scan# 1481
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-18

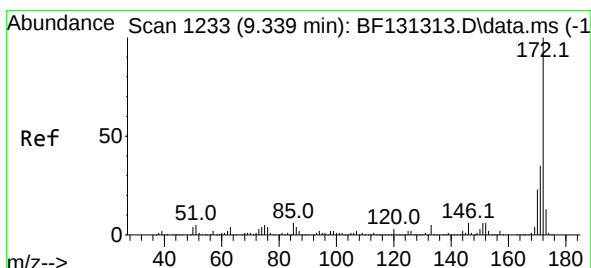
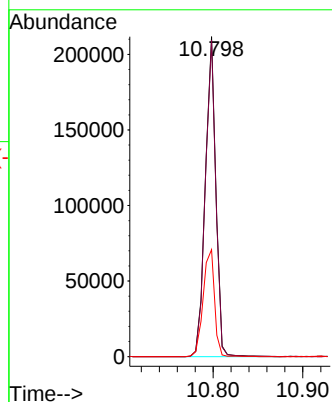
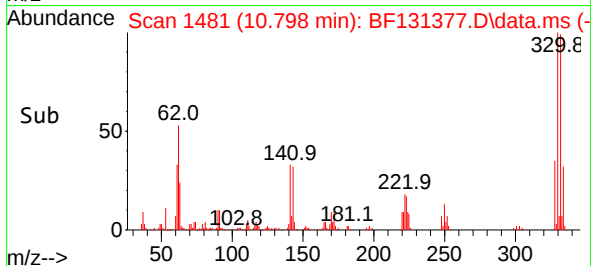


Tgt Ion: 330 Resp: 172287
Ion Ratio Lower Upper
330 100
332 98.5 77.5 116.3
141 36.2 29.3 43.9

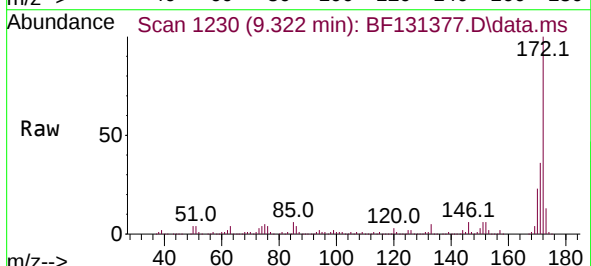
Manual Integrations

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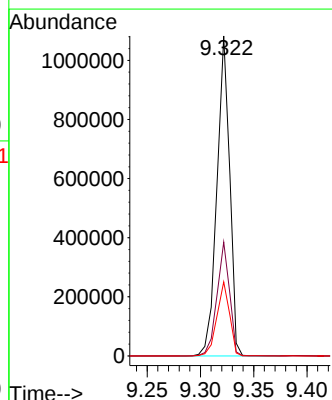
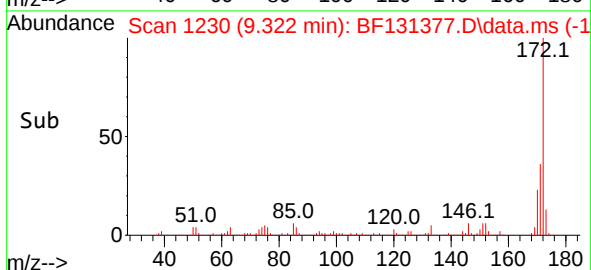
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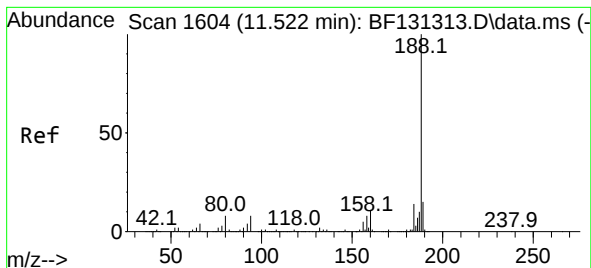


#45
2-Fluorobiphenyl
Concen: 68.803 ng
RT: 9.322 min Scan# 1230
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48



Tgt Ion: 172 Resp: 903424
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.2
170 23.1 18.7 28.1





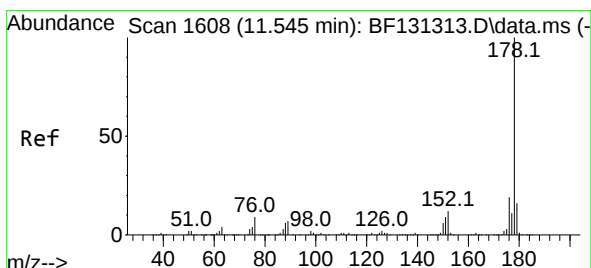
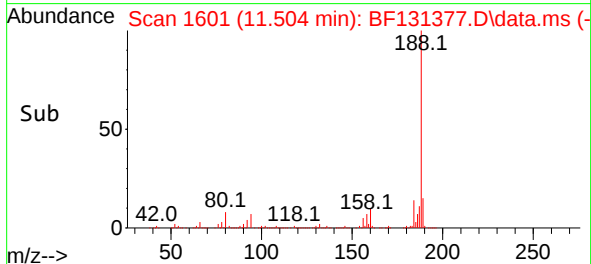
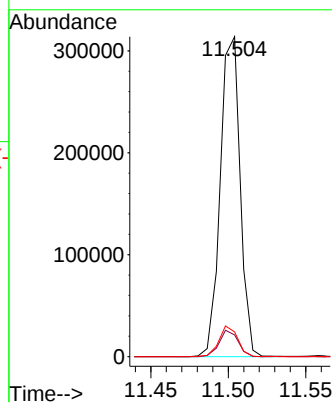
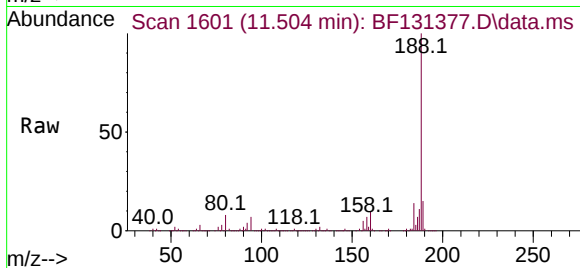
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.504 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-18

Tgt Ion:188 Resp: 28037
Ion Ratio Lower Upper
188 100
94 6.8 6.3 9.5
80 7.7 6.8 10.2

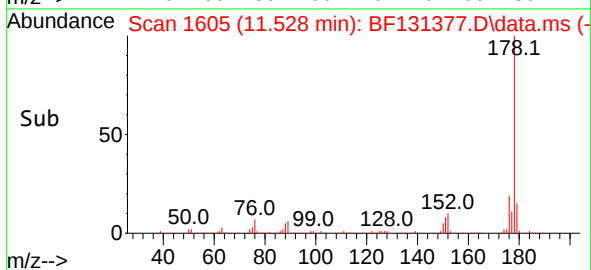
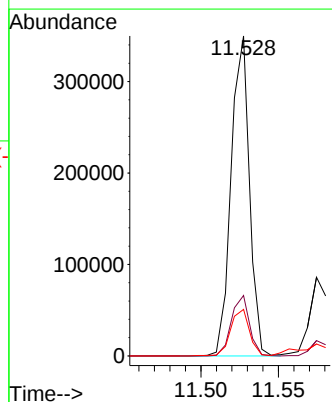
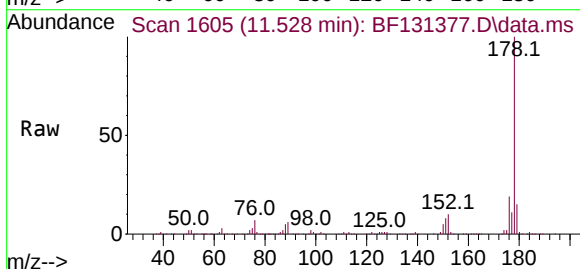
Manual Integrations
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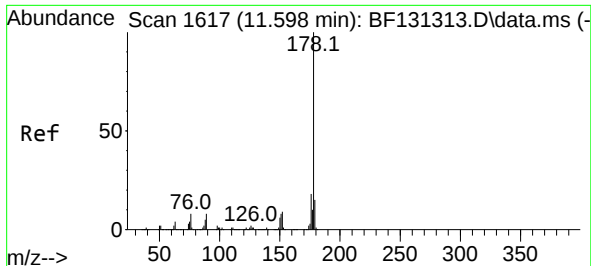
Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022



#71
Phenanthrene
Concen: 19.049 ng
RT: 11.528 min Scan# 1605
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Tgt Ion:178 Resp: 288639
Ion Ratio Lower Upper
178 100
176 18.9 15.6 23.4
179 14.5 12.4 18.6





#72
 Anthracene
 Concen: 4.740 ng
 RT: 11.575 min Scan# 1613
 Delta R.T. -0.006 min
 Lab File: BF131377.D
 Acq: 23 Nov 2022 23:48

Instrument :

BNA_F

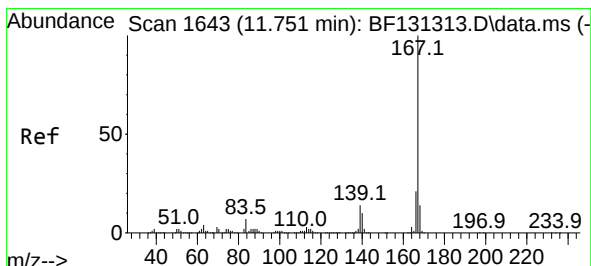
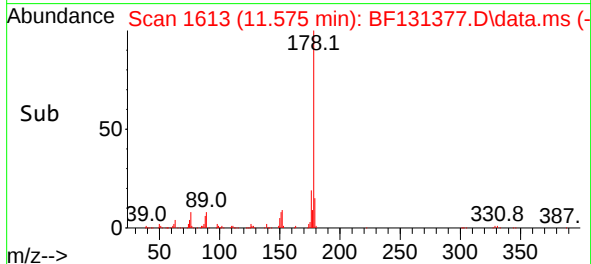
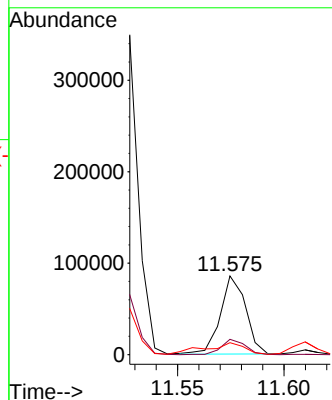
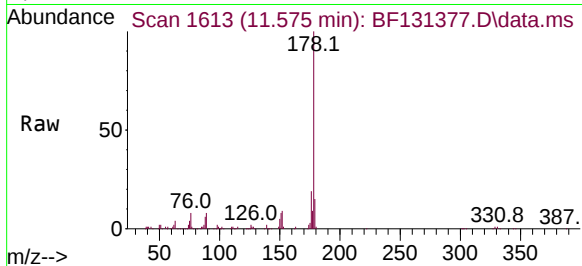
ClientSampleId :

SOIL-PILE-18

Tgt Ion:178 Resp: 70582
 Ion Ratio Lower Upper
 178 100
 176 19.5 14.7 22.1
 179 15.1 12.2 18.4

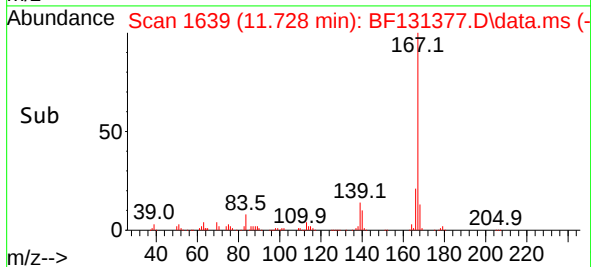
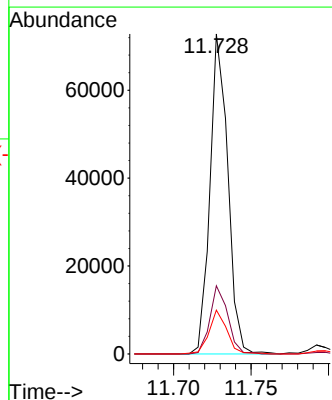
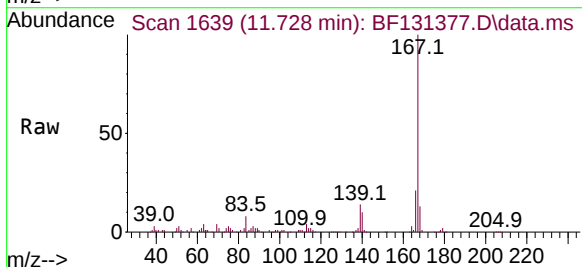
Manual Integrations
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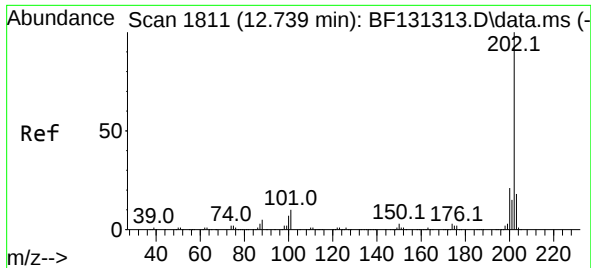
Reviewed By :Christian Giraldo 11/25/2022
 Supervised By :Jagrut Upadhyay 11/25/2022



#73
 Carbazole
 Concen: 4.606 ng
 RT: 11.728 min Scan# 1639
 Delta R.T. -0.006 min
 Lab File: BF131377.D
 Acq: 23 Nov 2022 23:48

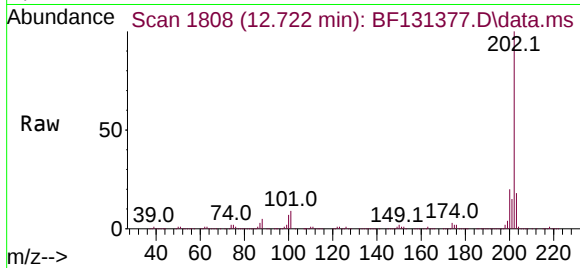
Tgt Ion:167 Resp: 58506
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.0 25.6
 139 13.7 10.8 16.2





#75
Fluoranthene
Concen: 27.410 ng
RT: 12.722 min Scan# 1811
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

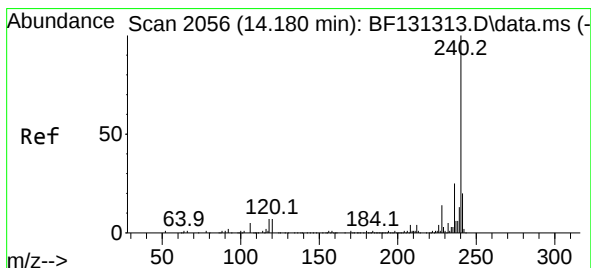
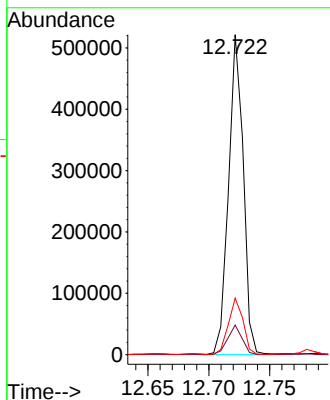
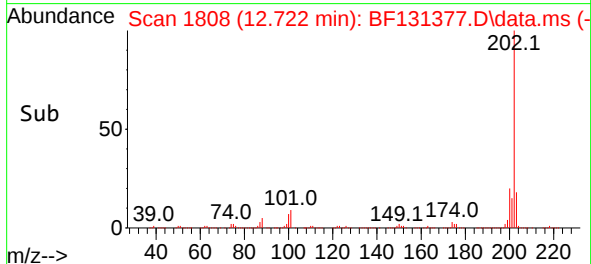
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-18



Tgt Ion:202 Resp: 437646
Ion Ratio Lower Upper
202 100
101 9.2 0.0 29.6
203 17.6 0.0 37.8

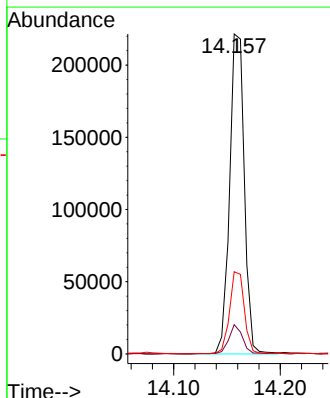
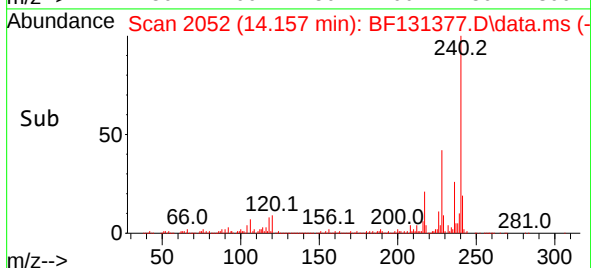
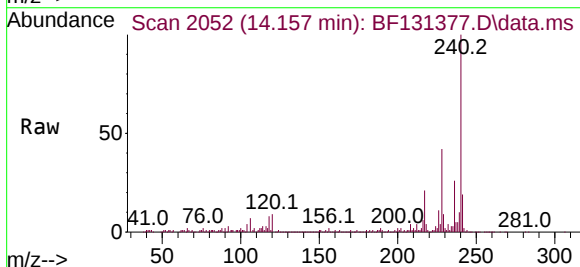
Manual Integrations
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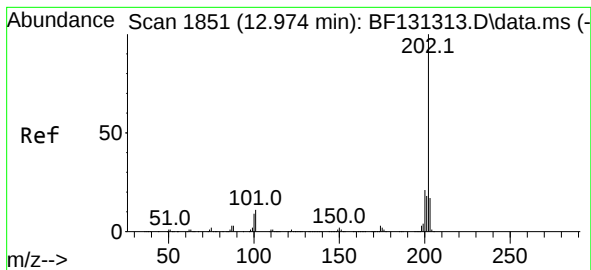
Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.157 min Scan# 2052
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Tgt Ion:240 Resp: 212594
Ion Ratio Lower Upper
240 100
120 9.1 5.8 8.8#
236 25.7 20.3 30.5





#78

Pyrene

Concen: 19.589 ng

RT: 12.957 min Scan# 1848

Delta R.T. 0.000 min

Lab File: BF131377.D

Acq: 23 Nov 2022 23:48

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-18

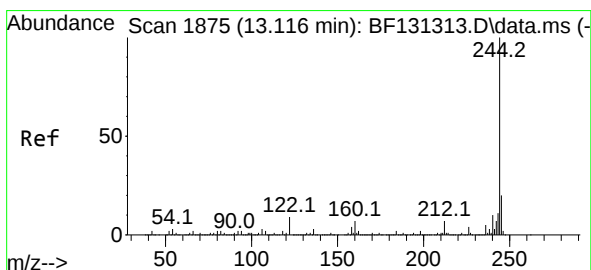
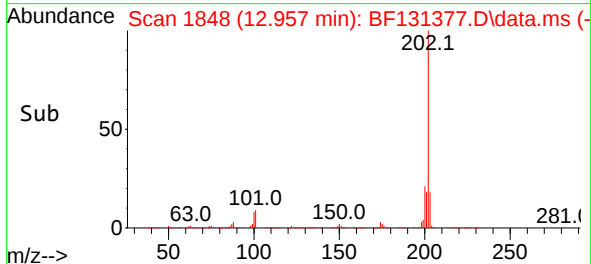
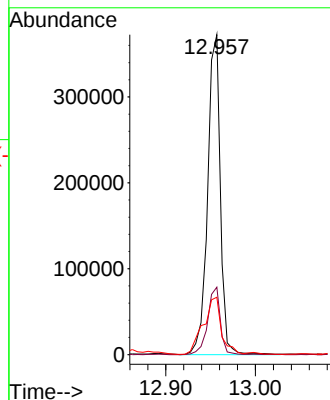
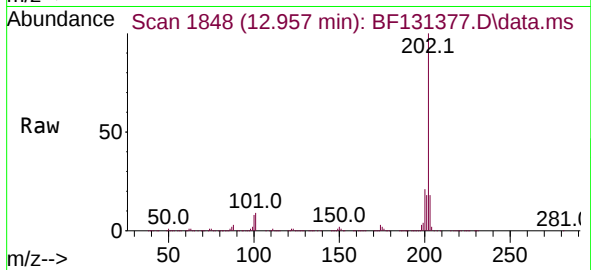
Tgt Ion:202 Resp: 36742

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	18.0	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022



#79

Terphenyl-d14

Concen: 55.961 ng

RT: 13.098 min Scan# 1872

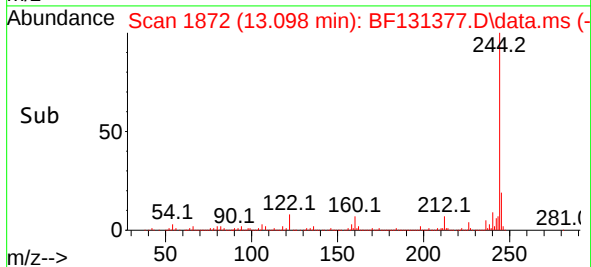
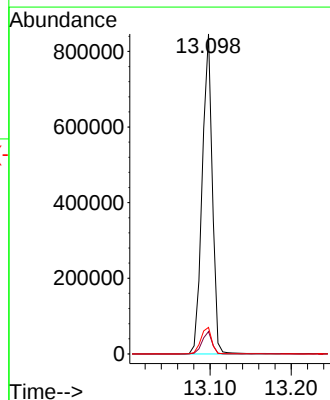
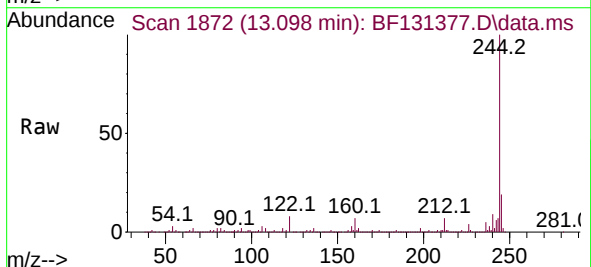
Delta R.T. 0.000 min

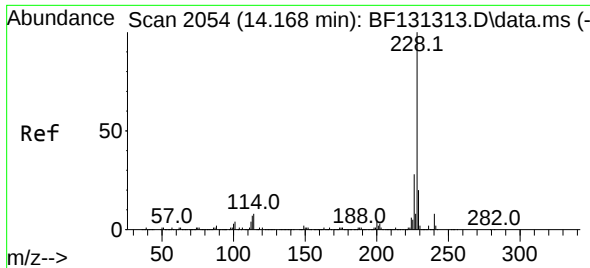
Lab File: BF131377.D

Acq: 23 Nov 2022 23:48

Tgt Ion:244 Resp: 727528

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	8.3	7.5	11.3





#81
Benzo(a)anthracene
Concen: 16.176 ng
RT: 14.151 min Scan# 2051
Delta R.T. 0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Instrument :

BNA_F

ClientSampleId :

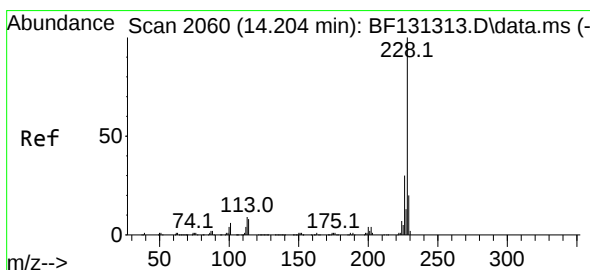
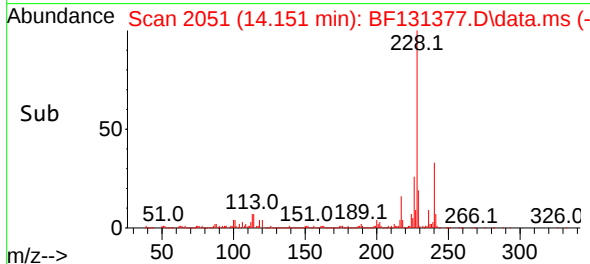
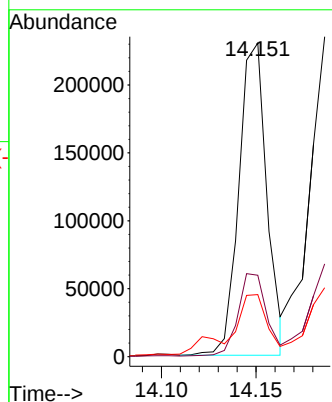
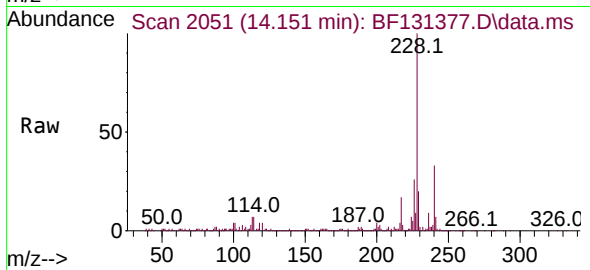
SOIL-PILE-18

Tgt Ion:228 Resp: 235715
Ion Ratio Lower Upper
228 100
226 26.0 22.0 33.0
229 19.8 15.7 23.5

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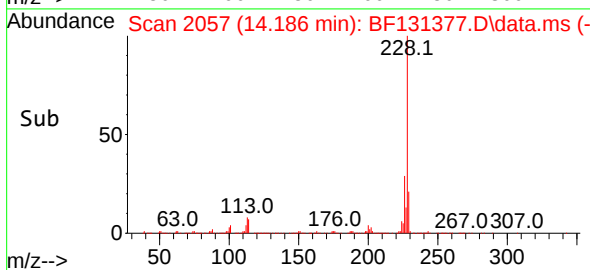
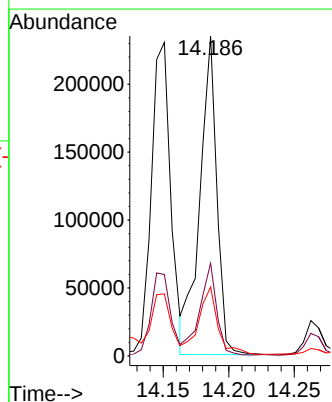
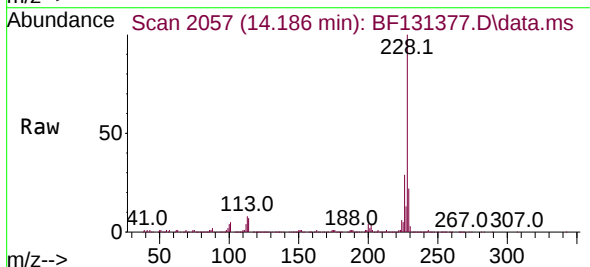
APPROVED

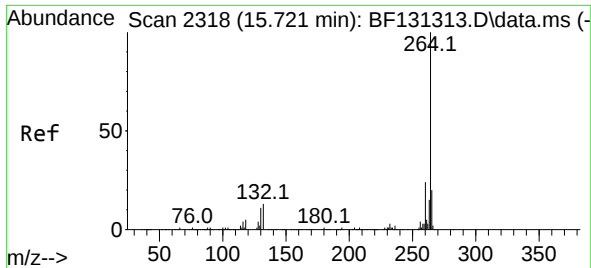
Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022



#83
Chrysene
Concen: 14.838 ng
RT: 14.186 min Scan# 2057
Delta R.T. -0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Tgt Ion:228 Resp: 212141
Ion Ratio Lower Upper
228 100
226 29.0 23.7 35.5
229 21.5 16.2 24.4





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.692 min Scan# 2318
 Delta R.T. 0.000 min
 Lab File: BF131377.D
 Acq: 23 Nov 2022 23:48

Instrument :

BNA_F

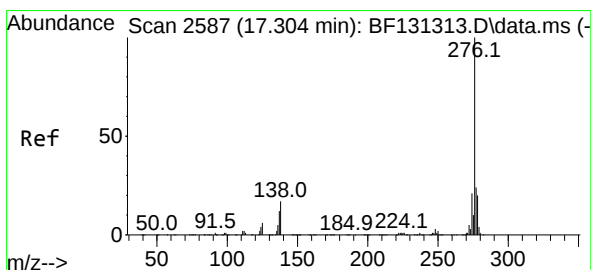
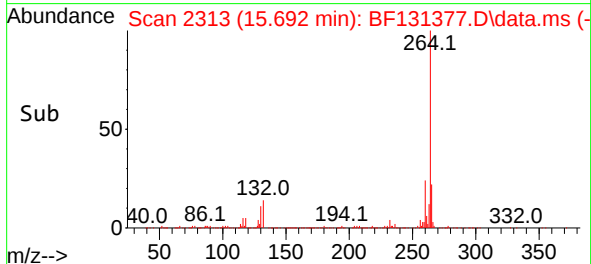
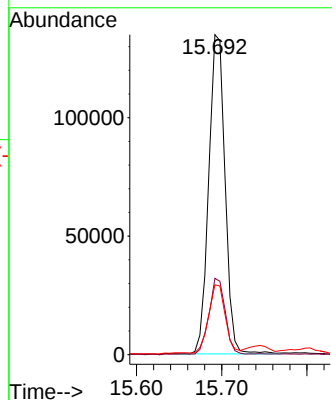
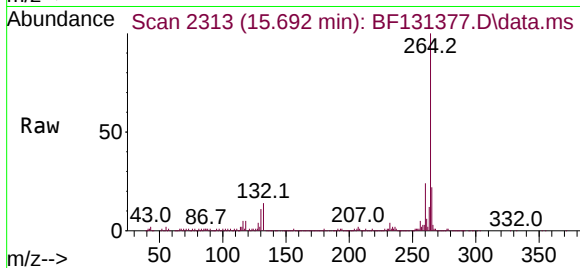
ClientSampleId :

SOIL-PILE-18

Tgt Ion:264 Resp: 179373
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.0 28.4
 265 21.8 16.4 24.6

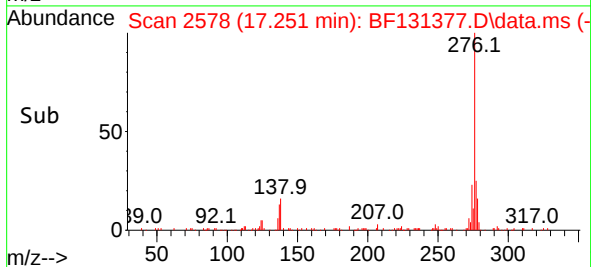
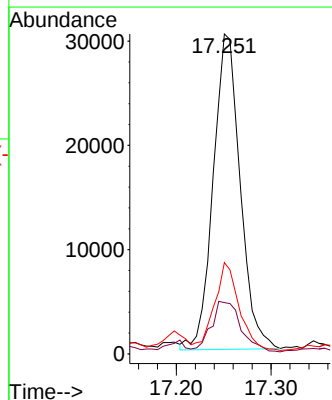
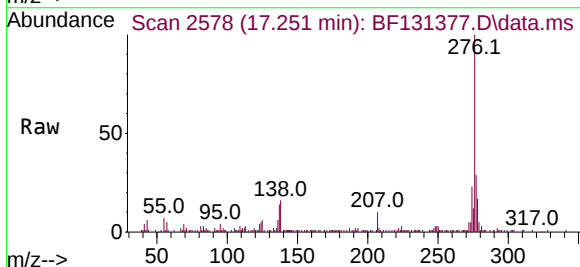
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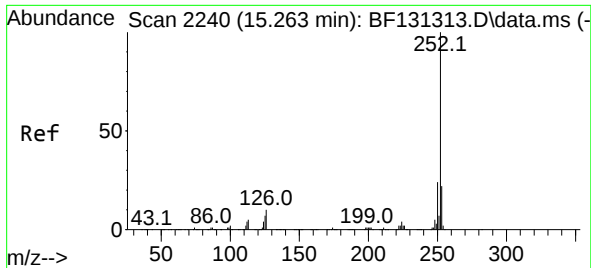
Reviewed By :Christian Giraldo 11/25/2022
 Supervised By :Jagrut Upadhyay 11/25/2022



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 4.967 ng
 RT: 17.251 min Scan# 2578
 Delta R.T. -0.012 min
 Lab File: BF131377.D
 Acq: 23 Nov 2022 23:48

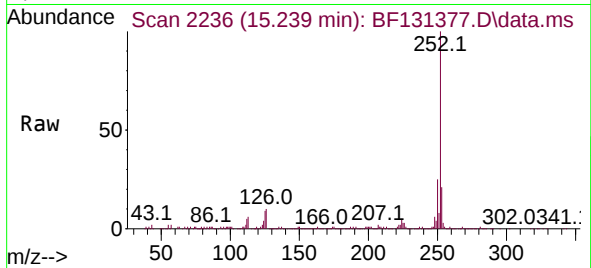
Tgt Ion:276 Resp: 59834
 Ion Ratio Lower Upper
 276 100
 138 17.6 15.8 23.6
 277 25.7 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 17.955 ng m
RT: 15.239 min Scan# 2236
Delta R.T. 0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

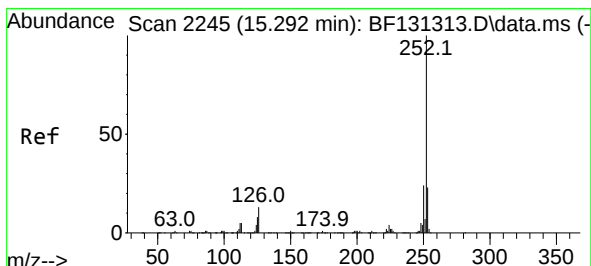
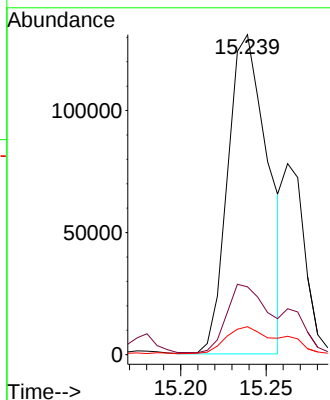
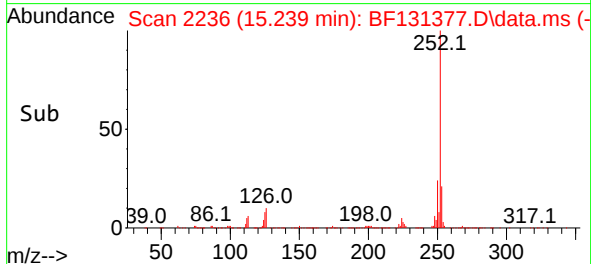
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-18



Tgt Ion:252 Resp: 213956
Ion Ratio Lower Upper
252 100
253 21.2 17.5 26.3
125 8.7 5.8 8.6

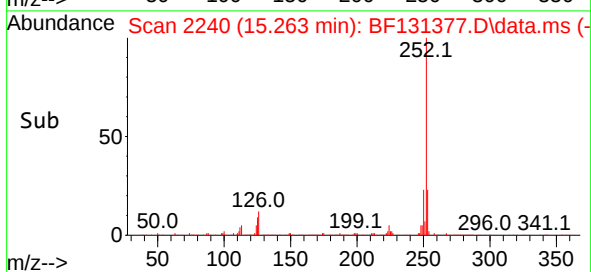
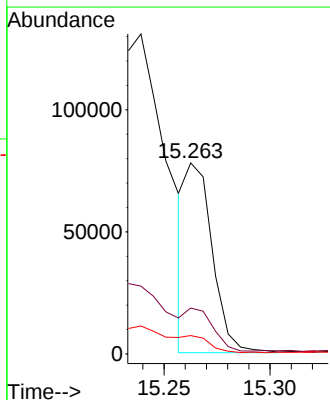
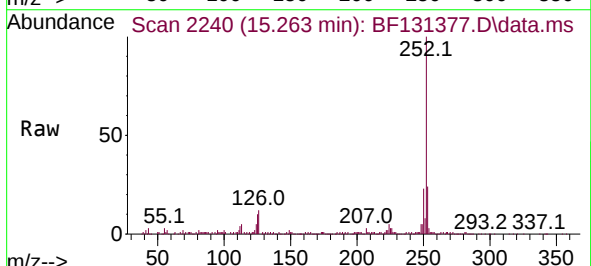
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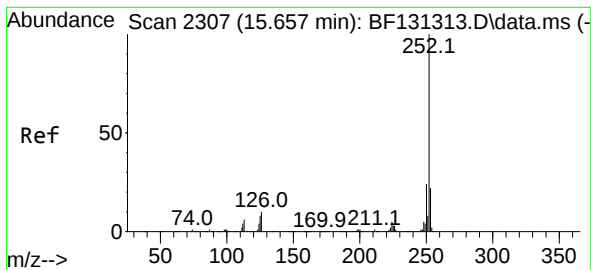
Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022



#89
Benzo(k)fluoranthene
Concen: 5.577 ng m
RT: 15.263 min Scan# 2240
Delta R.T. -0.006 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

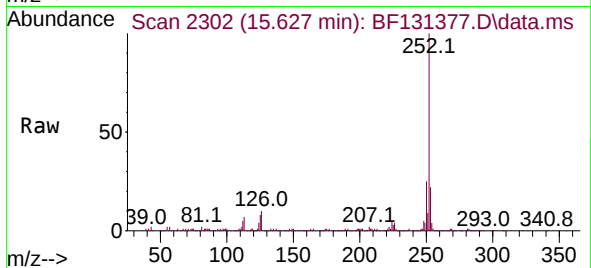
Tgt Ion:252 Resp: 68290
Ion Ratio Lower Upper
252 100
253 24.0 17.9 26.9
125 9.6 6.6 10.0





#90
Benzo(a)pyrene
Concen: 14.635 ng
RT: 15.627 min Scan# 2307
Delta R.T. -0.000 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

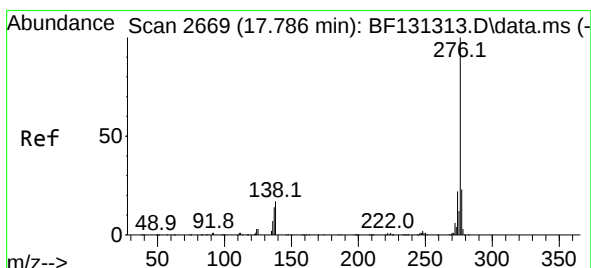
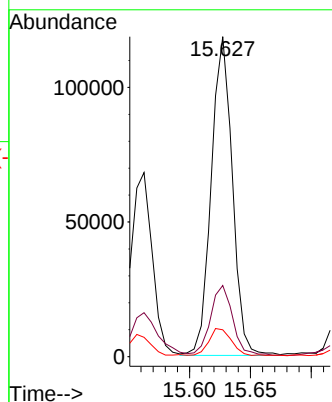
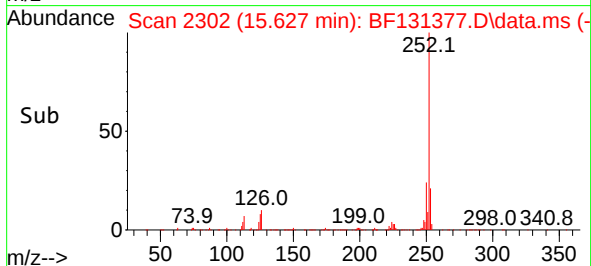
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-18



Tgt Ion:252 Resp: 143097
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 8.4 6.1 9.1

Manual Integrations
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Reviewed By :Christian Giraldo 11/25/2022
Supervised By :Jagrut Upadhyay 11/25/2022



#92
Benzo(g,h,i)perylene
Concen: 5.101 ng
RT: 17.727 min Scan# 2659
Delta R.T. -0.018 min
Lab File: BF131377.D
Acq: 23 Nov 2022 23:48

Tgt Ion:276 Resp: 50636
Ion Ratio Lower Upper
276 100
277 23.8 18.3 27.5
138 16.1 13.8 20.6

