

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021125\
 Data File : BF141569.D
 Acq On : 11 Feb 2025 18:27
 Operator : RC/JU
 Sample : Q1346-01 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMP

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/12/2025
 Supervised By :mohammad ahmed 02/12/2025

Quant Time: Feb 12 00:04:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	82963	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	316593	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	162306	20.000	ng	-0.01
64) Phenanthrene-d10	11.304	188	241677	20.000	ng	-0.01
76) Chrysene-d12	13.951	240	196323	20.000	ng	-0.01
86) Perylene-d12	15.404	264	214562	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	323100	61.056	ng	0.00
7) Phenol-d6	6.434	99	403612	60.344	ng	0.00
23) Nitrobenzene-d5	7.345	82	265308	43.709	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	89444	54.859	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	431439	40.953	ng	-0.01
79) Terphenyl-d14	12.892	244	350028	30.099	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.851	154	22127	2.378	ng	98
58) Fluorene	10.369	166	25946	2.457	ng	97
71) Phenanthrene	11.328	178	319204	23.994	ng	99
72) Anthracene	11.380	178	86148	6.442	ng	98
73) Carbazole	11.539	167	30856	2.564	ng	99
75) Fluoranthene	12.522	202	428808	30.403	ng	99
78) Pyrene	12.751	202	371949	22.256	ng	99
81) Benzo(a)anthracene	13.939	228	258908	19.839	ng	96
83) Chrysene	13.974	228	192616	15.985	ng	98
87) Indeno(1,2,3-cd)pyrene	16.839	276	86497	6.524	ng	97
88) Benzo(b)fluoranthene	14.992	252	262389m	18.213	ng	
89) Benzo(k)fluoranthene	15.004	252	94600m	7.690	ng	
90) Benzo(a)pyrene	15.345	252	185841	15.942	ng	95
91) Dibenzo(a,h)anthracene	16.845	278	27311	2.542	ng	# 90
92) Benzo(g,h,i)perylene	17.268	276	70399	6.262	ng	98

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

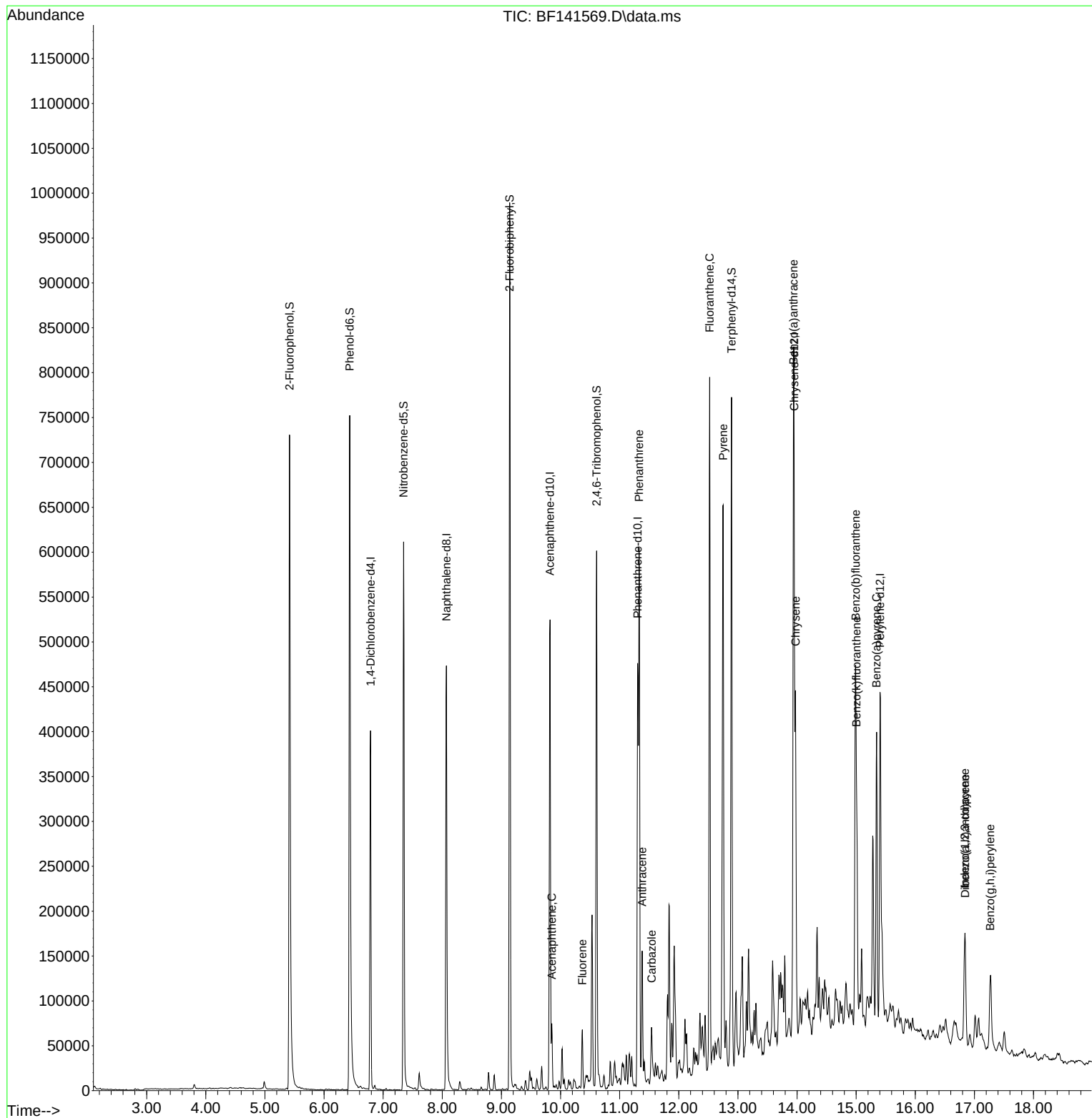
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021125\
Data File : BF141569.D
Acq On : 11 Feb 2025 18:27
Operator : RC/JU
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Misc :
ALS Vial : 20 Sample Multiplier: 1

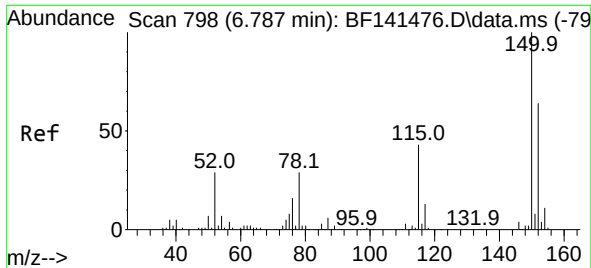
Instrument :
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SOIL-COMP

Quant Time: Feb 12 00:04:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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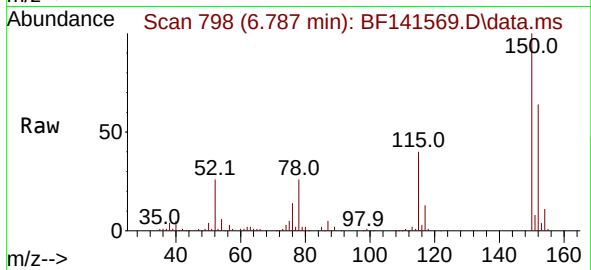
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.005 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

SOIL-COMP

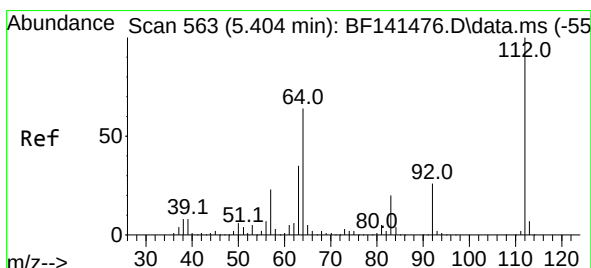
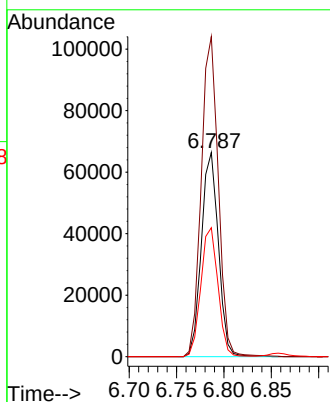
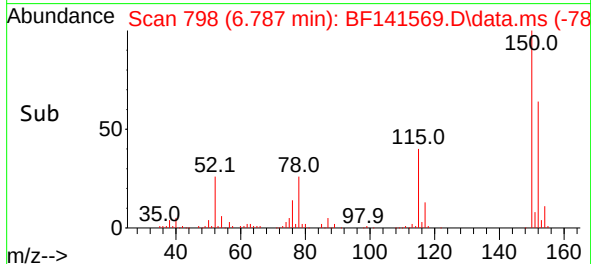


Tgt Ion:152 Resp: 82963
Ion Ratio Lower Upper
152 100
150 156.7 125.0 187.4
115 63.2 53.6 80.4

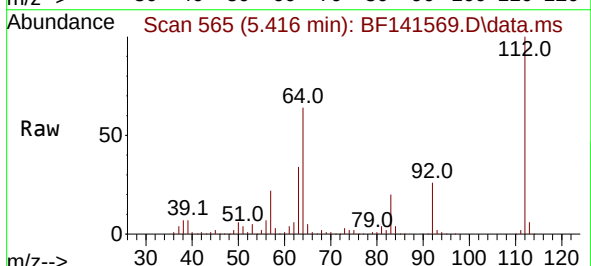
Manual Integrations

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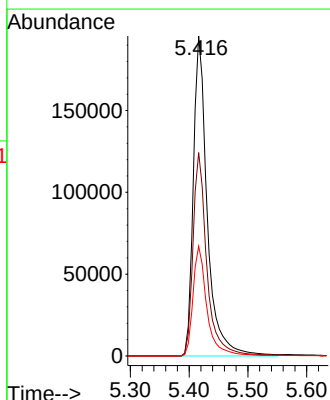
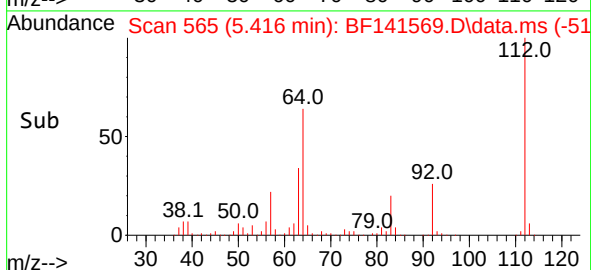
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

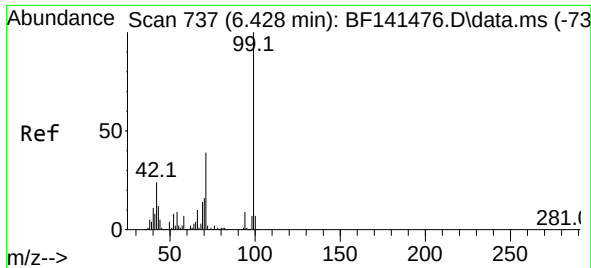


#5
2-Fluorophenol
Concen: 61.056 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27



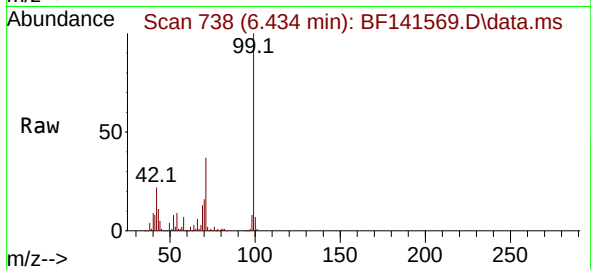
Tgt Ion:112 Resp: 323100
Ion Ratio Lower Upper
112 100
64 63.5 51.1 76.7
63 34.3 28.4 42.6





#7
Phenol-d6
Concen: 60.344 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

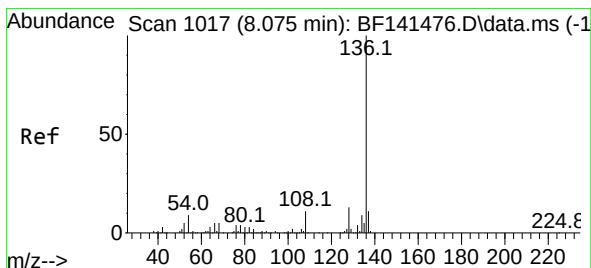
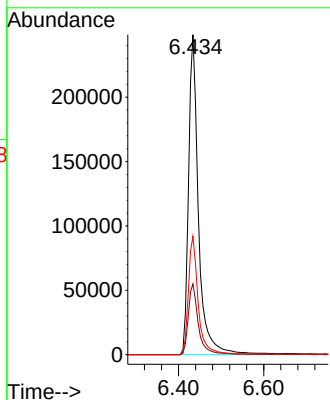
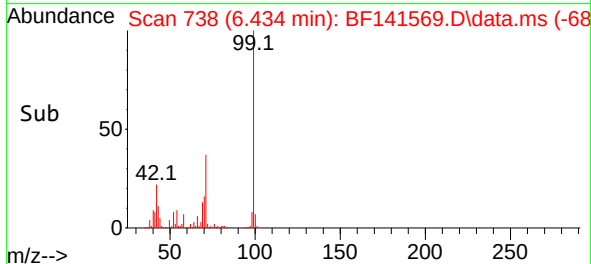
Instrument :
BNA_F
ClientSampleId :
SOIL-COMP



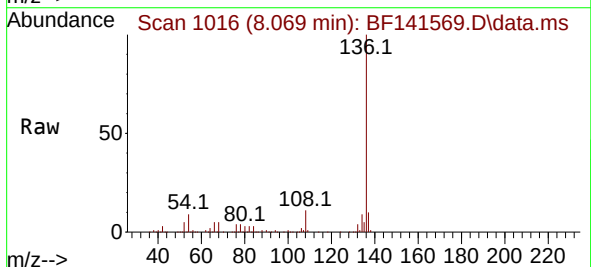
Tgt Ion: 99 Resp: 403612
Ion Ratio Lower Upper
99 100
42 22.1 19.1 28.7
71 37.0 31.1 46.7

Manual Integrations
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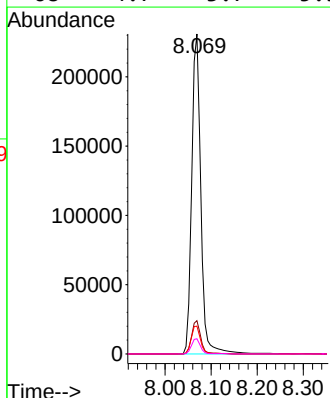
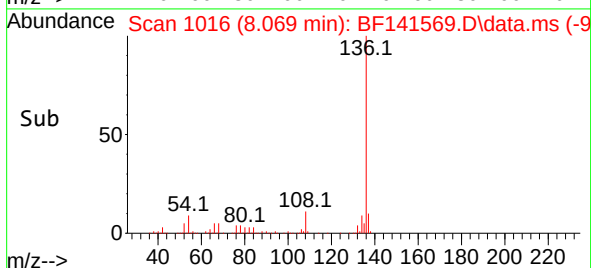
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

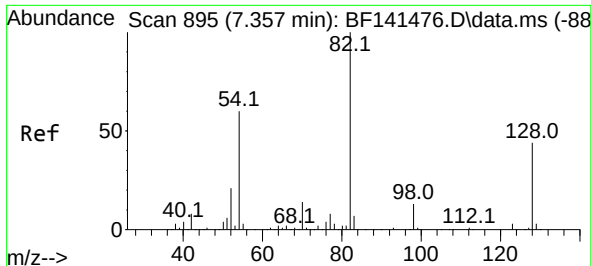


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27



Tgt Ion:136 Resp: 316593
Ion Ratio Lower Upper
136 100
137 10.4 8.6 13.0
54 8.7 7.2 10.8
68 4.7 3.7 5.5





#23

Nitrobenzene-d5

Concen: 43.709 ng

RT: 7.345 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF141569.D

Acq: 11 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

SOIL-COMP

Tgt Ion: 82 Resp: 265308

Ion Ratio Lower Upper

82 100

128 43.2 34.8 52.2

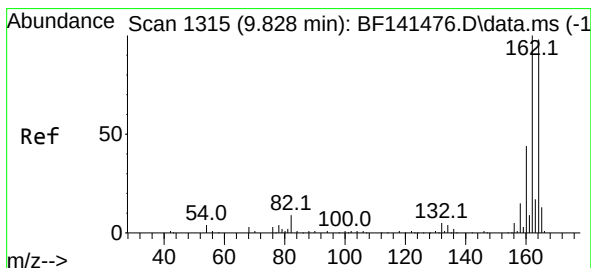
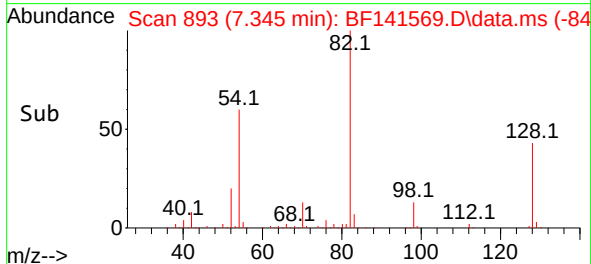
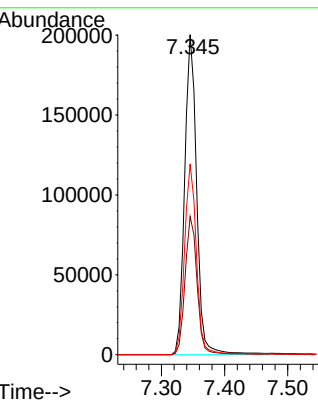
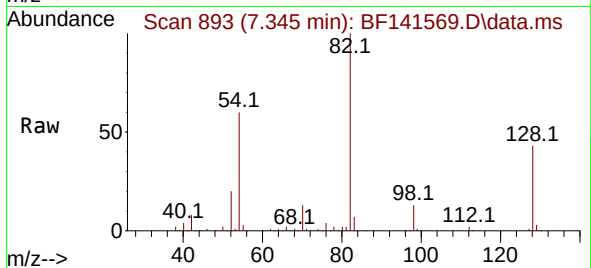
54 59.6 48.2 72.4

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1314

Delta R.T. -0.012 min

Lab File: BF141569.D

Acq: 11 Feb 2025 18:27

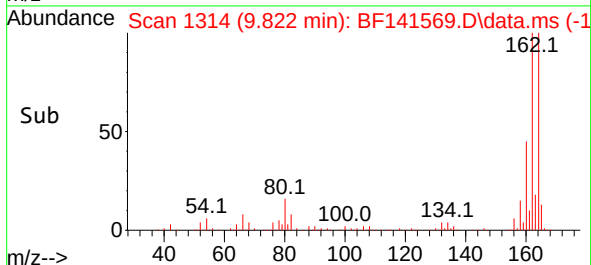
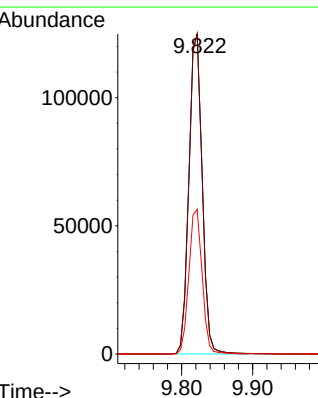
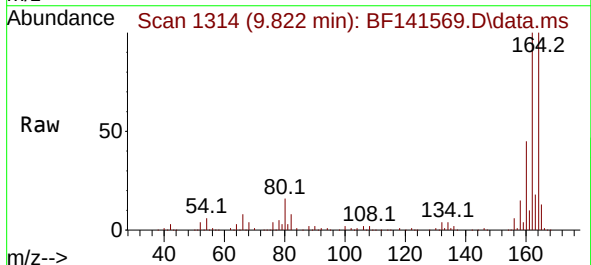
Tgt Ion:164 Resp: 162306

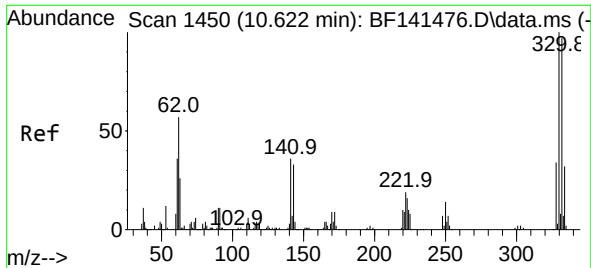
Ion Ratio Lower Upper

164 100

162 99.8 81.3 121.9

160 45.2 35.9 53.9





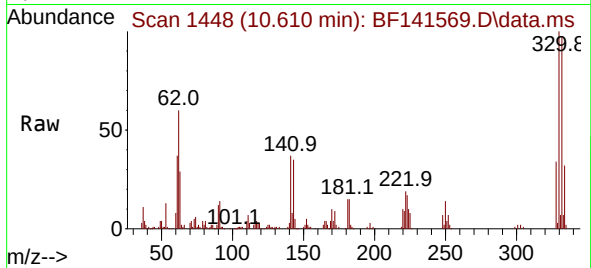
#42
2,4,6-Tribromophenol
Concen: 54.859 ng
RT: 10.610 min Scan# 1450
Delta R.T. -0.017 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

Instrument :

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SOIL-COMP

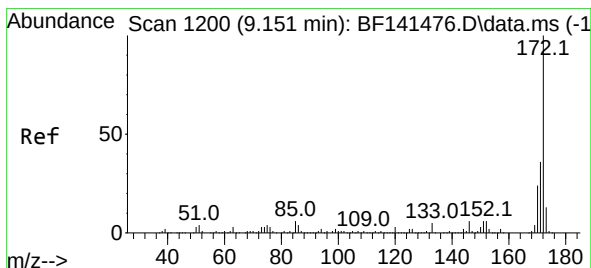
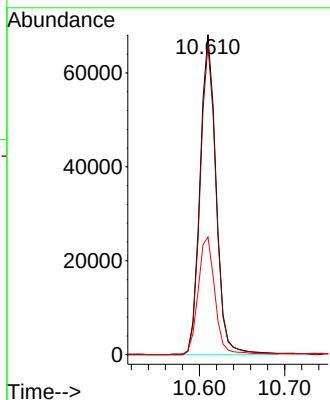
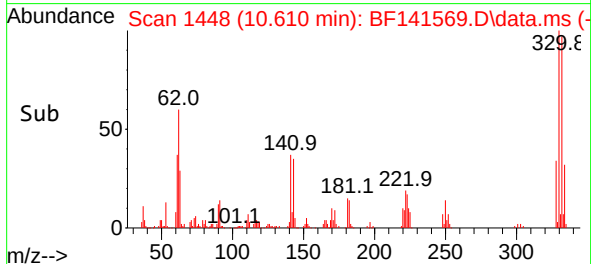


Tgt Ion:330 Resp: 8944
Ion Ratio Lower Upper
330 100
332 96.6 78.5 117.7
141 38.9 31.0 46.4

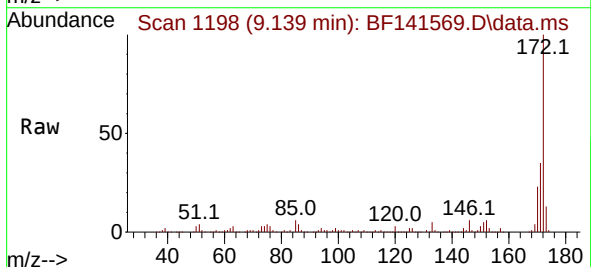
Manual Integrations

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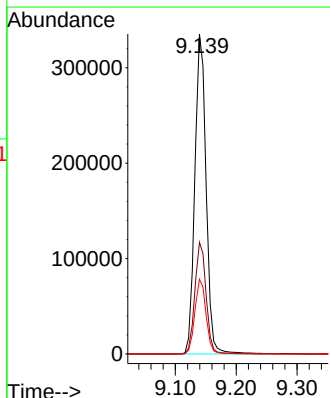
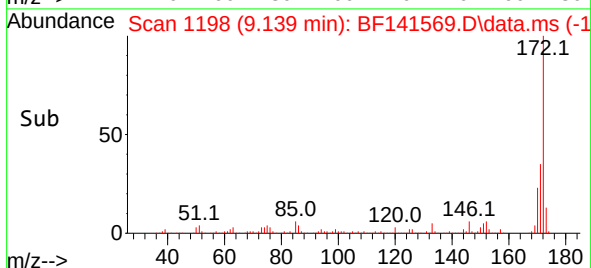
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

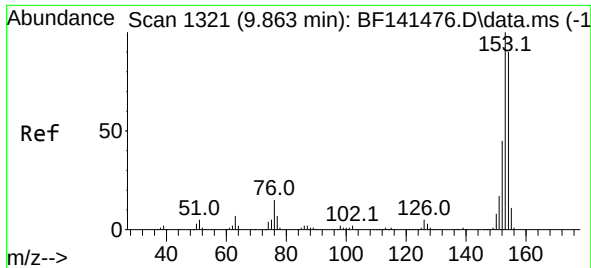


#45
2-Fluorobiphenyl
Concen: 40.953 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27



Tgt Ion:172 Resp: 431439
Ion Ratio Lower Upper
172 100
171 34.9 28.7 43.1
170 23.4 18.9 28.3





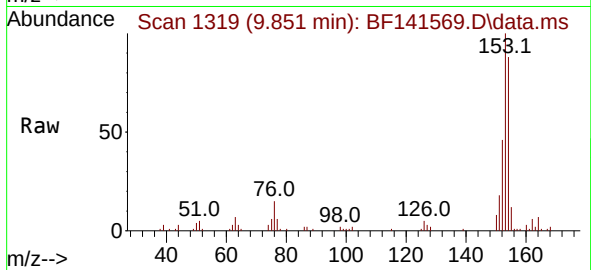
#52
Acenaphthene
Concen: 2.378 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

Instrument :

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SOIL-COMP

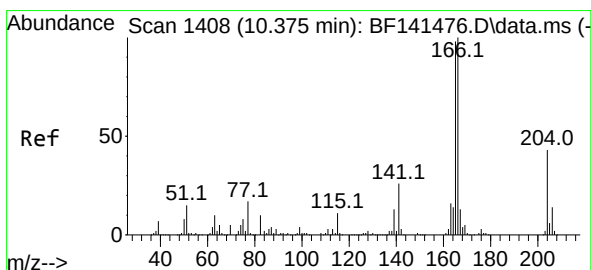
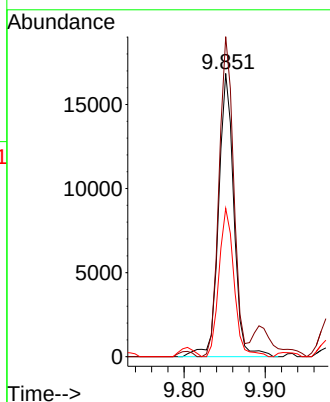
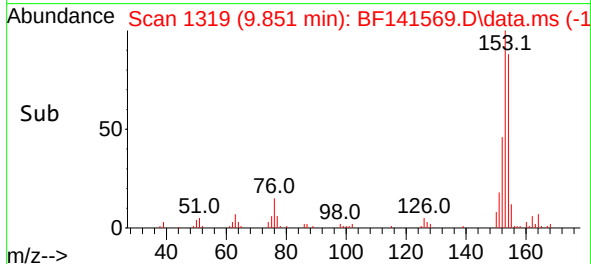


Tgt Ion:154 Resp: 2212
Ion Ratio Lower Upper
154 100
153 113.0 89.2 133.8
152 52.4 39.8 59.8

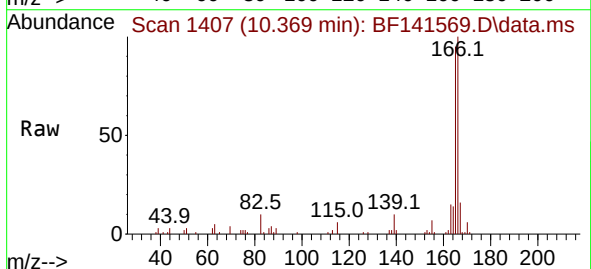
Manual Integrations

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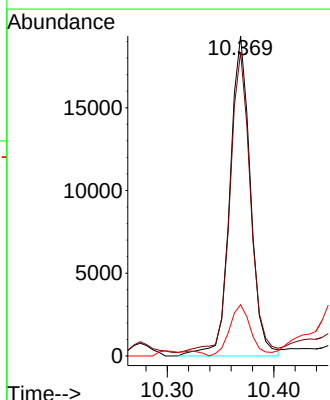
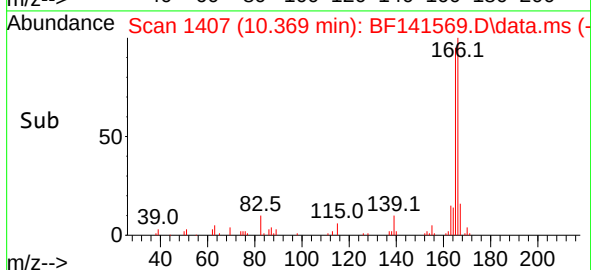
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

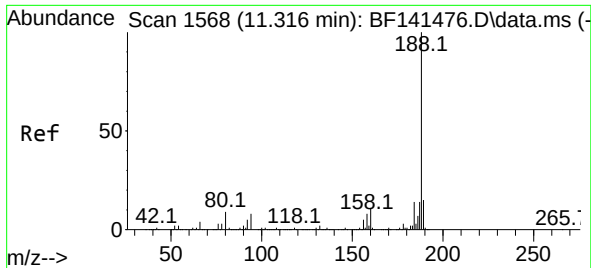


#58
Fluorene
Concen: 2.457 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27



Tgt Ion:166 Resp: 25946
Ion Ratio Lower Upper
166 100
165 95.0 78.2 117.2
167 16.0 10.7 16.1





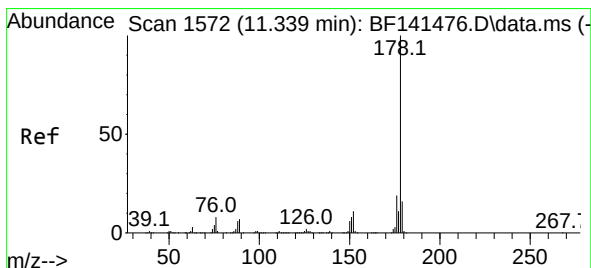
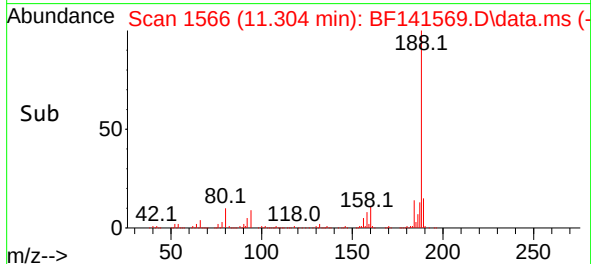
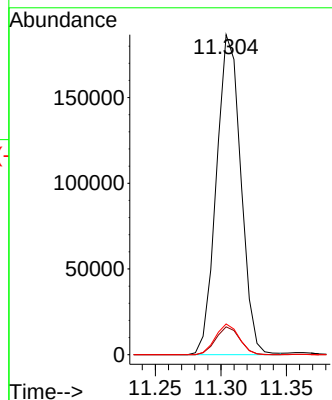
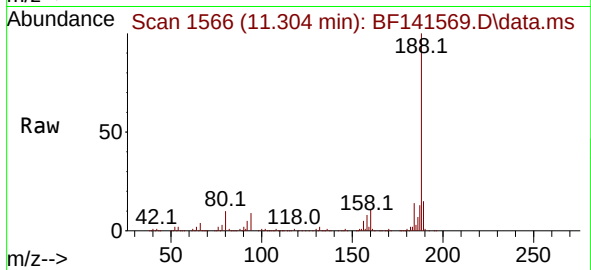
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

Instrument :
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ClientSampleId :
SOIL-COMP

Tgt Ion:188 Resp: 24167
Ion Ratio Lower Upper
188 100
94 8.7 6.6 10.0
80 9.6 7.3 10.9

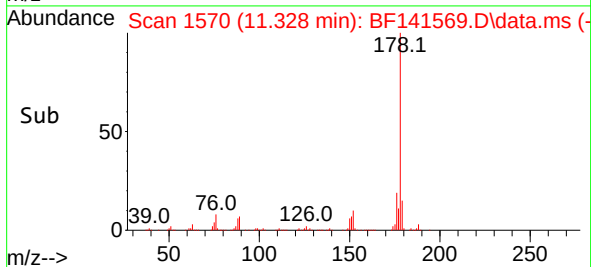
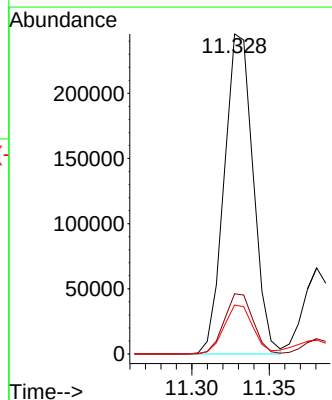
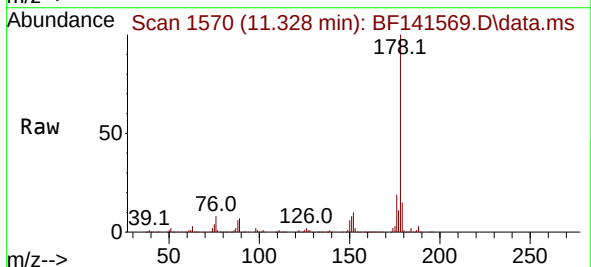
Manual Integrations
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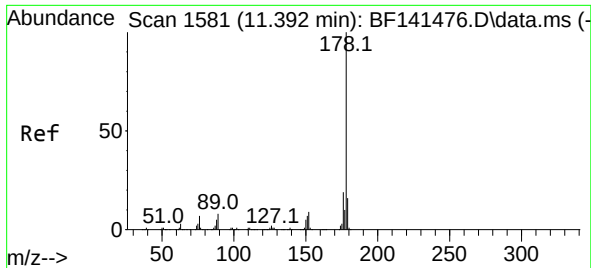
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#71
Phenanthrene
Concen: 23.994 ng
RT: 11.328 min Scan# 1570
Delta R.T. -0.017 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

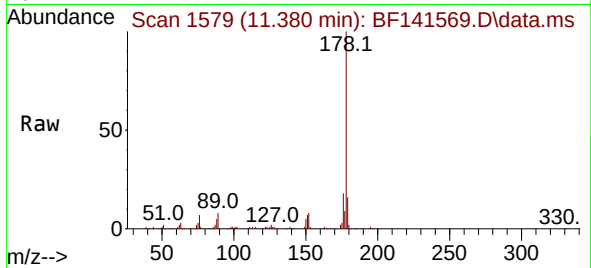
Tgt Ion:178 Resp: 319204
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.3 12.4 18.6





#72
 Anthracene
 Concen: 6.442 ng
 RT: 11.380 min Scan# 11
 Delta R.T. -0.017 min
 Lab File: BF141569.D
 Acq: 11 Feb 2025 18:27

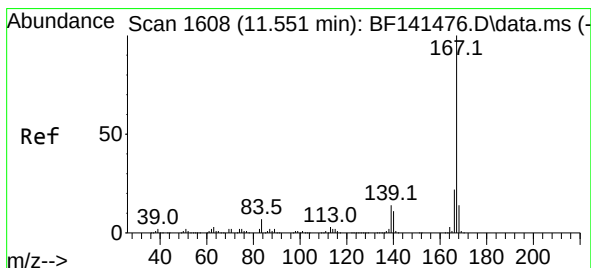
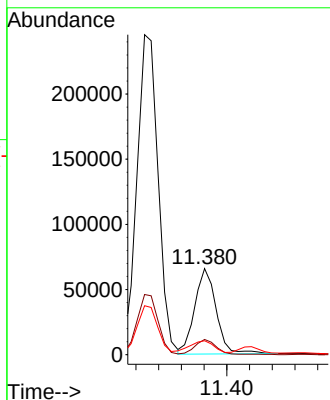
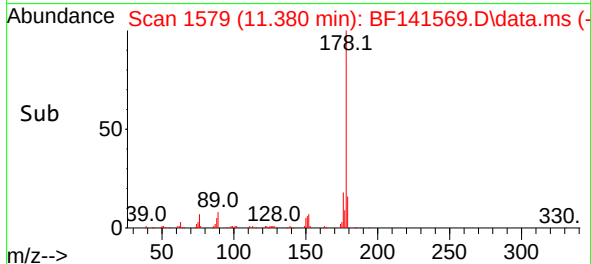
Instrument :
 BNA_F
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 SOIL-COMP



Tgt Ion:178 Resp: 86148
 Ion Ratio Lower Upper
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 176 17.7 14.8 22.2
 179 16.1 12.4 18.6

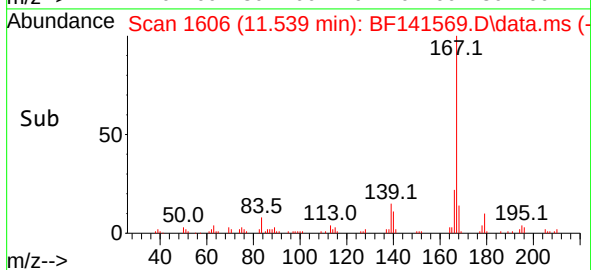
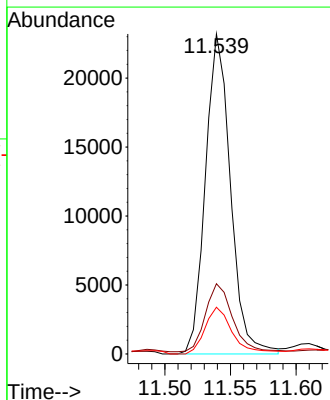
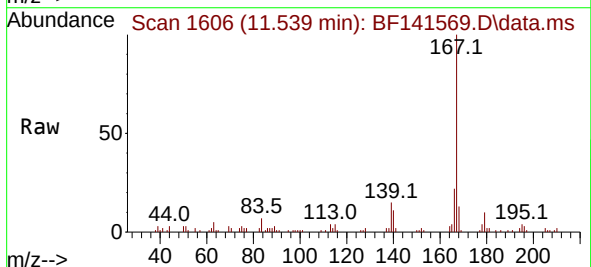
Manual Integrations
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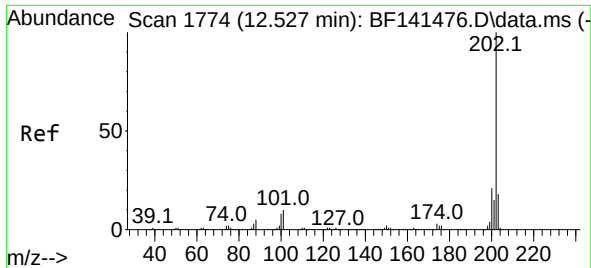
Reviewed By :Yogesh Patel 02/12/2025
 Supervised By :mohammad ahmed 02/12/2025



#73
 Carbazole
 Concen: 2.564 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141569.D
 Acq: 11 Feb 2025 18:27

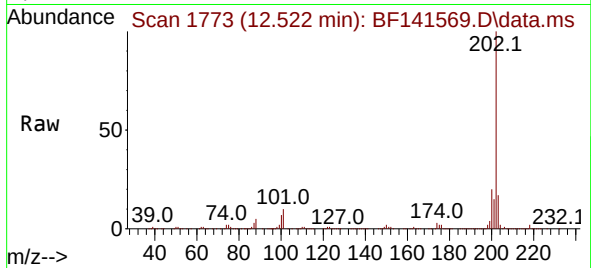
Tgt Ion:167 Resp: 30856
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.2
 139 14.6 10.9 16.3





#75
Fluoranthene
Concen: 30.403 ng
RT: 12.522 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

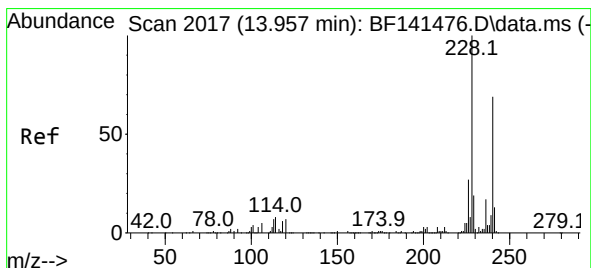
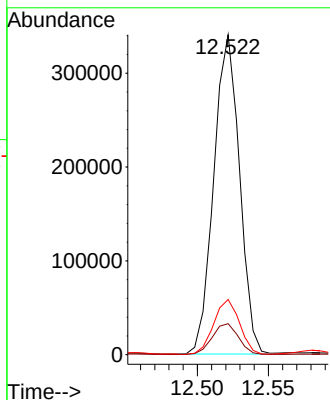
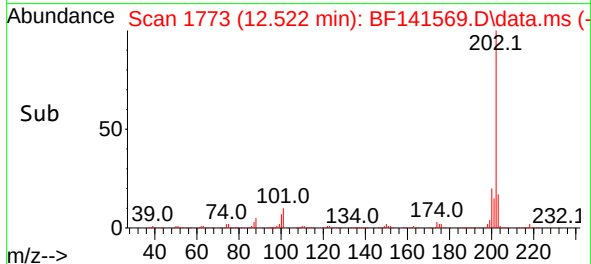
Instrument :
BNA_F
ClientSampleId :
SOIL-COMP



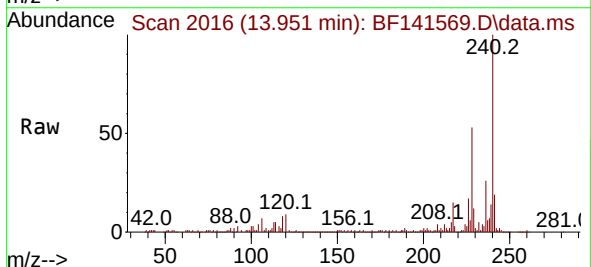
Tgt Ion:202 Resp: 428808
Ion Ratio Lower Upper
202 100
101 9.7 0.0 30.2
203 17.3 0.0 37.6

Manual Integrations
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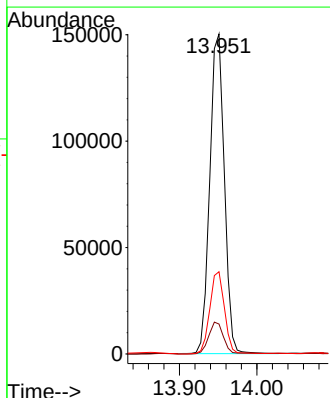
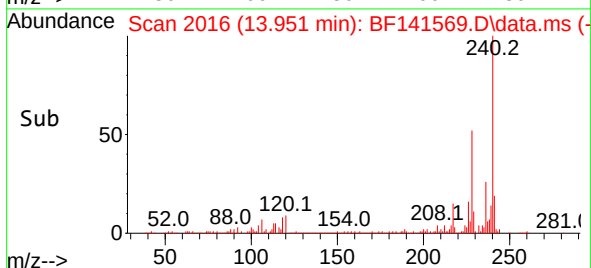
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

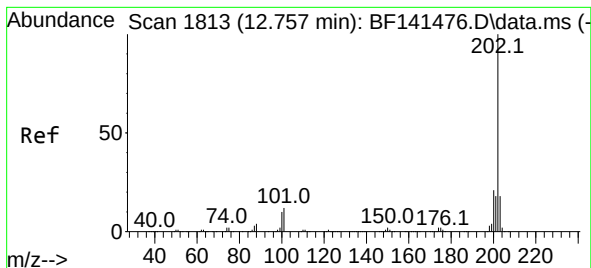


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27



Tgt Ion:240 Resp: 196323
Ion Ratio Lower Upper
240 100
120 9.3 8.0 12.0
236 25.7 19.8 29.8





#78

Pyrene

Concen: 22.256 ng

RT: 12.751 min Scan# 1812

Delta R.T. -0.012 min

Lab File: BF141569.D

Acq: 11 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

SOIL-COMP

Tgt Ion:202 Resp: 371949

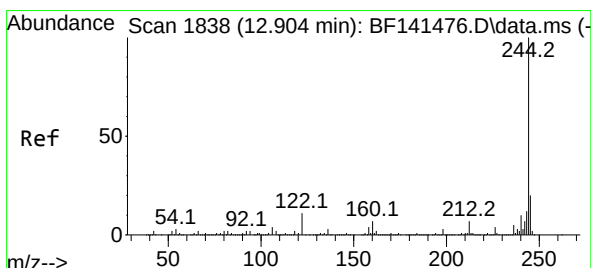
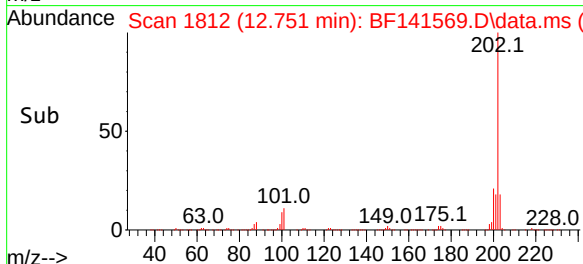
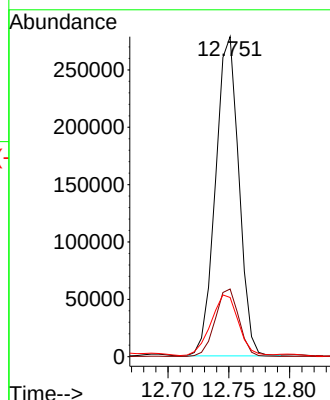
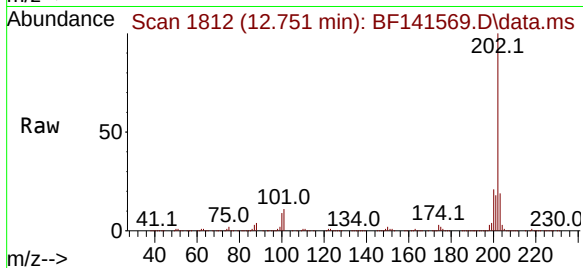
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	18.5	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025



#79

Terphenyl-d14

Concen: 30.099 ng

RT: 12.892 min Scan# 1836

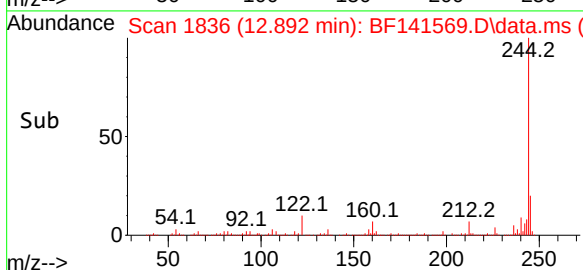
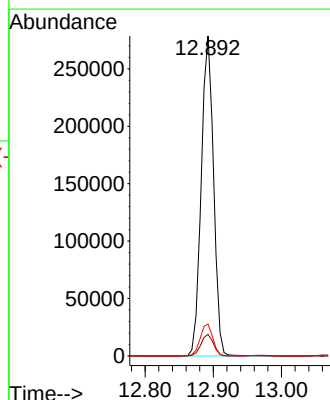
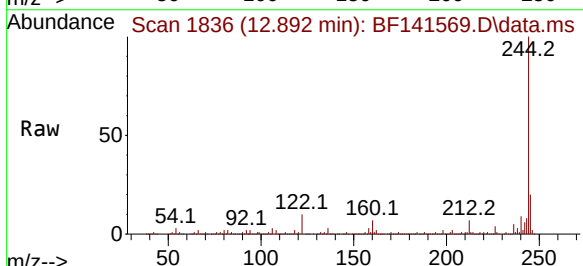
Delta R.T. -0.012 min

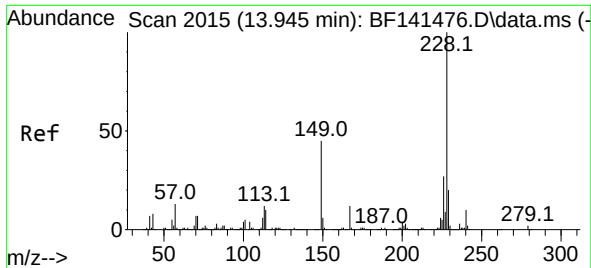
Lab File: BF141569.D

Acq: 11 Feb 2025 18:27

Tgt Ion:244 Resp: 350028

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.0	8.4	12.6





#81
Benzo(a)anthracene
Concen: 19.839 ng
RT: 13.939 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

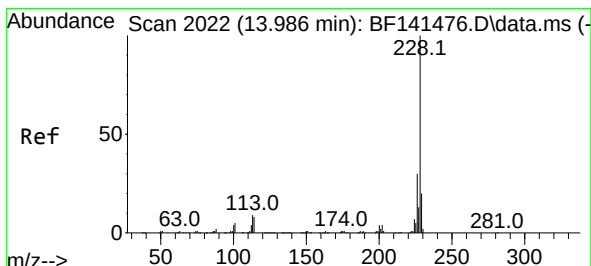
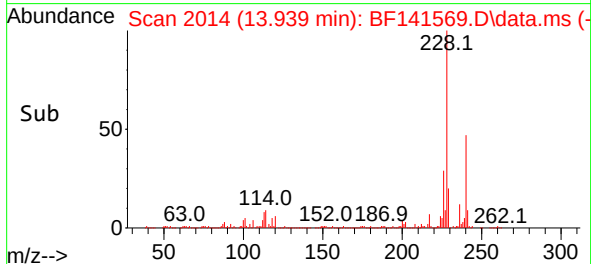
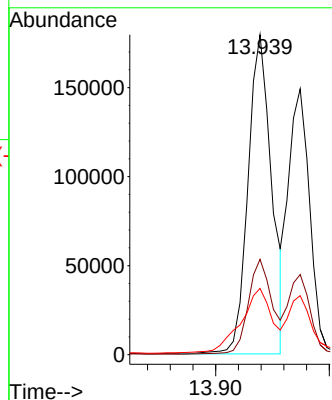
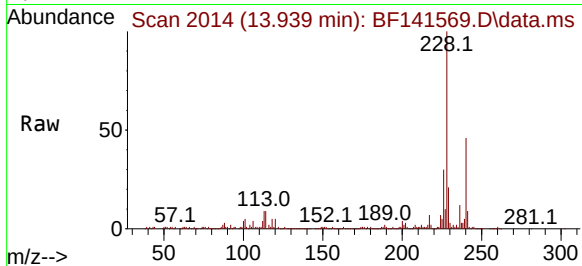
SOIL-COMP

Tgt Ion:228 Resp: 258908
Ion Ratio Lower Upper
228 100
226 29.8 21.8 32.8
229 20.7 15.8 23.6

Manual Integrations

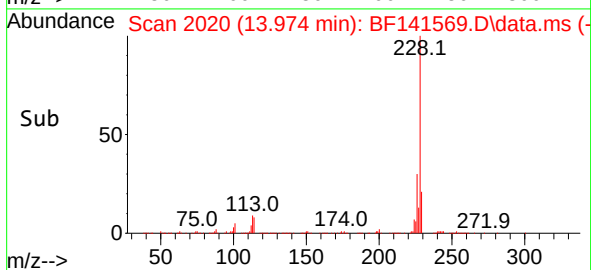
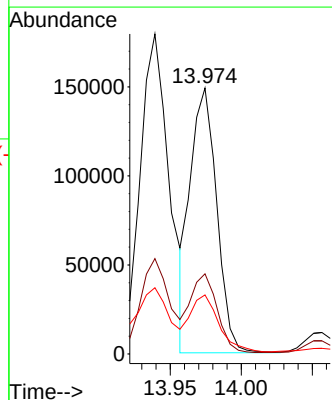
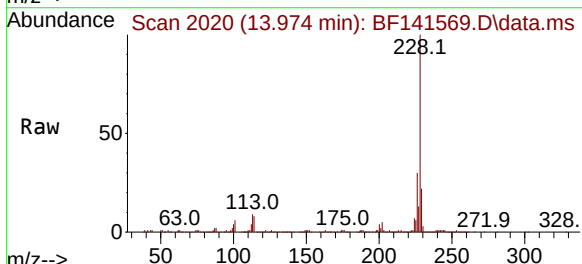
APPROVED

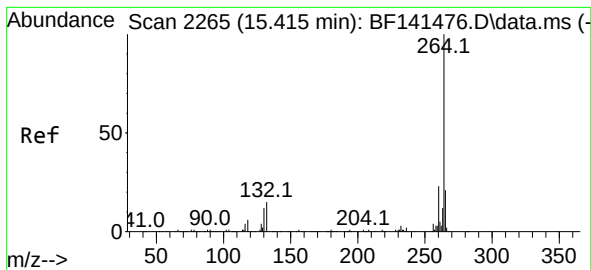
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#83
Chrysene
Concen: 15.985 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.017 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

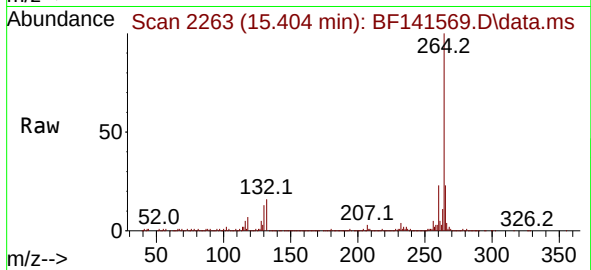
Tgt Ion:228 Resp: 192616
Ion Ratio Lower Upper
228 100
226 30.1 24.0 36.0
229 22.2 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.404 min Scan# 2156
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

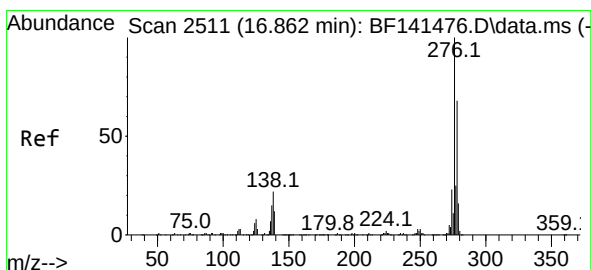
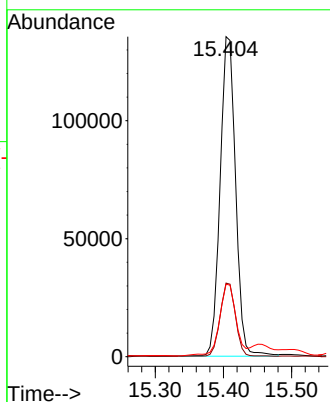
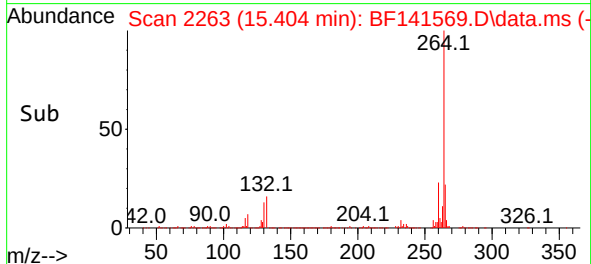
Instrument :
BNA_F
ClientSampleId :
SOIL-COMP



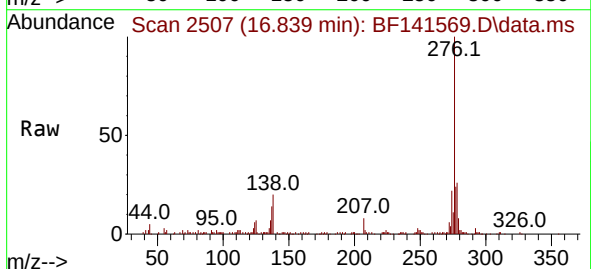
Tgt Ion:264 Resp: 21456
Ion Ratio Lower Upper
264 100
260 23.0 18.6 28.0
265 22.6 17.0 25.4

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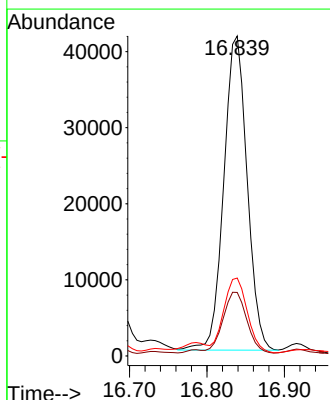
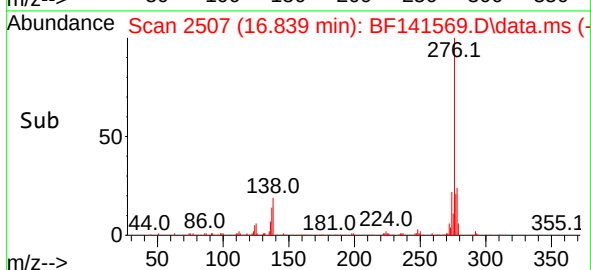
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

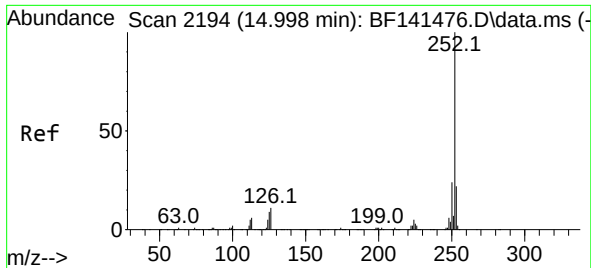


#87
Indeno(1,2,3-cd)pyrene
Concen: 6.524 ng
RT: 16.839 min Scan# 2507
Delta R.T. -0.035 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27



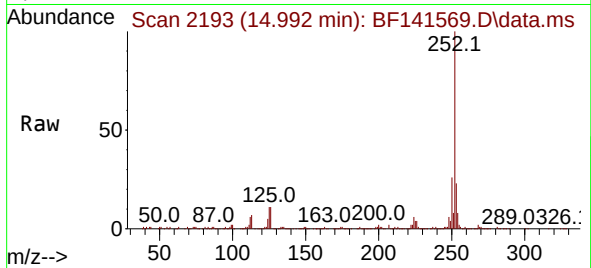
Tgt Ion:276 Resp: 86497
Ion Ratio Lower Upper
276 100
138 20.7 18.0 27.0
277 23.9 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 18.213 ng m
RT: 14.992 min Scan# 2193
Delta R.T. -0.012 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

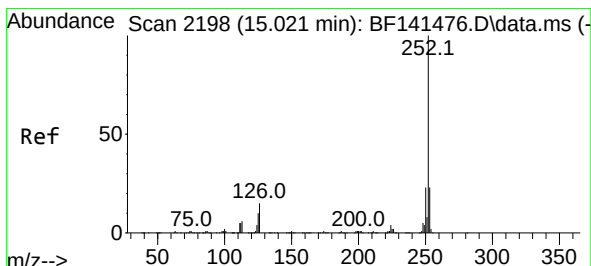
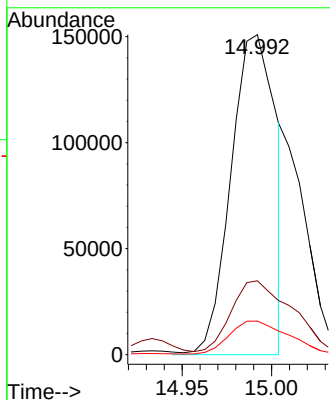
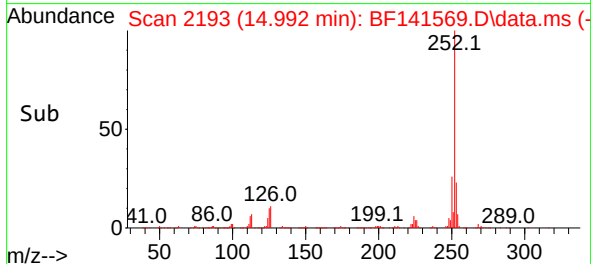
Instrument :
BNA_F
ClientSampleId :
SOIL-COMP



Tgt Ion:252 Resp: 262389
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 10.5 7.0 10.6

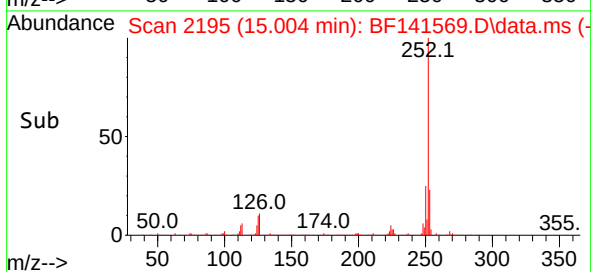
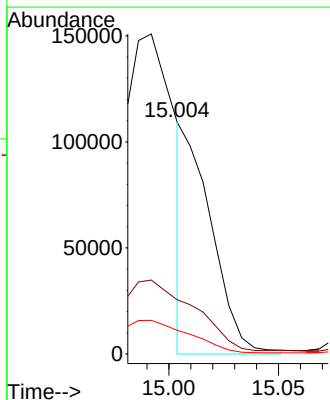
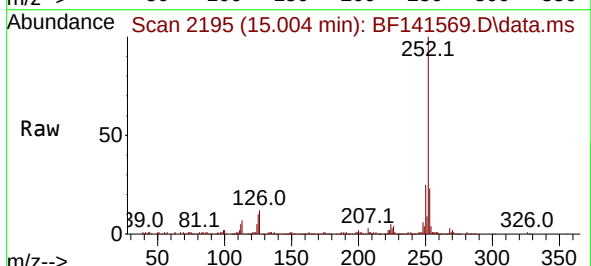
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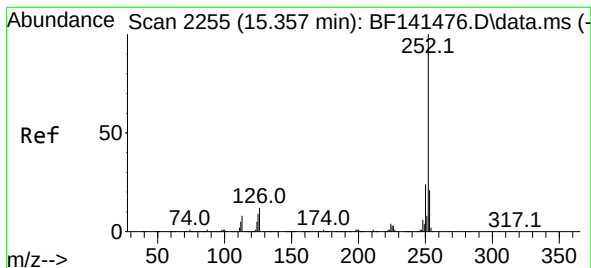
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#89
Benzo(k)fluoranthene
Concen: 7.690 ng m
RT: 15.004 min Scan# 2195
Delta R.T. -0.029 min
Lab File: BF141569.D
Acq: 11 Feb 2025 18:27

Tgt Ion:252 Resp: 94600
Ion Ratio Lower Upper
252 100
253 23.3 18.0 27.0
125 10.2 7.4 11.0





#90

Benzo(a)pyrene

Concen: 15.942 ng

RT: 15.345 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF141569.D

Acq: 11 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

SOIL-COMP

Tgt Ion:252 Resp: 18584

Ion Ratio Lower Upper

252 100

253 24.3 17.1 25.7

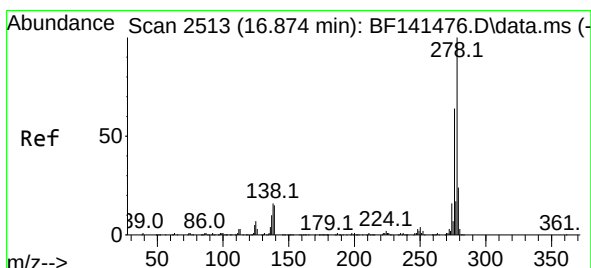
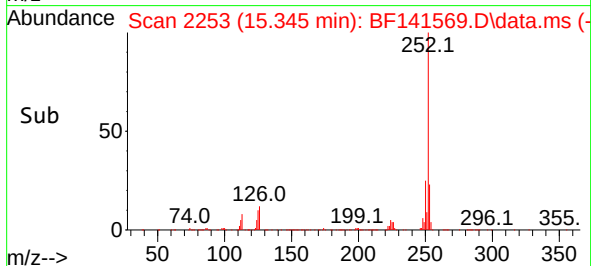
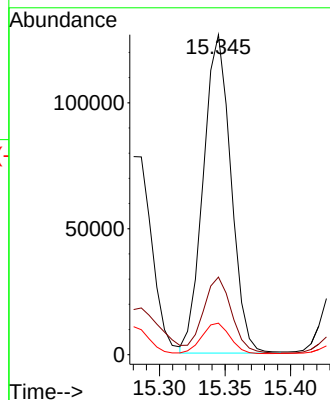
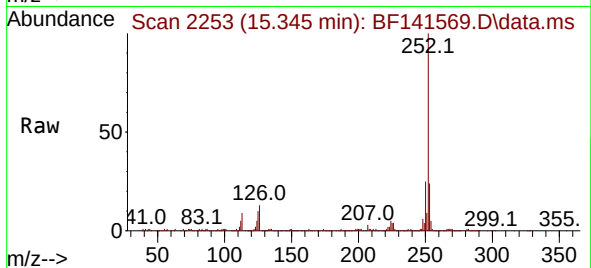
125 9.9 7.4 11.2

Manual Integrations

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Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025



#91

Dibenzo(a,h)anthracene

Concen: 2.542 ng

RT: 16.845 min Scan# 2508

Delta R.T. -0.047 min

Lab File: BF141569.D

Acq: 11 Feb 2025 18:27

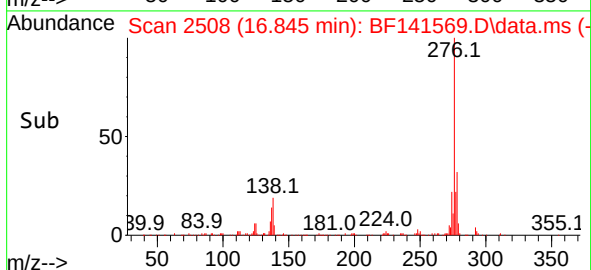
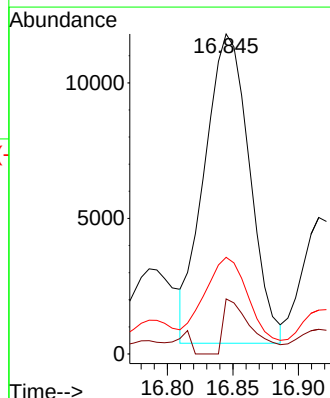
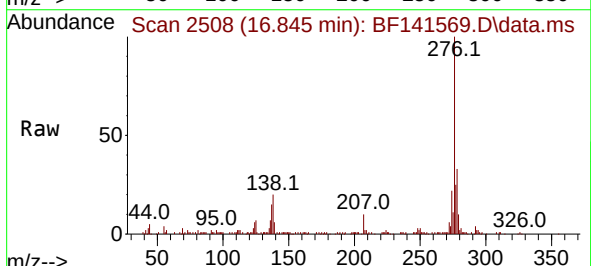
Tgt Ion:278 Resp: 27311

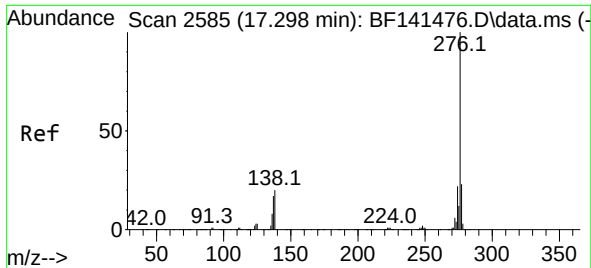
Ion Ratio Lower Upper

278 100

139 17.2 11.8 17.6

279 30.2 19.1 28.7#





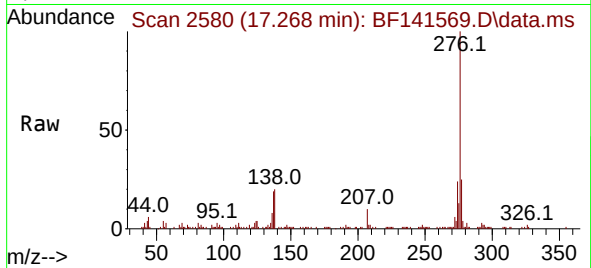
#92
 Benzo(g,h,i)perylene
 Concen: 6.262 ng
 RT: 17.268 min Scan# 2580
 Delta R.T. -0.047 min
 Lab File: BF141569.D
 Acq: 11 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

SOIL-COMP



Tgt Ion:276 Resp: 70399
 Ion Ratio Lower Upper
 276 100
 277 24.9 18.6 28.0
 138 20.0 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025

