

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
 Data File : BF135091.D
 Acq On : 05 Sep 2023 12:47
 Operator : CG\JU
 Sample : 04212-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

Quant Time: Sep 05 13:16:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	106825	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	395684	20.000	ng	0.00
39) Acenaphthene-d10	9.804	164	190226	20.000	ng	-0.01
64) Phenanthrene-d10	11.298	188	325740	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	182326	20.000	ng	# 0.00
86) Perylene-d12	15.421	264	215121	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	716935	103.664	ng	0.00
7) Phenol-d6	6.410	99	879594	102.038	ng	0.00
23) Nitrobenzene-d5	7.333	82	567513	80.578	ng	-0.01
42) 2,4,6-Tribromophenol	10.604	330	211678	104.900	ng	0.00
45) 2-Fluorobiphenyl	9.127	172	787500	67.401	ng	-0.01
79) Terphenyl-d14	12.898	244	610748	54.665	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.321	178	36620	2.179	ng	97
75) Fluoranthene	12.516	202	85787	5.049	ng	99
78) Pyrene	12.745	202	79297	4.581	ng	99
81) Benzo(a)anthracene	13.945	228	40207m	3.233	ng	
83) Chrysene	13.980	228	45554	3.727	ng	96
87) Indeno(1,2,3-cd)pyrene	16.898	276	35541	2.453	ng	97
88) Benzo(b)fluoranthene	14.998	252	71432m	5.337	ng	
90) Benzo(a)pyrene	15.357	252	46464	3.737	ng	# 95
92) Benzo(g,h,i)perylene	17.345	276	32803	2.688	ng	96

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

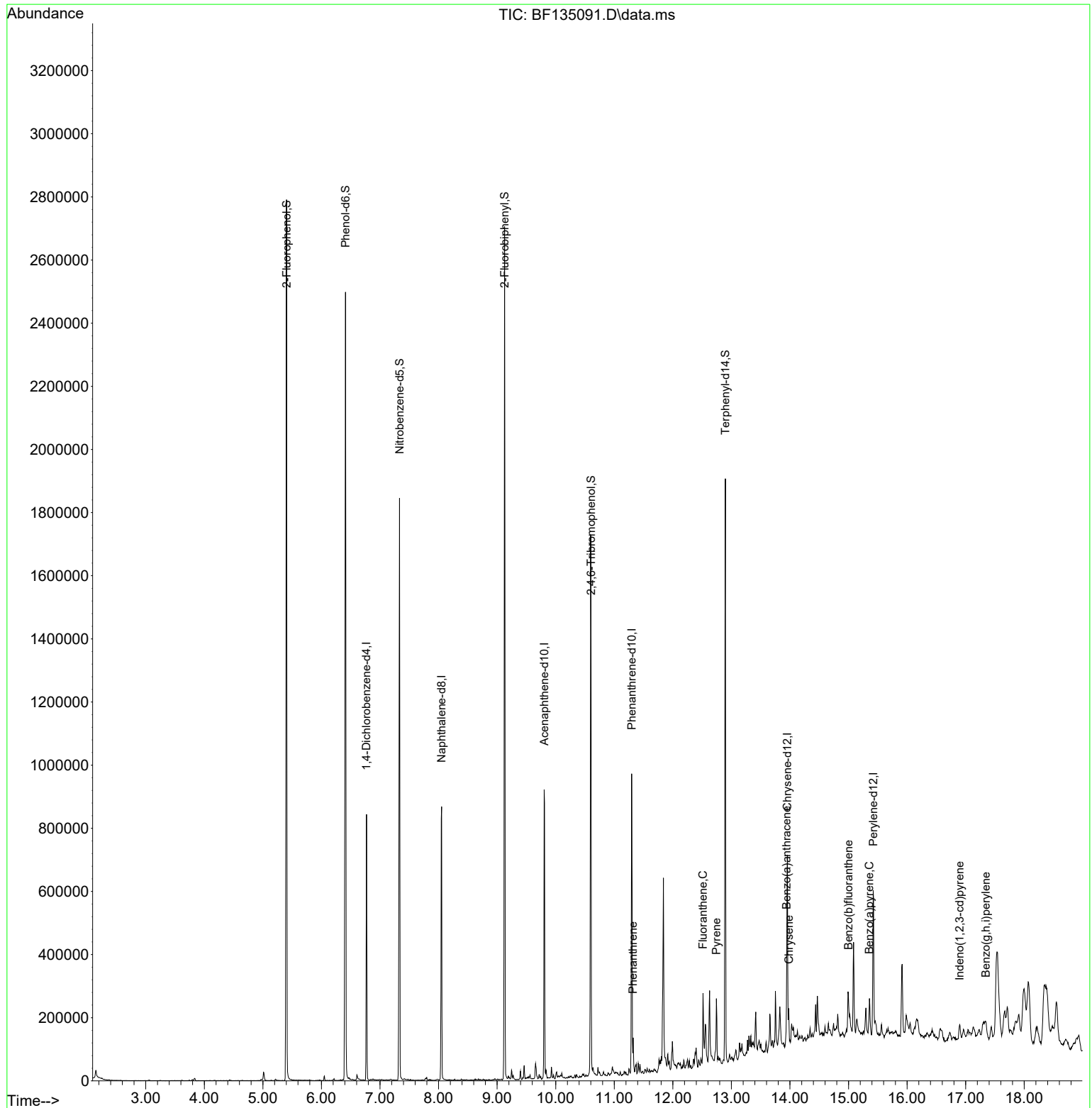
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
Data File : BF135091.D
Acq On : 05 Sep 2023 12:47
Operator : CG\JU
Sample : 04212-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

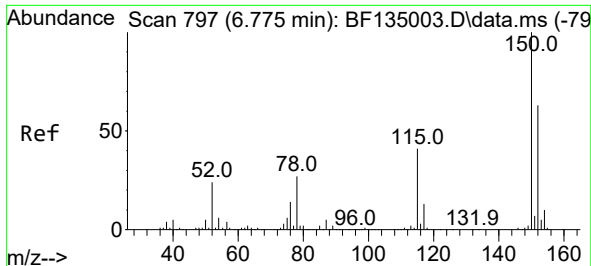
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

Quant Time: Sep 05 13:16:39 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 31 03:48:08 2023
Response via : Initial Calibration

Manual Integrations
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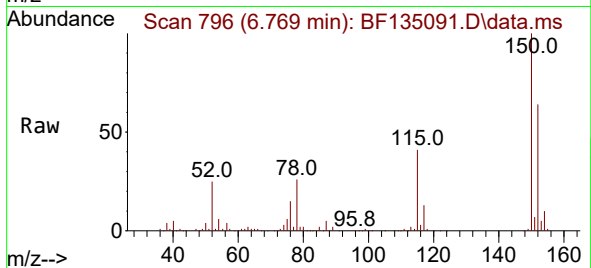
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

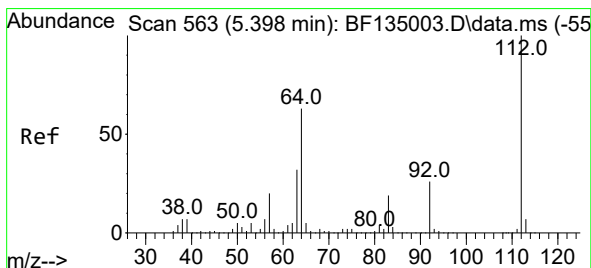
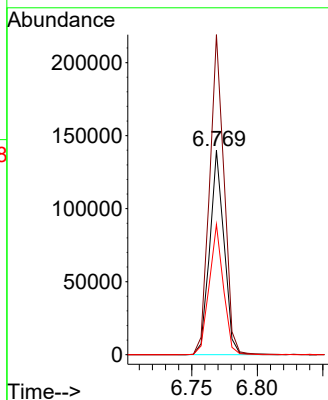
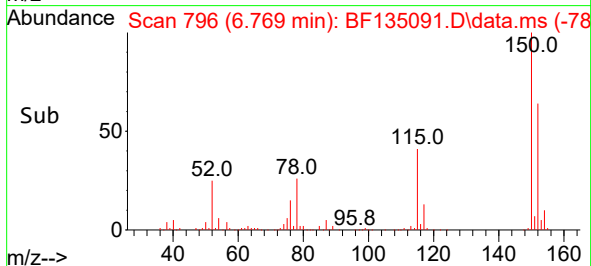
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



Tgt Ion:152 Resp: 106825
Ion Ratio Lower Upper
152 100
150 156.6 126.2 189.4
115 63.8 51.2 76.8

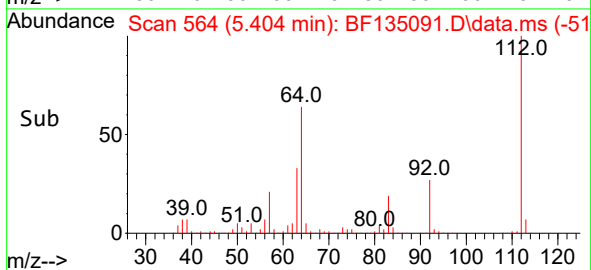
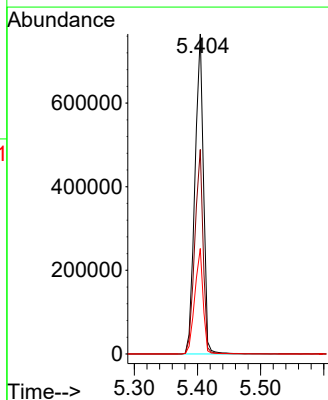
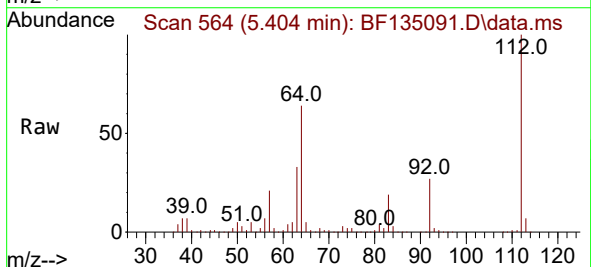
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#5
2-Fluorophenol
Concen: 103.664 ng
RT: 5.404 min Scan# 564
Delta R.T. 0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

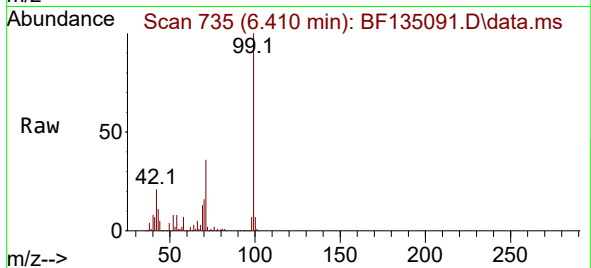
Tgt Ion:112 Resp: 716935
Ion Ratio Lower Upper
112 100
64 63.9 50.5 75.7
63 33.0 25.9 38.9





#7
Phenol-d6
Concen: 102.038 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

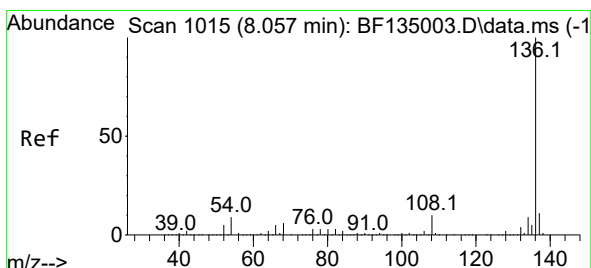
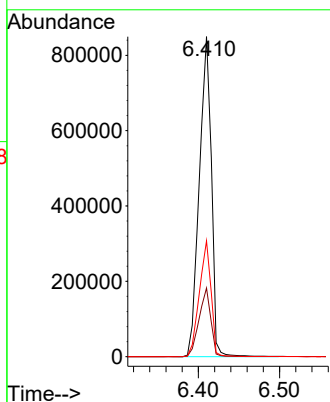
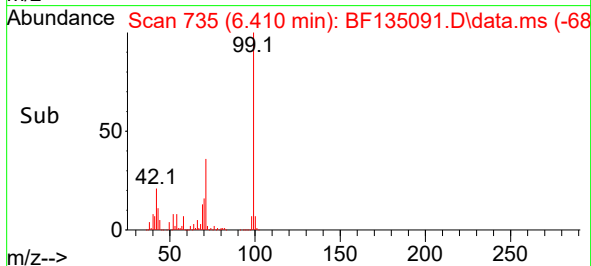
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



Tgt Ion: 99 Resp: 879594
Ion Ratio Lower Upper
99 100
42 21.4 16.6 25.0
71 36.2 27.0 40.6

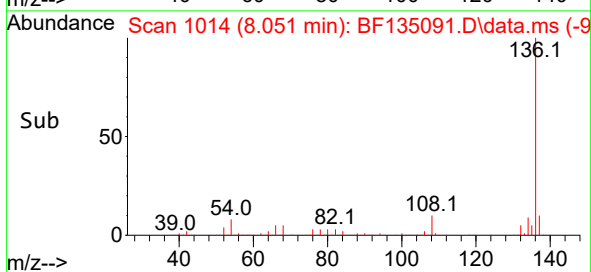
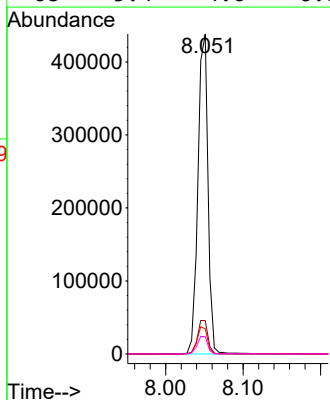
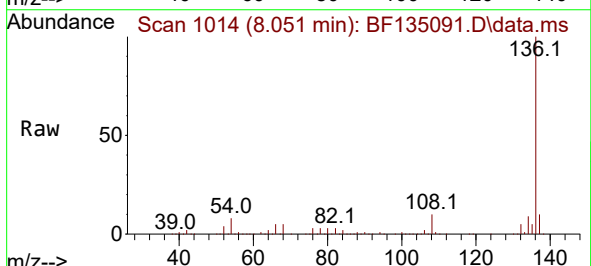
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Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:136 Resp: 395684
Ion Ratio Lower Upper
136 100
137 10.4 8.8 13.2
54 7.9 7.0 10.4
68 5.4 4.6 6.8





#23

Nitrobenzene-d5

Concen: 80.578 ng

RT: 7.333 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF135091.D

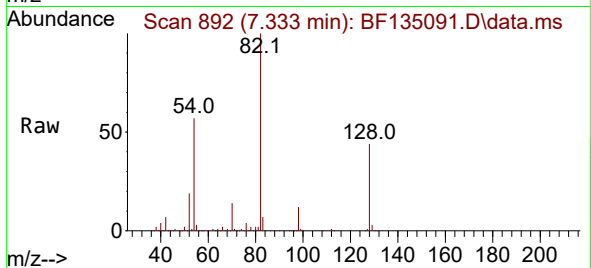
Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

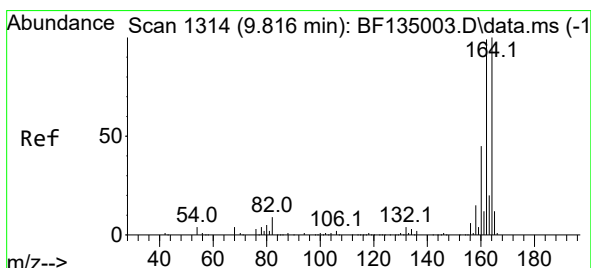
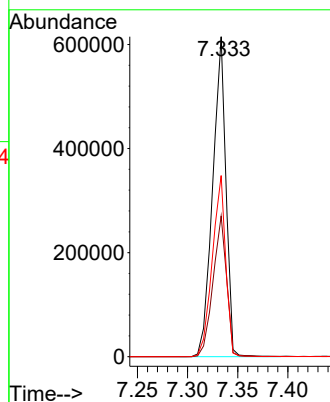
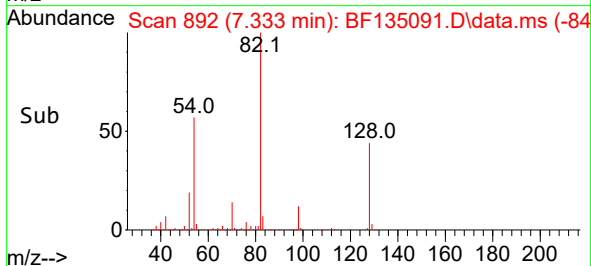
TOPSOIL-OU3-DENALI-2



Tgt Ion:	82	Resp:	56751
Ion Ratio	Lower	Upper	
82	100		
128	44.0	37.8	56.8
54	56.6	45.0	67.6

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#39

Acenaphthene-d10

Concen: 20.000 ng

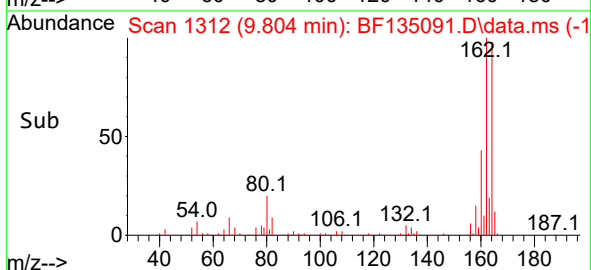
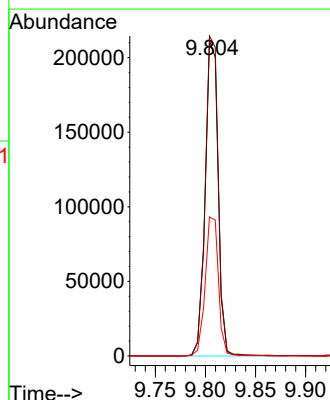
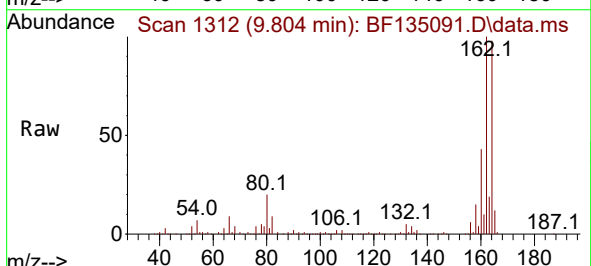
RT: 9.804 min Scan# 1312

Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

Tgt Ion:	164	Resp:	190226
Ion Ratio	Lower	Upper	
164	100		
162	101.6	79.5	119.3
160	44.1	36.0	54.0





#42

2,4,6-Tribromophenol

Concen: 104.900 ng

RT: 10.604 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BF135091.D

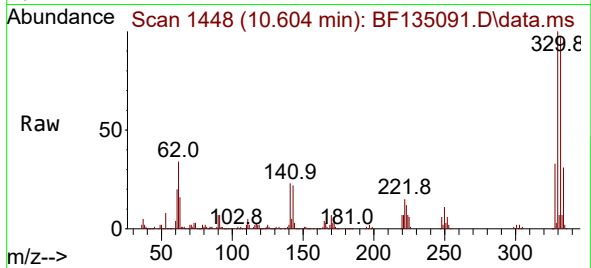
Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



Tgt Ion: 330 Resp: 211678

Ion Ratio Lower Upper

330 100

332 96.3 77.6 116.4

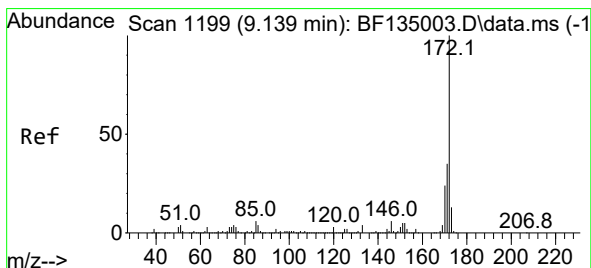
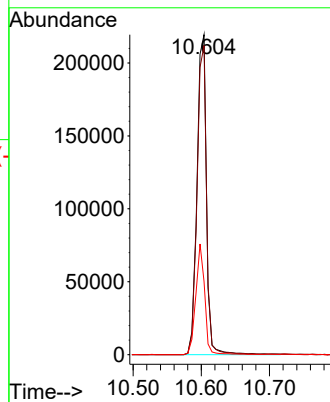
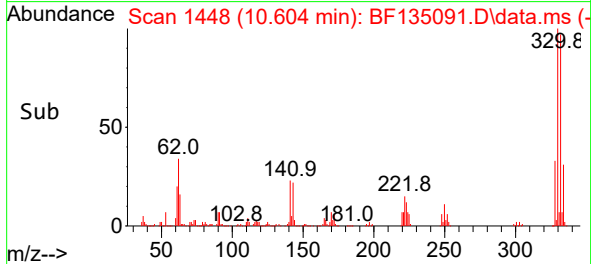
141 32.5 26.3 39.5

Manual Integrations

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#45

2-Fluorobiphenyl

Concen: 67.401 ng

RT: 9.127 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

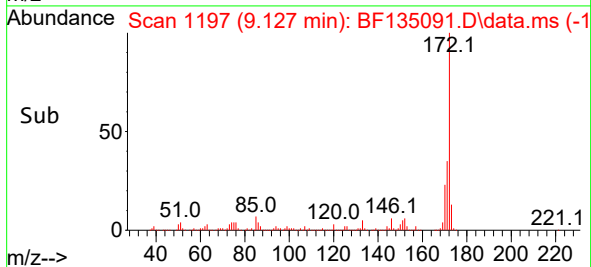
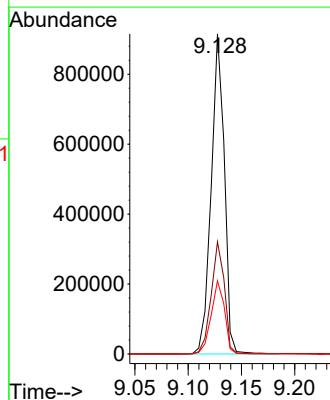
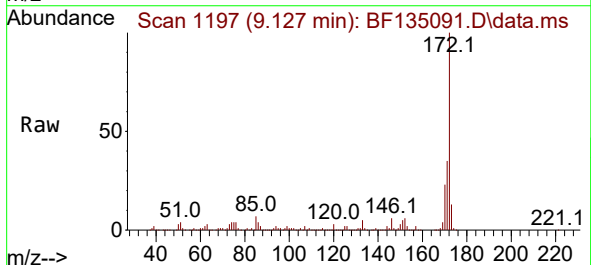
Tgt Ion: 172 Resp: 787500

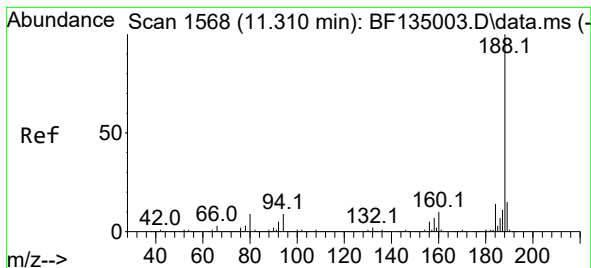
Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.2

170 22.9 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1566

Delta R.T. -0.012 min

Lab File: BF135091.D

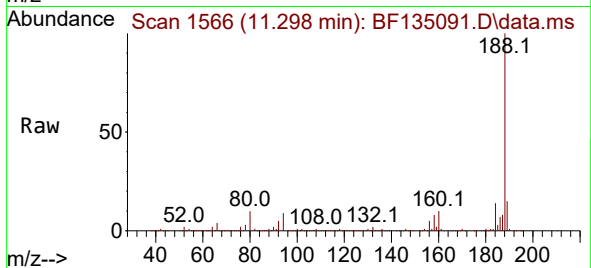
Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



Tgt Ion:188 Resp: 325740

Ion Ratio Lower Upper

188 100

94 9.2 7.0 10.4

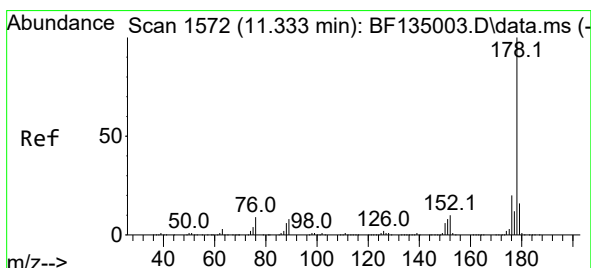
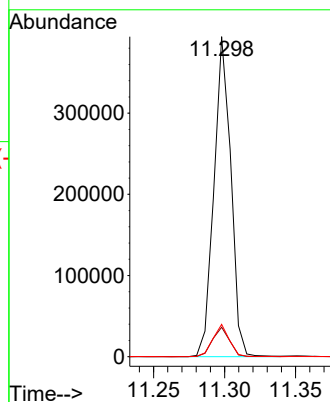
80 10.1 7.4 11.2

Manual Integrations

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Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#71

Phenanthrene

Concen: 2.179 ng

RT: 11.321 min Scan# 1570

Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

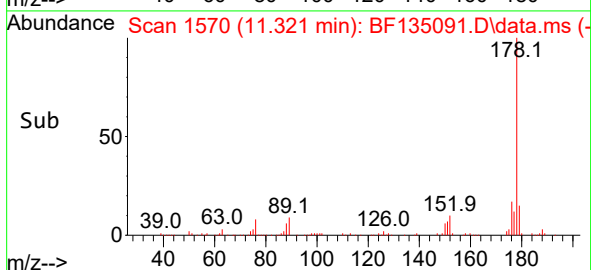
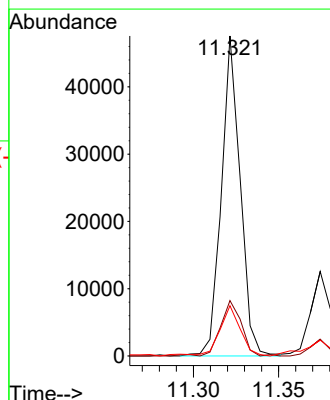
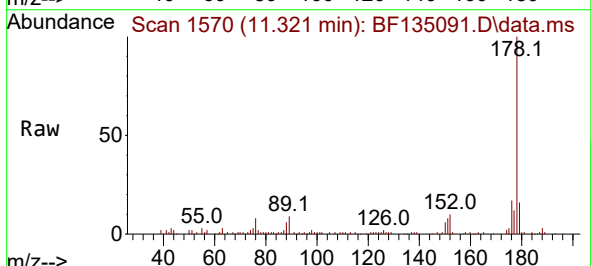
Tgt Ion:178 Resp: 36620

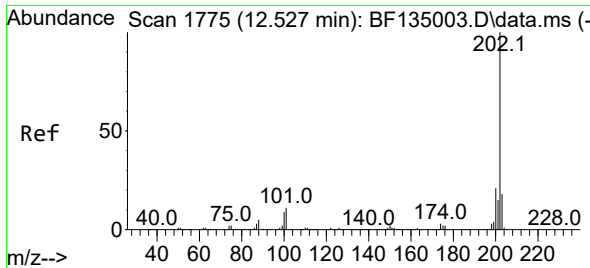
Ion Ratio Lower Upper

178 100

176 17.3 15.9 23.9

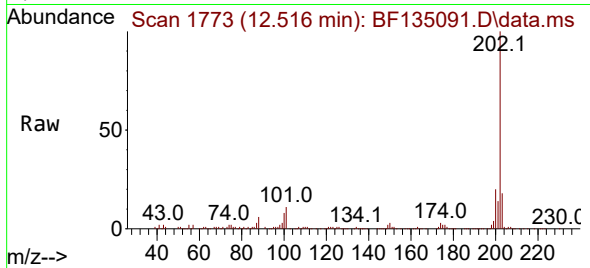
179 15.7 12.5 18.7





#75
Fluoranthene
Concen: 5.049 ng
RT: 12.516 min Scan# 1773
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

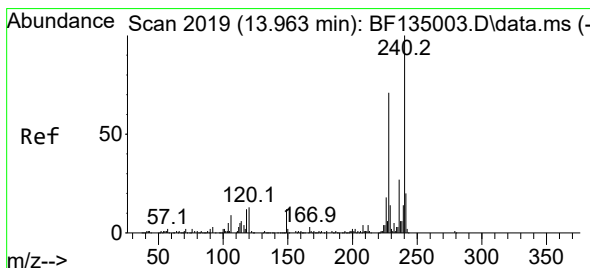
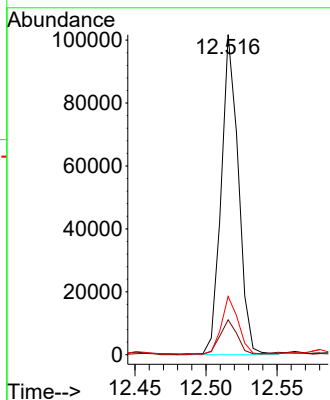
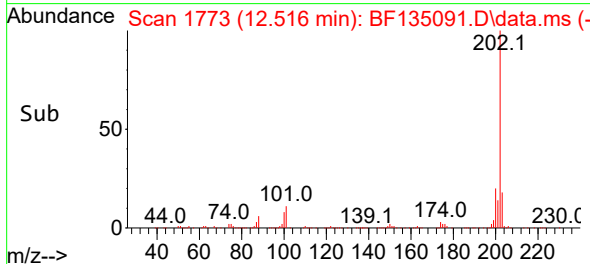
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



Tgt Ion:202 Resp: 8578
Ion Ratio Lower Upper
202 100
101 10.9 0.0 31.5
203 18.2 0.0 37.8

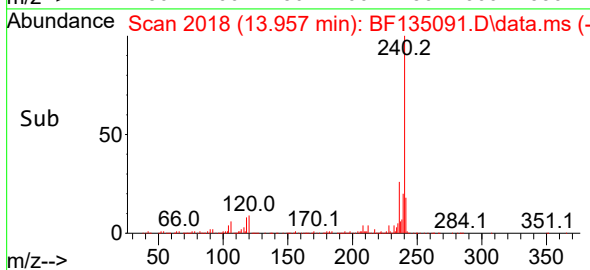
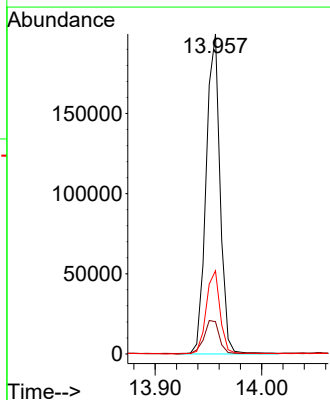
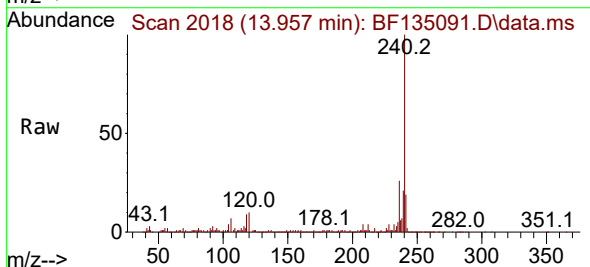
Manual Integrations
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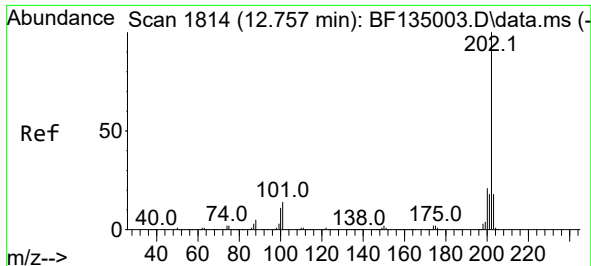
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

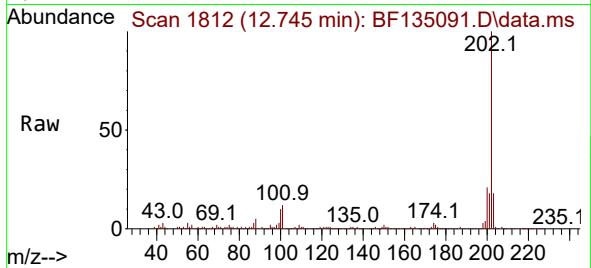
Tgt Ion:240 Resp: 182326
Ion Ratio Lower Upper
240 100
120 10.1 10.2 15.2#
236 26.0 21.3 31.9





#78
Pyrene
Concen: 4.581 ng
RT: 12.745 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

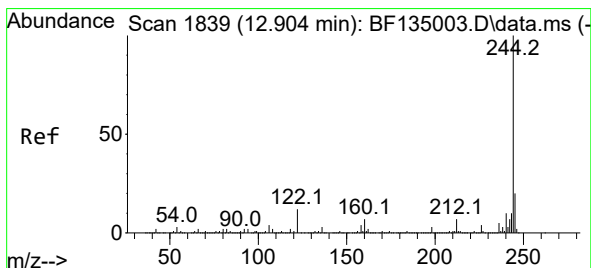
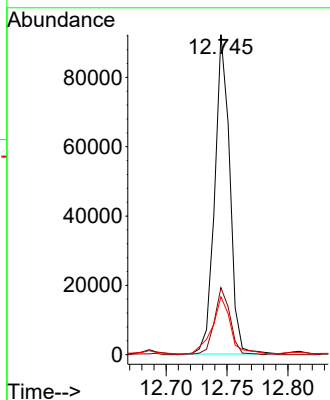
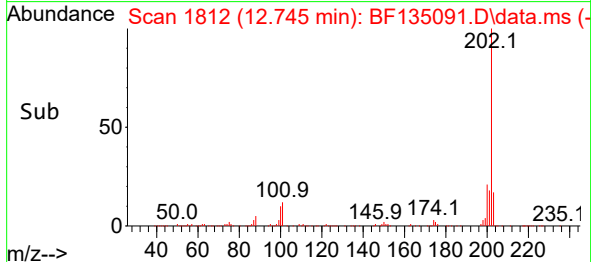
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



Tgt Ion:202 Resp: 7929
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 18.1 14.2 21.2

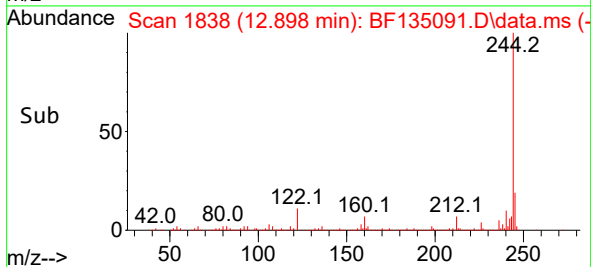
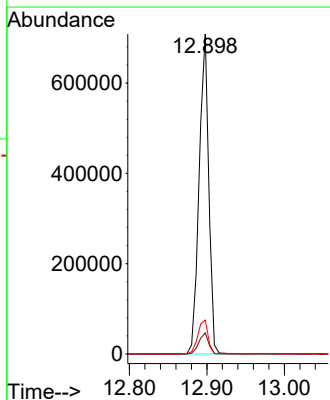
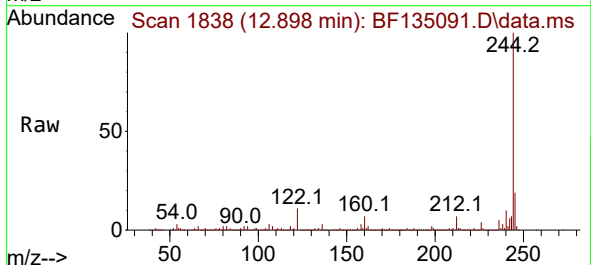
Manual Integrations
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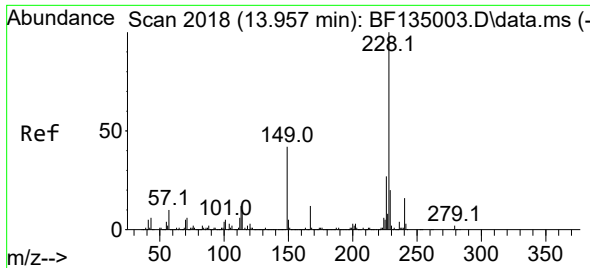
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#79
Terphenyl-d14
Concen: 54.665 ng
RT: 12.898 min Scan# 1838
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:244 Resp: 610748
Ion Ratio Lower Upper
244 100
212 6.6 5.6 8.4
122 10.6 9.8 14.6





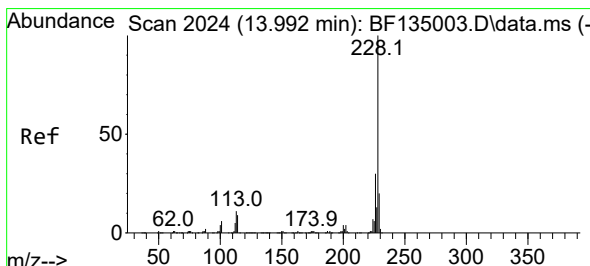
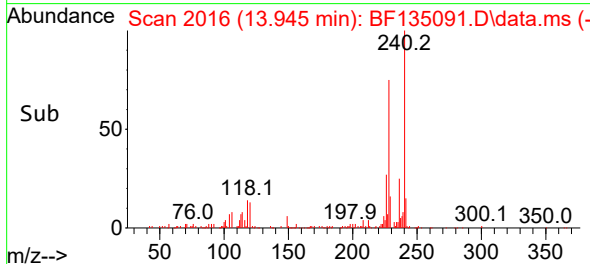
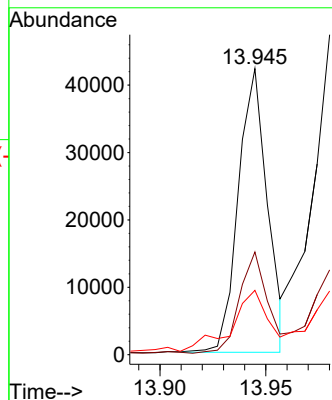
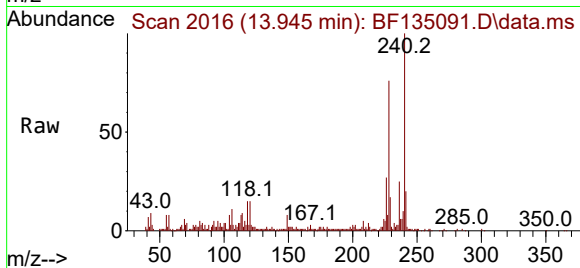
#81
Benzo(a)anthracene
Concen: 3.233 ng m
RT: 13.945 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

Tgt Ion:228 Resp: 4020
Ion Ratio Lower Upper
228 100
226 35.9 21.6 32.4
229 22.5 15.6 23.4

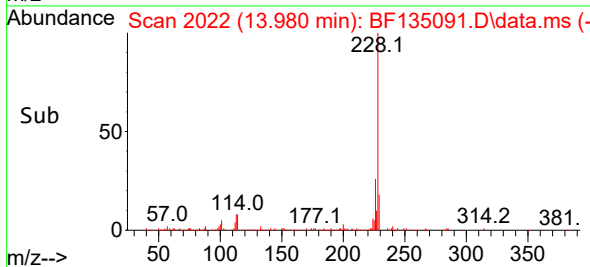
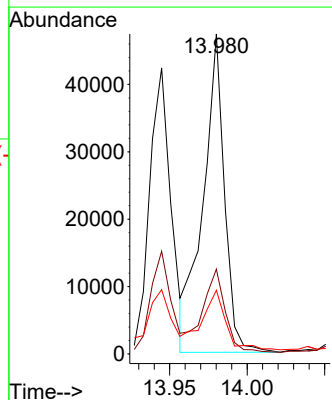
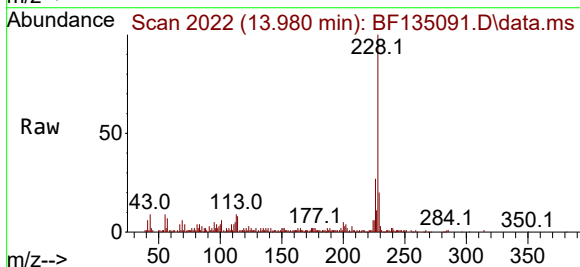
Manual Integrations
APPROVED

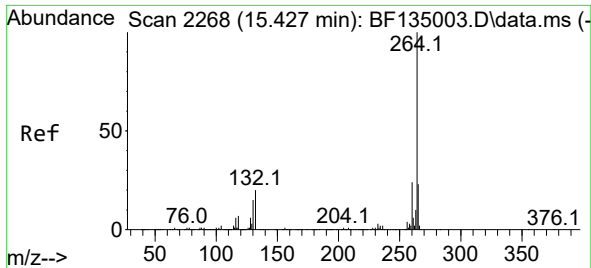
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#83
Chrysene
Concen: 3.727 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

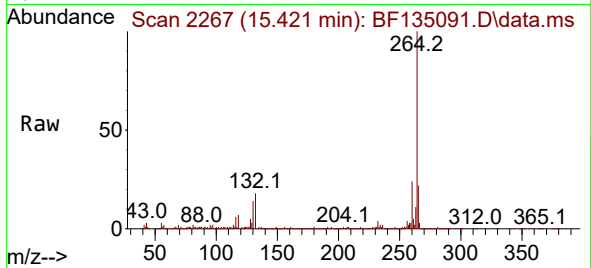
Tgt Ion:228 Resp: 45554
Ion Ratio Lower Upper
228 100
226 26.5 24.2 36.4
229 19.9 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 21512
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

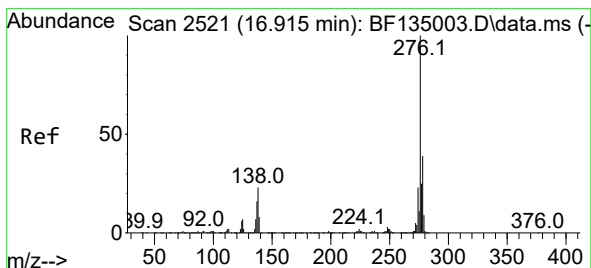
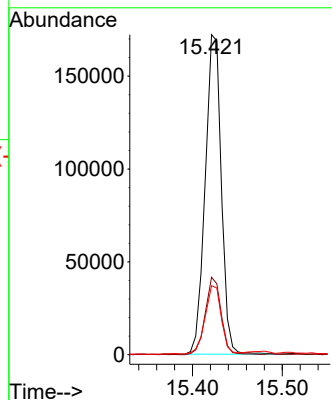
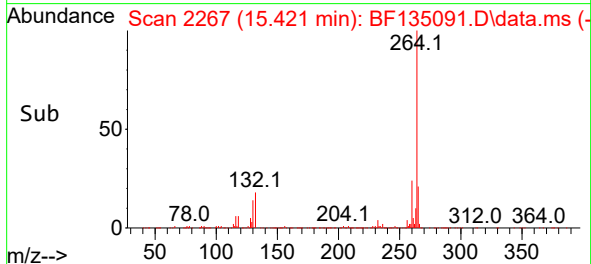
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



Tgt Ion:264 Resp: 21512
Ion Ratio Lower Upper
264 100
260 24.2 19.0 28.6
265 21.5 18.2 27.2

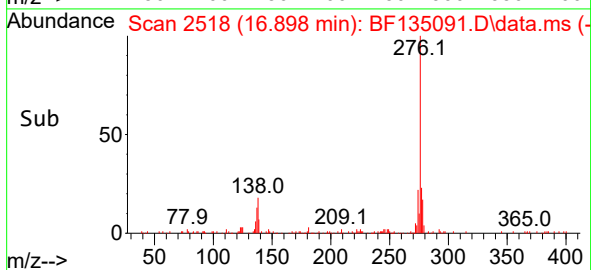
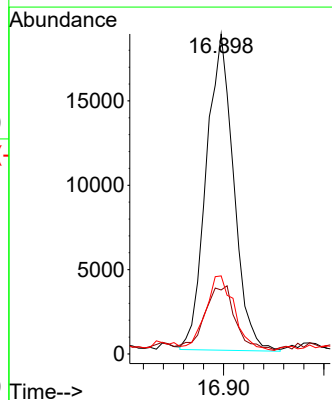
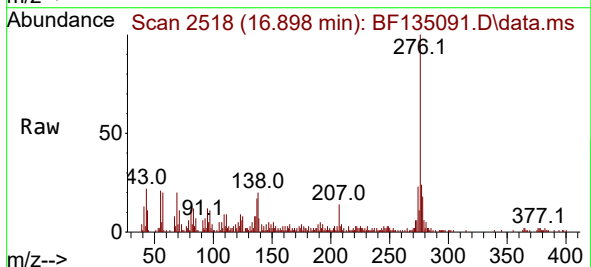
Manual Integrations
APPROVED

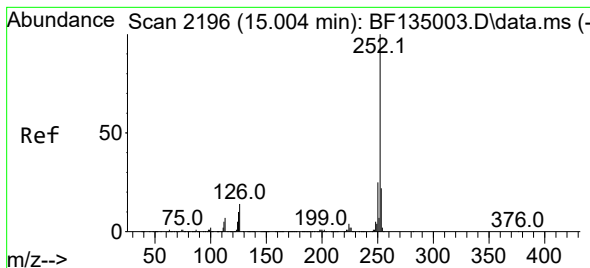
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.453 ng
RT: 16.898 min Scan# 2518
Delta R.T. -0.018 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:276 Resp: 35541
Ion Ratio Lower Upper
276 100
138 22.4 20.2 30.2
277 25.0 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 5.337 ng m

RT: 14.998 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

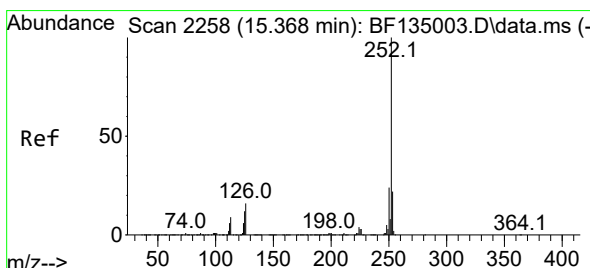
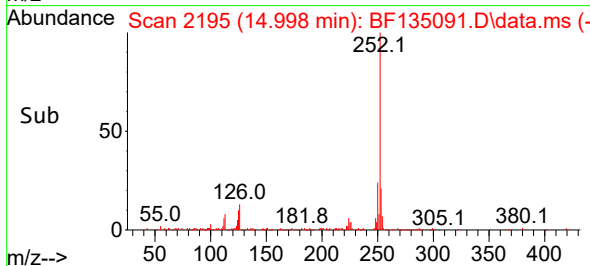
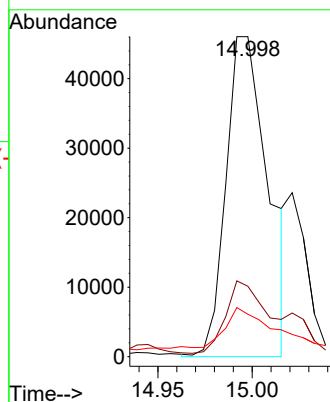
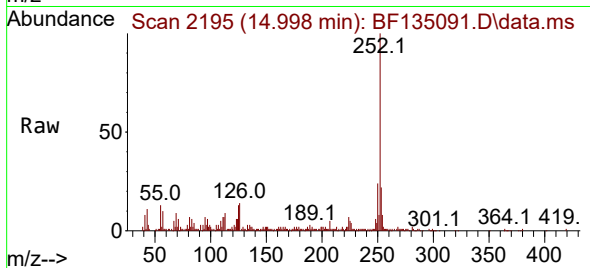
Tgt Ion:252 Resp: 71432
 Ion Ratio Lower Upper
 252 100
 253 22.0 17.8 26.8
 125 13.3 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#90

Benzo(a)pyrene

Concen: 3.737 ng

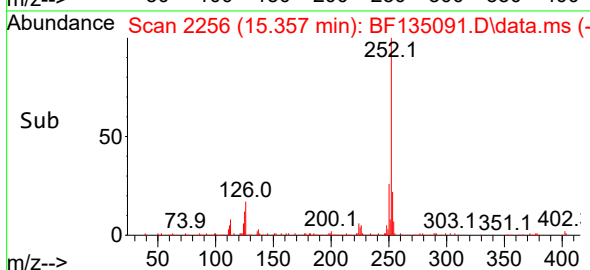
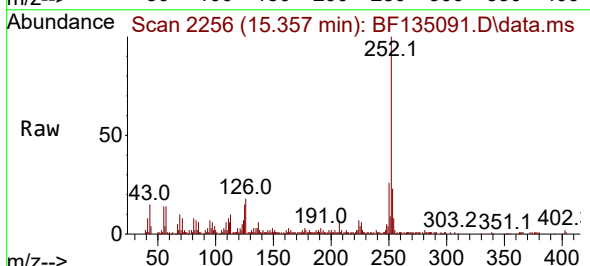
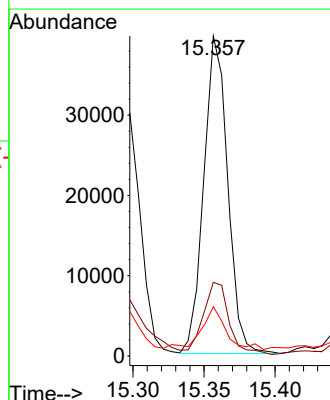
RT: 15.357 min Scan# 2256

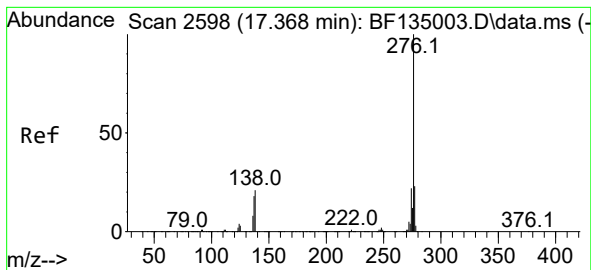
Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

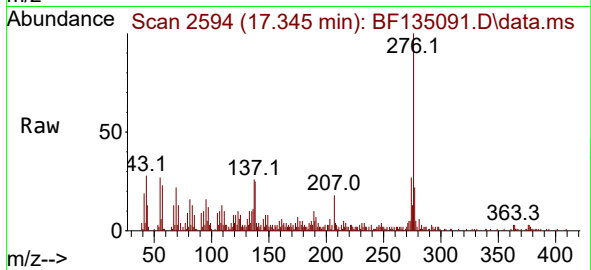
Tgt Ion:252 Resp: 46464
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 15.4 9.5 14.3





#92
Benzo(g,h,i)perylene
Concen: 2.688 ng
RT: 17.345 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



Tgt Ion:	276	Resp:	3280
Ion Ratio	Lower	Upper	
276	100		
277	22.2	18.5	27.7
138	24.7	17.1	25.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

