

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
 Data File : BF135092.D
 Acq On : 05 Sep 2023 13:19
 Operator : CG\JU
 Sample : 04212-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-3

Manual Integrations
 APPROVED

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

Quant Time: Sep 05 13:41:29 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	101788	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	385127	20.000	ng	0.00
39) Acenaphthene-d10	9.804	164	184595	20.000	ng	-0.01
64) Phenanthrene-d10	11.298	188	300022	20.000	ng	-0.01
76) Chrysene-d12	13.951	240	187890	20.000	ng	-0.01
86) Perylene-d12	15.427	264	224958	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	520679	79.012	ng	0.00
7) Phenol-d6	6.410	99	630409	76.750	ng	0.00
23) Nitrobenzene-d5	7.334	82	397685	58.013	ng	-0.01
42) 2,4,6-Tribromophenol	10.598	330	140986	71.999	ng	-0.01
45) 2-Fluorobiphenyl	9.128	172	567823	50.081	ng	-0.01
79) Terphenyl-d14	12.892	244	358736	31.158	ng	-0.01
Target Compounds						
						Qvalue
75) Fluoranthene	12.516	202	70927	4.532	ng	99
78) Pyrene	12.745	202	71797	4.025	ng	99
81) Benzo(a)anthracene	13.945	228	43945m	3.429	ng	
83) Chrysene	13.980	228	50422	4.003	ng	96
87) Indeno(1,2,3-cd)pyrene	16.898	276	34708	2.291	ng	97
88) Benzo(b)fluoranthene	14.998	252	75614m	5.402	ng	
89) Benzo(k)fluoranthene	15.021	252	27337m	2.022	ng	
90) Benzo(a)pyrene	15.357	252	55745	4.287	ng	95
92) Benzo(g,h,i)perylene	17.345	276	32610	2.555	ng	94

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

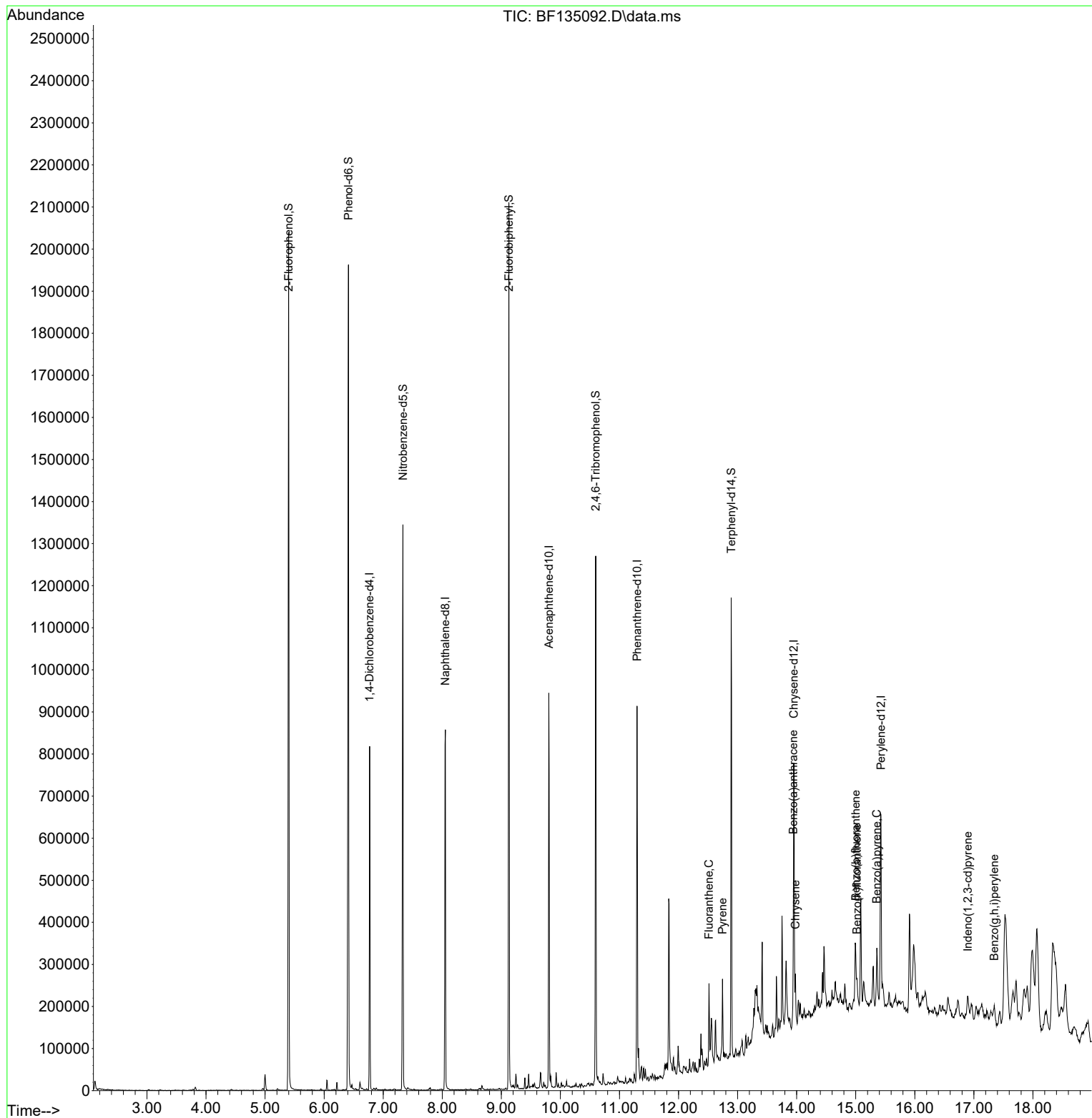
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
Data File : BF135092.D
Acq On : 05 Sep 2023 13:19
Operator : CG\JU
Sample : 04212-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

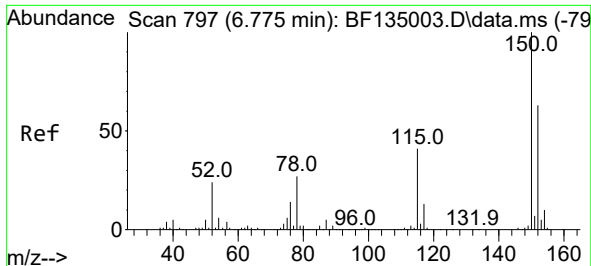
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-3

Quant Time: Sep 05 13:41:29 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

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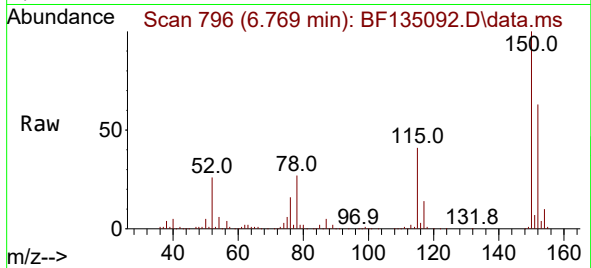
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

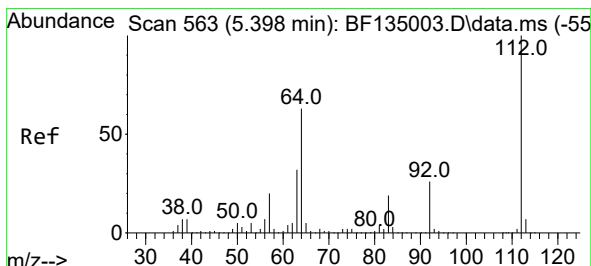
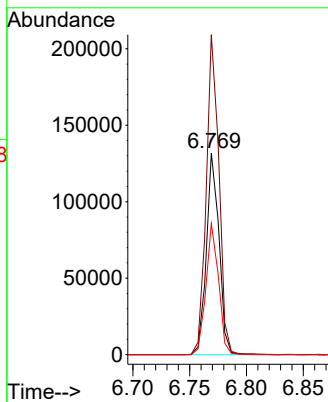
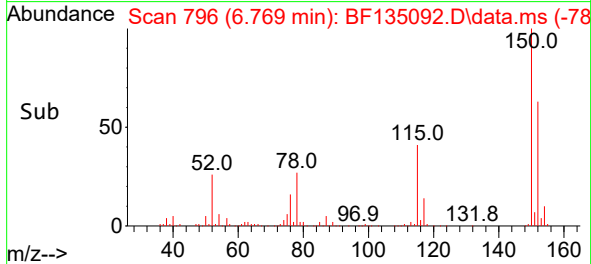
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-3



Tgt Ion:152 Resp: 101788
Ion Ratio Lower Upper
152 100
150 158.8 126.2 189.4
115 65.0 51.2 76.8

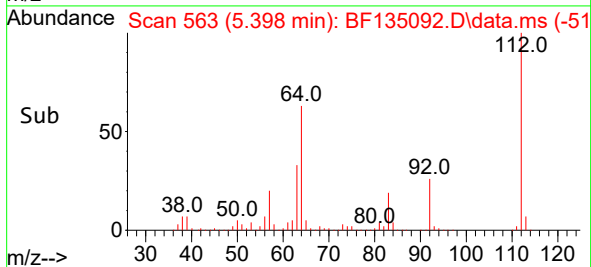
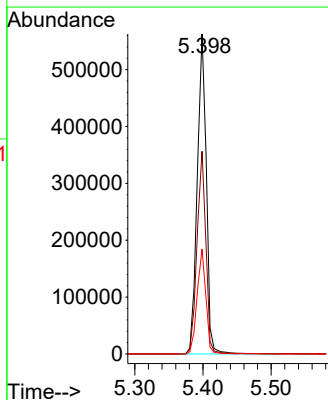
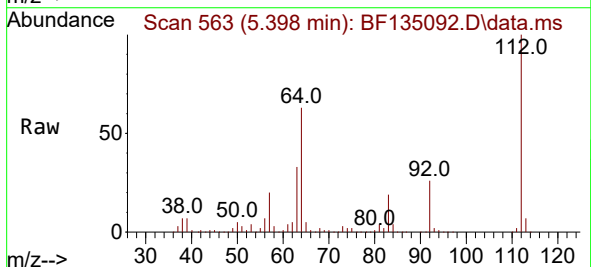
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#5
2-Fluorophenol
Concen: 79.012 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

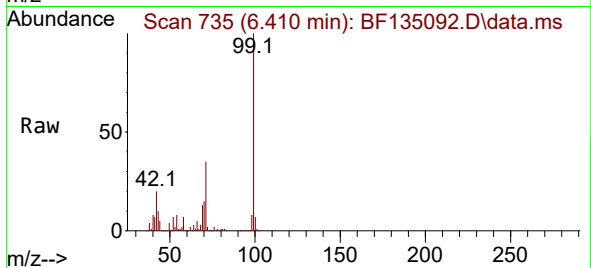
Tgt Ion:112 Resp: 520679
Ion Ratio Lower Upper
112 100
64 63.4 50.5 75.7
63 32.8 25.9 38.9





#7
Phenol-d6
Concen: 76.750 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

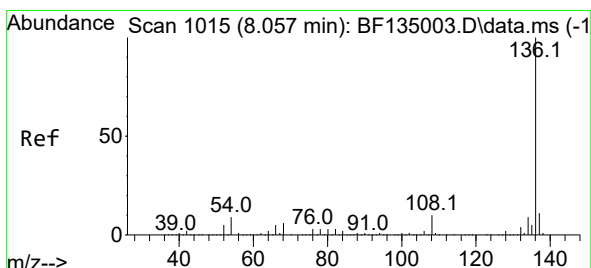
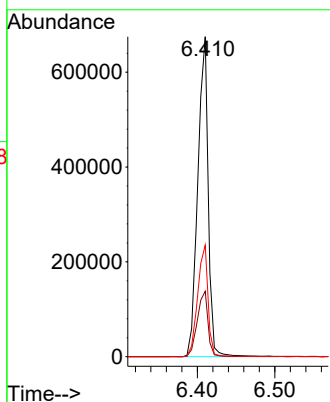
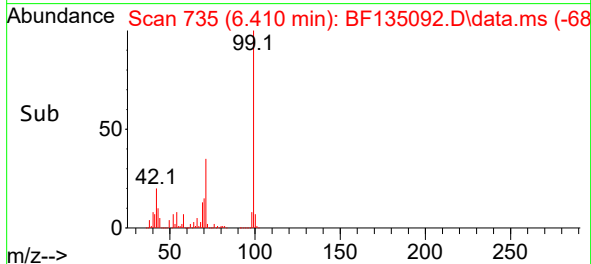
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-3



Tgt Ion: 99 Resp: 630409
Ion Ratio Lower Upper
99 100
42 20.5 16.6 25.0
71 34.9 27.0 40.6

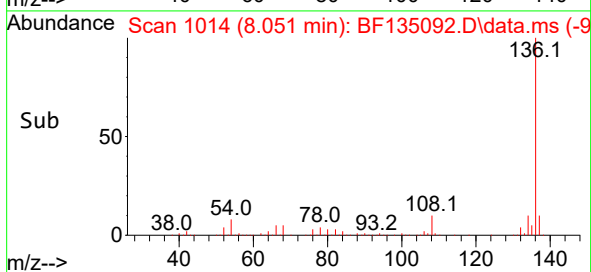
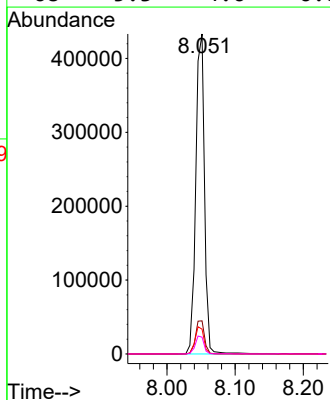
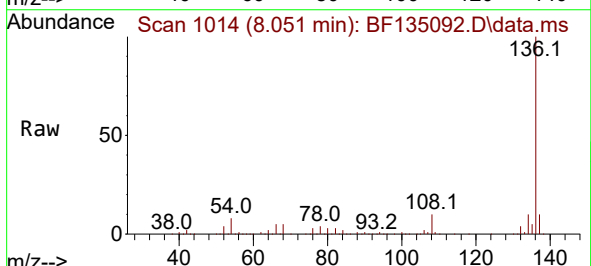
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Supervised By :mohammad ahmed 09/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

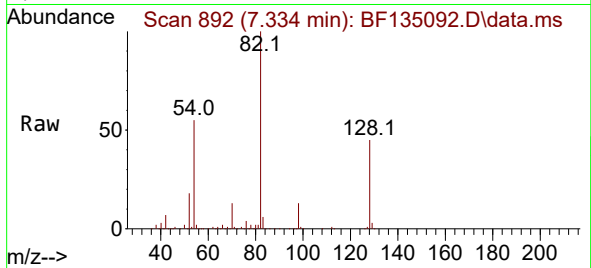
Tgt Ion:136 Resp: 385127
Ion Ratio Lower Upper
136 100
137 10.4 8.8 13.2
54 7.8 7.0 10.4
68 5.3 4.6 6.8





#23
Nitrobenzene-d5
Concen: 58.013 ng
RT: 7.334 min Scan# 894
Delta R.T. -0.012 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

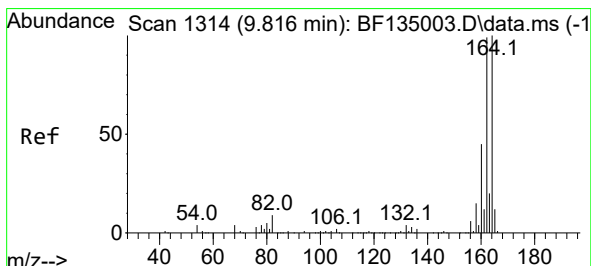
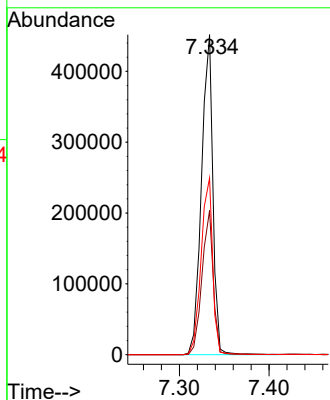
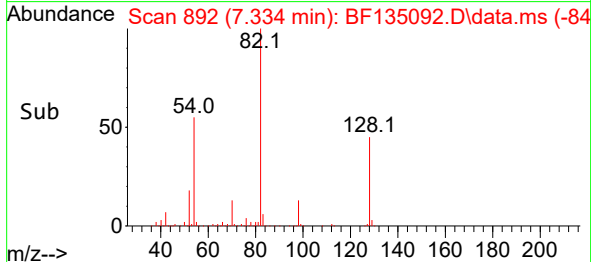
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-3



Tgt Ion: 82 Resp: 397685
Ion Ratio Lower Upper
82 100
128 45.1 37.8 56.8
54 55.2 45.0 67.6

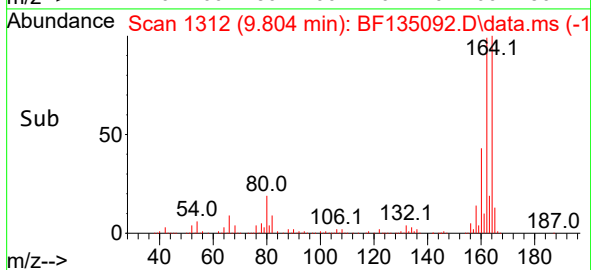
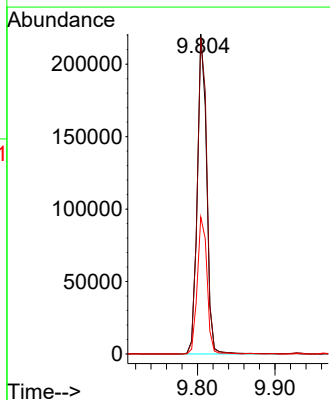
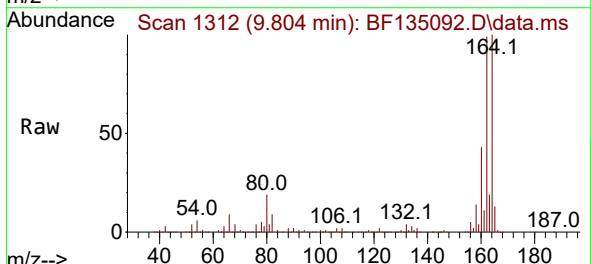
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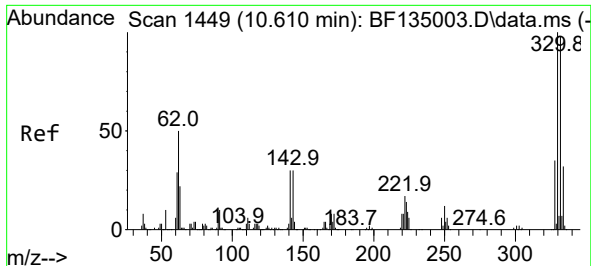
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

Tgt Ion:164 Resp: 184595
Ion Ratio Lower Upper
164 100
162 98.9 79.5 119.3
160 42.8 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 71.999 ng

RT: 10.598 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF135092.D

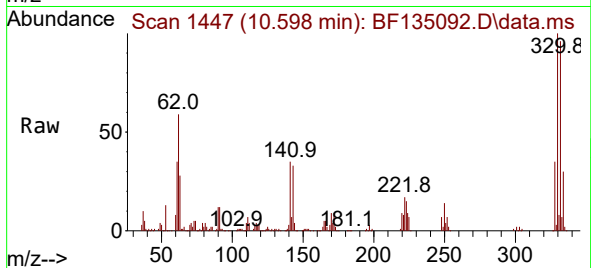
Acq: 05 Sep 2023 13:19

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-3



Tgt Ion:330 Resp: 140980

Ion Ratio Lower Upper

330 100

332 94.5 77.6 116.4

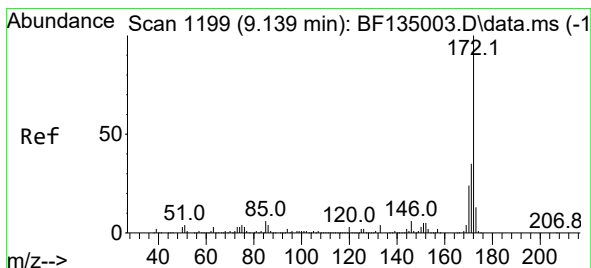
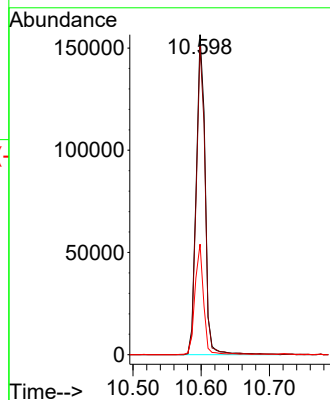
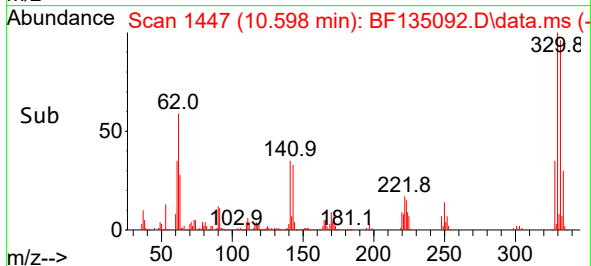
141 33.6 26.3 39.5

Manual Integrations

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#45

2-Fluorobiphenyl

Concen: 50.081 ng

RT: 9.128 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

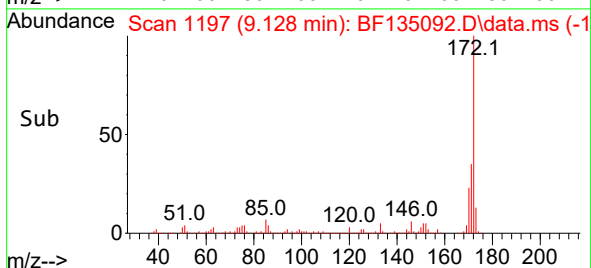
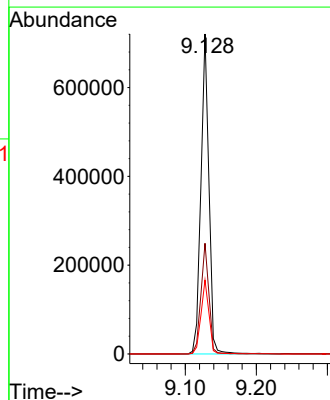
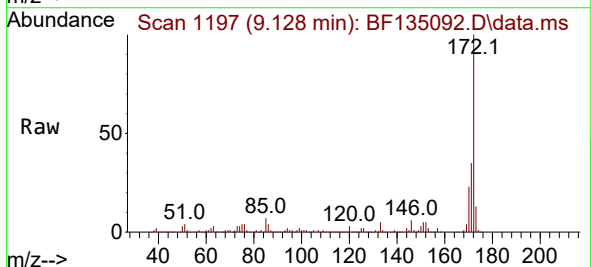
Tgt Ion:172 Resp: 567823

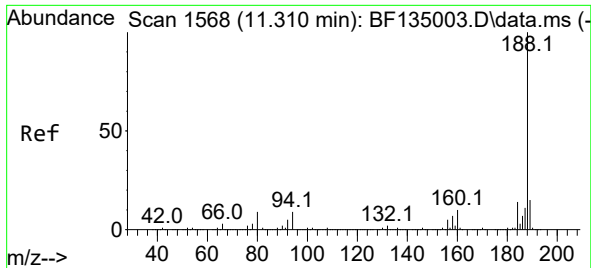
Ion Ratio Lower Upper

172 100

171 34.6 28.2 42.2

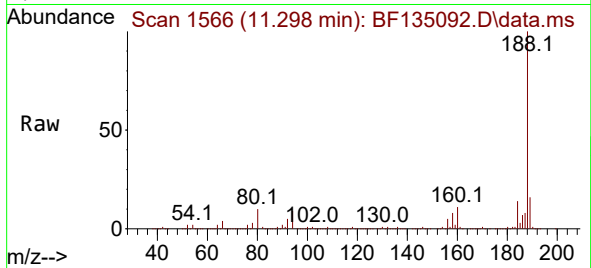
170 23.1 19.0 28.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19

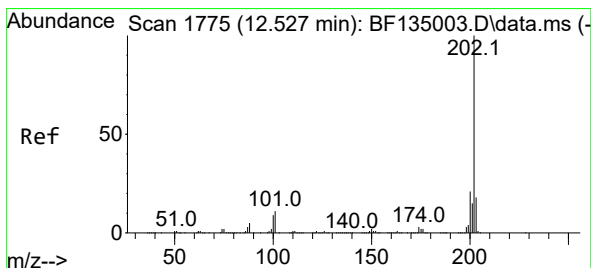
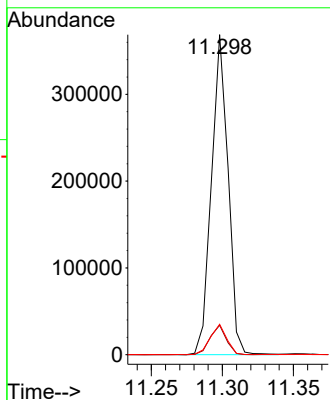
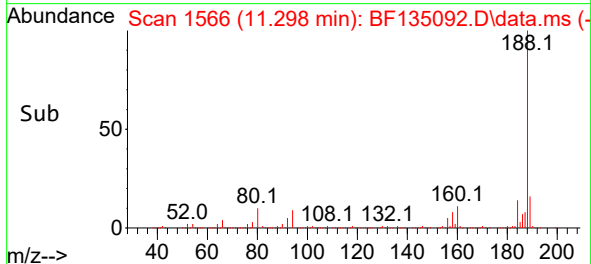
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-3



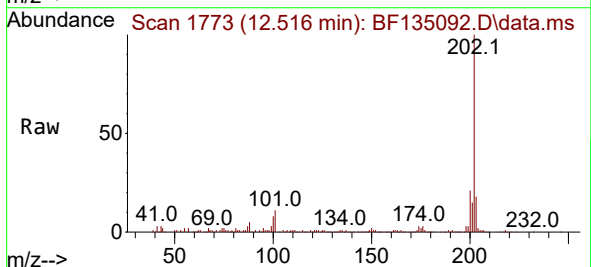
Tgt Ion:188 Resp: 30002
Ion Ratio Lower Upper
188 100
94 9.2 7.0 10.4
80 9.5 7.4 11.2

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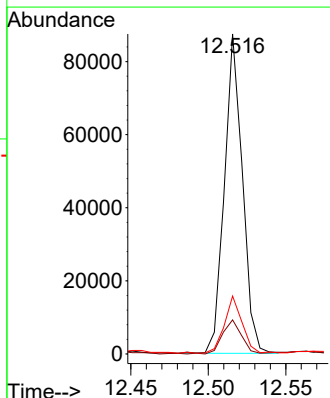
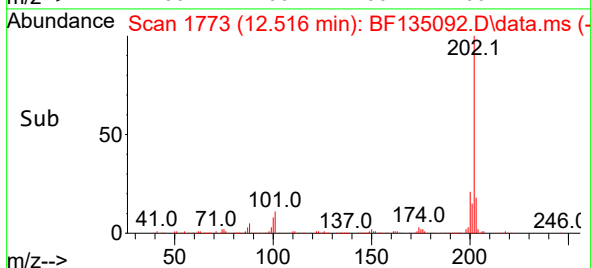
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

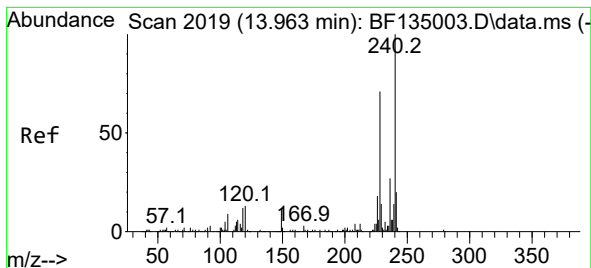


#75
Fluoranthene
Concen: 4.532 ng
RT: 12.516 min Scan# 1773
Delta R.T. -0.012 min
Lab File: BF135092.D
Acq: 05 Sep 2023 13:19



Tgt Ion:202 Resp: 70927
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.5
203 18.1 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.951 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-3

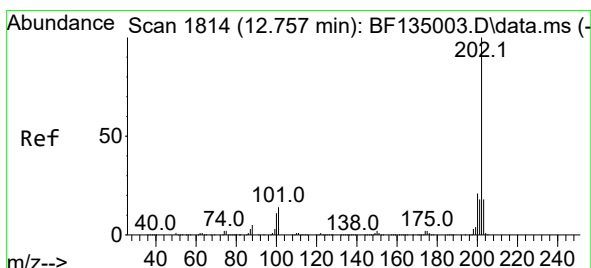
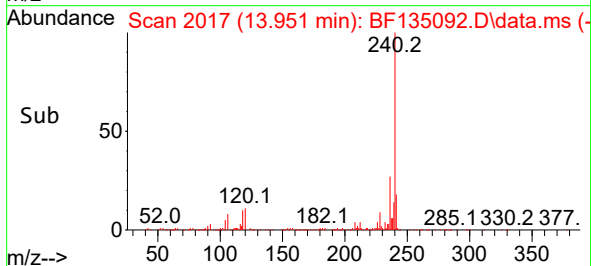
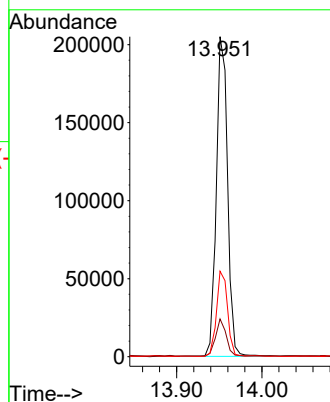
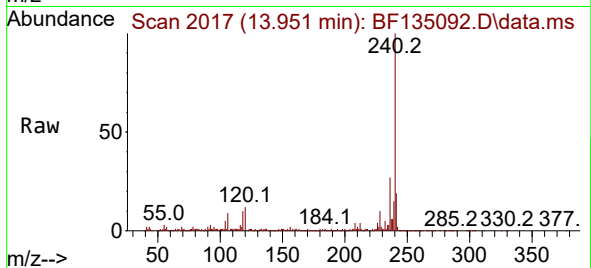
Tgt Ion:240 Resp: 187890
 Ion Ratio Lower Upper
 240 100
 120 11.8 10.2 15.2
 236 26.7 21.3 31.9

Manual Integrations

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Supervised By :mohammad ahmed 09/07/2023



#78

Pyrene

Concen: 4.025 ng

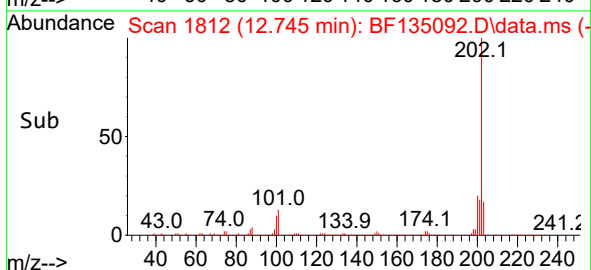
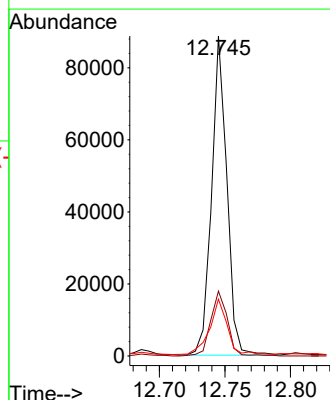
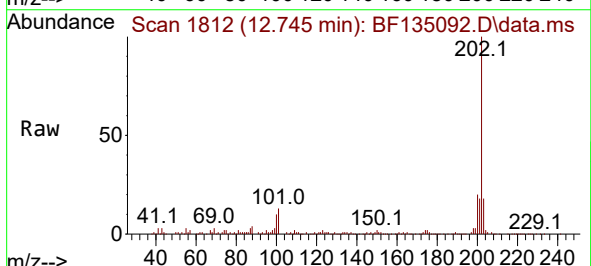
RT: 12.745 min Scan# 1812

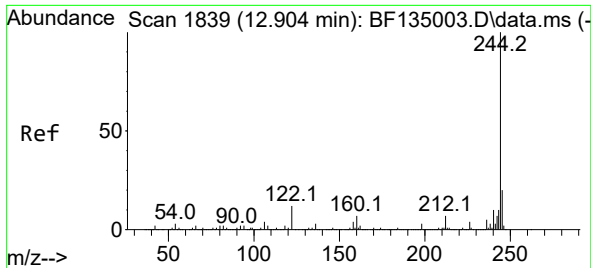
Delta R.T. -0.012 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

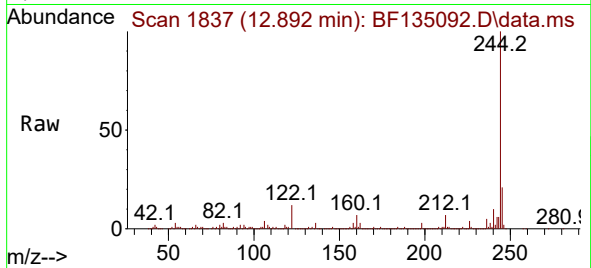
Tgt Ion:202 Resp: 71797
 Ion Ratio Lower Upper
 202 100
 200 20.3 17.0 25.6
 203 17.8 14.2 21.2





#79
 Terphenyl-d14
 Concen: 31.158 ng
 RT: 12.892 min Scan# 1837
 Delta R.T. -0.012 min
 Lab File: BF135092.D
 Acq: 05 Sep 2023 13:19

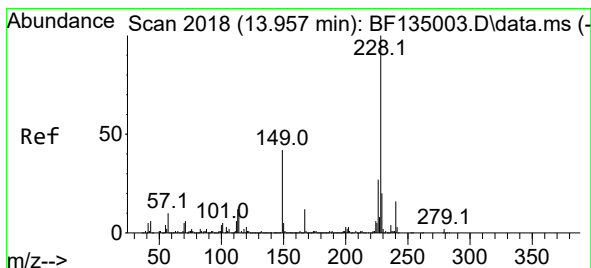
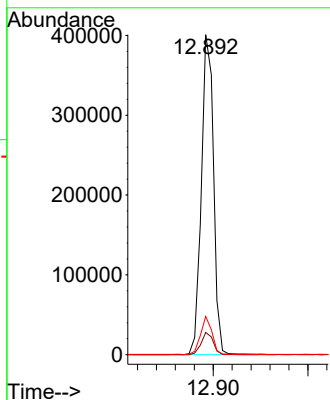
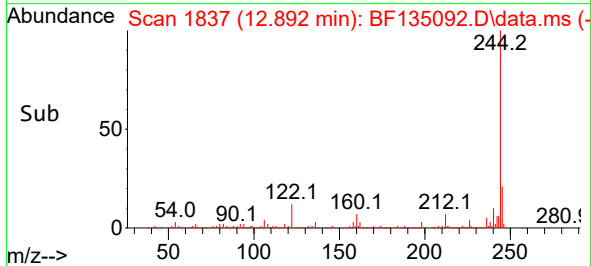
Instrument :
 BNA_F
 ClientSampleId :
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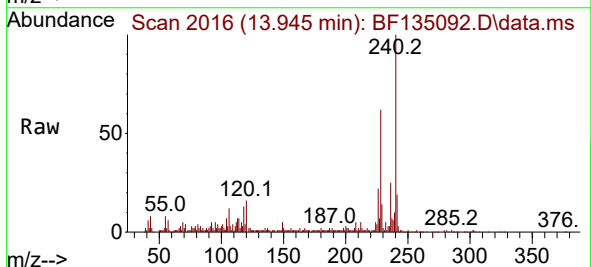
Tgt Ion:244 Resp: 358730
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 12.0 9.8 14.6

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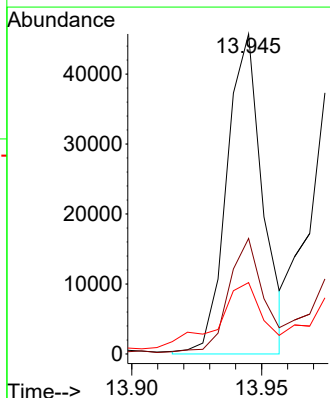
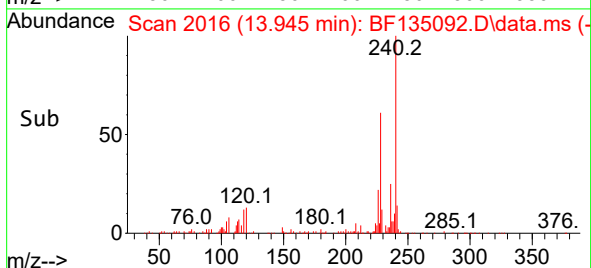
Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

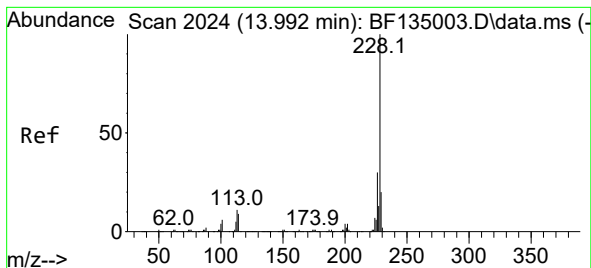


#81
 Benzo(a)anthracene
 Concen: 3.429 ng m
 RT: 13.945 min Scan# 2016
 Delta R.T. -0.012 min
 Lab File: BF135092.D
 Acq: 05 Sep 2023 13:19



Tgt Ion:228 Resp: 43945
 Ion Ratio Lower Upper
 228 100
 226 36.1 21.6 32.4#
 229 22.3 15.6 23.4





#83

Chrysene

Concen: 4.003 ng

RT: 13.980 min Scan# 2022

Delta R.T. -0.012 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-3

Tgt Ion:228 Resp: 5042

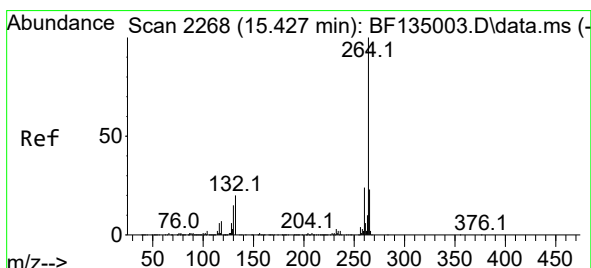
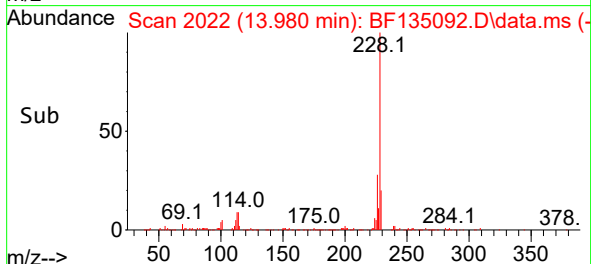
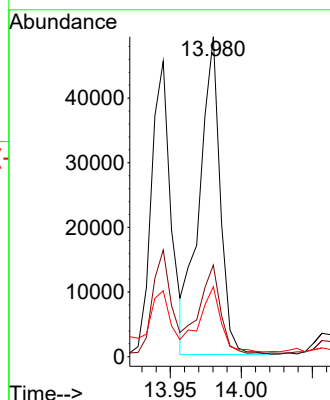
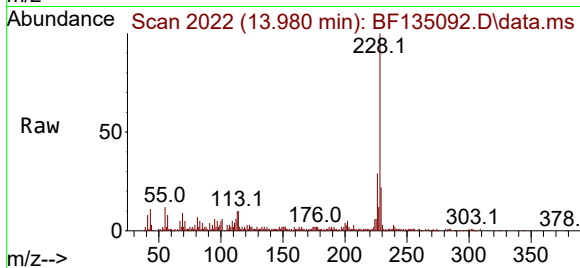
Ion	Ratio	Lower	Upper
228	100		
226	28.7	24.2	36.4
229	21.9	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 2268

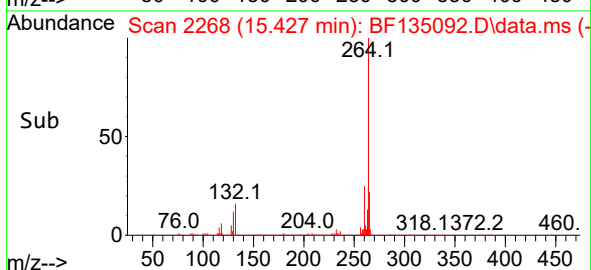
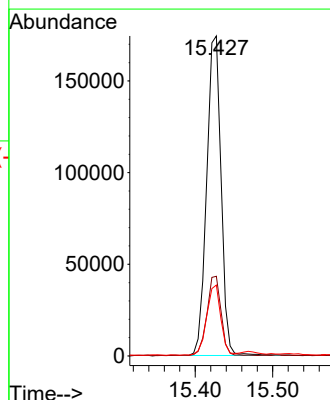
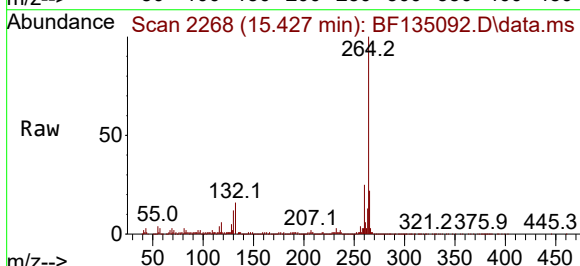
Delta R.T. 0.000 min

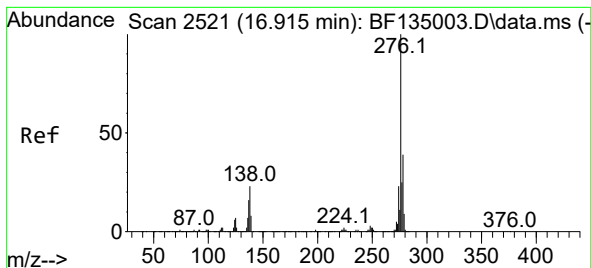
Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Tgt Ion:264 Resp: 224958

Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.0	28.6
265	22.1	18.2	27.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.291 ng

RT: 16.898 min Scan# 2118

Delta R.T. -0.018 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-3

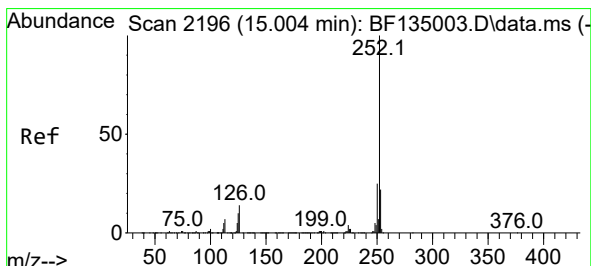
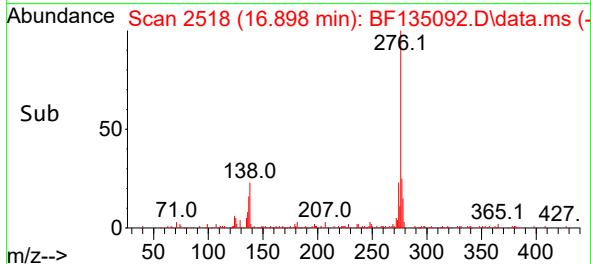
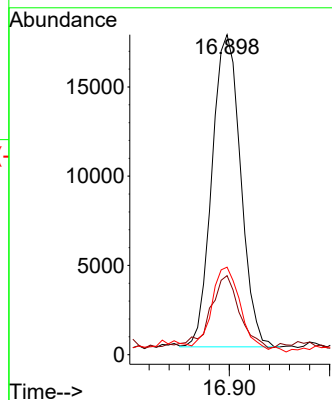
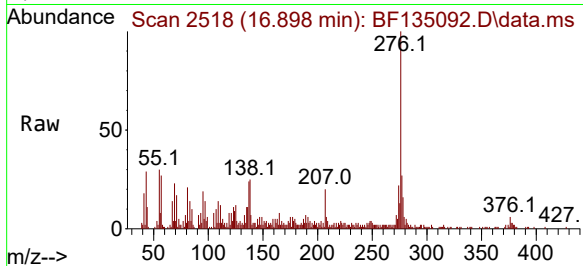
Tgt Ion:	276	Resp:	34708
Ion Ratio	Lower	Upper	
276	100		
138	24.6	20.2	30.2
277	28.1	20.4	30.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#88

Benzo(b)fluoranthene

Concen: 5.402 ng m

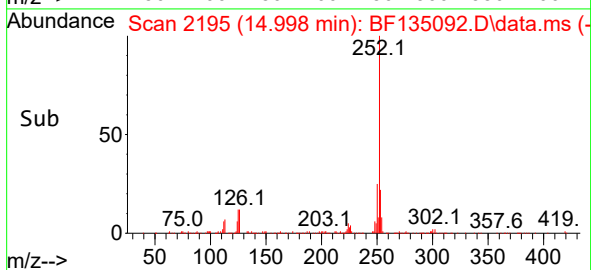
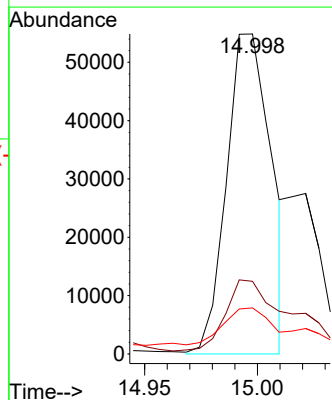
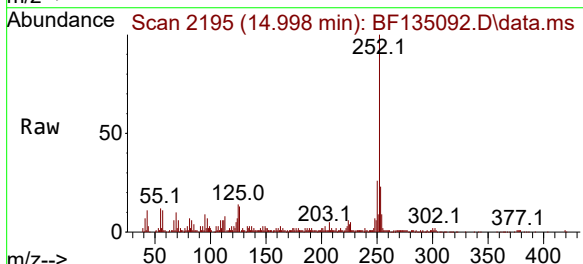
RT: 14.998 min Scan# 2195

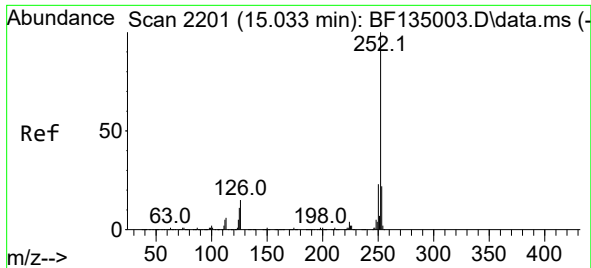
Delta R.T. -0.006 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Tgt Ion:	252	Resp:	75614
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.8	26.8
125	14.4	8.4	12.6





#89

Benzo(k)fluoranthene

Concen: 2.022 ng m

RT: 15.021 min Scan# 2199

Delta R.T. -0.012 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-3

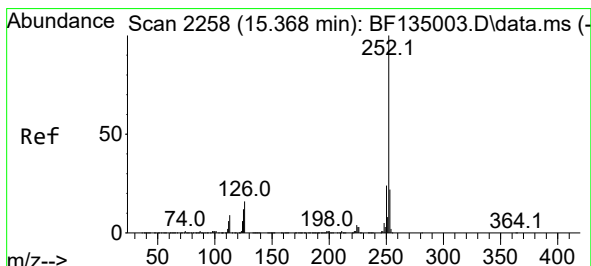
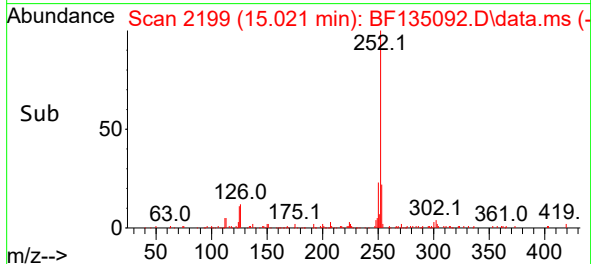
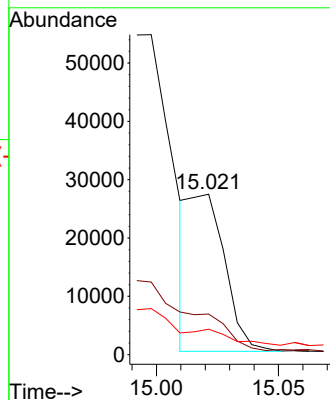
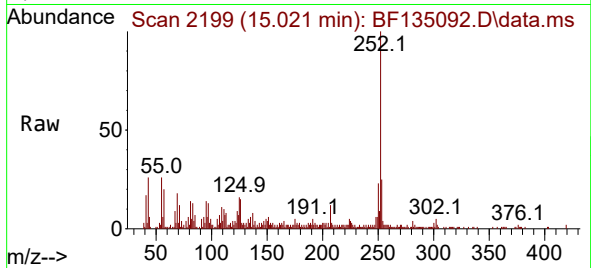
Tgt Ion:	252	Resp:	2733
Ion Ratio	Lower	Upper	
252	100		
253	25.3	17.4	26.0
125	15.8	8.5	12.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#90

Benzo(a)pyrene

Concen: 4.287 ng

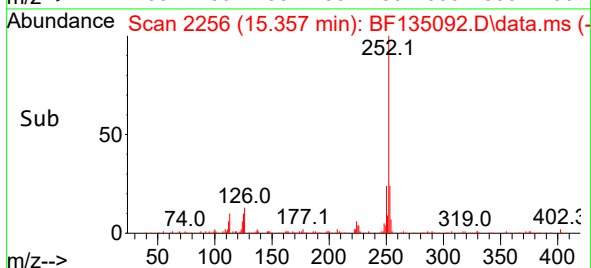
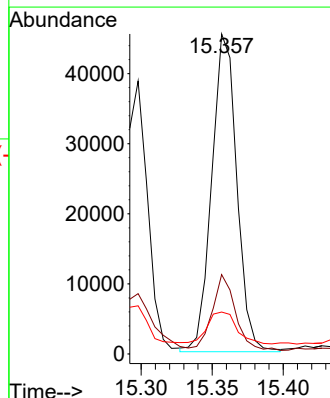
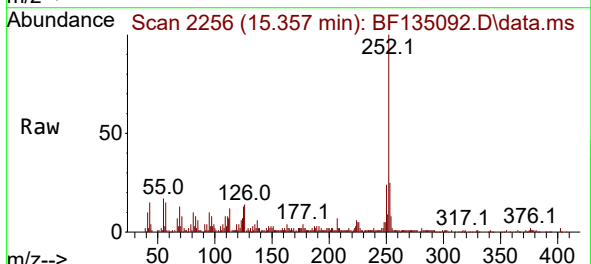
RT: 15.357 min Scan# 2256

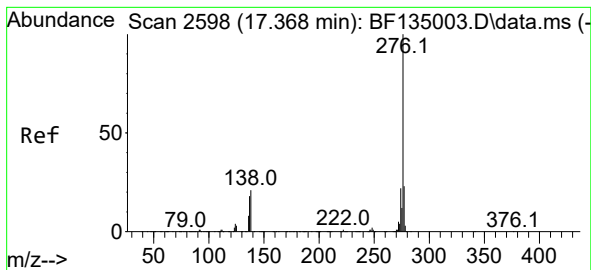
Delta R.T. -0.012 min

Lab File: BF135092.D

Acq: 05 Sep 2023 13:19

Tgt Ion:	252	Resp:	55745
Ion Ratio	Lower	Upper	
252	100		
253	24.8	17.4	26.0
125	13.1	9.5	14.3





#92

Benzo(g,h,i)perylene

Concen: 2.555 ng

RT: 17.345 min Scan# 2

Delta R.T. -0.023 min

Lab File: BF135092.D

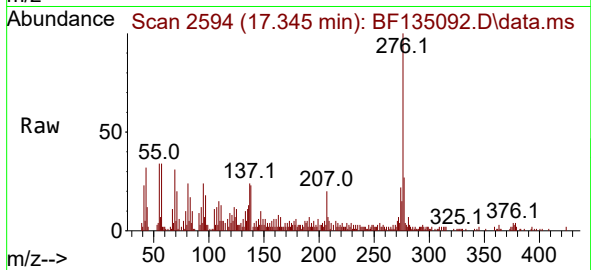
Acq: 05 Sep 2023 13:19

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-3



Tgt Ion: 276 Resp: 32610

Ion Ratio Lower Upper

276 100

277 27.1 18.5 27.7

138 22.8 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023

