

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
 Data File : BF136473.D
 Acq On : 08 Dec 2023 18:09
 Operator : CG\JU
 Sample : 05600-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-1

Quant Time: Dec 08 18:28:20 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/08/2023
 Supervised By :mohammad ahmed 12/14/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	134165	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	517451	20.000	ng	-0.01
39) Acenaphthene-d10	9.827	164	244379	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	374464	20.000	ng	-0.01
76) Chrysene-d12	13.968	240	237829	20.000	ng	#-0.01
86) Perylene-d12	15.451	264	249134	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.439	112	747967	82.333	ng	0.00
7) Phenol-d6	6.439	99	913152	80.564	ng	0.00
23) Nitrobenzene-d5	7.357	82	553754	57.853	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	209308	69.463	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1118155	62.433	ng	-0.01
79) Terphenyl-d14	12.915	244	863818	47.873	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.339	178	99808	4.849	ng	97
75) Fluoranthene	12.533	202	186432	8.643	ng	96
78) Pyrene	12.763	202	173585	7.453	ng	97
81) Benzo(a)anthracene	13.957	228	90444	5.460	ng	96
83) Chrysene	13.992	228	86017	5.277	ng	98
87) Indeno(1,2,3-cd)pyrene	16.939	276	45159	2.609	ng	96
88) Benzo(b)fluoranthene	15.015	252	119986m	7.044	ng	
89) Benzo(k)fluoranthene	15.045	252	40700m	2.535	ng	
90) Benzo(a)pyrene	15.386	252	80990	5.757	ng	99
92) Benzo(g,h,i)perylene	17.392	276	42670	2.932	ng	95

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

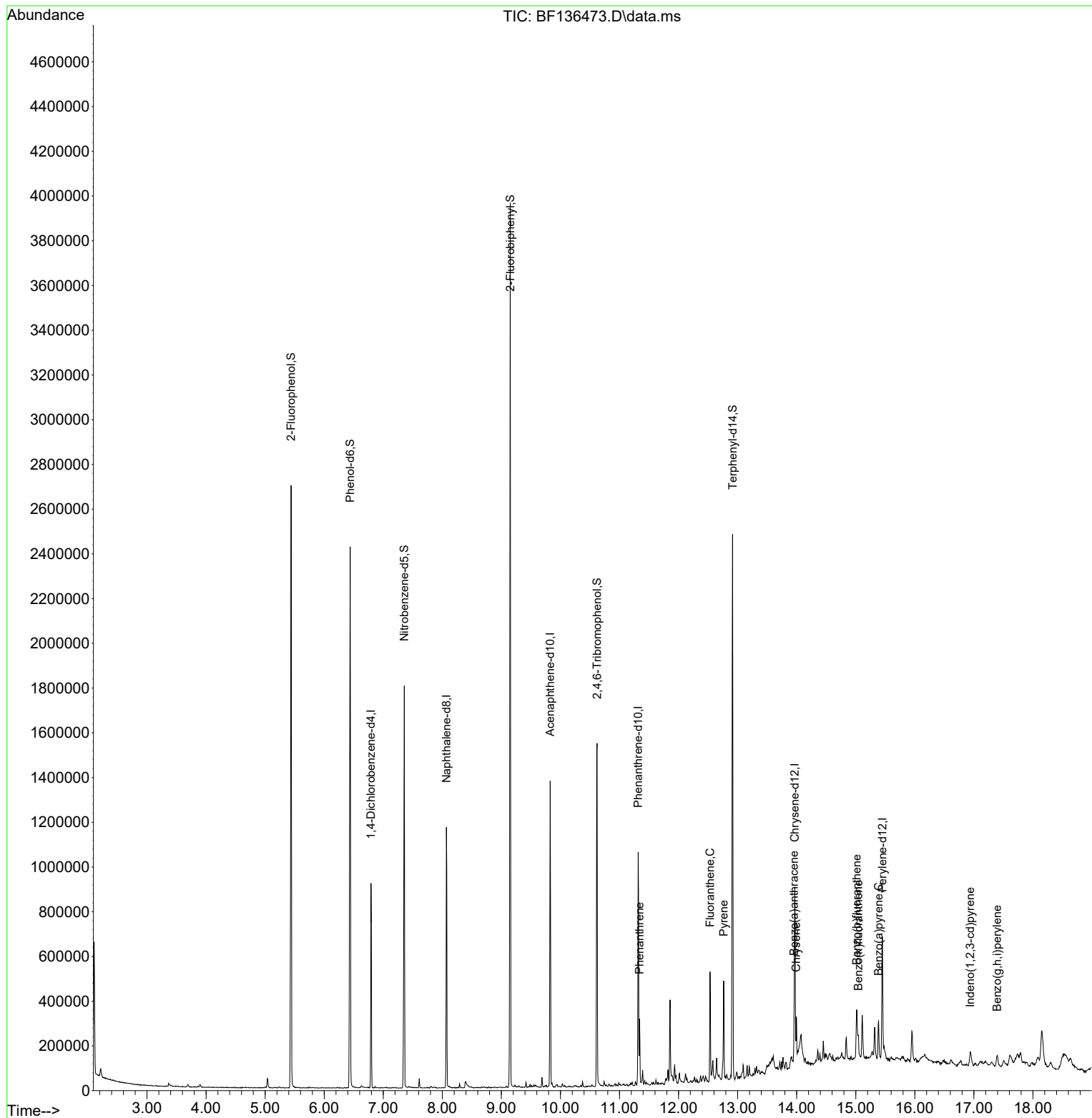
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
Data File : BF136473.D
Acq On : 08 Dec 2023 18:09
Operator : CG\JU
Sample : 05600-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

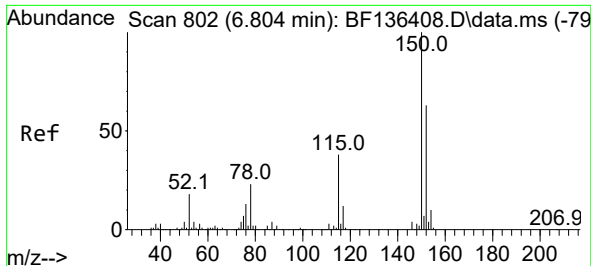
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

Quant Time: Dec 08 18:28:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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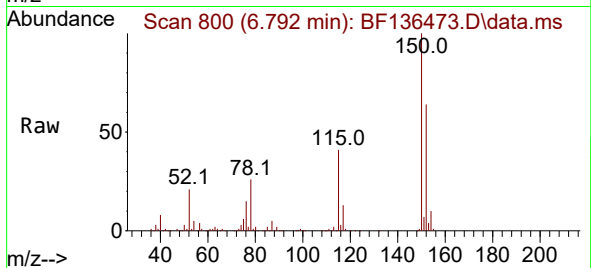
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 802
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

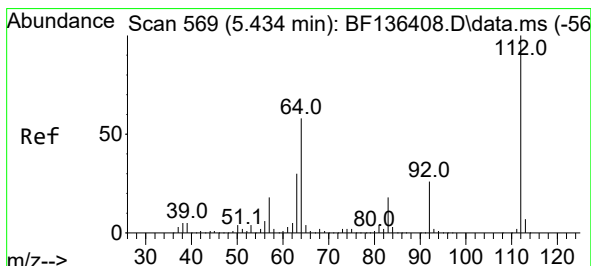
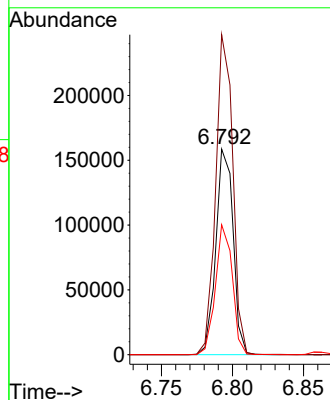
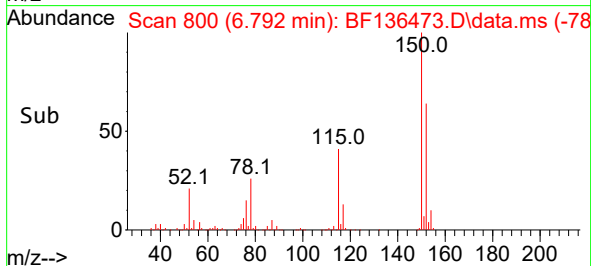
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



Tgt Ion:152 Resp: 13416
Ion Ratio Lower Upper
152 100
150 155.6 126.4 189.6
115 63.1 48.2 72.4

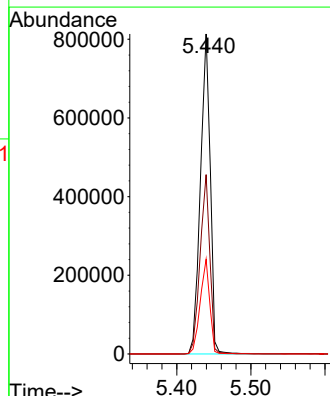
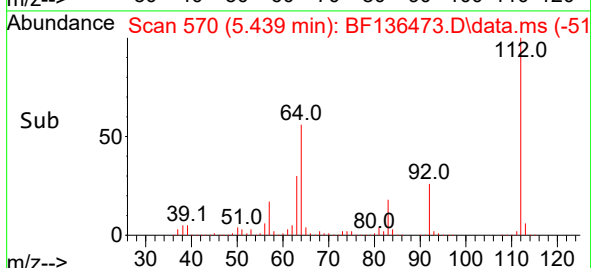
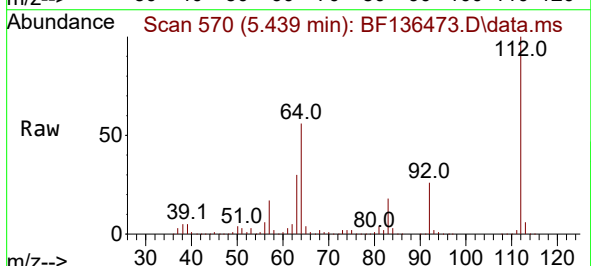
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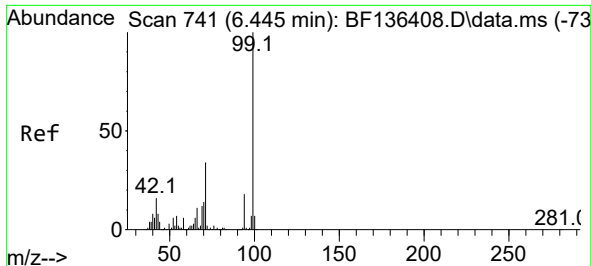
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#5
2-Fluorophenol
Concen: 82.333 ng
RT: 5.439 min Scan# 570
Delta R.T. 0.006 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

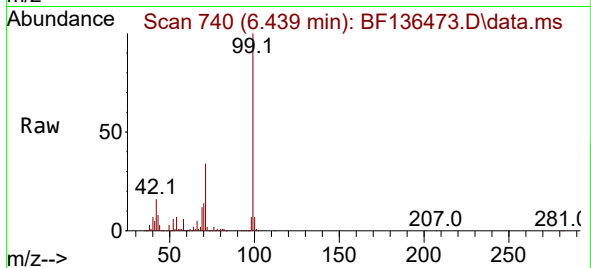
Tgt Ion:112 Resp: 747967
Ion Ratio Lower Upper
112 100
64 56.0 46.5 69.7
63 29.6 23.9 35.9





#7
Phenol-d6
Concen: 80.564 ng
RT: 6.439 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

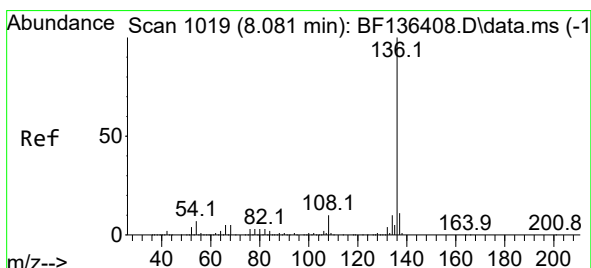
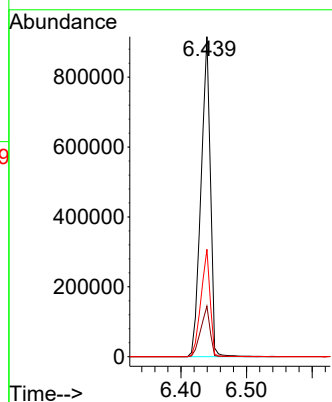
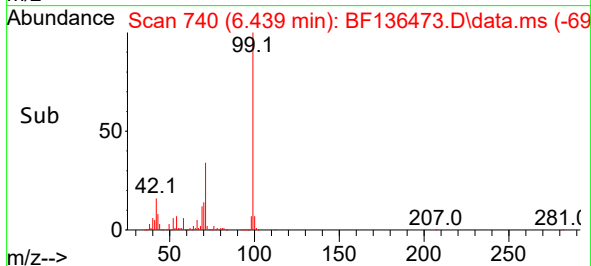
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



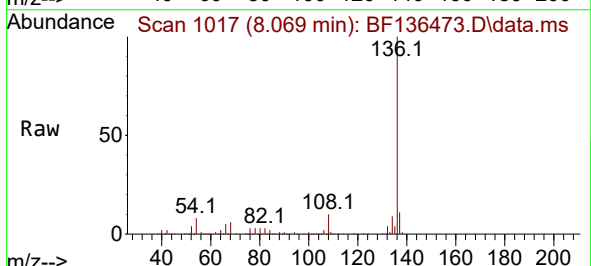
Tgt Ion: 99 Resp: 913152
Ion Ratio Lower Upper
99 100
42 15.8 12.8 19.2
71 33.6 27.0 40.4

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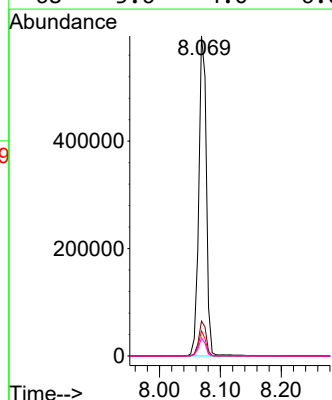
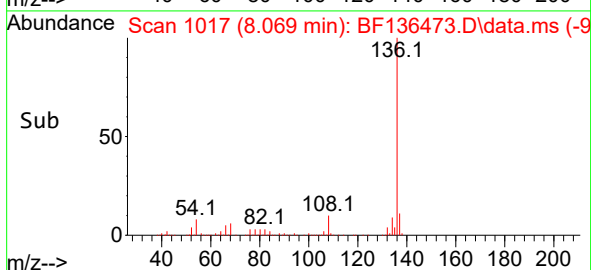
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023

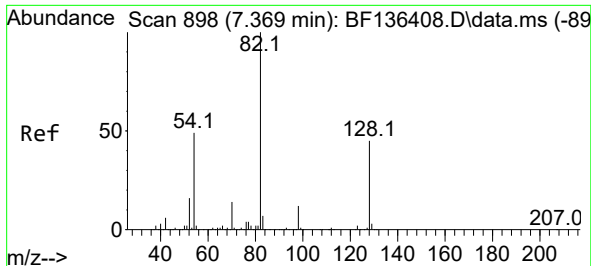


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09



Tgt Ion:136 Resp: 517451
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 7.9 5.7 8.5
68 5.6 4.0 6.0





#23

Nitrobenzene-d5

Concen: 57.853 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136473.D

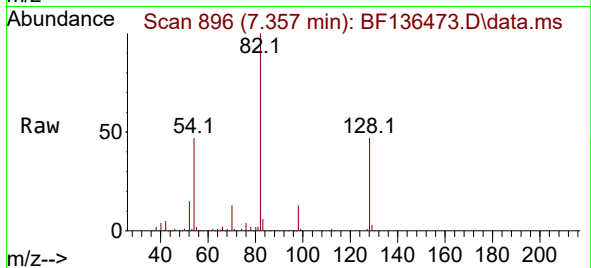
Acq: 08 Dec 2023 18:09

Instrument :

BNA_F

ClientSampleId :

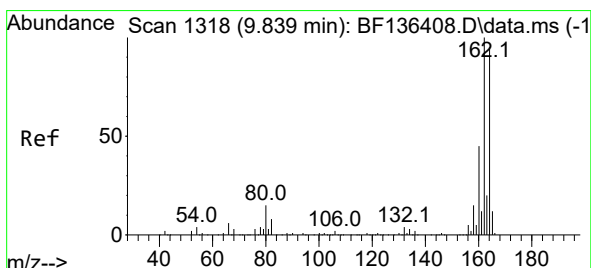
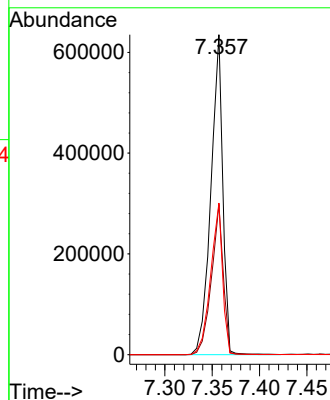
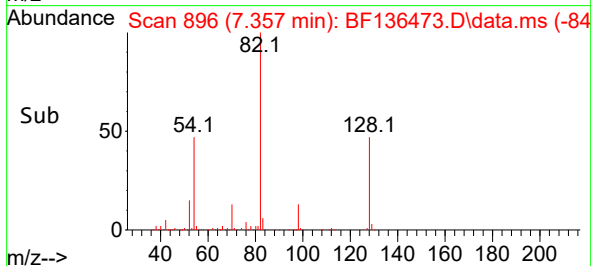
TOPSOIL-LKWD-DENALI-1



Tgt Ion:	82	Resp:	553754
Ion Ratio	Lower	Upper	
82	100		
128	47.0	36.3	54.5
54	47.4	39.0	58.6

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#39

Acenaphthene-d10

Concen: 20.000 ng

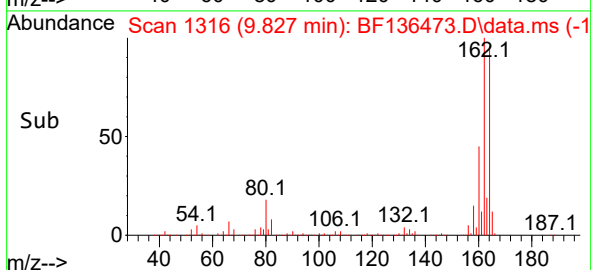
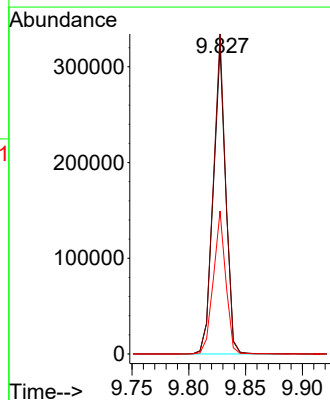
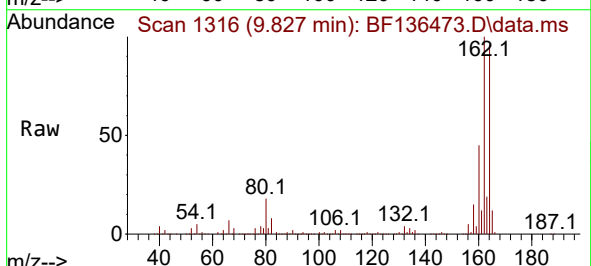
RT: 9.827 min Scan# 1316

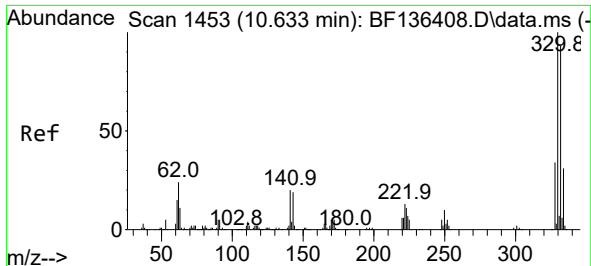
Delta R.T. -0.012 min

Lab File: BF136473.D

Acq: 08 Dec 2023 18:09

Tgt Ion:	164	Resp:	244379
Ion Ratio	Lower	Upper	
164	100		
162	104.2	84.4	126.6
160	46.6	37.6	56.4





#42

2,4,6-Tribromophenol

Concen: 69.463 ng

RT: 10.622 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF136473.D

Acq: 08 Dec 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-LKWD-DENALI-1

Tgt Ion:330 Resp: 209308

Ion Ratio Lower Upper

330 100

332 97.0 76.4 114.6

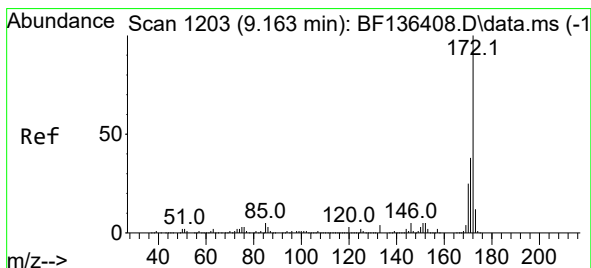
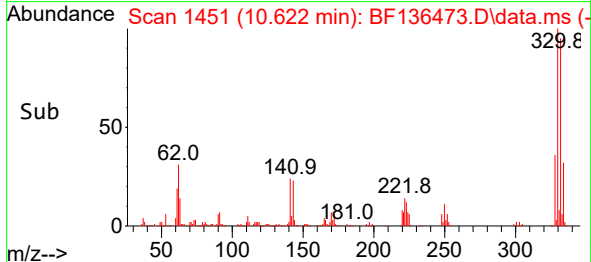
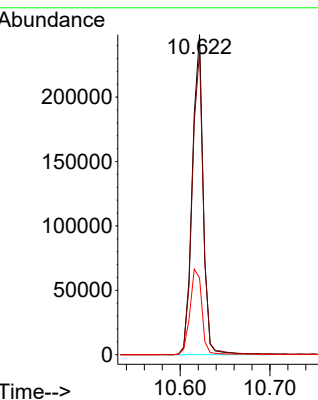
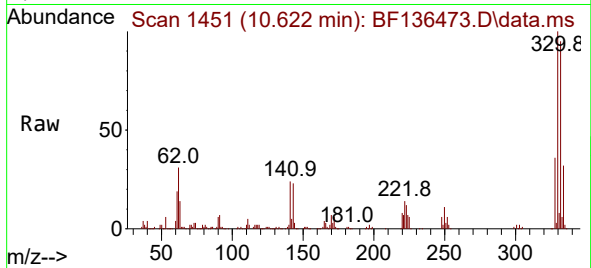
141 29.5 23.4 35.2

Manual Integrations

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Supervised By :mohammad ahmed 12/14/2023



#45

2-Fluorobiphenyl

Concen: 62.433 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF136473.D

Acq: 08 Dec 2023 18:09

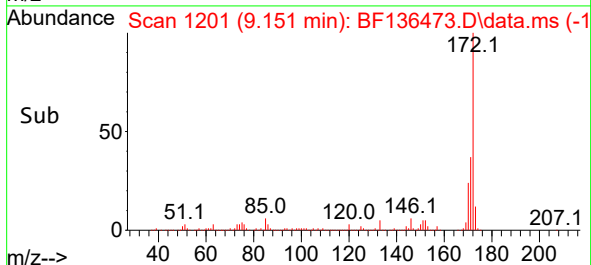
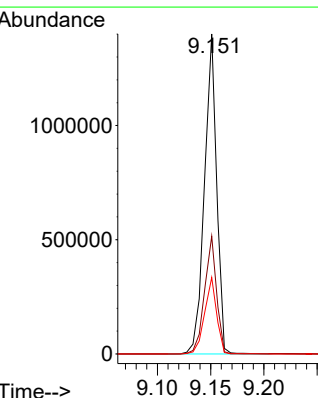
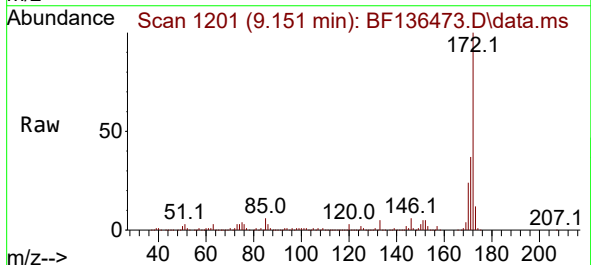
Tgt Ion:172 Resp: 1118155

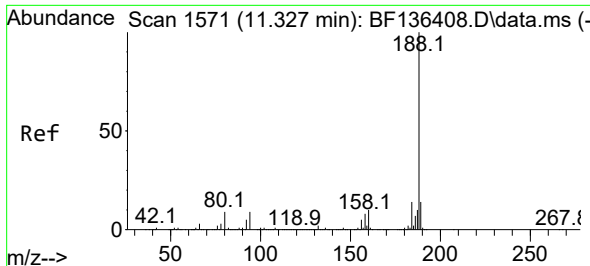
Ion Ratio Lower Upper

172 100

171 36.8 30.5 45.7

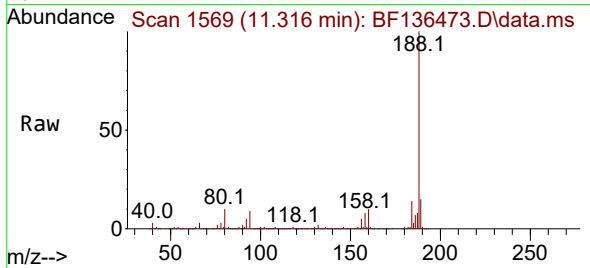
170 23.9 19.9 29.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

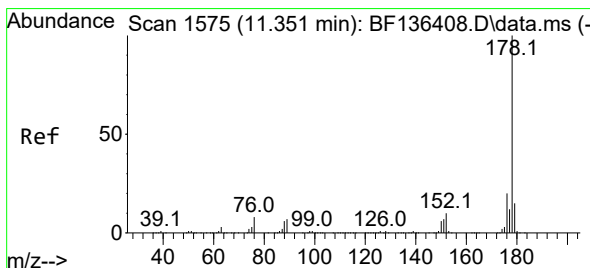
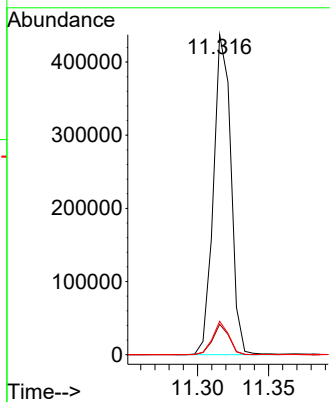
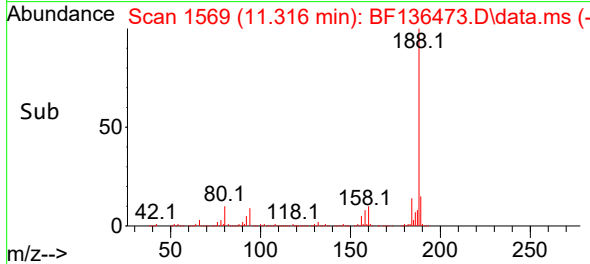
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



Tgt Ion:188 Resp: 374464
Ion Ratio Lower Upper
188 100
94 9.5 7.2 10.8
80 10.4 7.2 10.8

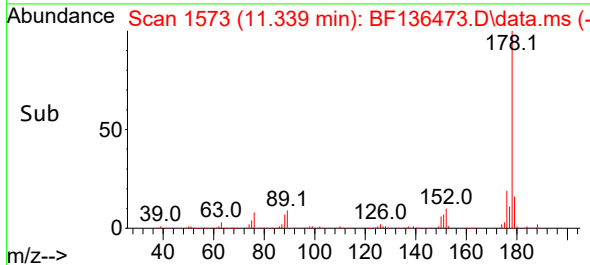
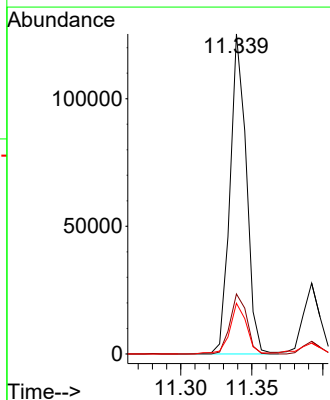
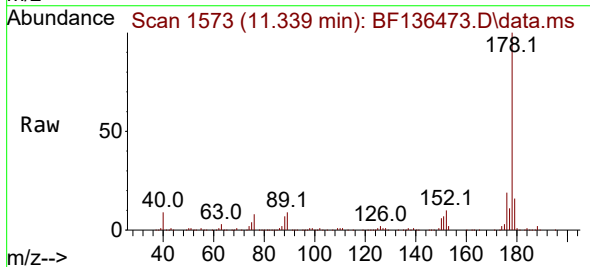
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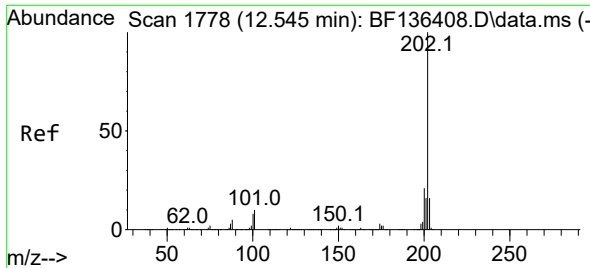
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#71
Phenanthrene
Concen: 4.849 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

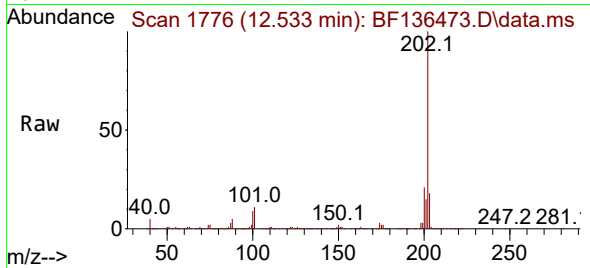
Tgt Ion:178 Resp: 99808
Ion Ratio Lower Upper
178 100
176 18.7 15.9 23.9
179 15.9 11.8 17.6





#75
Fluoranthene
Concen: 8.643 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

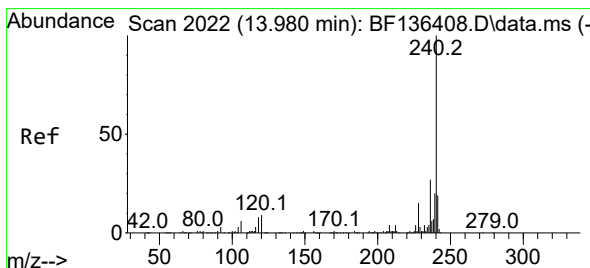
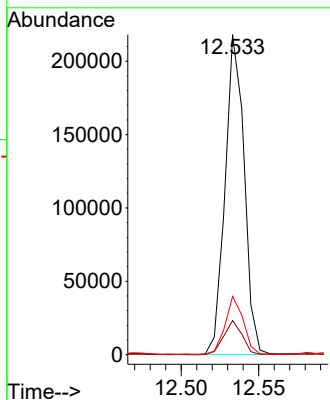
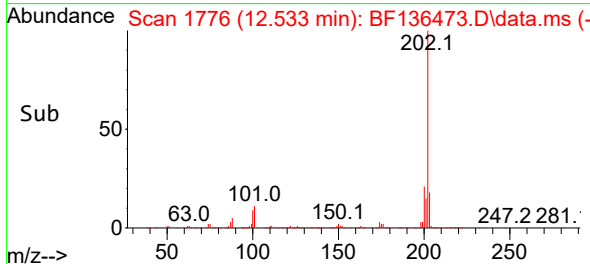
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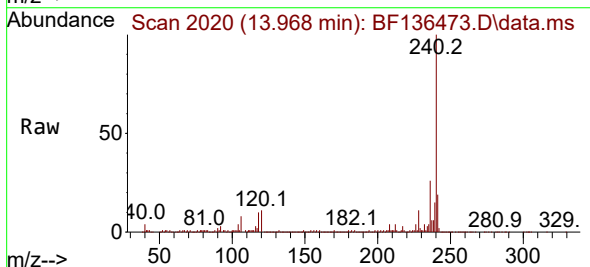
Tgt Ion:202 Resp: 186432
Ion Ratio Lower Upper
202 100
101 10.7 0.0 29.9
203 18.2 0.0 36.3

Manual Integrations
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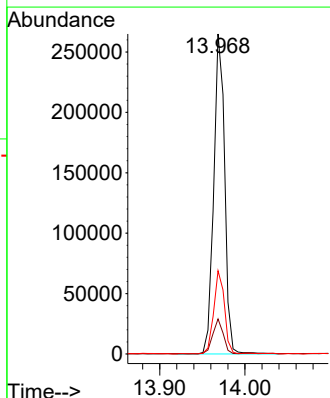
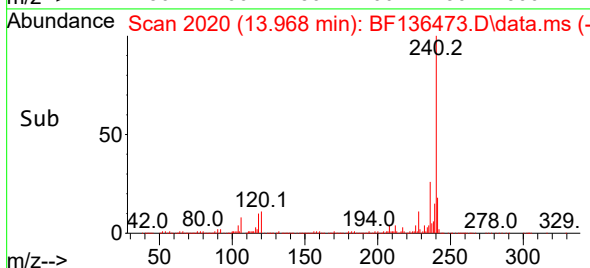
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023

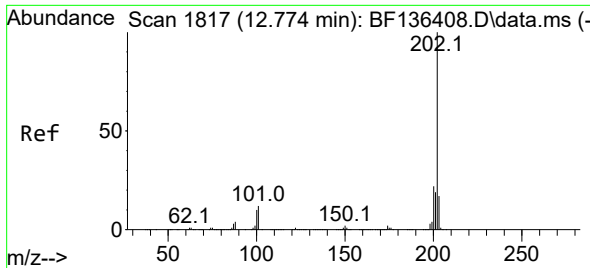


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09



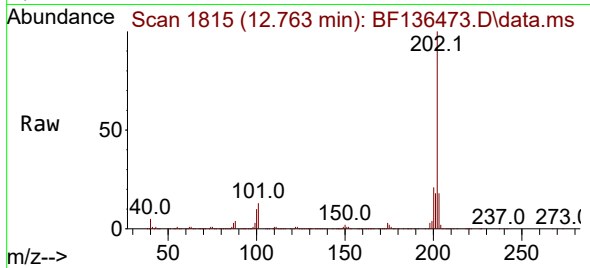
Tgt Ion:240 Resp: 237829
Ion Ratio Lower Upper
240 100
120 11.0 7.3 10.9#
236 26.0 21.3 31.9





#78
Pyrene
Concen: 7.453 ng
RT: 12.763 min Scan# 1815
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

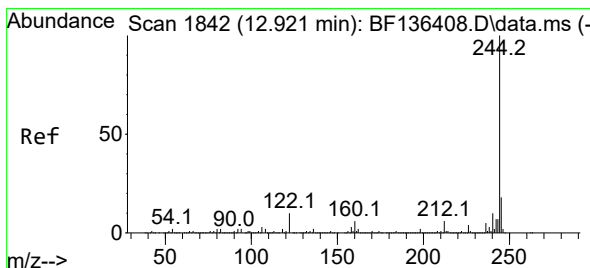
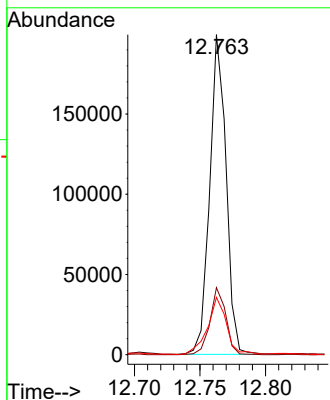
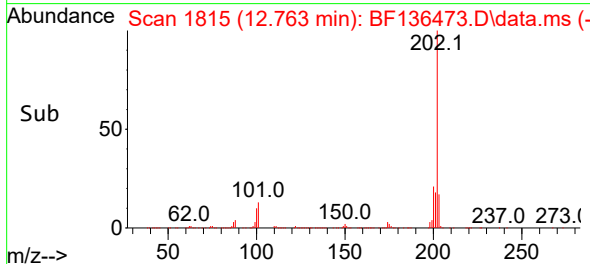
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



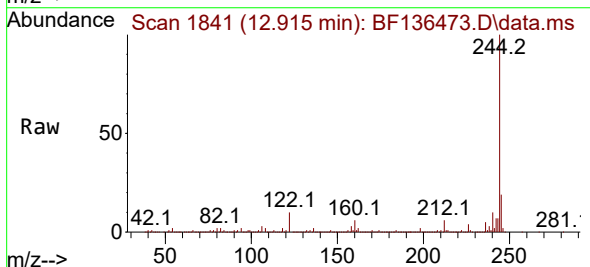
Tgt Ion:202 Resp: 17358
Ion Ratio Lower Upper
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200 20.9 18.0 27.0
203 17.9 13.5 20.3

Manual Integrations
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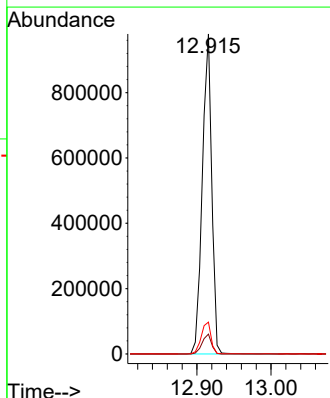
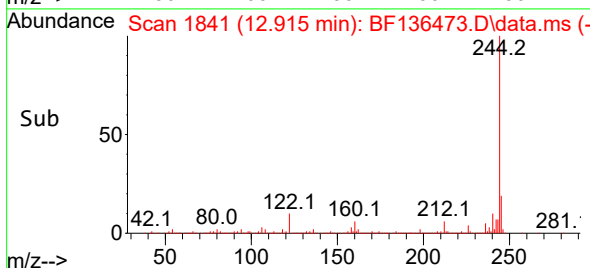
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023

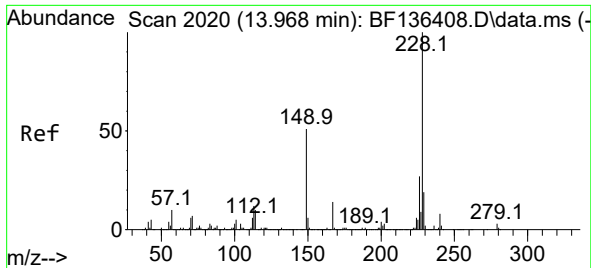


#79
Terphenyl-d14
Concen: 47.873 ng
RT: 12.915 min Scan# 1841
Delta R.T. -0.006 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09



Tgt Ion:244 Resp: 863818
Ion Ratio Lower Upper
244 100
212 6.2 5.0 7.4
122 9.9 8.3 12.5





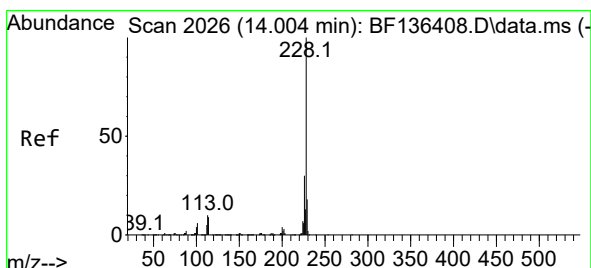
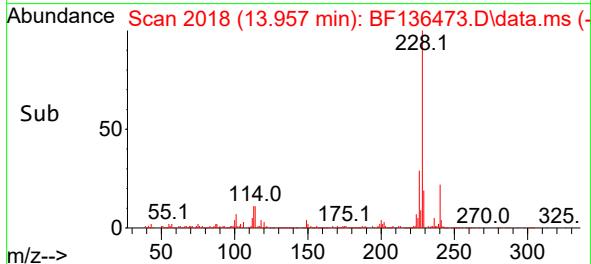
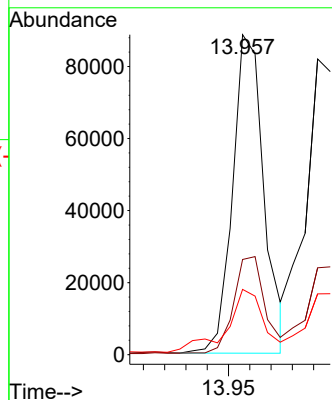
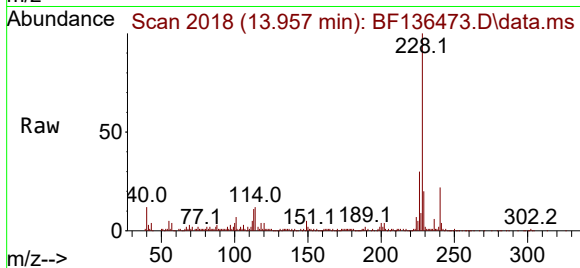
#81
Benzo(a)anthracene
Concen: 5.460 ng
RT: 13.957 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1

Tgt Ion:228 Resp: 9044
Ion Ratio Lower Upper
228 100
226 29.8 21.8 32.8
229 20.4 15.0 22.4

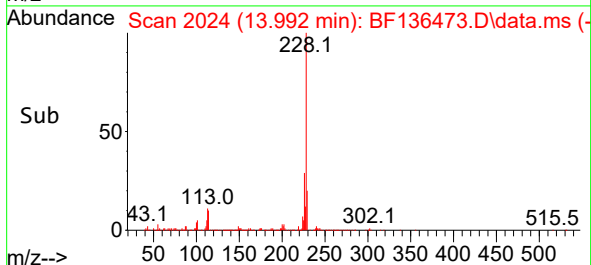
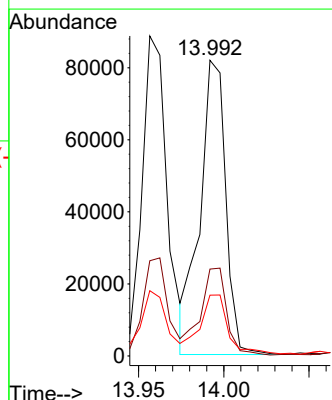
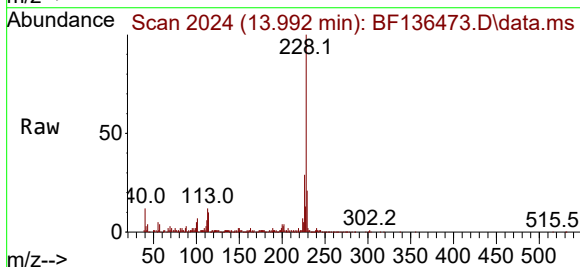
Manual Integrations
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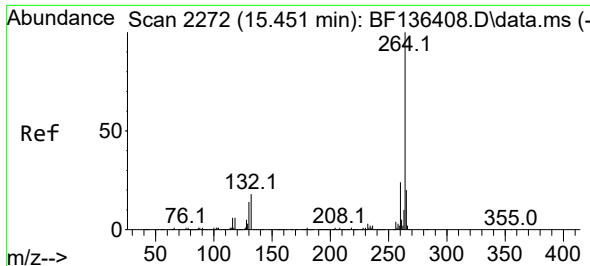
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#83
Chrysene
Concen: 5.277 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.012 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

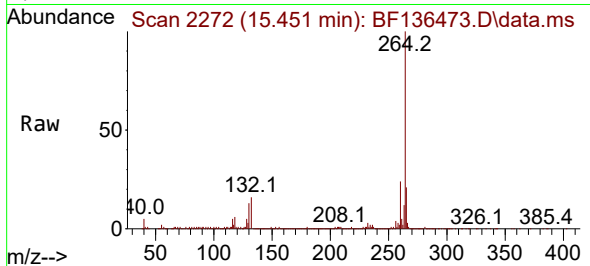
Tgt Ion:228 Resp: 86017
Ion Ratio Lower Upper
228 100
226 29.4 23.8 35.6
229 20.6 14.8 22.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

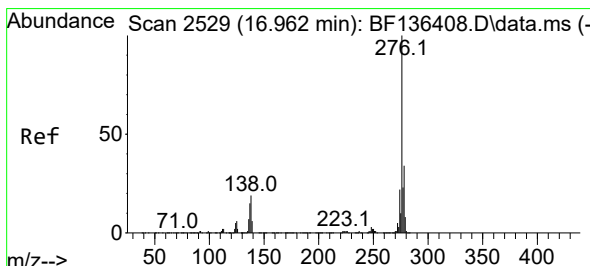
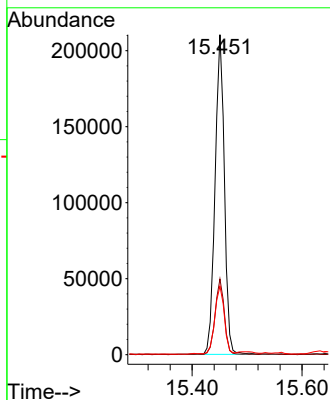
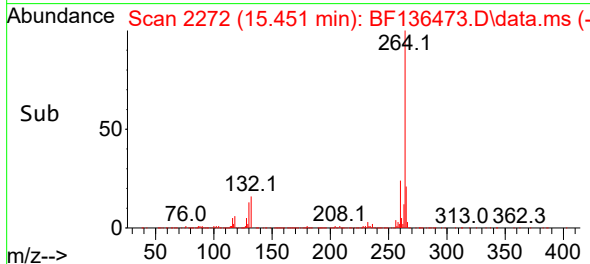
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



Tgt Ion:264 Resp: 249134
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.4 15.9 23.9

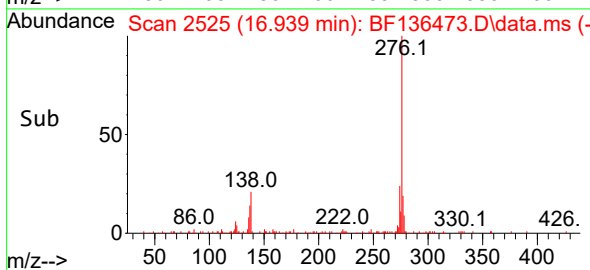
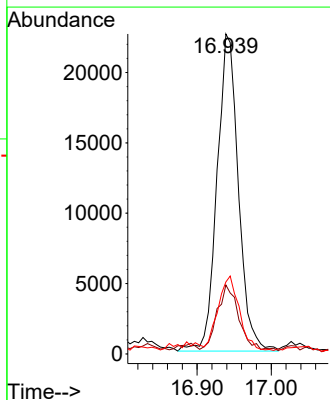
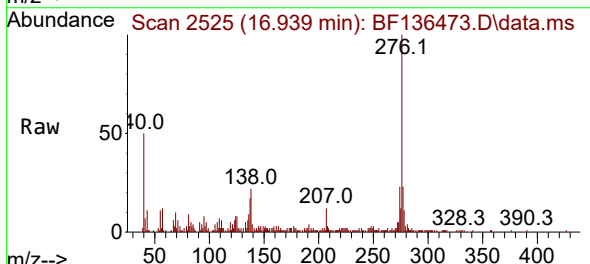
Manual Integrations
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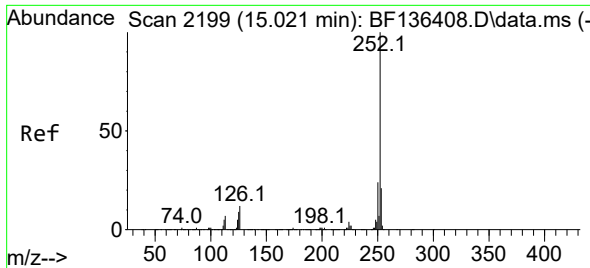
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.609 ng
RT: 16.939 min Scan# 2525
Delta R.T. -0.024 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

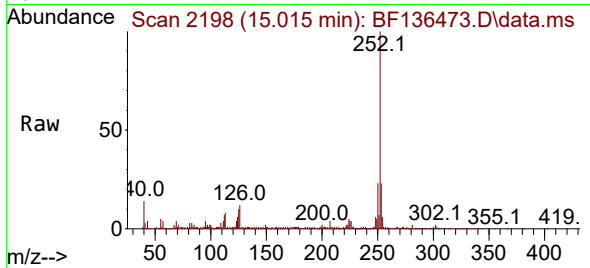
Tgt Ion:276 Resp: 45159
Ion Ratio Lower Upper
276 100
138 21.1 19.0 28.4
277 23.4 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 7.044 ng m
RT: 15.015 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

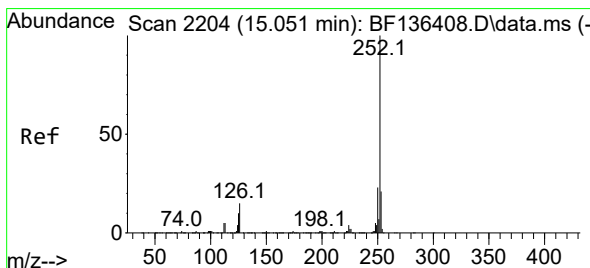
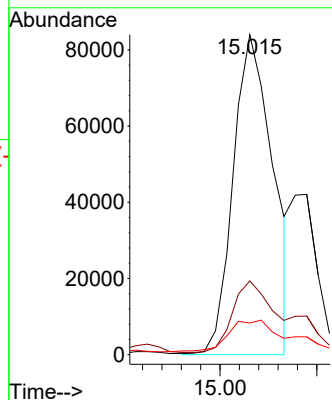
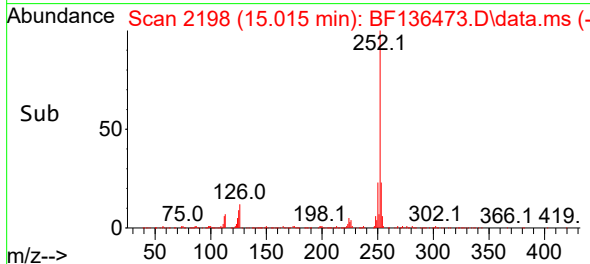
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



Tgt Ion:252 Resp: 119980
Ion Ratio Lower Upper
252 100
253 23.1 16.9 25.3
125 9.9 7.4 11.2

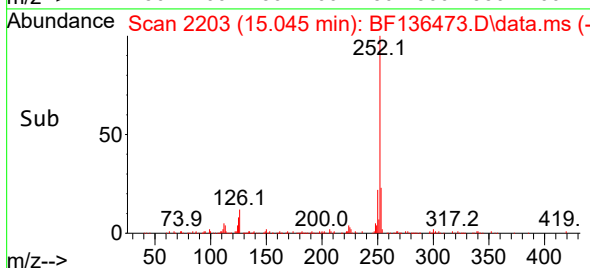
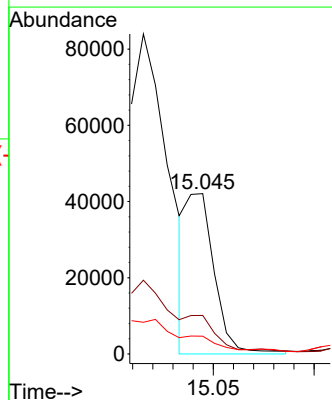
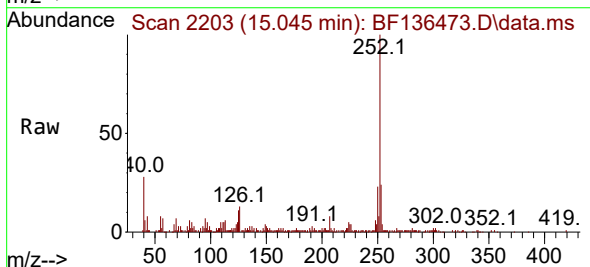
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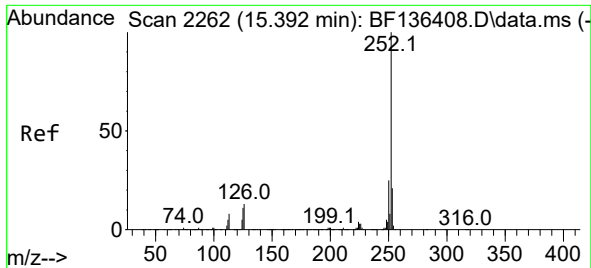
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#89
Benzo(k)fluoranthene
Concen: 2.535 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

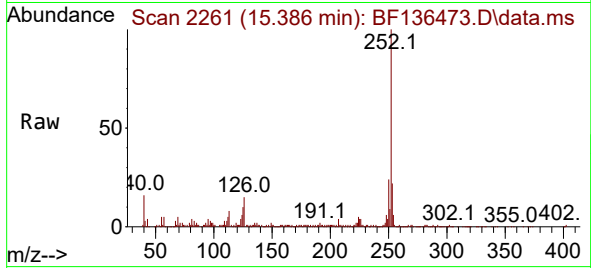
Tgt Ion:252 Resp: 40700
Ion Ratio Lower Upper
252 100
253 24.0 16.9 25.3
125 11.1 7.5 11.3





#90
Benzo(a)pyrene
Concen: 5.757 ng
RT: 15.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09

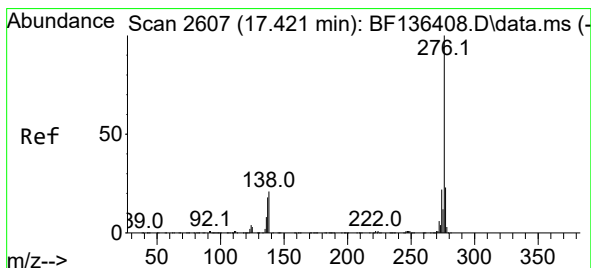
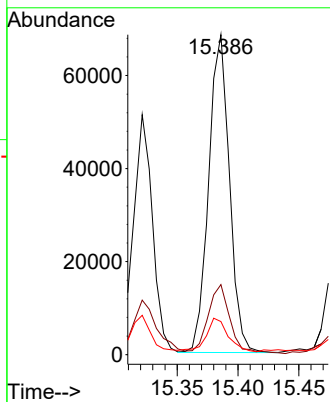
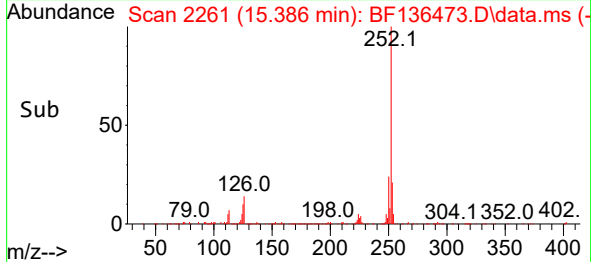
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-1



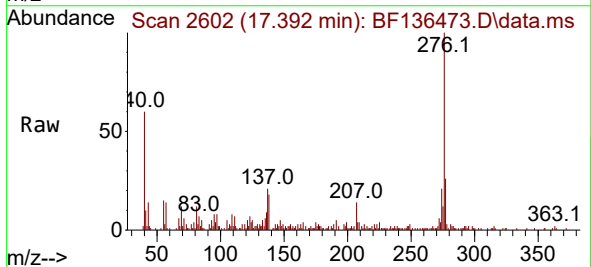
Tgt Ion:252 Resp: 80990
Ion Ratio Lower Upper
252 100
253 21.9 17.0 25.4
125 10.4 8.6 13.0

Manual Integrations
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Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#92
Benzo(g,h,i)perylene
Concen: 2.932 ng
RT: 17.392 min Scan# 2602
Delta R.T. -0.030 min
Lab File: BF136473.D
Acq: 08 Dec 2023 18:09



Tgt Ion:276 Resp: 42670
Ion Ratio Lower Upper
276 100
277 25.8 18.7 28.1
138 18.3 16.6 25.0

