

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
 Data File : BF136472.D
 Acq On : 08 Dec 2023 17:39
 Operator : CG\JU
 Sample : 05600-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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

Quant Time: Dec 08 18:03:26 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	144733	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	591856	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	284353	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	464918	20.000	ng	0.00
76) Chrysene-d12	13.974	240	252716	20.000	ng	0.00
86) Perylene-d12	15.451	264	286858	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	776095	79.191	ng	0.00
7) Phenol-d6	6.440	99	949950	77.691	ng	0.00
23) Nitrobenzene-d5	7.357	82	579550	52.936	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	231579	66.050	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1175055	56.386	ng	-0.01
79) Terphenyl-d14	12.916	244	964817	50.320	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.339	178	78119	3.057	ng	98
75) Fluoranthene	12.533	202	91714	3.425	ng	98
78) Pyrene	12.763	202	86418	3.492	ng	98
81) Benzo(a)anthracene	13.963	228	47502m	2.698	ng	
83) Chrysene	13.998	228	47926	2.767	ng	96
88) Benzo(b)fluoranthene	15.016	252	70451m	3.592	ng	
90) Benzo(a)pyrene	15.386	252	47928	2.959	ng	# 94

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

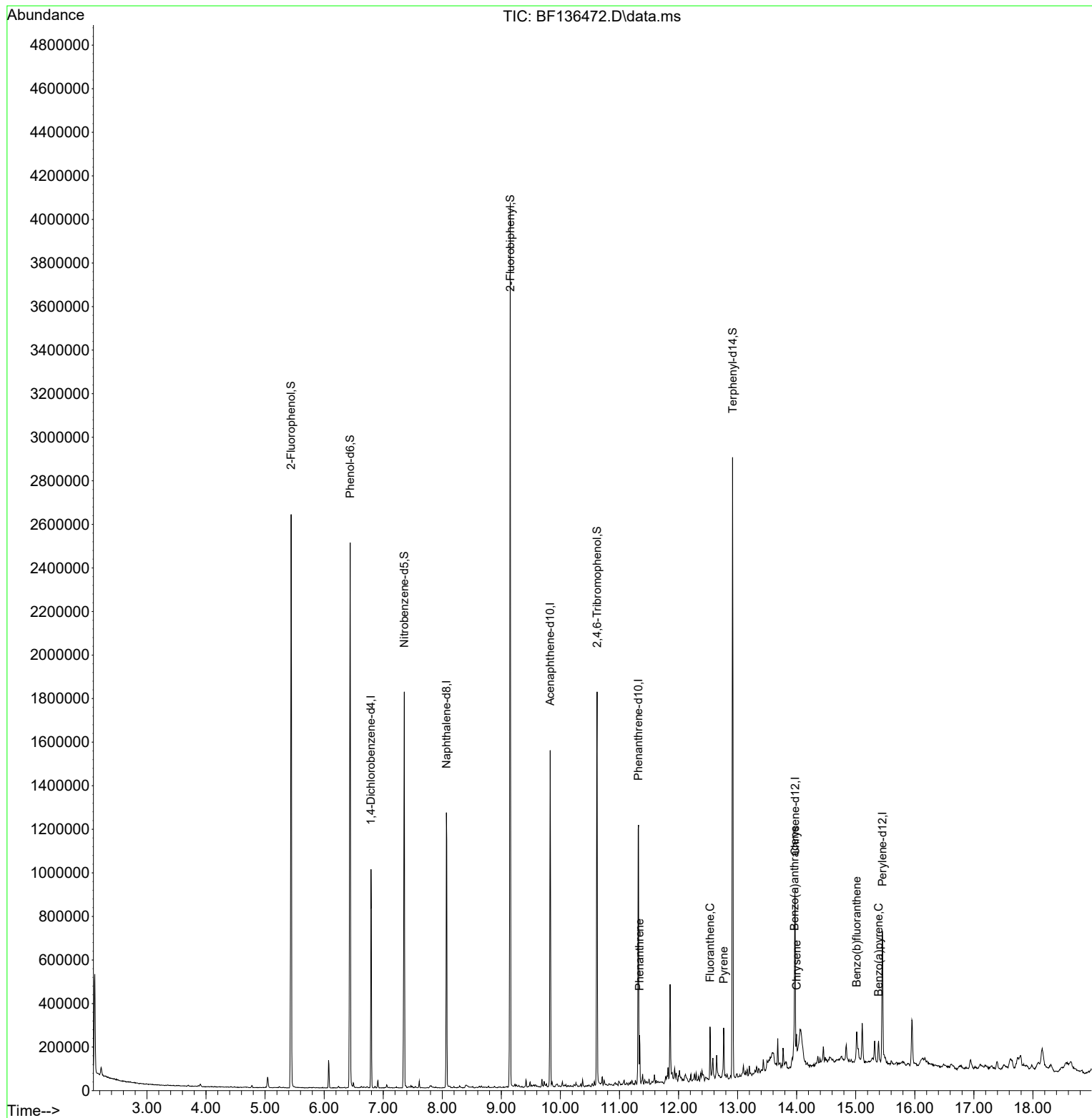
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
Data File : BF136472.D
Acq On : 08 Dec 2023 17:39
Operator : CG\JU
Sample : 05600-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

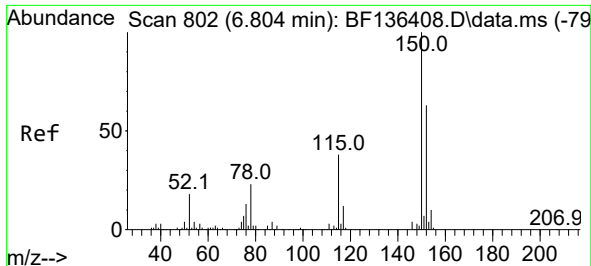
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

Quant Time: Dec 08 18:03:26 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

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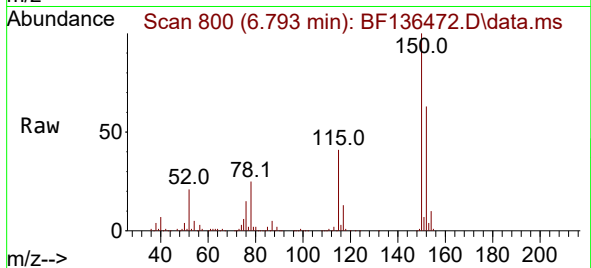
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 802
Delta R.T. -0.011 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

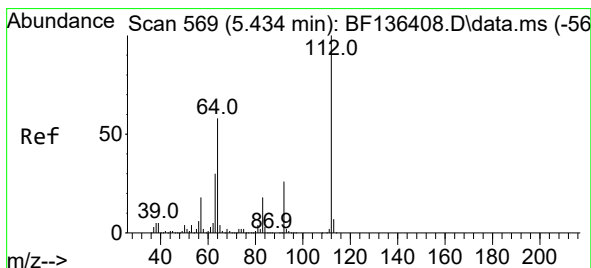
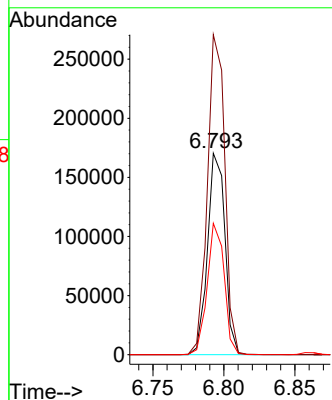
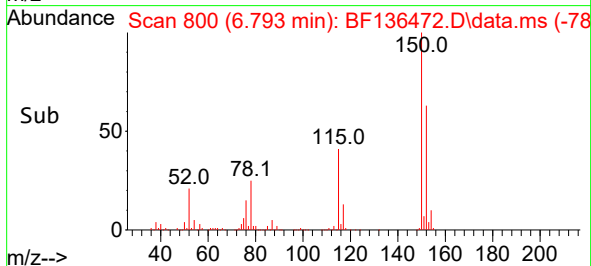
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2



Tgt Ion:152 Resp: 144733
Ion Ratio Lower Upper
152 100
150 158.8 126.4 189.6
115 65.2 48.2 72.4

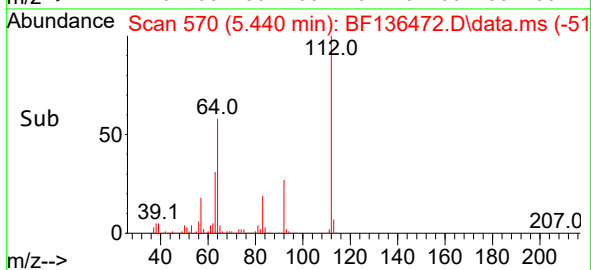
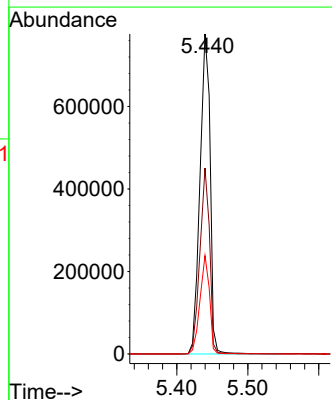
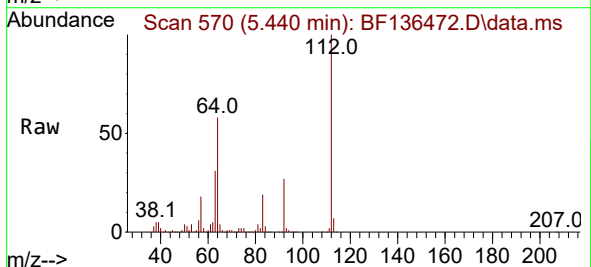
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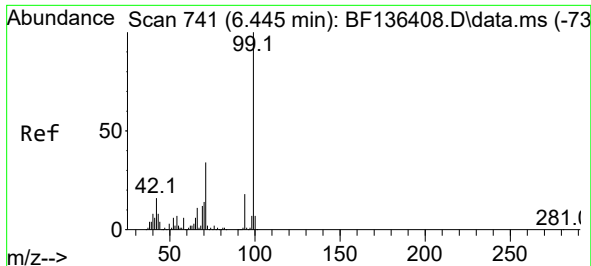
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#5
2-Fluorophenol
Concen: 79.191 ng
RT: 5.440 min Scan# 570
Delta R.T. 0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

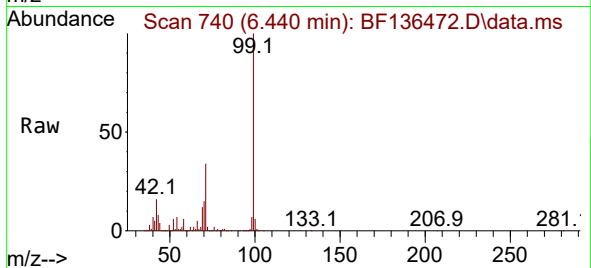
Tgt Ion:112 Resp: 776095
Ion Ratio Lower Upper
112 100
64 58.1 46.5 69.7
63 30.8 23.9 35.9





#7
Phenol-d6
Concen: 77.691 ng
RT: 6.440 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

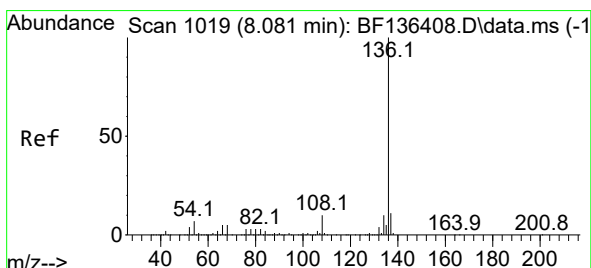
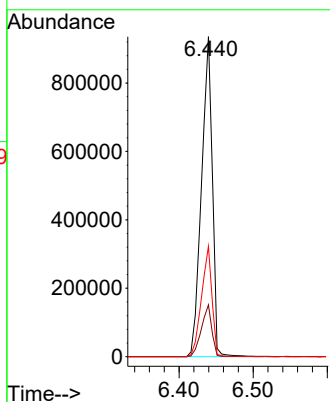
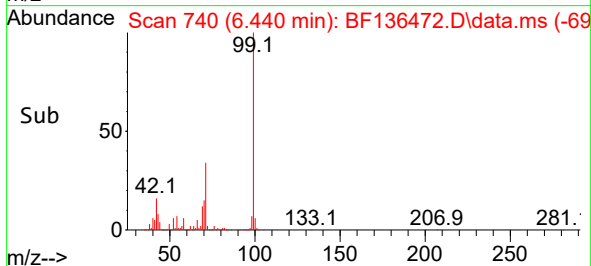
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2



Tgt Ion: 99 Resp: 949950
Ion Ratio Lower Upper
99 100
42 16.2 12.8 19.2
71 34.5 27.0 40.4

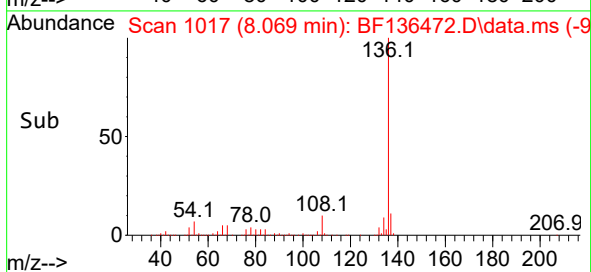
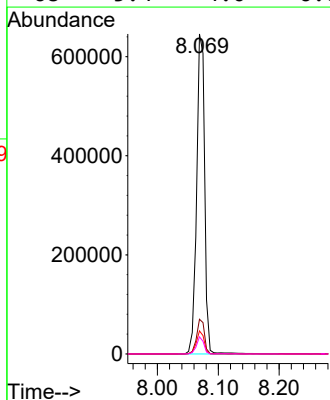
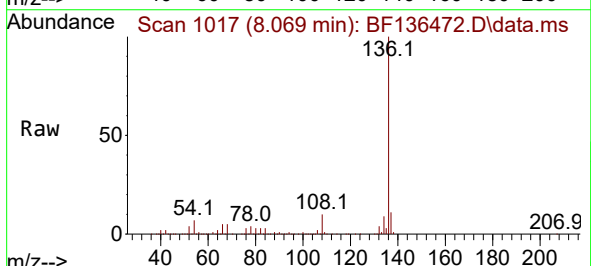
Manual Integrations
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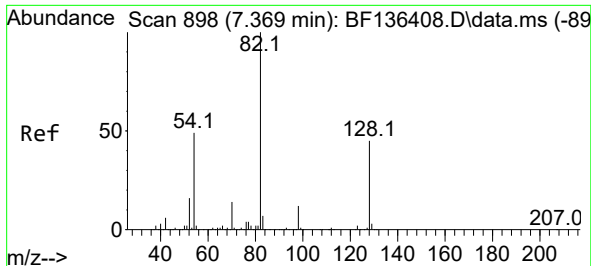
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:136 Resp: 591856
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 7.2 5.7 8.5
68 5.4 4.0 6.0





#23

Nitrobenzene-d5

Concen: 52.936 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136472.D

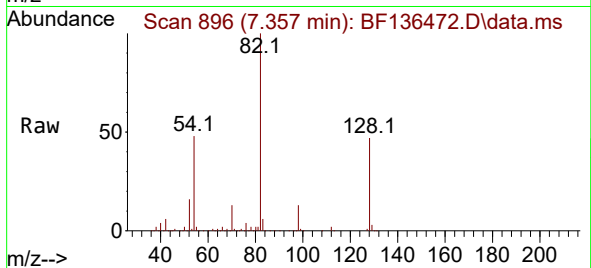
Acq: 08 Dec 2023 17:39

Instrument :

BNA_F

ClientSampleId :

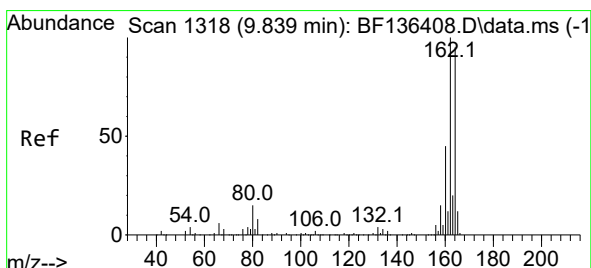
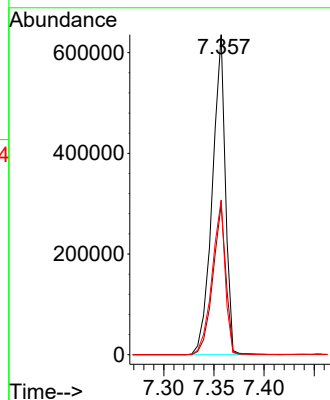
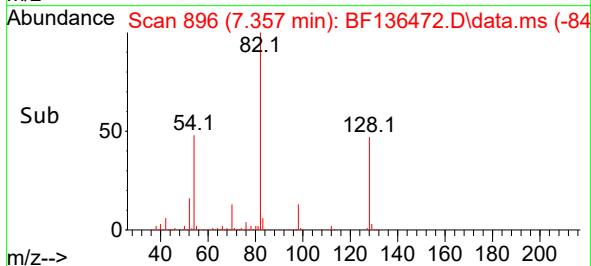
TOPSOIL-LKWD-DENALI-2



Tgt Ion:	82	Resp:	579550
Ion Ratio	Lower	Upper	
82	100		
128	47.0	36.3	54.5
54	48.3	39.0	58.6

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Supervised By :mohammad ahmed 12/14/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

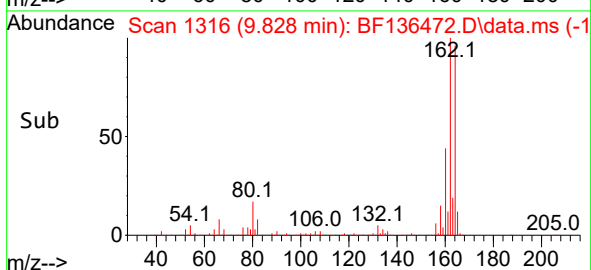
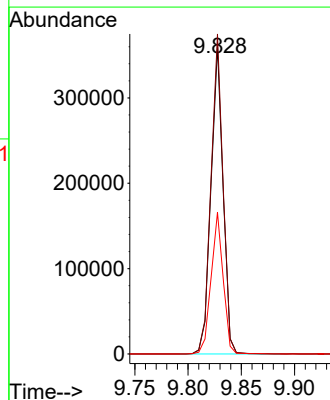
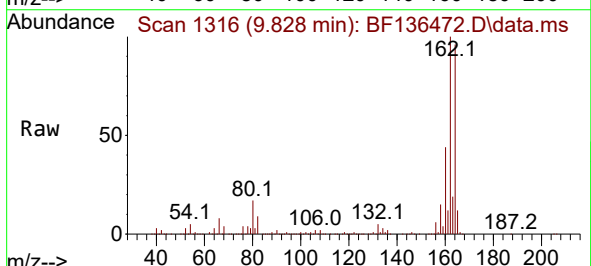
RT: 9.828 min Scan# 1316

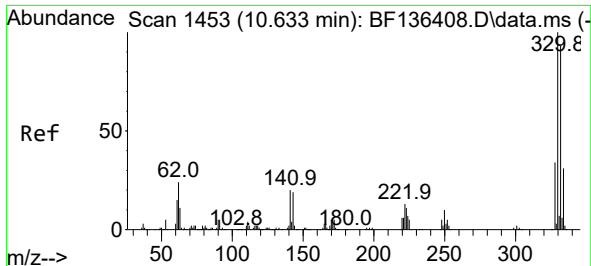
Delta R.T. -0.012 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

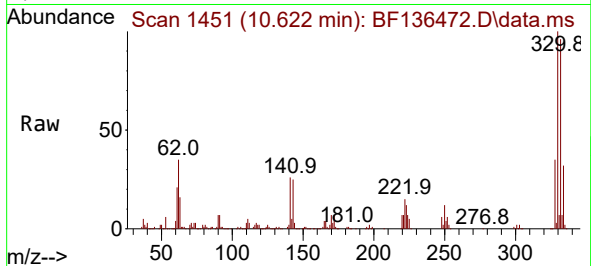
Tgt Ion:	164	Resp:	284353
Ion Ratio	Lower	Upper	
164	100		
162	104.1	84.4	126.6
160	46.1	37.6	56.4





#42
2,4,6-Tribromophenol
Concen: 66.050 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

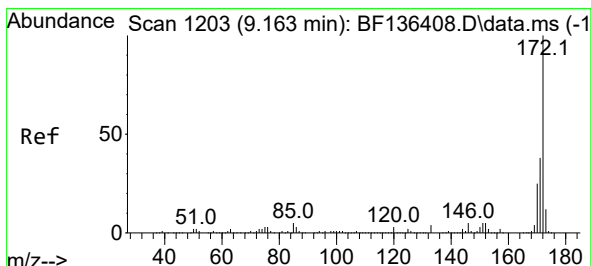
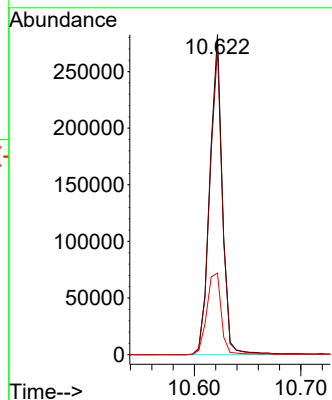
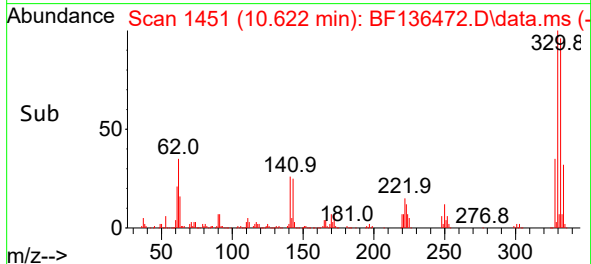
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2



Tgt Ion:330 Resp: 231579
Ion Ratio Lower Upper
330 100
332 96.3 76.4 114.6
141 29.7 23.4 35.2

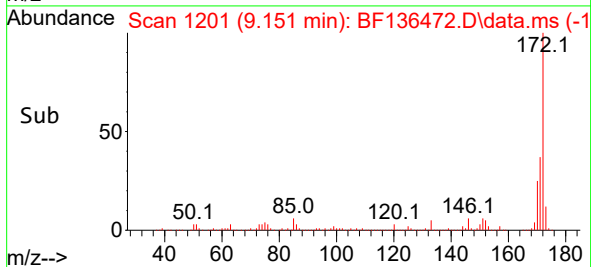
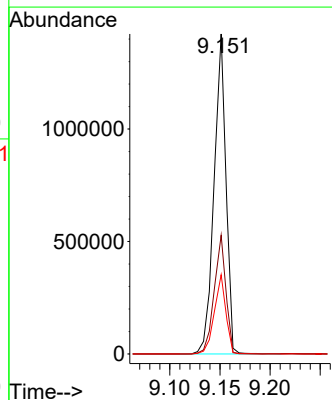
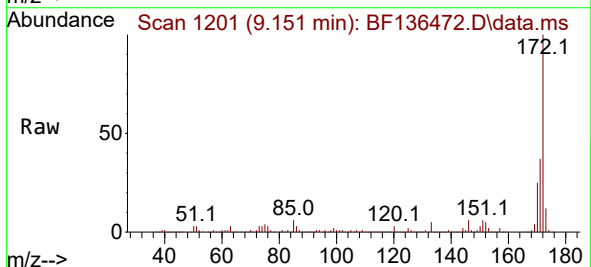
Manual Integrations
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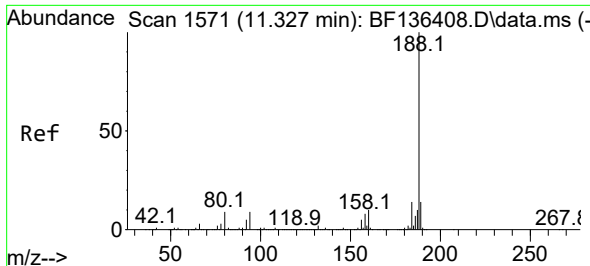
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#45
2-Fluorobiphenyl
Concen: 56.386 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

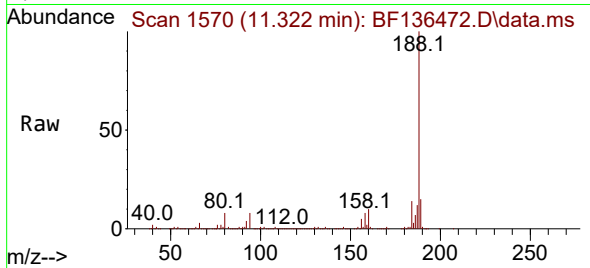
Tgt Ion:172 Resp: 1175055
Ion Ratio Lower Upper
172 100
171 37.1 30.5 45.7
170 24.7 19.9 29.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

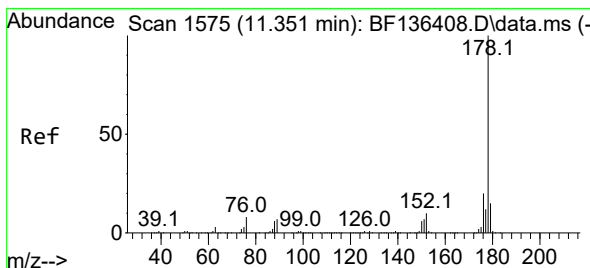
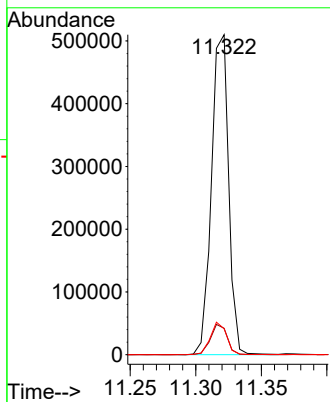
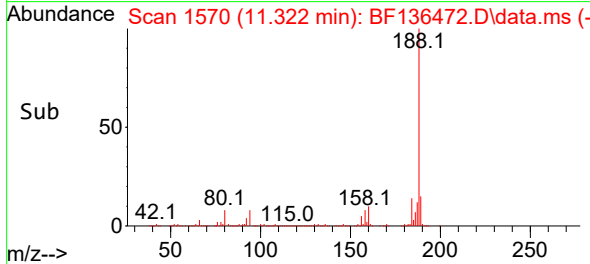
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2



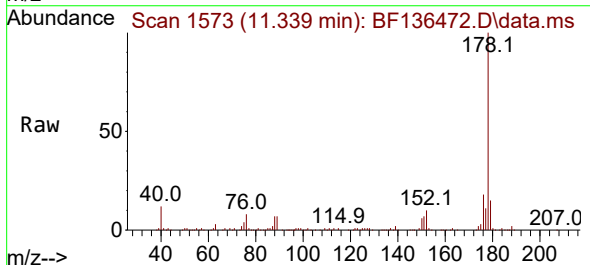
Tgt Ion:188 Resp: 464918
Ion Ratio Lower Upper
188 100
94 8.3 7.2 10.8
80 8.1 7.2 10.8

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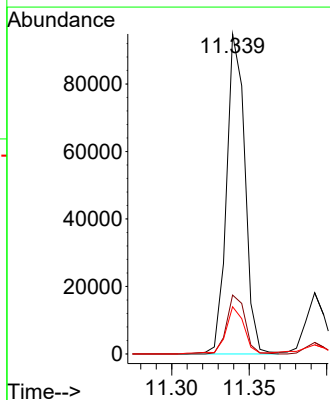
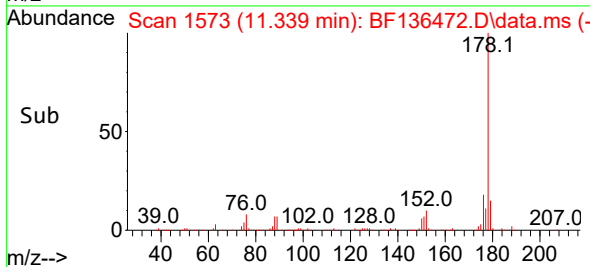
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023

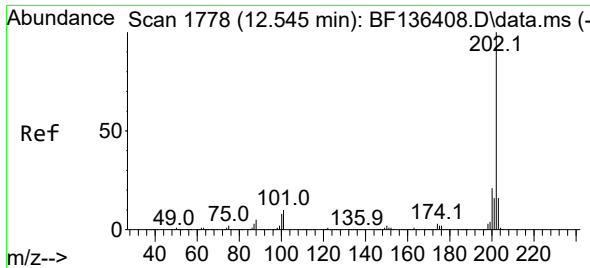


#71
Phenanthrene
Concen: 3.057 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39



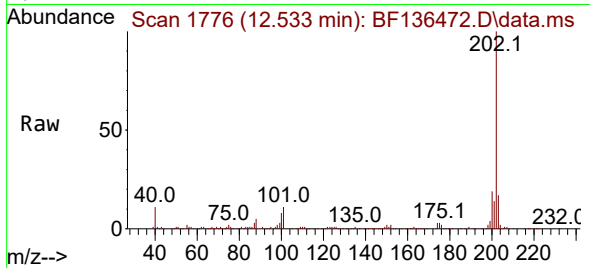
Tgt Ion:178 Resp: 78119
Ion Ratio Lower Upper
178 100
176 18.4 15.9 23.9
179 14.8 11.8 17.6





#75
Fluoranthene
Concen: 3.425 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

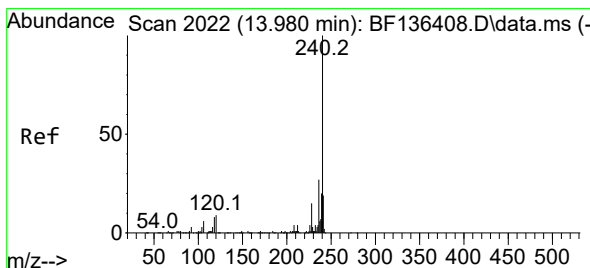
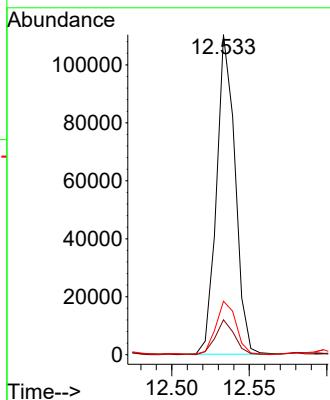
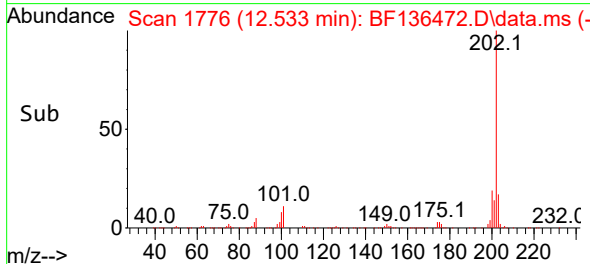
Instrument :
BNA_F
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TOPSOIL-LKWD-DENALI-2



Tgt Ion:202 Resp: 91714
Ion Ratio Lower Upper
202 100
101 10.9 0.0 29.9
203 16.7 0.0 36.3

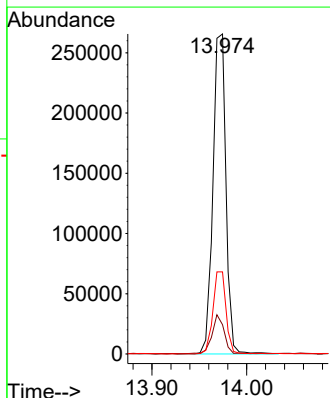
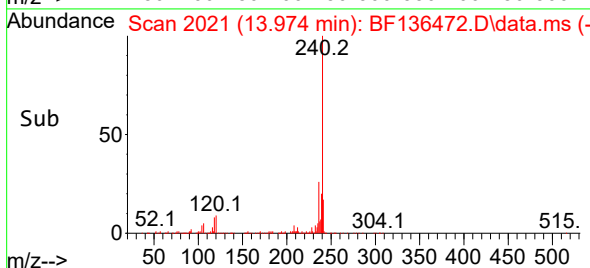
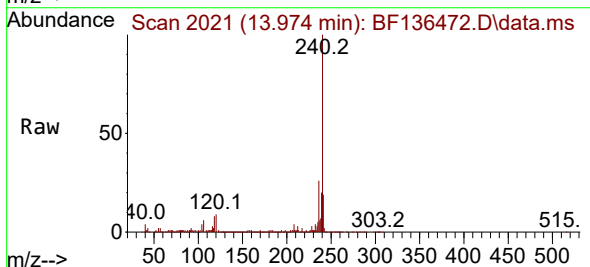
Manual Integrations
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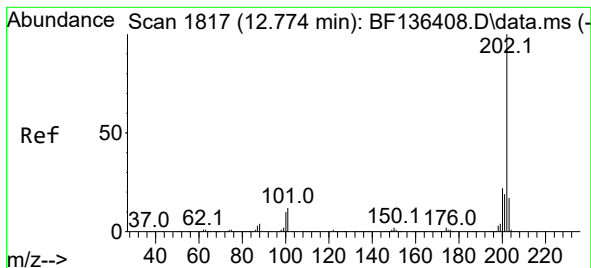
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:240 Resp: 252716
Ion Ratio Lower Upper
240 100
120 9.2 7.3 10.9
236 25.7 21.3 31.9





#78

Pyrene

Concen: 3.492 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.012 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-LKWD-DENALI-2

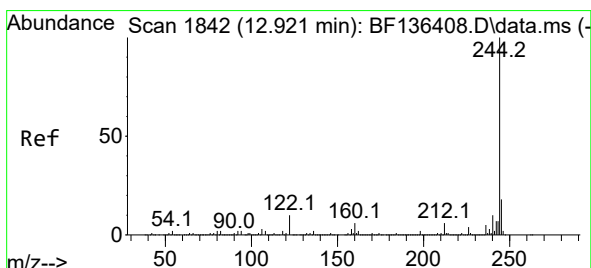
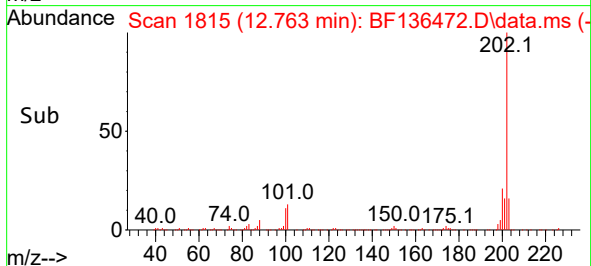
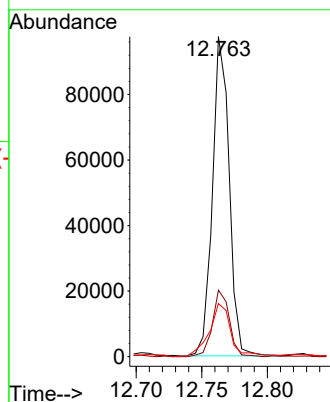
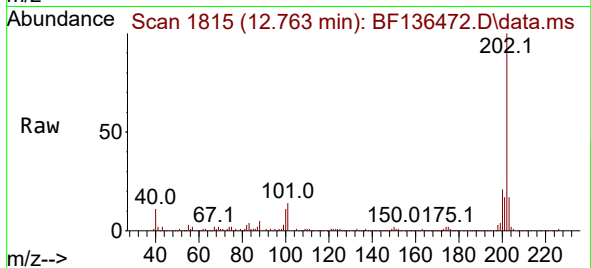
Tgt Ion:202	Resp:	86418
Ion Ratio	Lower	Upper
202	100	
200	20.8	18.0 27.0
203	16.6	13.5 20.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/08/2023

Supervised By :mohammad ahmed 12/14/2023



#79

Terphenyl-d14

Concen: 50.320 ng

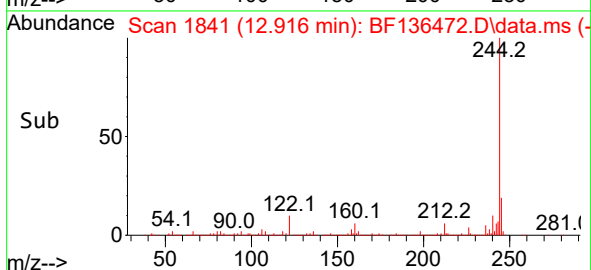
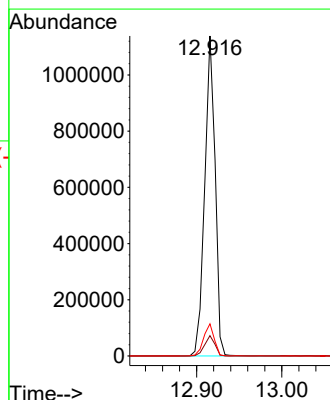
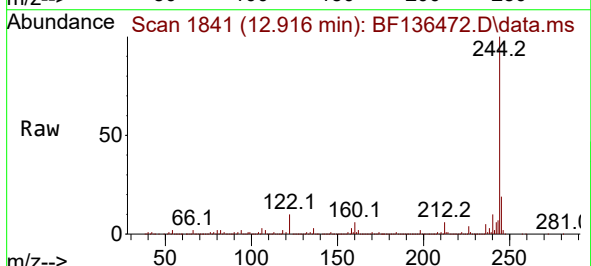
RT: 12.916 min Scan# 1841

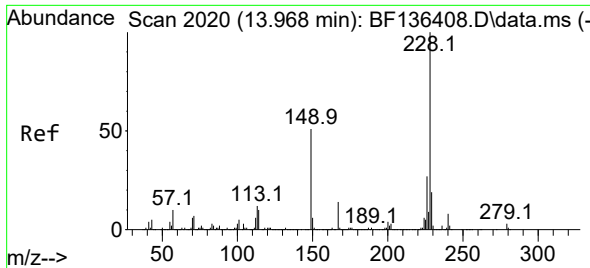
Delta R.T. -0.006 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

Tgt Ion:244	Resp:	964817
Ion Ratio	Lower	Upper
244	100	
212	6.3	5.0 7.4
122	10.1	8.3 12.5





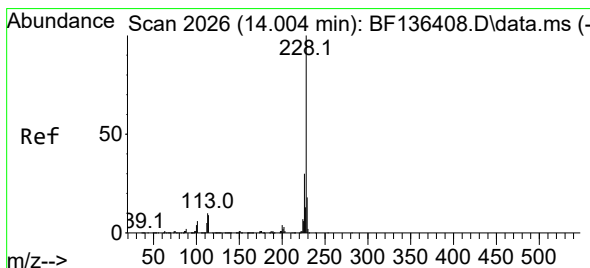
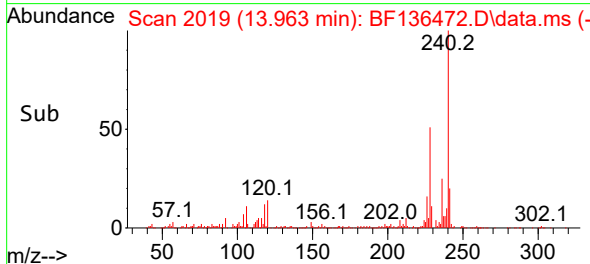
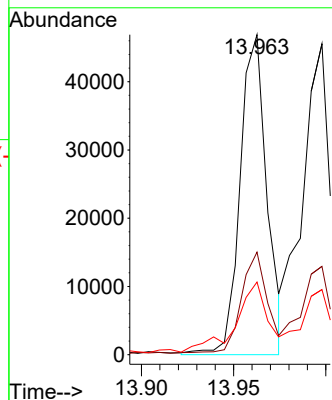
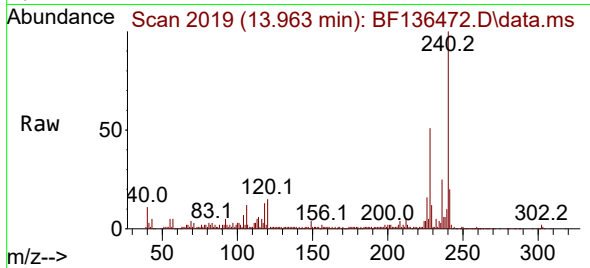
#81
Benzo(a)anthracene
Concen: 2.698 ng m
RT: 13.963 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

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

Tgt Ion:228 Resp: 47502
Ion Ratio Lower Upper
228 100
226 32.0 21.8 32.8
229 22.7 15.0 22.4

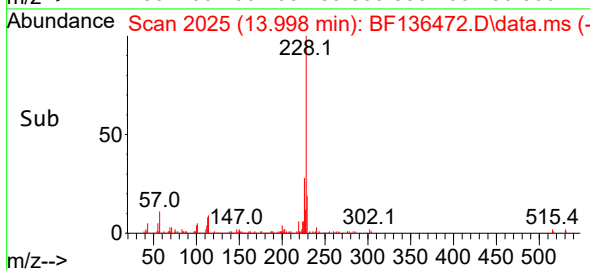
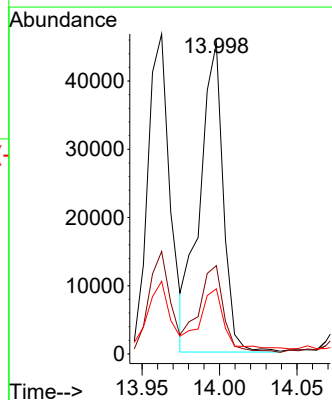
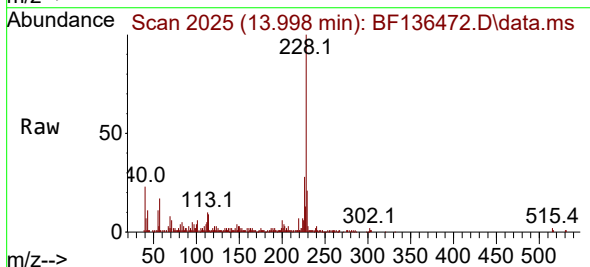
Manual Integrations
APPROVED

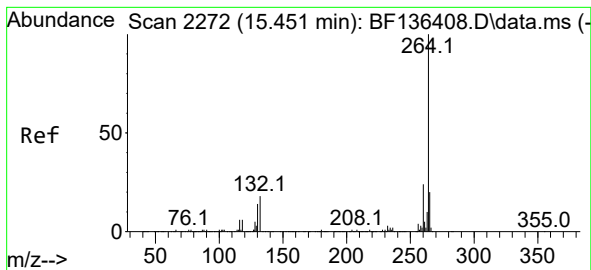
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#83
Chrysene
Concen: 2.767 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

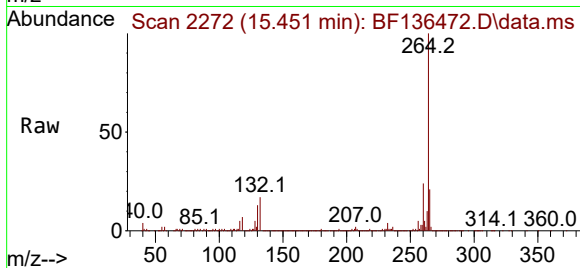
Tgt Ion:228 Resp: 47926
Ion Ratio Lower Upper
228 100
226 28.4 23.8 35.6
229 20.9 14.8 22.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

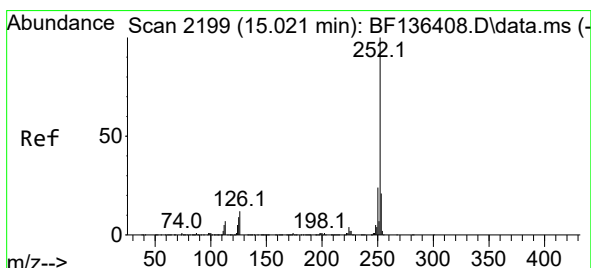
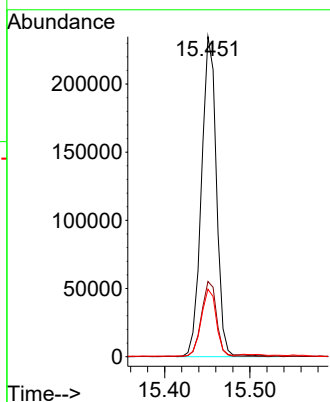
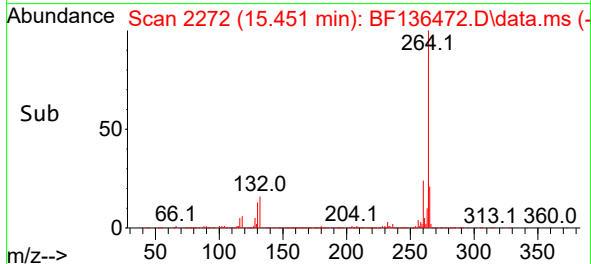
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2



Tgt Ion:264 Resp: 28685
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 21.1 15.9 23.9

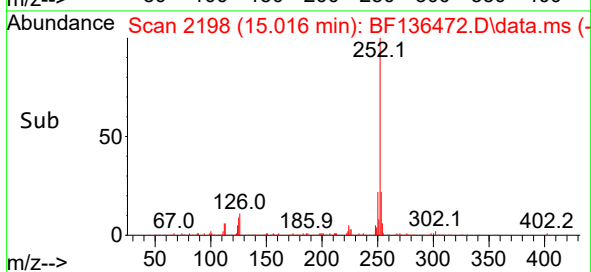
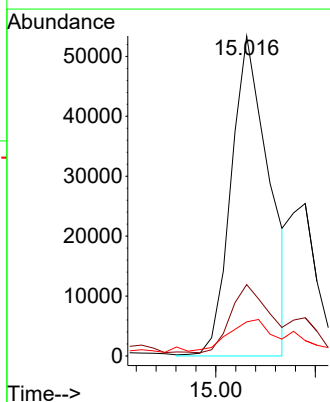
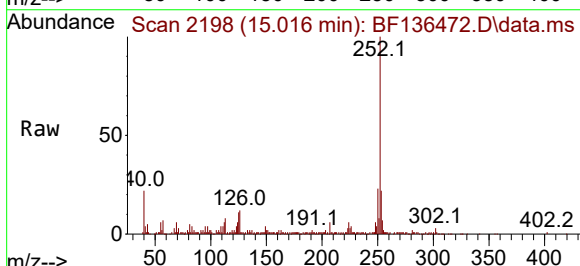
Manual Integrations
APPROVED

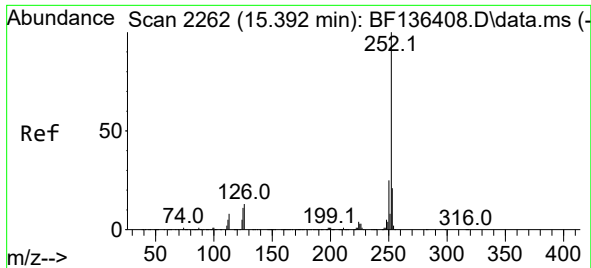
Reviewed By :Yogesh Patel 12/08/2023
Supervised By :mohammad ahmed 12/14/2023



#88
Benzo(b)fluoranthene
Concen: 3.592 ng m
RT: 15.016 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

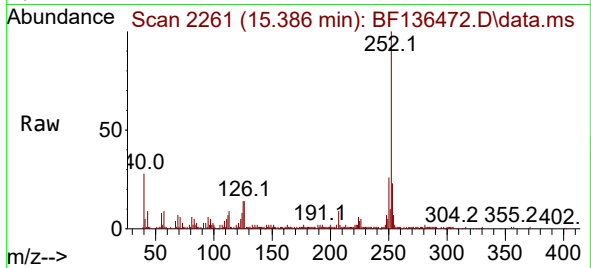
Tgt Ion:252 Resp: 70451
Ion Ratio Lower Upper
252 100
253 22.3 16.9 25.3
125 10.7 7.4 11.2





#90
Benzo(a)pyrene
Concen: 2.959 ng
RT: 15.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

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



Tgt Ion:252 Resp: 47928
Ion Ratio Lower Upper
252 100
253 23.5 17.0 25.4
125 13.8 8.6 13.0

Manual Integrations
APPROVED

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

