

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061923\
 Data File : BF133835.D
 Acq On : 19 Jun 2023 15:56
 Operator : CG\JU
 Sample : 03279-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/20/2023
 Supervised By :mohammad ahmed 06/20/2023

Quant Time: Jun 20 01:33:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 19 16:00:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.857	152	96142	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	365850	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	172757	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	285689	20.000	ng	0.00
76) Chrysene-d12	14.045	240	199179	20.000	ng	0.00
86) Perylene-d12	15.551	264	231249	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	438510	79.404	ng	0.00
7) Phenol-d6	6.487	99	521053	72.484	ng	-0.01
23) Nitrobenzene-d5	7.416	82	356398	53.060	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	136933	62.618	ng	0.00
45) 2-Fluorobiphenyl	9.210	172	648746	53.381	ng	-0.01
79) Terphenyl-d14	12.980	244	495392	38.485	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.410	178	55478	3.828	ng	98
75) Fluoranthene	12.604	202	119548	7.767	ng	98
78) Pyrene	12.833	202	127748	6.885	ng	98
81) Benzo(a)anthracene	14.033	228	75574m	5.485	ng	
83) Chrysene	14.068	228	66669	5.116	ng	97
87) Indeno(1,2,3-cd)pyrene	17.092	276	54444	3.422	ng	99
88) Benzo(b)fluoranthene	15.104	252	117096m	8.336	ng	
89) Benzo(k)fluoranthene	15.127	252	34485m	2.520	ng	
90) Benzo(a)pyrene	15.480	252	82490	6.327	ng	96
92) Benzo(g,h,i)perylene	17.556	276	51287m	3.927	ng	

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

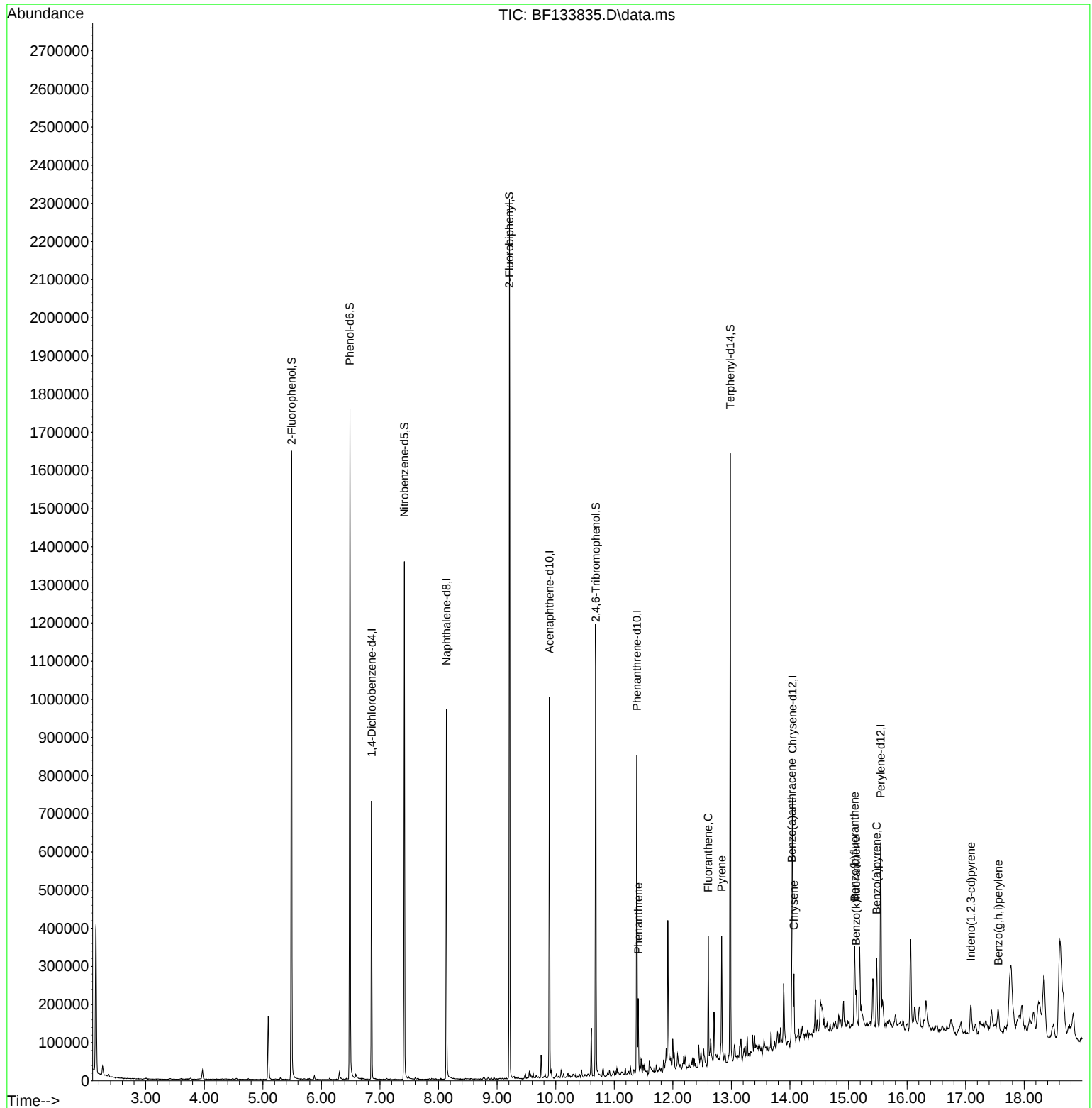
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061923\
Data File : BF133835.D
Acq On : 19 Jun 2023 15:56
Operator : CG\JU
Sample : 03279-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

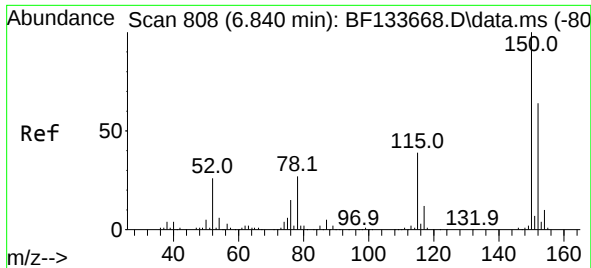
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

Quant Time: Jun 20 01:33:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 19 16:00:59 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

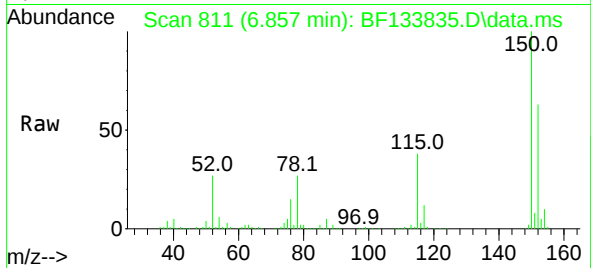
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.857 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

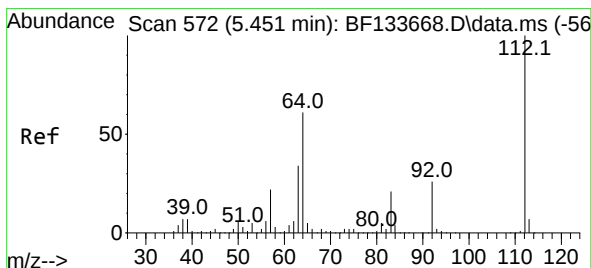
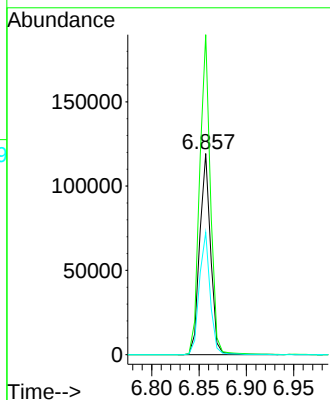
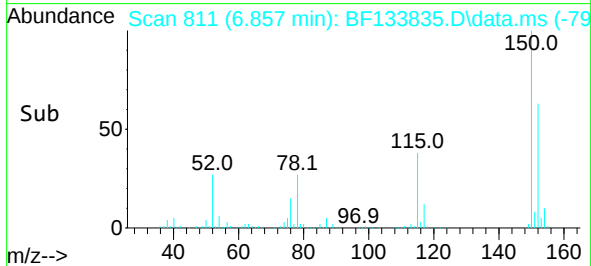
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



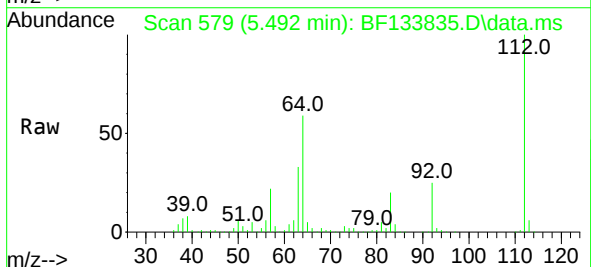
Tgt Ion:152 Resp: 96142
Ion Ratio Lower Upper
152 100
150 159.2 124.3 186.5
115 60.8 48.5 72.7

Manual Integrations
APPROVED

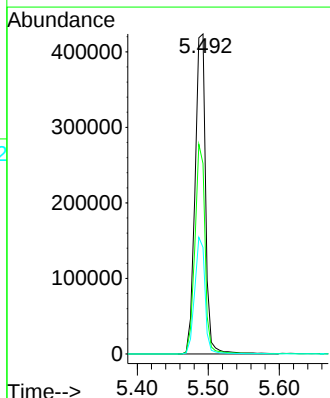
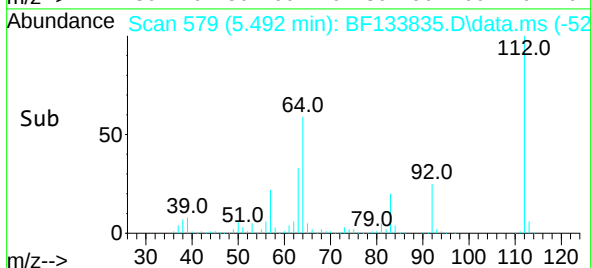
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

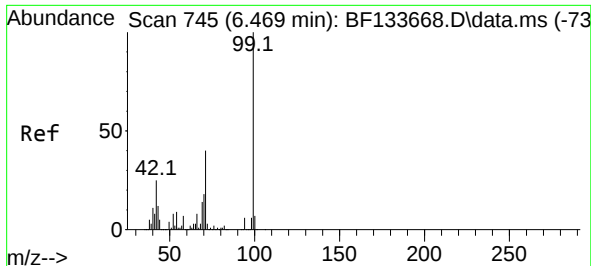


#5
2-Fluorophenol
Concen: 79.404 ng
RT: 5.492 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



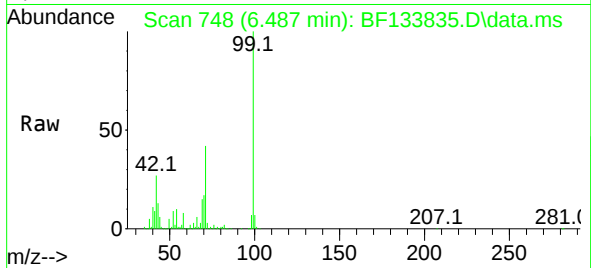
Tgt Ion:112 Resp: 438510
Ion Ratio Lower Upper
112 100
64 59.5 49.0 73.4
63 33.3 26.8 40.2





#7
Phenol-d6
Concen: 72.484 ng
RT: 6.487 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

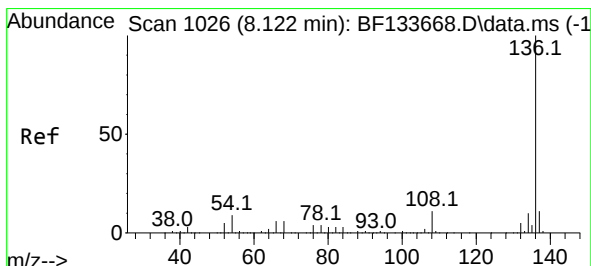
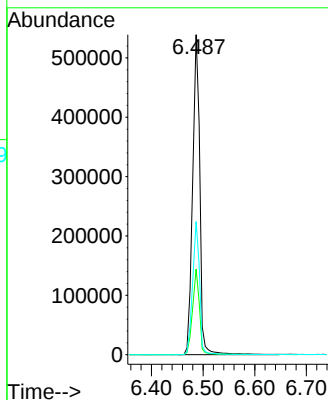
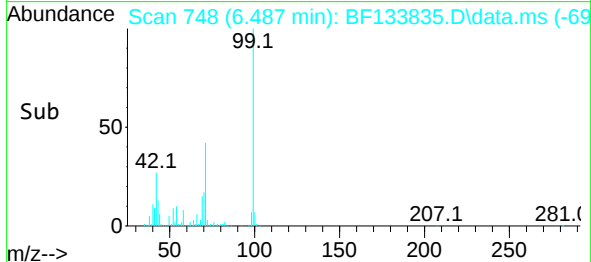
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



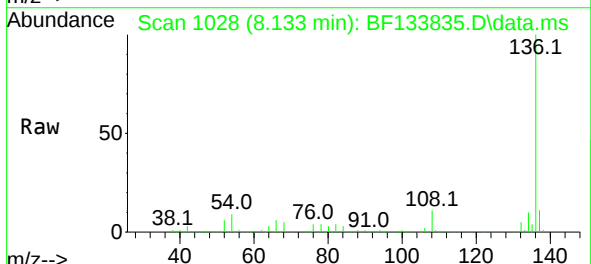
Tgt Ion: 99 Resp: 52105
Ion Ratio Lower Upper
99 100
42 26.7 19.9 29.9
71 41.6 32.2 48.4

Manual Integrations
APPROVED

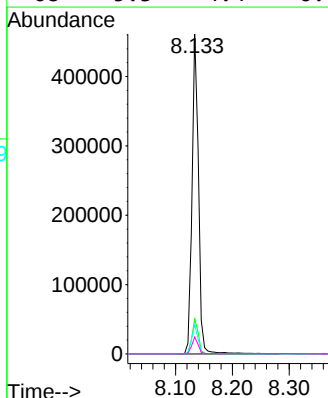
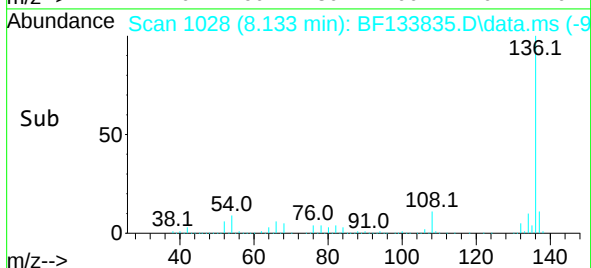
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

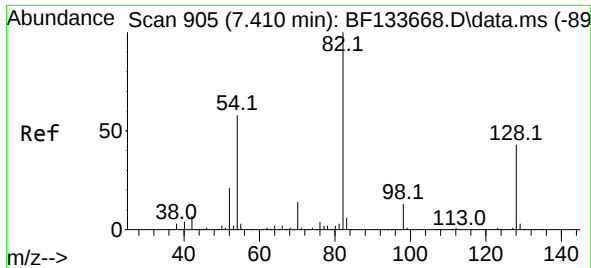


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



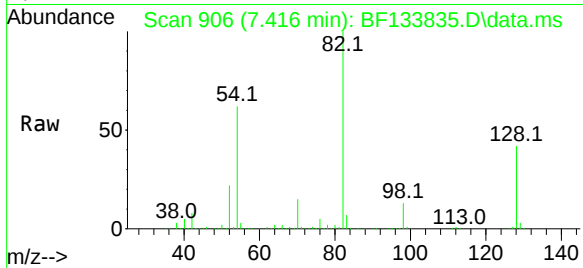
Tgt Ion:136 Resp: 365850
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 9.1 7.4 11.0
68 5.3 4.4 6.6





#23
Nitrobenzene-d5
Concen: 53.060 ng
RT: 7.416 min Scan# 905
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

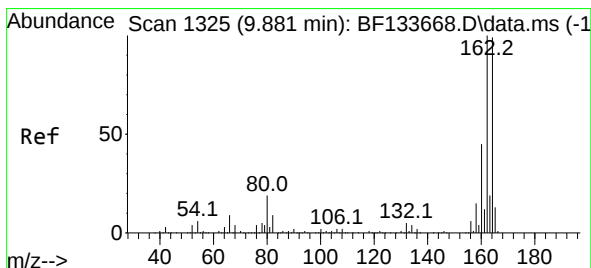
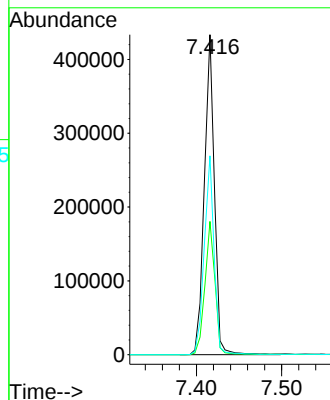
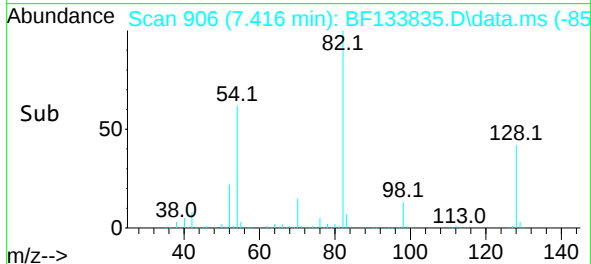
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



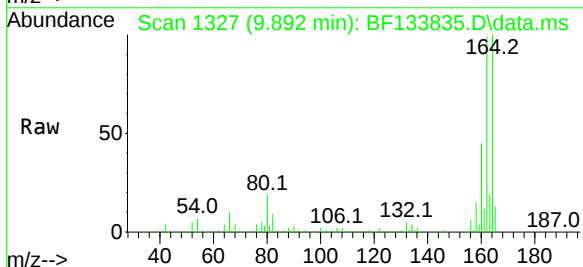
Tgt Ion: 82 Resp: 356398
Ion Ratio Lower Upper
82 100
128 41.6 34.2 51.2
54 62.2 46.5 69.7

Manual Integrations
APPROVED

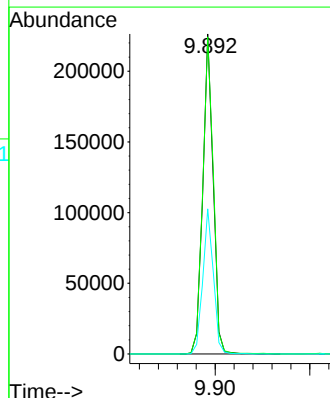
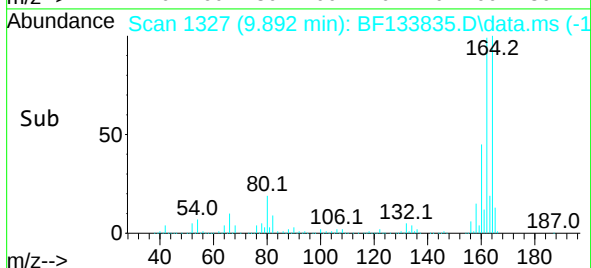
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



Tgt Ion:164 Resp: 172757
Ion Ratio Lower Upper
164 100
162 99.1 80.8 121.2
160 45.3 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 62.618 ng

RT: 10.686 min Scan# 1462

Delta R.T. -0.006 min

Lab File: BF133835.D

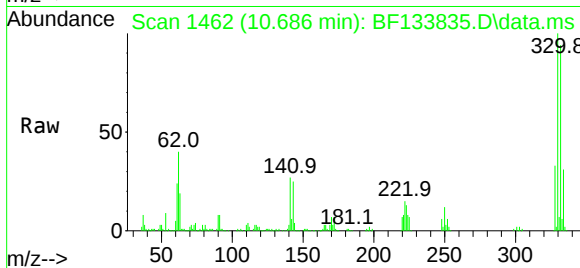
Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1



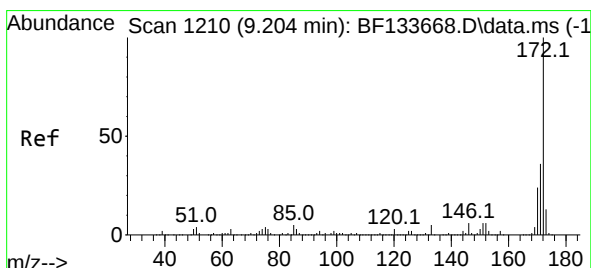
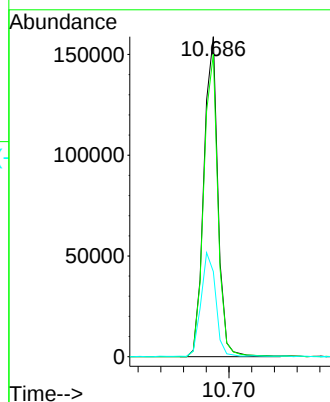
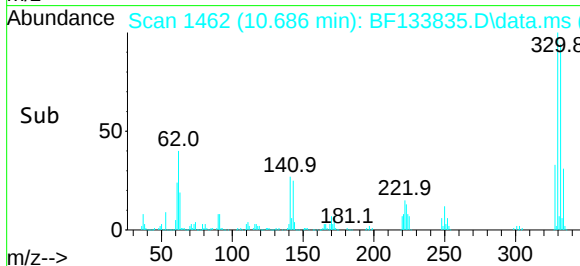
Tgt Ion:	330	Resp:	13693
Ion Ratio	Lower	Upper	
330	100		
332	95.1	77.2	115.8
141	34.2	24.9	37.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/20/2023

Supervised By :mohammad ahmed 06/20/2023



#45

2-Fluorobiphenyl

Concen: 53.381 ng

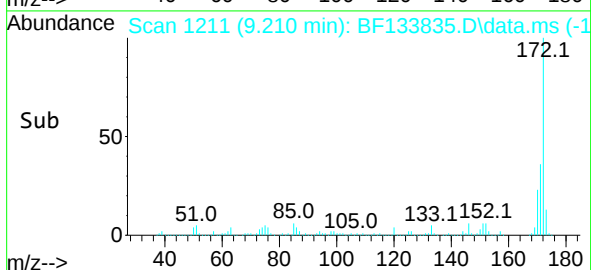
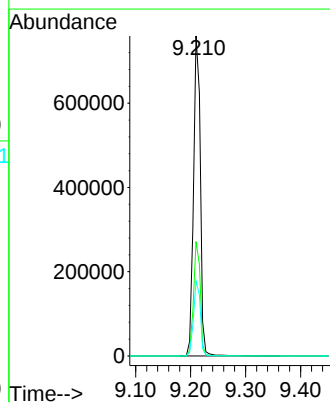
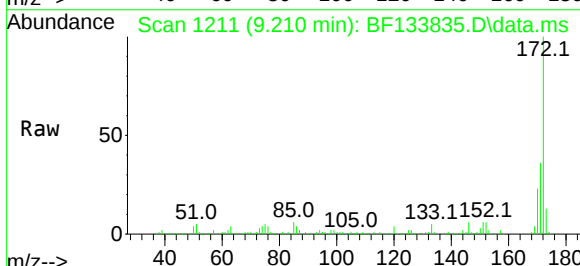
RT: 9.210 min Scan# 1211

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

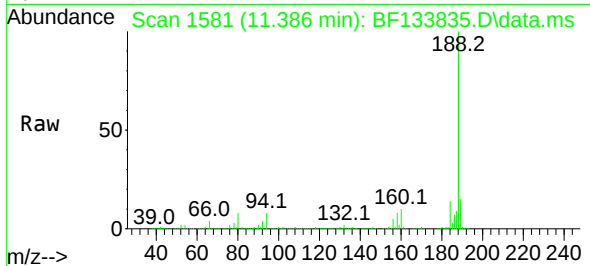
Tgt Ion:	172	Resp:	648746
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.6	43.0
170	23.4	19.1	28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

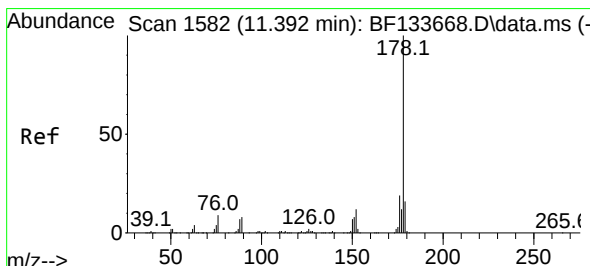
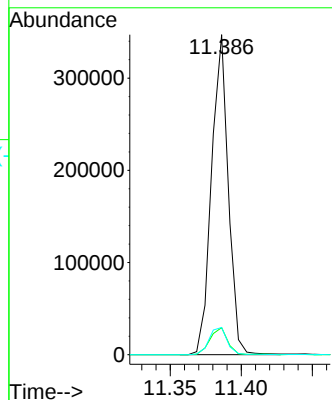
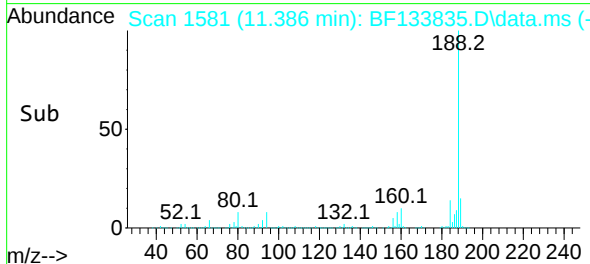
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



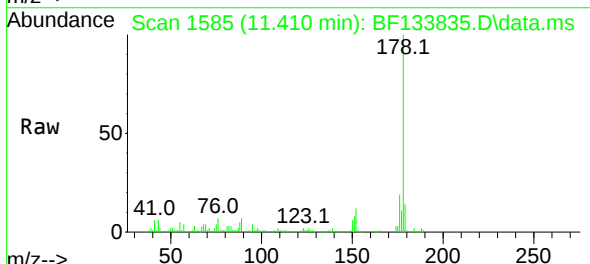
Tgt Ion:188 Resp: 285689
Ion Ratio Lower Upper
188 100
94 8.5 6.8 10.2
80 8.5 7.8 11.6

Manual Integrations
APPROVED

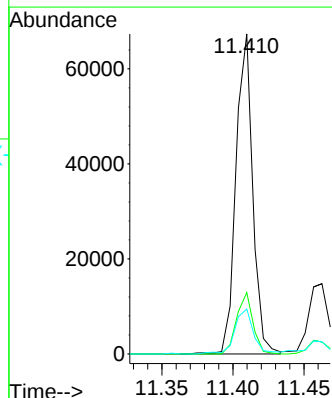
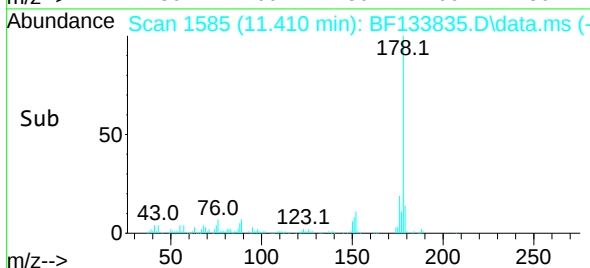
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

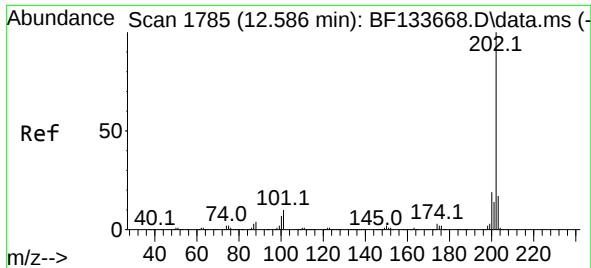


#71
Phenanthrene
Concen: 3.828 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



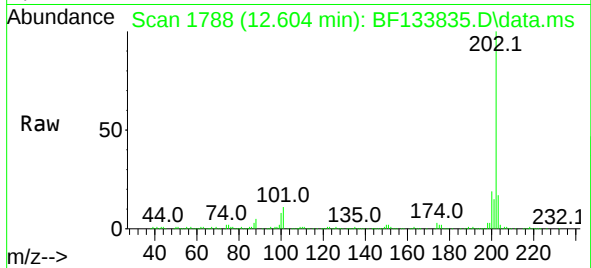
Tgt Ion:178 Resp: 55478
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 14.0 12.4 18.6





#75
Fluoranthene
Concen: 7.767 ng
RT: 12.604 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

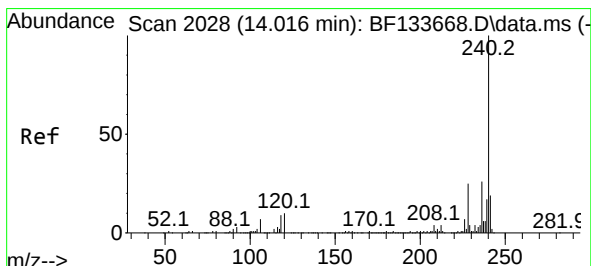
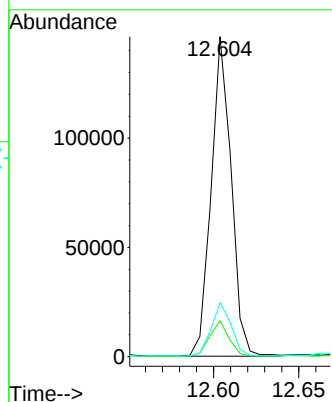
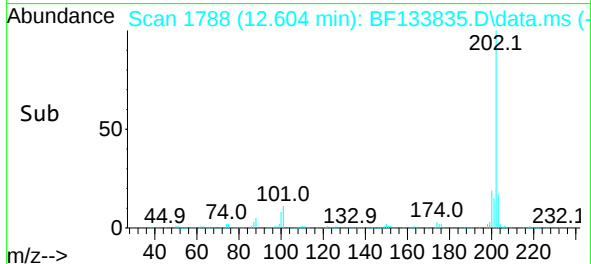
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



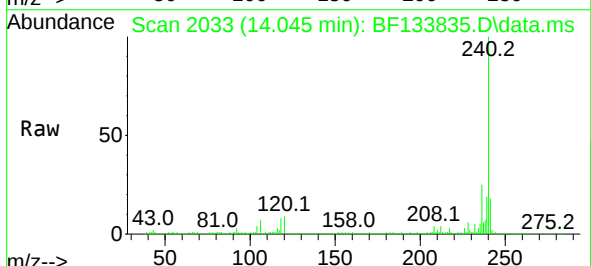
Tgt Ion:202 Resp: 119548
Ion Ratio Lower Upper
202 100
101 11.2 0.0 29.6
203 16.8 0.0 37.4

Manual Integrations
APPROVED

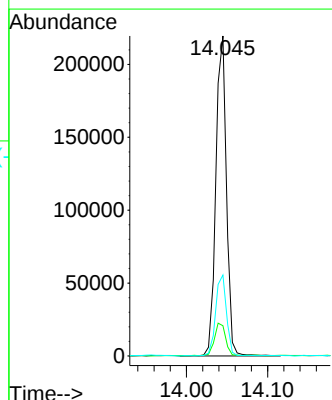
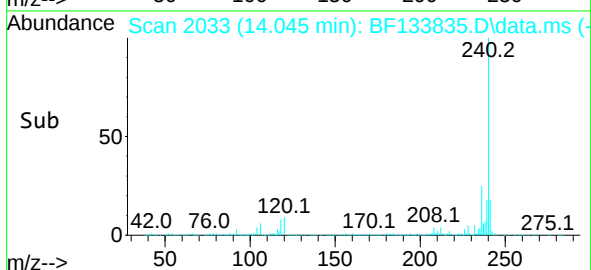
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

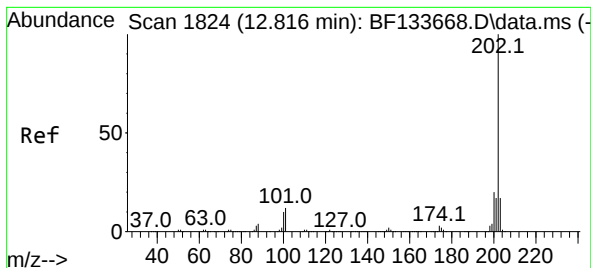


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



Tgt Ion:240 Resp: 199179
Ion Ratio Lower Upper
240 100
120 9.4 8.1 12.1
236 25.3 20.5 30.7





#78

Pyrene

Concen: 6.885 ng

RT: 12.833 min Scan# 1827

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1

Tgt Ion:202 Resp: 12774

Ion Ratio Lower Upper

202 100

200 18.8 16.2 24.2

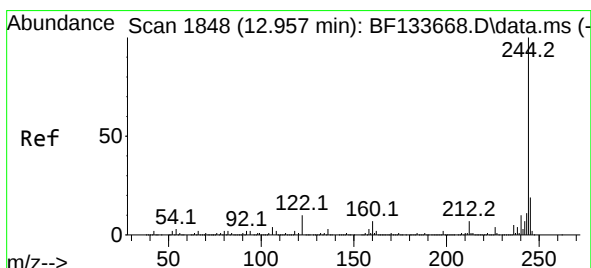
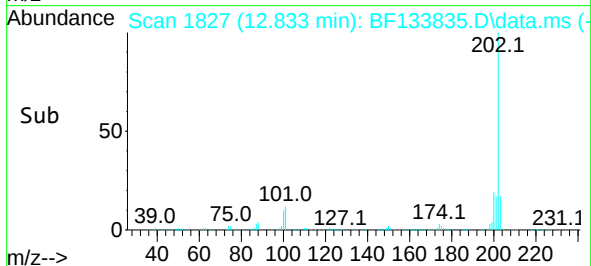
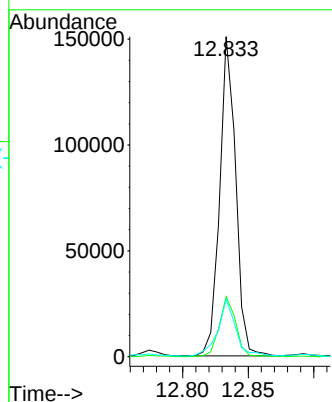
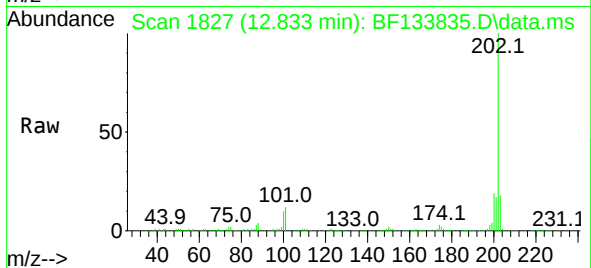
203 18.0 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/20/2023

Supervised By :mohammad ahmed 06/20/2023



#79

Terphenyl-d14

Concen: 38.485 ng

RT: 12.980 min Scan# 1852

Delta R.T. -0.006 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

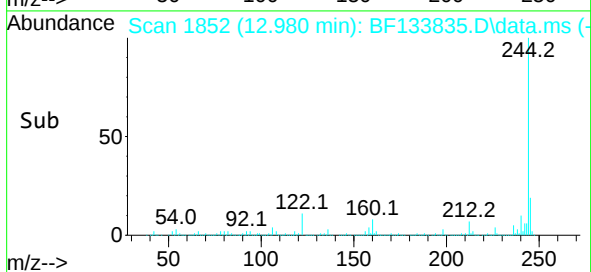
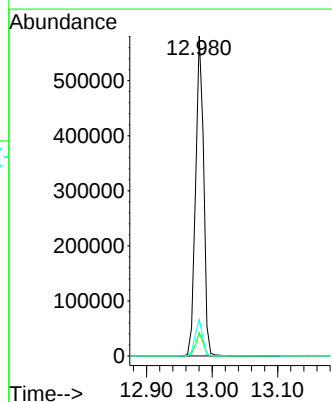
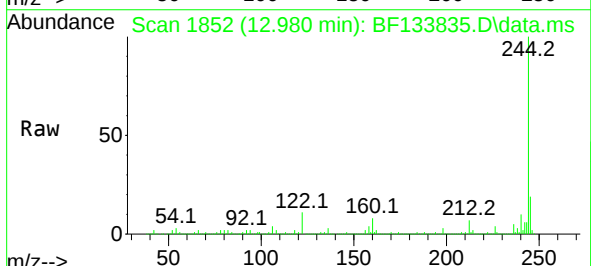
Tgt Ion:244 Resp: 495392

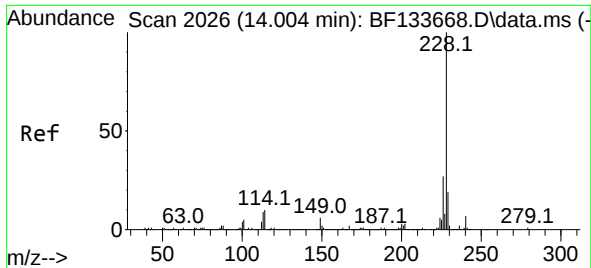
Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.2

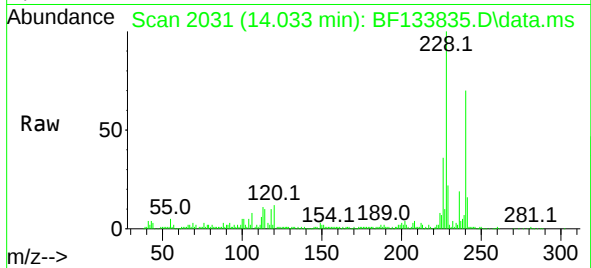
122 11.4 8.1 12.1





#81
Benzo(a)anthracene
Concen: 5.485 ng m
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

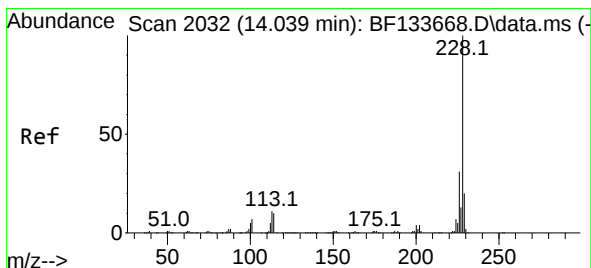
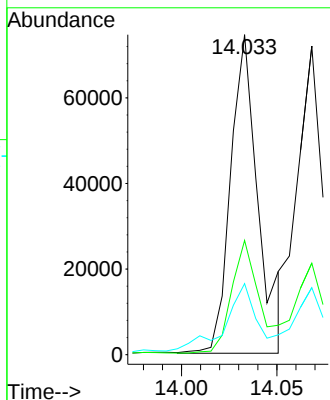
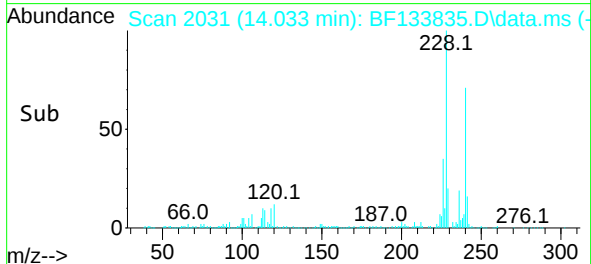
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



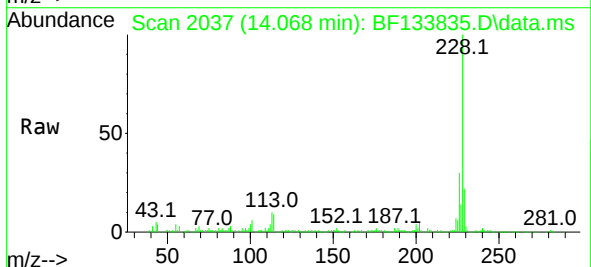
Tgt Ion:228 Resp: 75574
Ion Ratio Lower Upper
228 100
226 35.7 21.7 32.5
229 22.2 15.4 23.2

Manual Integrations
APPROVED

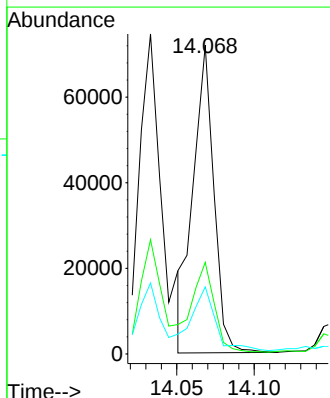
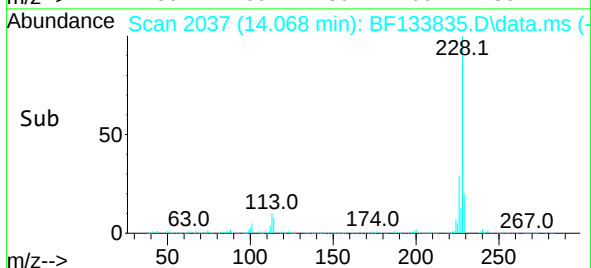
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

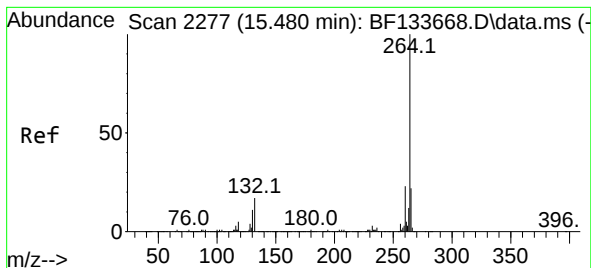


#83
Chrysene
Concen: 5.116 ng
RT: 14.068 min Scan# 2037
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



Tgt Ion:228 Resp: 66669
Ion Ratio Lower Upper
228 100
226 29.7 25.0 37.6
229 21.7 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133835.D

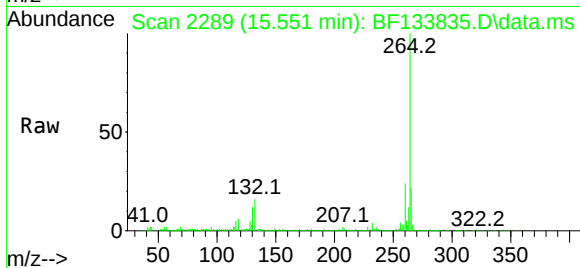
Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1



Tgt Ion:264 Resp: 231249

Ion Ratio Lower Upper

264 100

260 23.9 18.2 27.2

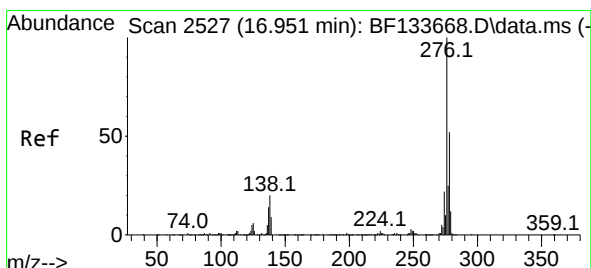
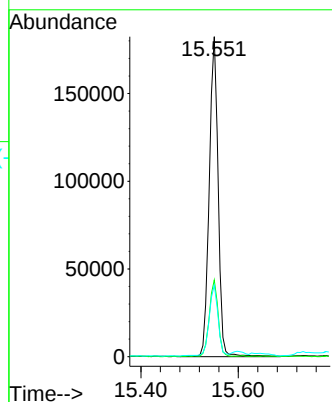
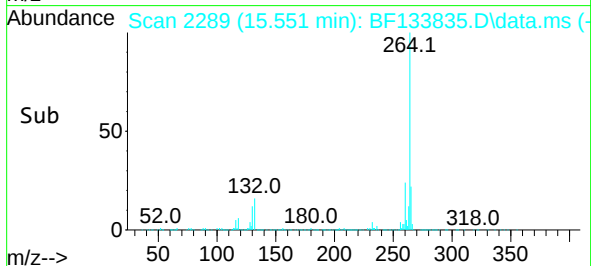
265 22.4 17.8 26.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/20/2023

Supervised By :mohammad ahmed 06/20/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.422 ng

RT: 17.092 min Scan# 2551

Delta R.T. -0.018 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

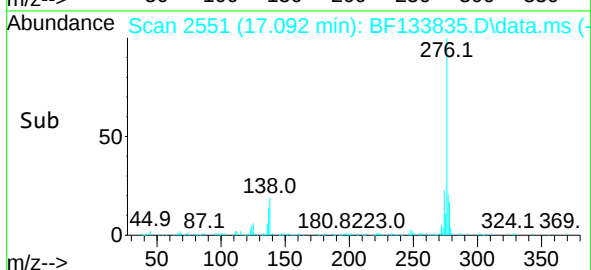
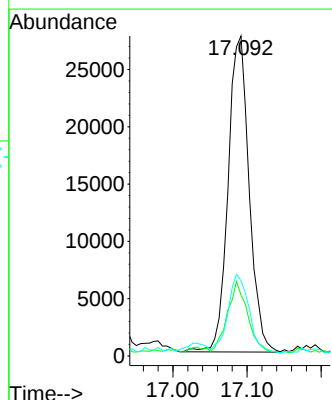
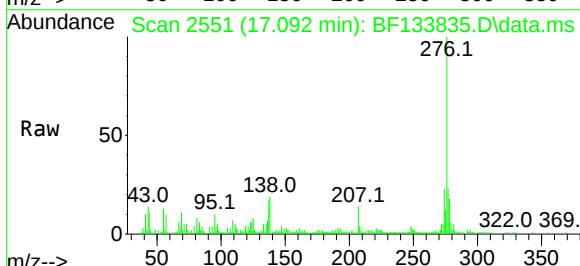
Tgt Ion:276 Resp: 54444

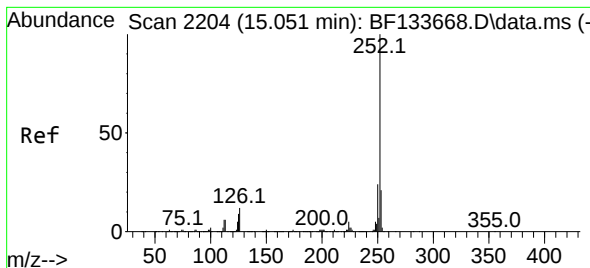
Ion Ratio Lower Upper

276 100

138 22.1 17.9 26.9

277 24.7 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 8.336 ng m

RT: 15.104 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1

Tgt Ion:252 Resp: 117090

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.6

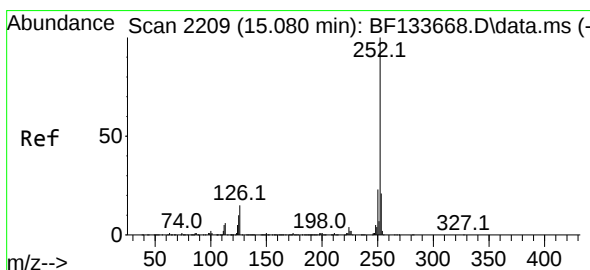
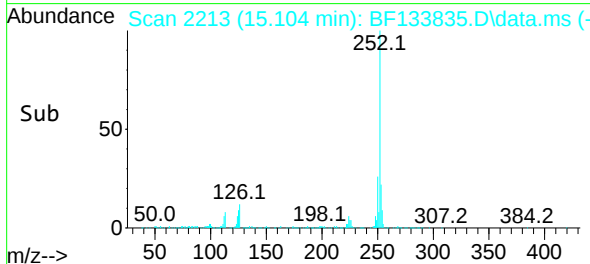
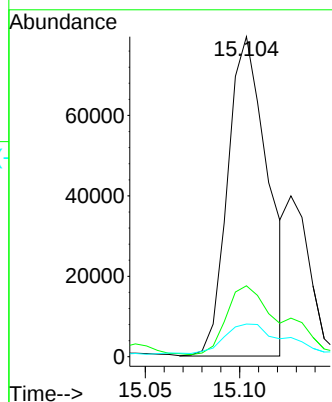
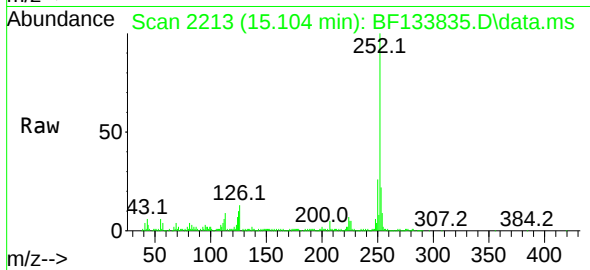
125 10.2 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/20/2023

Supervised By :mohammad ahmed 06/20/2023



#89

Benzo(k)fluoranthene

Concen: 2.520 ng m

RT: 15.127 min Scan# 2217

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

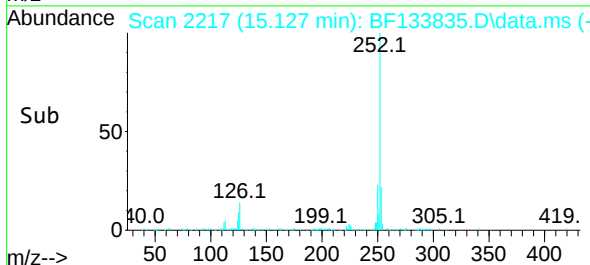
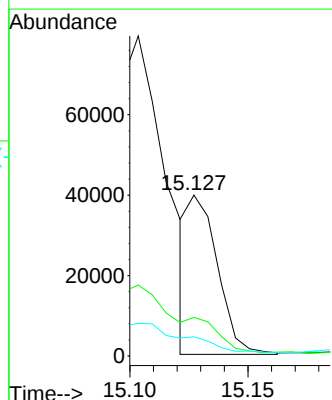
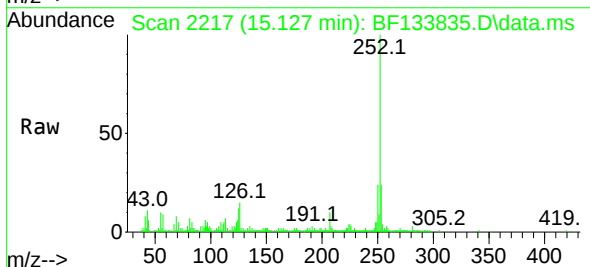
Tgt Ion:252 Resp: 34485

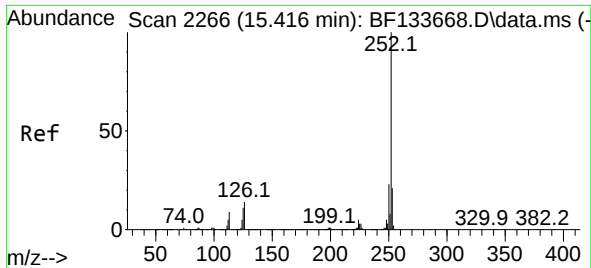
Ion Ratio Lower Upper

252 100

253 24.0 17.0 25.4

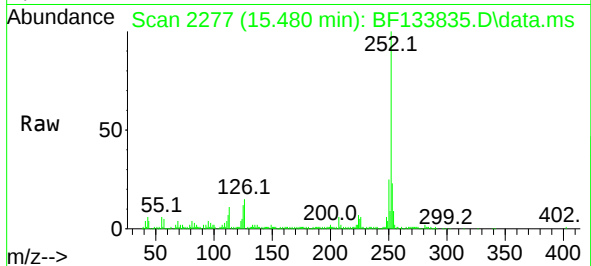
125 12.0 7.8 11.6#





#90
Benzo(a)pyrene
Concen: 6.327 ng
RT: 15.480 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

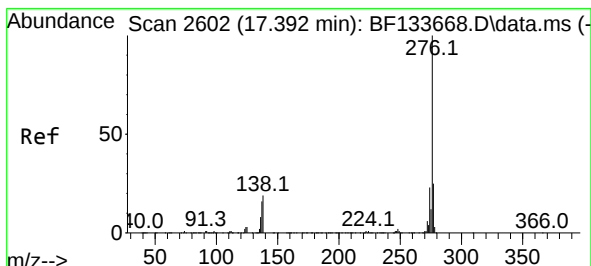
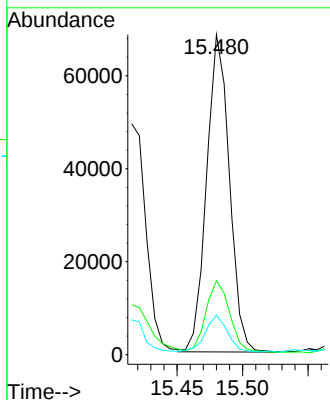
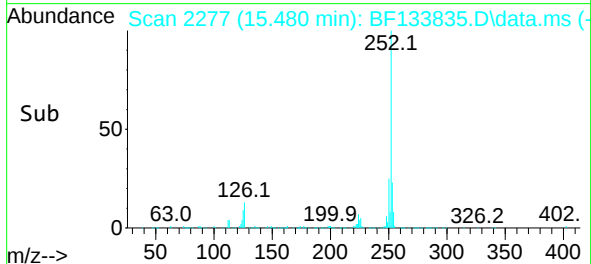
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1



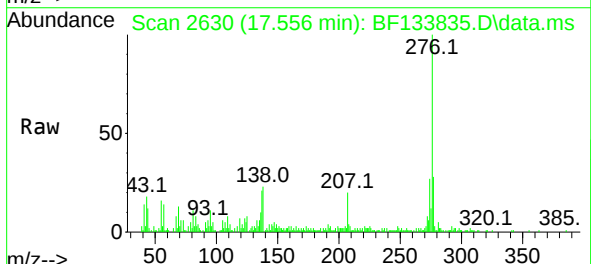
Tgt Ion:252 Resp: 82490
Ion Ratio Lower Upper
252 100
253 23.1 17.1 25.7
125 12.3 8.6 13.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023



#92
Benzo(g,h,i)perylene
Concen: 3.927 ng m
RT: 17.556 min Scan# 2630
Delta R.T. -0.030 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56



Tgt Ion:276 Resp: 51287
Ion Ratio Lower Upper
276 100
277 28.0 19.8 29.8
138 22.5 15.0 22.4#

