

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022023\
 Data File : BF132484.D
 Acq On : 20 Feb 2023 18:01
 Operator : CG\JU
 Sample : 01552-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-05-4.0-6.0

Quant Time: Feb 21 00:04:20 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 20 13:34:28 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/21/2023
 Supervised By : Jagrut Upadhyay 02/21/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.025	152	227689	20.000	ng	0.00
21) Naphthalene-d8	8.313	136	796217	20.000	ng	0.00
39) Acenaphthene-d10	10.072	164	364879	20.000	ng	0.00
64) Phenanthrene-d10	11.572	188	592034	20.000	ng	0.00
76) Chrysene-d12	14.230	240	357107	20.000	ng	# 0.00
86) Perylene-d12	15.801	264	290602	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.649	112	718254	50.547	ng	0.00
7) Phenol-d6	6.643	99	912909	49.202	ng	0.00
23) Nitrobenzene-d5	7.584	82	564430	34.062	ng	-0.01
42) 2,4,6-Tribromophenol	10.866	330	157843	43.357	ng	0.00
45) 2-Fluorobiphenyl	9.384	172	915068	38.729	ng	0.00
79) Terphenyl-d14	13.160	244	808581	41.237	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.595	178	588306	19.294	ng	99
72) Anthracene	11.648	178	149226	4.761	ng	99
73) Carbazole	11.801	167	56632	2.007	ng	99
75) Fluoranthene	12.795	202	897260	26.386	ng	100
78) Pyrene	13.025	202	874743	28.835	ng	99
81) Benzo(a)anthracene	14.219	228	400120	15.298	ng	99
83) Chrysene	14.254	228	363712	14.555	ng	98
84) Bis(2-ethylhexyl)phtha...	14.189	149	37402	2.552	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.412	276	137083	7.379	ng	96
88) Benzo(b)fluoranthene	15.330	252	371369m	19.433	ng	
89) Benzo(k)fluoranthene	15.354	252	110376m	5.772	ng	
90) Benzo(a)pyrene	15.730	252	259503	14.612	ng	97
91) Dibenzo(a,h)anthracene	17.418	278	39543	2.584	ng	# 79
92) Benzo(g,h,i)perylene	17.907	276	138370	8.806	ng	96

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

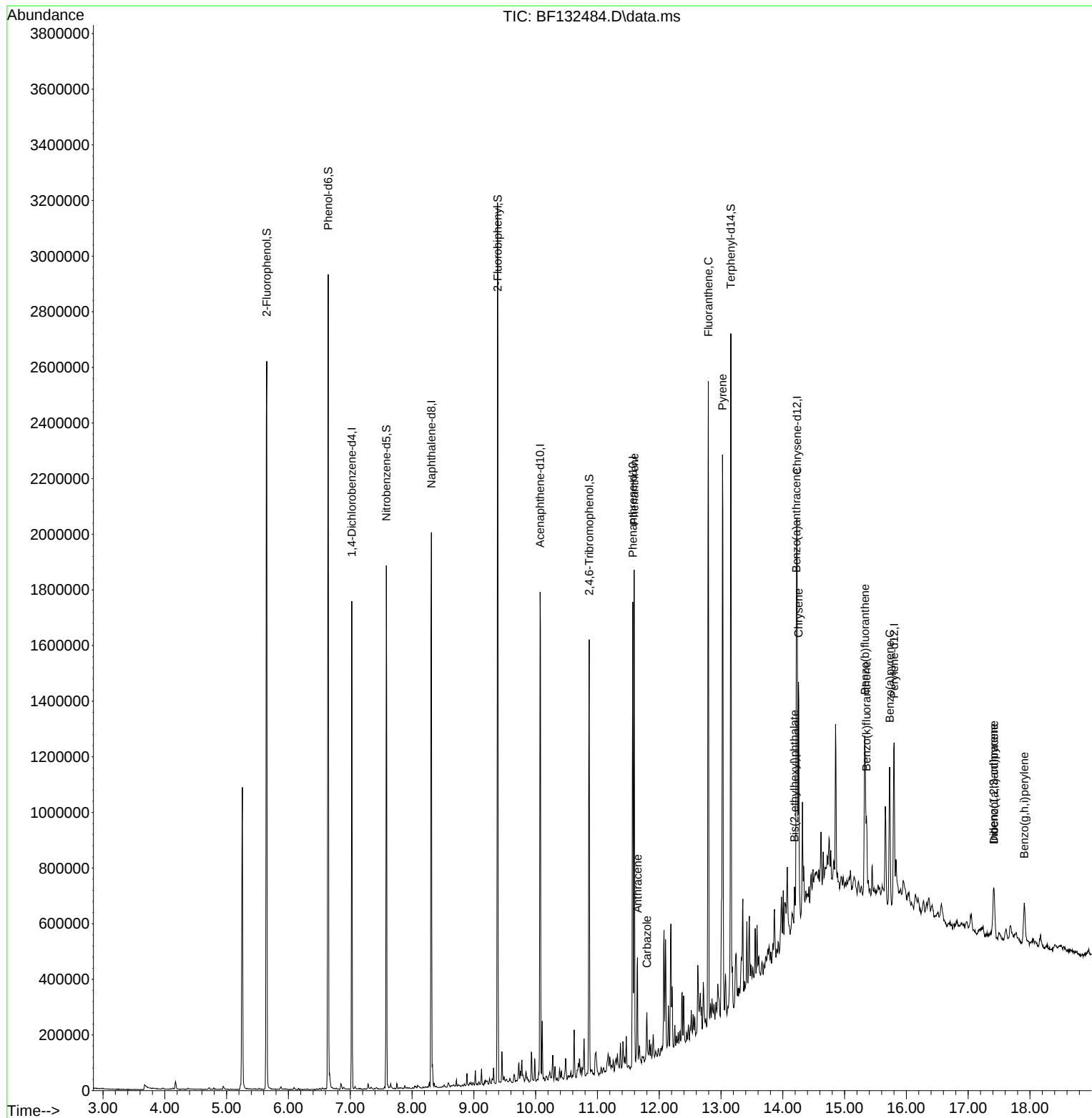
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022023\
Data File : BF132484.D
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ALS Vial : 15 Sample Multiplier: 1

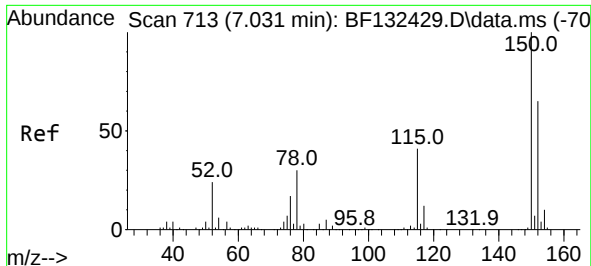
Instrument :
BNA_F
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SB-05-4.0-6.0

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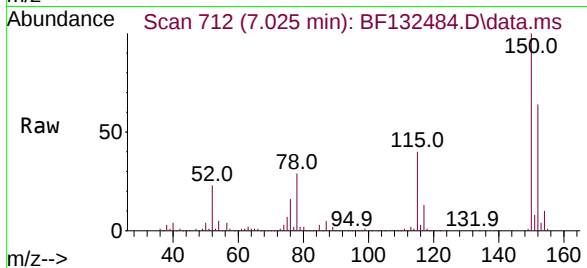
Reviewed By : Christian Giraldo 02/21/2023
Supervised By : Jagrut Upadhyay 02/21/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.025 min Scan# 713
Delta R.T. -0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

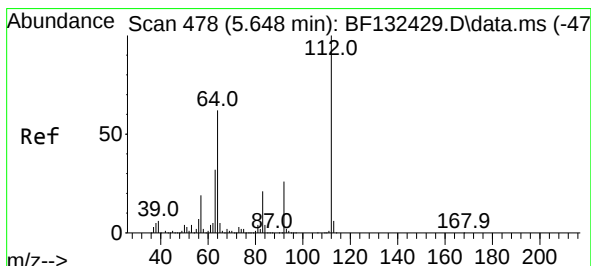
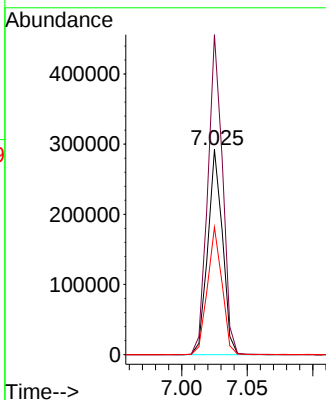
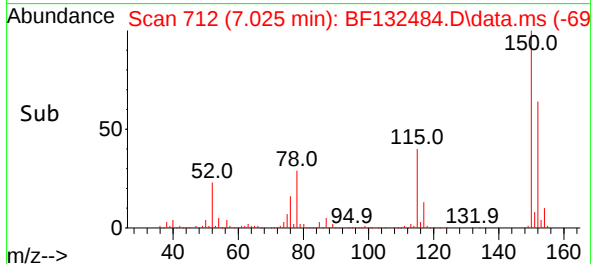
Instrument :
BNA_F
ClientSampleId :
SB-05-4.0-6.0



Tgt Ion:152 Resp: 227689
Ion Ratio Lower Upper
152 100
150 155.9 123.8 185.8
115 62.1 50.4 75.6

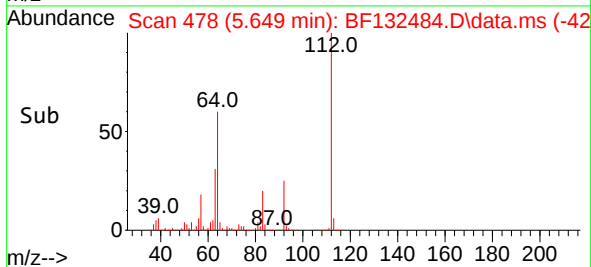
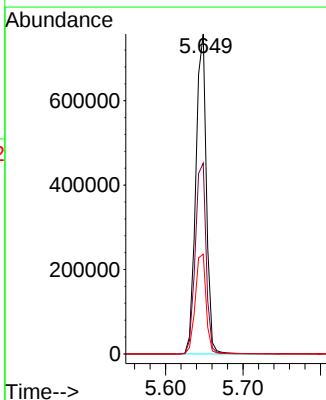
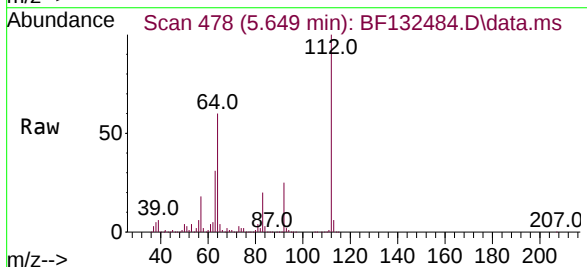
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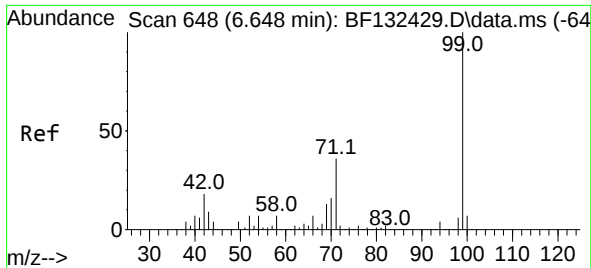
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#5
2-Fluorophenol
Concen: 50.547 ng
RT: 5.649 min Scan# 478
Delta R.T. 0.006 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Tgt Ion:112 Resp: 718254
Ion Ratio Lower Upper
112 100
64 59.6 49.7 74.5
63 31.1 25.8 38.8





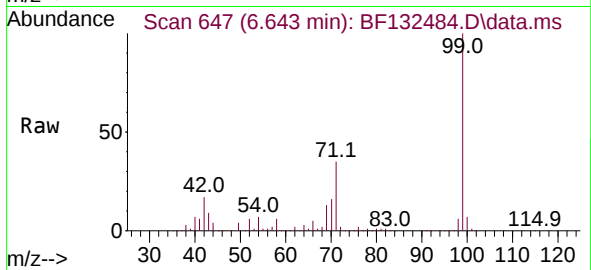
#7
Phenol-d6
Concen: 49.202 ng
RT: 6.643 min Scan# 648
Delta R.T. -0.006 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Instrument :

BNA_F

ClientSampleId :

SB-05-4.0-6.0

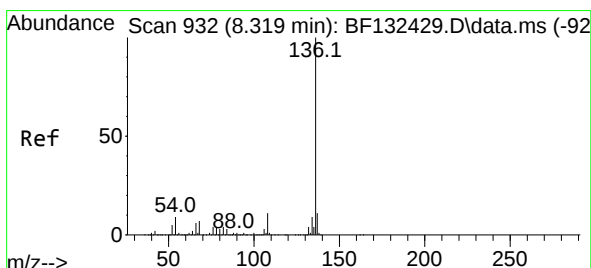
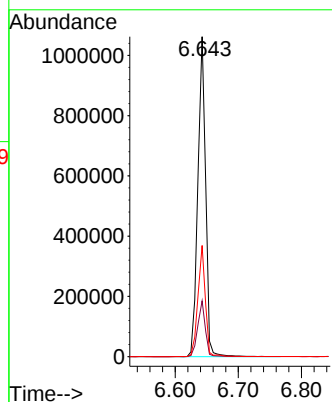
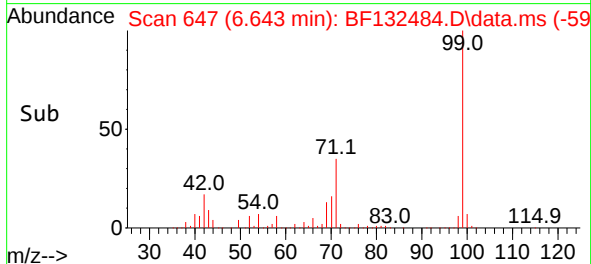


Tgt Ion: 99 Resp: 912909
Ion Ratio Lower Upper
99 100
42 17.4 14.6 21.8
71 34.7 28.7 43.1

Manual Integrations

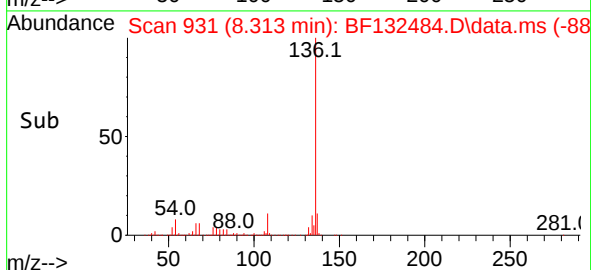
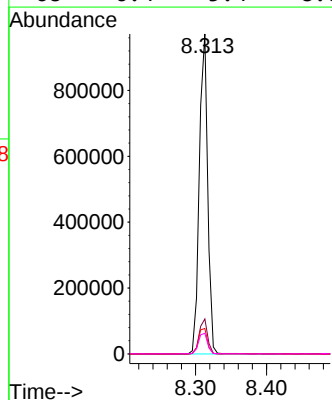
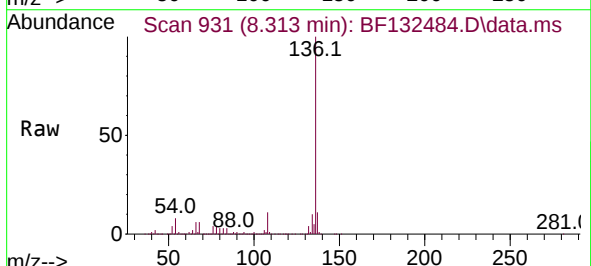
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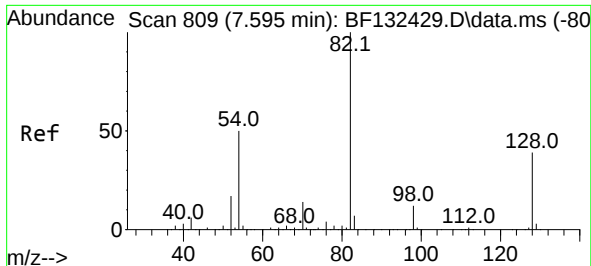
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.313 min Scan# 931
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Tgt Ion:136 Resp: 796217
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.9 6.9 10.3
68 6.4 5.4 8.0





#23

Nitrobenzene-d5

Concen: 34.062 ng

RT: 7.584 min Scan# 80

Delta R.T. -0.012 min

Lab File: BF132484.D

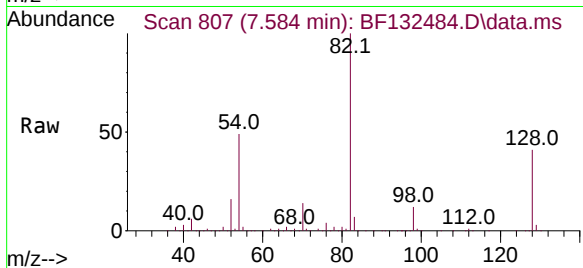
Acq: 20 Feb 2023 18:01

Instrument :

BNA_F

ClientSampleId :

SB-05-4.0-6.0



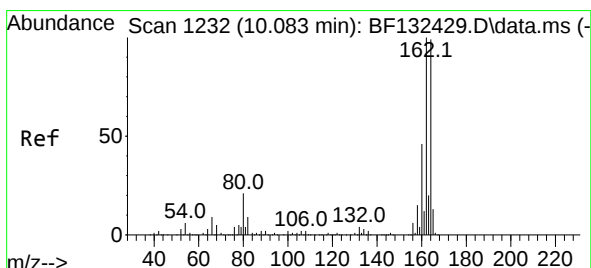
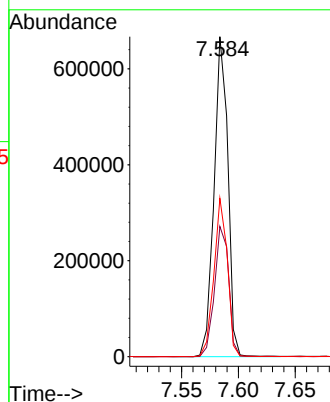
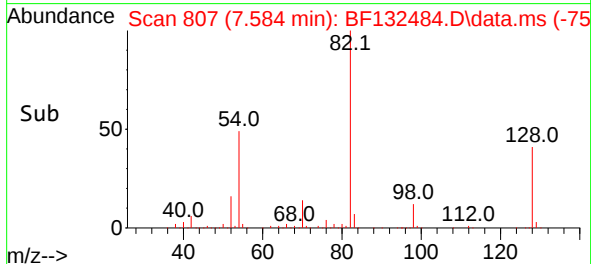
Tgt Ion: 82 Resp: 564436

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.8	46.2
54	49.5	40.2	60.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.072 min Scan# 1230

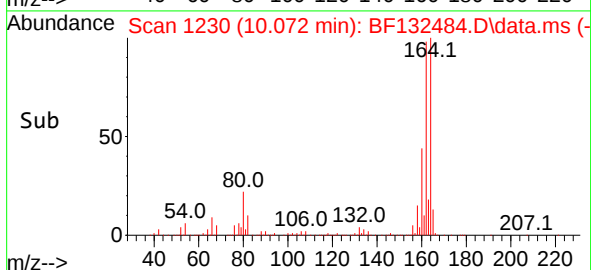
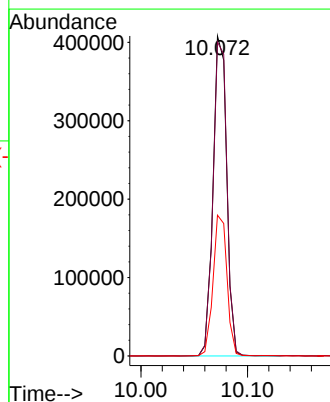
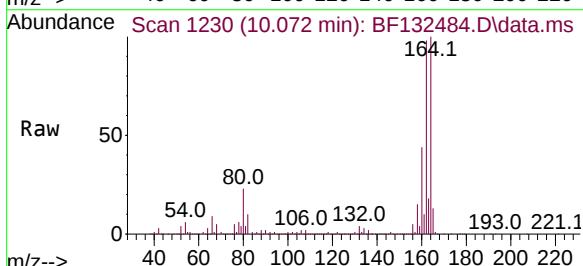
Delta R.T. -0.006 min

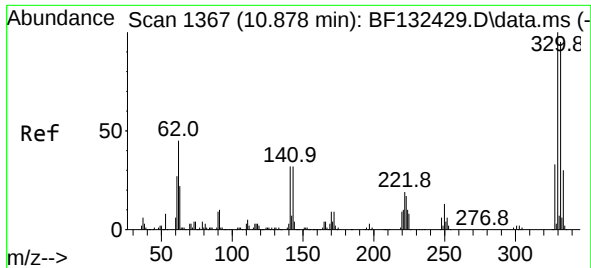
Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

Tgt Ion:164 Resp: 364879

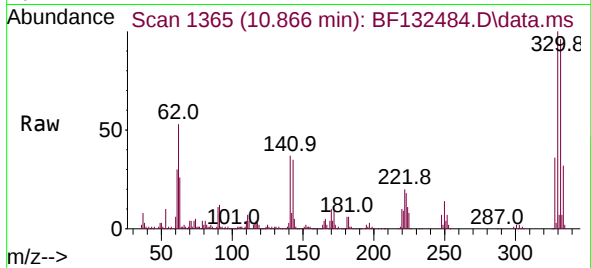
Ion	Ratio	Lower	Upper
164	100		
162	98.1	80.8	121.2
160	44.0	37.2	55.8





#42
2,4,6-Tribromophenol
Concen: 43.357 ng
RT: 10.866 min Scan# 1365
Delta R.T. -0.006 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

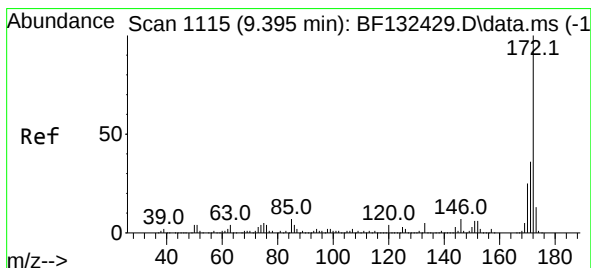
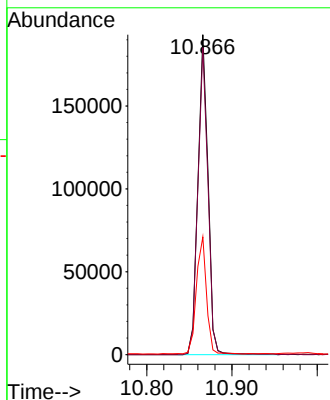
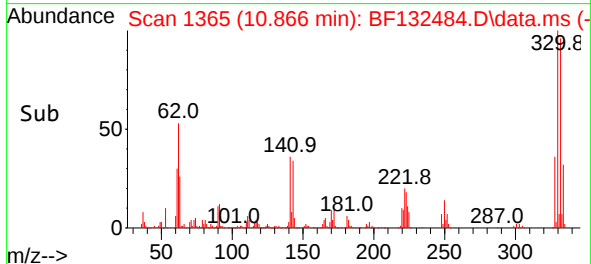
Instrument :
BNA_F
ClientSampleId :
SB-05-4.0-6.0



Tgt Ion: 330 Resp: 157843
Ion Ratio Lower Upper
330 100
332 96.0 76.3 114.5
141 37.2 30.3 45.5

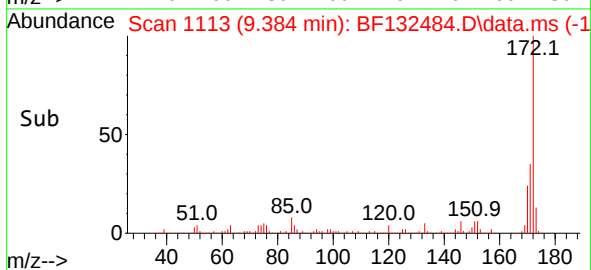
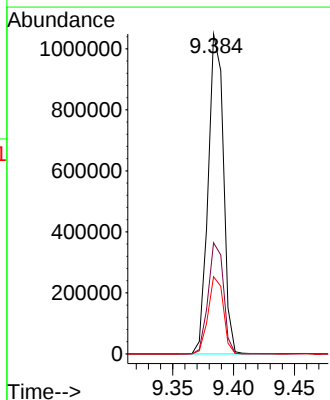
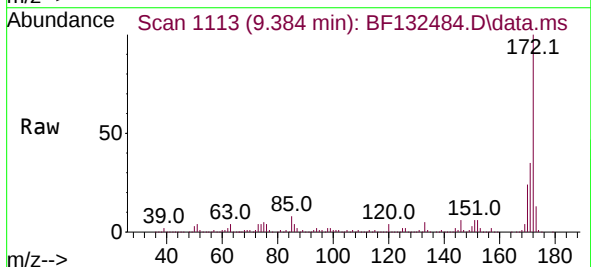
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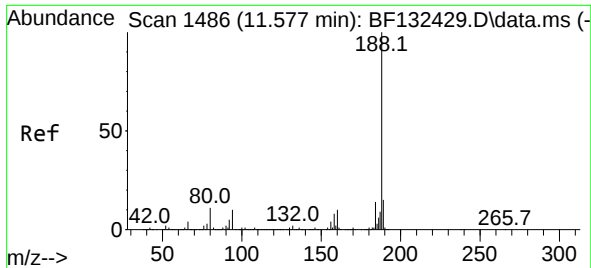
Reviewed By : Christian Giraldo 02/21/2023
Supervised By : Jagrut Upadhyay 02/21/2023



#45
2-Fluorobiphenyl
Concen: 38.729 ng
RT: 9.384 min Scan# 1113
Delta R.T. -0.006 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

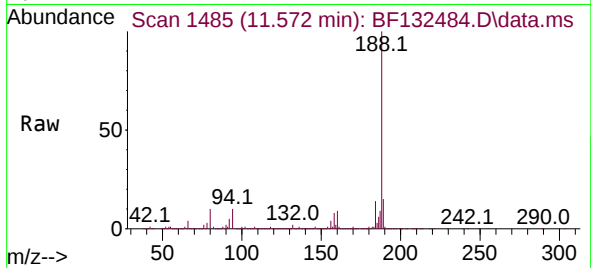
Tgt Ion: 172 Resp: 915068
Ion Ratio Lower Upper
172 100
171 34.7 28.6 42.8
170 24.1 19.9 29.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.572 min Scan# 1486
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

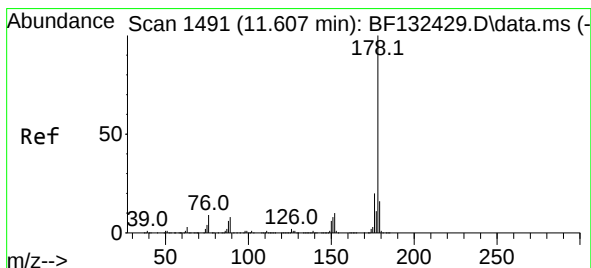
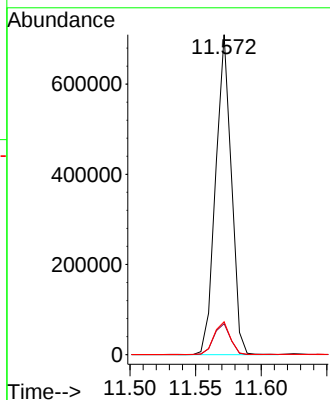
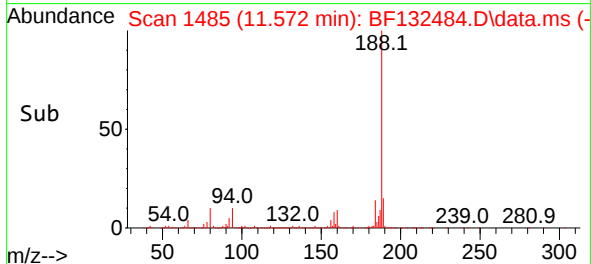
Instrument :
BNA_F
ClientSampleId :
SB-05-4.0-6.0



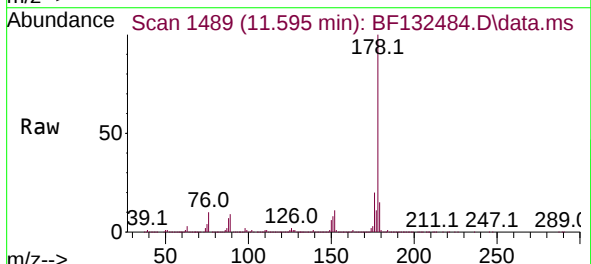
Tgt Ion:188 Resp: 592034
Ion Ratio Lower Upper
188 100
94 9.7 8.0 12.0
80 10.3 8.6 12.8

Manual Integrations
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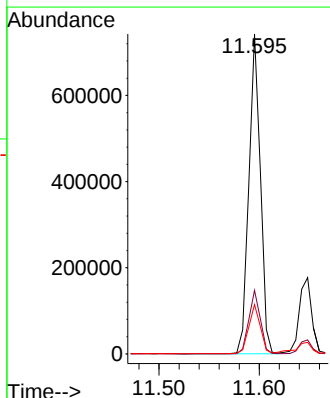
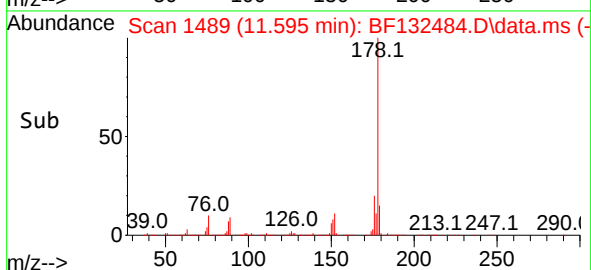
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

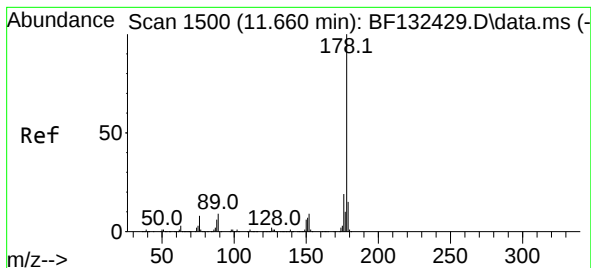


#71
Phenanthrene
Concen: 19.294 ng
RT: 11.595 min Scan# 1489
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01



Tgt Ion:178 Resp: 588306
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.2
179 15.4 12.6 18.8





#72

Anthracene

Concen: 4.761 ng

RT: 11.648 min Scan# 14

Delta R.T. 0.000 min

Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

Instrument :

BNA_F

ClientSampleId :

SB-05-4.0-6.0

Tgt Ion:178 Resp: 149226

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

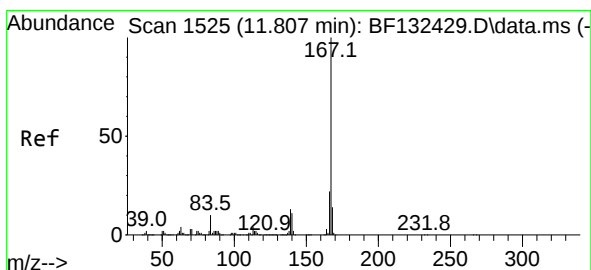
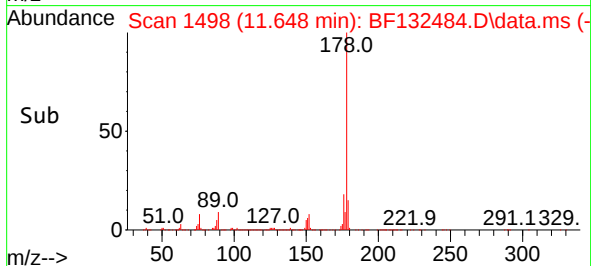
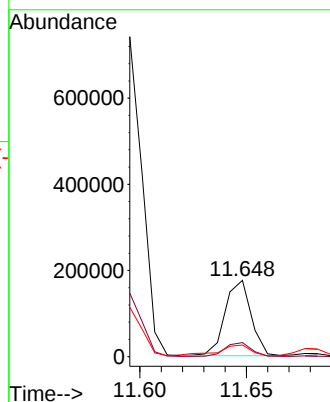
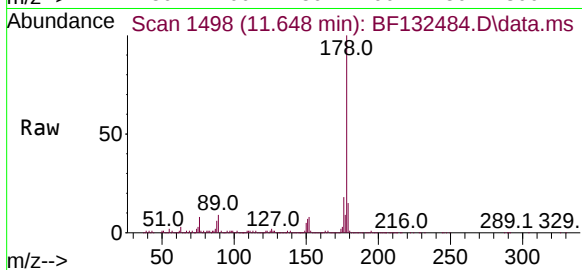
179 15.3 12.4 18.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 02/21/2023



#73

Carbazole

Concen: 2.007 ng

RT: 11.801 min Scan# 1524

Delta R.T. 0.000 min

Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

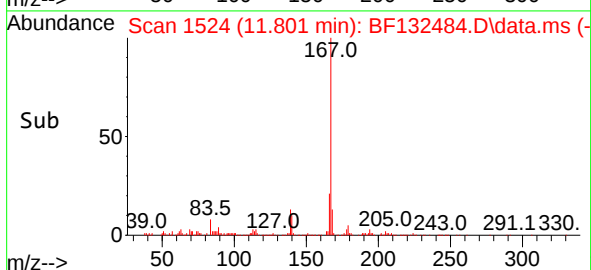
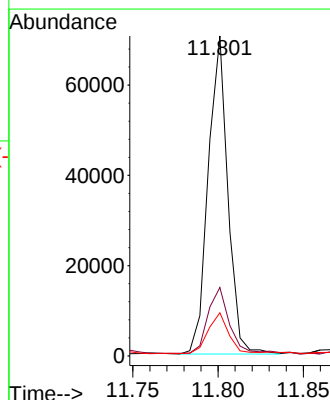
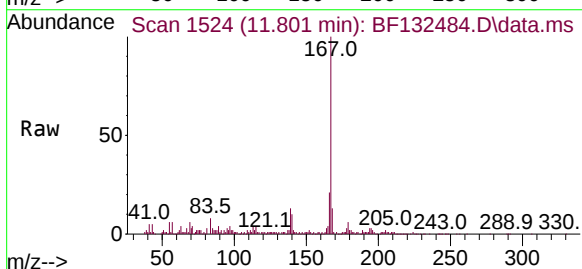
Tgt Ion:167 Resp: 56632

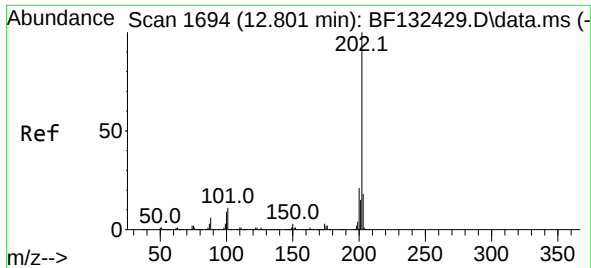
Ion Ratio Lower Upper

167 100

166 21.4 17.8 26.8

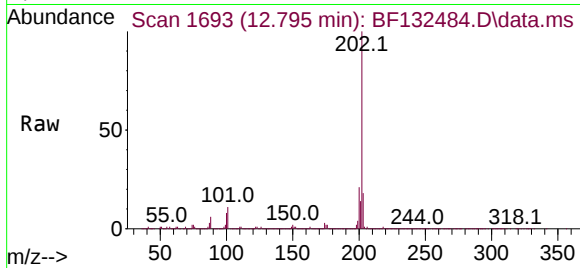
139 13.5 10.7 16.1





#75
Fluoranthene
Concen: 26.386 ng
RT: 12.795 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

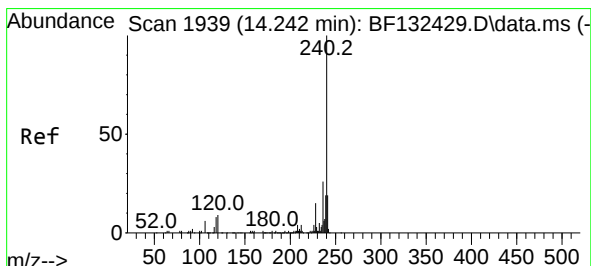
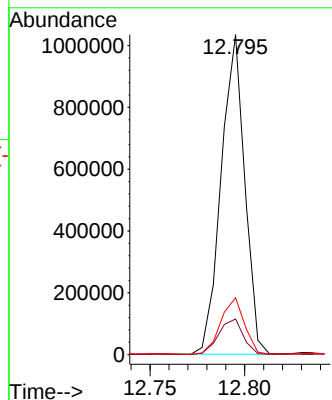
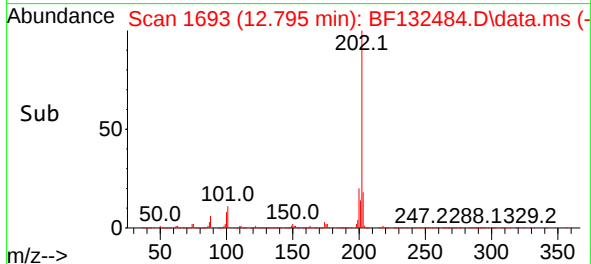
Instrument :
BNA_F
ClientSampleId :
SB-05-4.0-6.0



Tgt Ion:202 Resp: 897260
Ion Ratio Lower Upper
202 100
101 11.1 0.0 31.3
203 17.8 0.0 37.8

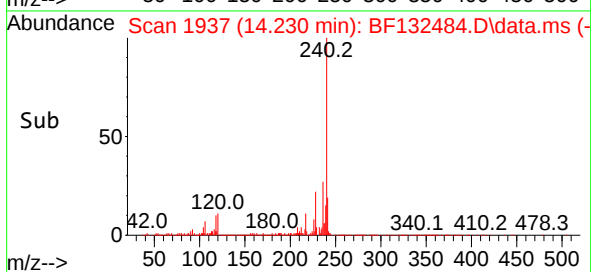
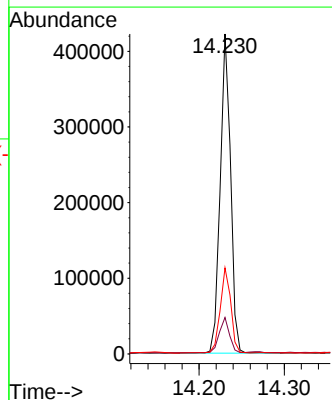
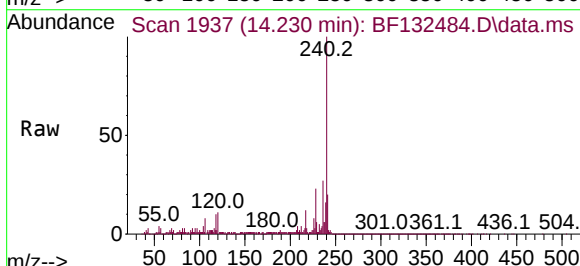
Manual Integrations
APPROVED

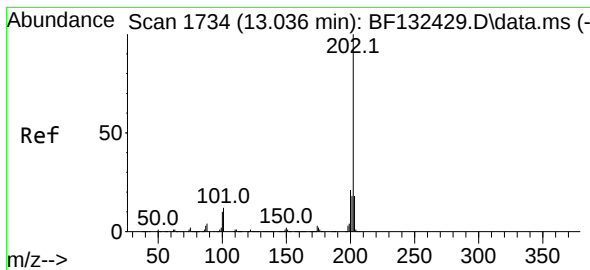
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.230 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

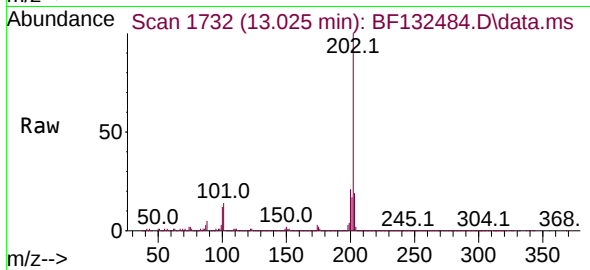
Tgt Ion:240 Resp: 357107
Ion Ratio Lower Upper
240 100
120 11.4 7.5 11.3#
236 26.9 21.0 31.6





#78
 Pyrene
 Concen: 28.835 ng
 RT: 13.025 min Scan# 1732
 Delta R.T. 0.000 min
 Lab File: BF132484.D
 Acq: 20 Feb 2023 18:01

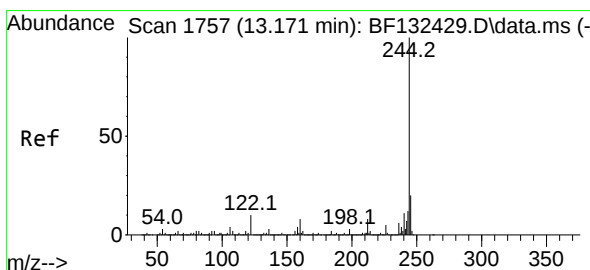
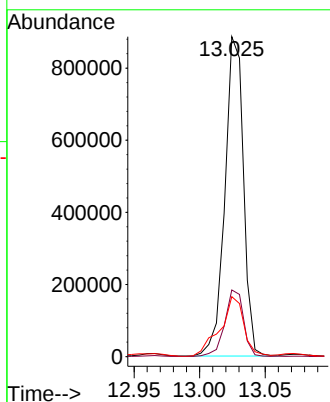
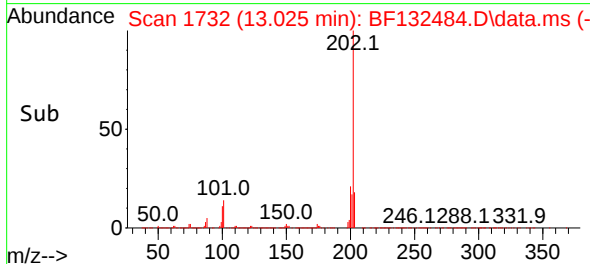
Instrument :
 BNA_F
 ClientSampleId :
 SB-05-4.0-6.0



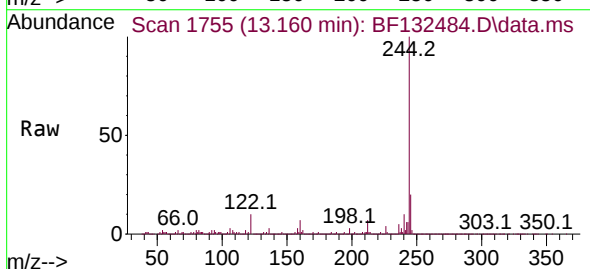
Tgt Ion:202 Resp: 874743
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.6 25.0
 203 18.7 14.3 21.5

Manual Integrations
 APPROVED

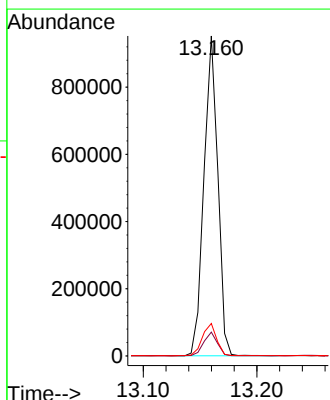
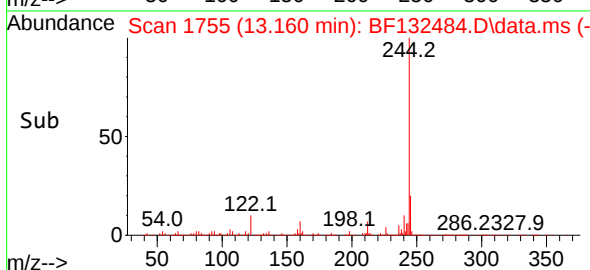
Reviewed By :Christian Giraldo 02/21/2023
 Supervised By :Jagrut Upadhyay 02/21/2023

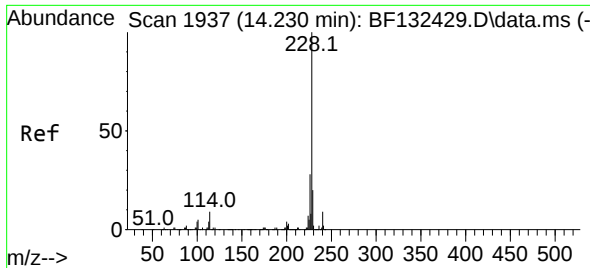


#79
 Terphenyl-d14
 Concen: 41.237 ng
 RT: 13.160 min Scan# 1755
 Delta R.T. 0.000 min
 Lab File: BF132484.D
 Acq: 20 Feb 2023 18:01



Tgt Ion:244 Resp: 808581
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.7 10.1
 122 10.1 7.7 11.5





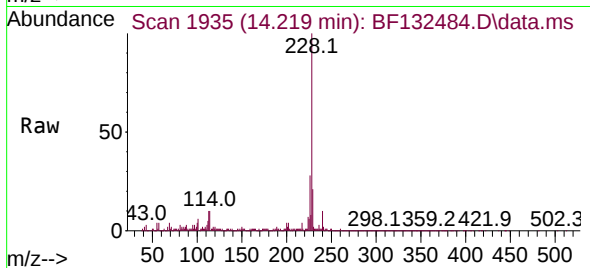
#81
Benzo(a)anthracene
Concen: 15.298 ng
RT: 14.219 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Instrument :

BNF

ClientSampleId :

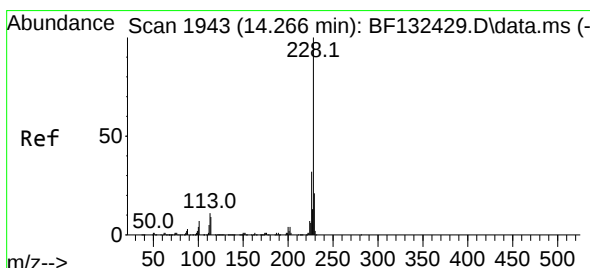
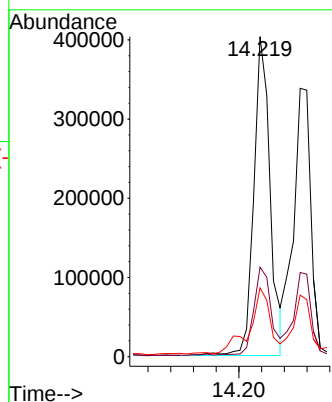
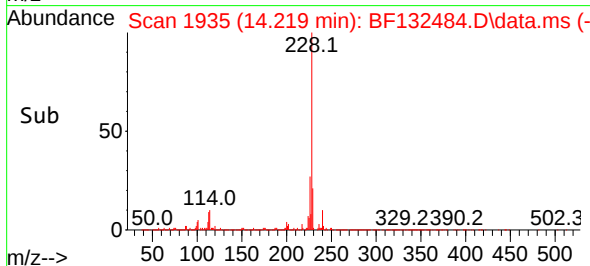
SB-05-4.0-6.0



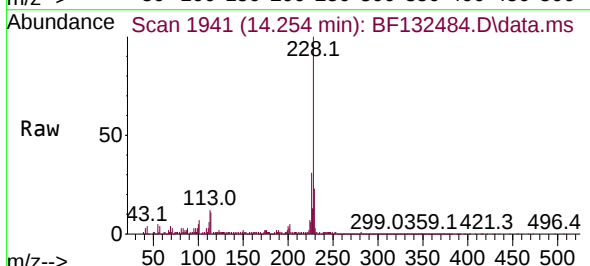
Tgt Ion:228 Resp: 400120
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 21.5 16.2 24.4

Manual Integrations
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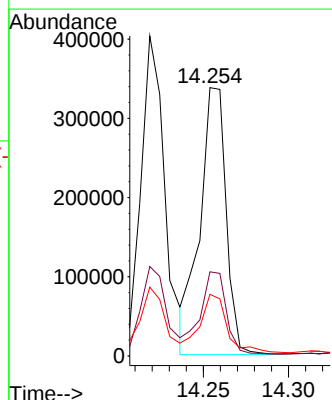
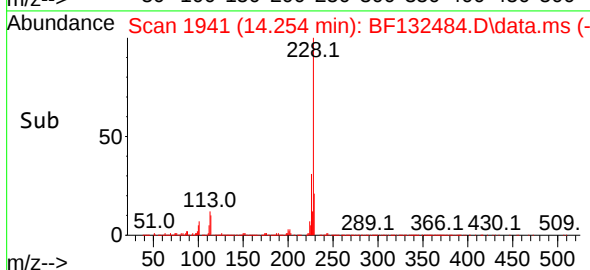
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

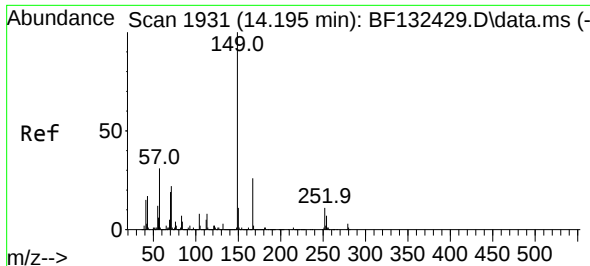


#83
Chrysene
Concen: 14.555 ng
RT: 14.254 min Scan# 1941
Delta R.T. -0.006 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01



Tgt Ion:228 Resp: 363712
Ion Ratio Lower Upper
228 100
226 31.4 25.4 38.2
229 22.9 16.6 25.0





#84
Bis(2-ethylhexyl)phthalate
Concen: 2.552 ng
RT: 14.189 min Scan# 1931
Delta R.T. 0.000 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Instrument :

BNA_F

ClientSampleId :

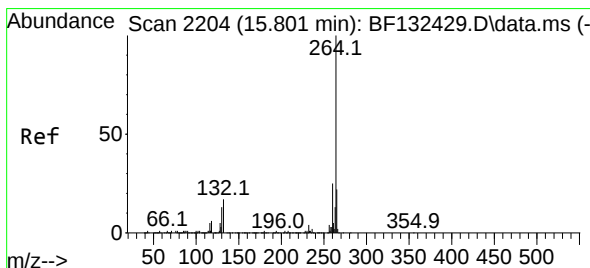
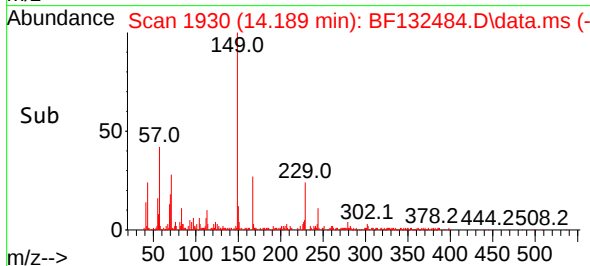
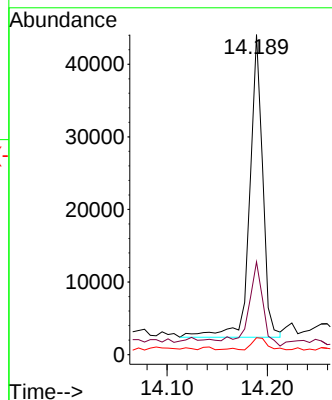
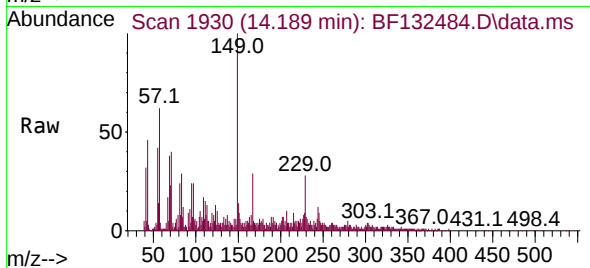
SB-05-4.0-6.0

Tgt Ion:149 Resp: 37402
Ion Ratio Lower Upper
149 100
167 29.0 21.0 31.6
279 5.3 2.5 3.7

Manual Integrations

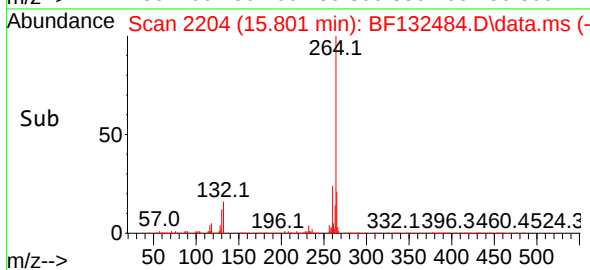
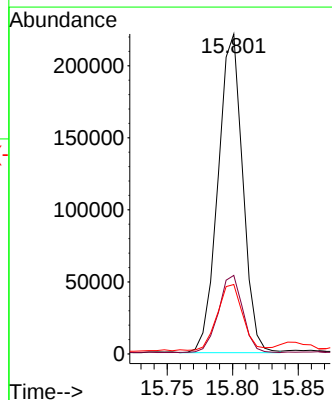
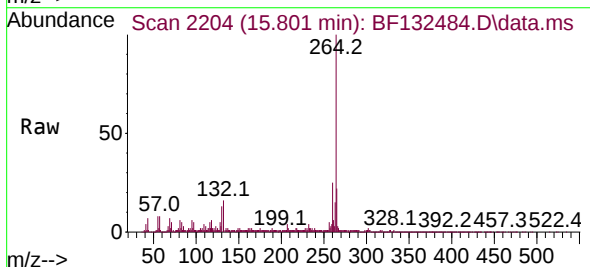
APPROVED

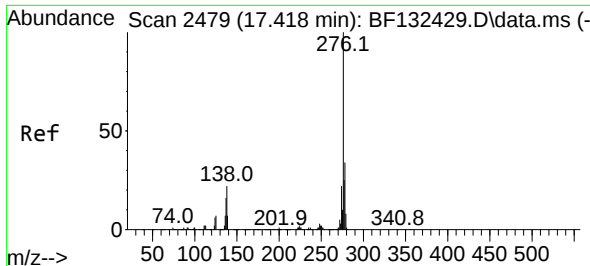
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.801 min Scan# 2204
Delta R.T. 0.018 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Tgt Ion:264 Resp: 290602
Ion Ratio Lower Upper
264 100
260 24.5 20.0 30.0
265 21.7 17.2 25.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 7.379 ng
RT: 17.412 min Scan# 2479
Delta R.T. 0.012 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Instrument :

BNA_F

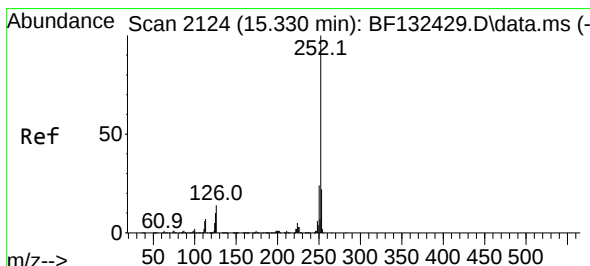
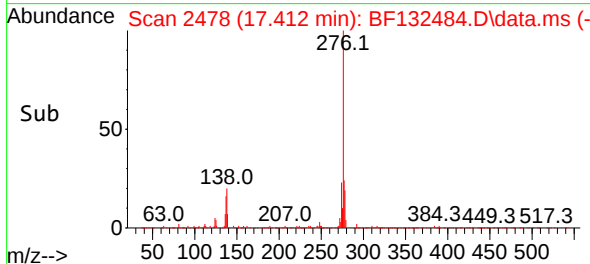
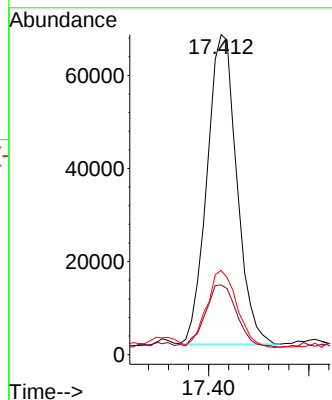
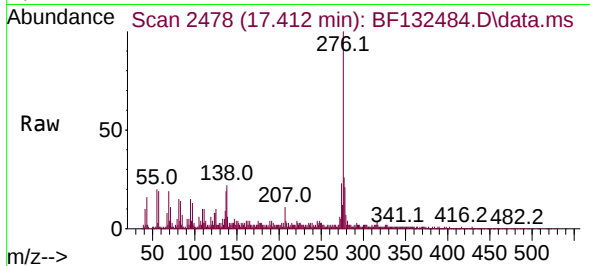
ClientSampleId :

SB-05-4.0-6.0

Tgt Ion:276 Resp: 137083
Ion Ratio Lower Upper
276 100
138 21.3 20.2 30.4
277 25.4 20.0 30.0

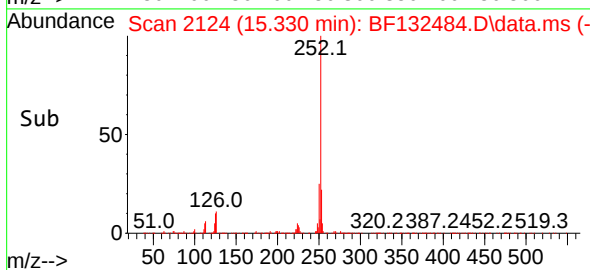
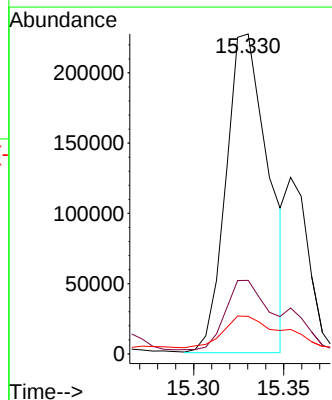
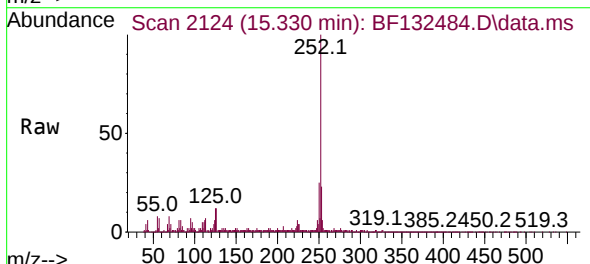
Manual Integrations
APPROVED

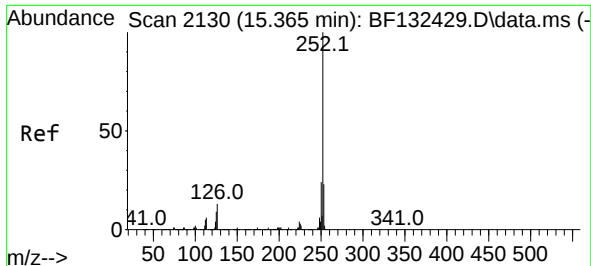
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#88
Benzo(b)fluoranthene
Concen: 19.433 ng m
RT: 15.330 min Scan# 2124
Delta R.T. 0.012 min
Lab File: BF132484.D
Acq: 20 Feb 2023 18:01

Tgt Ion:252 Resp: 371369
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 11.8 7.6 11.4





#89

Benzo(k)fluoranthene

Concen: 5.772 ng m

RT: 15.354 min Scan# 2130

Delta R.T. 0.000 min

Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

Instrument :

BNF

ClientSampleId :

SB-05-4.0-6.0

Tgt Ion:252 Resp: 110376

Ion Ratio Lower Upper

252 100

253 26.0 18.2 27.2

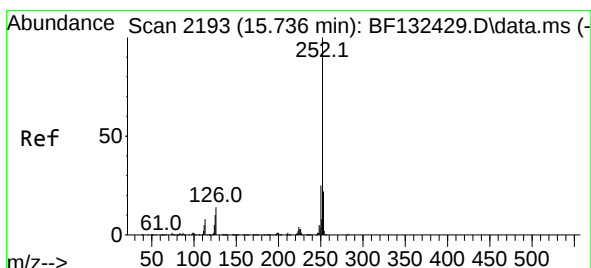
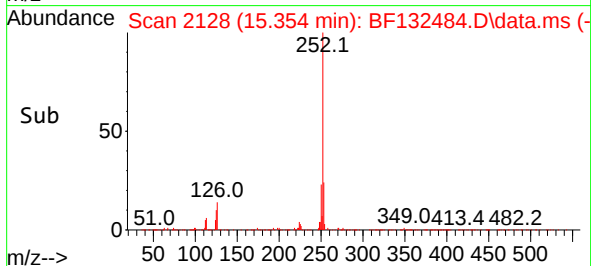
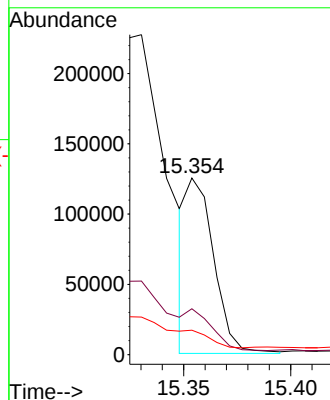
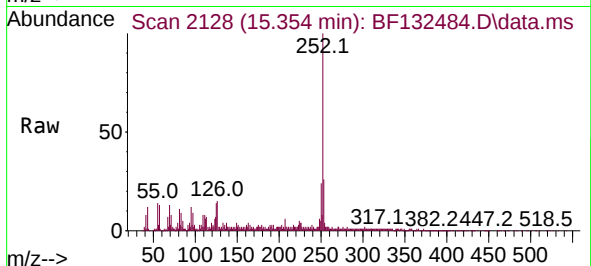
125 13.8 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/21/2023

Supervised By :Jagrut Upadhyay 02/21/2023



#90

Benzo(a)pyrene

Concen: 14.612 ng

RT: 15.730 min Scan# 2192

Delta R.T. 0.012 min

Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

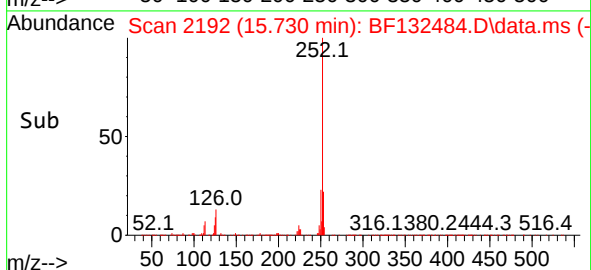
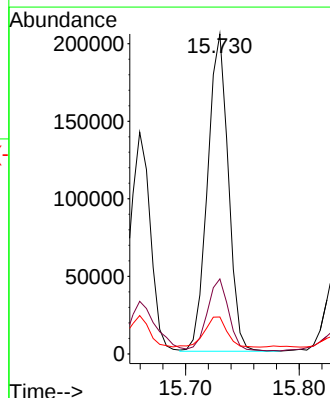
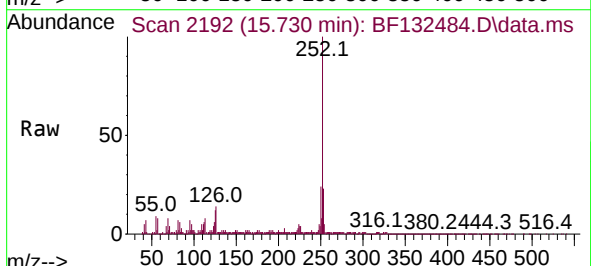
Tgt Ion:252 Resp: 259503

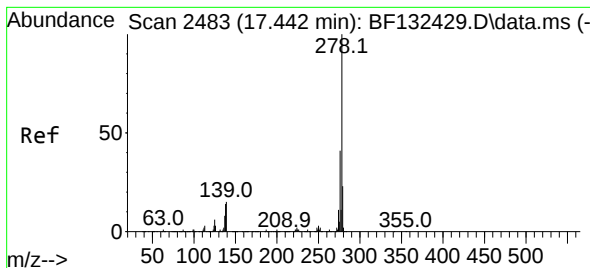
Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

125 11.5 8.2 12.4





#91

Dibenzo(a,h)anthracene

Concen: 2.584 ng

RT: 17.418 min Scan# 2483

Delta R.T. 0.000 min

Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

Instrument :

BNF_F

ClientSampleId :

SB-05-4.0-6.0

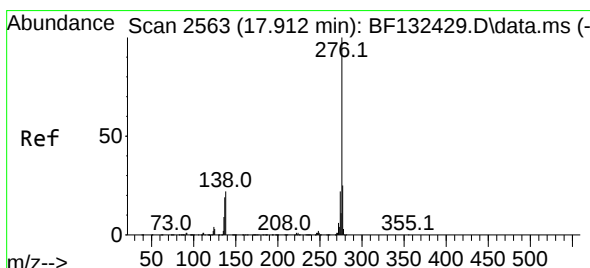
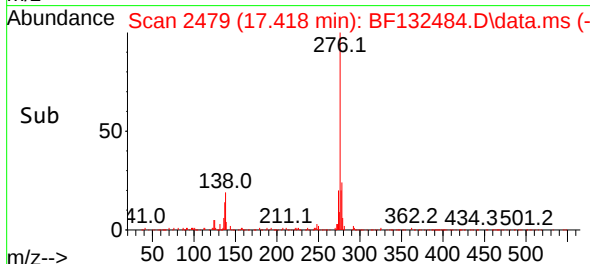
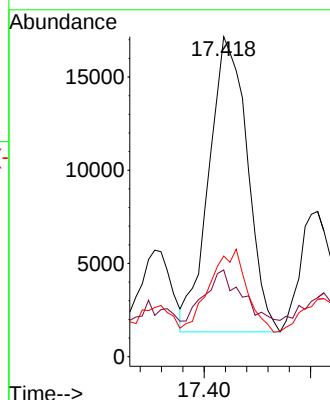
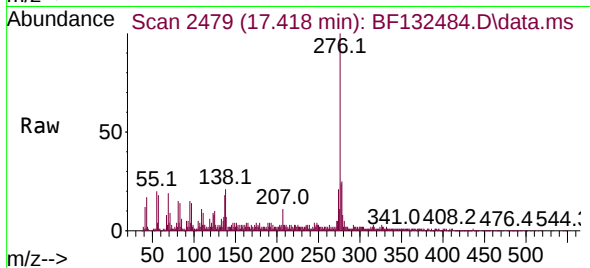
Tgt Ion:	278	Resp:	3954
Ion Ratio	Lower	Upper	
278	100		
139	27.1	12.2	18.2
279	31.4	18.8	28.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/21/2023

Supervised By :Jagrut Upadhyay 02/21/2023



#92

Benzo(g,h,i)perylene

Concen: 8.806 ng

RT: 17.907 min Scan# 2562

Delta R.T. 0.012 min

Lab File: BF132484.D

Acq: 20 Feb 2023 18:01

Tgt Ion:	276	Resp:	138370
Ion Ratio	Lower	Upper	
276	100		
277	26.1	19.6	29.4
138	24.8	17.7	26.5

