

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022023\
 Data File : BF132482.D
 Acq On : 20 Feb 2023 16:56
 Operator : CG\JU
 Sample : 01552-03
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C0159

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/22/2023
 Supervised By : Jagrut Upadhyay 02/22/2023

Supervised By : Jagrut
 Upadhyay
 02/22/2023

Quant Time: Feb 20 17:19:30 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.025	152	217710	20.000	ng	0.00
21) Naphthalene-d8	8.313	136	749061	20.000	ng	0.00
39) Acenaphthene-d10	10.078	164	343332	20.000	ng	0.00
64) Phenanthrene-d10	11.572	188	532343	20.000	ng	0.00
76) Chrysene-d12	14.230	240	331405	20.000	ng	# 0.00
86) Perylene-d12	15.801	264	265067	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.648	112	1212086	89.211	ng	0.00
7) Phenol-d6	6.648	99	1536023	86.580	ng	0.00
23) Nitrobenzene-d5	7.590	82	995446	63.854	ng	0.00
42) 2,4,6-Tribromophenol	10.866	330	280157	81.784	ng	0.00
45) 2-Fluorobiphenyl	9.389	172	1482493	66.682	ng	0.00
79) Terphenyl-d14	13.160	244	1289842	70.882	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.331	128	96877	2.492	ng	# 93
49) Acenaphthylene	9.936	152	205840	6.211	ng	99
52) Acenaphthene	10.107	154	48833	2.368	ng	99
58) Fluorene	10.625	166	94700	4.094	ng	95
71) Phenanthrene	11.595	178	1104818	40.296	ng	100
72) Anthracene	11.648	178	238014	8.445	ng	99
73) Carbazole	11.801	167	64894	2.558	ng	97
75) Fluoranthene	12.795	202	1298648	42.472	ng	98
78) Pyrene	13.030	202	1360988	48.343	ng	99
81) Benzo(a)anthracene	14.224	228	623396	25.683	ng	94
83) Chrysene	14.260	228	597650	25.771	ng	98
84) Bis(2-ethylhexyl)phtha...	14.189	149	45479	3.344	ng	# 93
87) Indeno(1,2,3-cd)pyrene	17.412	276	212236	12.526	ng	96
88) Benzo(b)fluoranthene	15.330	252	531825m	30.510	ng	
89) Benzo(k)fluoranthene	15.354	252	169795m	9.734	ng	
90) Benzo(a)pyrene	15.730	252	387787	23.939	ng	97
91) Dibenzo(a,h)anthracene	17.424	278	59528	4.265	ng	# 84
92) Benzo(g,h,i)perylene	17.907	276	225756	15.752	ng	100

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

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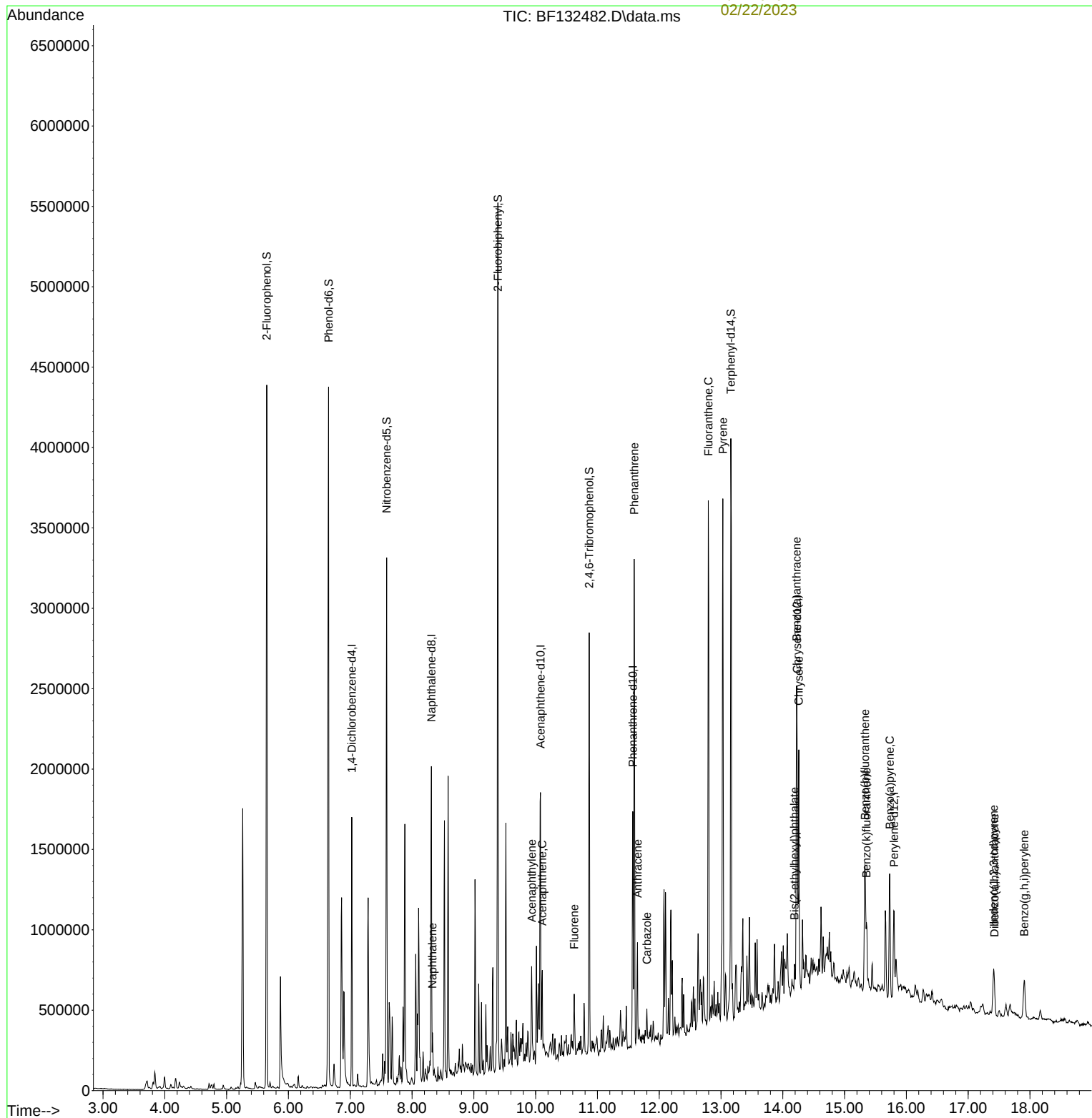
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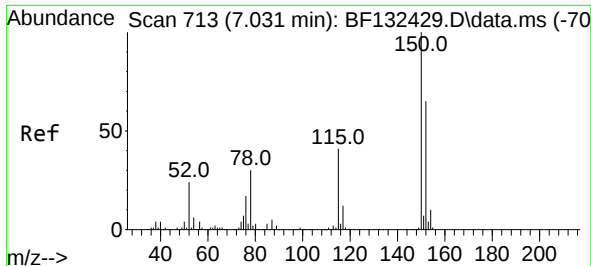
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021623.M
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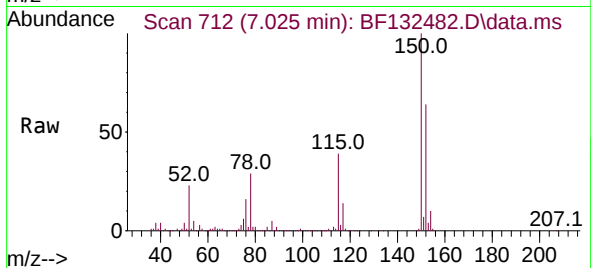
Supervised By :Jagrut
Upadhyay
02/22/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.025 min Scan# 713
Delta R.T. -0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

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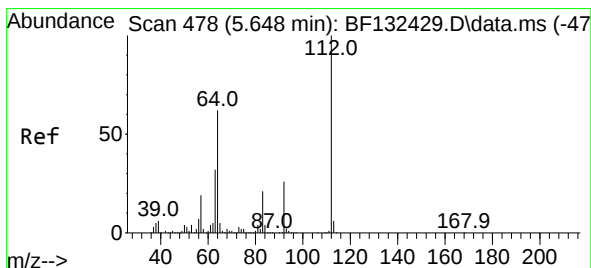
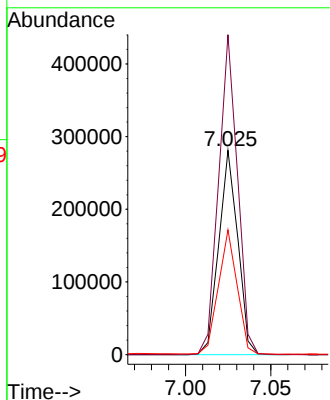
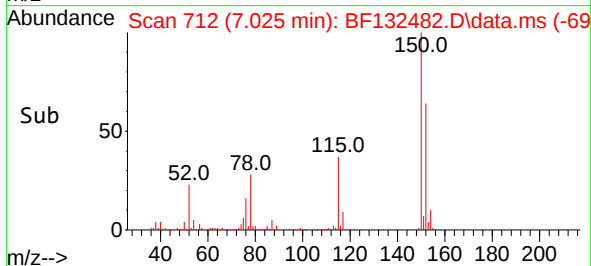


Tgt Ion:152 Resp: 217710
Ion Ratio Lower Upper
152 100
150 156.6 123.8 185.8
115 61.0 50.4 75.6

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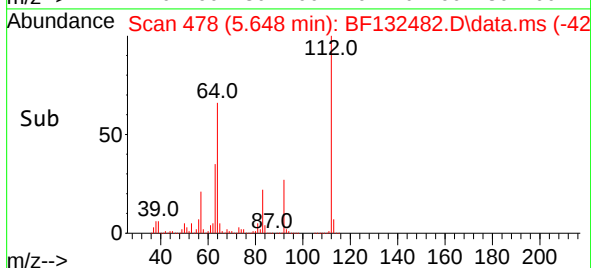
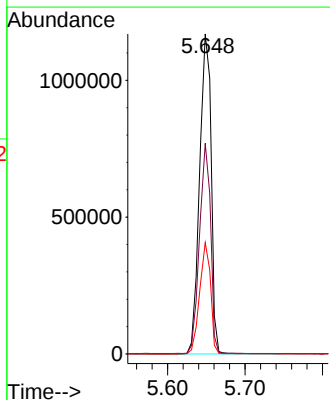
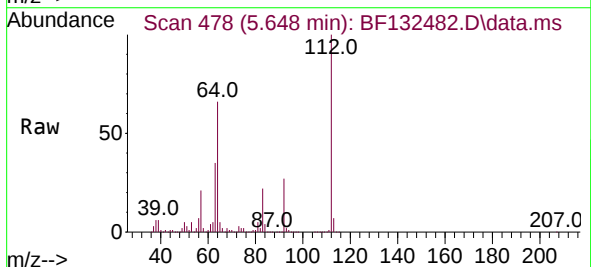
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

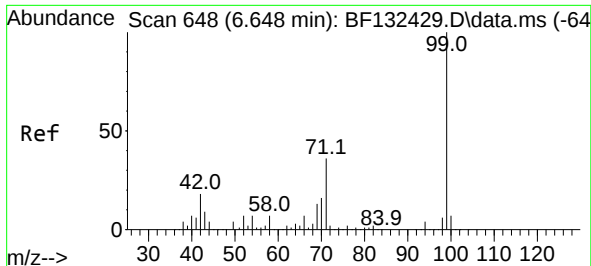
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#5
2-Fluorophenol
Concen: 89.211 ng
RT: 5.648 min Scan# 478
Delta R.T. 0.006 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

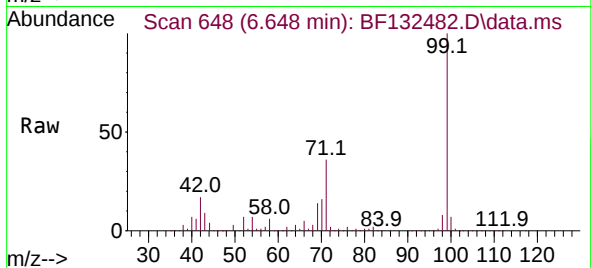
Tgt Ion:112 Resp: 1212086
Ion Ratio Lower Upper
112 100
64 65.8 49.7 74.5
63 34.8 25.8 38.8





#7
Phenol-d6
Concen: 86.580 ng
RT: 6.648 min Scan# 648
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
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ClientSampleId :
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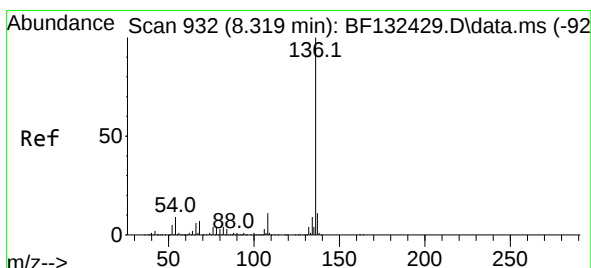
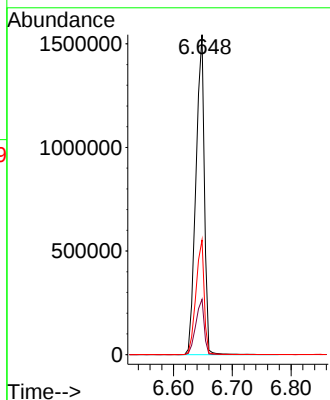
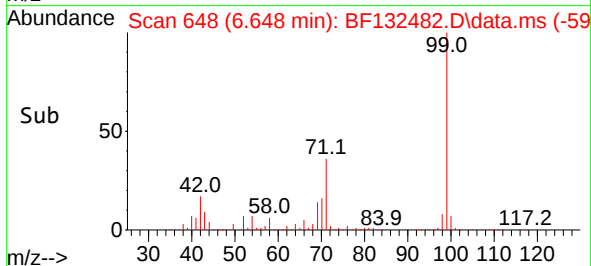


Tgt Ion: 99 Resp: 1536023
Ion Ratio Lower Upper
99 100
42 17.3 14.6 21.8
71 35.8 28.7 43.1

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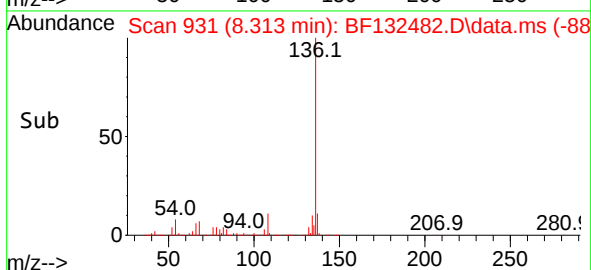
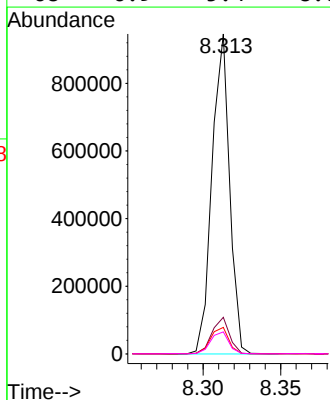
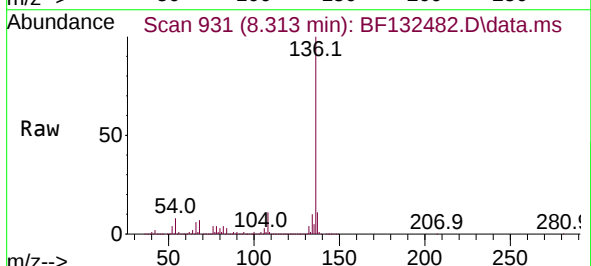
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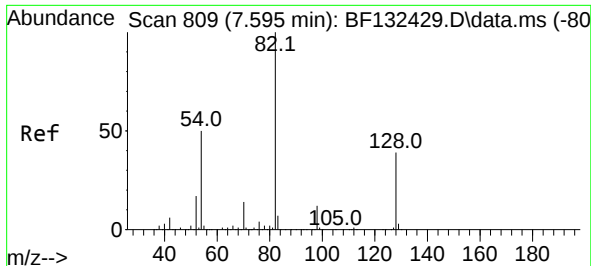
Supervised By :Jagrut
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.313 min Scan# 931
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Tgt Ion:136 Resp: 749061
Ion Ratio Lower Upper
136 100
137 11.4 8.8 13.2
54 8.3 6.9 10.3
68 6.9 5.4 8.0





#23

Nitrobenzene-d5

Concen: 63.854 ng

RT: 7.590 min Scan# 809

Delta R.T. -0.006 min

Lab File: BF132482.D

Acq: 20 Feb 2023 16:56

Instrument :

BNA_F

ClientSampleId :

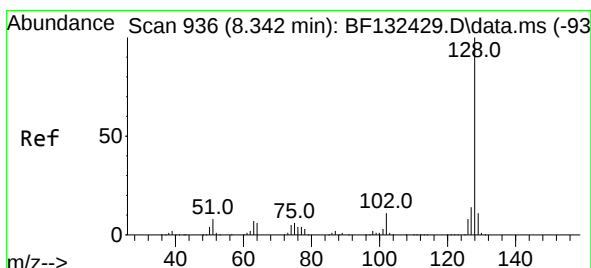
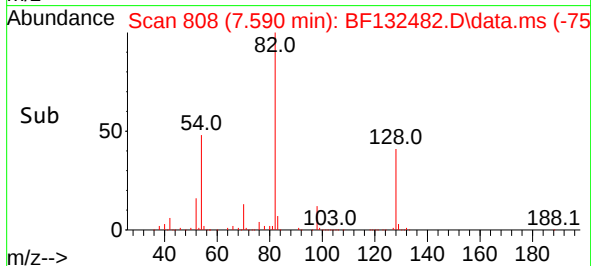
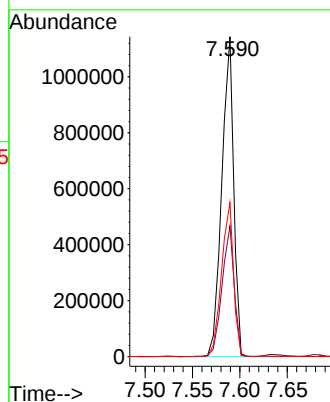
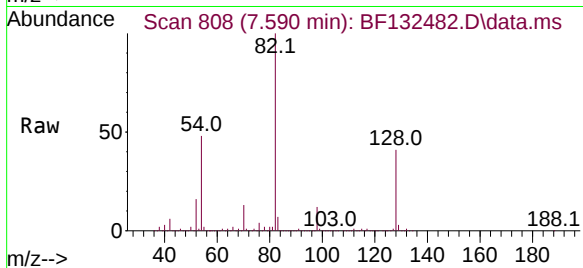
C0159

Tgt Ion: 82 Resp: 995446
 Ion Ratio Lower Upper
 82 100
 128 40.9 30.8 46.2
 54 48.2 40.2 60.4

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#31

Naphthalene

Concen: 2.492 ng

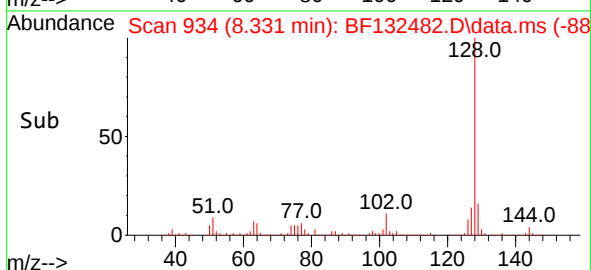
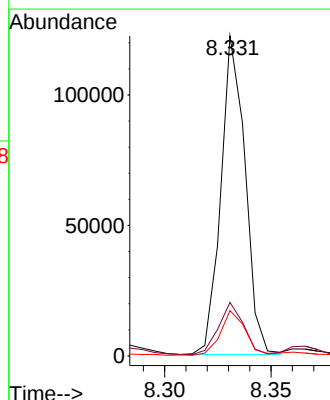
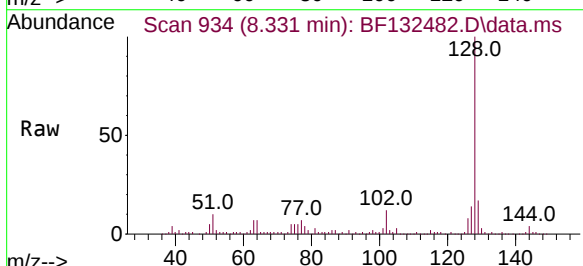
RT: 8.331 min Scan# 934

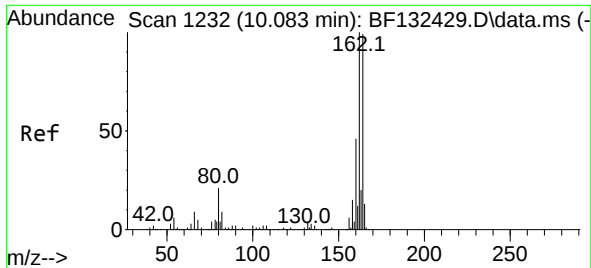
Delta R.T. -0.006 min

Lab File: BF132482.D

Acq: 20 Feb 2023 16:56

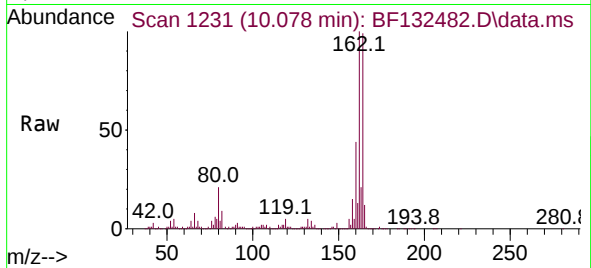
Tgt Ion:128 Resp: 96877
 Ion Ratio Lower Upper
 128 100
 129 16.7 9.0 13.4#
 127 14.1 11.0 16.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.078 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

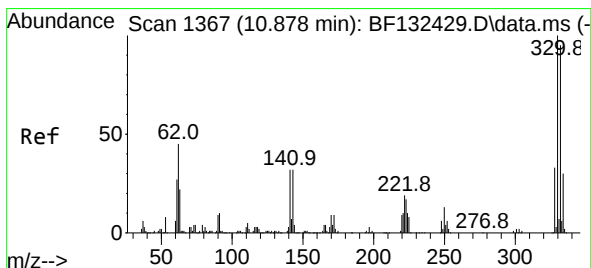
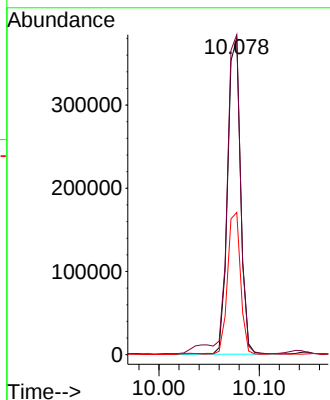
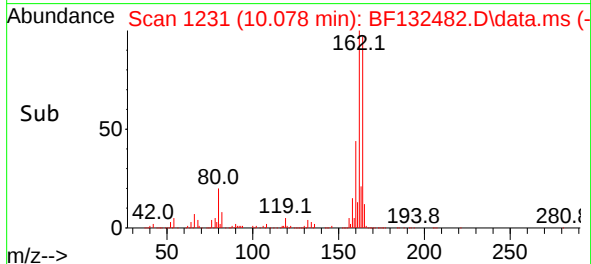


Tgt Ion:164 Resp: 343332
Ion Ratio Lower Upper
164 100
162 101.2 80.8 121.2
160 45.0 37.2 55.8

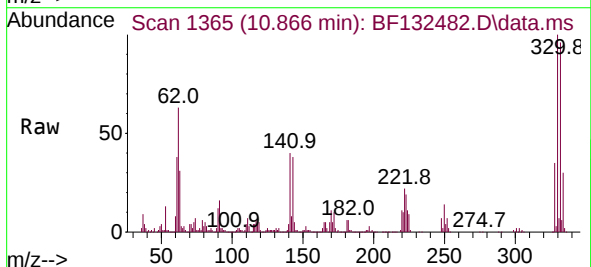
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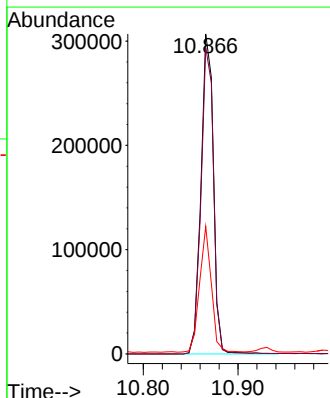
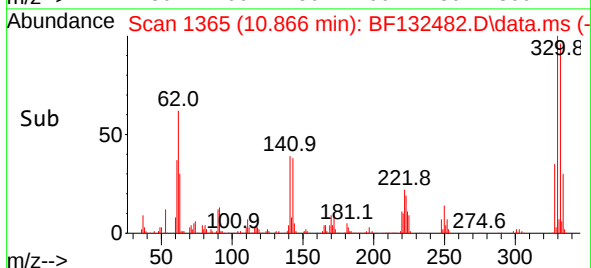
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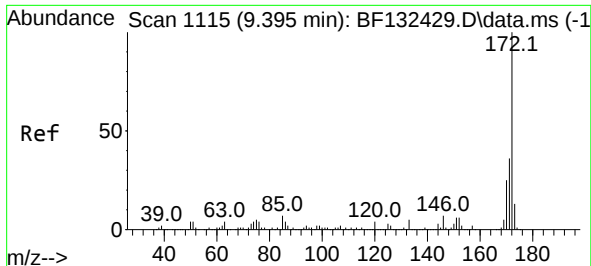


#42
2,4,6-Tribromophenol
Concen: 81.784 ng
RT: 10.866 min Scan# 1365
Delta R.T. -0.006 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56



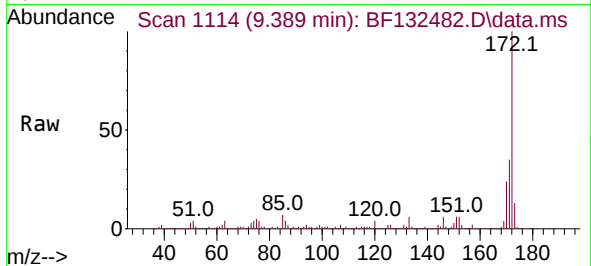
Tgt Ion:330 Resp: 280157
Ion Ratio Lower Upper
330 100
332 96.5 76.3 114.5
141 37.4 30.3 45.5





#45
2-Fluorobiphenyl
Concen: 66.682 ng
RT: 9.389 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BF132482.D
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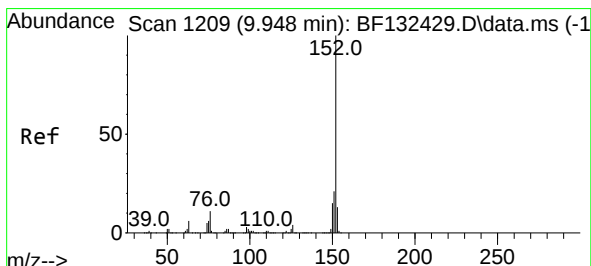
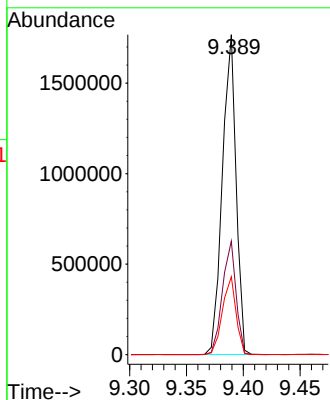
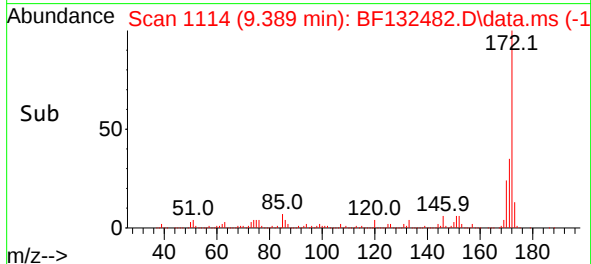


Tgt Ion:172 Resp: 1482493
Ion Ratio Lower Upper
172 100
171 35.5 28.6 42.8
170 24.3 19.9 29.9

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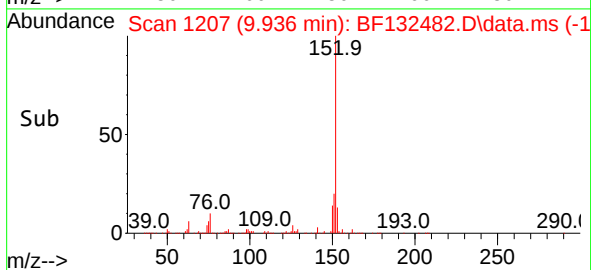
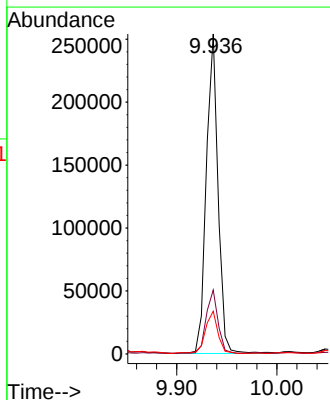
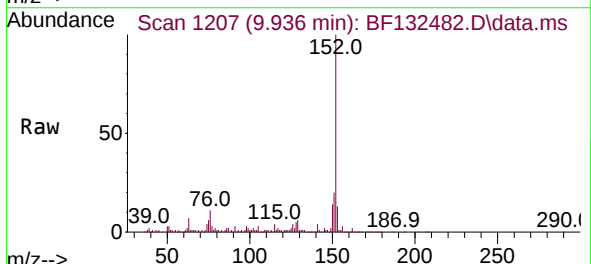
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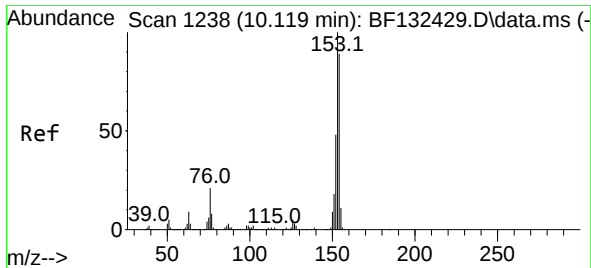
Supervised By :Jagrut
Upadhyay
02/22/2023



#49
Acenaphthylene
Concen: 6.211 ng
RT: 9.936 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Tgt Ion:152 Resp: 205840
Ion Ratio Lower Upper
152 100
151 20.0 16.4 24.6
153 13.3 10.7 16.1





#52
Acenaphthene
Concen: 2.368 ng
RT: 10.107 min Scan# 1236
Delta R.T. -0.006 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

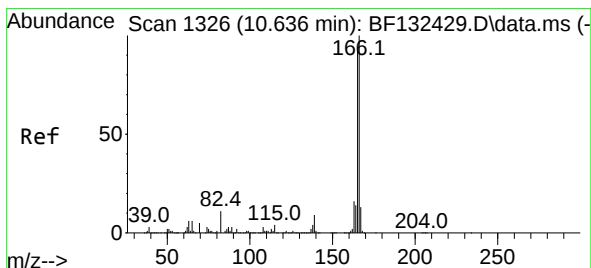
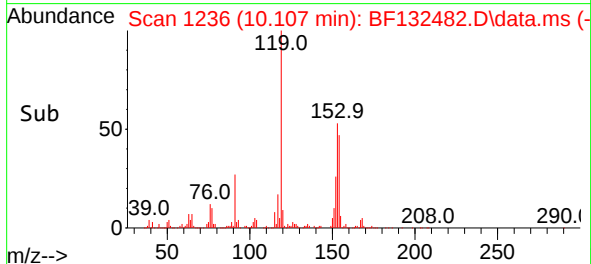
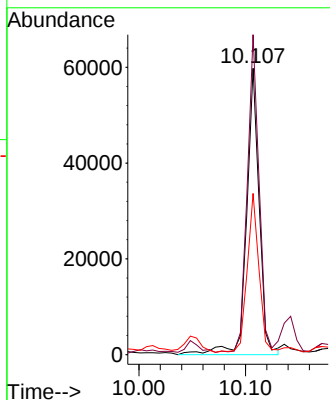
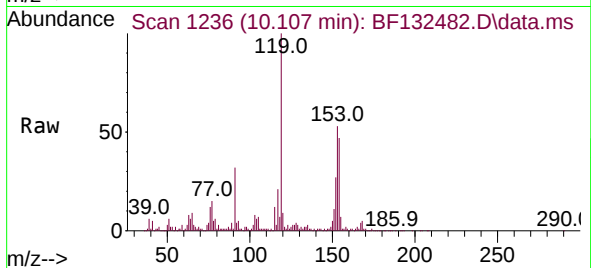
Instrument :
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Tgt Ion:154 Resp: 48833
Ion Ratio Lower Upper
154 100
153 111.8 89.7 134.5
152 56.3 43.4 65.0

Manual Integrations
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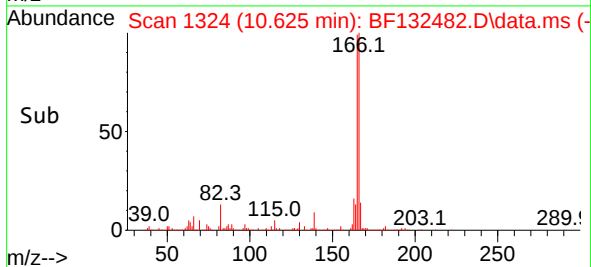
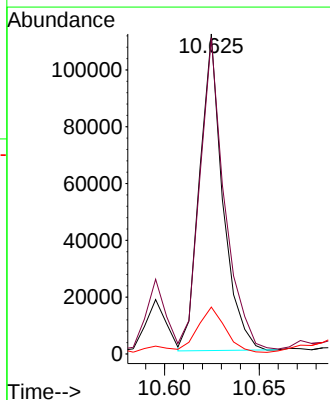
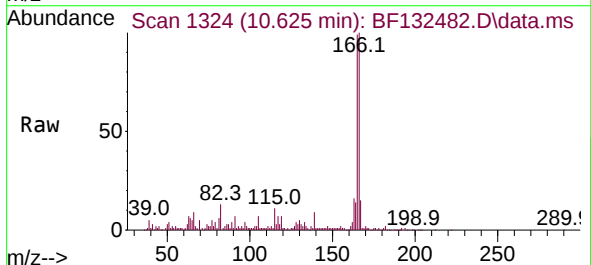
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Supervised By :Jagrut Upadhyay 02/22/2023

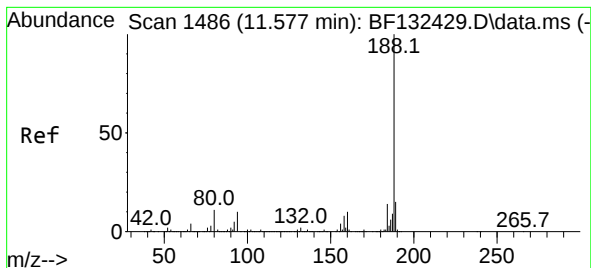
Supervised By :Jagrut
Upadhyay
02/22/2023



#58
Fluorene
Concen: 4.094 ng
RT: 10.625 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Tgt Ion:166 Resp: 94700
Ion Ratio Lower Upper
166 100
165 98.8 74.6 111.8
167 14.6 10.8 16.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.572 min Scan# 1486
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

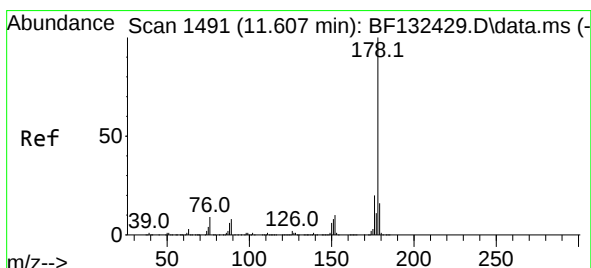
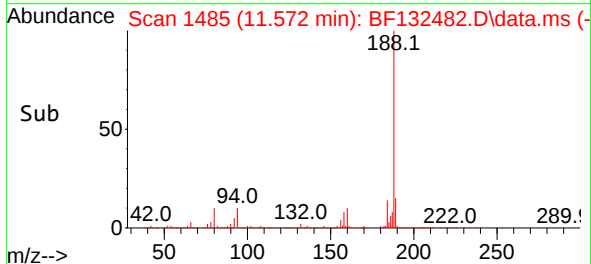
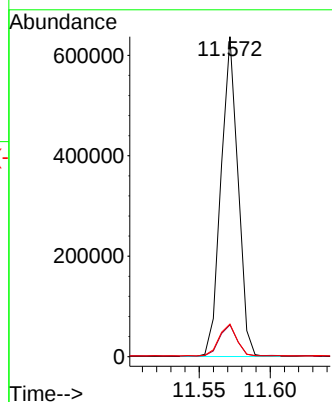
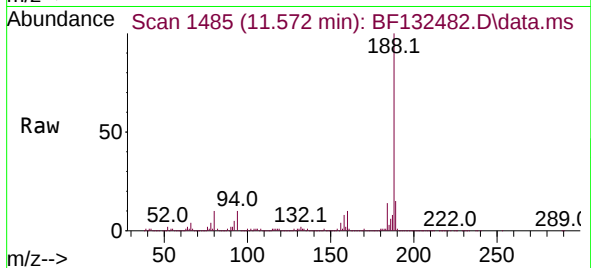
Instrument :
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ClientSampleId :
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Tgt Ion:188 Resp: 532343
Ion Ratio Lower Upper
188 100
94 9.9 8.0 12.0
80 10.2 8.6 12.8

Manual Integrations
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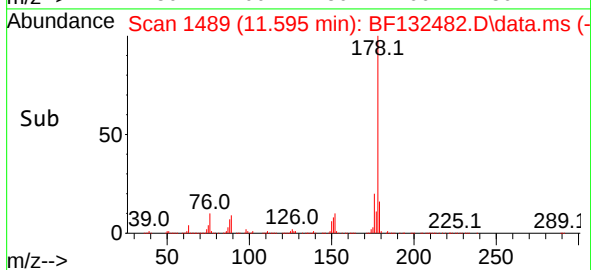
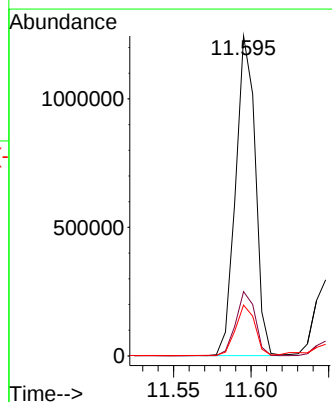
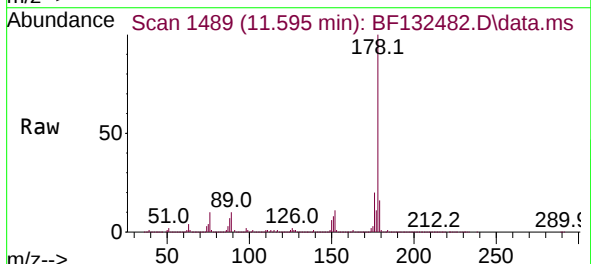
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

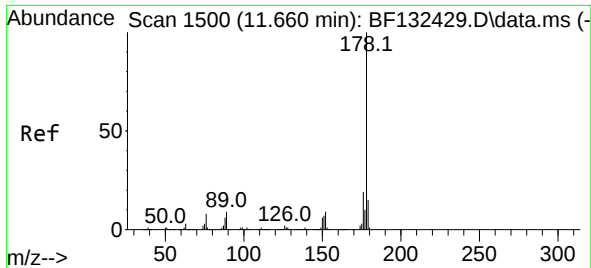
Supervised By :Jagrut
Upadhyay
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#71
Phenanthrene
Concen: 40.296 ng
RT: 11.595 min Scan# 1489
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

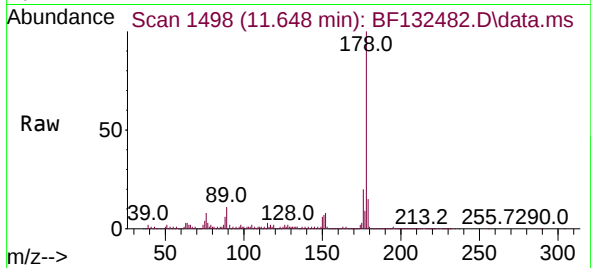
Tgt Ion:178 Resp: 1104818
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.2
179 15.9 12.6 18.8





#72
 Anthracene
 Concen: 8.445 ng
 RT: 11.648 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: BF132482.D
 Acq: 20 Feb 2023 16:56

Instrument :
 BNA_F
 ClientSampleId :
 C0159

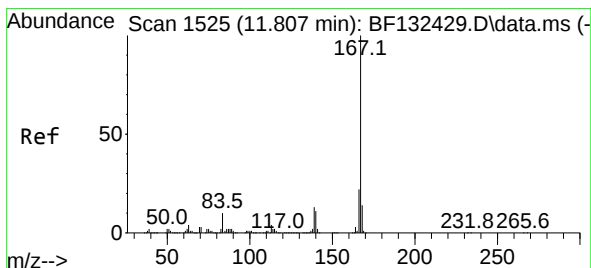
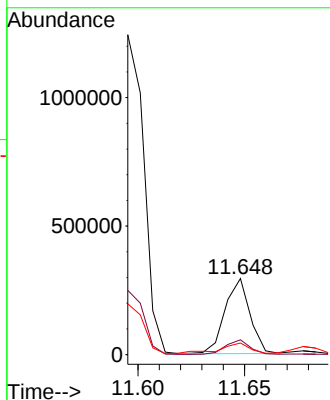
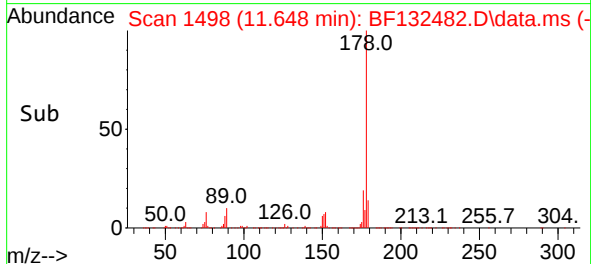


Tgt Ion:178 Resp: 238014
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.4 23.2
 179 15.2 12.4 18.6

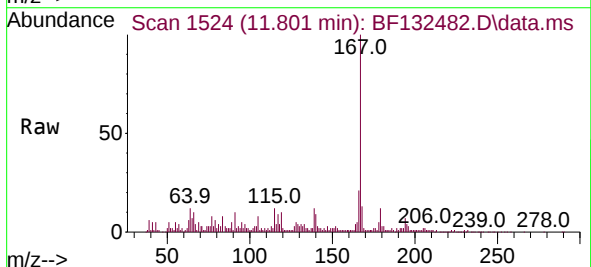
Manual Integrations
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Reviewed By :Christian Giraldo 02/22/2023
 Supervised By :Jagrut Upadhyay 02/22/2023

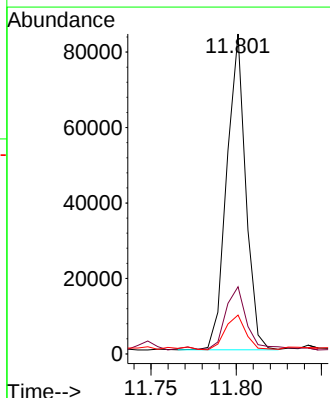
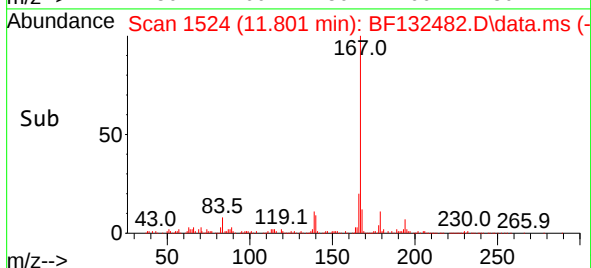
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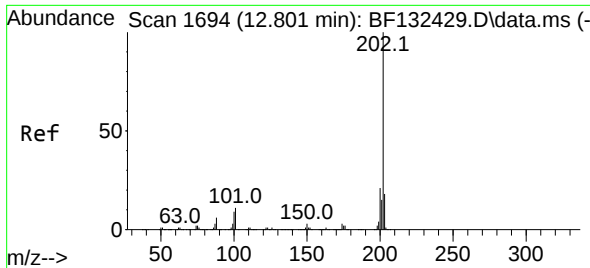


#73
 Carbazole
 Concen: 2.558 ng
 RT: 11.801 min Scan# 1524
 Delta R.T. 0.000 min
 Lab File: BF132482.D
 Acq: 20 Feb 2023 16:56



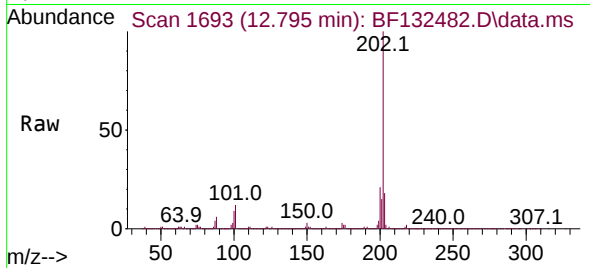
Tgt Ion:167 Resp: 64894
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.8 26.8
 139 12.1 10.7 16.1





#75
Fluoranthene
Concen: 42.472 ng
RT: 12.795 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

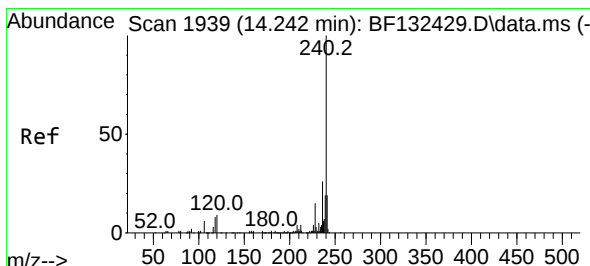
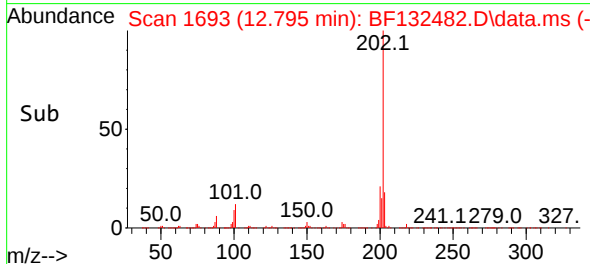
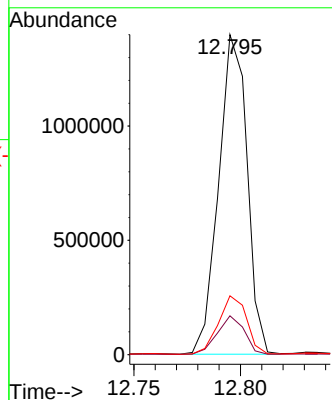


Tgt Ion:202 Resp: 1298648
Ion Ratio Lower Upper
202 100
101 12.1 0.0 31.3
203 18.4 0.0 37.8

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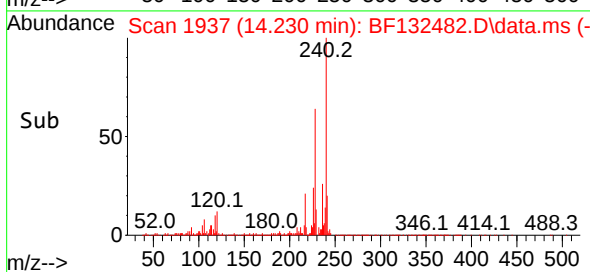
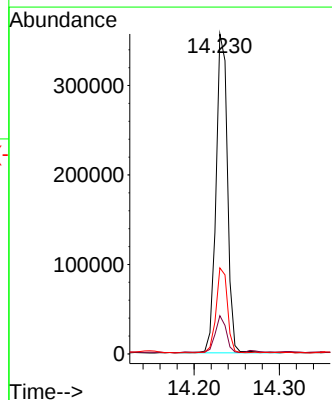
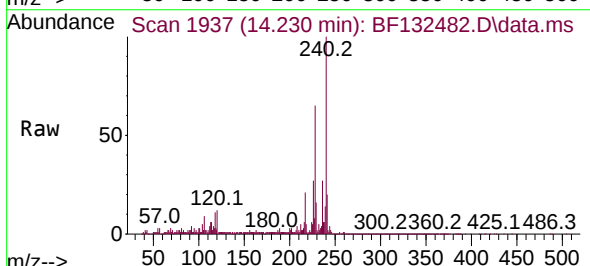
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

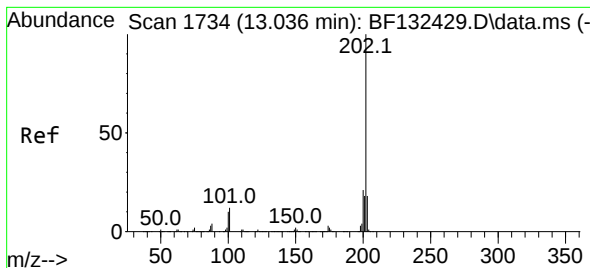
Supervised By :Jagrut
Upadhyay
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.230 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Tgt Ion:240 Resp: 331405
Ion Ratio Lower Upper
240 100
120 11.9 7.5 11.3#
236 26.9 21.0 31.6





#78

Pyrene

Concen: 48.343 ng

RT: 13.030 min Scan# 1734

Delta R.T. 0.006 min

Lab File: BF132482.D

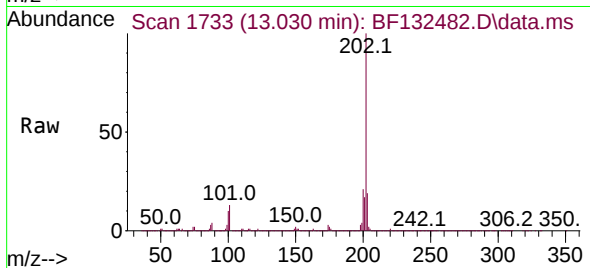
Acq: 20 Feb 2023 16:56

Instrument :

BNA_F

ClientSampleId :

C0159



Tgt Ion:202 Resp: 1360988

Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.5 14.3 21.5

Manual Integrations

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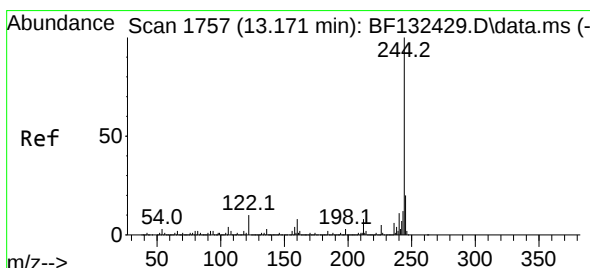
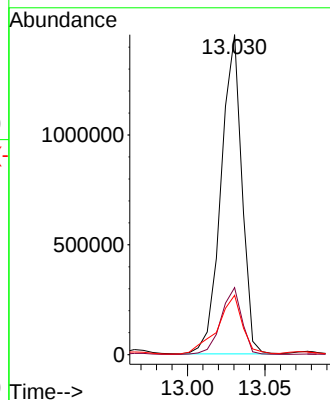
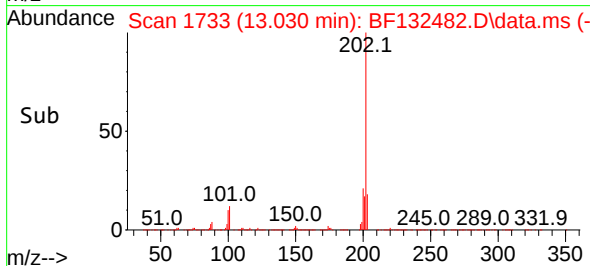
Reviewed By :Christian Giraldo 02/22/2023

Supervised By :Jagrut Upadhyay 02/22/2023

Supervised By :Jagrut

Upadhyay

02/22/2023



#79

Terphenyl-d14

Concen: 70.882 ng

RT: 13.160 min Scan# 1755

Delta R.T. 0.000 min

Lab File: BF132482.D

Acq: 20 Feb 2023 16:56

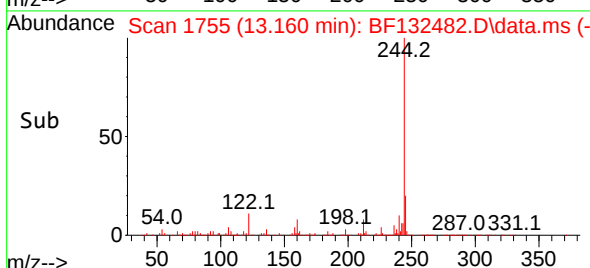
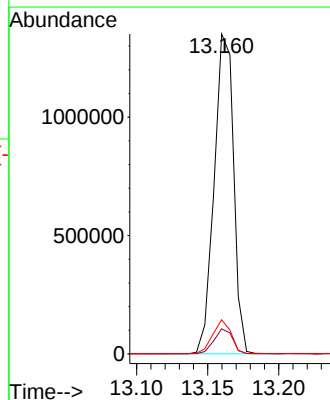
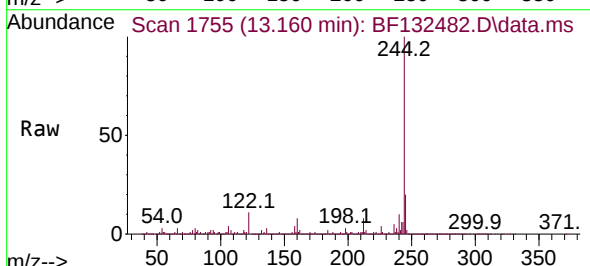
Tgt Ion:244 Resp: 1289842

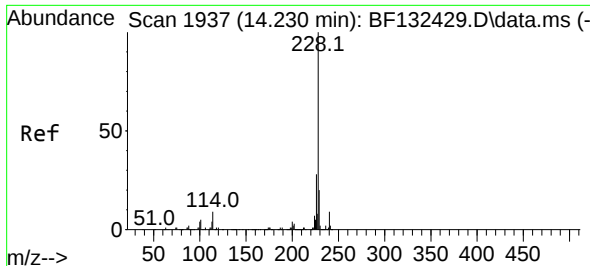
Ion Ratio Lower Upper

244 100

212 7.8 6.7 10.1

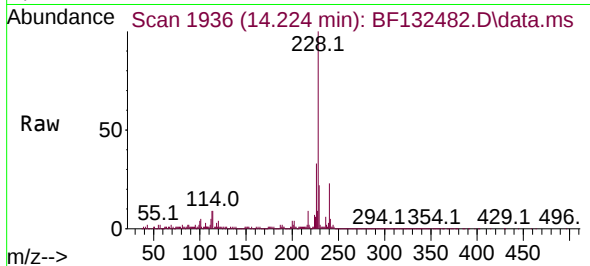
122 10.7 7.7 11.5





#81
Benzo(a)anthracene
Concen: 25.683 ng
RT: 14.224 min Scan# 1936
Delta R.T. 0.006 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

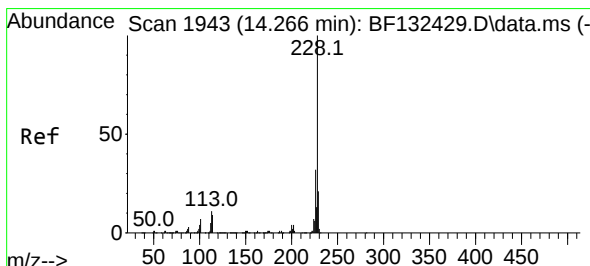
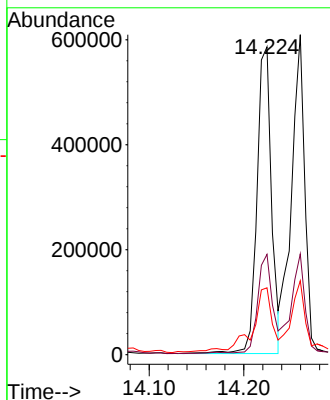
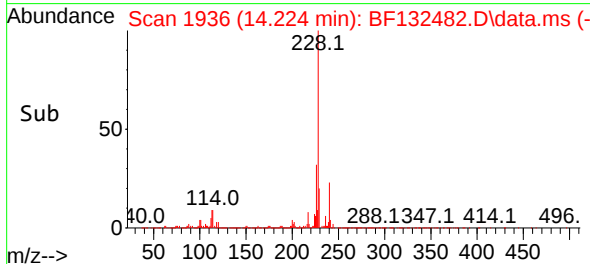


Tgt Ion:228 Resp: 623396
Ion Ratio Lower Upper
228 100
226 32.6 22.6 34.0
229 21.7 16.2 24.4

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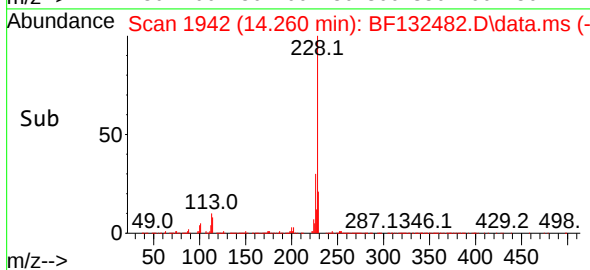
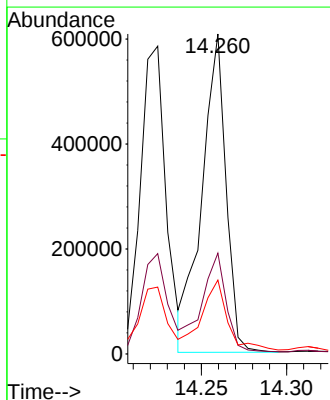
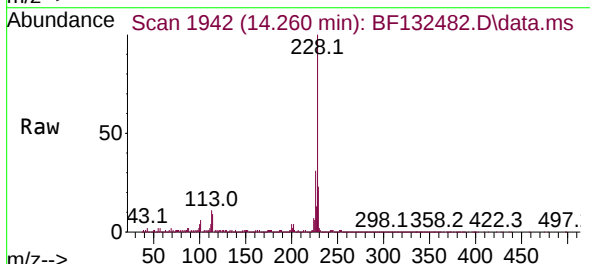
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

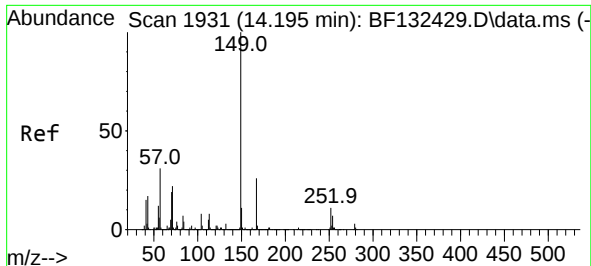
Supervised By :Jagrut
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#83
Chrysene
Concen: 25.771 ng
RT: 14.260 min Scan# 1942
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

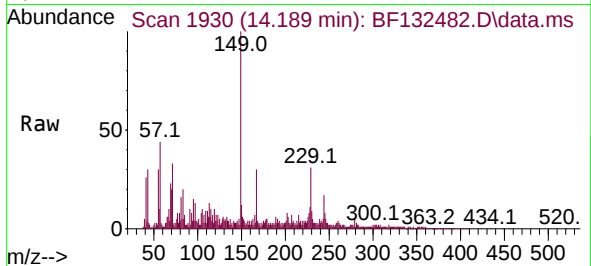
Tgt Ion:228 Resp: 597650
Ion Ratio Lower Upper
228 100
226 31.5 25.4 38.2
229 23.1 16.6 25.0





#84
Bis(2-ethylhexyl)phthalate
Concen: 3.344 ng
RT: 14.189 min Scan# 1931
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

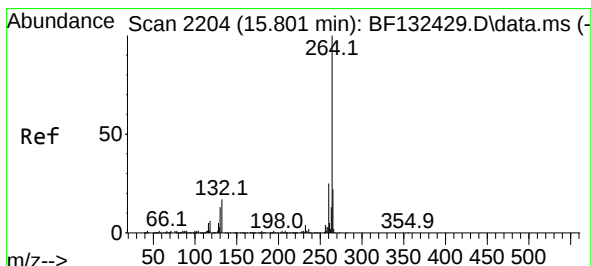
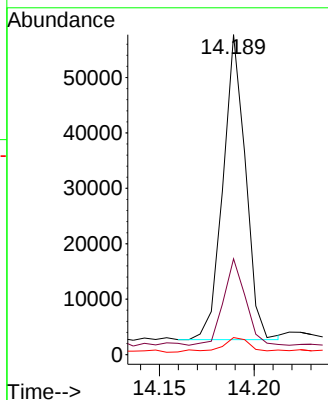
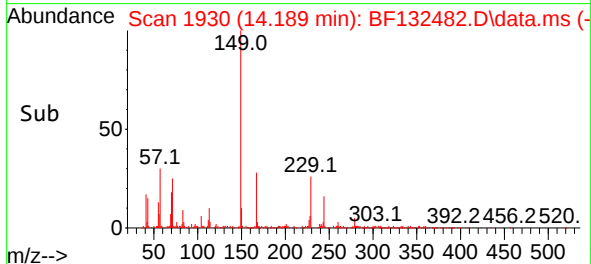


Tgt Ion:149 Resp: 45479
Ion Ratio Lower Upper
149 100
167 29.9 21.0 31.6
279 5.3 2.5 3.7

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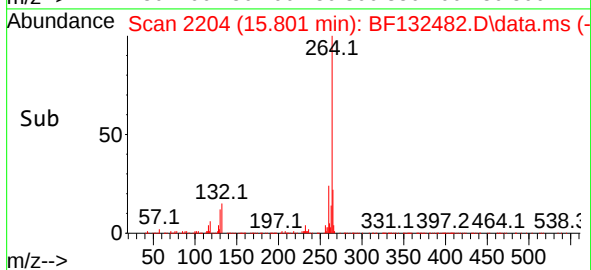
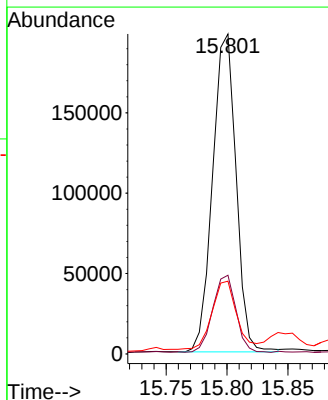
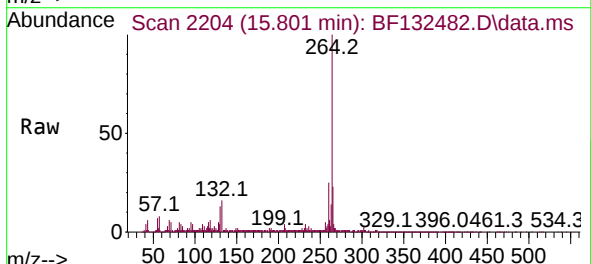
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

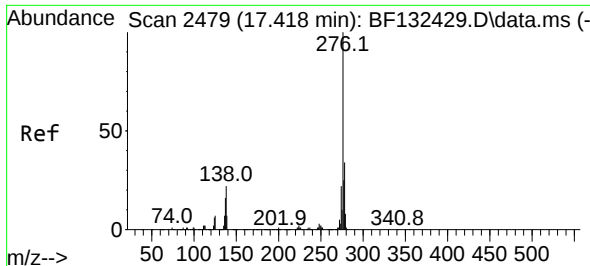
Supervised By :Jagrut
Upadhyay
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.801 min Scan# 2204
Delta R.T. 0.018 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

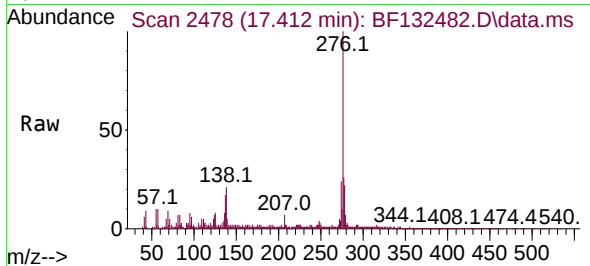
Tgt Ion:264 Resp: 265067
Ion Ratio Lower Upper
264 100
260 24.6 20.0 30.0
265 22.7 17.2 25.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 12.526 ng
RT: 17.412 min Scan# 2479
Delta R.T. 0.012 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

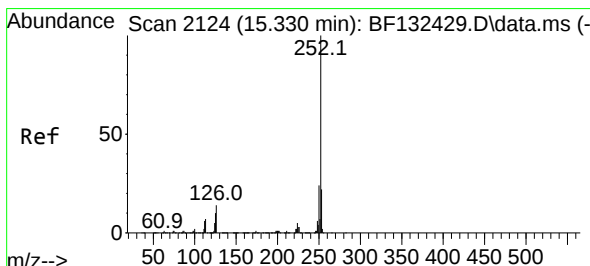
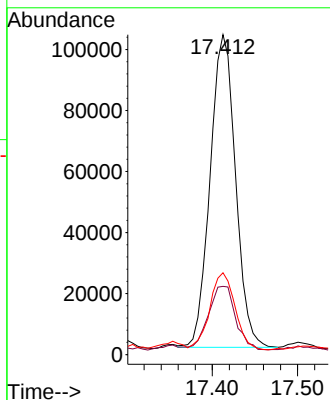
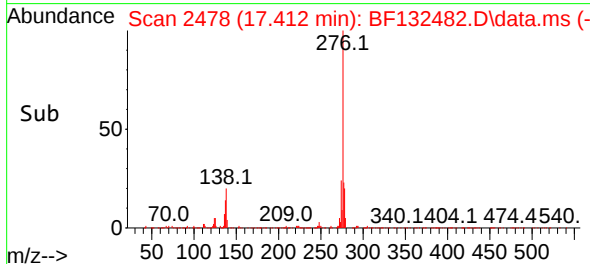


Tgt Ion: 276 Resp: 212236
Ion Ratio Lower Upper
276 100
138 22.1 20.2 30.4
277 24.6 20.0 30.0

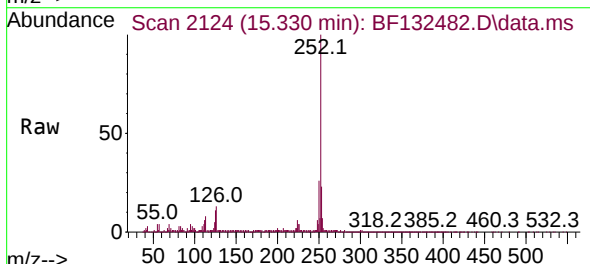
Manual Integrations
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Reviewed By : Christian Giraldo 02/22/2023
Supervised By : Jagrut Upadhyay 02/22/2023

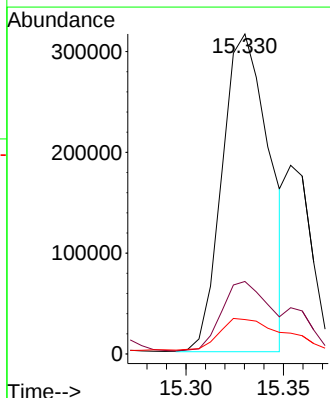
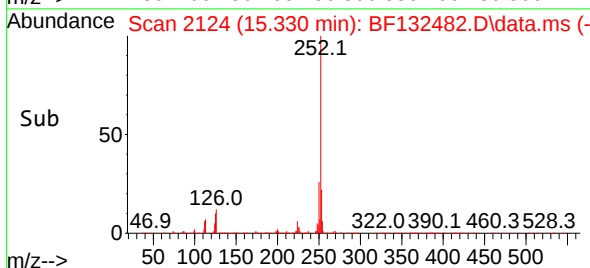
Supervised By : Jagrut
Upadhyay
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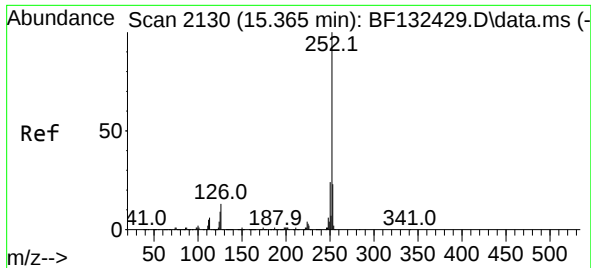


#88
Benzo(b)fluoranthene
Concen: 30.510 ng m
RT: 15.330 min Scan# 2124
Delta R.T. 0.012 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56



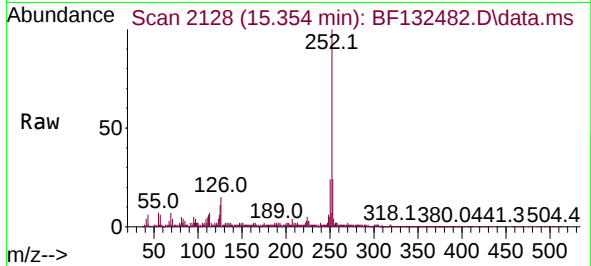
Tgt Ion: 252 Resp: 531825
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.8
125 10.7 7.6 11.4





#89
Benzo(k)fluoranthene
Concen: 9.734 ng m
RT: 15.354 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

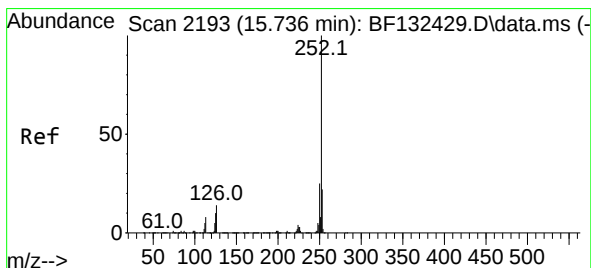
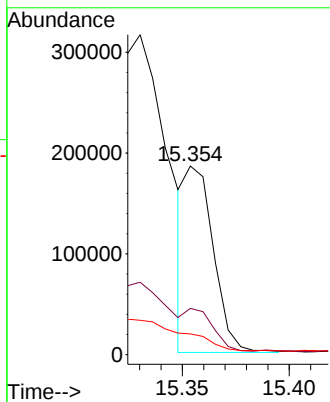
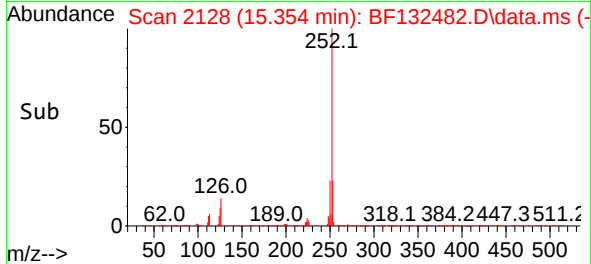


Tgt Ion:252 Resp: 169795
Ion Ratio Lower Upper
252 100
253 24.5 18.2 27.2
125 11.0 7.5 11.3

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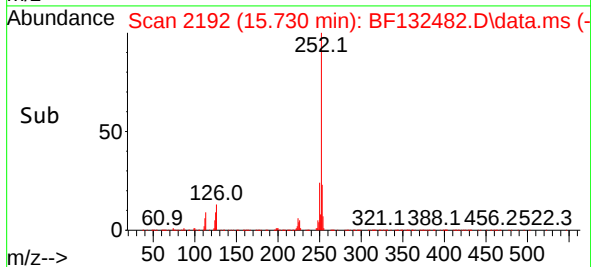
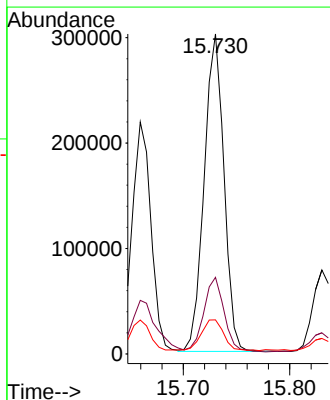
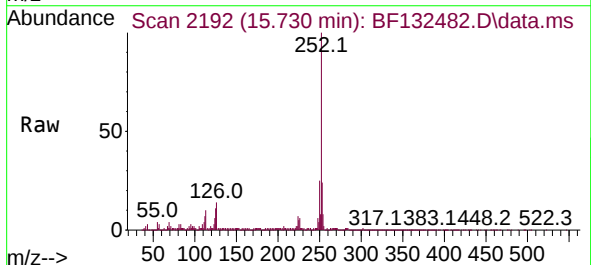
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

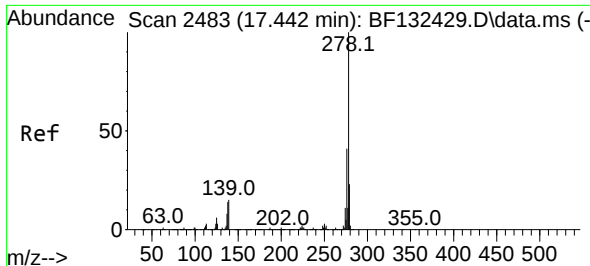
Supervised By :Jagrut
Upadhyay
02/22/2023



#90
Benzo(a)pyrene
Concen: 23.939 ng
RT: 15.730 min Scan# 2192
Delta R.T. 0.012 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

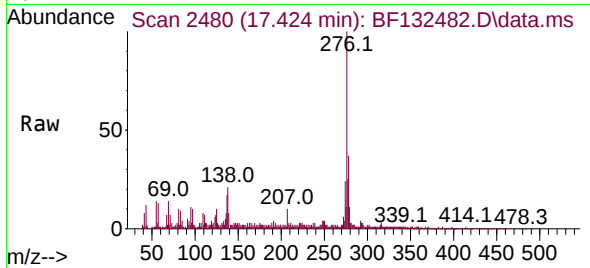
Tgt Ion:252 Resp: 387787
Ion Ratio Lower Upper
252 100
253 23.9 17.6 26.4
125 10.6 8.2 12.4





#91
Dibenzo(a,h)anthracene
Concen: 4.265 ng
RT: 17.424 min Scan# 2483
Delta R.T. 0.006 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Instrument :
BNA_F
ClientSampleId :
C0159

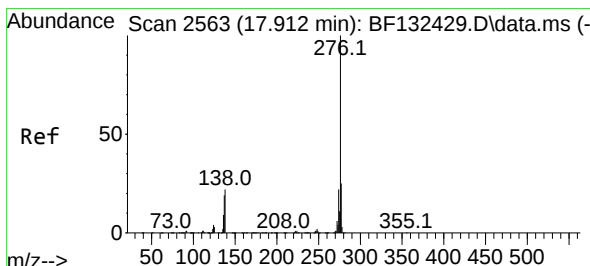
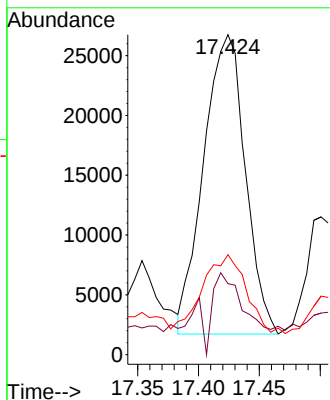
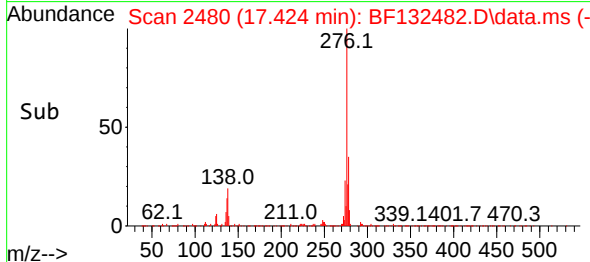


Tgt Ion: 278 Resp: 59528
Ion Ratio Lower Upper
278 100
139 22.2 12.2 18.2
279 31.2 18.8 28.2

Manual Integrations
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Supervised By : Jagrut Upadhyay 02/22/2023

Supervised By : Jagrut
Upadhyay
02/22/2023



#92
Benzo(g,h,i)perylene
Concen: 15.752 ng
RT: 17.907 min Scan# 2562
Delta R.T. 0.012 min
Lab File: BF132482.D
Acq: 20 Feb 2023 16:56

Tgt Ion: 276 Resp: 225756
Ion Ratio Lower Upper
276 100
277 24.5 19.6 29.4
138 22.5 17.7 26.5

