

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031423\
 Data File : BF132793.D
 Acq On : 14 Mar 2023 23:06
 Operator : CG\JU
 Sample : 01905-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UNION-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/15/2023
 Supervised By :Jagrut Upadhyay 03/15/2023

Quant Time: Mar 15 02:31:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 14 15:35:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	210806	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	759215	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	376148	20.000	ng	0.00
64) Phenanthrene-d10	11.498	188	612018	20.000	ng	0.00
76) Chrysene-d12	14.163	240	372391	20.000	ng	0.00
86) Perylene-d12	15.692	264	354616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.598	112	1180777	90.907	ng	0.00
7) Phenol-d6	6.598	99	1486175	87.671	ng	0.00
23) Nitrobenzene-d5	7.528	82	937518	58.587	ng	-0.01
42) 2,4,6-Tribromophenol	10.798	330	326022	80.257	ng	-0.01
45) 2-Fluorobiphenyl	9.322	172	1499489	60.700	ng	0.00
79) Terphenyl-d14	13.086	244	1356398	61.584	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.269	128	78405	2.017	ng	98
49) Acenaphthylene	9.869	152	190272	5.296	ng	100
71) Phenanthrene	11.522	178	370185	11.676	ng	99
72) Anthracene	11.575	178	150360	4.605	ng	98
75) Fluoranthene	12.727	202	1950165	56.265	ng	99
78) Pyrene	12.957	202	2105892	62.200	ng	99
81) Benzo(a)anthracene	14.151	228	1581726	56.768	ng	95
83) Chrysene	14.186	228	1287625	49.419	ng	98
87) Indeno(1,2,3-cd)pyrene	17.274	276	875260	37.668	ng	97
88) Benzo(b)fluoranthene	15.245	252	2190993m	92.196	ng	
89) Benzo(k)fluoranthene	15.268	252	650219m	27.957	ng	
90) Benzo(a)pyrene	15.633	252	1530064	68.793	ng	95
91) Dibenzo(a,h)anthracene	17.280	278	214220m	11.315	ng	
92) Benzo(g,h,i)perylene	17.756	276	798584	37.684	ng	97

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

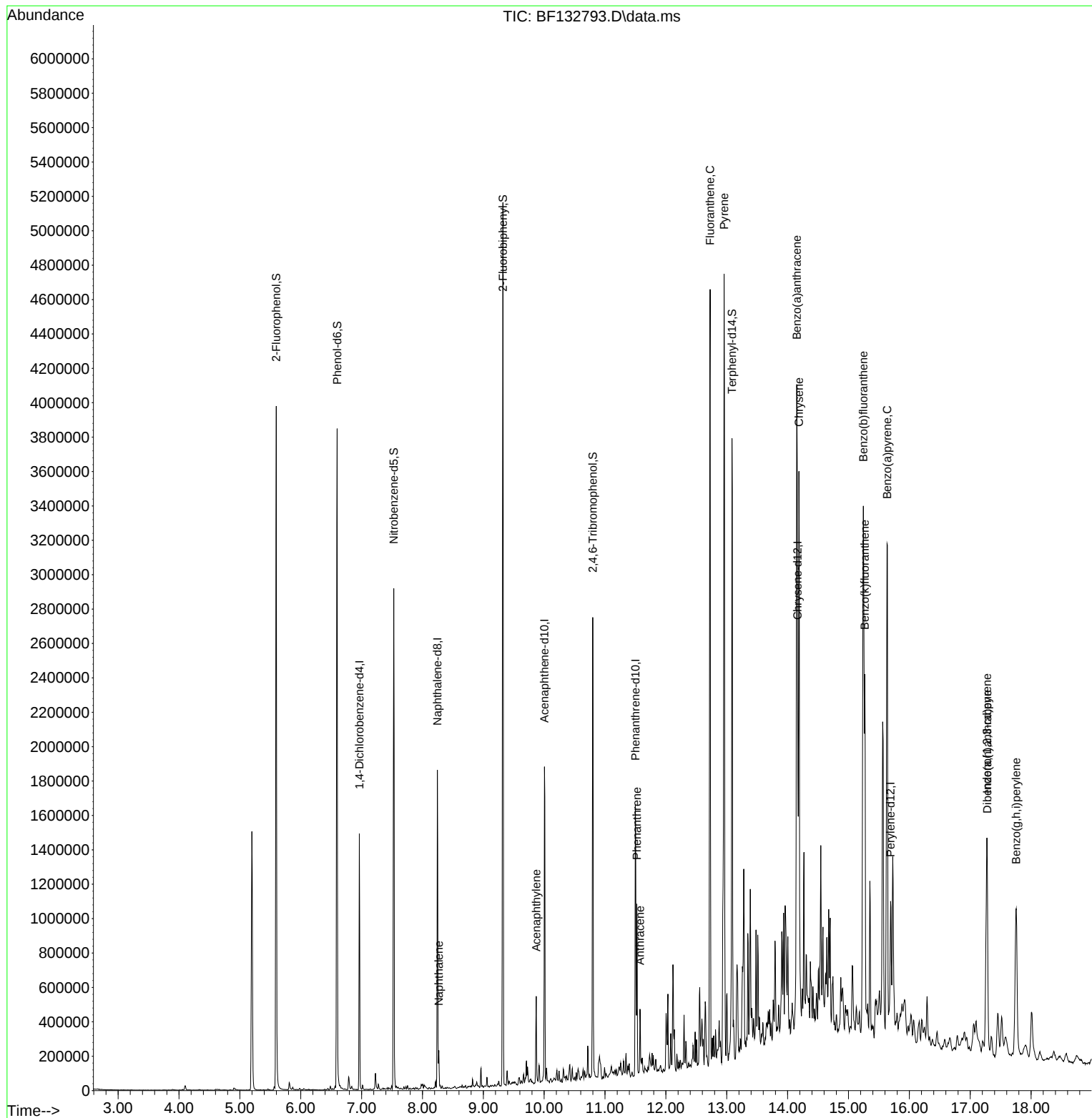
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031423\
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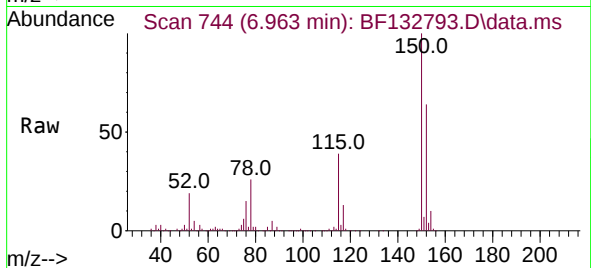
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

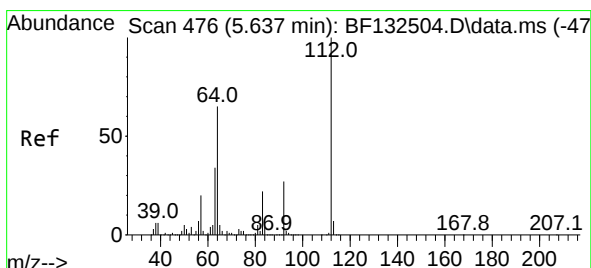
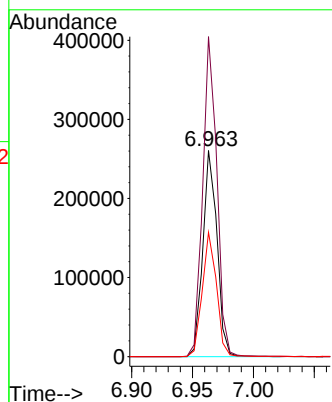
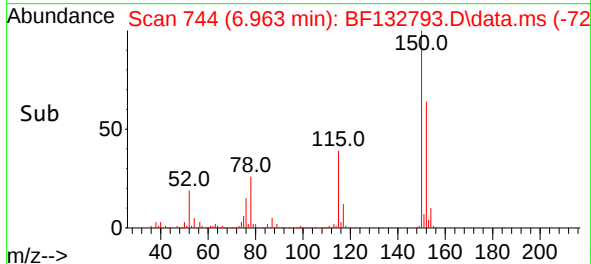
Instrument :
BNA_F
ClientSampleId :
UNION-1



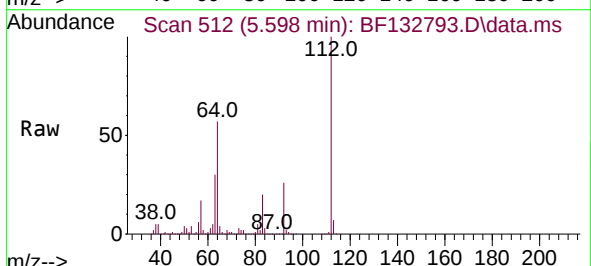
Tgt Ion:152 Resp: 210806
Ion Ratio Lower Upper
152 100
150 155.4 125.4 188.2
115 60.3 47.8 71.6

Manual Integrations
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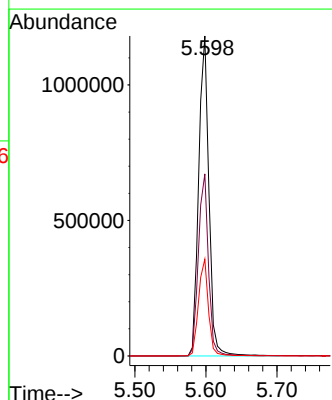
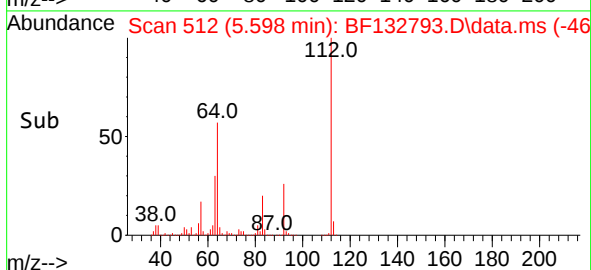
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023

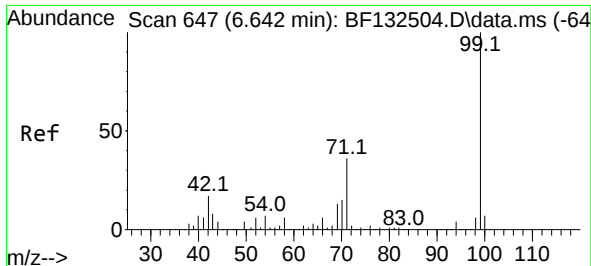


#5
2-Fluorophenol
Concen: 90.907 ng
RT: 5.598 min Scan# 512
Delta R.T. 0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06



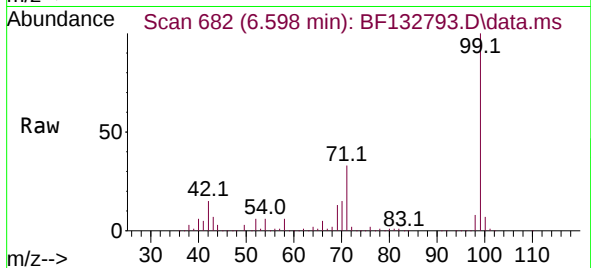
Tgt Ion:112 Resp: 1180777
Ion Ratio Lower Upper
112 100
64 56.9 51.6 77.4
63 30.2 27.4 41.2





#7
Phenol-d6
Concen: 87.671 ng
RT: 6.598 min Scan# 682
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

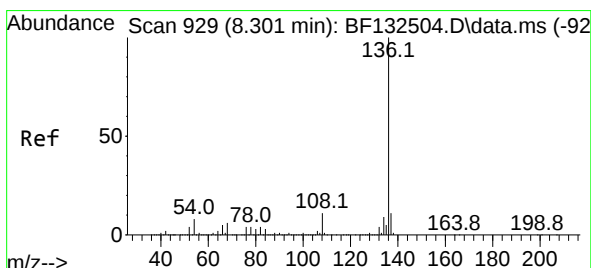
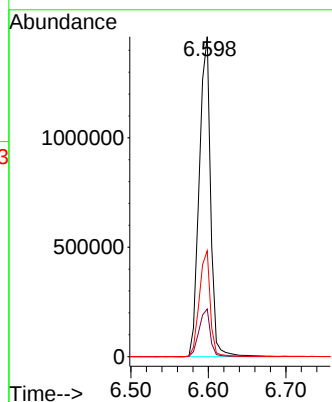
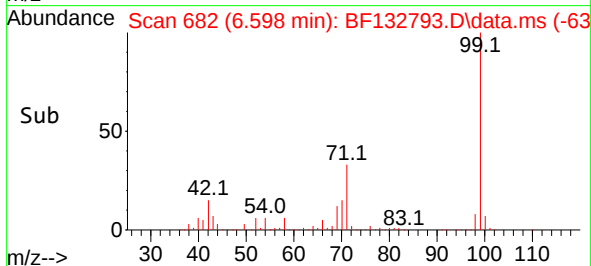
Instrument :
BNA_F
ClientSampleId :
UNION-1



Tgt Ion: 99 Resp: 1486175
Ion Ratio Lower Upper
99 100
42 14.9 13.9 20.9
71 33.1 28.5 42.7

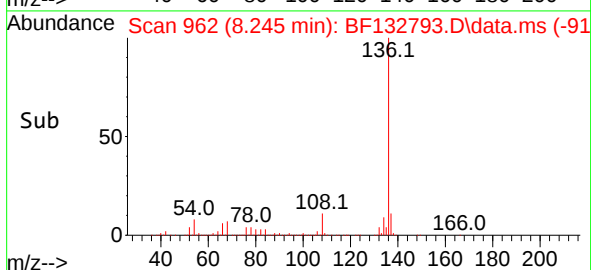
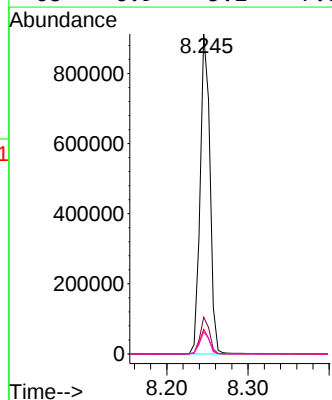
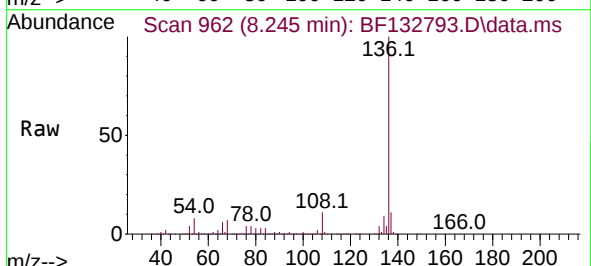
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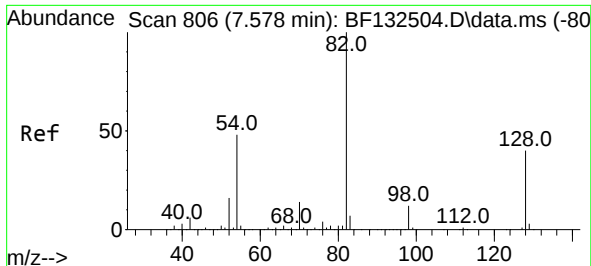
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 962
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:136 Resp: 759215
Ion Ratio Lower Upper
136 100
137 11.5 8.9 13.3
54 7.7 6.2 9.4
68 6.9 5.2 7.8





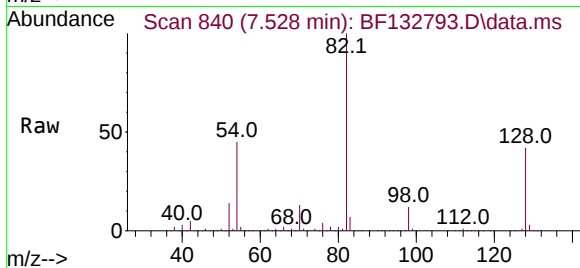
#23
Nitrobenzene-d5
Concen: 58.587 ng
RT: 7.528 min Scan# 840
Delta R.T. -0.012 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

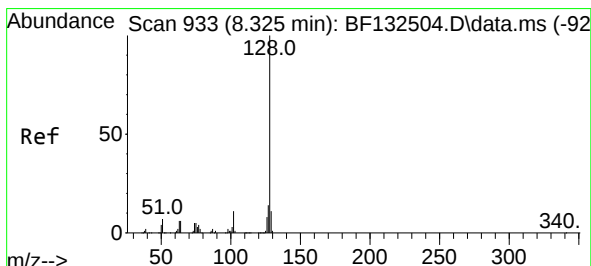
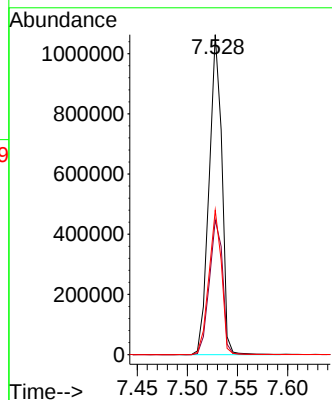
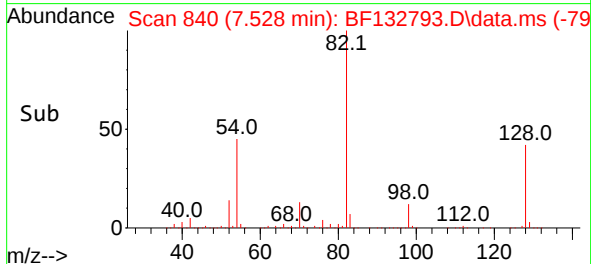


Tgt Ion: 82 Resp: 937518
Ion Ratio Lower Upper
82 100
128 42.1 32.2 48.2
54 45.1 38.4 57.6

Manual Integrations

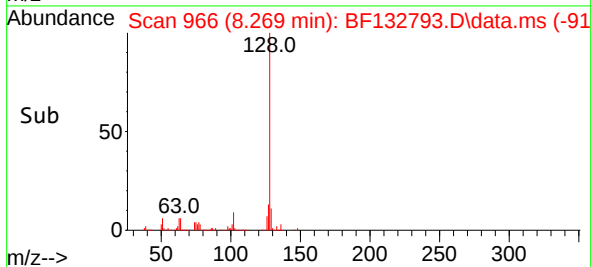
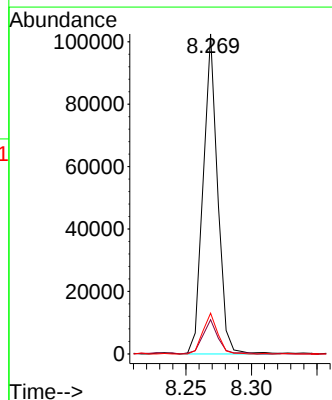
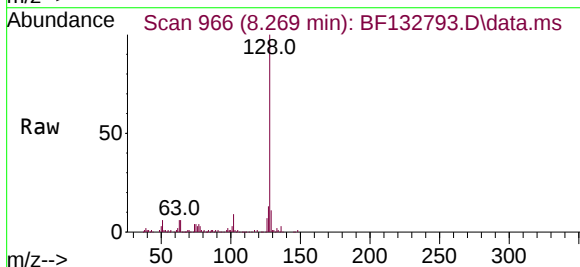
APPROVED

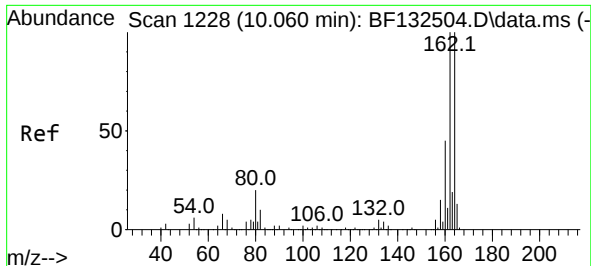
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023



#31
Naphthalene
Concen: 2.017 ng
RT: 8.269 min Scan# 966
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

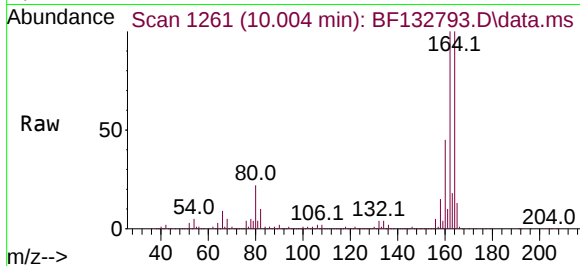
Tgt Ion:128 Resp: 78405
Ion Ratio Lower Upper
128 100
129 10.7 9.1 13.7
127 12.7 11.0 16.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1228
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

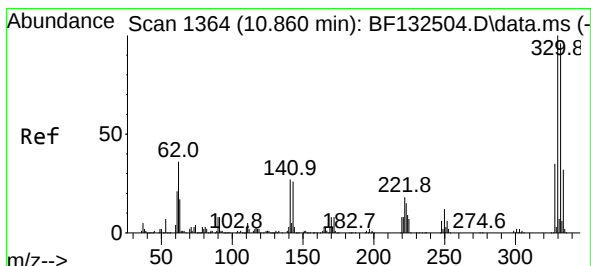
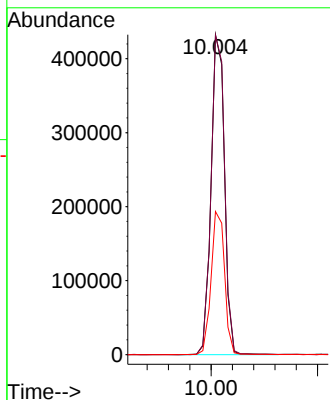
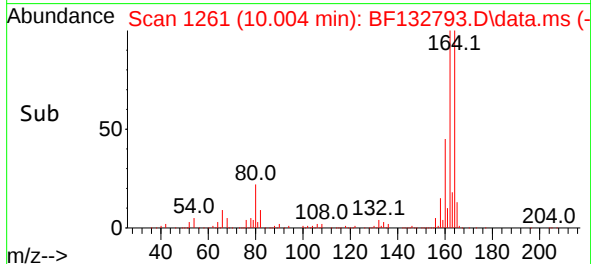
Instrument :
BNA_F
ClientSampleId :
UNION-1



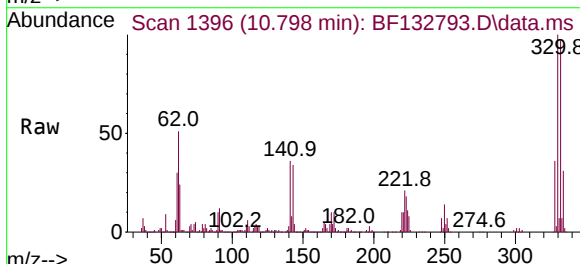
Tgt Ion:164 Resp: 376148
Ion Ratio Lower Upper
164 100
162 99.9 79.8 119.8
160 44.7 35.8 53.6

Manual Integrations
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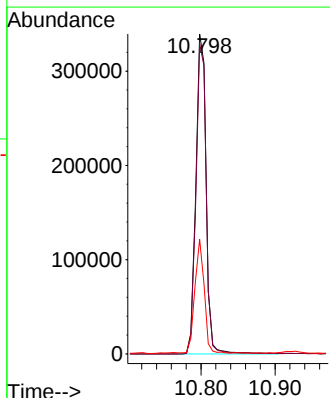
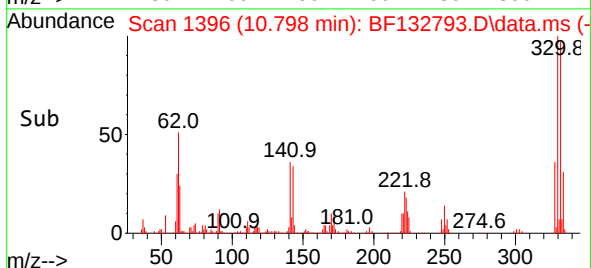
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023

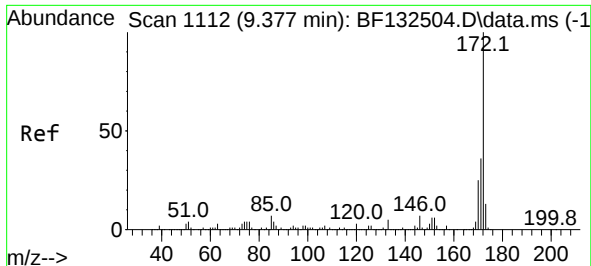


#42
2,4,6-Tribromophenol
Concen: 80.257 ng
RT: 10.798 min Scan# 1396
Delta R.T. -0.012 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06



Tgt Ion:330 Resp: 326022
Ion Ratio Lower Upper
330 100
332 97.1 76.2 114.4
141 32.4 28.4 42.6





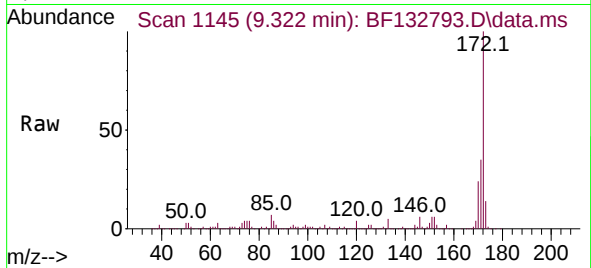
#45
2-Fluorobiphenyl
Concen: 60.700 ng
RT: 9.322 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

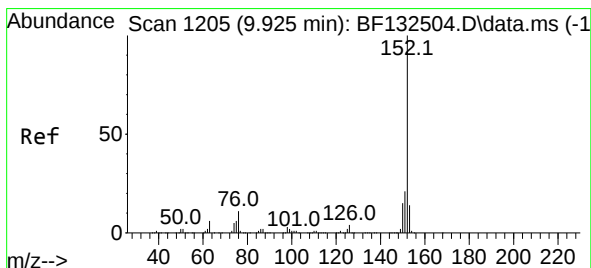
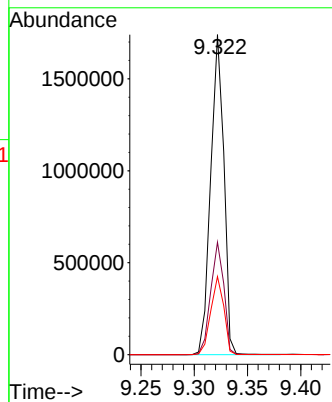
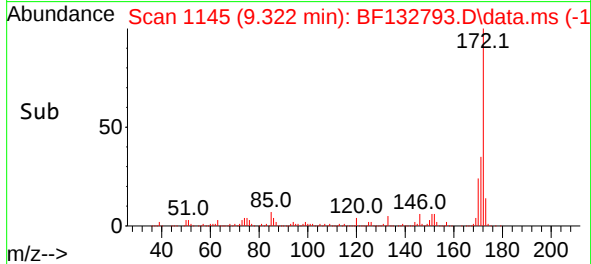


Tgt Ion:172 Resp: 1499489
Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 24.4 19.7 29.5

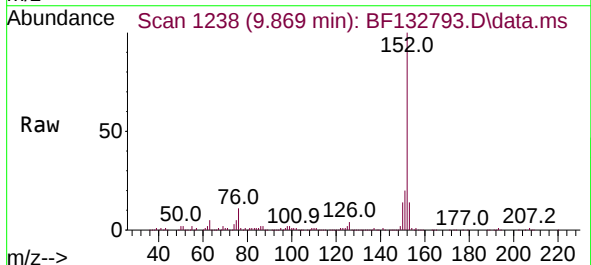
Manual Integrations

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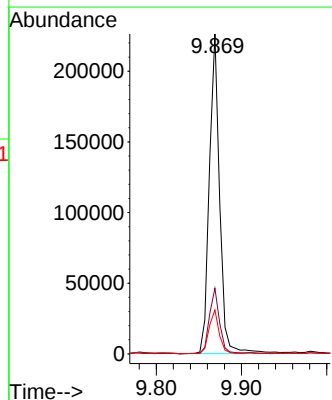
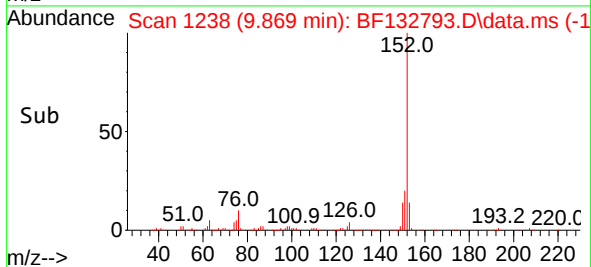
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023

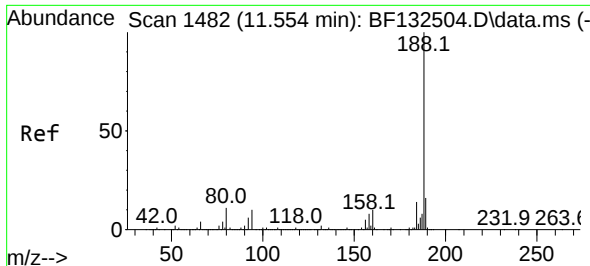


#49
Acenaphthylene
Concen: 5.296 ng
RT: 9.869 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06



Tgt Ion:152 Resp: 190272
Ion Ratio Lower Upper
152 100
151 20.5 16.4 24.6
153 13.7 11.0 16.6





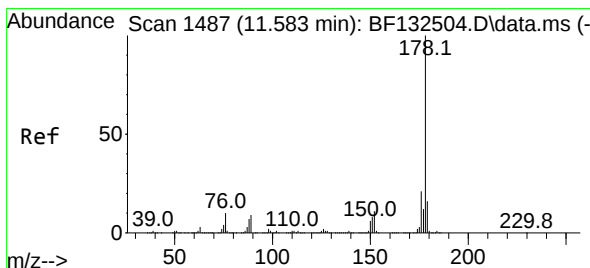
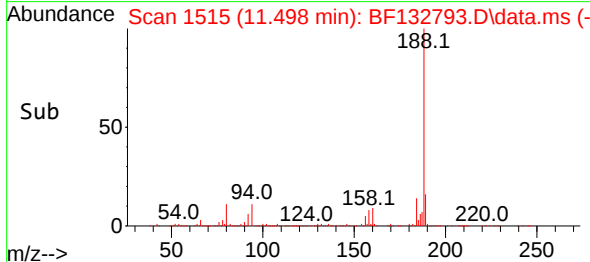
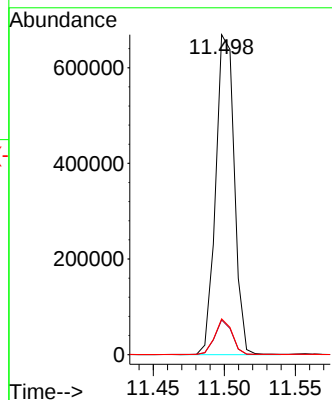
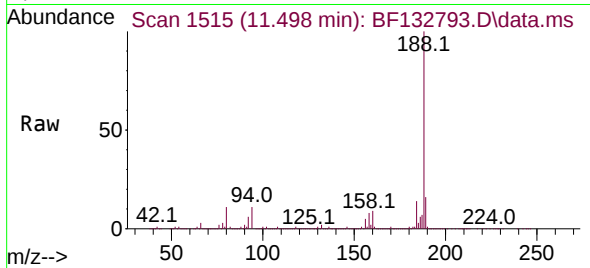
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.498 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :
BNA_F
ClientSampleId :
UNION-1

Tgt Ion:188 Resp: 612018
Ion Ratio Lower Upper
188 100
94 10.8 8.3 12.5
80 11.2 8.7 13.1

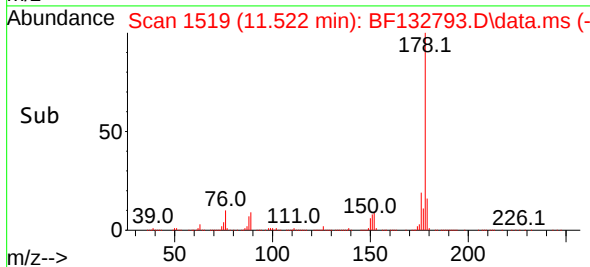
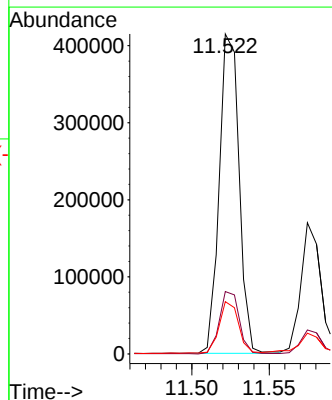
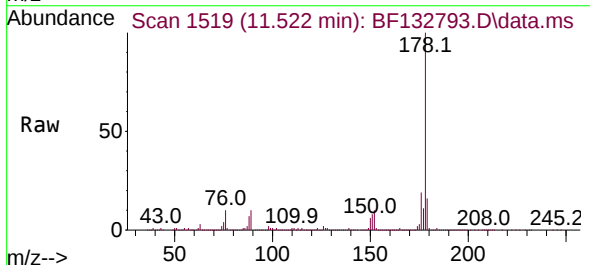
Manual Integrations
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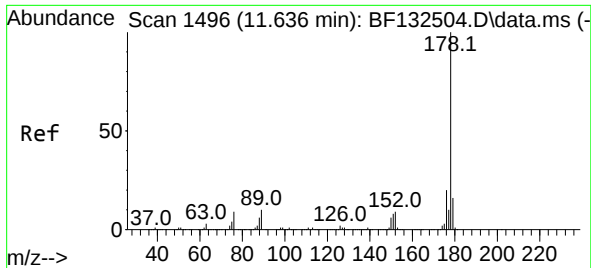
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023



#71
Phenanthrene
Concen: 11.676 ng
RT: 11.522 min Scan# 1519
Delta R.T. -0.012 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:178 Resp: 370185
Ion Ratio Lower Upper
178 100
176 19.5 16.5 24.7
179 16.3 13.0 19.6





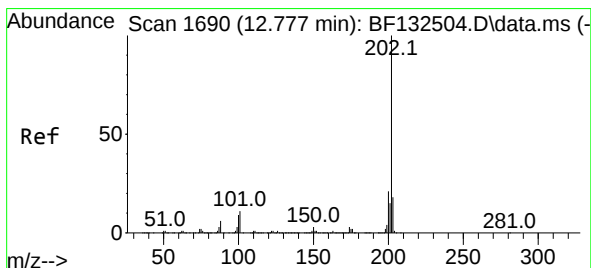
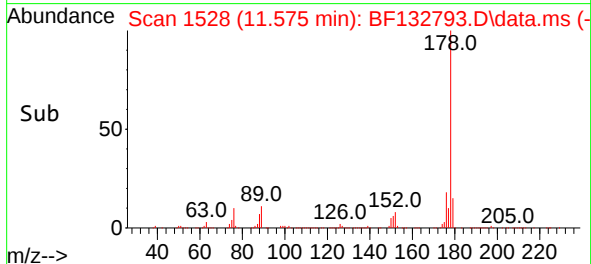
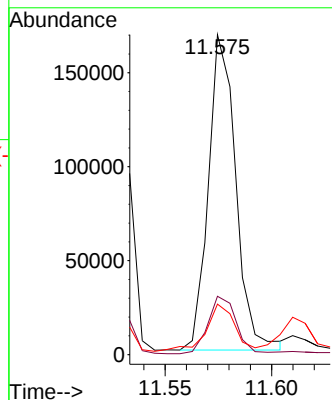
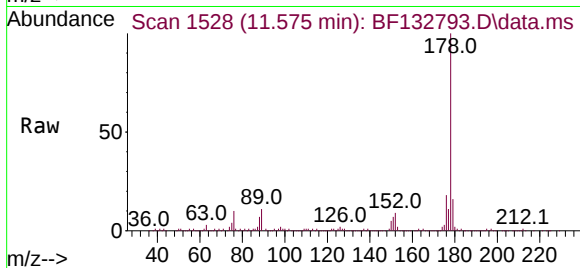
#72
 Anthracene
 Concen: 4.605 ng
 RT: 11.575 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF132793.D
 Acq: 14 Mar 2023 23:06

Instrument :
 BNA_F
 ClientSampleId :
 UNION-1

Tgt Ion:178 Resp: 150360
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.6 23.4
 179 15.8 12.5 18.7

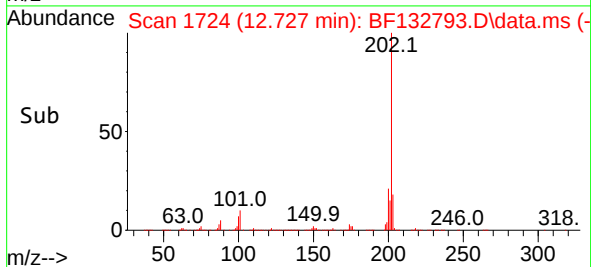
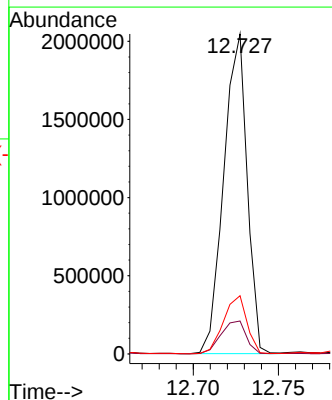
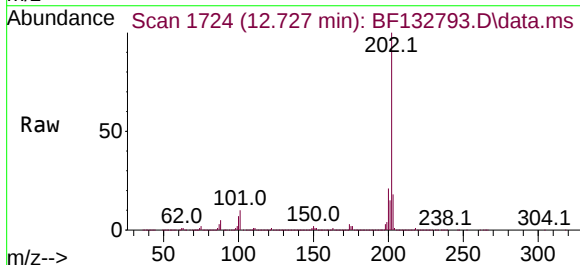
Manual Integrations
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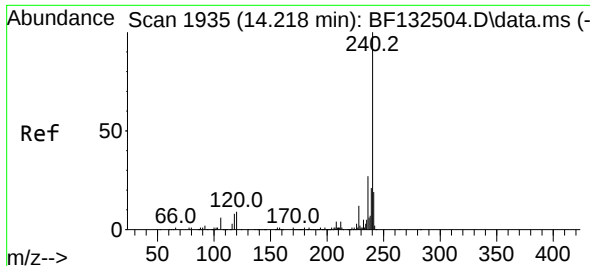
Reviewed By :Yogesh Patel 03/15/2023
 Supervised By :Jagrut Upadhyay 03/15/2023



#75
 Fluoranthene
 Concen: 56.265 ng
 RT: 12.727 min Scan# 1724
 Delta R.T. -0.000 min
 Lab File: BF132793.D
 Acq: 14 Mar 2023 23:06

Tgt Ion:202 Resp: 1950165
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 31.4
 203 18.2 0.0 38.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.163 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

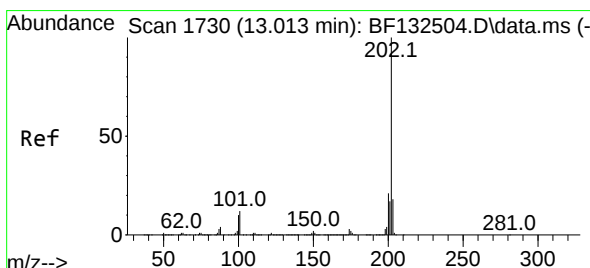
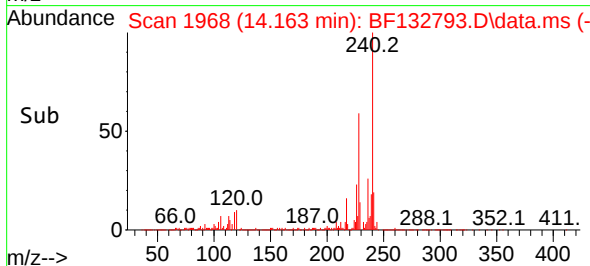
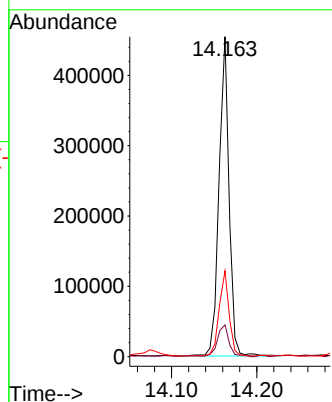
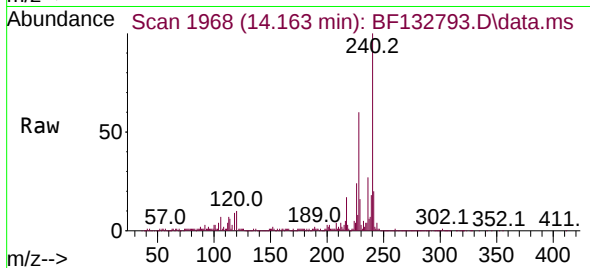
UNION-1

Tgt Ion:240 Resp: 372391
Ion Ratio Lower Upper
240 100
120 9.9 7.2 10.8
236 26.8 21.8 32.6

Manual Integrations

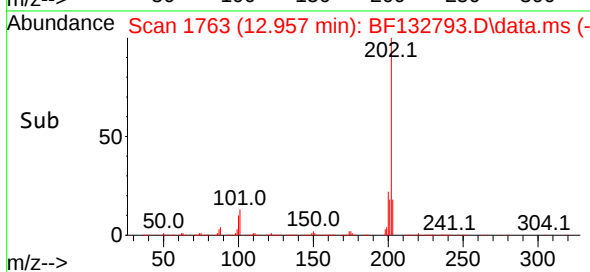
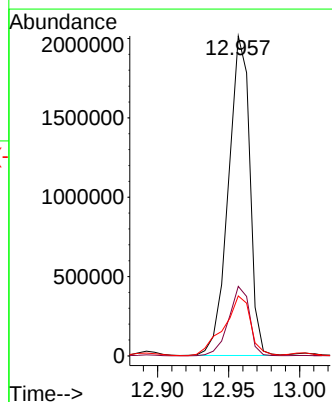
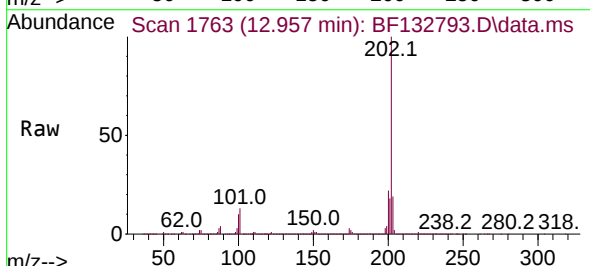
APPROVED

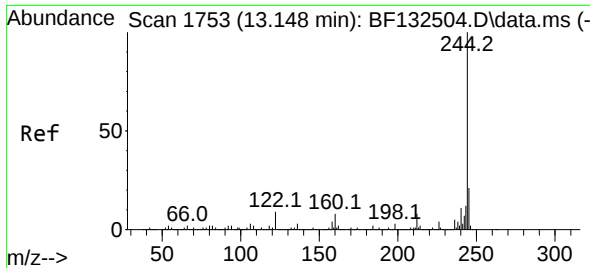
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023



#78
Pyrene
Concen: 62.200 ng
RT: 12.957 min Scan# 1763
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

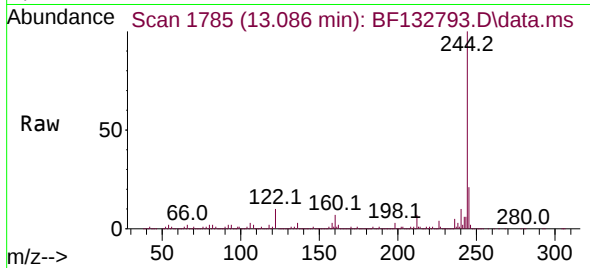
Tgt Ion:202 Resp: 2105892
Ion Ratio Lower Upper
202 100
200 21.7 17.1 25.7
203 18.7 14.6 21.8





#79
Terphenyl-d14
Concen: 61.584 ng
RT: 13.086 min Scan# 1753
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

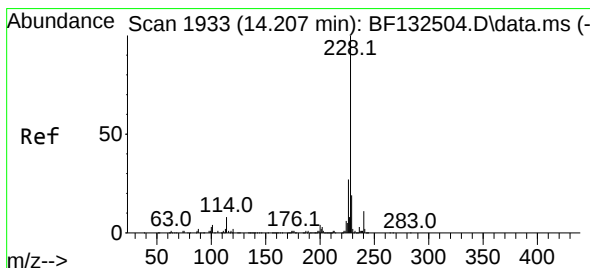
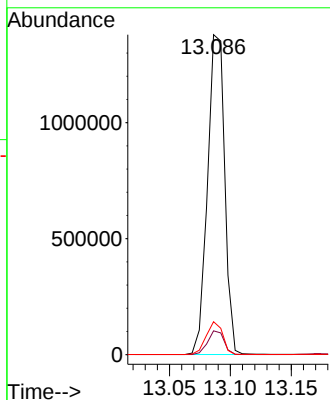
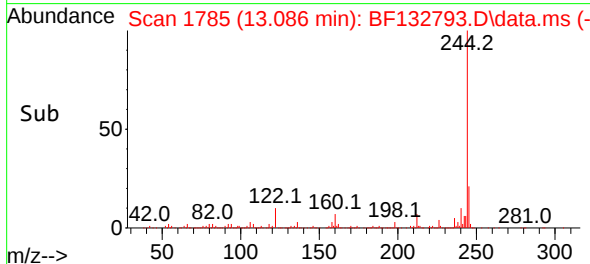
Instrument :
BNA_F
ClientSampleId :
UNION-1



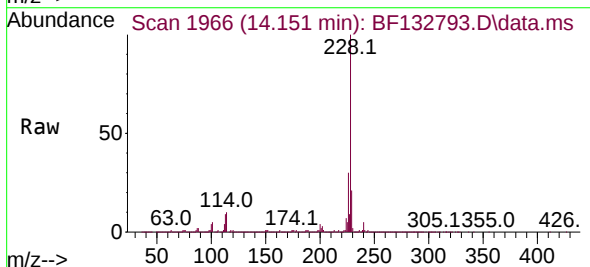
Tgt Ion:244 Resp: 1356398
Ion Ratio Lower Upper
244 100
212 7.5 6.5 9.7
122 10.3 7.5 11.3

Manual Integrations
APPROVED

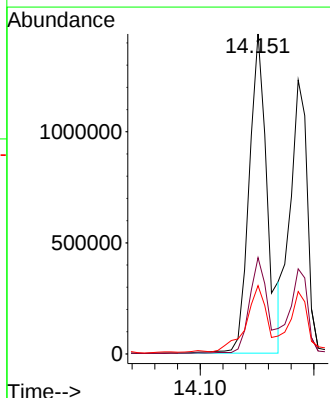
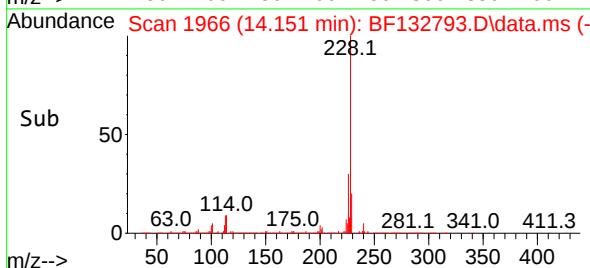
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023

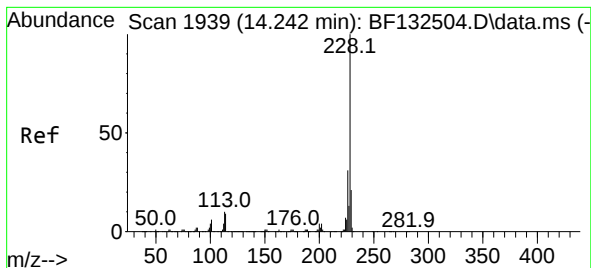


#81
Benzo(a)anthracene
Concen: 56.768 ng
RT: 14.151 min Scan# 1966
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06



Tgt Ion:228 Resp: 1581726
Ion Ratio Lower Upper
228 100
226 30.1 21.7 32.5
229 21.3 15.4 23.2





#83

Chrysene

Concen: 49.419 ng

RT: 14.186 min Scan# 1939

Delta R.T. -0.006 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

Tgt Ion:228 Resp: 1287625

Ion Ratio Lower Upper

228 100

226 31.1 25.0 37.6

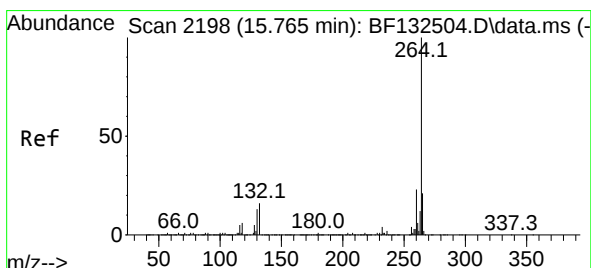
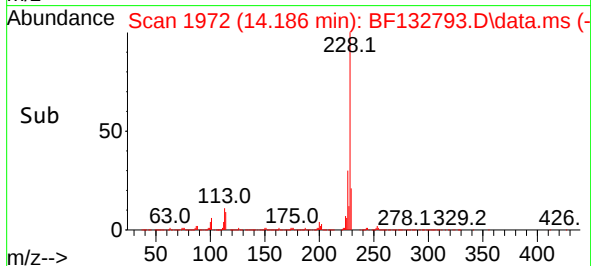
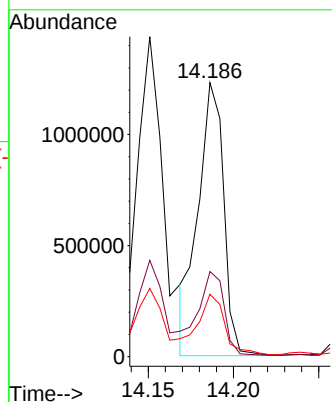
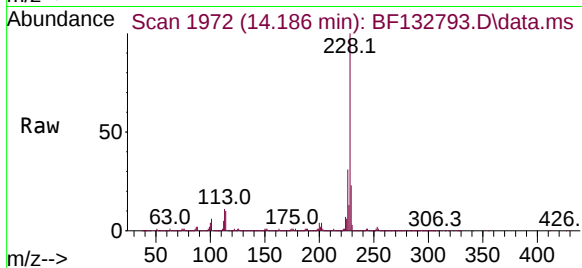
229 22.7 16.4 24.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/15/2023

Supervised By :Jagrut Upadhyay 03/15/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.692 min Scan# 2228

Delta R.T. -0.000 min

Lab File: BF132793.D

Acq: 14 Mar 2023 23:06

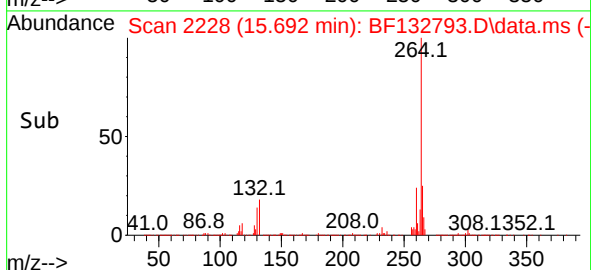
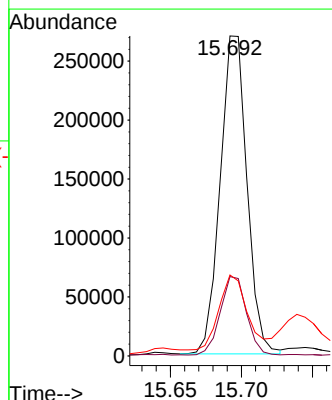
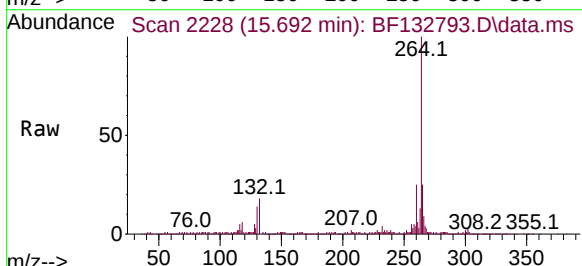
Tgt Ion:264 Resp: 354616

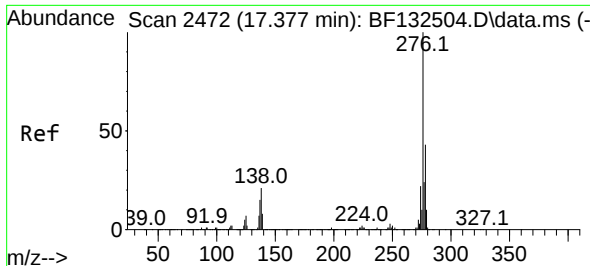
Ion Ratio Lower Upper

264 100

260 24.8 18.8 28.2

265 25.3 17.1 25.7





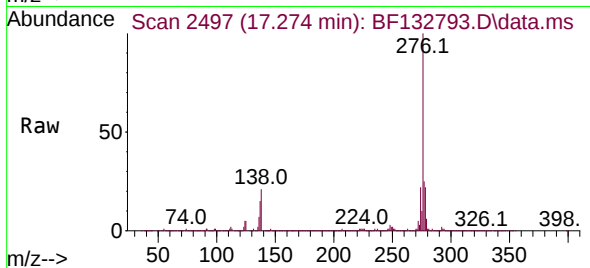
#87
Indeno(1,2,3-cd)pyrene
Concen: 37.668 ng
RT: 17.274 min Scan# 2472
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1

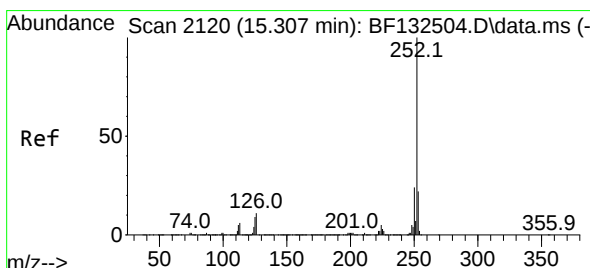
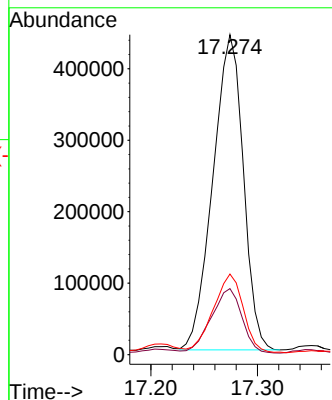
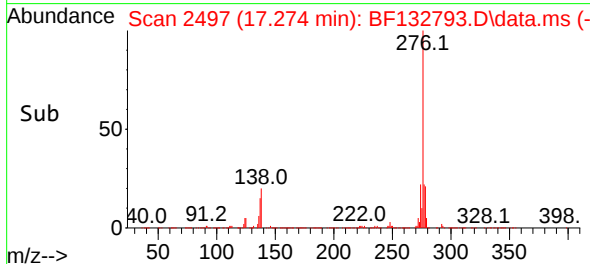


Tgt Ion:276 Resp: 875260
Ion Ratio Lower Upper
276 100
138 20.7 19.0 28.4
277 24.7 20.0 30.0

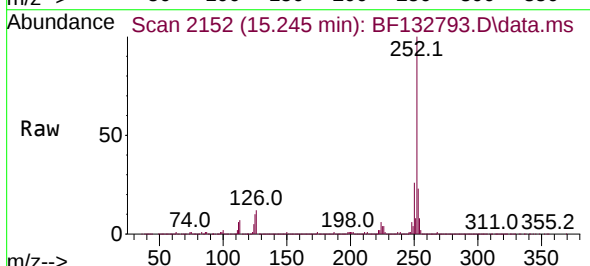
Manual Integrations

APPROVED

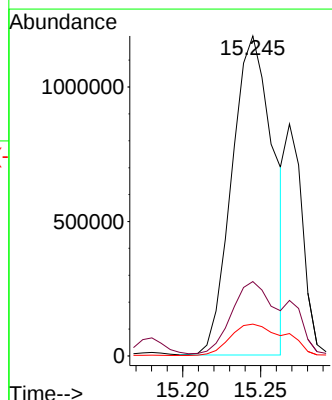
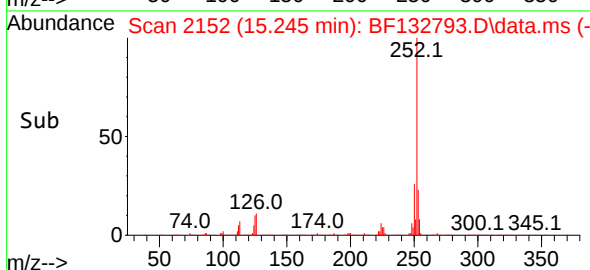
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023

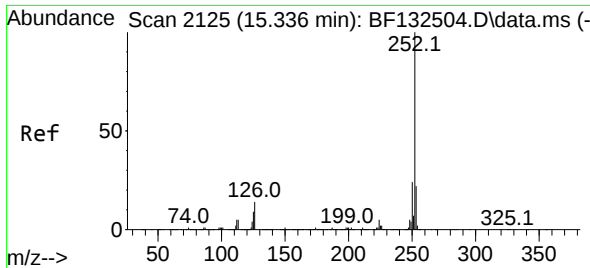


#88
Benzo(b)fluoranthene
Concen: 92.196 ng m
RT: 15.245 min Scan# 2152
Delta R.T. 0.012 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06



Tgt Ion:252 Resp: 2190993
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 9.9 7.0 10.6





#89
Benzo(k)fluoranthene
Concen: 27.957 ng m
RT: 15.268 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

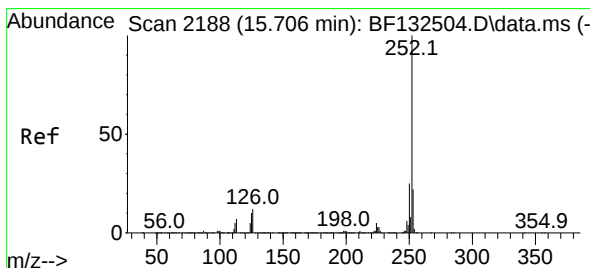
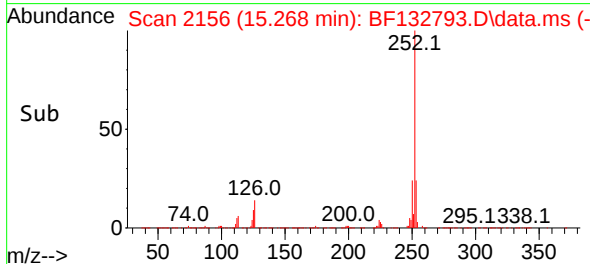
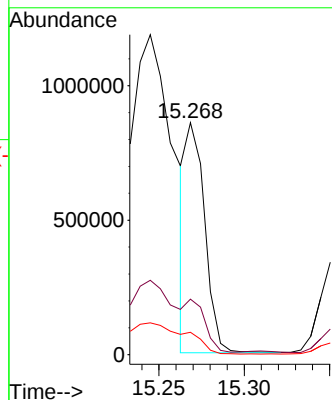
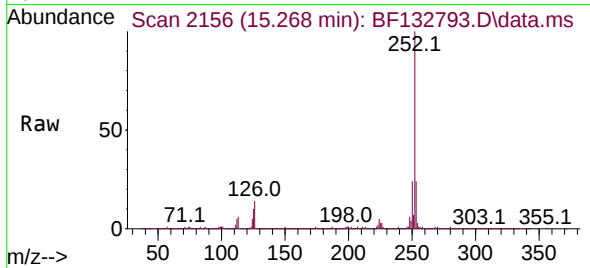
UNION-1

Tgt Ion:252 Resp: 650219
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 9.6 7.2 10.8

Manual Integrations

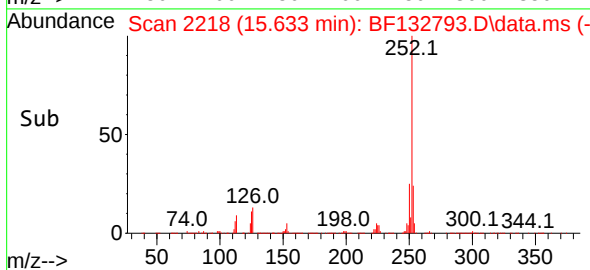
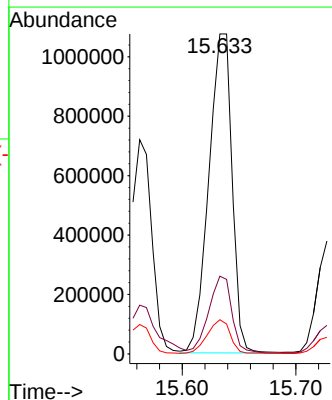
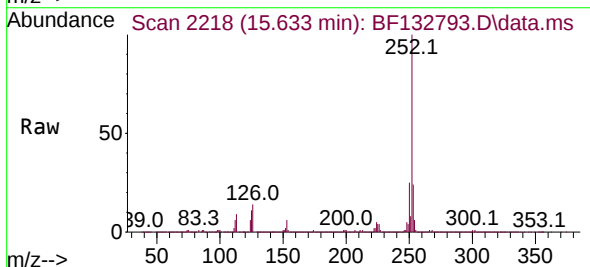
APPROVED

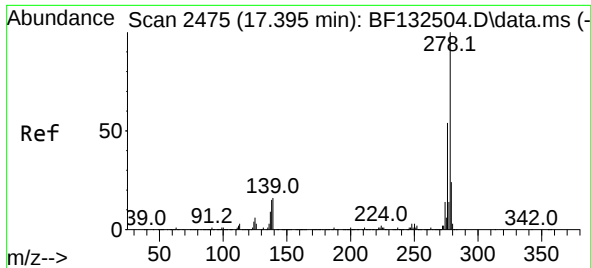
Reviewed By :Yogesh Patel 03/15/2023
Supervised By :Jagrut Upadhyay 03/15/2023



#90
Benzo(a)pyrene
Concen: 68.793 ng
RT: 15.633 min Scan# 2218
Delta R.T. 0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Tgt Ion:252 Resp: 1530064
Ion Ratio Lower Upper
252 100
253 24.3 17.2 25.8
125 10.7 8.0 12.0





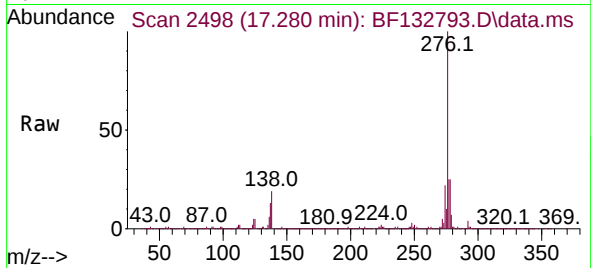
#91
Dibenzo(a,h)anthracene
Concen: 11.315 ng m
RT: 17.280 min Scan# 2475
Delta R.T. -0.006 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06

Instrument :

BNA_F

ClientSampleId :

UNION-1



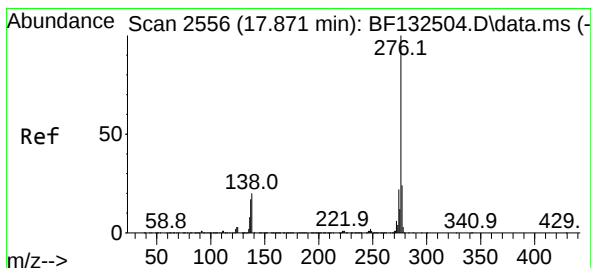
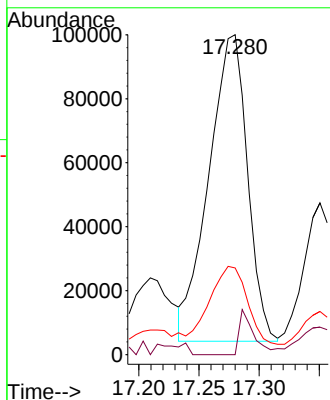
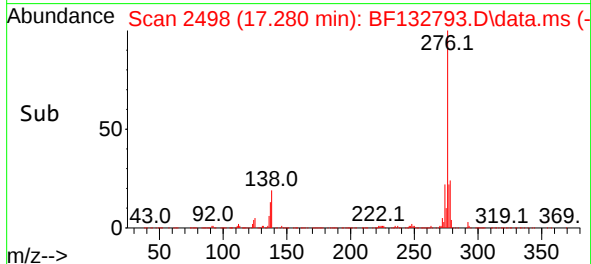
Tgt Ion:278 Resp: 214220
Ion Ratio Lower Upper
278 100
139 0.0 13.0 19.4
279 27.1 19.0 28.4

Manual Integrations

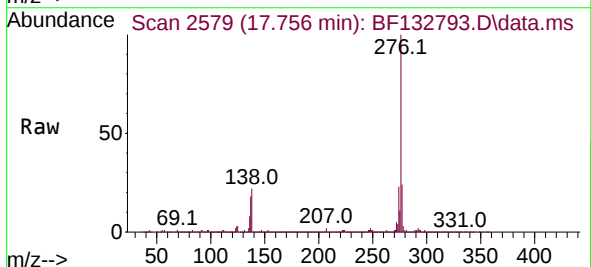
APPROVED

Reviewed By :Yogesh Patel 03/15/2023

Supervised By :Jagrut Upadhyay 03/15/2023



#92
Benzo(g,h,i)perylene
Concen: 37.684 ng
RT: 17.756 min Scan# 2579
Delta R.T. -0.000 min
Lab File: BF132793.D
Acq: 14 Mar 2023 23:06



Tgt Ion:276 Resp: 798584
Ion Ratio Lower Upper
276 100
277 24.5 18.9 28.3
138 22.1 16.2 24.4

