

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031323\
 Data File : BF132773.D
 Acq On : 13 Mar 2023 22:04
 Operator : CG\JU
 Sample : 01846-04DL 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/14/2023
 Supervised By : Jagrut Upadhyay 03/14/2023

Quant Time: Mar 14 01:35:48 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 13:44:13 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	224751	20.000	ng	0.00
21) Naphthalene-d8	8.251	136	814559	20.000	ng	0.00
39) Acenaphthene-d10	10.010	164	511188	20.000	ng	-0.01
64) Phenanthrene-d10	11.510	188	1031053	20.000	ng	0.00
76) Chrysene-d12	14.163	240	486889	20.000	ng	0.00
86) Perylene-d12	15.692	264	520454	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.599	112	807088	58.281	ng	0.00
7) Phenol-d6	6.599	99	923294	51.087	ng	-0.01
23) Nitrobenzene-d5	7.528	82	613991	35.762	ng	-0.02
42) 2,4,6-Tribromophenol	10.804	330	308059	55.802	ng	-0.01
45) 2-Fluorobiphenyl	9.322	172	1116137	33.246	ng	-0.01
79) Terphenyl-d14	13.092	244	1324994	46.011	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.275	128	216630	5.195	ng	98
37) 2-Methylnaphthalene	8.963	142	101111	3.558	ng	100
38) 1-Methylnaphthalene	9.063	142	64857	2.442	ng	99
52) Acenaphthene	10.045	154	207920	6.707	ng	98
55) Dibenzofuran	10.216	168	337732	7.473	ng	97
58) Fluorene	10.563	166	304130	8.798	ng	97
71) Phenanthrene	11.539	178	2623766	49.122	ng	99
72) Anthracene	11.586	178	907124	16.492	ng	99
73) Carbazole	11.733	167	399936	8.065	ng	98
75) Fluoranthene	12.733	202	2527202	43.280	ng	98
78) Pyrene	12.963	202	2085648	47.115	ng	99
81) Benzo(a)anthracene	14.151	228	867578	23.815	ng	98
83) Chrysene	14.186	228	668234	19.615	ng	96
87) Indeno(1,2,3-cd)pyrene	17.268	276	197592	5.794	ng	98
88) Benzo(b)fluoranthene	15.239	252	634799m	18.200	ng	
89) Benzo(k)fluoranthene	15.263	252	201595m	5.906	ng	
90) Benzo(a)pyrene	15.627	252	448986	13.754	ng	97
91) Dibenzo(a,h)anthracene	17.268	278	68698m	2.472	ng	
92) Benzo(g,h,i)perylene	17.745	276	145322	6.087	ng	99

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

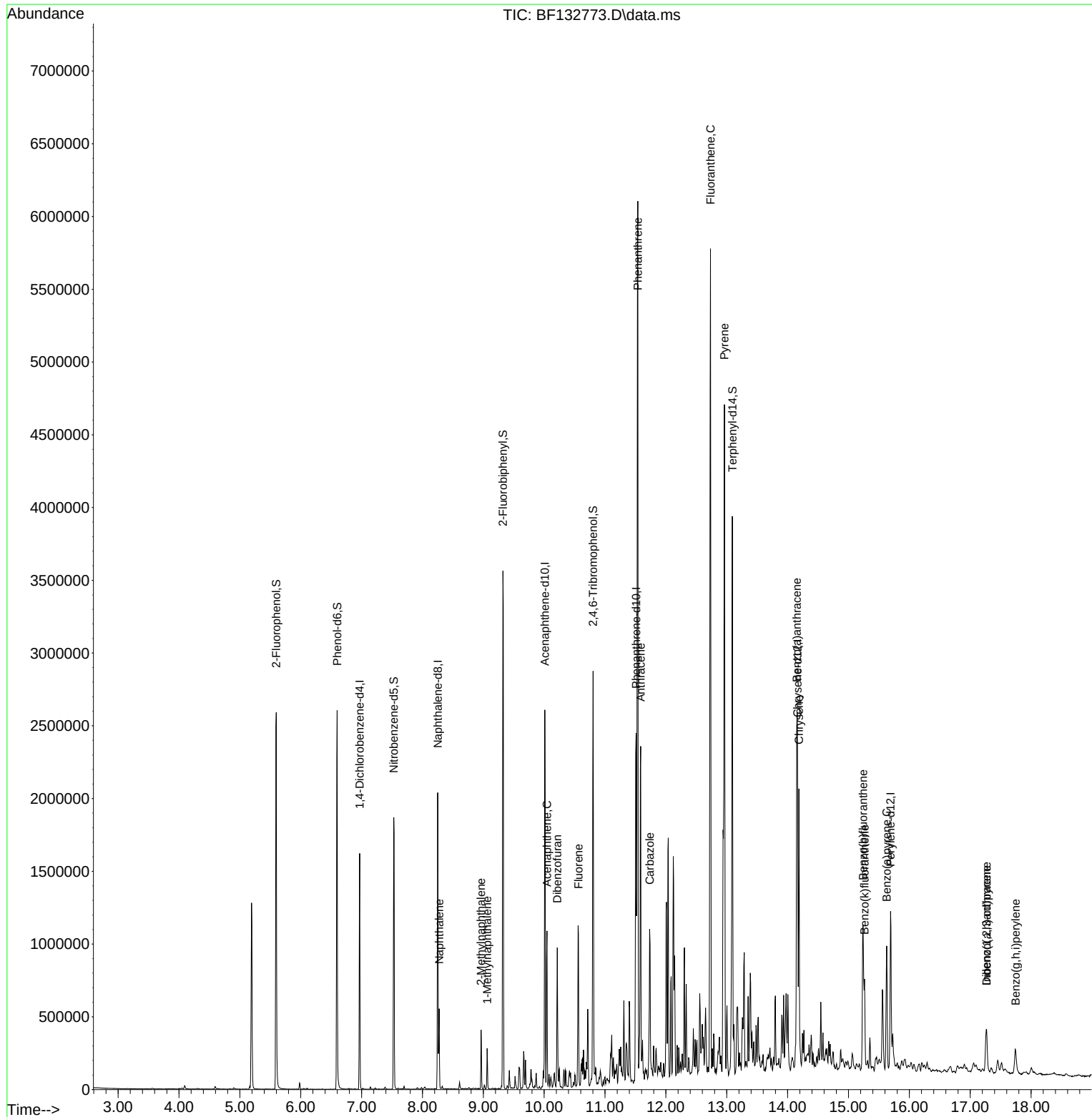
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031323\
Data File : BF132773.D
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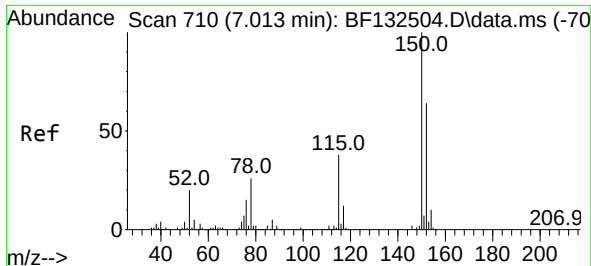
Instrument :
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Quant Time: Mar 14 01:35:48 2023
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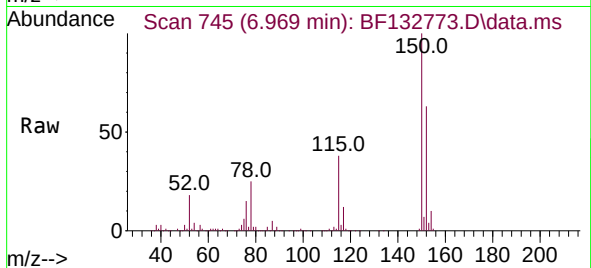
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

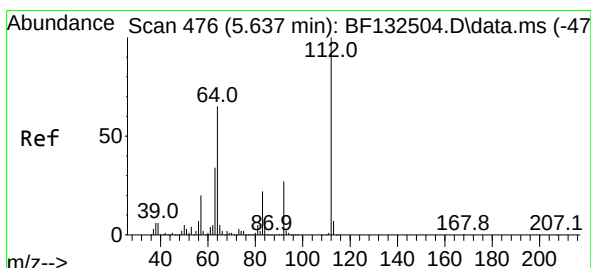
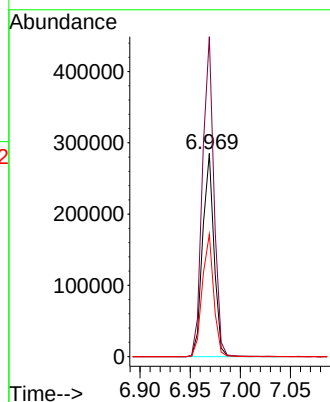
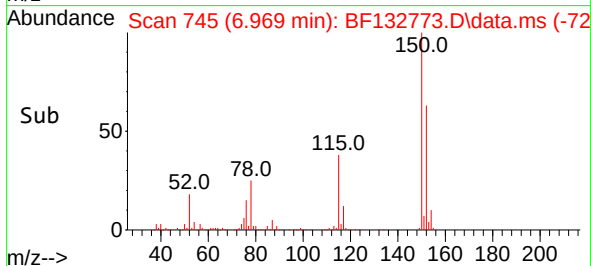
Instrument :
BNA_F
ClientSampleId :
TP-4DL



Tgt Ion:152 Resp: 22475
Ion Ratio Lower Upper
152 100
150 157.6 125.4 188.2
115 60.2 47.8 71.6

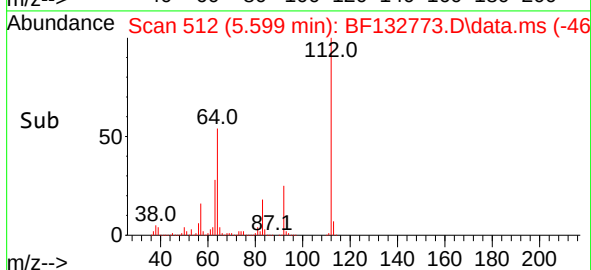
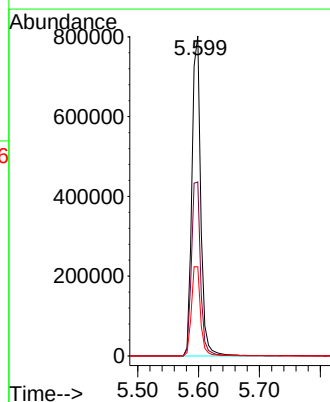
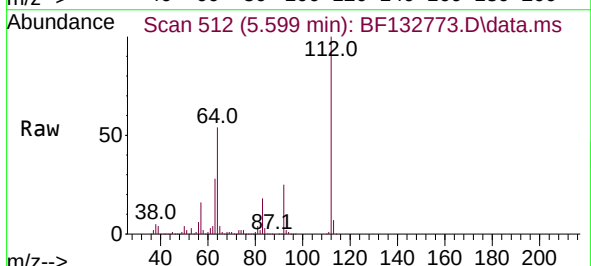
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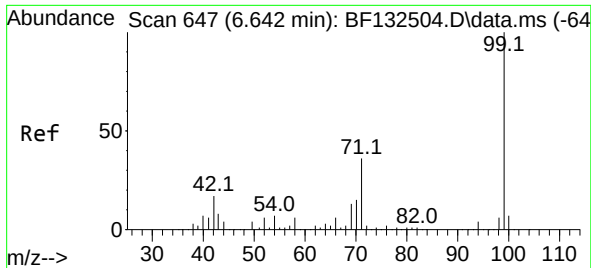
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#5
2-Fluorophenol
Concen: 58.281 ng
RT: 5.599 min Scan# 512
Delta R.T. 0.000 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

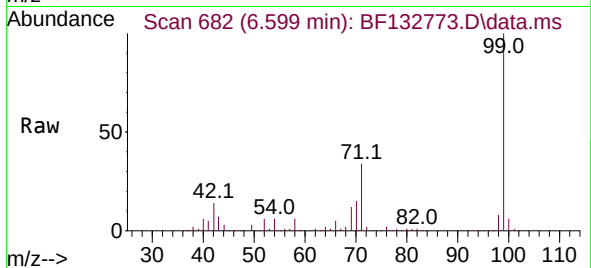
Tgt Ion:112 Resp: 807088
Ion Ratio Lower Upper
112 100
64 54.3 51.6 77.4
63 27.8 27.4 41.2





#7
Phenol-d6
Concen: 51.087 ng
RT: 6.599 min Scan# 682
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

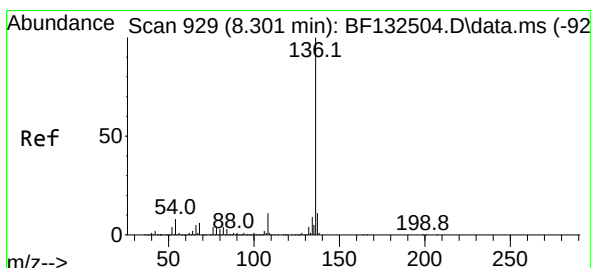
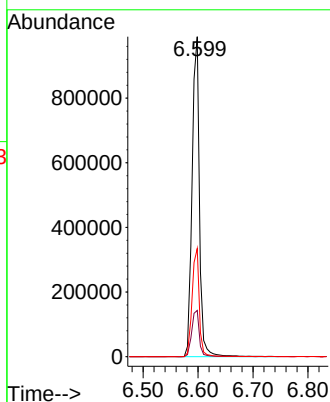
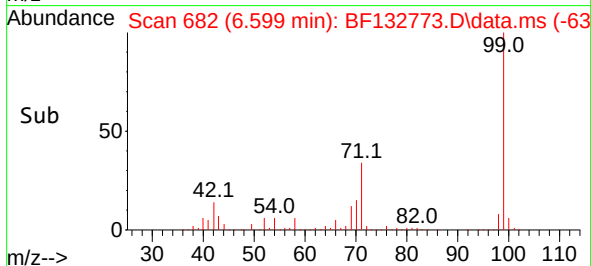
Instrument :
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ClientSampleId :
TP-4DL



Tgt Ion: 99 Resp: 923294
Ion Ratio Lower Upper
99 100
42 14.4 13.9 20.9
71 33.8 28.5 42.7

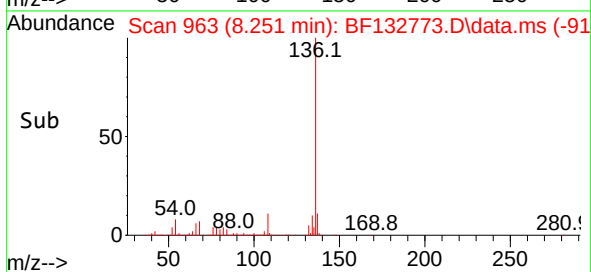
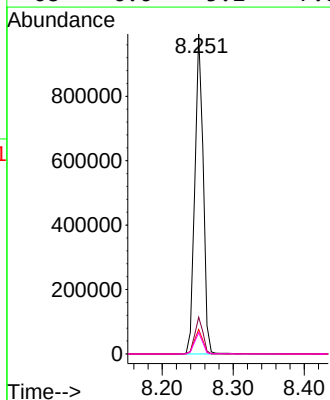
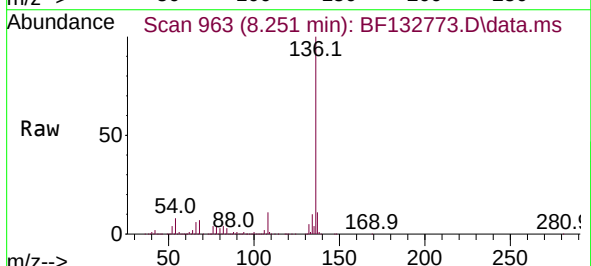
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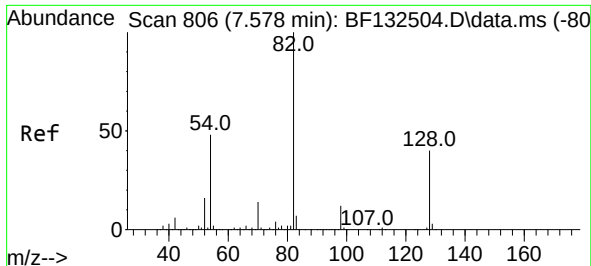
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 963
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:136 Resp: 814559
Ion Ratio Lower Upper
136 100
137 11.5 8.9 13.3
54 7.6 6.2 9.4
68 6.6 5.2 7.8





#23

Nitrobenzene-d5

Concen: 35.762 ng

RT: 7.528 min Scan# 84

Delta R.T. -0.017 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

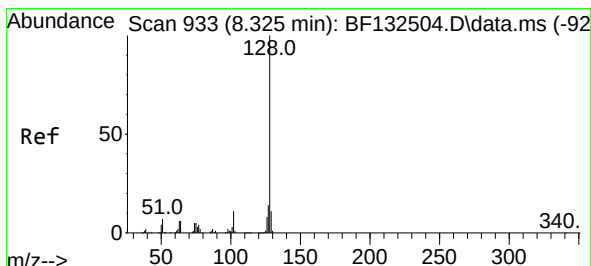
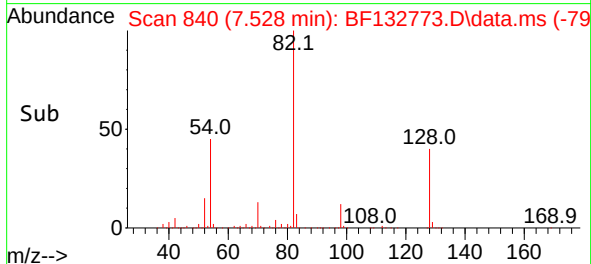
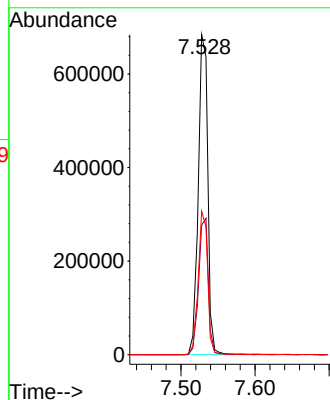
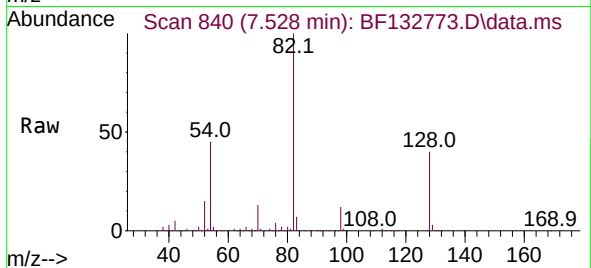
TP-4DL

Tgt Ion: 82 Resp: 613991
 Ion Ratio Lower Upper
 82 100
 128 40.4 32.2 48.2
 54 44.8 38.4 57.6

Manual Integrations

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Reviewed By :Christian Giraldo 03/14/2023
 Supervised By :Jagrut Upadhyay 03/14/2023



#31

Naphthalene

Concen: 5.195 ng

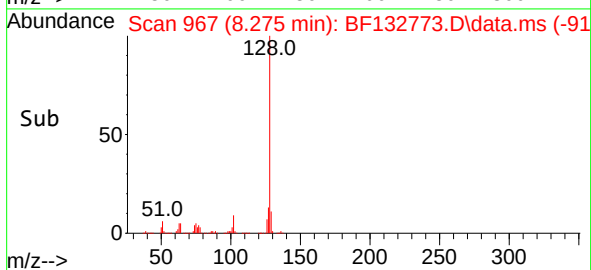
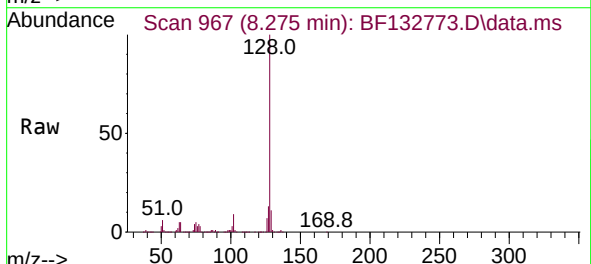
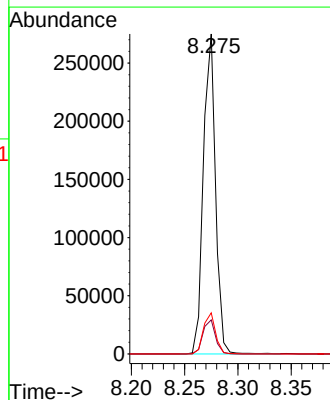
RT: 8.275 min Scan# 967

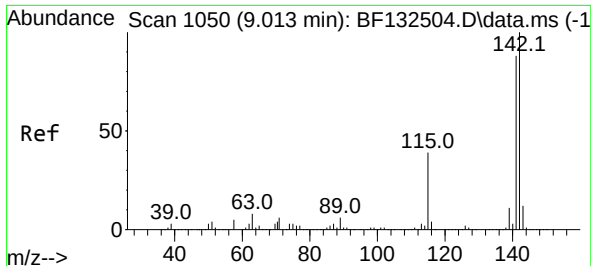
Delta R.T. -0.006 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Tgt Ion:128 Resp: 216630
 Ion Ratio Lower Upper
 128 100
 129 10.6 9.1 13.7
 127 12.8 11.0 16.6





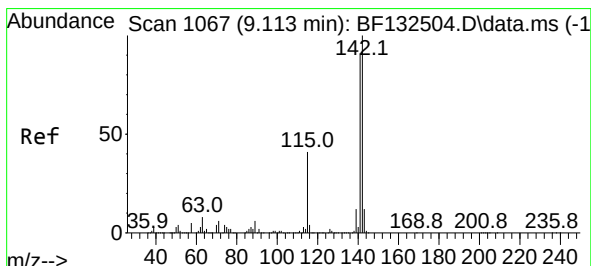
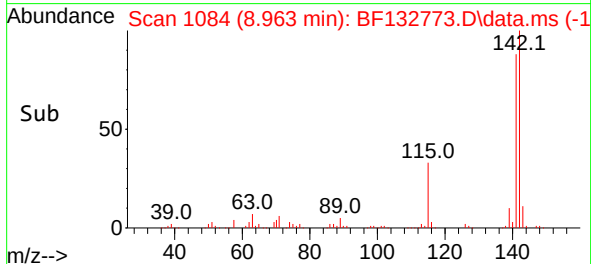
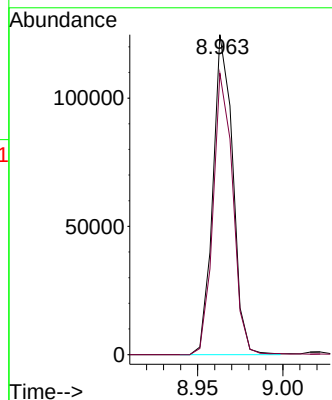
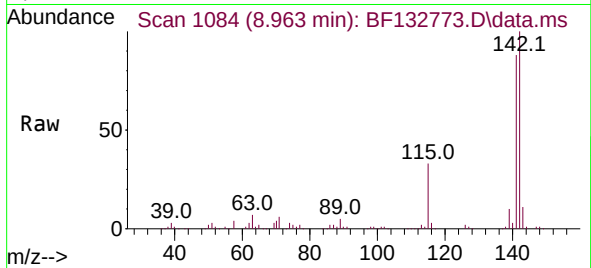
#37
2-Methylnaphthalene
Concen: 3.558 ng
RT: 8.963 min Scan# 1101
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tgt Ion:142 Resp: 101111
Ion Ratio Lower Upper
142 100
141 87.9 70.2 105.2

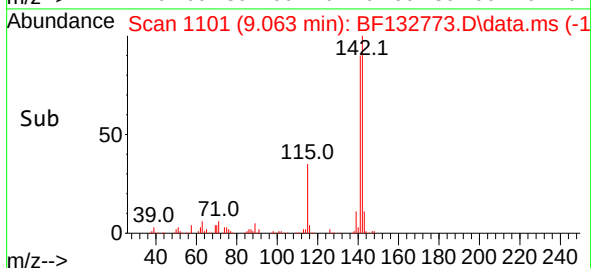
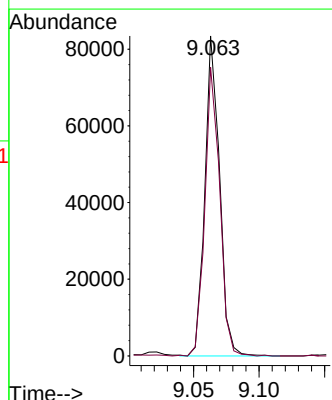
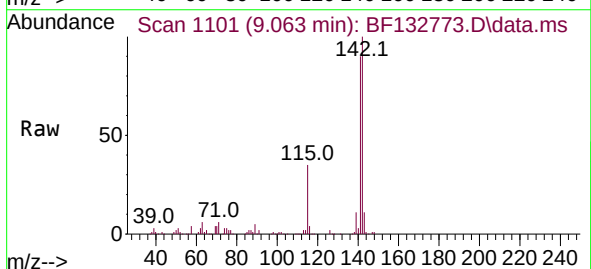
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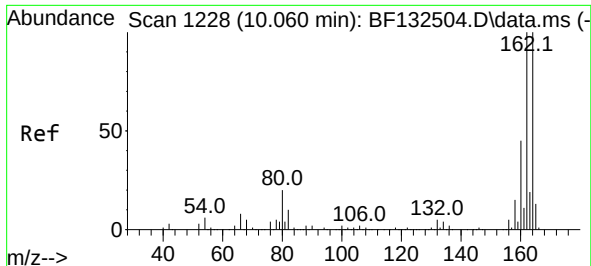
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#38
1-Methylnaphthalene
Concen: 2.442 ng
RT: 9.063 min Scan# 1101
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:142 Resp: 64857
Ion Ratio Lower Upper
142 100
141 90.2 73.0 109.6





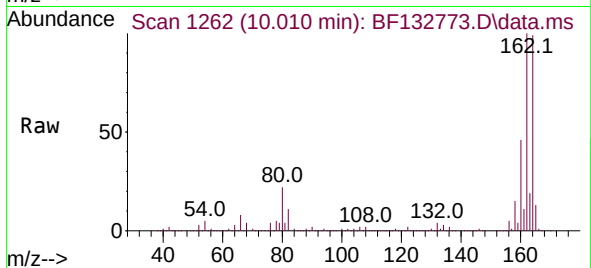
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.010 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

TP-4DL

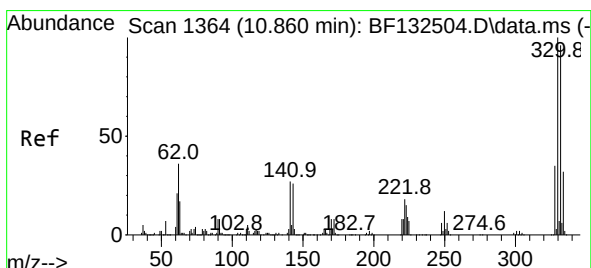
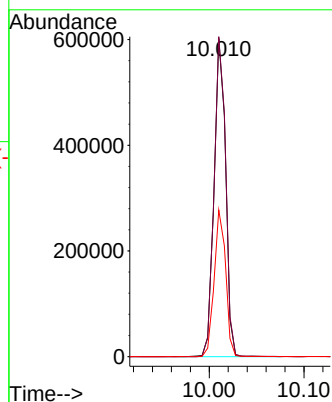
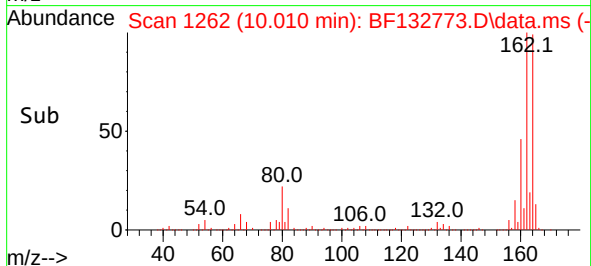


Tgt Ion:164 Resp: 511188
Ion Ratio Lower Upper
164 100
162 100.6 79.8 119.8
160 46.1 35.8 53.6

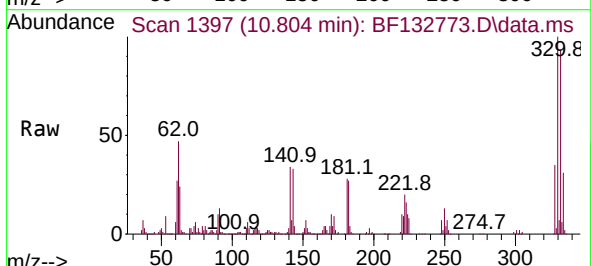
Manual Integrations

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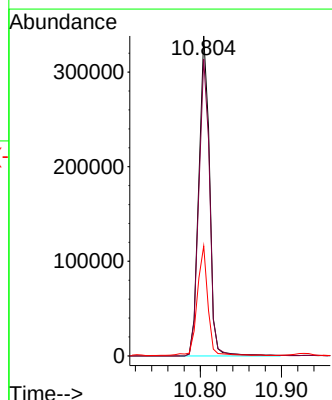
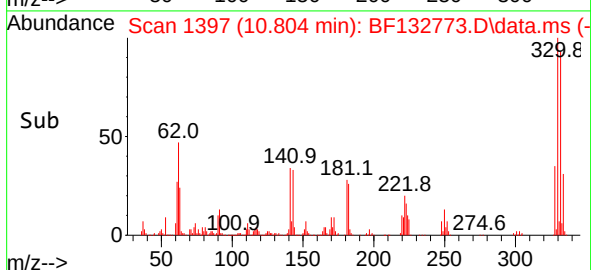
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023

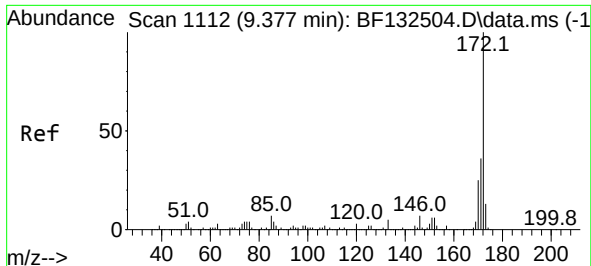


#42
2,4,6-Tribromophenol
Concen: 55.802 ng
RT: 10.804 min Scan# 1397
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04



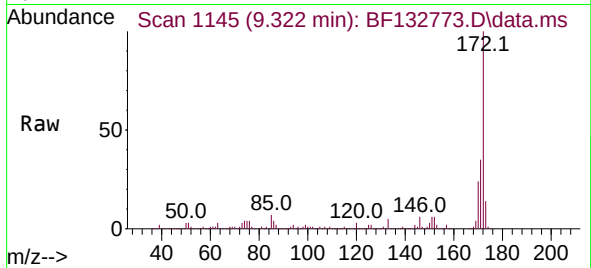
Tgt Ion:330 Resp: 308059
Ion Ratio Lower Upper
330 100
332 94.3 76.2 114.4
141 34.0 28.4 42.6





#45
2-Fluorobiphenyl
Concen: 33.246 ng
RT: 9.322 min Scan# 1112
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

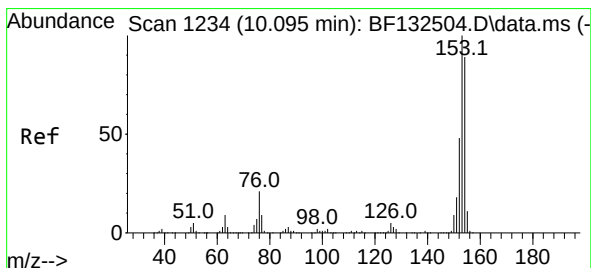
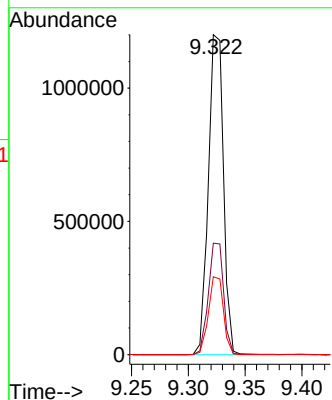
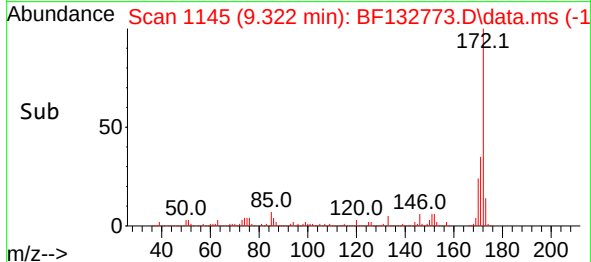
Instrument :
BNA_F
ClientSampleId :
TP-4DL



Tgt Ion:172 Resp: 111613
Ion Ratio Lower Upper
172 100
171 34.8 28.8 43.2
170 24.3 19.7 29.5

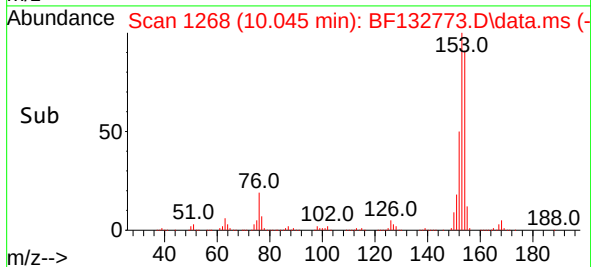
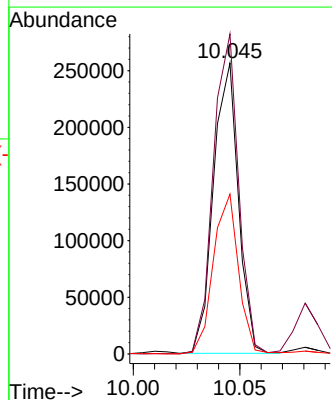
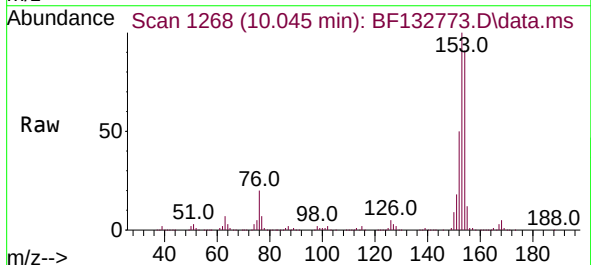
Manual Integrations
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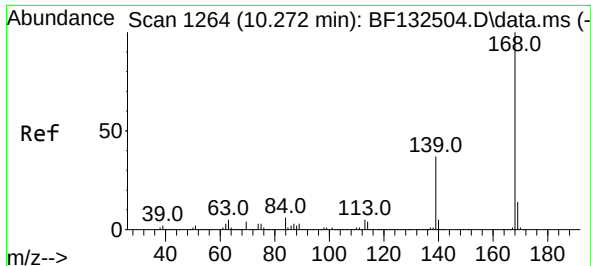
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#52
Acenaphthene
Concen: 6.707 ng
RT: 10.045 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

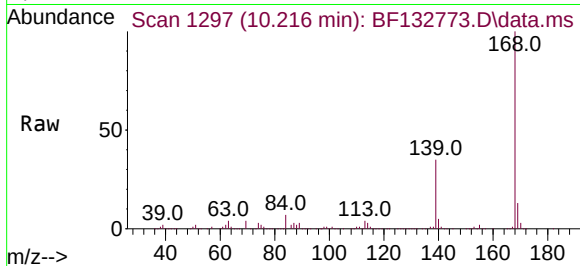
Tgt Ion:154 Resp: 207920
Ion Ratio Lower Upper
154 100
153 110.0 89.8 134.8
152 54.9 43.3 64.9





#55
Dibenzenofuran
Concen: 7.473 ng
RT: 10.216 min Scan# 1297
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

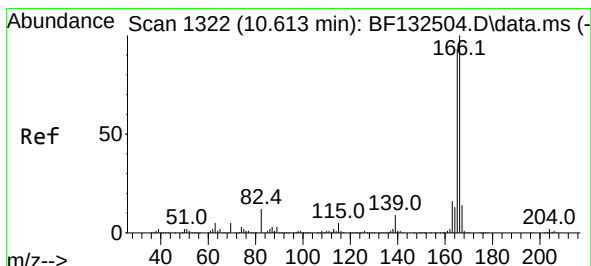
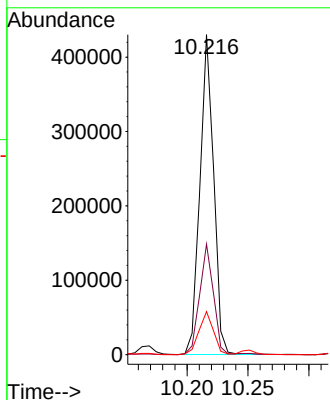
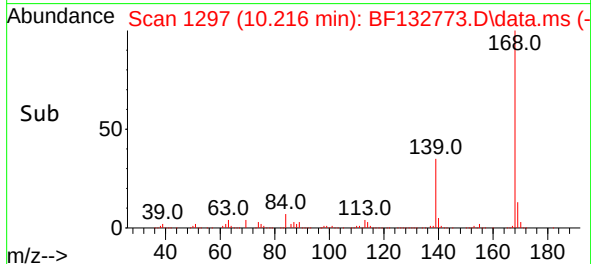
Instrument :
BNA_F
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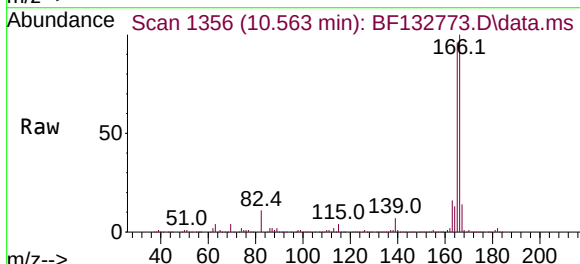
Tgt Ion:168 Resp: 337732
Ion Ratio Lower Upper
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139 34.5 29.8 44.6
169 13.4 10.9 16.3

Manual Integrations
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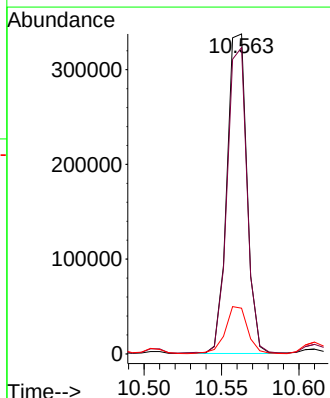
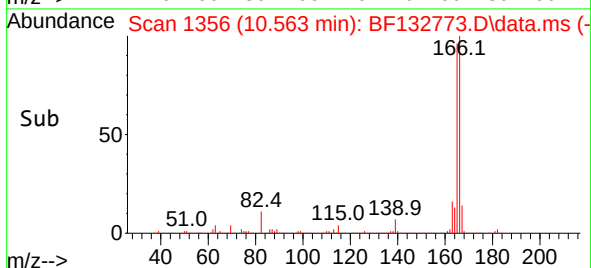
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023

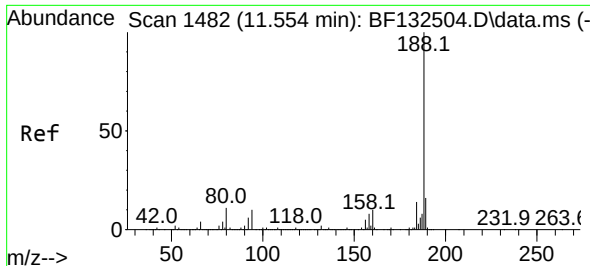


#58
Fluorene
Concen: 8.798 ng
RT: 10.563 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04



Tgt Ion:166 Resp: 304130
Ion Ratio Lower Upper
166 100
165 95.7 74.2 111.4
167 14.3 11.1 16.7





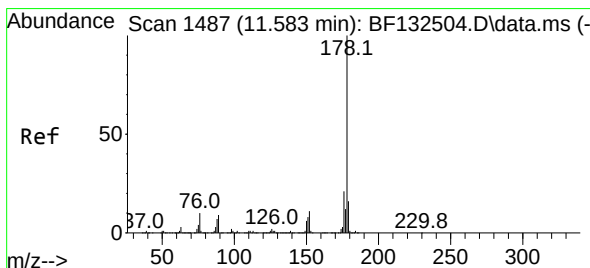
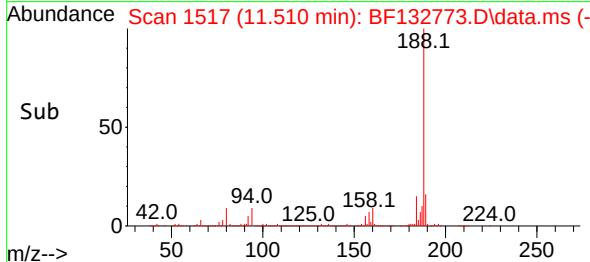
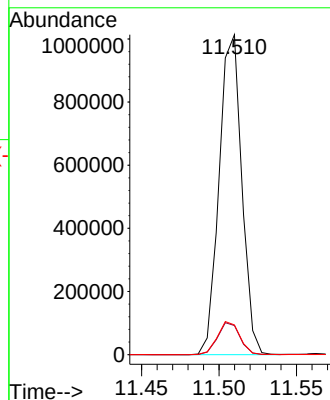
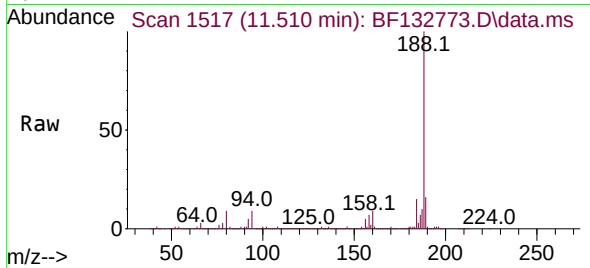
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.510 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tgt Ion:188 Resp: 1031053
Ion Ratio Lower Upper
188 100
94 9.1 8.3 12.5
80 9.3 8.7 13.1

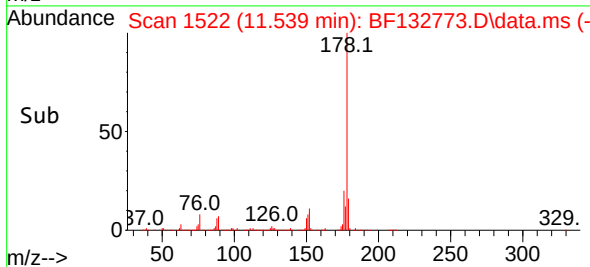
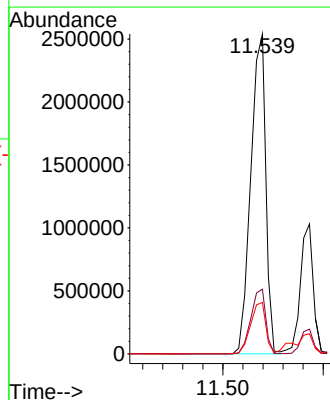
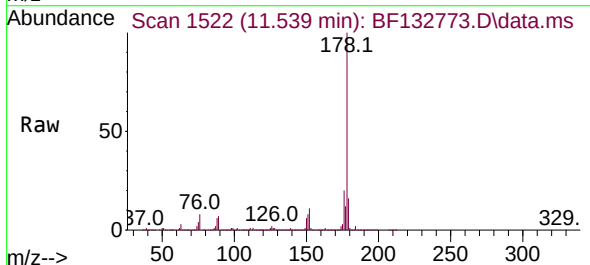
Manual Integrations
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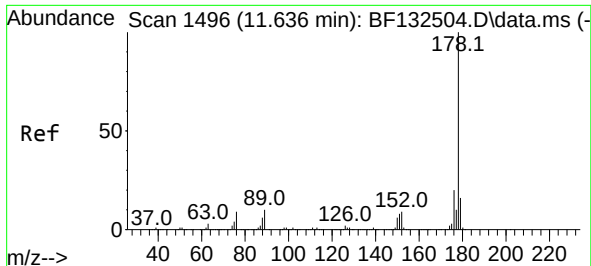
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#71
Phenanthrene
Concen: 49.122 ng
RT: 11.539 min Scan# 1522
Delta R.T. 0.000 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

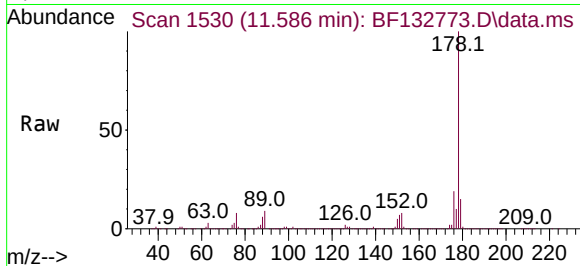
Tgt Ion:178 Resp: 2623766
Ion Ratio Lower Upper
178 100
176 20.2 16.5 24.7
179 16.1 13.0 19.6





#72
 Anthracene
 Concen: 16.492 ng
 RT: 11.586 min Scan# 1155
 Delta R.T. -0.006 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

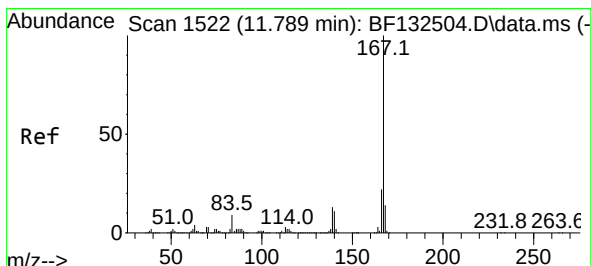
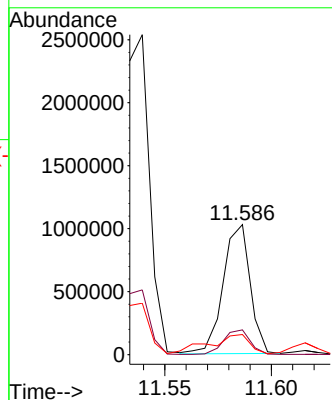
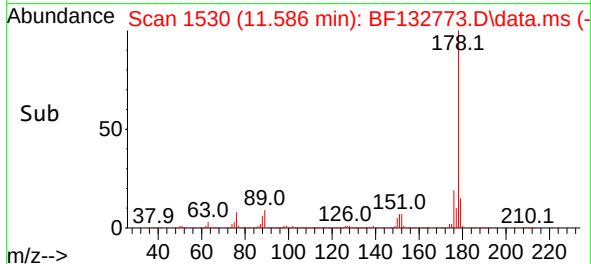
Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL



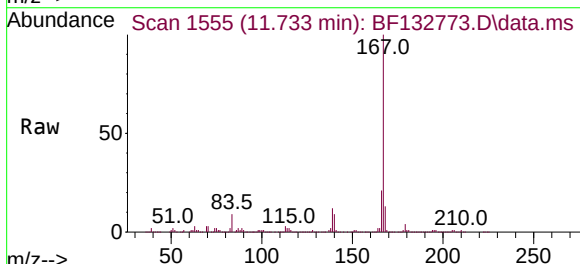
Tgt Ion:178 Resp: 907124
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.6 23.4
 179 15.5 12.5 18.7

Manual Integrations
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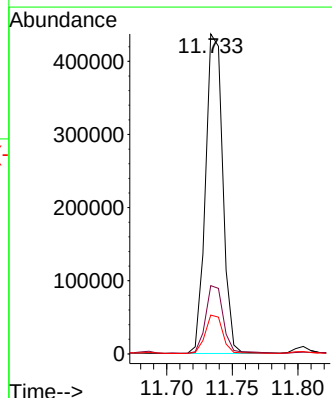
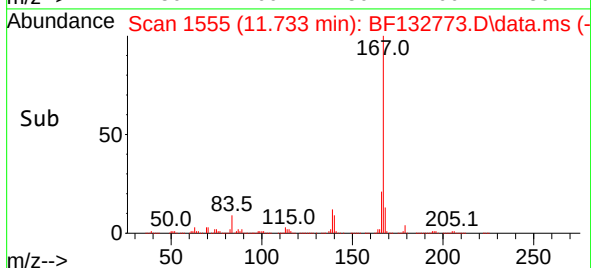
Reviewed By :Christian Giraldo 03/14/2023
 Supervised By :Jagrut Upadhyay 03/14/2023

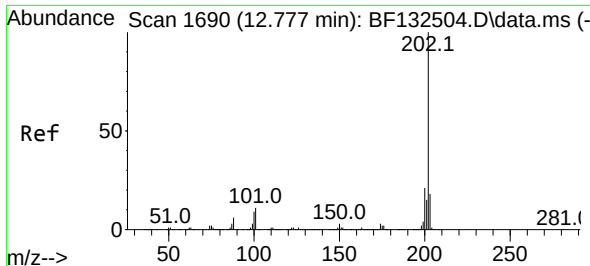


#73
 Carbazole
 Concen: 8.065 ng
 RT: 11.733 min Scan# 1555
 Delta R.T. -0.012 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04



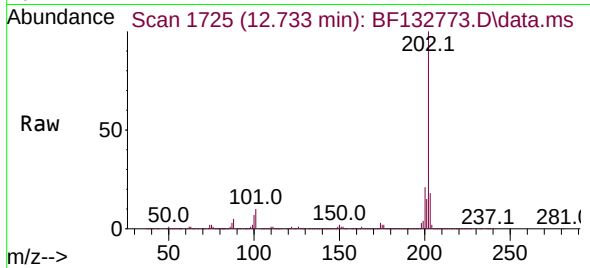
Tgt Ion:167 Resp: 399936
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.7 26.5
 139 12.1 10.5 15.7





#75
Fluoranthene
Concen: 43.280 ng
RT: 12.733 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

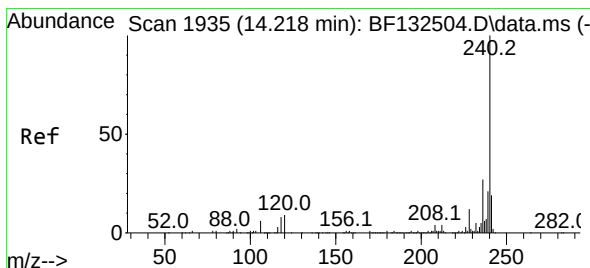
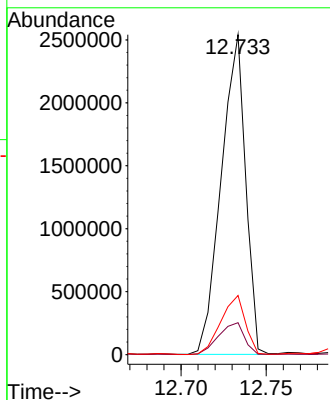
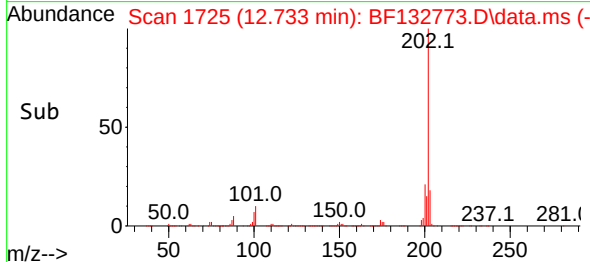
Instrument :
BNA_F
ClientSampleId :
TP-4DL



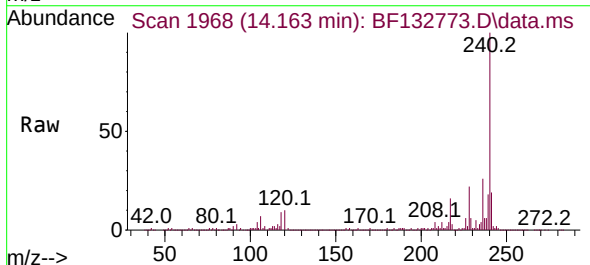
Tgt Ion:202 Resp: 2527202
Ion Ratio Lower Upper
202 100
101 10.0 0.0 31.4
203 18.5 0.0 38.0

Manual Integrations
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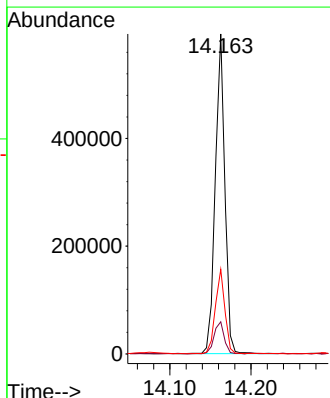
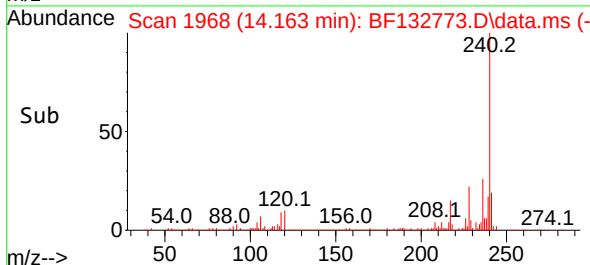
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023

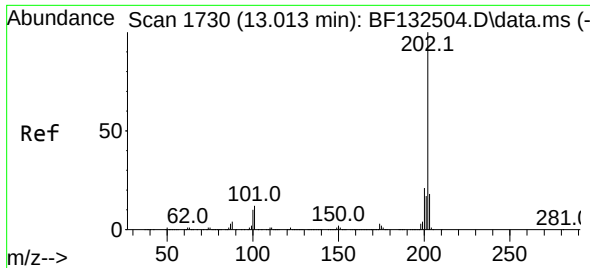


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.163 min Scan# 1968
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04



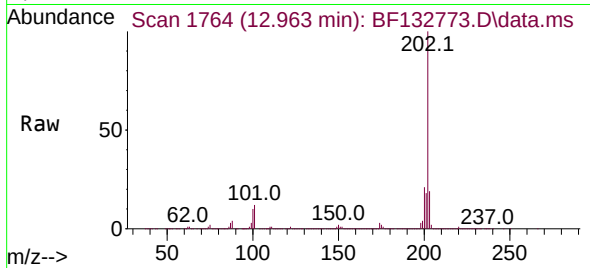
Tgt Ion:240 Resp: 486889
Ion Ratio Lower Upper
240 100
120 10.0 7.2 10.8
236 26.4 21.8 32.6





#78
Pyrene
Concen: 47.115 ng
RT: 12.963 min Scan# 1764
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

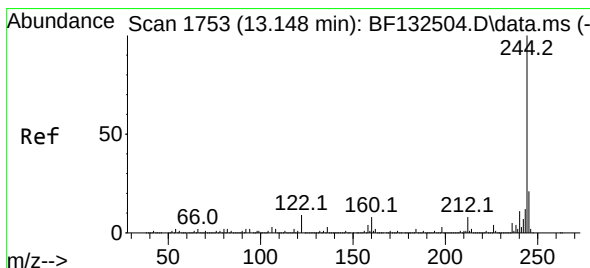
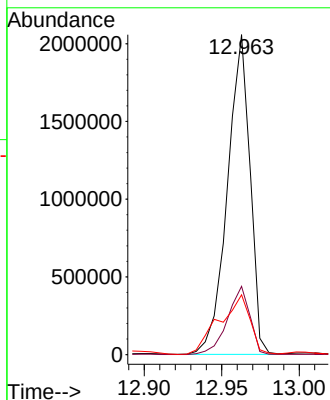
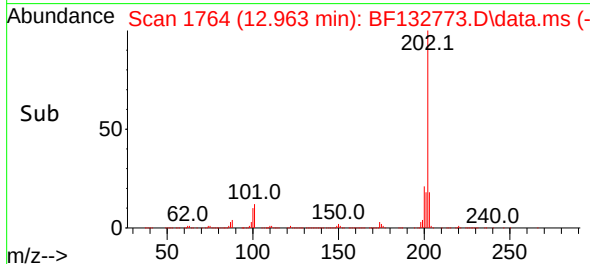
Instrument :
BNA_F
ClientSampleId :
TP-4DL



Tgt Ion:202 Resp: 2085648
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 18.7 14.6 21.8

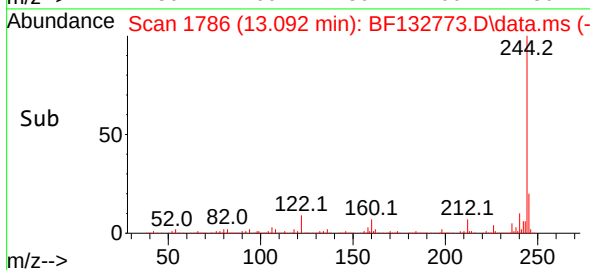
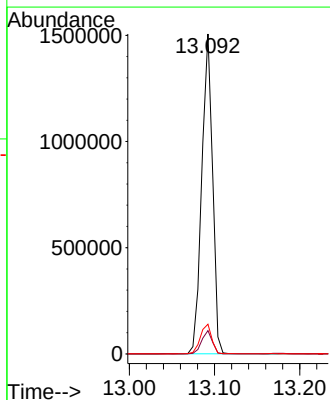
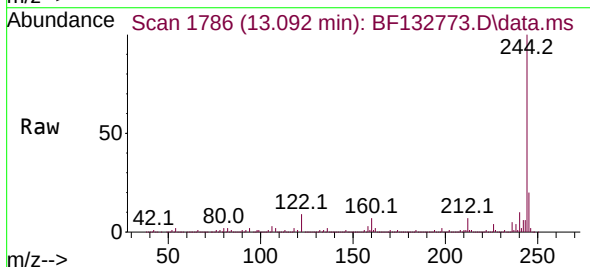
Manual Integrations
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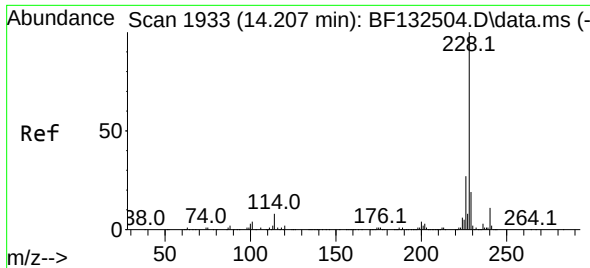
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#79
Terphenyl-d14
Concen: 46.011 ng
RT: 13.092 min Scan# 1786
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:244 Resp: 1324994
Ion Ratio Lower Upper
244 100
212 7.3 6.5 9.7
122 9.3 7.5 11.3





#81
Benzo(a)anthracene
Concen: 23.815 ng
RT: 14.151 min Scan# 1933
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

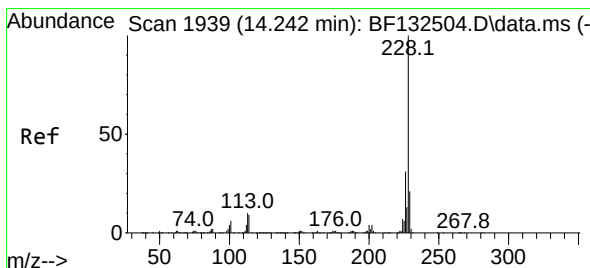
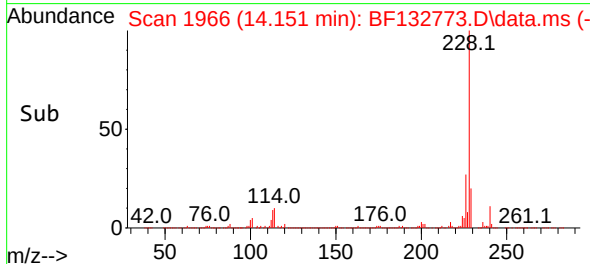
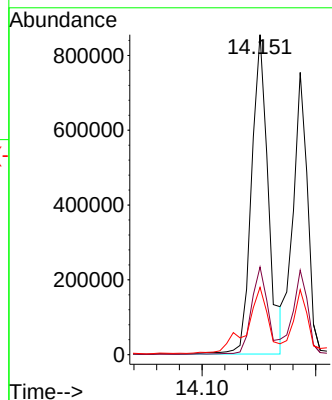
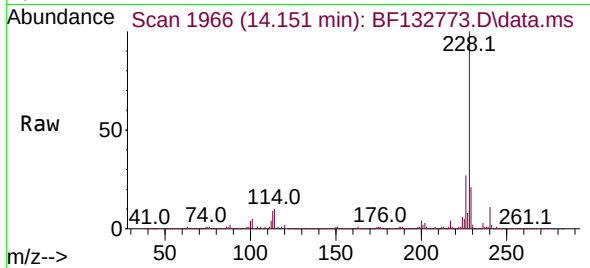
TP-4DL

Tgt Ion:228 Resp: 867578
Ion Ratio Lower Upper
228 100
226 27.4 21.7 32.5
229 21.0 15.4 23.2

Manual Integrations

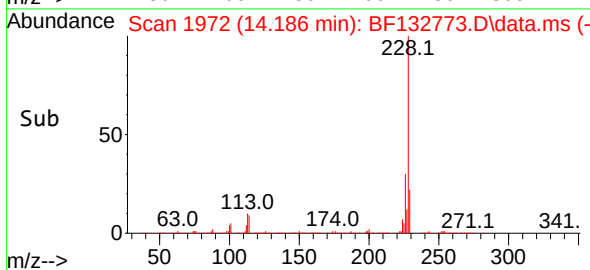
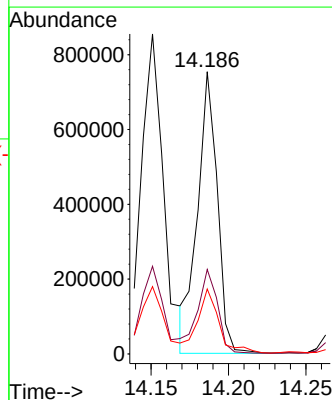
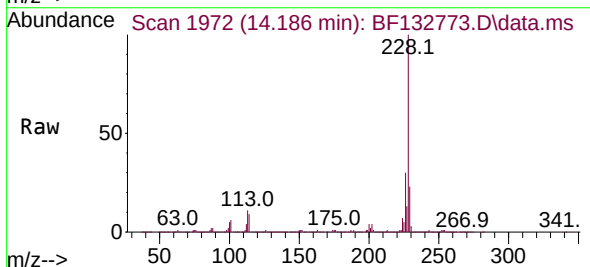
APPROVED

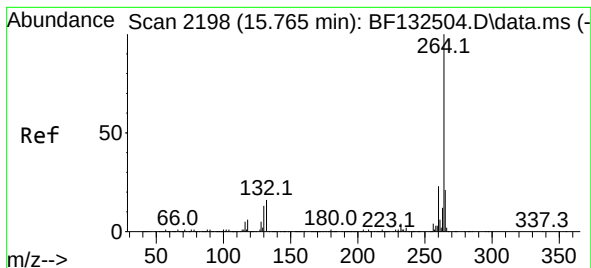
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#83
Chrysene
Concen: 19.615 ng
RT: 14.186 min Scan# 1972
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:228 Resp: 668234
Ion Ratio Lower Upper
228 100
226 29.9 25.0 37.6
229 23.0 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.692 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

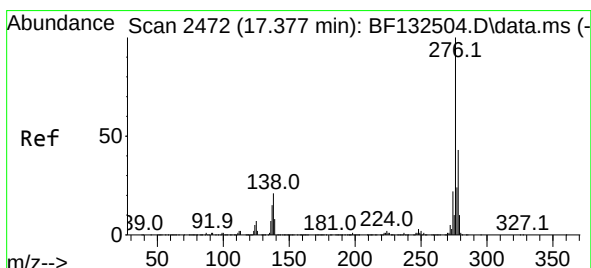
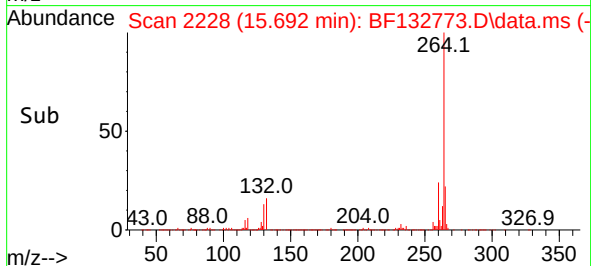
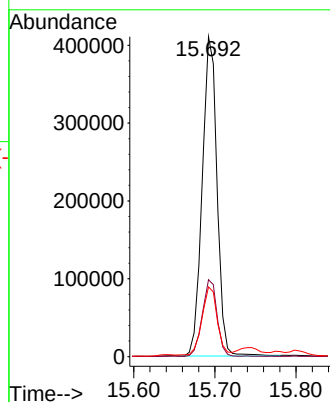
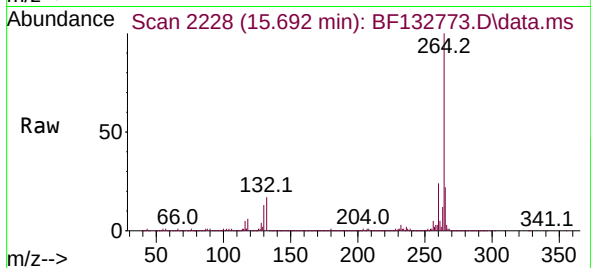
TP-4DL

Tgt Ion:264	Resp: 520454
Ion Ratio	Lower Upper
264	100
260	24.0 18.8 28.2
265	21.8 17.1 25.7

Manual Integrations

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Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.794 ng

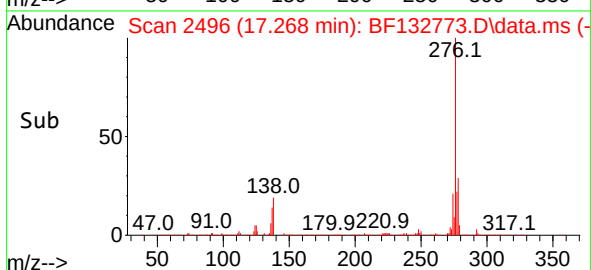
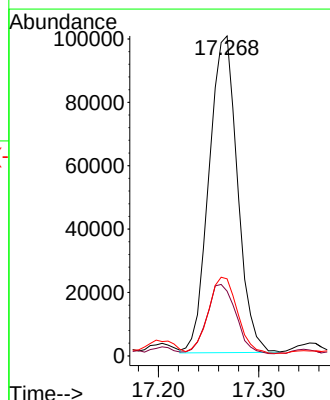
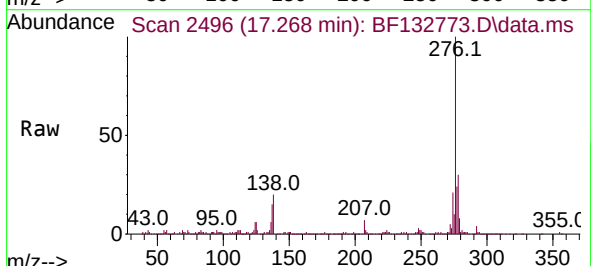
RT: 17.268 min Scan# 2496

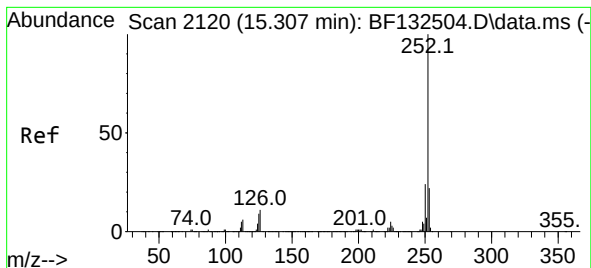
Delta R.T. -0.023 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Tgt Ion:276	Resp: 197592
Ion Ratio	Lower Upper
276	100
138	22.2 19.0 28.4
277	24.3 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 18.200 ng m

RT: 15.239 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

TP-4DL

Tgt Ion:252 Resp: 634799

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

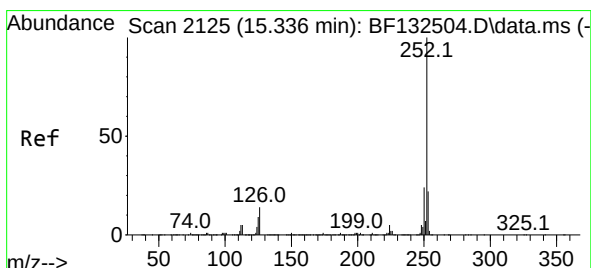
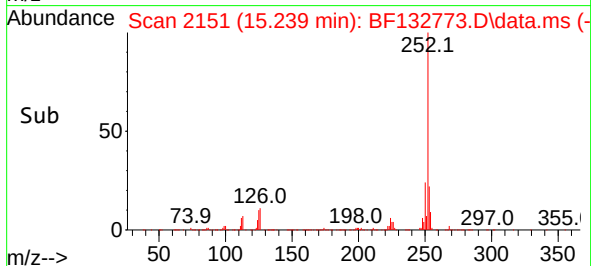
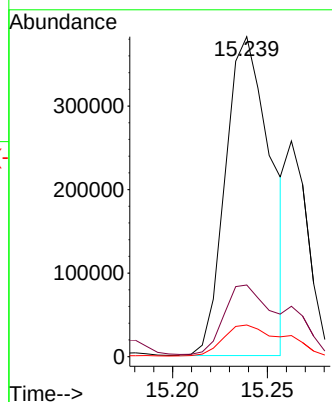
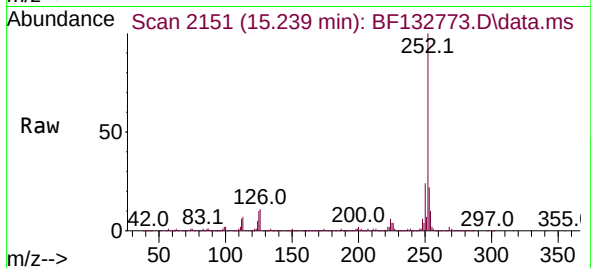
125 9.9 7.0 10.6

Manual Integrations

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Reviewed By :Christian Giraldo 03/14/2023

Supervised By :Jagrut Upadhyay 03/14/2023



#89

Benzo(k)fluoranthene

Concen: 5.906 ng m

RT: 15.263 min Scan# 2155

Delta R.T. -0.012 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

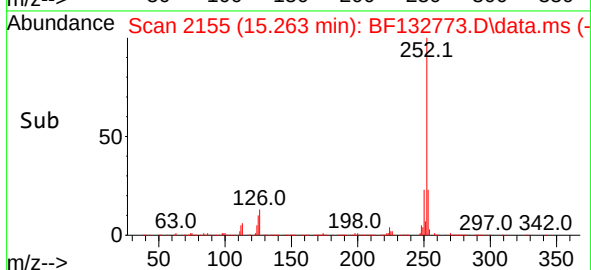
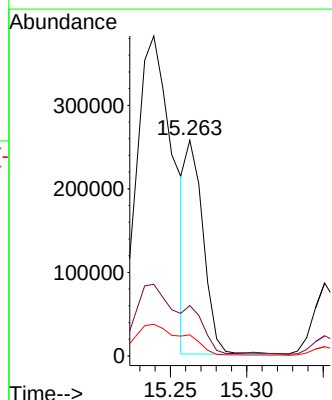
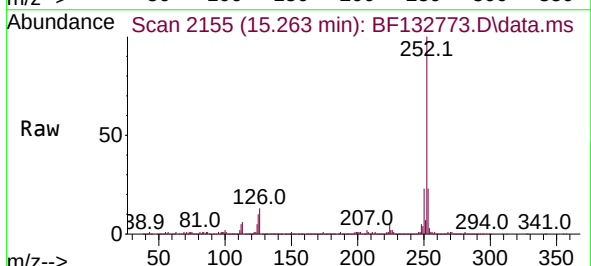
Tgt Ion:252 Resp: 201595

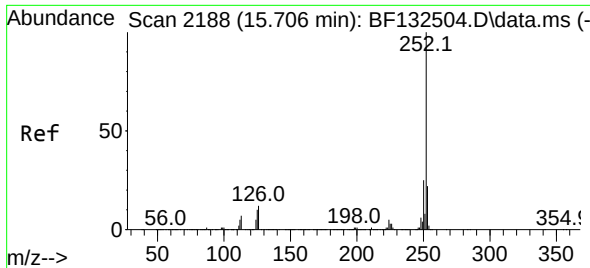
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

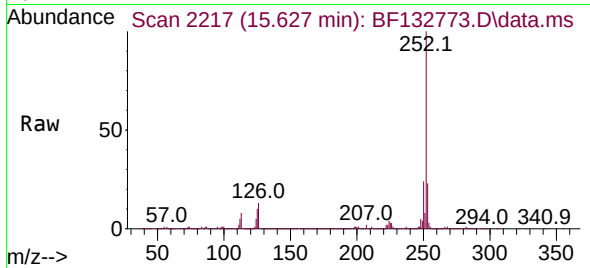
125 9.8 7.2 10.8





#90
Benzo(a)pyrene
Concen: 13.754 ng
RT: 15.627 min Scan# 2188
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

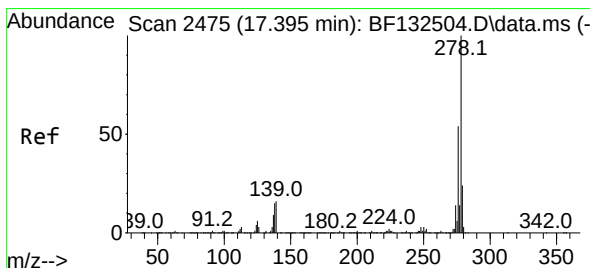
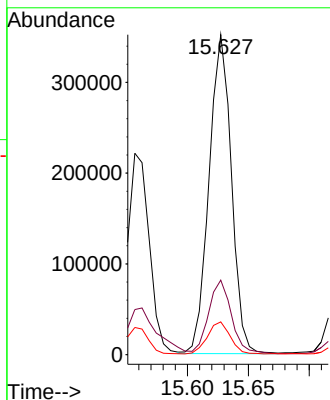
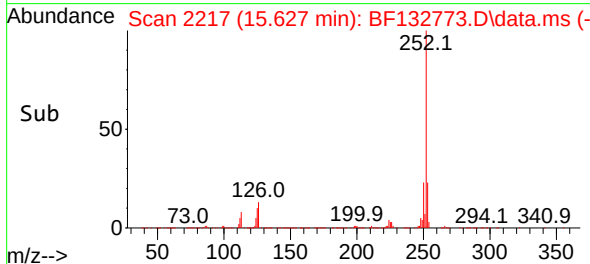
Instrument :
BNA_F
ClientSampleId :
TP-4DL



Tgt Ion:252 Resp: 448986
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 10.2 8.0 12.0

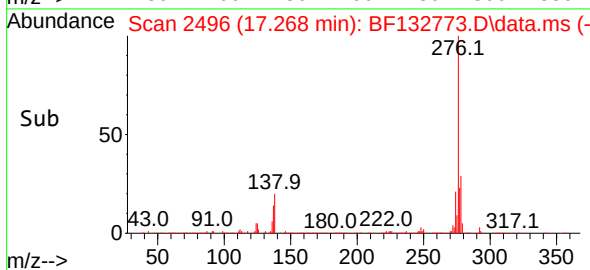
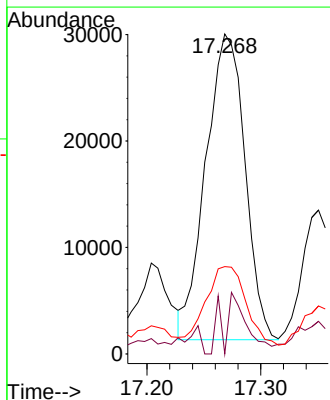
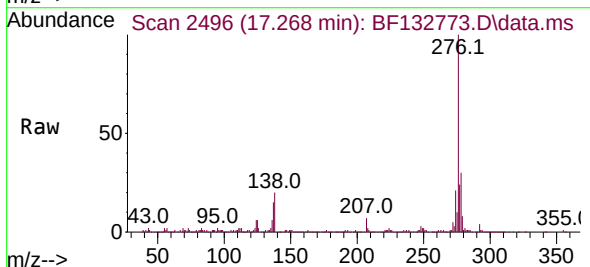
Manual Integrations
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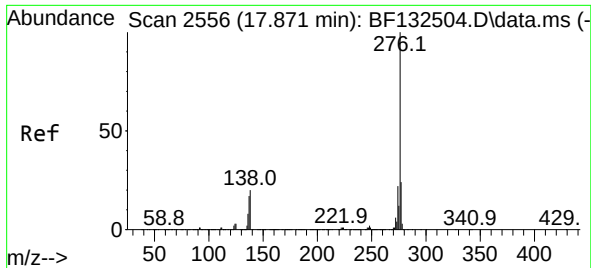
Reviewed By :Christian Giraldo 03/14/2023
Supervised By :Jagrut Upadhyay 03/14/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.472 ng m
RT: 17.268 min Scan# 2496
Delta R.T. -0.029 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:278 Resp: 68698
Ion Ratio Lower Upper
278 100
139 0.0 13.0 19.4#
279 27.3 19.0 28.4





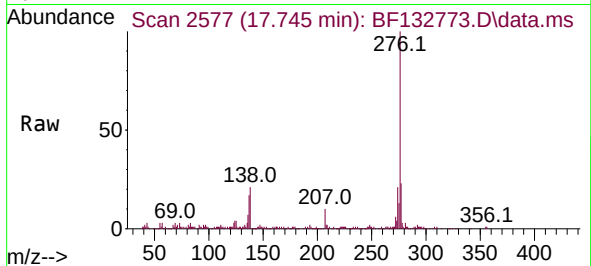
#92
 Benzo(g,h,i)perylene
 Concen: 6.087 ng
 RT: 17.745 min Scan# 2577
 Delta R.T. -0.023 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

TP-4DL



Tgt Ion: 276 Resp: 145322
 Ion Ratio Lower Upper
 276 100
 277 23.3 18.9 28.3
 138 20.9 16.2 24.4

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 03/14/2023
 Supervised By : Jagrut Upadhyay 03/14/2023

