

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030323\
 Data File : BF132638.D
 Acq On : 03 Mar 2023 20:14
 Operator : CG\JU
 Sample : 01776-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-6-030223

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/06/2023
 Supervised By : Jagrut Upadhyay 03/06/2023

Quant Time: Mar 04 02:21:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 24 23:17:30 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.998	152	164891	20.000	ng	0.00
21) Naphthalene-d8	8.286	136	509785	20.000	ng	0.00
39) Acenaphthene-d10	10.045	164	239190	20.000	ng	0.00
64) Phenanthrene-d10	11.545	188	502852	20.000	ng	0.00
76) Chrysene-d12	14.210	240	403635	20.000	ng	0.00
86) Perylene-d12	15.768	264	305473	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.622	112	827767	81.475	ng	0.00
7) Phenol-d6	6.622	99	968475	73.040	ng	-0.01
23) Nitrobenzene-d5	7.563	82	566000	52.676	ng	0.00
42) 2,4,6-Tribromophenol	10.839	330	204676	79.235	ng	0.00
45) 2-Fluorobiphenyl	9.357	172	859432	54.711	ng	-0.01
79) Terphenyl-d14	13.139	244	1191282	49.900	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.998	142	37013	2.081	ng	99
38) 1-Methylnaphthalene	9.098	142	67893	4.085	ng	98
49) Acenaphthylene	9.910	152	111976	4.902	ng	99
52) Acenaphthene	10.080	154	43925	3.028	ng	94
58) Fluorene	10.598	166	89251	5.518	ng	97
71) Phenanthrene	11.569	178	532087	20.425	ng	98
72) Anthracene	11.621	178	193351	7.208	ng	98
75) Fluoranthene	12.768	202	678353	23.820	ng	98
78) Pyrene	12.998	202	842852	22.968	ng	99
81) Benzo(a)anthracene	14.198	228	452964	14.998	ng	92
83) Chrysene	14.233	228	396442	14.038	ng	97
84) Bis(2-ethylhexyl)phtha...	14.168	149	36446	2.049	ng	# 89
87) Indeno(1,2,3-cd)pyrene	17.374	276	153171	7.652	ng	98
88) Benzo(b)fluoranthene	15.304	252	417715m	20.405	ng	
89) Benzo(k)fluoranthene	15.327	252	116796m	5.830	ng	
90) Benzo(a)pyrene	15.698	252	319945	16.699	ng	# 95
91) Dibenzo(a,h)anthracene	17.380	278	42965	2.635	ng	# 81
92) Benzo(g,h,i)perylene	17.862	276	154571	9.719	ng	97

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

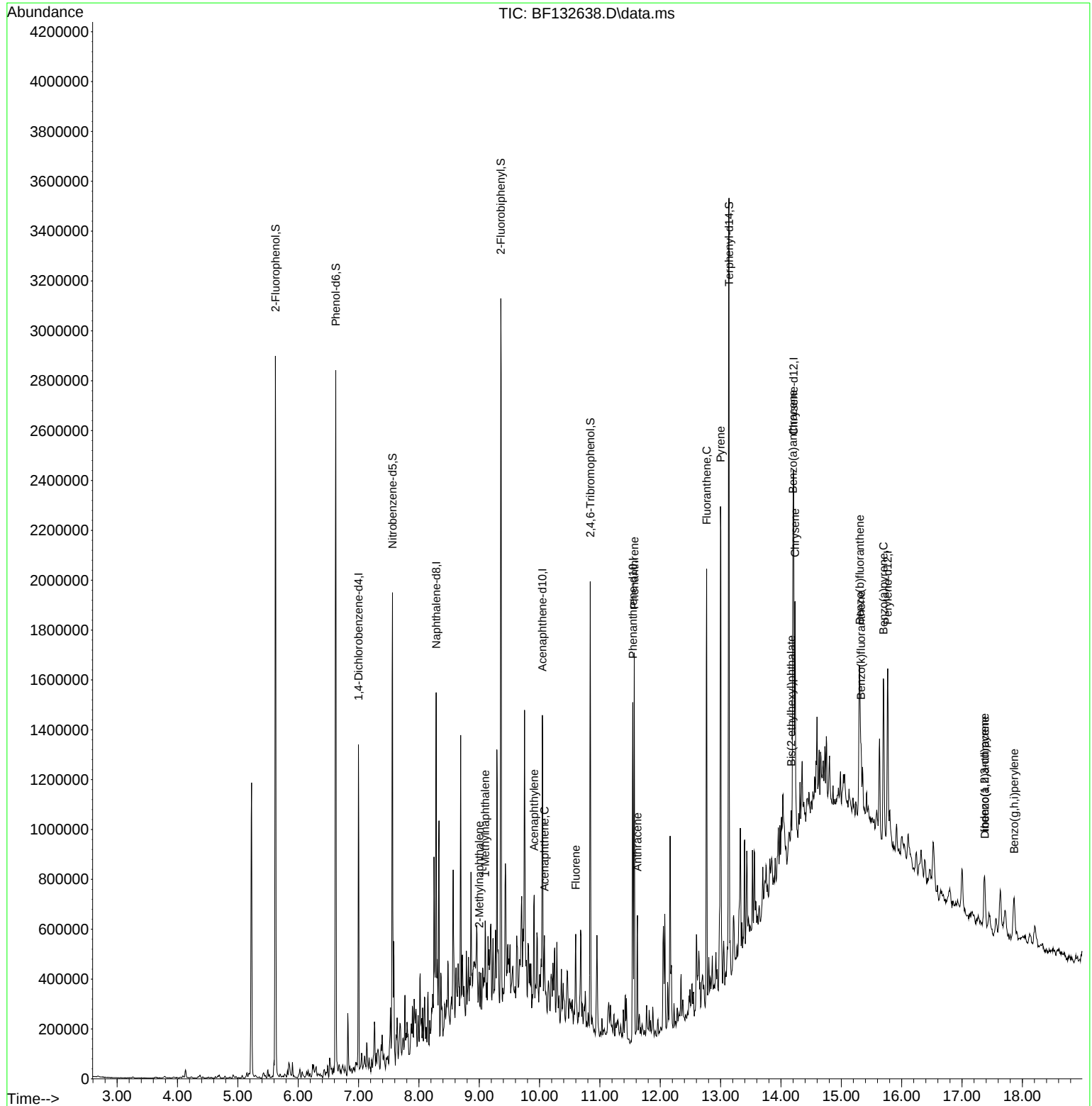
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030323\
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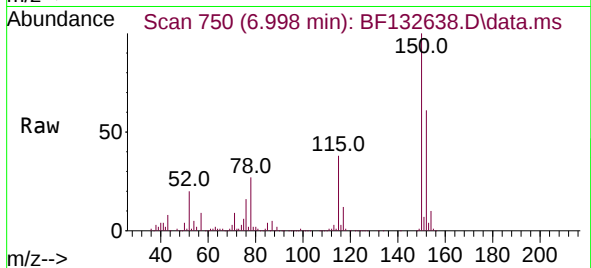
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.998 min Scan# 710
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

ClientSampleId :

TR-6-030223

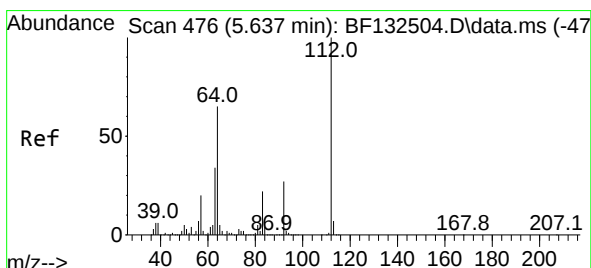
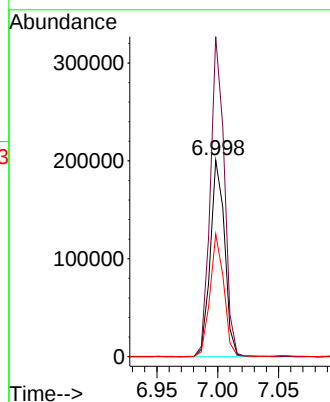
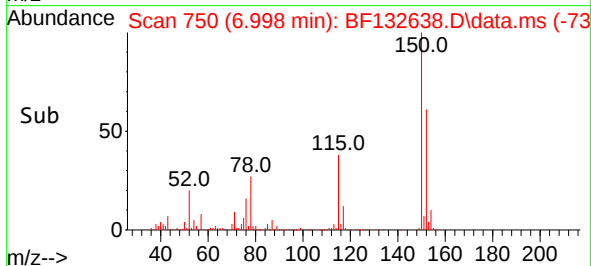


Tgt Ion:152 Resp: 164891
Ion Ratio Lower Upper
152 100
150 163.0 125.4 188.2
115 62.5 47.8 71.6

Manual Integrations

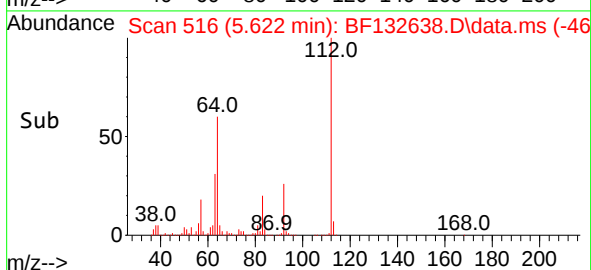
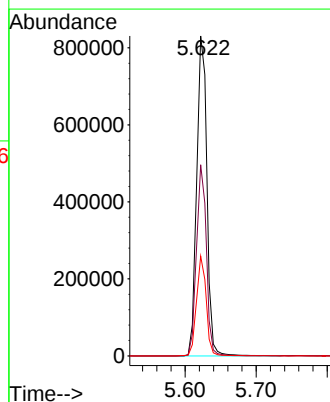
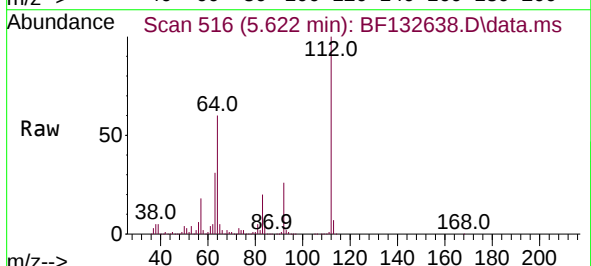
APPROVED

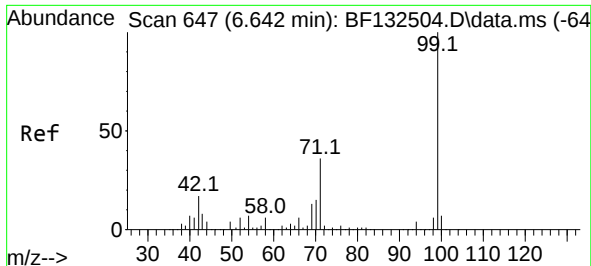
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#5
2-Fluorophenol
Concen: 81.475 ng
RT: 5.622 min Scan# 516
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

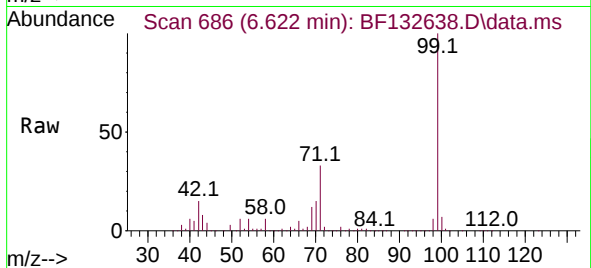
Tgt Ion:112 Resp: 827767
Ion Ratio Lower Upper
112 100
64 59.7 51.6 77.4
63 31.2 27.4 41.2





#7
Phenol-d6
Concen: 73.040 ng
RT: 6.622 min Scan# 686
Delta R.T. -0.015 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

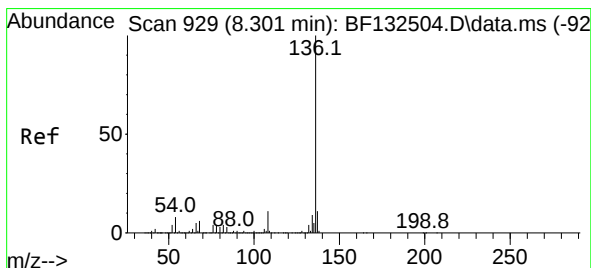
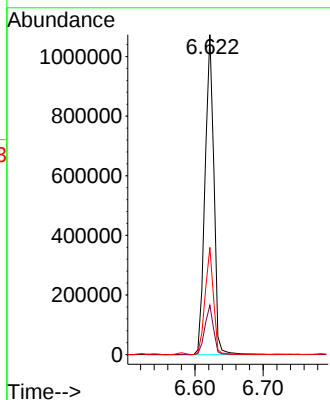
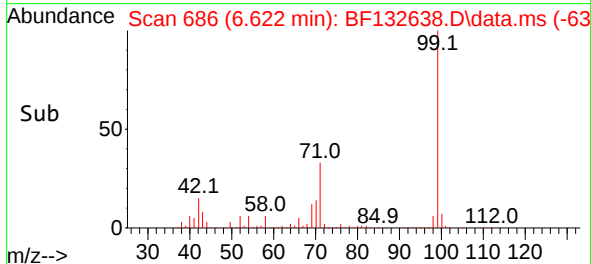
Instrument :
BNA_F
ClientSampleId :
TR-6-030223



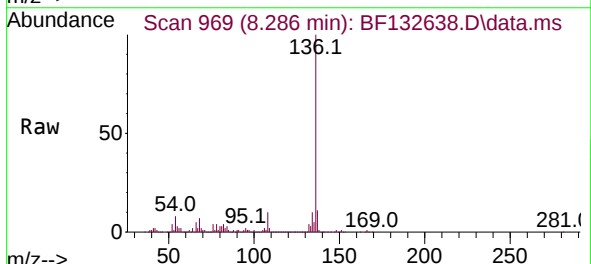
Tgt Ion: 99 Resp: 968475
Ion Ratio Lower Upper
99 100
42 15.4 13.9 20.9
71 33.5 28.5 42.7

Manual Integrations
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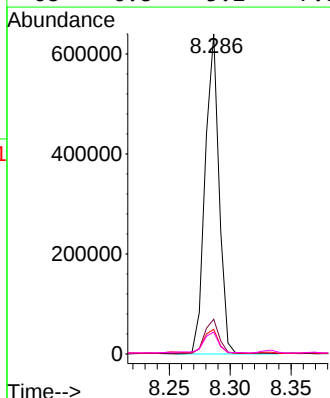
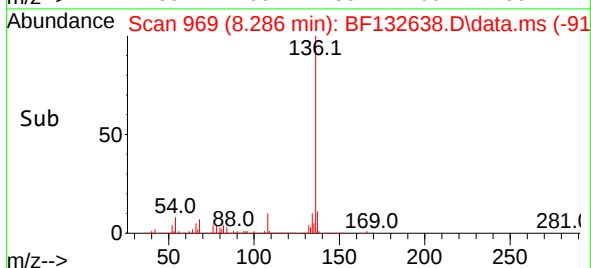
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023

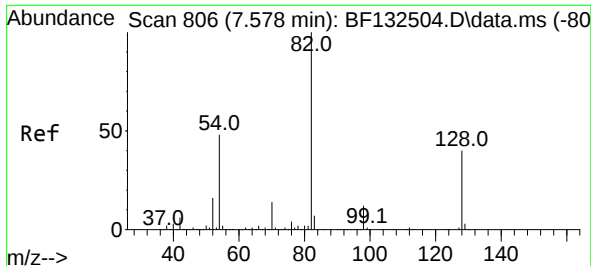


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.286 min Scan# 969
Delta R.T. -0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14



Tgt Ion:136 Resp: 509785
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.7 6.2 9.4
68 6.8 5.2 7.8





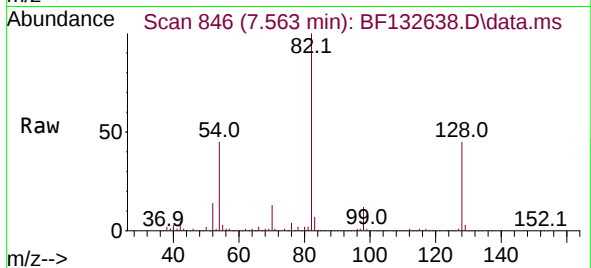
#23
Nitrobenzene-d5
Concen: 52.676 ng
RT: 7.563 min Scan# 84
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

ClientSampleId :

TR-6-030223

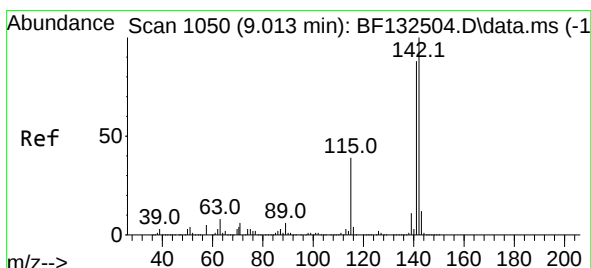
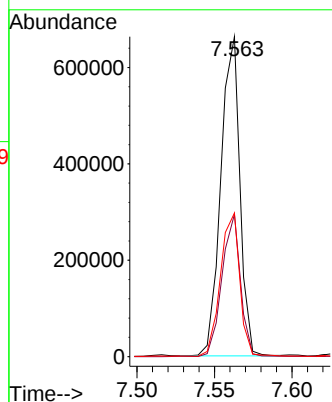
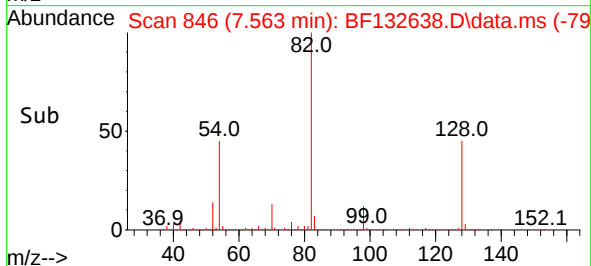


Tgt Ion: 82 Resp: 566000
Ion Ratio Lower Upper
82 100
128 44.5 32.2 48.2
54 44.9 38.4 57.6

Manual Integrations

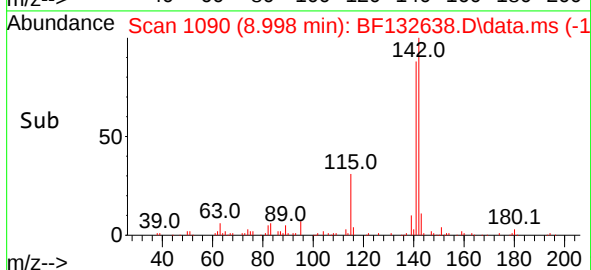
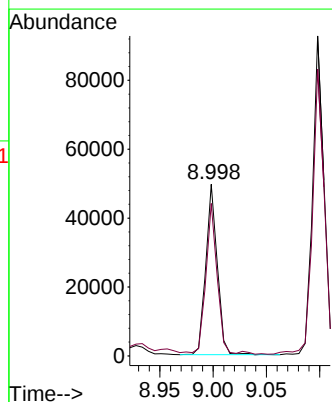
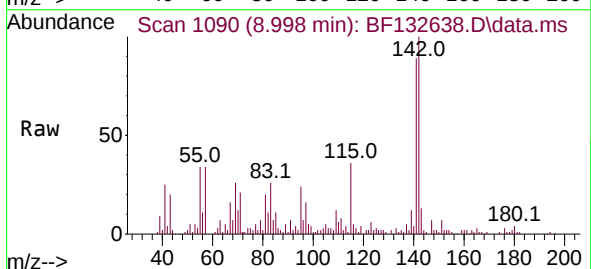
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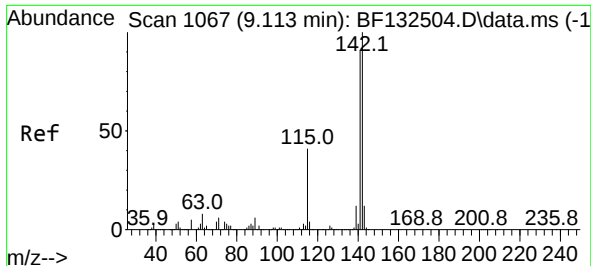
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#37
2-Methylnaphthalene
Concen: 2.081 ng
RT: 8.998 min Scan# 1090
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:142 Resp: 37013
Ion Ratio Lower Upper
142 100
141 88.8 70.2 105.2





#38
1-Methylnaphthalene
Concen: 4.085 ng
RT: 9.098 min Scan# 1107
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

ClientSampleId :

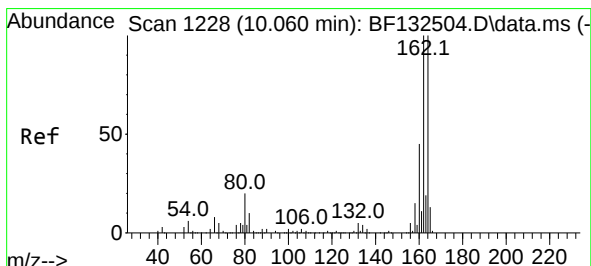
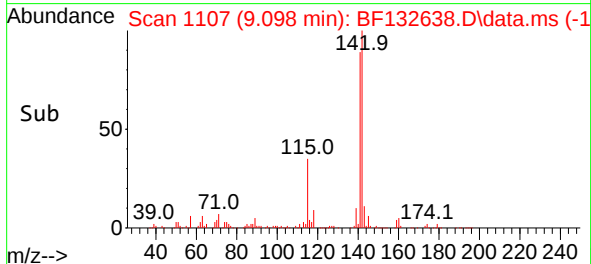
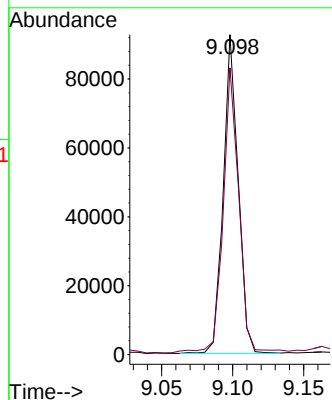
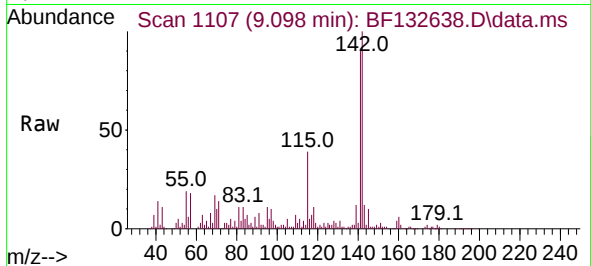
TR-6-030223

Tgt Ion:142 Resp: 67893
Ion Ratio Lower Upper
142 100
141 89.6 73.0 109.6

Manual Integrations

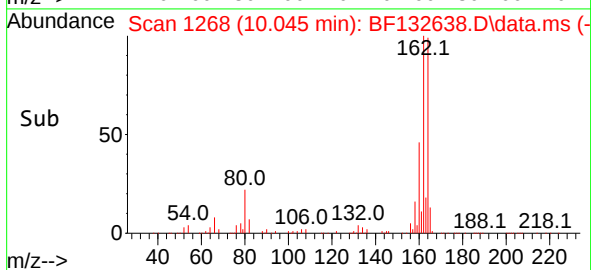
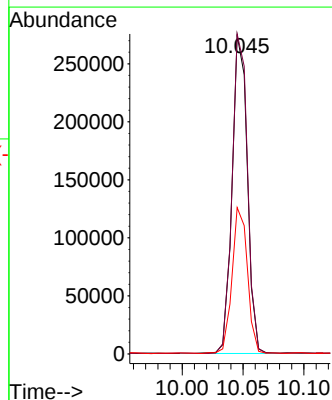
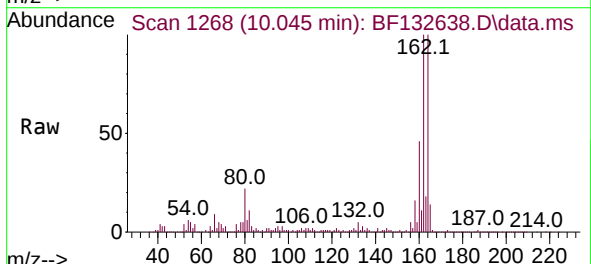
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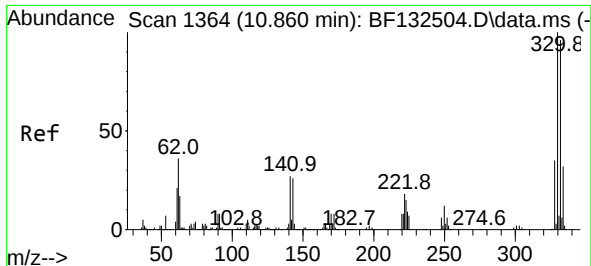
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.045 min Scan# 1268
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:164 Resp: 239190
Ion Ratio Lower Upper
164 100
162 100.4 79.8 119.8
160 45.9 35.8 53.6





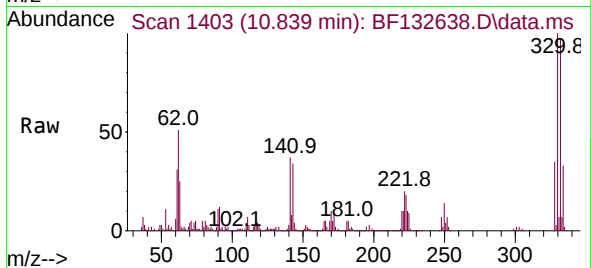
#42
2,4,6-Tribromophenol
Concen: 79.235 ng
RT: 10.839 min Scan# 1411
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

ClientSampleId :

TR-6-030223

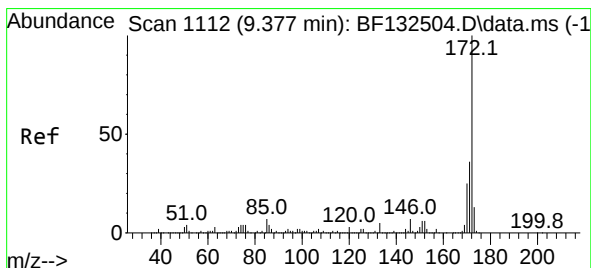
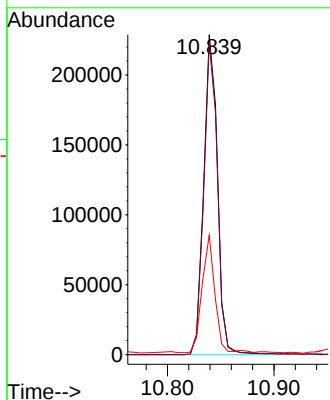
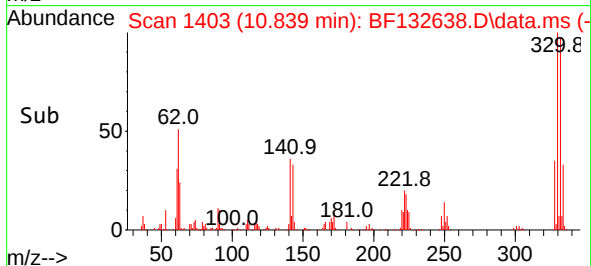


Tgt Ion:330 Resp: 204676
Ion Ratio Lower Upper
330 100
332 97.0 76.2 114.4
141 33.5 28.4 42.6

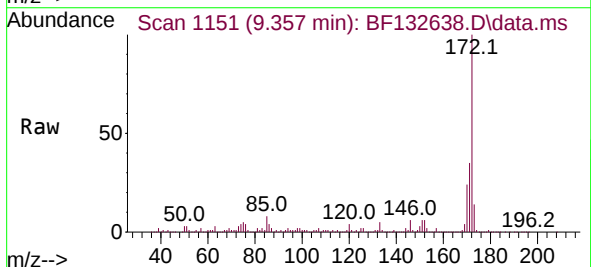
Manual Integrations

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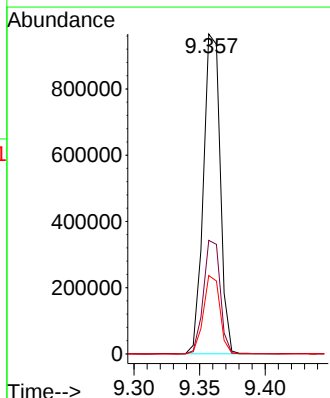
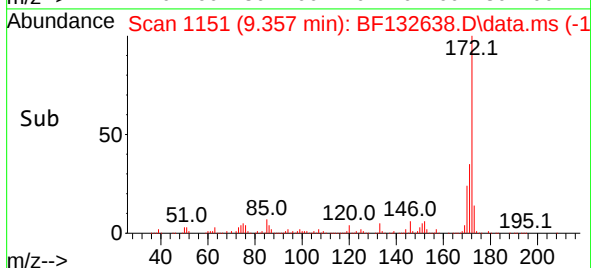
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023

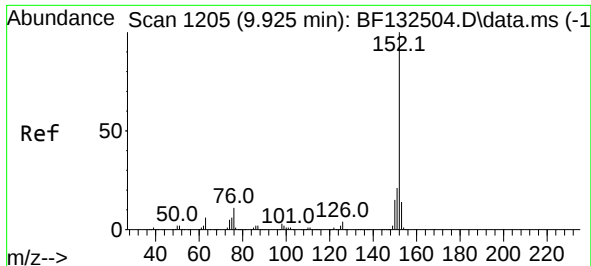


#45
2-Fluorobiphenyl
Concen: 54.711 ng
RT: 9.357 min Scan# 1151
Delta R.T. -0.015 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14



Tgt Ion:172 Resp: 859432
Ion Ratio Lower Upper
172 100
171 35.5 28.8 43.2
170 24.5 19.7 29.5





#49
Acenaphthylene
Concen: 4.902 ng
RT: 9.910 min Scan# 1205
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

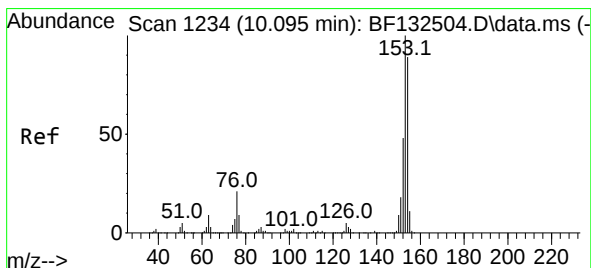
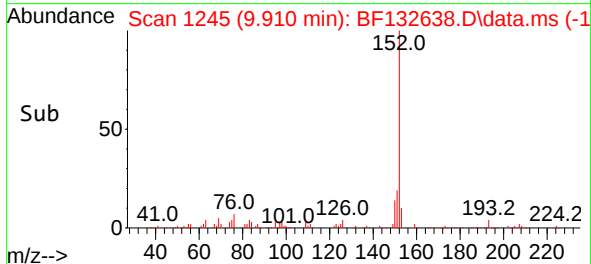
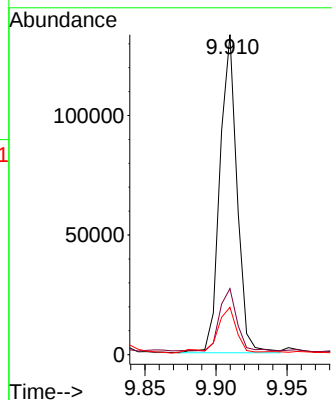
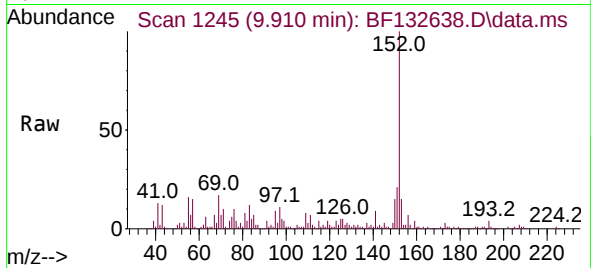
ClientSampleId :

TR-6-030223

Tgt Ion:152 Resp: 111976
Ion Ratio Lower Upper
152 100
151 20.7 16.4 24.6
153 14.8 11.0 16.6

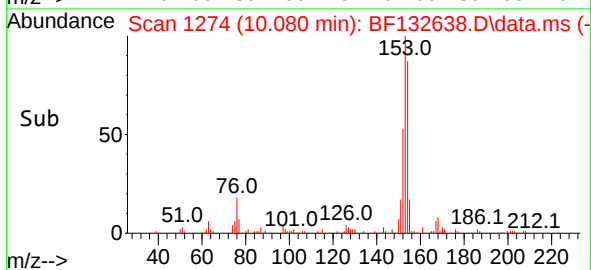
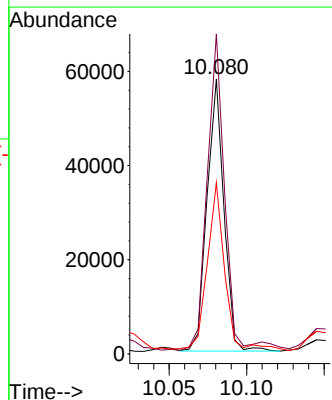
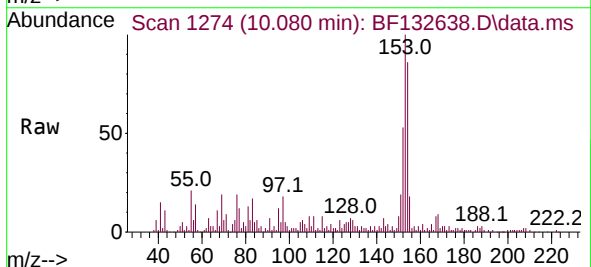
Manual Integrations
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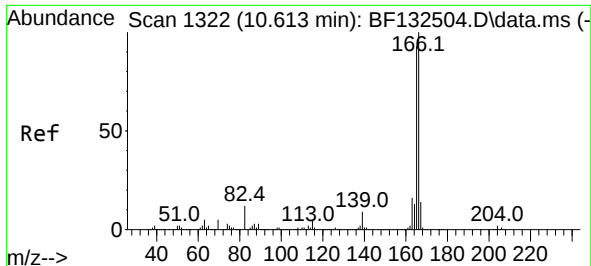
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#52
Acenaphthene
Concen: 3.028 ng
RT: 10.080 min Scan# 1274
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:154 Resp: 43925
Ion Ratio Lower Upper
154 100
153 116.4 89.8 134.8
152 62.2 43.3 64.9





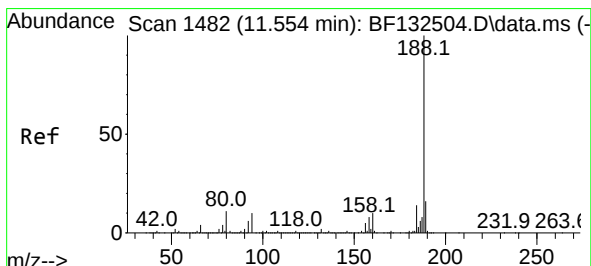
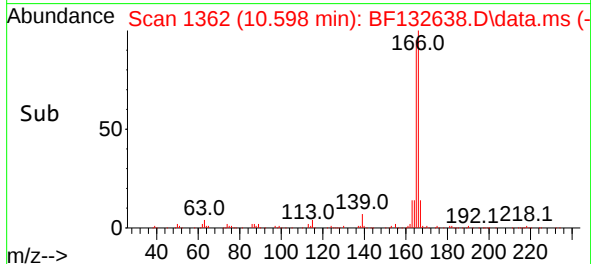
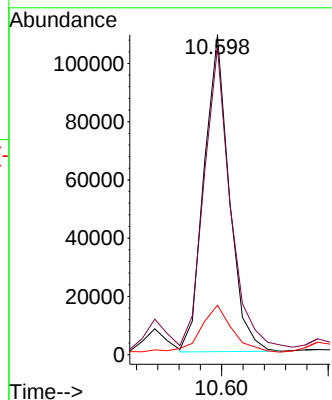
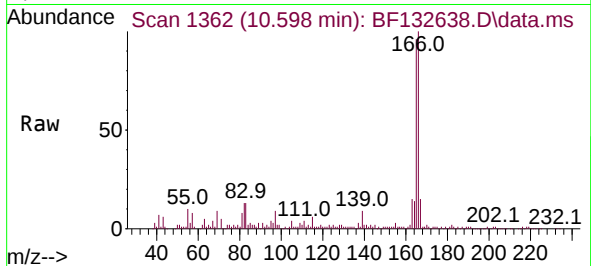
#58
Fluorene
Concen: 5.518 ng
RT: 10.598 min Scan# 1322
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :
BNA_F
ClientSampleId :
TR-6-030223

Tgt Ion:166 Resp: 8925
Ion Ratio Lower Upper
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165 96.1 74.2 111.4
167 15.4 11.1 16.7

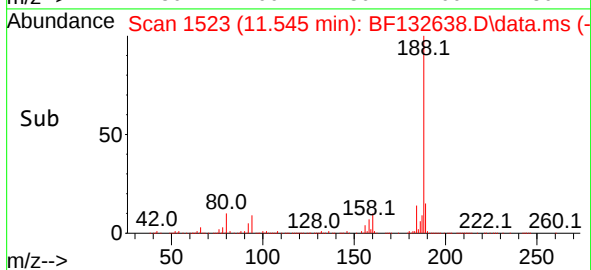
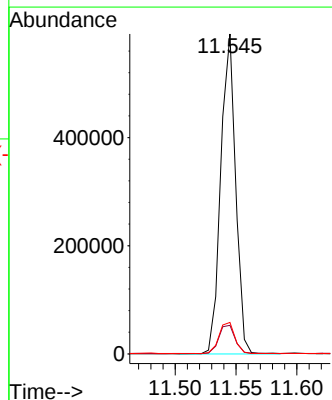
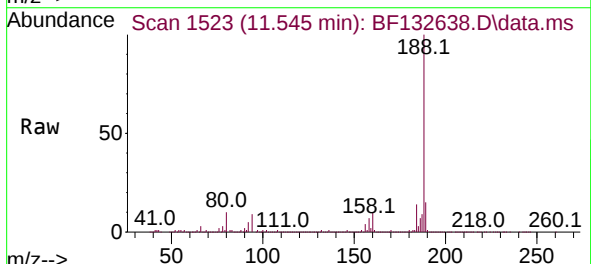
Manual Integrations
APPROVED

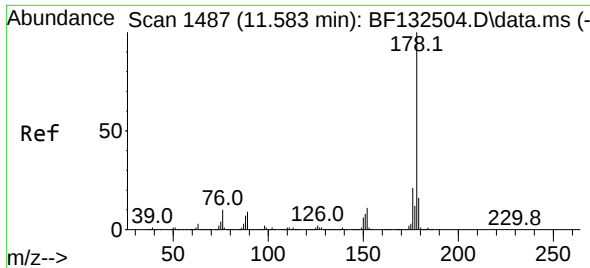
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.545 min Scan# 1523
Delta R.T. -0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:188 Resp: 502852
Ion Ratio Lower Upper
188 100
94 8.9 8.3 12.5
80 9.8 8.7 13.1





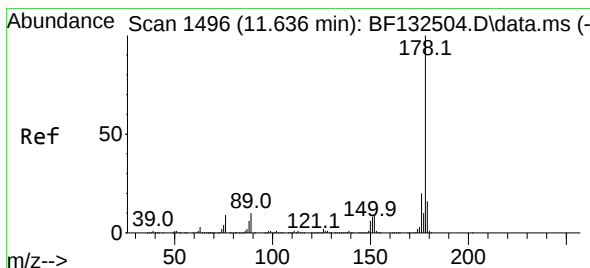
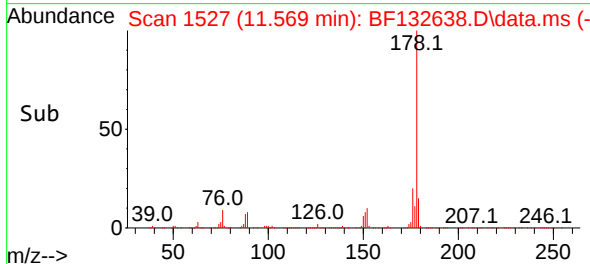
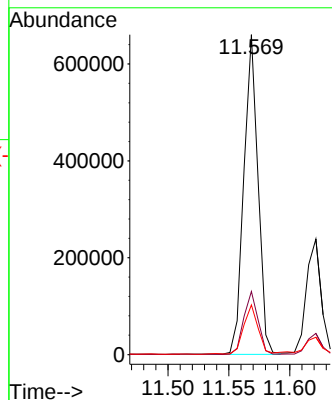
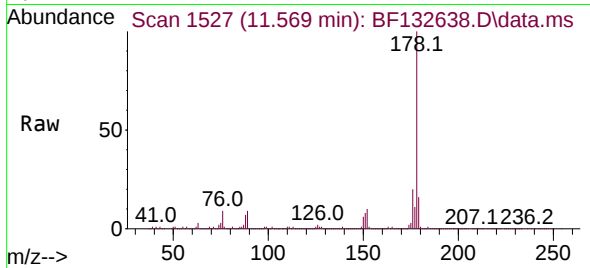
#71
Phenanthrene
Concen: 20.425 ng
RT: 11.569 min Scan# 11536
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :
BNA_F
ClientSampleId :
TR-6-030223

Tgt Ion:178 Resp: 53208
Ion Ratio Lower Upper
178 100
176 19.7 16.5 24.7
179 15.5 13.0 19.6

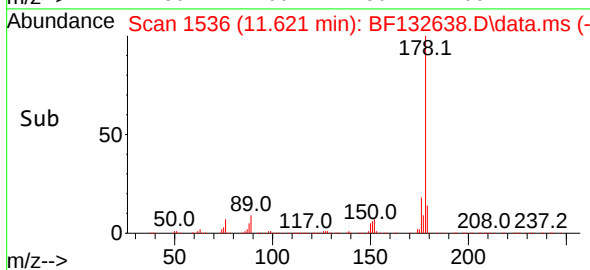
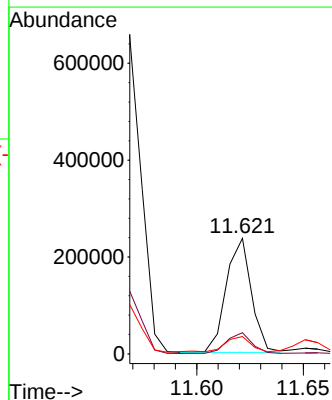
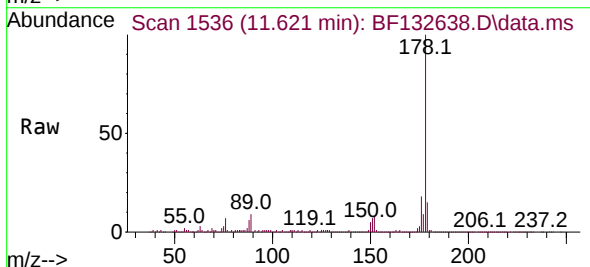
Manual Integrations
APPROVED

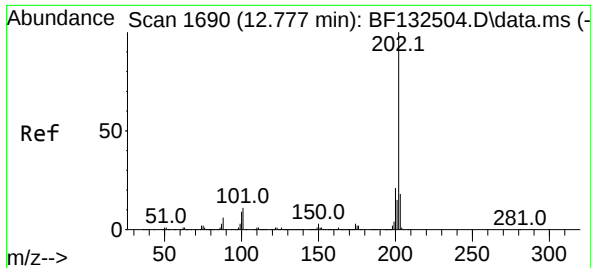
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#72
Anthracene
Concen: 7.208 ng
RT: 11.621 min Scan# 1536
Delta R.T. -0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:178 Resp: 193351
Ion Ratio Lower Upper
178 100
176 18.3 15.6 23.4
179 15.1 12.5 18.7





#75
Fluoranthene
Concen: 23.820 ng
RT: 12.768 min Scan# 1731
Delta R.T. -0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

ClientSampleId :

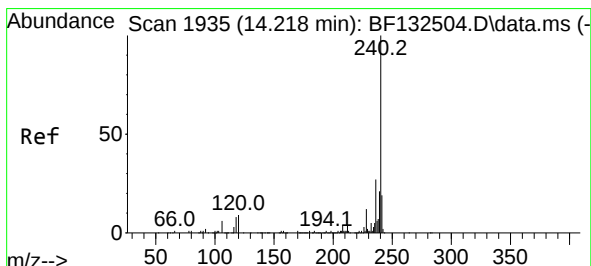
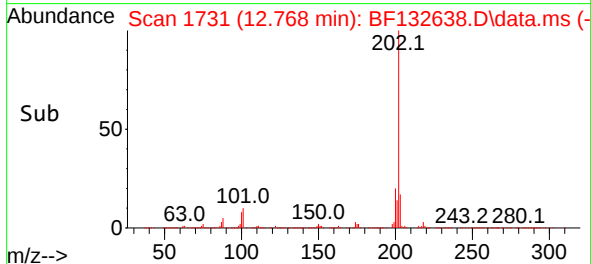
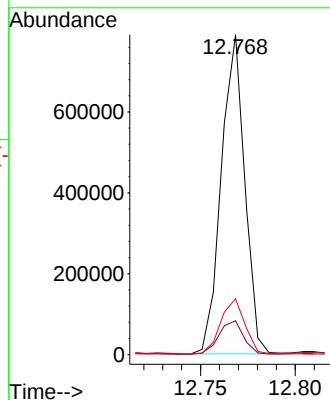
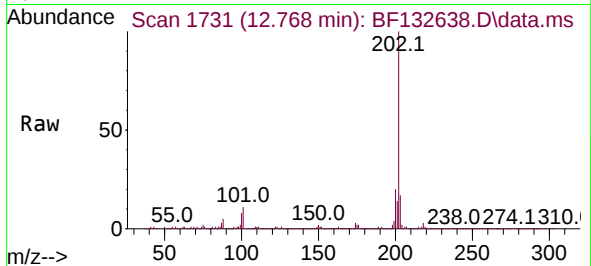
TR-6-030223

Tgt Ion:202 Resp: 67835
Ion Ratio Lower Upper
202 100
101 10.6 0.0 31.4
203 17.4 0.0 38.0

Manual Integrations

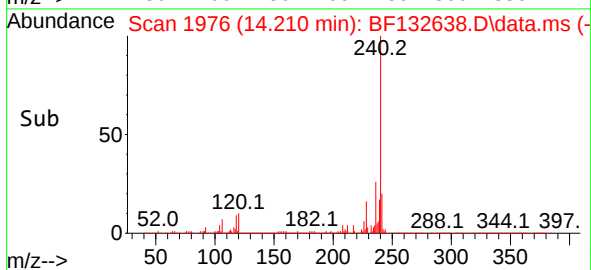
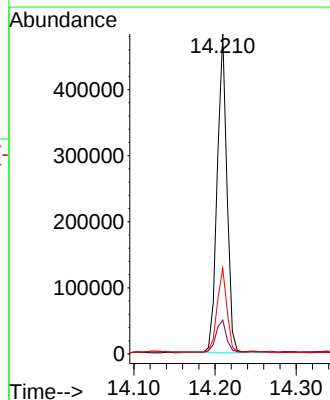
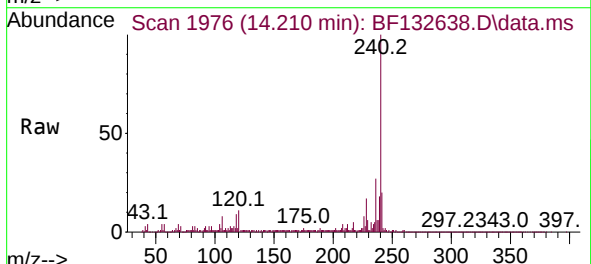
APPROVED

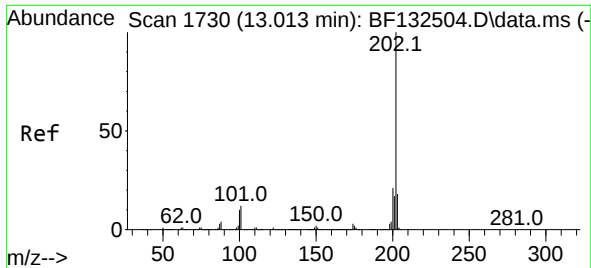
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.210 min Scan# 1976
Delta R.T. 0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

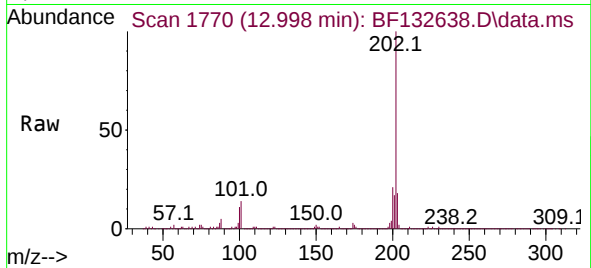
Tgt Ion:240 Resp: 403635
Ion Ratio Lower Upper
240 100
120 10.6 7.2 10.8
236 26.8 21.8 32.6





#78
Pyrene
Concen: 22.968 ng
RT: 12.998 min Scan# 1794
Delta R.T. -0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

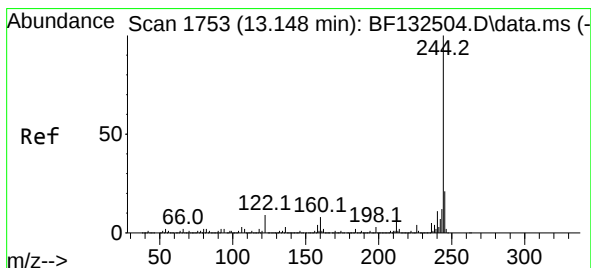
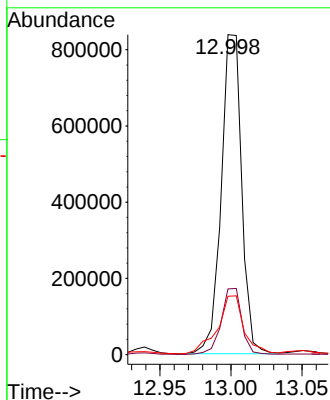
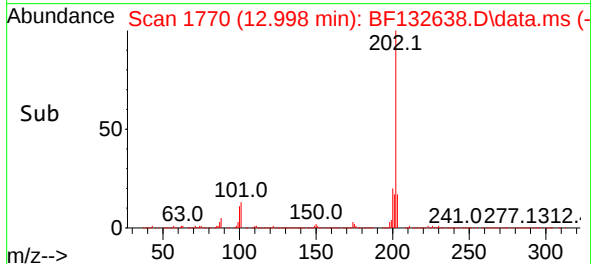
Instrument :
BNA_F
ClientSampleId :
TR-6-030223



Tgt Ion:202 Resp: 842852
Ion Ratio Lower Upper
202 100
200 20.6 17.1 25.7
203 18.2 14.6 21.8

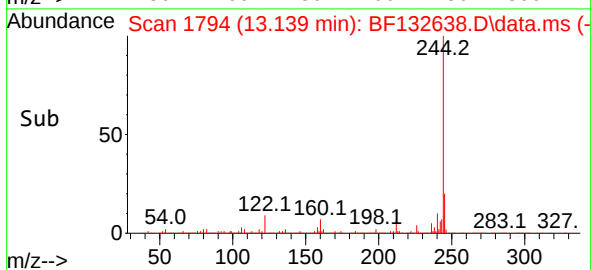
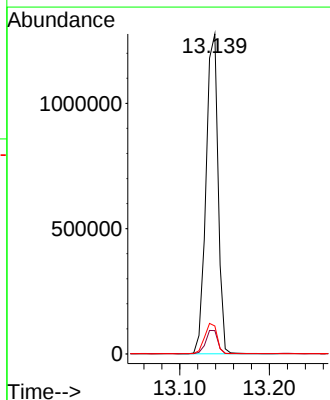
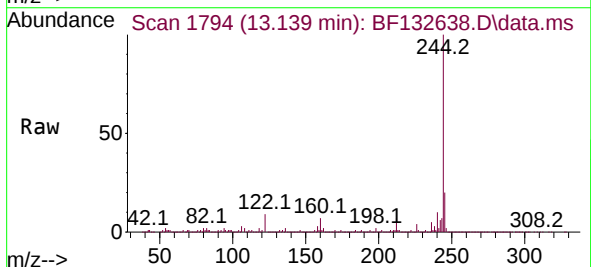
Manual Integrations
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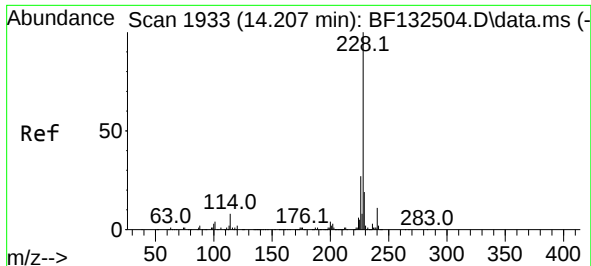
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#79
Terphenyl-d14
Concen: 49.900 ng
RT: 13.139 min Scan# 1794
Delta R.T. -0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:244 Resp: 1191282
Ion Ratio Lower Upper
244 100
212 7.3 6.5 9.7
122 8.7 7.5 11.3





#81
Benzo(a)anthracene
Concen: 14.998 ng
RT: 14.198 min Scan# 1933
Delta R.T. 0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

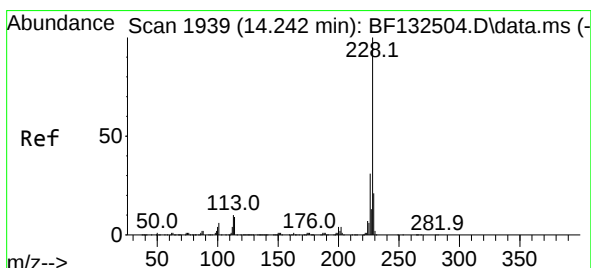
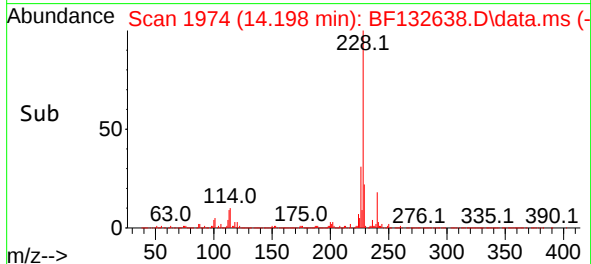
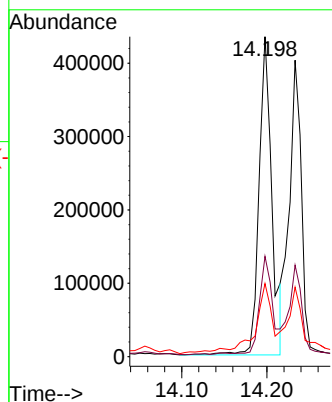
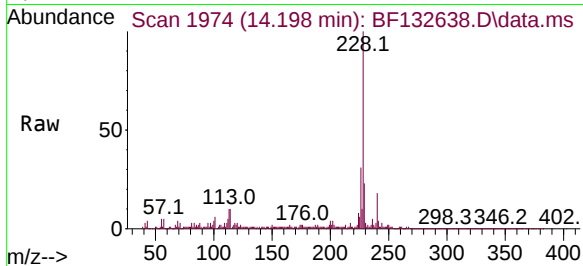
ClientSampleId :

TR-6-030223

Tgt Ion:228 Resp: 452964
Ion Ratio Lower Upper
228 100
226 31.3 21.7 32.5
229 22.8 15.4 23.2

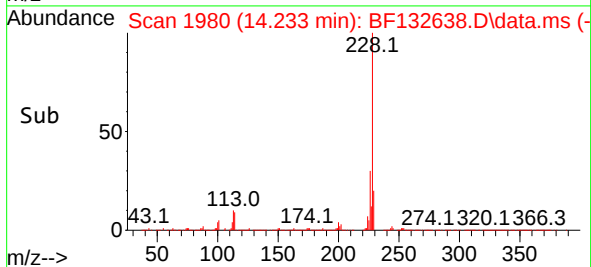
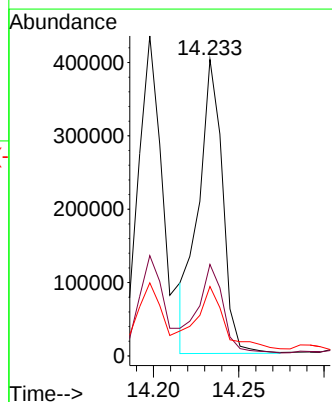
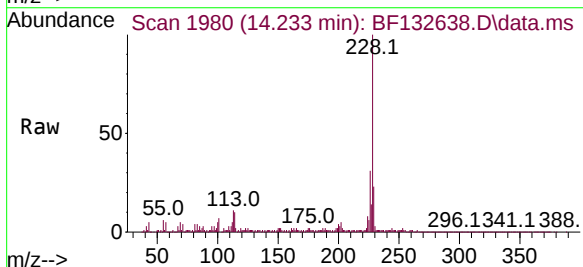
Manual Integrations
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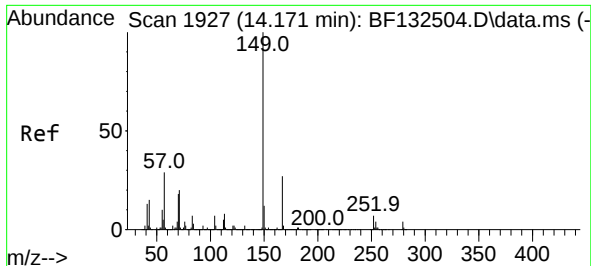
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#83
Chrysene
Concen: 14.038 ng
RT: 14.233 min Scan# 1980
Delta R.T. -0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:228 Resp: 396442
Ion Ratio Lower Upper
228 100
226 30.9 25.0 37.6
229 23.4 16.4 24.6





#84
Bis(2-ethylhexyl)phthalate
Concen: 2.049 ng
RT: 14.168 min Scan# 1927
Delta R.T. 0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

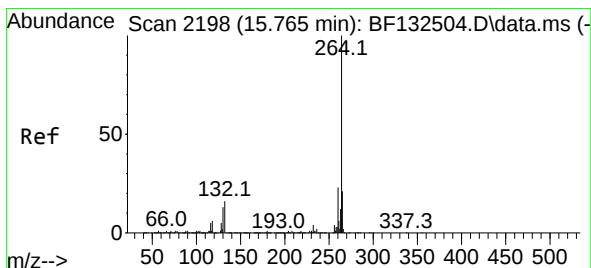
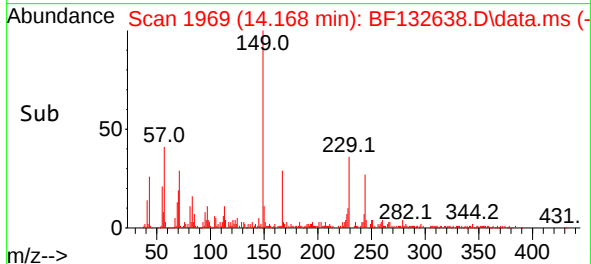
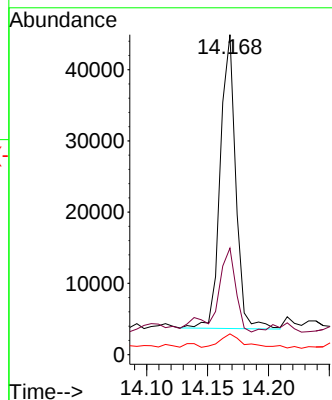
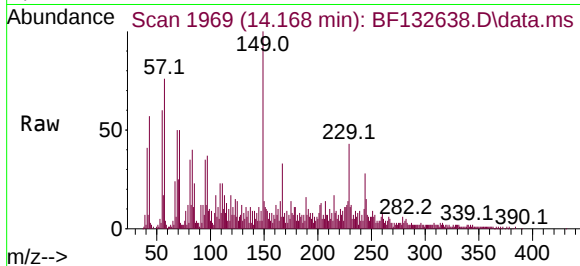
ClientSampleId :

TR-6-030223

Tgt Ion:149 Resp: 36446
Ion Ratio Lower Upper
149 100
167 33.3 21.8 32.6
279 6.5 3.0 4.6

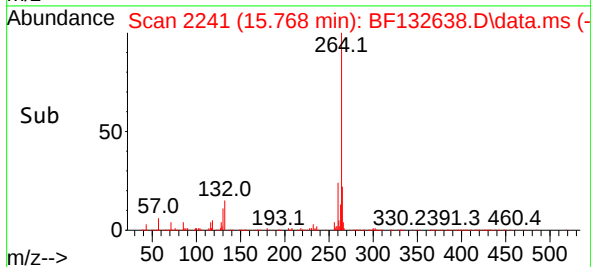
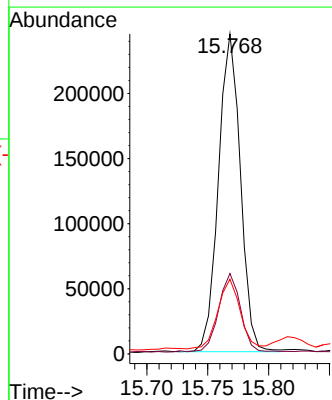
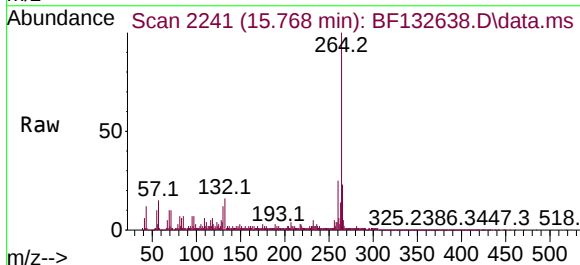
Manual Integrations
APPROVED

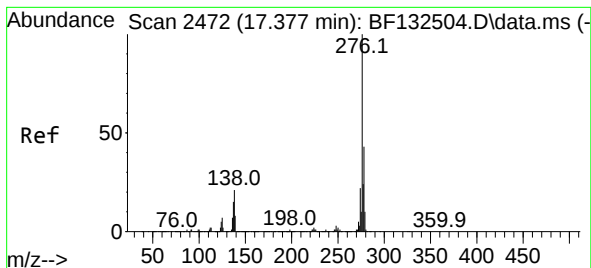
Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.768 min Scan# 2241
Delta R.T. 0.015 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:264 Resp: 305473
Ion Ratio Lower Upper
264 100
260 25.1 18.8 28.2
265 23.4 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.652 ng

RT: 17.374 min Scan# 2162

Delta R.T. 0.015 min

Lab File: BF132638.D

Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

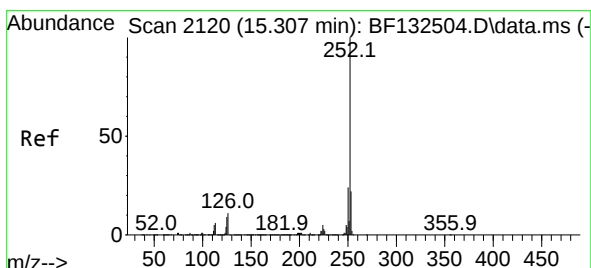
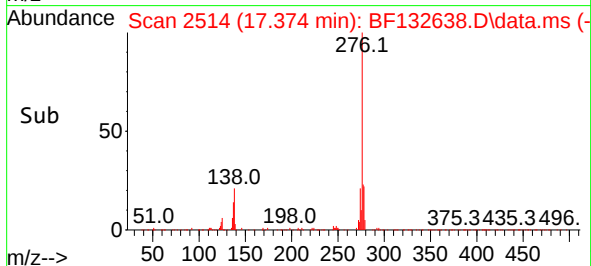
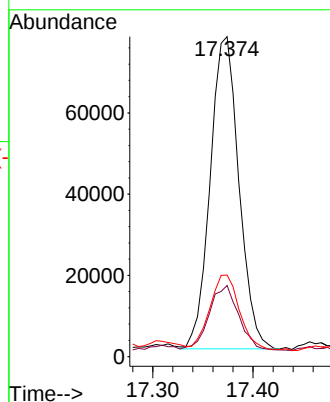
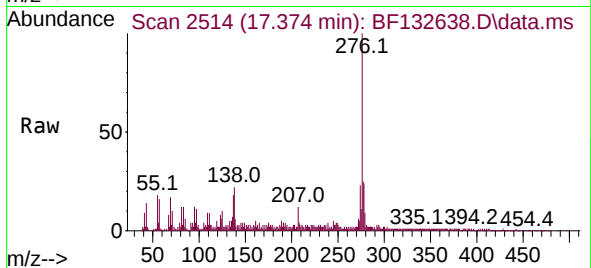
ClientSampleId :

TR-6-030223

Tgt Ion:276 Resp: 15317
 Ion Ratio Lower Upper
 276 100
 138 21.8 19.0 28.4
 277 25.5 20.0 30.0

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 03/06/2023
 Supervised By :Jagrut Upadhyay 03/06/2023



#88

Benzo(b)fluoranthene

Concen: 20.405 ng m

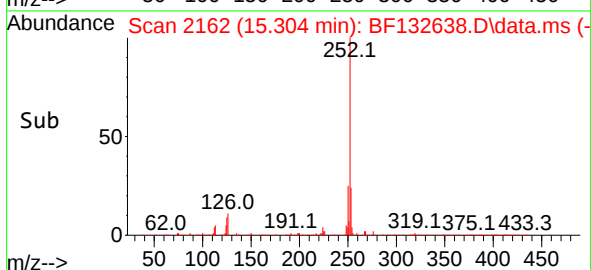
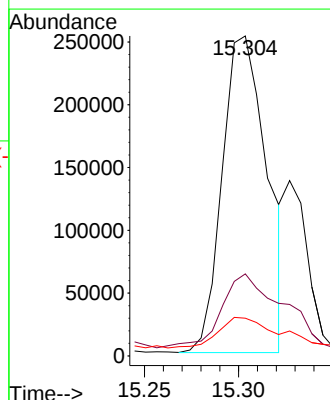
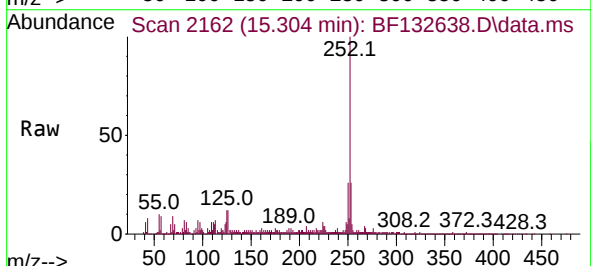
RT: 15.304 min Scan# 2162

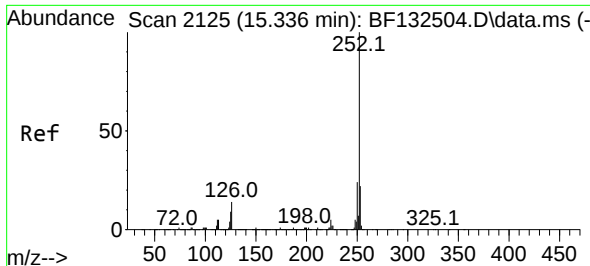
Delta R.T. 0.009 min

Lab File: BF132638.D

Acq: 03 Mar 2023 20:14

Tgt Ion:252 Resp: 417715
 Ion Ratio Lower Upper
 252 100
 253 25.6 17.4 26.0
 125 11.8 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 5.830 ng m

RT: 15.327 min Scan# 2125

Delta R.T. 0.003 min

Lab File: BF132638.D

Acq: 03 Mar 2023 20:14

Instrument :

BNA_F

ClientSampleId :

TR-6-030223

Tgt Ion:252 Resp: 116796

Ion Ratio Lower Upper

252 100

253 29.3 17.5 26.3

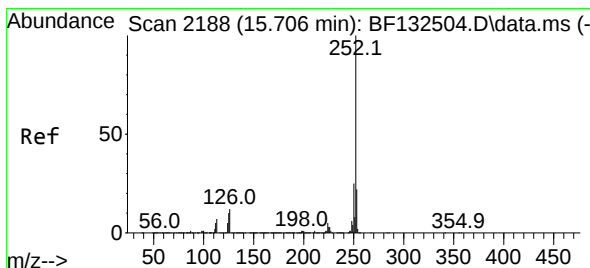
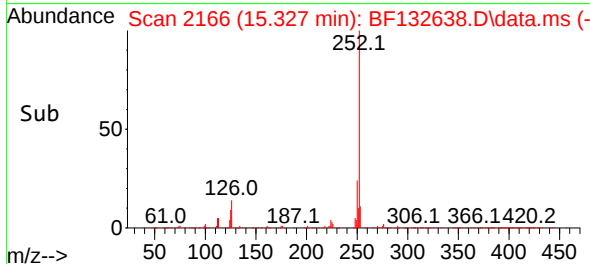
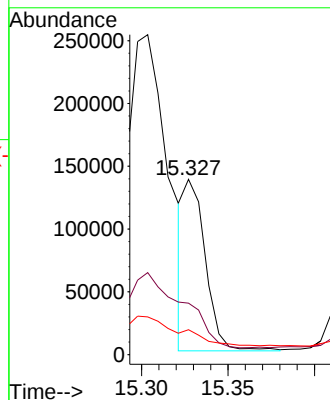
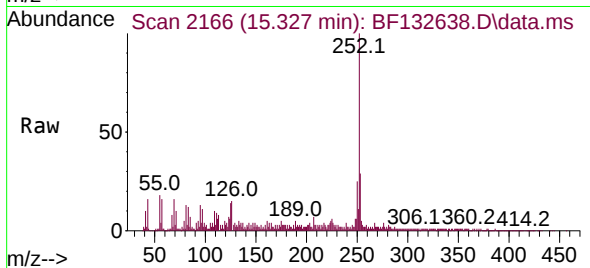
125 14.2 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/06/2023

Supervised By :Jagrut Upadhyay 03/06/2023



#90

Benzo(a)pyrene

Concen: 16.699 ng

RT: 15.698 min Scan# 2229

Delta R.T. 0.009 min

Lab File: BF132638.D

Acq: 03 Mar 2023 20:14

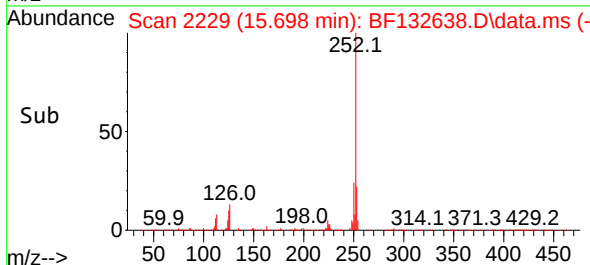
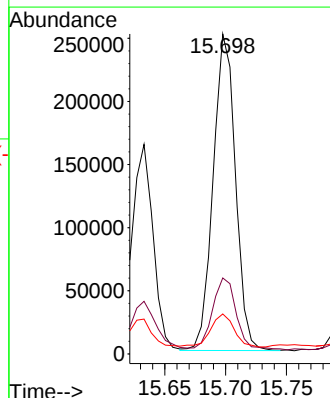
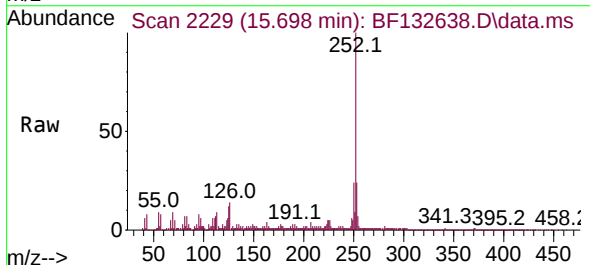
Tgt Ion:252 Resp: 319945

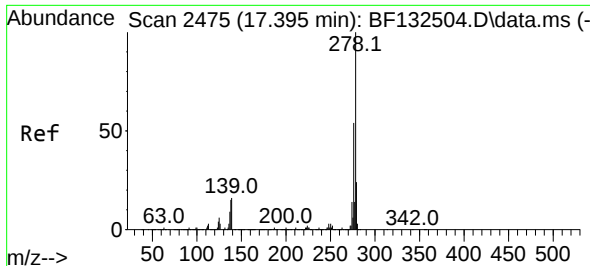
Ion Ratio Lower Upper

252 100

253 23.7 17.2 25.8

125 12.5 8.0 12.0





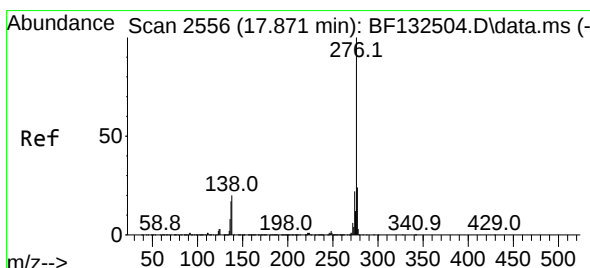
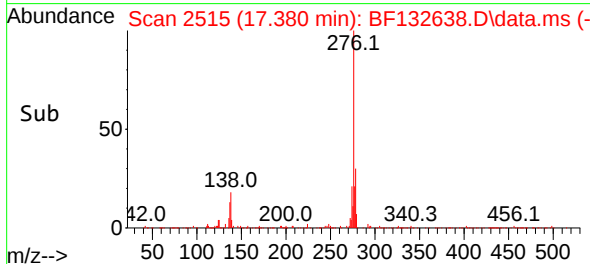
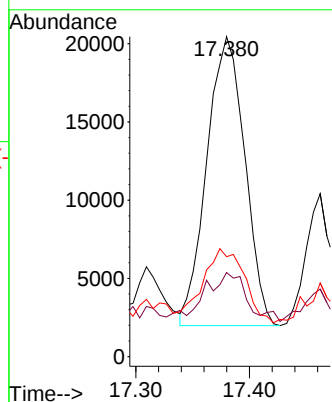
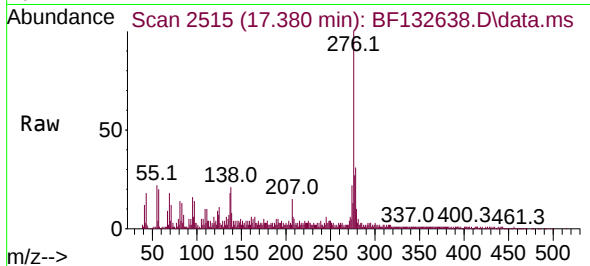
#91
Dibenzo(a,h)anthracene
Concen: 2.635 ng
RT: 17.380 min Scan# 2475
Delta R.T. 0.003 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Instrument :
BNA_F
ClientSampleId :
TR-6-030223

Tgt Ion:278 Resp: 42965
Ion Ratio Lower Upper
278 100
139 26.3 13.0 19.4
279 31.2 19.0 28.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/06/2023
Supervised By :Jagrut Upadhyay 03/06/2023



#92
Benzo(g,h,i)perylene
Concen: 9.719 ng
RT: 17.862 min Scan# 2597
Delta R.T. 0.009 min
Lab File: BF132638.D
Acq: 03 Mar 2023 20:14

Tgt Ion:276 Resp: 154571
Ion Ratio Lower Upper
276 100
277 26.4 18.9 28.3
138 20.6 16.2 24.4

