

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030123\
 Data File : BF132598.D
 Acq On : 01 Mar 2023 18:51
 Operator : CG\JU
 Sample : 01722-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-022723

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/02/2023
 Supervised By :Jagrut Upadhyay 03/02/2023

Quant Time: Mar 02 03:19:42 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	7.004	152	191669	20.000	ng	0.00
21) Naphthalene-d8	8.287	136	623083	20.000	ng	0.00
39) Acenaphthene-d10	10.051	164	272508	20.000	ng	0.00
64) Phenanthrene-d10	11.545	188	508406	20.000	ng	0.00
76) Chrysene-d12	14.204	240	438220	20.000	ng	0.00
86) Perylene-d12	15.757	264	354088	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.622	112	391335	33.137	ng	0.00
7) Phenol-d6	6.622	99	469744	30.478	ng	-0.01
23) Nitrobenzene-d5	7.557	82	272060	20.716	ng	-0.01
42) 2,4,6-Tribromophenol	10.839	330	82140	27.911	ng	0.00
45) 2-Fluorobiphenyl	9.363	172	431431	24.107	ng	0.00
79) Terphenyl-d14	13.133	244	519928	20.060	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.310	128	354137	11.102	ng	98
37) 2-Methylnaphthalene	8.998	142	178159	8.196	ng	99
38) 1-Methylnaphthalene	9.098	142	126529	6.228	ng	99
49) Acenaphthylene	9.910	152	73359	2.819	ng	97
52) Acenaphthene	10.081	154	53514	3.238	ng	95
55) Dibenzofuran	10.251	168	80271	3.332	ng	# 93
58) Fluorene	10.598	166	141412	7.674	ng	97
71) Phenanthrene	11.569	178	811838	30.824	ng	98
72) Anthracene	11.622	178	211069	7.782	ng	99
73) Carbazole	11.775	167	68576	2.804	ng	100
75) Fluoranthene	12.769	202	880201	30.570	ng	99
78) Pyrene	12.998	202	939137	23.572	ng	99
81) Benzo(a)anthracene	14.192	228	517019	15.768	ng	95
83) Chrysene	14.227	228	448416	14.625	ng	97
87) Indeno(1,2,3-cd)pyrene	17.357	276	155724	6.712	ng	99
88) Benzo(b)fluoranthene	15.292	252	436292m	18.386	ng	
89) Benzo(k)fluoranthene	15.321	252	162580m	7.001	ng	
90) Benzo(a)pyrene	15.686	252	308653	13.898	ng	96
91) Dibenzo(a,h)anthracene	17.362	278	41190	2.179	ng	# 85
92) Benzo(g,h,i)perylene	17.845	276	152569	8.516	ng	96

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

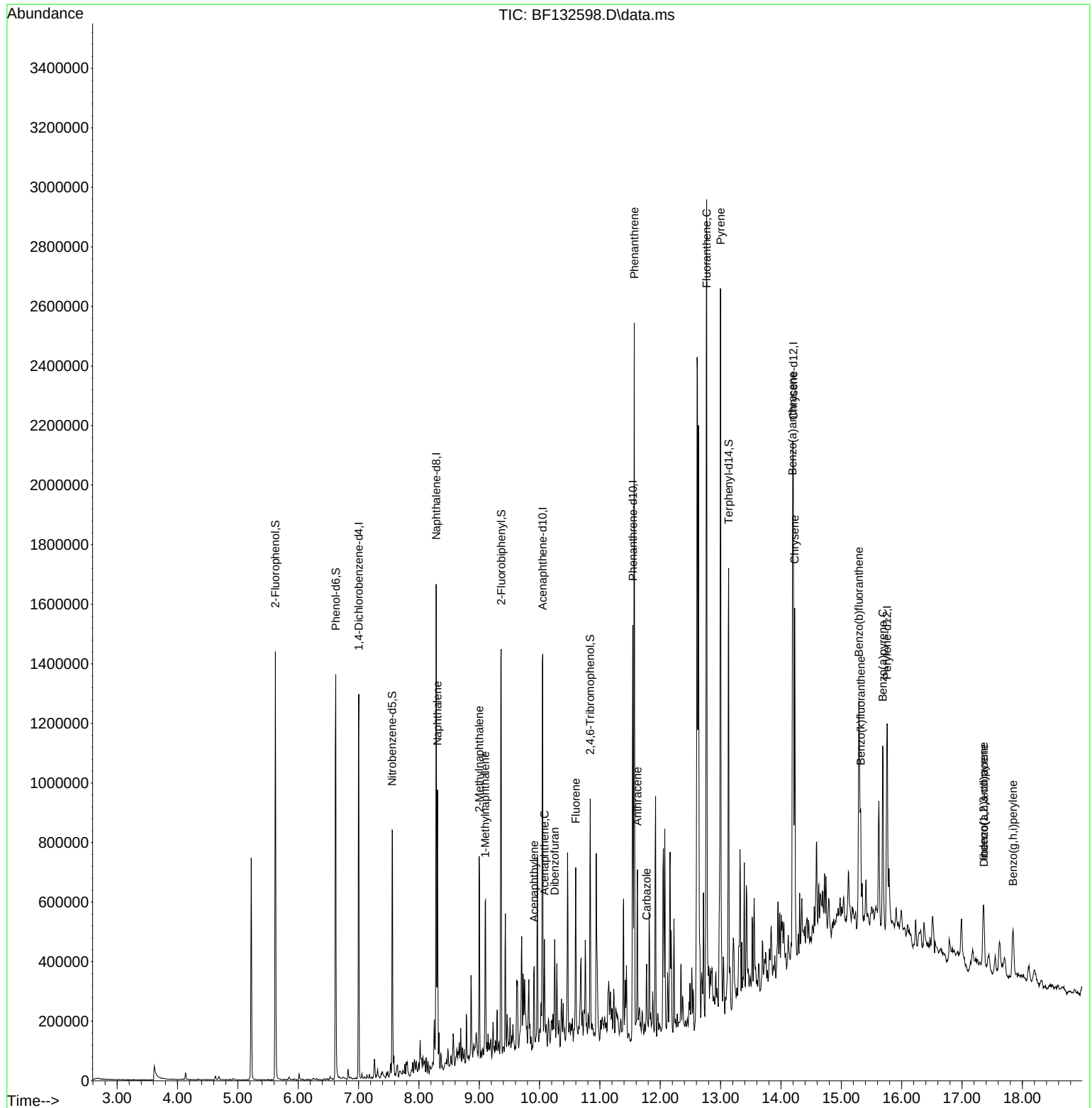
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030123\
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ALS Vial : 16 Sample Multiplier: 1

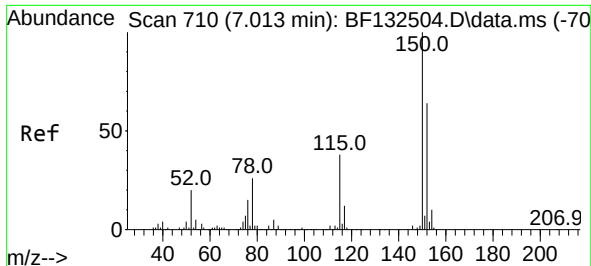
Instrument :
BNA_F
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HD-01-022723

Quant Time: Mar 02 03:19:42 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 24 23:17:30 2023
Response via : Initial Calibration

Manual Integrations
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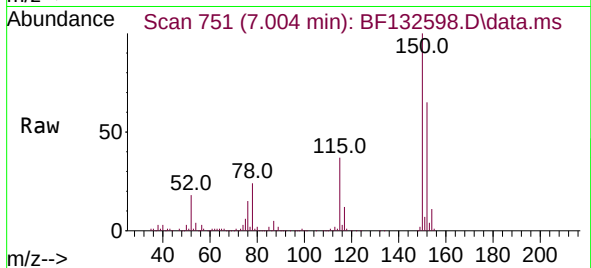
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.004 min Scan# 710
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

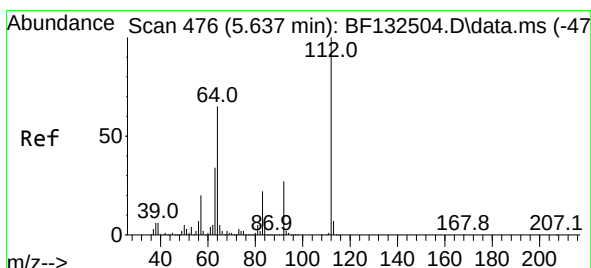
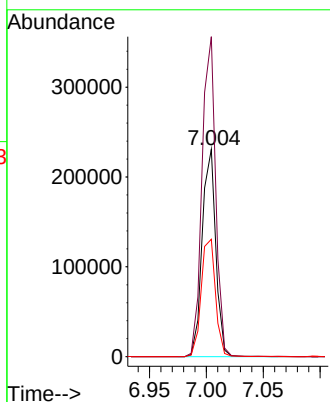
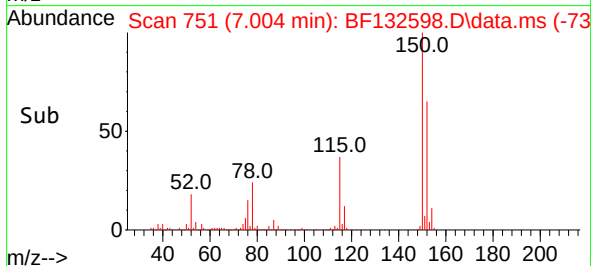
Instrument :
BNA_F
ClientSampleId :
HD-01-022723



Tgt Ion:152 Resp: 191669
Ion Ratio Lower Upper
152 100
150 154.4 125.4 188.2
115 56.6 47.8 71.6

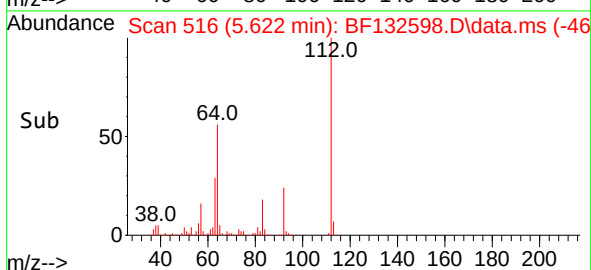
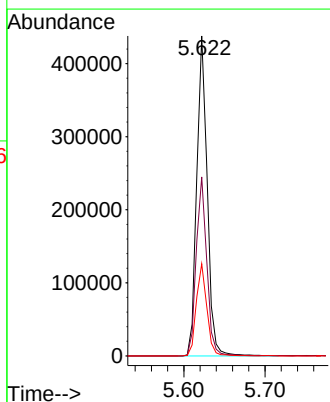
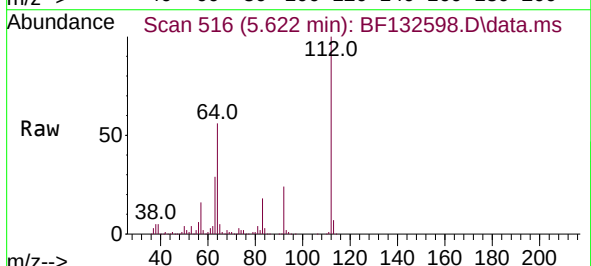
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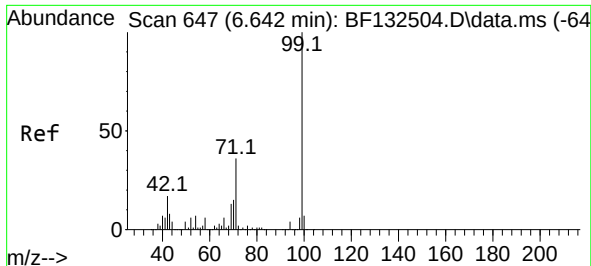
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#5
2-Fluorophenol
Concen: 33.137 ng
RT: 5.622 min Scan# 516
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

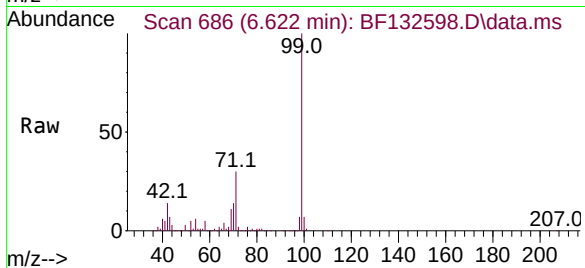
Tgt Ion:112 Resp: 391335
Ion Ratio Lower Upper
112 100
64 55.9 51.6 77.4
63 28.8 27.4 41.2





#7
Phenol-d6
Concen: 30.478 ng
RT: 6.622 min Scan# 68
Delta R.T. -0.015 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

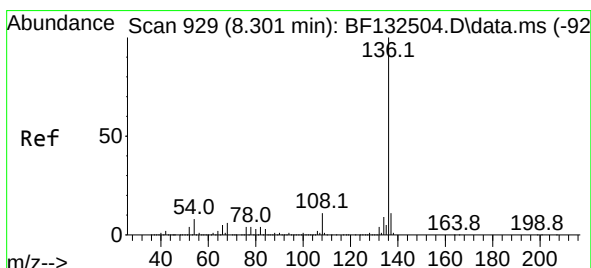
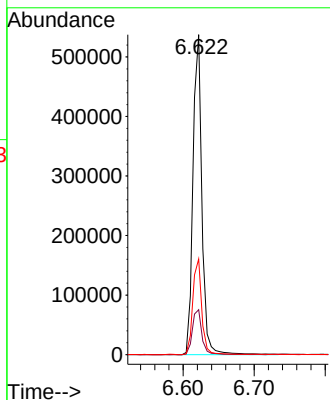
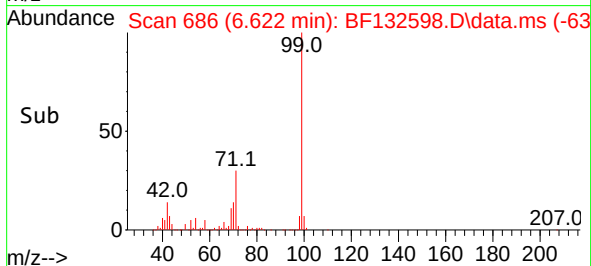
Instrument :
BNA_F
ClientSampleId :
HD-01-022723



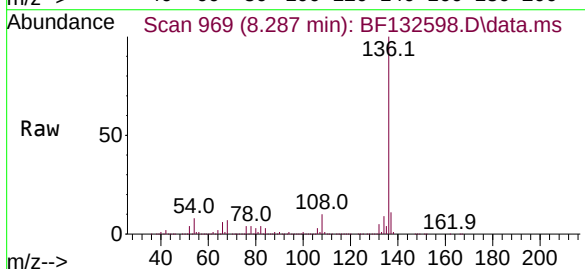
Tgt Ion: 99 Resp: 469744
Ion Ratio Lower Upper
99 100
42 14.0 13.9 20.9
71 29.9 28.5 42.7

Manual Integrations
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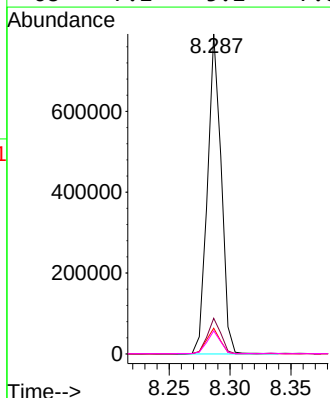
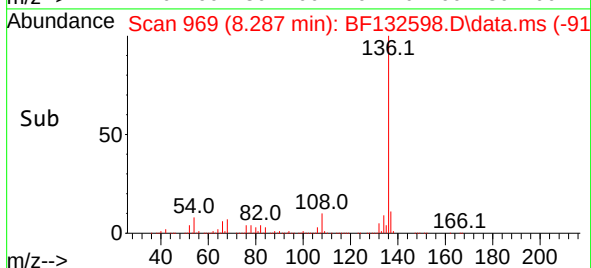
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023

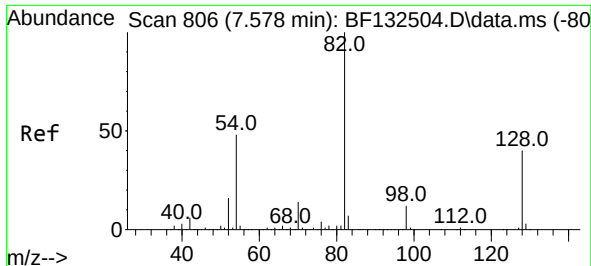


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.287 min Scan# 969
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51



Tgt Ion:136 Resp: 623083
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.0 6.2 9.4
68 7.2 5.2 7.8





#23
Nitrobenzene-d5
Concen: 20.716 ng
RT: 7.557 min Scan# 845
Delta R.T. -0.015 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :

BNA_F

ClientSampleId :

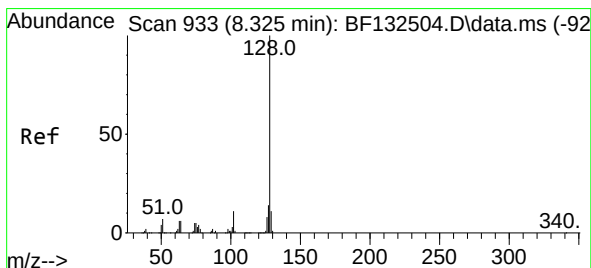
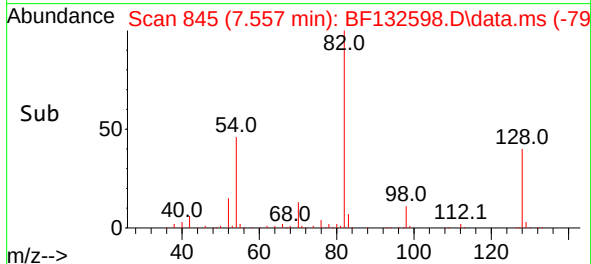
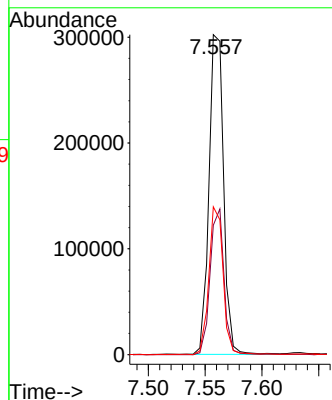
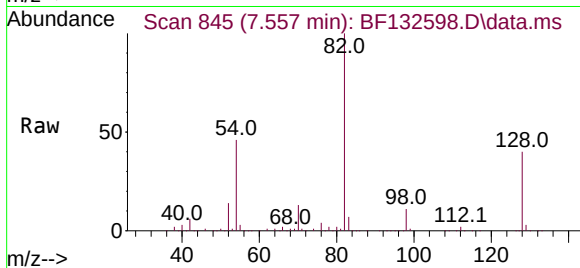
HD-01-022723

Tgt Ion: 82 Resp: 272060
Ion Ratio Lower Upper
82 100
128 40.4 32.2 48.2
54 46.2 38.4 57.6

Manual Integrations

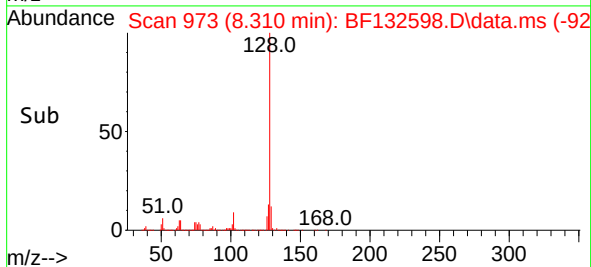
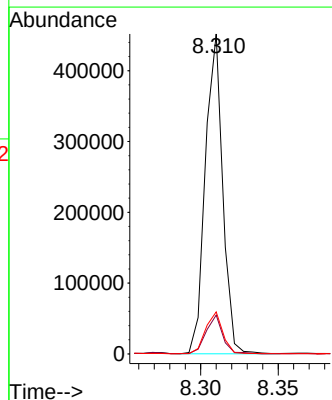
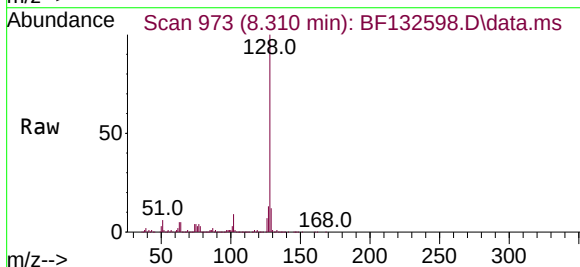
APPROVED

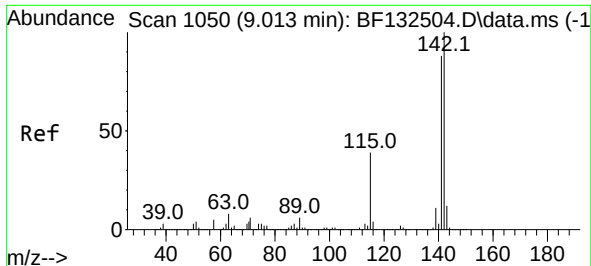
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#31
Naphthalene
Concen: 11.102 ng
RT: 8.310 min Scan# 973
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Tgt Ion:128 Resp: 354137
Ion Ratio Lower Upper
128 100
129 12.1 9.1 13.7
127 13.1 11.0 16.6





#37

2-Methylnaphthalene

Concen: 8.196 ng

RT: 8.998 min Scan# 1107

Delta R.T. -0.009 min

Lab File: BF132598.D

Acq: 01 Mar 2023 18:51

Instrument :

BNA_F

ClientSampleId :

HD-01-022723

Tgt Ion:142 Resp: 178159

Ion Ratio Lower Upper

142 100

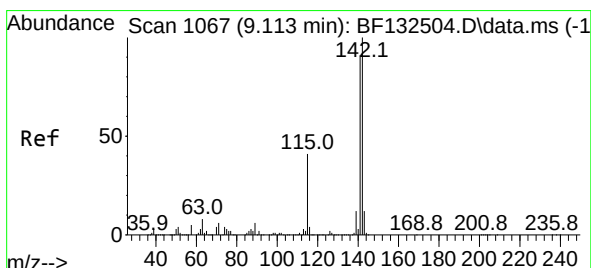
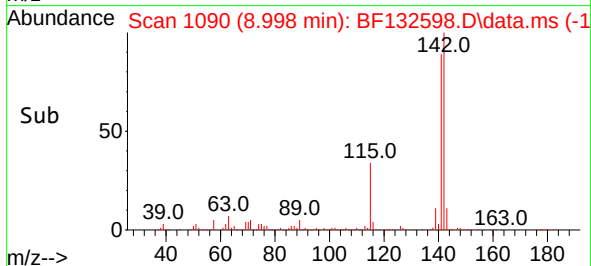
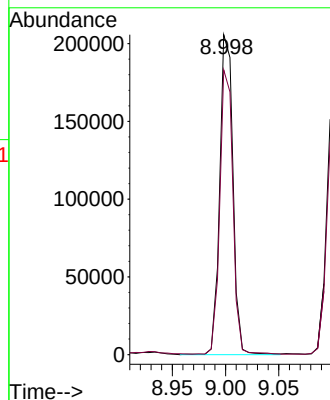
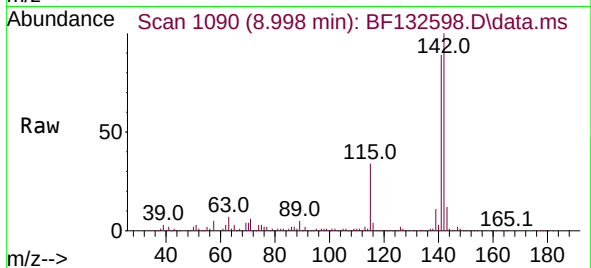
141 89.0 70.2 105.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023

Supervised By :Jagrut Upadhyay 03/02/2023



#38

1-Methylnaphthalene

Concen: 6.228 ng

RT: 9.098 min Scan# 1107

Delta R.T. -0.009 min

Lab File: BF132598.D

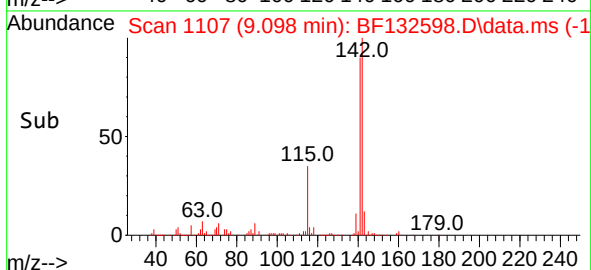
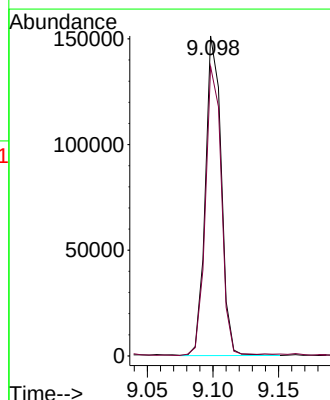
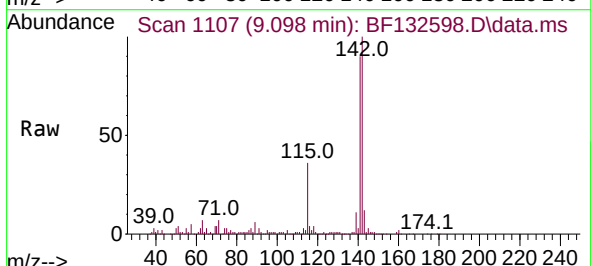
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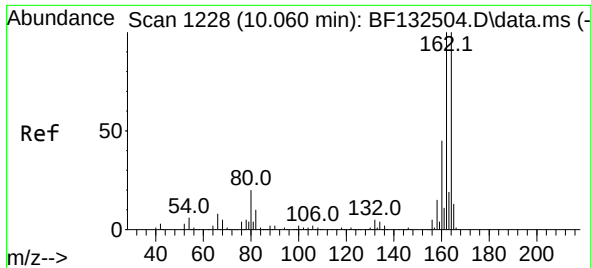
Tgt Ion:142 Resp: 126529

Ion Ratio Lower Upper

142 100

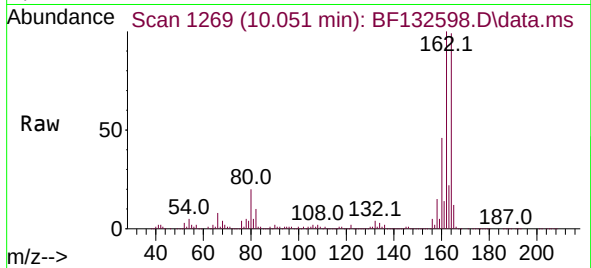
141 90.4 73.0 109.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.051 min Scan# 1403
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

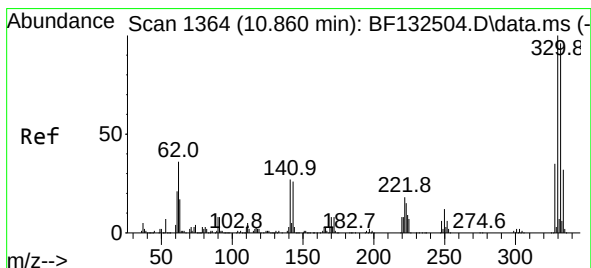
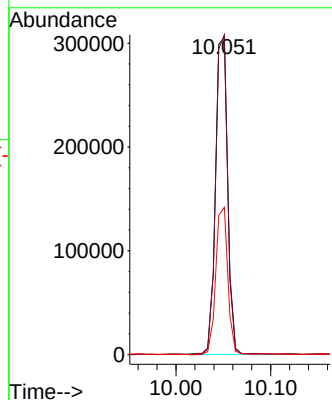
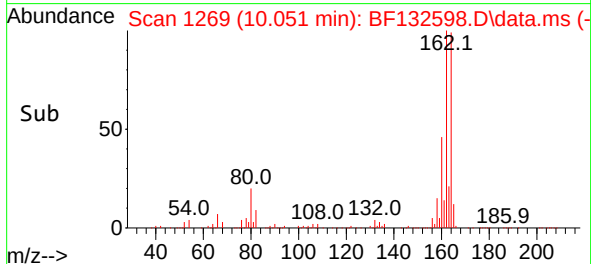
Instrument :
BNA_F
ClientSampleId :
HD-01-022723



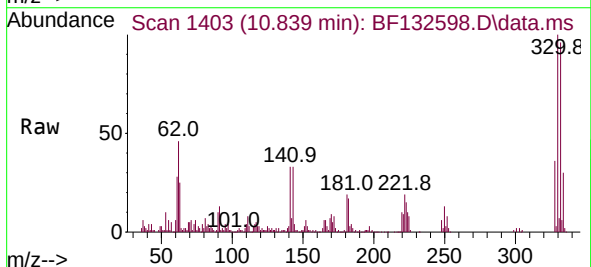
Tgt Ion:164 Resp: 272508
Ion Ratio Lower Upper
164 100
162 100.9 79.8 119.8
160 46.4 35.8 53.6

Manual Integrations
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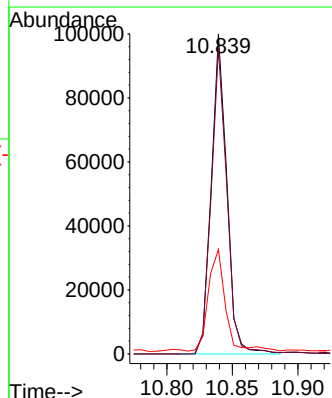
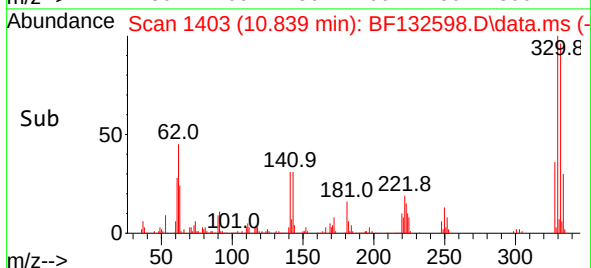
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023

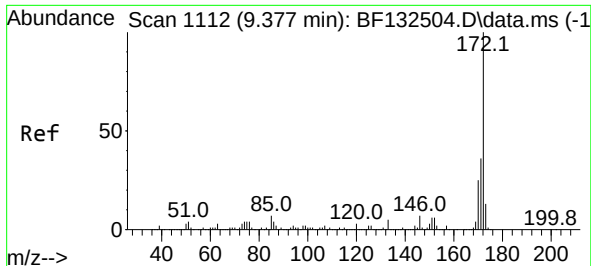


#42
2,4,6-Tribromophenol
Concen: 27.911 ng
RT: 10.839 min Scan# 1403
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51



Tgt Ion:330 Resp: 82140
Ion Ratio Lower Upper
330 100
332 96.0 76.2 114.4
141 34.6 28.4 42.6





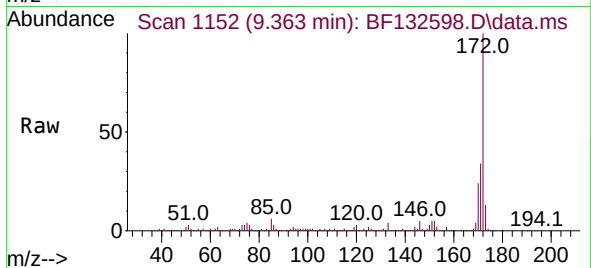
#45
2-Fluorobiphenyl
Concen: 24.107 ng
RT: 9.363 min Scan# 1112
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :

BNA_F

ClientSampleId :

HD-01-022723

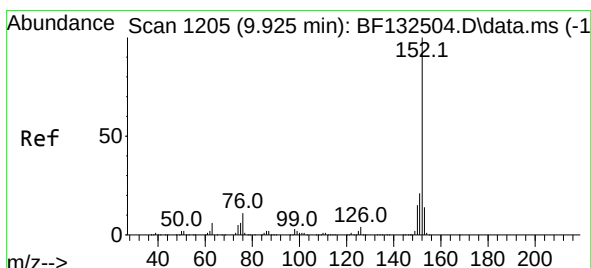
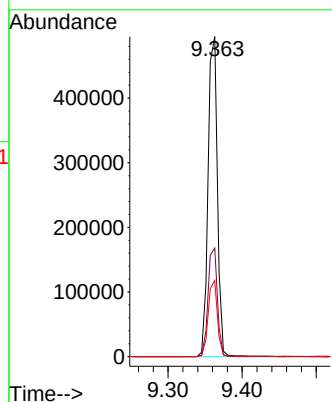
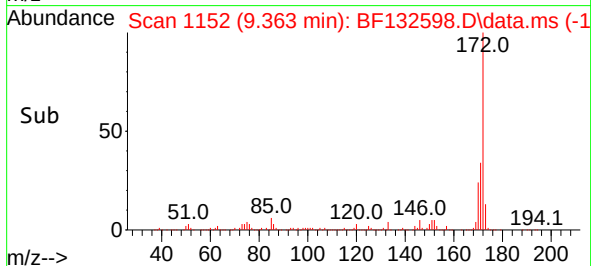


Tgt Ion:172 Resp: 431431
Ion Ratio Lower Upper
172 100
171 33.9 28.8 43.2
170 23.8 19.7 29.5

Manual Integrations

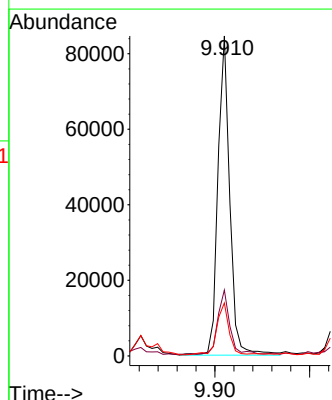
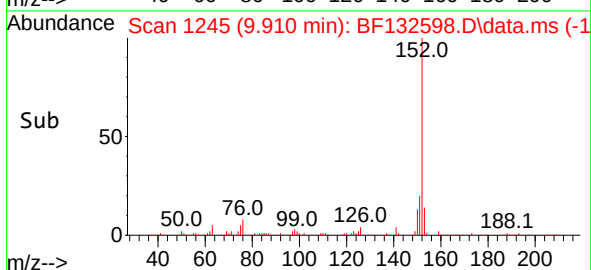
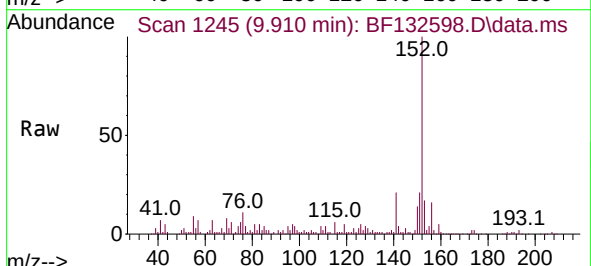
APPROVED

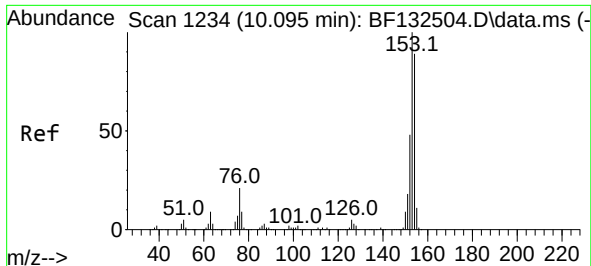
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#49
Acenaphthylene
Concen: 2.819 ng
RT: 9.910 min Scan# 1245
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Tgt Ion:152 Resp: 73359
Ion Ratio Lower Upper
152 100
151 20.6 16.4 24.6
153 16.5 11.0 16.6





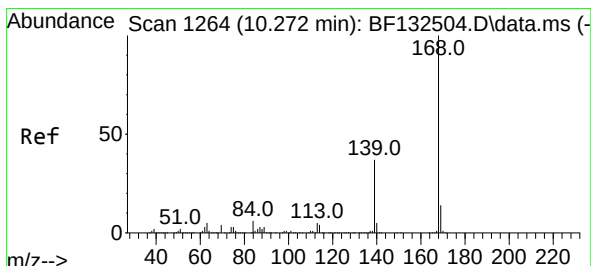
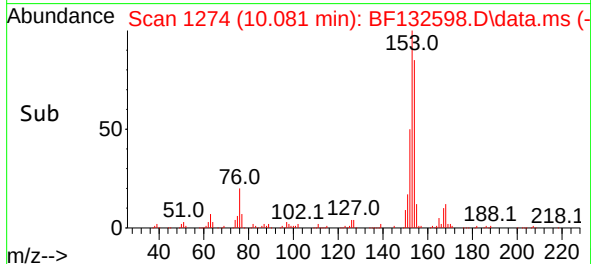
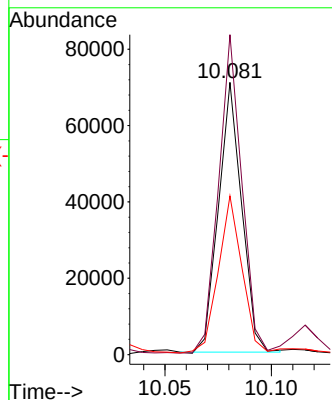
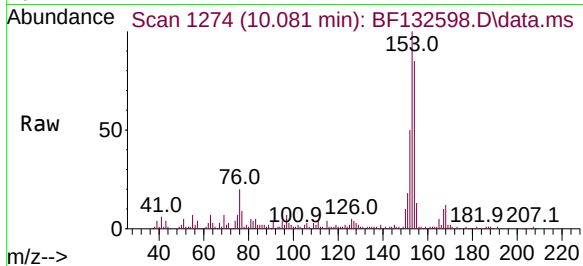
#52
Acenaphthene
Concen: 3.238 ng
RT: 10.081 min Scan# 1303
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :
BNA_F
ClientSampleId :
HD-01-022723

Tgt Ion:154 Resp: 53514
Ion Ratio Lower Upper
154 100
153 117.5 89.8 134.8
152 58.3 43.3 64.9

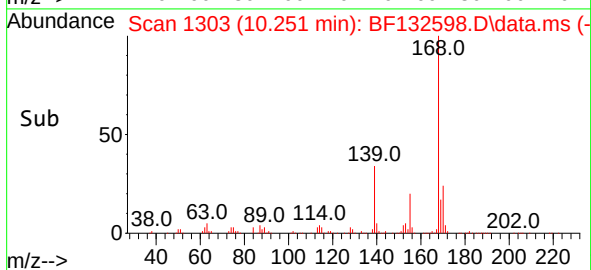
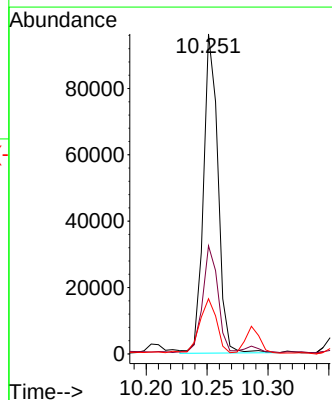
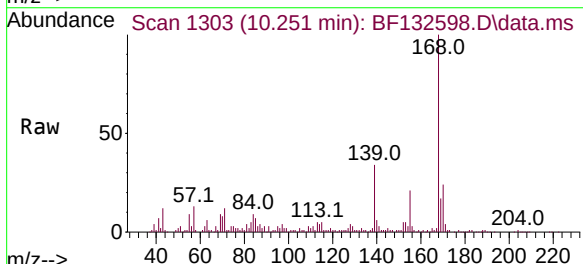
Manual Integrations
APPROVED

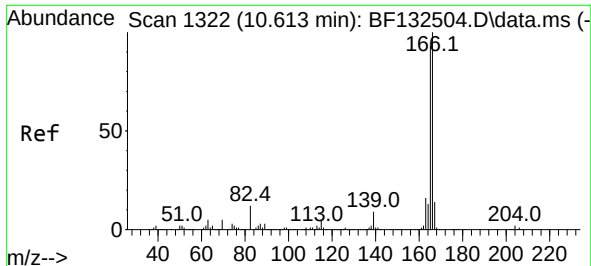
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#55
Dibenzofuran
Concen: 3.332 ng
RT: 10.251 min Scan# 1303
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

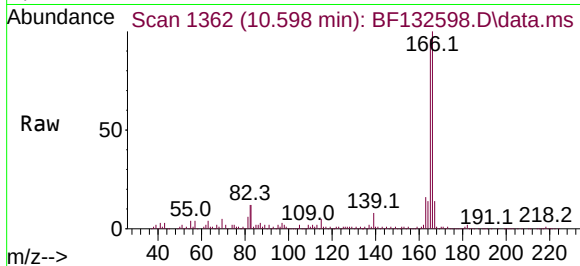
Tgt Ion:168 Resp: 80271
Ion Ratio Lower Upper
168 100
139 33.8 29.8 44.6
169 17.2 10.9 16.3#





#58
Fluorene
Concen: 7.674 ng
RT: 10.598 min Scan# 1322
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

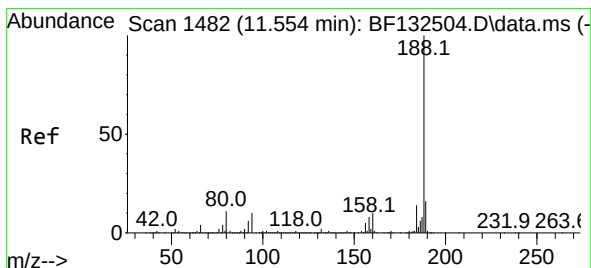
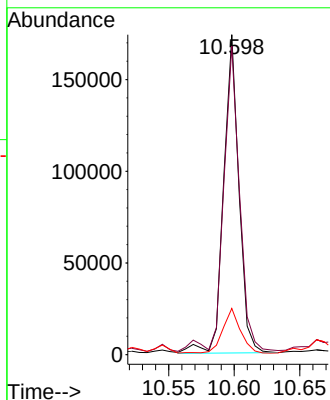
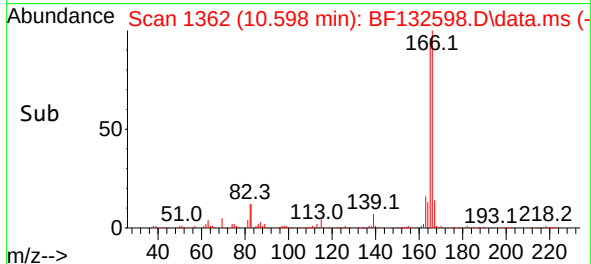
Instrument :
BNA_F
ClientSampleId :
HD-01-022723



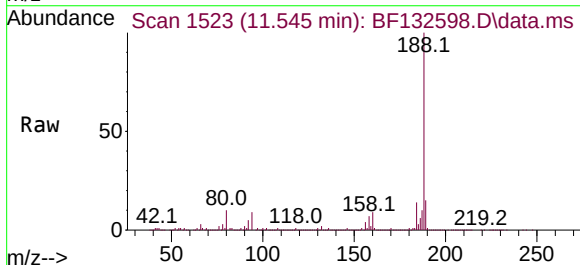
Tgt Ion:166 Resp: 141412
Ion Ratio Lower Upper
166 100
165 96.4 74.2 111.4
167 14.4 11.1 16.7

Manual Integrations
APPROVED

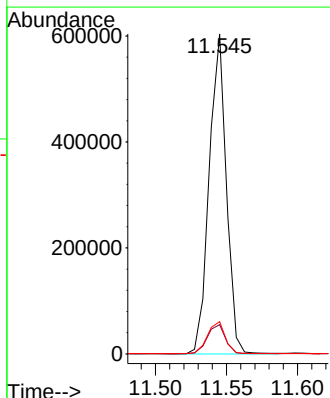
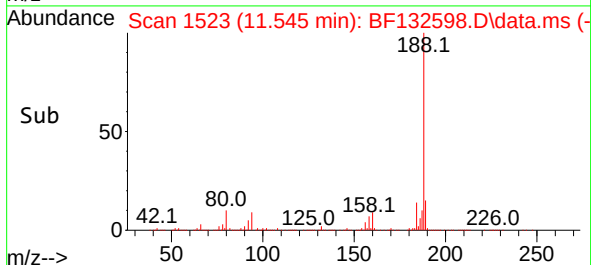
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023

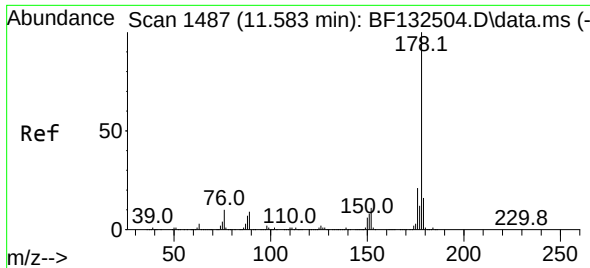


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.545 min Scan# 1523
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51



Tgt Ion:188 Resp: 508406
Ion Ratio Lower Upper
188 100
94 9.1 8.3 12.5
80 10.1 8.7 13.1





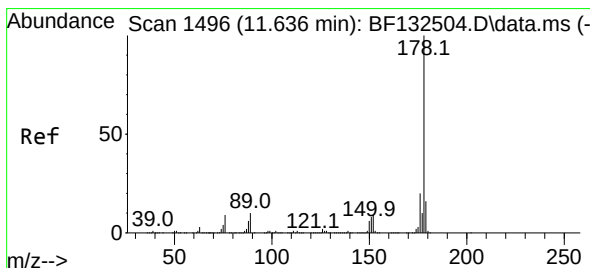
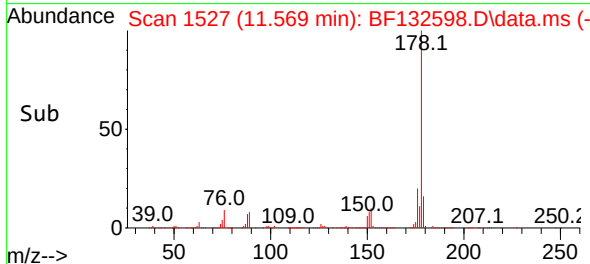
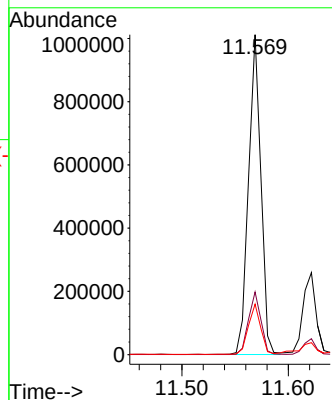
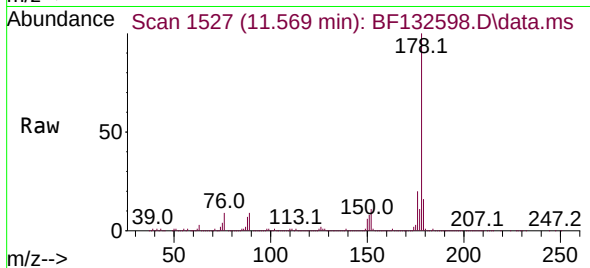
#71
Phenanthrene
Concen: 30.824 ng
RT: 11.569 min Scan# 11536
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :
BNA_F
ClientSampleId :
HD-01-022723

Tgt Ion:178 Resp: 811838
Ion Ratio Lower Upper
178 100
176 19.6 16.5 24.7
179 15.8 13.0 19.6

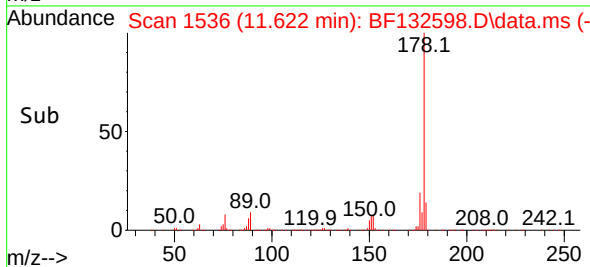
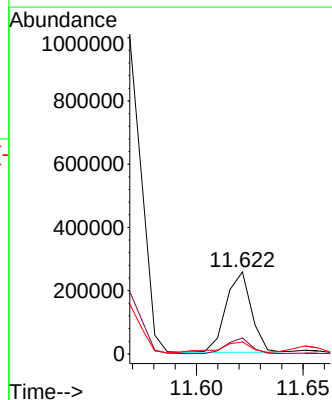
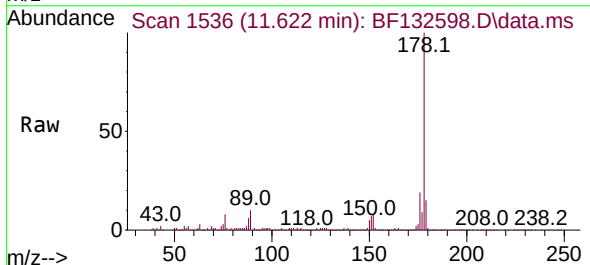
Manual Integrations
APPROVED

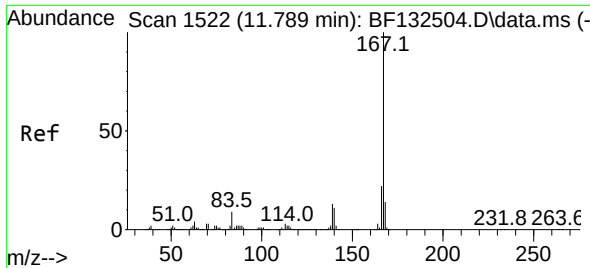
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#72
Anthracene
Concen: 7.782 ng
RT: 11.622 min Scan# 1536
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Tgt Ion:178 Resp: 211069
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 14.6 12.5 18.7





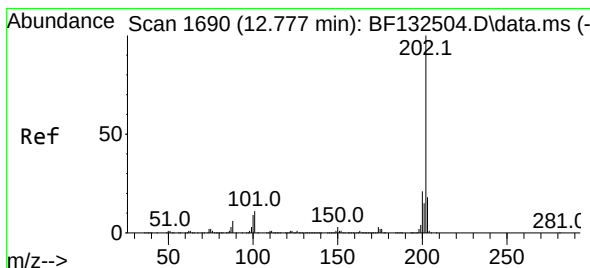
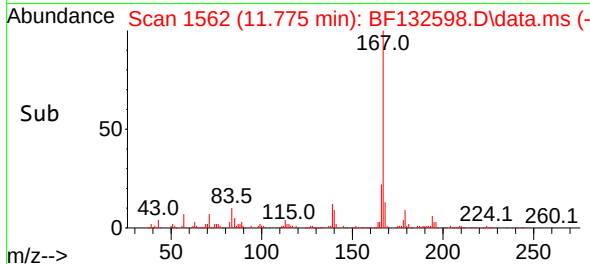
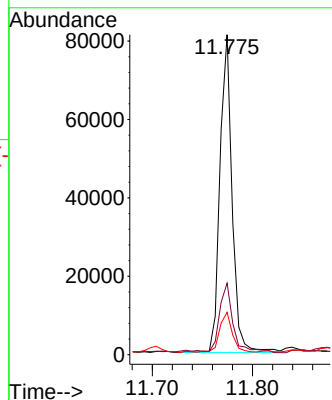
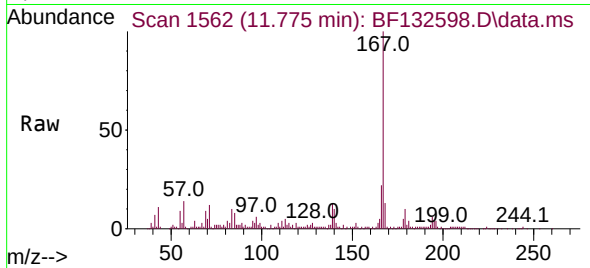
#73
 Carbazole
 Concen: 2.804 ng
 RT: 11.775 min Scan# 11731
 Delta R.T. -0.009 min
 Lab File: BF132598.D
 Acq: 01 Mar 2023 18:51

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-022723

Tgt Ion:167 Resp: 68576
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.7 26.5
 139 13.2 10.5 15.7

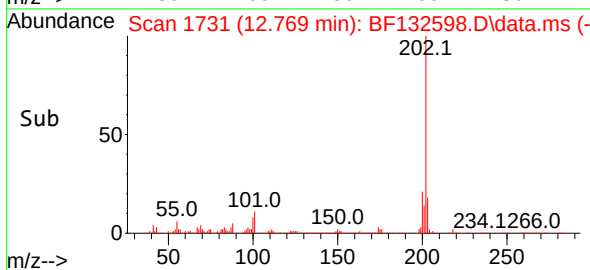
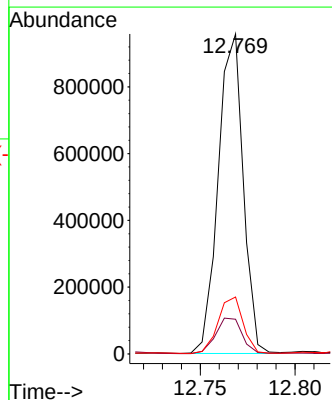
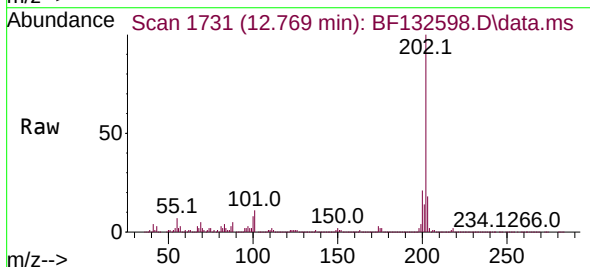
Manual Integrations
 APPROVED

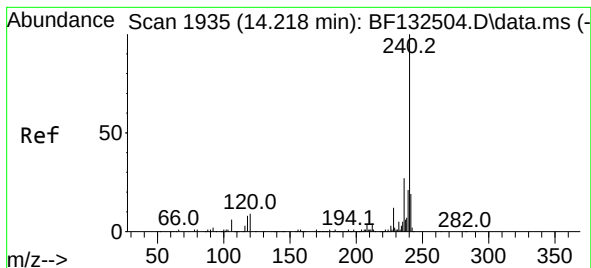
Reviewed By :Yogesh Patel 03/02/2023
 Supervised By :Jagrut Upadhyay 03/02/2023



#75
 Fluoranthene
 Concen: 30.570 ng
 RT: 12.769 min Scan# 1731
 Delta R.T. -0.003 min
 Lab File: BF132598.D
 Acq: 01 Mar 2023 18:51

Tgt Ion:202 Resp: 880201
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 31.4
 203 17.8 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.204 min Scan# 1935

Delta R.T. -0.003 min

Lab File: BF132598.D

Acq: 01 Mar 2023 18:51

Instrument :

BNA_F

ClientSampleId :

HD-01-022723

Tgt Ion:240 Resp: 438220

Ion Ratio Lower Upper

240 100

120 10.1 7.2 10.8

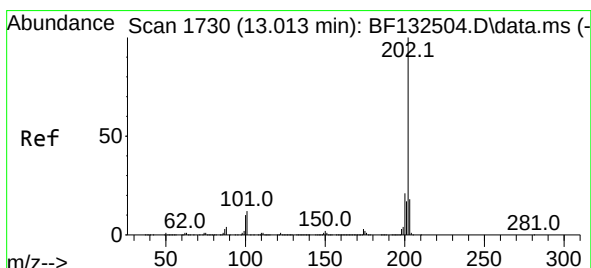
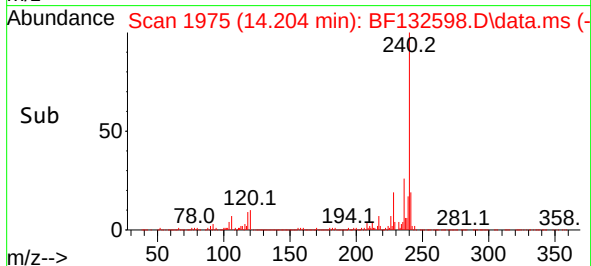
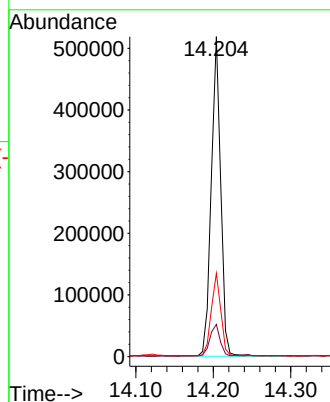
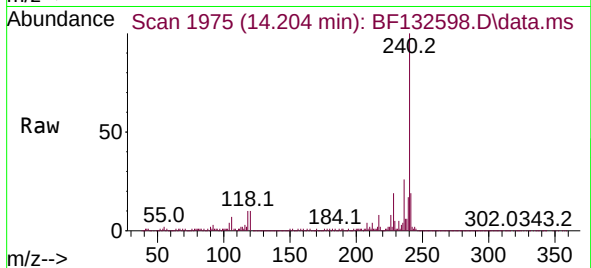
236 26.0 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023

Supervised By :Jagrut Upadhyay 03/02/2023



#78

Pyrene

Concen: 23.572 ng

RT: 12.998 min Scan# 1770

Delta R.T. -0.003 min

Lab File: BF132598.D

Acq: 01 Mar 2023 18:51

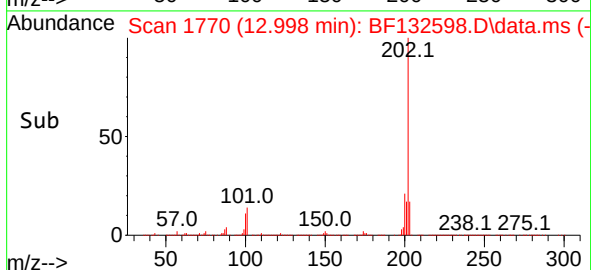
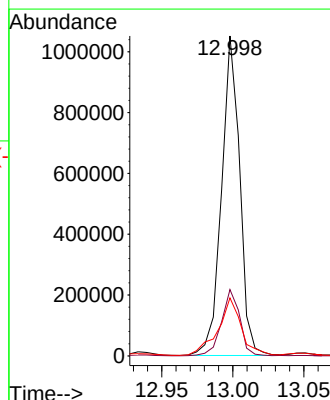
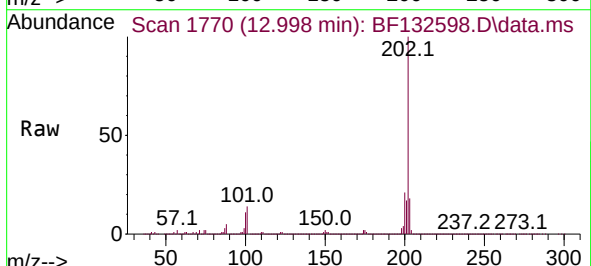
Tgt Ion:202 Resp: 939137

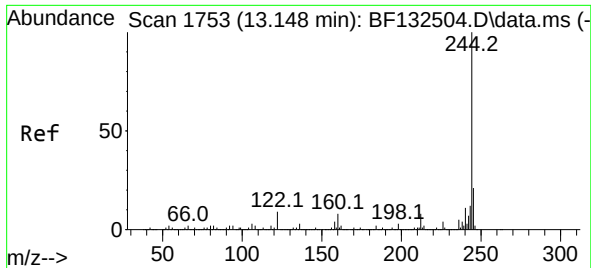
Ion Ratio Lower Upper

202 100

200 20.7 17.1 25.7

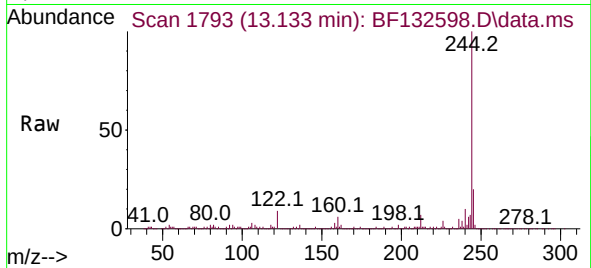
203 18.1 14.6 21.8





#79
 Terphenyl-d14
 Concen: 20.060 ng
 RT: 13.133 min Scan# 1753
 Delta R.T. -0.009 min
 Lab File: BF132598.D
 Acq: 01 Mar 2023 18:51

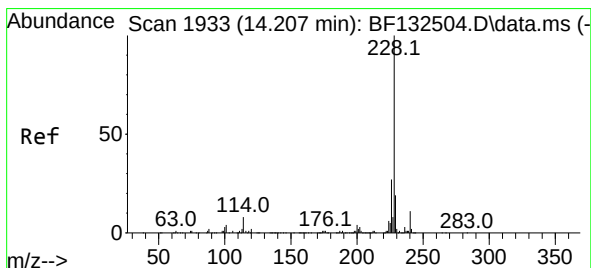
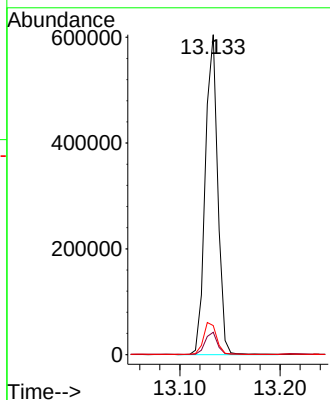
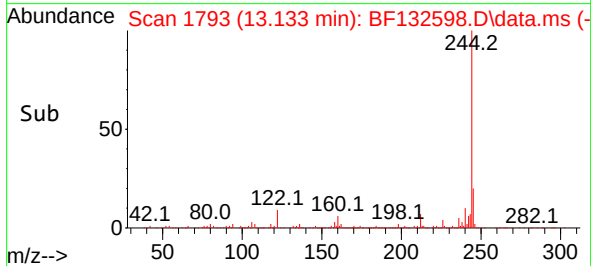
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-022723



Tgt Ion:244 Resp: 519928
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.5 9.7
 122 9.1 7.5 11.3

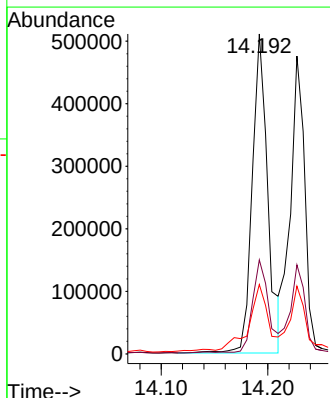
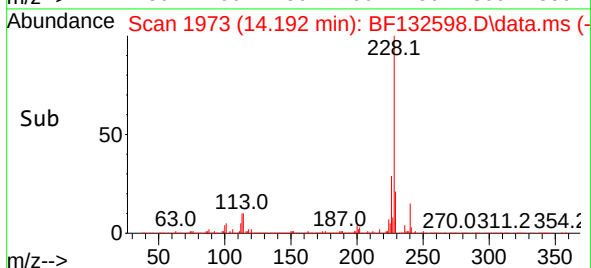
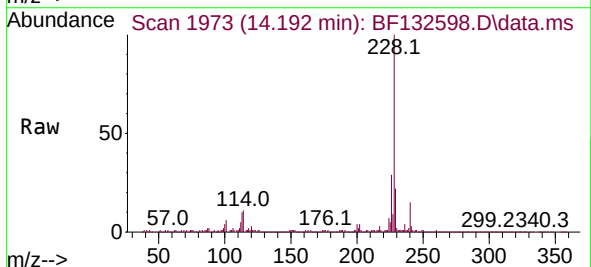
Manual Integrations
 APPROVED

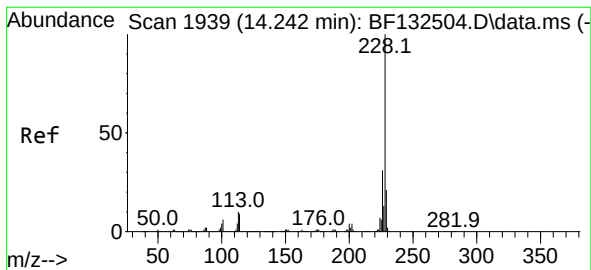
Reviewed By :Yogesh Patel 03/02/2023
 Supervised By :Jagrut Upadhyay 03/02/2023



#81
 Benzo(a)anthracene
 Concen: 15.768 ng
 RT: 14.192 min Scan# 1973
 Delta R.T. -0.003 min
 Lab File: BF132598.D
 Acq: 01 Mar 2023 18:51

Tgt Ion:228 Resp: 517019
 Ion Ratio Lower Upper
 228 100
 226 29.4 21.7 32.5
 229 21.7 15.4 23.2





#83

Chrysene

Concen: 14.625 ng

RT: 14.227 min Scan# 1939

Delta R.T. -0.009 min

Lab File: BF132598.D

Acq: 01 Mar 2023 18:51

Instrument :

BNA_F

ClientSampleId :

HD-01-022723

Tgt Ion:228 Resp: 448416

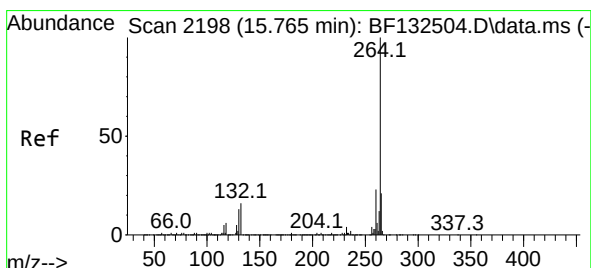
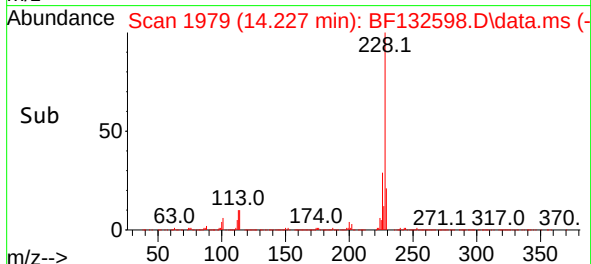
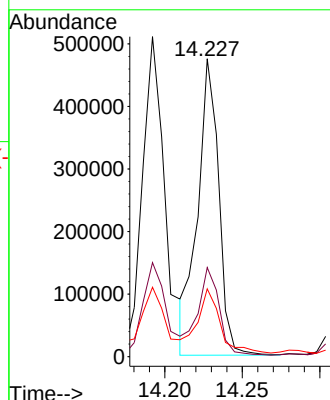
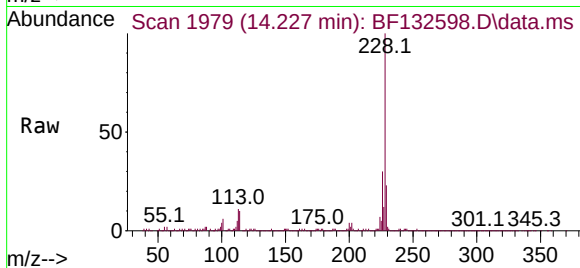
Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.0	37.6
229	22.8	16.4	24.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023

Supervised By :Jagrut Upadhyay 03/02/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.757 min Scan# 2239

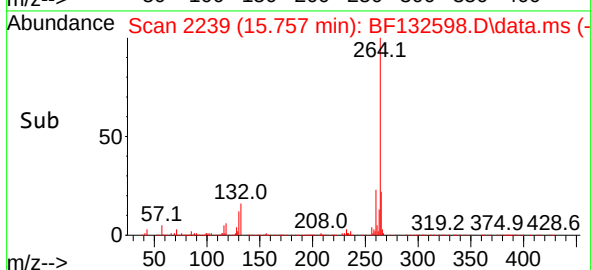
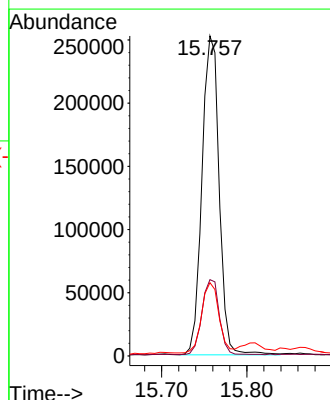
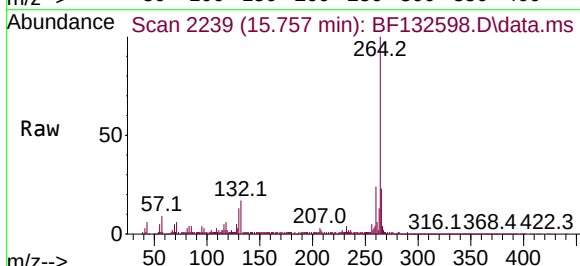
Delta R.T. 0.003 min

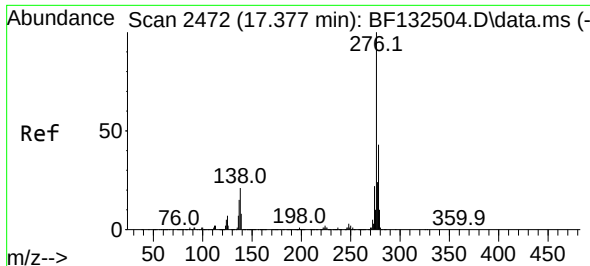
Lab File: BF132598.D

Acq: 01 Mar 2023 18:51

Tgt Ion:264 Resp: 354088

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.8	28.2
265	22.9	17.1	25.7





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.712 ng
RT: 17.357 min Scan# 211
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :

BNA_F

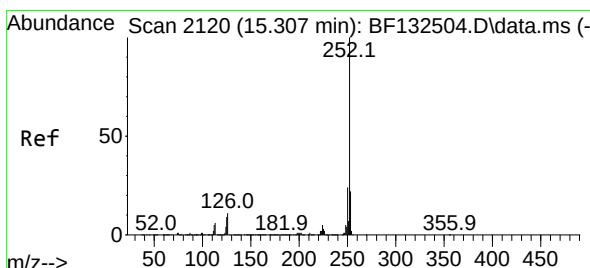
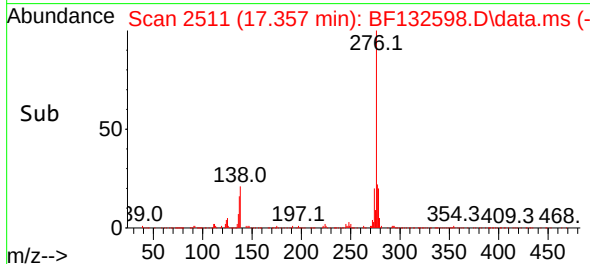
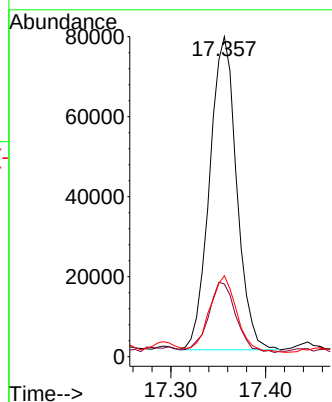
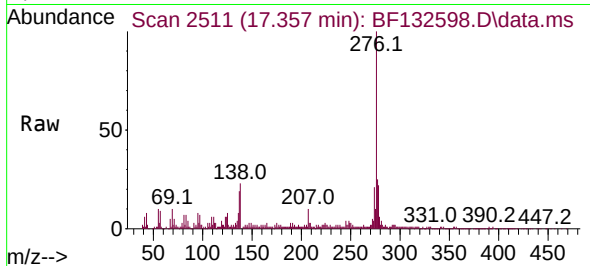
ClientSampleId :

HD-01-022723

Tgt Ion:276 Resp: 155724
Ion Ratio Lower Upper
276 100
138 23.0 19.0 28.4
277 24.5 20.0 30.0

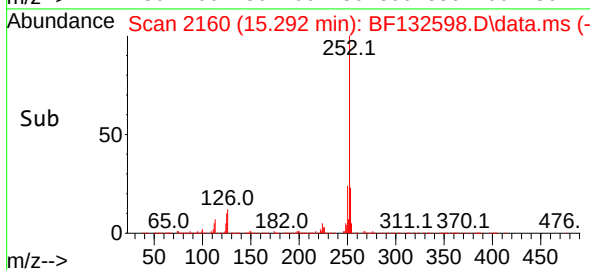
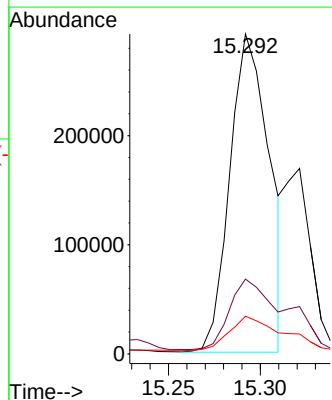
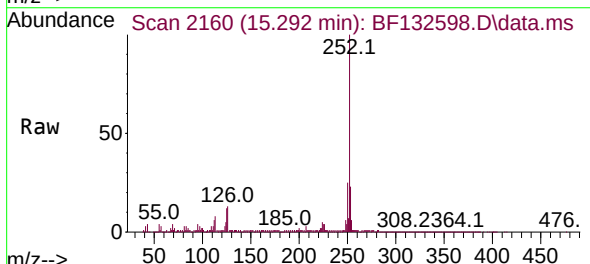
Manual Integrations
APPROVED

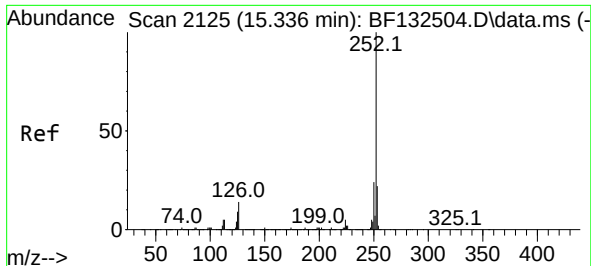
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#88
Benzo(b)fluoranthene
Concen: 18.386 ng m
RT: 15.292 min Scan# 2160
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Tgt Ion:252 Resp: 436292
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 11.8 7.0 10.6#





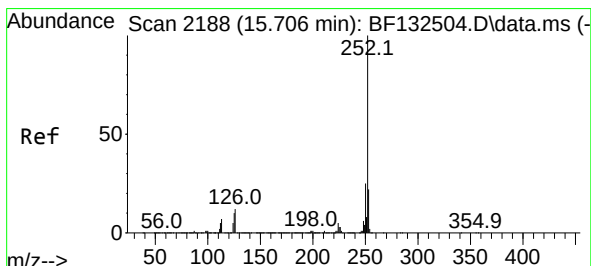
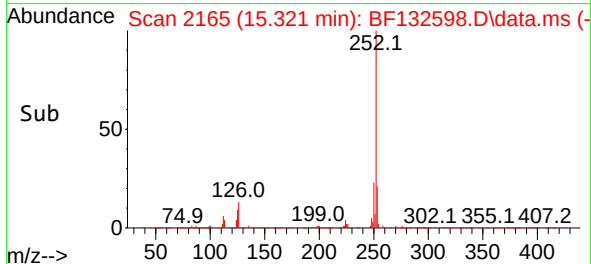
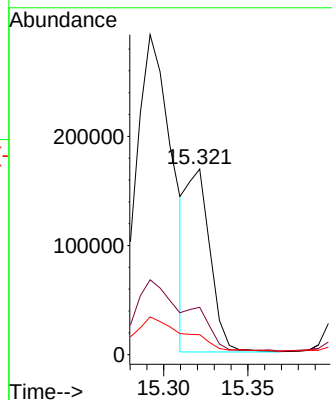
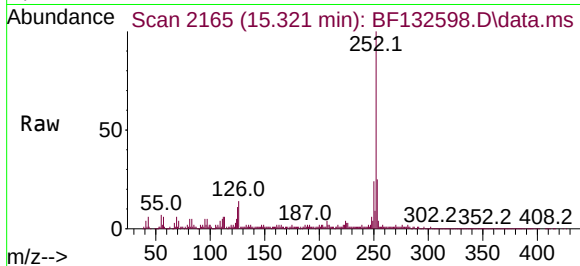
#89
Benzo(k)fluoranthene
Concen: 7.001 ng m
RT: 15.321 min Scan# 2125
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :
BNA_F
ClientSampleId :
HD-01-022723

Tgt Ion:252 Resp: 162580
Ion Ratio Lower Upper
252 100
253 25.5 17.5 26.3
125 10.7 7.2 10.8

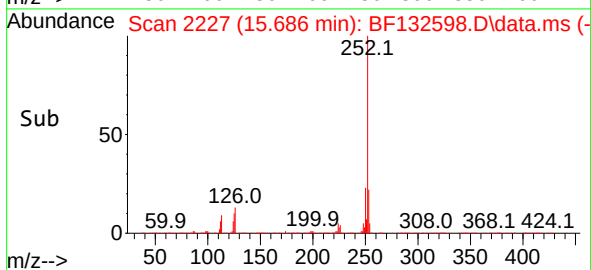
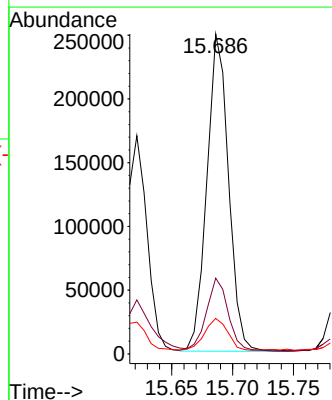
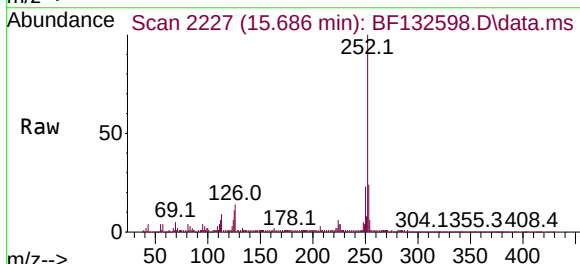
Manual Integrations
APPROVED

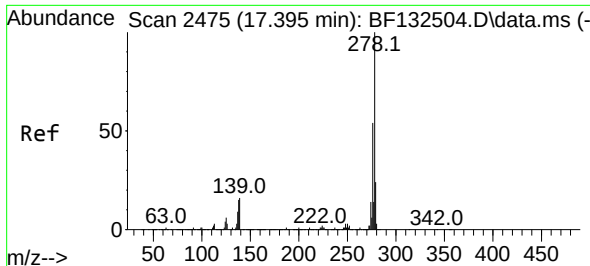
Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#90
Benzo(a)pyrene
Concen: 13.898 ng
RT: 15.686 min Scan# 2227
Delta R.T. -0.003 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Tgt Ion:252 Resp: 308653
Ion Ratio Lower Upper
252 100
253 23.7 17.2 25.8
125 11.1 8.0 12.0





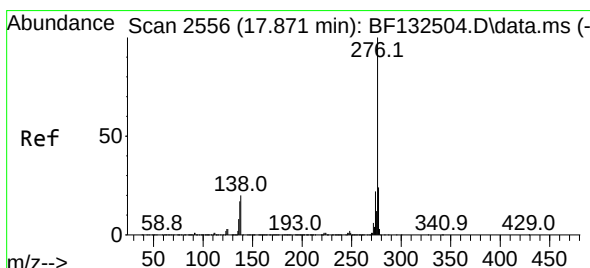
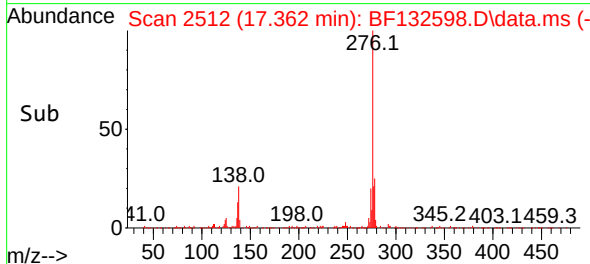
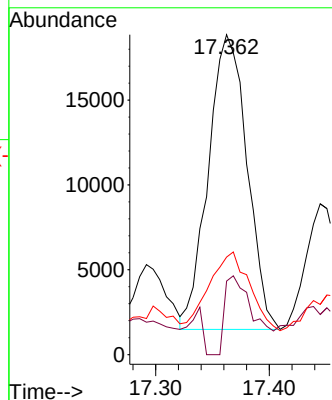
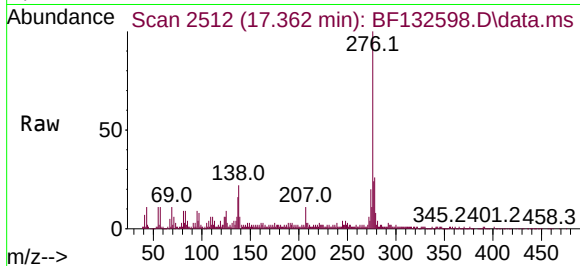
#91
Dibenzo(a,h)anthracene
Concen: 2.179 ng
RT: 17.362 min Scan# 2512
Delta R.T. -0.015 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Instrument :
BNA_F
ClientSampleId :
HD-01-022723

Tgt Ion:278 Resp: 41190
Ion Ratio Lower Upper
278 100
139 23.0 13.0 19.4
279 30.5 19.0 28.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/02/2023
Supervised By :Jagrut Upadhyay 03/02/2023



#92
Benzo(g,h,i)perylene
Concen: 8.516 ng
RT: 17.845 min Scan# 2594
Delta R.T. -0.009 min
Lab File: BF132598.D
Acq: 01 Mar 2023 18:51

Tgt Ion:276 Resp: 152569
Ion Ratio Lower Upper
276 100
277 24.1 18.9 28.3
138 23.5 16.2 24.4

