

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG032024\
 Data File : BG060691.D
 Acq On : 20 Mar 2024 14:35
 Operator : MA/JU
 Sample : P1803-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TRENCH-PIT

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
 Supervised By :Sohil Jodhani 03/21/2024

Quant Time: Mar 20 15:14:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 18 14:26:31 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.293	152	79254	20.000	ng	0.00
21) Naphthalene-d8	11.137	136	318470	20.000	ng	0.00
39) Acenaphthene-d10	14.921	164	225538	20.000	ng	0.00
64) Phenanthrene-d10	17.671	188	546224	20.000	ng	0.00
76) Chrysene-d12	21.989	240	537638	20.000	ng	0.00
86) Perylene-d12	25.532	264	643525	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.785	112	518094	102.763	ng	0.00
7) Phenol-d6	7.412	99	807331	110.390	ng	0.00
23) Nitrobenzene-d5	9.492	82	517556	84.578	ng	0.00
42) 2,4,6-Tribromophenol	16.407	330	364448	139.447	ng	0.00
45) 2-Fluorobiphenyl	13.546	172	989188	59.299	ng	0.00
79) Terphenyl-d14	20.256	244	1751634	58.890	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.718	178	503478	17.111	ng	98
72) Anthracene	17.806	178	71702	2.410	ng	99
73) Carbazole	18.082	167	62564	2.419	ng	99
75) Fluoranthene	19.709	202	809266	24.864	ng	97
78) Pyrene	20.074	202	665753	17.744	ng	98
81) Benzo(a)anthracene	21.966	228	329602	8.904	ng	100
83) Chrysene	22.042	228	349547m	9.725	ng	
87) Indeno(1,2,3-cd)pyrene	29.604	276	222774	5.075	ng	94
88) Benzo(b)fluoranthene	24.386	252	414969	11.721	ng	97
89) Benzo(k)fluoranthene	24.451	252	174967m	4.704	ng	
90) Benzo(a)pyrene	25.356	252	285141	8.215	ng	97
92) Benzo(g,h,i)perylene	30.920	276	213475	5.917	ng	97

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

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TRENCH-PIT

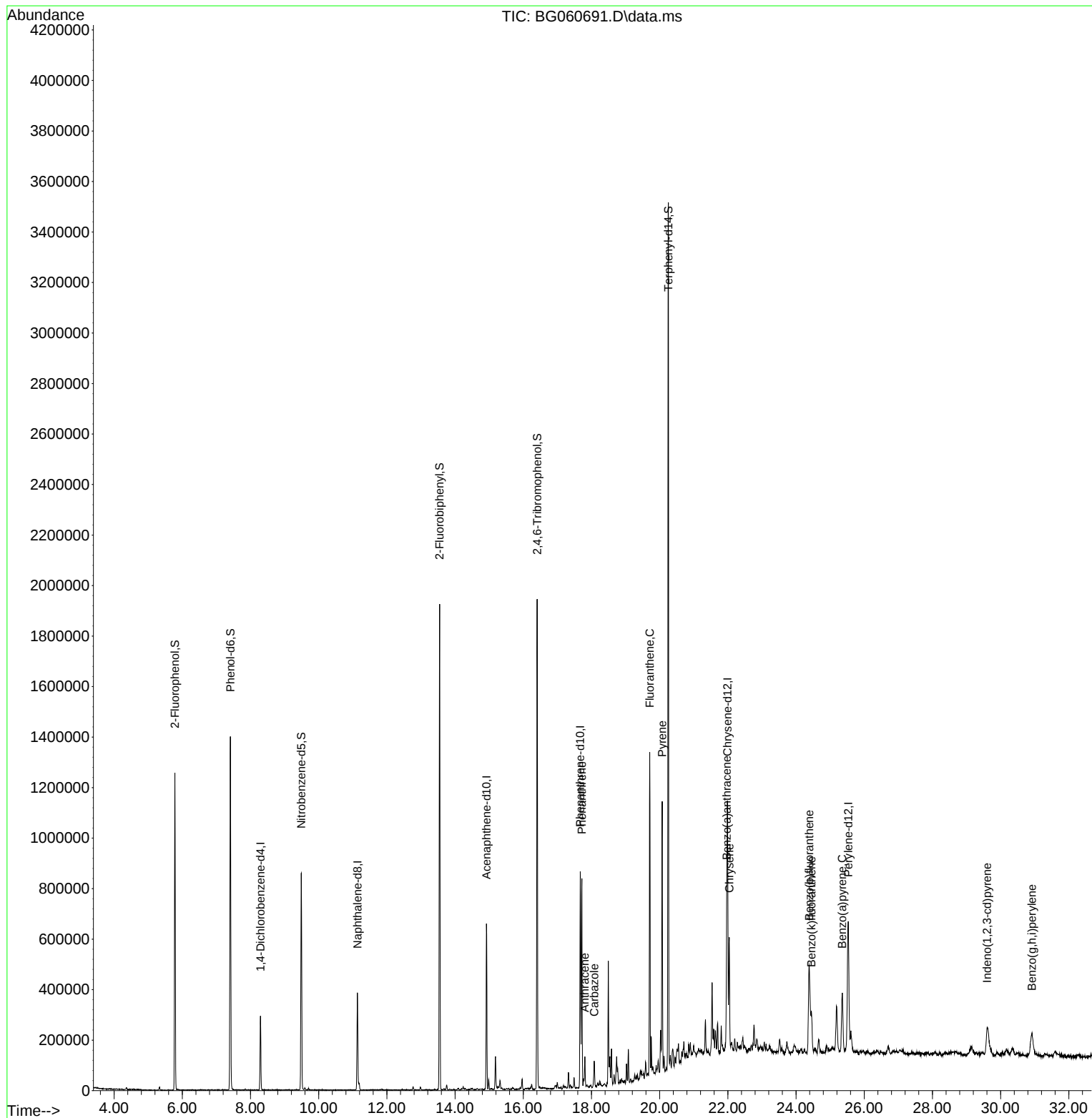
Manual Integrations

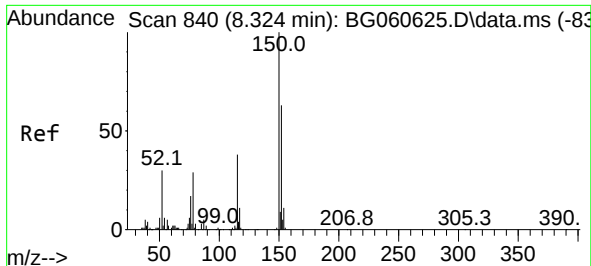
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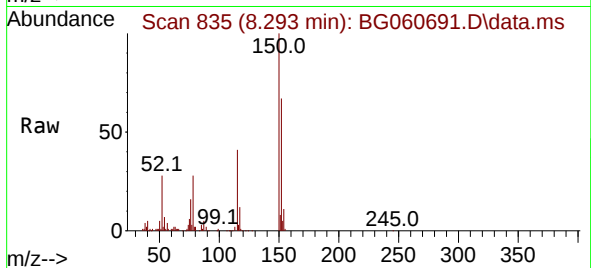
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.293 min Scan# 81
Delta R.T. 0.005 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

TRENCH-PIT

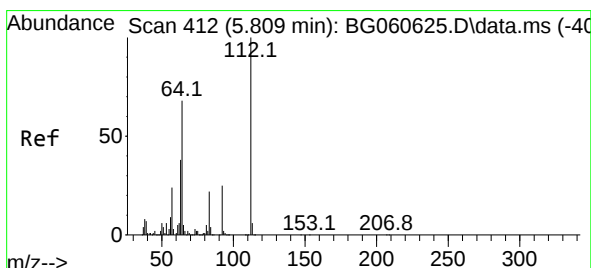
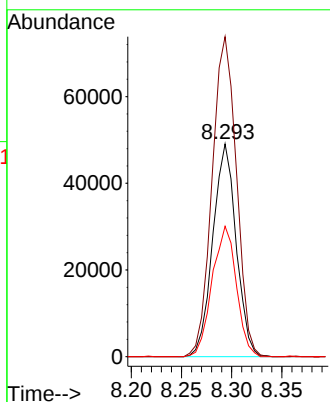
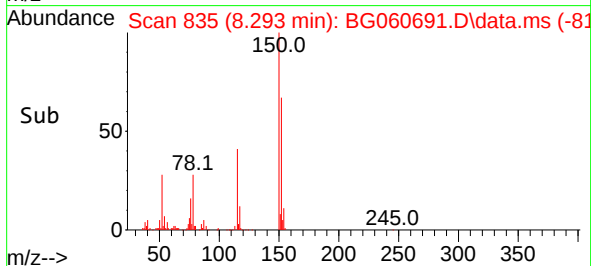


Tgt Ion:152 Resp: 79254
Ion Ratio Lower Upper
152 100
150 150.3 126.6 190.0
115 61.2 47.8 71.8

Manual Integrations

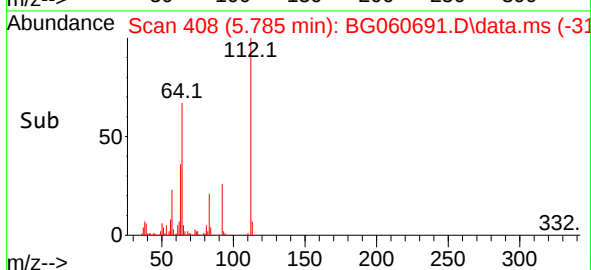
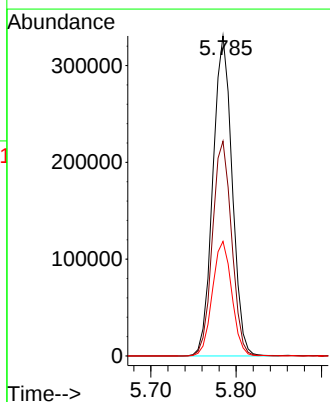
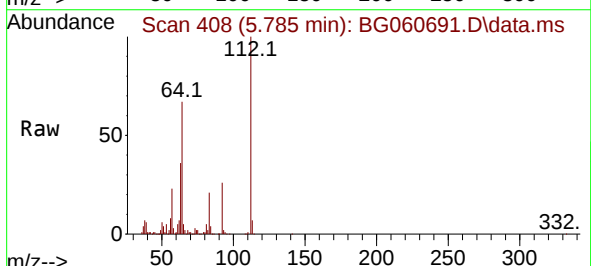
APPROVED

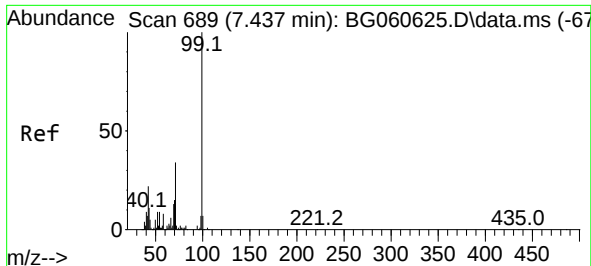
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#5
2-Fluorophenol
Concen: 102.763 ng
RT: 5.785 min Scan# 408
Delta R.T. 0.005 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Tgt Ion:112 Resp: 518094
Ion Ratio Lower Upper
112 100
64 67.1 54.1 81.1
63 35.8 30.3 45.5





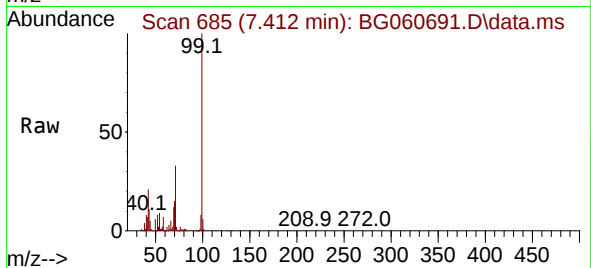
#7
Phenol-d6
Concen: 110.390 ng
RT: 7.412 min Scan# 689
Delta R.T. 0.005 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

TRENCH-PIT

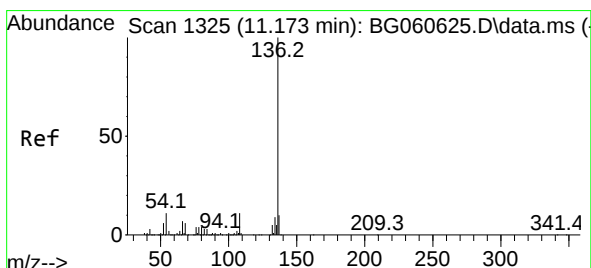
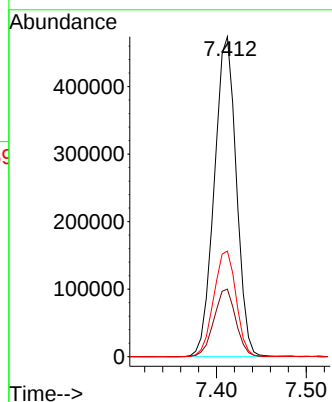
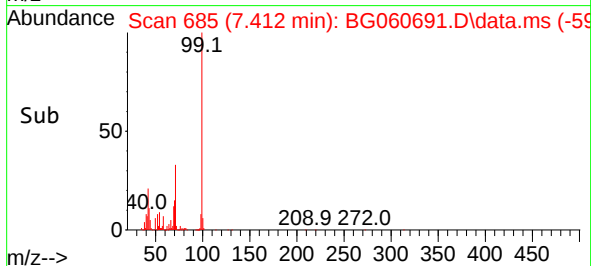


Tgt Ion: 99 Resp: 80733
Ion Ratio Lower Upper
99 100
42 21.1 17.5 26.3
71 33.0 27.4 41.0

Manual Integrations

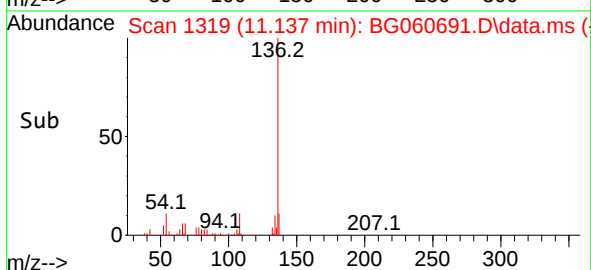
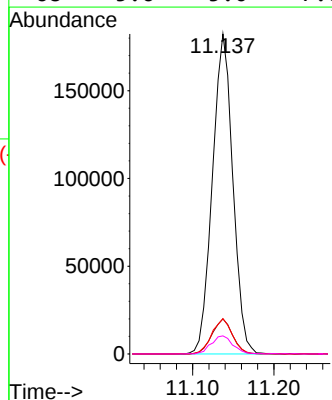
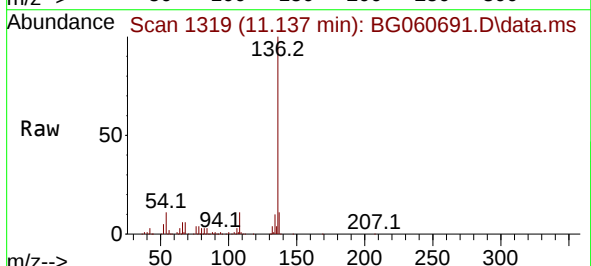
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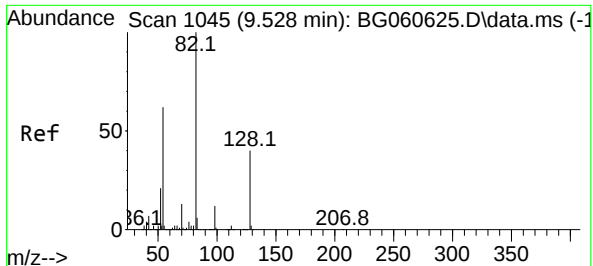
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.137 min Scan# 1319
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Tgt Ion:136 Resp: 318470
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 11.1 8.5 12.7
68 5.6 5.0 7.6





#23
Nitrobenzene-d5
Concen: 84.578 ng
RT: 9.492 min Scan# 1045
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

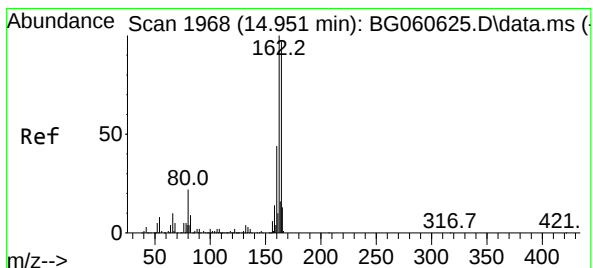
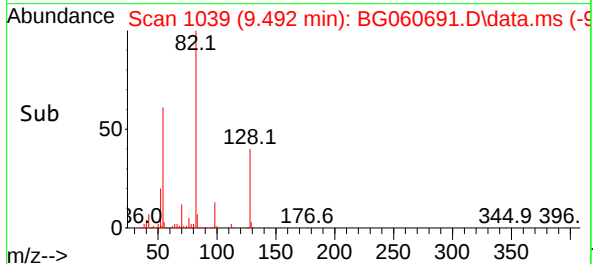
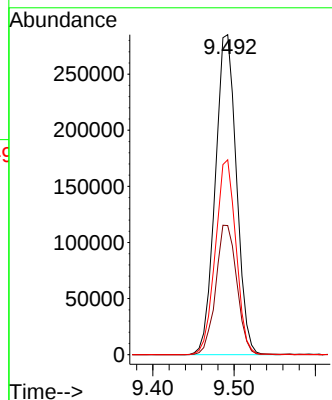
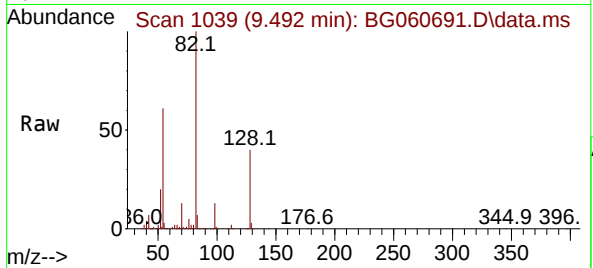
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Tgt Ion: 82 Resp: 517550
Ion Ratio Lower Upper
82 100
128 40.3 31.6 47.4
54 60.9 49.3 73.9

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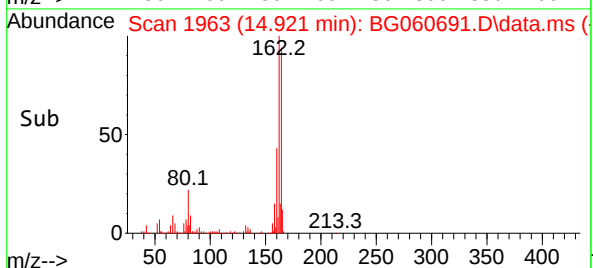
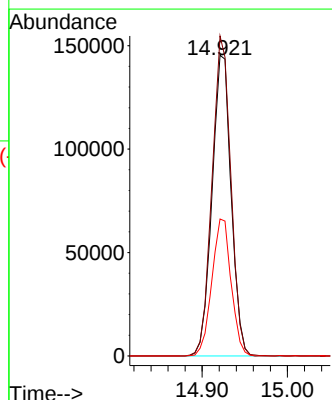
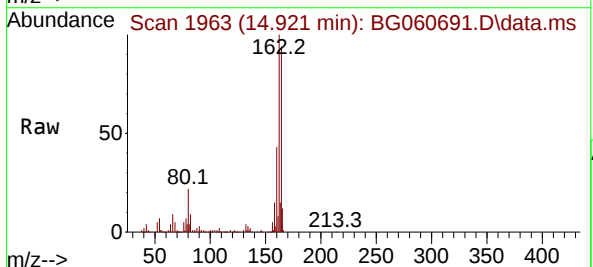
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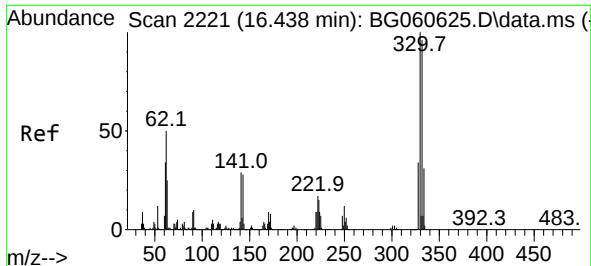
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.921 min Scan# 1963
Delta R.T. -0.007 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Tgt Ion:164 Resp: 225538
Ion Ratio Lower Upper
164 100
162 106.4 82.5 123.7
160 45.6 36.4 54.6





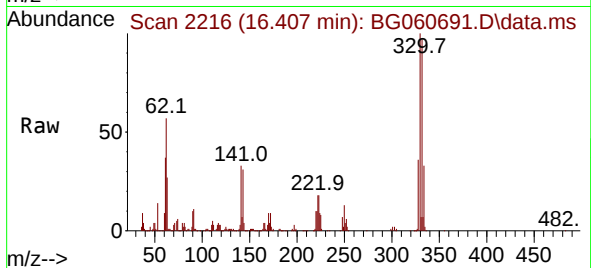
#42
2,4,6-Tribromophenol
Concen: 139.447 ng
RT: 16.407 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

TRENCH-PIT

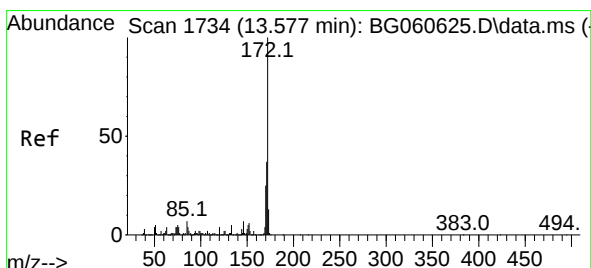
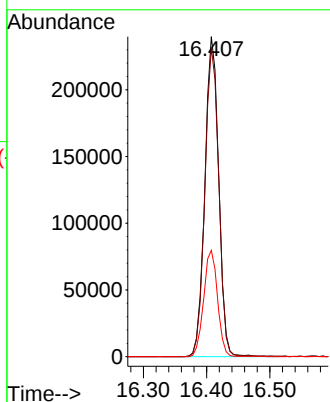
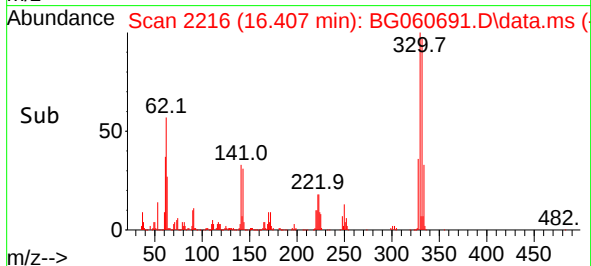


Tgt Ion:330 Resp: 364448
Ion Ratio Lower Upper
330 100
332 96.8 77.8 116.8
141 33.3 25.4 38.2

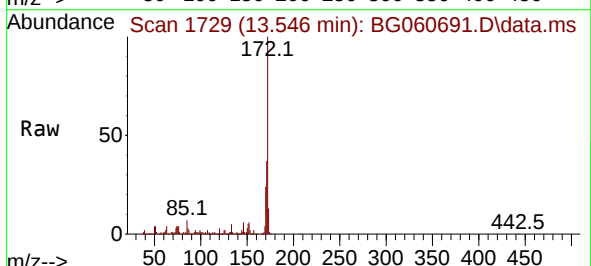
Manual Integrations

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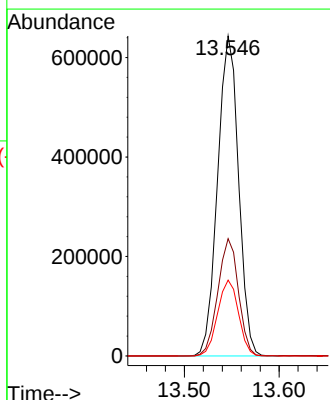
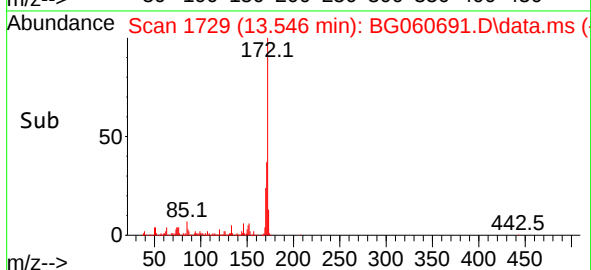
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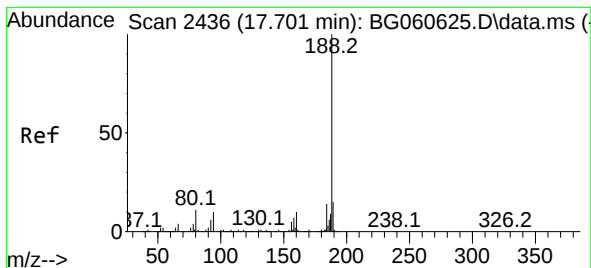


#45
2-Fluorobiphenyl
Concen: 59.299 ng
RT: 13.546 min Scan# 1729
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35



Tgt Ion:172 Resp: 989188
Ion Ratio Lower Upper
172 100
171 36.6 29.9 44.9
170 23.7 19.8 29.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.671 min Scan# 2436

Delta R.T. -0.001 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

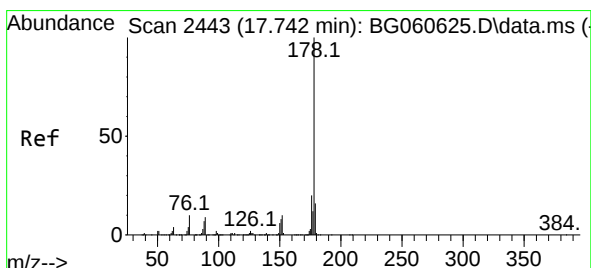
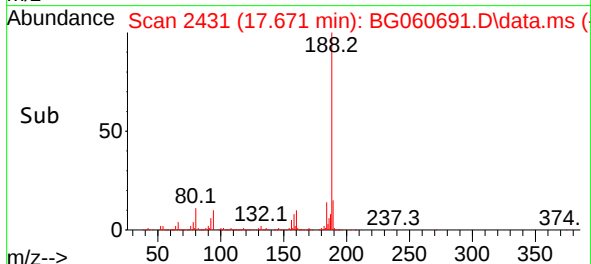
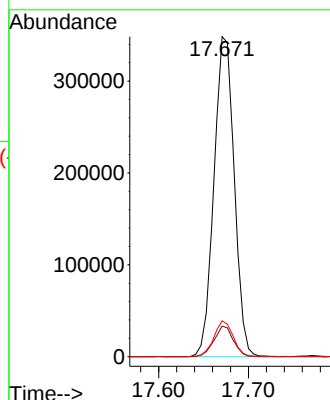
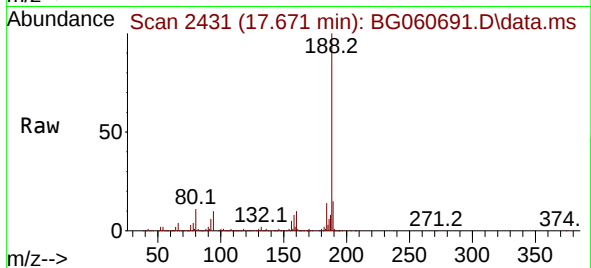
TRENCH-PIT

Tgt Ion:188 Resp: 546224
 Ion Ratio Lower Upper
 188 100
 94 9.6 7.9 11.9
 80 11.2 8.6 13.0

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#71

Phenanthrene

Concen: 17.111 ng

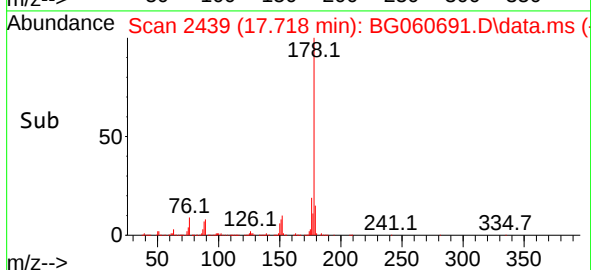
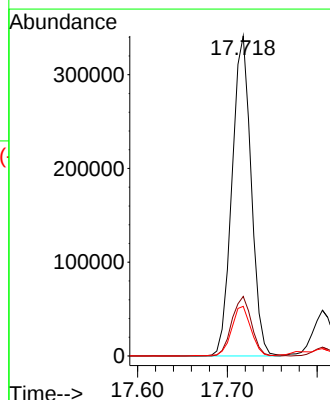
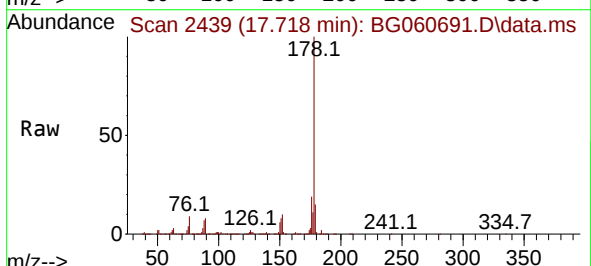
RT: 17.718 min Scan# 2439

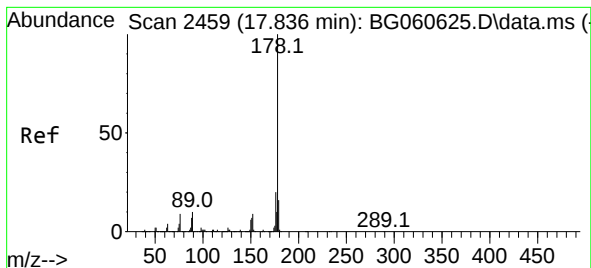
Delta R.T. -0.001 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Tgt Ion:178 Resp: 503478
 Ion Ratio Lower Upper
 178 100
 176 18.6 16.1 24.1
 179 15.5 12.9 19.3





#72

Anthracene

Concen: 2.410 ng

RT: 17.806 min Scan# 2459

Delta R.T. -0.007 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

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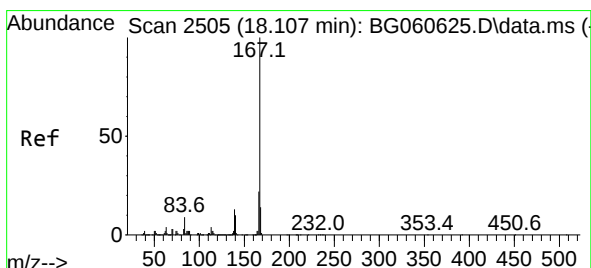
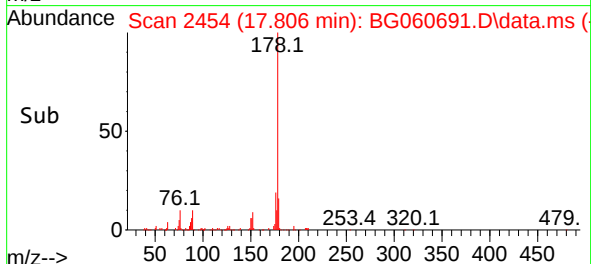
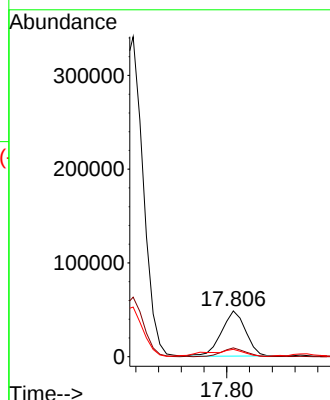
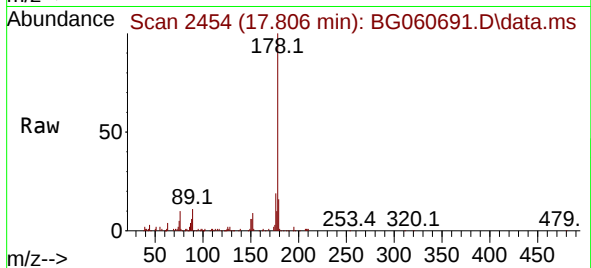
Tgt Ion:178 Resp: 71702

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.6
179	16.3	12.6	19.0

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Supervised By :Sohil Jodhani 03/21/2024



#73

Carbazole

Concen: 2.419 ng

RT: 18.082 min Scan# 2501

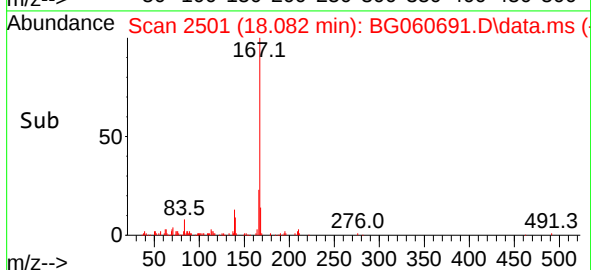
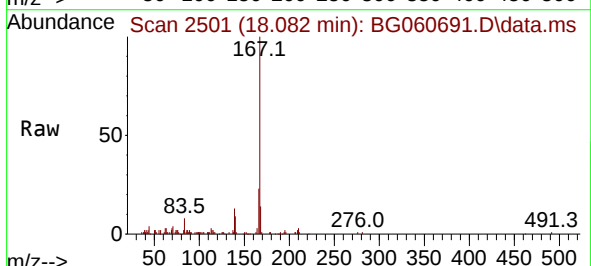
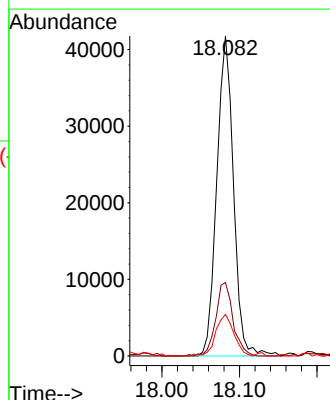
Delta R.T. -0.001 min

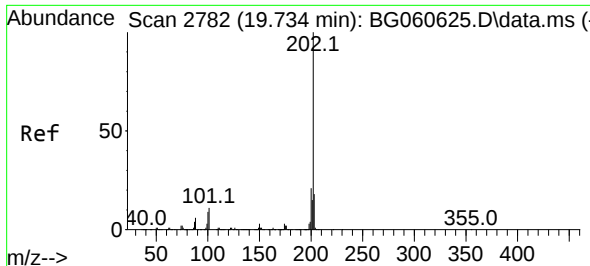
Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Tgt Ion:167 Resp: 62564

Ion	Ratio	Lower	Upper
167	100		
166	23.0	18.0	27.0
139	13.0	10.7	16.1





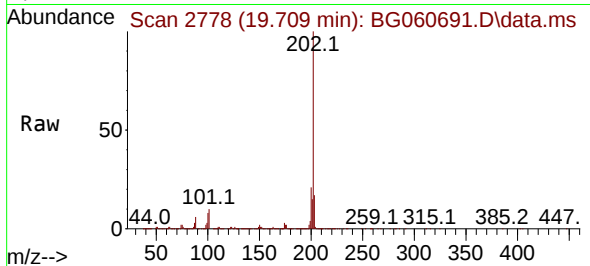
#75
Fluoranthene
Concen: 24.864 ng
RT: 19.709 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

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TRENCH-PIT

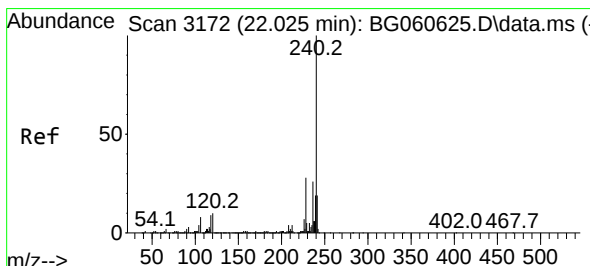
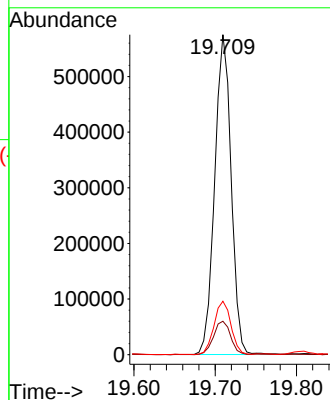
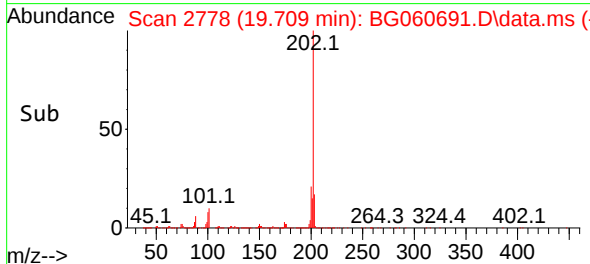


Tgt Ion:202 Resp: 809260
Ion Ratio Lower Upper
202 100
101 10.5 0.0 31.2
203 16.7 0.0 38.0

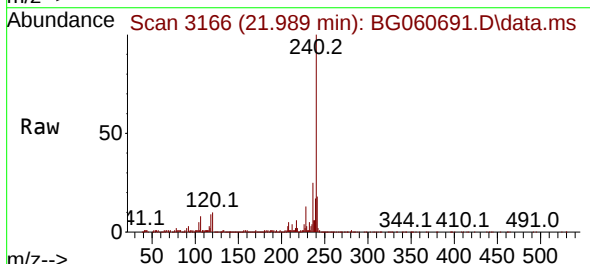
Manual Integrations

APPROVED

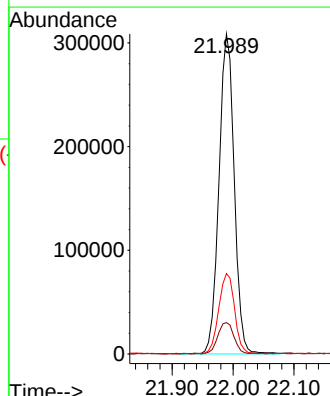
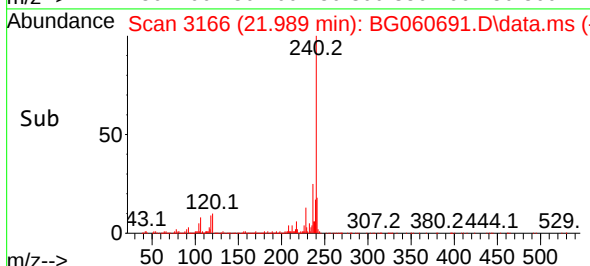
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024

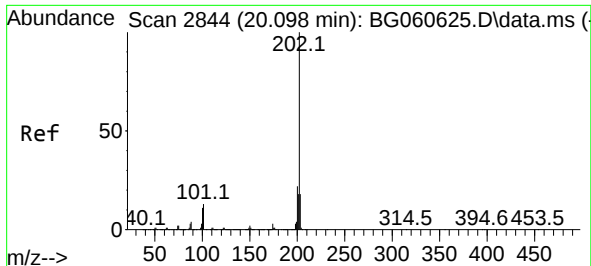


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.989 min Scan# 3166
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35



Tgt Ion:240 Resp: 537638
Ion Ratio Lower Upper
240 100
120 9.8 7.8 11.8
236 25.1 20.6 31.0





#78
Pyrene
Concen: 17.744 ng
RT: 20.074 min Scan# 2840
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

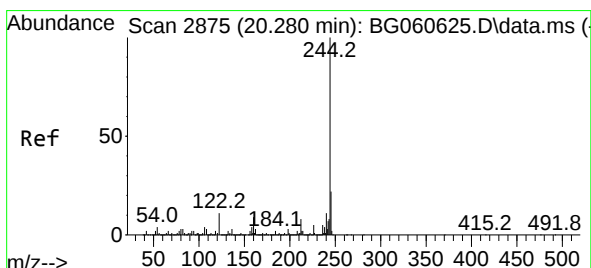
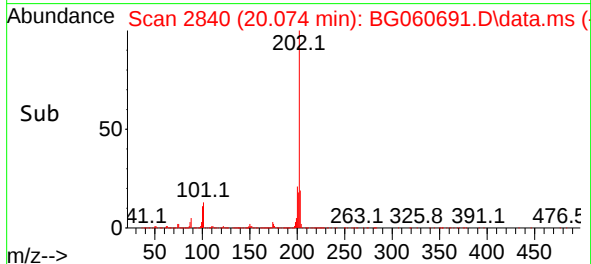
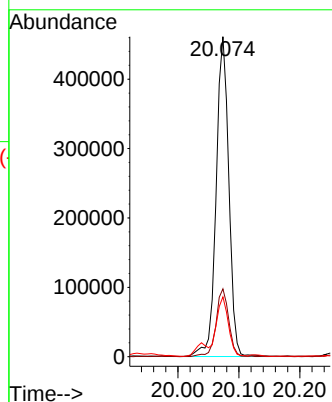
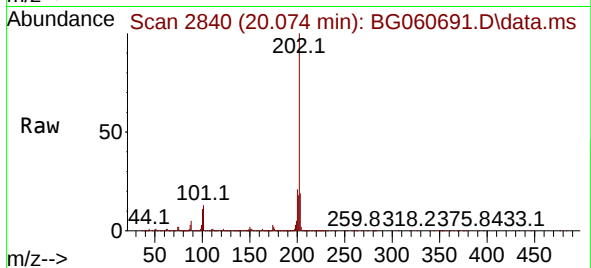
TRENCH-PIT

Tgt Ion:202 Resp: 66575
Ion Ratio Lower Upper
202 100
200 21.2 17.9 26.9
203 18.7 14.3 21.5

Manual Integrations

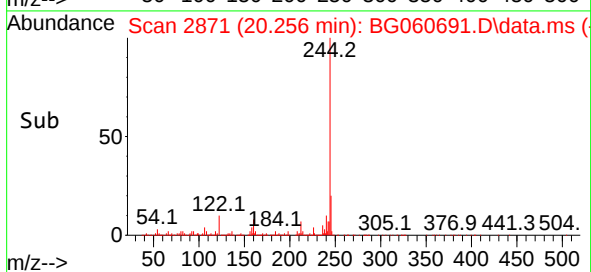
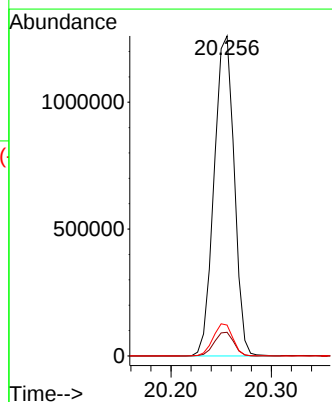
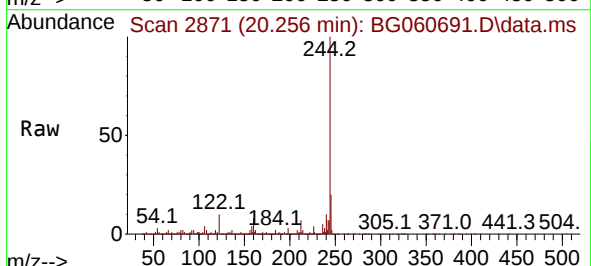
APPROVED

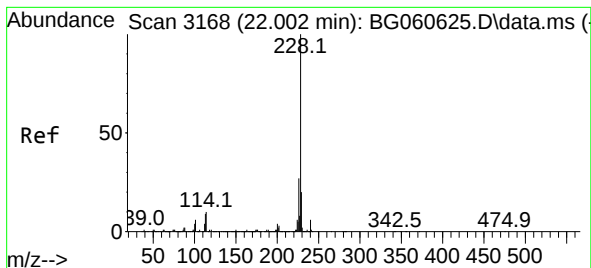
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#79
Terphenyl-d14
Concen: 58.890 ng
RT: 20.256 min Scan# 2871
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Tgt Ion:244 Resp: 1751634
Ion Ratio Lower Upper
244 100
212 7.4 6.6 9.8
122 9.6 8.5 12.7





#81

Benzo(a)anthracene

Concen: 8.904 ng

RT: 21.966 min Scan# 31

Delta R.T. -0.007 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

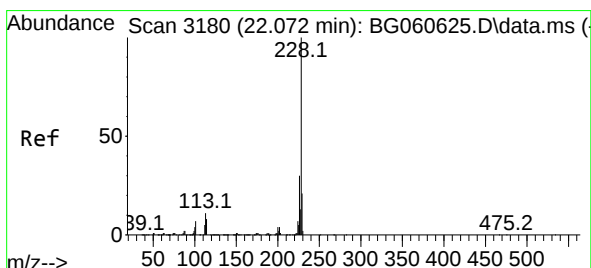
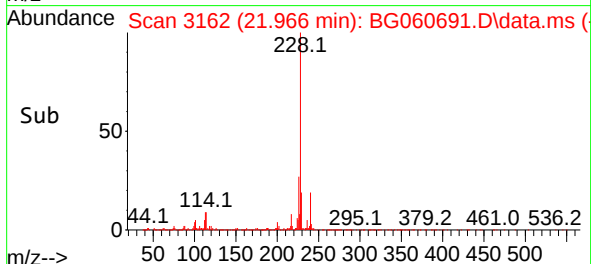
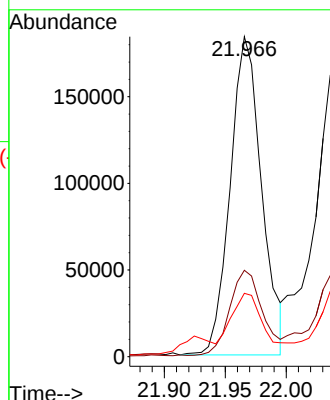
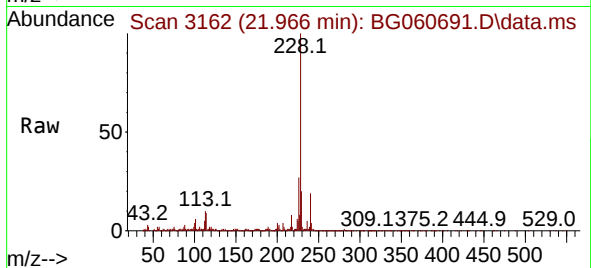
TRENCH-PIT

Tgt Ion:228 Resp: 329602
 Ion Ratio Lower Upper
 228 100
 226 27.0 21.8 32.8
 229 19.8 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
 Supervised By :Sohil Jodhani 03/21/2024



#83

Chrysene

Concen: 9.725 ng m

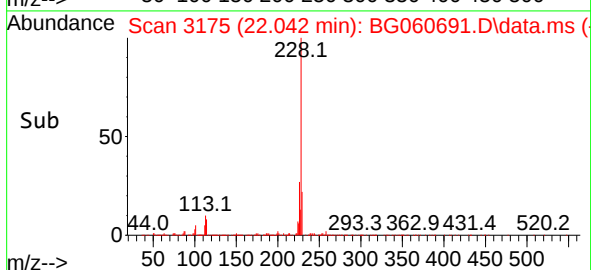
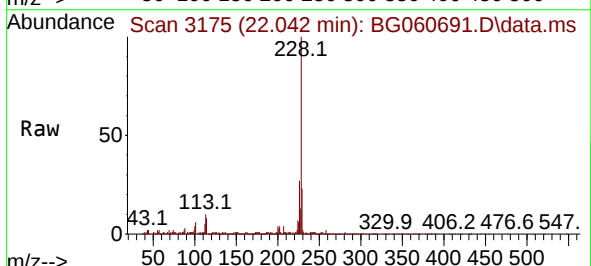
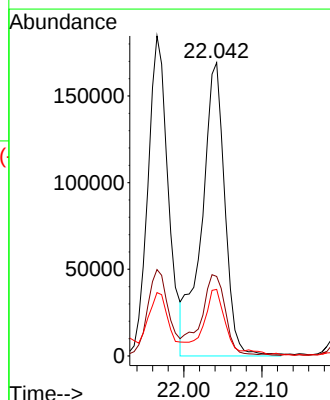
RT: 22.042 min Scan# 3175

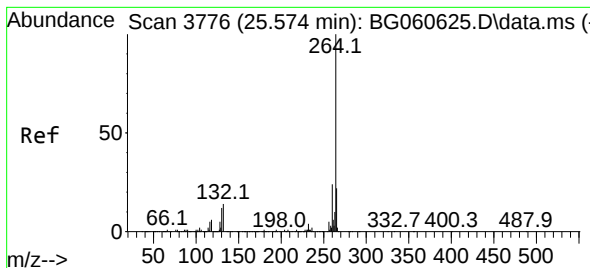
Delta R.T. -0.001 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Tgt Ion:228 Resp: 349547
 Ion Ratio Lower Upper
 228 100
 226 27.1 24.2 36.2
 229 22.7 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.532 min Scan# 31

Delta R.T. 0.005 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

TRENCH-PIT

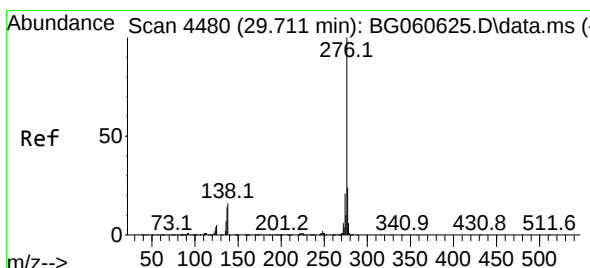
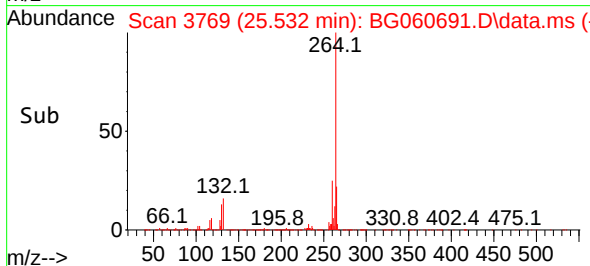
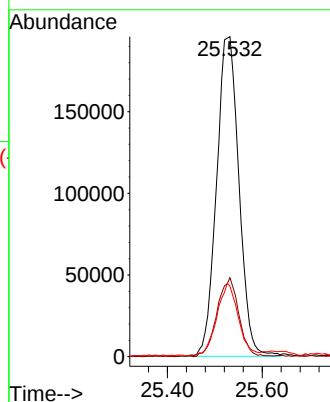
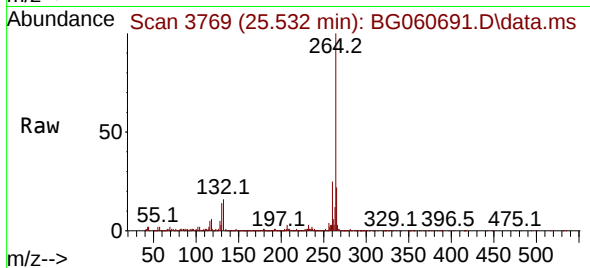
Tgt Ion:264 Resp: 64352

Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.4	29.2
265	22.1	18.1	27.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.075 ng

RT: 29.604 min Scan# 4462

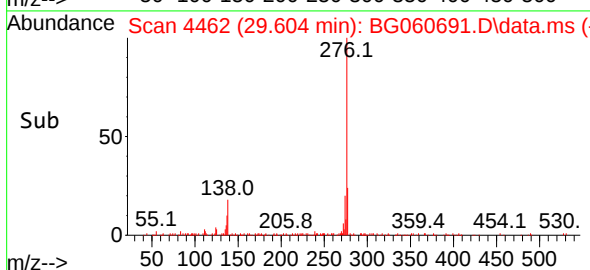
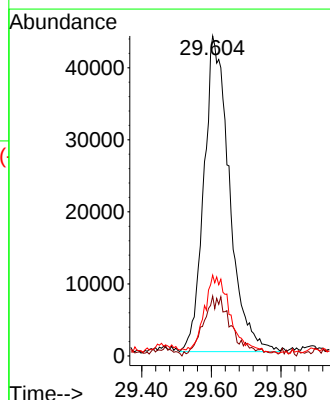
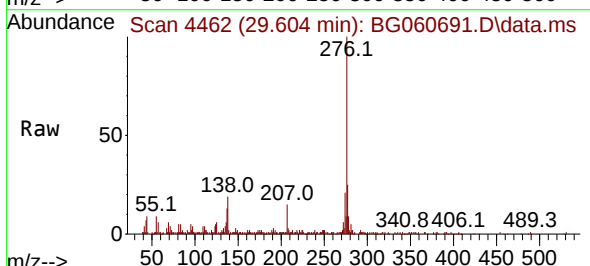
Delta R.T. -0.030 min

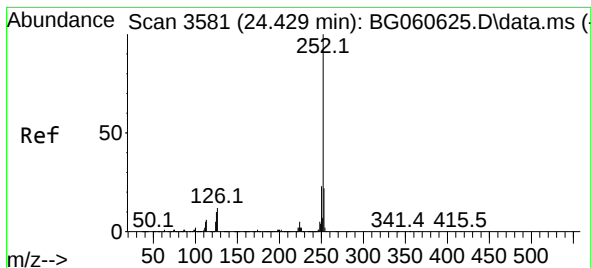
Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Tgt Ion:276 Resp: 222774

Ion	Ratio	Lower	Upper
276	100		
138	9.0	6.6	10.0
277	24.3	16.7	25.1





#88

Benzo(b)fluoranthene

Concen: 11.721 ng

RT: 24.386 min Scan# 3

Delta R.T. -0.001 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

TRENCH-PIT

Tgt Ion:252 Resp: 41496

Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

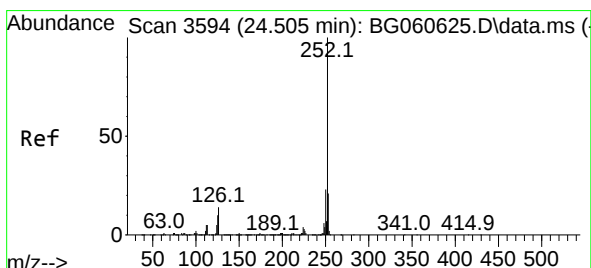
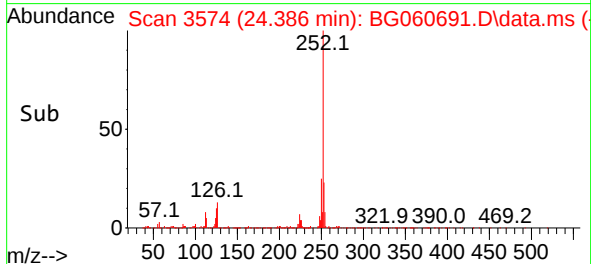
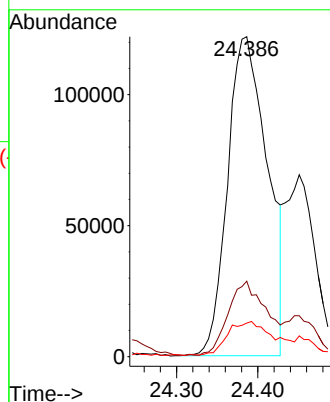
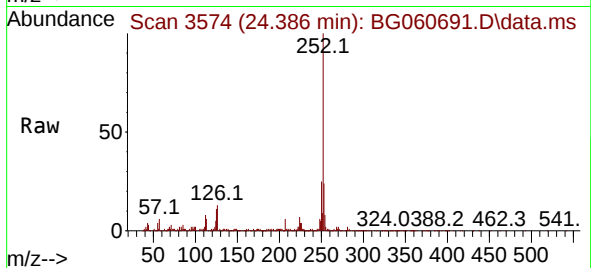
125 10.5 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024

Supervised By :Sohil Jodhani 03/21/2024



#89

Benzo(k)fluoranthene

Concen: 4.704 ng m

RT: 24.451 min Scan# 3585

Delta R.T. -0.007 min

Lab File: BG060691.D

Acq: 20 Mar 2024 14:35

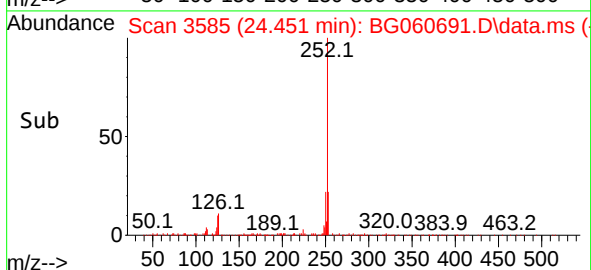
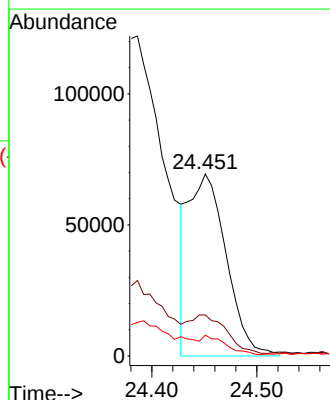
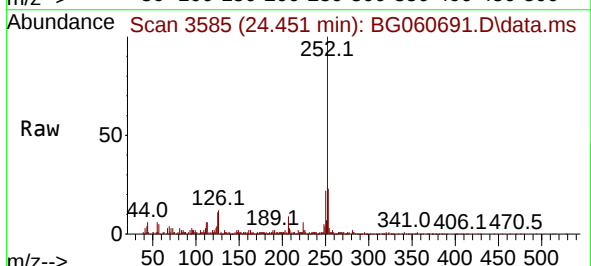
Tgt Ion:252 Resp: 174967

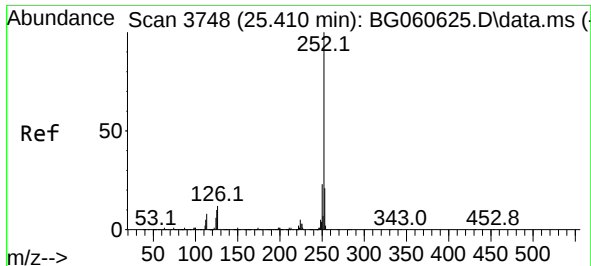
Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

125 11.4 8.0 12.0





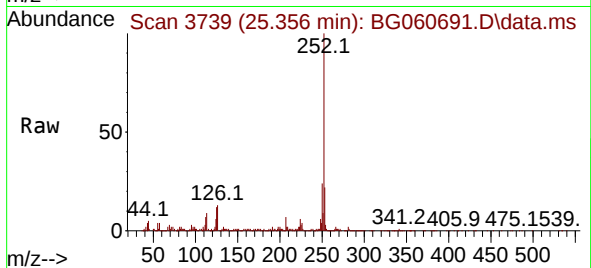
#90
Benzo(a)pyrene
Concen: 8.215 ng
RT: 25.356 min Scan# 31
Delta R.T. -0.001 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Instrument :

BNA_G

ClientSampleId :

TRENCH-PIT

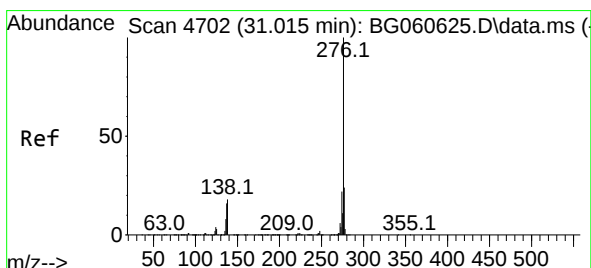
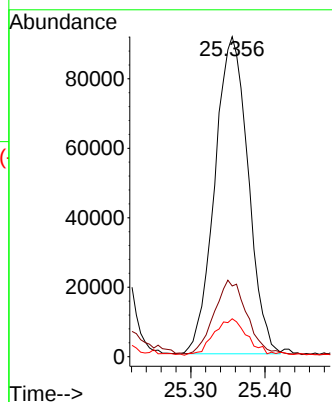
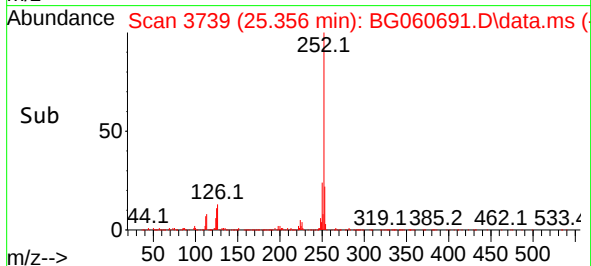


Tgt Ion:252 Resp: 28514
Ion Ratio Lower Upper
252 100
253 22.1 17.0 25.6
125 11.8 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#92
Benzo(g,h,i)perylene
Concen: 5.917 ng
RT: 30.920 min Scan# 4686
Delta R.T. -0.018 min
Lab File: BG060691.D
Acq: 20 Mar 2024 14:35

Tgt Ion:276 Resp: 213475
Ion Ratio Lower Upper
276 100
277 22.4 19.0 28.4
138 19.1 14.4 21.6

