

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012523\
 Data File : BG056425.D
 Acq On : 25 Jan 2023 15:16
 Operator : CG/JU
 Sample : 01271-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SU-3-012423

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/26/2023
 Supervised By : Jagrut Upadhyay 01/26/2023

Quant Time: Jan 26 01:11:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 04:54:56 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.296	152	41079	20.000	ng	0.00
21) Naphthalene-d8	11.128	136	158713	20.000	ng	0.00
39) Acenaphthene-d10	14.906	164	121005	20.000	ng	0.00
64) Phenanthrene-d10	17.644	188	276887	20.000	ng	0.00
76) Chrysene-d12	21.939	240	254095	20.000	ng	# 0.00
86) Perylene-d12	25.376	264	276563	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.817	112	224931	97.766	ng	0.00
7) Phenol-d6	7.438	99	314833	89.106	ng	0.00
23) Nitrobenzene-d5	9.471	82	166629	53.703	ng	0.00
42) 2,4,6-Tribromophenol	16.392	330	140716	91.821	ng	0.00
45) 2-Fluorobiphenyl	13.531	172	528895	60.357	ng	0.00
79) Terphenyl-d14	20.223	244	816028	57.520	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.175	128	57979	6.941	ng	99
37) 2-Methylnaphthalene	12.755	142	24348	3.452	ng	96
38) 1-Methylnaphthalene	12.973	142	16174	2.470	ng	95
52) Acenaphthene	14.971	154	38140	5.268	ng	100
55) Dibenzofuran	15.300	168	56644	4.728	ng	99
58) Fluorene	15.952	166	82238	8.535	ng	97
71) Phenanthrene	17.691	178	729916	50.868	ng	99
72) Anthracene	17.779	178	223793	15.119	ng	99
73) Carbazole	18.043	167	43327	3.482	ng	96
75) Fluoranthene	19.683	202	1198551	64.034	ng	99
78) Pyrene	20.047	202	998133	55.731	ng	98
81) Benzo(a)anthracene	21.921	228	570468	31.965	ng	99
83) Chrysene	21.986	228	459049	27.460	ng	96
87) Indeno(1,2,3-cd)pyrene	29.324	276	276024	13.723	ng	# 97
88) Benzo(b)fluoranthene	24.283	252	596830	33.965	ng	98
89) Benzo(k)fluoranthene	24.342	252	215901m	12.339	ng	
90) Benzo(a)pyrene	25.211	252	445377	25.987	ng	# 97
91) Dibenzo(a,h)anthracene	29.371	278	76752m	4.551	ng	
92) Benzo(g,h,i)perylene	30.576	276	243248	14.875	ng	98

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

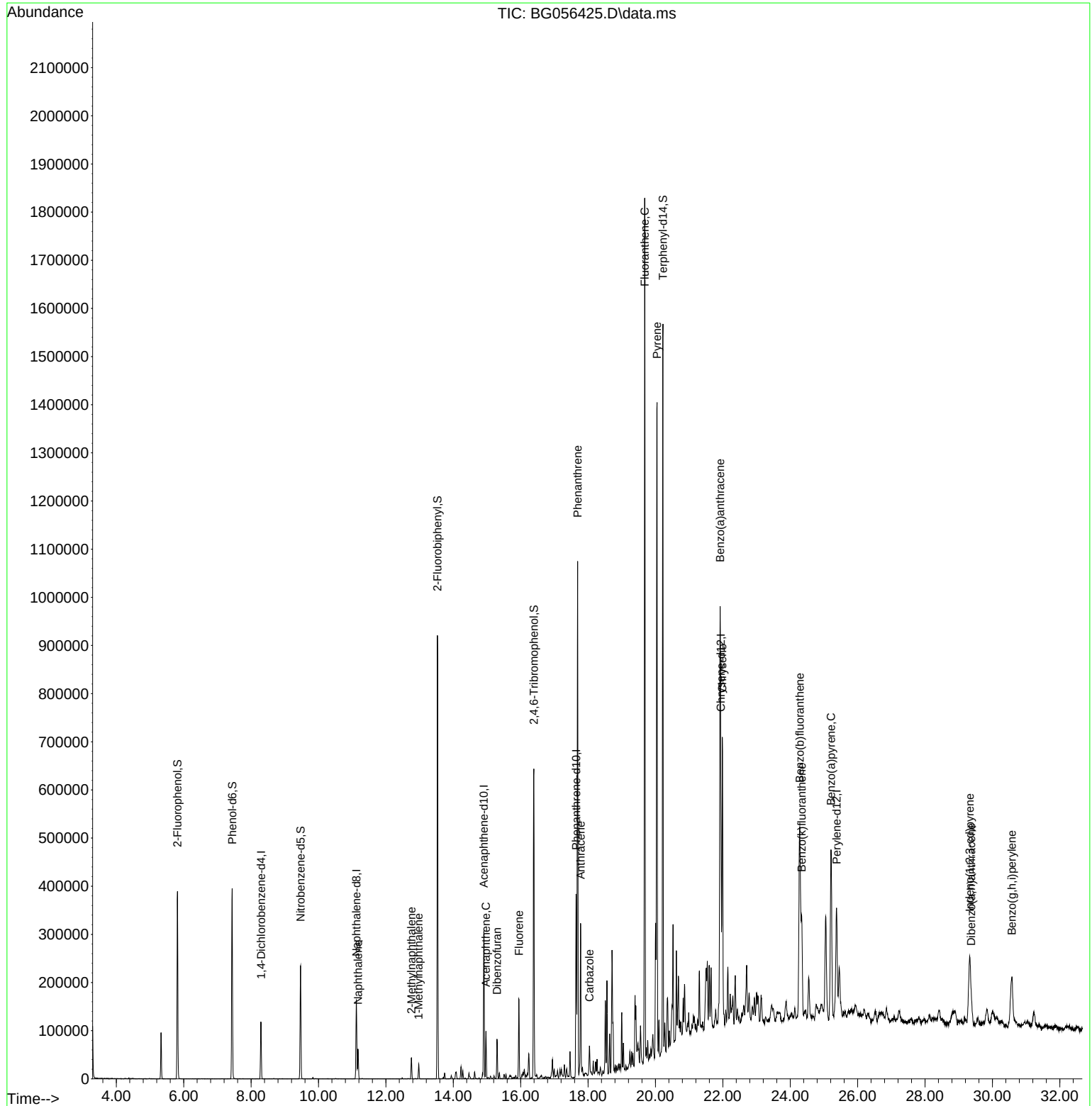
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012523\
Data File : BG056425.D
Acq On : 25 Jan 2023 15:16
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Sample : 01271-01
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ALS Vial : 7 Sample Multiplier: 1

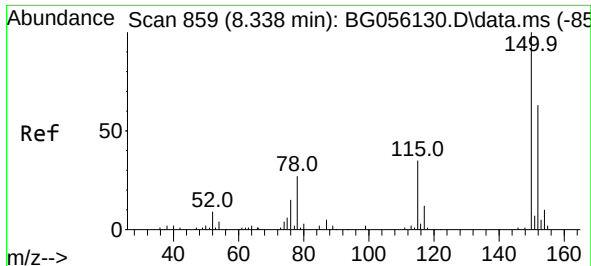
Instrument :
BNA_G
ClientSampleId :
SU-3-012423

Quant Time: Jan 26 01:11:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 04:54:56 2023
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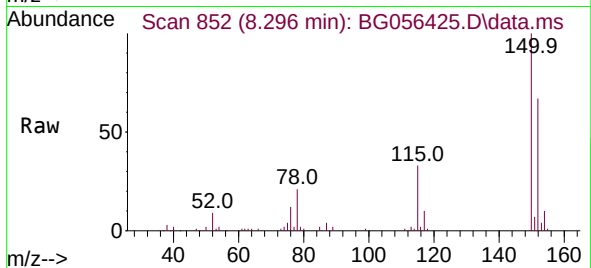
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.296 min Scan# 81
Delta R.T. 0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

SU-3-012423

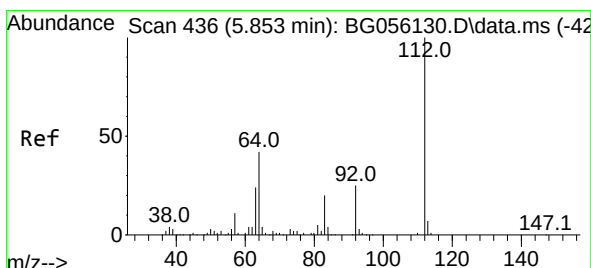
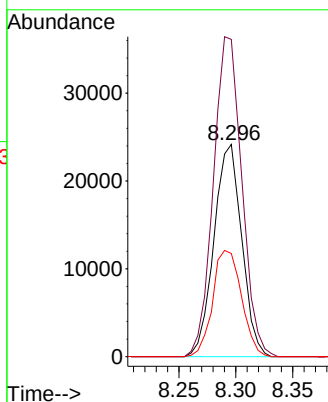
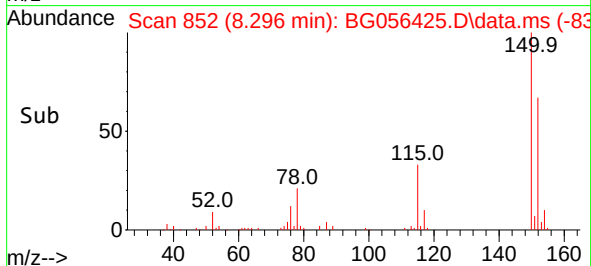


Tgt Ion:152 Resp: 41079
Ion Ratio Lower Upper
152 100
150 149.5 127.9 191.9
115 48.6 44.2 66.2

Manual Integrations

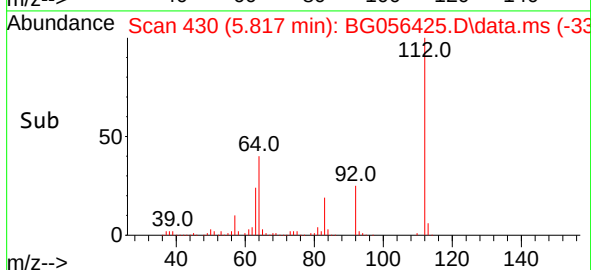
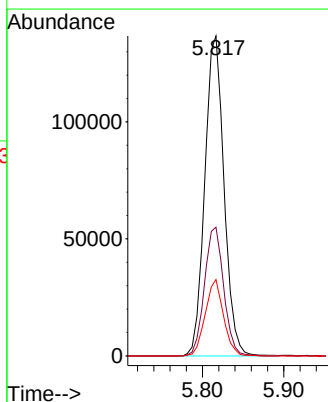
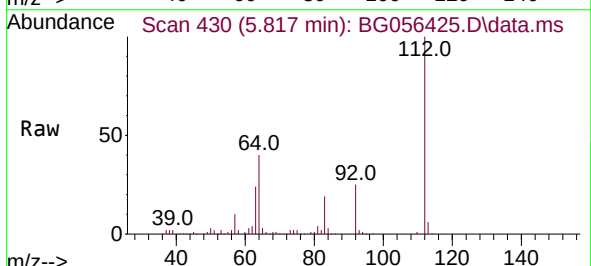
APPROVED

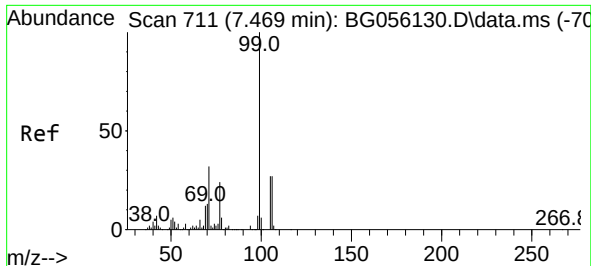
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#5
2-Fluorophenol
Concen: 97.766 ng
RT: 5.817 min Scan# 430
Delta R.T. 0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

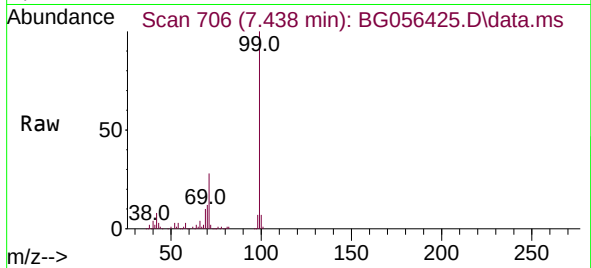
Tgt Ion:112 Resp: 224931
Ion Ratio Lower Upper
112 100
64 40.2 33.3 49.9
63 23.9 19.0 28.4





#7
Phenol-d6
Concen: 89.106 ng
RT: 7.438 min Scan# 70
Delta R.T. 0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

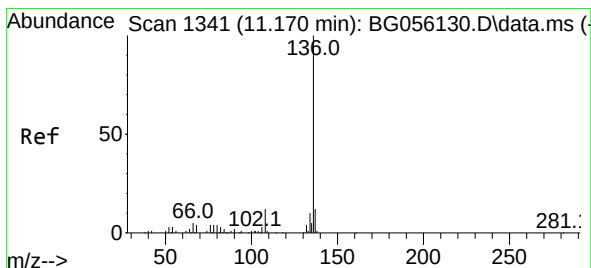
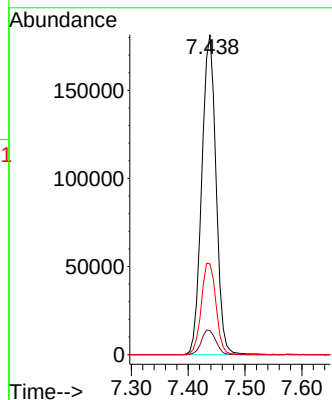
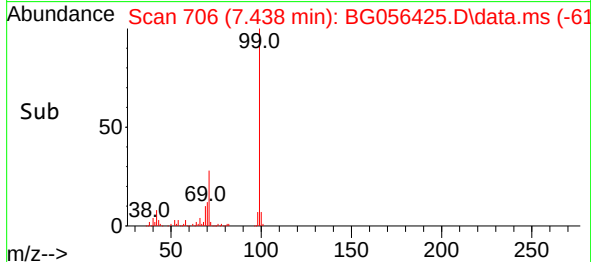
Instrument :
BNA_G
ClientSampleId :
SU-3-012423



Tgt Ion: 99 Resp: 31483
Ion Ratio Lower Upper
99 100
42 7.5 5.9 8.9
71 28.4 25.4 38.2

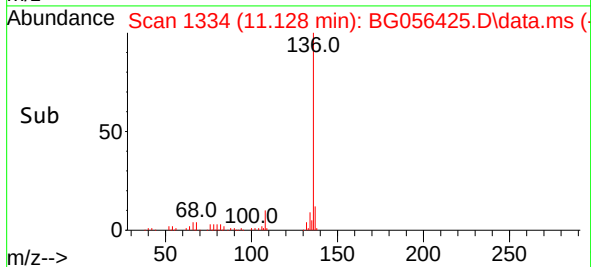
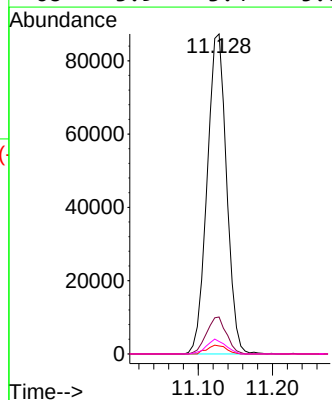
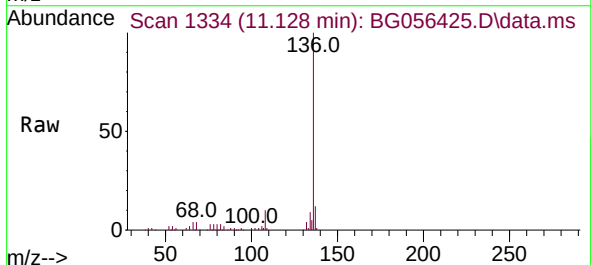
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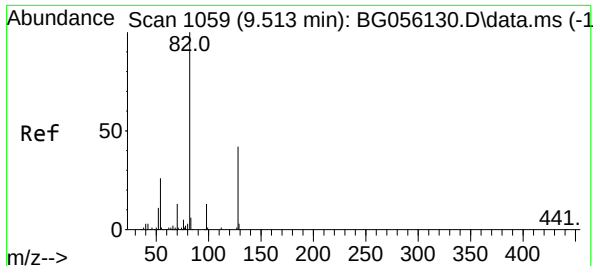
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.128 min Scan# 1334
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Tgt Ion:136 Resp: 158713
Ion Ratio Lower Upper
136 100
137 11.5 9.4 14.0
54 2.5 2.2 3.2
68 3.9 3.4 5.0





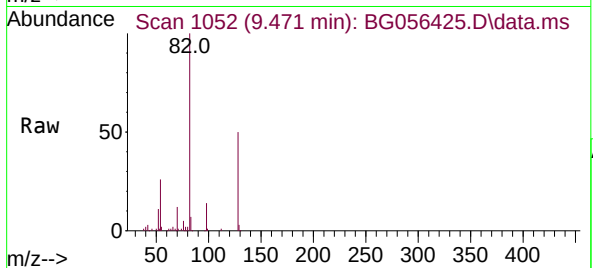
#23
Nitrobenzene-d5
Concen: 53.703 ng
RT: 9.471 min Scan# 1052
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

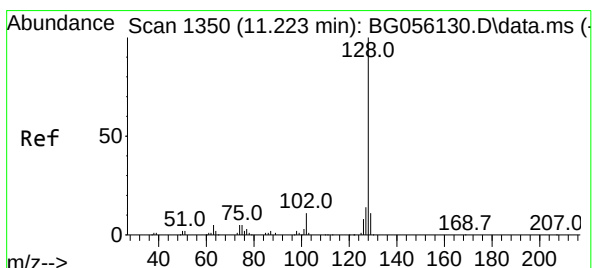
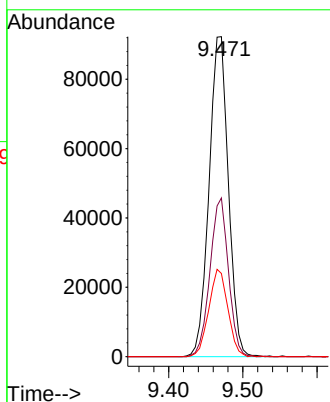
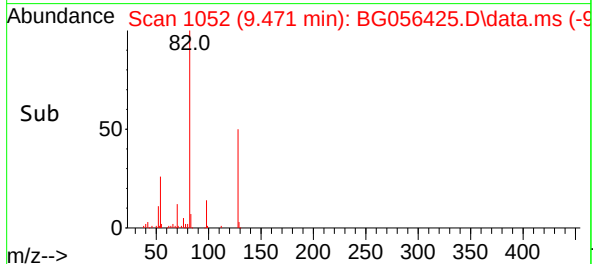
SU-3-012423



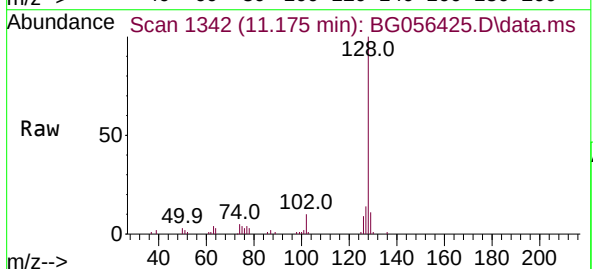
Tgt Ion: 82 Resp: 166629
Ion Ratio Lower Upper
82 100
128 49.6 33.4 50.2
54 26.0 20.3 30.5

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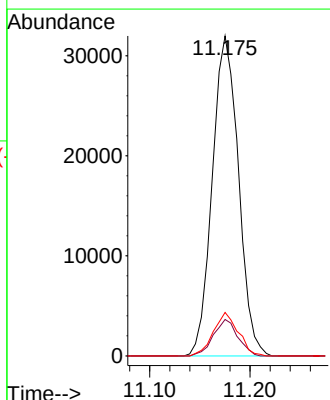
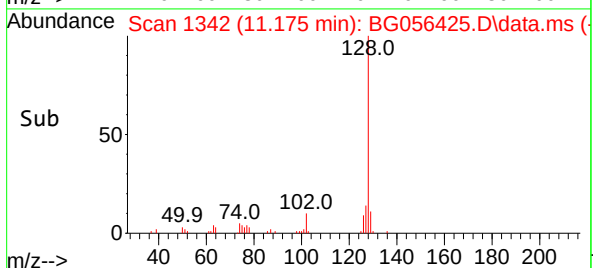
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

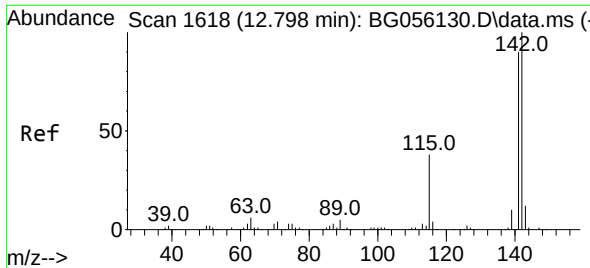


#31
Naphthalene
Concen: 6.941 ng
RT: 11.175 min Scan# 1342
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16



Tgt Ion:128 Resp: 57979
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.6 11.2 16.8





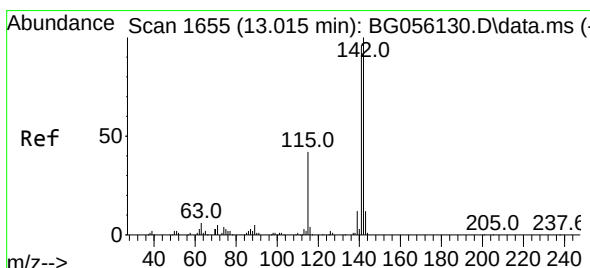
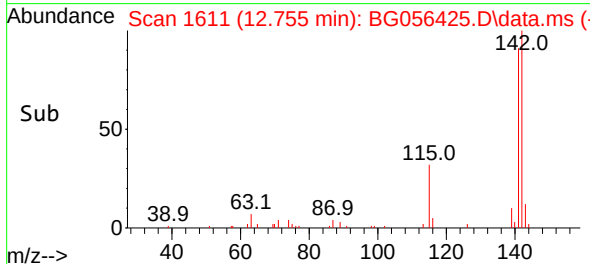
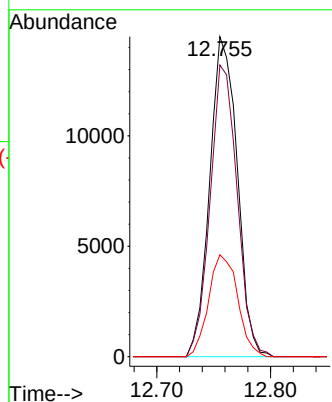
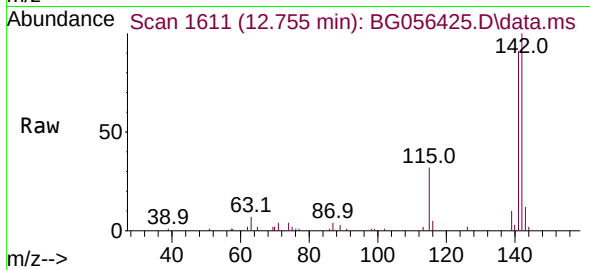
#37
2-Methylnaphthalene
Concen: 3.452 ng
RT: 12.755 min Scan# 1611
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :
BNA_G
ClientSampleId :
SU-3-012423

Tgt Ion:142 Resp: 24348
Ion Ratio Lower Upper
142 100
141 91.1 72.2 108.4
115 31.8 30.7 46.1

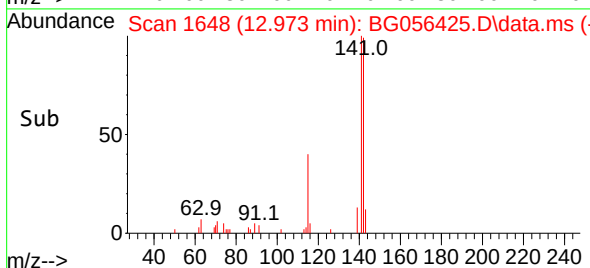
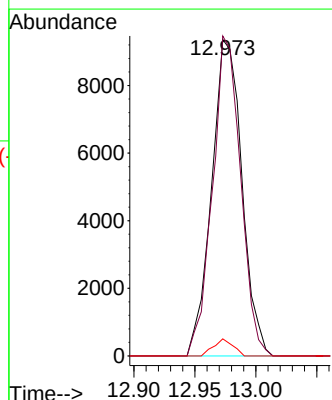
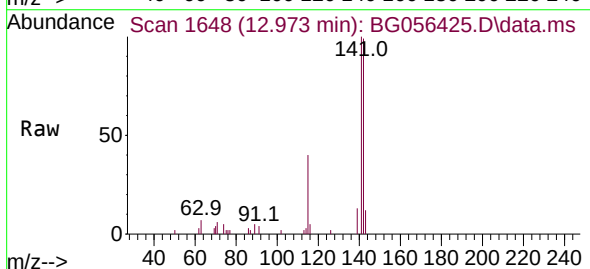
Manual Integrations
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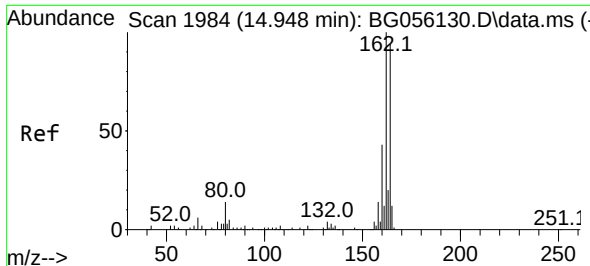
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#38
1-Methylnaphthalene
Concen: 2.470 ng
RT: 12.973 min Scan# 1648
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Tgt Ion:142 Resp: 16174
Ion Ratio Lower Upper
142 100
141 101.2 77.0 115.6
116 5.4 3.6 5.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.906 min Scan# 19

Delta R.T. -0.009 min

Lab File: BG056425.D

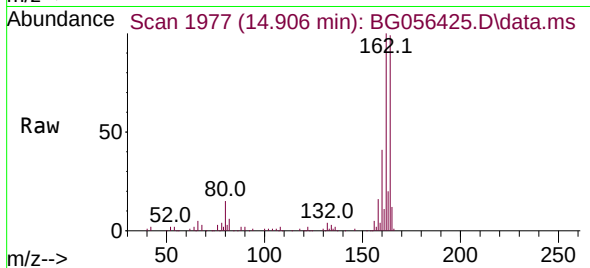
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

SU-3-012423



Tgt Ion:164 Resp: 121005

Ion Ratio Lower Upper

164 100

162 101.5 84.7 127.1

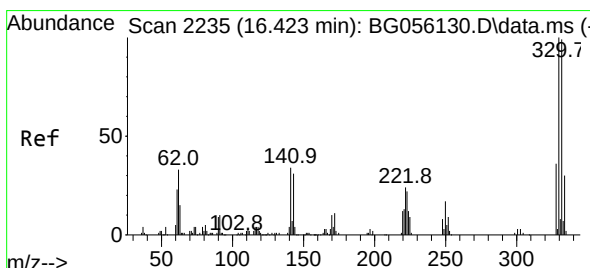
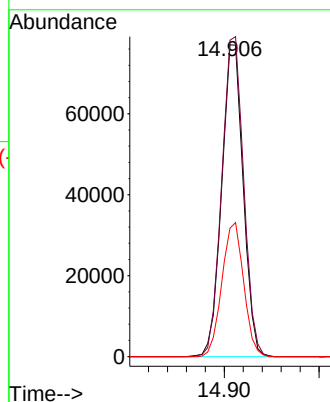
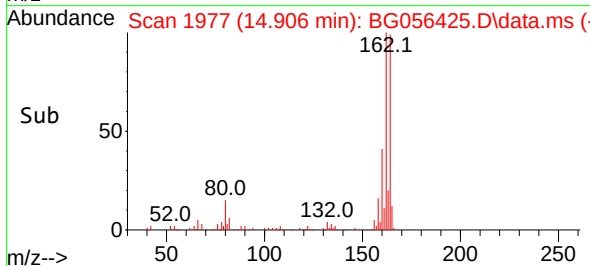
160 41.2 36.3 54.5

Manual Integrations

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Supervised By :Jagrut Upadhyay 01/26/2023



#42

2,4,6-Tribromophenol

Concen: 91.821 ng

RT: 16.392 min Scan# 2230

Delta R.T. -0.003 min

Lab File: BG056425.D

Acq: 25 Jan 2023 15:16

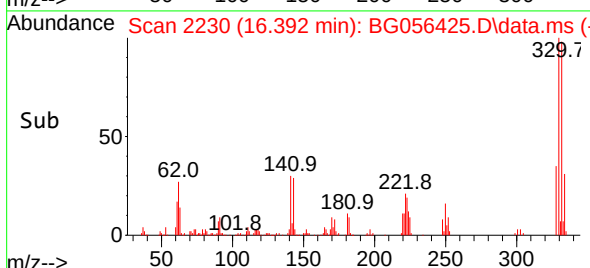
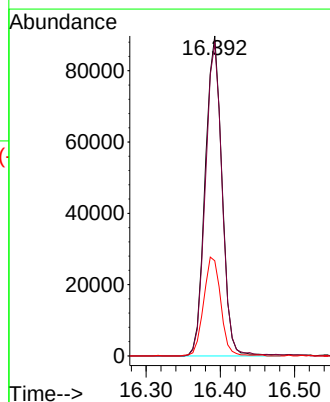
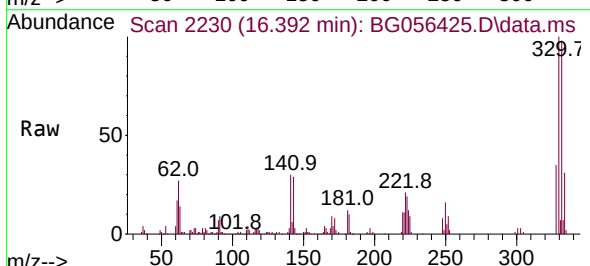
Tgt Ion:330 Resp: 140716

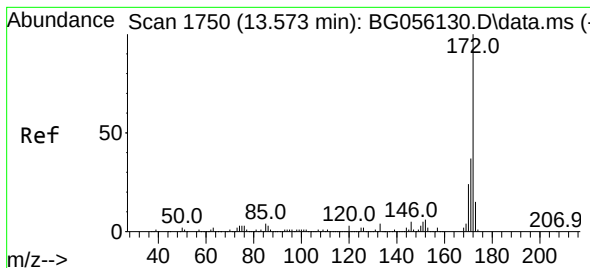
Ion Ratio Lower Upper

330 100

332 97.1 77.3 115.9

141 31.5 27.9 41.9





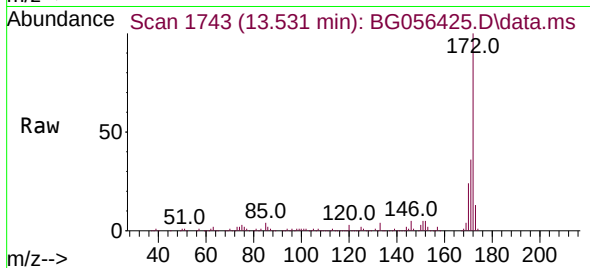
#45
2-Fluorobiphenyl
Concen: 60.357 ng
RT: 13.531 min Scan# 1743
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

SU-3-012423

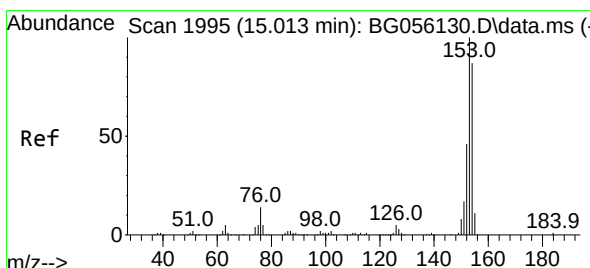
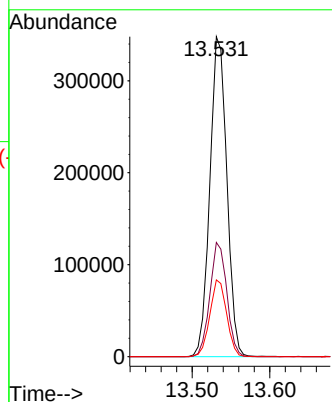
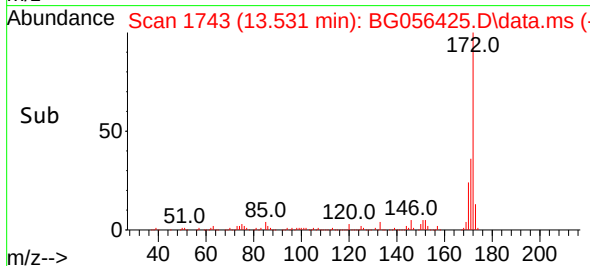


Tgt Ion:172 Resp: 528895
Ion Ratio Lower Upper
172 100
171 35.7 29.6 44.4
170 24.0 19.4 29.2

Manual Integrations

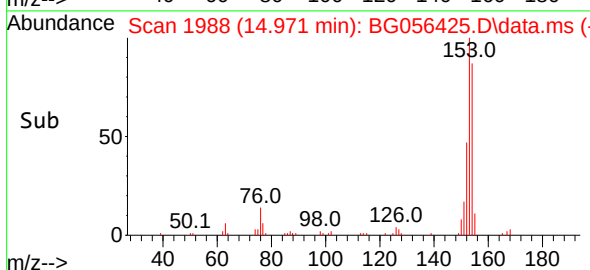
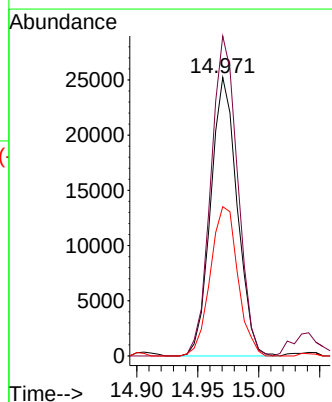
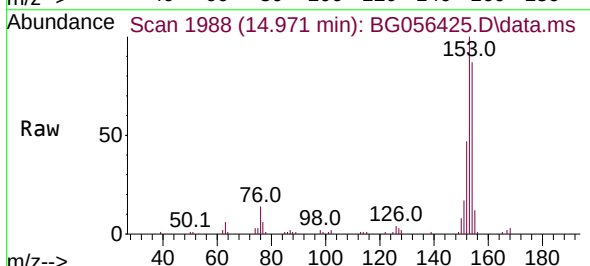
APPROVED

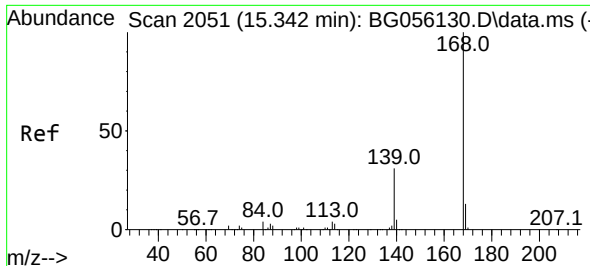
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#52
Acenaphthene
Concen: 5.268 ng
RT: 14.971 min Scan# 1988
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

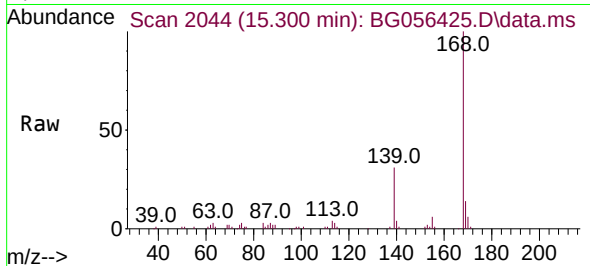
Tgt Ion:154 Resp: 38140
Ion Ratio Lower Upper
154 100
153 114.9 92.0 138.0
152 53.6 42.5 63.7





#55
Dibenzenofuran
Concen: 4.728 ng
RT: 15.300 min Scan# 2051
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

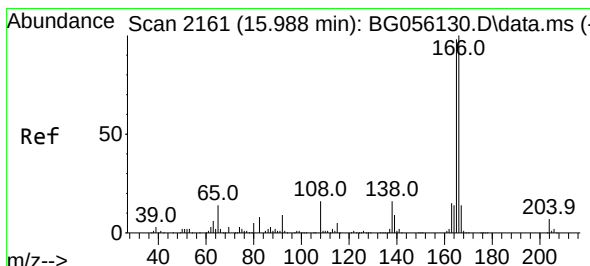
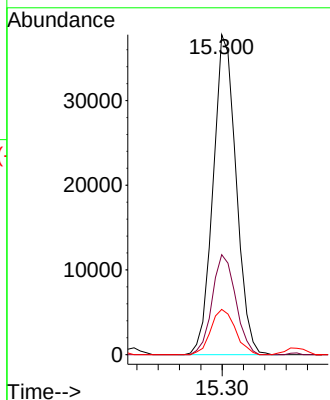
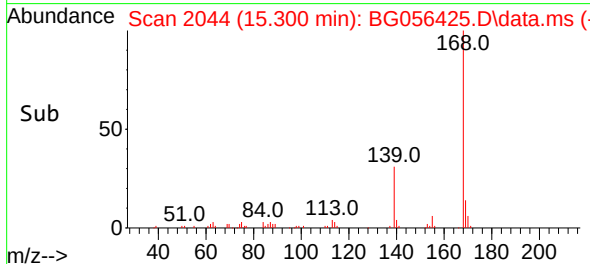
Instrument :
BNA_G
ClientSampleId :
SU-3-012423



Tgt Ion:168 Resp: 56644
Ion Ratio Lower Upper
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139 31.2 24.7 37.1
169 14.1 10.3 15.5

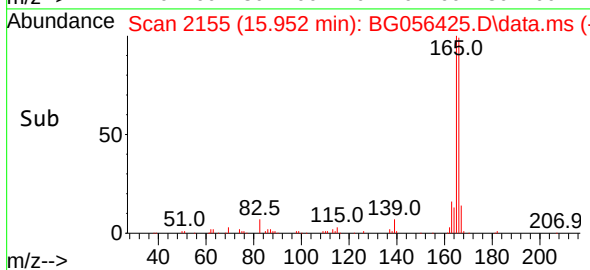
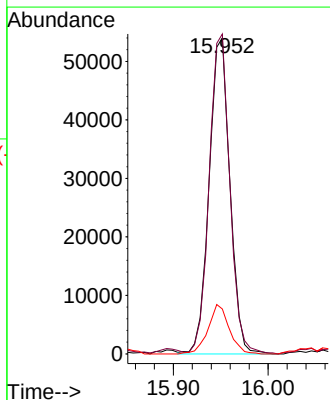
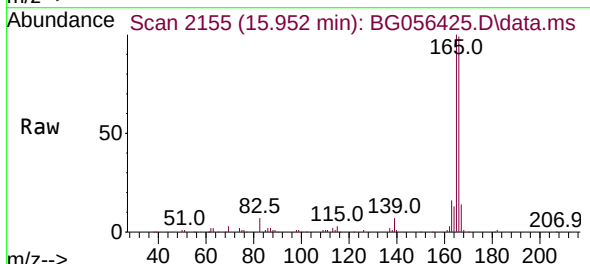
Manual Integrations
APPROVED

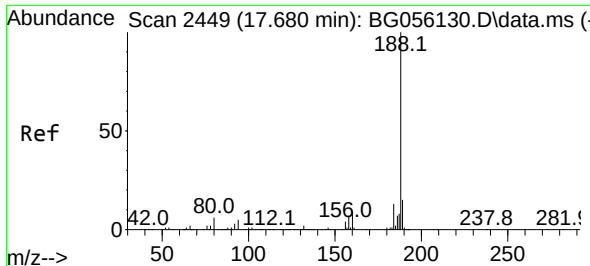
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#58
Fluorene
Concen: 8.535 ng
RT: 15.952 min Scan# 2155
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Tgt Ion:166 Resp: 82238
Ion Ratio Lower Upper
166 100
165 101.2 78.6 118.0
167 14.2 11.1 16.7





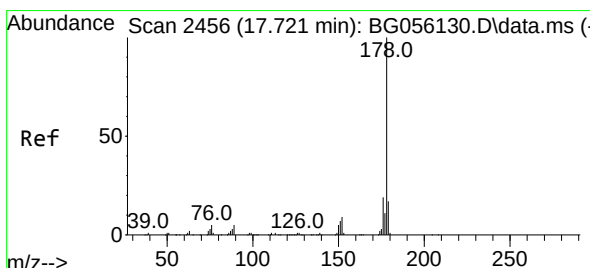
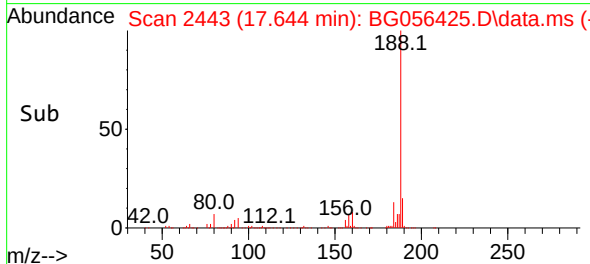
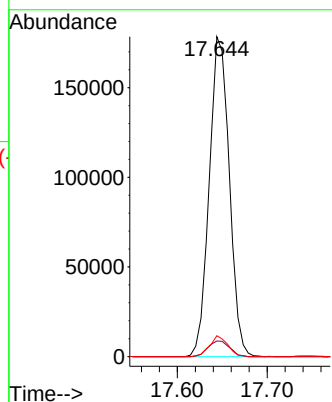
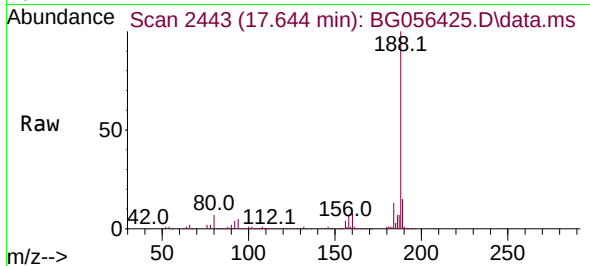
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.644 min Scan# 2443
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :
BNA_G
ClientSampleId :
SU-3-012423

Tgt Ion:188 Resp: 27688
Ion Ratio Lower Upper
188 100
94 4.9 4.2 6.2
80 6.5 5.0 7.4

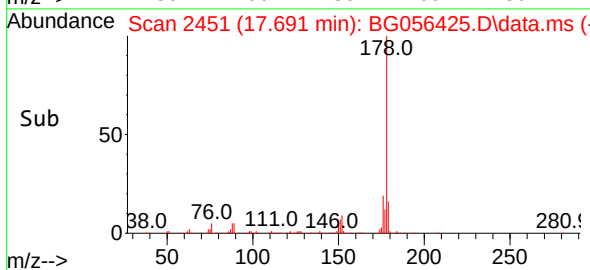
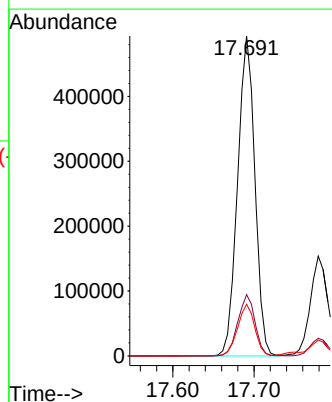
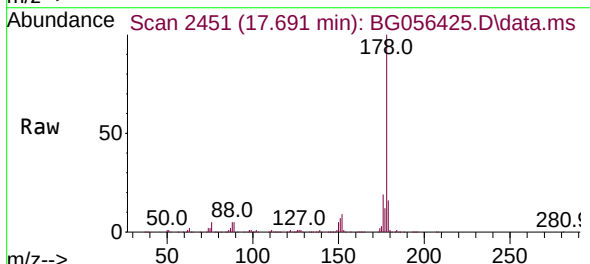
Manual Integrations
APPROVED

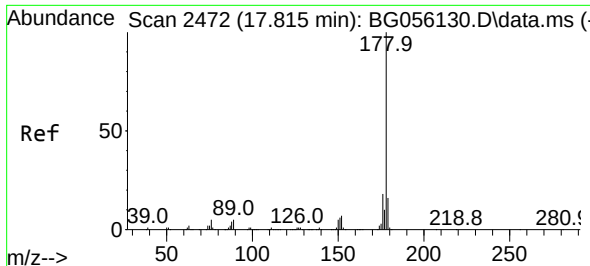
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#71
Phenanthrene
Concen: 50.868 ng
RT: 17.691 min Scan# 2451
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

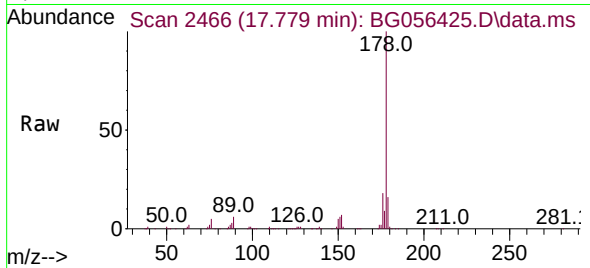
Tgt Ion:178 Resp: 729916
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 16.1 13.6 20.4





#72
 Anthracene
 Concen: 15.119 ng
 RT: 17.779 min Scan# 2472
 Delta R.T. -0.009 min
 Lab File: BG056425.D
 Acq: 25 Jan 2023 15:16

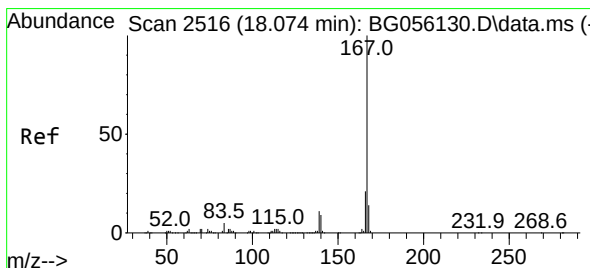
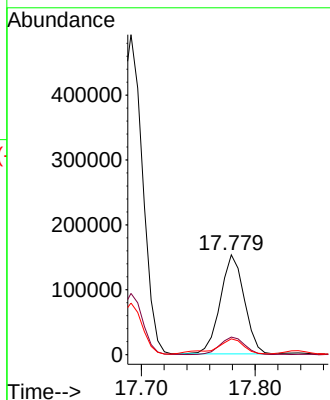
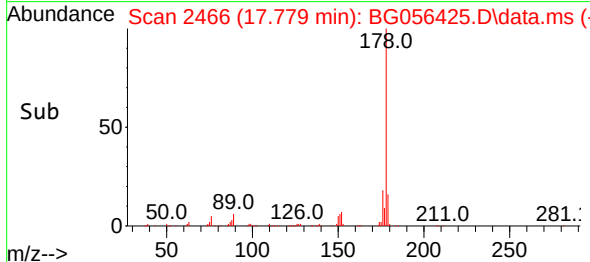
Instrument :
 BNA_G
 ClientSampleId :
 SU-3-012423



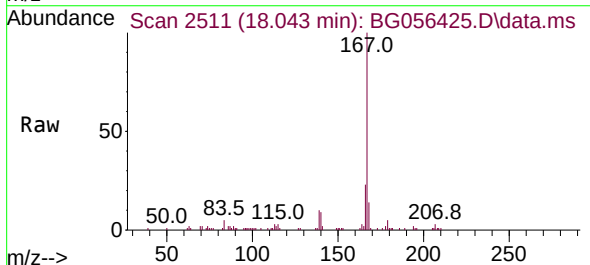
Tgt Ion:178 Resp: 223793
 Ion Ratio Lower Upper
 178 100
 176 17.6 14.6 22.0
 179 15.7 12.7 19.1

Manual Integrations
 APPROVED

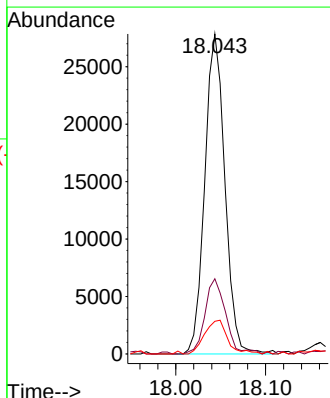
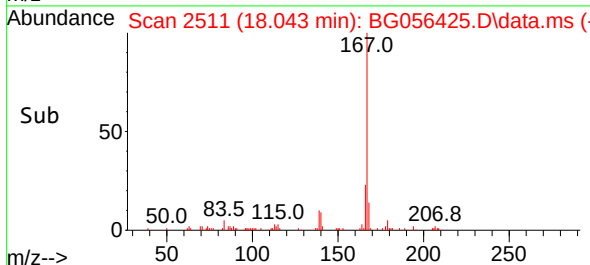
Reviewed By :Christian Giraldo 01/26/2023
 Supervised By :Jagrut Upadhyay 01/26/2023

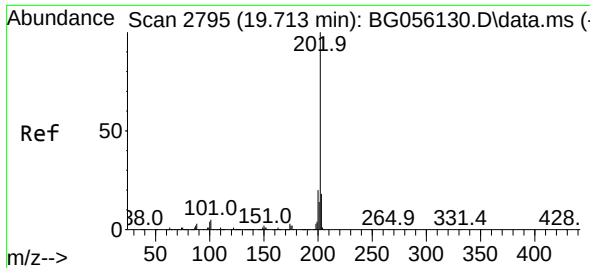


#73
 Carbazole
 Concen: 3.482 ng
 RT: 18.043 min Scan# 2511
 Delta R.T. -0.009 min
 Lab File: BG056425.D
 Acq: 25 Jan 2023 15:16



Tgt Ion:167 Resp: 43327
 Ion Ratio Lower Upper
 167 100
 166 23.5 16.8 25.2
 139 10.2 8.9 13.3





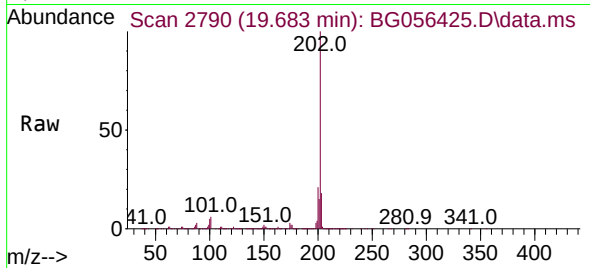
#75
Fluoranthene
Concen: 64.034 ng
RT: 19.683 min Scan# 2119
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

SU-3-012423

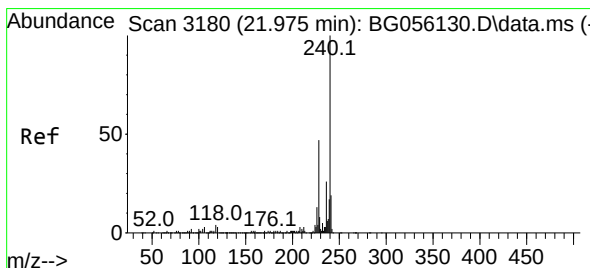
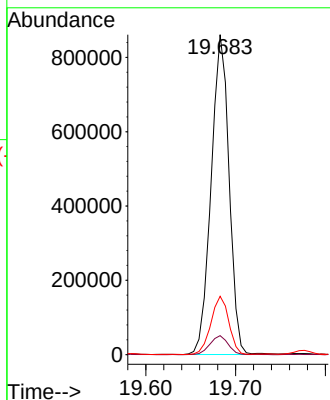
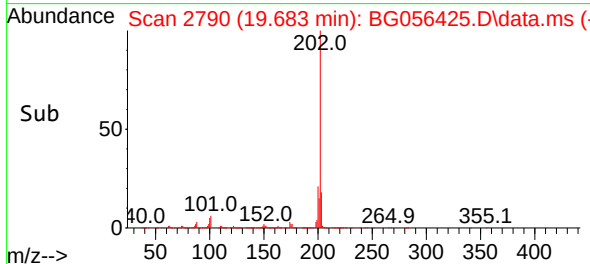


Tgt Ion:202 Resp: 119855
Ion Ratio Lower Upper
202 100
101 5.9 0.0 25.0
203 18.2 0.0 38.0

Manual Integrations

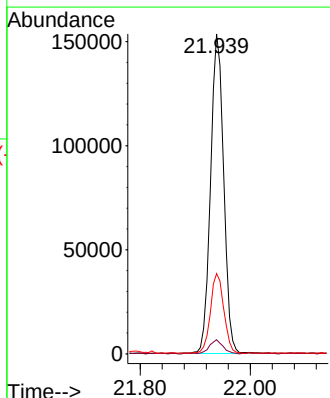
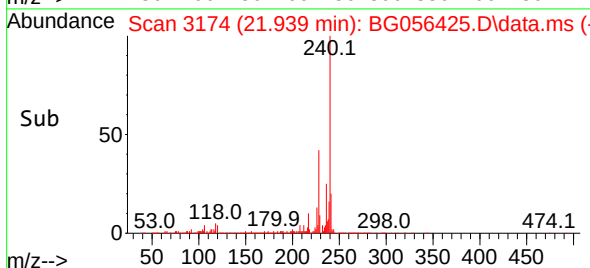
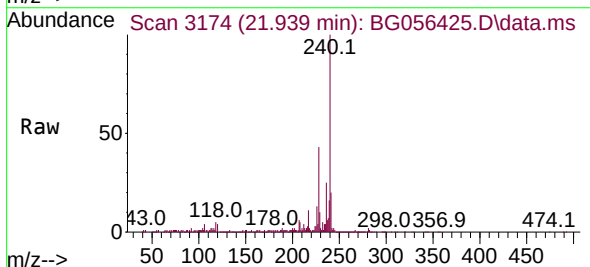
APPROVED

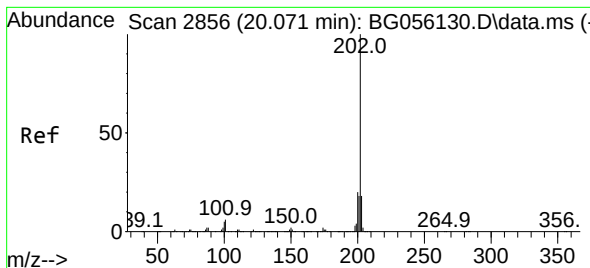
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.939 min Scan# 3174
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Tgt Ion:240 Resp: 254095
Ion Ratio Lower Upper
240 100
120 4.4 2.6 4.0#
236 25.1 20.8 31.2





#78

Pyrene

Concen: 55.731 ng

RT: 20.047 min Scan# 2856

Delta R.T. 0.003 min

Lab File: BG056425.D

Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

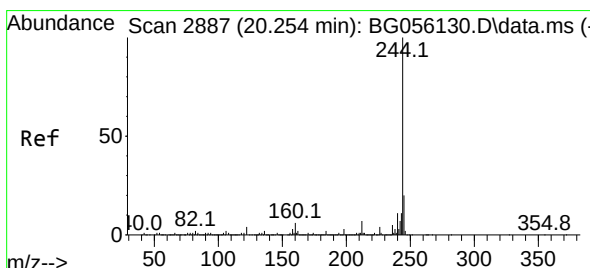
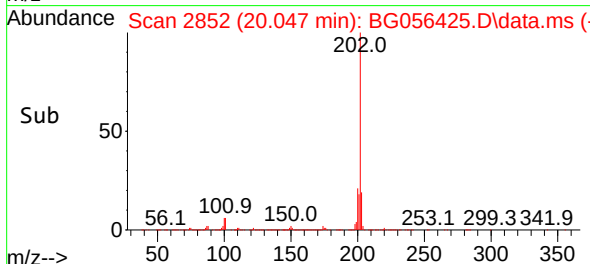
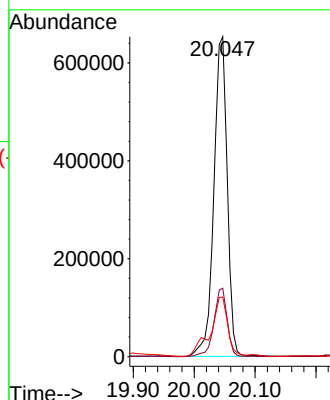
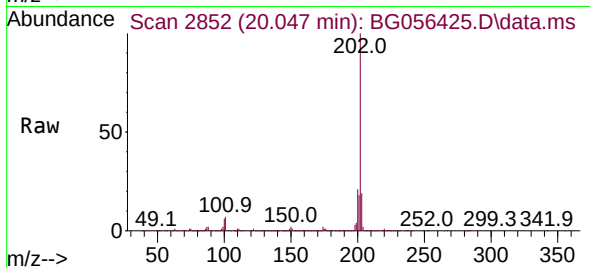
SU-3-012423

Tgt Ion:202	Resp: 998133
Ion Ratio	Lower Upper
202 100	
200 21.4	16.4 24.6
203 18.6	14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#79

Terphenyl-d14

Concen: 57.520 ng

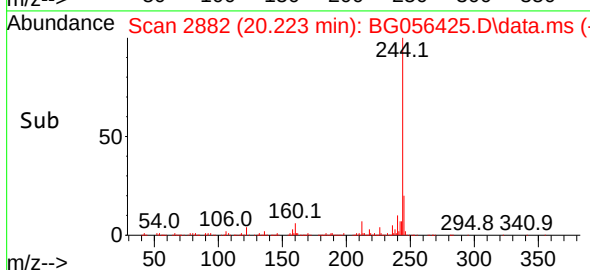
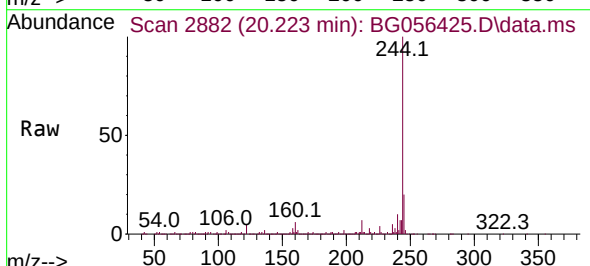
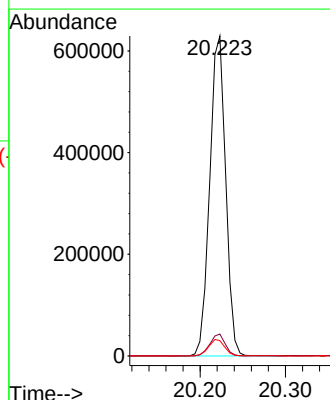
RT: 20.223 min Scan# 2882

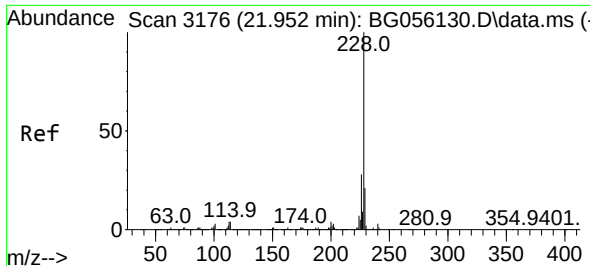
Delta R.T. -0.003 min

Lab File: BG056425.D

Acq: 25 Jan 2023 15:16

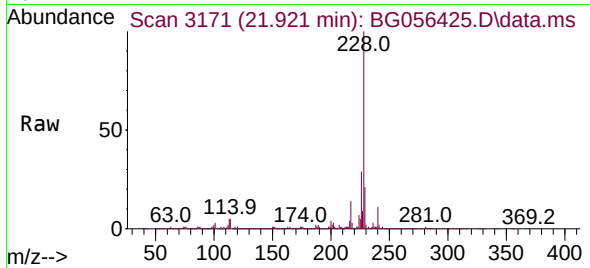
Tgt Ion:244	Resp: 816028
Ion Ratio	Lower Upper
244 100	
212 6.8	5.7 8.5
122 4.8	3.5 5.3





#81
Benzo(a)anthracene
Concen: 31.965 ng
RT: 21.921 min Scan# 3171
Delta R.T. -0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

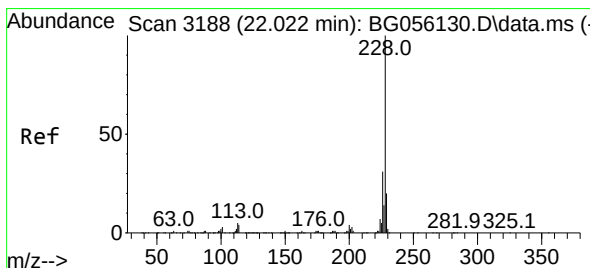
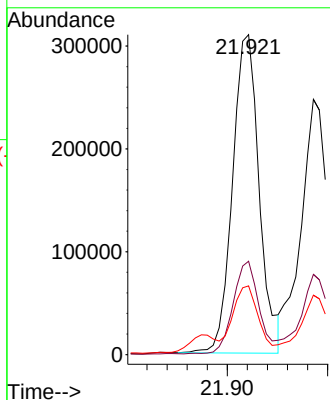
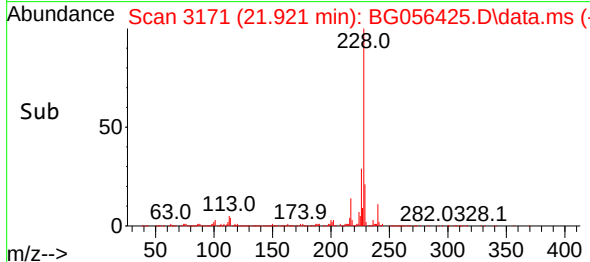
Instrument :
BNA_G
ClientSampleId :
SU-3-012423



Tgt Ion:228 Resp: 570468
Ion Ratio Lower Upper
228 100
226 29.2 22.6 34.0
229 21.5 16.9 25.3

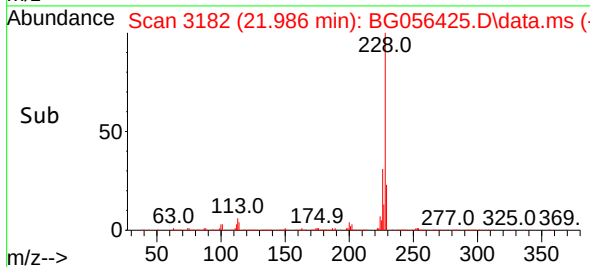
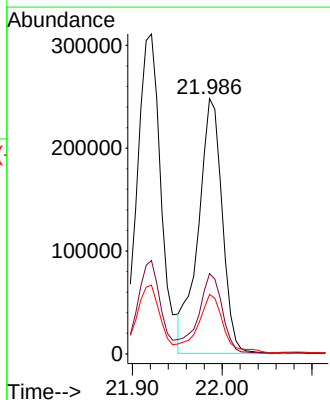
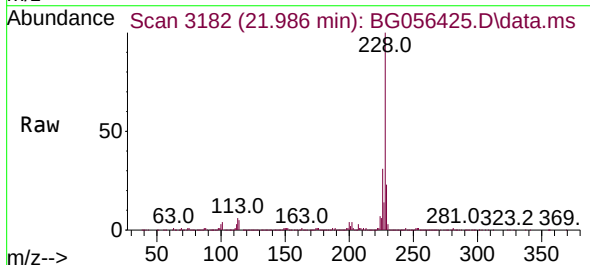
Manual Integrations
APPROVED

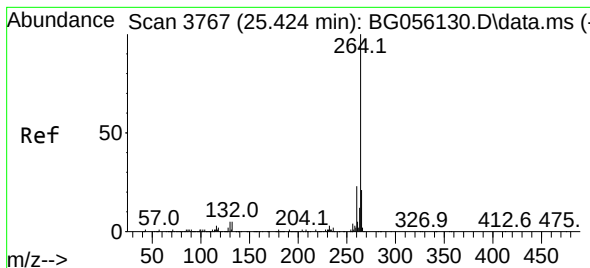
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#83
Chrysene
Concen: 27.460 ng
RT: 21.986 min Scan# 3182
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Tgt Ion:228 Resp: 459049
Ion Ratio Lower Upper
228 100
226 31.4 24.6 36.8
229 23.3 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.376 min Scan# 31

Delta R.T. 0.003 min

Lab File: BG056425.D

Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

SU-3-012423

Tgt Ion:264 Resp: 276563

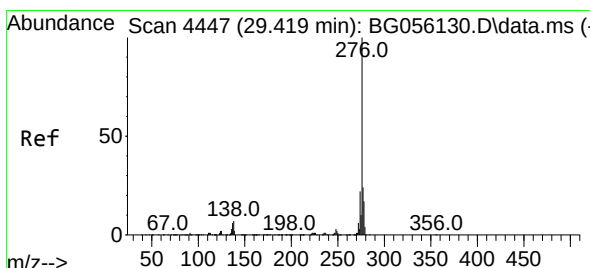
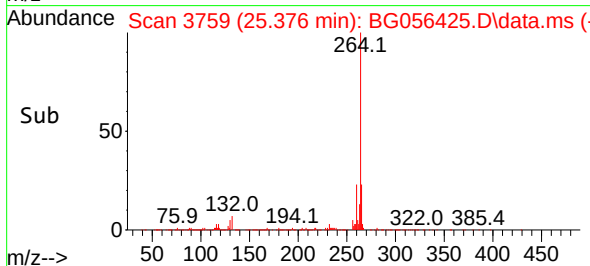
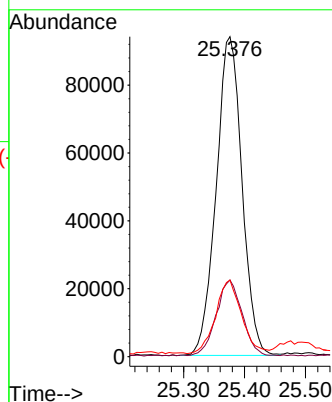
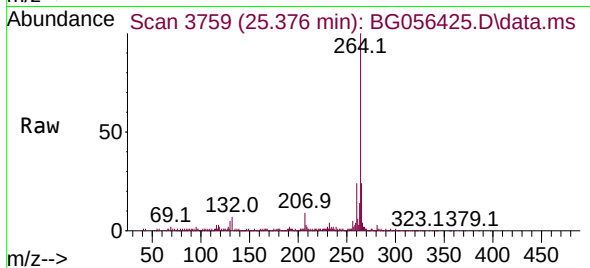
Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	28.0
265	23.9	16.7	25.1

Manual Integrations

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Reviewed By :Christian Giraldo 01/26/2023

Supervised By :Jagrut Upadhyay 01/26/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.723 ng

RT: 29.324 min Scan# 4431

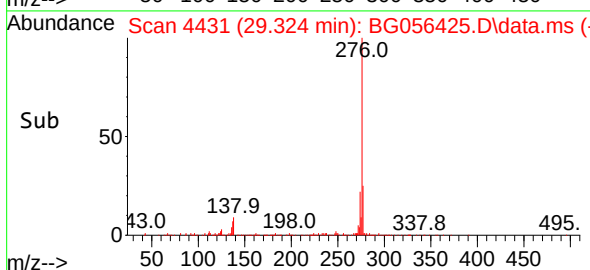
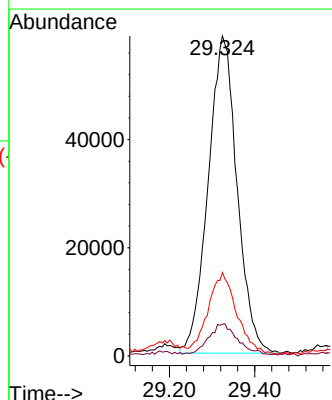
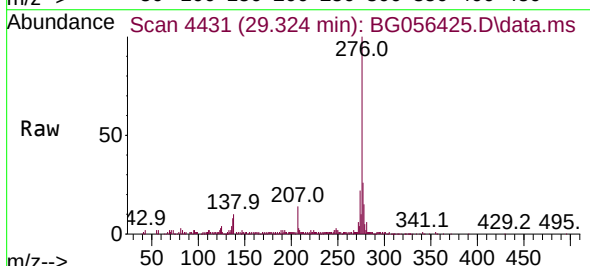
Delta R.T. -0.009 min

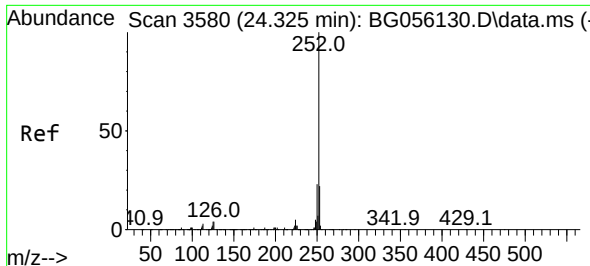
Lab File: BG056425.D

Acq: 25 Jan 2023 15:16

Tgt Ion:276 Resp: 276024

Ion	Ratio	Lower	Upper
276	100		
138	9.9	5.0	7.4#
277	25.3	20.5	30.7





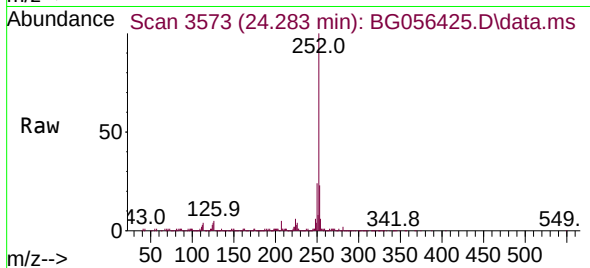
#88
Benzo(b)fluoranthene
Concen: 33.965 ng
RT: 24.283 min Scan# 3573
Delta R.T. 0.003 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

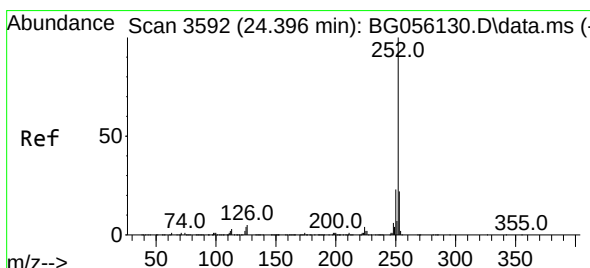
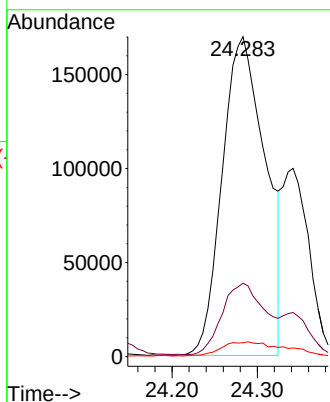
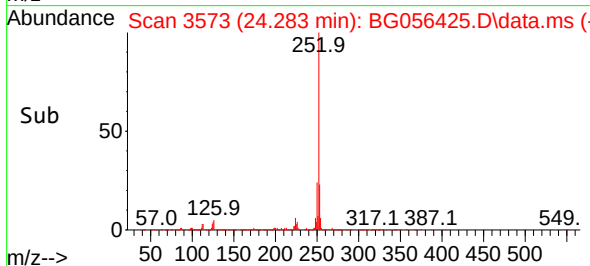
SU-3-012423



Tgt Ion:252 Resp: 596830
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.2
125 4.3 3.0 4.4

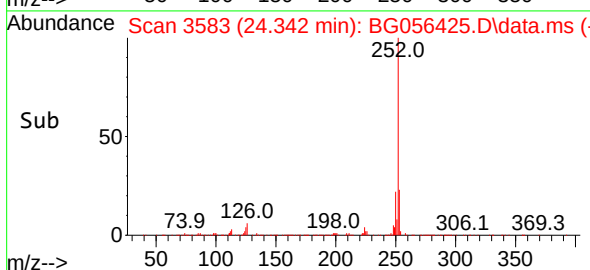
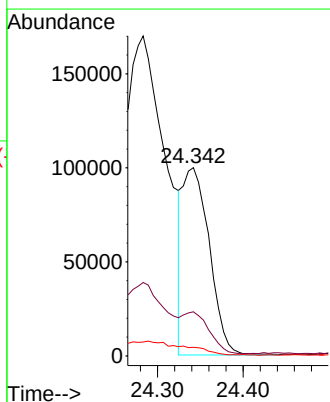
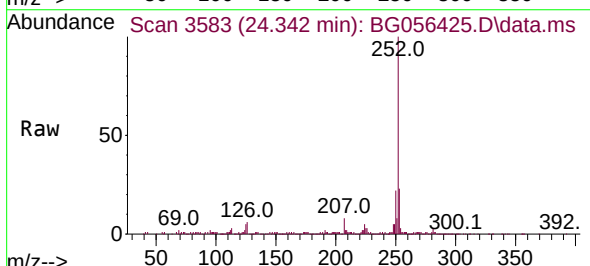
Manual Integrations
APPROVED

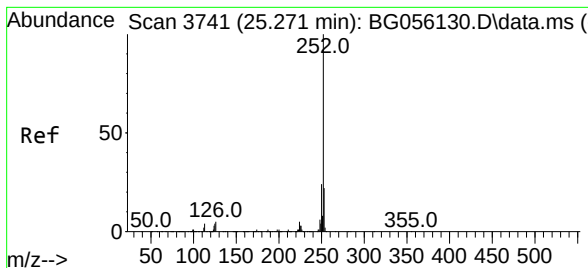
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#89
Benzo(k)fluoranthene
Concen: 12.339 ng m
RT: 24.342 min Scan# 3583
Delta R.T. -0.009 min
Lab File: BG056425.D
Acq: 25 Jan 2023 15:16

Tgt Ion:252 Resp: 215901
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 4.5 3.4 5.0





#90

Benzo(a)pyrene

Concen: 25.987 ng

RT: 25.211 min Scan# 3741

Delta R.T. -0.003 min

Lab File: BG056425.D

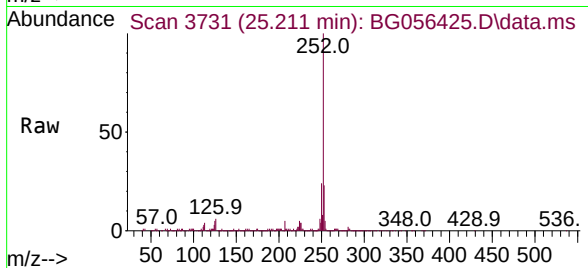
Acq: 25 Jan 2023 15:16

Instrument :

BNA_G

ClientSampleId :

SU-3-012423



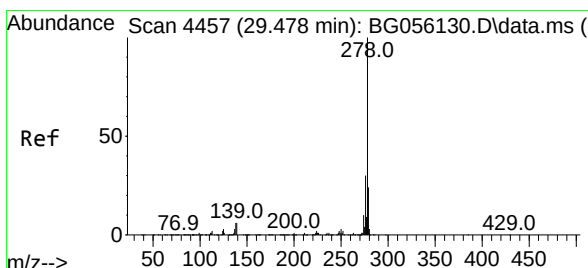
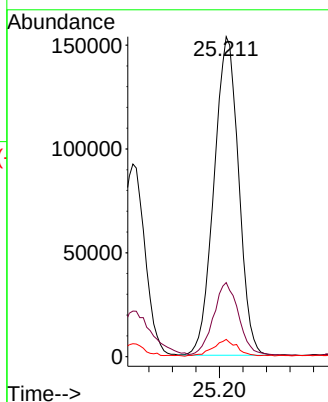
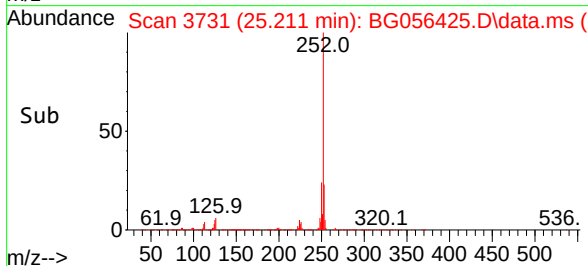
Tgt Ion:252 Resp: 445372

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	5.4	3.2	4.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.551 ng m

RT: 29.371 min Scan# 4439

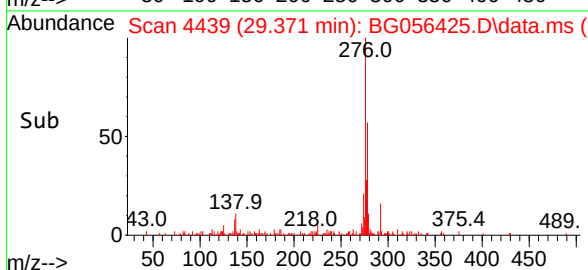
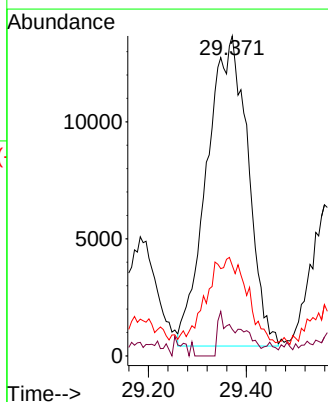
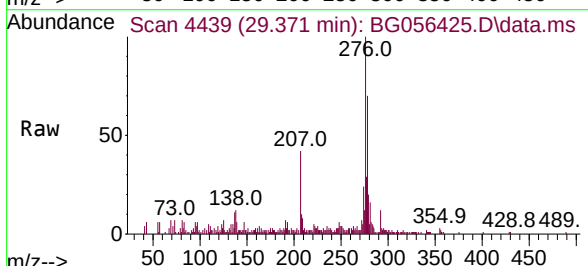
Delta R.T. -0.021 min

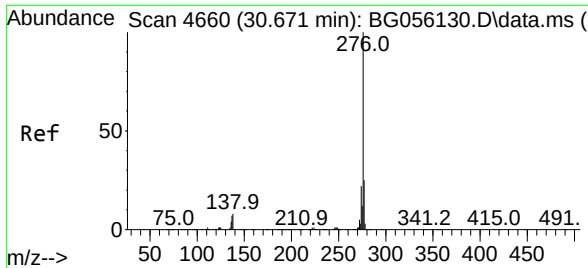
Lab File: BG056425.D

Acq: 25 Jan 2023 15:16

Tgt Ion:278 Resp: 76752

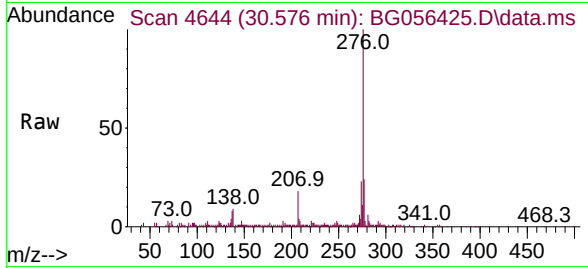
Ion	Ratio	Lower	Upper
278	100		
139	8.3	4.8	7.2
279	28.2	19.0	28.4





#92
 Benzo(g,h,i)perylene
 Concen: 14.875 ng
 RT: 30.576 min Scan# 4644
 Delta R.T. 0.003 min
 Lab File: BG056425.D
 Acq: 25 Jan 2023 15:16

Instrument :
 BNA_G
 ClientSampleId :
 SU-3-012423



Tgt Ion: 276 Resp: 243248

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.7	29.5
138	8.6	6.7	10.1

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/26/2023
 Supervised By : Jagrut Upadhyay 01/26/2023

