

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012423\
 Data File : BG056415.D
 Acq On : 24 Jan 2023 23:16
 Operator : CG/JU
 Sample : 01256-01DL 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-012023DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/25/2023
 Supervised By : Jagrut Upadhyay 01/25/2023

Quant Time: Jan 25 05:36:14 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	8.291	152	50119	20.000	ng	0.00
21) Naphthalene-d8	11.123	136	188609	20.000	ng	0.00
39) Acenaphthene-d10	14.907	164	135969	20.000	ng	0.00
64) Phenanthrene-d10	17.645	188	314806	20.000	ng	0.00
76) Chrysene-d12	21.934	240	307686	20.000	ng	# 0.00
86) Perylene-d12	25.366	264	347989	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.818	112	29618	10.551	ng	0.00
7) Phenol-d6	7.434	99	41512	9.630	ng	0.00
23) Nitrobenzene-d5	9.467	82	22728	6.164	ng	0.00
42) 2,4,6-Tribromophenol	16.388	330	16899	9.813	ng	0.00
45) 2-Fluorobiphenyl	13.532	172	69989	7.108	ng	0.00
79) Terphenyl-d14	20.219	244	118821	6.917	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.170	128	72253	7.279	ng	98
37) 2-Methylnaphthalene	12.757	142	34873	4.161	ng	96
38) 1-Methylnaphthalene	12.974	142	24695	3.173	ng	100
52) Acenaphthene	14.972	154	26959	3.314	ng	95
55) Dibenzofuran	15.301	168	67424	5.009	ng	96
58) Fluorene	15.947	166	90382	8.347	ng	97
71) Phenanthrene	17.686	178	660458	40.484	ng	99
72) Anthracene	17.780	178	163106	9.692	ng	98
73) Carbazole	18.045	167	42991	3.039	ng	97
75) Fluoranthene	19.678	202	879572	41.332	ng	99
78) Pyrene	20.042	202	734963	33.889	ng	99
81) Benzo(a)anthracene	21.911	228	388894	17.995	ng	99
83) Chrysene	21.981	228	322801	15.946	ng	97
87) Indeno(1,2,3-cd)pyrene	29.302	276	179992	7.112	ng	# 95
88) Benzo(b)fluoranthene	24.273	252	416999	18.860	ng	# 99
89) Benzo(k)fluoranthene	24.331	252	151181m	6.867	ng	
90) Benzo(a)pyrene	25.201	252	326900	15.159	ng	# 96
91) Dibenzo(a,h)anthracene	29.343	278	49942	2.354	ng	# 96
92) Benzo(g,h,i)perylene	30.554	276	168645	8.196	ng	# 99

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

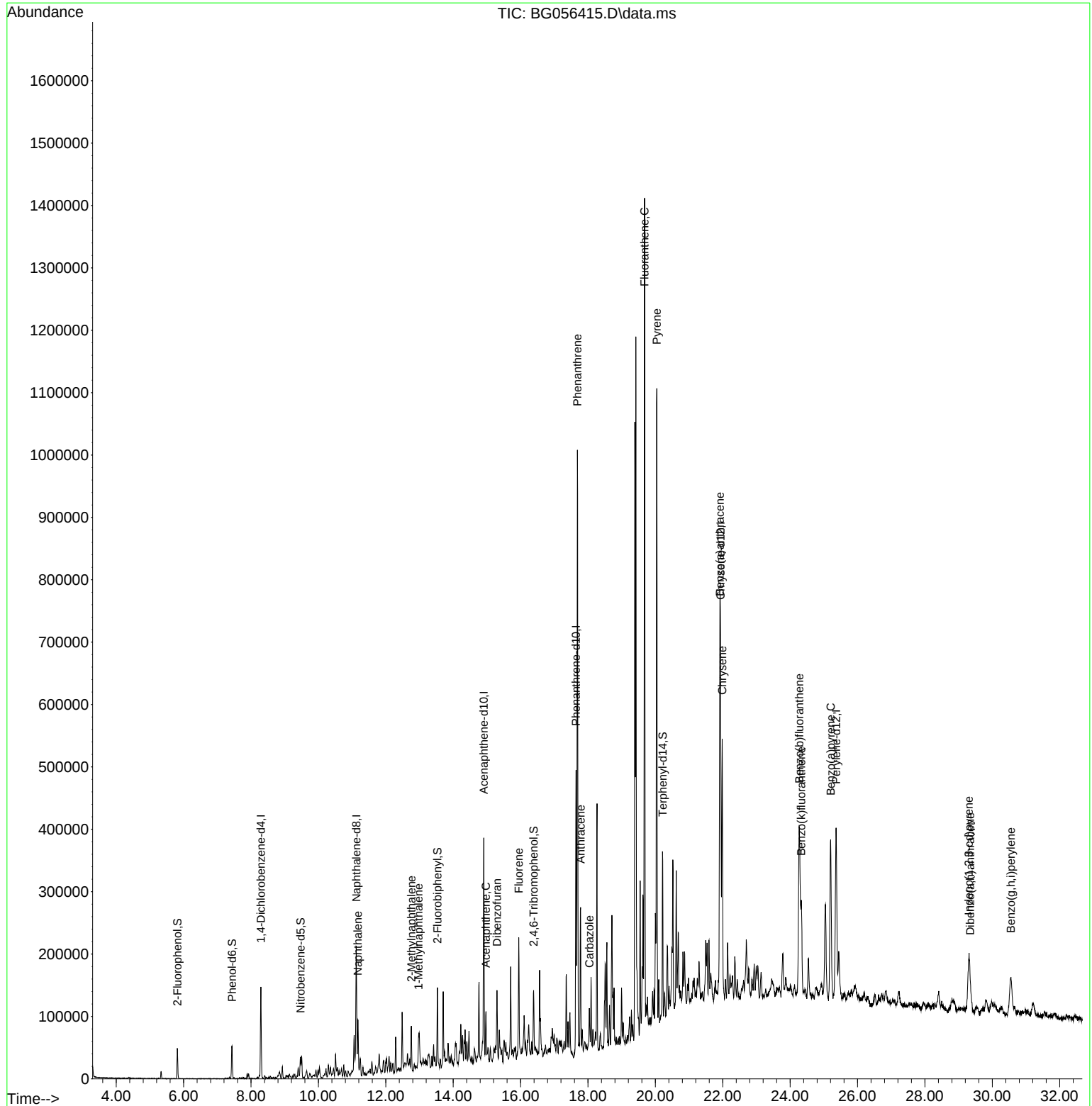
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012423\
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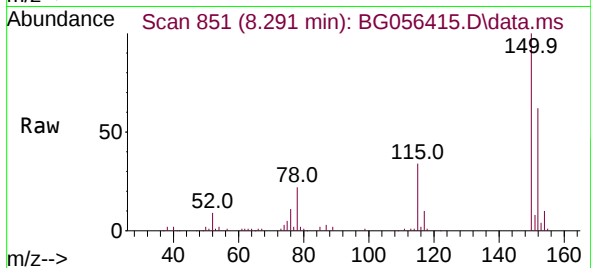
Reviewed By : Christian Giraldo 01/25/2023
Supervised By : Jagrut Upadhyay 01/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.291 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

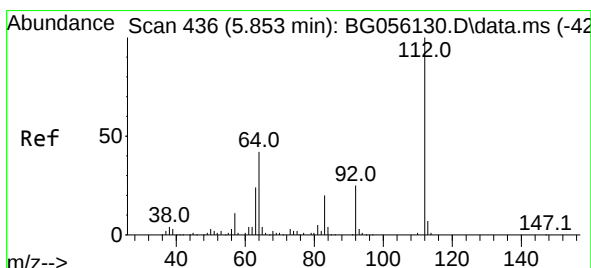
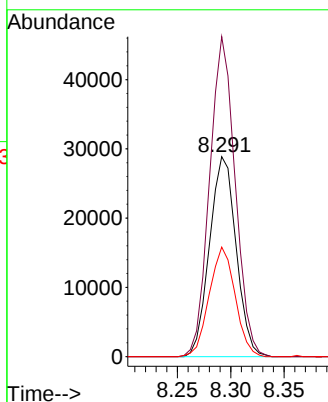
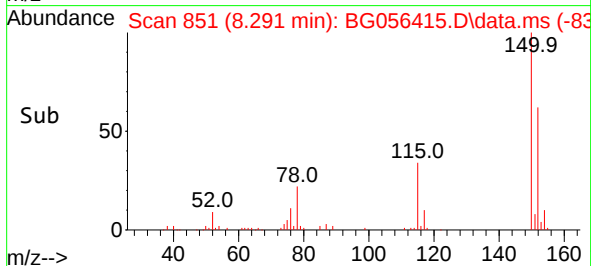
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



Tgt Ion:152 Resp: 50119
Ion Ratio Lower Upper
152 100
150 160.1 127.9 191.9
115 54.8 44.2 66.2

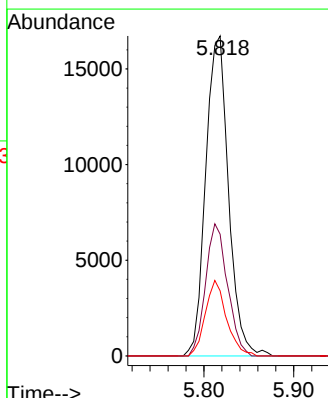
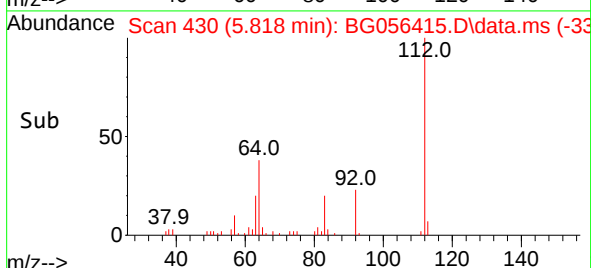
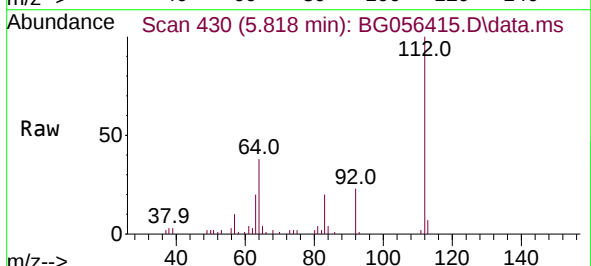
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Supervised By :Jagrut Upadhyay 01/25/2023



#5
2-Fluorophenol
Concen: 10.551 ng
RT: 5.818 min Scan# 430
Delta R.T. 0.004 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

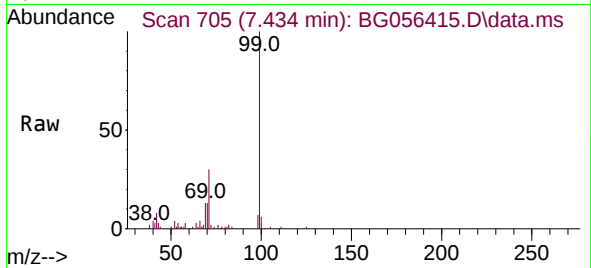
Tgt Ion:112 Resp: 29618
Ion Ratio Lower Upper
112 100
64 38.0 33.3 49.9
63 20.3 19.0 28.4





#7
Phenol-d6
Concen: 9.630 ng
RT: 7.434 min Scan# 705
Delta R.T. -0.002 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

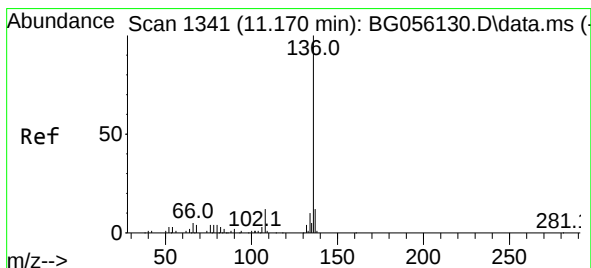
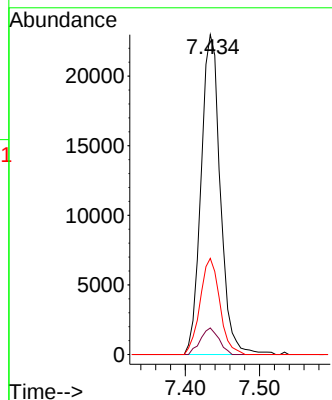
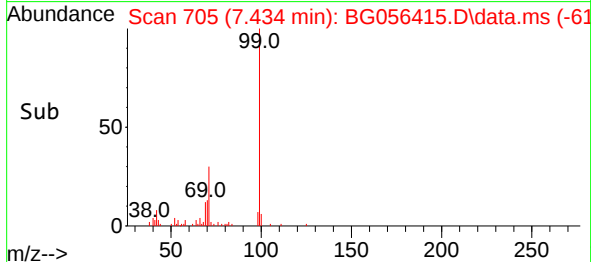
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



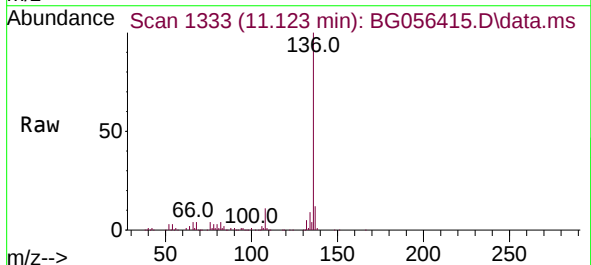
Tgt Ion: 99 Resp: 41512
Ion Ratio Lower Upper
99 100
42 8.3 5.9 8.9
71 30.1 25.4 38.2

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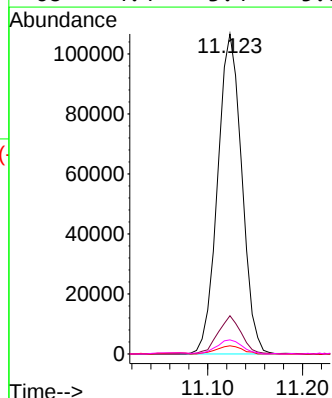
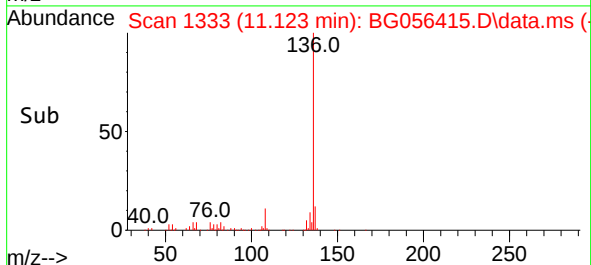
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.123 min Scan# 1333
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16



Tgt Ion:136 Resp: 188609
Ion Ratio Lower Upper
136 100
137 11.9 9.4 14.0
54 2.5 2.2 3.2
68 4.4 3.4 5.0





#23

Nitrobenzene-d5

Concen: 6.164 ng

RT: 9.467 min Scan# 1051

Delta R.T. -0.008 min

Lab File: BG056415.D

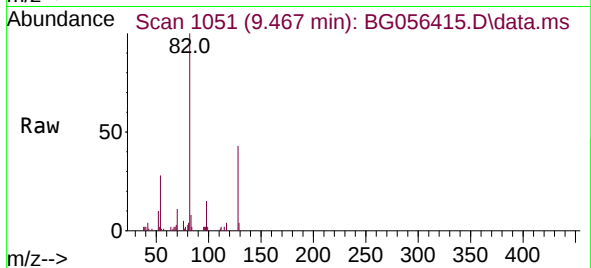
Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL



Tgt Ion: 82 Resp: 22728

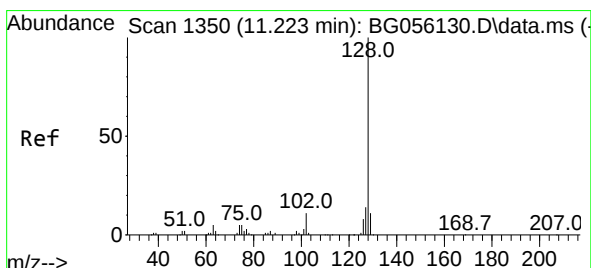
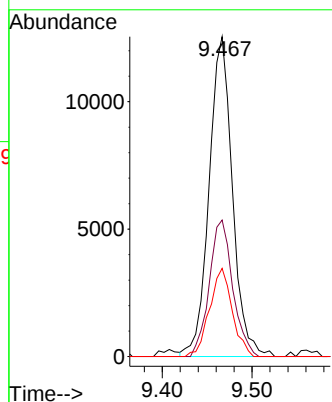
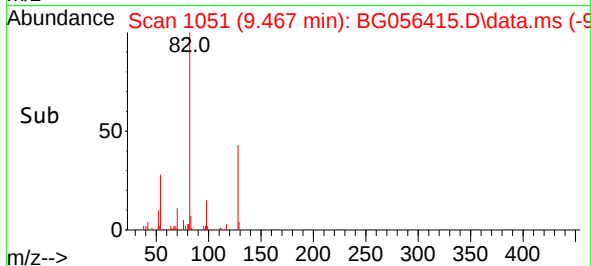
Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.4	50.2
54	27.6	20.3	30.5

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#31

Naphthalene

Concen: 7.279 ng

RT: 11.170 min Scan# 1341

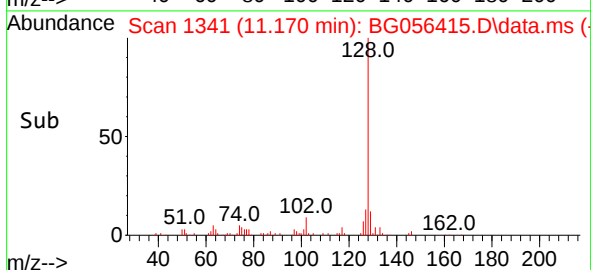
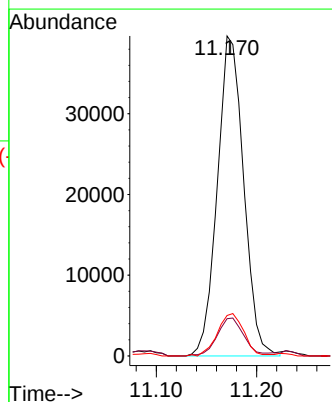
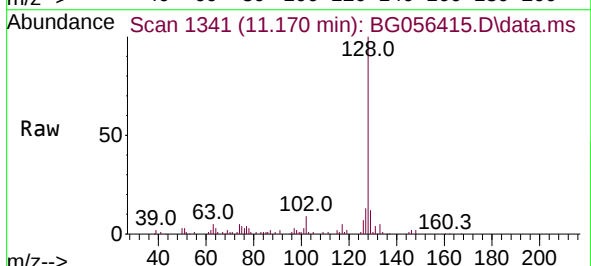
Delta R.T. -0.013 min

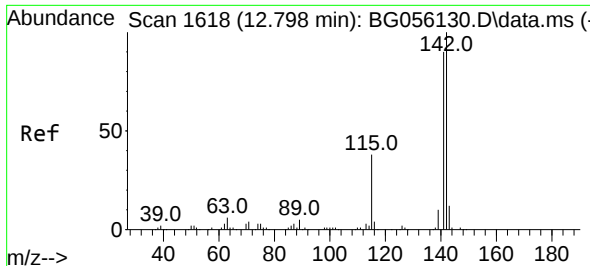
Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Tgt Ion:128 Resp: 72253

Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.9	13.3
127	12.7	11.2	16.8





#37

2-Methylnaphthalene

Concen: 4.161 ng

RT: 12.757 min Scan# 1611

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

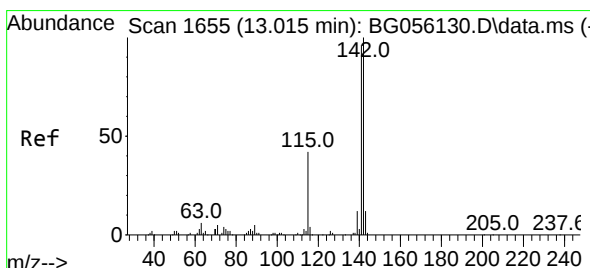
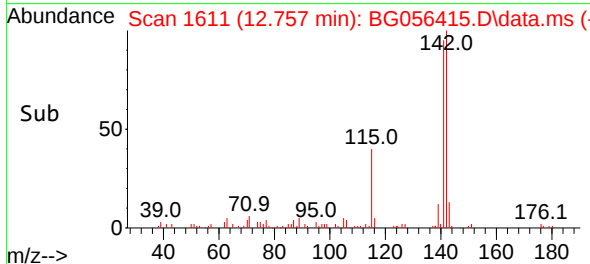
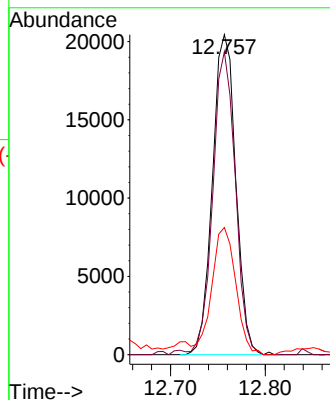
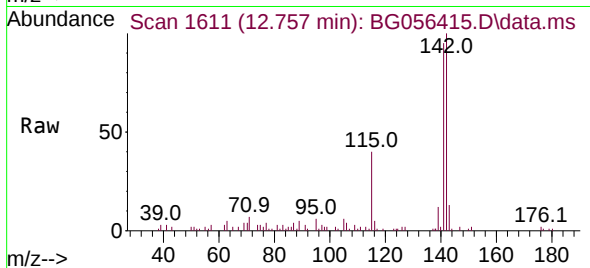
OR-02-012023DL

Tgt Ion:142	Resp:	34873
Ion Ratio	Lower	Upper
142	100	
141	94.6	72.2 108.4
115	39.7	30.7 46.1

Manual Integrations

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Supervised By :Jagrut Upadhyay 01/25/2023



#38

1-Methylnaphthalene

Concen: 3.173 ng

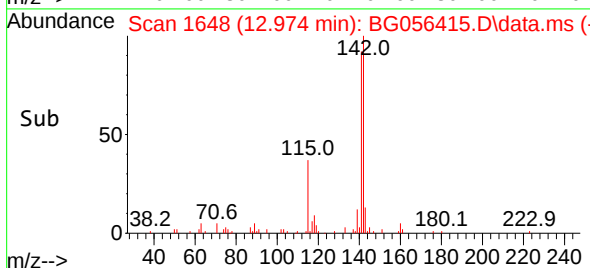
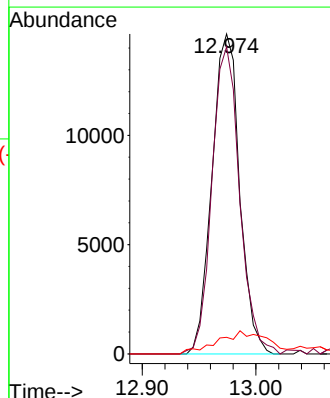
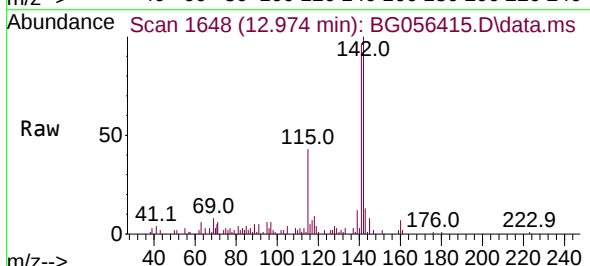
RT: 12.974 min Scan# 1648

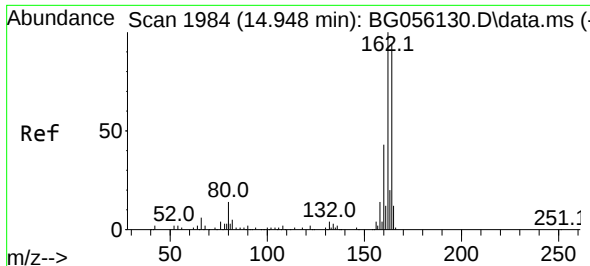
Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Tgt Ion:142	Resp:	24695
Ion Ratio	Lower	Upper
142	100	
141	96.0	77.0 115.6
116	5.2	3.6 5.4





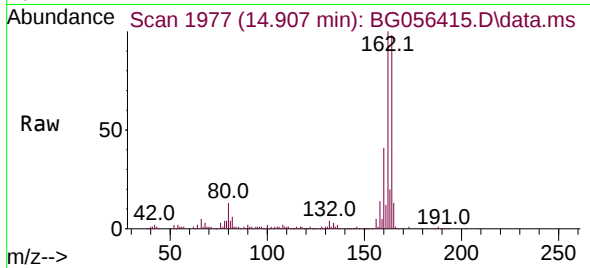
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.907 min Scan# 1984
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

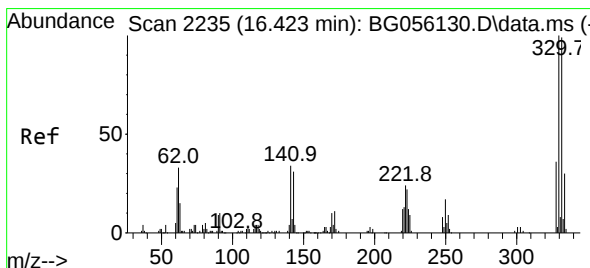
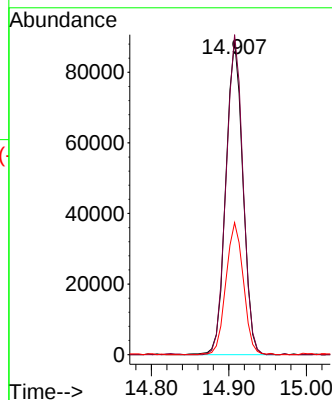
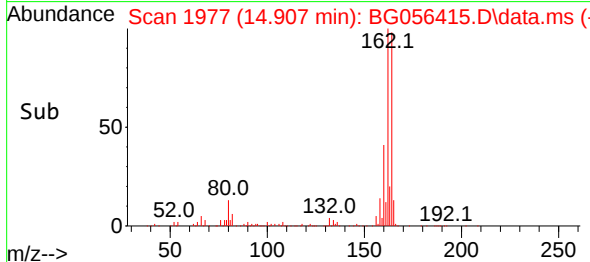


Tgt Ion:164 Resp: 135969
Ion Ratio Lower Upper
164 100
162 102.0 84.7 127.1
160 42.1 36.3 54.5

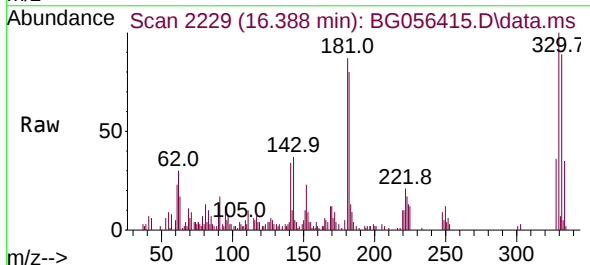
Manual Integrations

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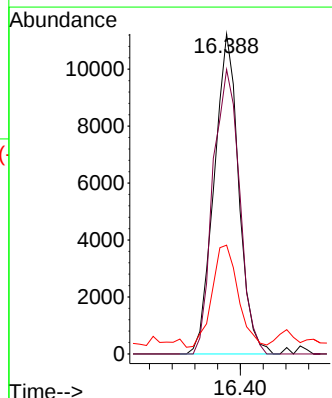
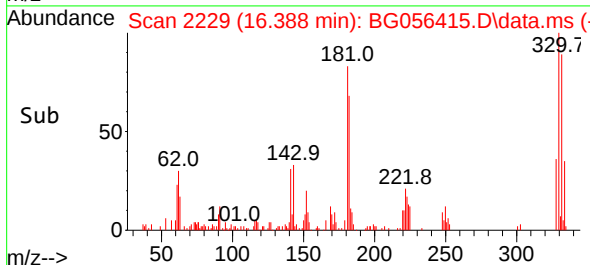
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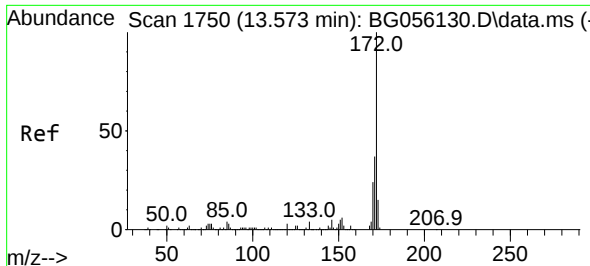


#42
2,4,6-Tribromophenol
Concen: 9.813 ng
RT: 16.388 min Scan# 2229
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16



Tgt Ion:330 Resp: 16899
Ion Ratio Lower Upper
330 100
332 95.7 77.3 115.9
141 34.0 27.9 41.9





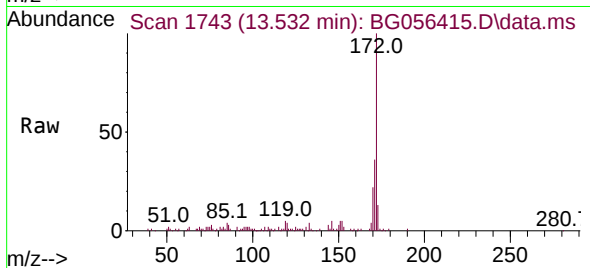
#45
2-Fluorobiphenyl
Concen: 7.108 ng
RT: 13.532 min Scan# 1743
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

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OR-02-012023DL

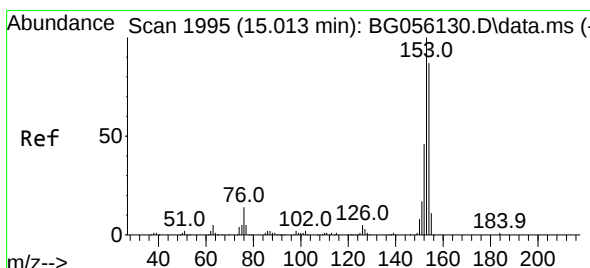
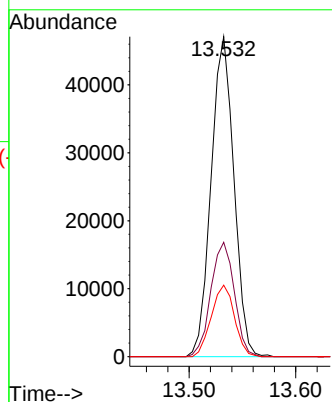
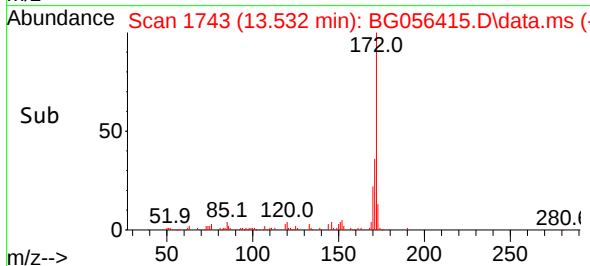


Tgt Ion:172 Resp: 69989
Ion Ratio Lower Upper
172 100
171 35.7 29.6 44.4
170 22.3 19.4 29.2

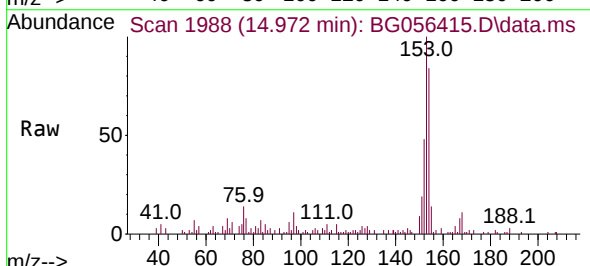
Manual Integrations

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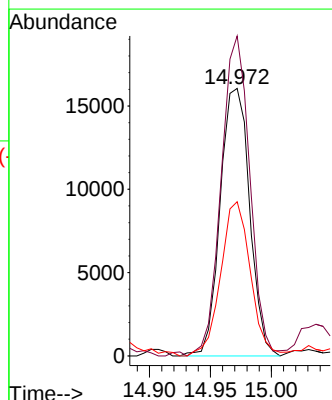
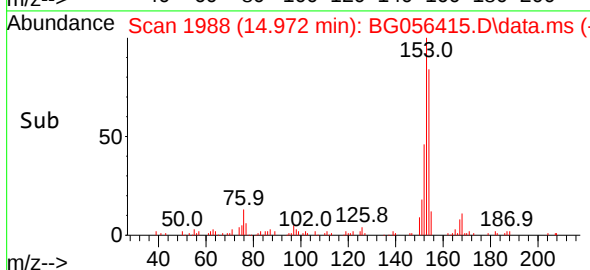
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023

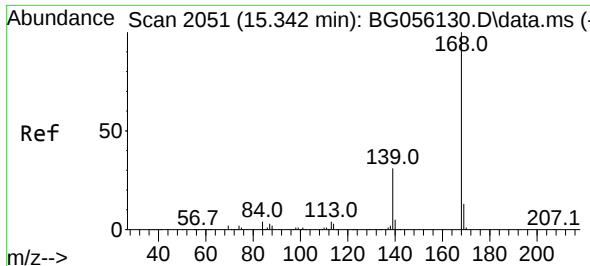


#52
Acenaphthene
Concen: 3.314 ng
RT: 14.972 min Scan# 1988
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16



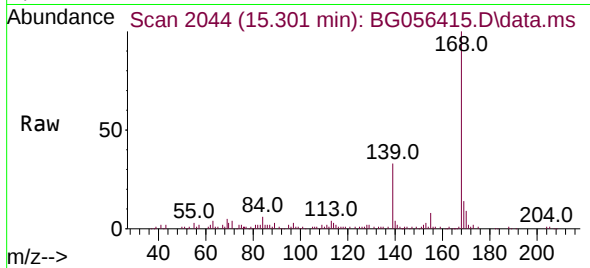
Tgt Ion:154 Resp: 26959
Ion Ratio Lower Upper
154 100
153 119.6 92.0 138.0
152 57.6 42.5 63.7





#55
Dibenzenofuran
Concen: 5.009 ng
RT: 15.301 min Scan# 2051
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

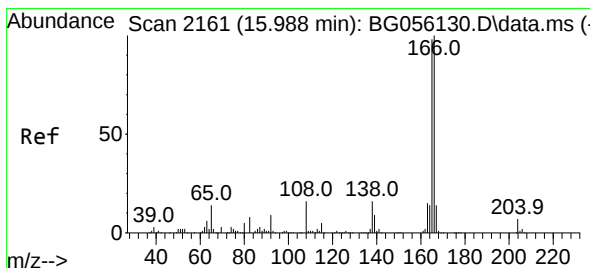
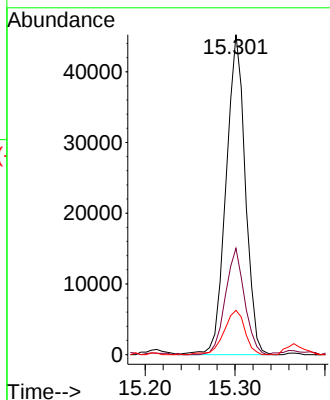
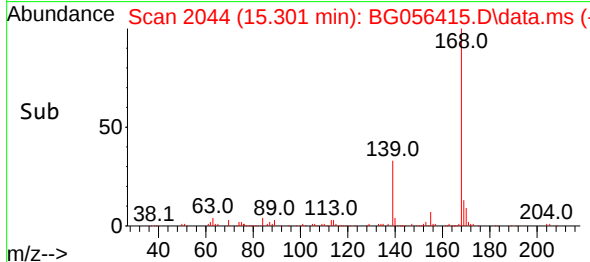
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



Tgt Ion:168 Resp: 67424
Ion Ratio Lower Upper
168 100
139 33.2 24.7 37.1
169 13.8 10.3 15.5

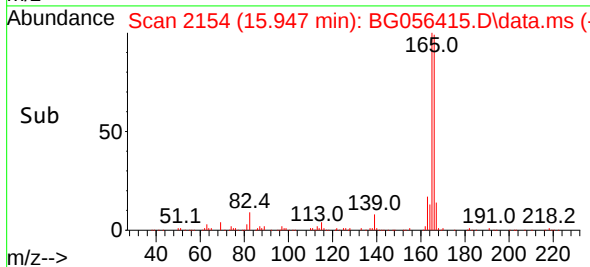
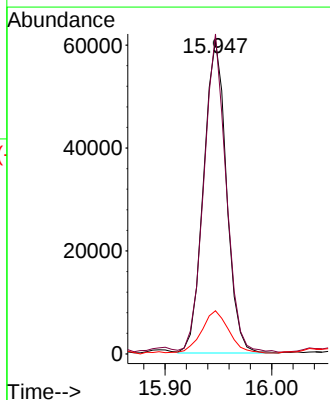
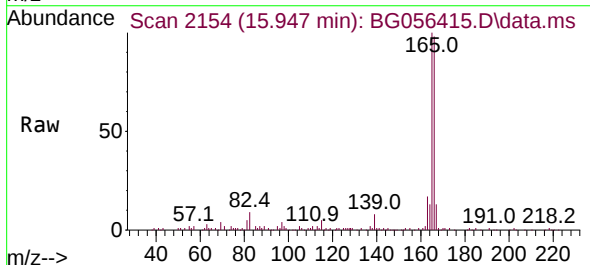
Manual Integrations
APPROVED

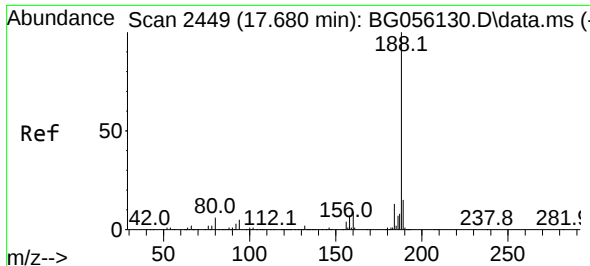
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#58
Fluorene
Concen: 8.347 ng
RT: 15.947 min Scan# 2154
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:166 Resp: 90382
Ion Ratio Lower Upper
166 100
165 102.1 78.6 118.0
167 13.7 11.1 16.7





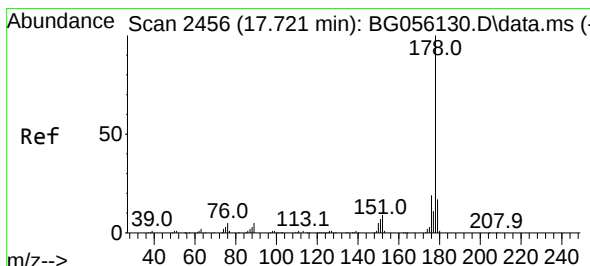
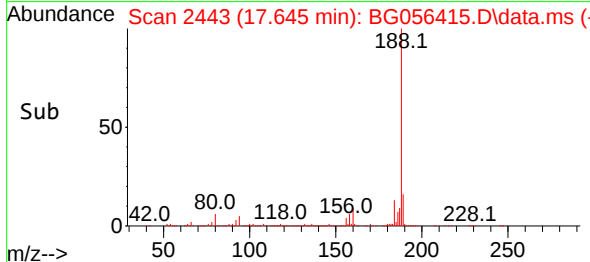
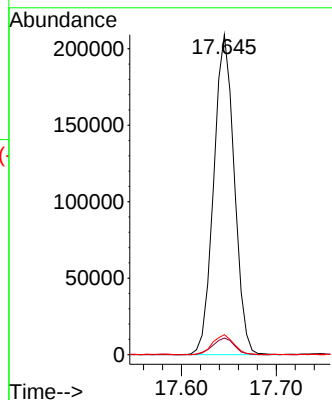
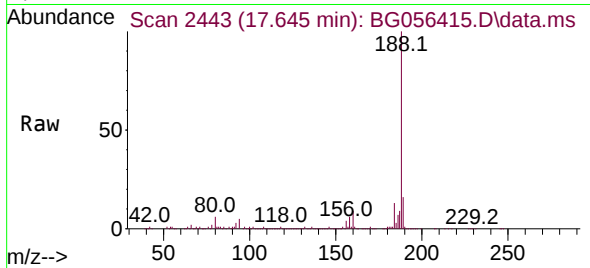
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.645 min Scan# 2443
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

Tgt Ion:188 Resp: 314806
Ion Ratio Lower Upper
188 100
94 5.2 4.2 6.2
80 6.2 5.0 7.4

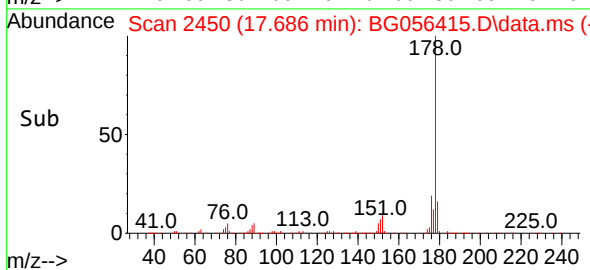
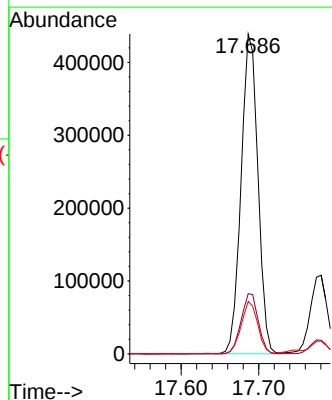
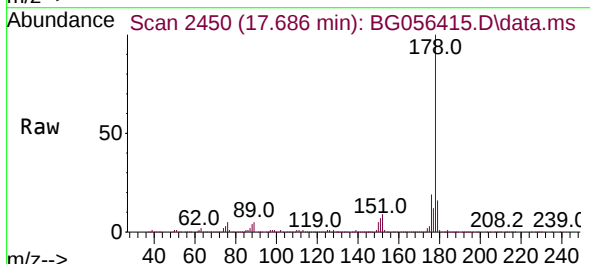
Manual Integrations
APPROVED

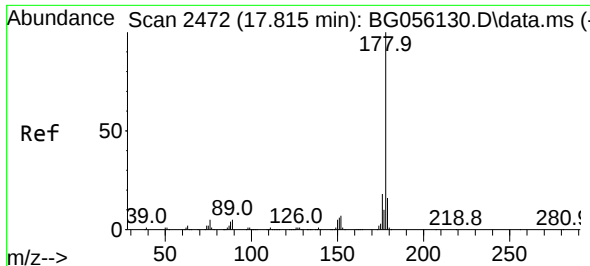
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#71
Phenanthrene
Concen: 40.484 ng
RT: 17.686 min Scan# 2450
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

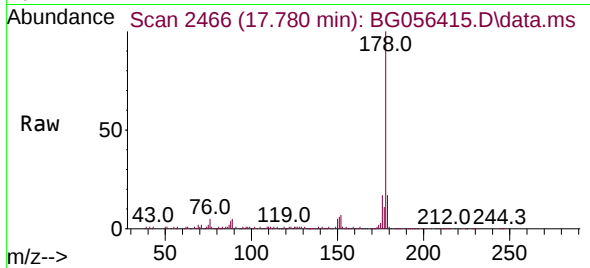
Tgt Ion:178 Resp: 660458
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 16.4 13.6 20.4





#72
 Anthracene
 Concen: 9.692 ng
 RT: 17.780 min Scan# 2472
 Delta R.T. -0.008 min
 Lab File: BG056415.D
 Acq: 24 Jan 2023 23:16

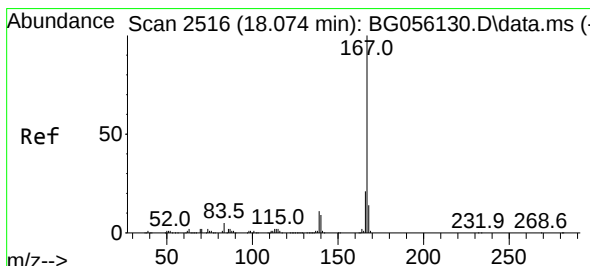
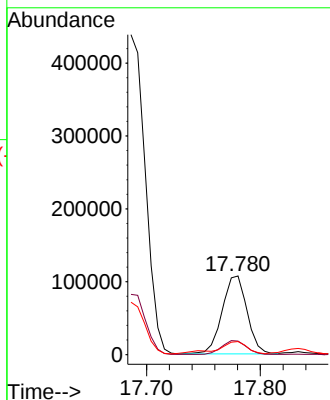
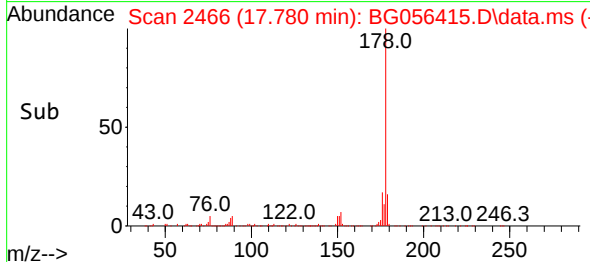
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-012023DL



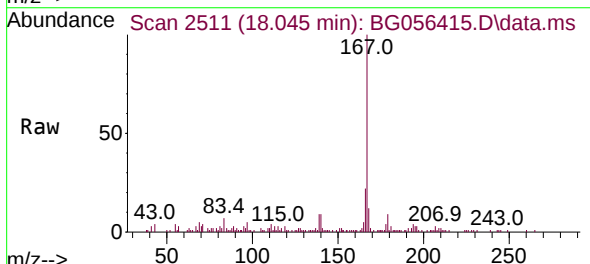
Tgt Ion:178 Resp: 163106
 Ion Ratio Lower Upper
 178 100
 176 17.3 14.6 22.0
 179 16.5 12.7 19.1

Manual Integrations
 APPROVED

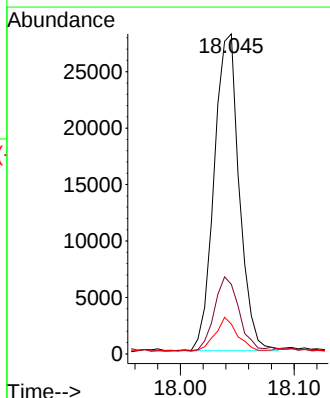
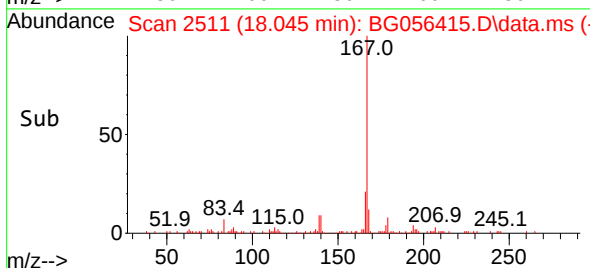
Reviewed By :Christian Giraldo 01/25/2023
 Supervised By :Jagrut Upadhyay 01/25/2023

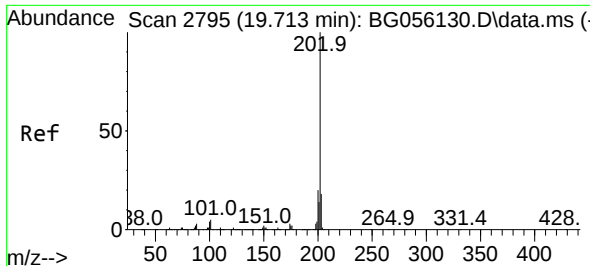


#73
 Carbazole
 Concen: 3.039 ng
 RT: 18.045 min Scan# 2511
 Delta R.T. -0.008 min
 Lab File: BG056415.D
 Acq: 24 Jan 2023 23:16



Tgt Ion:167 Resp: 42991
 Ion Ratio Lower Upper
 167 100
 166 21.7 16.8 25.2
 139 9.3 8.9 13.3





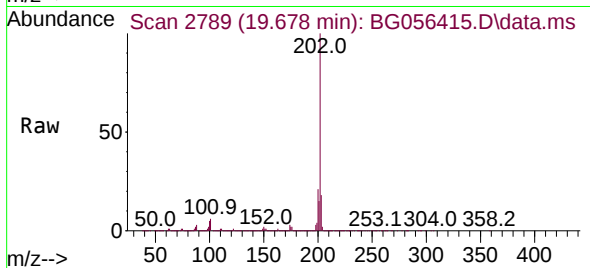
#75
Fluoranthene
Concen: 41.332 ng
RT: 19.678 min Scan# 21
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

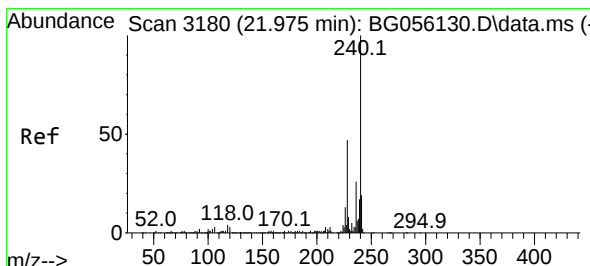
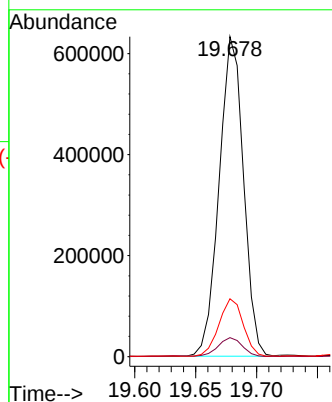
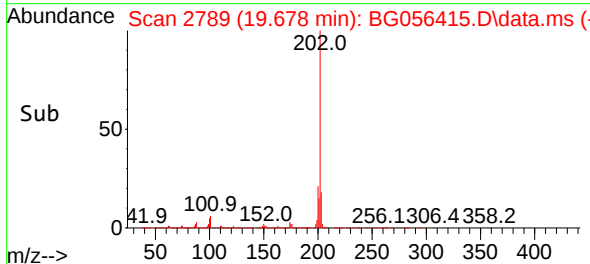


Tgt Ion:202 Resp: 879572
Ion Ratio Lower Upper
202 100
101 5.9 0.0 25.0
203 18.1 0.0 38.0

Manual Integrations

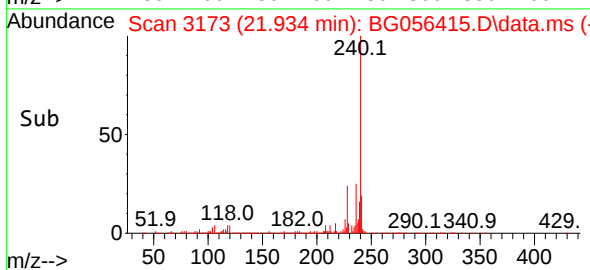
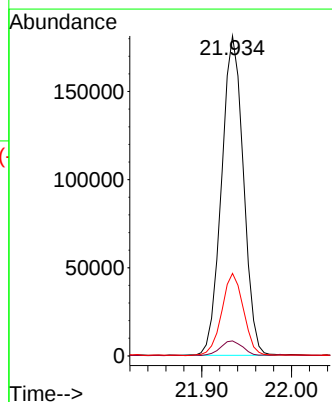
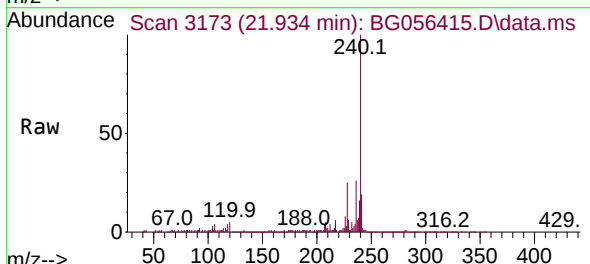
APPROVED

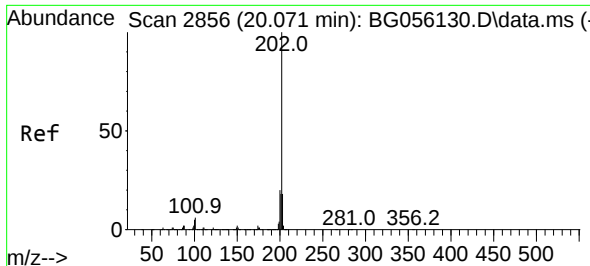
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.934 min Scan# 3173
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

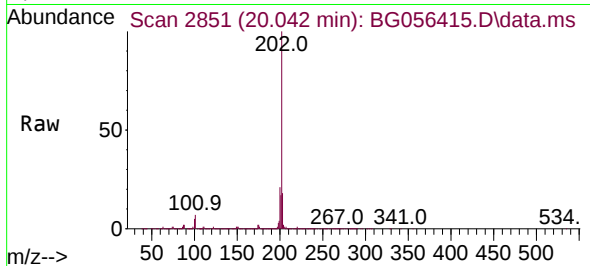
Tgt Ion:240 Resp: 307686
Ion Ratio Lower Upper
240 100
120 4.7 2.6 4.0#
236 25.8 20.8 31.2





#78
Pyrene
Concen: 33.889 ng
RT: 20.042 min Scan# 2856
Delta R.T. -0.002 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

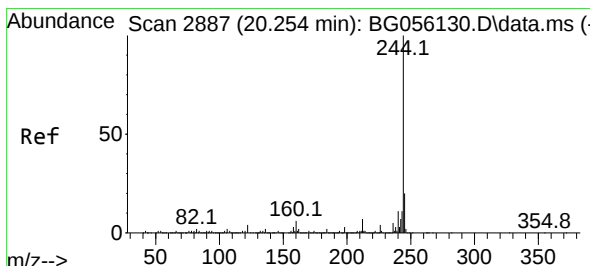
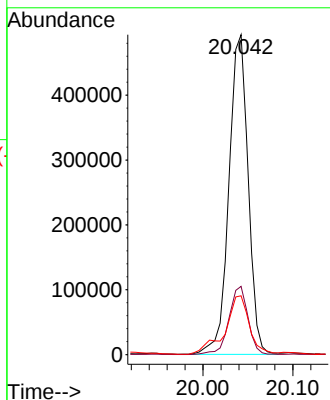
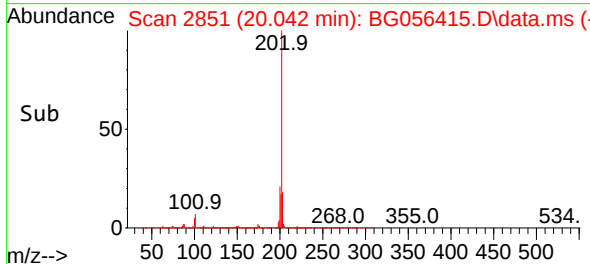
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



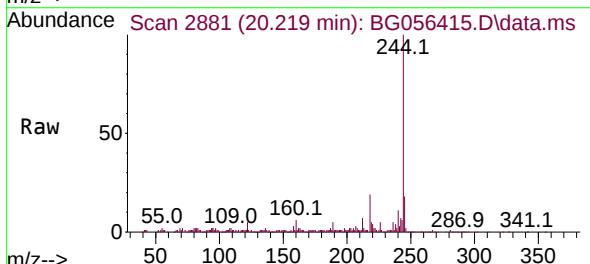
Tgt Ion:202 Resp: 734963
Ion Ratio Lower Upper
202 100
200 21.3 16.4 24.6
203 18.4 14.3 21.5

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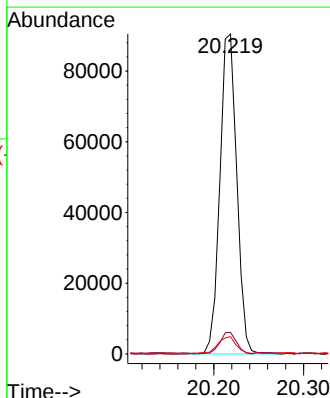
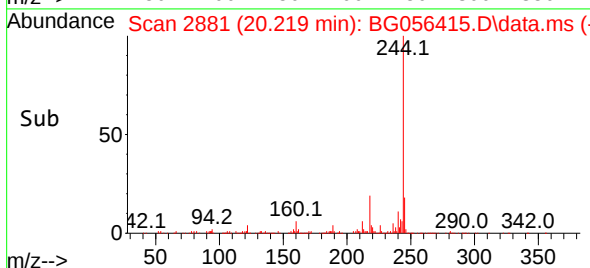
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023

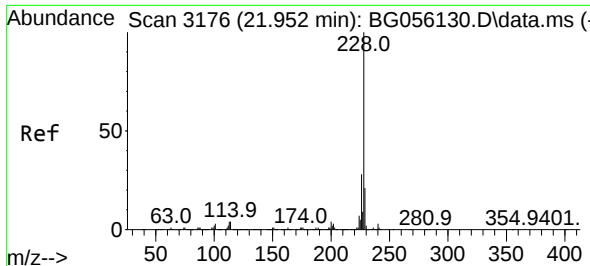


#79
Terphenyl-d14
Concen: 6.917 ng
RT: 20.219 min Scan# 2881
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16



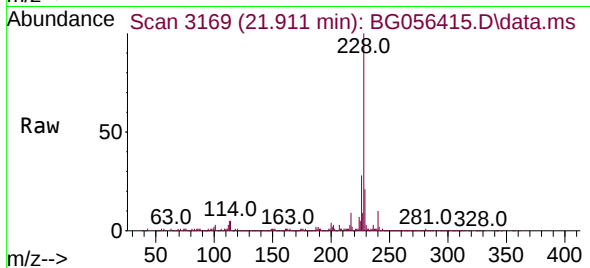
Tgt Ion:244 Resp: 118821
Ion Ratio Lower Upper
244 100
212 6.7 5.7 8.5
122 5.4 3.5 5.3#





#81
Benzo(a)anthracene
Concen: 17.995 ng
RT: 21.911 min Scan# 3176
Delta R.T. -0.013 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

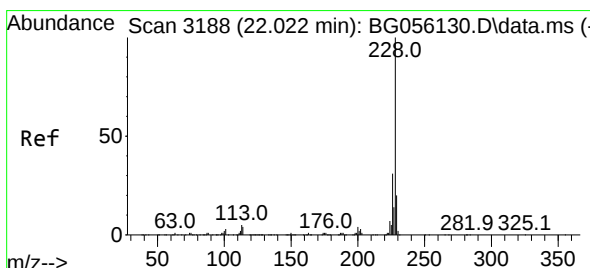
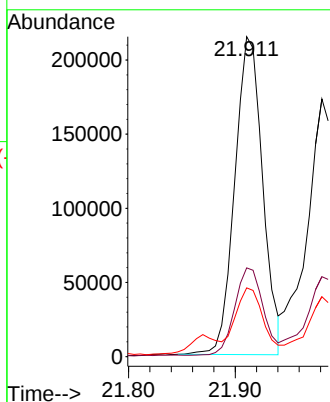
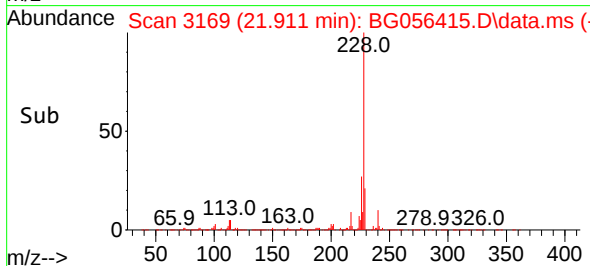
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



Tgt Ion:228 Resp: 388894
Ion Ratio Lower Upper
228 100
226 27.7 22.6 34.0
229 21.5 16.9 25.3

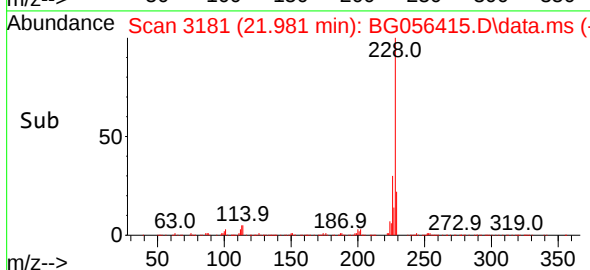
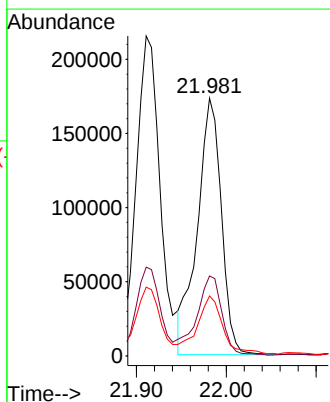
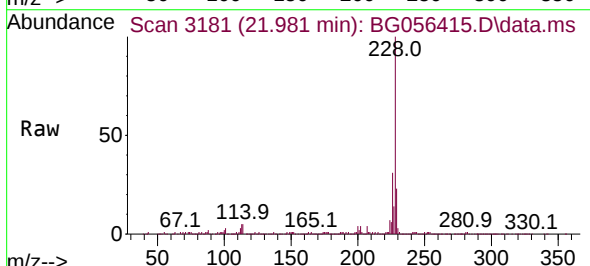
Manual Integrations
APPROVED

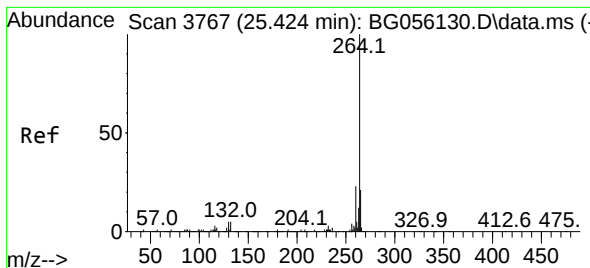
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#83
Chrysene
Concen: 15.946 ng
RT: 21.981 min Scan# 3181
Delta R.T. -0.013 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:228 Resp: 322801
Ion Ratio Lower Upper
228 100
226 31.0 24.6 36.8
229 23.3 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.366 min Scan# 31

Delta R.T. -0.008 min

Lab File: BG056415.D

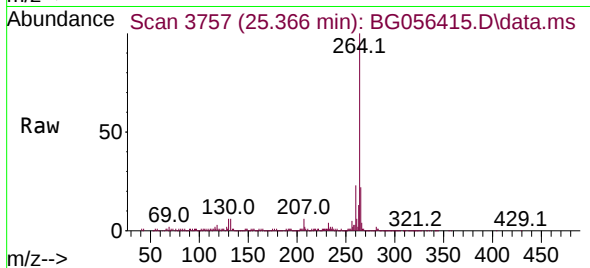
Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL



Tgt Ion:264 Resp: 347989

Ion Ratio Lower Upper

264 100

260 23.0 18.6 28.0

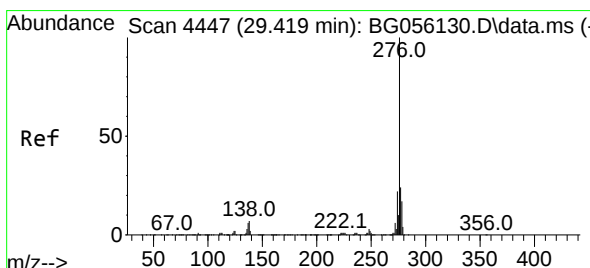
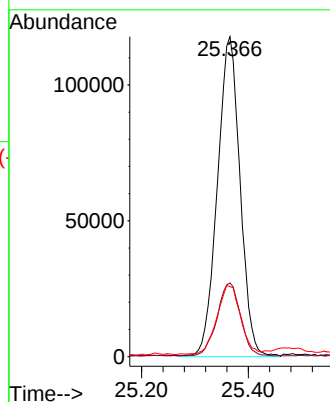
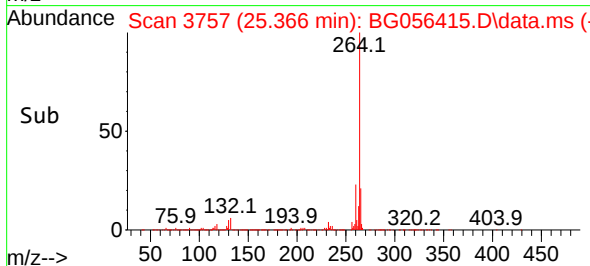
265 21.9 16.7 25.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/25/2023

Supervised By :Jagrut Upadhyay 01/25/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.112 ng

RT: 29.302 min Scan# 4427

Delta R.T. -0.031 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

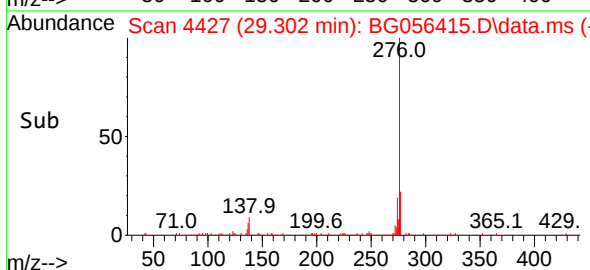
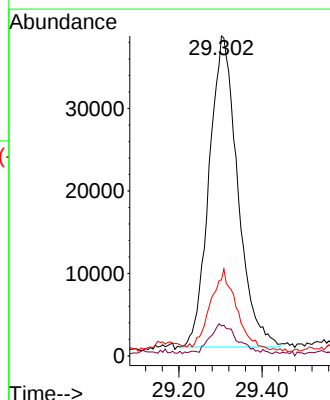
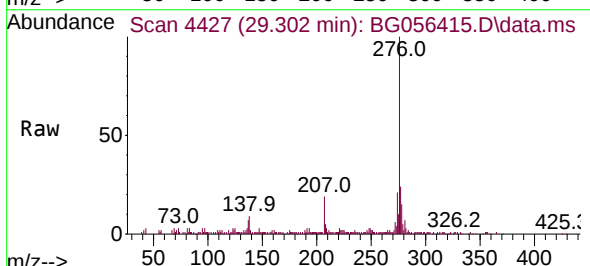
Tgt Ion:276 Resp: 179992

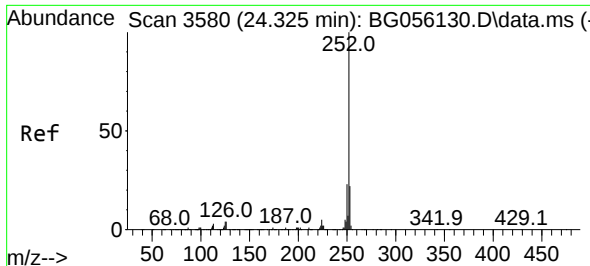
Ion Ratio Lower Upper

276 100

138 8.1 5.0 7.4#

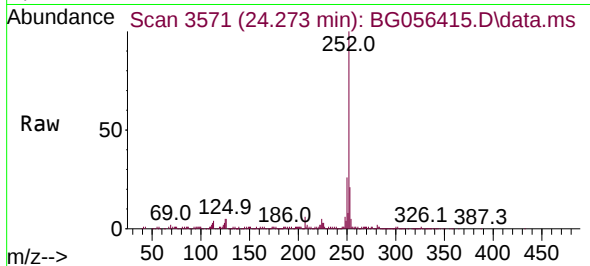
277 23.3 20.5 30.7





#88
Benzo(b)fluoranthene
Concen: 18.860 ng
RT: 24.273 min Scan# 3571
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

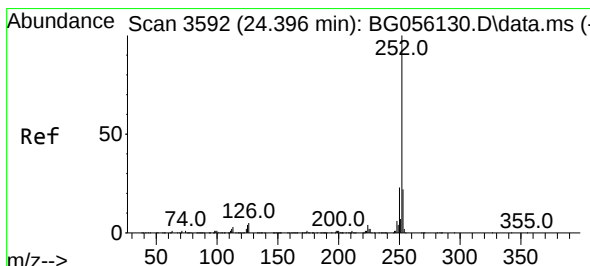
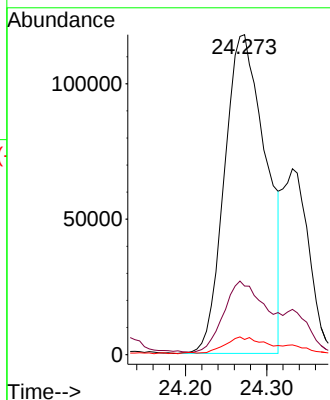
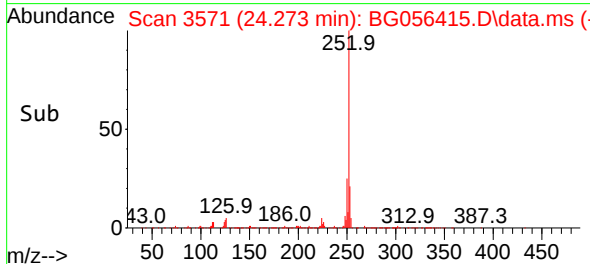
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



Tgt Ion:252 Resp: 416999
Ion Ratio Lower Upper
252 100
253 21.4 17.4 26.2
125 4.7 3.0 4.4

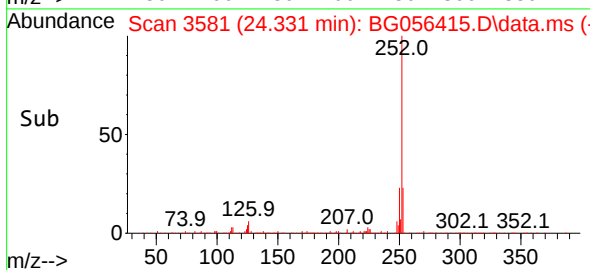
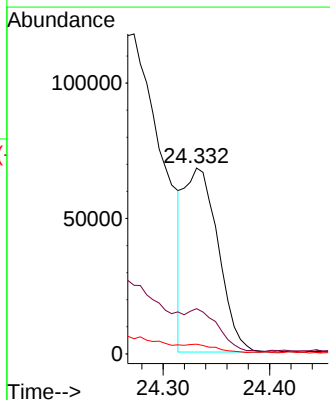
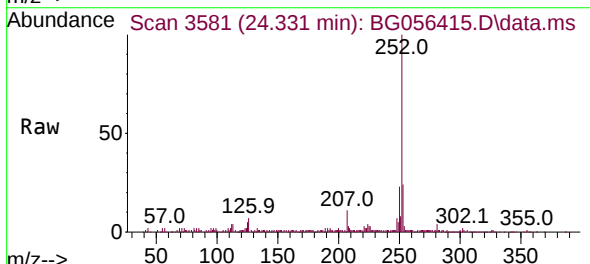
Manual Integrations
APPROVED

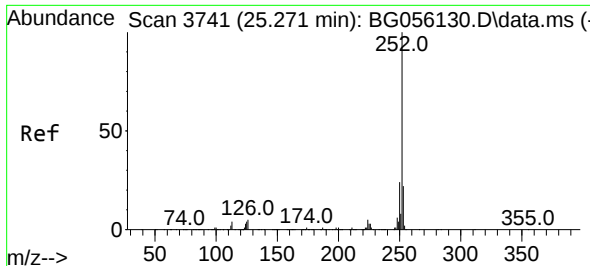
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#89
Benzo(k)fluoranthene
Concen: 6.867 ng m
RT: 24.331 min Scan# 3581
Delta R.T. -0.019 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

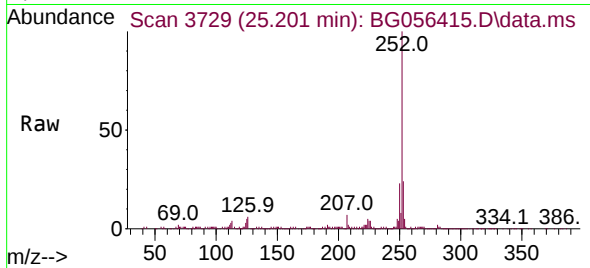
Tgt Ion:252 Resp: 151181
Ion Ratio Lower Upper
252 100
253 24.3 17.5 26.3
125 5.2 3.4 5.0





#90
Benzo(a)pyrene
Concen: 15.159 ng
RT: 25.201 min Scan# 31
Delta R.T. -0.013 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

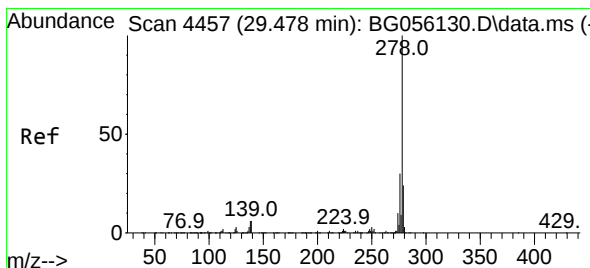
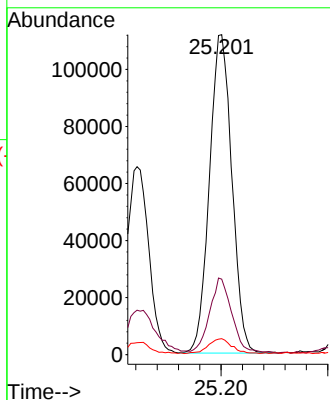
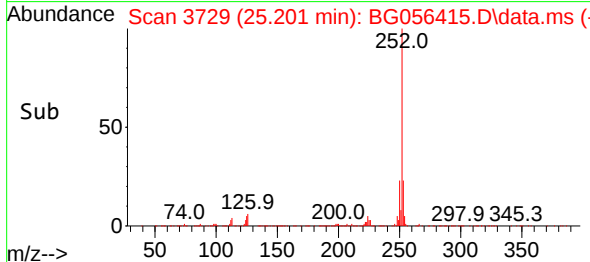
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL



Tgt Ion:252 Resp: 326900
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.2
125 5.0 3.2 4.8

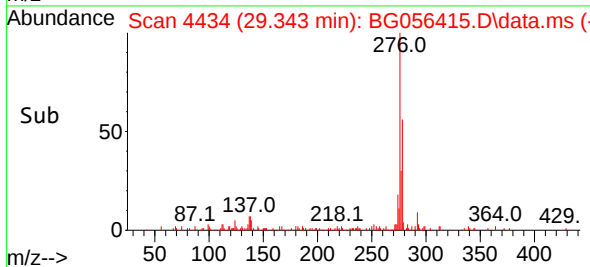
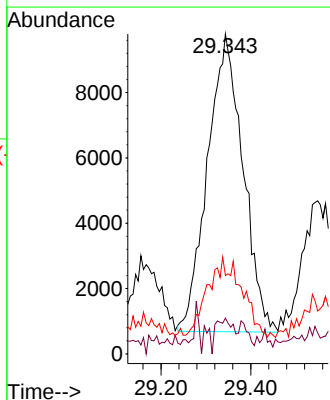
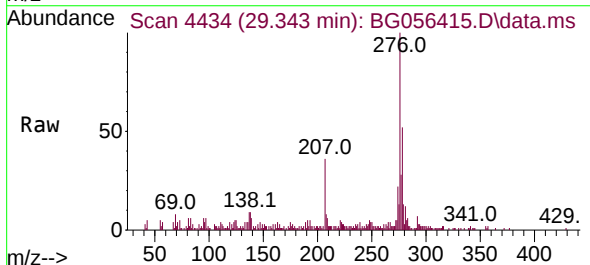
Manual Integrations
APPROVED

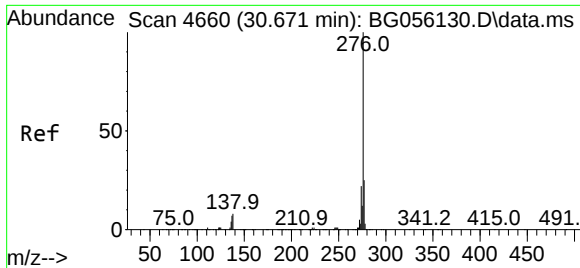
Reviewed By :Christian Giraldo 01/25/2023
Supervised By :Jagrut Upadhyay 01/25/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.354 ng
RT: 29.343 min Scan# 4434
Delta R.T. -0.049 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

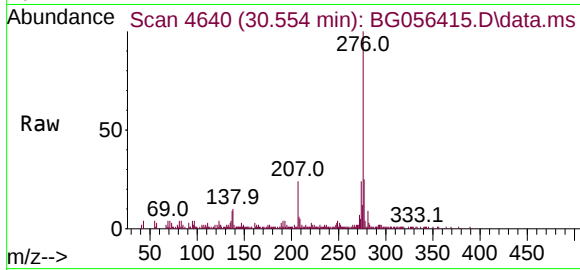
Tgt Ion:278 Resp: 49942
Ion Ratio Lower Upper
278 100
139 11.2 4.8 7.2#
279 24.5 19.0 28.4





#92
 Benzo(g,h,i)perylene
 Concen: 8.196 ng
 RT: 30.554 min Scan# 4640
 Delta R.T. -0.019 min
 Lab File: BG056415.D
 Acq: 24 Jan 2023 23:16

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-012023DL



Tgt Ion: 276 Resp: 168645
 Ion Ratio Lower Upper
 276 100
 277 24.5 19.7 29.5
 138 10.3 6.7 10.1

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/25/2023
 Supervised By : Jagrut Upadhyay 01/25/2023

