

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020223\
 Data File : BG056528.D
 Acq On : 3 Feb 2023 00:20
 Operator : CG/JU
 Sample : 01374-03DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 JC-3-13123-BDL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/03/2023
 Supervised By : Jagrut Upadhyay 02/03/2023

Quant Time: Feb 03 06:00:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 01:15:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.278	152	58109	20.000	ng	0.00
21) Naphthalene-d8	11.110	136	209969	20.000	ng	0.00
39) Acenaphthene-d10	14.900	164	148344	20.000	ng	0.00
64) Phenanthrene-d10	17.638	188	324075	20.000	ng	0.00
76) Chrysene-d12	21.927	240	305517	20.000	ng	0.00
86) Perylene-d12	25.358	264	334758	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.799	112	35676	11.294	ng	0.00
7) Phenol-d6	7.421	99	48718	10.409	ng	0.00
23) Nitrobenzene-d5	9.453	82	26913	7.278	ng	0.00
42) 2,4,6-Tribromophenol	16.381	330	18049	9.152	ng	0.00
45) 2-Fluorobiphenyl	13.519	172	81166	7.586	ng	0.00
79) Terphenyl-d14	20.211	244	120229	6.912	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.163	128	102912	9.286	ng	98
37) 2-Methylnaphthalene	12.744	142	27965	3.061	ng	95
38) 1-Methylnaphthalene	12.961	142	20282	2.377	ng	97
52) Acenaphthene	14.959	154	34679	4.274	ng	99
55) Dibenzofuran	15.294	168	60862	4.182	ng	98
58) Fluorene	15.940	166	72026	6.220	ng	99
71) Phenanthrene	17.679	178	555456	32.748	ng	99
72) Anthracene	17.767	178	112313	6.451	ng	100
73) Carbazole	18.038	167	52554	3.544	ng	98
75) Fluoranthene	19.677	202	570878	26.667	ng	100
78) Pyrene	20.035	202	495151	22.788	ng	98
81) Benzo(a)anthracene	21.909	228	231942	10.859	ng	98
83) Chrysene	21.980	228	198239	9.879	ng	99
87) Indeno(1,2,3-cd)pyrene	29.289	276	112748	4.601	ng	# 94
88) Benzo(b)fluoranthene	24.260	252	258530	12.442	ng	97
89) Benzo(k)fluoranthene	24.324	252	100886m	4.809	ng	
90) Benzo(a)pyrene	25.194	252	215658	10.537	ng	100
92) Benzo(g,h,i)perylene	30.546	276	97650	4.920	ng	95

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

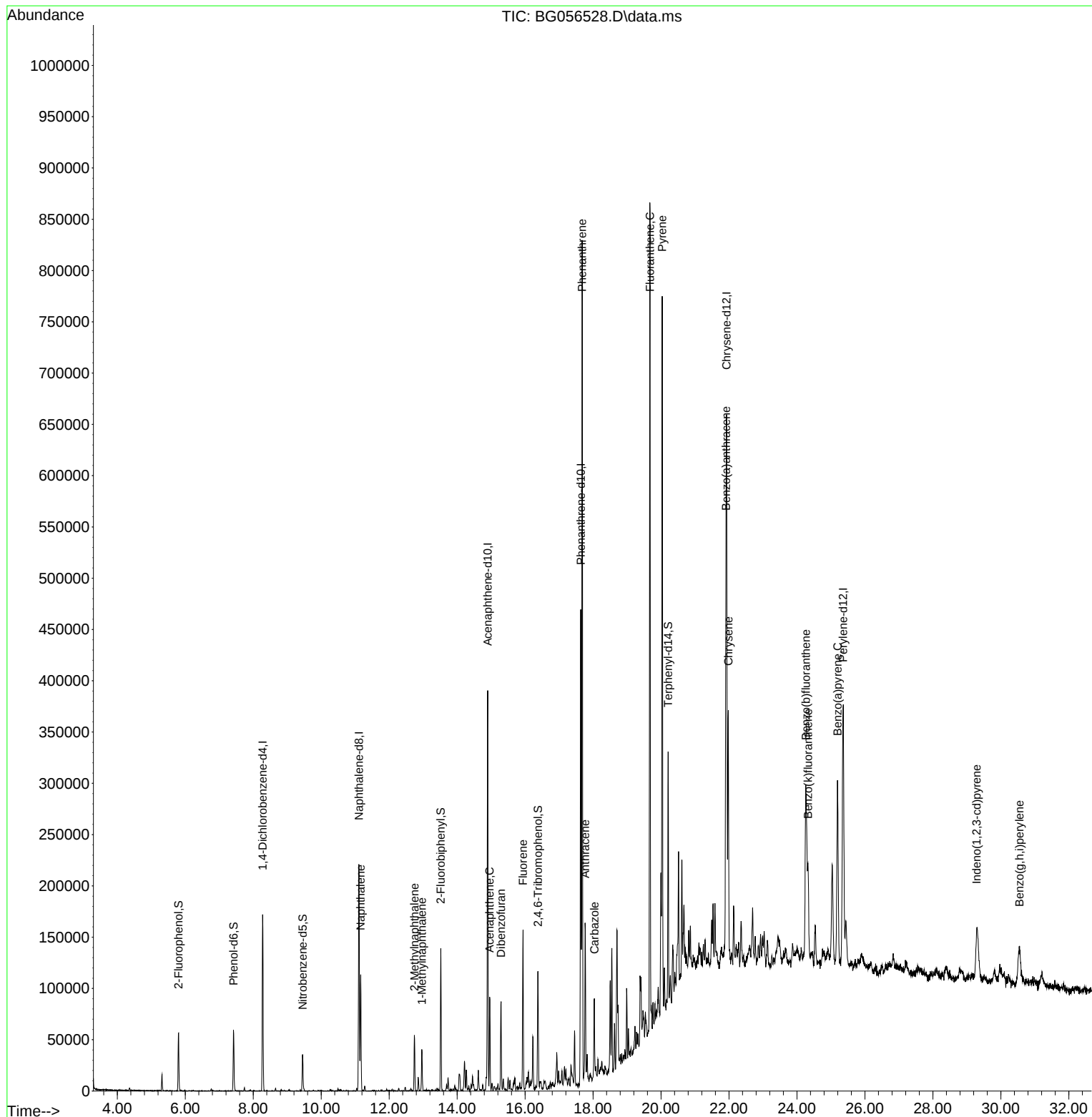
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020223\
Data File : BG056528.D
Acq On : 3 Feb 2023 00:20
Operator : CG/JU
Sample : 01374-03DL 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

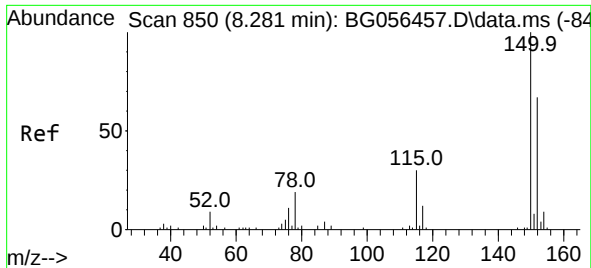
Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL

Quant Time: Feb 03 06:00:55 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 01:15:52 2023
Response via : Initial Calibration

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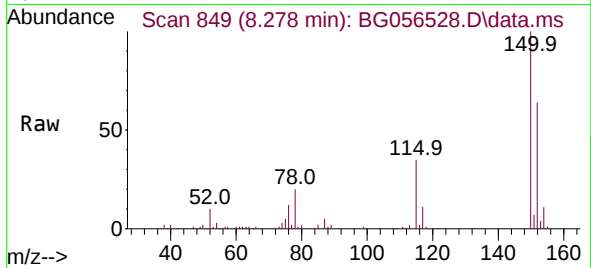
Reviewed By : Christian Giraldo 02/03/2023
Supervised By : Jagrut Upadhyay 02/03/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.278 min Scan# 84
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

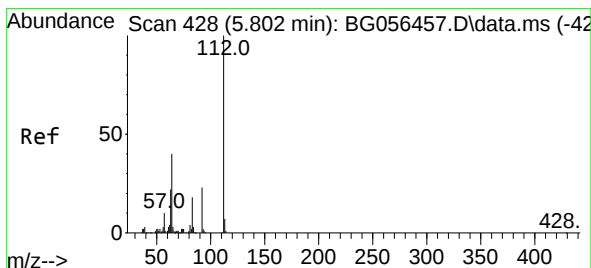
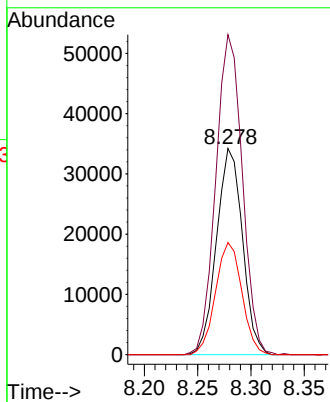
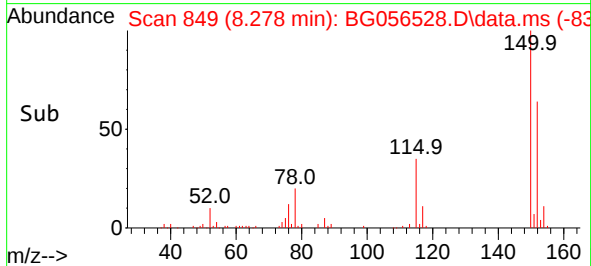
Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL



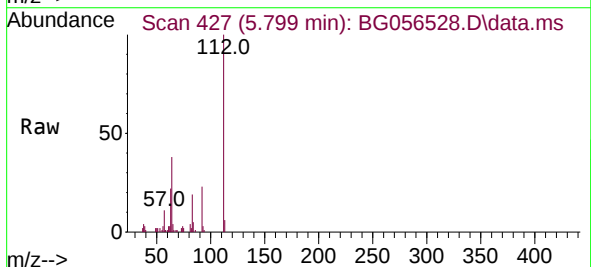
Tgt Ion:152 Resp: 58109
Ion Ratio Lower Upper
152 100
150 155.3 120.2 180.4
115 54.4 36.3 54.5

Manual Integrations
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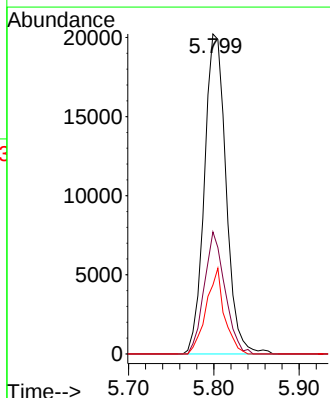
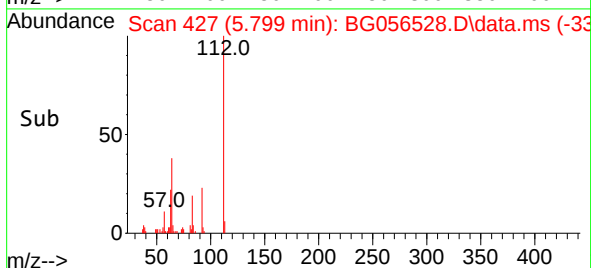
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

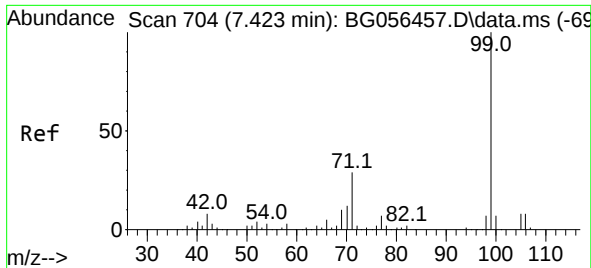


#5
2-Fluorophenol
Concen: 11.294 ng
RT: 5.799 min Scan# 427
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20



Tgt Ion:112 Resp: 35676
Ion Ratio Lower Upper
112 100
64 38.1 31.9 47.9
63 21.6 17.4 26.0





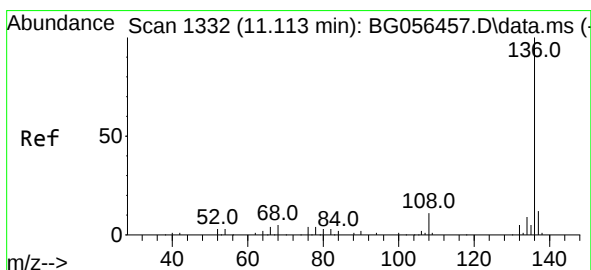
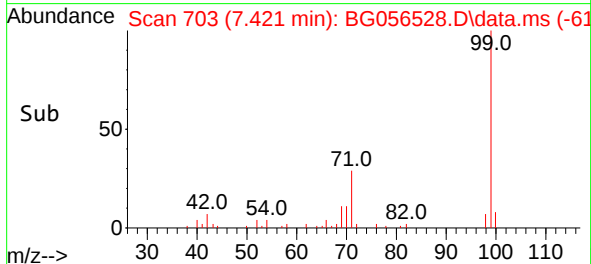
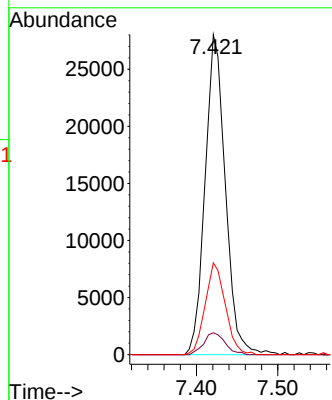
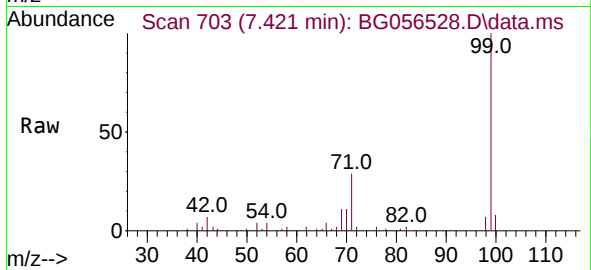
#7
Phenol-d6
Concen: 10.409 ng
RT: 7.421 min Scan# 704
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL

Tgt Ion: 99 Resp: 48718
Ion Ratio Lower Upper
99 100
42 6.8 6.6 10.0
71 28.7 23.4 35.0

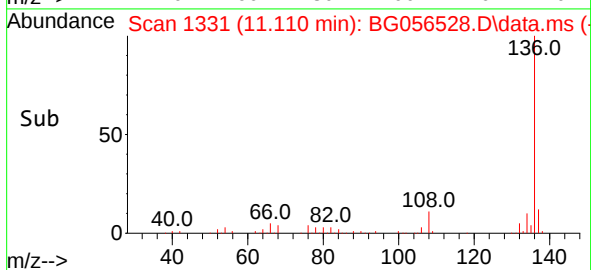
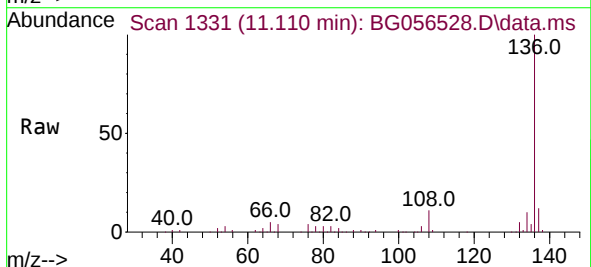
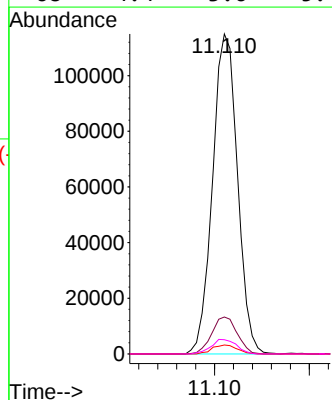
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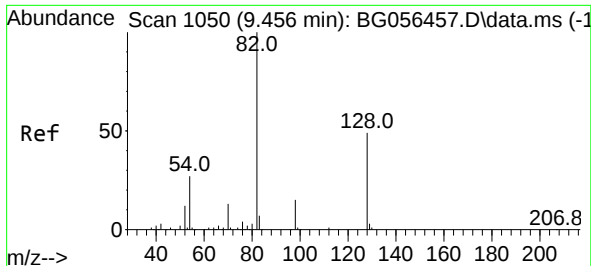
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.110 min Scan# 1331
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Tgt Ion:136 Resp: 209969
Ion Ratio Lower Upper
136 100
137 11.6 9.4 14.0
54 2.8 2.2 3.4
68 4.4 3.6 5.4





#23

Nitrobenzene-d5

Concen: 7.278 ng

RT: 9.453 min Scan# 1049

Delta R.T. -0.003 min

Lab File: BG056528.D

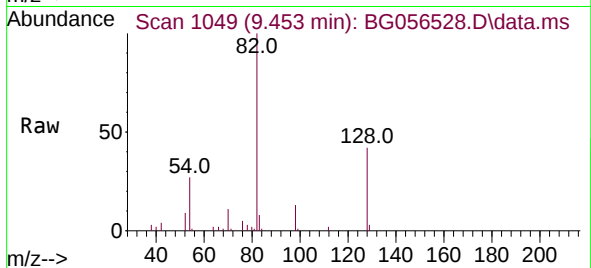
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Instrument :

BNA_G

ClientSampleId :

JC-3-13123-BDL



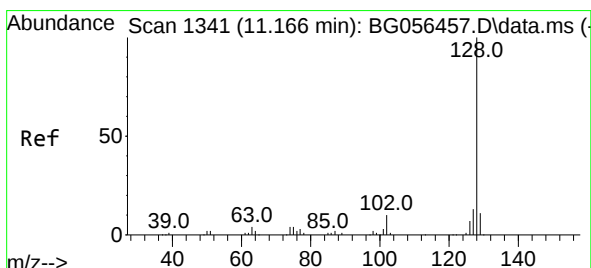
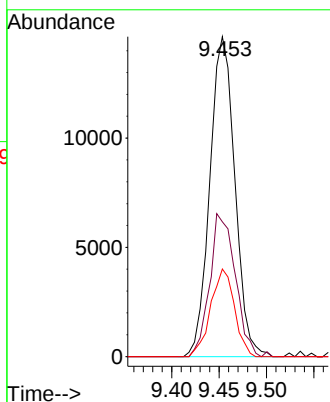
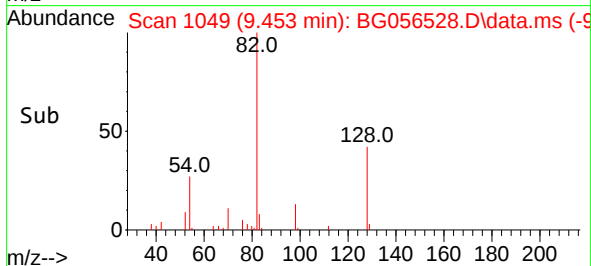
Tgt Ion:	82	Resp:	26913
Ion	Ratio	Lower	Upper
82	100		
128	42.1	39.4	59.2
54	27.4	21.4	32.2

Manual Integrations

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#31

Naphthalene

Concen: 9.286 ng

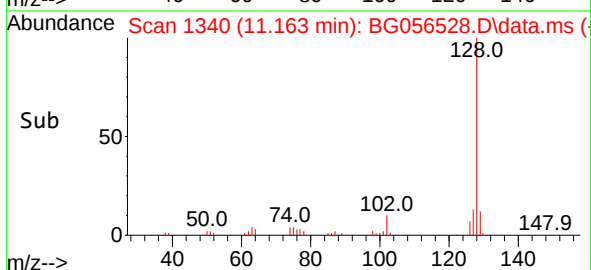
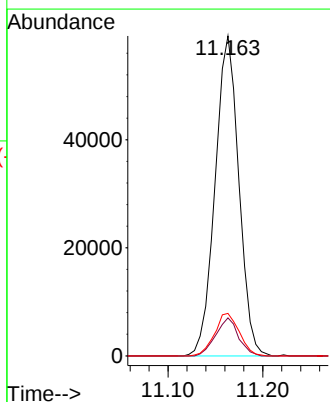
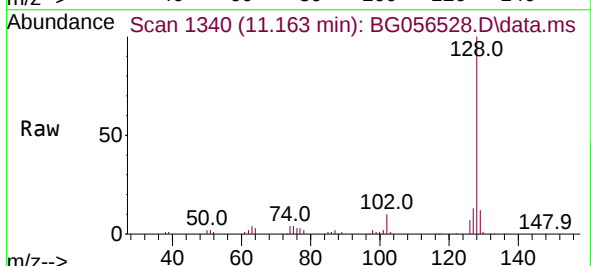
RT: 11.163 min Scan# 1340

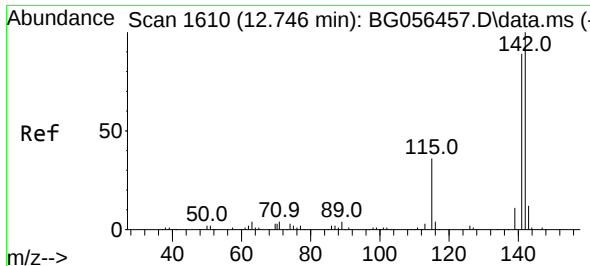
Delta R.T. 0.003 min

Lab File: BG056528.D

Acq: 3 Feb 2023 00:20

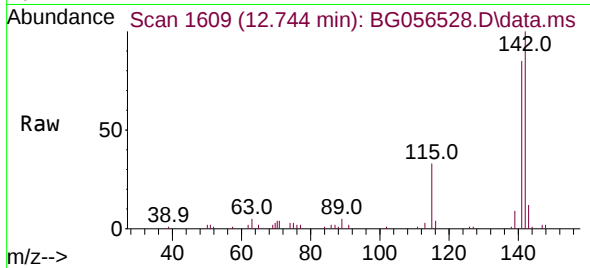
Tgt Ion:	128	Resp:	102912
Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.7	13.1
127	13.3	10.4	15.6





#37
2-Methylnaphthalene
Concen: 3.061 ng
RT: 12.744 min Scan# 1609
Delta R.T. -0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

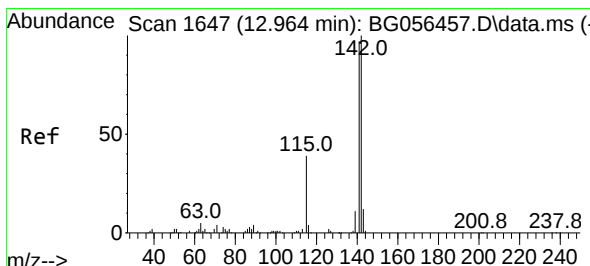
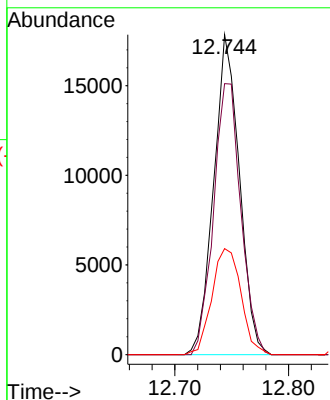
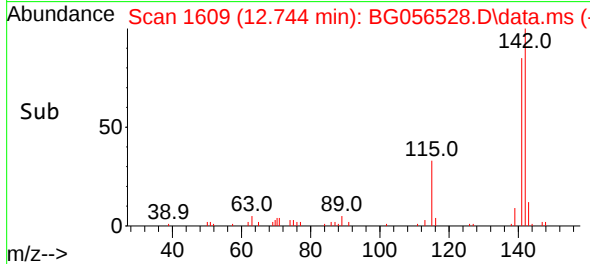
Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL



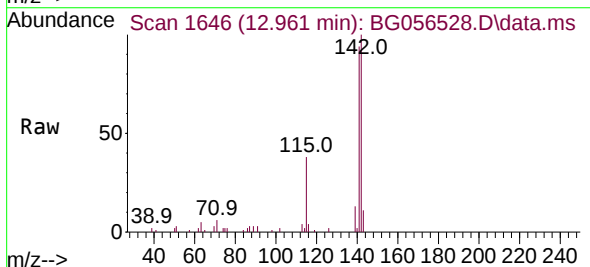
Tgt Ion:142 Resp: 27965
Ion Ratio Lower Upper
142 100
141 84.7 71.4 107.0
115 33.1 28.4 42.6

Manual Integrations
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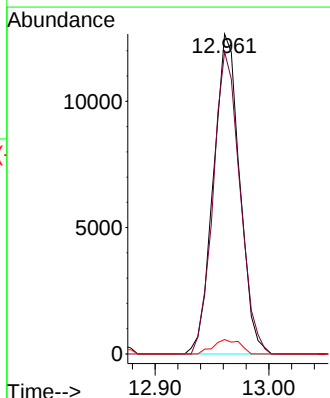
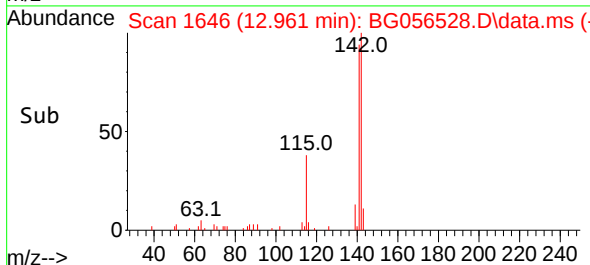
Reviewed By :Christian Giraldo 02/03/2023
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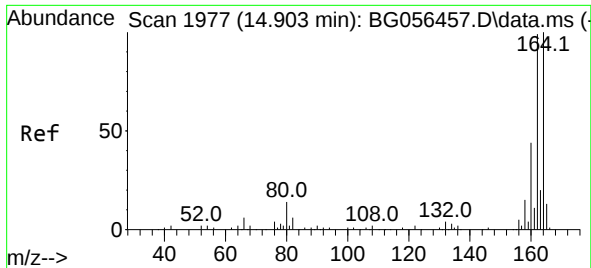


#38
1-Methylnaphthalene
Concen: 2.377 ng
RT: 12.961 min Scan# 1646
Delta R.T. -0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20



Tgt Ion:142 Resp: 20282
Ion Ratio Lower Upper
142 100
141 94.4 77.7 116.5
116 4.5 3.4 5.2





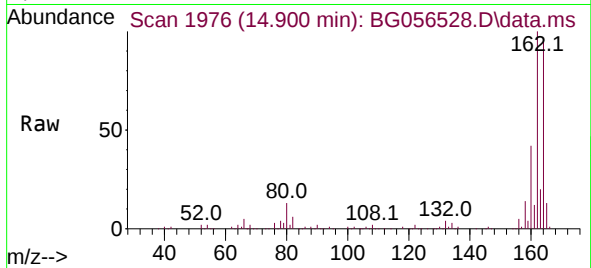
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.900 min Scan# 1977
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Instrument :

BNA_G

ClientSampleId :

JC-3-13123-BDL

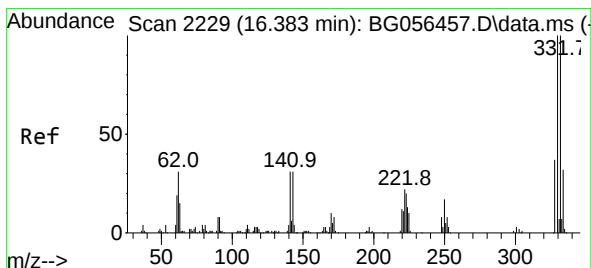
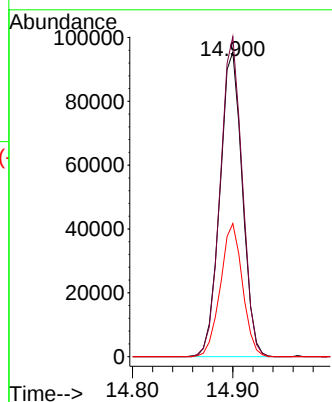
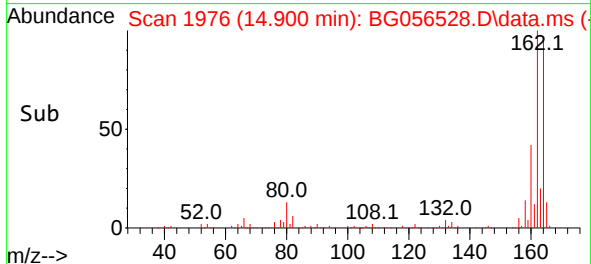


Tgt Ion:164 Resp: 148344
Ion Ratio Lower Upper
164 100
162 105.1 79.6 119.4
160 43.7 34.9 52.3

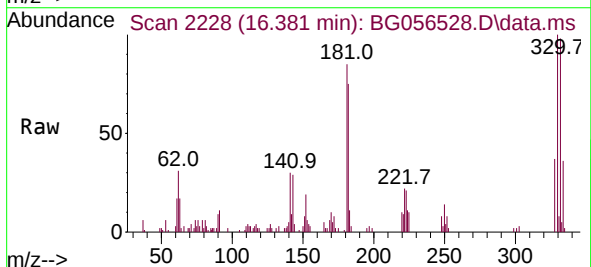
Manual Integrations

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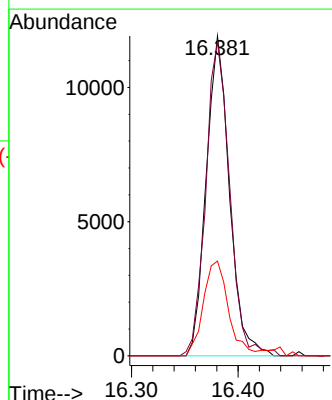
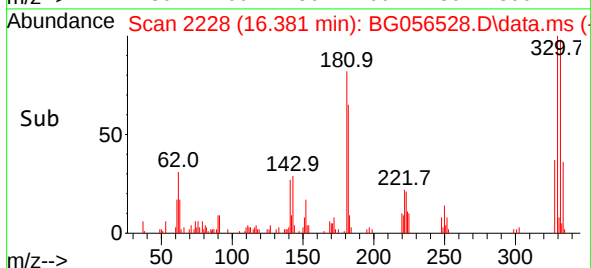
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

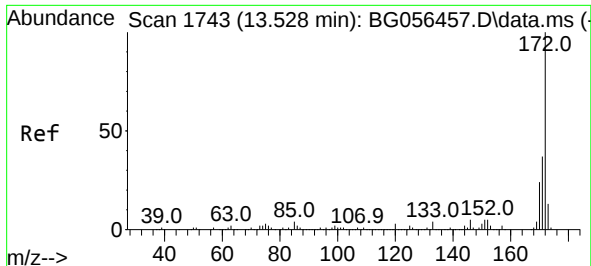


#42
2,4,6-Tribromophenol
Concen: 9.152 ng
RT: 16.381 min Scan# 2228
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20



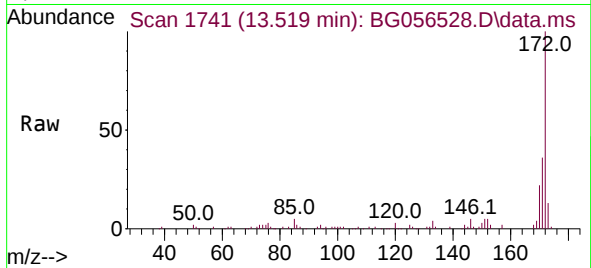
Tgt Ion:330 Resp: 18049
Ion Ratio Lower Upper
330 100
332 101.1 79.0 118.6
141 31.7 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 7.586 ng
RT: 13.519 min Scan# 1741
Delta R.T. -0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

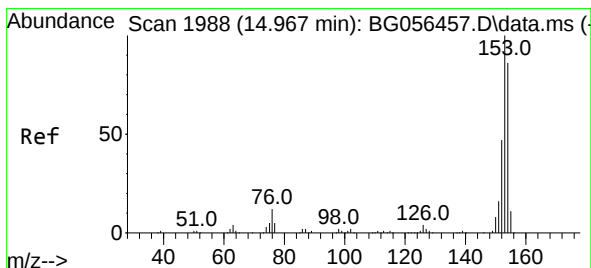
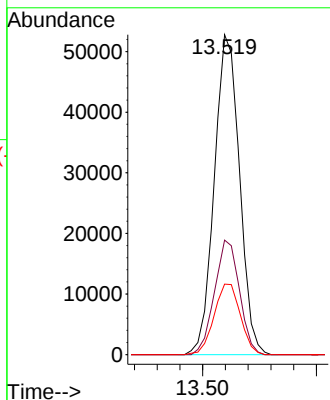
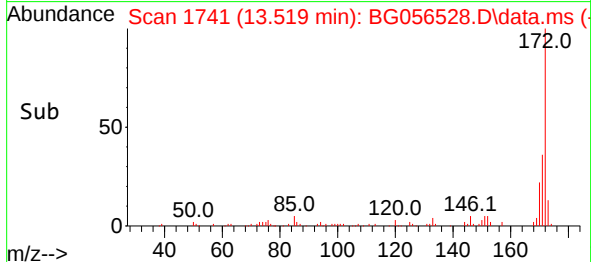
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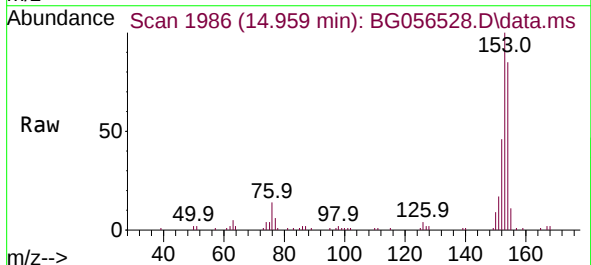
Tgt Ion:172 Resp: 81166
Ion Ratio Lower Upper
172 100
171 35.8 29.5 44.3
170 22.0 19.2 28.8

Manual Integrations
APPROVED

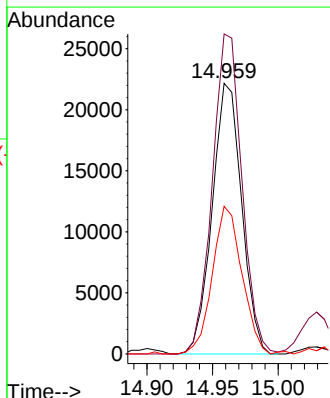
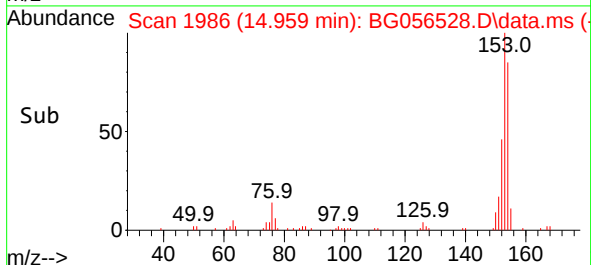
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

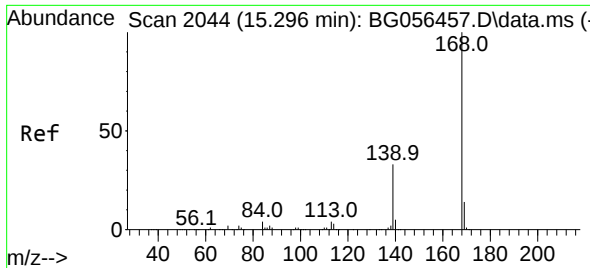


#52
Acenaphthene
Concen: 4.274 ng
RT: 14.959 min Scan# 1986
Delta R.T. -0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20



Tgt Ion:154 Resp: 34679
Ion Ratio Lower Upper
154 100
153 118.2 93.4 140.0
152 54.5 43.4 65.2





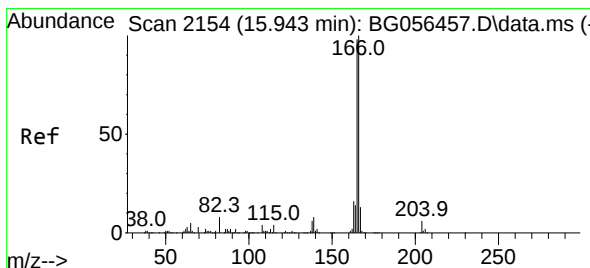
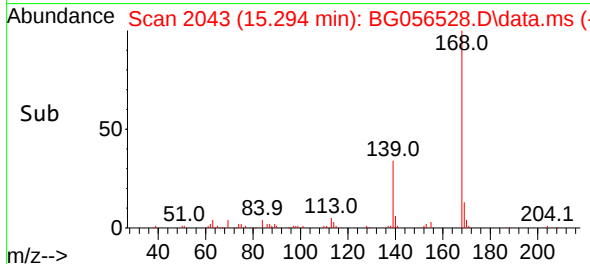
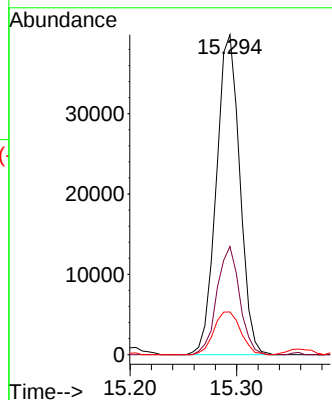
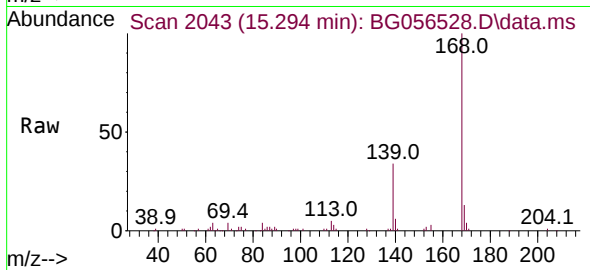
#55
Dibenzenofuran
Concen: 4.182 ng
RT: 15.294 min Scan# 2043
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL

Tgt Ion:168 Resp: 60862
Ion Ratio Lower Upper
168 100
139 33.8 26.2 39.2
169 13.3 11.0 16.6

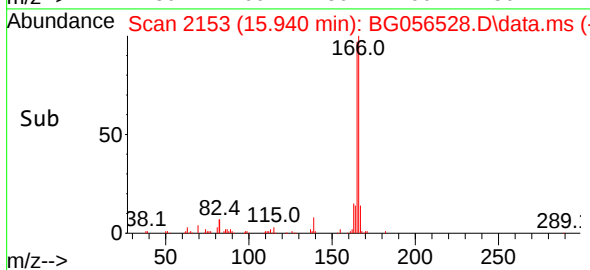
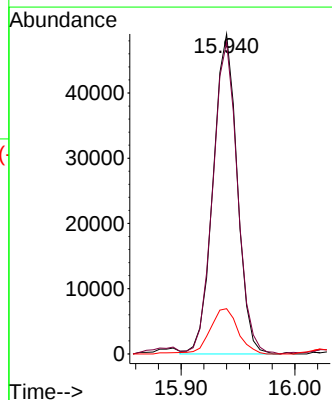
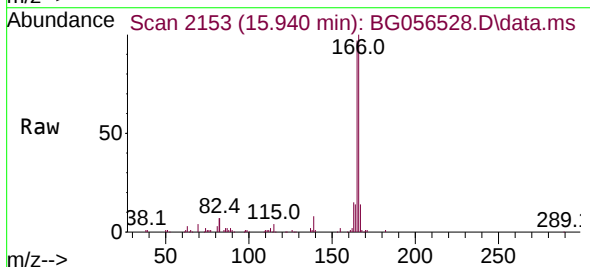
Manual Integrations
APPROVED

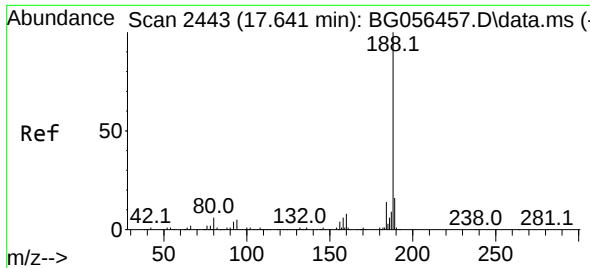
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#58
Fluorene
Concen: 6.220 ng
RT: 15.940 min Scan# 2153
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Tgt Ion:166 Resp: 72026
Ion Ratio Lower Upper
166 100
165 97.4 78.8 118.2
167 14.1 10.6 15.8





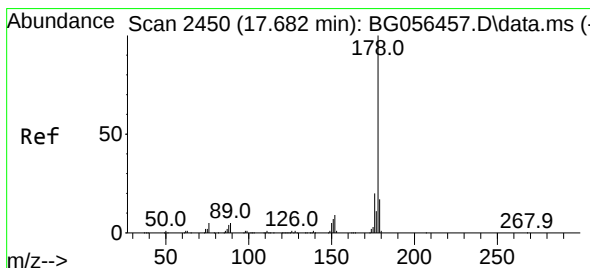
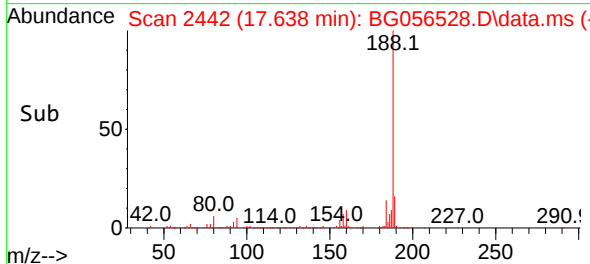
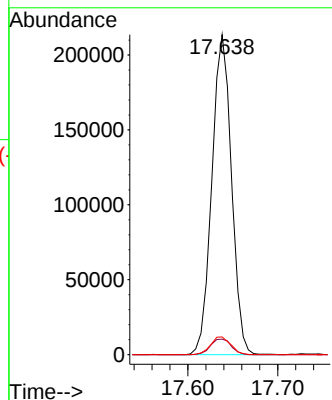
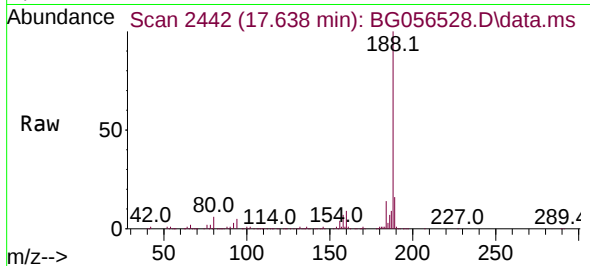
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.638 min Scan# 2443
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL

Tgt Ion:188 Resp: 324075
Ion Ratio Lower Upper
188 100
94 4.8 4.1 6.1
80 5.5 5.0 7.4

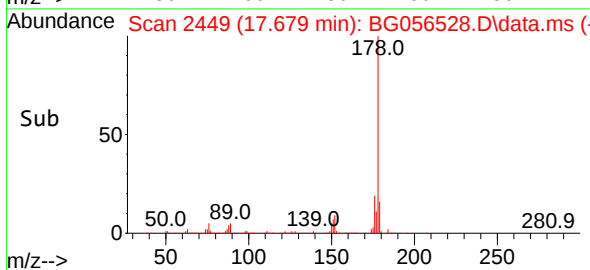
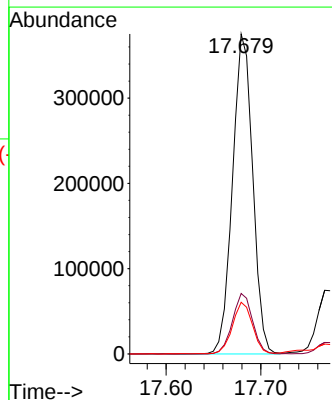
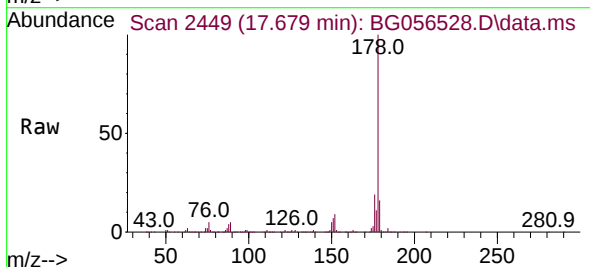
Manual Integrations
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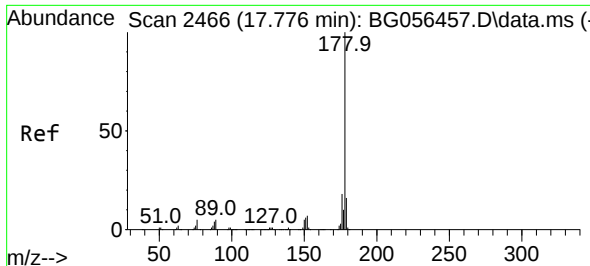
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#71
Phenanthrene
Concen: 32.748 ng
RT: 17.679 min Scan# 2449
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

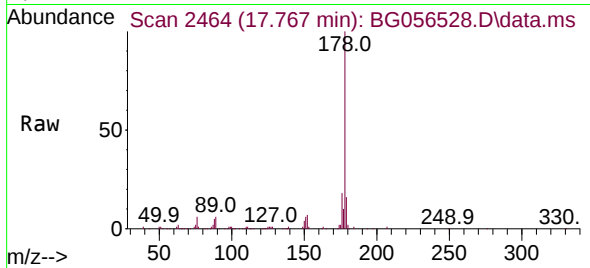
Tgt Ion:178 Resp: 555456
Ion Ratio Lower Upper
178 100
176 18.9 15.6 23.4
179 16.1 13.3 19.9





#72
 Anthracene
 Concen: 6.451 ng
 RT: 17.767 min Scan# 2466
 Delta R.T. -0.003 min
 Lab File: BG056528.D
 Acq: 3 Feb 2023 00:20

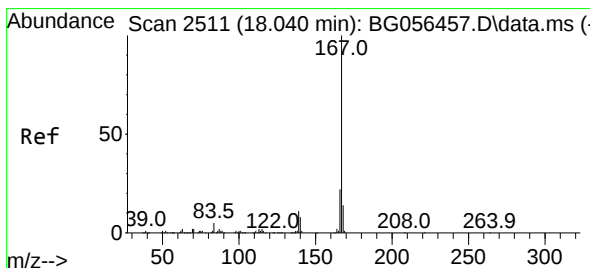
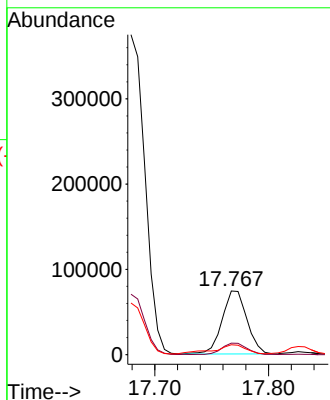
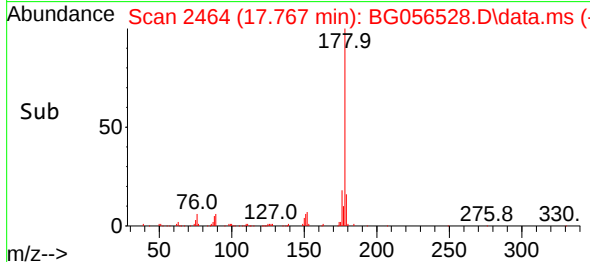
Instrument :
 BNA_G
 ClientSampleId :
 JC-3-13123-BDL



Tgt Ion:178 Resp: 112313
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.5 21.7
 179 15.5 12.5 18.7

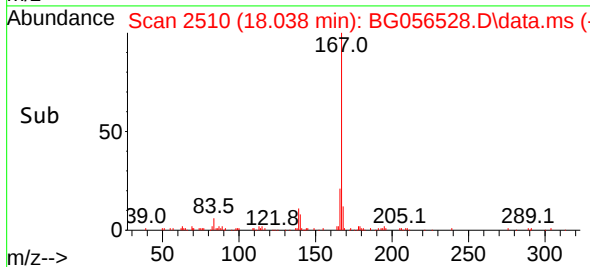
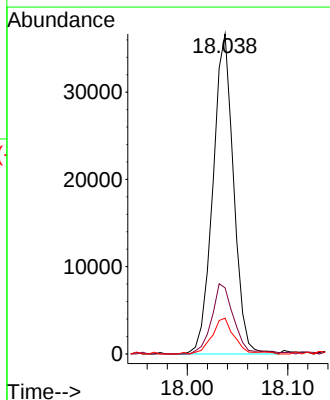
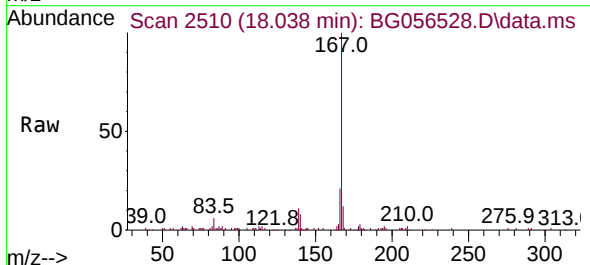
Manual Integrations
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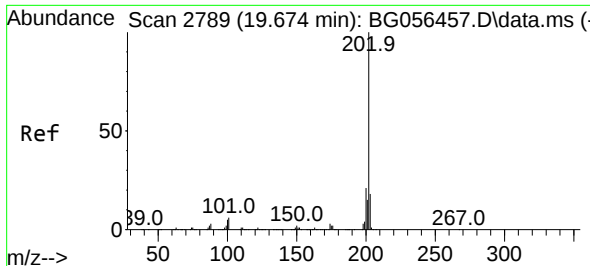
Reviewed By :Christian Giraldo 02/03/2023
 Supervised By :Jagrut Upadhyay 02/03/2023



#73
 Carbazole
 Concen: 3.544 ng
 RT: 18.038 min Scan# 2510
 Delta R.T. 0.003 min
 Lab File: BG056528.D
 Acq: 3 Feb 2023 00:20

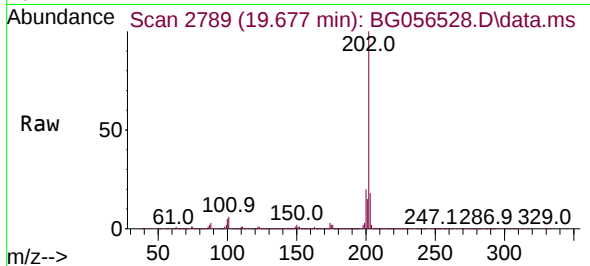
Tgt Ion:167 Resp: 52554
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.8 26.6
 139 11.2 8.9 13.3





#75
Fluoranthene
Concen: 26.667 ng
RT: 19.677 min Scan# 21
Delta R.T. 0.009 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

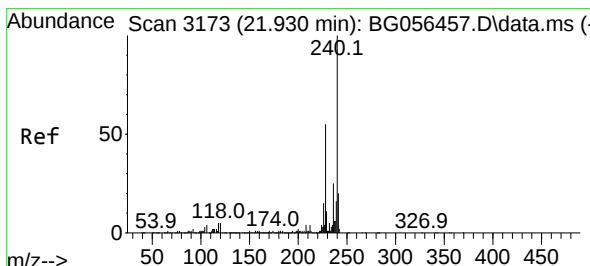
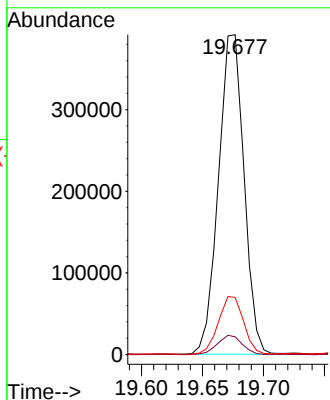
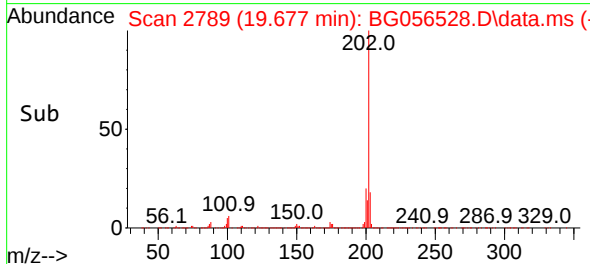
Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL



Tgt Ion:202 Resp: 570878
Ion Ratio Lower Upper
202 100
101 5.6 0.0 25.6
203 17.9 0.0 38.1

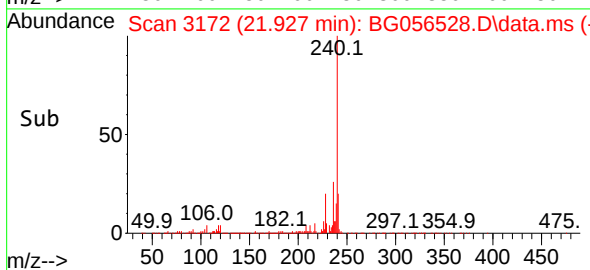
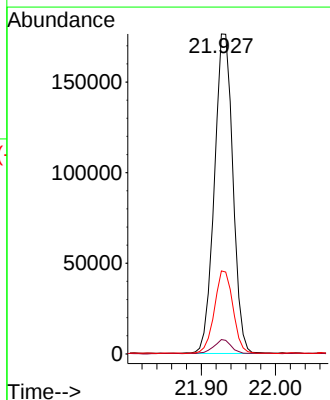
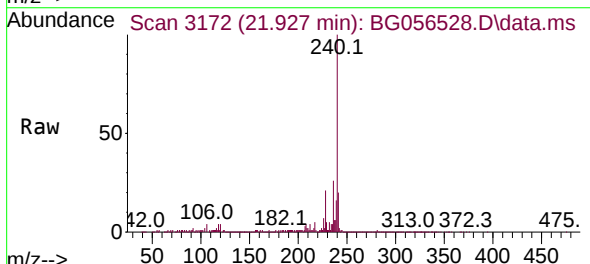
Manual Integrations
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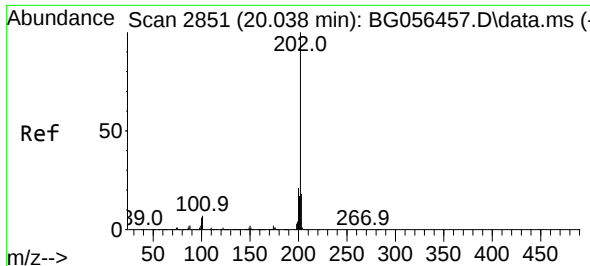
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.927 min Scan# 3172
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Tgt Ion:240 Resp: 305517
Ion Ratio Lower Upper
240 100
120 4.5 3.8 5.8
236 25.9 20.2 30.2





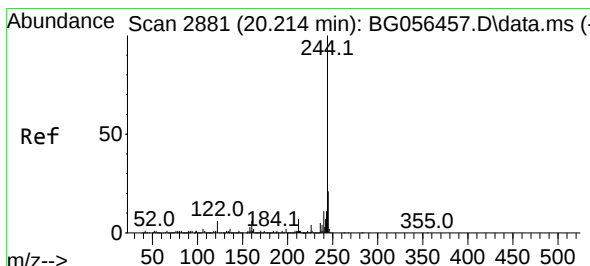
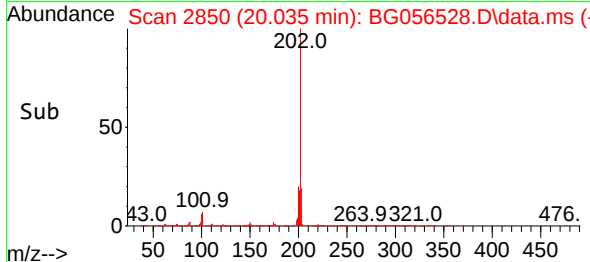
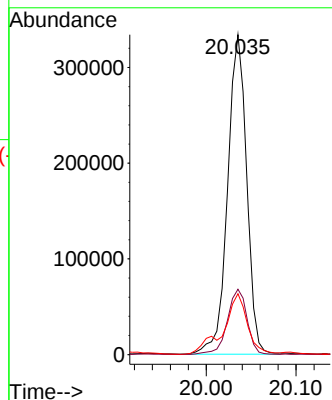
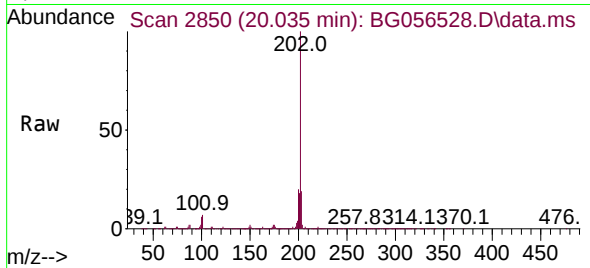
#78
Pyrene
Concen: 22.788 ng
RT: 20.035 min Scan# 2850
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL

Tgt Ion:202 Resp: 49515
Ion Ratio Lower Upper
202 100
200 20.4 16.7 25.1
203 19.0 14.4 21.6

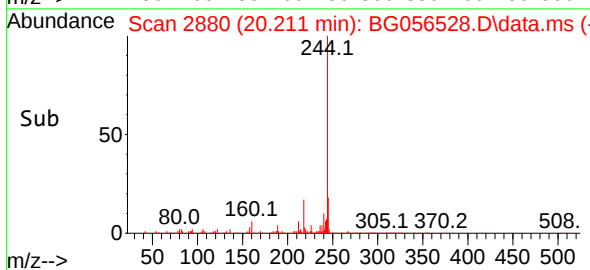
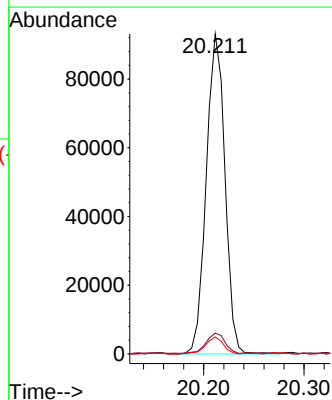
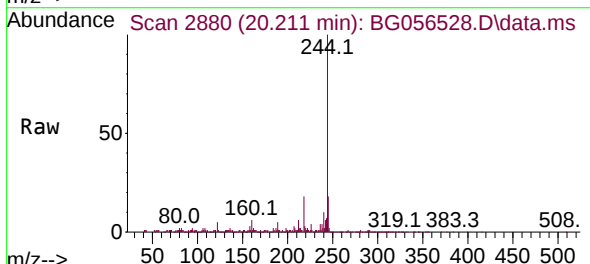
Manual Integrations
APPROVED

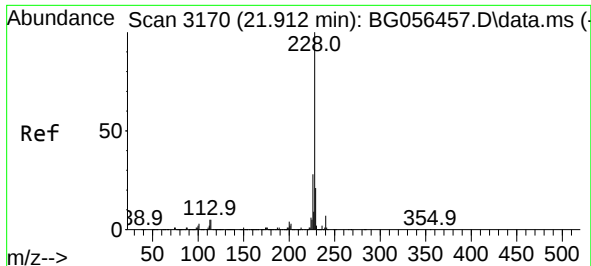
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#79
Terphenyl-d14
Concen: 6.912 ng
RT: 20.211 min Scan# 2880
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

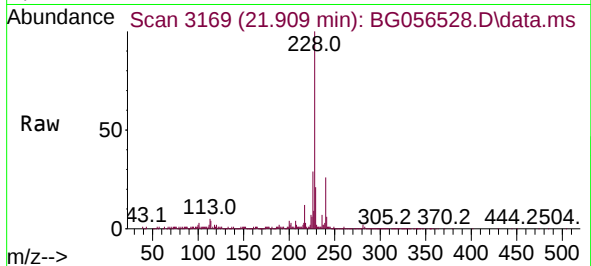
Tgt Ion:244 Resp: 120229
Ion Ratio Lower Upper
244 100
212 6.5 5.5 8.3
122 5.3 4.4 6.6





#81
Benzo(a)anthracene
Concen: 10.859 ng
RT: 21.909 min Scan# 3170
Delta R.T. 0.009 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

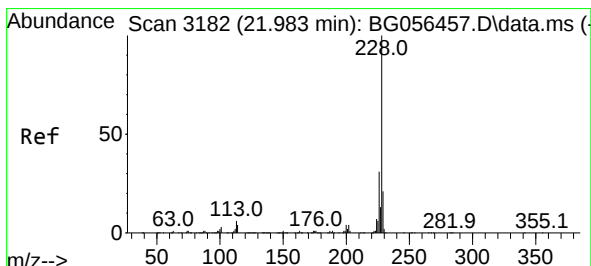
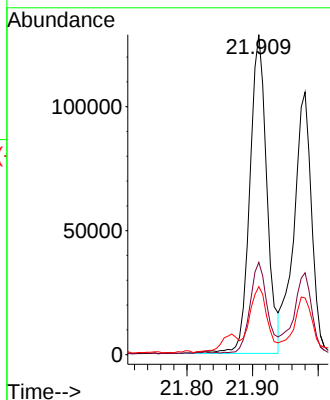
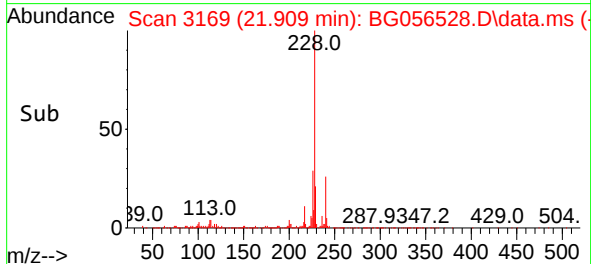
Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL



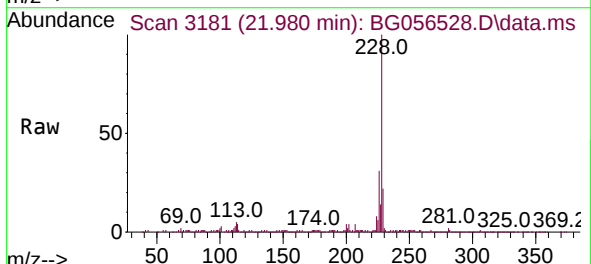
Tgt Ion:228 Resp: 231942
Ion Ratio Lower Upper
228 100
226 28.8 22.4 33.6
229 21.3 16.5 24.7

Manual Integrations
APPROVED

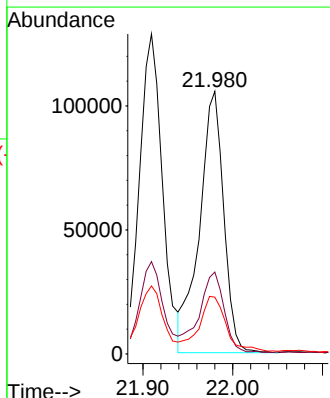
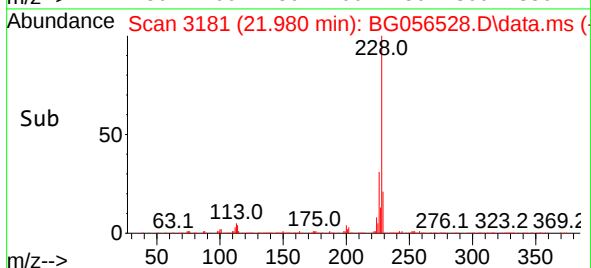
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

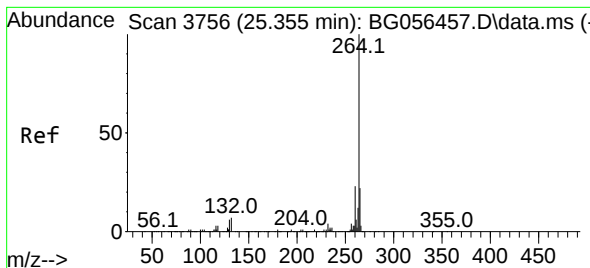


#83
Chrysene
Concen: 9.879 ng
RT: 21.980 min Scan# 3181
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20



Tgt Ion:228 Resp: 198239
Ion Ratio Lower Upper
228 100
226 31.2 25.0 37.4
229 21.6 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.358 min Scan# 31

Delta R.T. 0.015 min

Lab File: BG056528.D

Acq: 3 Feb 2023 00:20

Instrument :

BNA_G

ClientSampleId :

JC-3-13123-BDL

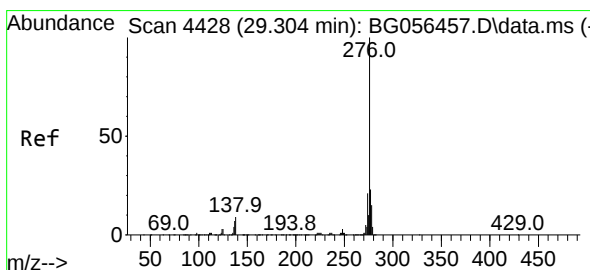
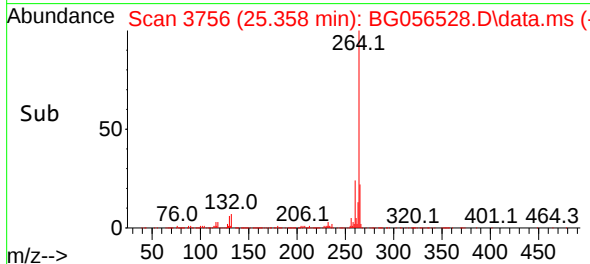
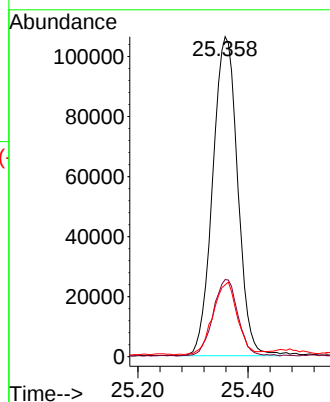
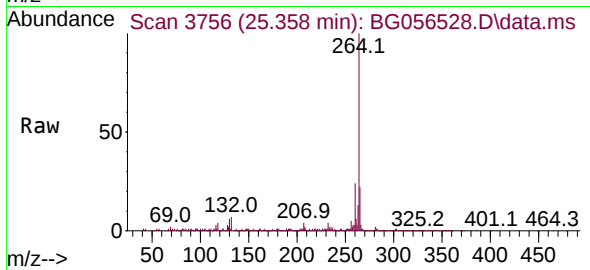
Tgt Ion:264 Resp: 334758

Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.2	27.4
265	22.4	18.1	27.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.601 ng

RT: 29.289 min Scan# 4425

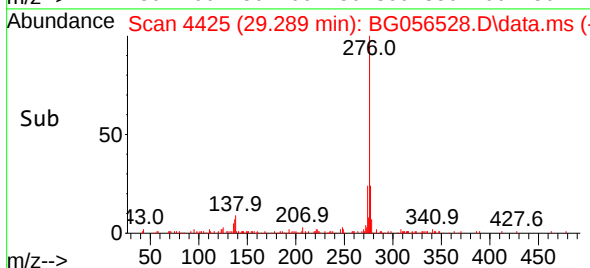
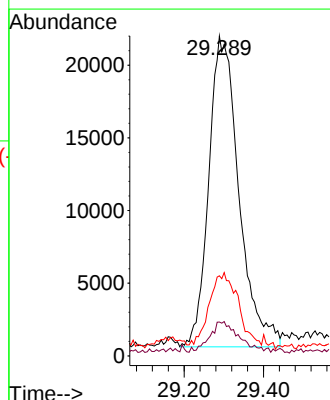
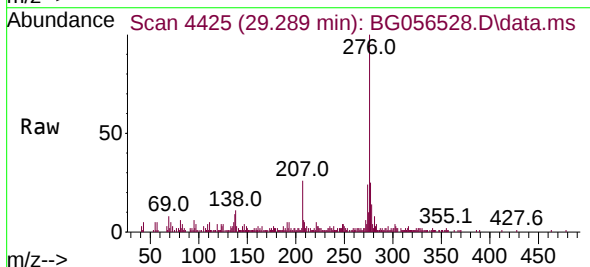
Delta R.T. 0.009 min

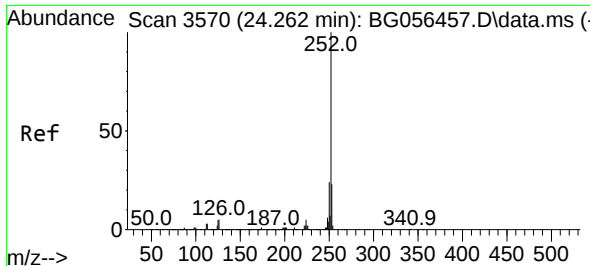
Lab File: BG056528.D

Acq: 3 Feb 2023 00:20

Tgt Ion:276 Resp: 112748

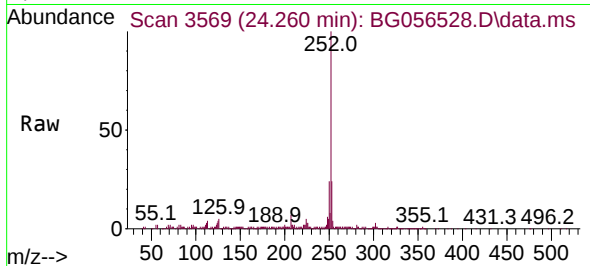
Ion	Ratio	Lower	Upper
276	100		
138	9.0	9.4	14.2#
277	22.9	20.3	30.5





#88
Benzo(b)fluoranthene
Concen: 12.442 ng
RT: 24.260 min Scan# 3570
Delta R.T. 0.009 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

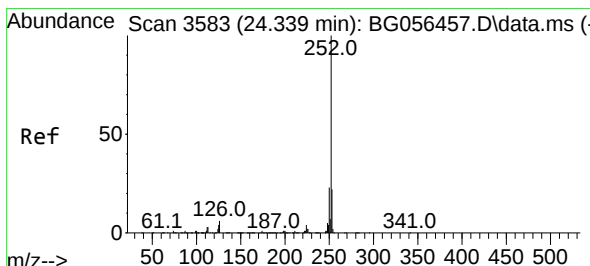
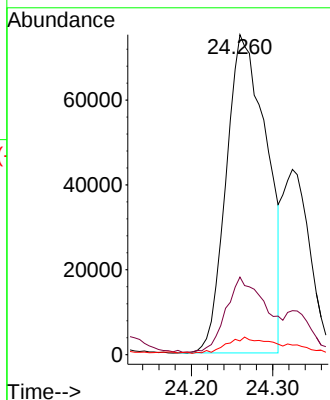
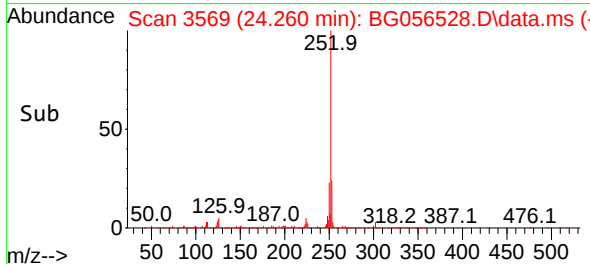
Instrument :
BNA_G
ClientSampleId :
JC-3-13123-BDL



Tgt Ion:252 Resp: 258530
Ion Ratio Lower Upper
252 100
253 24.2 18.1 27.1
125 4.3 3.9 5.9

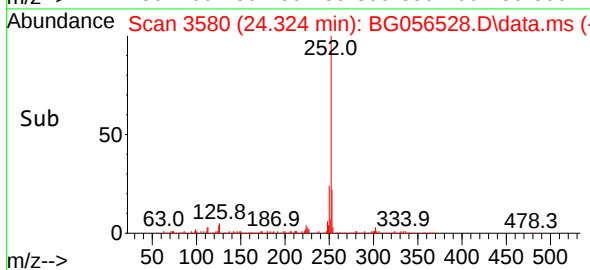
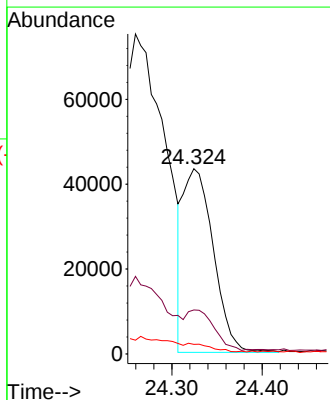
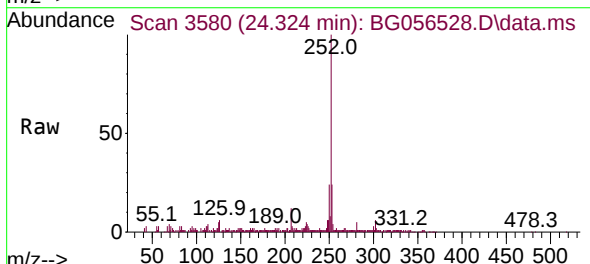
Manual Integrations
APPROVED

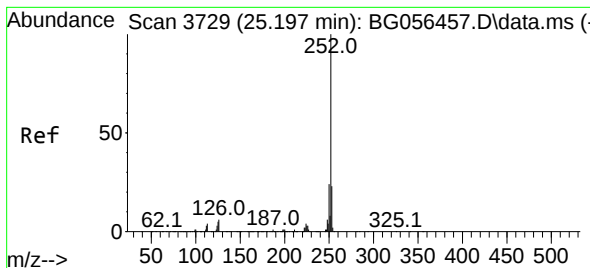
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#89
Benzo(k)fluoranthene
Concen: 4.809 ng m
RT: 24.324 min Scan# 3580
Delta R.T. 0.003 min
Lab File: BG056528.D
Acq: 3 Feb 2023 00:20

Tgt Ion:252 Resp: 100886
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 5.1 3.4 5.0#





#90

Benzo(a)pyrene

Concen: 10.537 ng

RT: 25.194 min Scan# 31

Delta R.T. 0.009 min

Lab File: BG056528.D

Acq: 3 Feb 2023 00:20

Instrument :

BNA_G

ClientSampleId :

JC-3-13123-BDL

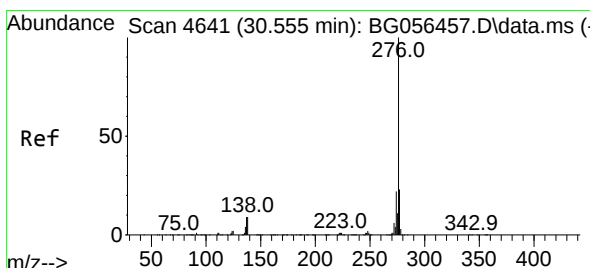
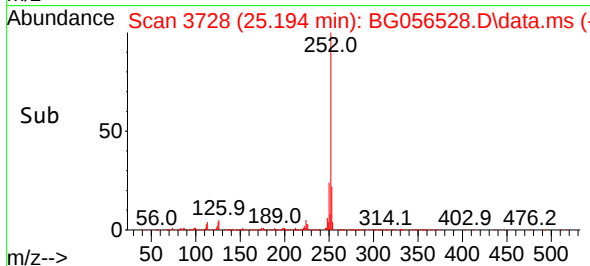
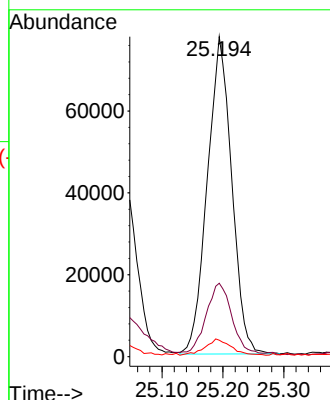
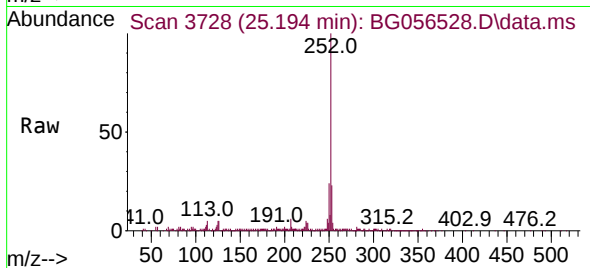
Tgt Ion:252 Resp: 215658

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	5.1	4.1	6.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#92

Benzo(g,h,i)perylene

Concen: 4.920 ng

RT: 30.546 min Scan# 4639

Delta R.T. 0.021 min

Lab File: BG056528.D

Acq: 3 Feb 2023 00:20

Tgt Ion:276 Resp: 97650

Ion	Ratio	Lower	Upper
276	100		
277	19.8	18.5	27.7
138	9.3	7.4	11.0

