

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052323\
 Data File : BG057528.D
 Acq On : 23 May 2023 20:44
 Operator : CG/JU
 Sample : 02892-13
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-29

Quant Time: May 24 04:35:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat May 20 04:19:55 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Christian
 Giraldo

05/24/2023
 Supervised By :mohammad
 ahmed

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.357	152	20980	20.000	ng	0.00
21) Naphthalene-d8	11.194	136	81260	20.000	ng	0.00
39) Acenaphthene-d10	14.971	164	57529	20.000	ng	0.00
64) Phenanthrene-d10	17.715	188	130975	20.000	ng	0.00
76) Chrysene-d12	22.032	240	117474	20.000	ng	0.01
86) Perylene-d12	25.551	264	123647	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.878	112	82090	66.932	ng	0.00
7) Phenol-d6	7.499	99	118445	63.597	ng	0.00
23) Nitrobenzene-d5	9.537	82	76652	39.591	ng	0.00
42) 2,4,6-Tribromophenol	16.458	330	54409	66.655	ng	0.00
45) 2-Fluorobiphenyl	13.597	172	158876	37.194	ng	0.00
79) Terphenyl-d14	20.282	244	224286	31.157	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	11.241	128	31116	7.163	ng	99
37) 2-Methylnaphthalene	12.821	142	9618	2.816	ng	97
55) Dibenzofuran	15.365	168	15307	2.827	ng	96
58) Fluorene	16.011	166	12175	2.730	ng	# 97
71) Phenanthrene	17.756	178	214089	31.899	ng	99
72) Anthracene	17.844	178	48845	7.093	ng	98
73) Carbazole	18.114	167	22881	3.947	ng	96
75) Fluoranthene	19.747	202	629155	75.373	ng	98
78) Pyrene	20.111	202	642983	75.323	ng	98
81) Benzo(a)anthracene	22.009	228	405098	48.401	ng	98
83) Chrysene	22.079	228	380807	48.357	ng	96
87) Indeno(1,2,3-cd)pyrene	29.604	276	184890	20.517	ng	# 92
88) Benzo(b)fluoranthene	24.429	252	531851	65.801	ng	# 94
89) Benzo(k)fluoranthene	24.482	252	249230m	30.344	ng	
90) Benzo(a)pyrene	25.387	252	446548	56.550	ng	93
91) Dibenzo(a,h)anthracene	29.640	278	42959	5.724	ng	# 83
92) Benzo(g,h,i)perylene	30.897	276	167274m	22.827	ng	

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

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TP-29

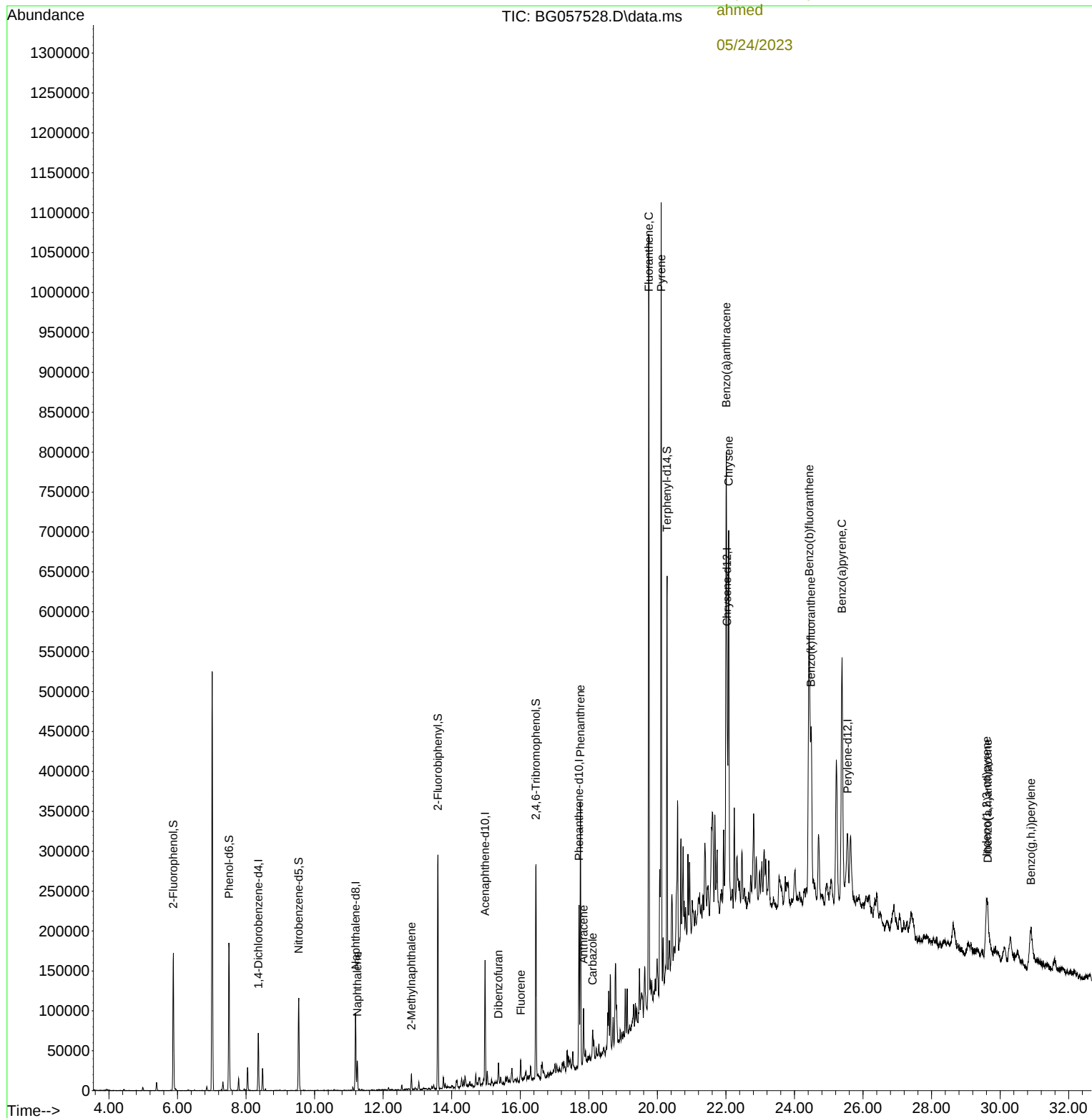
Quant Time: May 24 04:35:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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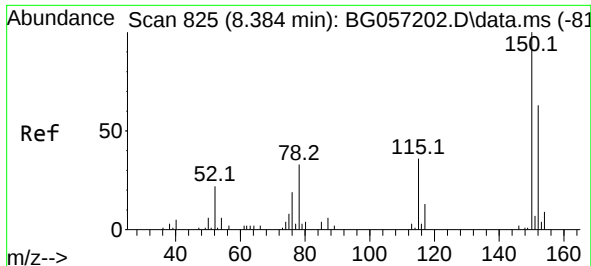
Manual Integrations
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Giraldo

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ahmed

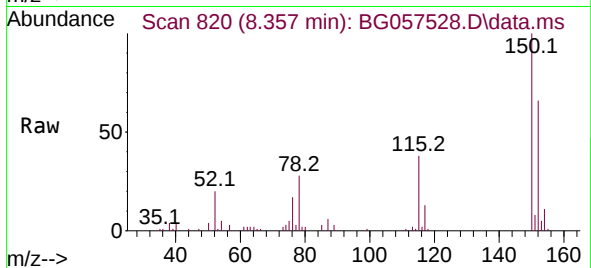
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.357 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



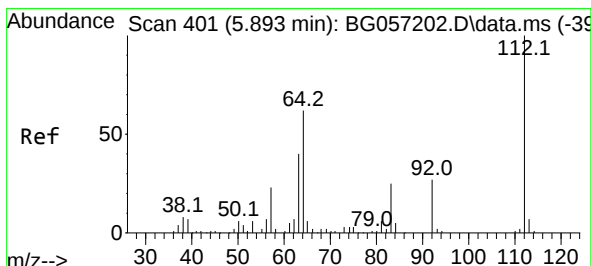
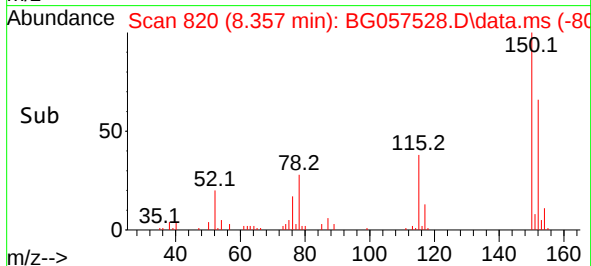
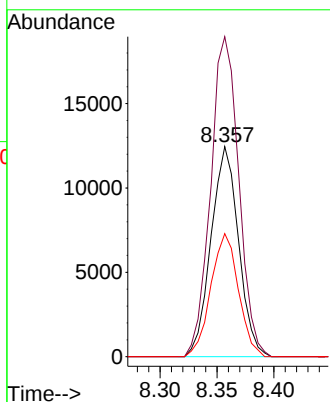
Tgt Ion:152 Resp: 20980
Ion Ratio Lower Upper
152 100
150 152.4 126.2 189.4
115 58.6 45.0 67.4

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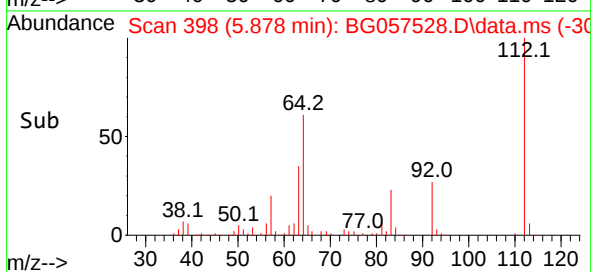
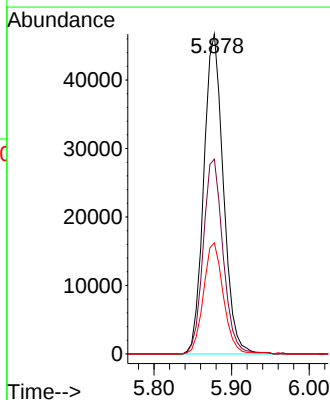
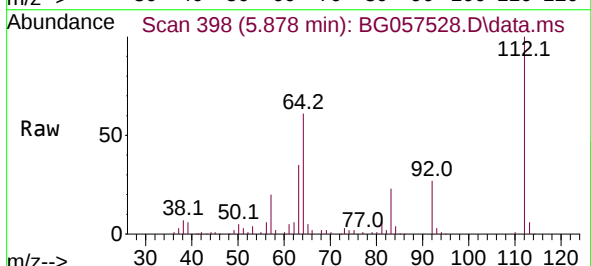
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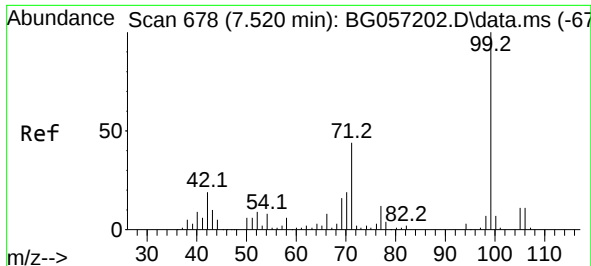
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#5
2-Fluorophenol
Concen: 66.932 ng
RT: 5.878 min Scan# 398
Delta R.T. 0.007 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

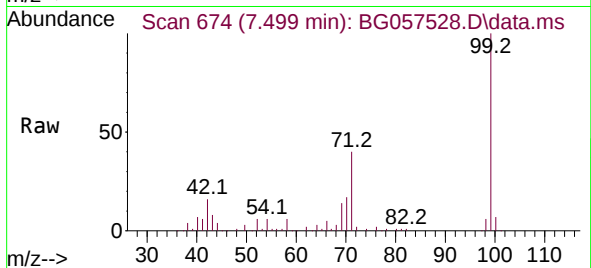
Tgt Ion:112 Resp: 82090
Ion Ratio Lower Upper
112 100
64 60.9 49.4 74.2
63 34.7 31.6 47.4





#7
Phenol-d6
Concen: 63.597 ng
RT: 7.499 min Scan# 61
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



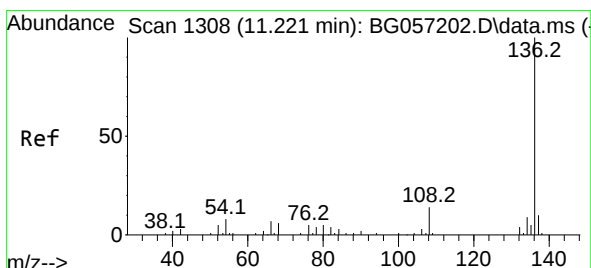
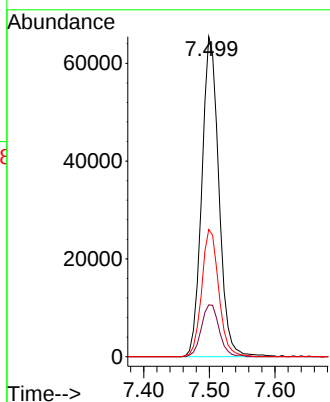
Tgt Ion: 99 Resp: 11844
Ion Ratio Lower Upper
99 100
42 16.2 15.1 22.7
71 39.8 35.2 52.8

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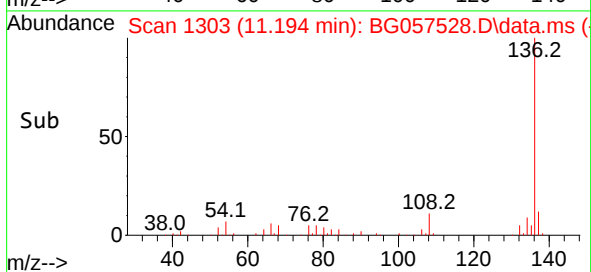
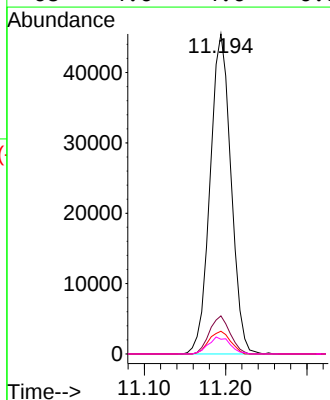
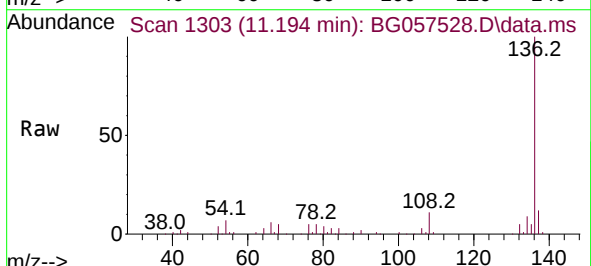
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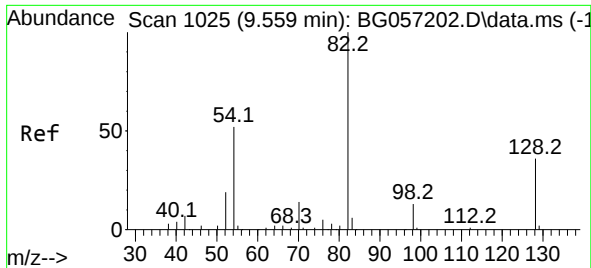
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.194 min Scan# 1303
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:136 Resp: 81260
Ion Ratio Lower Upper
136 100
137 11.9 8.3 12.5
54 7.1 6.7 10.1
68 4.6 4.6 6.8





#23
Nitrobenzene-d5
Concen: 39.591 ng
RT: 9.537 min Scan# 1025
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29

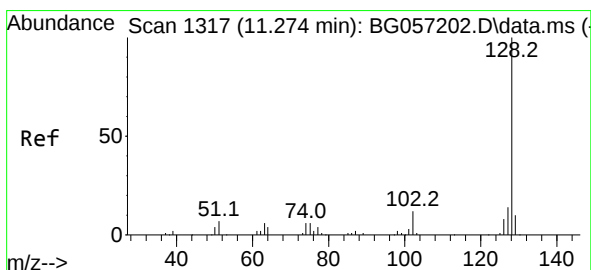
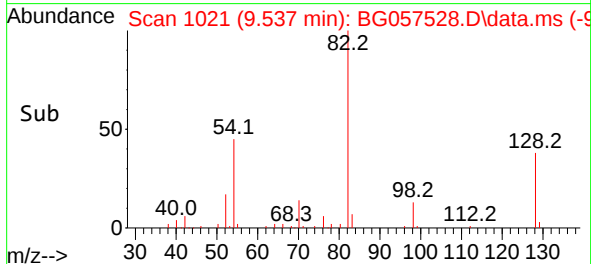
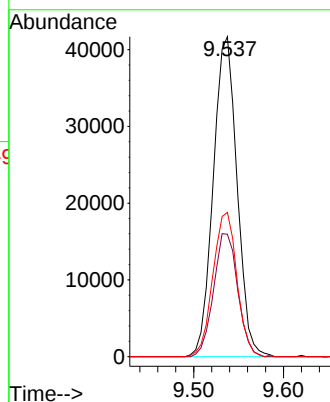
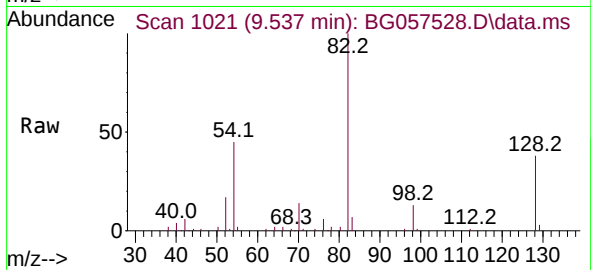
Tgt Ion: 82 Resp: 76652
Ion Ratio Lower Upper
82 100
128 38.2 29.0 43.4
54 45.1 41.4 62.0

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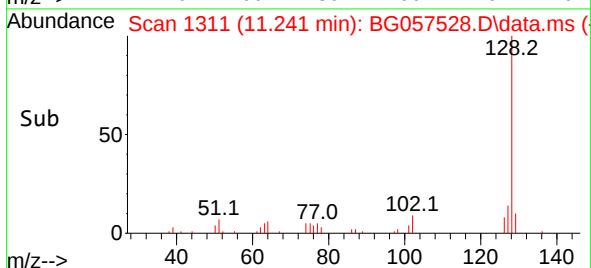
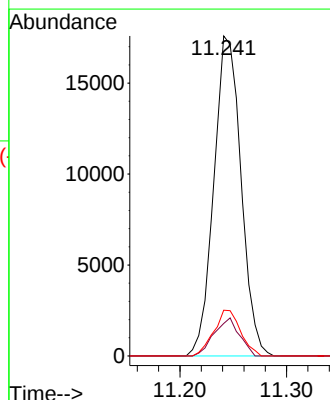
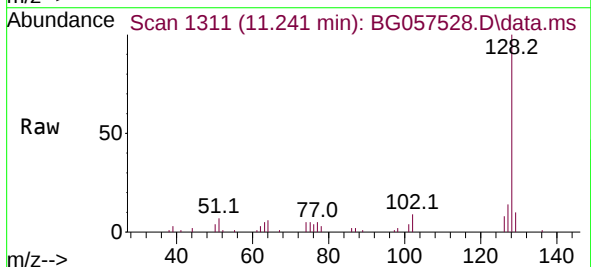
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Supervised By :mohammad
ahmed

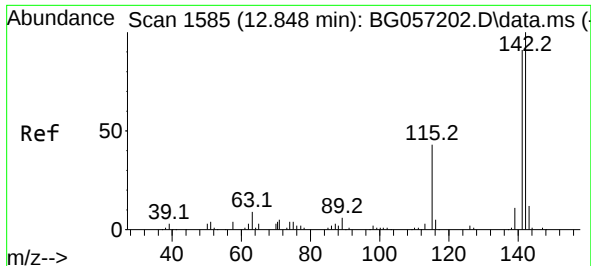
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#31
Naphthalene
Concen: 7.163 ng
RT: 11.241 min Scan# 1311
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

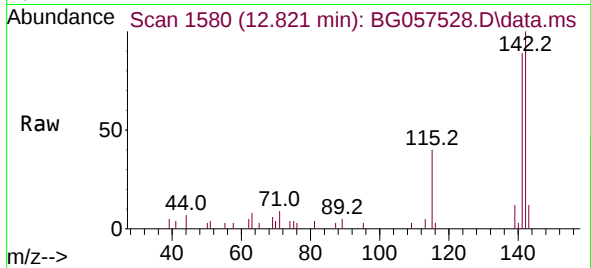
Tgt Ion:128 Resp: 31116
Ion Ratio Lower Upper
128 100
129 10.2 8.3 12.5
127 14.3 11.1 16.7





#37
2-Methylnaphthalene
Concen: 2.816 ng
RT: 12.821 min Scan# 1158
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



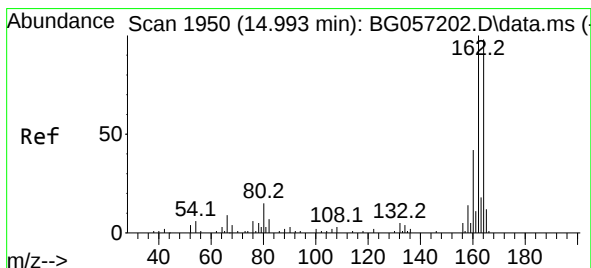
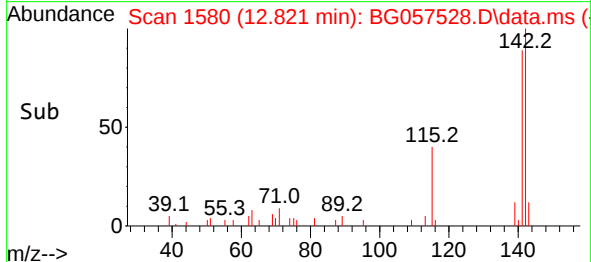
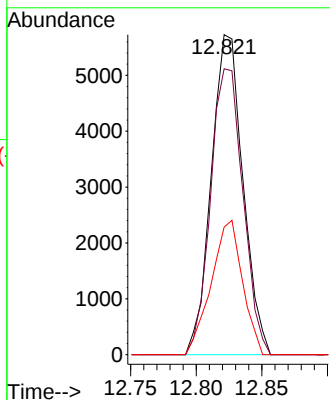
Tgt Ion:142 Resp: 9618
Ion Ratio Lower Upper
142 100
141 89.3 73.1 109.7
115 39.9 34.6 52.0

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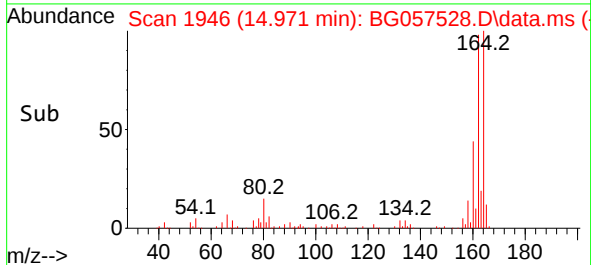
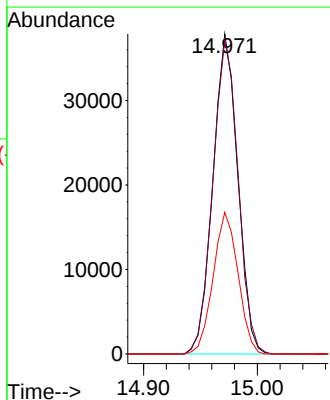
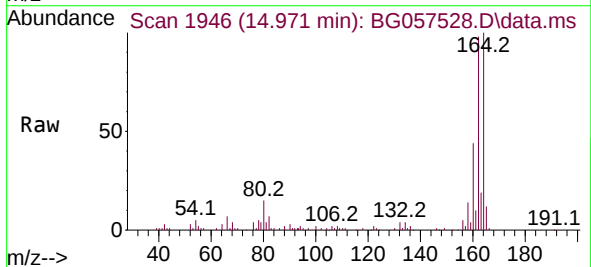
05/24/2023
Supervised By :mohammad
ahmed

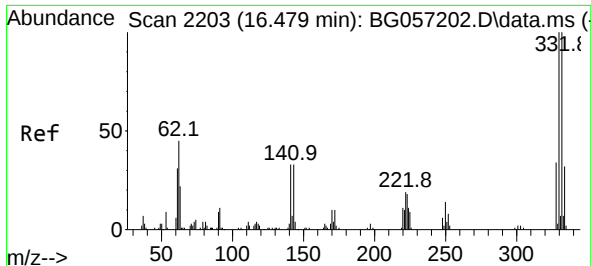
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.971 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

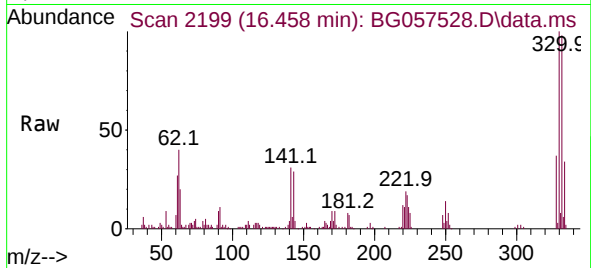
Tgt Ion:164 Resp: 57529
Ion Ratio Lower Upper
164 100
162 98.1 81.8 122.6
160 44.3 34.6 52.0





#42
2,4,6-Tribromophenol
Concen: 66.655 ng
RT: 16.458 min Scan# 2199
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



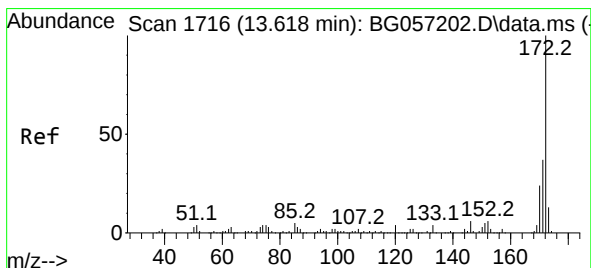
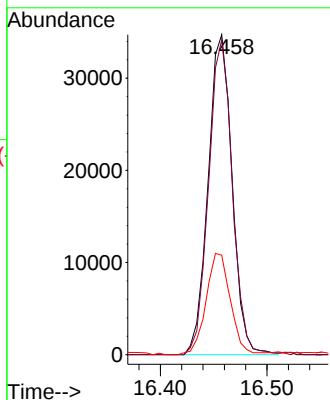
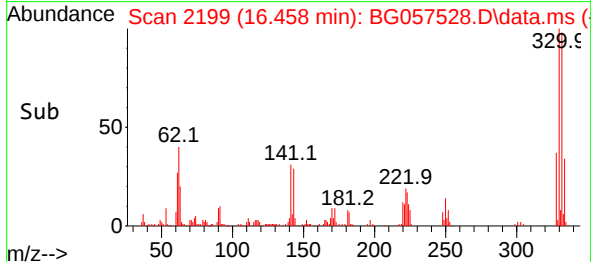
Tgt Ion:330 Resp: 54409
Ion Ratio Lower Upper
330 100
332 96.9 78.2 117.2
141 32.1 27.8 41.8

Manual Integrations
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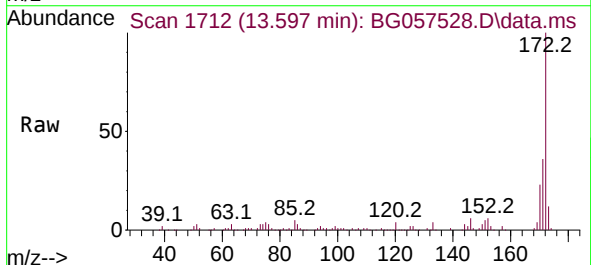
Reviewed By :Christian
Giraldo

05/24/2023
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ahmed

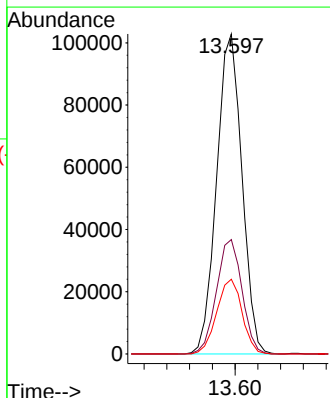
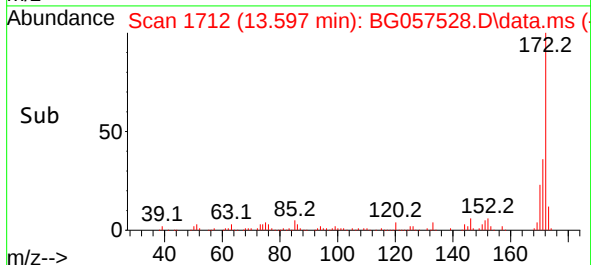
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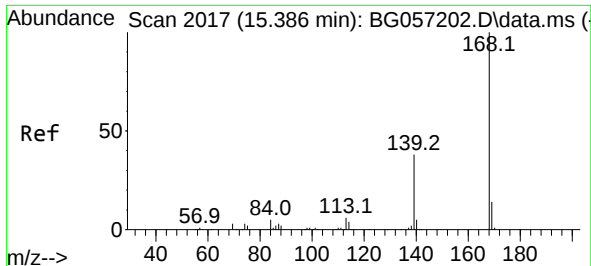


#45
2-Fluorobiphenyl
Concen: 37.194 ng
RT: 13.597 min Scan# 1712
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44



Tgt Ion:172 Resp: 158876
Ion Ratio Lower Upper
172 100
171 35.8 29.4 44.0
170 23.3 19.0 28.6





#55
Dibenzofuran
Concen: 2.827 ng
RT: 15.365 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29

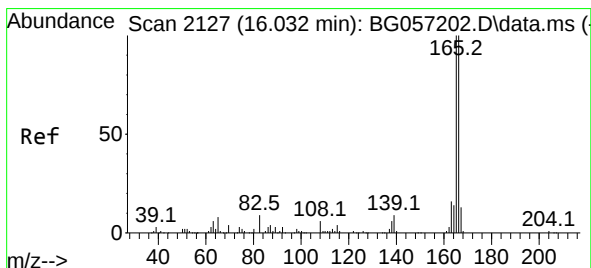
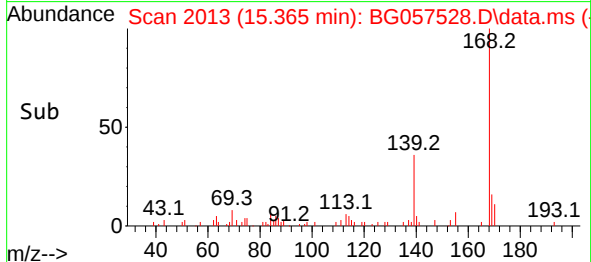
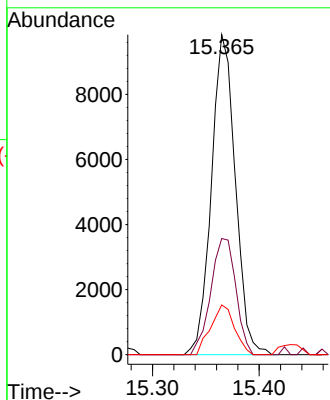
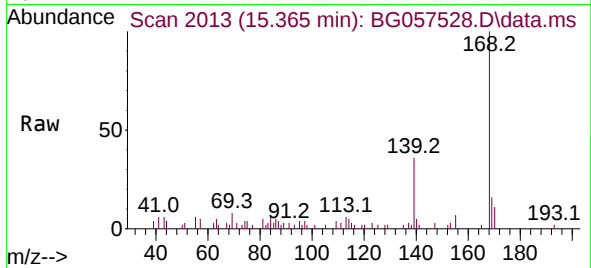
Tgt Ion:168 Resp: 1530
Ion Ratio Lower Upper
168 100
139 36.3 30.7 46.1
169 15.6 10.9 16.3

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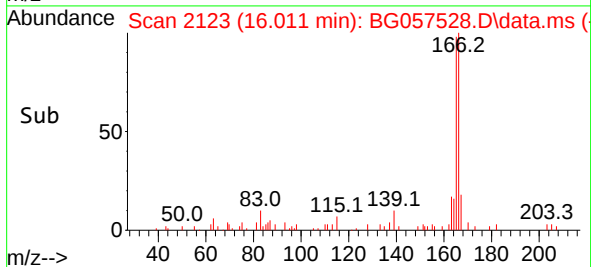
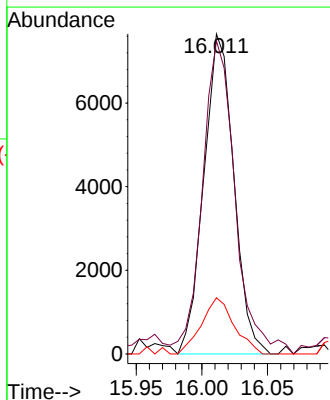
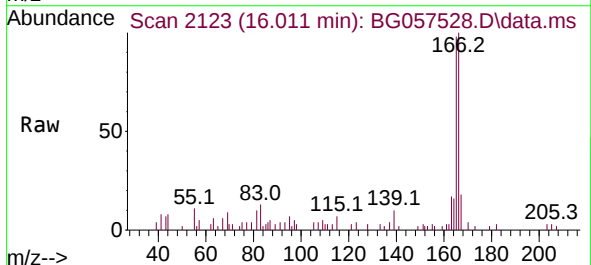
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ahmed

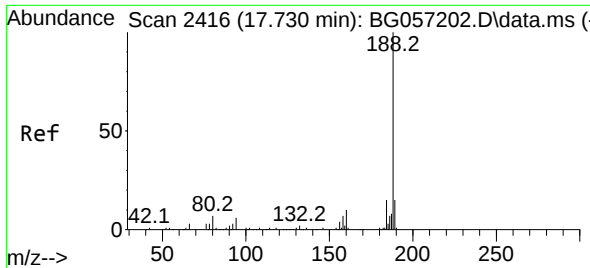
05/24/2023



#58
Fluorene
Concen: 2.730 ng
RT: 16.011 min Scan# 2123
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

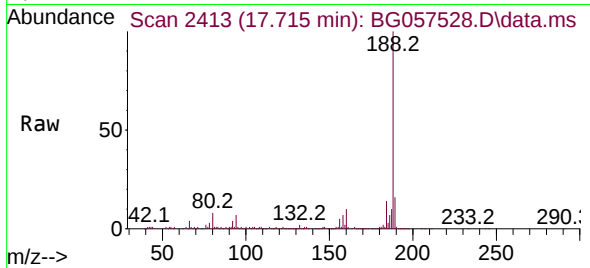
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Ion Ratio Lower Upper
166 100
165 97.8 80.1 120.1
167 17.5 10.2 15.2#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.715 min Scan# 2416
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



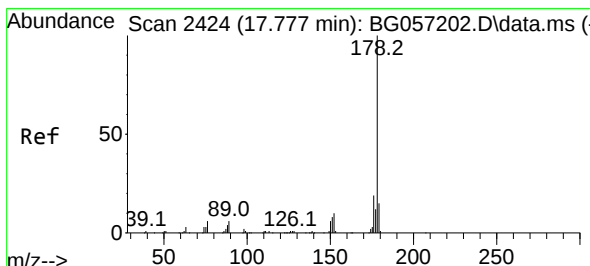
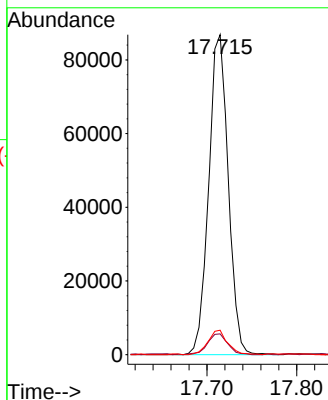
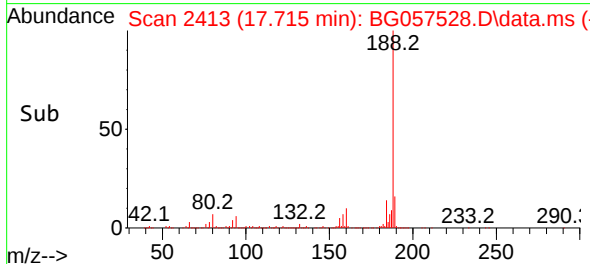
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Ion Ratio Lower Upper
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94 6.5 5.1 7.7
80 7.6 5.7 8.5

Manual Integrations
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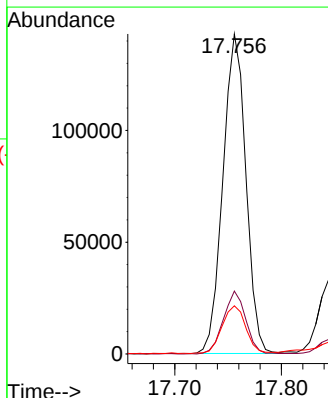
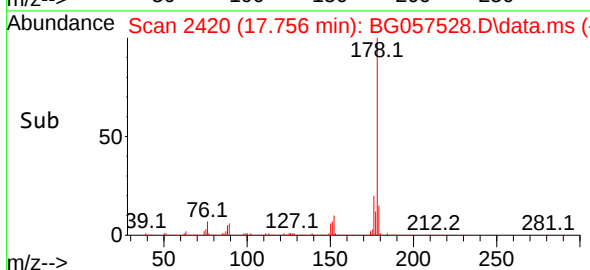
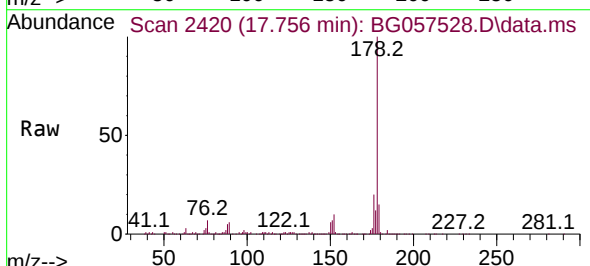
05/24/2023
Supervised By :mohammad
ahmed

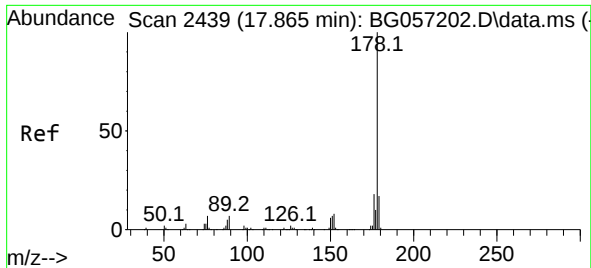
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#71
Phenanthrene
Concen: 31.899 ng
RT: 17.756 min Scan# 2420
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

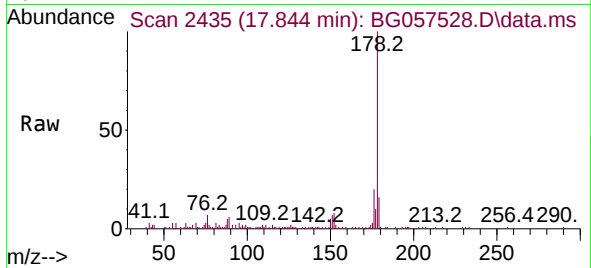
Tgt Ion:178 Resp: 214089
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 15.0 12.3 18.5





#72
 Anthracene
 Concen: 7.093 ng
 RT: 17.844 min Scan# 2435
 Delta R.T. -0.005 min
 Lab File: BG057528.D
 Acq: 23 May 2023 20:44

Instrument :
 BNA_G
 ClientSampleId :
 TP-29



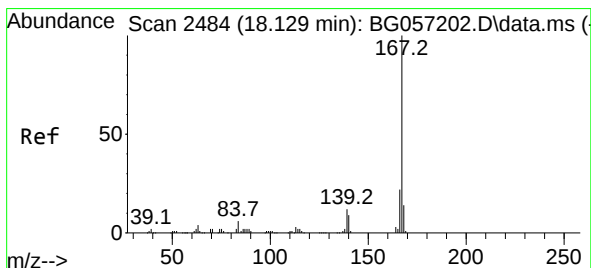
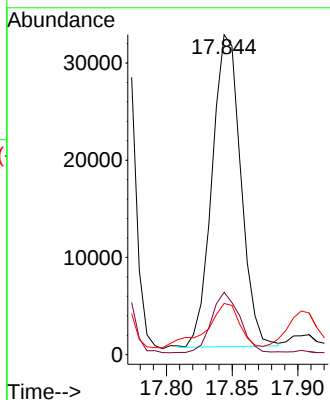
Tgt Ion:178 Resp: 4884
 Ion Ratio Lower Upper
 178 100
 176 19.5 14.7 22.1
 179 16.0 13.2 19.8

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Reviewed By :Christian
 Giraldo

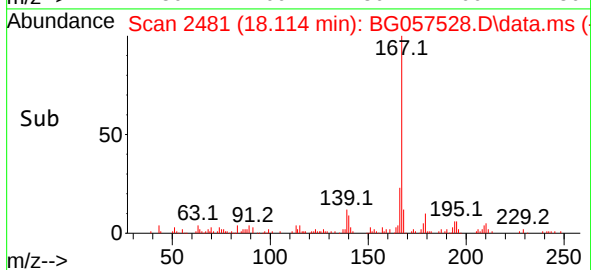
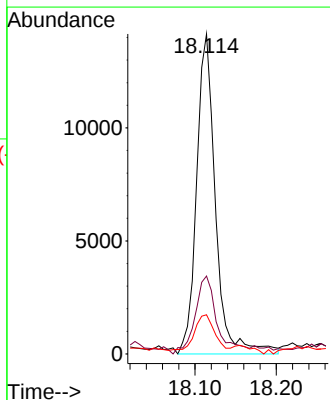
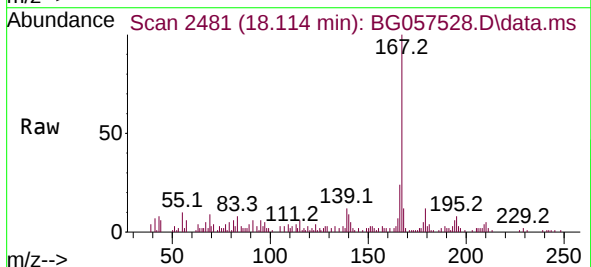
05/24/2023
 Supervised By :mohammad
 ahmed

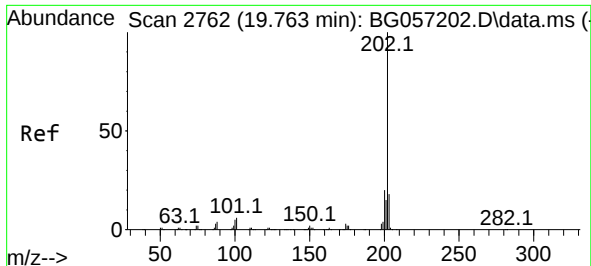
05/24/2023



#73
 Carbazole
 Concen: 3.947 ng
 RT: 18.114 min Scan# 2481
 Delta R.T. 0.001 min
 Lab File: BG057528.D
 Acq: 23 May 2023 20:44

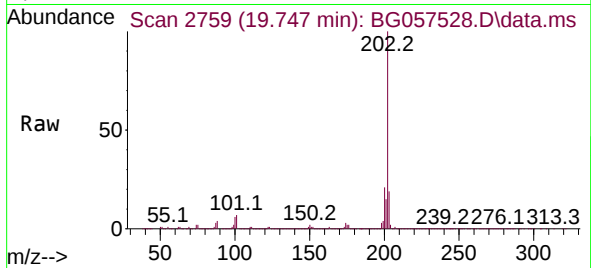
Tgt Ion:167 Resp: 22881
 Ion Ratio Lower Upper
 167 100
 166 24.4 17.4 26.0
 139 12.3 9.6 14.4





#75
Fluoranthene
Concen: 75.373 ng
RT: 19.747 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



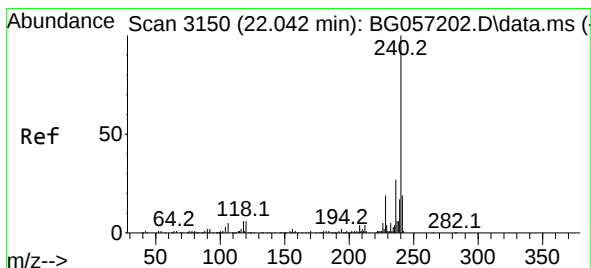
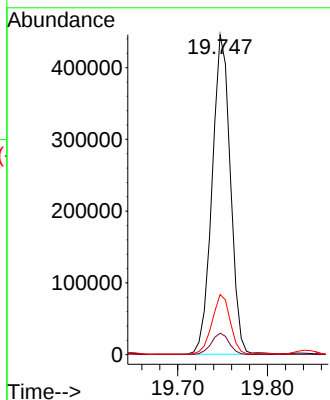
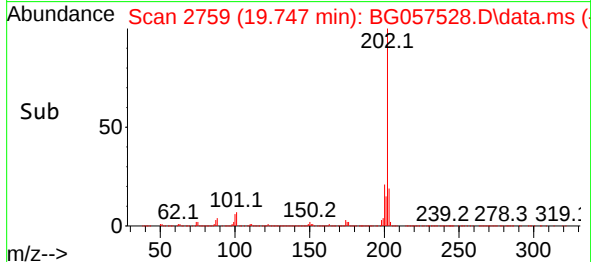
Tgt Ion:202 Resp: 62915
Ion Ratio Lower Upper
202 100
101 6.7 0.0 26.2
203 18.8 0.0 37.9

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Reviewed By :Christian
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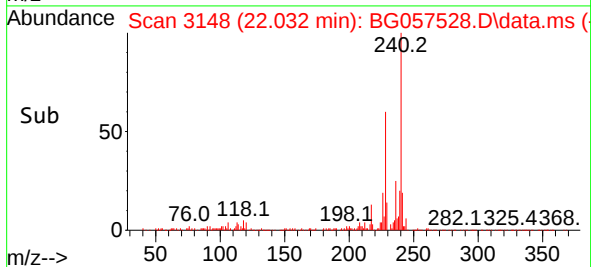
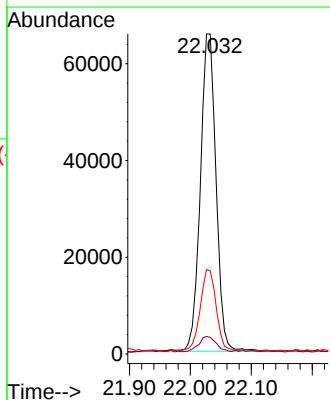
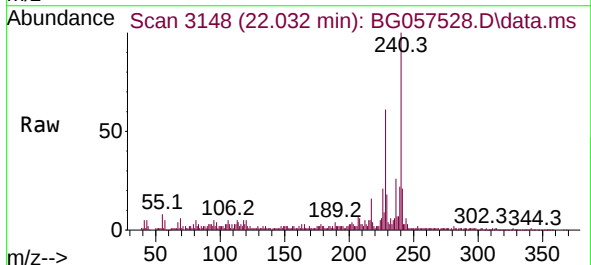
05/24/2023
Supervised By :mohammad
ahmed

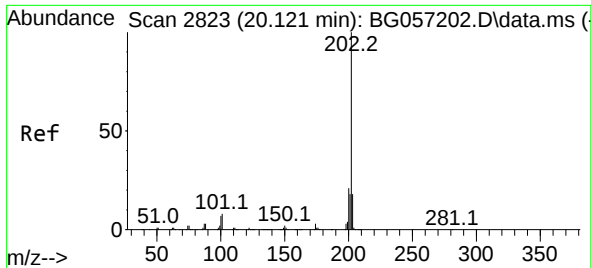
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.032 min Scan# 3148
Delta R.T. 0.013 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

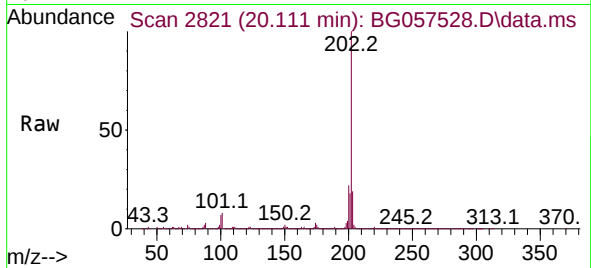
Tgt Ion:240 Resp: 117474
Ion Ratio Lower Upper
240 100
120 5.2 4.9 7.3
236 26.0 21.4 32.2





#78
Pyrene
Concen: 75.323 ng
RT: 20.111 min Scan# 2821
Delta R.T. 0.007 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



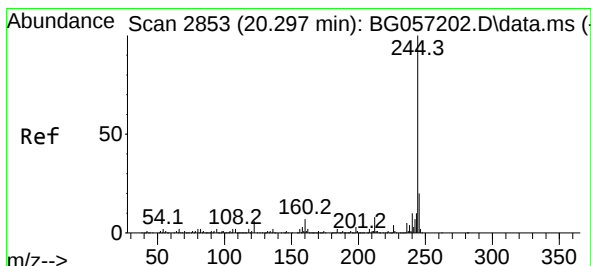
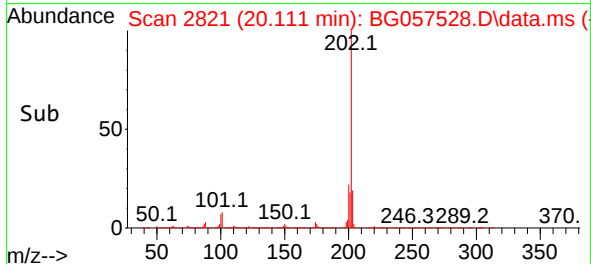
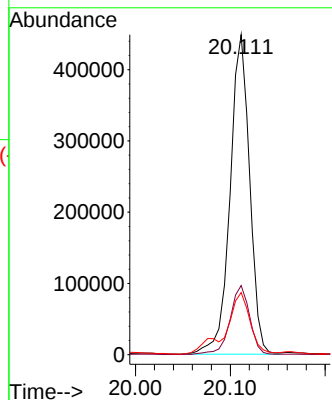
Tgt Ion:202 Resp: 64298
Ion Ratio Lower Upper
202 100
200 21.6 17.0 25.4
203 19.4 14.2 21.4

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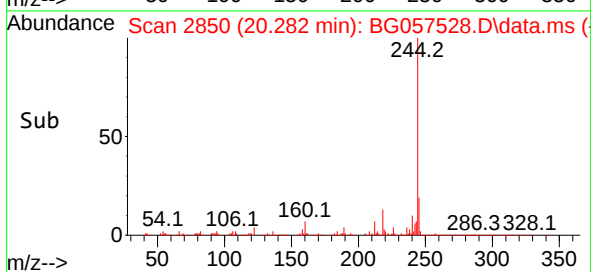
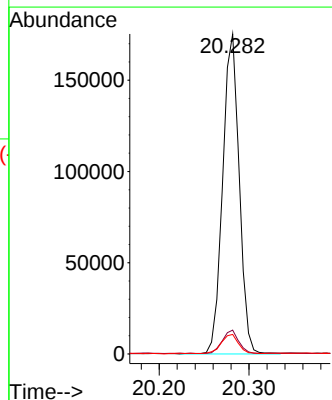
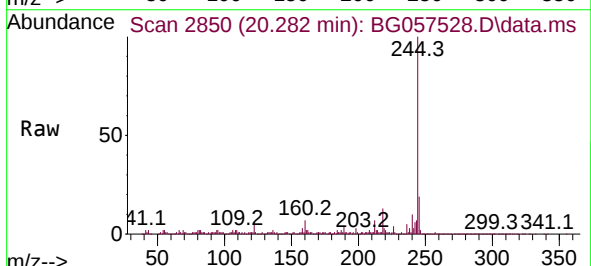
05/24/2023
Supervised By :mohammad
ahmed

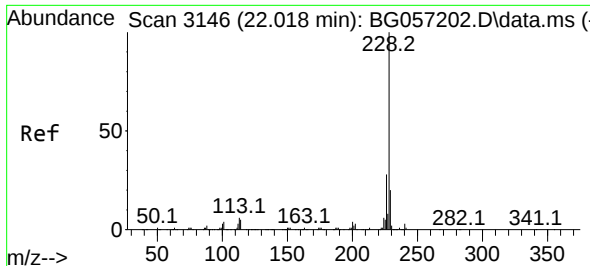
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#79
Terphenyl-d14
Concen: 31.157 ng
RT: 20.282 min Scan# 2850
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

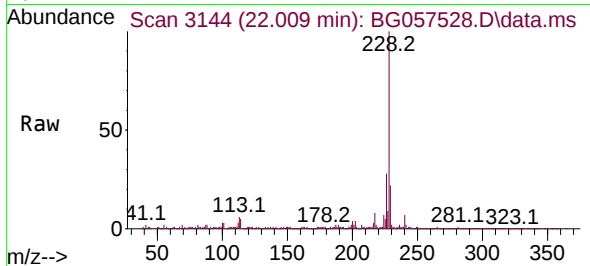
Tgt Ion:244 Resp: 224286
Ion Ratio Lower Upper
244 100
212 7.4 6.1 9.1
122 6.1 5.1 7.7





#81
Benzo(a)anthracene
Concen: 48.401 ng
RT: 22.009 min Scan# 3146
Delta R.T. 0.013 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



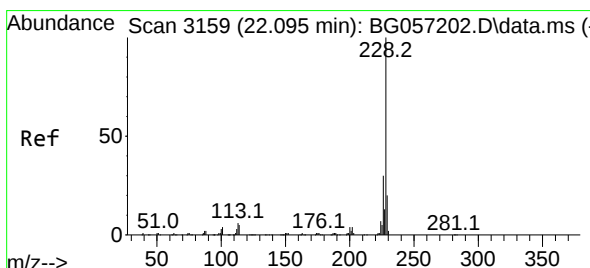
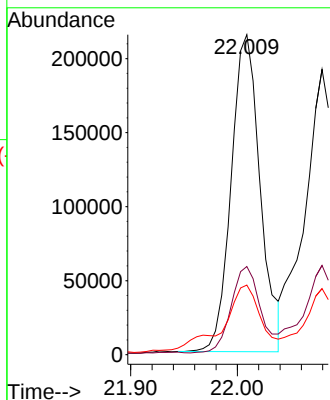
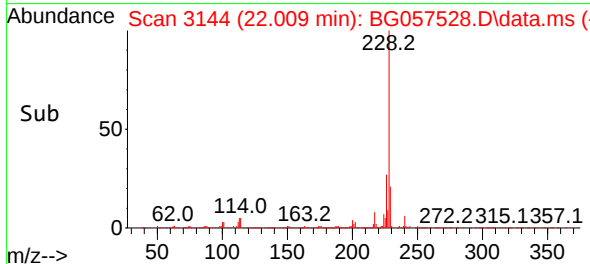
Tgt Ion:228 Resp: 405098
Ion Ratio Lower Upper
228 100
226 27.5 22.0 33.0
229 21.8 15.8 23.8

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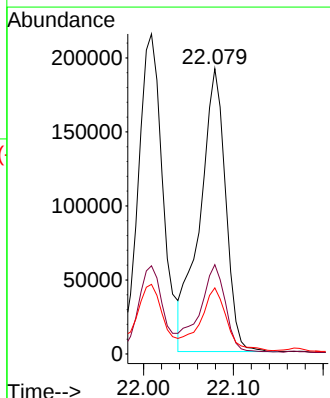
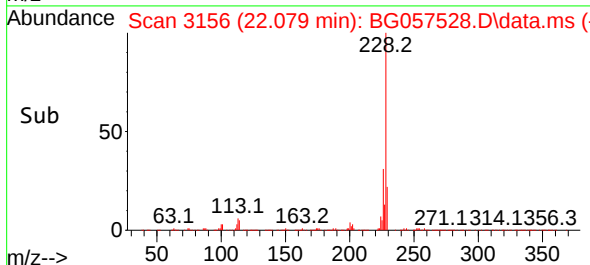
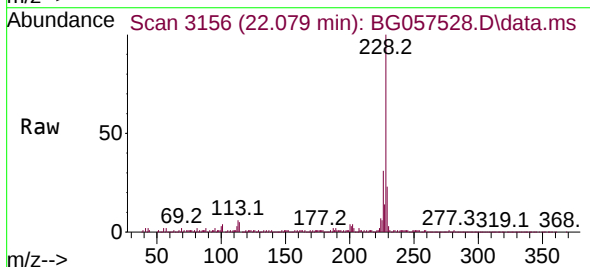
05/24/2023
Supervised By :mohammad
ahmed

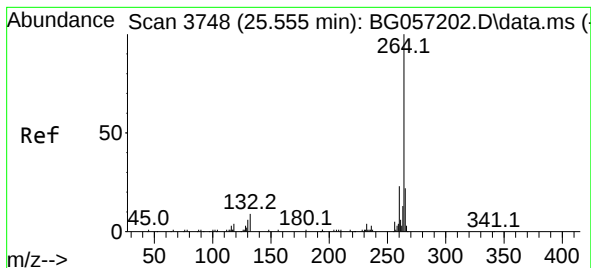
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#83
Chrysene
Concen: 48.357 ng
RT: 22.079 min Scan# 3156
Delta R.T. 0.007 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

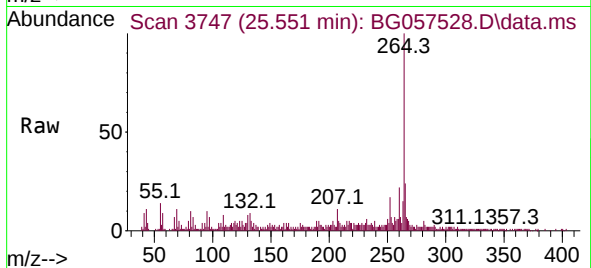
Tgt Ion:228 Resp: 380807
Ion Ratio Lower Upper
228 100
226 31.3 24.3 36.5
229 23.2 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.551 min Scan# 31
Delta R.T. 0.036 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



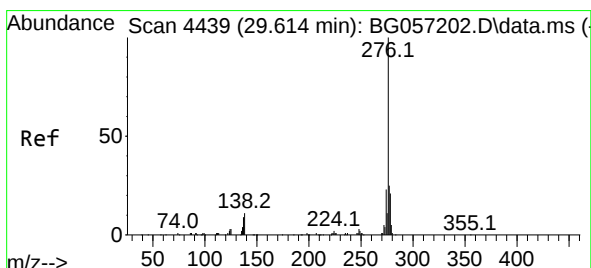
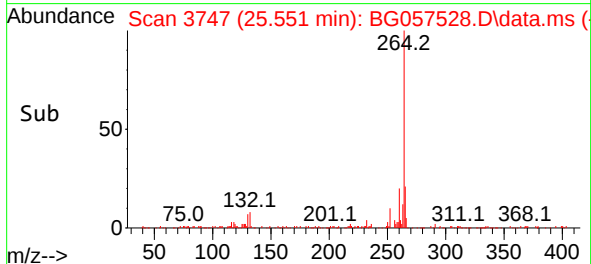
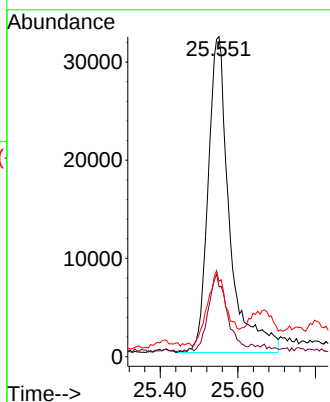
Tgt Ion:264 Resp: 12364
Ion Ratio Lower Upper
264 100
260 21.8 18.8 28.2
265 23.6 17.9 26.9

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Reviewed By :Christian
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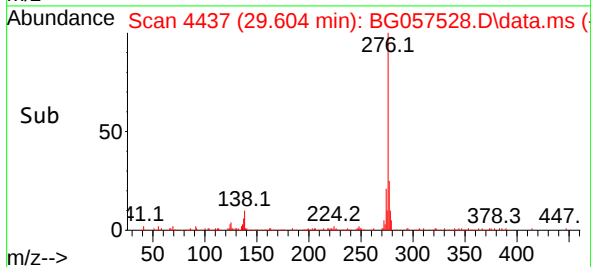
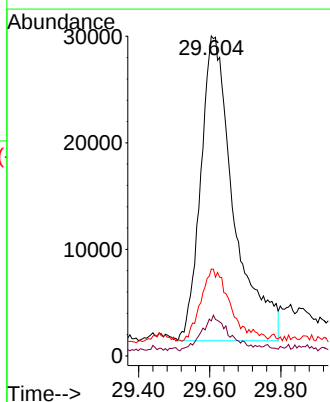
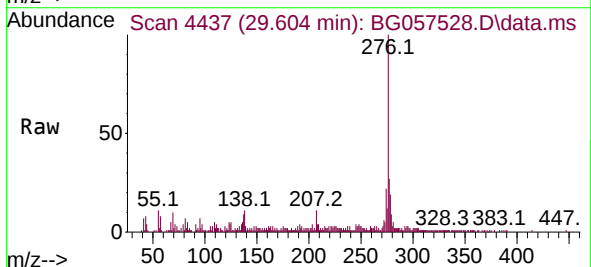
05/24/2023
Supervised By :mohammad
ahmed

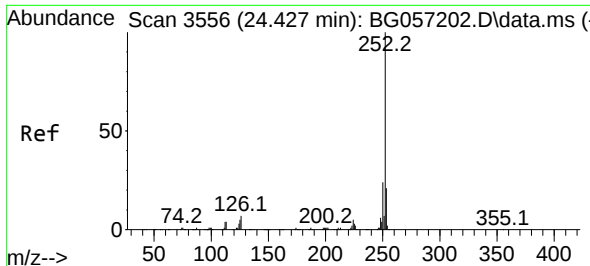
05/24/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 20.517 ng
RT: 29.604 min Scan# 4437
Delta R.T. 0.042 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

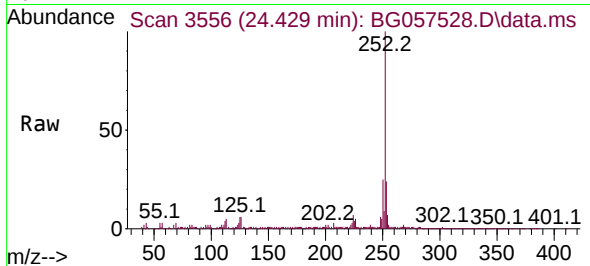
Tgt Ion:276 Resp: 184890
Ion Ratio Lower Upper
276 100
138 9.7 5.4 8.0#
277 21.7 20.6 30.8





#88
Benzo(b)fluoranthene
Concen: 65.801 ng
RT: 24.429 min Scan# 3556
Delta R.T. 0.036 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



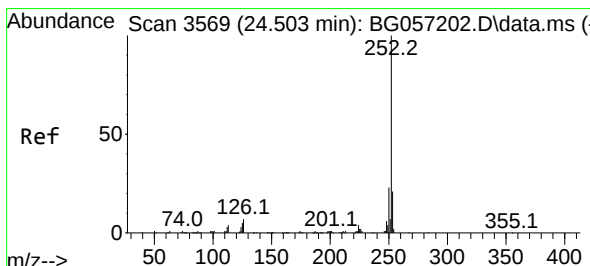
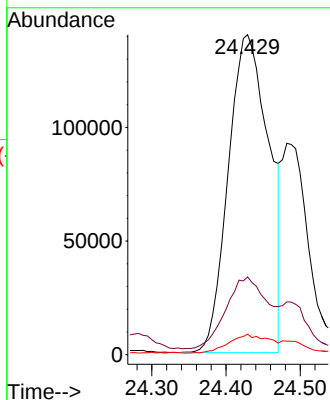
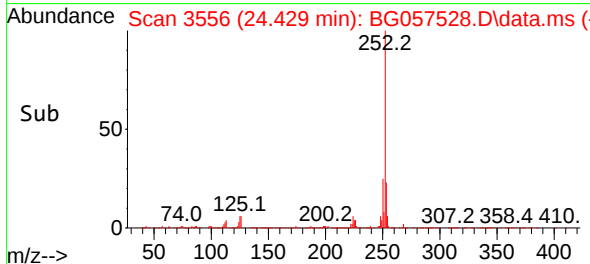
Tgt Ion:252 Resp: 53185
Ion Ratio Lower Upper
252 100
253 24.3 17.0 25.6
125 6.4 4.2 6.2

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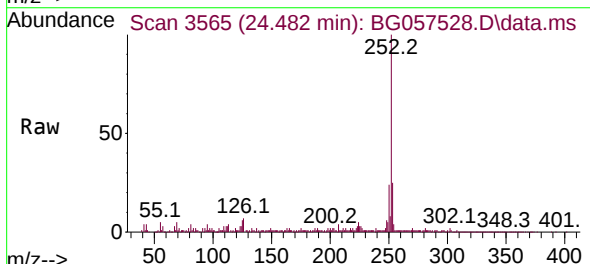
Reviewed By :Christian
Giraldo

05/24/2023
Supervised By :mohammad
ahmed

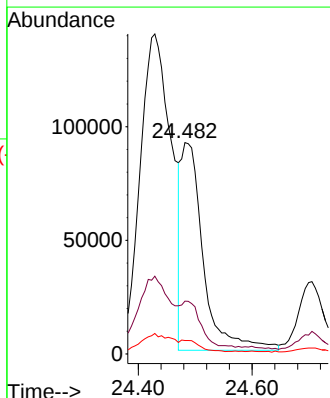
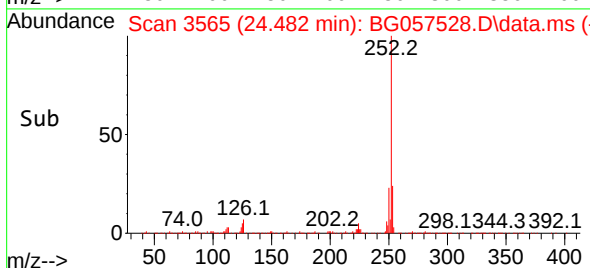
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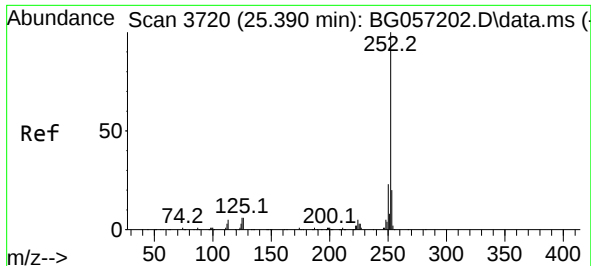


#89
Benzo(k)fluoranthene
Concen: 30.344 ng m
RT: 24.482 min Scan# 3565
Delta R.T. 0.013 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44



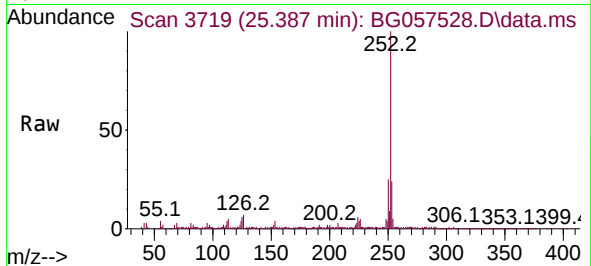
Tgt Ion:252 Resp: 249230
Ion Ratio Lower Upper
252 100
253 25.0 17.4 26.0
125 6.4 4.1 6.1





#90
Benzo(a)pyrene
Concen: 56.550 ng
RT: 25.387 min Scan# 3719
Delta R.T. 0.030 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



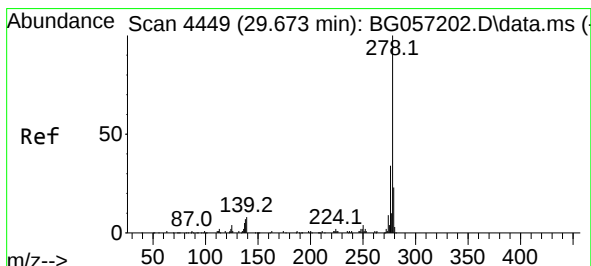
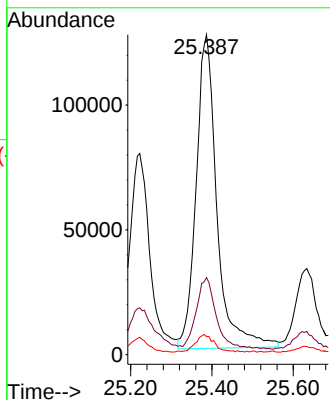
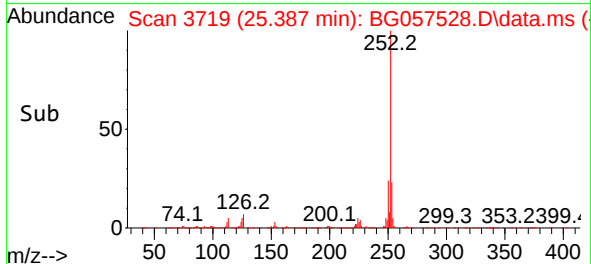
Tgt Ion:252 Resp: 446548
Ion Ratio Lower Upper
252 100
253 24.1 16.3 24.5
125 5.7 5.0 7.4

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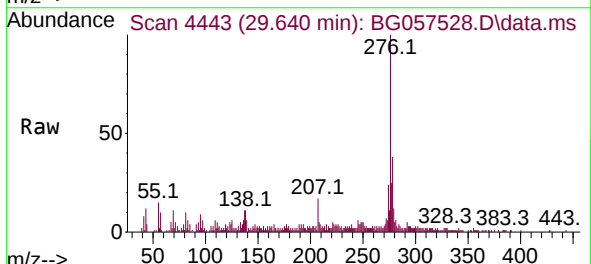
Reviewed By :Christian
Giraldo

05/24/2023
Supervised By :mohammad
ahmed

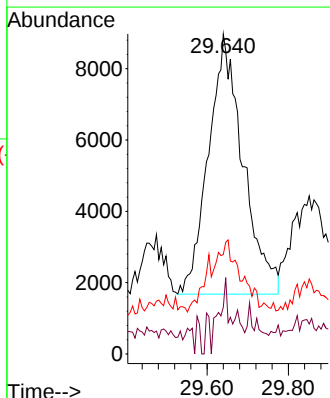
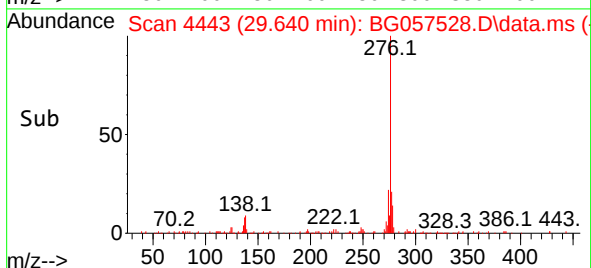
05/24/2023

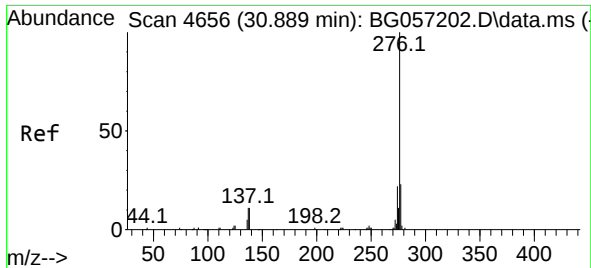


#91
Dibenzo(a,h)anthracene
Concen: 5.724 ng
RT: 29.640 min Scan# 4443
Delta R.T. 0.030 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44



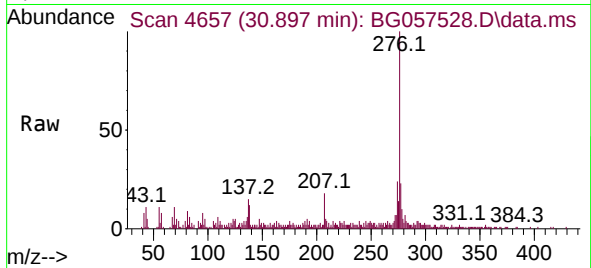
Tgt Ion:278 Resp: 42959
Ion Ratio Lower Upper
278 100
139 14.6 6.2 9.2#
279 31.1 18.6 27.8#





#92
 Benzo(g,h,i)perylene
 Concen: 22.827 ng m
 RT: 30.897 min Scan# 4
 Delta R.T. 0.060 min
 Lab File: BG057528.D
 Acq: 23 May 2023 20:44

Instrument :
 BNA_G
 ClientSampleId :
 TP-29



Tgt Ion:276 Resp: 167274
 Ion Ratio Lower Upper
 276 100
 277 23.0 18.4 27.6
 138 11.8 9.0 13.4

Manual Integrations
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Reviewed By :Christian
 Giraldo

05/24/2023
 Supervised By :mohammad
 ahmed

