

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112023\
 Data File : BG059777.D
 Acq On : 20 Nov 2023 20:29
 Operator : MA/JU
 Sample : 05351-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-241

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/21/2023
 Supervised By :mohammad ahmed 11/21/2023

Quant Time: Nov 21 00:20:47 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 17 01:51:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.329	152	30416	20.000	ng	#-0.01
21) Naphthalene-d8	11.179	136	148904	20.000	ng	#-0.01
39) Acenaphthene-d10	14.963	164	96646	20.000	ng	# 0.00
64) Phenanthrene-d10	17.713	188	198295	20.000	ng	0.00
76) Chrysene-d12	22.043	240	178680	20.000	ng	# 0.00
86) Perylene-d12	25.627	264	200458	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.827	112	204319	113.065	ng	0.00
7) Phenol-d6	7.454	99	305201	113.968	ng	0.00
23) Nitrobenzene-d5	9.534	82	288334	73.954	ng	0.00
42) 2,4,6-Tribromophenol	16.449	330	137290	125.200	ng	0.00
45) 2-Fluorobiphenyl	13.582	172	563110	78.428	ng	-0.01
79) Terphenyl-d14	20.292	244	901531	74.484	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	15.022	154	30302	5.669	ng	94
55) Dibenzofuran	15.357	168	68328	7.753	ng	95
58) Fluorene	16.003	166	182802	24.967	ng	# 92
70) Pentachlorophenol	17.342	266	11805	7.782	ng	93
71) Phenanthrene	17.765	178	3095579m	307.047	ng	
72) Anthracene	17.848	178	429513	41.003	ng	96
73) Carbazole	18.124	167	26683	2.916	ng	97
75) Fluoranthene	19.763	202	4296634	355.375	ng	94
78) Pyrene	20.122	202	2615440	215.134	ng	96
81) Benzo(a)anthracene	22.025	228	825318	67.507	ng	98
83) Chrysene	22.102	228	1098042	97.976	ng	94
87) Indeno(1,2,3-cd)pyrene	29.781	276	146093m	9.632	ng	
88) Benzo(b)fluoranthene	24.469	252	538496	49.012	ng	# 94
89) Benzo(k)fluoranthene	24.540	252	178284m	16.414	ng	
90) Benzo(a)pyrene	25.445	252	267477	22.811	ng	95
92) Benzo(g,h,i)perylene	31.091	276	119835m	9.842	ng	

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

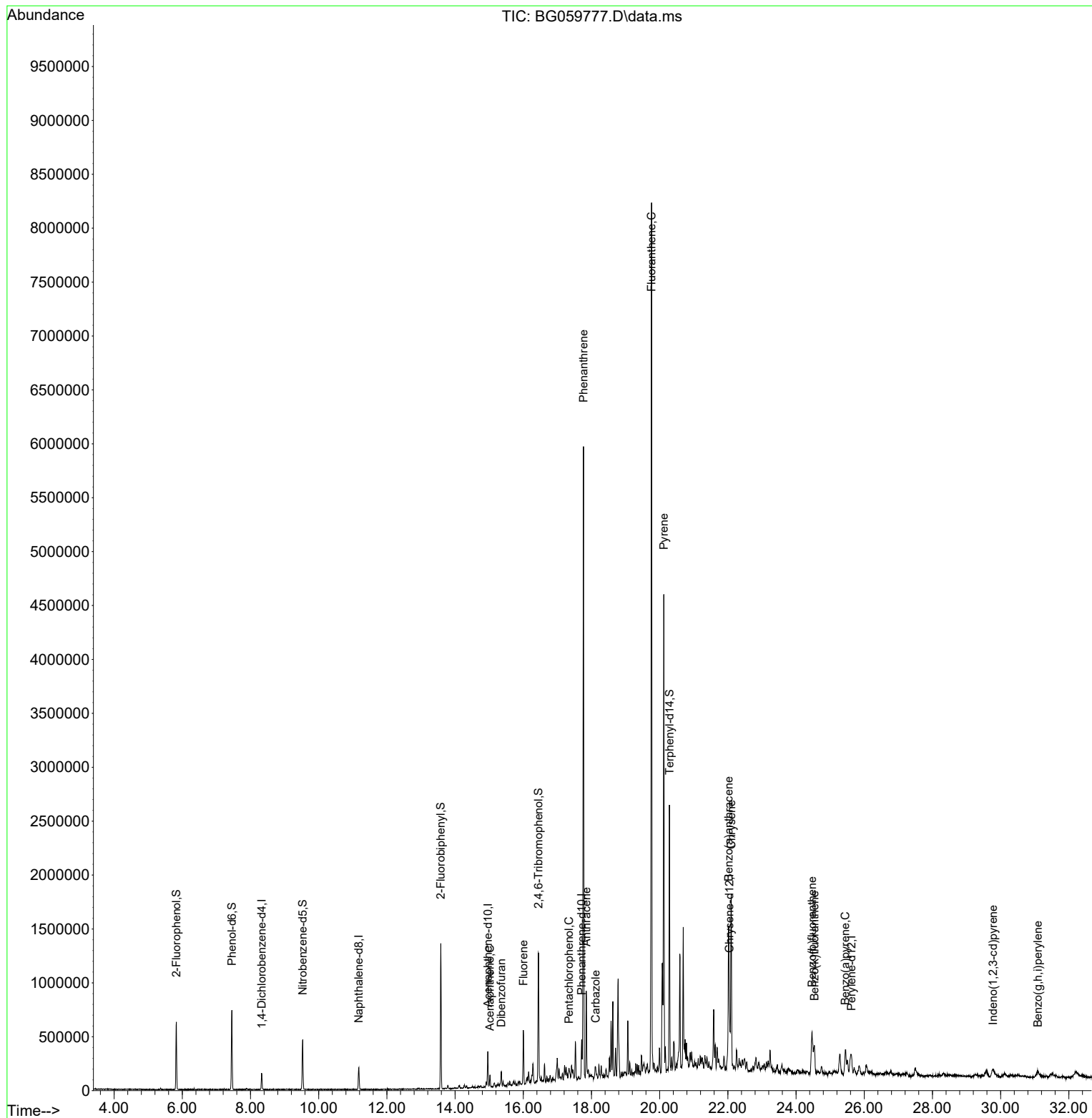
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112023\
Data File : BG059777.D
Acq On : 20 Nov 2023 20:29
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ALS Vial : 11 Sample Multiplier: 1

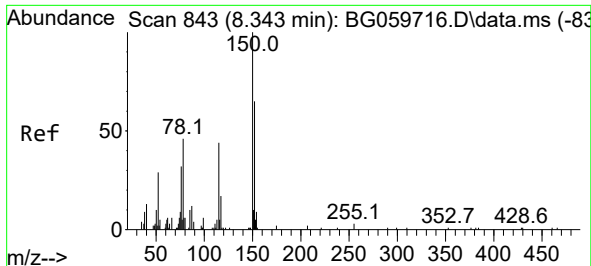
Instrument :
BNA_G
ClientSampleId :
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Quant Time: Nov 21 00:20:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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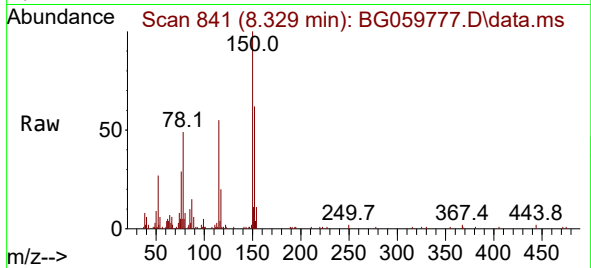
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.329 min Scan# 843
Delta R.T. -0.014 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

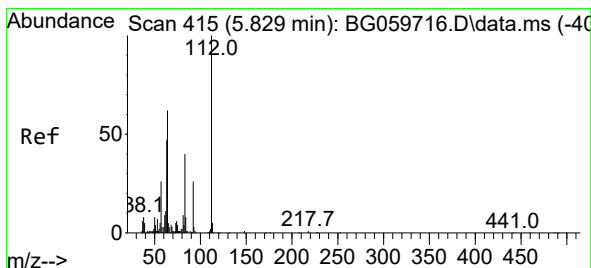
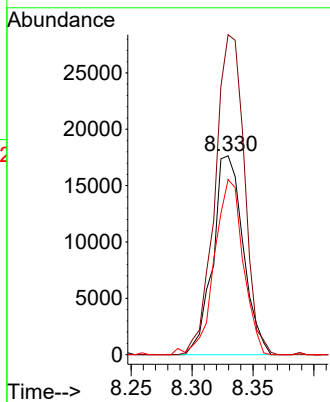
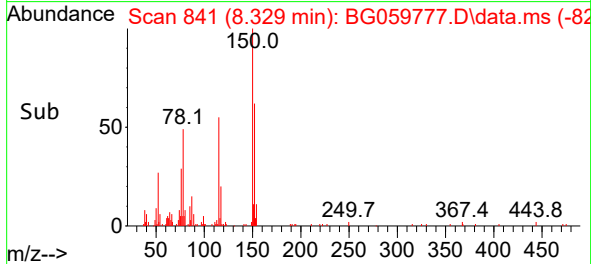
Instrument :
BNA_G
ClientSampleId :
VNJ-241



Tgt Ion:152 Resp: 30410
Ion Ratio Lower Upper
152 100
150 161.0 122.2 183.4
115 88.2 54.2 81.4

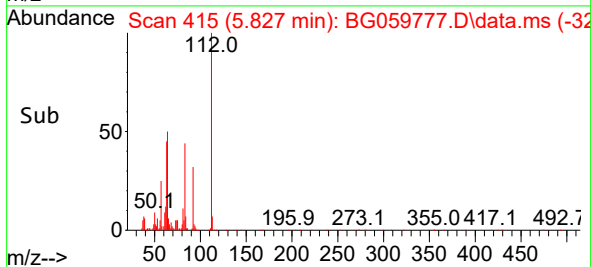
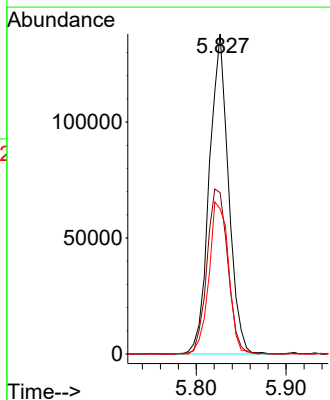
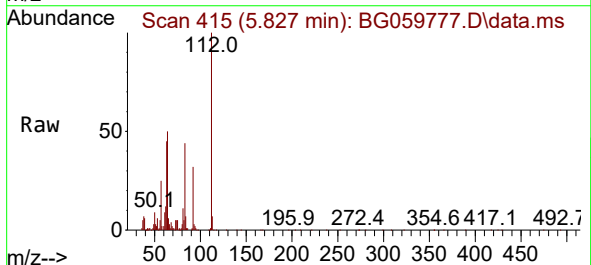
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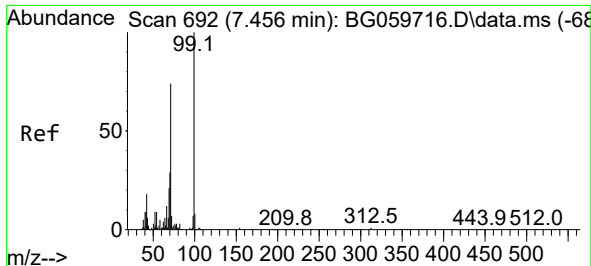
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023



#5
2-Fluorophenol
Concen: 113.065 ng
RT: 5.827 min Scan# 415
Delta R.T. -0.002 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

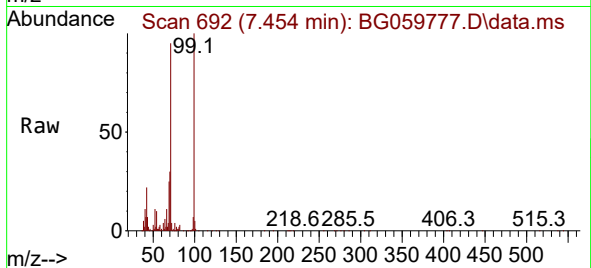
Tgt Ion:112 Resp: 204319
Ion Ratio Lower Upper
112 100
64 50.4 49.5 74.3
63 45.4 37.4 56.2





#7
Phenol-d6
Concen: 113.968 ng
RT: 7.454 min Scan# 692
Delta R.T. -0.002 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

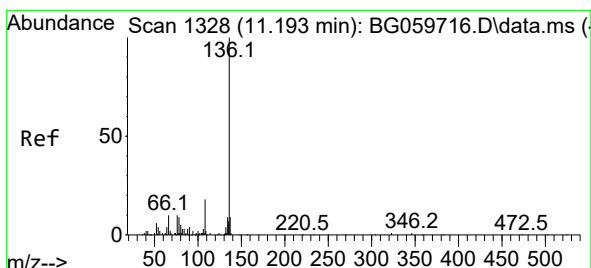
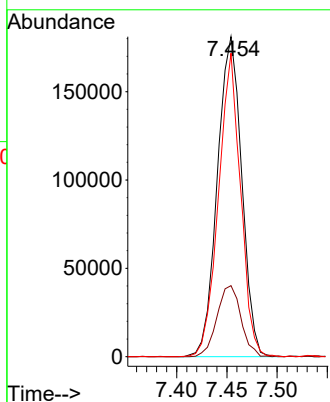
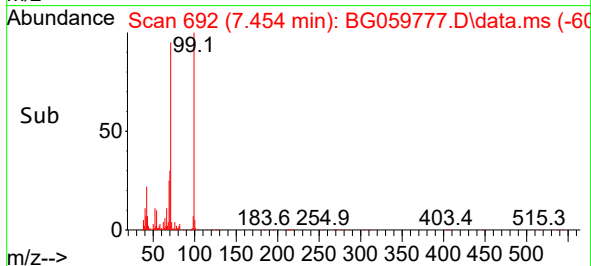
Instrument :
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ClientSampleId :
VNJ-241



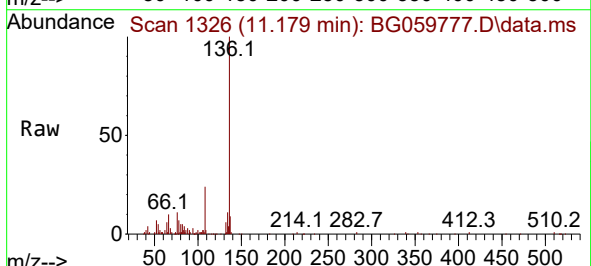
Tgt Ion: 99 Resp: 30520
Ion Ratio Lower Upper
99 100
42 22.2 14.3 21.5
71 94.8 59.3 88.9

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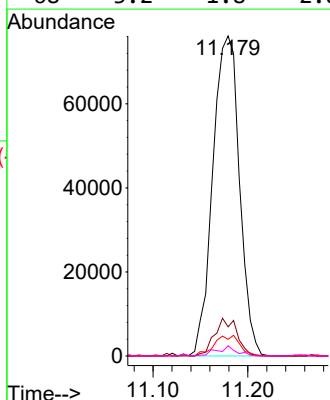
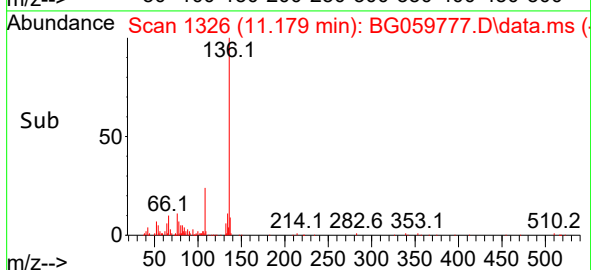
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023

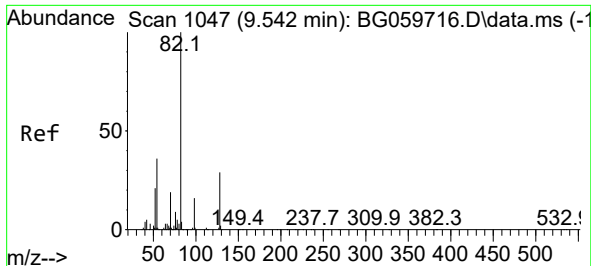


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.179 min Scan# 1326
Delta R.T. -0.014 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29



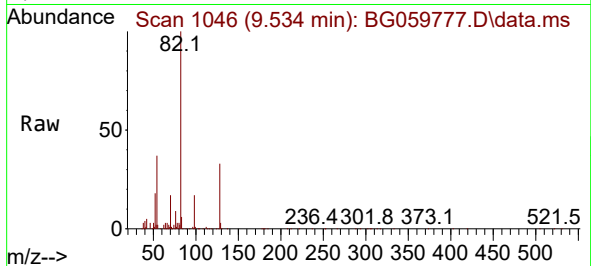
Tgt Ion:136 Resp: 148904
Ion Ratio Lower Upper
136 100
137 9.1 7.4 11.0
54 5.2 3.1 4.7#
68 3.2 1.8 2.8#





#23
Nitrobenzene-d5
Concen: 73.954 ng
RT: 9.534 min Scan# 1046
Delta R.T. -0.008 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

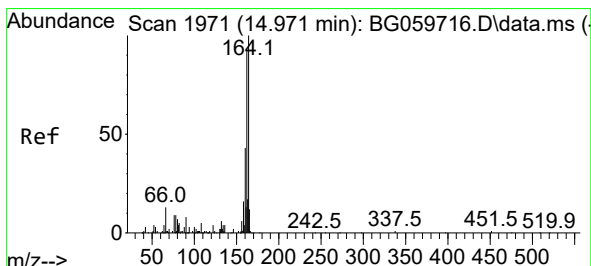
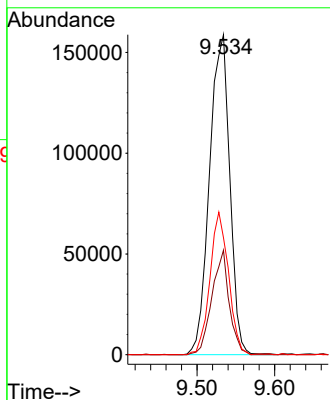
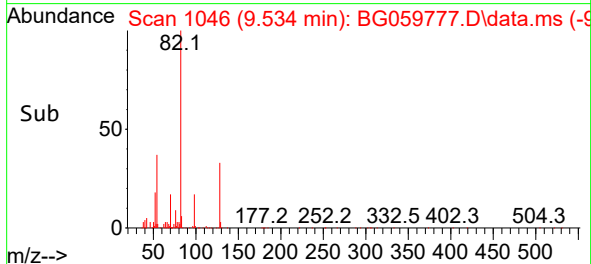
Instrument :
BNA_G
ClientSampleId :
VNJ-241



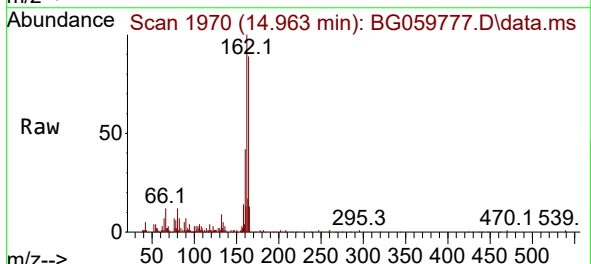
Tgt Ion: 82 Resp: 288334
Ion Ratio Lower Upper
82 100
128 32.7 23.0 34.6
54 36.6 28.7 43.1

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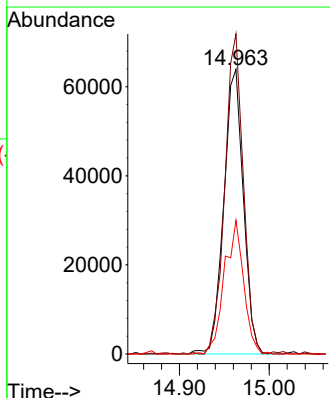
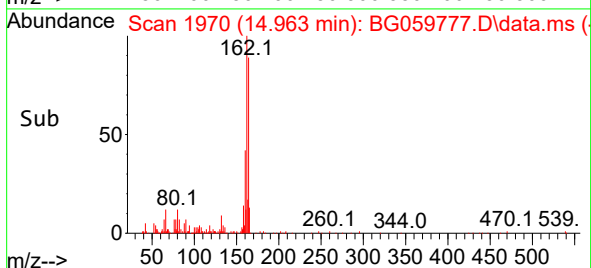
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023

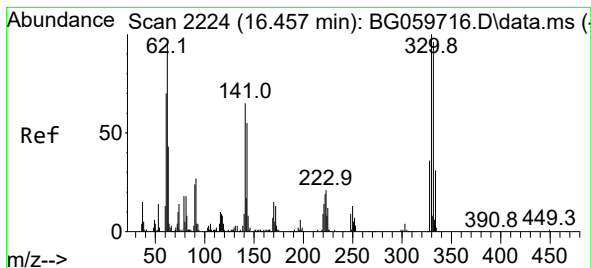


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.963 min Scan# 1970
Delta R.T. -0.008 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29



Tgt Ion:164 Resp: 96646
Ion Ratio Lower Upper
164 100
162 112.4 73.3 109.9#
160 46.9 34.1 51.1





#42

2,4,6-Tribromophenol

Concen: 125.200 ng

RT: 16.449 min Scan# 21

Delta R.T. -0.008 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Instrument :

BNA_G

ClientSampleId :

VNJ-241

Tgt Ion:330 Resp: 137290

Ion Ratio Lower Upper

330 100

332 103.0 73.3 109.9

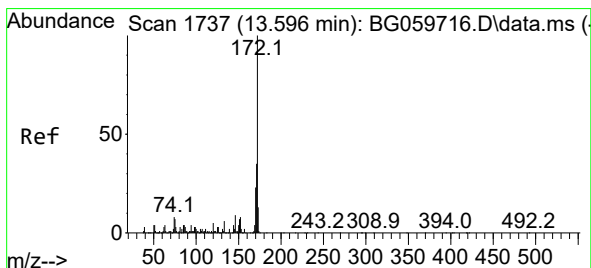
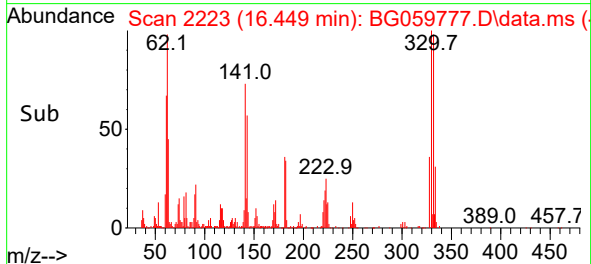
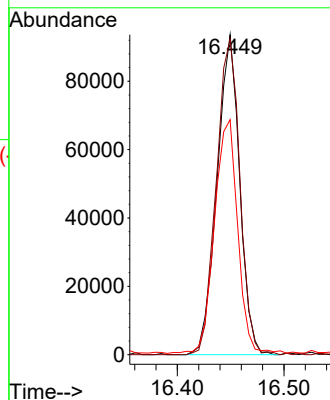
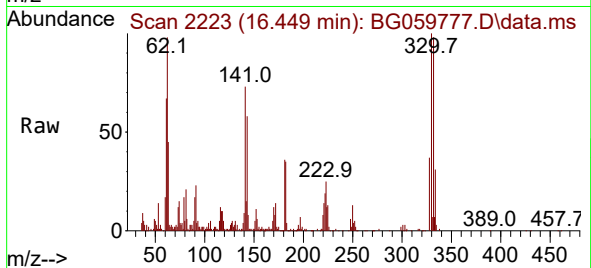
141 75.2 52.1 78.1

Manual Integrations

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Reviewed By :Yogesh Patel 11/21/2023

Supervised By :mohammad ahmed 11/21/2023



#45

2-Fluorobiphenyl

Concen: 78.428 ng

RT: 13.582 min Scan# 1735

Delta R.T. -0.014 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

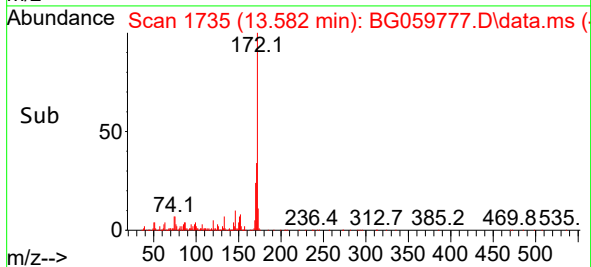
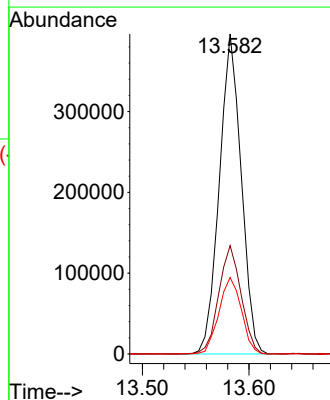
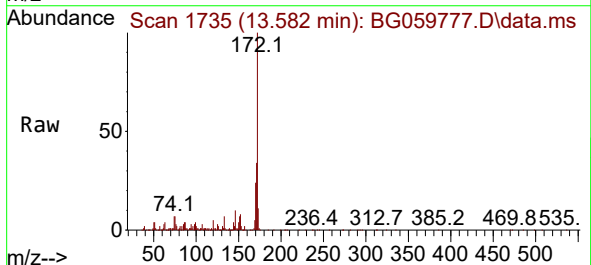
Tgt Ion:172 Resp: 563110

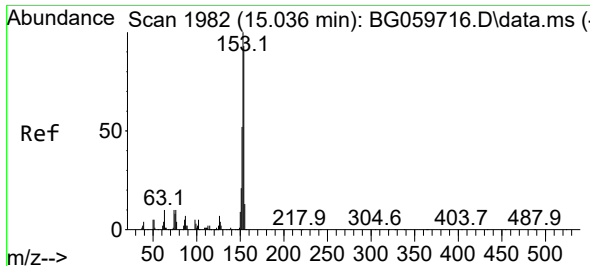
Ion Ratio Lower Upper

172 100

171 33.9 27.7 41.5

170 23.9 18.4 27.6





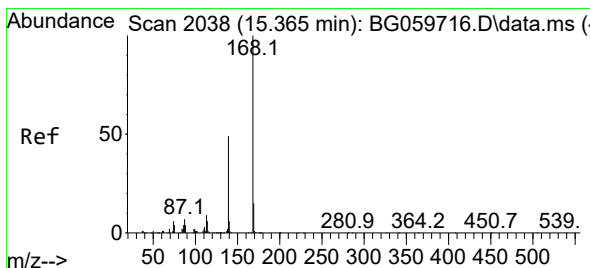
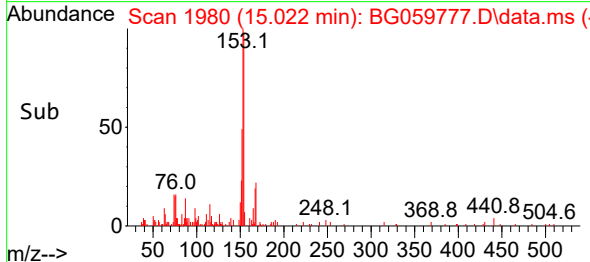
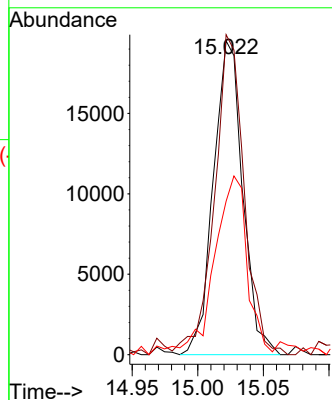
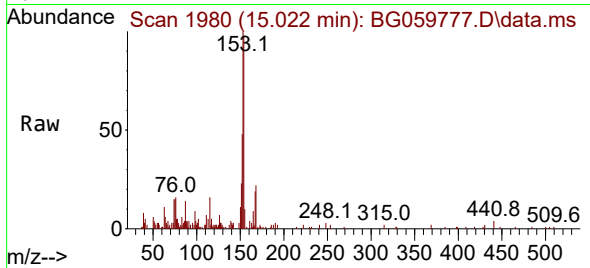
#52
Acenaphthene
Concen: 5.669 ng
RT: 15.022 min Scan# 1982
Delta R.T. -0.014 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Instrument :
BNA_G
ClientSampleId :
VNJ-241

Tgt Ion:154 Resp: 3030
Ion Ratio Lower Upper
154 100
153 102.0 85.8 128.8
152 48.9 44.4 66.6

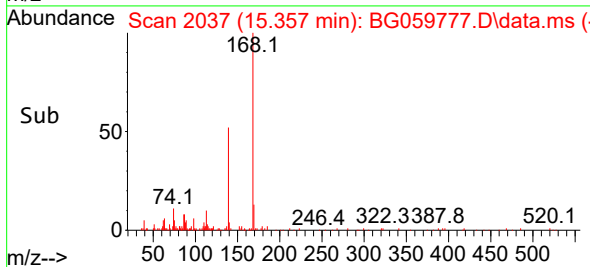
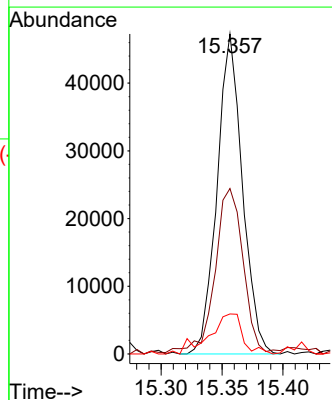
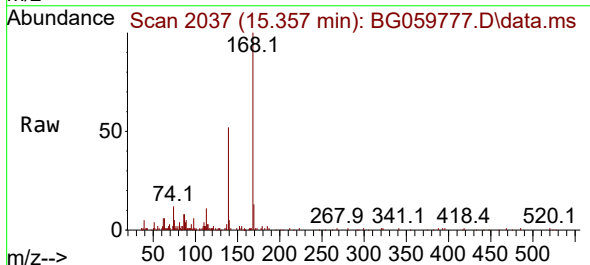
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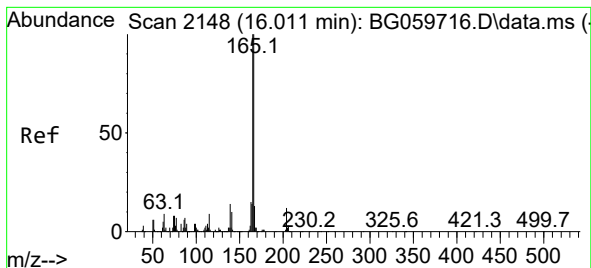
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023



#55
Dibenzofuran
Concen: 7.753 ng
RT: 15.357 min Scan# 2037
Delta R.T. -0.008 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Tgt Ion:168 Resp: 68328
Ion Ratio Lower Upper
168 100
139 51.7 38.9 58.3
169 12.5 11.8 17.8





#58

Fluorene

Concen: 24.967 ng

RT: 16.003 min Scan# 2148

Delta R.T. -0.008 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Instrument :

BNA_G

ClientSampleId :

VNJ-241

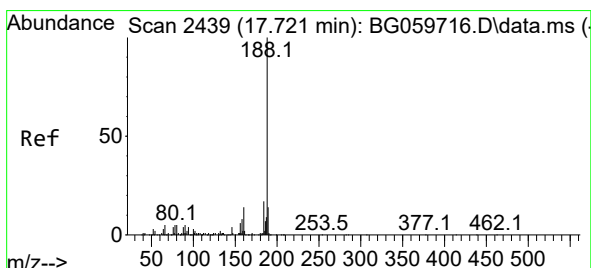
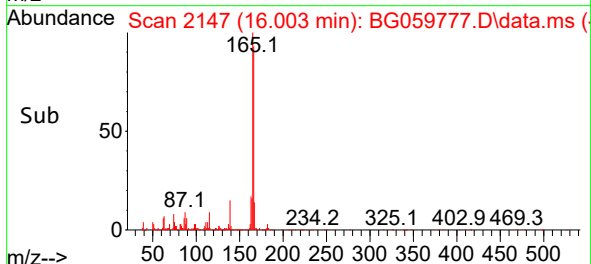
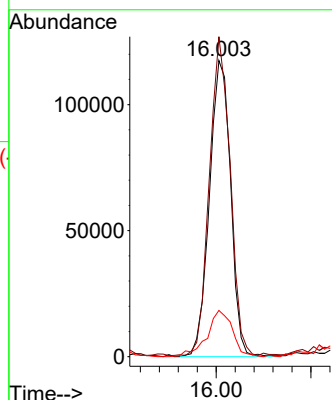
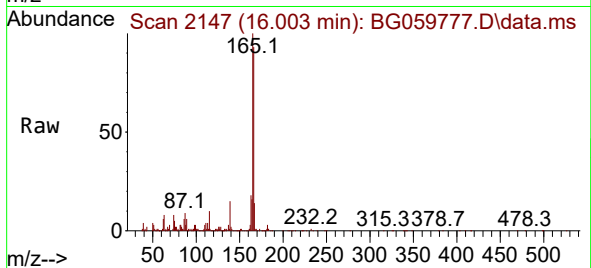
Tgt Ion:	166	Resp:	18280
Ion Ratio	Lower	Upper	
166	100		
165	108.0	79.9	119.9
167	15.6	10.1	15.1

Manual Integrations

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Supervised By :mohammad ahmed 11/21/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

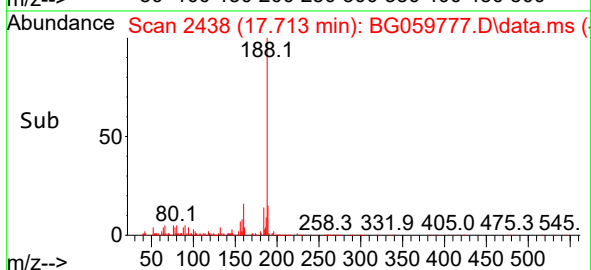
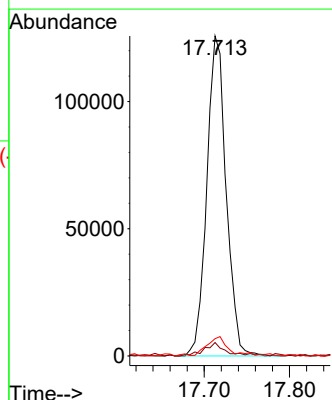
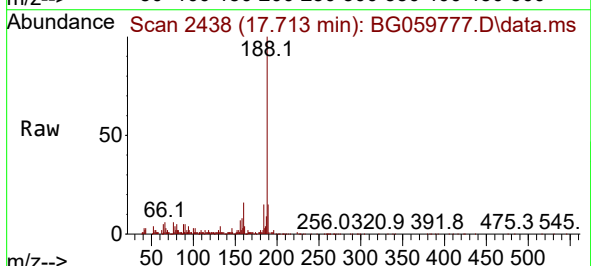
RT: 17.713 min Scan# 2438

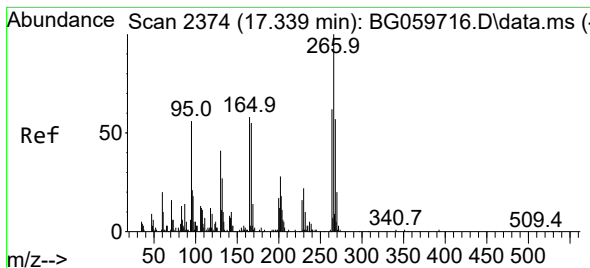
Delta R.T. -0.008 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

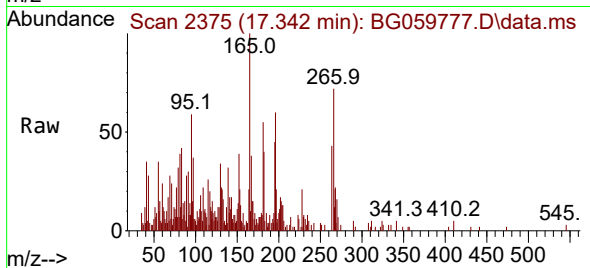
Tgt Ion:	188	Resp:	198295
Ion Ratio	Lower	Upper	
188	100		
94	4.2	3.0	4.4
80	5.4	4.2	6.4





#70
Pentachlorophenol
Concen: 7.782 ng
RT: 17.342 min Scan# 211
Delta R.T. 0.004 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

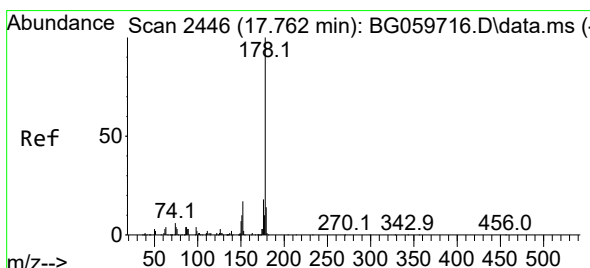
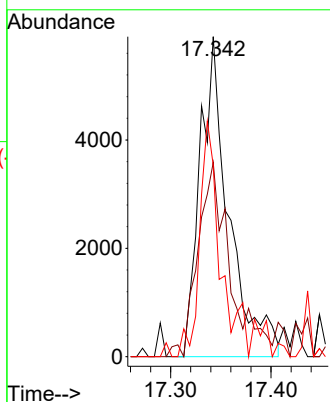
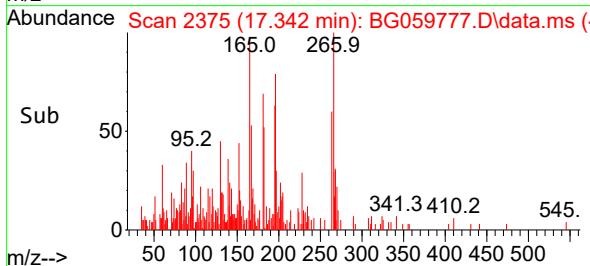
Instrument :
BNA_G
ClientSampleId :
VNJ-241



Tgt Ion:266 Resp: 1180
Ion Ratio Lower Upper
266 100
268 65.8 45.7 68.5
264 59.8 49.8 74.8

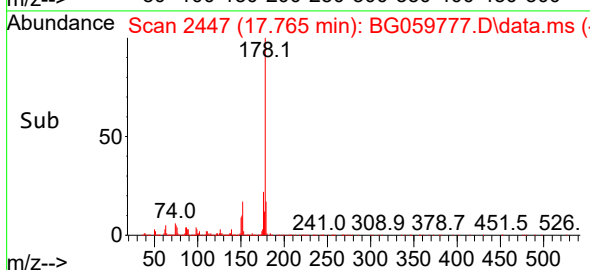
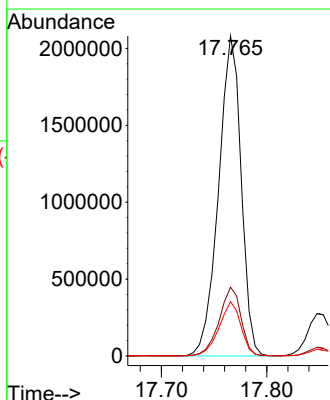
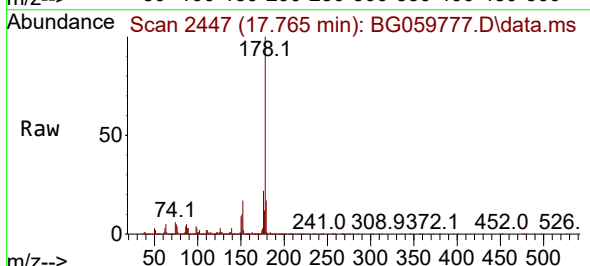
Manual Integrations
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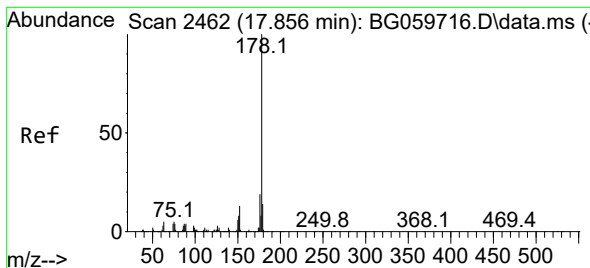
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023



#71
Phenanthrene
Concen: 307.047 ng m
RT: 17.765 min Scan# 2447
Delta R.T. 0.004 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Tgt Ion:178 Resp: 3095579
Ion Ratio Lower Upper
178 100
176 21.5 14.5 21.7
179 17.0 11.2 16.8#





#72

Anthracene

Concen: 41.003 ng

RT: 17.848 min Scan# 2461

Delta R.T. -0.008 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Instrument :

BNA_G

ClientSampleId :

VNJ-241

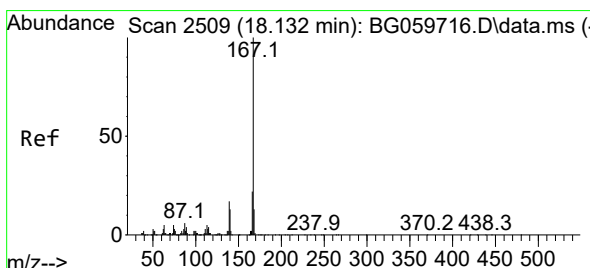
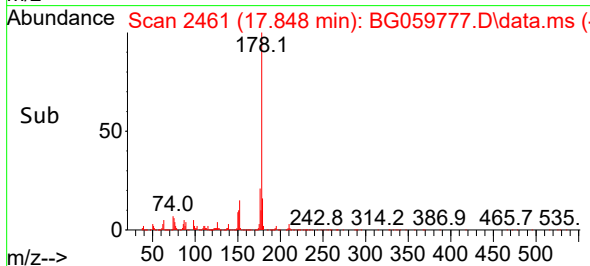
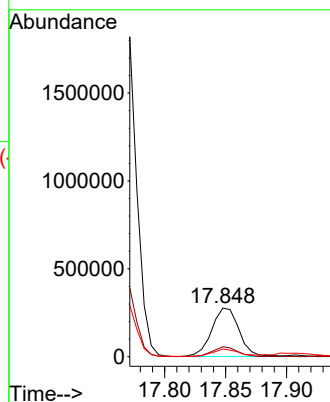
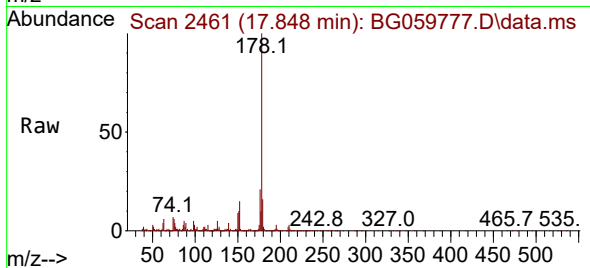
Tgt Ion:178 Resp: 429511
 Ion Ratio Lower Upper
 178 100
 176 20.5 15.0 22.4
 179 15.9 11.5 17.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/21/2023

Supervised By :mohammad ahmed 11/21/2023



#73

Carbazole

Concen: 2.916 ng

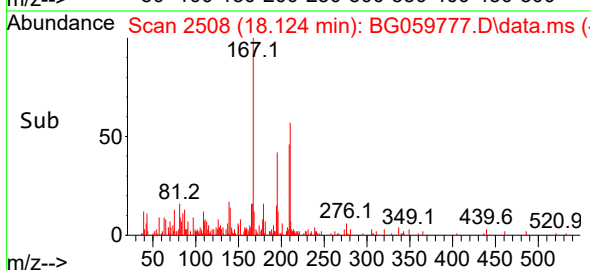
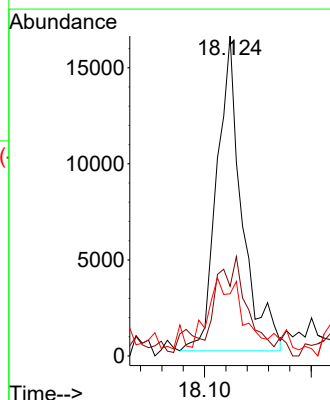
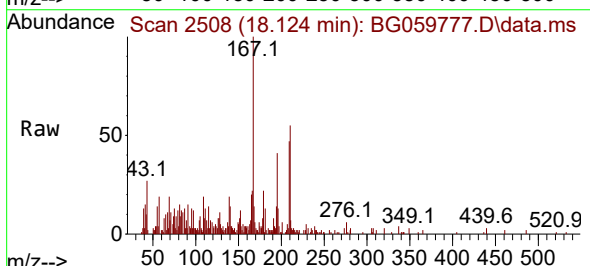
RT: 18.124 min Scan# 2508

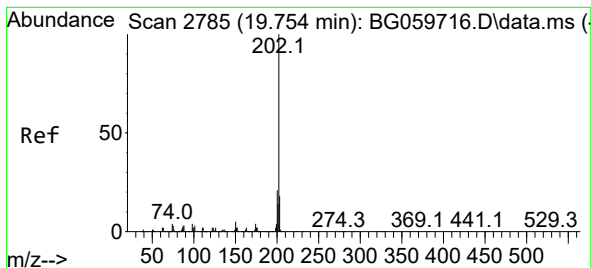
Delta R.T. -0.008 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

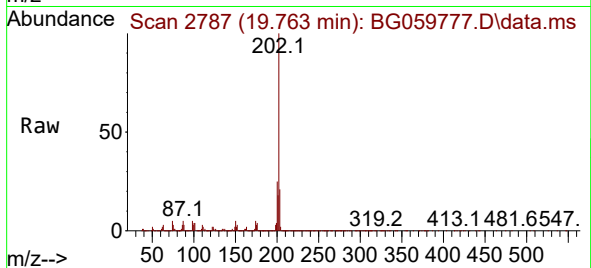
Tgt Ion:167 Resp: 26683
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.4 26.0
 139 19.4 13.2 19.8





#75
Fluoranthene
Concen: 355.375 ng
RT: 19.763 min Scan# 21
Delta R.T. 0.010 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

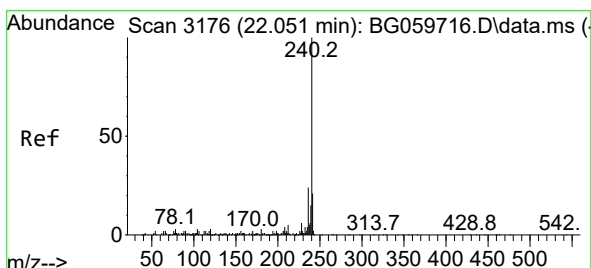
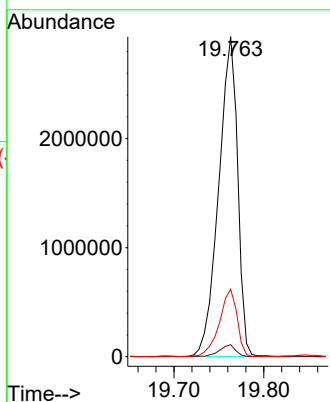
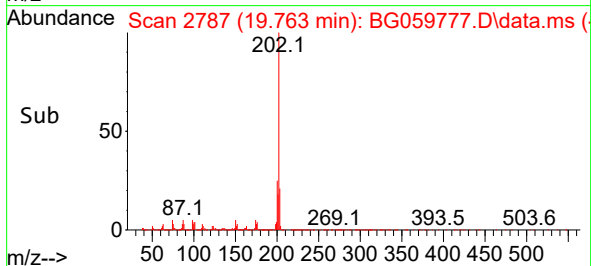
Instrument :
BNA_G
ClientSampleId :
VNJ-241



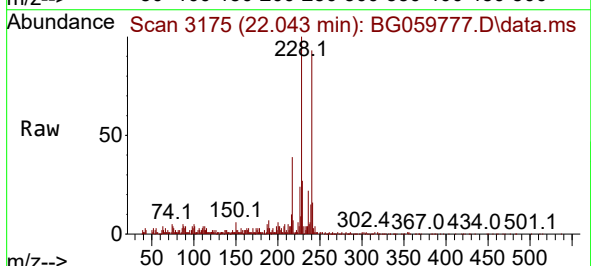
Tgt Ion:202 Resp: 4296634
Ion Ratio Lower Upper
202 100
101 3.7 0.0 22.7
203 21.1 0.0 38.2

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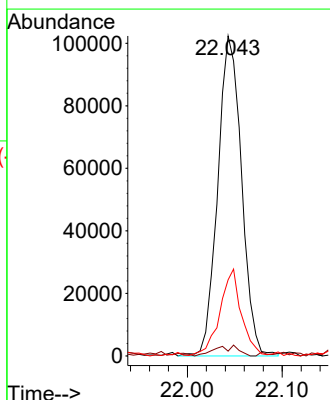
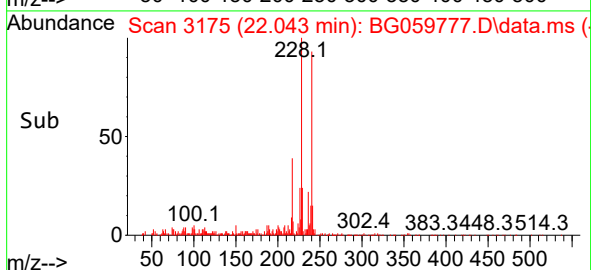
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023

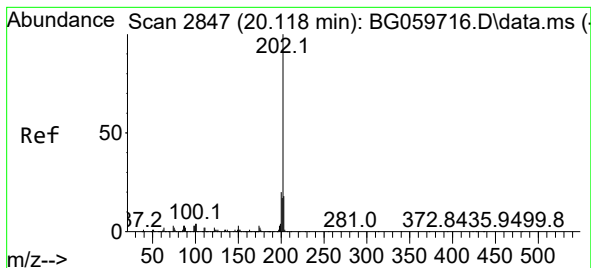


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.043 min Scan# 3175
Delta R.T. -0.008 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29



Tgt Ion:240 Resp: 178680
Ion Ratio Lower Upper
240 100
120 1.5 2.2 3.2#
236 23.8 19.4 29.2





#78

Pyrene

Concen: 215.134 ng

RT: 20.122 min Scan# 2847

Delta R.T. 0.004 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Instrument :

BNA_G

ClientSampleId :

VNJ-241

Tgt Ion:202 Resp: 261544

Ion Ratio Lower Upper

202 100

200 21.8 16.2 24.4

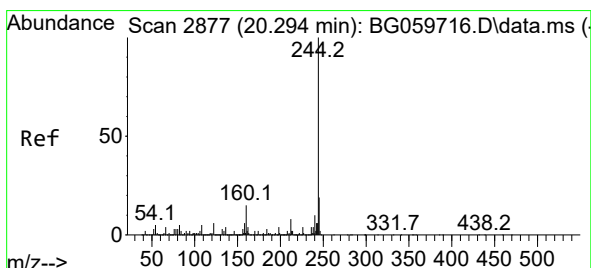
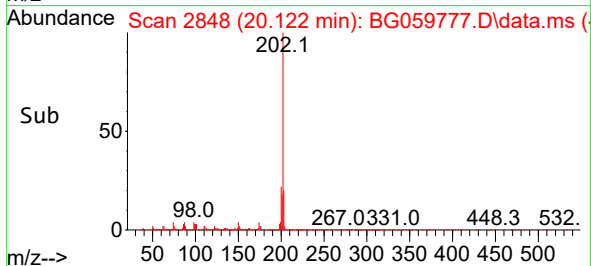
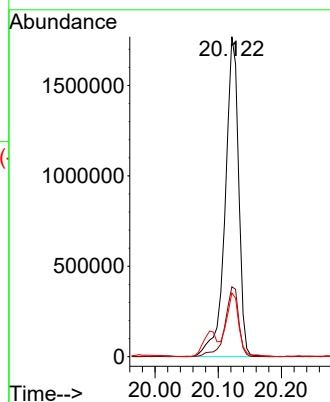
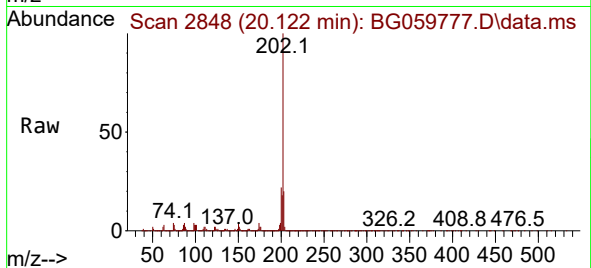
203 19.9 14.0 21.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/21/2023

Supervised By :mohammad ahmed 11/21/2023



#79

Terphenyl-d14

Concen: 74.484 ng

RT: 20.292 min Scan# 2877

Delta R.T. -0.002 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

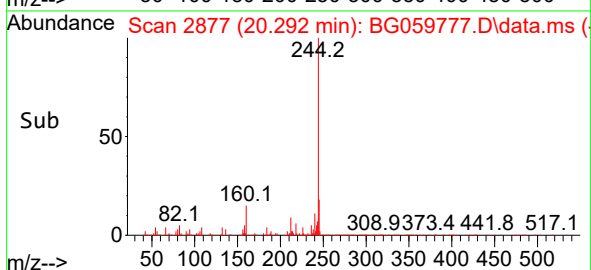
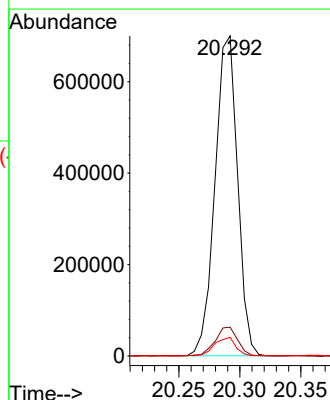
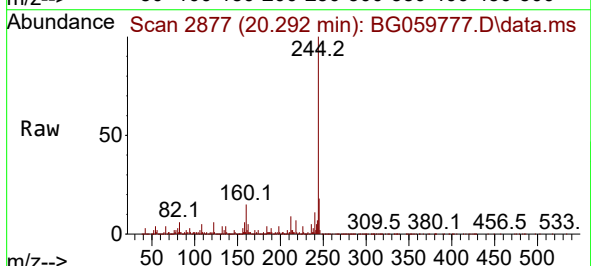
Tgt Ion:244 Resp: 901531

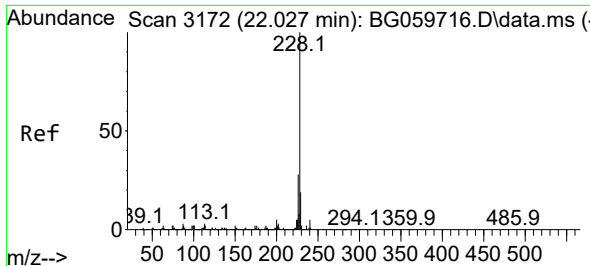
Ion Ratio Lower Upper

244 100

212 9.0 6.6 10.0

122 5.8 4.4 6.6





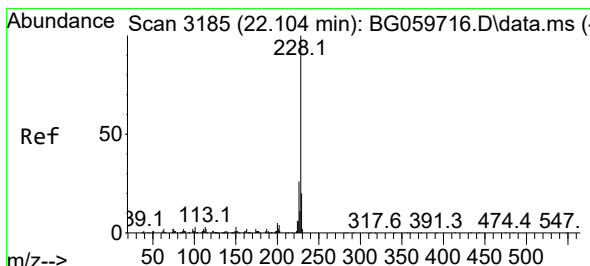
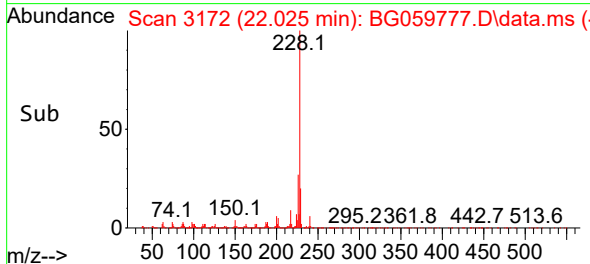
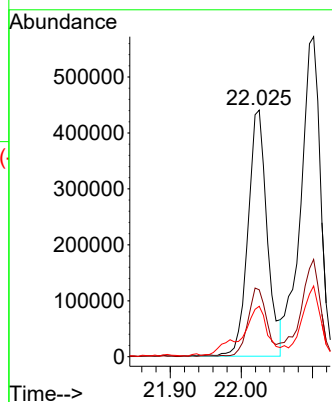
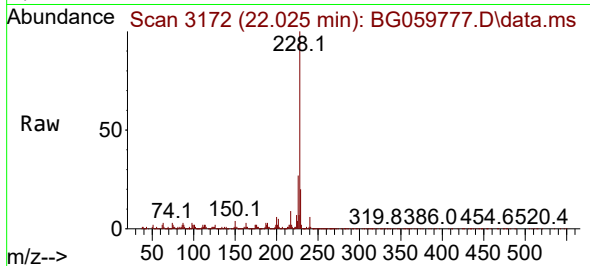
#81
Benzo(a)anthracene
Concen: 67.507 ng
RT: 22.025 min Scan# 3172
Delta R.T. -0.002 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Instrument :
BNA_G
ClientSampleId :
VNJ-241

Tgt Ion:228 Resp: 825318
Ion Ratio Lower Upper
228 100
226 27.1 22.1 33.1
229 20.5 14.9 22.3

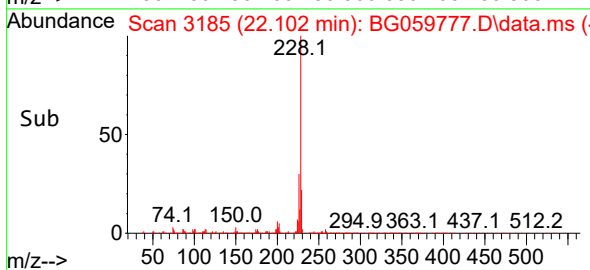
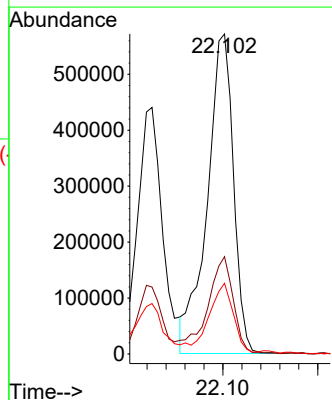
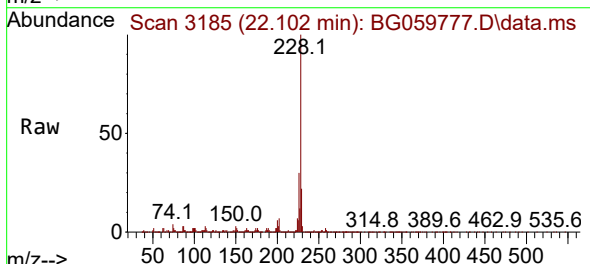
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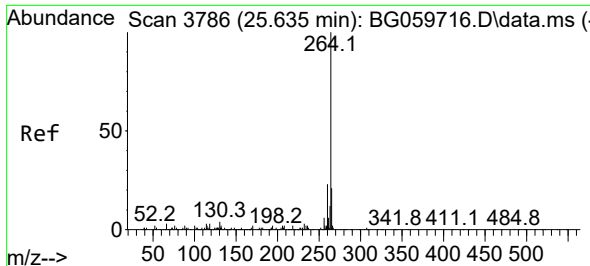
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023



#83
Chrysene
Concen: 97.976 ng
RT: 22.102 min Scan# 3185
Delta R.T. -0.002 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Tgt Ion:228 Resp: 1098042
Ion Ratio Lower Upper
228 100
226 30.4 21.1 31.7
229 22.1 16.2 24.4





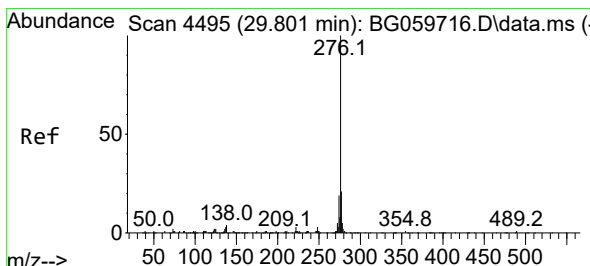
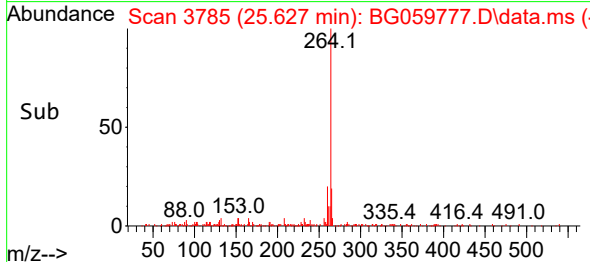
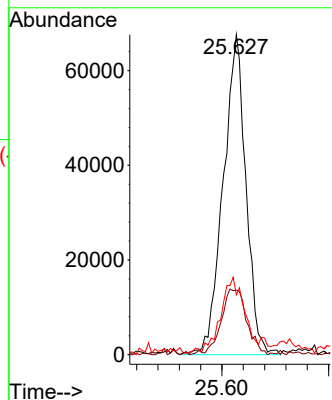
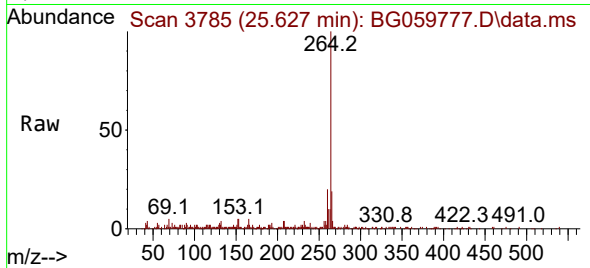
#86
Perylene-d12
Concen: 20.000 ng
RT: 25.627 min Scan# 31
Delta R.T. -0.008 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Instrument :
BNA_G
ClientSampleId :
VNJ-241

Tgt Ion:264 Resp: 200458
Ion Ratio Lower Upper
264 100
260 20.1 18.5 27.7
265 18.7 17.0 25.6

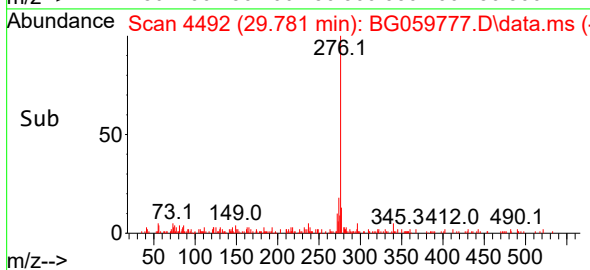
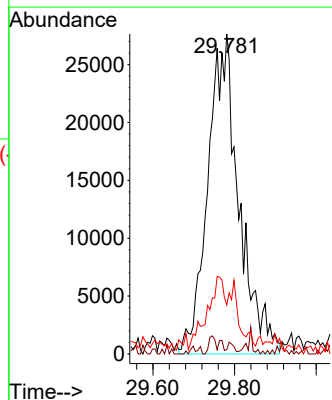
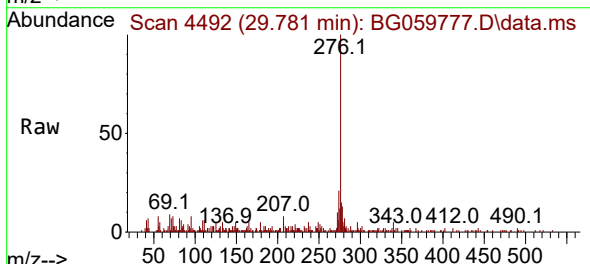
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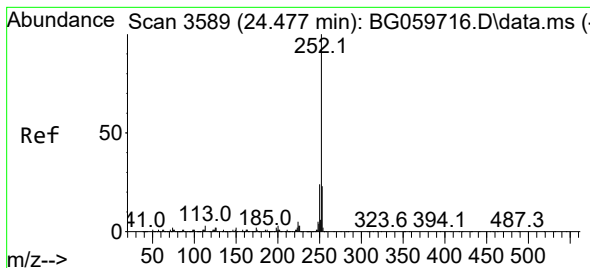
Reviewed By :Yogesh Patel 11/21/2023
Supervised By :mohammad ahmed 11/21/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 9.632 ng m
RT: 29.781 min Scan# 4492
Delta R.T. -0.020 min
Lab File: BG059777.D
Acq: 20 Nov 2023 20:29

Tgt Ion:276 Resp: 146093
Ion Ratio Lower Upper
276 100
138 0.6 1.8 2.6#
277 13.3 9.8 14.6





#88

Benzo(b)fluoranthene

Concen: 49.012 ng

RT: 24.469 min Scan# 3

Delta R.T. -0.008 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Instrument :

BNA_G

ClientSampleId :

VNJ-241

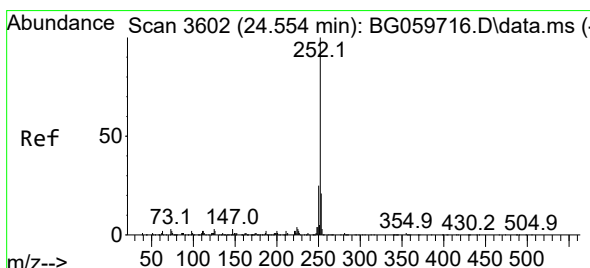
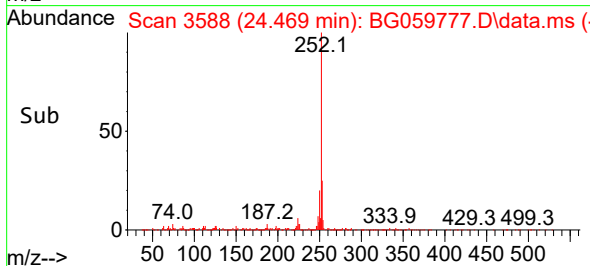
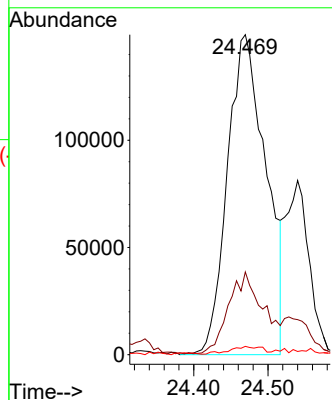
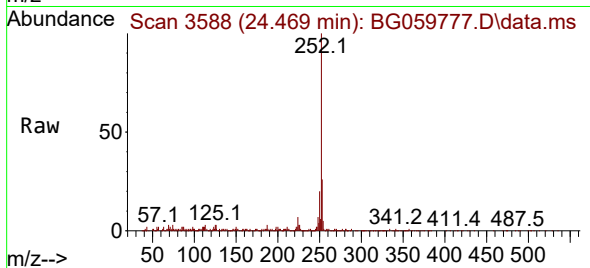
Tgt Ion:252 Resp: 538490
 Ion Ratio Lower Upper
 252 100
 253 25.8 18.3 27.5
 125 2.6 1.4 2.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/21/2023

Supervised By :mohammad ahmed 11/21/2023



#89

Benzo(k)fluoranthene

Concen: 16.414 ng m

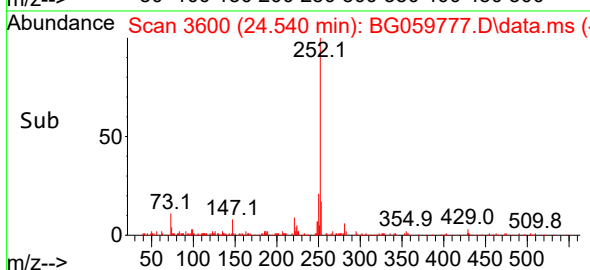
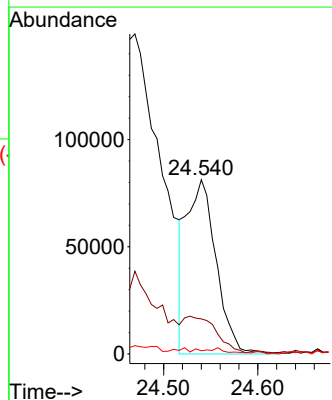
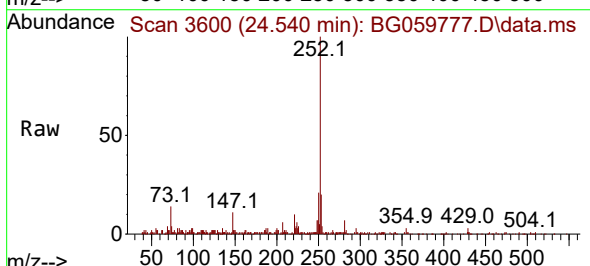
RT: 24.540 min Scan# 3600

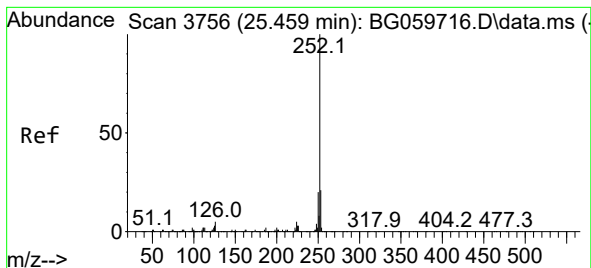
Delta R.T. -0.014 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Tgt Ion:252 Resp: 178284
 Ion Ratio Lower Upper
 252 100
 253 20.1 17.1 25.7
 125 1.9 2.2 3.2





#90

Benzo(a)pyrene

Concen: 22.811 ng

RT: 25.445 min Scan# 31

Delta R.T. -0.014 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Instrument :

BNA_G

ClientSampleId :

VNJ-241

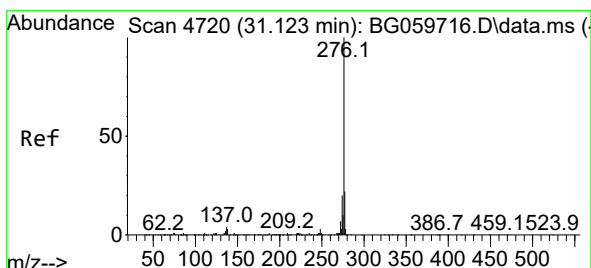
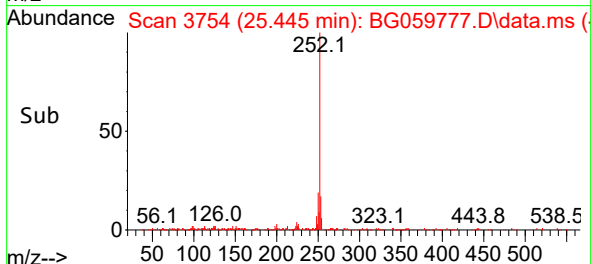
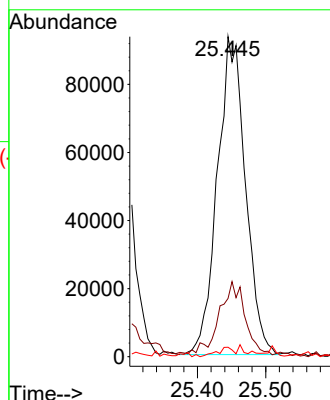
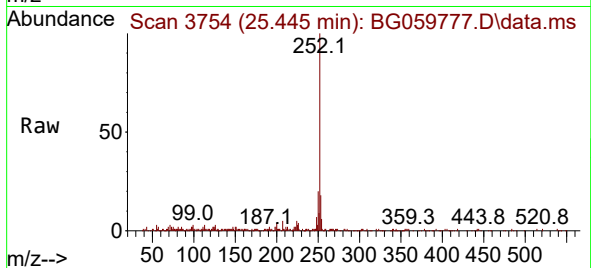
Tgt Ion:	252	Resp:	26747
Ion Ratio	Lower	Upper	
252	100		
253	18.2	16.8	25.2
125	3.0	2.0	3.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/21/2023

Supervised By :mohammad ahmed 11/21/2023



#92

Benzo(g,h,i)perylene

Concen: 9.842 ng m

RT: 31.091 min Scan# 4715

Delta R.T. -0.032 min

Lab File: BG059777.D

Acq: 20 Nov 2023 20:29

Tgt Ion:	276	Resp:	119835
Ion Ratio	Lower	Upper	
276	100		
277	22.3	17.3	25.9
138	5.5	2.6	4.0

