

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100821\
 Data File : BG050529.D
 Acq On : 9 Oct 2021 4:37
 Operator : CG/JU
 Sample : M4107-01 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OK-01-100621

Manual Integrations
 APPROVED

mohammad
 10/11/2021 2:10:42 PM

Quant Time: Oct 09 05:14:08 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100621.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 06 15:51:01 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.259	152	64346	20.00	ng	0.00
21) Naphthalene-d8	11.085	136	274197	20.00	ng	# 0.00
39) Acenaphthene-d10	14.881	164	168643	20.00	ng	0.00
64) Phenanthrene-d10	17.625	188	320401	20.00	ng	# 0.00
76) Chrysene-d12	21.931	240	270531	20.00	ng	# 0.01
86) Perylene-d12	25.351	264	280813	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.791	112	39388	9.15	ng	0.00
7) Phenol-d6	7.395	99	56247	9.03	ng	0.00
23) Nitrobenzene-d5	9.428	82	40018	6.04	ng	0.00
42) 2,4,6-Tribromophenol	16.355	330	12179	7.57	ng	0.00
45) 2-Fluorobiphenyl	13.500	172	71288	6.36	ng	0.00
79) Terphenyl-d14	20.210	244	86941	6.26	ng	0.00
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	10.233	122	10439	2.50	ng	94
31) Naphthalene	11.138	128	739208	50.37	ng	97
37) 2-Methylnaphthalene	12.719	142	103267	10.20	ng	94
38) 1-Methylnaphthalene	12.936	142	79551	8.10	ng	94
46) 1,1'-Biphenyl	13.712	154	31354	2.55	ng	95
52) Acenaphthene	14.939	154	406656	40.89	ng	93
55) Dibenzofuran	15.274	168	246126	16.00	ng	97
58) Fluorene	15.921	166	394556	33.40	ng	95
71) Phenanthrene	17.677	178	2696037m	159.68	ng	
72) Anthracene	17.760	178	765980	45.65	ng	97
73) Carbazole	18.024	167	516262	30.87	ng	99
75) Fluoranthene	19.675	202	3307302	159.35	ng	77
78) Pyrene	20.034	202	2942253	153.29	ng	# 80
81) Benzo(a)anthracene	21.914	228	1800610	100.59	ng	93
83) Chrysene	21.984	228	1549157	92.00	ng	# 87
87) Indeno(1,2,3-cd)pyrene	29.293	276	738812	37.77	ng	# 92
88) Benzo(b)fluoranthene	24.276	252	1912923	111.23	ng	# 90
89) Benzo(k)fluoranthene	24.334	252	709548m	41.94	ng	
90) Benzo(a)pyrene	25.210	252	1486330	101.65	ng	# 90
91) Dibenzo(a,h)anthracene	29.340	278	179321	11.08	ng	# 84
92) Benzo(g,h,i)perylene	30.533	276	721090	45.51	ng	# 91

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

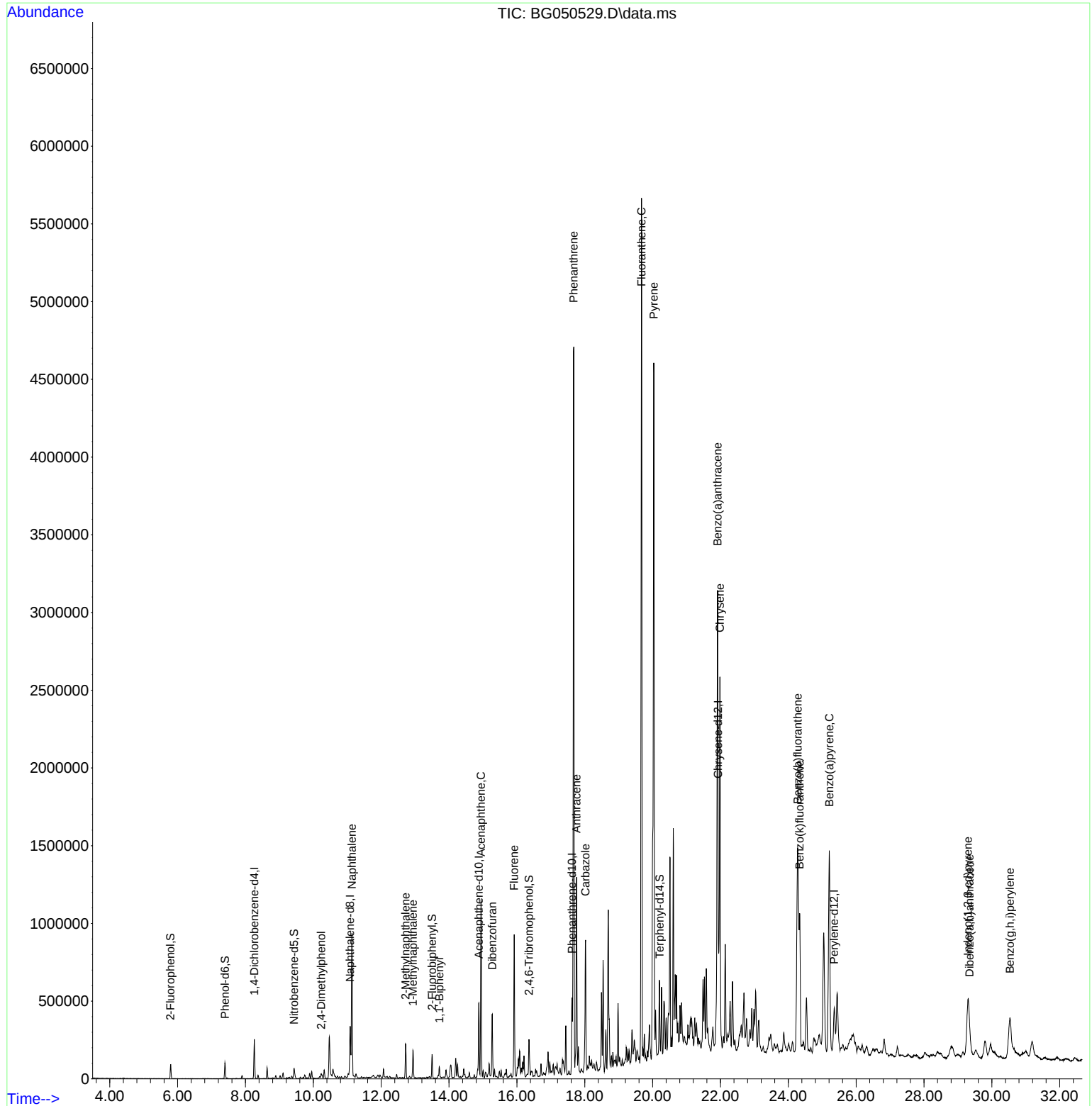
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100821\
Data File : BG050529.D
Acq On : 9 Oct 2021 4:37
Operator : CG/JU
Sample : M4107-01 10X
Misc :
ALS Vial : 18 Sample Multiplier: 1

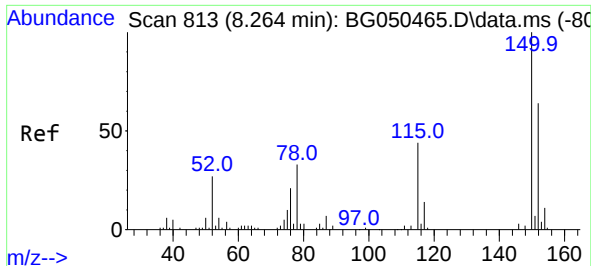
Instrument :
BNA_G
ClientSampleId :
OK-01-100621

Manual Integrations
APPROVED

mohammad
10/11/2021 2:10:42 PM

Quant Time: Oct 09 05:14:08 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 06 15:51:01 2021
Response via : Initial Calibration





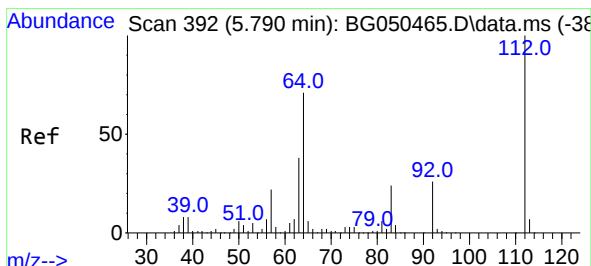
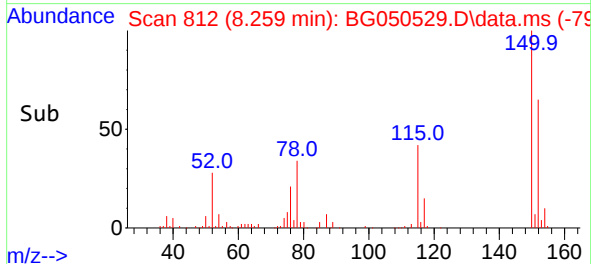
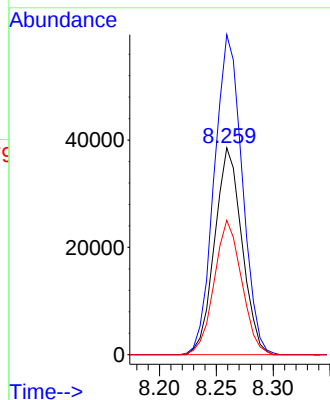
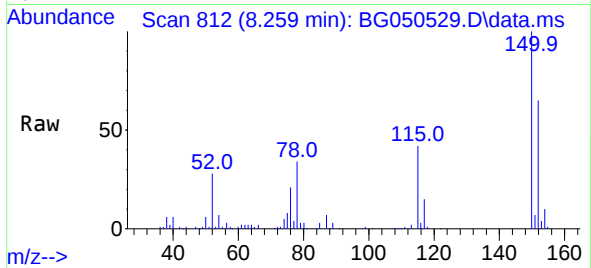
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.259 min Scan# 812
Delta R.T. -0.005 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:152 Resp: 64346
Ion Ratio Lower Upper
152 100
150 154.7 119.4 179.0
115 65.0 60.2 90.4

Instrument :
BNA_G
ClientSampled :
OK-01-100621

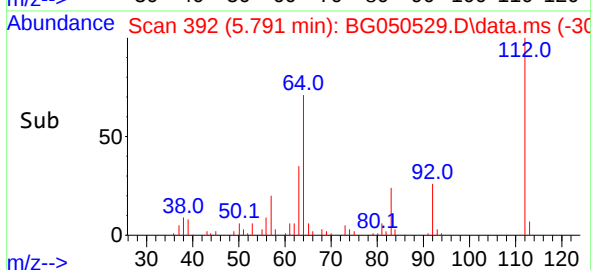
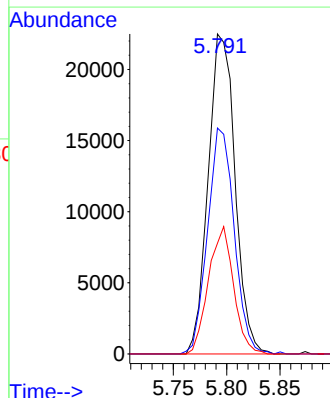
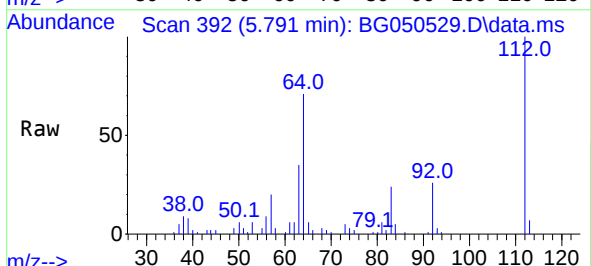
Manual Integrations
APPROVED

mohammad
10/11/2021 2:10:42 PM



#5
2-Fluorophenol
Concen: 9.15 ng
RT: 5.791 min Scan# 392
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:112 Resp: 39388
Ion Ratio Lower Upper
112 100
64 70.6 46.7 70.1#
63 34.6 35.3 52.9#





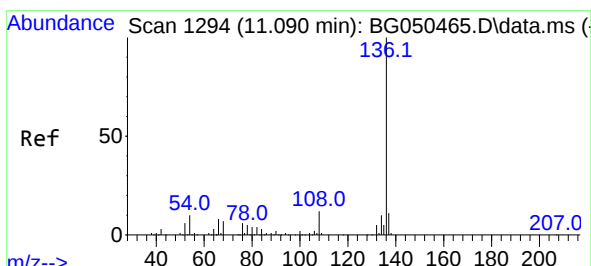
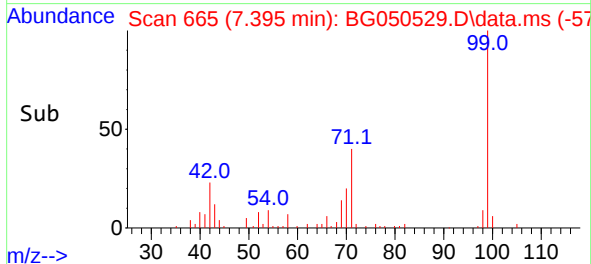
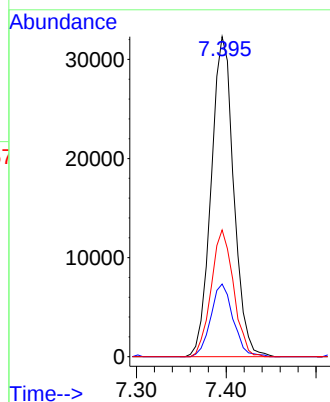
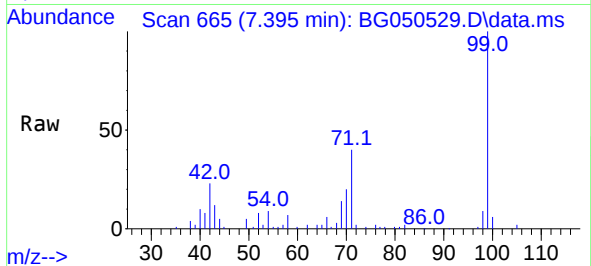
#7
Phenol-d6
Concen: 9.03 ng
RT: 7.395 min Scan# 665
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:	99	Resp:	56247
Ion	Ratio	Lower	Upper
99	100		
42	22.7	20.5	30.7
71	39.6	41.5	62.3#

Instrument :
BNA_G
ClientSampled :
OK-01-100621

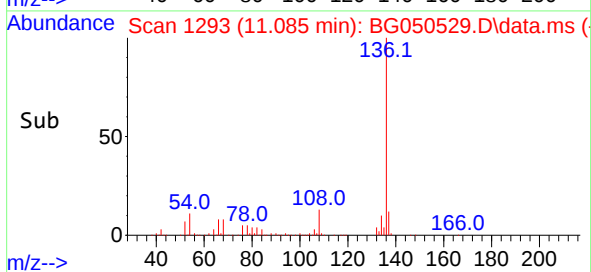
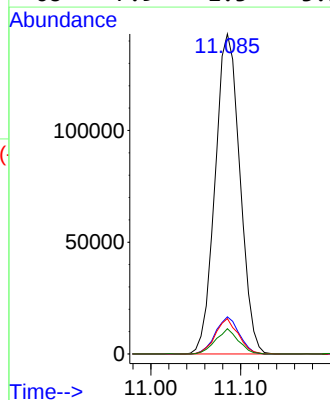
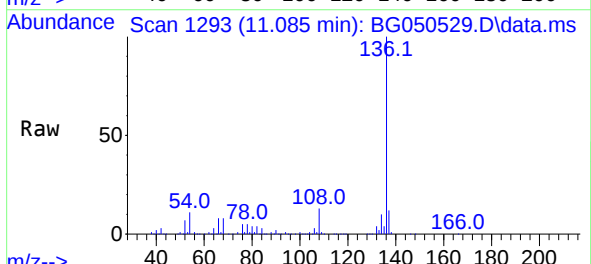
Manual Integrations
APPROVED

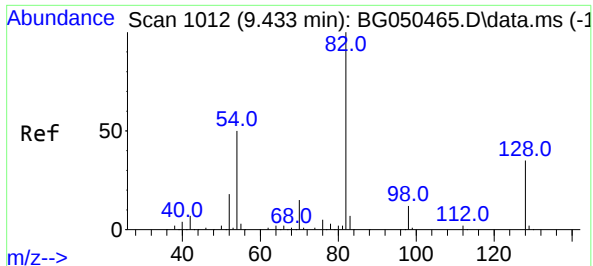
mohammad
10/11/2021 2:10:42 PM



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 11.085 min Scan# 1293
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:	136	Resp:	274197
Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.2	12.2
54	11.1	5.5	8.3#
68	7.9	2.3	3.5#





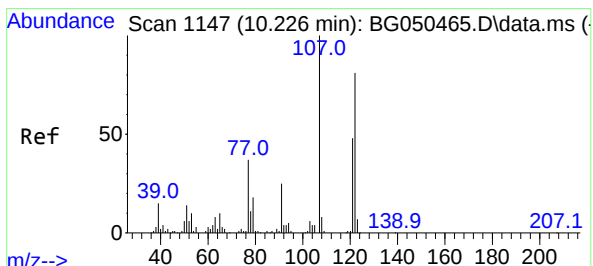
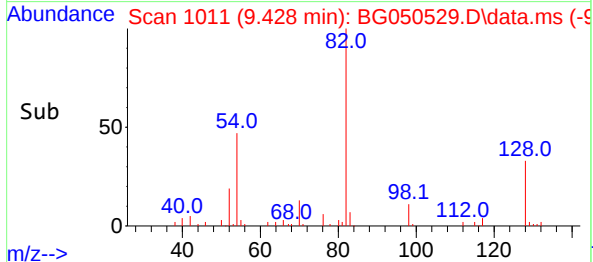
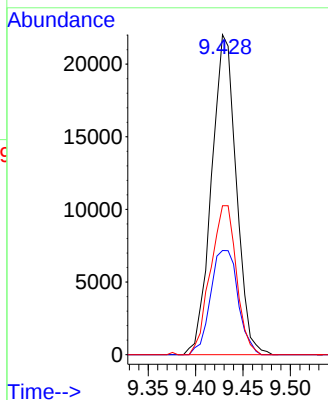
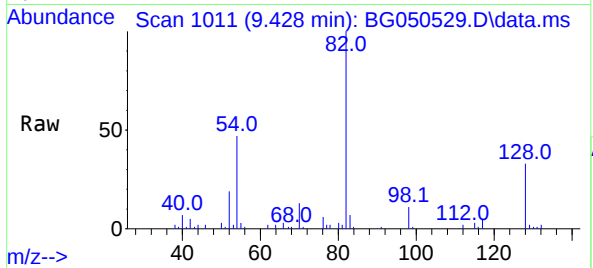
#23
Nitrobenzene-d5
Concen: 6.04 ng
RT: 9.428 min Scan# 1011
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:	82	Resp:	40018
Ion	Ratio	Lower	Upper
82	100		
128	32.6	29.8	44.6
54	46.6	45.8	68.8

Instrument :
BNA_G
ClientSampleId :
OK-01-100621

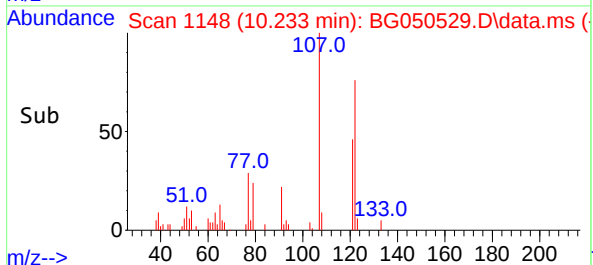
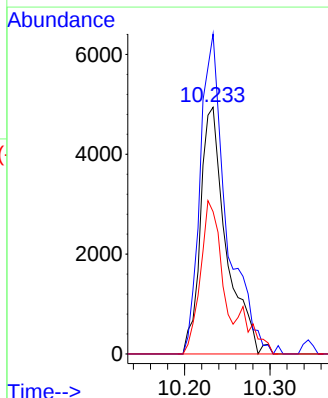
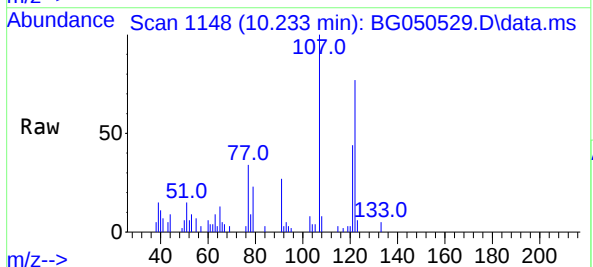
Manual Integrations
APPROVED

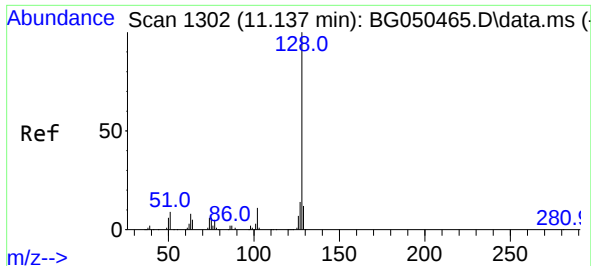
mohammad
10/11/2021 2:10:42 PM



#27
2,4-Dimethylphenol
Concen: 2.50 ng
RT: 10.233 min Scan# 1148
Delta R.T. 0.007 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:	122	Resp:	10439
Ion	Ratio	Lower	Upper
122	100		
107	129.7	110.1	165.1
121	57.7	49.0	73.6





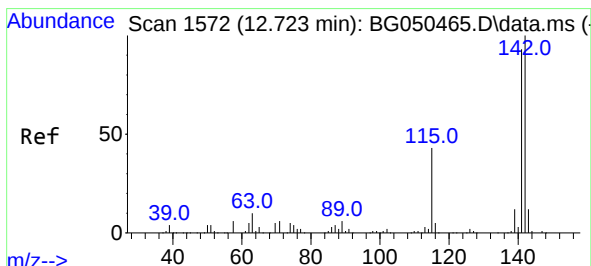
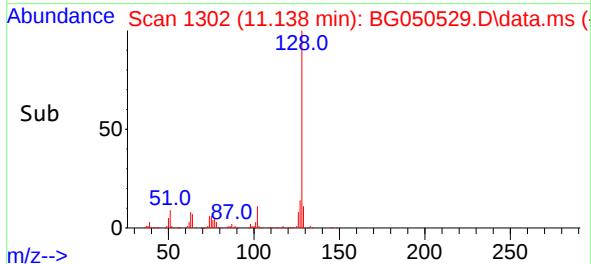
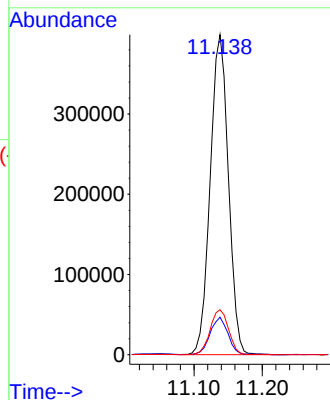
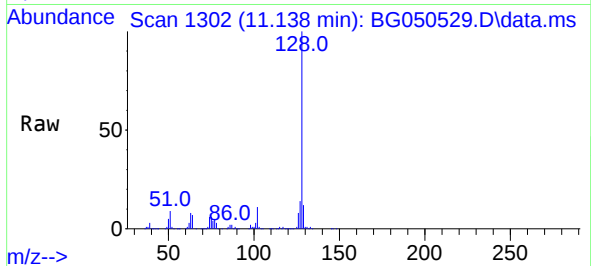
#31
Naphthalene
Concen: 50.37 ng
RT: 11.138 min Scan# 1302
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:128 Resp: 739208
Ion Ratio Lower Upper
128 100
129 11.7 8.5 12.7
127 14.1 10.2 15.4

Instrument :
BNA_G
ClientSampleId :
OK-01-100621

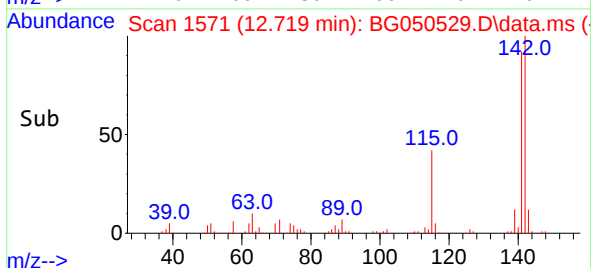
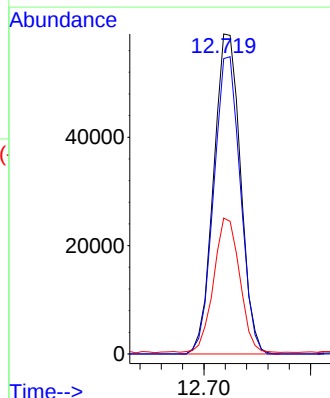
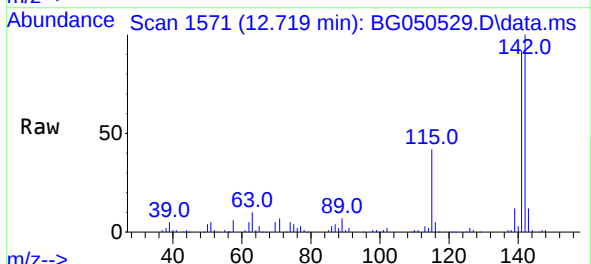
Manual Integrations
APPROVED

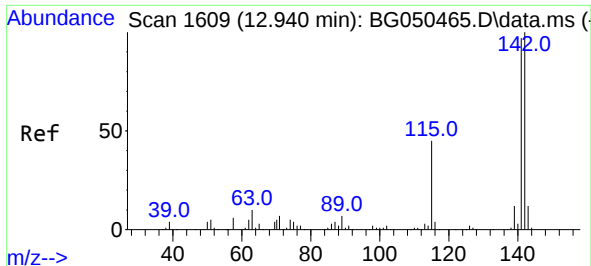
mohammad
10/11/2021 2:10:42 PM



#37
2-Methylnaphthalene
Concen: 10.20 ng
RT: 12.719 min Scan# 1571
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

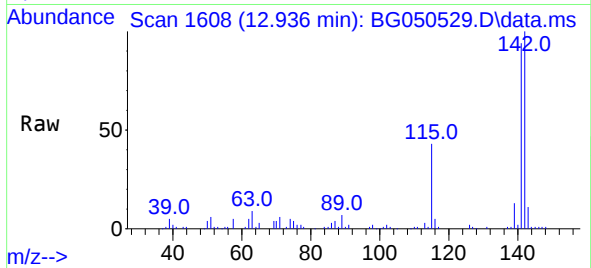
Tgt Ion:142 Resp: 103267
Ion Ratio Lower Upper
142 100
141 92.3 68.8 103.2
115 42.5 36.4 54.6





#38
1-Methylnaphthalene
Concen: 8.10 ng
RT: 12.936 min Scan# 1608
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

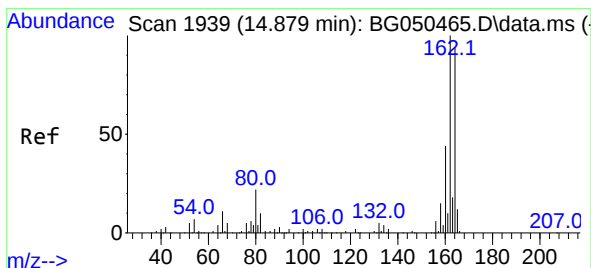
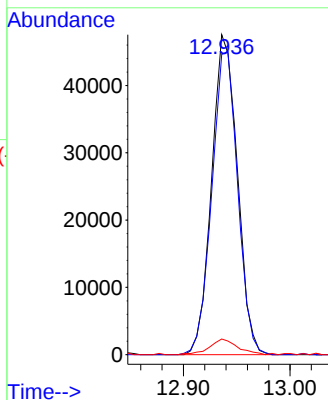
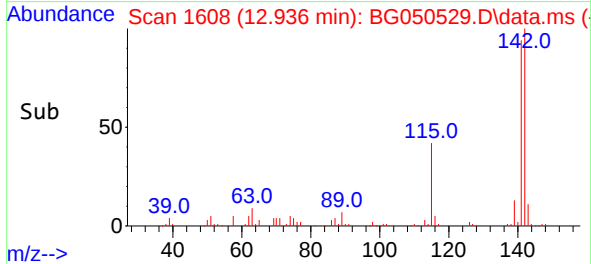
Instrument :
BNA_G
ClientSampled :
OK-01-100621



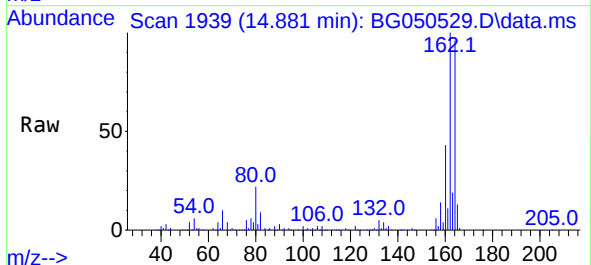
Tgt Ion:142 Resp: 79551
Ion Ratio Lower Upper
142 100
141 93.8 70.6 106.0
116 4.9 4.0 6.0

Manual Integrations
APPROVED

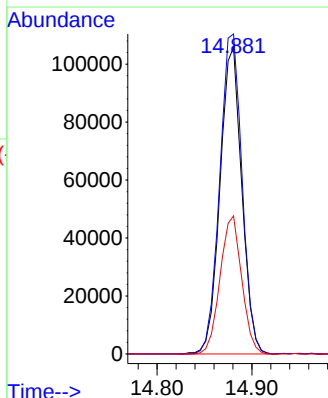
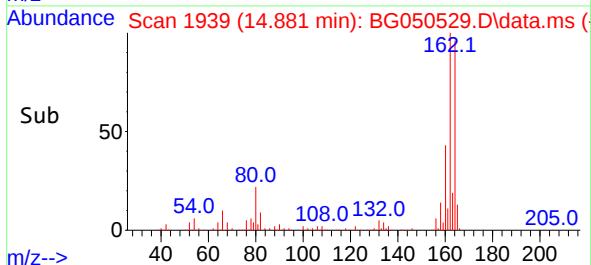
mohammad
10/11/2021 2:10:42 PM

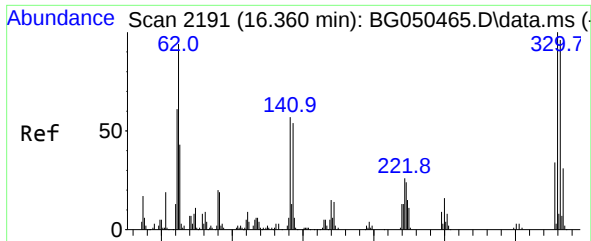


#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.881 min Scan# 1939
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



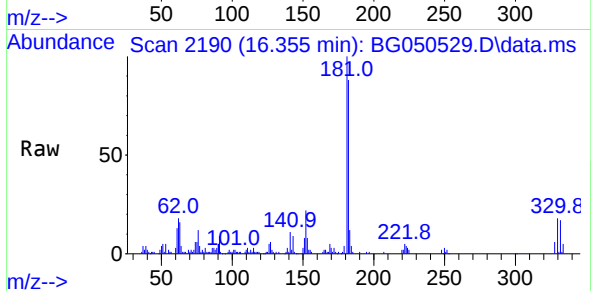
Tgt Ion:164 Resp: 168643
Ion Ratio Lower Upper
164 100
162 104.3 81.4 122.0
160 45.0 34.9 52.3





#42
2,4,6-Tribromophenol
Concen: 7.57 ng
RT: 16.355 min Scan# 2190
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

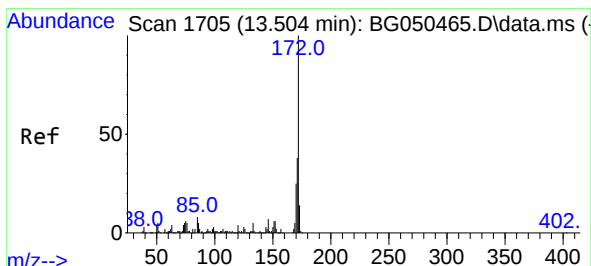
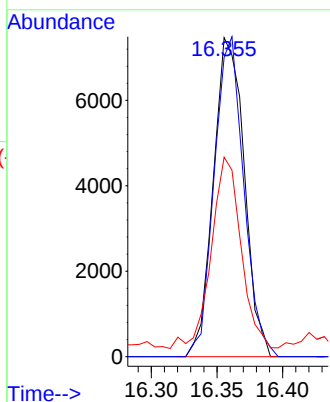
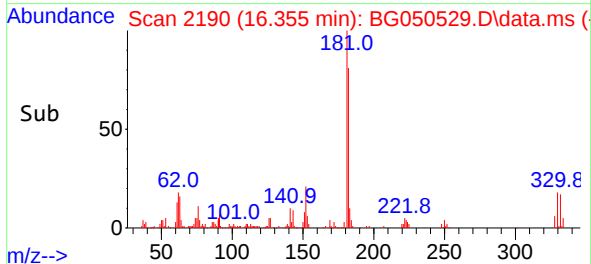
Instrument :
BNA_G
ClientSampled :
OK-01-100621



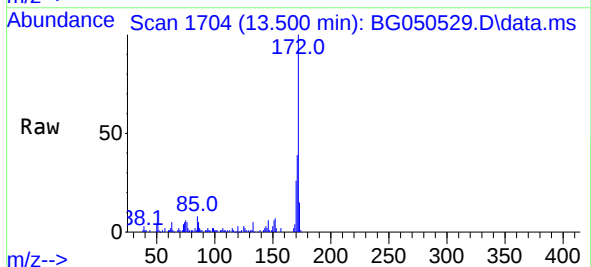
Tgt Ion:330 Resp: 12179
Ion Ratio Lower Upper
330 100
332 95.9 77.3 115.9
141 57.9 35.6 53.4#

Manual Integrations
APPROVED

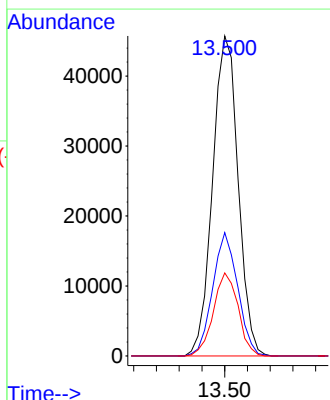
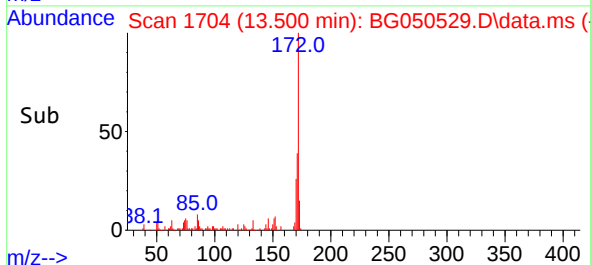
mohammad
10/11/2021 2:10:42 PM

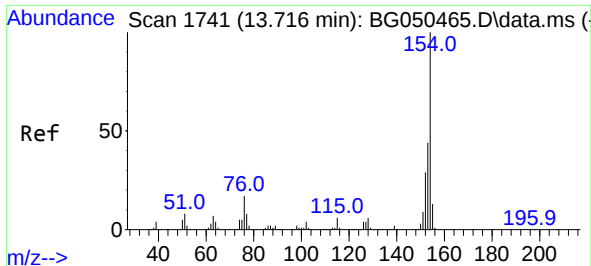


#45
2-Fluorobiphenyl
Concen: 6.36 ng
RT: 13.500 min Scan# 1704
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



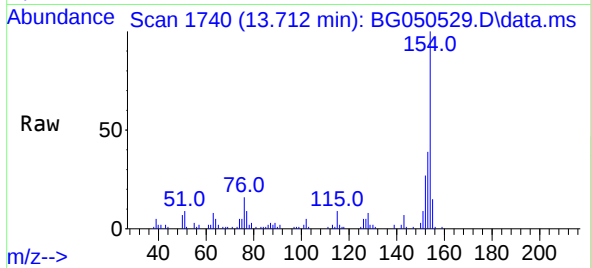
Tgt Ion:172 Resp: 71288
Ion Ratio Lower Upper
172 100
171 38.5 28.6 43.0
170 25.9 18.6 27.8





#46
1,1'-Biphenyl
Concen: 2.55 ng
RT: 13.712 min Scan# 1740
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

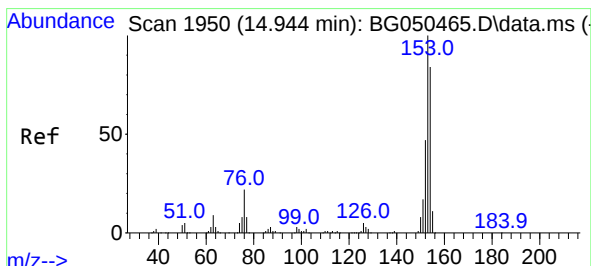
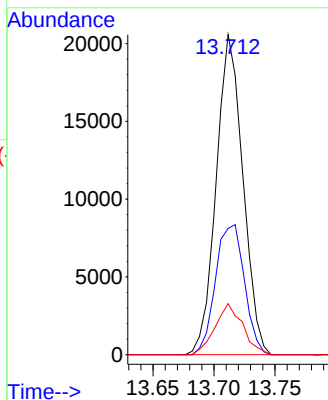
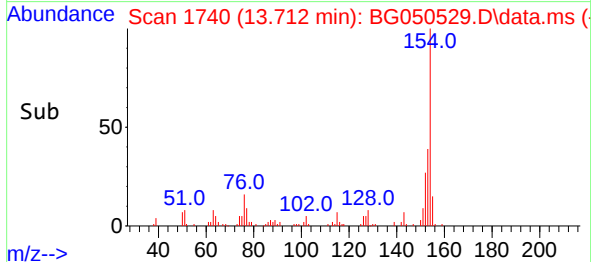
Instrument :
BNA_G
ClientSampled :
OK-01-100621



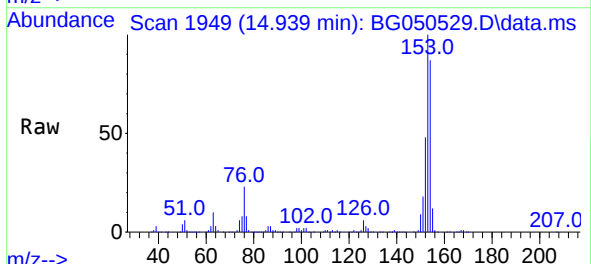
Tgt Ion:154 Resp: 31354
Ion Ratio Lower Upper
154 100
153 39.4 20.5 60.5
76 16.0 0.0 29.3

Manual Integrations
APPROVED

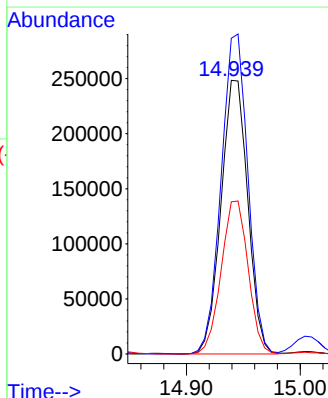
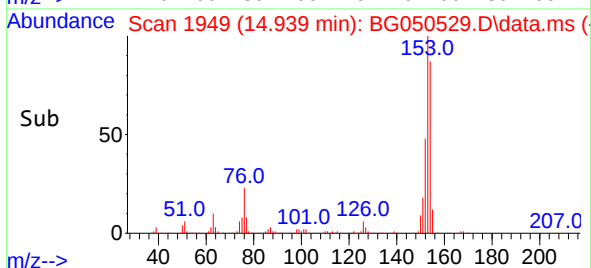
mohammad
10/11/2021 2:10:42 PM

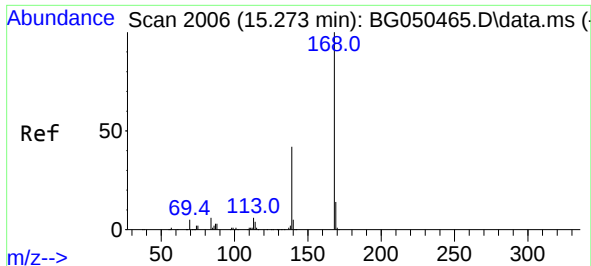


#52
Acenaphthene
Concen: 40.89 ng
RT: 14.939 min Scan# 1949
Delta R.T. -0.004 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



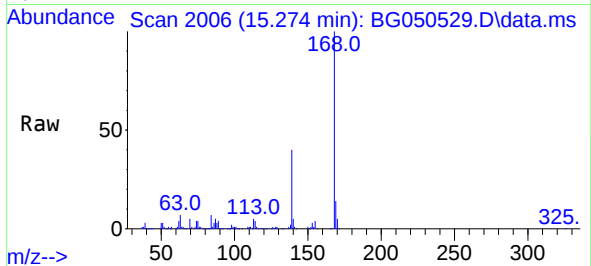
Tgt Ion:154 Resp: 406656
Ion Ratio Lower Upper
154 100
153 115.4 87.0 130.4
152 55.6 40.1 60.1





#55
Dibenzenofuran
Concen: 16.00 ng
RT: 15.274 min Scan# 2006
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

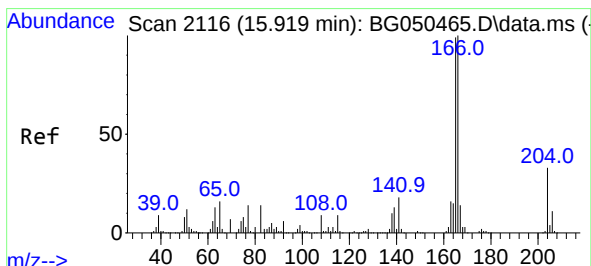
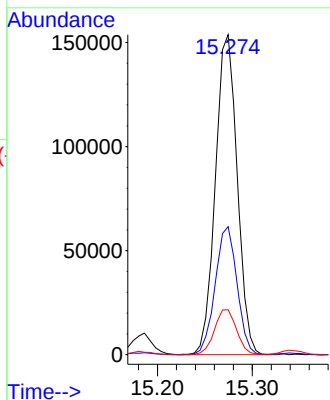
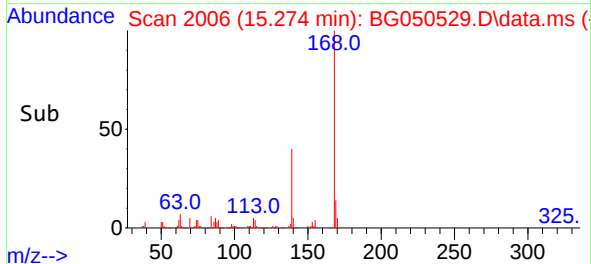
Instrument :
BNA_G
ClientSampleId :
OK-01-100621



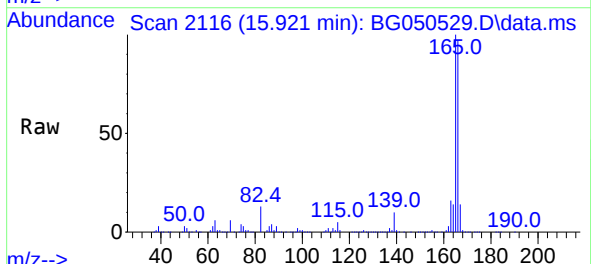
Tgt Ion:168 Resp: 246126
Ion Ratio Lower Upper
168 100
139 40.0 33.4 50.2
169 14.1 12.3 18.5

Manual Integrations
APPROVED

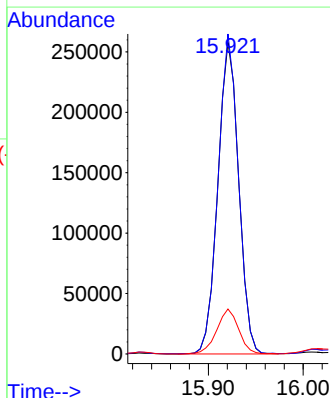
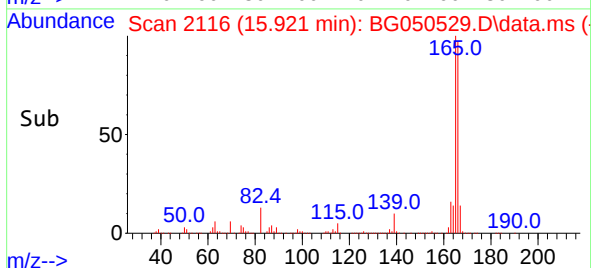
mohammad
10/11/2021 2:10:42 PM

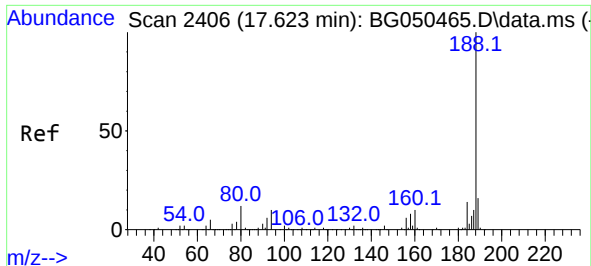


#58
Fluorene
Concen: 33.40 ng
RT: 15.921 min Scan# 2116
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



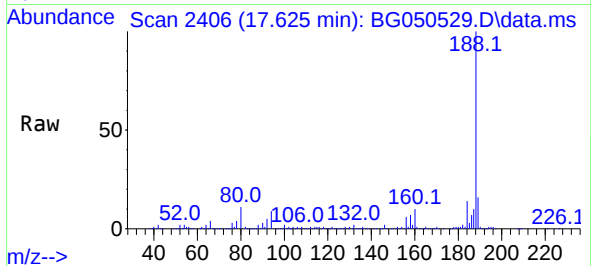
Tgt Ion:166 Resp: 394556
Ion Ratio Lower Upper
166 100
165 102.7 77.7 116.5
167 14.4 10.8 16.2





#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.625 min Scan# 2406
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

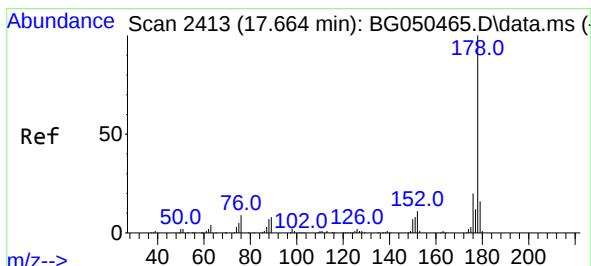
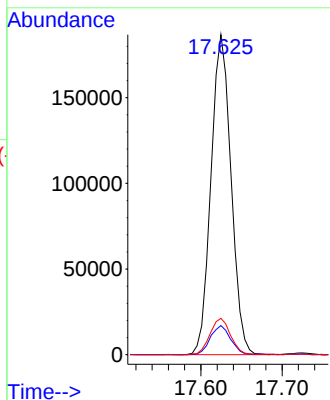
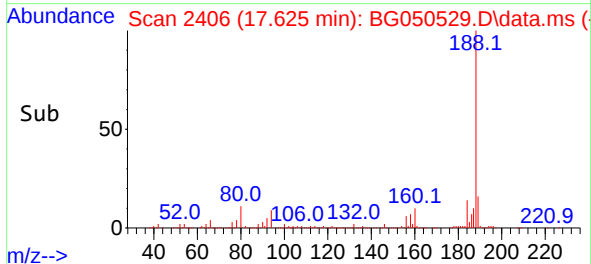
Instrument :
BNA_G
ClientSampleId :
OK-01-100621



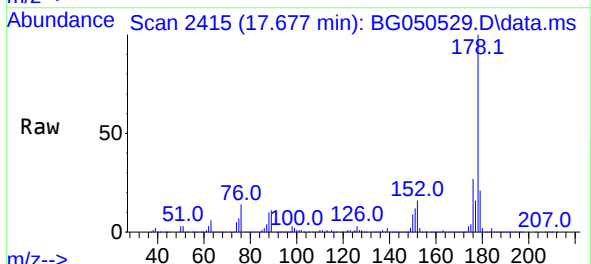
Tgt Ion:188 Resp: 320401
Ion Ratio Lower Upper
188 100
94 9.1 5.4 8.0#
80 11.4 3.7 5.5#

Manual Integrations
APPROVED

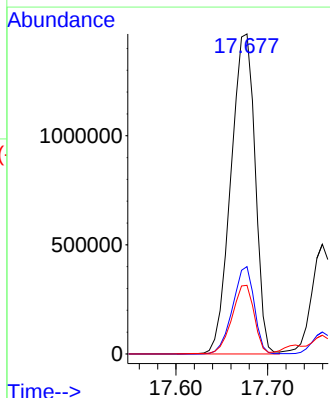
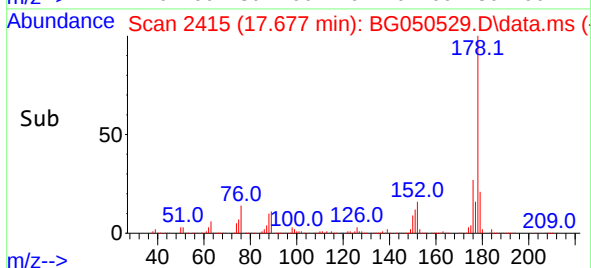
mohammad
10/11/2021 2:10:42 PM

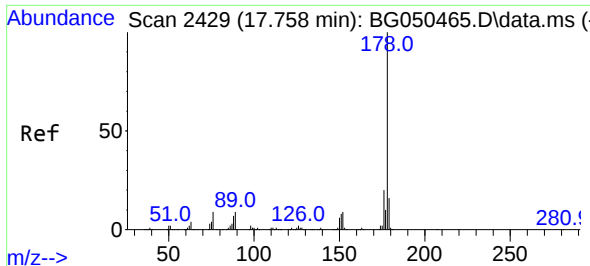


#71
Phenanthrene
Concen: 159.68 ng m
RT: 17.677 min Scan# 2415
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



Tgt Ion:178 Resp: 2696037
Ion Ratio Lower Upper
178 100
176 27.3 16.0 24.0#
179 21.5 14.2 21.4#





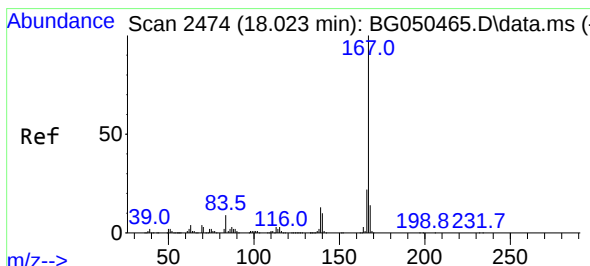
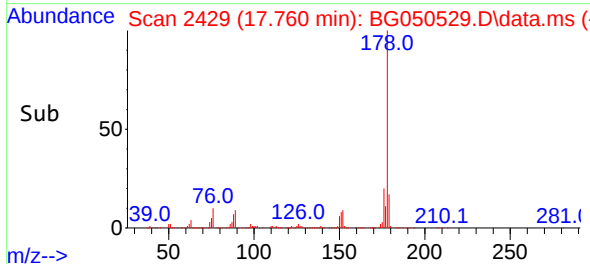
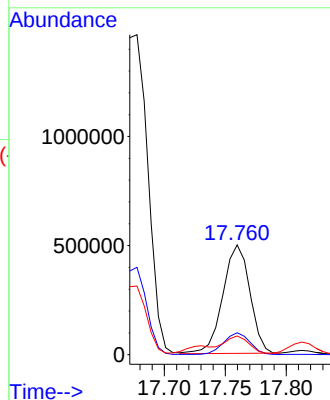
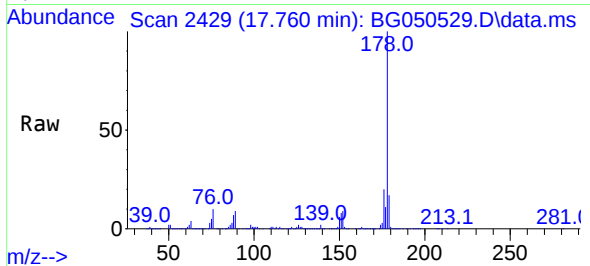
#72
 Anthracene
 Concen: 45.65 ng
 RT: 17.760 min Scan# 2429
 Delta R.T. 0.001 min
 Lab File: BG050529.D
 Acq: 9 Oct 2021 4:37

Tgt Ion:178 Resp: 765980
 Ion Ratio Lower Upper
 178 100
 176 20.1 14.6 21.8
 179 17.1 13.4 20.0

Instrument :
 BNA_G
 ClientSampleId :
 OK-01-100621

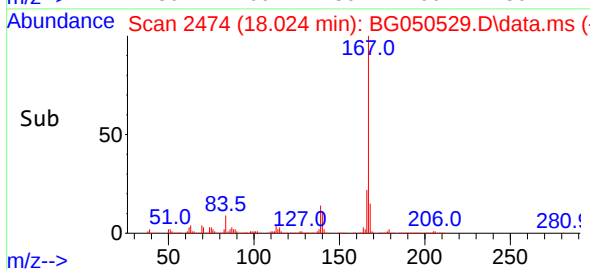
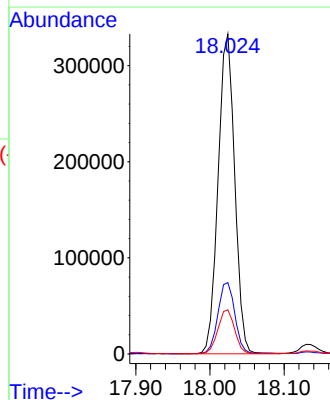
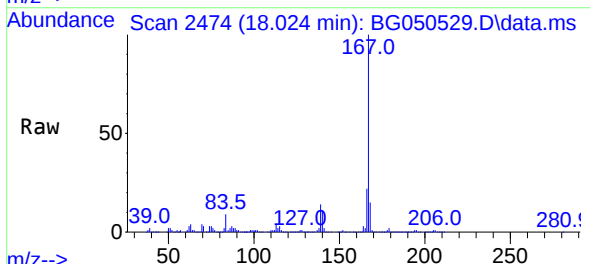
Manual Integrations
 APPROVED

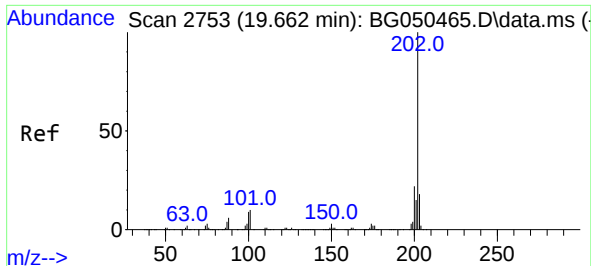
mohammad
 10/11/2021 2:10:42 PM



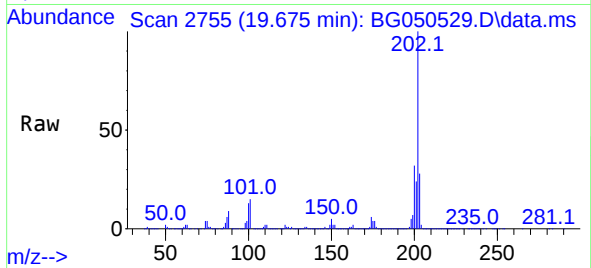
#73
 Carbazole
 Concen: 30.87 ng
 RT: 18.024 min Scan# 2474
 Delta R.T. 0.001 min
 Lab File: BG050529.D
 Acq: 9 Oct 2021 4:37

Tgt Ion:167 Resp: 516262
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.4 26.2
 139 13.8 10.7 16.1



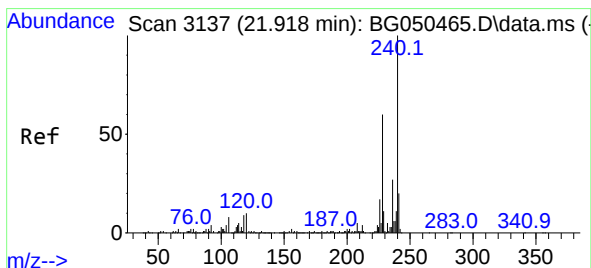
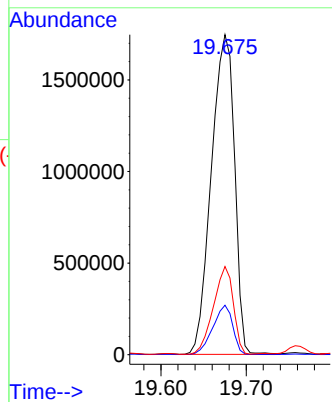
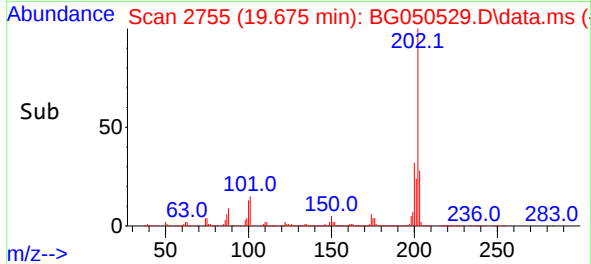


#75
Fluoranthene
Concen: 159.35 ng
RT: 19.675 min Scan# 2755
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

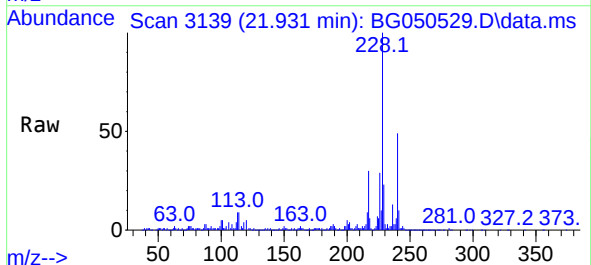


Tgt Ion:202 Resp: 3307302

Ion	Ratio	Lower	Upper
202	100		
101	15.5	0.0	24.7
203	27.6	0.0	38.5

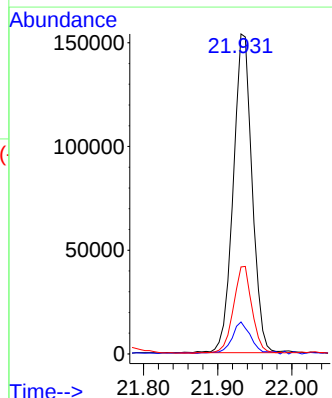
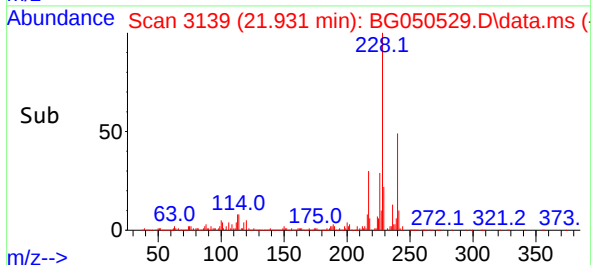


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.931 min Scan# 3139
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



Tgt Ion:240 Resp: 270531

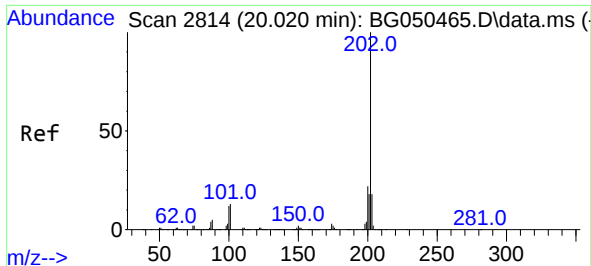
Ion	Ratio	Lower	Upper
240	100		
120	10.0	4.2	6.2#
236	27.2	21.8	32.6



Instrument :
BNA_G
ClientSampleId :
OK-01-100621

Manual Integrations
APPROVED

mohammad
10/11/2021 2:10:42 PM



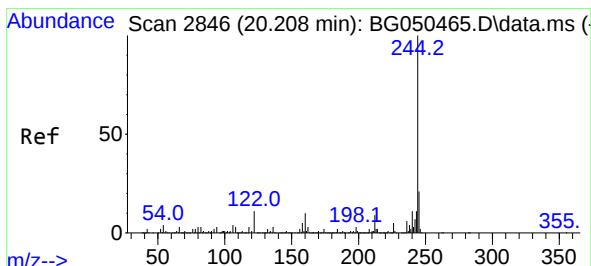
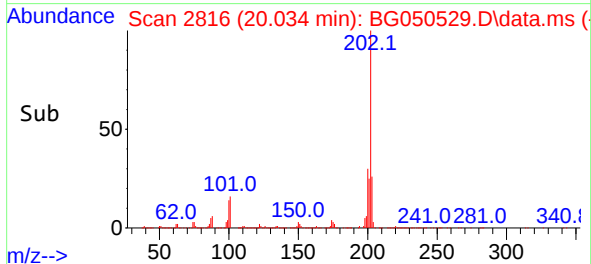
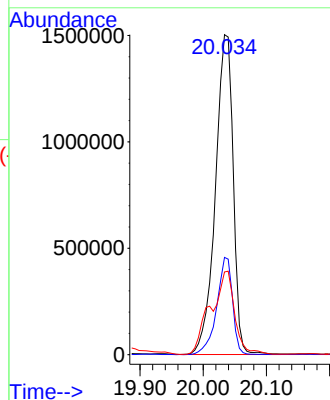
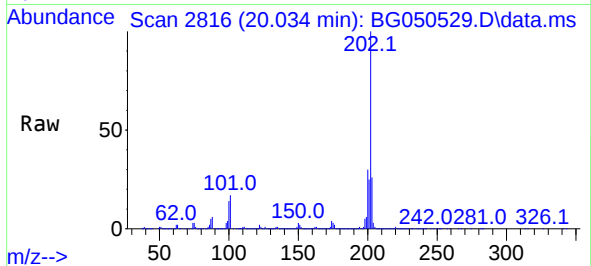
#78
Pyrene
Concen: 153.29 ng
RT: 20.034 min Scan# 2816
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:202 Resp: 2942253
Ion Ratio Lower Upper
202 100
200 30.4 15.8 23.8#
203 25.9 14.6 21.8#

Instrument :
BNA_G
ClientSampleId :
OK-01-100621

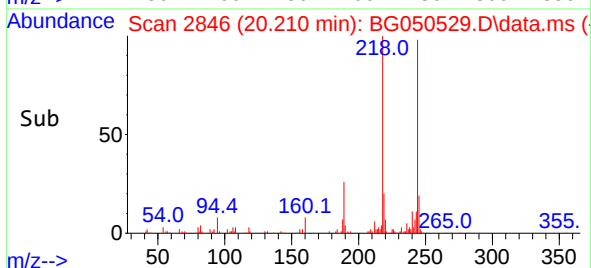
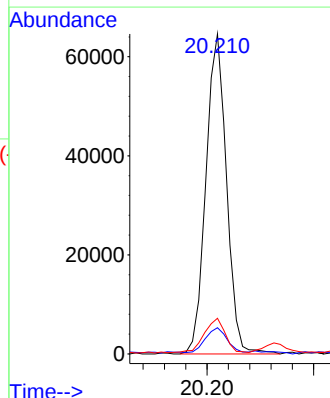
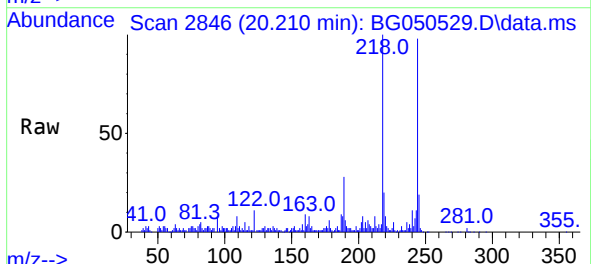
Manual Integrations
APPROVED

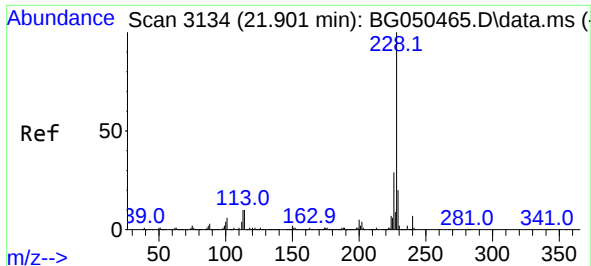
mohammad
10/11/2021 2:10:42 PM



#79
Terphenyl-d14
Concen: 6.26 ng
RT: 20.210 min Scan# 2846
Delta R.T. 0.001 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:244 Resp: 86941
Ion Ratio Lower Upper
244 100
212 8.2 6.9 10.3
122 11.2 5.0 7.6#





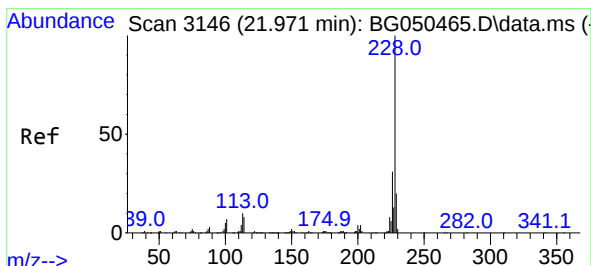
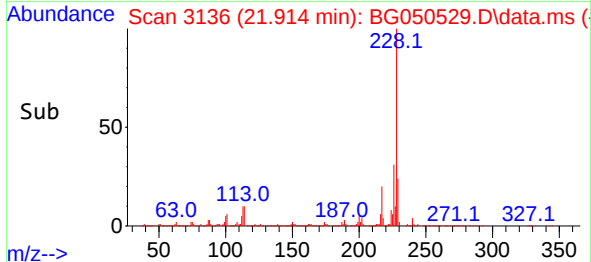
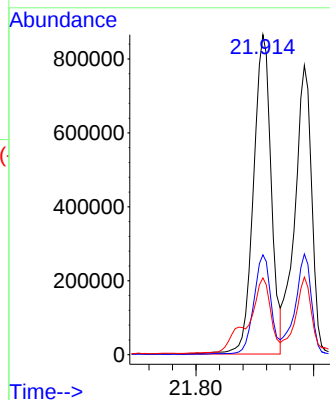
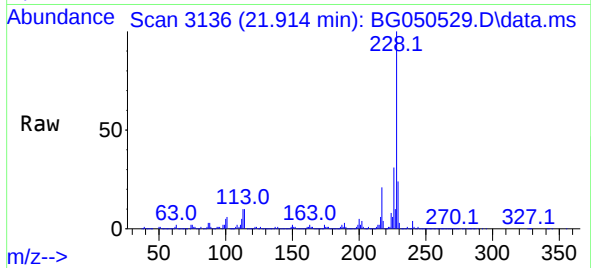
#81
Benzo(a)anthracene
Concen: 100.59 ng
RT: 21.914 min Scan# 3136
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:228 Resp: 1800610
Ion Ratio Lower Upper
228 100
226 31.2 22.7 34.1
229 24.0 16.0 24.0

Instrument :
BNA_G
ClientSampleId :
OK-01-100621

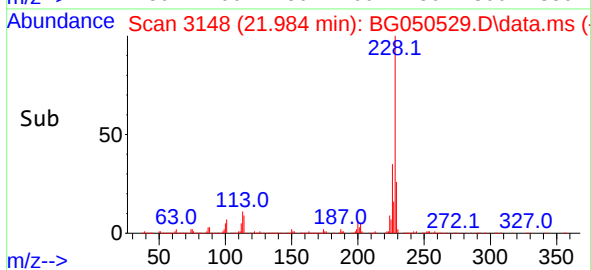
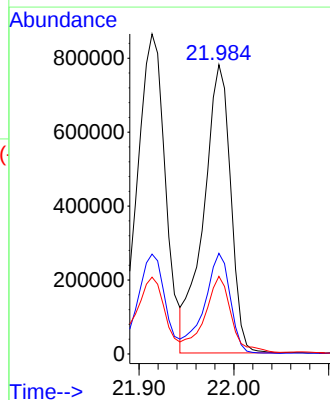
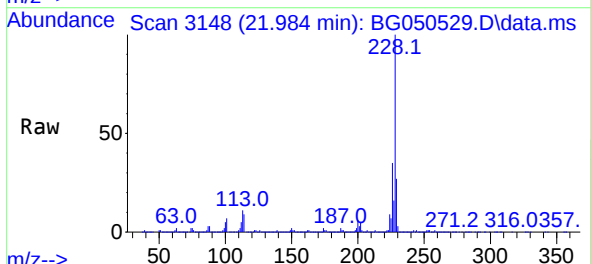
Manual Integrations
APPROVED

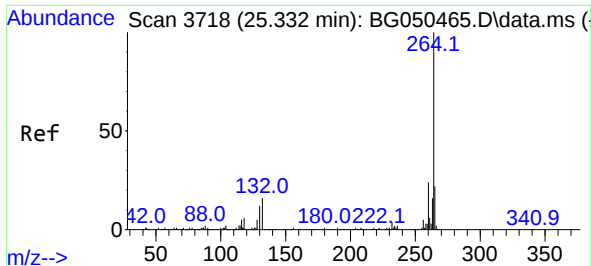
mohammad
10/11/2021 2:10:42 PM



#83
Chrysene
Concen: 92.00 ng
RT: 21.984 min Scan# 3148
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

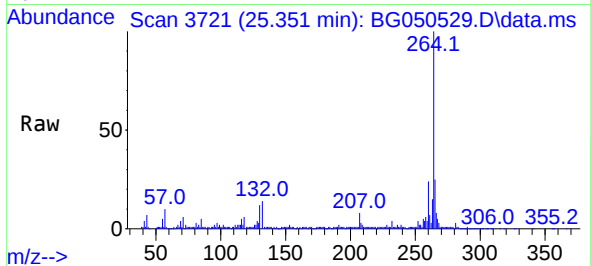
Tgt Ion:228 Resp: 1549157
Ion Ratio Lower Upper
228 100
226 34.8 23.1 34.7#
229 26.8 15.3 22.9#





#86
Perylene-d12
Concen: 20.00 ng
RT: 25.351 min Scan# 3721
Delta R.T. 0.019 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

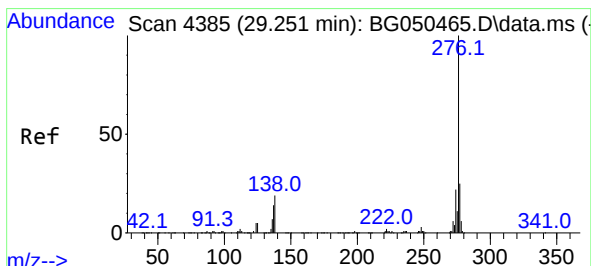
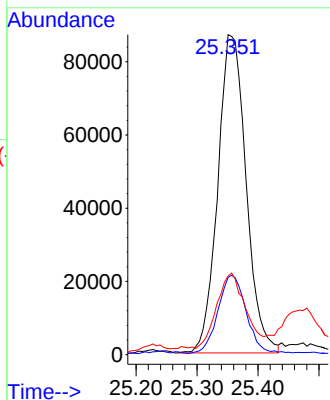
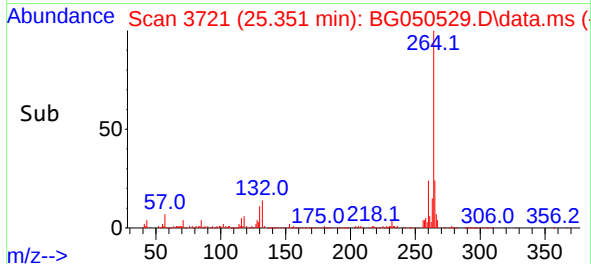
Instrument :
BNA_G
ClientSampled :
OK-01-100621



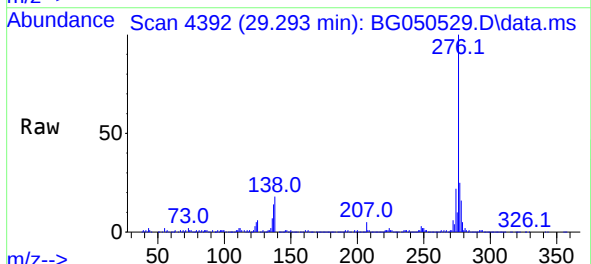
Tgt Ion:264 Resp: 280813
Ion Ratio Lower Upper
264 100
260 24.1 19.4 29.2
265 24.6 16.9 25.3

Manual Integrations
APPROVED

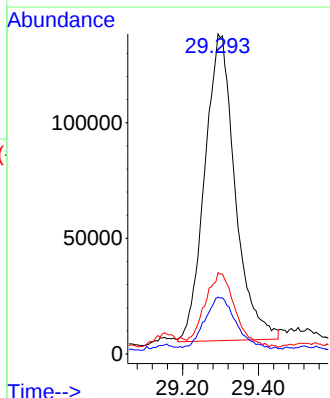
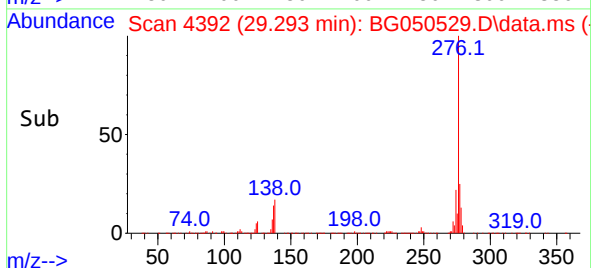
mohammad
10/11/2021 2:10:42 PM

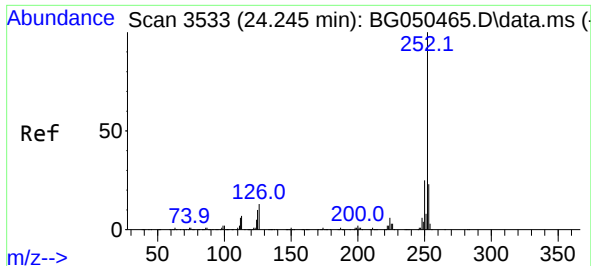


#87
Indeno(1,2,3-cd)pyrene
Concen: 37.77 ng
RT: 29.293 min Scan# 4392
Delta R.T. 0.043 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37



Tgt Ion:276 Resp: 738812
Ion Ratio Lower Upper
276 100
138 17.5 5.1 7.7#
277 23.8 19.8 29.6





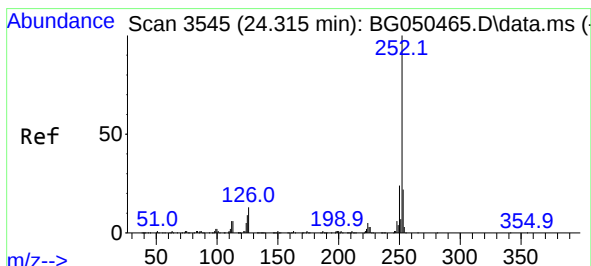
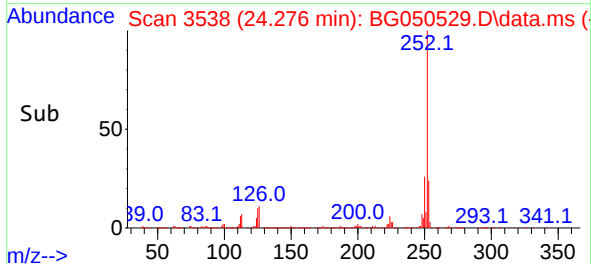
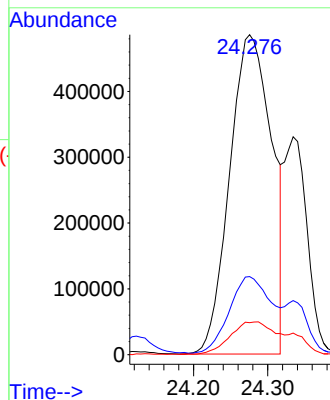
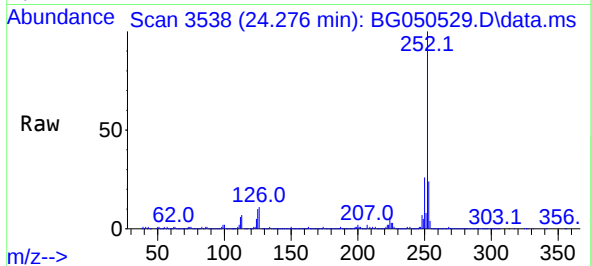
#88
Benzo(b)fluoranthene
Concen: 111.23 ng
RT: 24.276 min Scan# 3538
Delta R.T. 0.031 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:252 Resp: 1912923
Ion Ratio Lower Upper
252 100
253 24.4 16.2 24.4#
125 10.0 3.0 4.4#

Instrument :
BNA_G
ClientSampled :
OK-01-100621

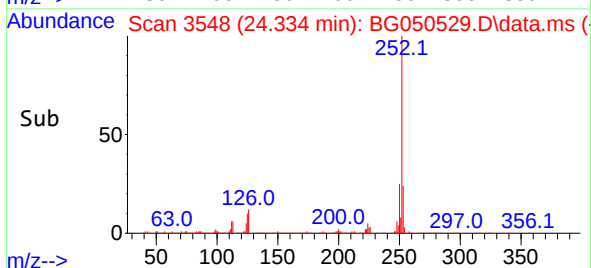
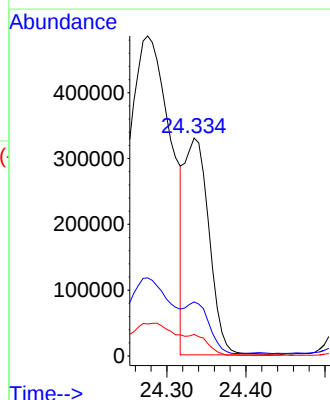
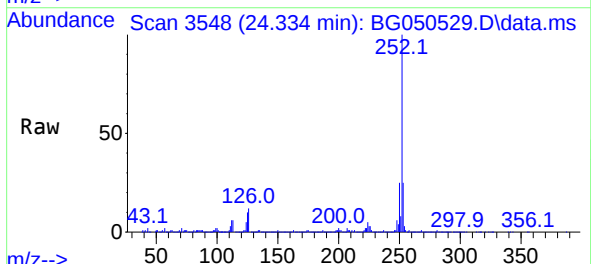
Manual Integrations
APPROVED

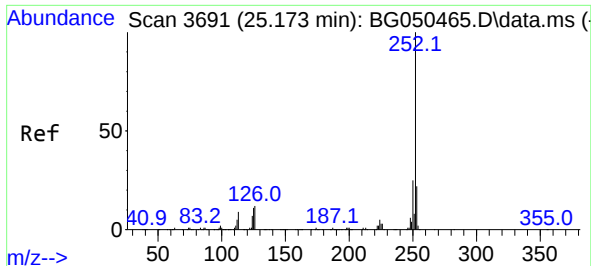
mohammad
10/11/2021 2:10:42 PM



#89
Benzo(k)fluoranthene
Concen: 41.94 ng m
RT: 24.334 min Scan# 3548
Delta R.T. 0.019 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:252 Resp: 709548
Ion Ratio Lower Upper
252 100
253 24.8 18.0 27.0
125 9.9 3.1 4.7#





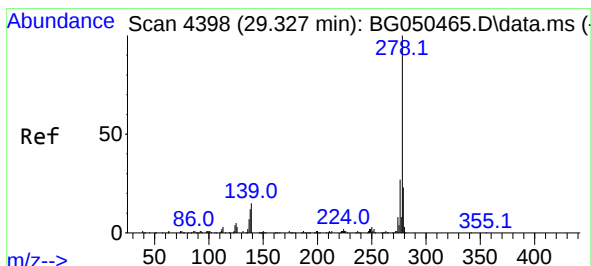
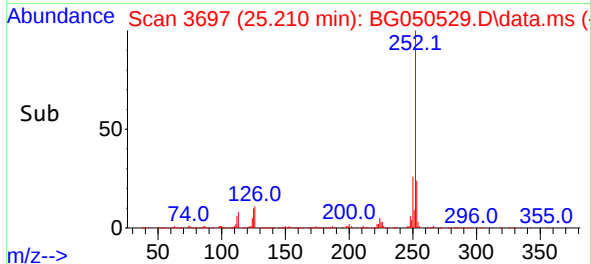
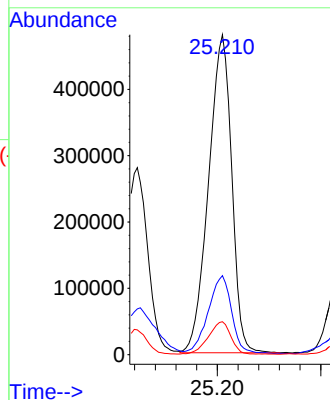
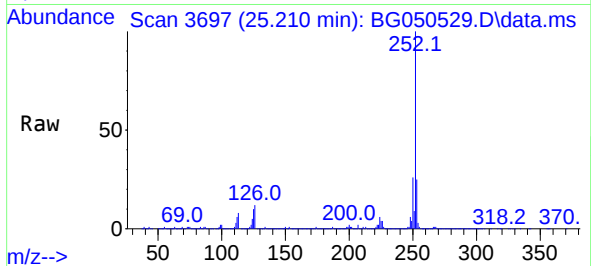
#90
Benzo(a)pyrene
Concen: 101.65 ng
RT: 25.210 min Scan# 3697
Delta R.T. 0.037 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Tgt Ion:252 Resp: 1486330
Ion Ratio Lower Upper
252 100
253 24.7 16.6 25.0
125 10.3 3.5 5.3#

Instrument :
BNA_G
ClientSampleId :
OK-01-100621

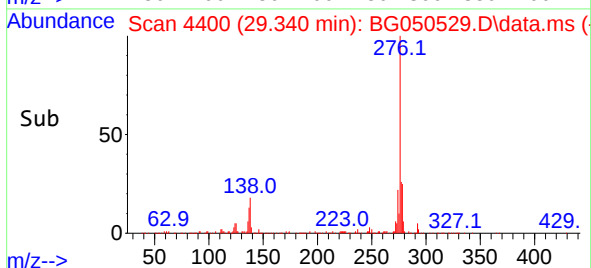
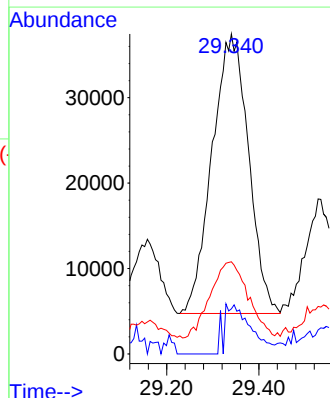
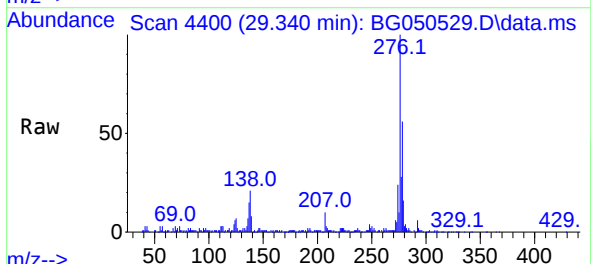
Manual Integrations
APPROVED

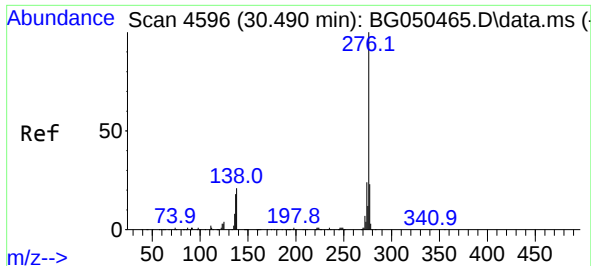
mohammad
10/11/2021 2:10:42 PM



#91
Dibenzo(a,h)anthracene
Concen: 11.08 ng
RT: 29.340 min Scan# 4400
Delta R.T. 0.013 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

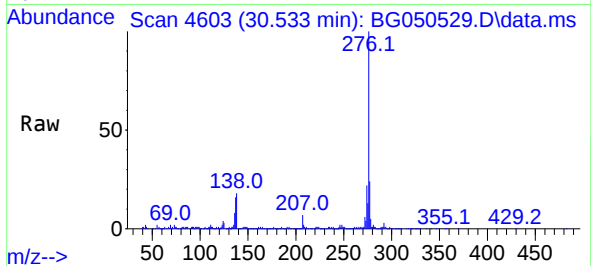
Tgt Ion:278 Resp: 179321
Ion Ratio Lower Upper
278 100
139 14.1 4.6 6.8#
279 28.8 17.9 26.9#





#92
Benzo(g,h,i)perylene
Concen: 45.51 ng
RT: 30.533 min Scan# 4603
Delta R.T. 0.043 min
Lab File: BG050529.D
Acq: 9 Oct 2021 4:37

Instrument :
BNA_G
ClientSampleId :
OK-01-100621



Tgt Ion: 276 Resp: 721090
Ion Ratio Lower Upper
276 100
277 24.0 18.4 27.6
138 18.3 7.0 10.6#

Manual Integrations
APPROVED

mohammad
10/11/2021 2:10:42 PM

