

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
 Data File : BG064929.D
 Acq On : 10 Dec 2025 20:35
 Operator : RC/JU
 Sample : Q3812-01DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-120825DL

Quant Time: Dec 10 23:37:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

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

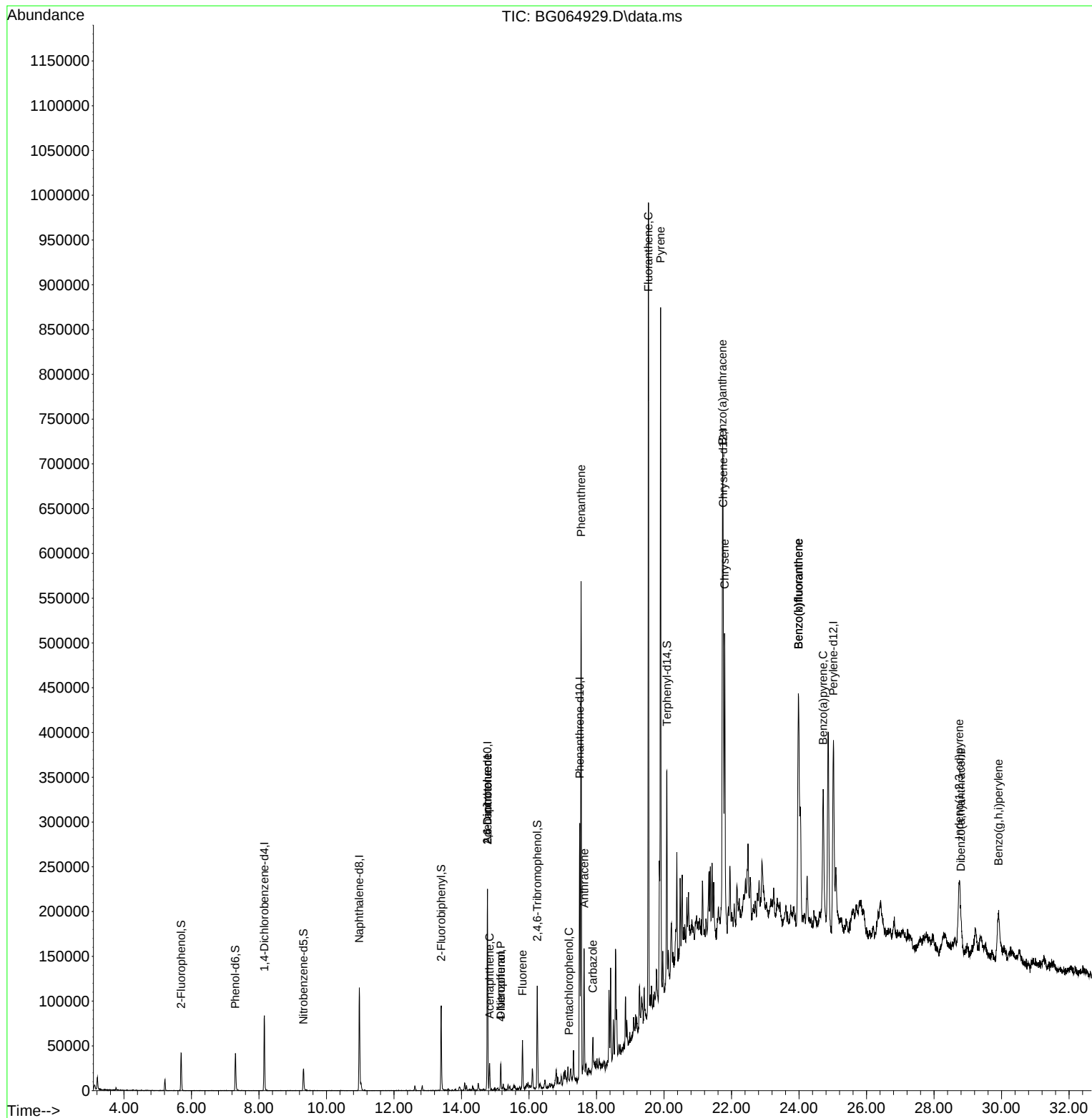
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.158	152	26007	20.000	ng	0.00
21) Naphthalene-d8	10.973	136	102193	20.000	ng	#-0.01
39) Acenaphthene-d10	14.768	164	87995	20.000	ng	0.00
64) Phenanthrene-d10	17.500	188	197589	20.000	ng	# 0.00
76) Chrysene-d12	21.754	240	237301	20.000	ng	# 0.00
86) Perylene-d12	25.021	264	276334	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.697	112	18801	12.624	ng	0.00
7) Phenol-d6	7.301	99	23597	11.912	ng	0.00
23) Nitrobenzene-d5	9.316	82	16130	7.804	ng	-0.01
42) 2,4,6-Tribromophenol	16.243	330	26569	15.482	ng	0.00
45) 2-Fluorobiphenyl	13.399	172	57889	9.179	ng	0.00
79) Terphenyl-d14	20.086	244	122771	10.177	ng	0.00
Target Compounds						Qvalue
51) 2,6-Dinitrotoluene	14.768	165	10863	8.122	ng	# 21
52) Acenaphthene	14.833	154	11847	2.323	ng	92
55) Dibenzofuran	15.162	168	19710	2.338	ng	# 97
56) 4-Nitrophenol	15.168	139	6716	6.412	ng	# 1
57) 2,4-Dinitrotoluene	14.768	165	10863	5.417	ng	# 24
58) Fluorene	15.808	166	26614	4.024	ng	100
70) Pentachlorophenol	17.183	266	76	6.181	ng	# 16
71) Phenanthrene	17.541	178	371227	34.339	ng	99
72) Anthracene	17.636	178	105581	9.578	ng	99
73) Carbazole	17.894	167	27377	2.889	ng	97
75) Fluoranthene	19.539	202	617185	41.749	ng	98
78) Pyrene	19.898	202	527012	39.626	ng	99
81) Benzo(a)anthracene	21.731	228	331046	20.517	ng	97
83) Chrysene	21.795	228	274403	18.038	ng	97
87) Indeno(1,2,3-cd)pyrene	28.746	276	172835	9.104	ng	# 95
88) Benzo(b)fluoranthene	23.981	252	406029	23.089	ng	# 99
89) Benzo(k)fluoranthene	23.981	252	406652	23.017	ng	# 98
90) Benzo(a)pyrene	24.715	252	182290	11.175	ng	93
91) Dibenzo(a,h)anthracene	28.793	278	42352	2.723	ng	# 80
92) Benzo(g,h,i)perylene	29.915	276	167155	11.167	ng	# 97

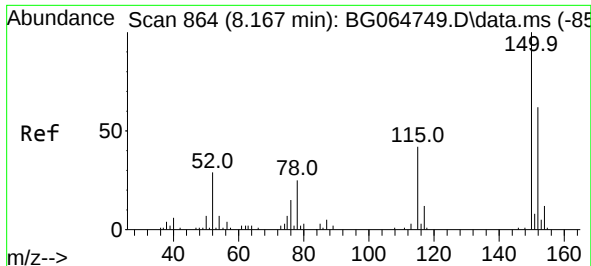
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 23:37:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 12 17:10:56 2025
Response via : Initial Calibration

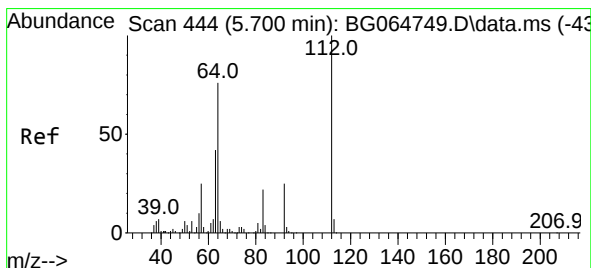
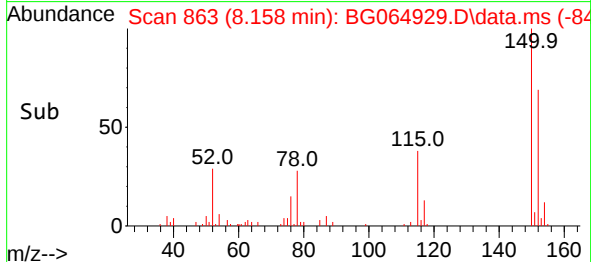
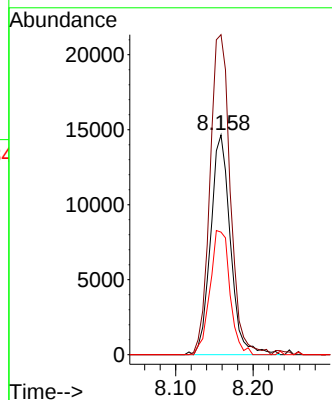
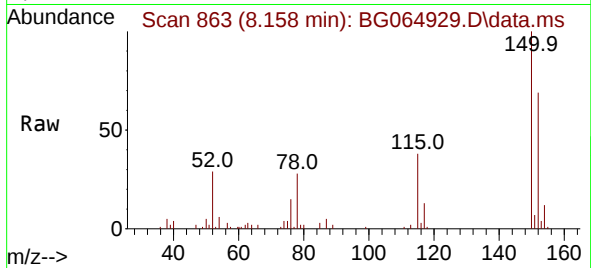




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.158 min Scan# 863
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

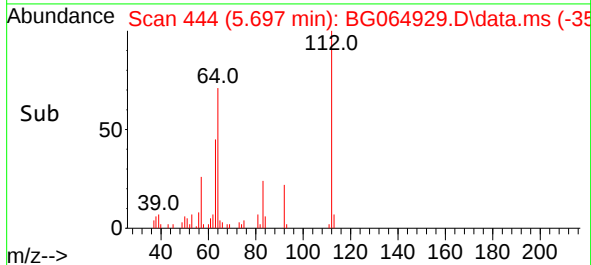
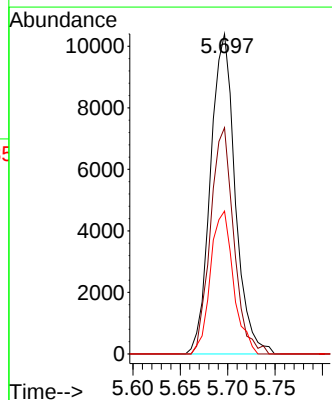
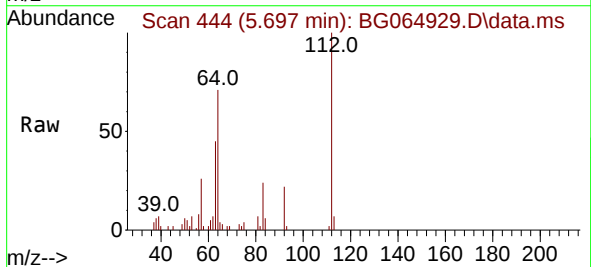
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

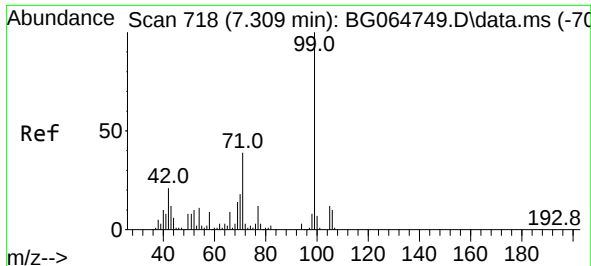
Tgt Ion:152 Resp: 26007
Ion Ratio Lower Upper
152 100
150 145.6 129.2 193.8
115 55.7 53.7 80.5



#5
2-Fluorophenol
Concen: 12.624 ng
RT: 5.697 min Scan# 444
Delta R.T. -0.003 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:112 Resp: 18801
Ion Ratio Lower Upper
112 100
64 70.7 61.0 91.4
63 44.7 33.3 49.9

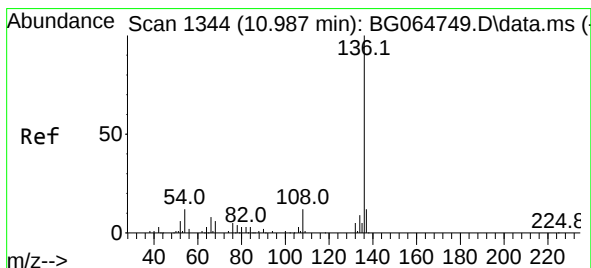
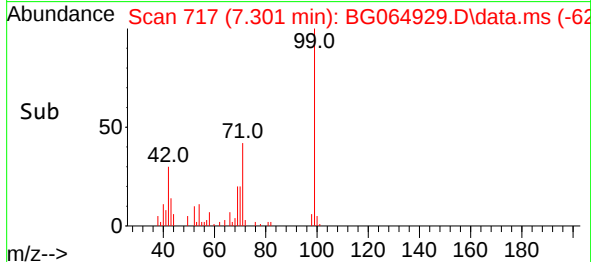
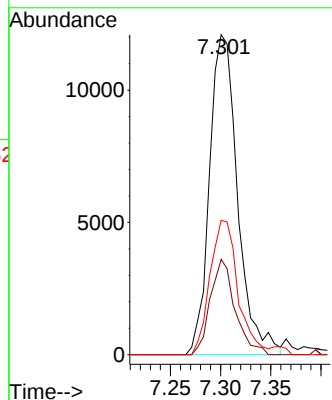
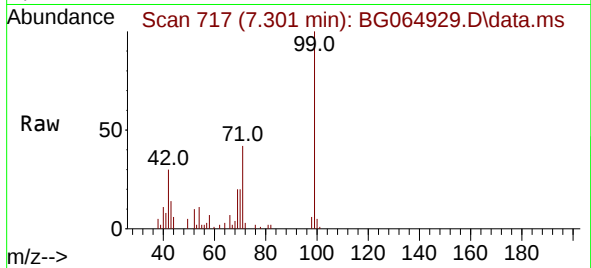




#7
Phenol-d6
Concen: 11.912 ng
RT: 7.301 min Scan# 71
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

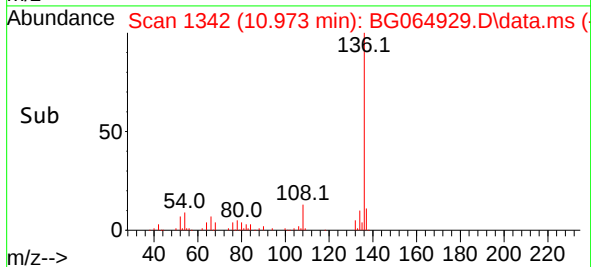
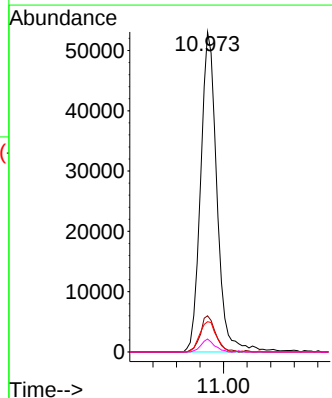
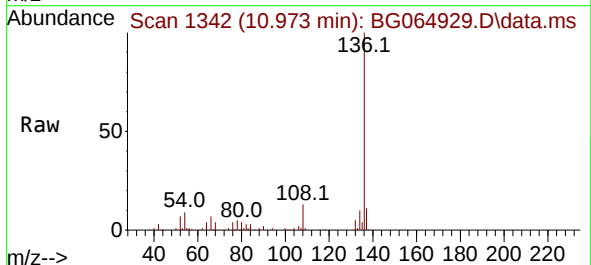
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

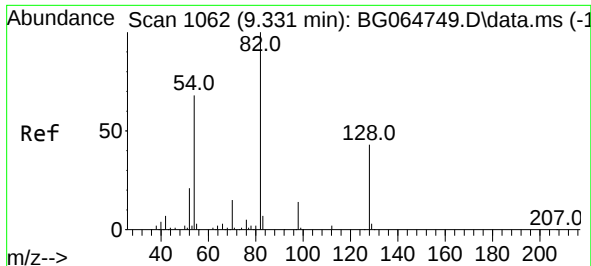
Tgt Ion: 99 Resp: 23597
Ion Ratio Lower Upper
99 100
42 29.8 16.8 25.2#
71 42.0 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.973 min Scan# 1342
Delta R.T. -0.014 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:136 Resp: 102193
Ion Ratio Lower Upper
136 100
137 11.3 9.3 13.9
54 9.5 9.3 13.9
68 4.1 5.0 7.6#

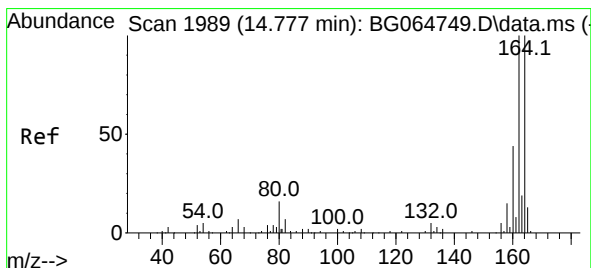
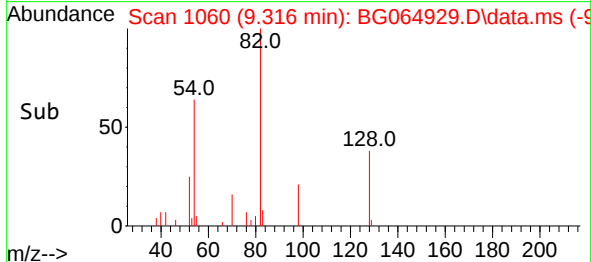
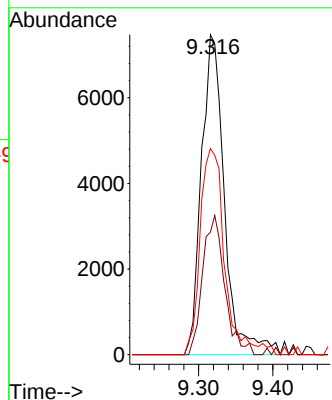
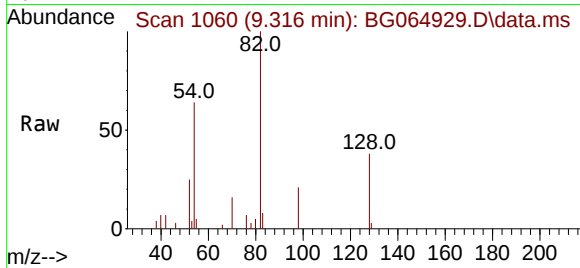




#23
Nitrobenzene-d5
Concen: 7.804 ng
RT: 9.316 min Scan# 1060
Delta R.T. -0.015 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

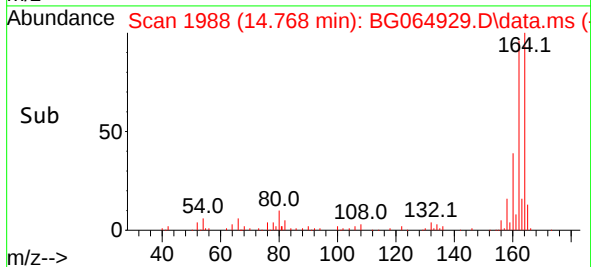
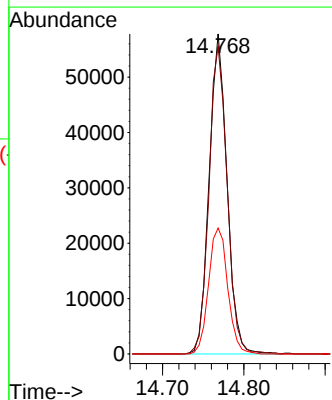
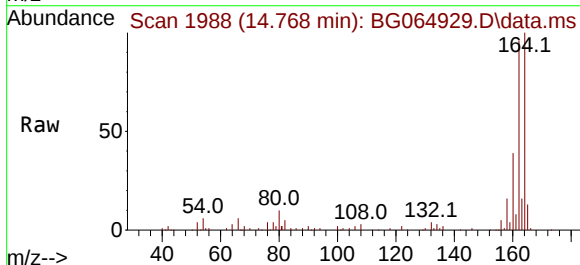
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

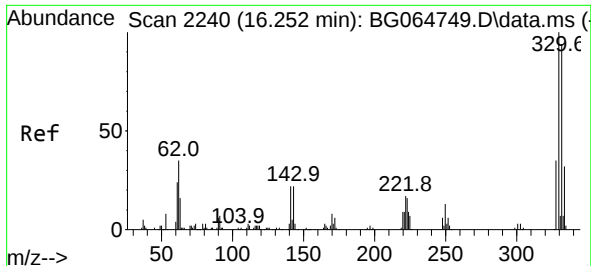
Tgt Ion:	82	Resp:	16130
Ion	Ratio	Lower	Upper
82	100		
128	38.3	34.1	51.1
54	64.4	54.3	81.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.768 min Scan# 1988
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

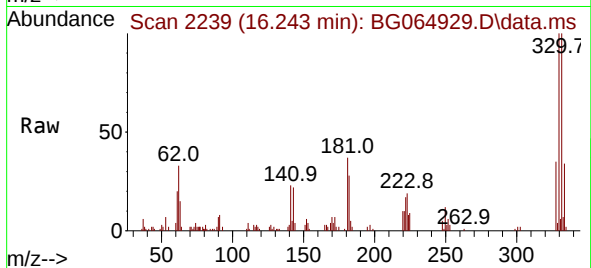
Tgt Ion:	164	Resp:	87995
Ion	Ratio	Lower	Upper
164	100		
162	96.1	79.8	119.6
160	39.4	34.9	52.3



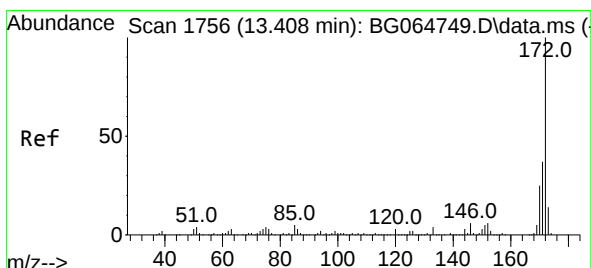
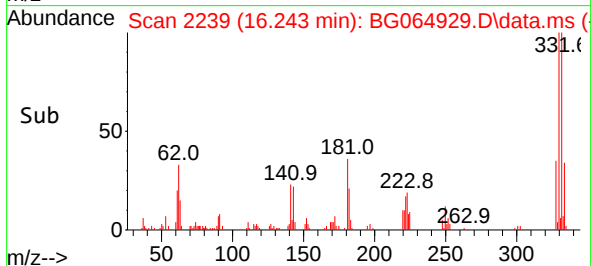
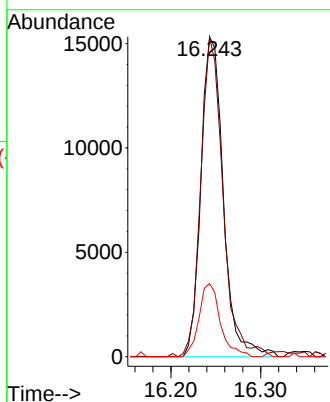


#42
2,4,6-Tribromophenol
Concen: 15.482 ng
RT: 16.243 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

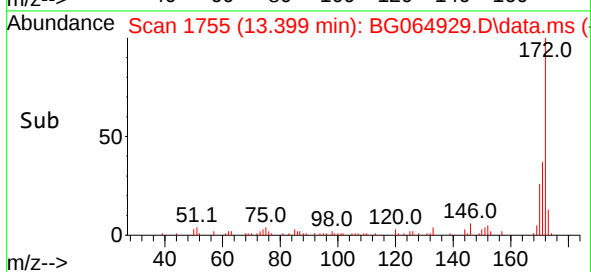
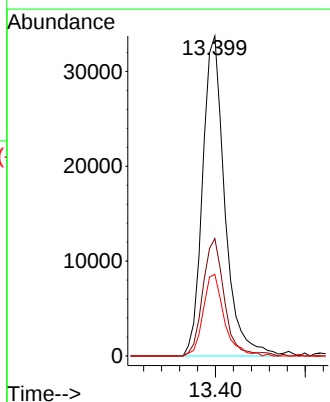
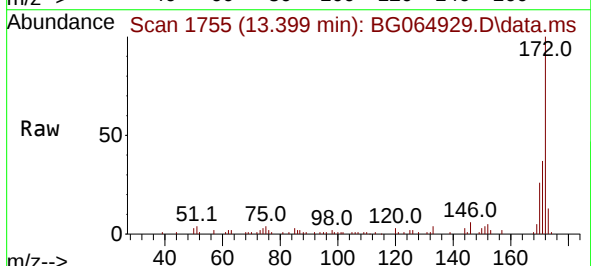


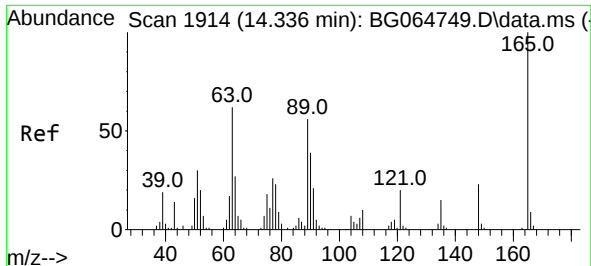
Tgt Ion:330 Resp: 26569
Ion Ratio Lower Upper
330 100
332 98.5 77.0 115.6
141 21.8 18.2 27.2



#45
2-Fluorobiphenyl
Concen: 9.179 ng
RT: 13.399 min Scan# 1755
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:172 Resp: 57889
Ion Ratio Lower Upper
172 100
171 36.7 29.9 44.9
170 25.5 19.8 29.6

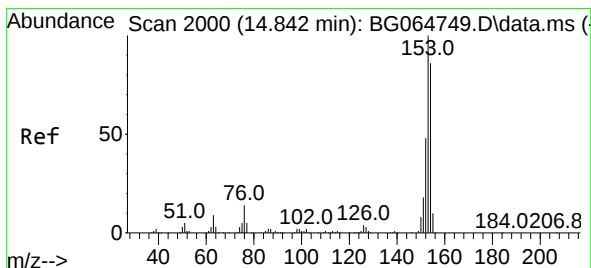
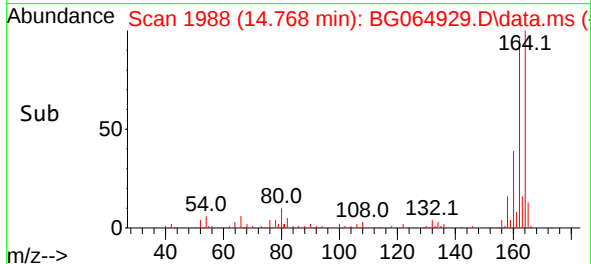
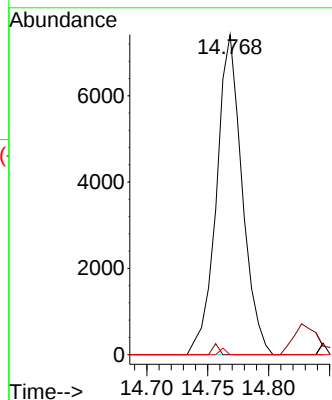
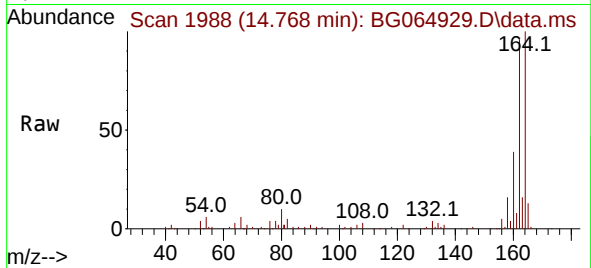




#51
2,6-Dinitrotoluene
Concen: 8.122 ng
RT: 14.768 min Scan# 1914
Delta R.T. 0.432 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

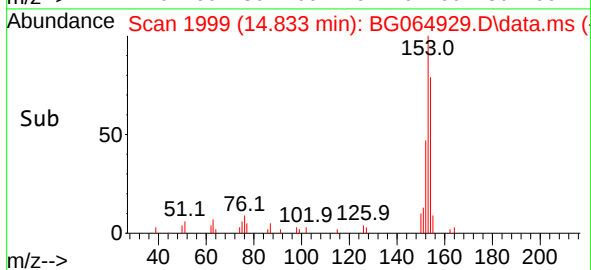
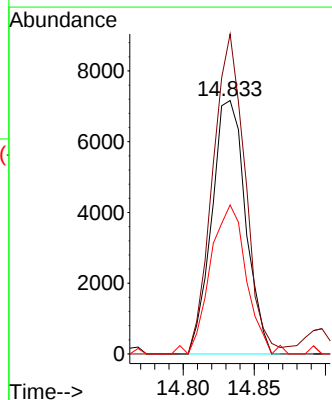
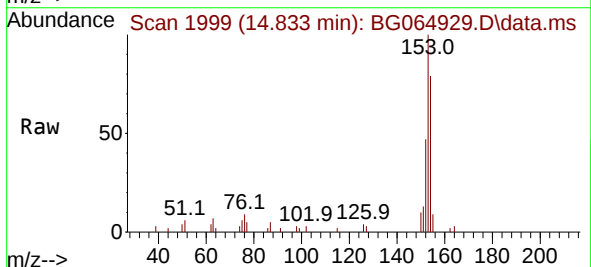
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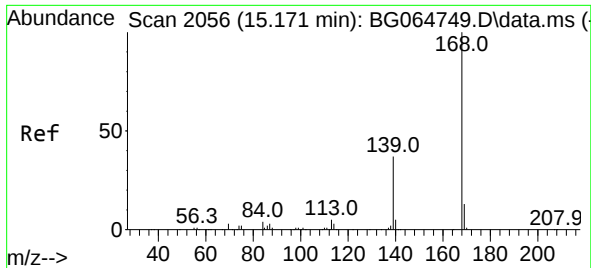
Tgt Ion:165 Resp: 10863
Ion Ratio Lower Upper
165 100
63 0.0 49.8 74.8#
89 0.0 45.0 67.4#



#52
Acenaphthene
Concen: 2.323 ng
RT: 14.833 min Scan# 1999
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:154 Resp: 11847
Ion Ratio Lower Upper
154 100
153 126.2 93.0 139.4
152 58.7 44.4 66.6

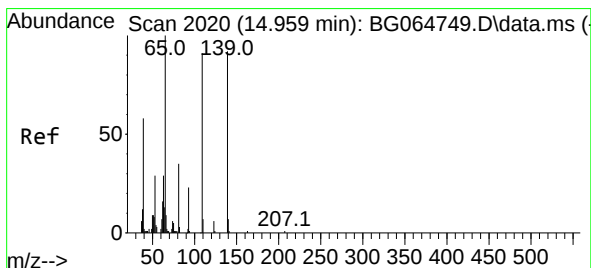
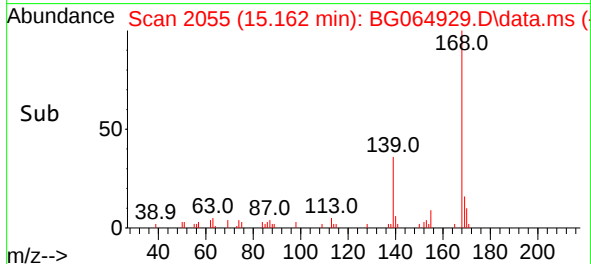
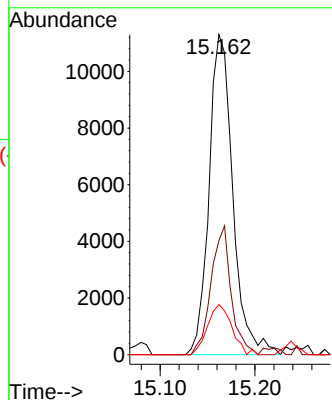
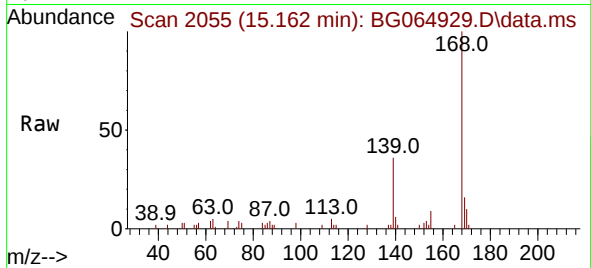




#55
Dibenzofuran
Concen: 2.338 ng
RT: 15.162 min Scan# 2056
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

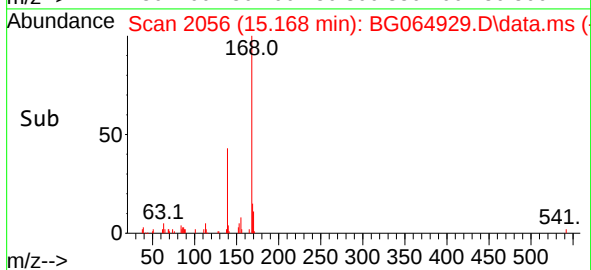
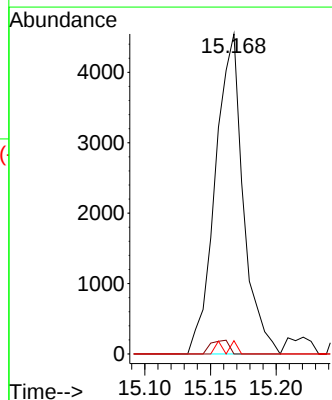
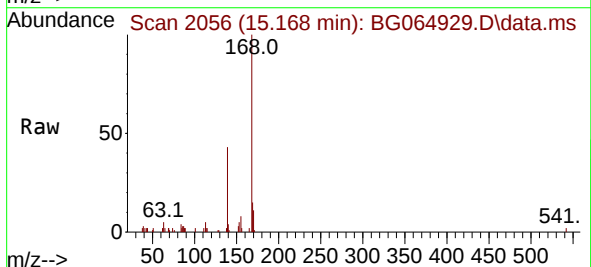
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OR-02-120825DL

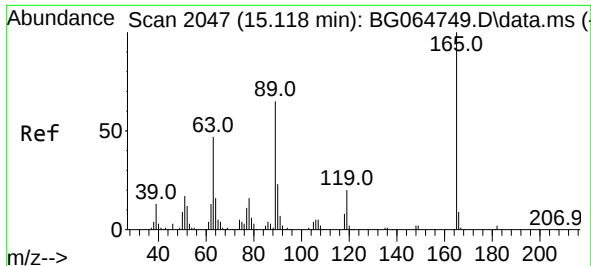
Tgt Ion:168 Resp: 19710
Ion Ratio Lower Upper
168 100
139 35.6 29.5 44.3
169 15.7 10.4 15.6#



#56
4-Nitrophenol
Concen: 6.412 ng
RT: 15.168 min Scan# 2056
Delta R.T. 0.209 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:139 Resp: 6716
Ion Ratio Lower Upper
139 100
109 0.0 79.7 119.7#
65 4.2 89.9 129.9#





#57

2,4-Dinitrotoluene

Concen: 5.417 ng

RT: 14.768 min Scan# 1988

Delta R.T. -0.350 min

Lab File: BG064929.D

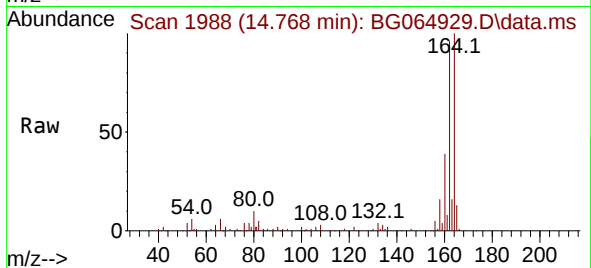
Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL



Tgt Ion:165 Resp: 10863

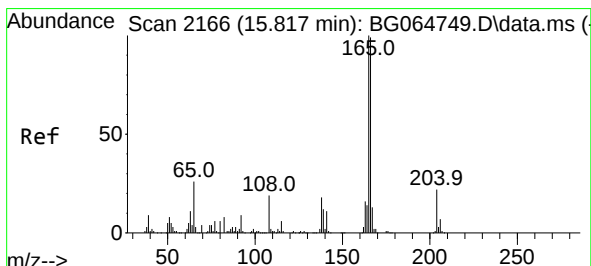
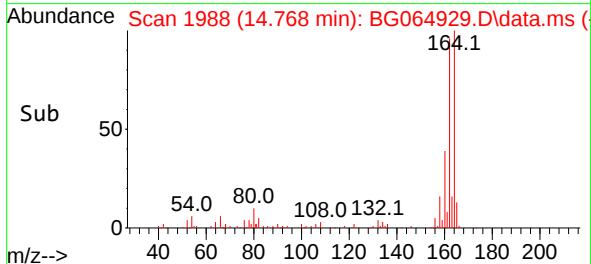
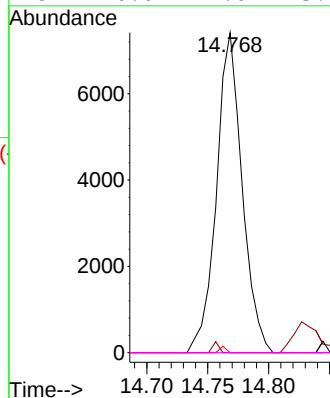
Ion Ratio Lower Upper

165 100

63 0.0 37.8 56.6#

89 0.0 51.6 77.4#

182 0.0 2.0 3.0#



#58

Fluorene

Concen: 4.024 ng

RT: 15.808 min Scan# 2165

Delta R.T. -0.009 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

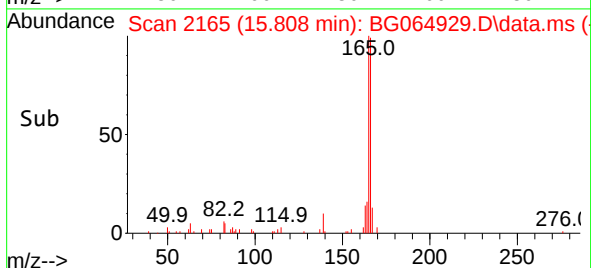
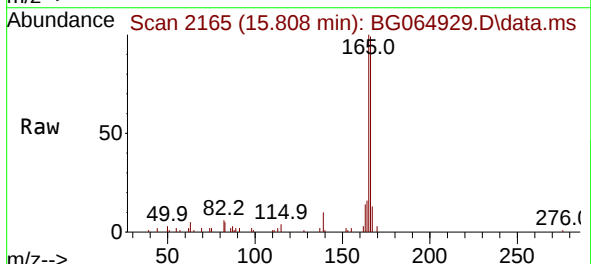
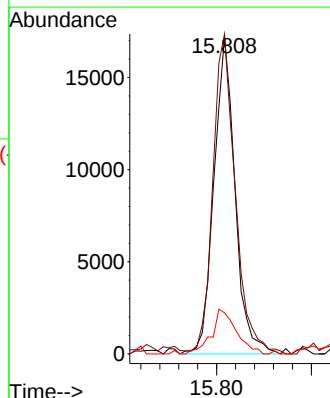
Tgt Ion:166 Resp: 26614

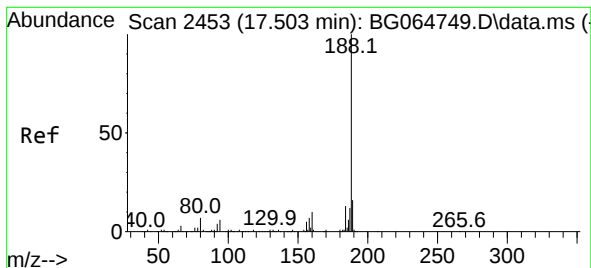
Ion Ratio Lower Upper

166 100

165 100.9 80.5 120.7

167 13.0 10.3 15.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.500 min Scan# 24

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

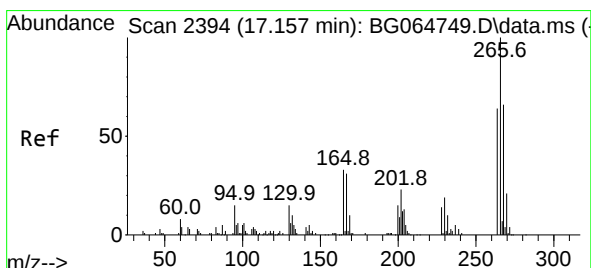
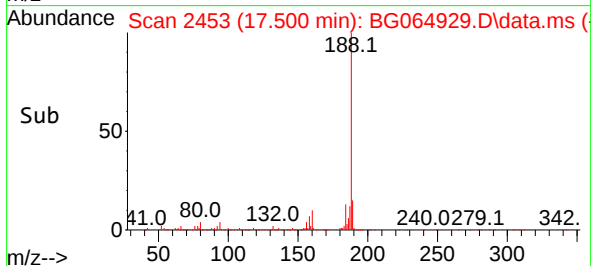
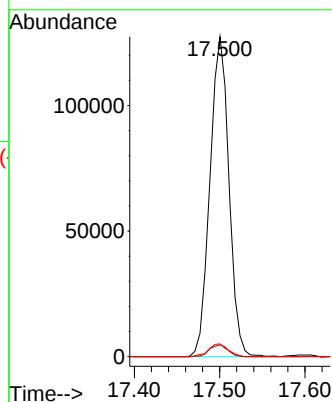
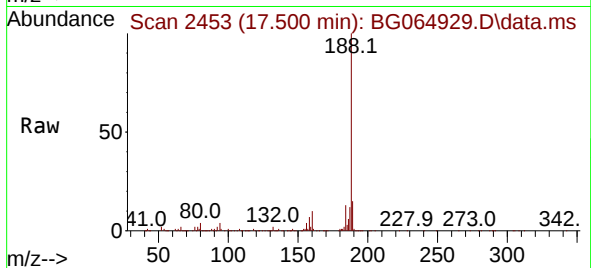
Tgt Ion:188 Resp: 197589

Ion Ratio Lower Upper

188 100

94 3.7 4.7 7.1#

80 4.0 5.4 8.2#



#70

Pentachlorophenol

Concen: 6.181 ng

RT: 17.183 min Scan# 2399

Delta R.T. 0.026 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

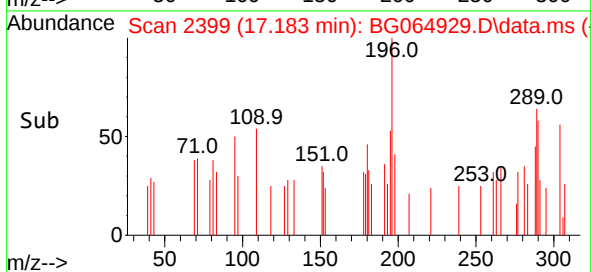
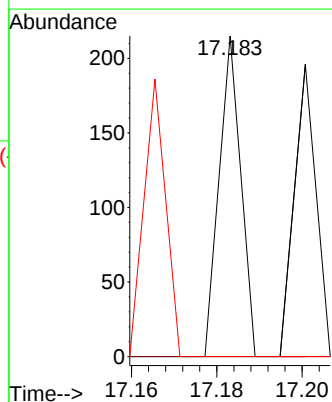
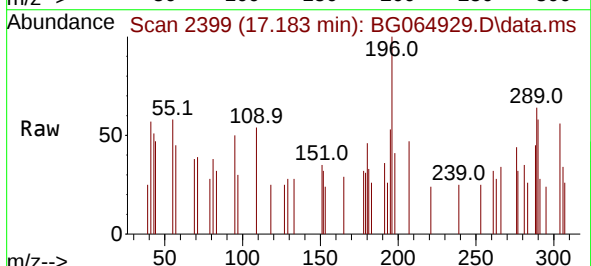
Tgt Ion:266 Resp: 76

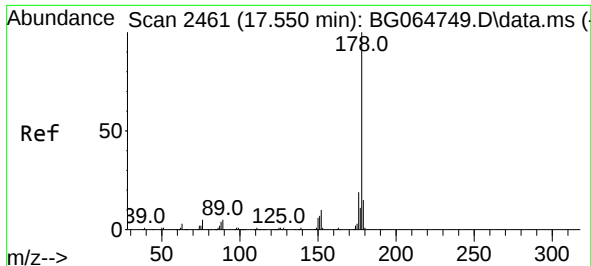
Ion Ratio Lower Upper

266 100

268 0.0 56.1 84.1#

264 0.0 51.2 76.8#

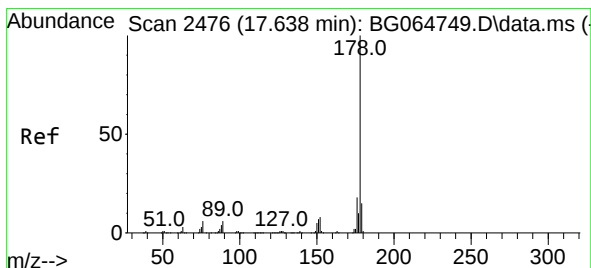
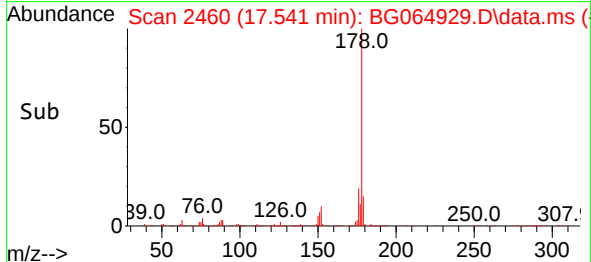
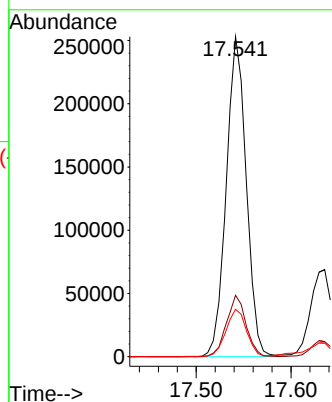
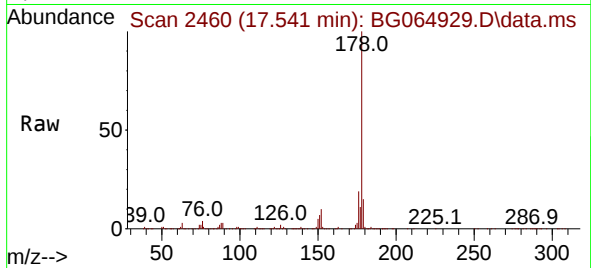




#71
Phenanthrene
Concen: 34.339 ng
RT: 17.541 min Scan# 2461
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

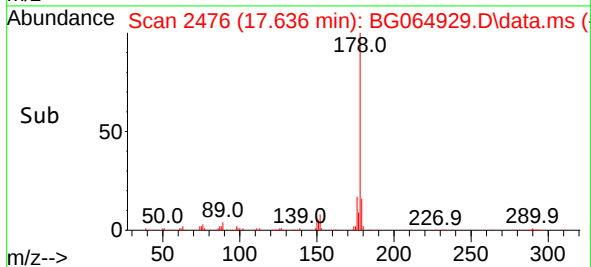
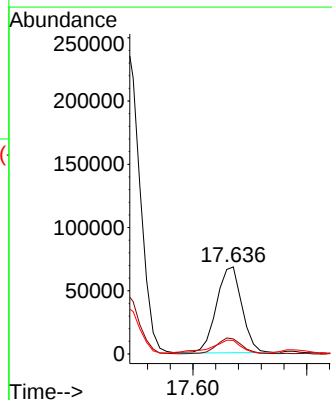
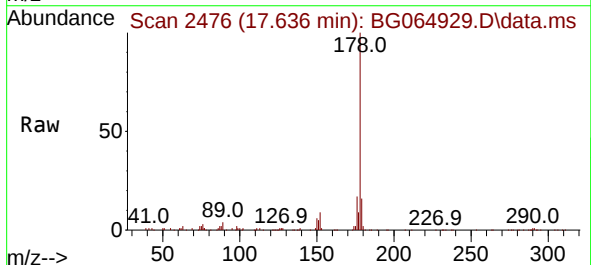
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

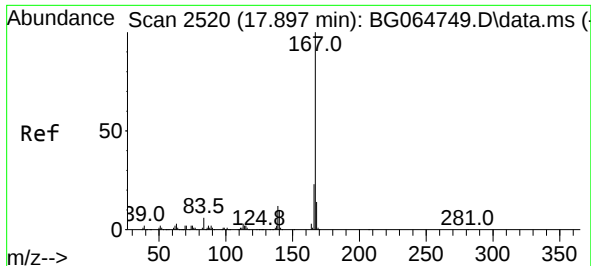
Tgt Ion:178 Resp: 371227
Ion Ratio Lower Upper
178 100
176 19.2 14.8 22.2
179 14.8 12.2 18.4



#72
Anthracene
Concen: 9.578 ng
RT: 17.636 min Scan# 2476
Delta R.T. -0.003 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:178 Resp: 105581
Ion Ratio Lower Upper
178 100
176 17.3 14.5 21.7
179 15.7 12.2 18.4

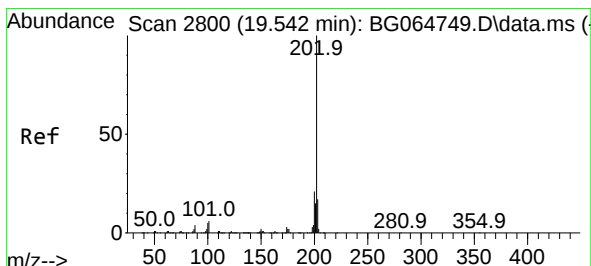
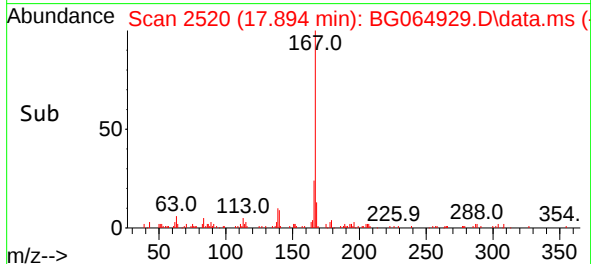
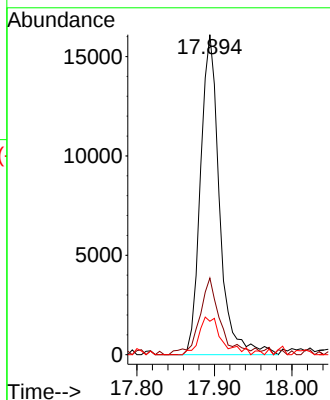
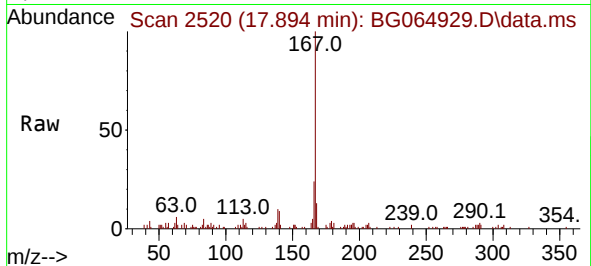




#73
 Carbazole
 Concen: 2.889 ng
 RT: 17.894 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

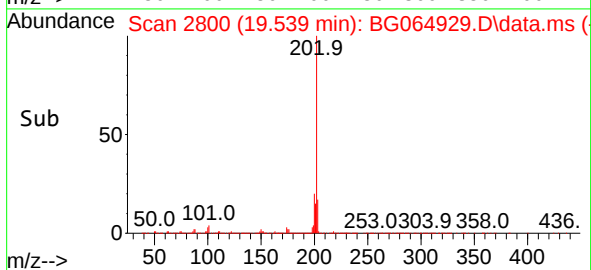
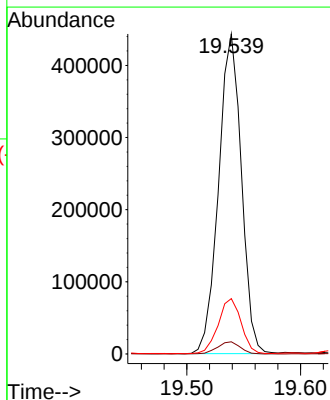
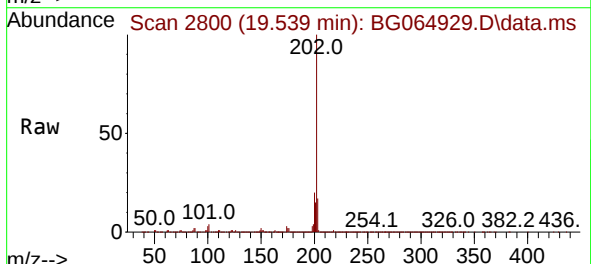
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-120825DL

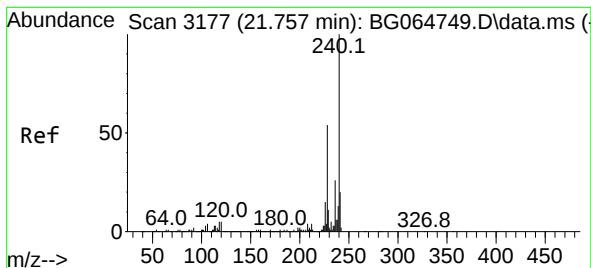
Tgt Ion:167 Resp: 27377
 Ion Ratio Lower Upper
 167 100
 166 23.9 18.0 27.0
 139 10.5 9.7 14.5



#75
 Fluoranthene
 Concen: 41.749 ng
 RT: 19.539 min Scan# 2800
 Delta R.T. -0.003 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

Tgt Ion:202 Resp: 617185
 Ion Ratio Lower Upper
 202 100
 101 3.8 0.0 26.4
 203 17.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.754 min Scan# 31

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

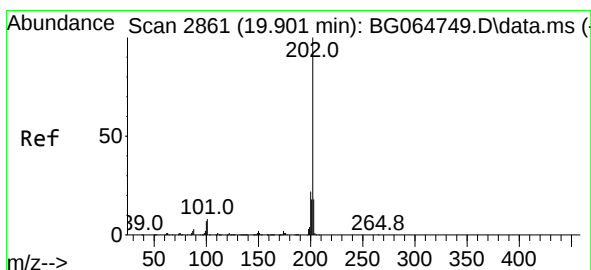
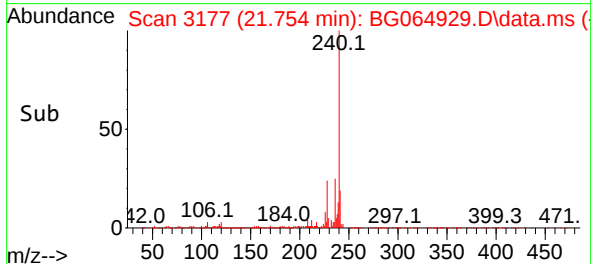
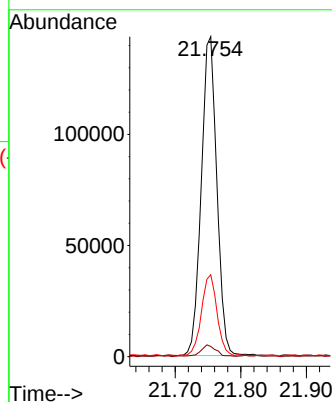
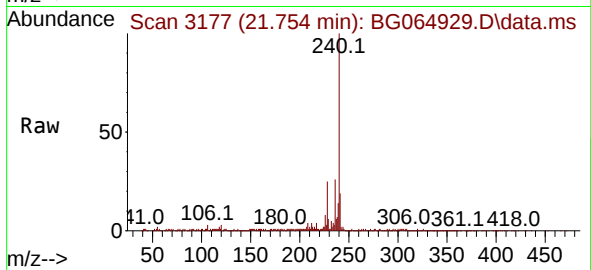
Tgt Ion:240 Resp: 237301

Ion Ratio Lower Upper

240 100

120 3.2 4.2 6.4#

236 25.6 20.8 31.2



#78

Pyrene

Concen: 39.626 ng

RT: 19.898 min Scan# 2861

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

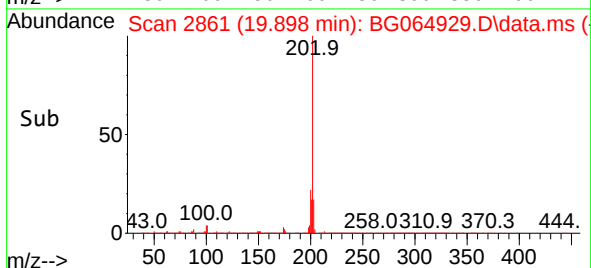
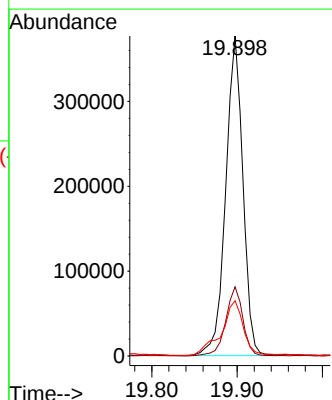
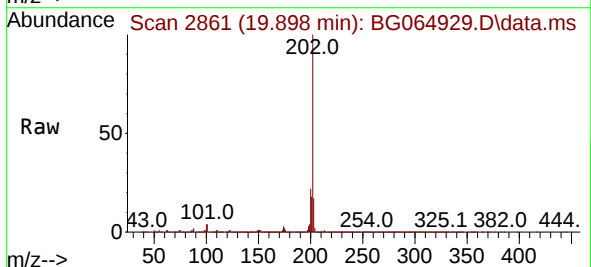
Tgt Ion:202 Resp: 527012

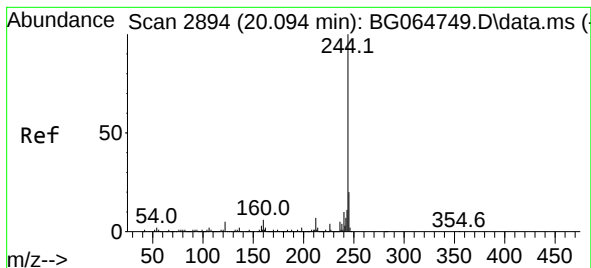
Ion Ratio Lower Upper

202 100

200 21.6 17.9 26.9

203 17.3 14.0 21.0





#79

Terphenyl-d14

Concen: 10.177 ng

RT: 20.086 min Scan# 21

Delta R.T. -0.009 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

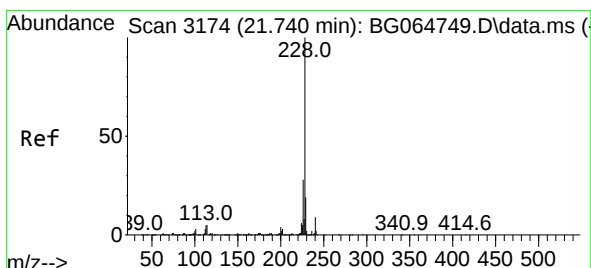
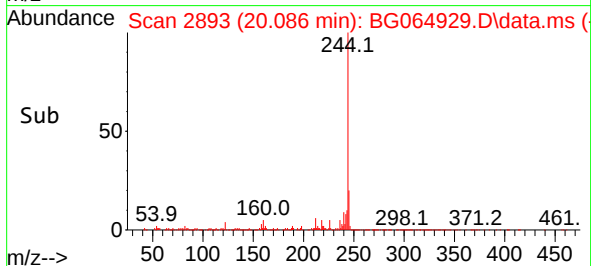
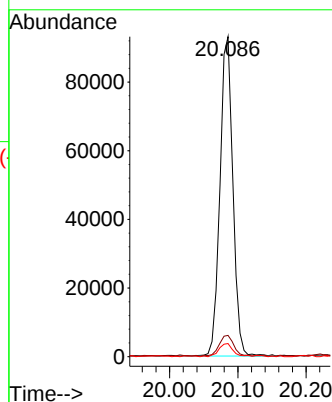
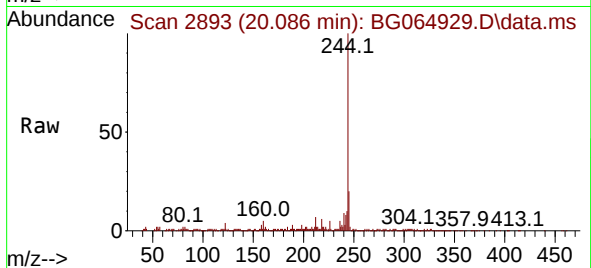
Tgt Ion:244 Resp: 122771

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.6

122 4.1 4.3 6.5#



#81

Benzo(a)anthracene

Concen: 20.517 ng

RT: 21.731 min Scan# 3173

Delta R.T. -0.009 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

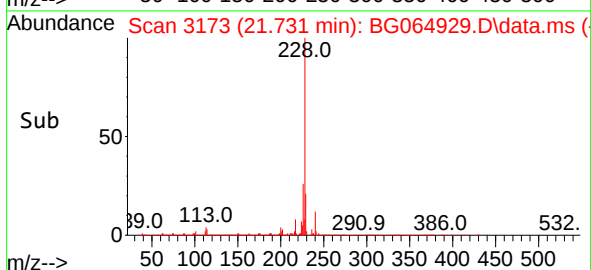
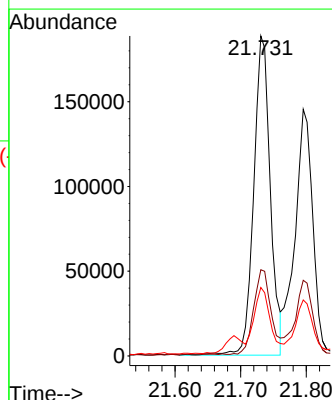
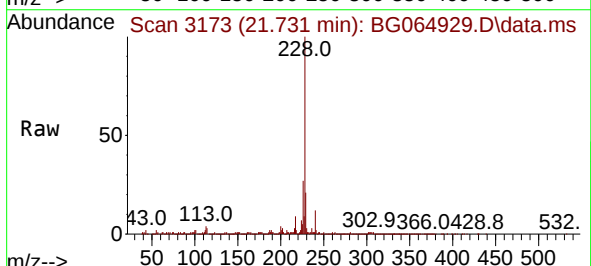
Tgt Ion:228 Resp: 331046

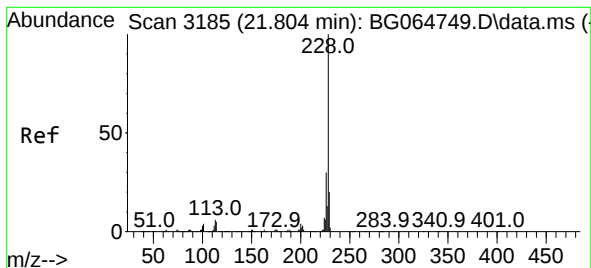
Ion Ratio Lower Upper

228 100

226 27.0 22.1 33.1

229 21.4 15.5 23.3





#83

Chrysene

Concen: 18.038 ng

RT: 21.795 min Scan# 3184

Delta R.T. -0.009 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

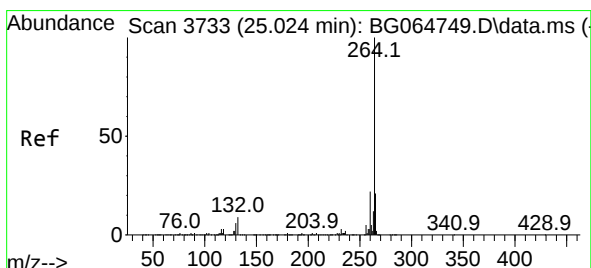
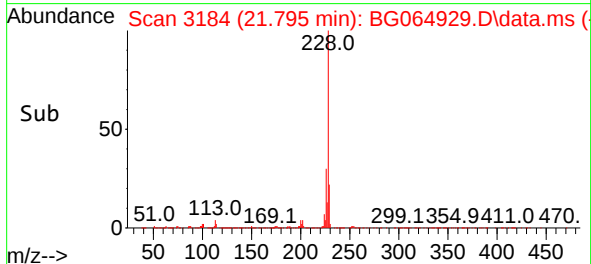
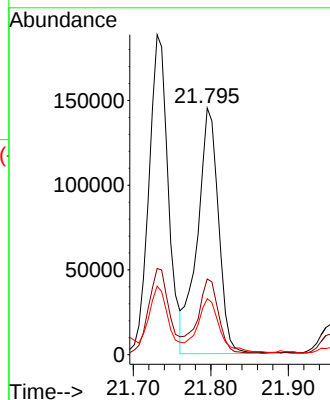
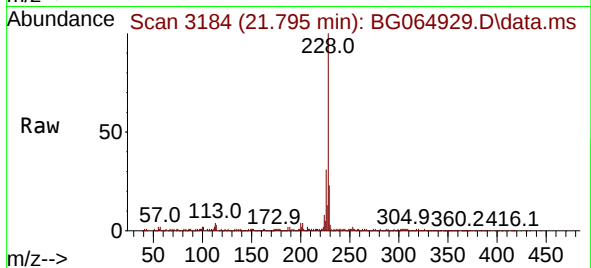
Tgt Ion:228 Resp: 274403

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.2

229 22.7 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.021 min Scan# 3733

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

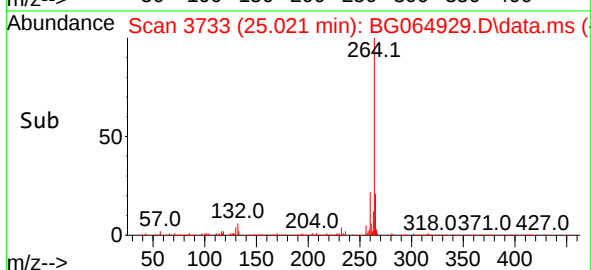
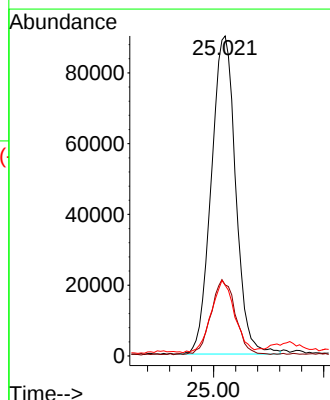
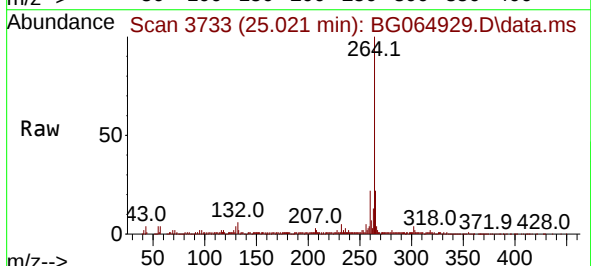
Tgt Ion:264 Resp: 276334

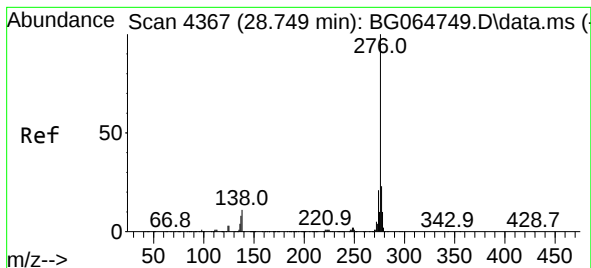
Ion Ratio Lower Upper

264 100

260 22.2 17.2 25.8

265 22.1 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.104 ng

RT: 28.746 min Scan# 41

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

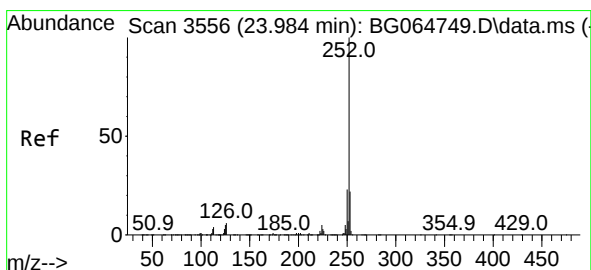
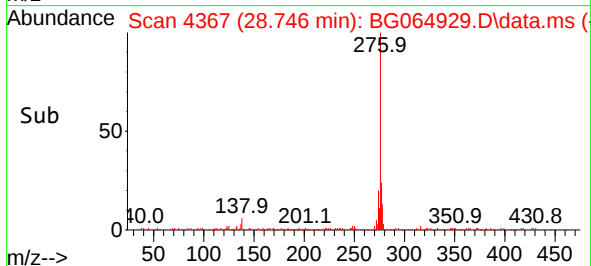
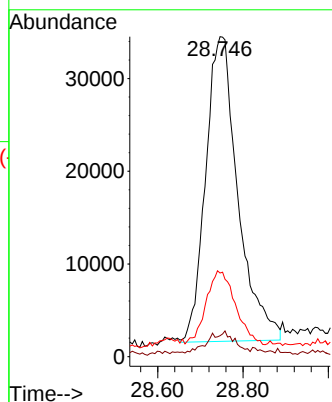
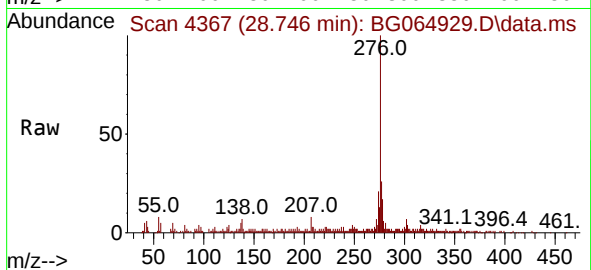
Tgt Ion:276 Resp: 172835

Ion Ratio Lower Upper

276 100

138 2.5 4.5 6.7#

277 22.7 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 23.089 ng

RT: 23.981 min Scan# 3556

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

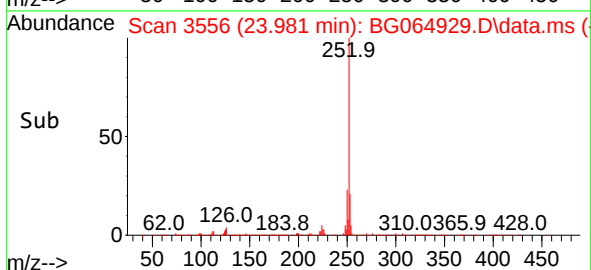
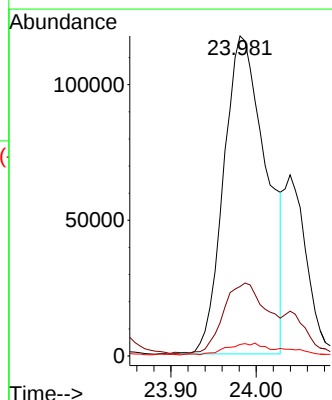
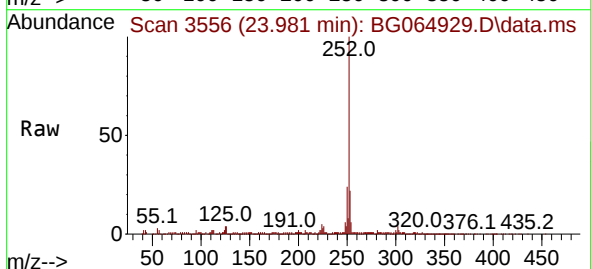
Tgt Ion:252 Resp: 406029

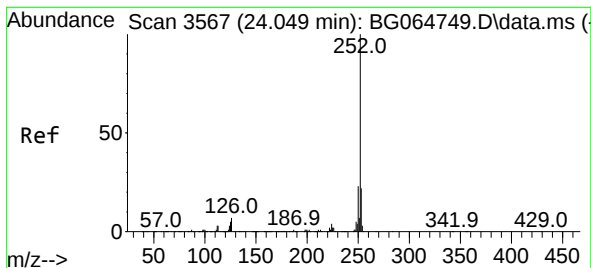
Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

125 3.6 4.2 6.2#





#89

Benzo(k)fluoranthene

Concen: 23.017 ng

RT: 23.981 min Scan# 31

Delta R.T. -0.068 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

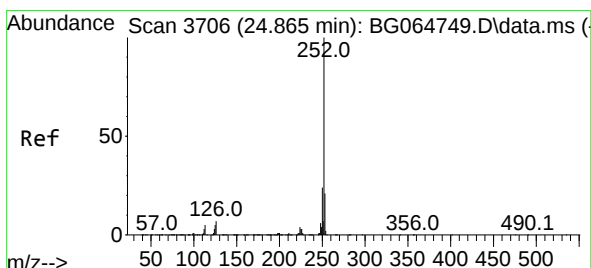
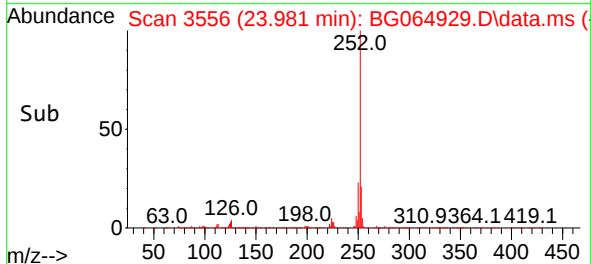
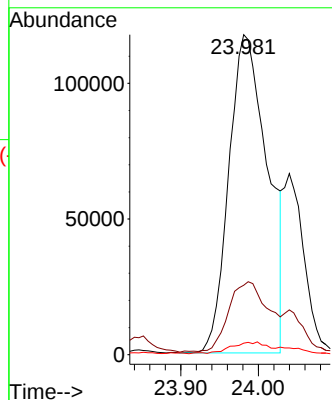
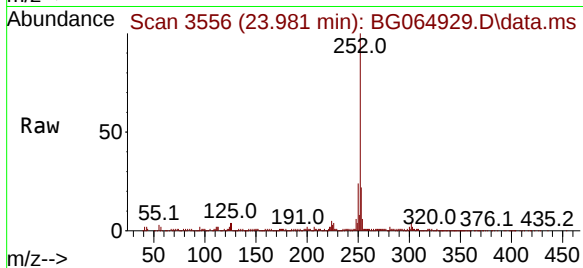
Tgt Ion:252 Resp: 406652

Ion Ratio Lower Upper

252 100

253 21.7 17.8 26.8

125 3.6 4.1 6.1#



#90

Benzo(a)pyrene

Concen: 11.175 ng

RT: 24.715 min Scan# 3681

Delta R.T. -0.150 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

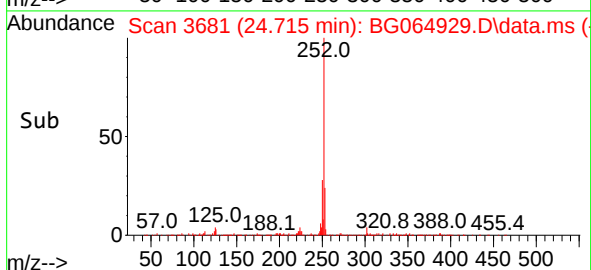
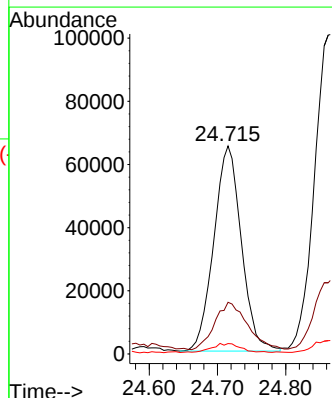
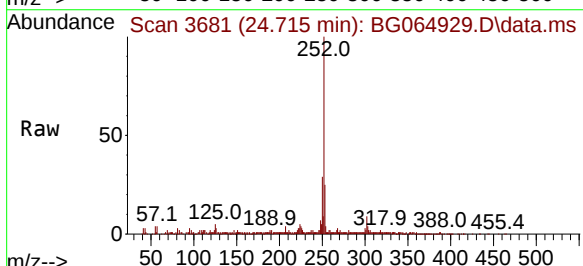
Tgt Ion:252 Resp: 182290

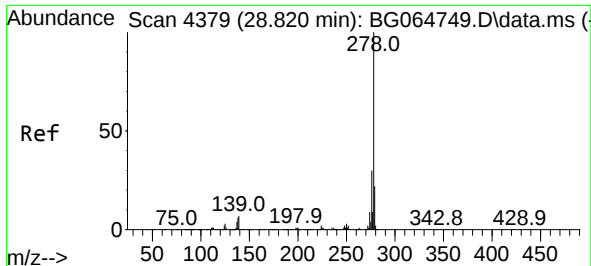
Ion Ratio Lower Upper

252 100

253 24.8 16.9 25.3

125 5.0 4.2 6.4

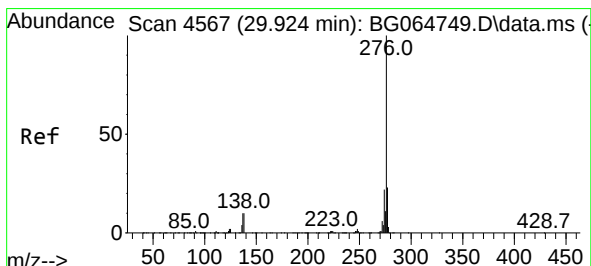
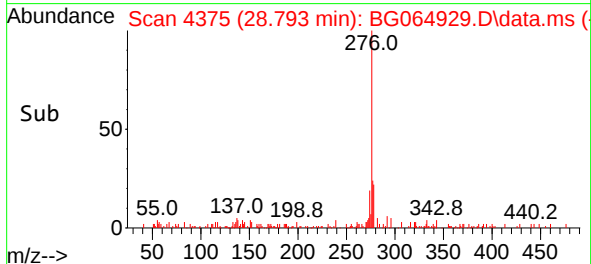
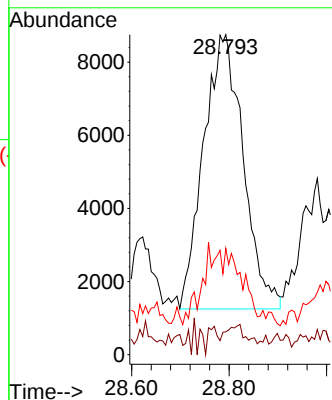
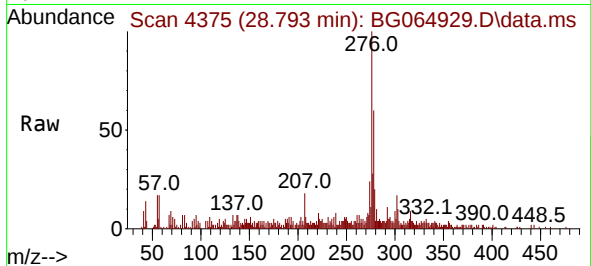




#91
Dibenzo(a,h)anthracene
Concen: 2.723 ng
RT: 28.793 min Scan# 41
Delta R.T. -0.026 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

Tgt Ion:278 Resp: 42352
Ion Ratio Lower Upper
278 100
139 9.0 5.8 8.8#
279 33.2 17.3 25.9#



#92
Benzo(g,h,i)perylene
Concen: 11.167 ng
RT: 29.915 min Scan# 4566
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:276 Resp: 167155
Ion Ratio Lower Upper
276 100
277 21.5 18.0 27.0
138 8.0 8.2 12.2#

