

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071425\
 Data File : BM050438.D
 Acq On : 14 Jul 2025 22:54
 Operator : RC/JU
 Sample : Q2578-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-A5-01-C

Quant Time: Jul 15 02:05:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 08 18:32:25 2025
 Response via : Initial Calibration

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

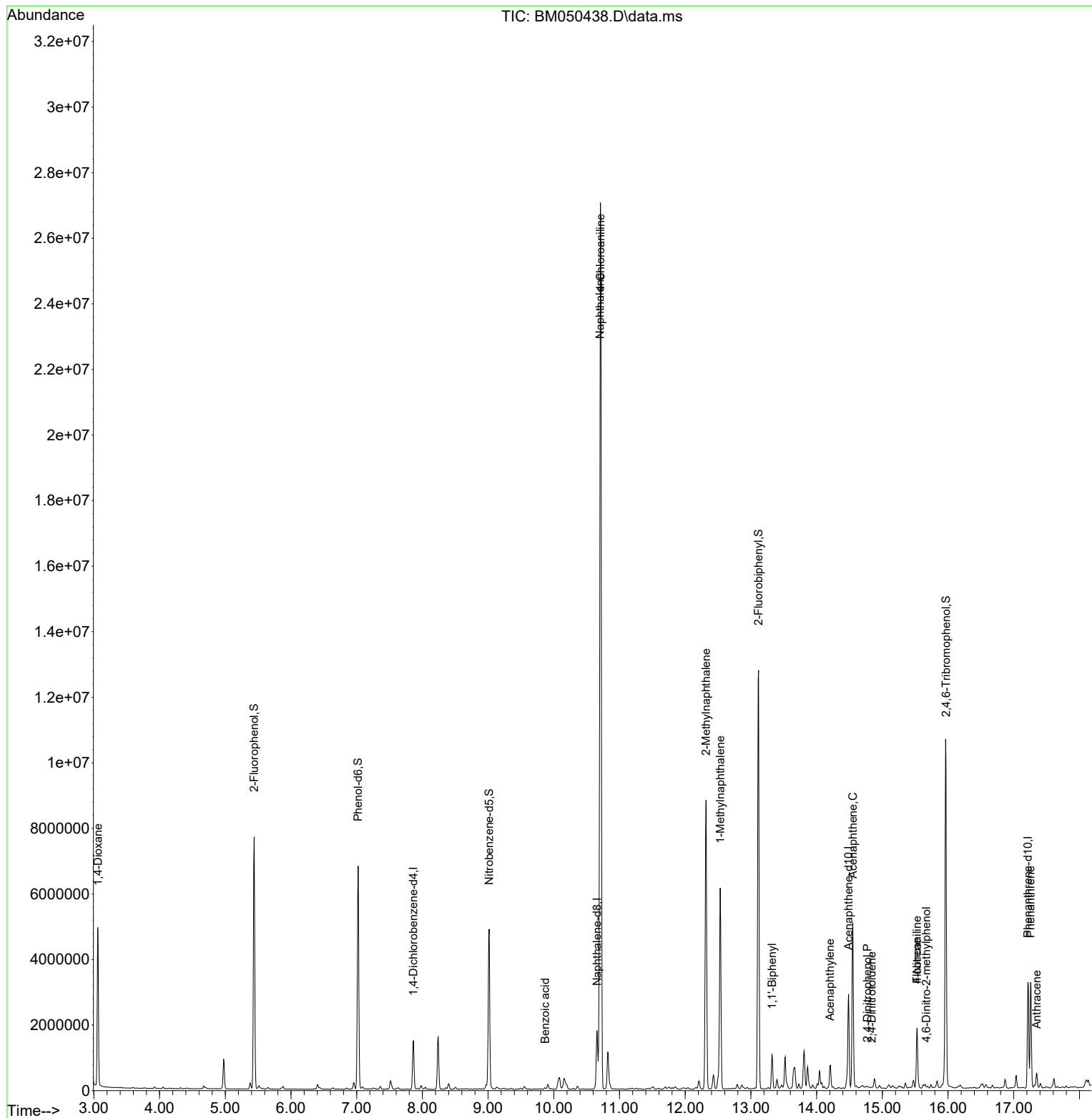
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	406303	20.000	ng	0.00
21) Naphthalene-d8	10.657	136	1510572	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	1001056	20.000	ng	0.00
64) Phenanthrene-d10	17.215	188	1993082	20.000	ng	-0.01
76) Chrysene-d12	21.439	240	1992538	20.000	ng	-0.02
86) Perylene-d12	24.468	264	2058330	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	3156459	133.725	ng	0.00
7) Phenol-d6	7.022	99	3598339	120.930	ng	0.00
23) Nitrobenzene-d5	9.016	82	2652160	89.574	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	1999830	164.420	ng	0.00
45) 2-Fluorobiphenyl	13.116	172	6685623	82.476	ng	0.00
79) Terphenyl-d14	19.827	244	11365563	100.361	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.063	88	31648	3.261	ng	# 1
31) Naphthalene	10.704	128	18532645	241.542	ng	# 91
32) Benzoic acid	9.869	122	15714	6.952	ng	# 81
33) 4-Chloroaniline	10.710	127	3066094	94.525	ng	# 31
37) 2-Methylnaphthalene	12.316	142	4048151	83.561	ng	99
38) 1-Methylnaphthalene	12.533	142	2728595	53.220	ng	99
46) 1,1'-Biphenyl	13.321	154	530987	7.149	ng	99
49) Acenaphthylene	14.204	152	301017	3.364	ng	# 95
52) Acenaphthene	14.551	154	1811059	31.830	ng	99
54) 2,4-Dinitrophenol	14.774	184	95	6.419	ng	# 1
57) 2,4-Dinitrotoluene	14.839	165	2774	2.856	ng	# 78
58) Fluorene	15.527	166	825826	11.437	ng	98
62) 4-Nitroaniline	15.527	138	8796	3.101	ng	# 29
65) 4,6-Dinitro-2-methylph...	15.668	198	54	6.307	ng	# 1
71) Phenanthrene	17.256	178	1968866	17.458	ng	100
72) Anthracene	17.351	178	277524	2.472	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071425\
Data File : BM050438.D
Acq On : 14 Jul 2025 22:54
Operator : RC/JU
Sample : Q2578-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

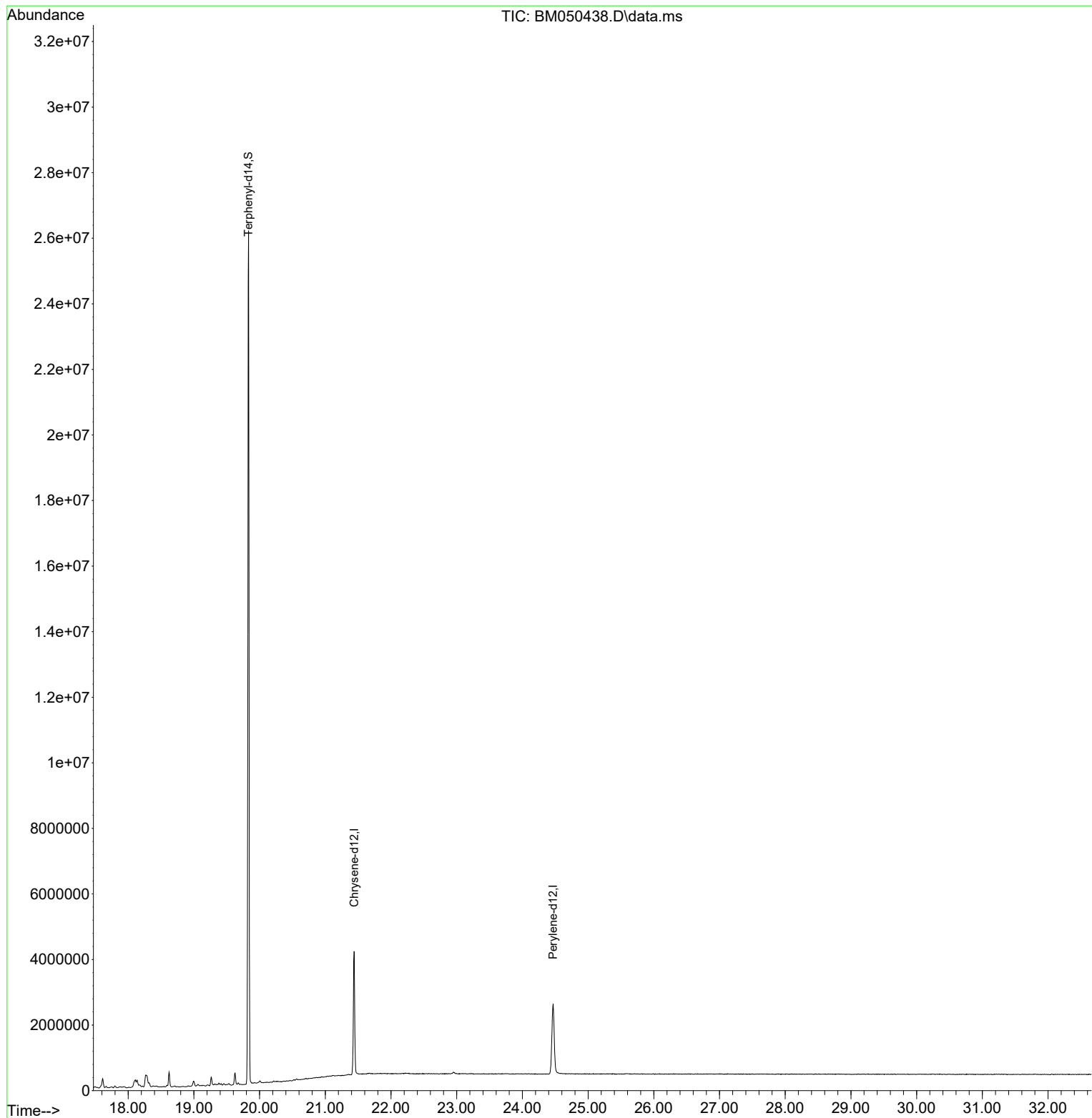
Quant Time: Jul 15 02:05:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

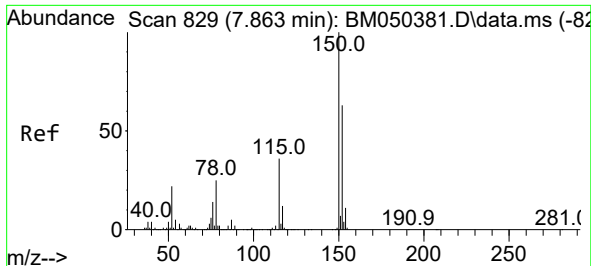


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071425\
Data File : BM050438.D
Acq On : 14 Jul 2025 22:54
Operator : RC/JU
Sample : Q2578-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

Quant Time: Jul 15 02:05:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

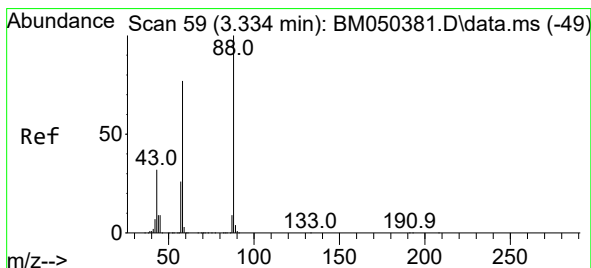
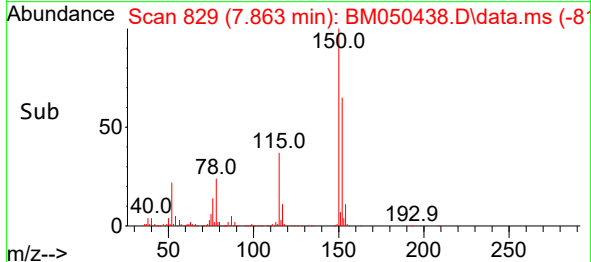
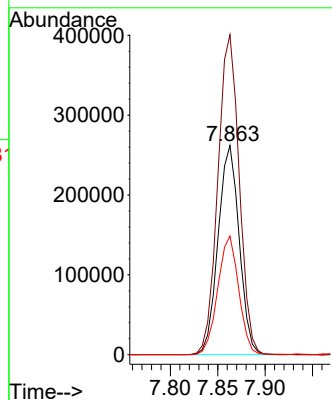
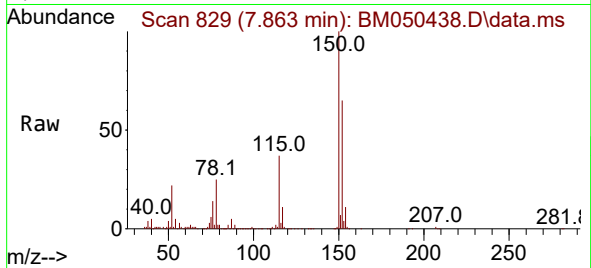




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 81
Delta R.T. -0.000 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

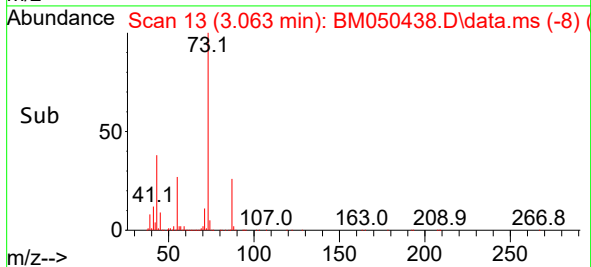
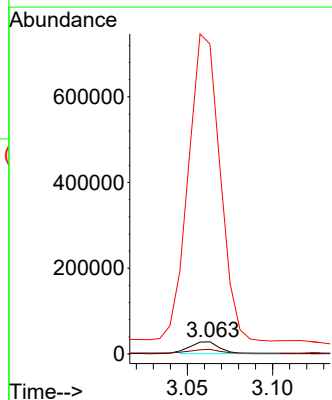
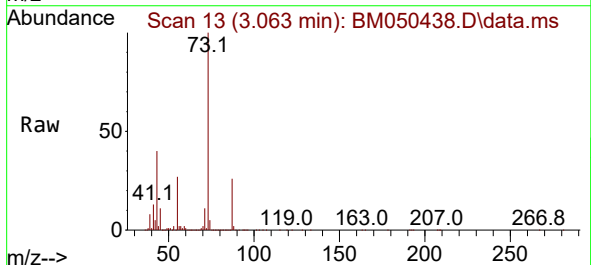
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

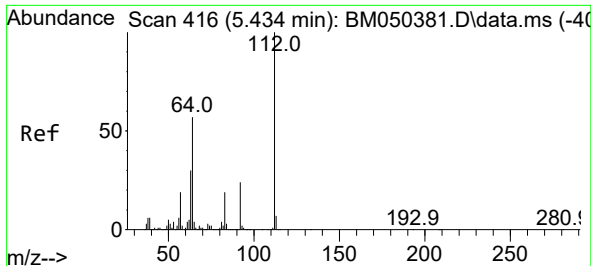
Tgt Ion:152 Resp: 406303
Ion Ratio Lower Upper
152 100
150 152.9 126.2 189.4
115 56.8 45.8 68.8



#2
1,4-Dioxane
Concen: 3.261 ng
RT: 3.063 min Scan# 13
Delta R.T. -0.271 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion: 88 Resp: 31648
Ion Ratio Lower Upper
88 100
58 32.5 61.0 91.6#
43 2703.4 24.6 37.0#

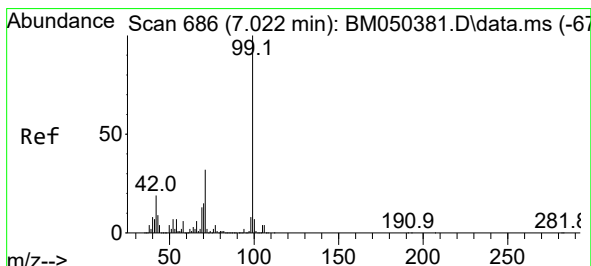
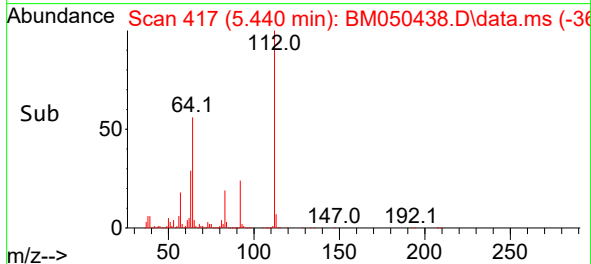
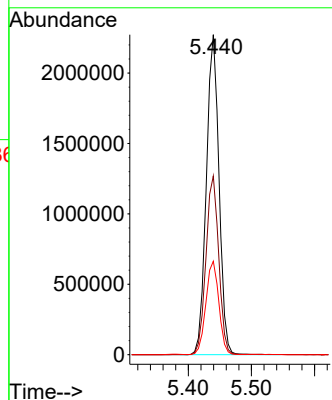
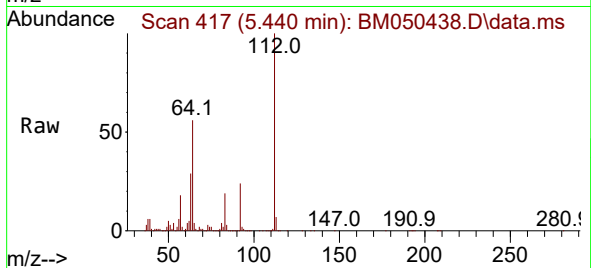




#5
2-Fluorophenol
Concen: 133.725 ng
RT: 5.440 min Scan# 416
Delta R.T. 0.006 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

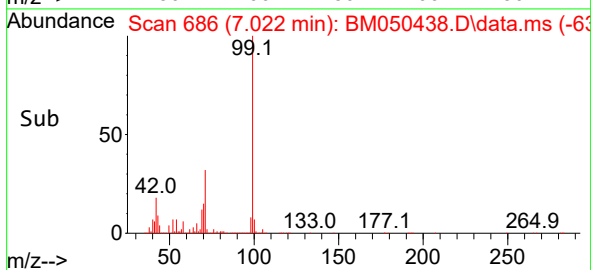
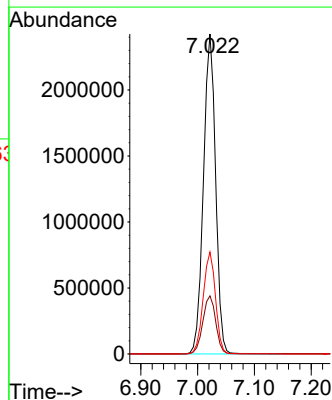
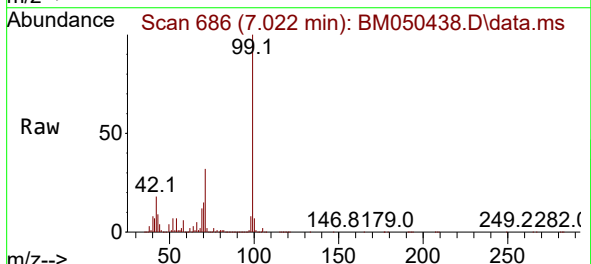
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

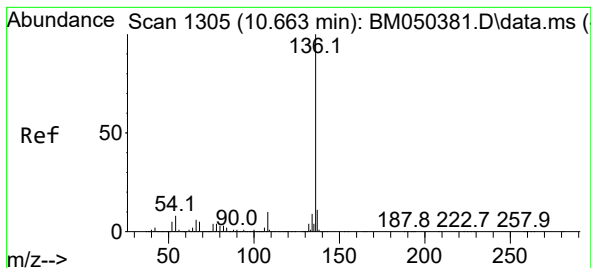
Tgt Ion:112 Resp: 3156459
Ion Ratio Lower Upper
112 100
64 55.9 45.5 68.3
63 29.2 24.2 36.4



#7
Phenol-d6
Concen: 120.930 ng
RT: 7.022 min Scan# 686
Delta R.T. 0.000 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion: 99 Resp: 3598339
Ion Ratio Lower Upper
99 100
42 18.2 15.0 22.6
71 31.9 25.9 38.9





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.657 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

Instrument :

BNA_M

ClientSampleId :

WC-A5-01-C

Tgt Ion:136 Resp: 1510572

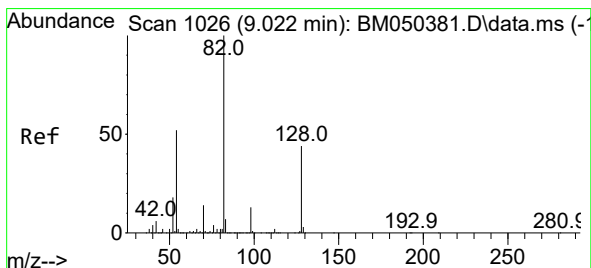
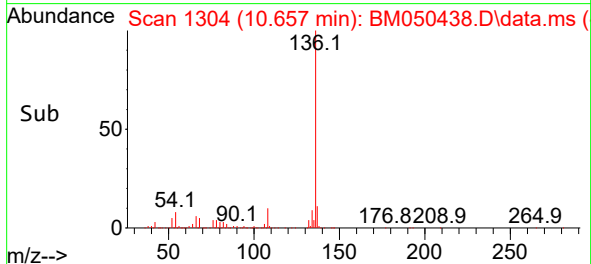
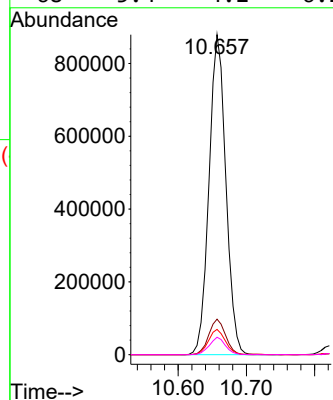
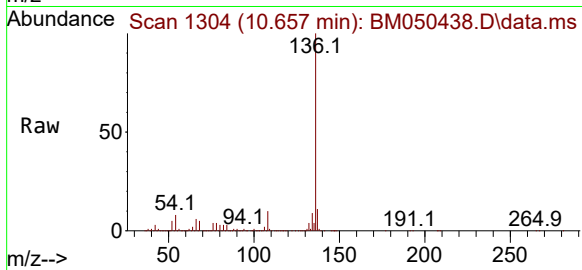
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 7.9 6.3 9.5

68 5.4 4.2 6.2



#23

Nitrobenzene-d5

Concen: 89.574 ng

RT: 9.016 min Scan# 1025

Delta R.T. -0.006 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

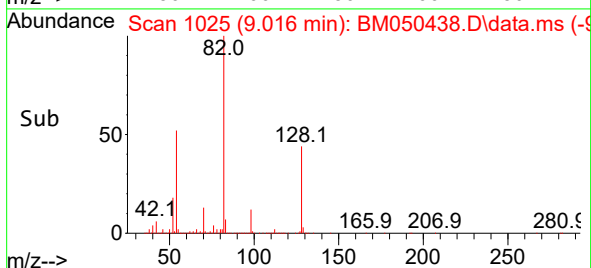
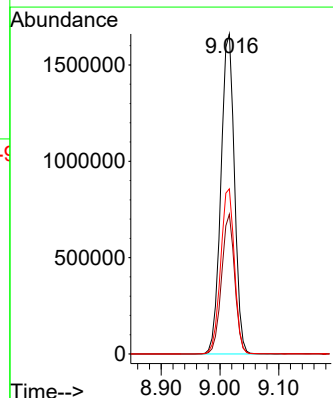
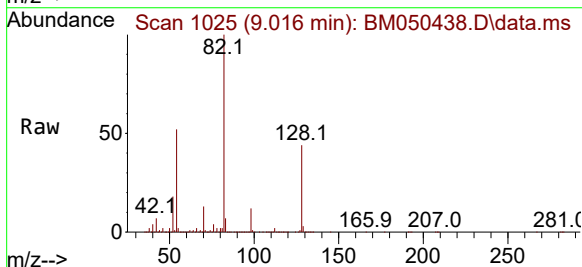
Tgt Ion: 82 Resp: 2652160

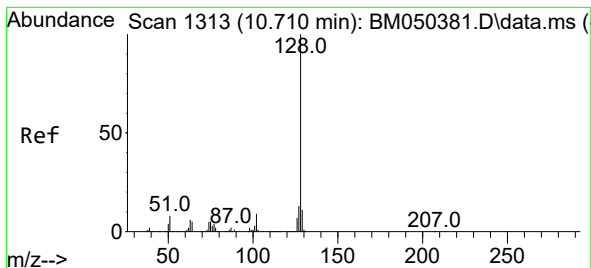
Ion Ratio Lower Upper

82 100

128 43.7 35.2 52.8

54 51.6 41.5 62.3





#31

Naphthalene

Concen: 241.542 ng

RT: 10.704 min Scan# 1170

Delta R.T. -0.006 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

Instrument :

BNA_M

ClientSampleId :

WC-A5-01-C

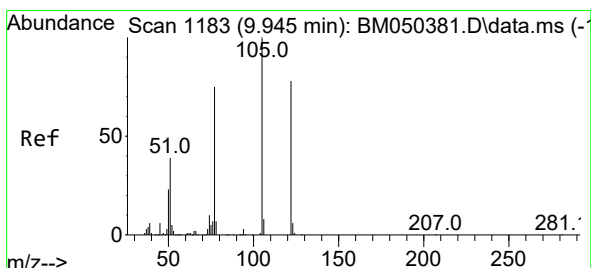
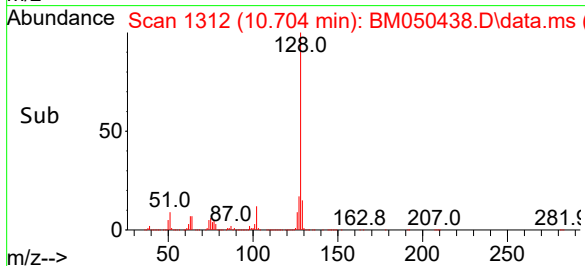
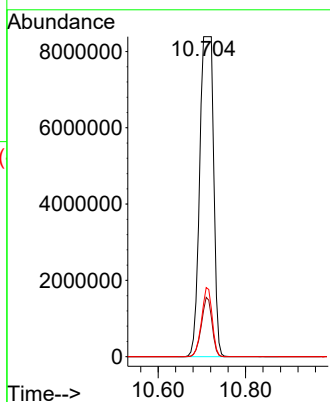
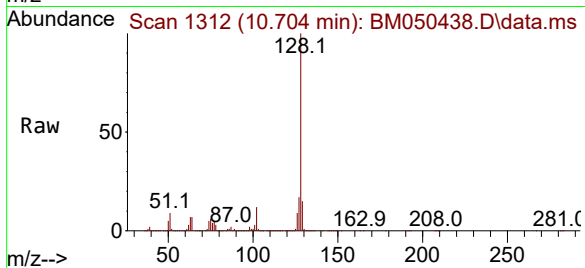
Tgt Ion:128 Resp:18532645

Ion Ratio Lower Upper

128 100

129 14.6 8.8 13.2#

127 16.7 10.4 15.6#



#32

Benzoic acid

Concen: 6.952 ng

RT: 9.869 min Scan# 1170

Delta R.T. -0.076 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

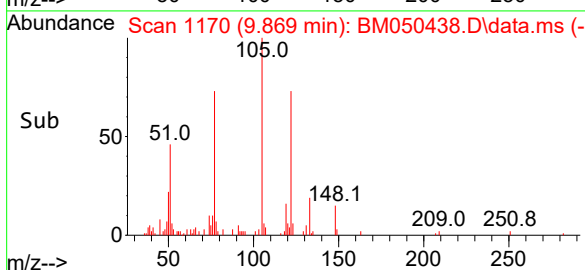
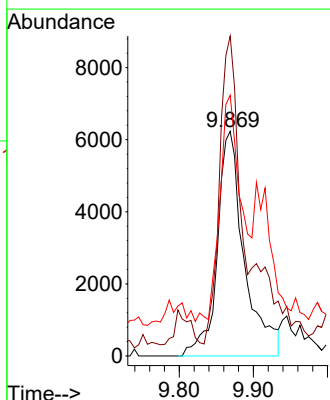
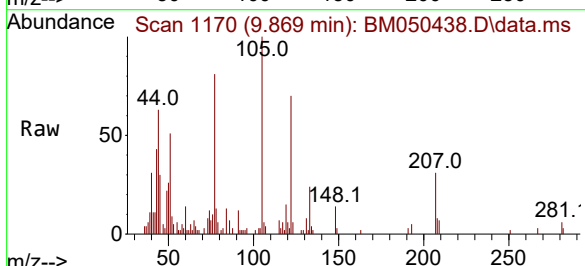
Tgt Ion:122 Resp: 15714

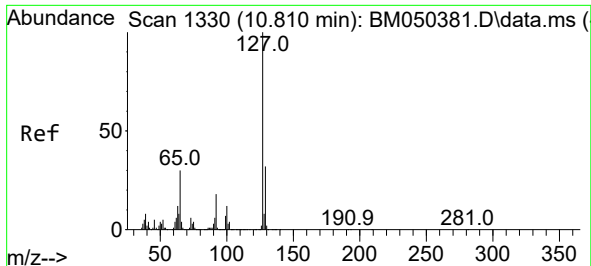
Ion Ratio Lower Upper

122 100

105 142.5 104.0 144.0

77 116.0 73.8 113.8#

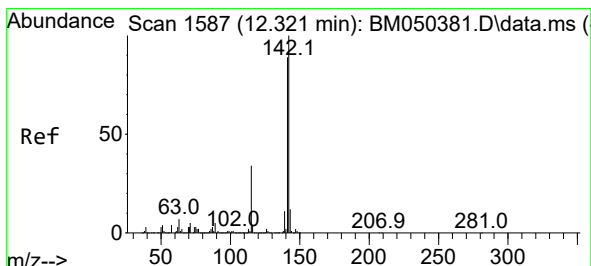
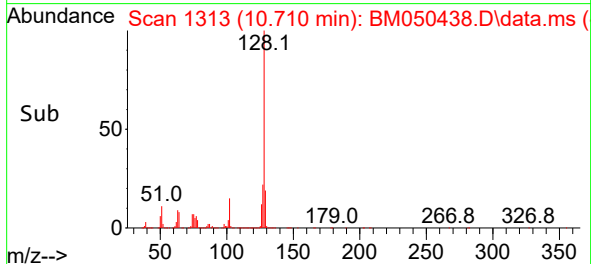
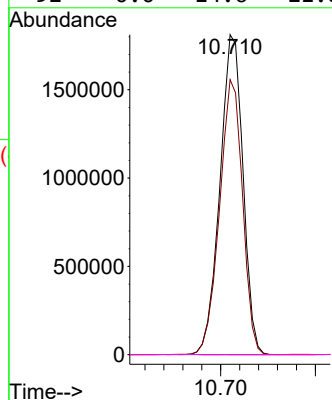
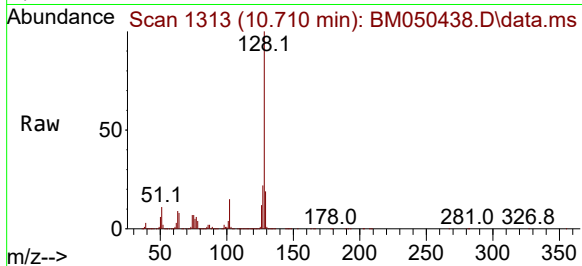




#33
4-Chloroaniline
Concen: 94.525 ng
RT: 10.710 min Scan# 11
Delta R.T. -0.100 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

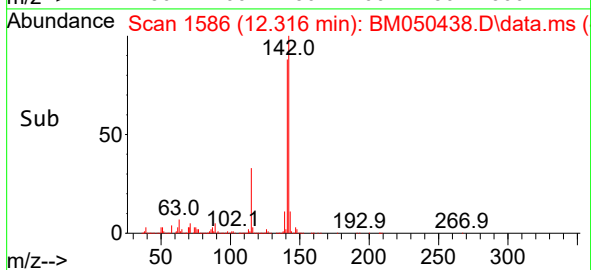
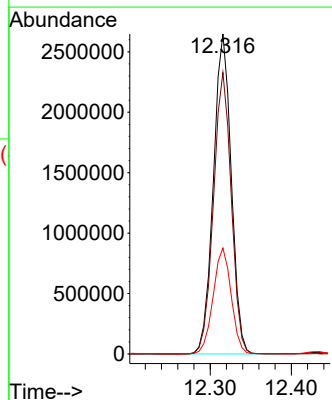
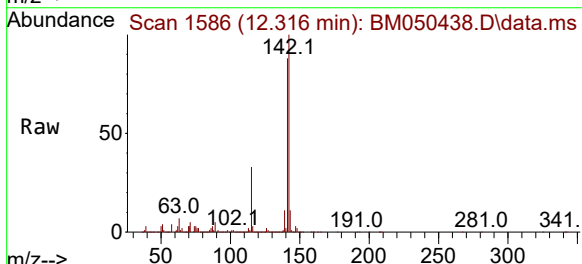
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

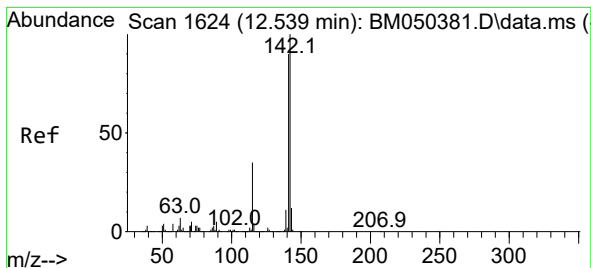
Tgt Ion:127 Resp: 3066094
Ion Ratio Lower Upper
127 100
129 85.9 25.5 38.3#
65 0.0 23.9 35.9#
92 0.0 14.6 21.8#



#37
2-Methylnaphthalene
Concen: 83.561 ng
RT: 12.316 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion:142 Resp: 4048151
Ion Ratio Lower Upper
142 100
141 88.0 70.8 106.2
115 33.1 27.0 40.4





#38

1-Methylnaphthalene

Concen: 53.220 ng

RT: 12.533 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

Instrument :

BNA_M

ClientSampleId :

WC-A5-01-C

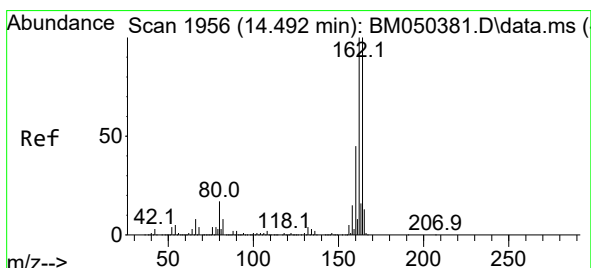
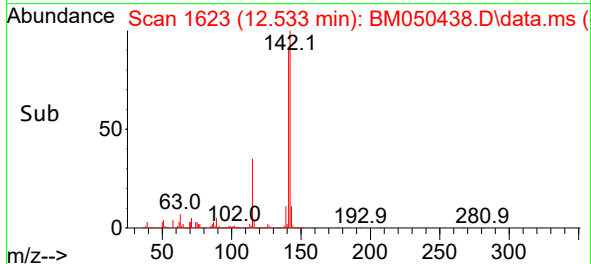
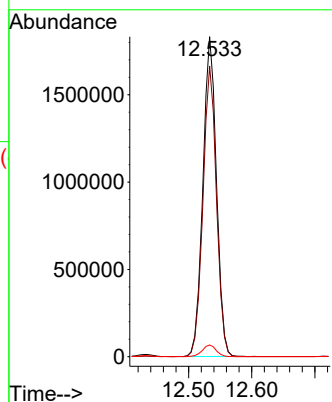
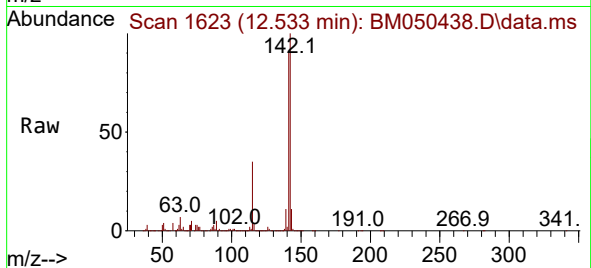
Tgt Ion:142 Resp: 2728595

Ion Ratio Lower Upper

142 100

141 90.8 71.9 107.9

116 3.7 3.0 4.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.486 min Scan# 1955

Delta R.T. -0.006 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

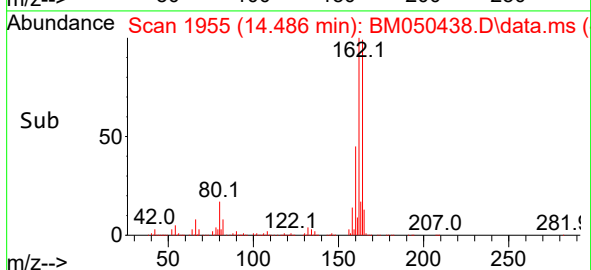
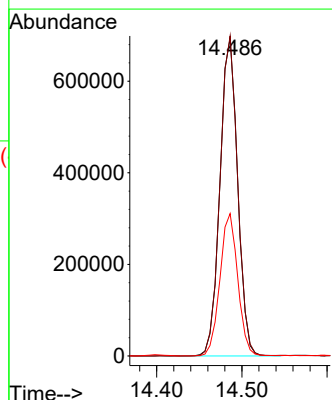
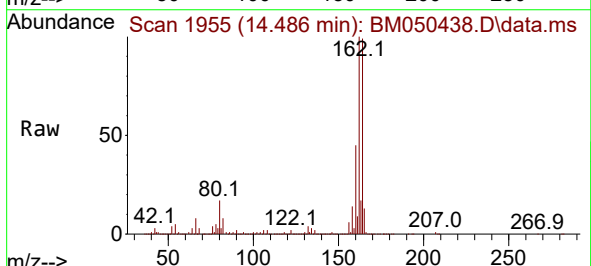
Tgt Ion:164 Resp: 1001056

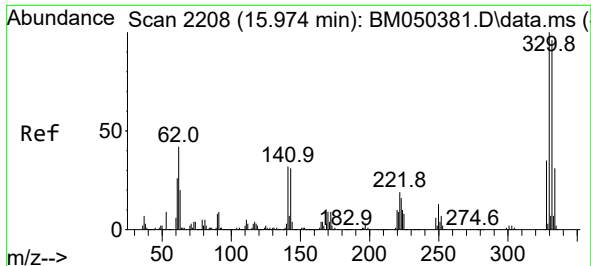
Ion Ratio Lower Upper

164 100

162 100.7 79.9 119.9

160 44.8 36.2 54.4

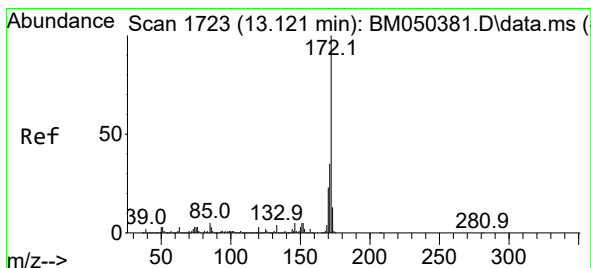
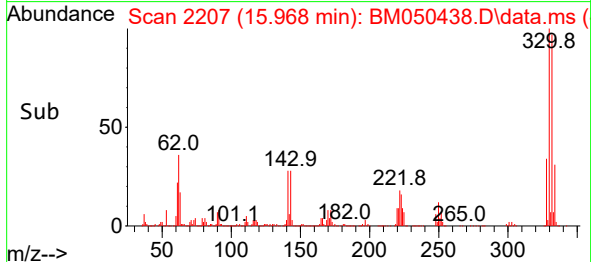
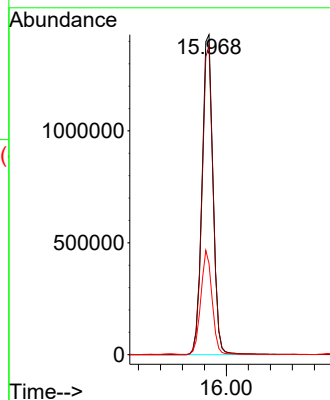
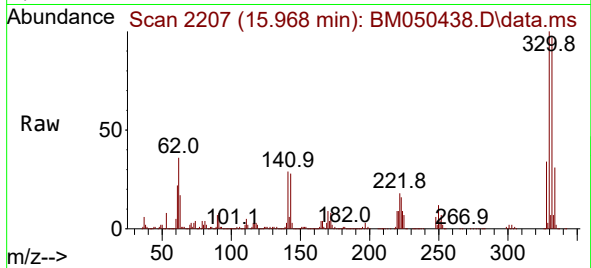




#42
2,4,6-Tribromophenol
Concen: 164.420 ng
RT: 15.968 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

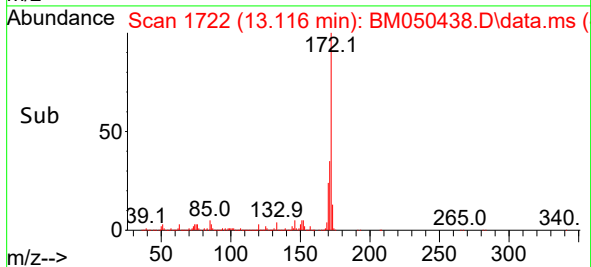
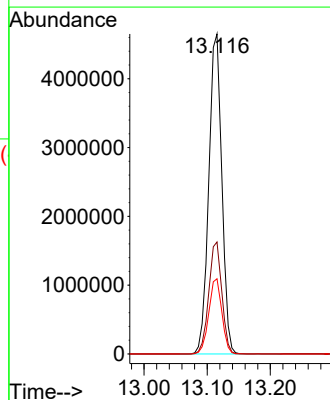
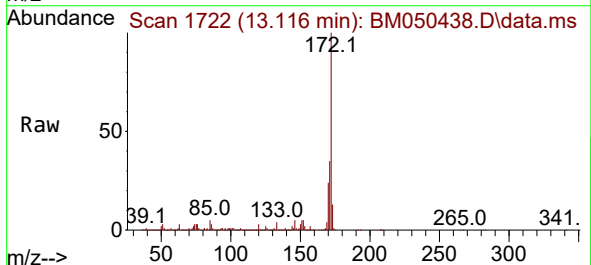
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

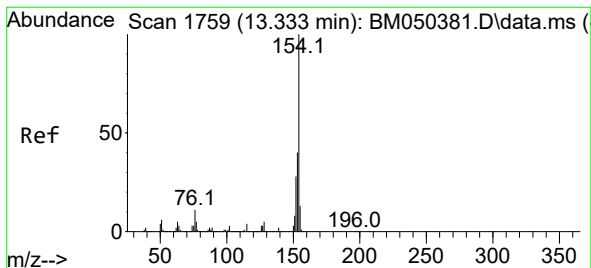
Tgt Ion:330 Resp: 1999830
Ion Ratio Lower Upper
330 100
332 96.6 76.9 115.3
141 32.8 27.4 41.0



#45
2-Fluorobiphenyl
Concen: 82.476 ng
RT: 13.116 min Scan# 1722
Delta R.T. -0.006 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion:172 Resp: 6685623
Ion Ratio Lower Upper
172 100
171 35.0 27.7 41.5
170 23.5 18.8 28.2





#46

1,1'-Biphenyl

Concen: 7.149 ng

RT: 13.321 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

Instrument :

BNA_M

ClientSampleId :

WC-A5-01-C

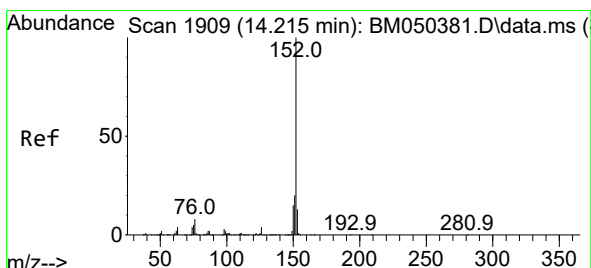
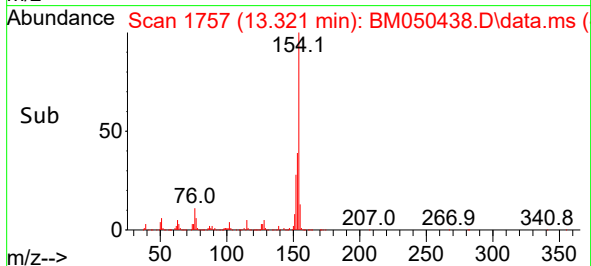
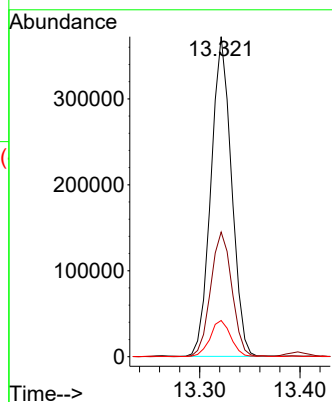
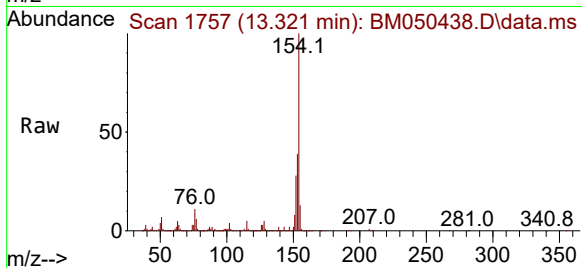
Tgt Ion:154 Resp: 530987

Ion Ratio Lower Upper

154 100

153 38.9 19.7 59.7

76 11.3 0.0 30.9



#49

Acenaphthylene

Concen: 3.364 ng

RT: 14.204 min Scan# 1907

Delta R.T. -0.012 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

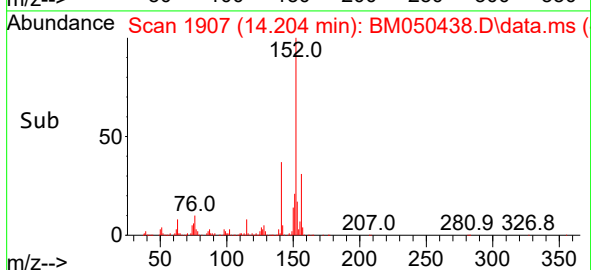
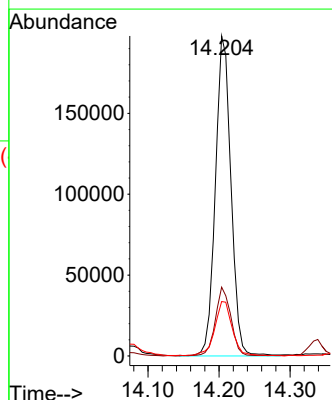
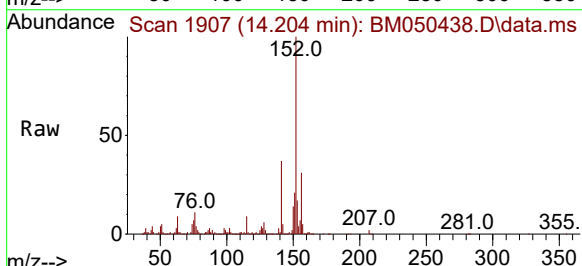
Tgt Ion:152 Resp: 301017

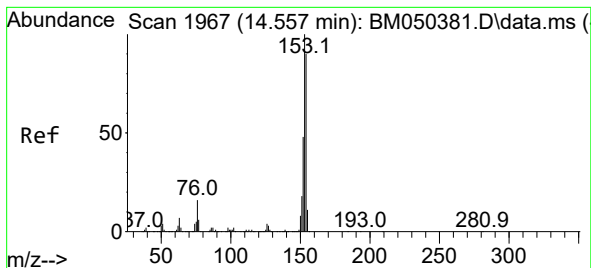
Ion Ratio Lower Upper

152 100

151 21.5 16.3 24.5

153 17.0 10.6 15.8#





#52

Acenaphthene

Concen: 31.830 ng

RT: 14.551 min Scan# 1967

Delta R.T. -0.006 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

Instrument :

BNA_M

ClientSampleId :

WC-A5-01-C

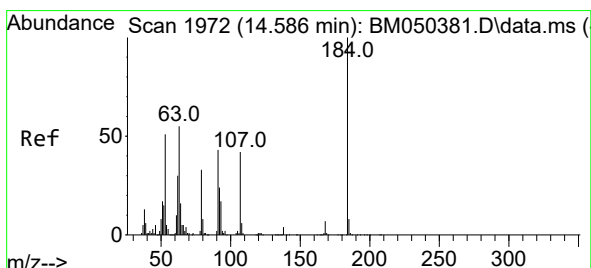
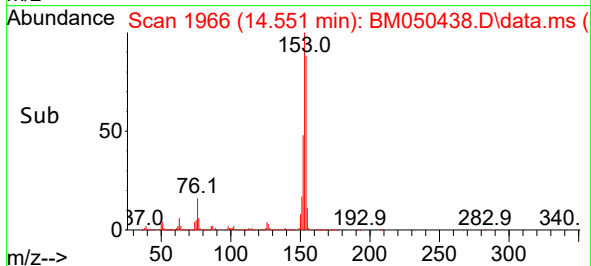
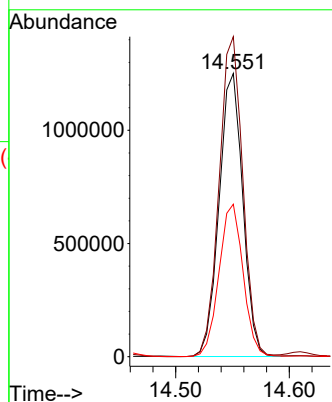
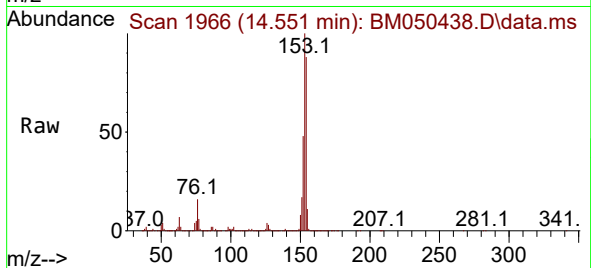
Tgt Ion:154 Resp: 1811059

Ion Ratio Lower Upper

154 100

153 113.0 89.2 133.8

152 53.9 42.6 64.0



#54

2,4-Dinitrophenol

Concen: 6.419 ng

RT: 14.774 min Scan# 2004

Delta R.T. 0.188 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

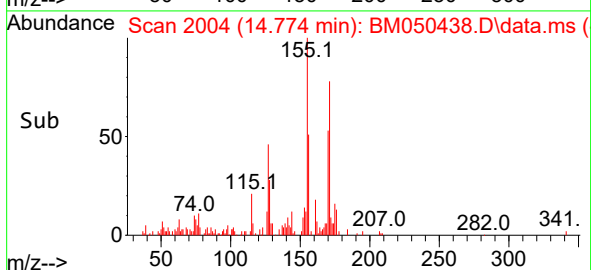
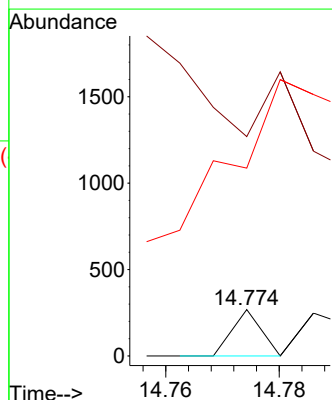
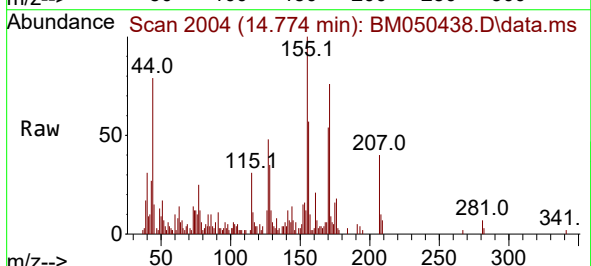
Tgt Ion:184 Resp: 95

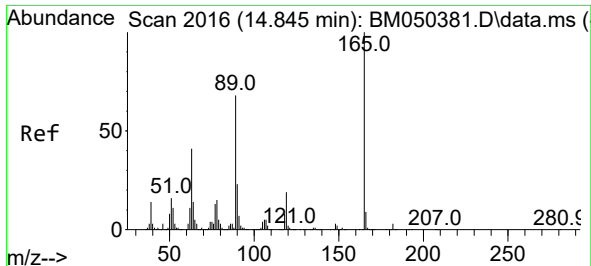
Ion Ratio Lower Upper

184 100

63 473.5 53.4 80.0#

154 405.6 61.6 92.4#

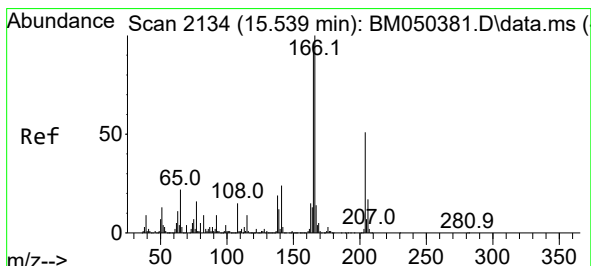
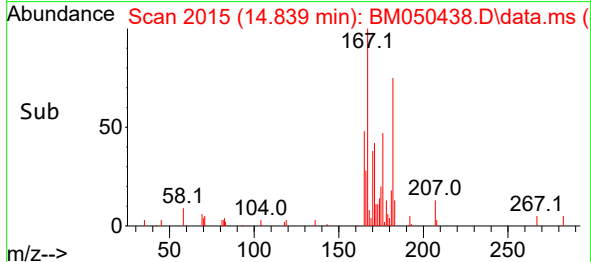
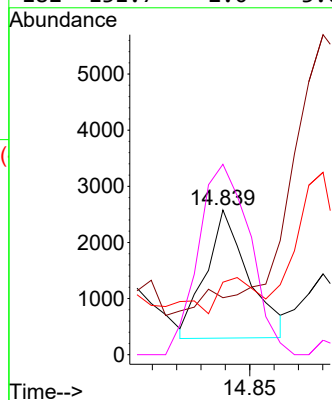
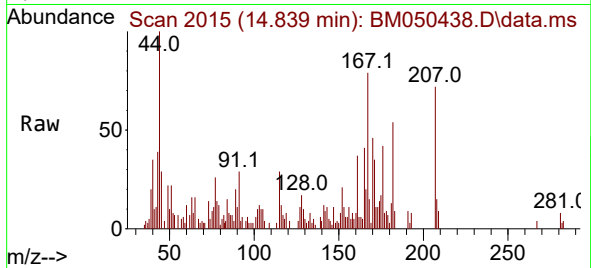




#57
2,4-Dinitrotoluene
Concen: 2.856 ng
RT: 14.839 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

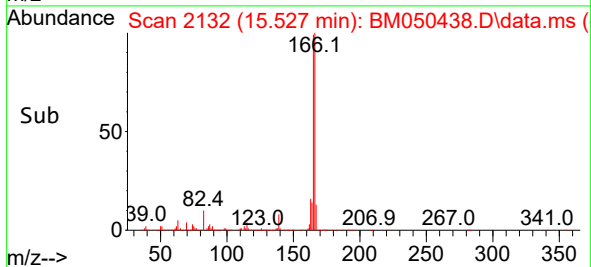
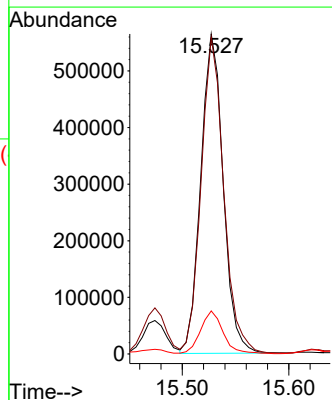
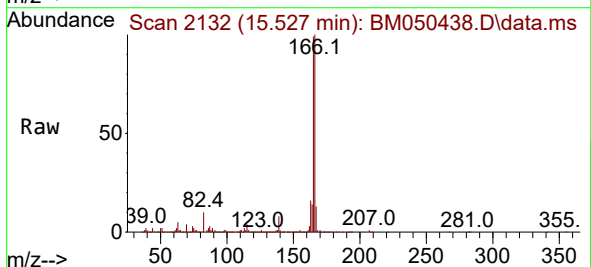
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

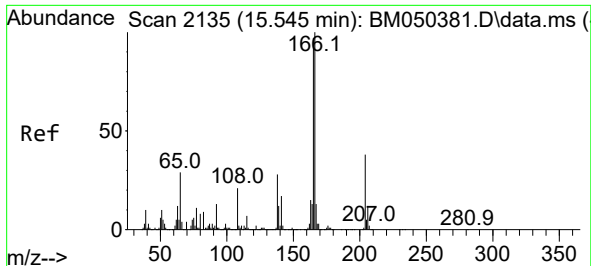
Tgt Ion:165 Resp: 2774
Ion Ratio Lower Upper
165 100
63 39.4 32.5 48.7
89 50.1 54.0 81.0#
182 131.7 2.0 3.0#



#58
Fluorene
Concen: 11.437 ng
RT: 15.527 min Scan# 2132
Delta R.T. -0.012 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion:166 Resp: 825826
Ion Ratio Lower Upper
166 100
165 98.9 77.0 115.6
167 13.5 10.9 16.3

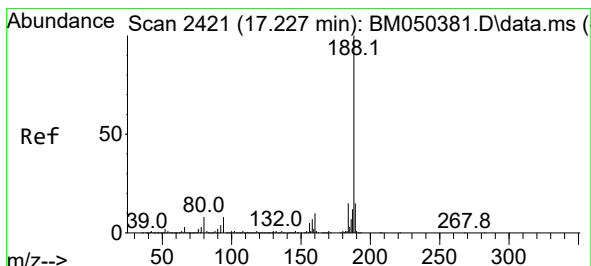
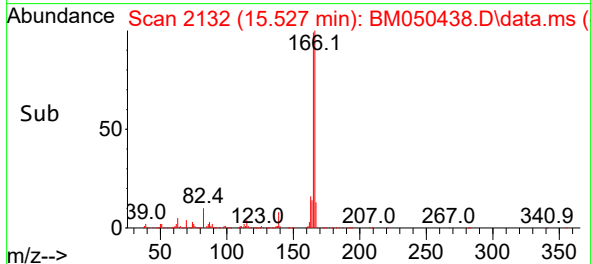
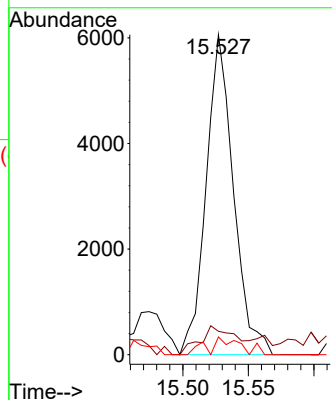
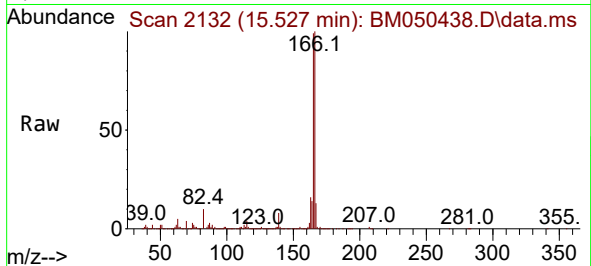




#62
4-Nitroaniline
Concen: 3.101 ng
RT: 15.527 min Scan# 2135
Delta R.T. -0.018 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

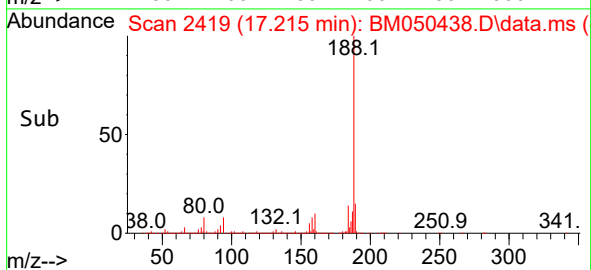
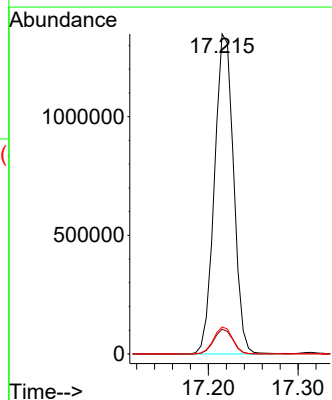
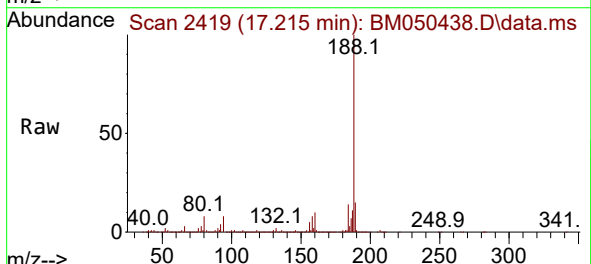
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

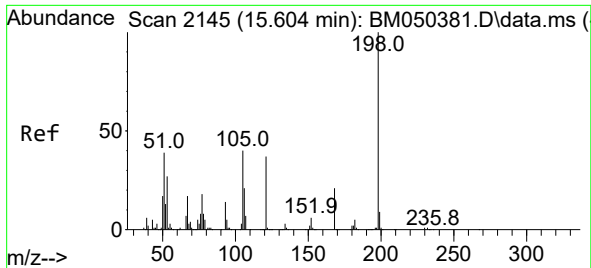
Tgt Ion:138 Resp: 8796
Ion Ratio Lower Upper
138 100
92 7.3 24.5 64.5#
108 5.6 52.5 92.5#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.215 min Scan# 2419
Delta R.T. -0.012 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion:188 Resp: 1993082
Ion Ratio Lower Upper
188 100
94 7.8 6.0 9.0
80 8.5 6.5 9.7

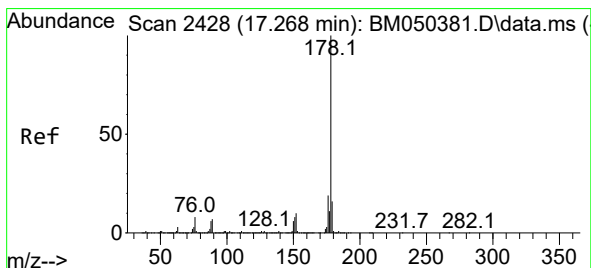
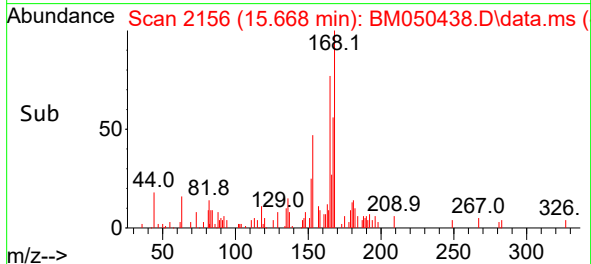
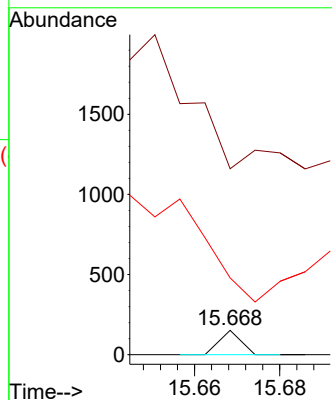
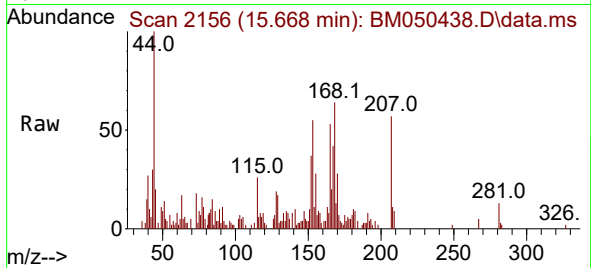




#65
4,6-Dinitro-2-methylphenol
Concen: 6.307 ng
RT: 15.668 min Scan# 2145
Delta R.T. 0.064 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

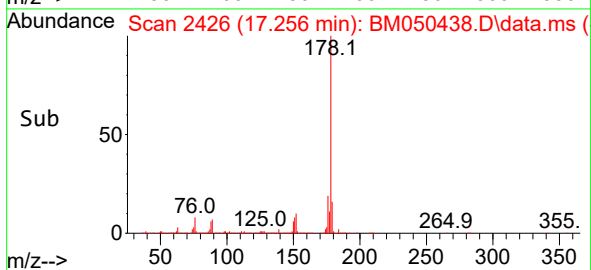
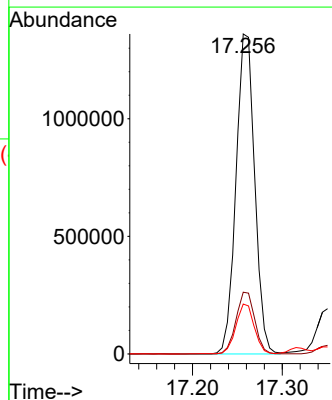
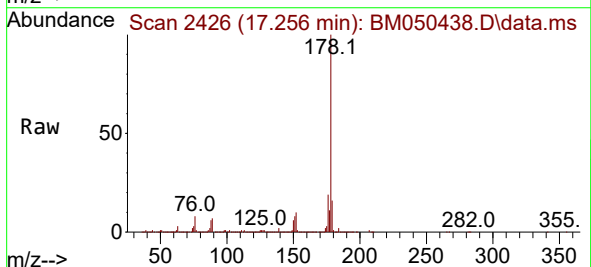
Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

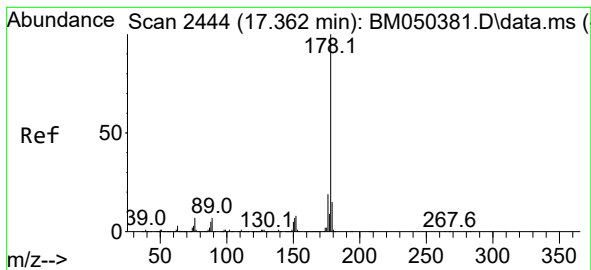
Tgt Ion:198 Resp: 54
Ion Ratio Lower Upper
198 100
51 763.2 26.6 66.6#
105 315.1 20.9 60.9#



#71
Phenanthrene
Concen: 17.458 ng
RT: 17.256 min Scan# 2426
Delta R.T. -0.012 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion:178 Resp: 1968866
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.6 12.5 18.7





#72

Anthracene

Concen: 2.472 ng

RT: 17.351 min Scan# 2444

Delta R.T. -0.012 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

Instrument :

BNA_M

ClientSampleId :

WC-A5-01-C

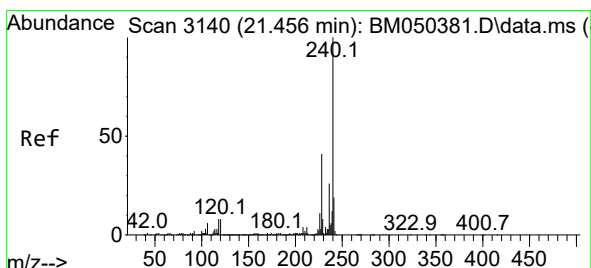
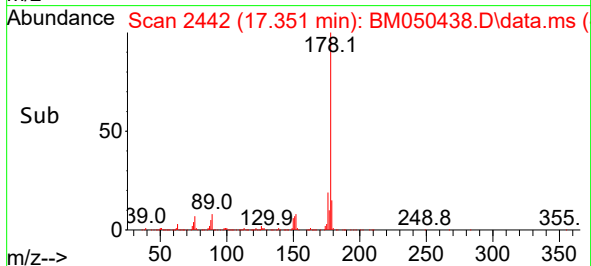
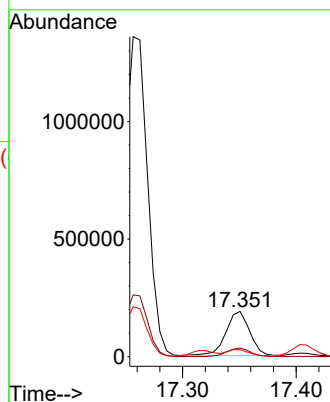
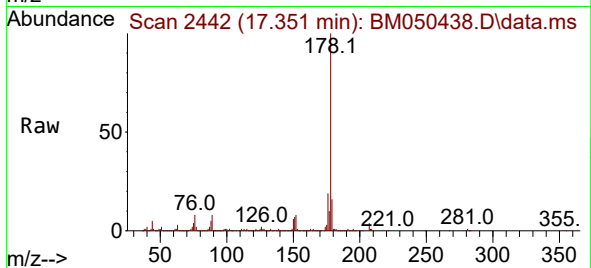
Tgt Ion:178 Resp: 277524

Ion Ratio Lower Upper

178 100

176 19.2 14.9 22.3

179 15.7 12.2 18.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.439 min Scan# 3137

Delta R.T. -0.018 min

Lab File: BM050438.D

Acq: 14 Jul 2025 22:54

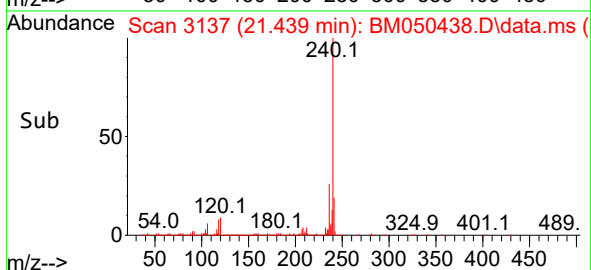
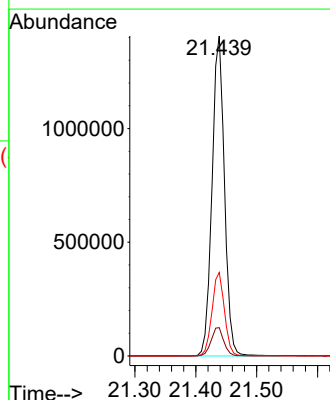
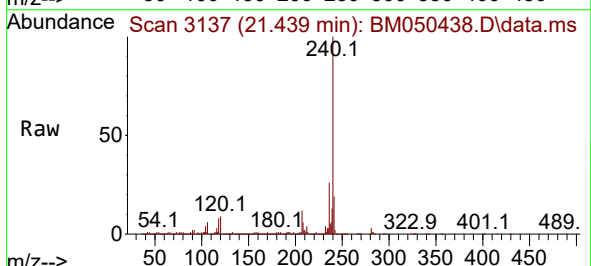
Tgt Ion:240 Resp: 1992538

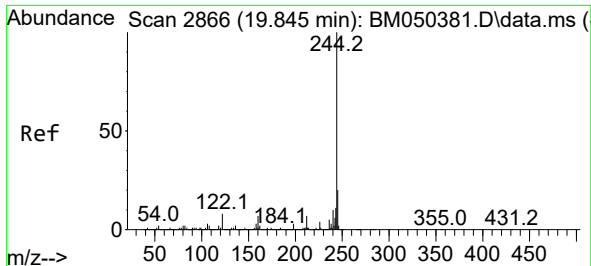
Ion Ratio Lower Upper

240 100

120 8.8 6.7 10.1

236 26.1 20.7 31.1

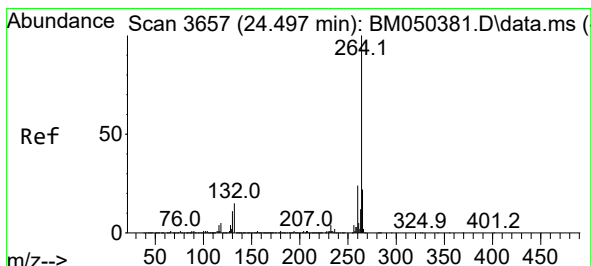
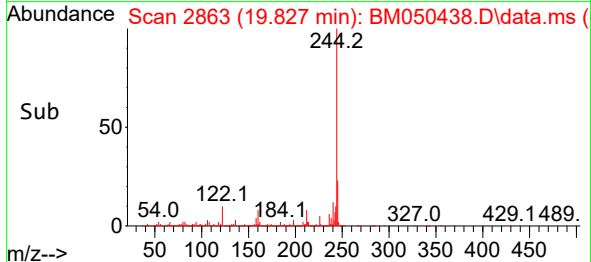
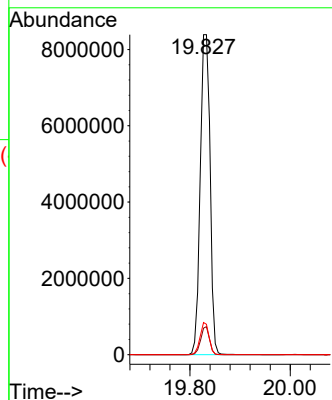
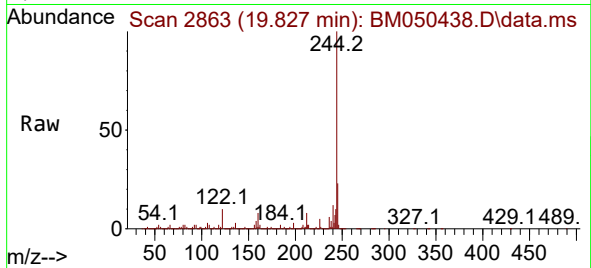




#79
Terphenyl-d14
Concen: 100.361 ng
RT: 19.827 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Instrument :
BNA_M
ClientSampleId :
WC-A5-01-C

Tgt Ion:244 Resp:11365563
Ion Ratio Lower Upper
244 100
212 8.3 5.7 8.5
122 10.1 6.2 9.2#



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.468 min Scan# 3652
Delta R.T. -0.029 min
Lab File: BM050438.D
Acq: 14 Jul 2025 22:54

Tgt Ion:264 Resp: 2058330
Ion Ratio Lower Upper
264 100
260 23.1 19.2 28.8
265 21.4 17.8 26.6

