

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041425\
 Data File : BM049923.D
 Acq On : 14 Apr 2025 21:04
 Operator : RC/JU
 Sample : Q1784-01 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-01-41125

Quant Time: Apr 15 01:04:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

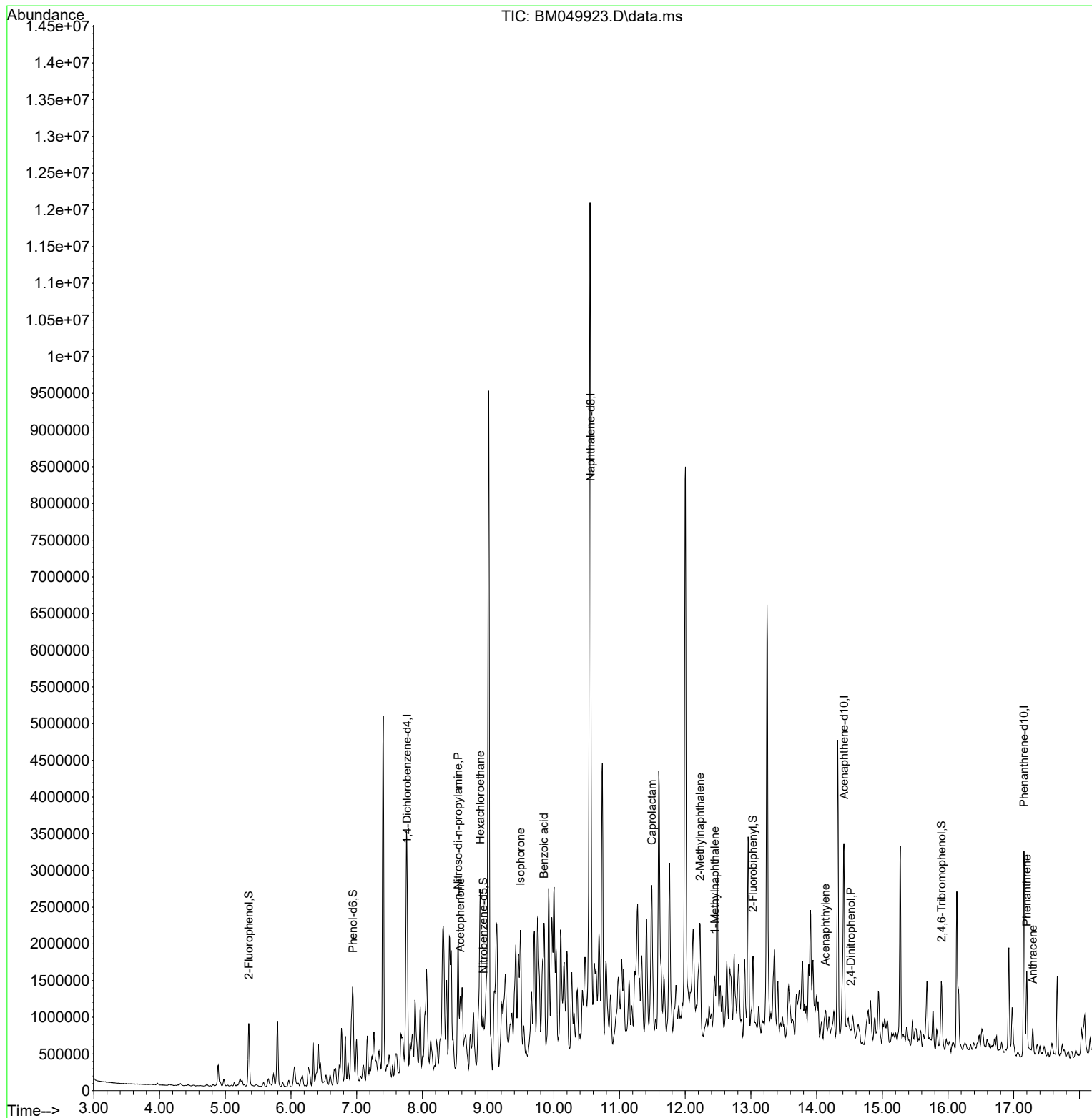
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	407322	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1300074	20.000	ng	#-0.01
39) Acenaphthene-d10	14.416	164	850227	20.000	ng	0.00
64) Phenanthrene-d10	17.157	188	1654315	20.000	ng	0.00
76) Chrysene-d12	21.392	240	1672698	20.000	ng	-0.01
86) Perylene-d12	24.391	264	1899381	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	332502	13.862	ng	0.00
7) Phenol-d6	6.946	99	392410	13.148	ng	0.00
23) Nitrobenzene-d5	8.928	82	234248	10.033	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	155466	12.571	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	586050	9.347	ng	-0.01
79) Terphenyl-d14	19.780	244	793141	8.886	ng	-0.01
Target Compounds						Qvalue
18) Hexachloroethane	8.881	117	147031	14.452	ng	# 1
19) n-Nitroso-di-n-propyla...	8.545	70	63503	3.842	ng	# 60
22) Acetophenone	8.575	105	512423	16.218	ng	# 59
25) Isophorone	9.492	82	179203	4.582	ng	# 1
32) Benzoic acid	9.851	122	1233	8.599	ng	# 1
35) Caprolactam	11.492	113	26316	4.088	ng	# 1
37) 2-Methylnaphthalene	12.228	142	301620	6.408	ng	96
38) 1-Methylnaphthalene	12.451	142	233906	5.101	ng	# 97
49) Acenaphthylene	14.133	152	223494	3.089	ng	# 94
54) 2,4-Dinitrophenol	14.522	184	432	7.268	ng	# 1
71) Phenanthrene	17.198	178	706663	7.792	ng	99
72) Anthracene	17.292	178	247254	2.766	ng	99
75) Fluoranthene	19.215	202	1030397	9.240	ng	99
78) Pyrene	19.580	202	1314141	11.400	ng	99
81) Benzo(a)anthracene	21.374	228	613839	5.522	ng	94
83) Chrysene	21.439	228	563934	5.336	ng	95
87) Indeno(1,2,3-cd)pyrene	27.774	276	383634	2.710	ng	98
88) Benzo(b)fluoranthene	23.450	252	665735	5.488	ng	# 93
89) Benzo(k)fluoranthene	23.450	252	665735	5.663	ng	# 92
90) Benzo(a)pyrene	24.250	252	580584	5.447	ng	# 95
92) Benzo(g,h,i)perylene	28.821	276	425129	3.567	ng	94

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041425\
Data File : BM049923.D
Acq On : 14 Apr 2025 21:04
Operator : RC/JU
Sample : Q1784-01 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-01-41125

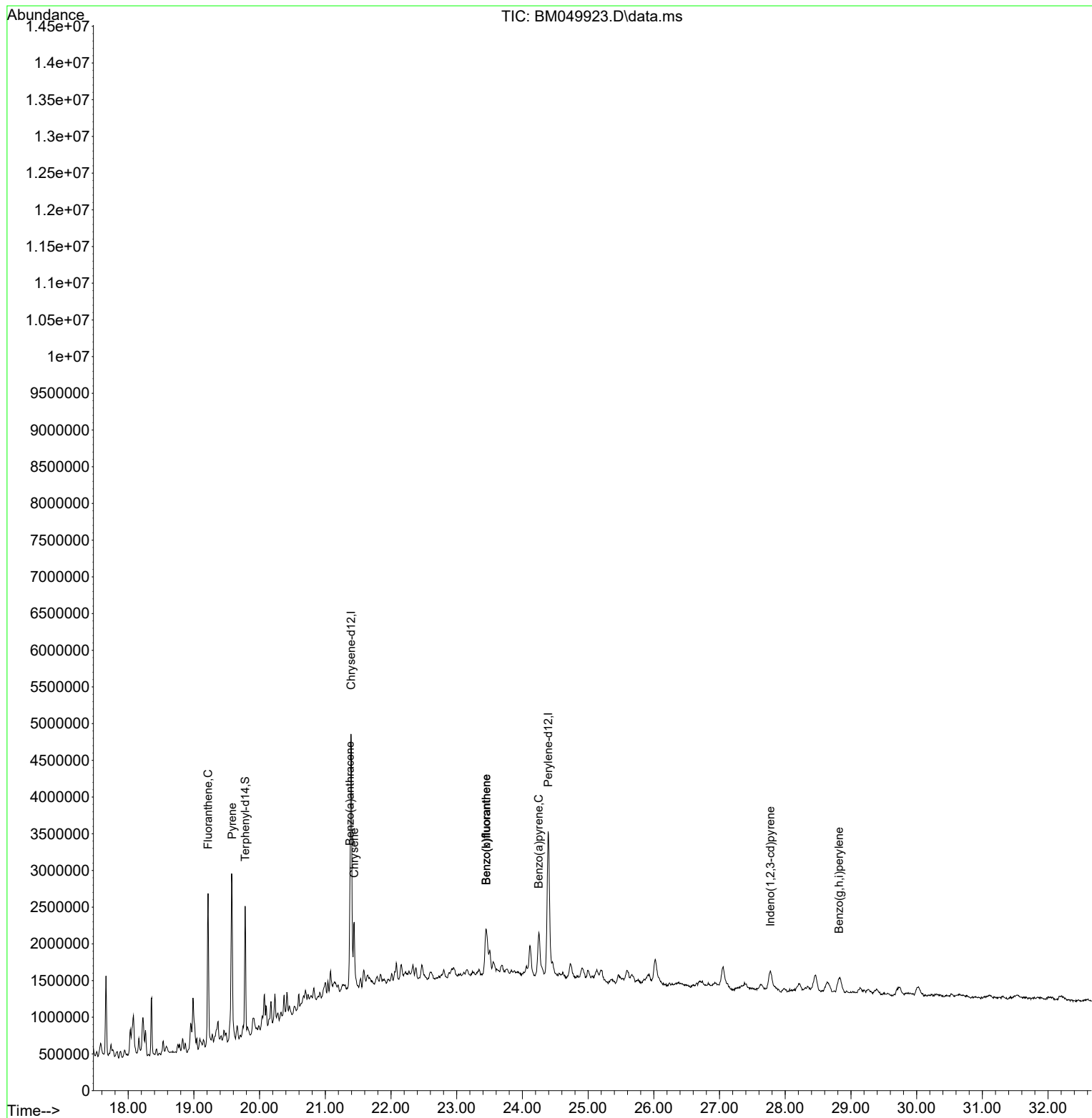
Quant Time: Apr 15 01:04:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041425\
Data File : BM049923.D
Acq On : 14 Apr 2025 21:04
Operator : RC/JU
Sample : Q1784-01 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-01-41125

Quant Time: Apr 15 01:04:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

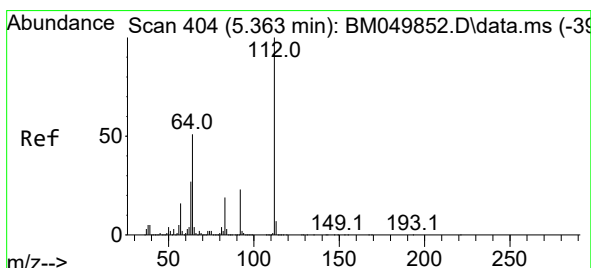
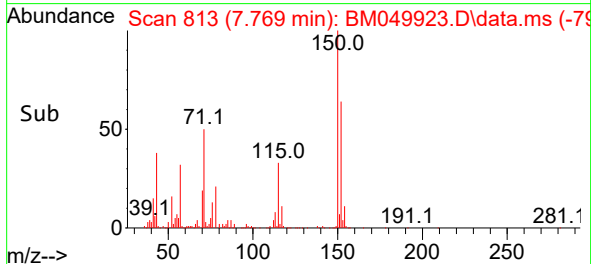
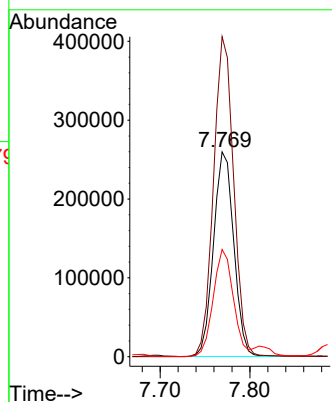
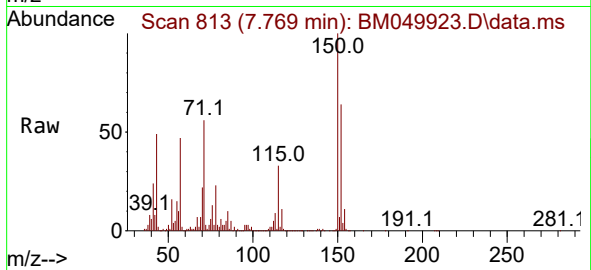




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

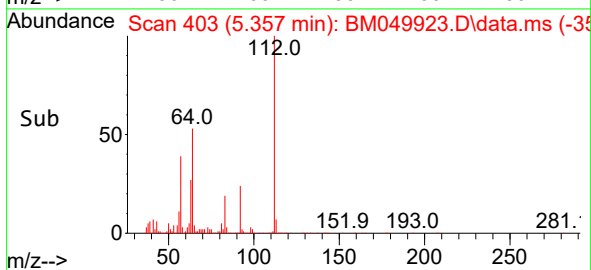
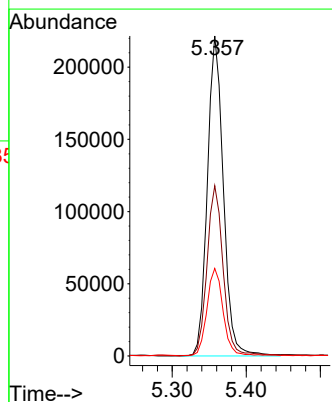
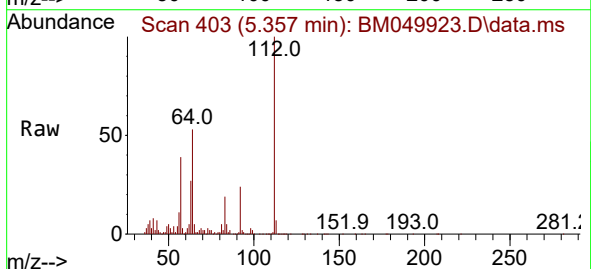
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

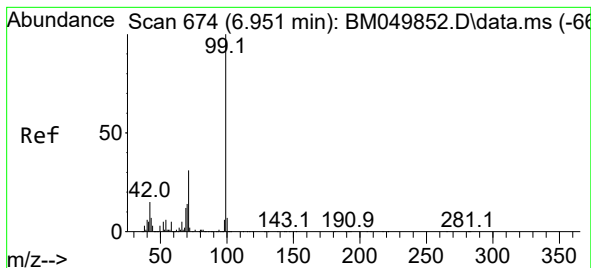
Tgt Ion:152 Resp: 407322
Ion Ratio Lower Upper
152 100
150 156.2 124.3 186.5
115 52.3 41.1 61.7



#5
2-Fluorophenol
Concen: 13.862 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:112 Resp: 332502
Ion Ratio Lower Upper
112 100
64 53.2 41.0 61.6
63 27.4 21.5 32.3

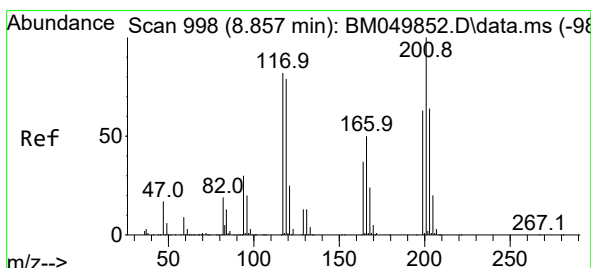
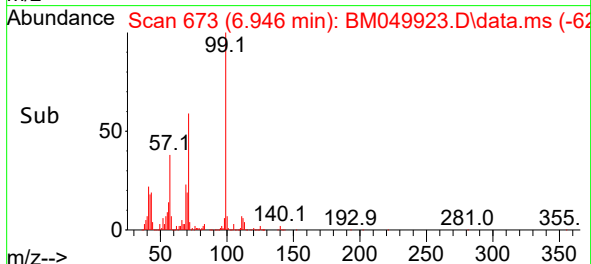
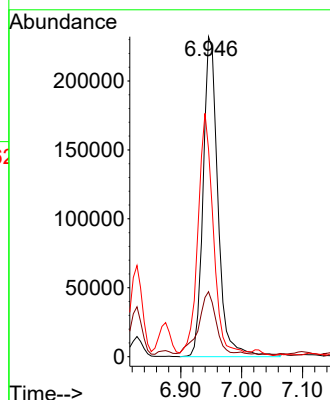
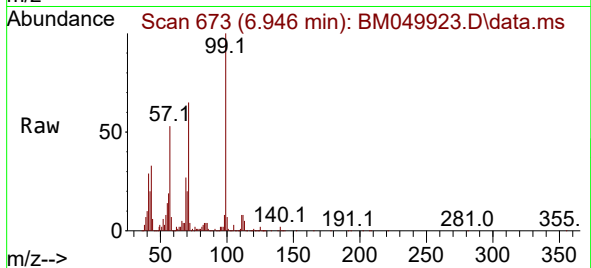




#7
Phenol-d6
Concen: 13.148 ng
RT: 6.946 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

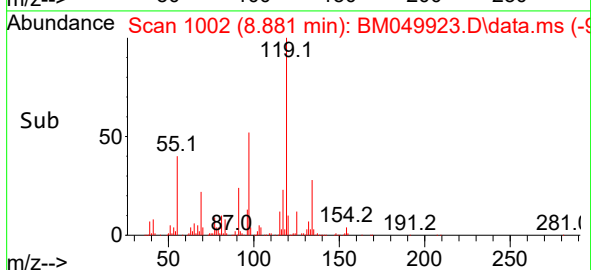
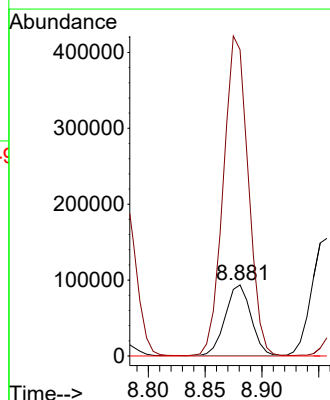
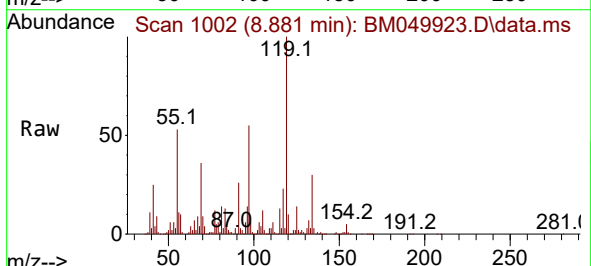
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

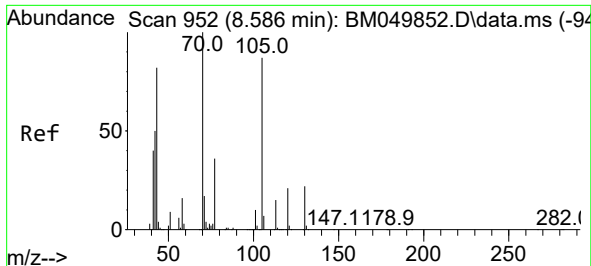
Tgt Ion: 99 Resp: 392410
Ion Ratio Lower Upper
99 100
42 20.3 12.1 18.1#
71 64.9 24.9 37.3#



#18
Hexachloroethane
Concen: 14.452 ng
RT: 8.881 min Scan# 1002
Delta R.T. 0.024 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion: 117 Resp: 147031
Ion Ratio Lower Upper
117 100
119 431.1 77.5 116.3#
201 0.0 97.7 146.5#

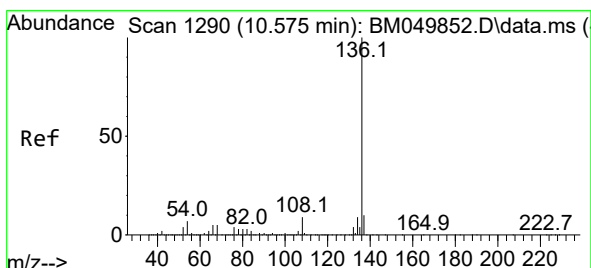
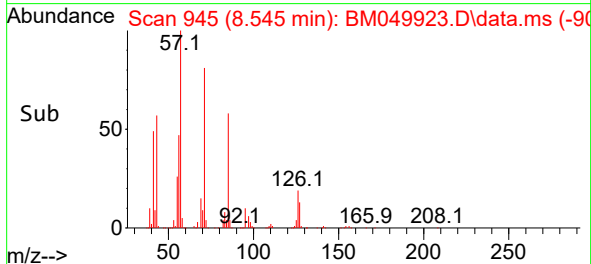
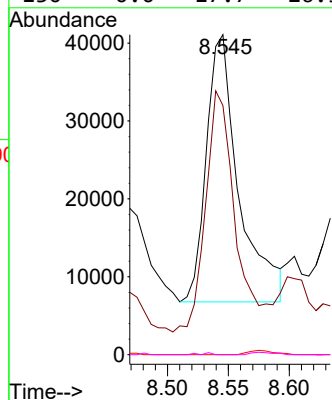
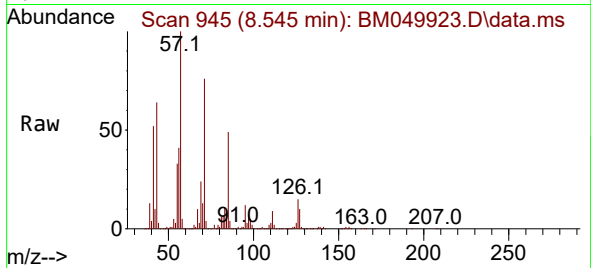




#19
n-Nitroso-di-n-propylamine
Concen: 3.842 ng
RT: 8.545 min Scan# 94
Delta R.T. -0.041 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

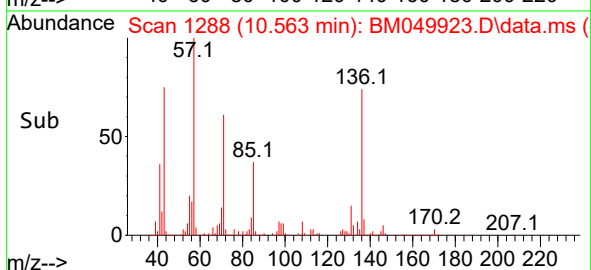
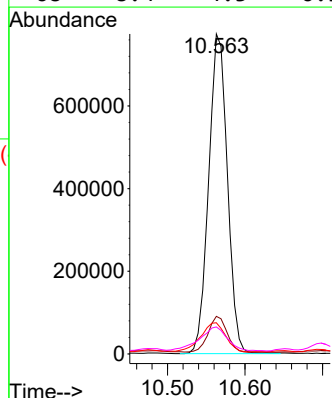
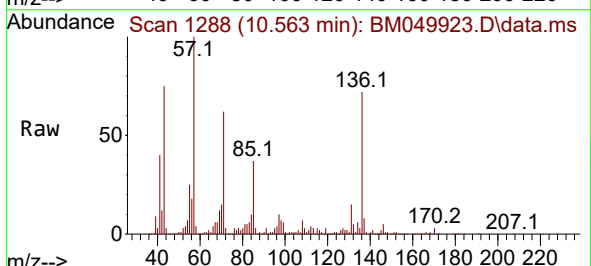
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

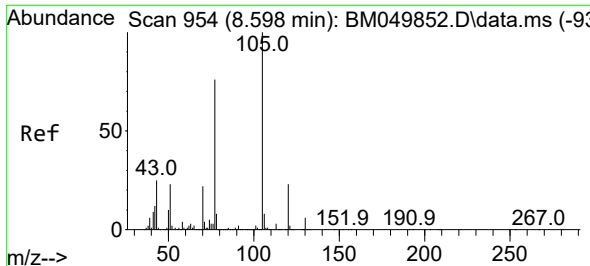
Tgt Ion: 70 Resp: 63503
Ion Ratio Lower Upper
70 100
42 77.9 40.2 60.2#
101 0.0 7.9 11.9#
130 0.0 17.7 26.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion: 136 Resp: 1300074
Ion Ratio Lower Upper
136 100
137 11.8 8.4 12.6
54 9.8 5.3 7.9#
68 8.4 4.3 6.5#

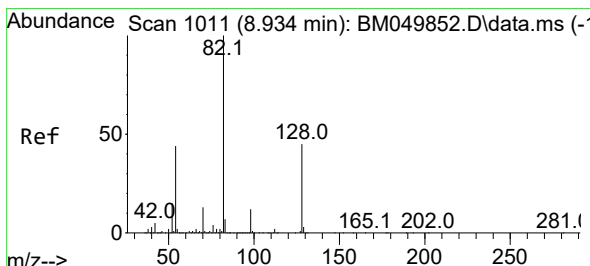
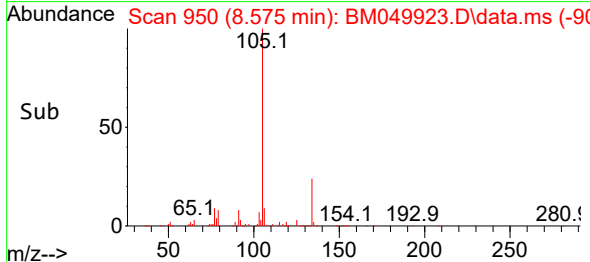
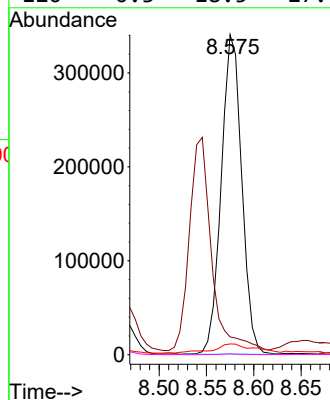
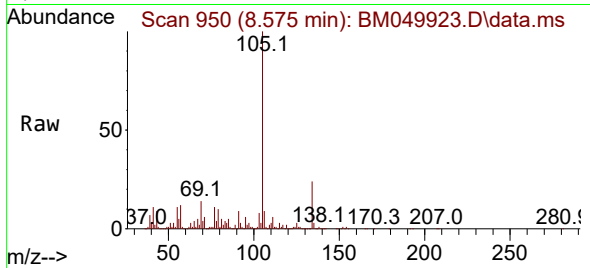




#22
Acetophenone
Concen: 16.218 ng
RT: 8.575 min Scan# 91
Delta R.T. -0.023 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

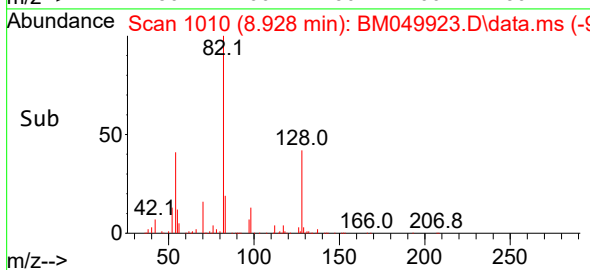
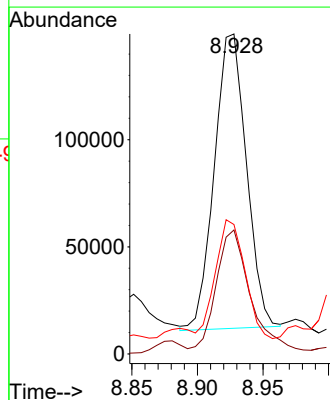
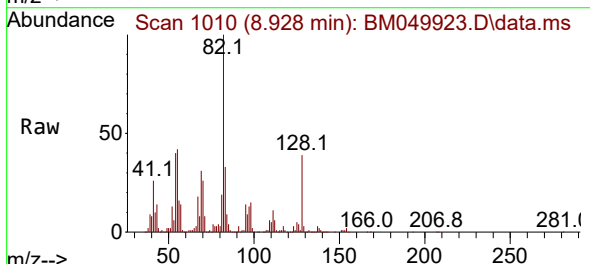
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

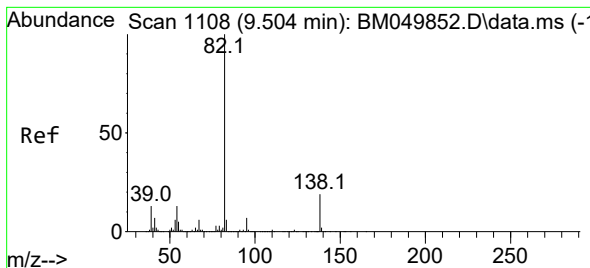
Tgt Ion:105 Resp: 512423
Ion Ratio Lower Upper
105 100
71 5.5 3.0 4.4#
51 3.4 18.6 27.8#
120 0.3 18.5 27.7#



#23
Nitrobenzene-d5
Concen: 10.033 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion: 82 Resp: 234248
Ion Ratio Lower Upper
82 100
128 38.8 36.2 54.2
54 40.4 35.0 52.6





#25

Isophorone

Concen: 4.582 ng

RT: 9.492 min Scan# 1106

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

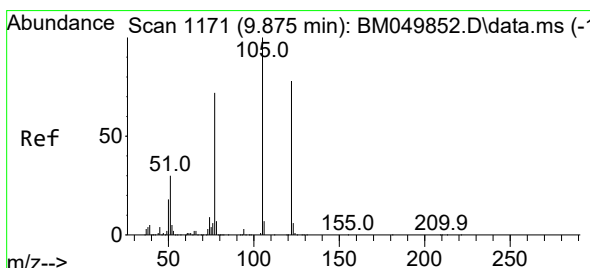
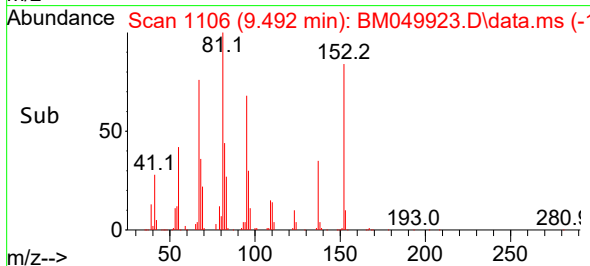
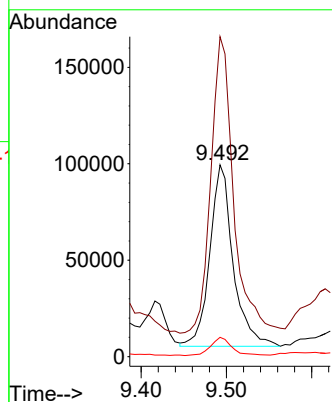
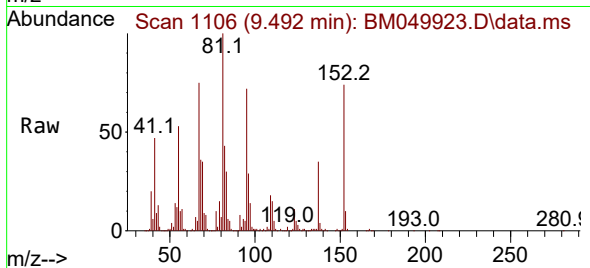
Tgt Ion: 82 Resp: 179203

Ion Ratio Lower Upper

82 100

95 166.8 5.4 8.2#

138 10.1 15.0 22.6#



#32

Benzoic acid

Concen: 8.599 ng

RT: 9.851 min Scan# 1167

Delta R.T. -0.024 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

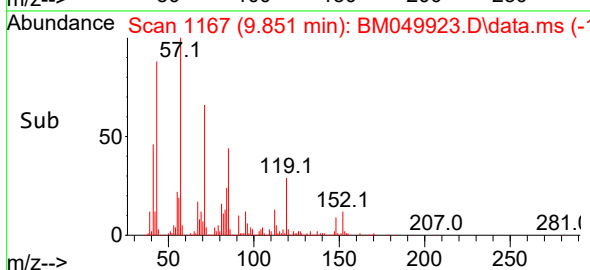
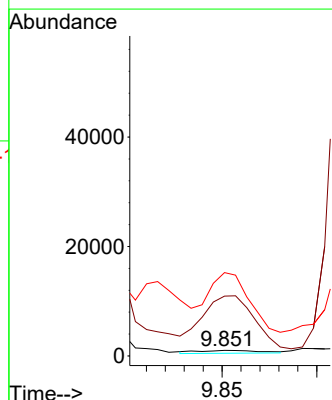
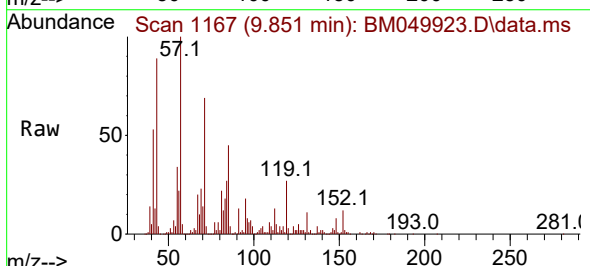
Tgt Ion:122 Resp: 1233

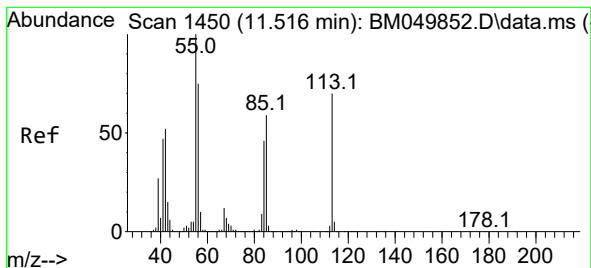
Ion Ratio Lower Upper

122 100

105 1080.4 103.8 143.8#

77 1505.7 70.7 110.7#

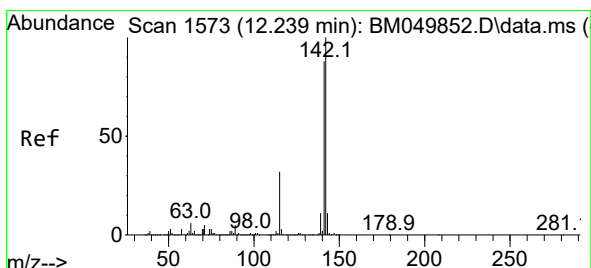
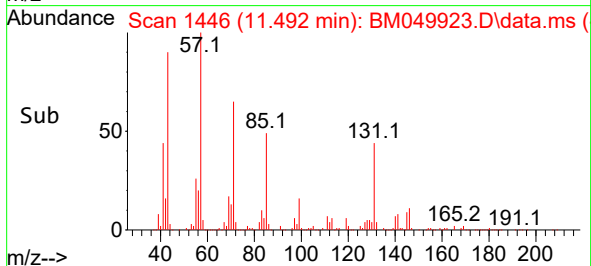
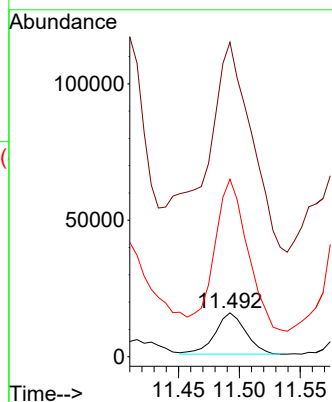
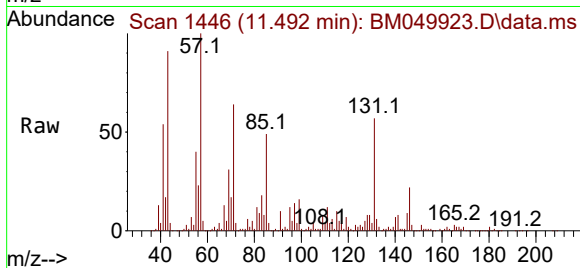




#35
Caprolactam
Concen: 4.088 ng
RT: 11.492 min Scan# 1450
Delta R.T. -0.023 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

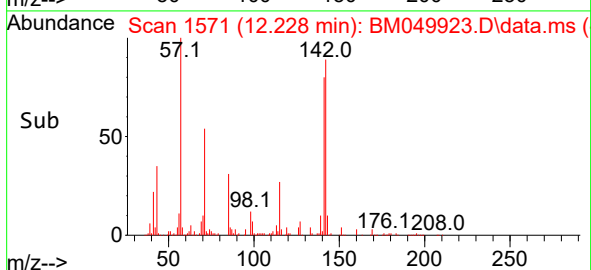
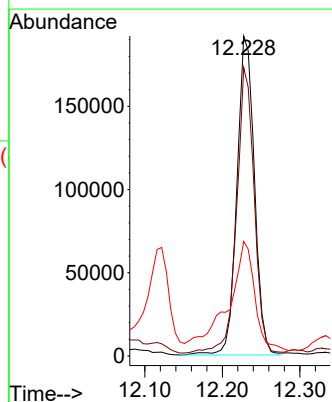
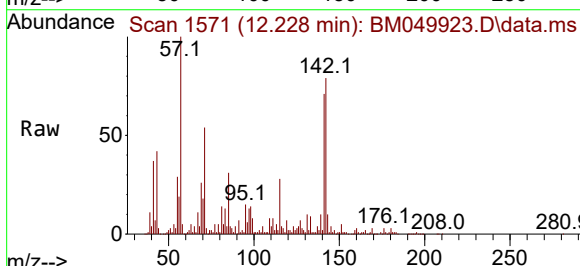
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

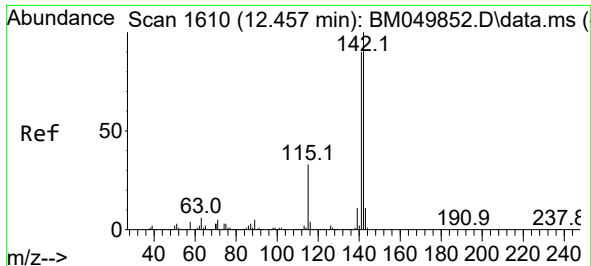
Tgt Ion:113 Resp: 26316
Ion Ratio Lower Upper
113 100
55 718.3 124.3 164.3#
56 405.3 87.5 127.5#



#37
2-Methylnaphthalene
Concen: 6.408 ng
RT: 12.228 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:142 Resp: 301620
Ion Ratio Lower Upper
142 100
141 90.1 70.2 105.2
115 35.8 25.4 38.2

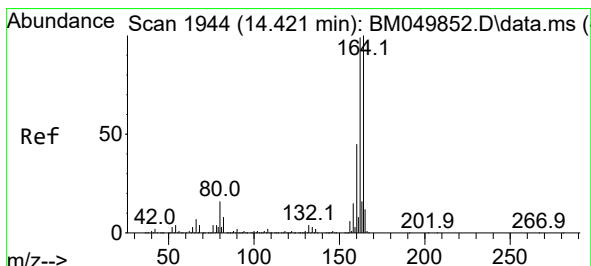
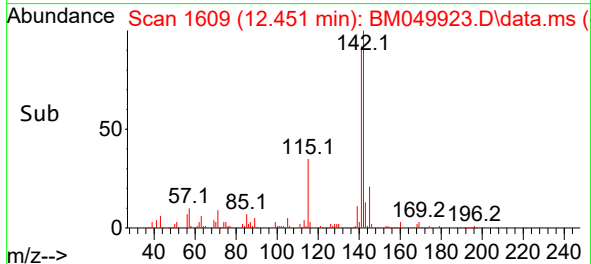
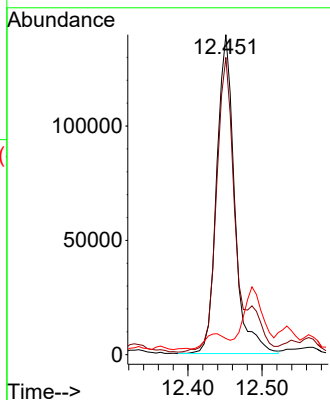
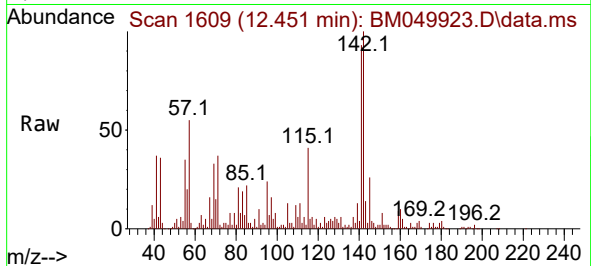




#38
1-Methylnaphthalene
Concen: 5.101 ng
RT: 12.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

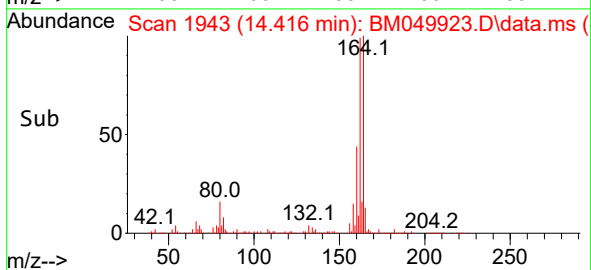
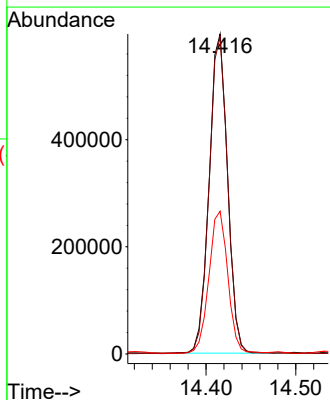
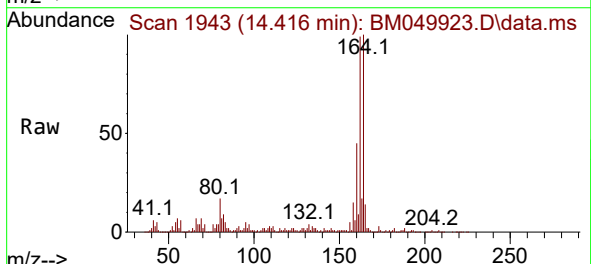
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

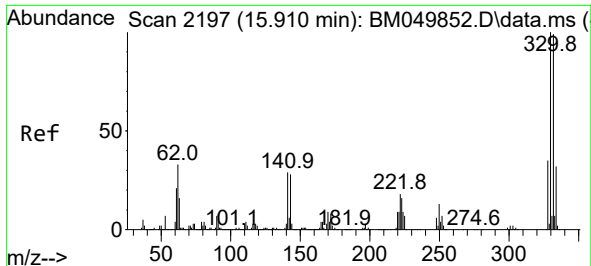
Tgt Ion:142 Resp: 233906
Ion Ratio Lower Upper
142 100
141 92.9 72.2 108.2
116 5.0 2.9 4.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:164 Resp: 850227
Ion Ratio Lower Upper
164 100
162 99.1 79.4 119.0
160 44.6 36.2 54.2

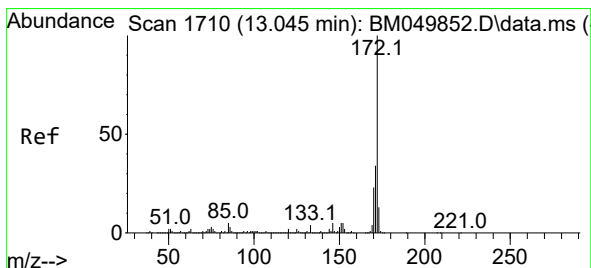
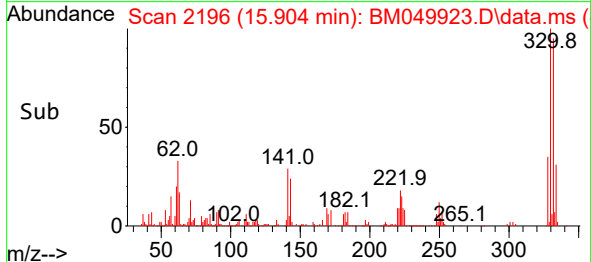
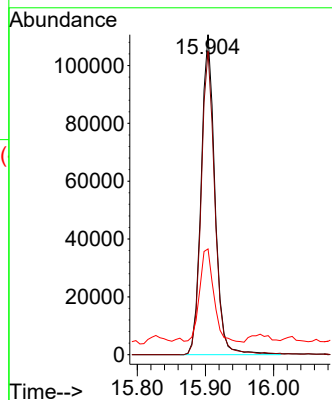
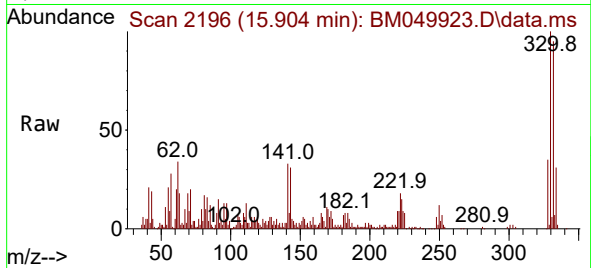




#42
2,4,6-Tribromophenol
Concen: 12.571 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

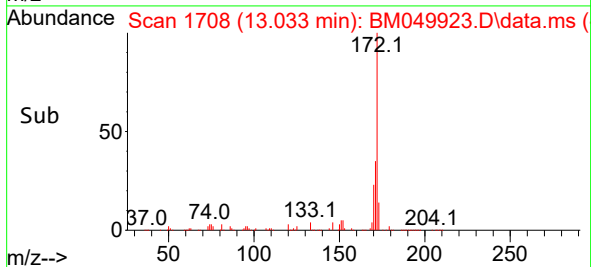
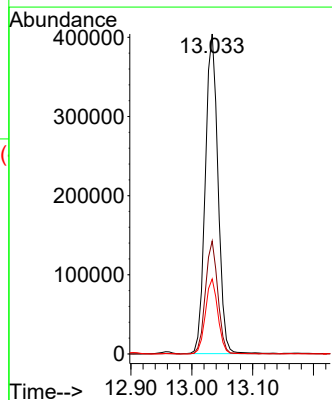
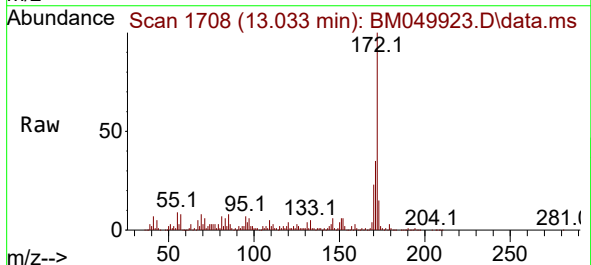
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

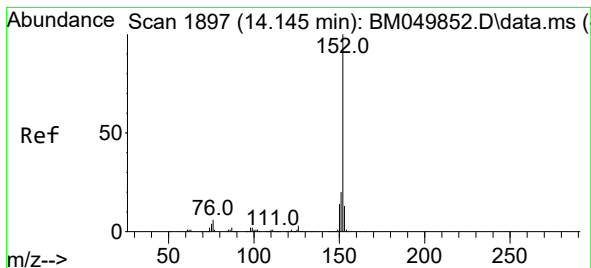
Tgt Ion:330 Resp: 155466
Ion Ratio Lower Upper
330 100
332 93.9 78.0 117.0
141 30.1 23.5 35.3



#45
2-Fluorobiphenyl
Concen: 9.347 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:172 Resp: 586050
Ion Ratio Lower Upper
172 100
171 35.3 27.4 41.2
170 23.4 18.6 28.0





#49

Acenaphthylene

Concen: 3.089 ng

RT: 14.133 min Scan# 1895

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

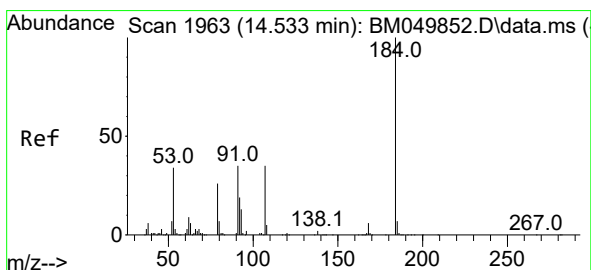
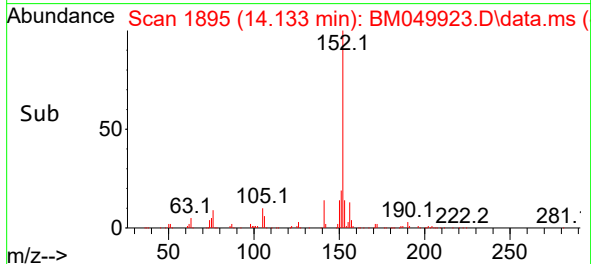
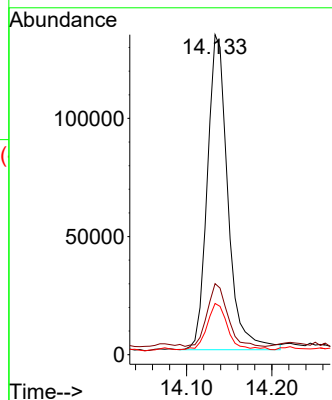
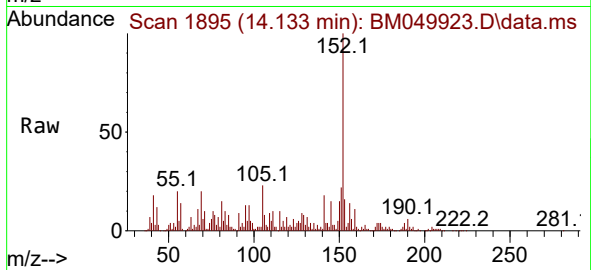
Tgt Ion:152 Resp: 223494

Ion Ratio Lower Upper

152 100

151 22.2 15.7 23.5

153 16.0 10.4 15.6#



#54

2,4-Dinitrophenol

Concen: 7.268 ng

RT: 14.522 min Scan# 1961

Delta R.T. -0.011 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

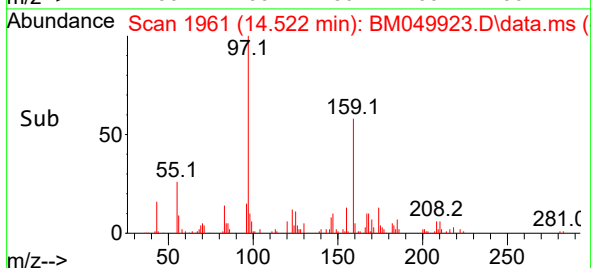
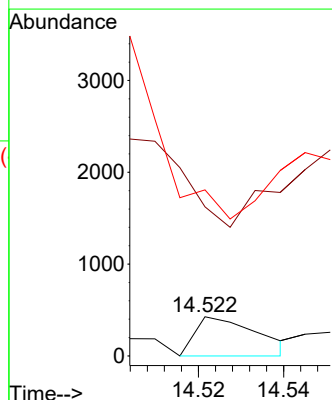
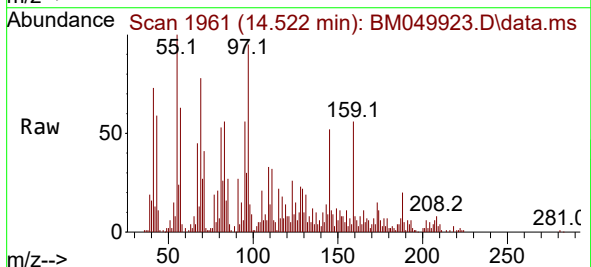
Tgt Ion:184 Resp: 432

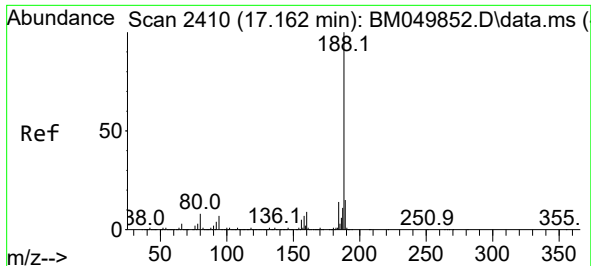
Ion Ratio Lower Upper

184 100

63 381.2 38.4 57.6#

154 424.4 48.1 72.1#

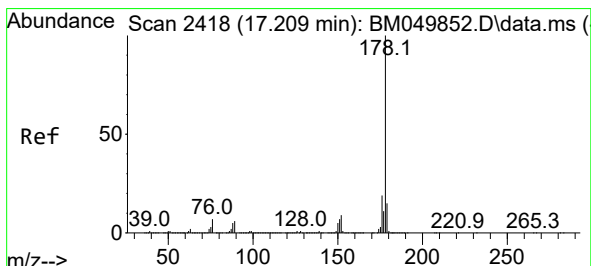
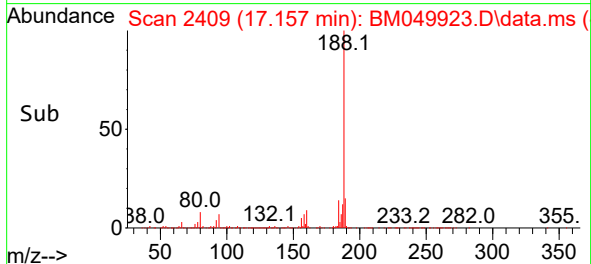
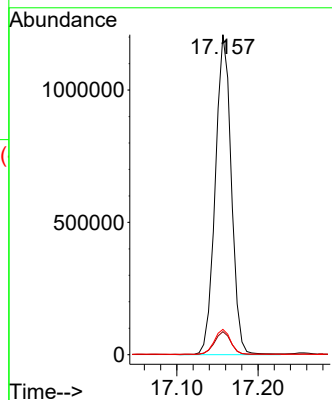
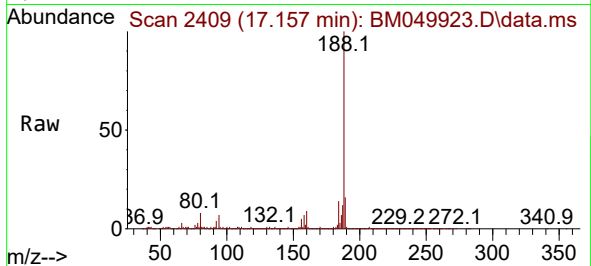




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

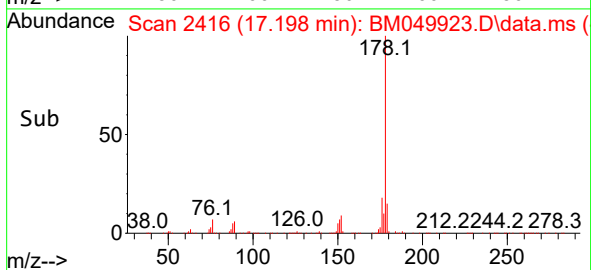
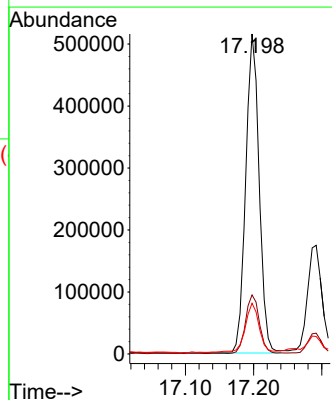
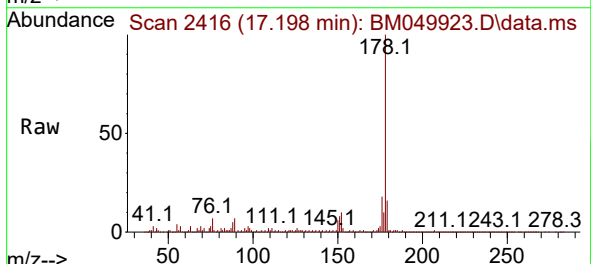
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

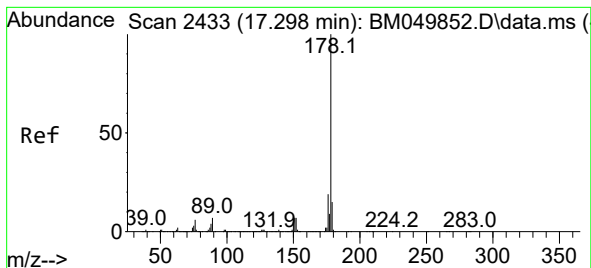
Tgt Ion:188 Resp: 1654315
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.9 6.4 9.6



#71
Phenanthrene
Concen: 7.792 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:178 Resp: 706663
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 15.8 12.3 18.5





#72

Anthracene

Concen: 2.766 ng

RT: 17.292 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

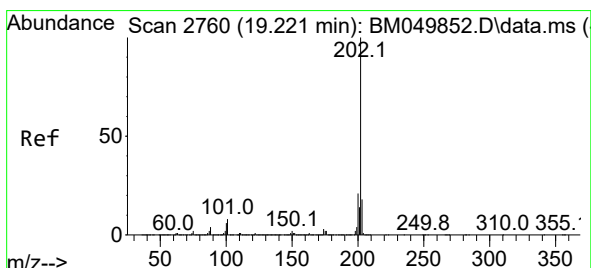
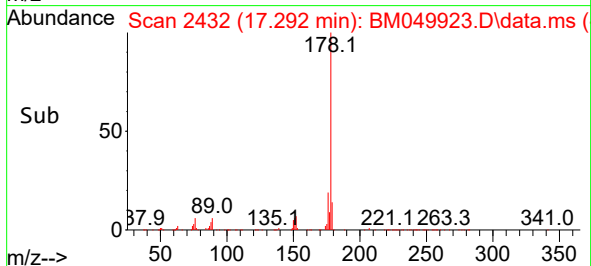
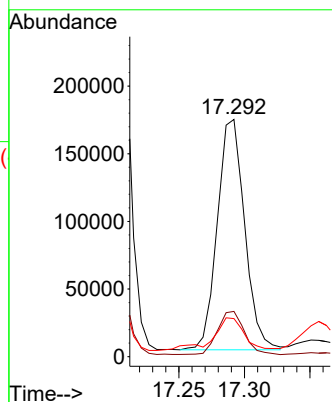
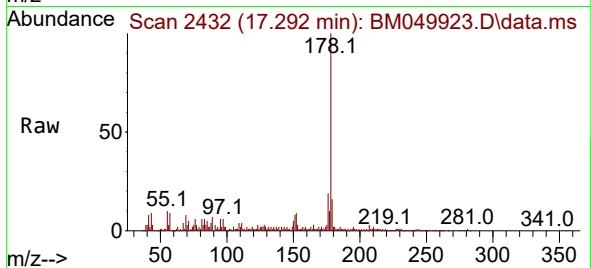
Tgt Ion:178 Resp: 247254

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 16.1 12.4 18.6



#75

Fluoranthene

Concen: 9.240 ng

RT: 19.215 min Scan# 2759

Delta R.T. -0.006 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

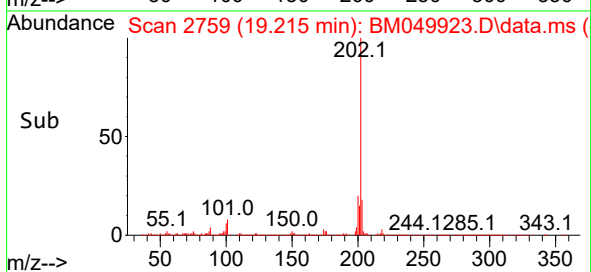
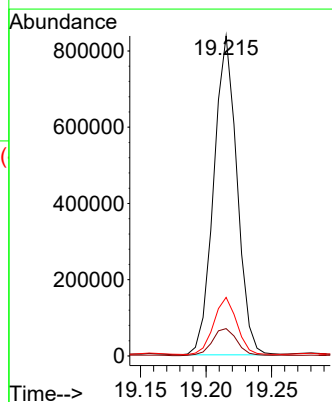
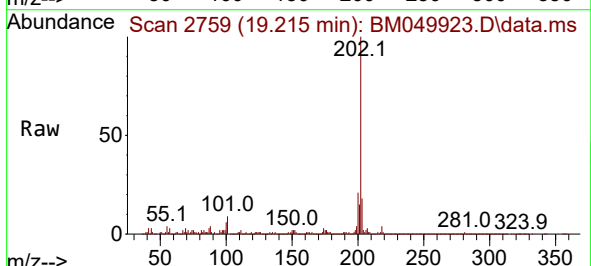
Tgt Ion:202 Resp: 1030397

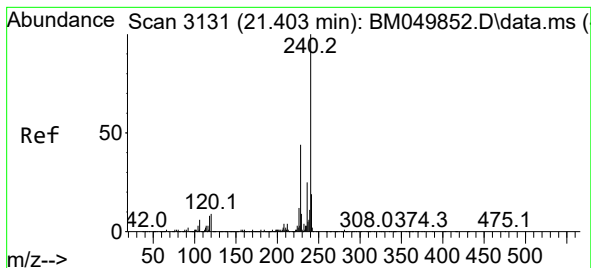
Ion Ratio Lower Upper

202 100

101 8.6 0.0 28.4

203 18.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.392 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

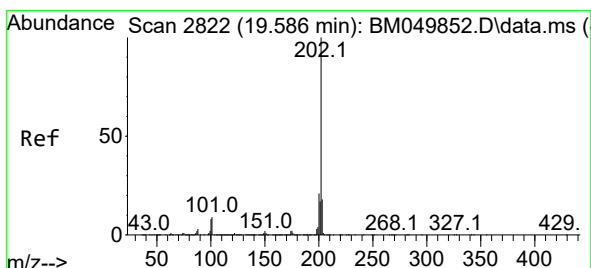
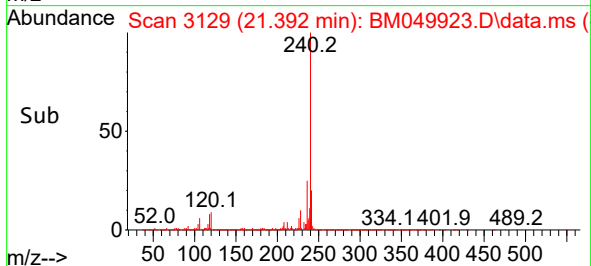
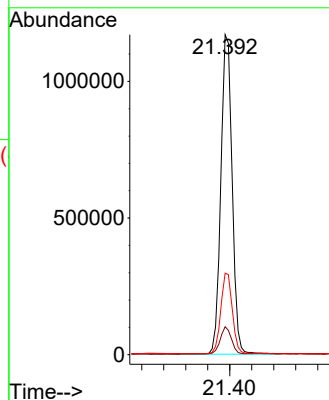
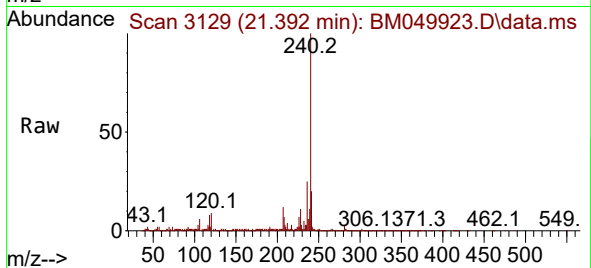
Tgt Ion:240 Resp: 1672698

Ion Ratio Lower Upper

240 100

120 8.7 6.9 10.3

236 25.5 20.4 30.6



#78

Pyrene

Concen: 11.400 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

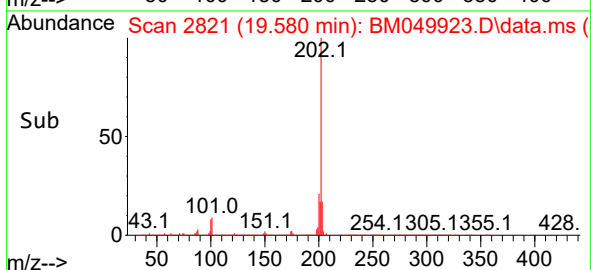
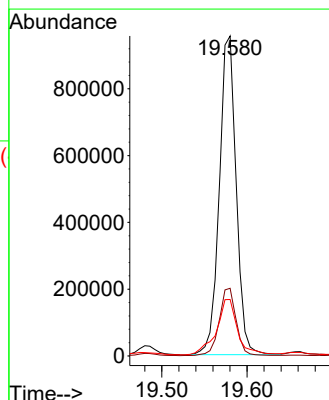
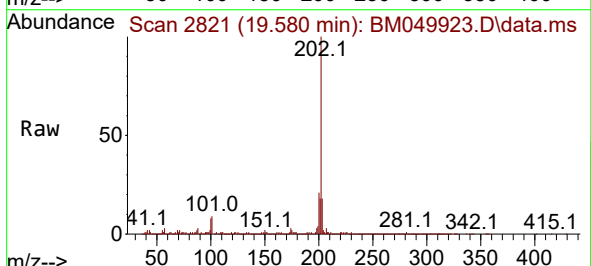
Tgt Ion:202 Resp: 1314141

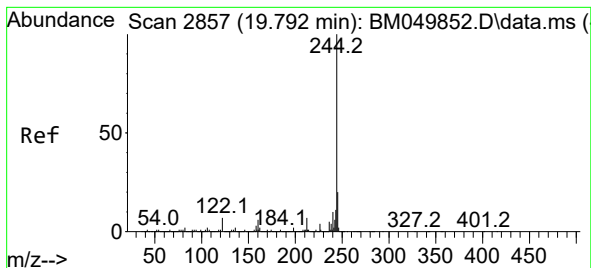
Ion Ratio Lower Upper

202 100

200 21.1 16.5 24.7

203 17.7 14.0 21.0





#79

Terphenyl-d14

Concen: 8.886 ng

RT: 19.780 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

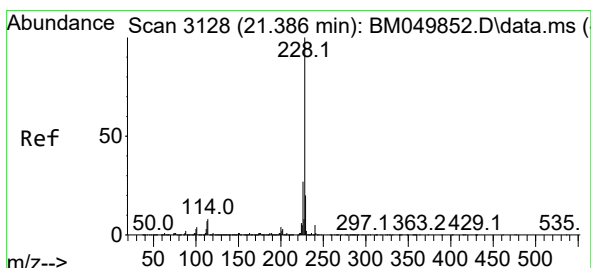
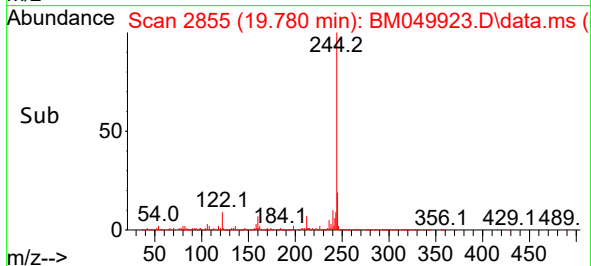
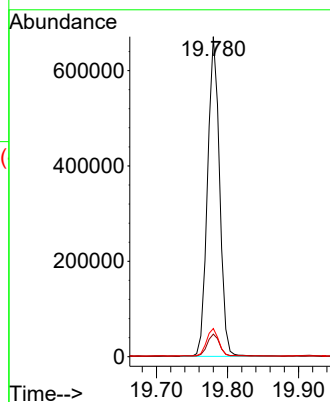
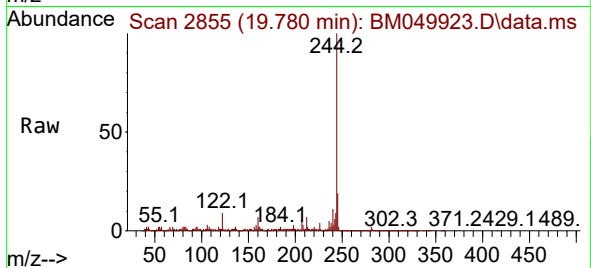
Tgt Ion:244 Resp: 793141

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 8.8 5.4 8.0#



#81

Benzo(a)anthracene

Concen: 5.522 ng

RT: 21.374 min Scan# 3126

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

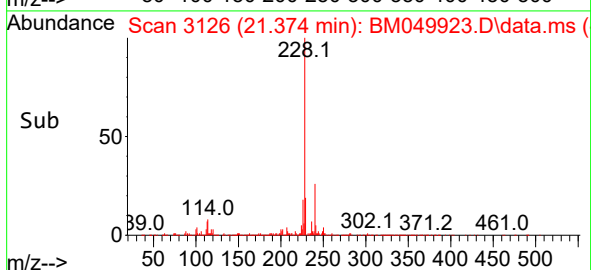
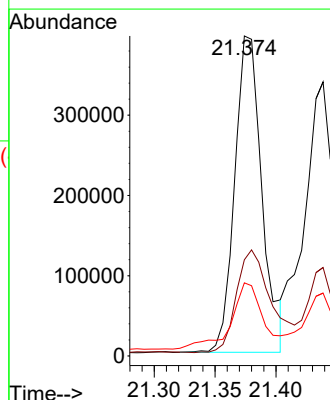
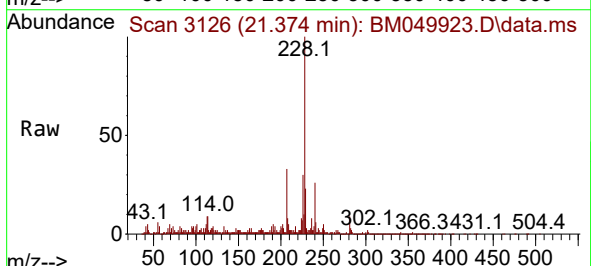
Tgt Ion:228 Resp: 613839

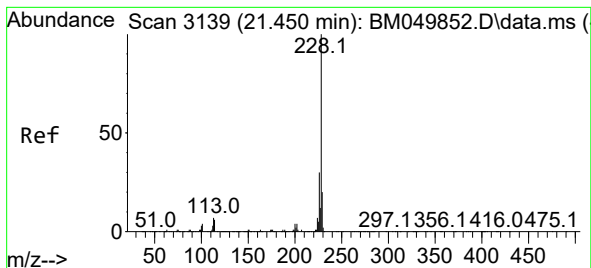
Ion Ratio Lower Upper

228 100

226 30.0 21.8 32.8

229 22.8 15.8 23.8





#83

Chrysene

Concen: 5.336 ng

RT: 21.439 min Scan# 3139

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

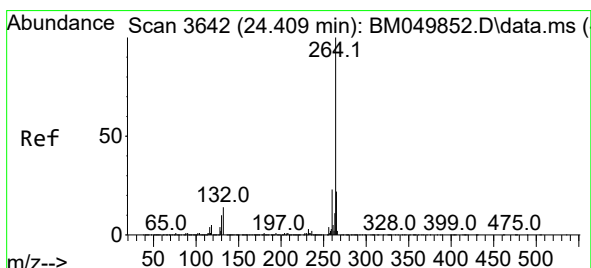
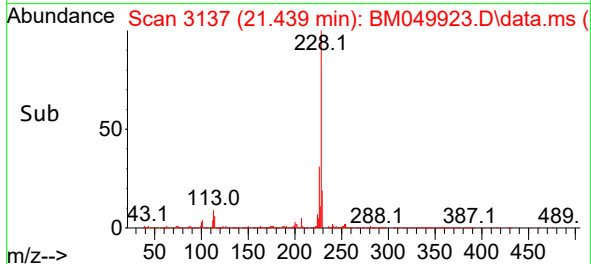
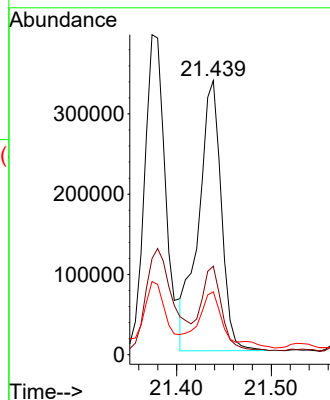
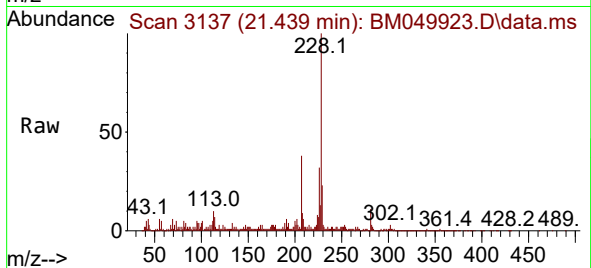
Tgt Ion:228 Resp: 563934

Ion Ratio Lower Upper

228 100

226 32.3 24.1 36.1

229 23.0 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.391 min Scan# 3639

Delta R.T. -0.018 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

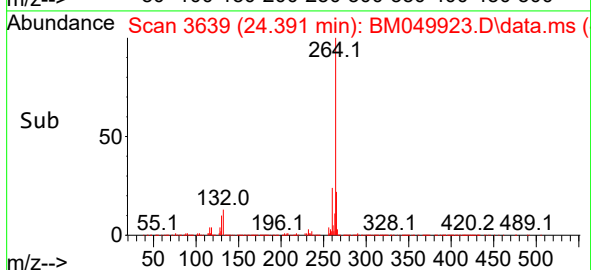
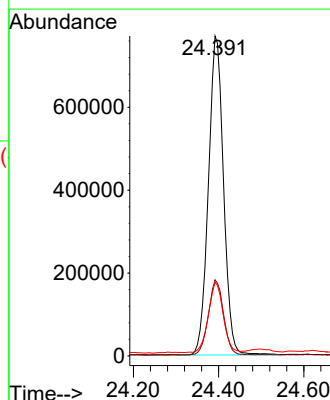
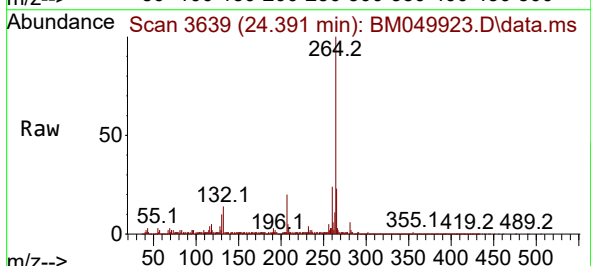
Tgt Ion:264 Resp: 1899381

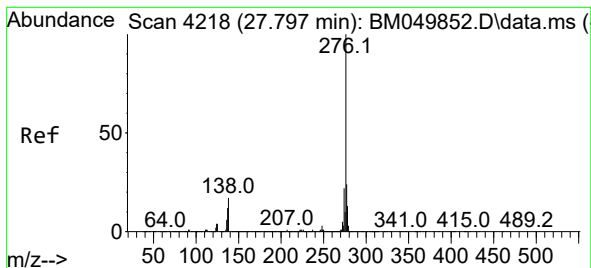
Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 23.1 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.710 ng

RT: 27.774 min Scan# 41

Delta R.T. -0.023 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

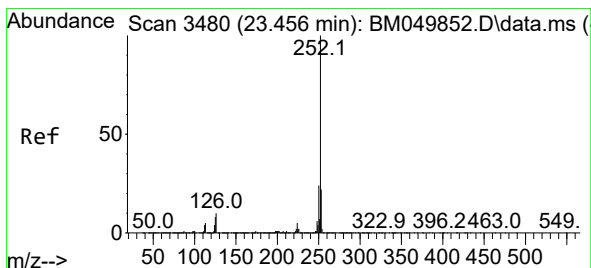
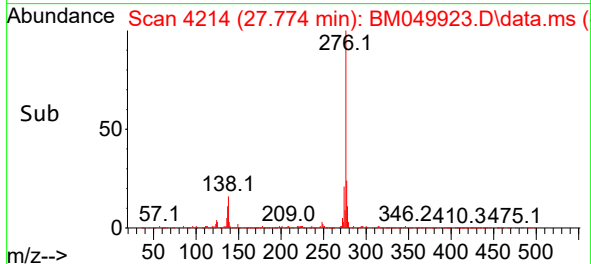
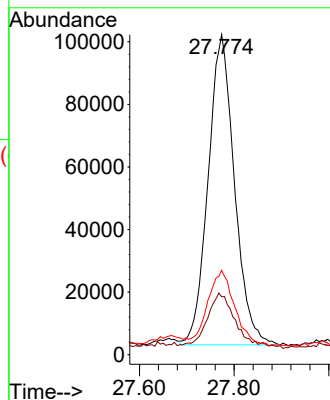
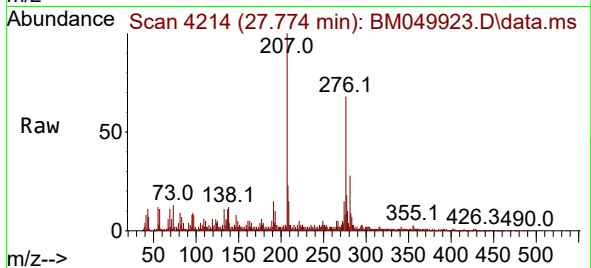
Tgt Ion:276 Resp: 383634

Ion Ratio Lower Upper

276 100

138 18.9 16.8 25.2

277 25.2 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 5.488 ng

RT: 23.450 min Scan# 3479

Delta R.T. -0.006 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

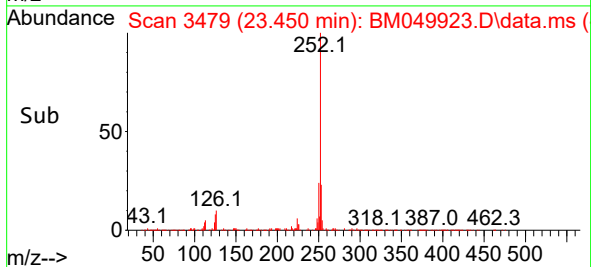
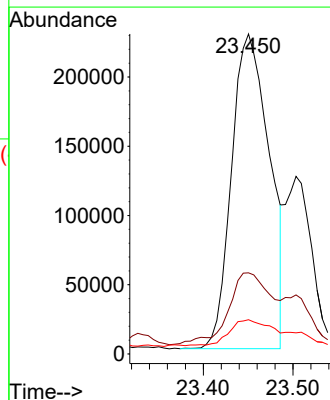
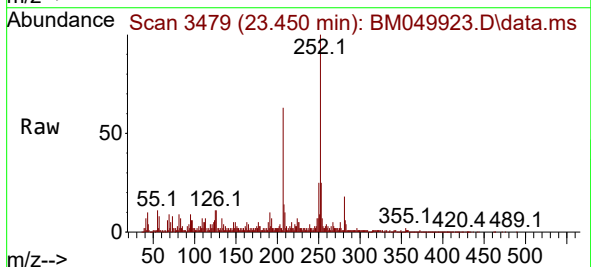
Tgt Ion:252 Resp: 665735

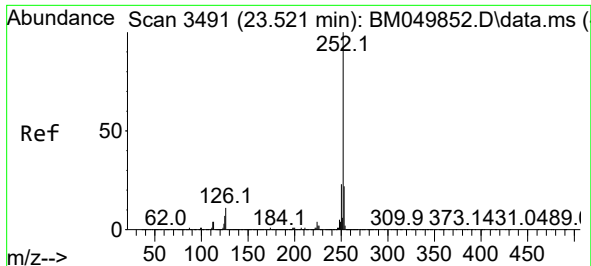
Ion Ratio Lower Upper

252 100

253 25.3 17.5 26.3

125 10.7 6.2 9.4#

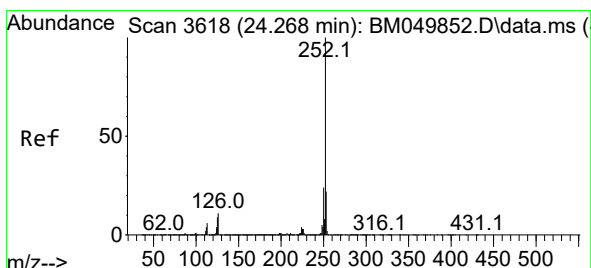
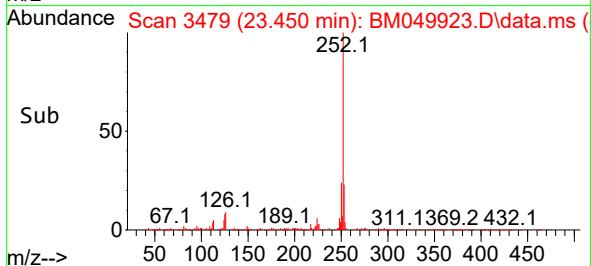
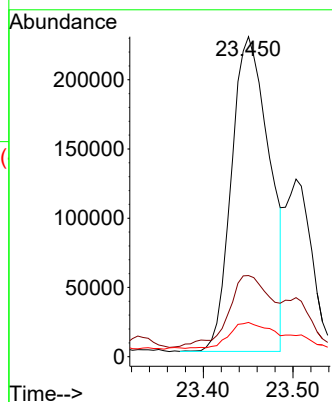
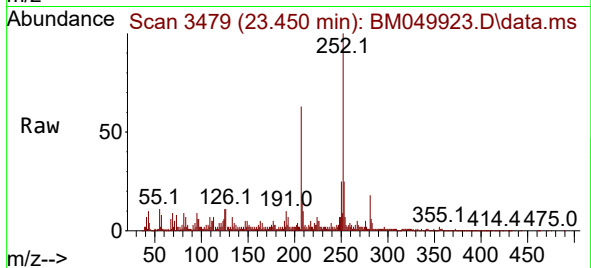




#89
Benzo(k)fluoranthene
Concen: 5.663 ng
RT: 23.450 min Scan# 3491
Delta R.T. -0.070 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

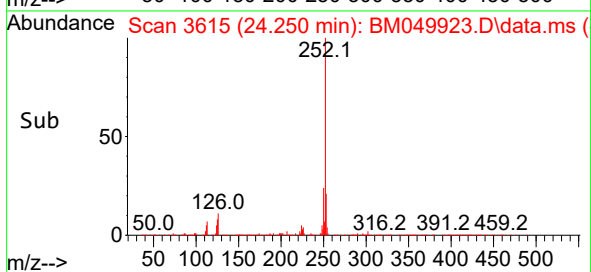
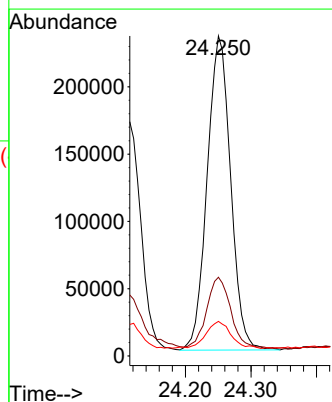
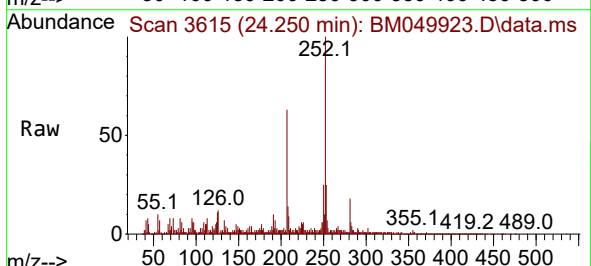
Instrument :
BNA_M
ClientSampleId :
OR-01-41125

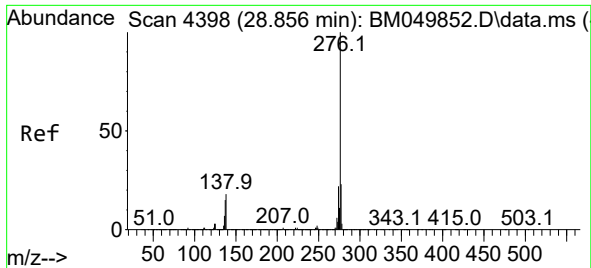
Tgt Ion:252 Resp: 665735
Ion Ratio Lower Upper
252 100
253 25.3 17.4 26.2
125 10.7 5.8 8.8#



#90
Benzo(a)pyrene
Concen: 5.447 ng
RT: 24.250 min Scan# 3615
Delta R.T. -0.018 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

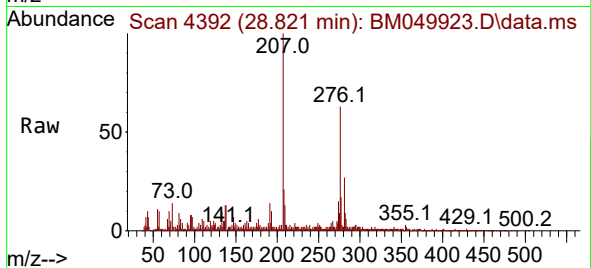
Tgt Ion:252 Resp: 580584
Ion Ratio Lower Upper
252 100
253 24.6 17.8 26.8
125 10.8 7.0 10.4#





#92
 Benzo(g,h,i)perylene
 Concen: 3.567 ng
 RT: 28.821 min Scan# 41
 Delta R.T. -0.035 min
 Lab File: BM049923.D
 Acq: 14 Apr 2025 21:04

Instrument :
 BNA_M
 ClientSampleId :
 OR-01-41125



Tgt Ion:	276	Resp:	425129
Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.7	28.1
138	20.6	14.6	21.8

