

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP120325\
 Data File : BP026235.D
 Acq On : 03 Dec 2025 20:24
 Operator : RC/JU
 Sample : Q3741-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 B50-SP4-112525

Quant Time: Dec 04 00:06:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP111825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 19 01:25:31 2025
 Response via : Initial Calibration

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

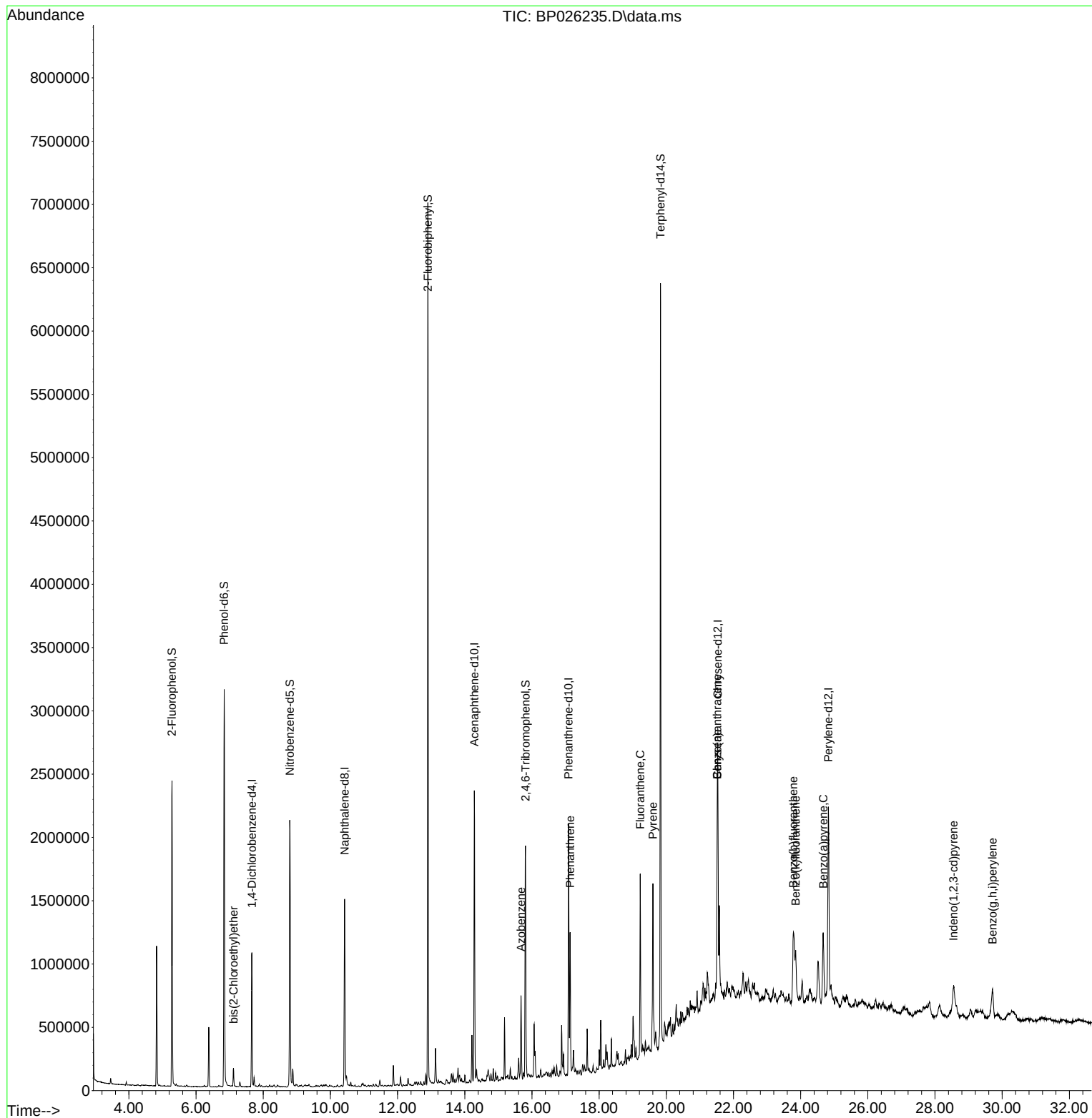
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.661	152	316661	20.000	ng	-0.01
21) Naphthalene-d8	10.425	136	1283087	20.000	ng	-0.02
39) Acenaphthene-d10	14.284	164	788396	20.000	ng	-0.04
64) Phenanthrene-d10	17.089	188	1231674	20.000	ng	-0.04
76) Chrysene-d12	21.530	240	1204285	20.000	ng	-0.04
86) Perylene-d12	24.824	264	1573376	20.000	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.284	112	1115841	56.560	ng	0.00
7) Phenol-d6	6.837	99	1922623	76.550	ng	-0.02
23) Nitrobenzene-d5	8.790	82	1210164	53.574	ng	-0.02
42) 2,4,6-Tribromophenol	15.807	330	424939	41.549	ng	-0.03
45) 2-Fluorobiphenyl	12.901	172	3171234	58.952	ng	-0.03
79) Terphenyl-d14	19.825	244	3162222	53.542	ng	-0.05
Target Compounds						
						Qvalue
11) bis(2-Chloroethyl)ether	7.114	93	52987	2.501	ng	# 23
63) Azobenzene	15.672	77	179629	3.591	ng	# 1
71) Phenanthrene	17.137	178	756617	10.905	ng	100
75) Fluoranthene	19.225	202	922915	10.948	ng	98
78) Pyrene	19.601	202	854132	10.817	ng	99
81) Benzo(a)anthracene	21.513	228	535889	6.479	ng	96
83) Chrysene	21.513	228	535889	6.875	ng	97
87) Indeno(1,2,3-cd)pyrene	28.554	276	435240	3.689	ng	# 92
88) Benzo(b)fluoranthene	23.783	252	775080	8.089	ng	97
89) Benzo(k)fluoranthene	23.854	252	268169	2.802	ng	# 91
90) Benzo(a)pyrene	24.671	252	657636	7.246	ng	96
92) Benzo(g,h,i)perylene	29.712	276	412184	4.293	ng	97

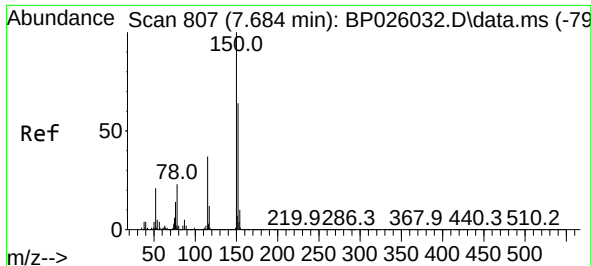
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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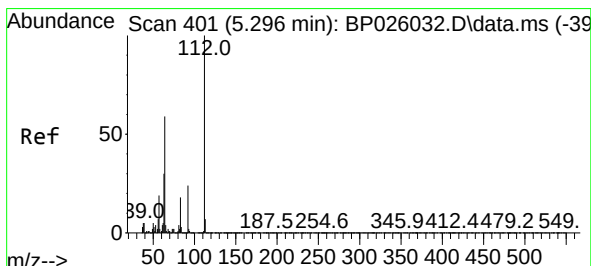
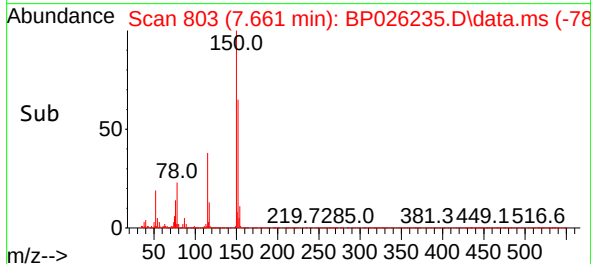
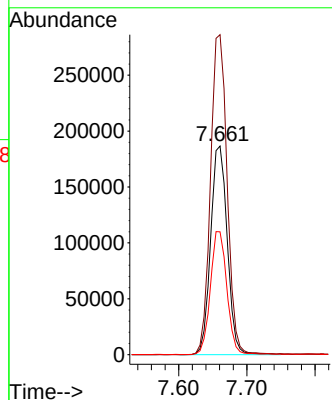
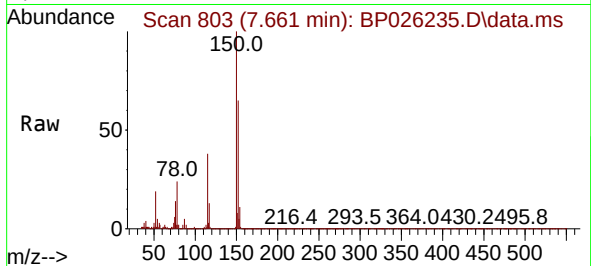




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.661 min Scan# 807
Delta R.T. -0.011 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

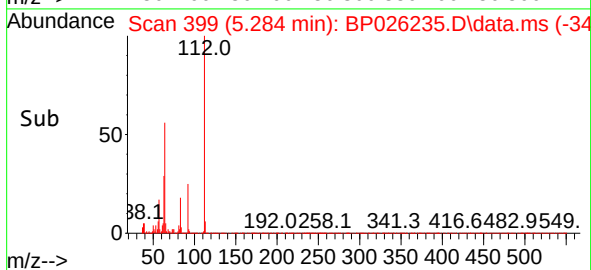
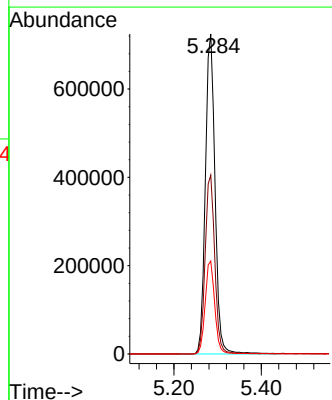
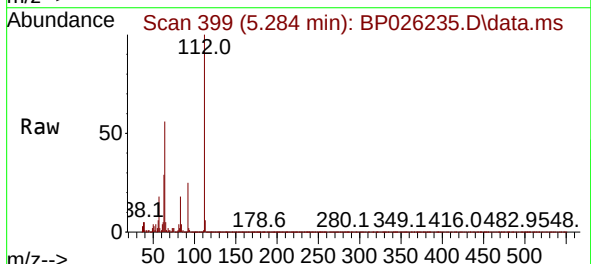
Instrument :
BNA_P
ClientSampleId :
B50-SP4-112525

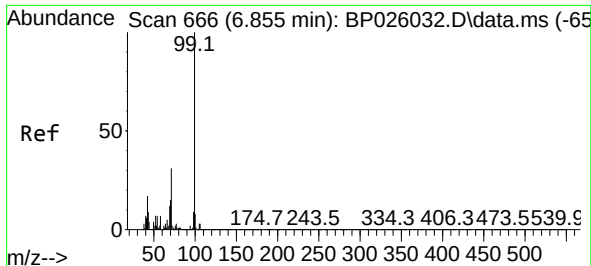
Tgt Ion:152 Resp: 316661
Ion Ratio Lower Upper
152 100
150 153.3 123.0 184.6
115 58.9 46.3 69.5



#5
2-Fluorophenol
Concen: 56.560 ng
RT: 5.284 min Scan# 399
Delta R.T. -0.006 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

Tgt Ion:112 Resp: 1115841
Ion Ratio Lower Upper
112 100
64 55.9 45.8 68.6
63 29.0 23.5 35.3

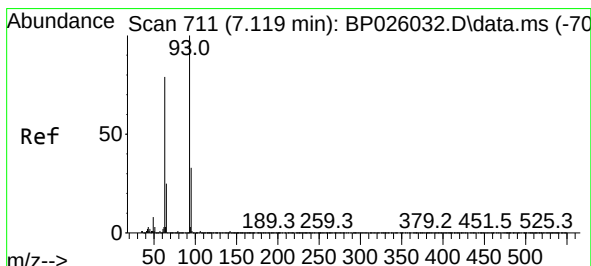
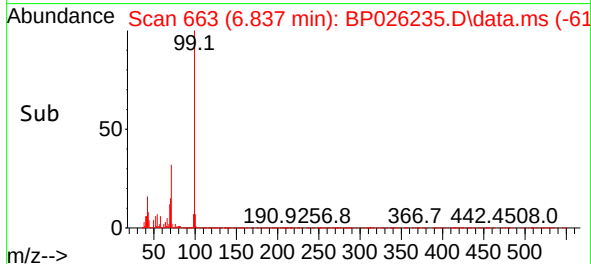
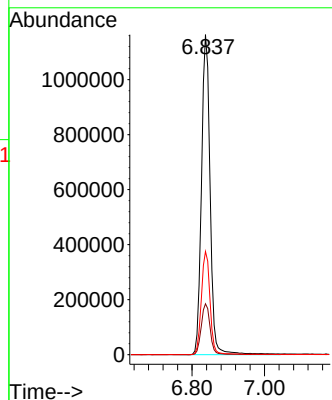
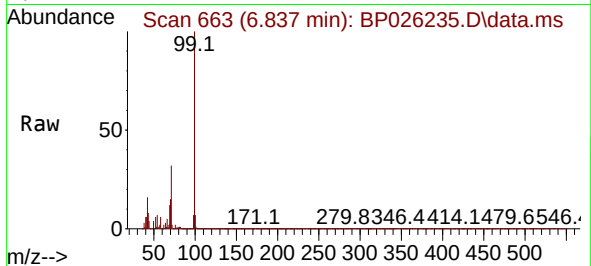




#7
Phenol-d6
Concen: 76.550 ng
RT: 6.837 min Scan# 60
Delta R.T. -0.017 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

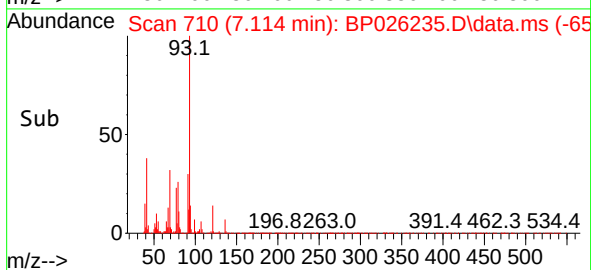
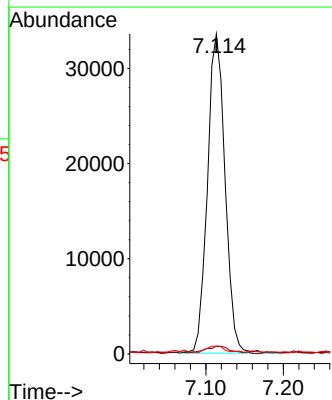
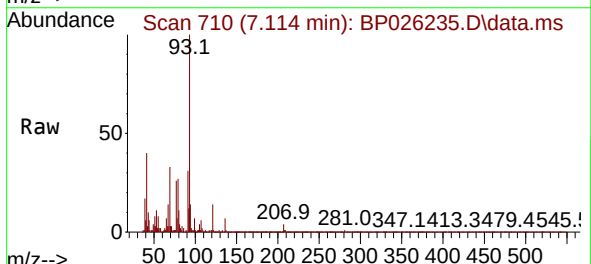
Instrument :
BNA_P
ClientSampleId :
B50-SP4-112525

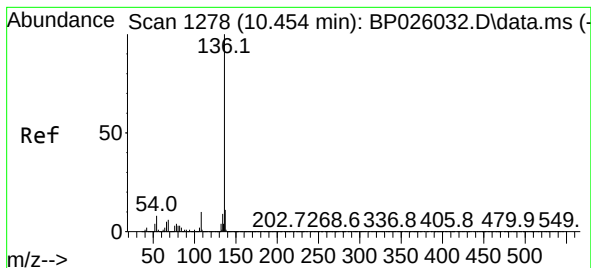
Tgt Ion: 99 Resp: 1922623
Ion Ratio Lower Upper
99 100
42 15.9 12.9 19.3
71 32.3 24.8 37.2



#11
bis(2-Chloroethyl)ether
Concen: 2.501 ng
RT: 7.114 min Scan# 710
Delta R.T. 0.018 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

Tgt Ion: 93 Resp: 52987
Ion Ratio Lower Upper
93 100
63 2.5 58.8 98.8#
95 2.4 12.1 52.1#

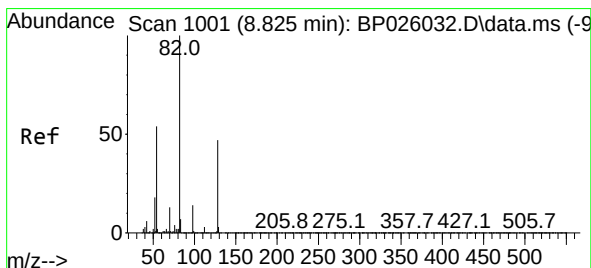
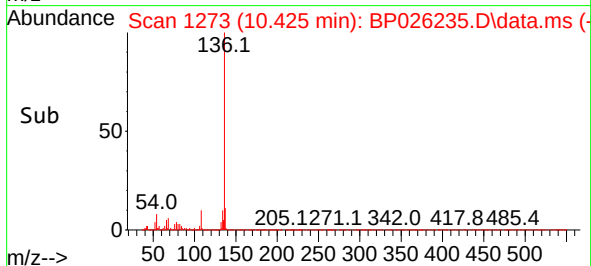
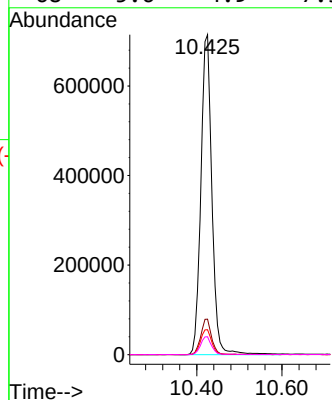
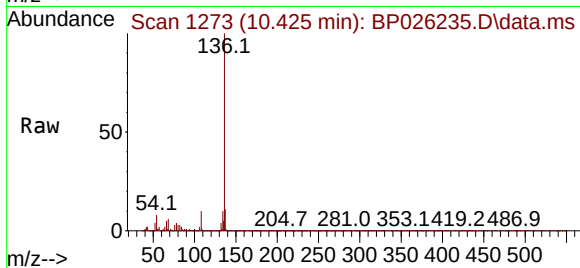




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.425 min Scan# 11
Delta R.T. -0.023 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

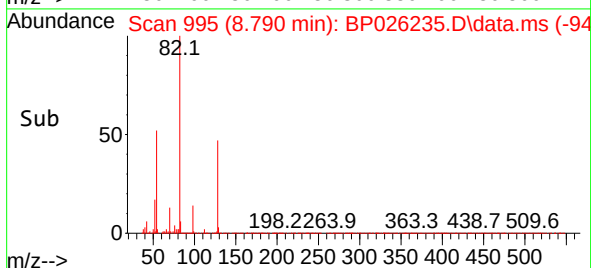
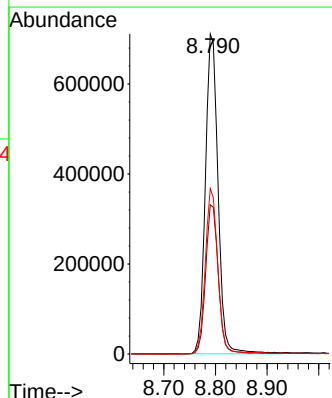
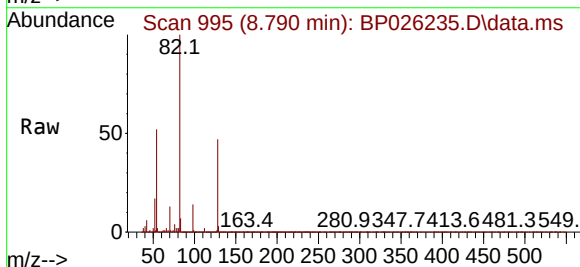
Instrument :
BNA_P
ClientSampleId :
B50-SP4-112525

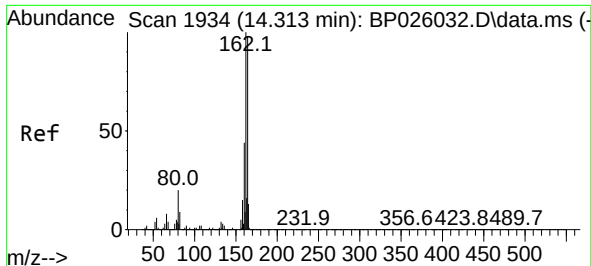
Tgt Ion:136 Resp: 1283087
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 7.8 6.4 9.6
68 5.6 4.9 7.3



#23
Nitrobenzene-d5
Concen: 53.574 ng
RT: 8.790 min Scan# 995
Delta R.T. -0.023 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

Tgt Ion: 82 Resp: 1210164
Ion Ratio Lower Upper
82 100
128 46.6 37.4 56.0
54 51.7 41.6 62.4

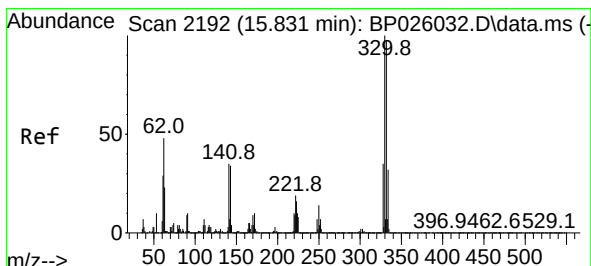
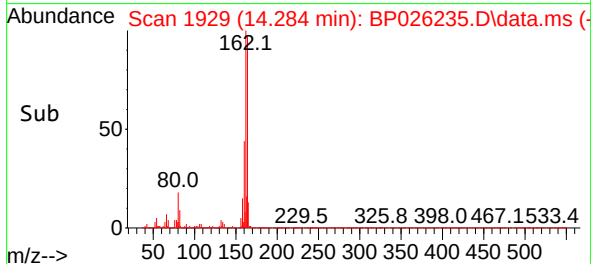
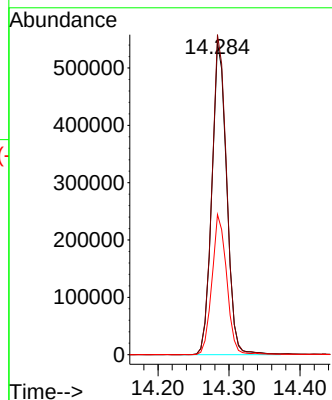
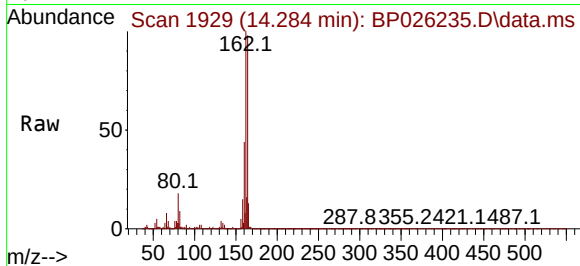




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.284 min Scan# 1934
Delta R.T. -0.041 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

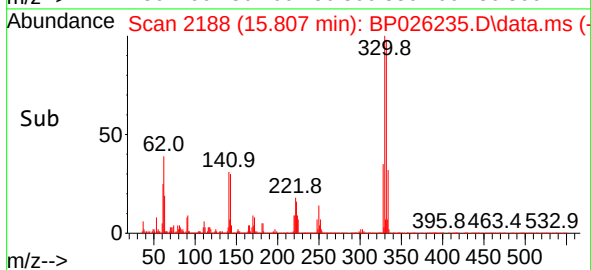
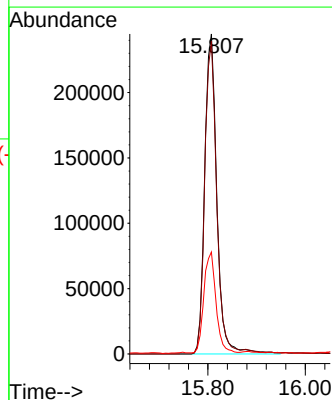
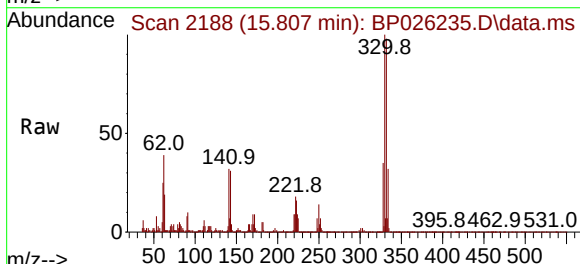
Instrument :
BNA_P
ClientSampleId :
B50-SP4-112525

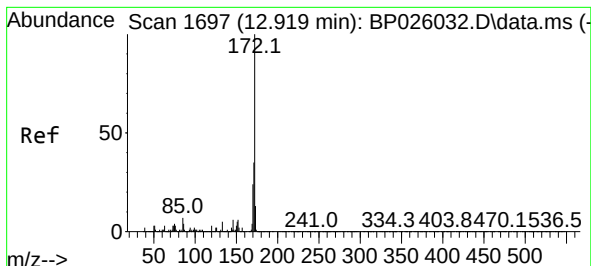
Tgt Ion:164 Resp: 788396
Ion Ratio Lower Upper
164 100
162 102.6 80.3 120.5
160 44.9 35.2 52.8



#42
2,4,6-Tribromophenol
Concen: 41.549 ng
RT: 15.807 min Scan# 2188
Delta R.T. -0.029 min
Lab File: BP026235.D
Acq: 03 Dec 2025 20:24

Tgt Ion:330 Resp: 424939
Ion Ratio Lower Upper
330 100
332 94.9 78.0 117.0
141 31.3 26.8 40.2





#45

2-Fluorobiphenyl

Concen: 58.952 ng

RT: 12.901 min Scan# 1

Delta R.T. -0.029 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

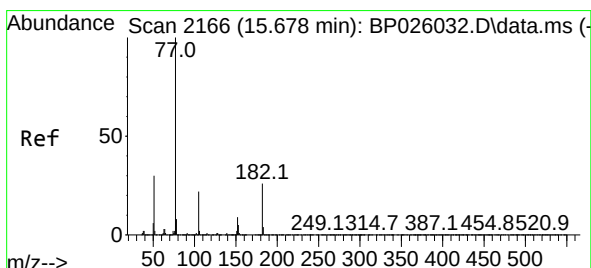
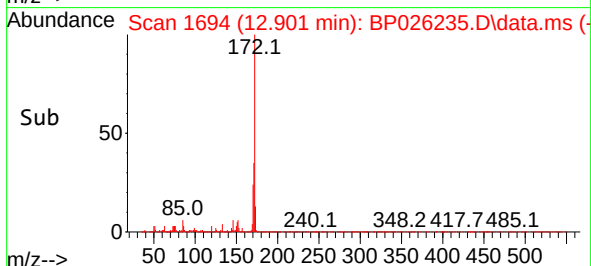
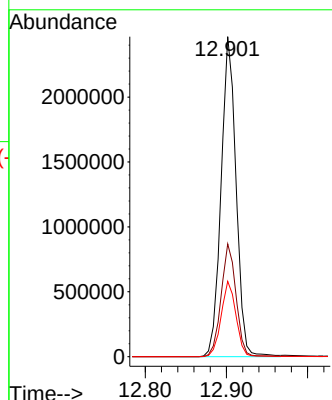
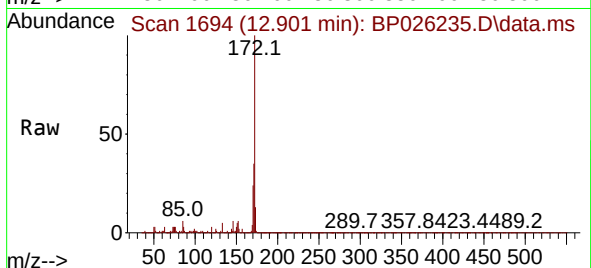
Tgt Ion:172 Resp: 3171234

Ion Ratio Lower Upper

172 100

171 35.2 28.2 42.4

170 23.5 18.7 28.1



#63

Azobenzene

Concen: 3.591 ng

RT: 15.672 min Scan# 2165

Delta R.T. -0.017 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Tgt Ion: 77 Resp: 179629

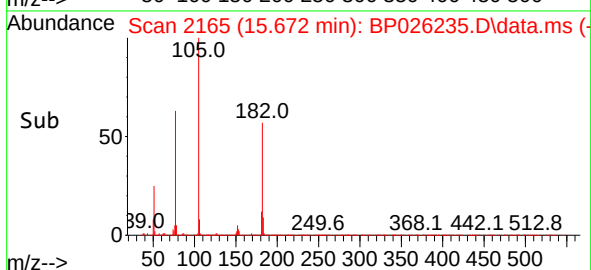
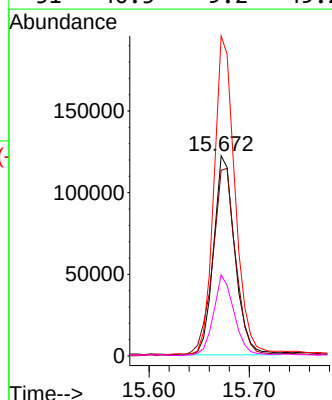
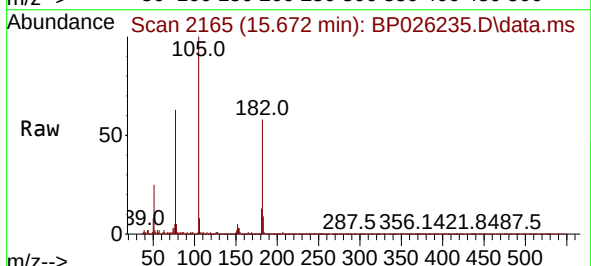
Ion Ratio Lower Upper

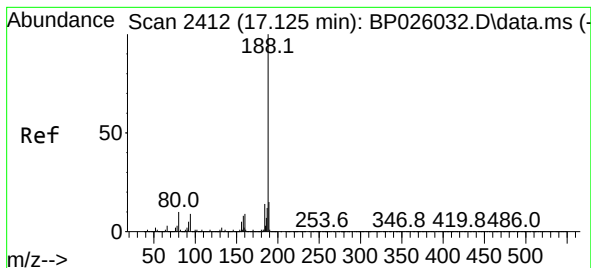
77 100

182 92.7 8.8 48.8#

105 159.8 2.6 42.6#

51 40.5 9.2 49.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.089 min Scan# 2412

Delta R.T. -0.041 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

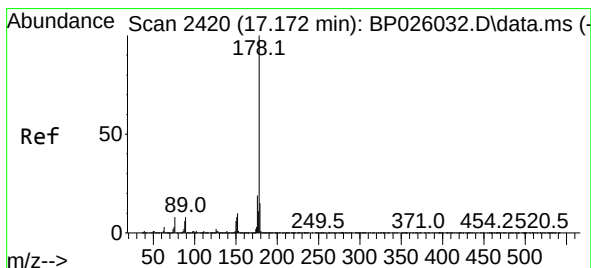
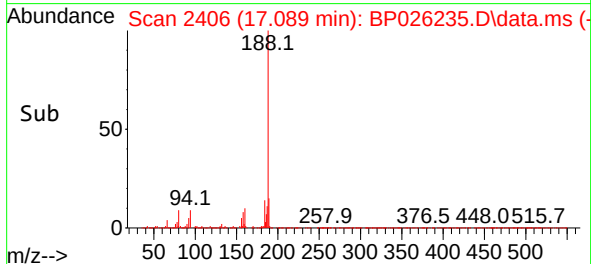
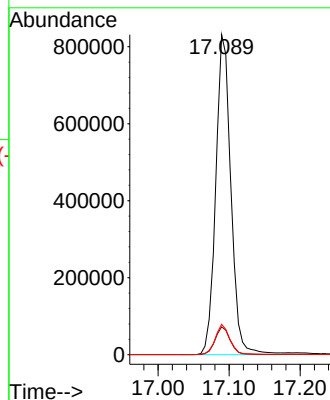
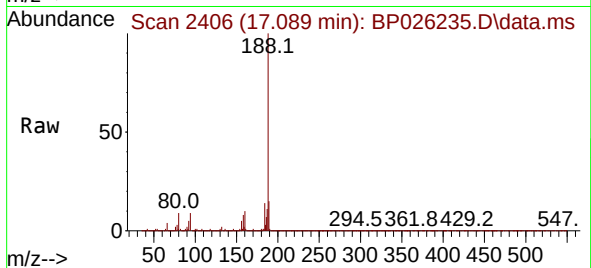
Tgt Ion:188 Resp: 1231674

Ion Ratio Lower Upper

188 100

94 8.7 7.8 11.6

80 9.5 8.2 12.2



#71

Phenanthrene

Concen: 10.905 ng

RT: 17.137 min Scan# 2414

Delta R.T. -0.041 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

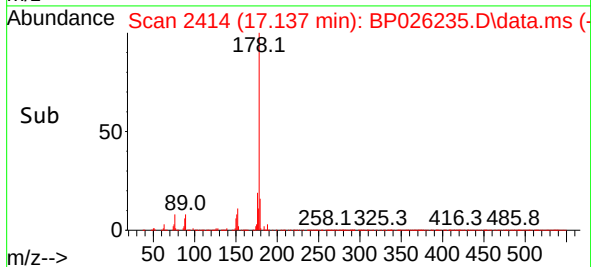
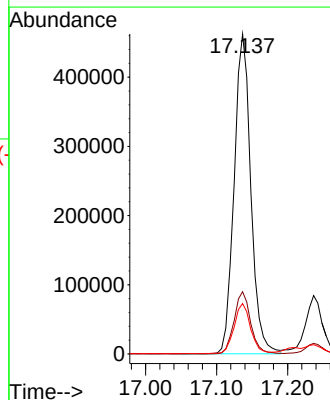
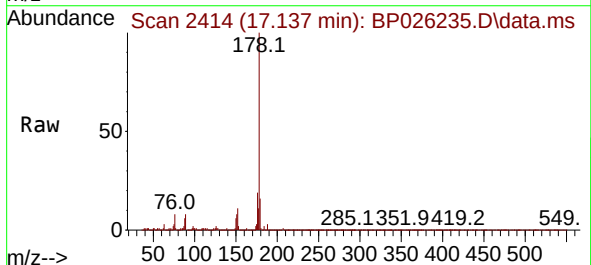
Tgt Ion:178 Resp: 756617

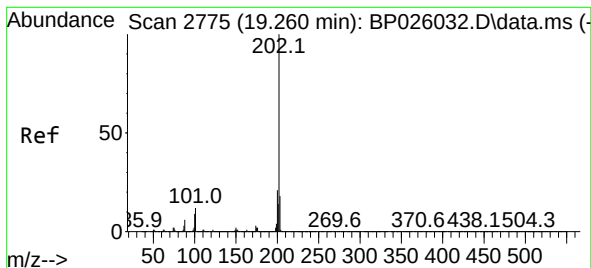
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.8 12.4 18.6





#75

Fluoranthene

Concen: 10.948 ng

RT: 19.225 min Scan# 21

Delta R.T. -0.041 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

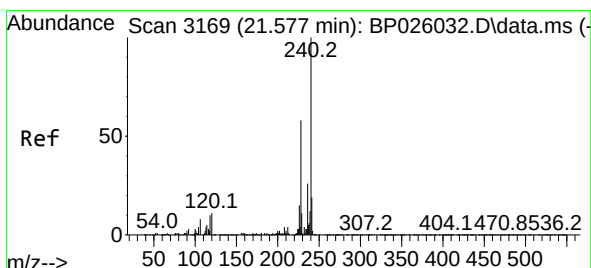
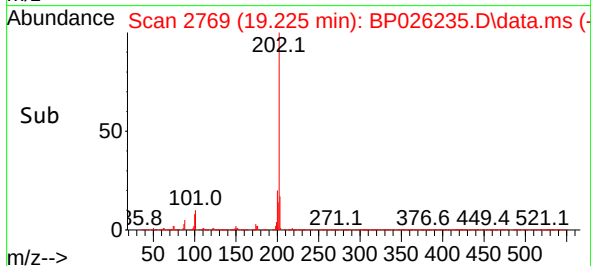
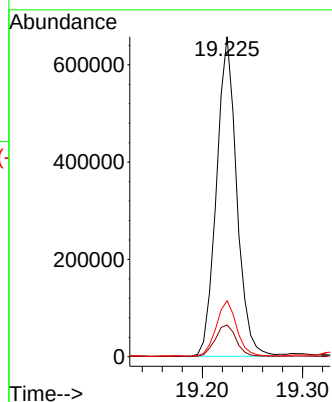
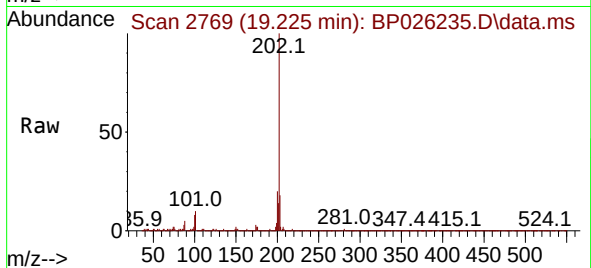
Tgt Ion:202 Resp: 922915

Ion Ratio Lower Upper

202 100

101 9.9 0.0 31.2

203 17.5 0.0 37.7



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.530 min Scan# 3161

Delta R.T. -0.041 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

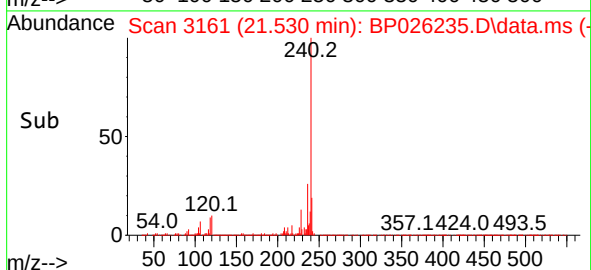
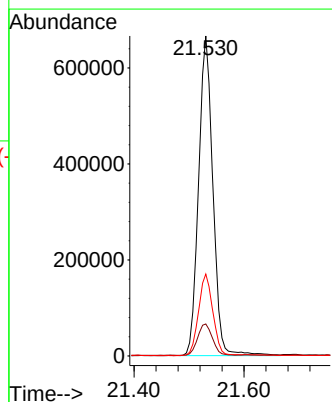
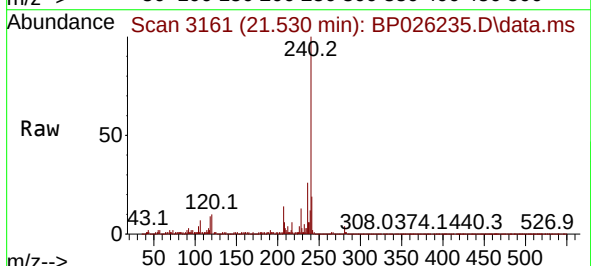
Tgt Ion:240 Resp: 1204285

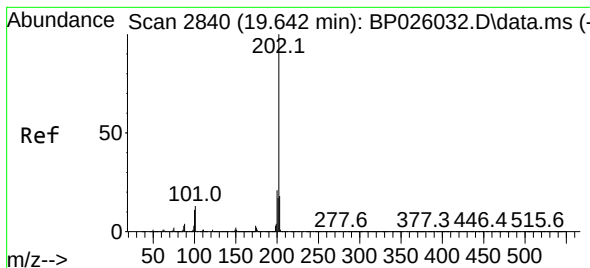
Ion Ratio Lower Upper

240 100

120 10.0 9.0 13.4

236 25.6 20.4 30.6





#78

Pyrene

Concen: 10.817 ng

RT: 19.601 min Scan# 2833

Delta R.T. -0.041 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

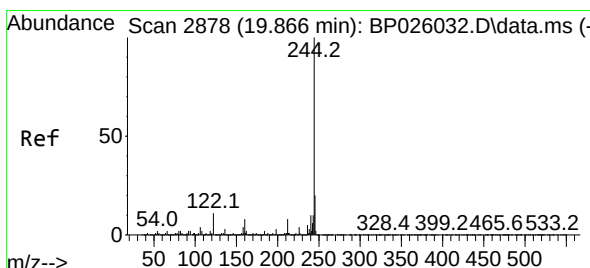
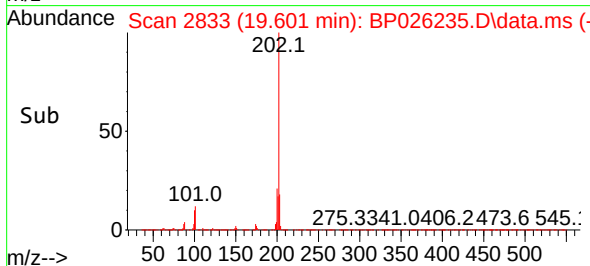
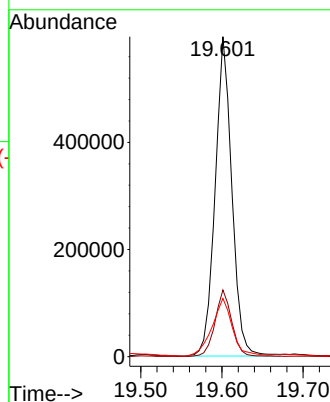
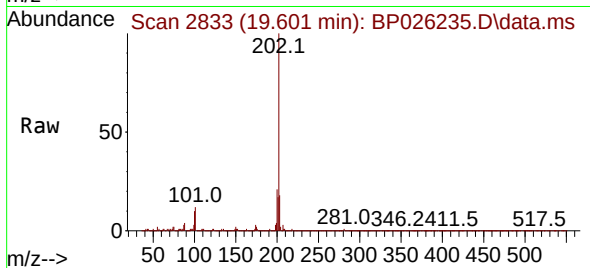
Tgt Ion:202 Resp: 854132

Ion Ratio Lower Upper

202 100

200 20.9 16.9 25.3

203 18.2 13.8 20.8



#79

Terphenyl-d14

Concen: 53.542 ng

RT: 19.825 min Scan# 2871

Delta R.T. -0.047 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

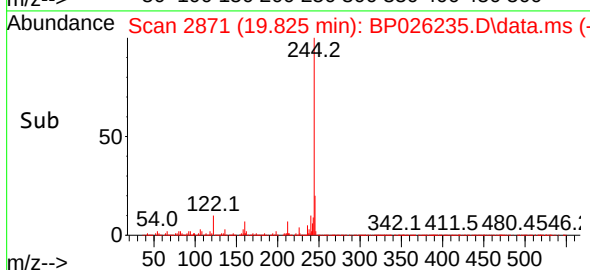
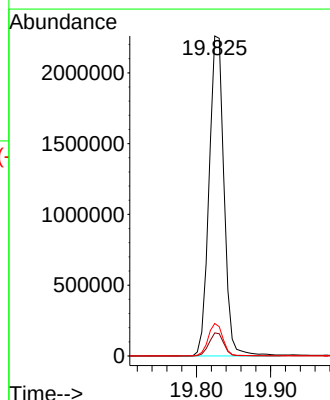
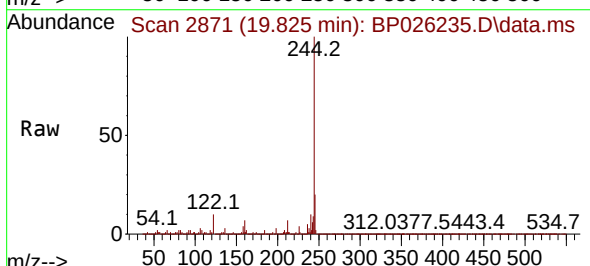
Tgt Ion:244 Resp: 3162222

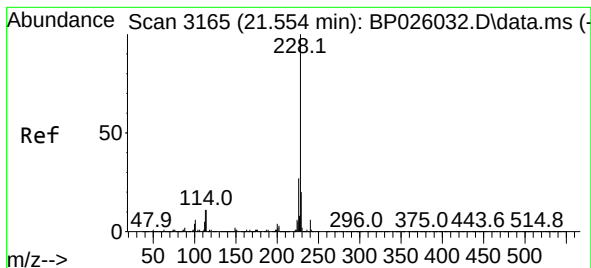
Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

122 10.2 8.2 12.2





#81

Benzo(a)anthracene

Concen: 6.479 ng

RT: 21.513 min Scan# 3158

Delta R.T. -0.041 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

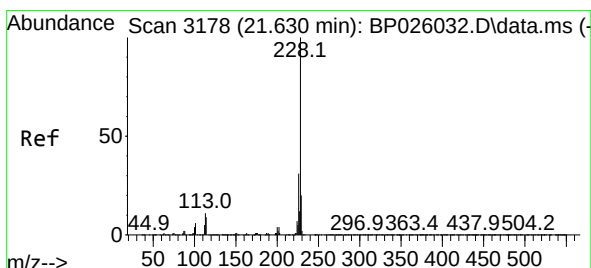
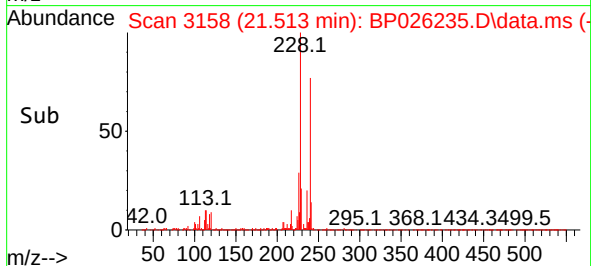
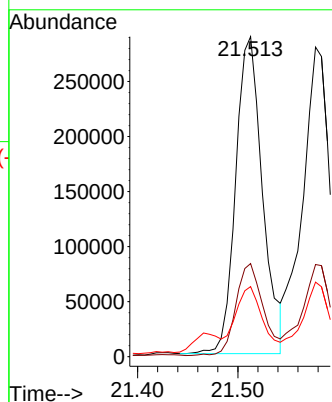
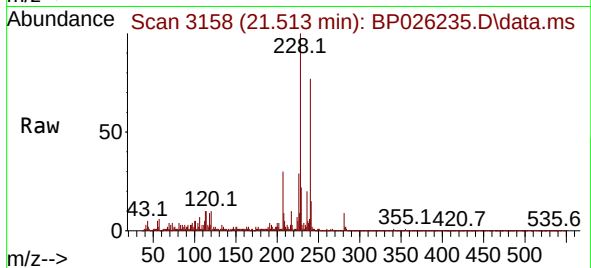
Tgt Ion:228 Resp: 535889

Ion Ratio Lower Upper

228 100

226 29.1 21.8 32.8

229 21.9 15.9 23.9



#83

Chrysene

Concen: 6.875 ng

RT: 21.513 min Scan# 3158

Delta R.T. -0.106 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

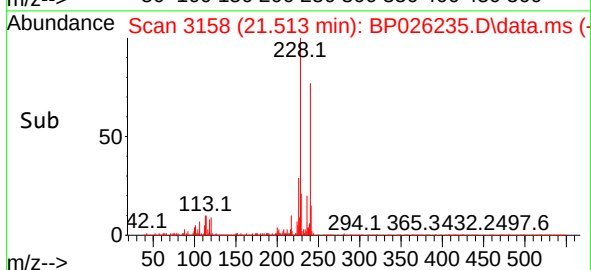
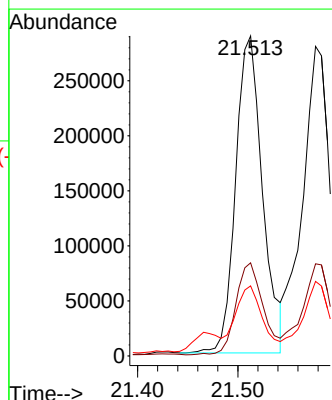
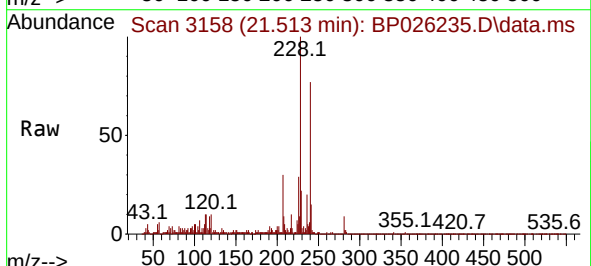
Tgt Ion:228 Resp: 535889

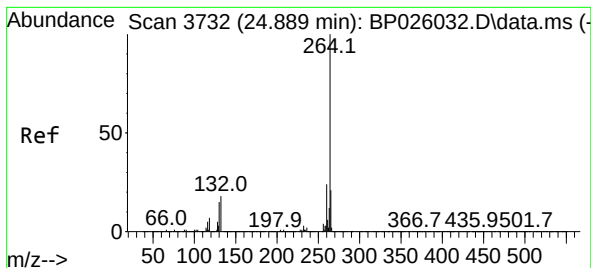
Ion Ratio Lower Upper

228 100

226 29.1 23.9 35.9

229 21.9 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.824 min Scan# 31

Delta R.T. -0.082 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

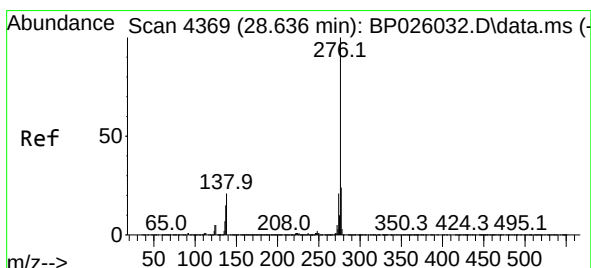
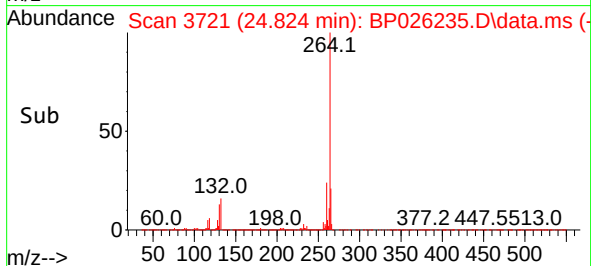
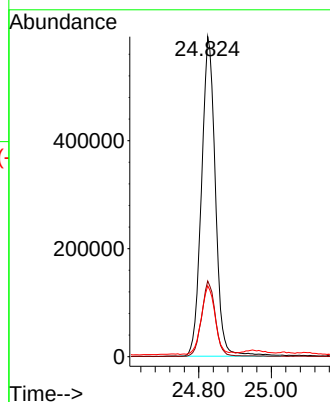
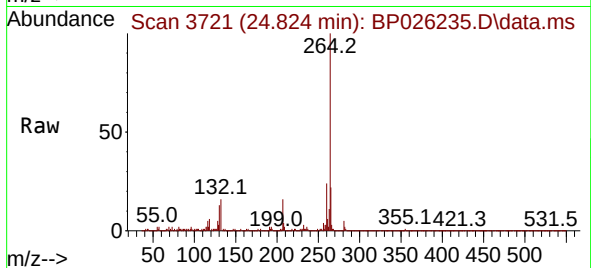
Tgt Ion:264 Resp: 1573376

Ion Ratio Lower Upper

264 100

260 23.6 18.7 28.1

265 22.1 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.689 ng

RT: 28.554 min Scan# 4355

Delta R.T. -0.153 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

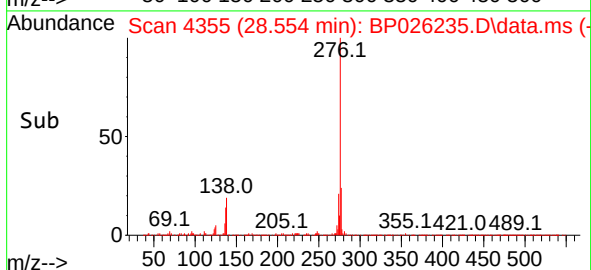
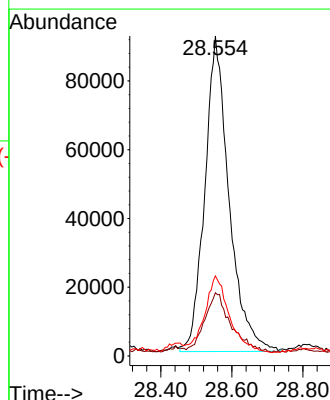
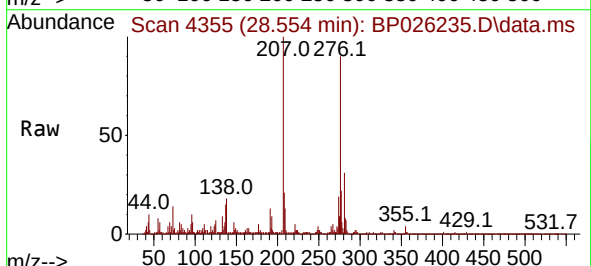
Tgt Ion:276 Resp: 435240

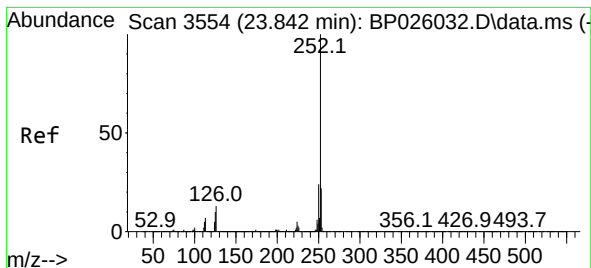
Ion Ratio Lower Upper

276 100

138 20.8 13.8 20.8

277 24.9 16.7 25.1





#88

Benzo(b)fluoranthene

Concen: 8.089 ng

RT: 23.783 min Scan# 31

Delta R.T. -0.082 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

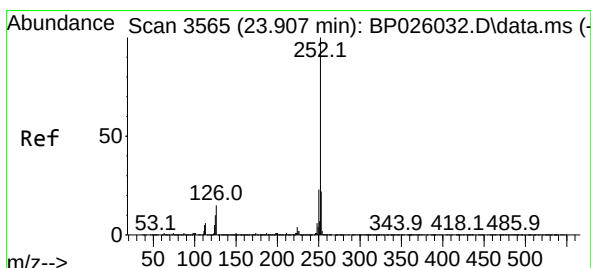
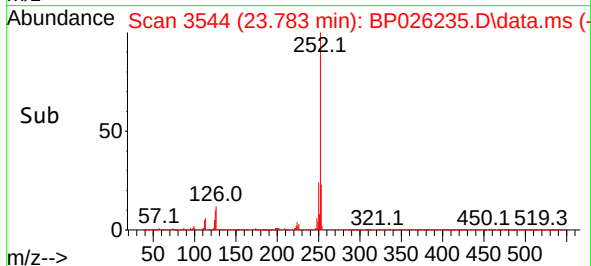
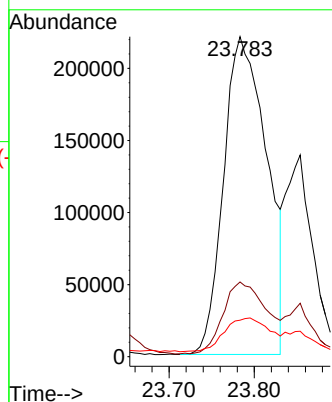
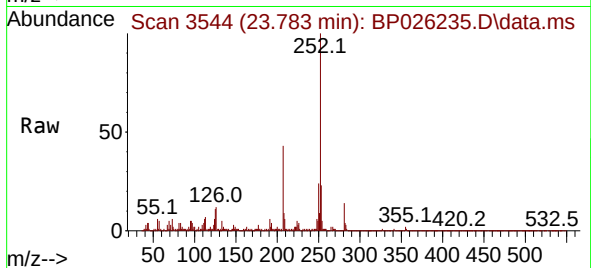
Tgt Ion:252 Resp: 775080

Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

125 11.4 8.2 12.4



#89

Benzo(k)fluoranthene

Concen: 2.802 ng

RT: 23.854 min Scan# 3556

Delta R.T. -0.082 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

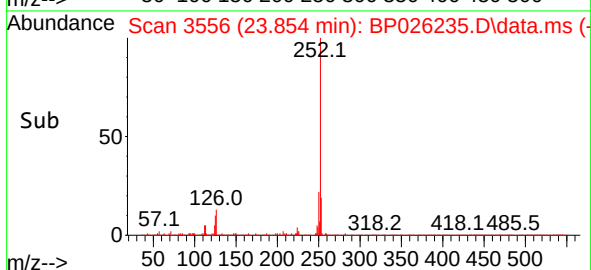
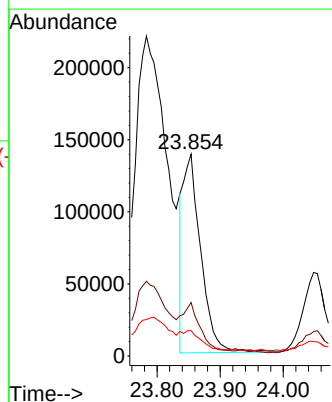
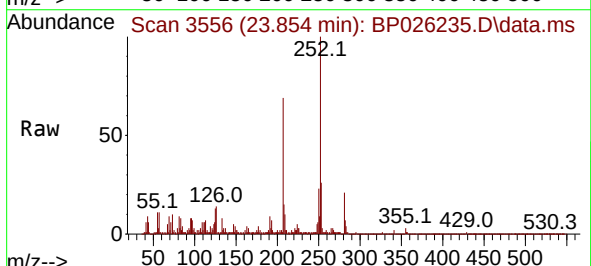
Tgt Ion:252 Resp: 268169

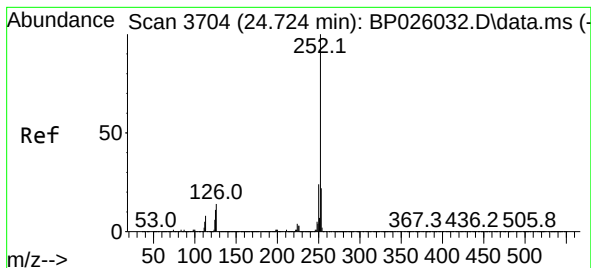
Ion Ratio Lower Upper

252 100

253 26.5 17.6 26.4#

125 12.6 7.5 11.3#





#90

Benzo(a)pyrene

Concen: 7.246 ng

RT: 24.671 min Scan# 3

Delta R.T. -0.082 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Instrument :

BNA_P

ClientSampleId :

B50-SP4-112525

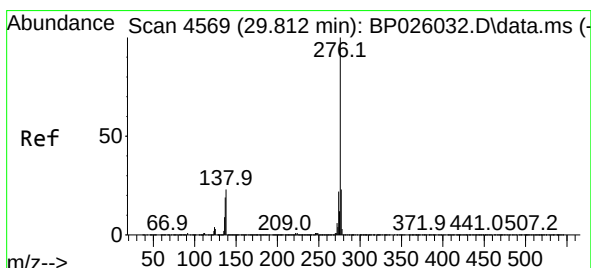
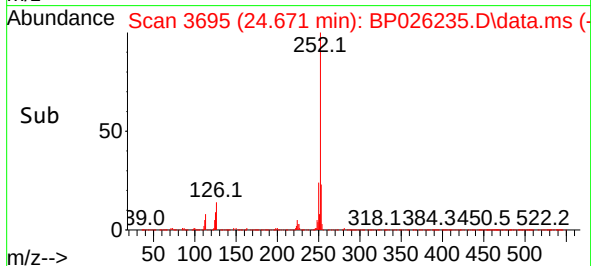
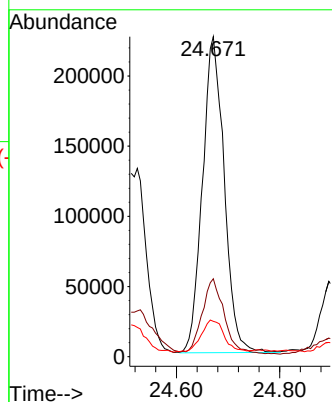
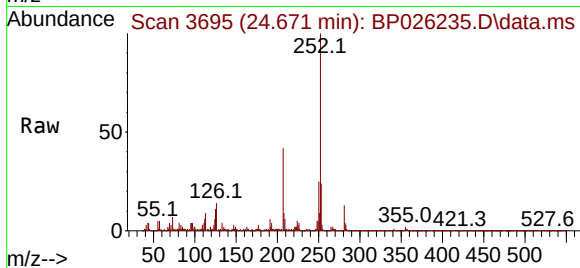
Tgt Ion:252 Resp: 657636

Ion Ratio Lower Upper

252 100

253 24.4 17.4 26.2

125 11.0 9.0 13.6



#92

Benzo(g,h,i)perylene

Concen: 4.293 ng

RT: 29.712 min Scan# 4552

Delta R.T. -0.170 min

Lab File: BP026235.D

Acq: 03 Dec 2025 20:24

Tgt Ion:276 Resp: 412184

Ion Ratio Lower Upper

276 100

277 23.3 18.8 28.2

138 19.6 17.8 26.6

