

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP090425\
 Data File : BP025657.D
 Acq On : 04 Sep 2025 12:44
 Operator : CG/JU
 Sample : Q2893-02
 Misc : LOQ-SOIL 2.5PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 LOQ-SOIL-02-QT3-2025

Quant Time: Sep 04 13:15:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 14 18:14:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.766	152	129518	20.000	ng	-0.03
21) Naphthalene-d8	10.543	136	513672	20.000	ng	-0.02
39) Acenaphthene-d10	14.395	164	340056	20.000	ng	-0.01
64) Phenanthrene-d10	17.201	188	697569	20.000	ng	0.00
76) Chrysene-d12	21.654	240	823719	20.000	ng	0.00
86) Perylene-d12	25.042	264	932054	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.390	112	962457	123.408	ng	-0.02
7) Phenol-d6	6.955	99	1195340	119.546	ng	-0.01
23) Nitrobenzene-d5	8.913	82	728511	71.742	ng	-0.02
42) 2,4,6-Tribromophenol	15.919	330	598705	130.802	ng	0.00
45) 2-Fluorobiphenyl	13.001	172	1666067	66.959	ng	-0.02
79) Terphenyl-d14	19.930	244	2906280	64.552	ng	0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.319	88	7532	2.466	ng	# 96
3) Pyridine	3.731	79	19851	2.374	ng	92
4) n-Nitrosodimethylamine	3.631	42	8592	2.492	ng	# 91
6) Aniline	7.102	93	30201	2.242	ng	95
8) 2-Chlorophenol	7.343	128	20804	2.364	ng	87
9) Benzaldehyde	6.925	77	20058	2.863	ng	93
10) Phenol	6.984	94	23485	2.238	ng	# 67
11) bis(2-Chloroethyl)ether	7.196	93	18767	2.295	ng	94
12) 1,3-Dichlorobenzene	7.660	146	23331	2.404	ng	94
13) 1,4-Dichlorobenzene	7.802	146	22575	2.276	ng	96
14) 1,2-Dichlorobenzene	8.119	146	22232	2.315	ng	92
15) Benzyl Alcohol	8.013	79	16385	2.062	ng	# 85
16) 2,2'-oxybis(1-Chloropr...	8.296	45	26853	2.451	ng	99
17) 2-Methylphenol	8.219	107	15179	2.083	ng	94
18) Hexachloroethane	8.843	117	8241	2.260	ng	# 71
19) n-Nitroso-di-n-propyla...	8.560	70	13375	2.019	ng	95
22) Acetophenone	8.584	105	29396	2.282	ng	# 92
24) Nitrobenzene	8.954	77	21136	2.329	ng	95
25) Isophorone	9.484	82	36886	2.053	ng	# 96
28) bis(2-Chloroethoxy)met...	9.966	93	22055	2.030	ng	97
30) 1,2,4-Trichlorobenzene	10.407	180	19354	2.219	ng	96
31) Naphthalene	10.590	128	60579	2.269	ng	98
34) Hexachlorobutadiene	10.872	225	12929	2.380	ng	98
37) 2-Methylnaphthalene	12.201	142	37384	2.152	ng	97
38) 1-Methylnaphthalene	12.201	142	37384	2.023	ng	99
40) 1,2,4,5-Tetrachloroben...	12.578	216	21430	2.182	ng	98
46) 1,1'-Biphenyl	13.213	154	57045	2.310	ng	98
47) 2-Chloronaphthalene	13.260	162	43565	2.266	ng	98
49) Acenaphthylene	14.119	152	69536	2.186	ng	98
50) Dimethylphthalate	13.848	163	56861	2.283	ng	99
52) Acenaphthene	14.460	154	43451	2.327	ng	98
55) Dibenzofuran	14.807	168	68262	2.312	ng	98
56) 4-Nitrophenol	14.807	139	31117	6.413	ng	# 12
58) Fluorene	15.460	166	54599	2.344	ng	97
60) Diethylphthalate	15.231	149	55330	2.187	ng	99
61) 4-Chlorophenyl-phenyle...	15.460	204	27049	2.335	ng	96

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

63) Azobenzene	15.754	77	48391	2.234	ng	95
66) n-Nitrosodiphenylamine	15.672	169	45168	2.123	ng	95
67) 4-Bromophenyl-phenylether	16.372	248	17266	2.251	ng	89
68) Hexachlorobenzene	16.489	284	20345	2.288	ng	97
69) Atrazine	16.654	200	16938	2.126	ng	90
71) Phenanthrene	17.242	178	92074	2.403	ng	99
72) Anthracene	17.342	178	85725	2.191	ng	98
73) Carbazole	17.642	167	78078	2.118	ng	96
74) Di-n-butylphthalate	18.207	149	96299	2.124	ng	97
75) Fluoranthene	19.336	202	107398	2.350	ng	98
78) Pyrene	19.713	202	112230	2.096	ng	98
81) Benzo(a)anthracene	21.636	228	120764	2.223	ng	97
83) Chrysene	21.707	228	121689	2.392	ng	98
84) Bis(2-ethylhexyl)phtha...	21.571	149	71993	2.016	ng	99
88) Benzo(b)fluoranthene	23.971	252	124390	2.263	ng	98
89) Benzo(k)fluoranthene	24.036	252	123587	2.247	ng	96
90) Benzo(a)pyrene	24.883	252	120579	2.254	ng	98
91) Dibenzo(a,h)anthracene	28.971	278	118511	2.122	ng	98
92) Benzo(g,h,i)perylene	30.071	276	122292	2.227	ng	98

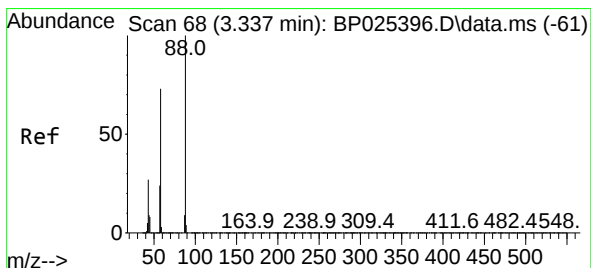
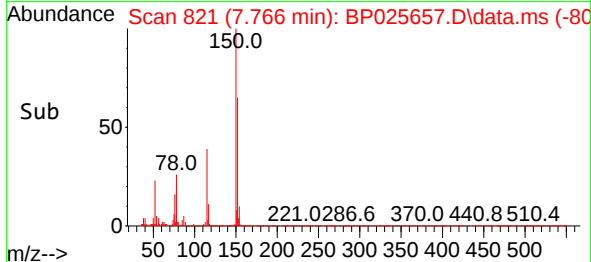
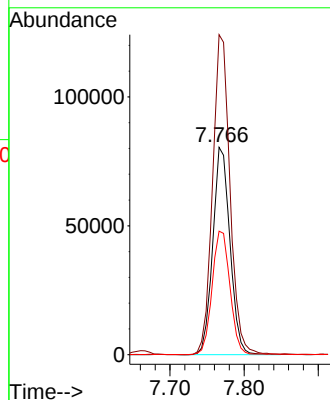
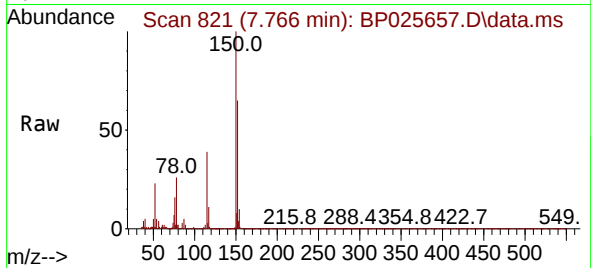
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.766 min Scan# 81
 Delta R.T. -0.030 min
 Lab File: BP025657.D
 Acq: 04 Sep 2025 12:44

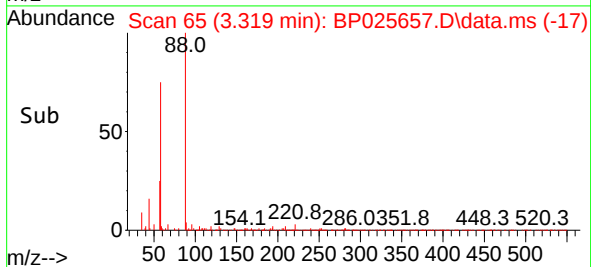
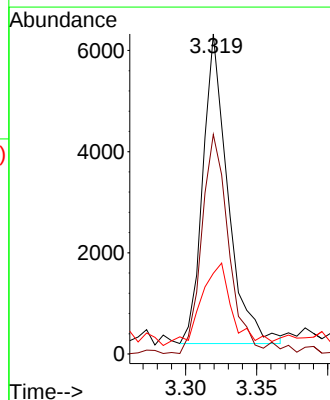
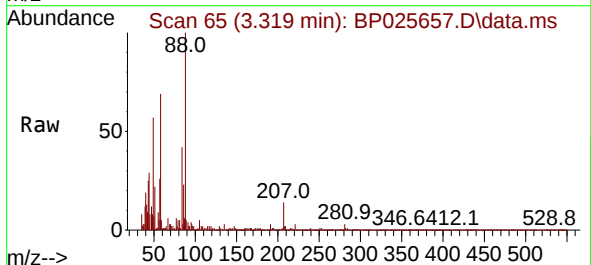
Instrument :
 BNA_P
 ClientSampleId :
 LOQ-SOIL-02-QT3-2025

Tgt Ion:152 Resp: 129518
 Ion Ratio Lower Upper
 152 100
 150 154.3 125.9 188.9
 115 59.5 48.5 72.7



#2
 1,4-Dioxane
 Concen: 2.466 ng
 RT: 3.319 min Scan# 65
 Delta R.T. -0.018 min
 Lab File: BP025657.D
 Acq: 04 Sep 2025 12:44

Tgt Ion: 88 Resp: 7532
 Ion Ratio Lower Upper
 88 100
 58 75.2 59.2 88.8
 43 32.9 21.7 32.5#





#3

Pyridine

Concen: 2.374 ng

RT: 3.731 min Scan# 11

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

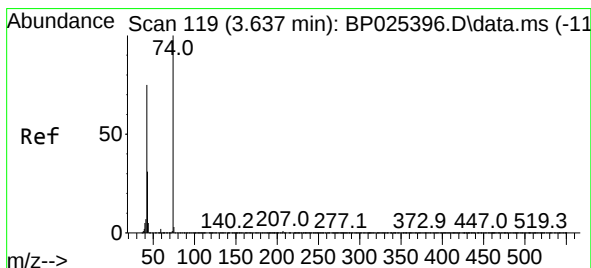
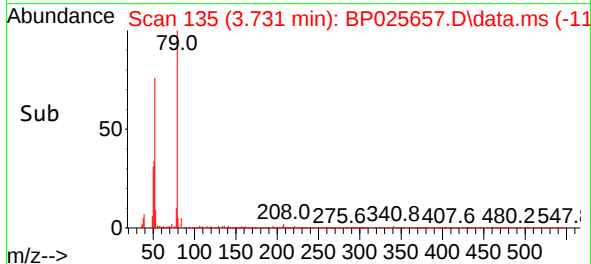
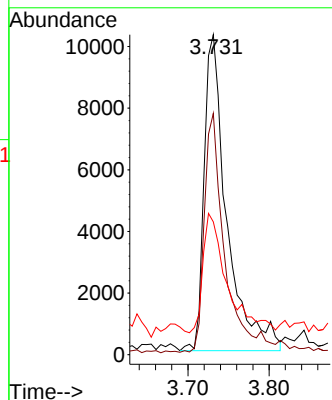
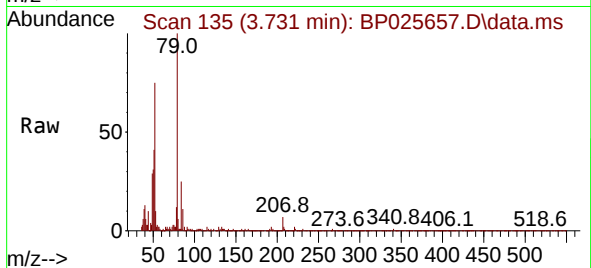
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ClientSampleId :

LOQ-SOIL-02-QT3-2025

Tgt Ion: 79 Resp: 19851

Ion	Ratio	Lower	Upper
79	100		
52	75.4	55.5	83.3
51	41.5	28.3	42.5



#4

n-Nitrosodimethylamine

Concen: 2.492 ng

RT: 3.631 min Scan# 118

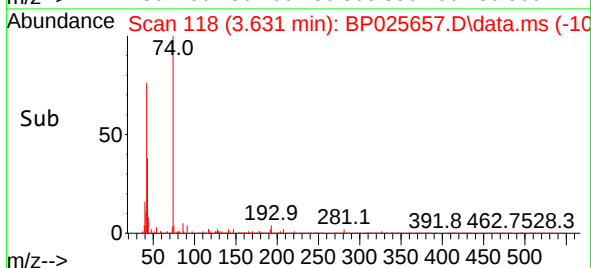
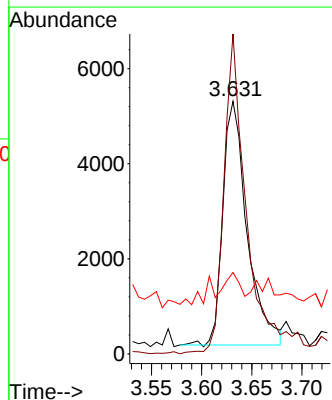
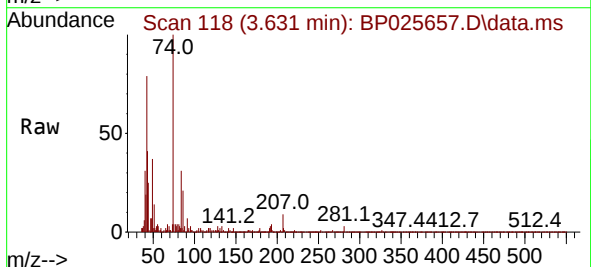
Delta R.T. -0.006 min

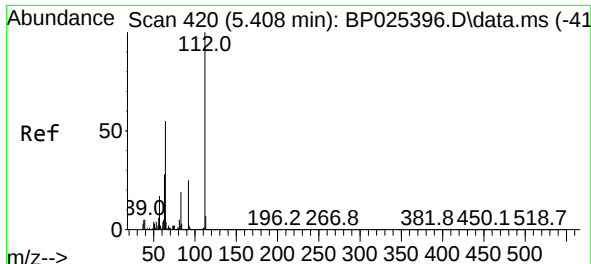
Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Tgt Ion: 42 Resp: 8592

Ion	Ratio	Lower	Upper
42	100		
74	126.6	107.0	160.4
44	32.2	6.2	9.4

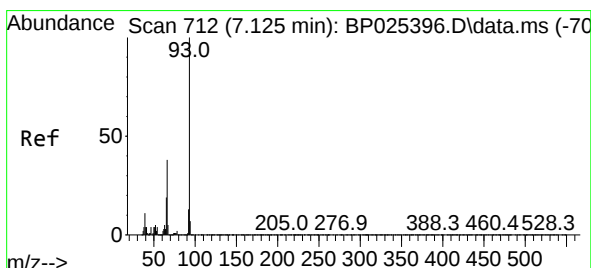
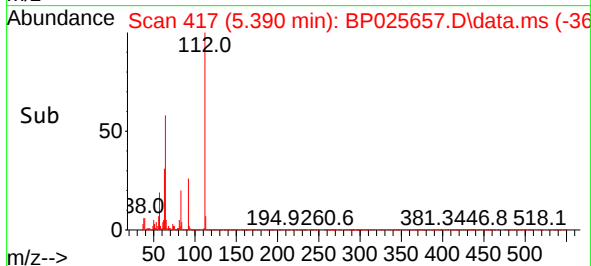
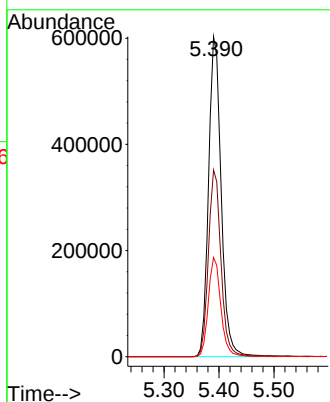
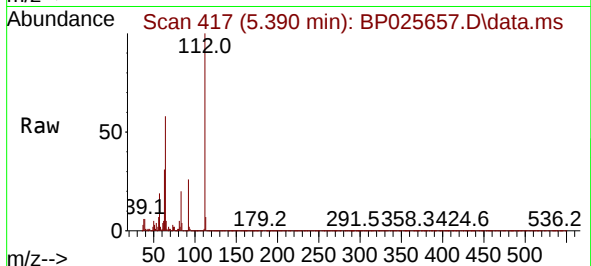




#5
2-Fluorophenol
Concen: 123.408 ng
RT: 5.390 min Scan# 41
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

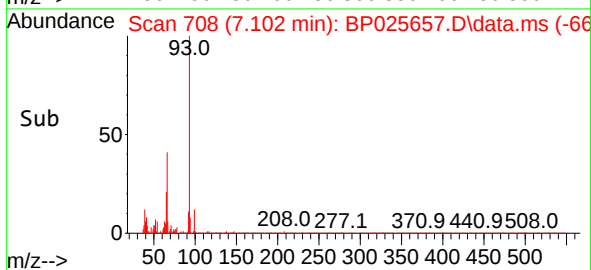
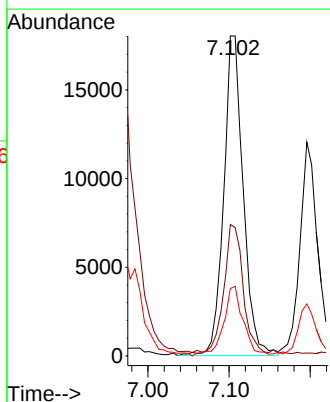
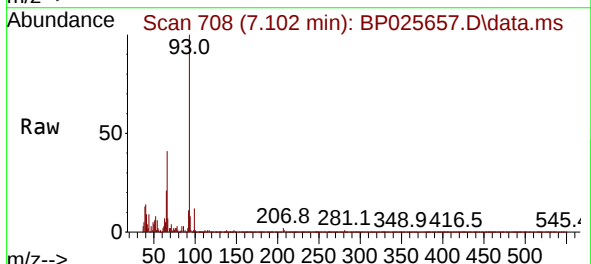
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

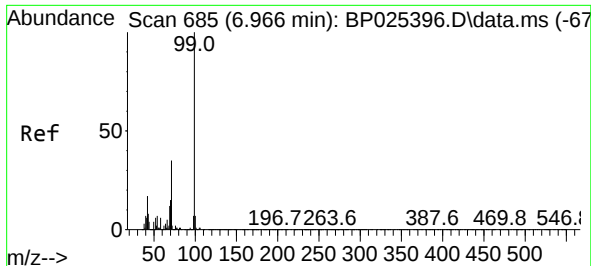
Tgt Ion:112 Resp: 962457
Ion Ratio Lower Upper
112 100
64 58.3 43.8 65.8
63 31.0 22.7 34.1



#6
Aniline
Concen: 2.242 ng
RT: 7.102 min Scan# 708
Delta R.T. -0.024 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion: 93 Resp: 30201
Ion Ratio Lower Upper
93 100
66 41.1 30.4 45.6
65 21.1 15.3 22.9





#7

Phenol-d6

Concen: 119.546 ng

RT: 6.955 min Scan# 61

Delta R.T. -0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

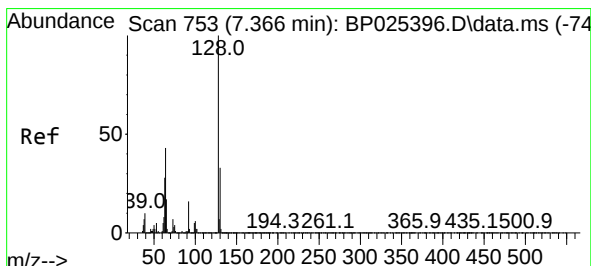
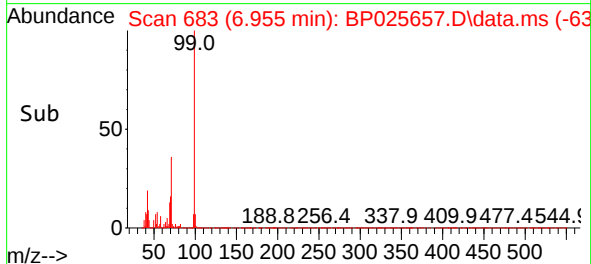
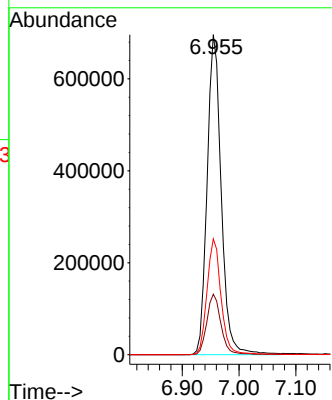
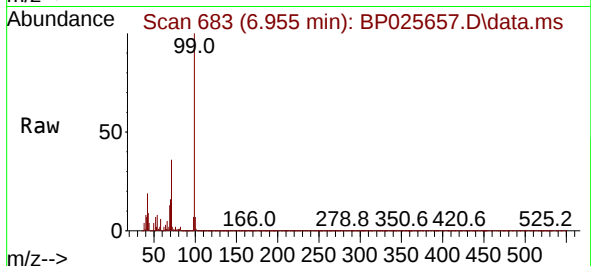
BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

Tgt Ion: 99 Resp: 1195340

Ion	Ratio	Lower	Upper
99	100		
42	18.9	13.7	20.5
71	36.2	28.2	42.4



#8

2-Chlorophenol

Concen: 2.364 ng

RT: 7.343 min Scan# 749

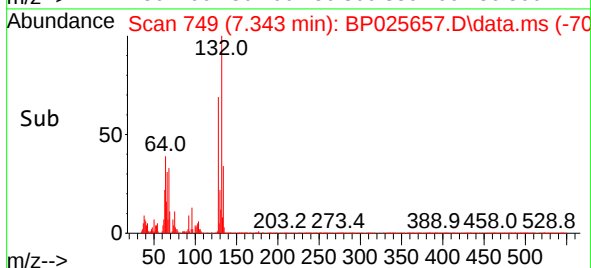
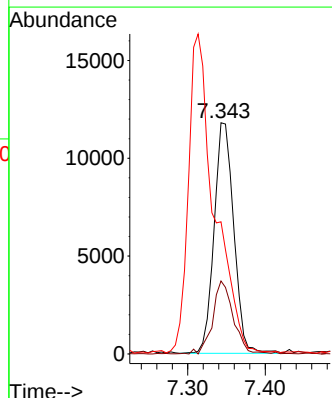
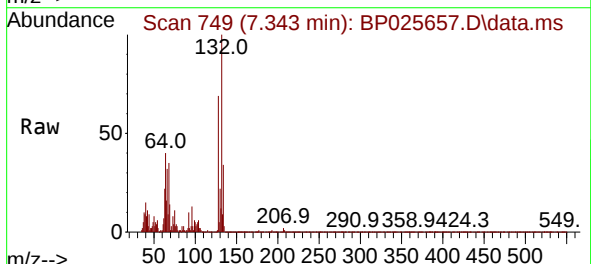
Delta R.T. -0.024 min

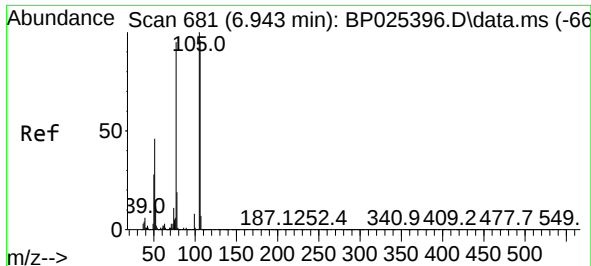
Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Tgt Ion:128 Resp: 20804

Ion	Ratio	Lower	Upper
128	100		
130	31.5	12.6	52.6
64	57.2	23.4	63.4

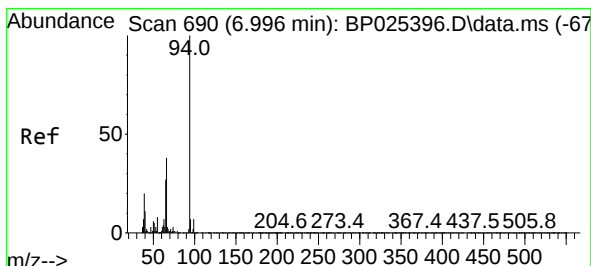
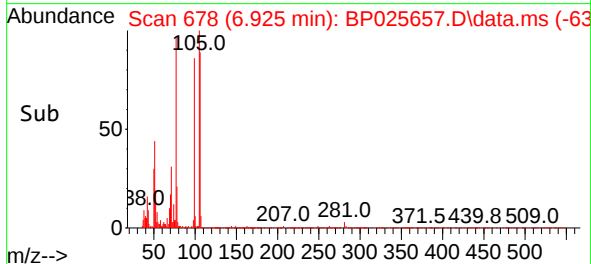
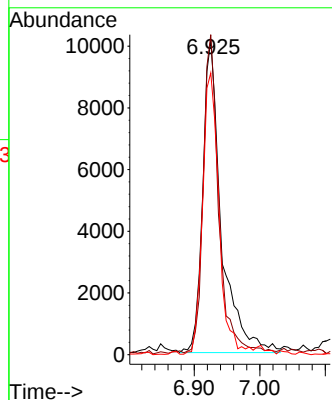
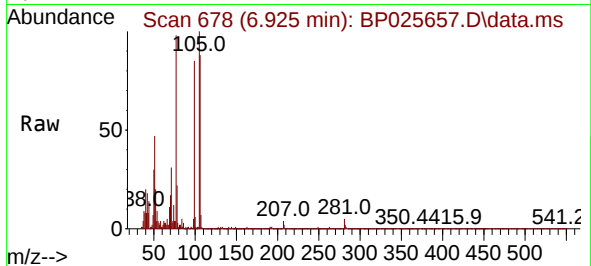




#9
Benzaldehyde
Concen: 2.863 ng
RT: 6.925 min Scan# 61
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

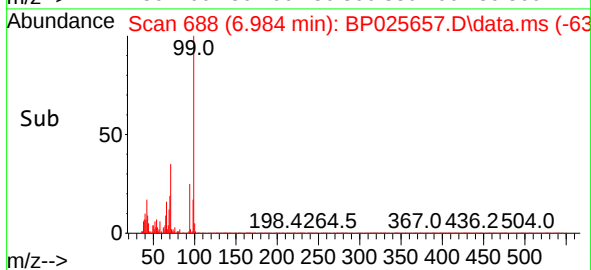
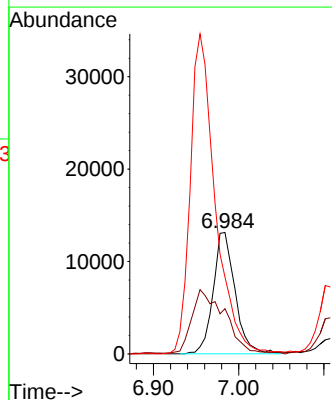
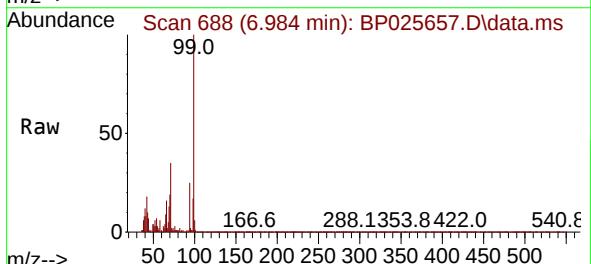
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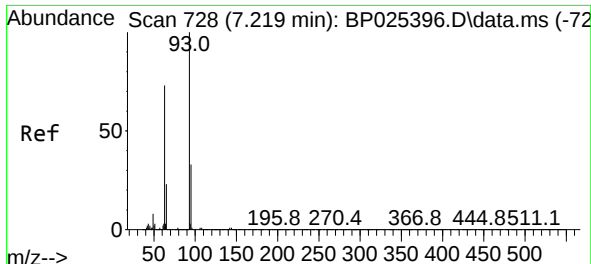
Tgt Ion:	77	Resp:	20058
Ion	Ratio	Lower	Upper
77	100		
105	101.7	84.8	124.8
106	89.6	80.5	120.5



#10
Phenol
Concen: 2.238 ng
RT: 6.984 min Scan# 688
Delta R.T. -0.012 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:	94	Resp:	23485
Ion	Ratio	Lower	Upper
94	100		
65	37.3	6.8	46.8
66	63.3	18.2	58.2

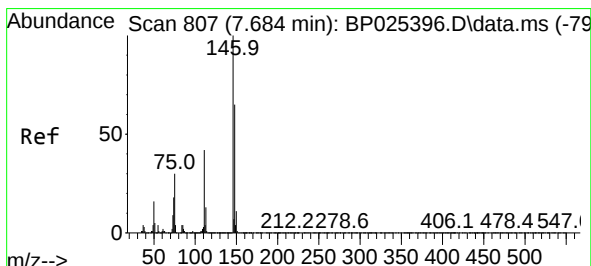
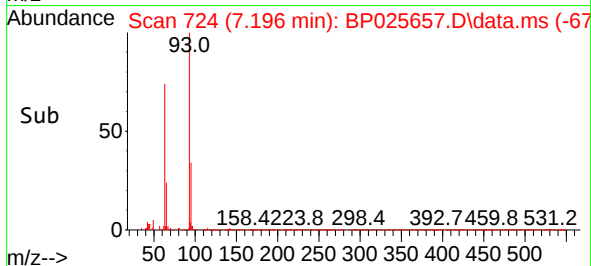
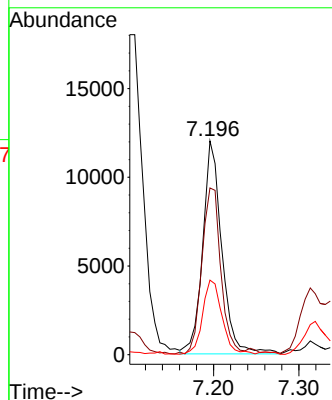
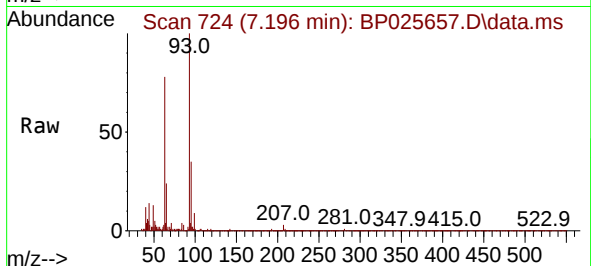




#11
bis(2-Chloroethyl)ether
Concen: 2.295 ng
RT: 7.196 min Scan# 71
Delta R.T. -0.024 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

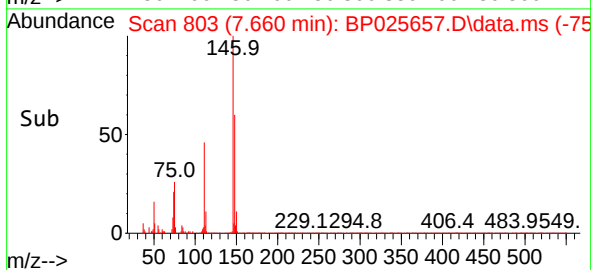
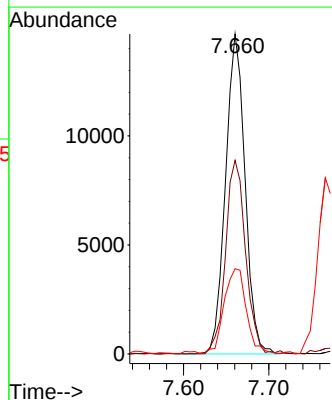
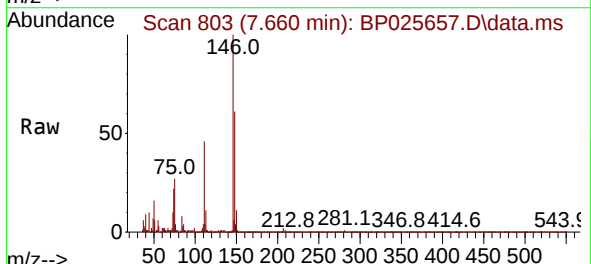
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

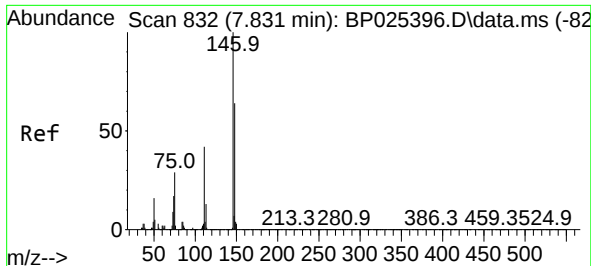
Tgt Ion: 93 Resp: 18767
Ion Ratio Lower Upper
93 100
63 78.0 52.6 92.6
95 34.9 12.7 52.7



#12
1,3-Dichlorobenzene
Concen: 2.404 ng
RT: 7.660 min Scan# 803
Delta R.T. -0.023 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion: 146 Resp: 23331
Ion Ratio Lower Upper
146 100
148 60.5 51.9 77.9
75 26.6 23.7 35.5

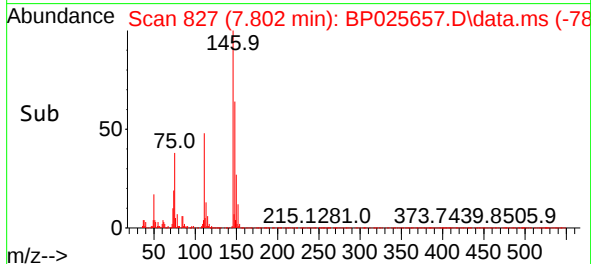
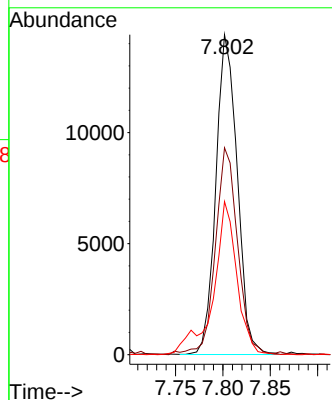
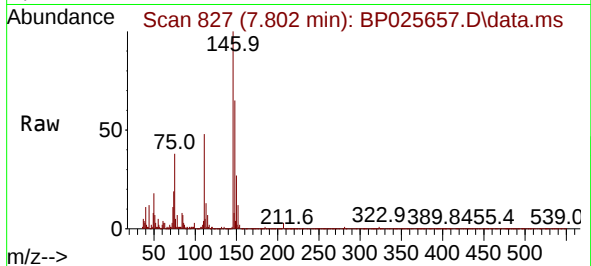




#13
1,4-Dichlorobenzene
Concen: 2.276 ng
RT: 7.802 min Scan# 81
Delta R.T. -0.029 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

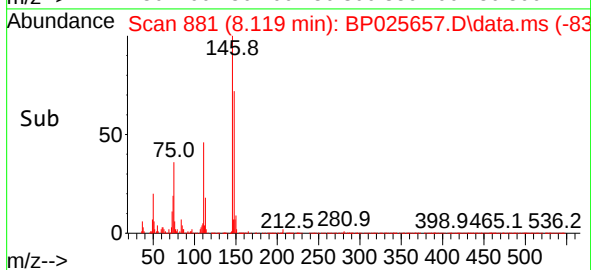
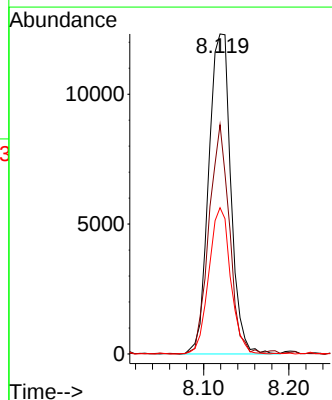
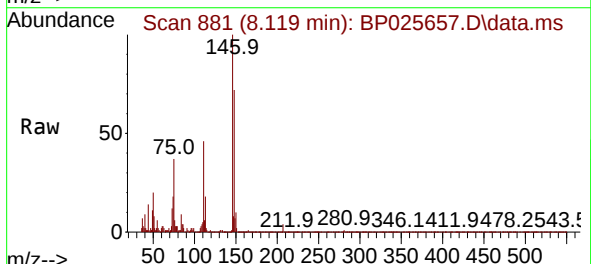
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

Tgt Ion:146 Resp: 22575
Ion Ratio Lower Upper
146 100
148 64.6 51.6 77.4
111 47.8 33.4 50.0



#14
1,2-Dichlorobenzene
Concen: 2.315 ng
RT: 8.119 min Scan# 881
Delta R.T. -0.023 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:146 Resp: 22232
Ion Ratio Lower Upper
146 100
148 71.6 50.4 75.6
111 45.7 34.5 51.7

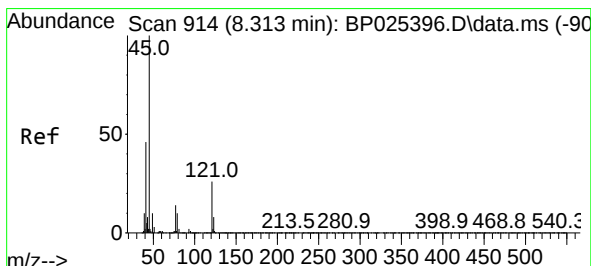
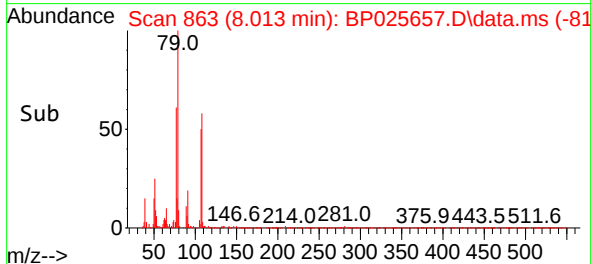
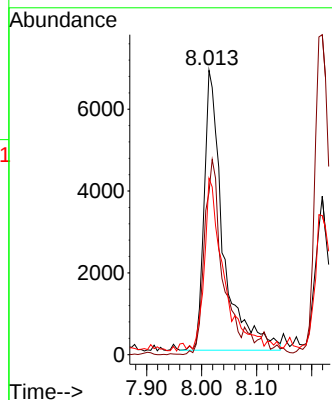
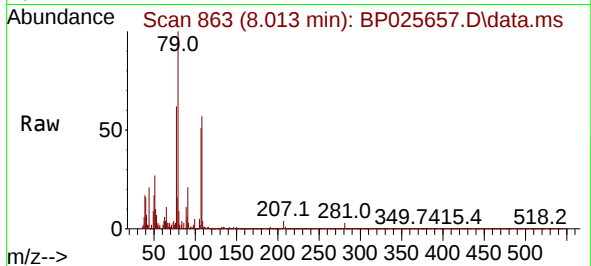




#15
Benzyl Alcohol
Concen: 2.062 ng
RT: 8.013 min Scan# 80
Delta R.T. -0.012 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

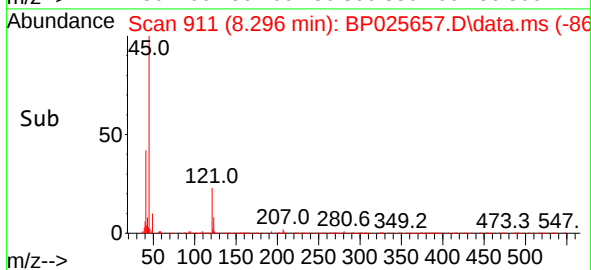
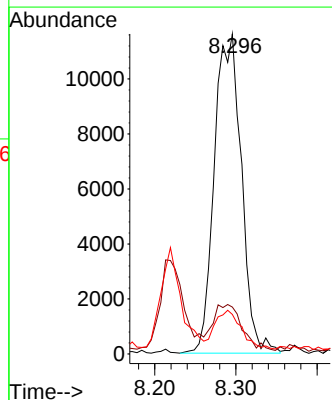
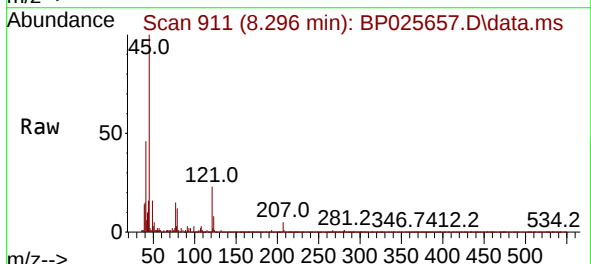
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

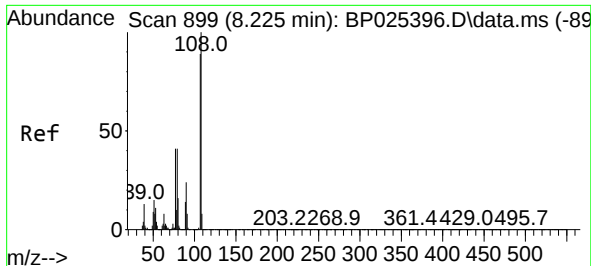
Tgt Ion: 79 Resp: 16385
Ion Ratio Lower Upper
79 100
108 57.1 63.8 95.6#
77 62.0 49.0 73.4



#16
2,2'-oxybis(1-Chloropropane)
Concen: 2.451 ng
RT: 8.296 min Scan# 911
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion: 45 Resp: 26853
Ion Ratio Lower Upper
45 100
77 14.7 0.0 35.3
79 12.3 0.0 31.8

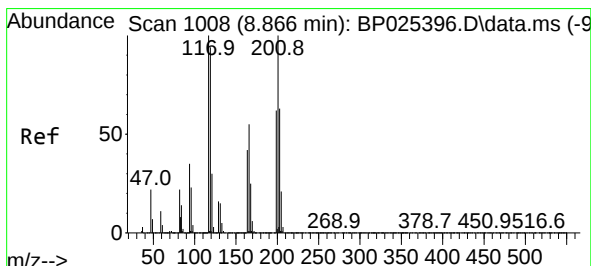
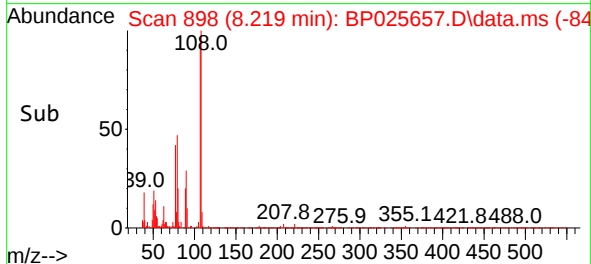
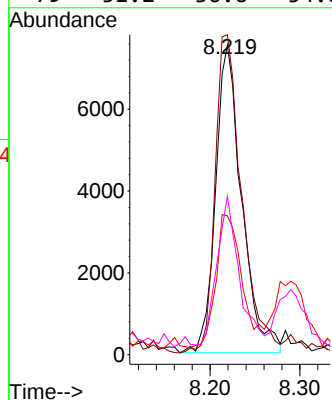
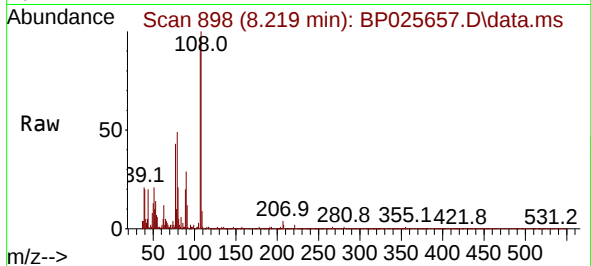




#17
2-Methylphenol
Concen: 2.083 ng
RT: 8.219 min Scan# 899
Delta R.T. -0.006 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

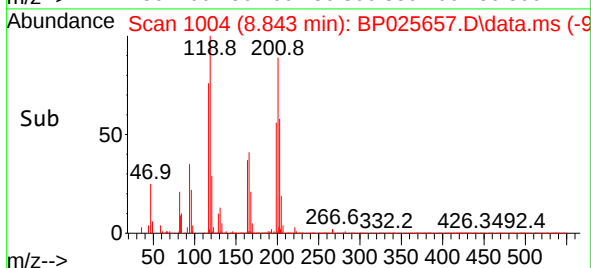
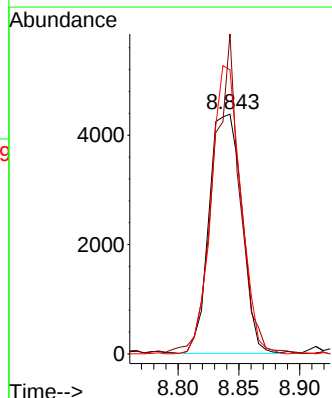
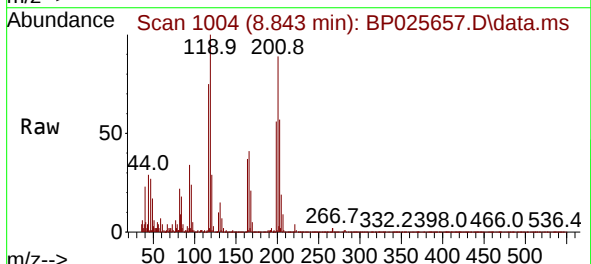
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

Tgt Ion:	107	Resp:	15179
Ion	Ratio	Lower	Upper
107	100		
108	103.4	89.4	134.0
77	44.9	36.3	54.5
79	51.2	36.6	54.8



#18
Hexachloroethane
Concen: 2.260 ng
RT: 8.843 min Scan# 1004
Delta R.T. -0.023 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:	117	Resp:	8241
Ion	Ratio	Lower	Upper
117	100		
119	133.5	75.1	112.7#
201	118.5	80.1	120.1

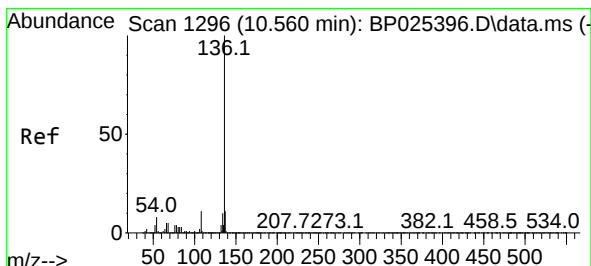
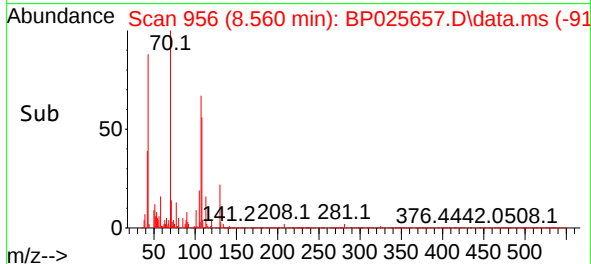
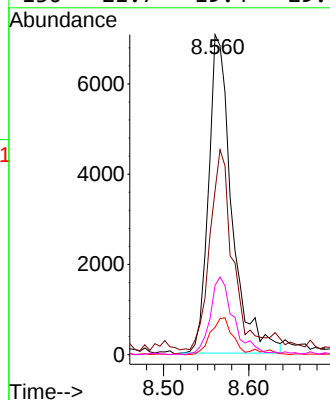
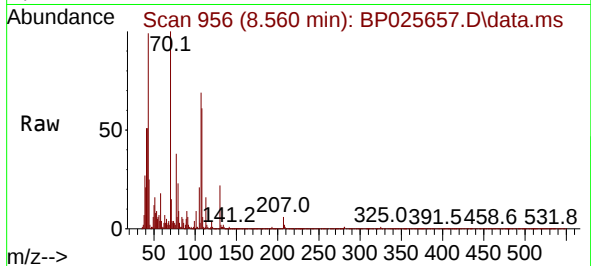




#19
n-Nitroso-di-n-propylamine
Concen: 2.019 ng
RT: 8.560 min Scan# 91
Delta R.T. -0.029 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

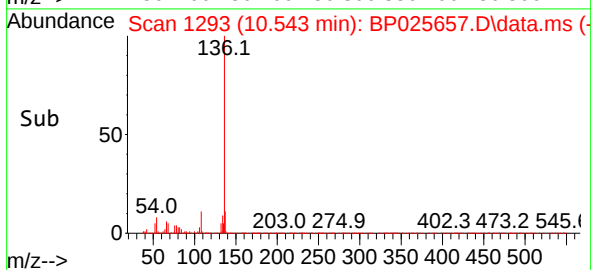
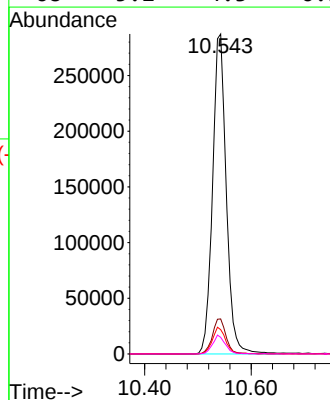
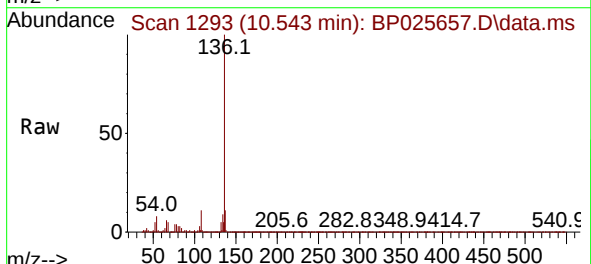
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

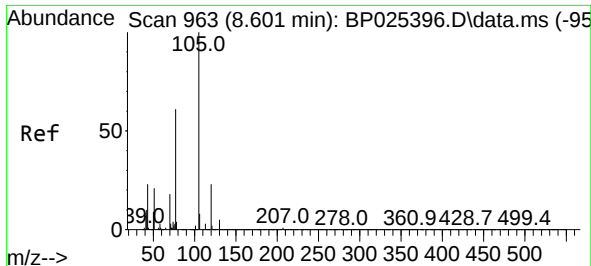
Tgt Ion:	70	Resp:	13375
Ion	Ratio	Lower	Upper
70	100		
42	51.4	43.8	65.6
101	8.5	8.5	12.7
130	21.7	19.4	29.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.543 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:	136	Resp:	513672
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	7.6	6.0	9.0
68	5.2	4.3	6.5

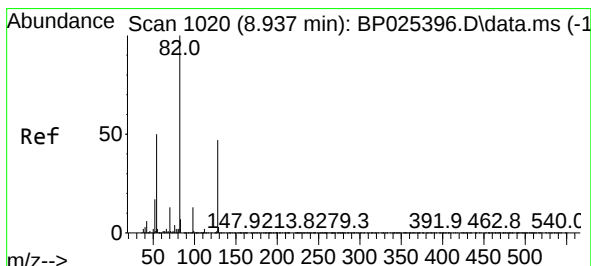
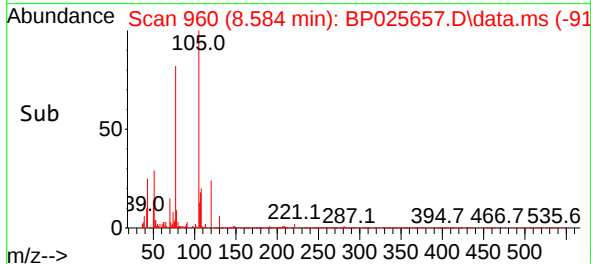
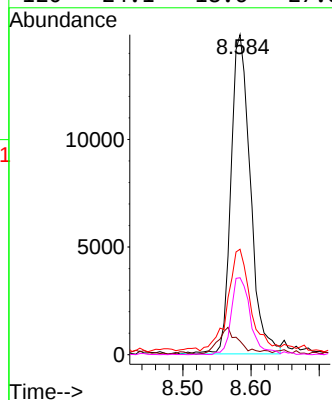
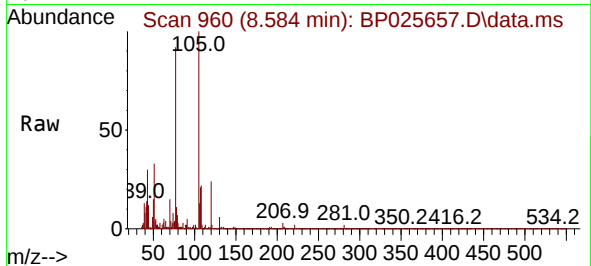




#22
Acetophenone
Concen: 2.282 ng
RT: 8.584 min Scan# 910
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

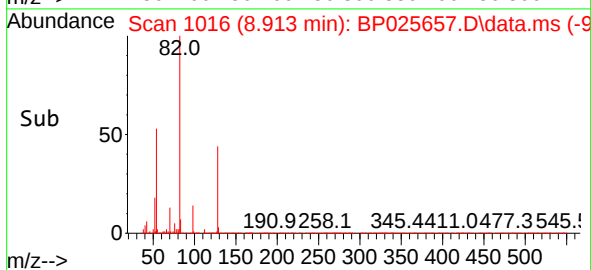
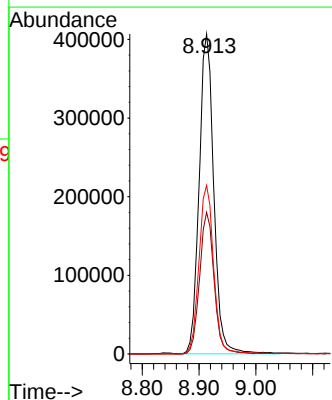
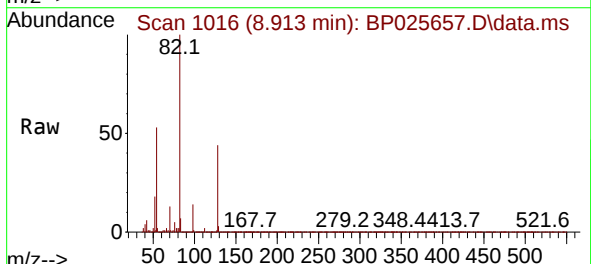
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

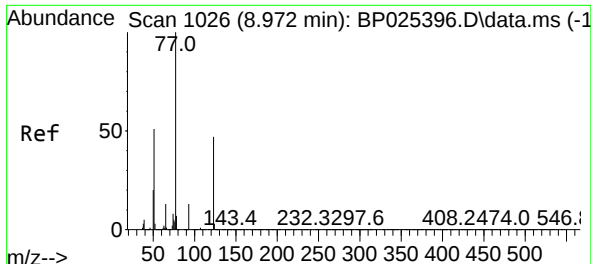
Tgt Ion:	105	Resp:	29396
Ion	Ratio	Lower	Upper
105	100		
71	4.3	2.6	4.0#
51	33.0	20.6	30.8#
120	24.1	18.6	27.8



#23
Nitrobenzene-d5
Concen: 71.742 ng
RT: 8.913 min Scan# 1016
Delta R.T. -0.023 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:	82	Resp:	728511
Ion	Ratio	Lower	Upper
82	100		
128	44.3	37.7	56.5
54	52.7	39.8	59.6

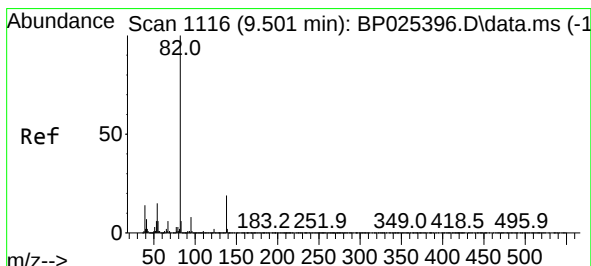
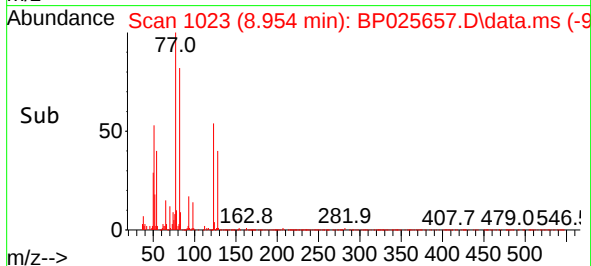
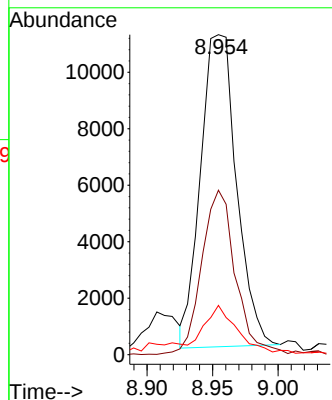
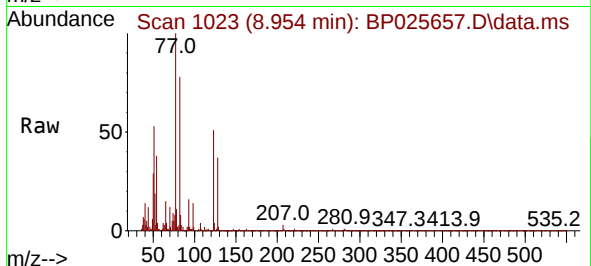




#24
Nitrobenzene
Concen: 2.329 ng
RT: 8.954 min Scan# 1026
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

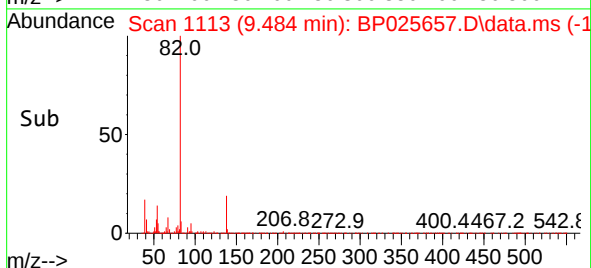
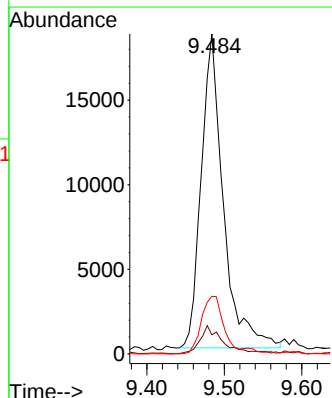
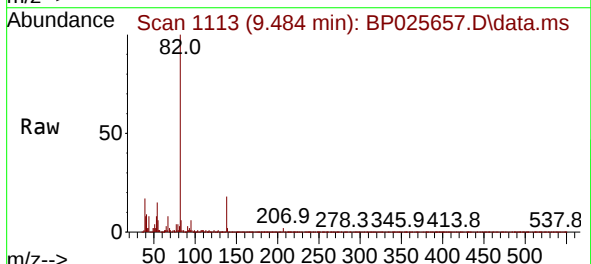
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

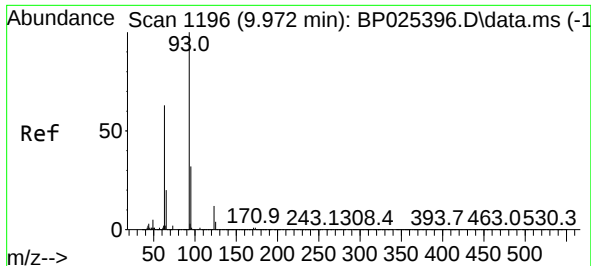
Tgt Ion: 77 Resp: 21136
Ion Ratio Lower Upper
77 100
123 51.4 38.6 58.0
65 15.4 10.6 15.8



#25
Isophorone
Concen: 2.053 ng
RT: 9.484 min Scan# 1113
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion: 82 Resp: 36886
Ion Ratio Lower Upper
82 100
95 6.0 6.4 9.6#
138 18.0 15.4 23.0

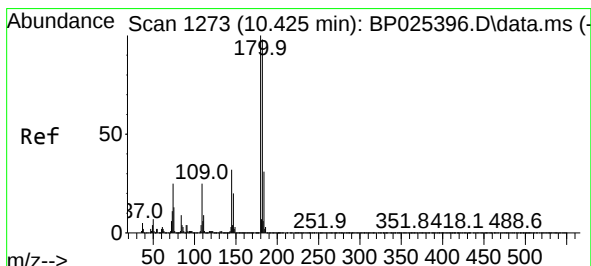
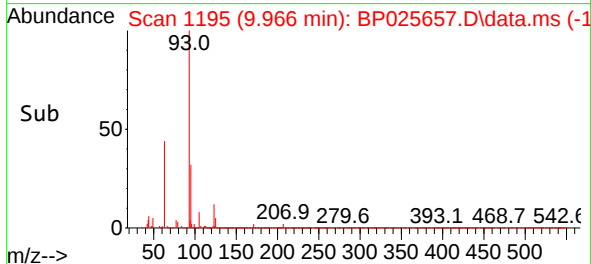
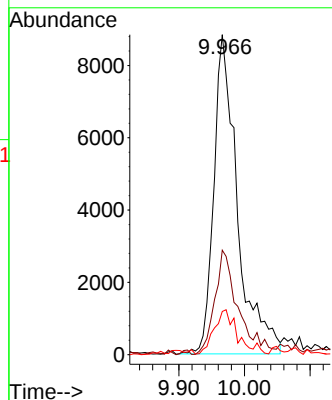
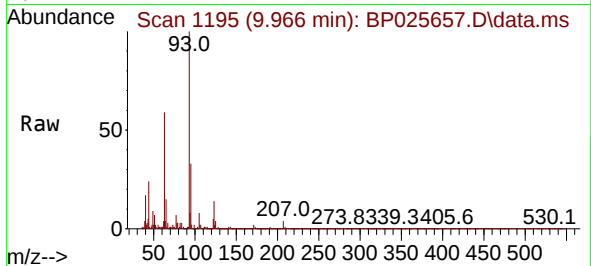




#28
bis(2-Chloroethoxy)methane
Concen: 2.030 ng
RT: 9.966 min Scan# 1196
Delta R.T. -0.006 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

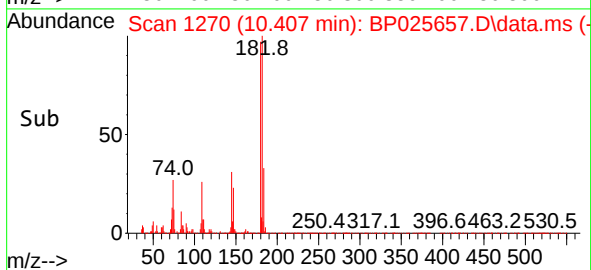
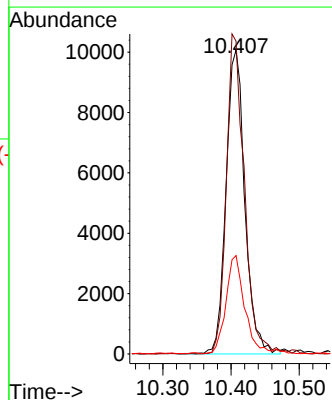
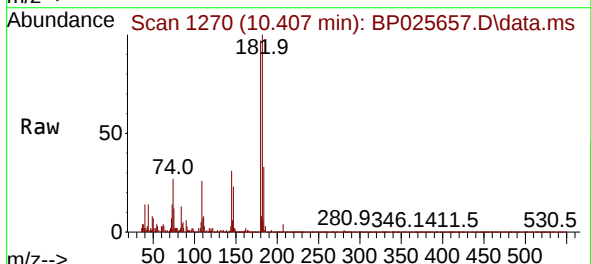
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

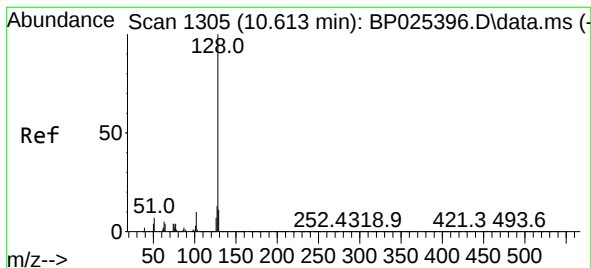
Tgt Ion: 93	Resp:	22055
Ion	Ratio	Lower Upper
93	100	
95	32.7	25.4 38.0
123	13.5	9.4 14.0



#30
1,2,4-Trichlorobenzene
Concen: 2.219 ng
RT: 10.407 min Scan# 1270
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion: 180	Resp:	19354
Ion	Ratio	Lower Upper
180	100	
182	103.0	78.0 117.0
145	32.4	25.9 38.9





#31

Naphthalene

Concen: 2.269 ng

RT: 10.590 min Scan# 11

Delta R.T. -0.024 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

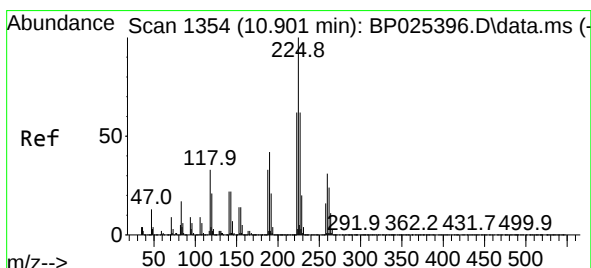
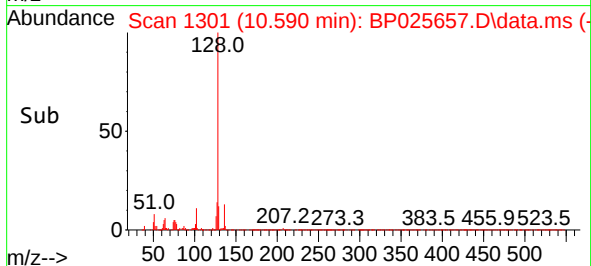
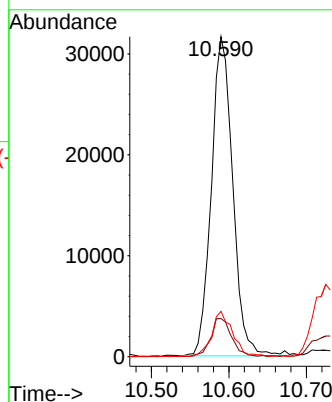
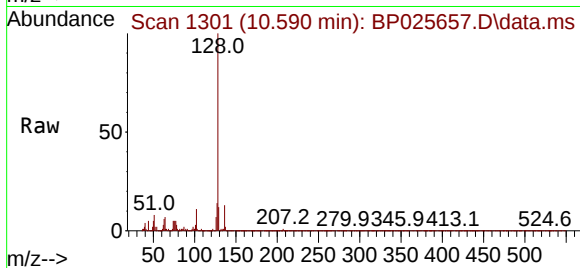
Tgt Ion:128 Resp: 60579

Ion Ratio Lower Upper

128 100

129 11.9 8.6 13.0

127 14.1 10.7 16.1



#34

Hexachlorobutadiene

Concen: 2.380 ng

RT: 10.872 min Scan# 1349

Delta R.T. -0.029 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

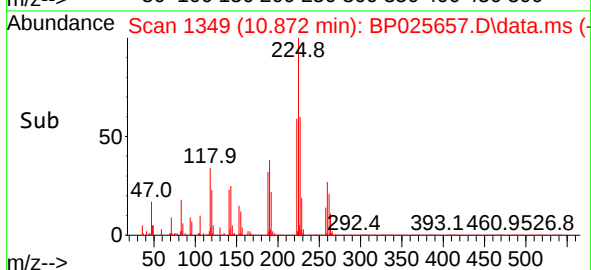
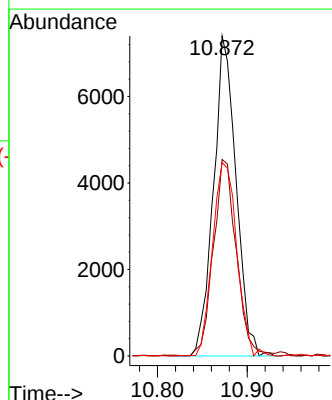
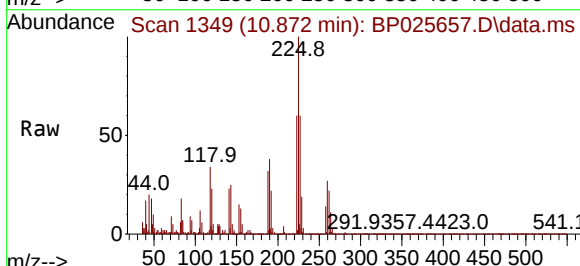
Tgt Ion:225 Resp: 12929

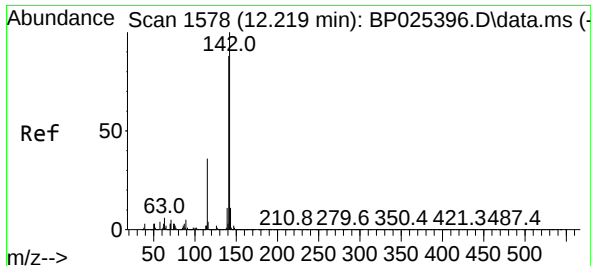
Ion Ratio Lower Upper

225 100

223 61.4 50.0 75.0

227 60.4 49.7 74.5

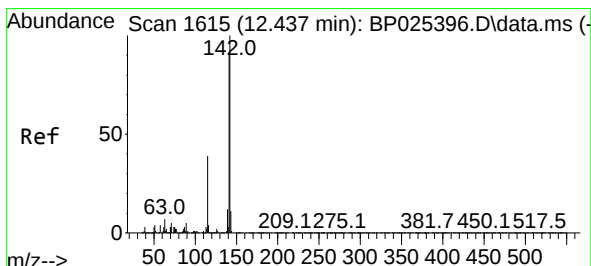
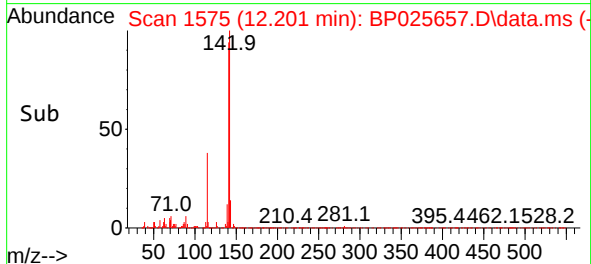
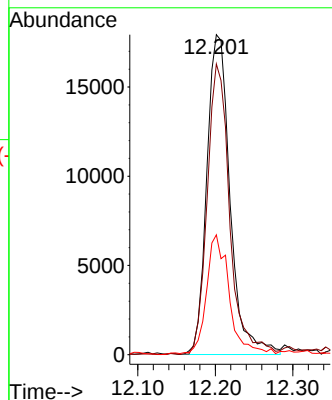
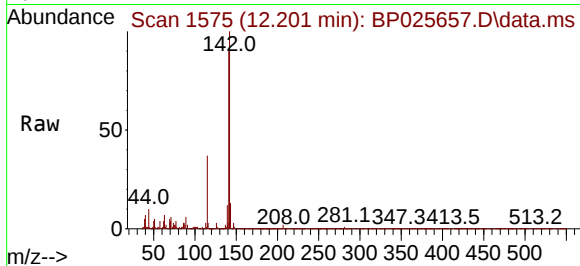




#37
2-Methylnaphthalene
Concen: 2.152 ng
RT: 12.201 min Scan# 1575
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

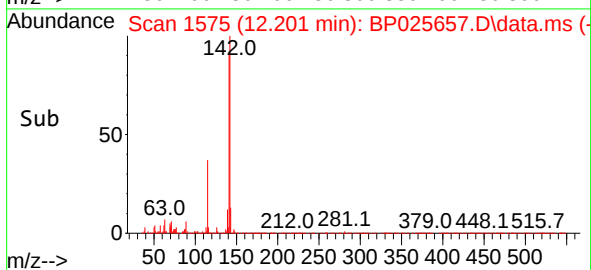
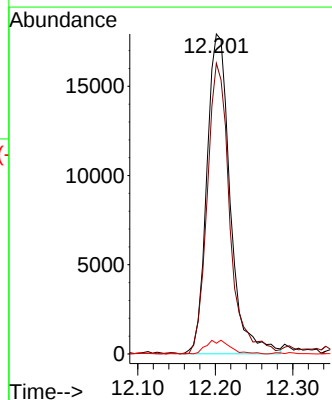
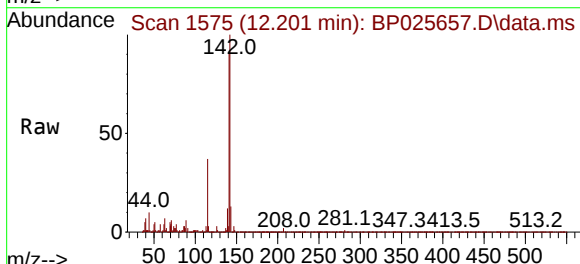
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

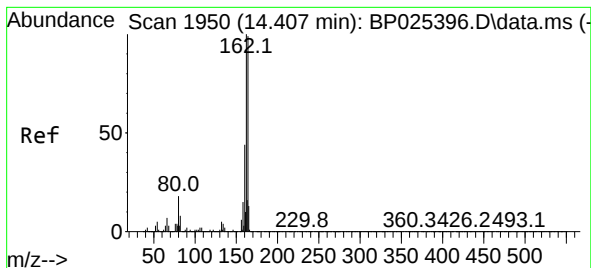
Tgt Ion:142 Resp: 37384
Ion Ratio Lower Upper
142 100
141 90.9 70.3 105.5
115 37.5 28.9 43.3



#38
1-Methylnaphthalene
Concen: 2.023 ng
RT: 12.201 min Scan# 1575
Delta R.T. -0.235 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:142 Resp: 37384
Ion Ratio Lower Upper
142 100
141 90.9 73.1 109.7
116 3.3 3.2 4.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.395 min Scan# 1950

Delta R.T. -0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

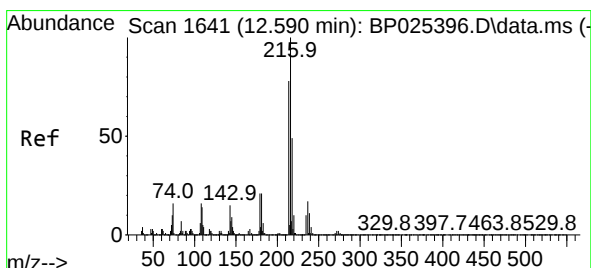
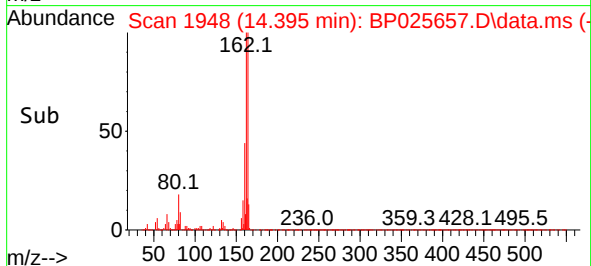
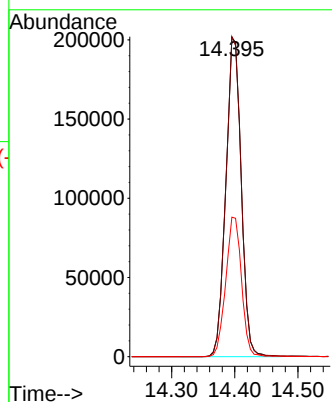
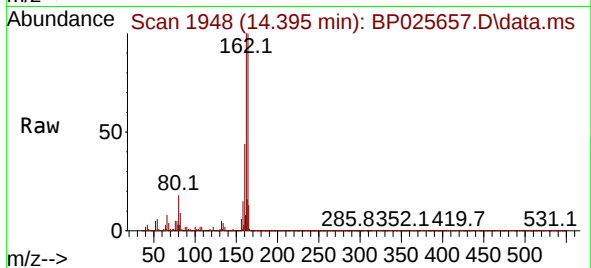
Tgt Ion:164 Resp: 340056

Ion Ratio Lower Upper

164 100

162 100.2 81.0 121.6

160 43.7 35.4 53.2



#40

1,2,4,5-Tetrachlorobenzene

Concen: 2.182 ng

RT: 12.578 min Scan# 1639

Delta R.T. -0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Tgt Ion:216 Resp: 21430

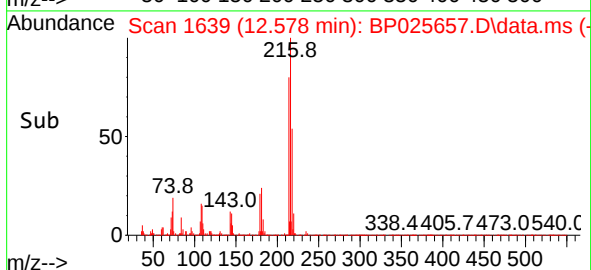
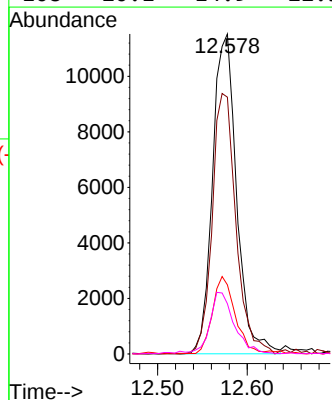
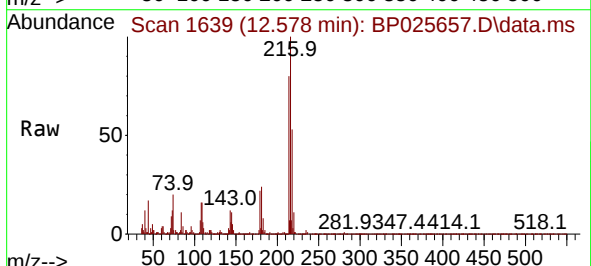
Ion Ratio Lower Upper

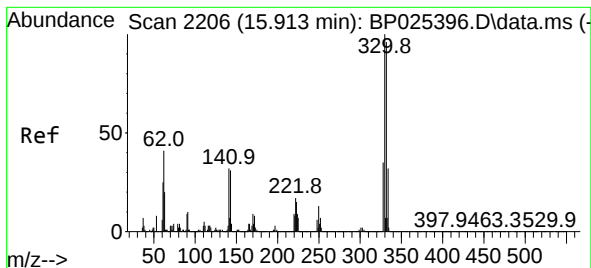
216 100

214 80.3 63.0 94.4

179 22.4 17.1 25.7

108 20.1 14.9 22.3





#42

2,4,6-Tribromophenol

Concen: 130.802 ng

RT: 15.919 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

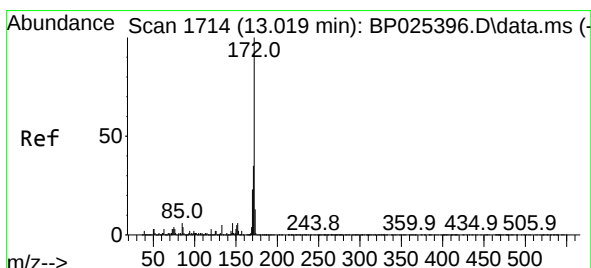
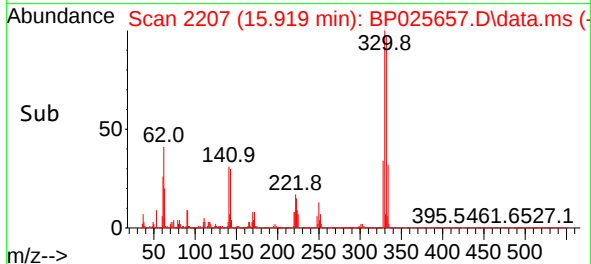
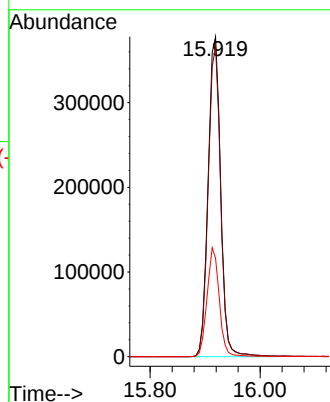
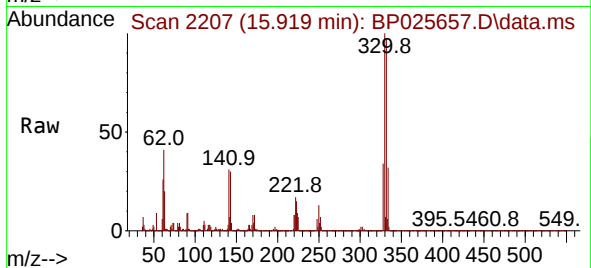
Tgt Ion:330 Resp: 598705

Ion Ratio Lower Upper

330 100

332 96.2 77.3 115.9

141 33.3 26.6 39.8



#45

2-Fluorobiphenyl

Concen: 66.959 ng

RT: 13.001 min Scan# 1711

Delta R.T. -0.018 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

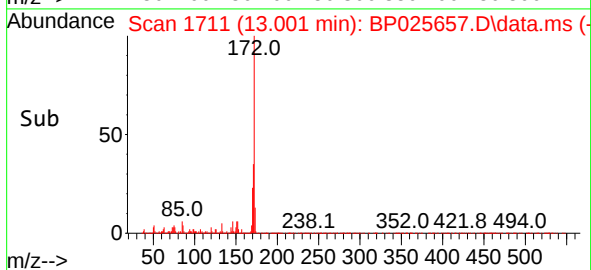
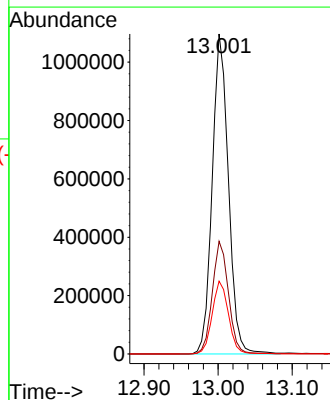
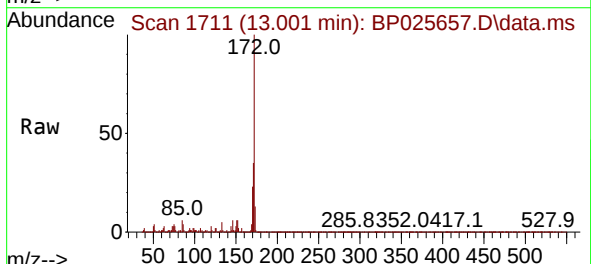
Tgt Ion:172 Resp: 1666067

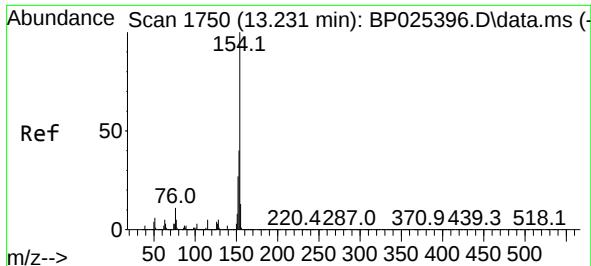
Ion Ratio Lower Upper

172 100

171 35.2 28.1 42.1

170 22.8 18.6 28.0

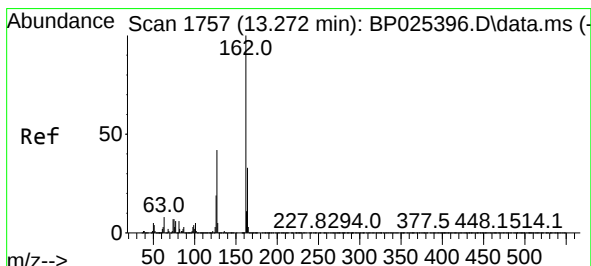
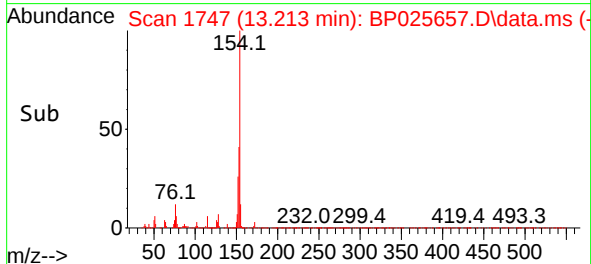
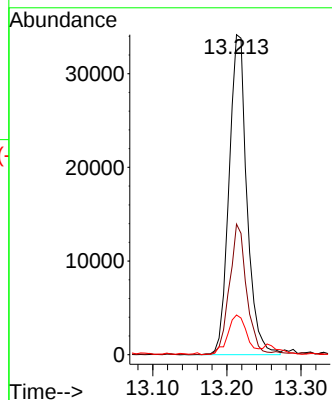
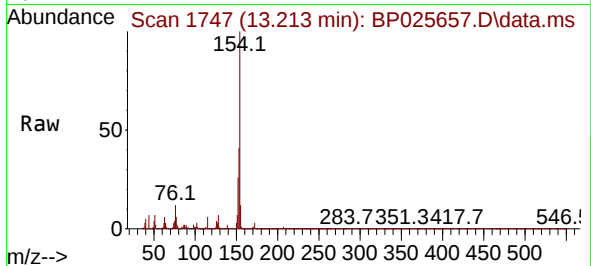




#46
1,1'-Biphenyl
Concen: 2.310 ng
RT: 13.213 min Scan# 1750
Delta R.T. -0.018 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

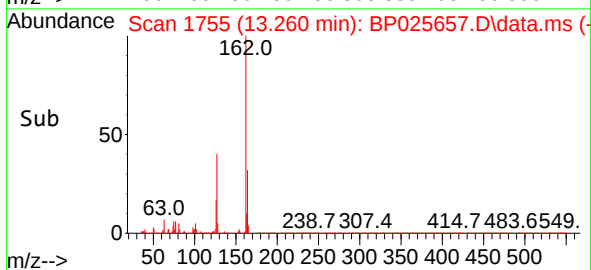
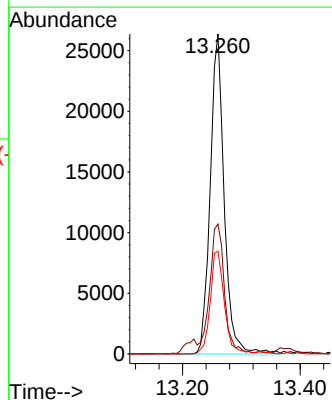
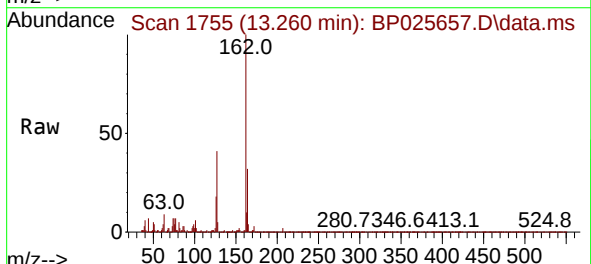
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

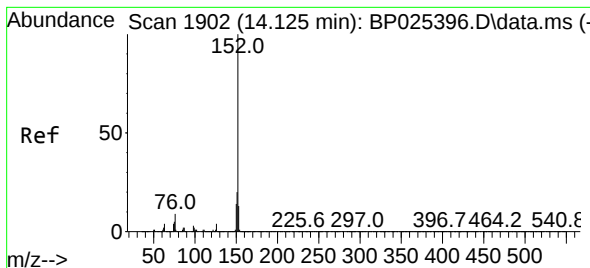
Tgt Ion:154 Resp: 57045
Ion Ratio Lower Upper
154 100
153 40.8 19.5 59.5
76 12.4 0.0 31.1



#47
2-Chloronaphthalene
Concen: 2.266 ng
RT: 13.260 min Scan# 1755
Delta R.T. -0.012 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:162 Resp: 43565
Ion Ratio Lower Upper
162 100
127 40.6 33.4 50.2
164 32.1 26.2 39.2





#49

Acenaphthylene

Concen: 2.186 ng

RT: 14.119 min Scan# 1902

Delta R.T. -0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

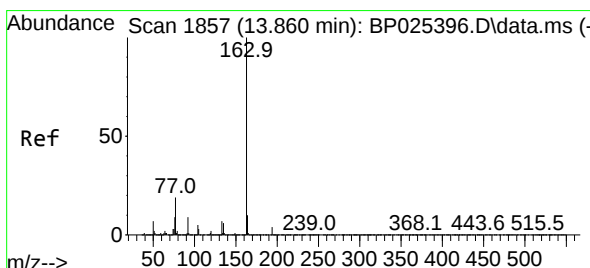
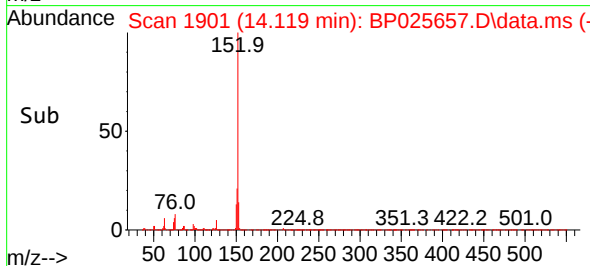
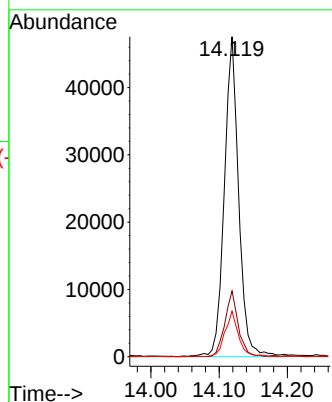
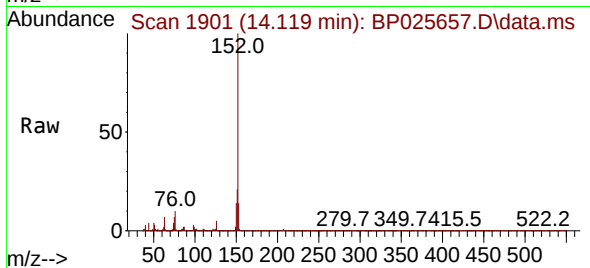
Tgt Ion:152 Resp: 69536

Ion Ratio Lower Upper

152 100

151 20.5 16.0 24.0

153 14.2 10.6 15.8



#50

Dimethylphthalate

Concen: 2.283 ng

RT: 13.848 min Scan# 1855

Delta R.T. -0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

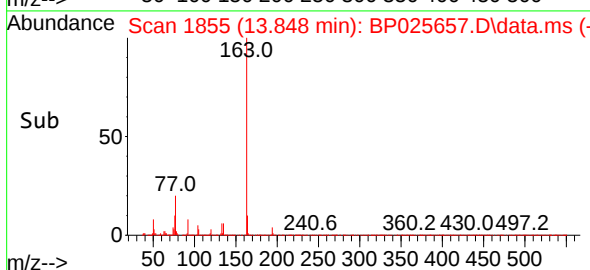
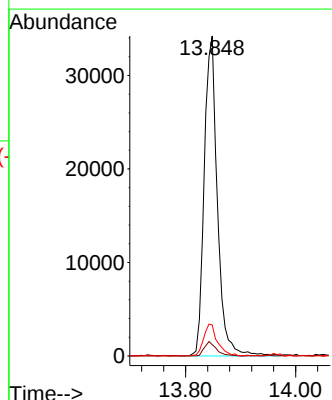
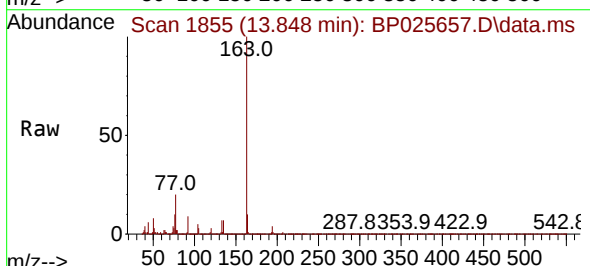
Tgt Ion:163 Resp: 56861

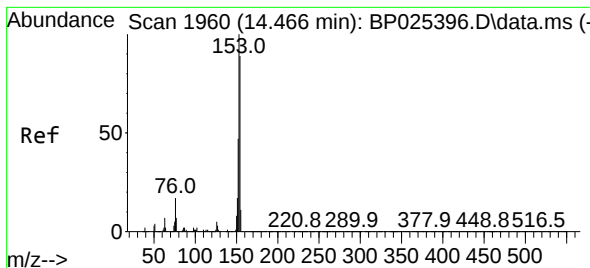
Ion Ratio Lower Upper

163 100

194 3.5 3.4 5.0

164 9.7 7.9 11.9





#52

Acenaphthene

Concen: 2.327 ng

RT: 14.460 min Scan# 1960

Delta R.T. -0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

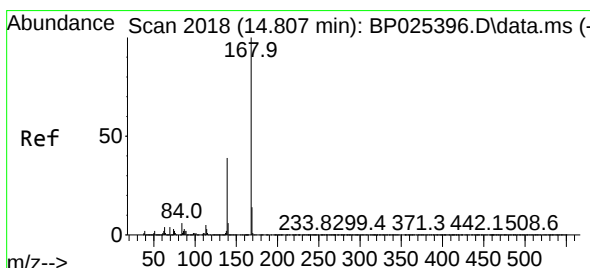
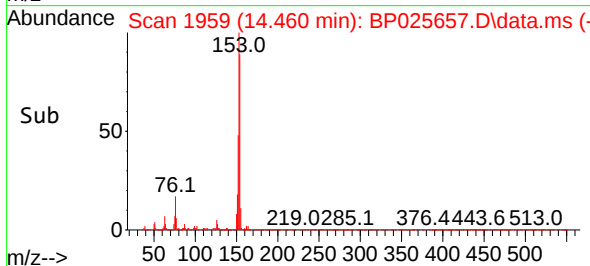
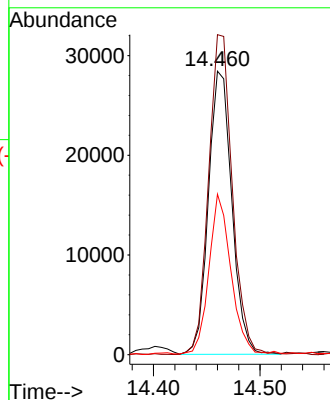
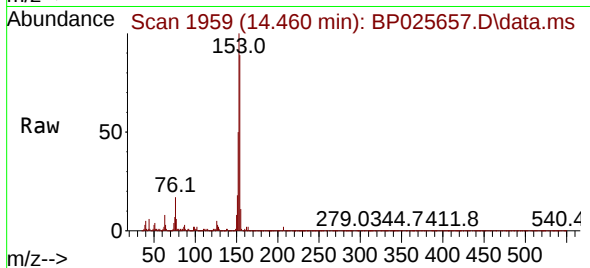
Tgt Ion:154 Resp: 43451

Ion Ratio Lower Upper

154 100

153 112.9 90.2 135.2

152 56.6 42.1 63.1



#55

Dibenzofuran

Concen: 2.312 ng

RT: 14.807 min Scan# 2018

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

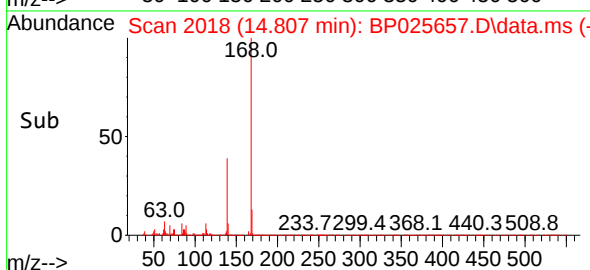
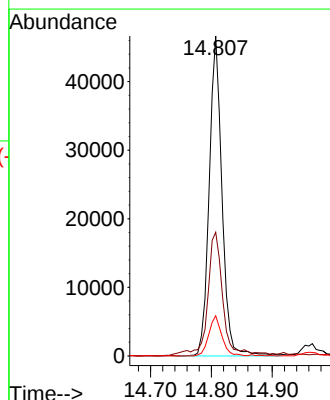
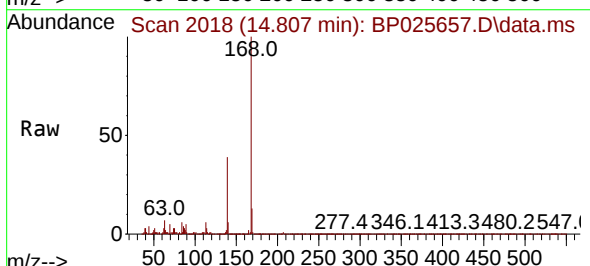
Tgt Ion:168 Resp: 68262

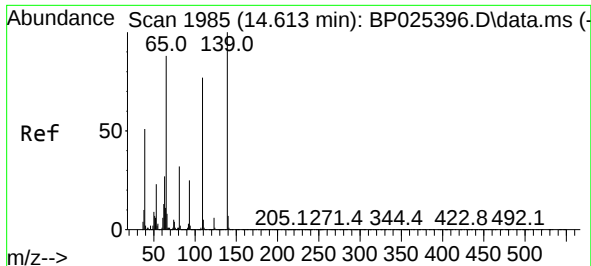
Ion Ratio Lower Upper

168 100

139 38.7 31.5 47.3

169 12.5 10.9 16.3

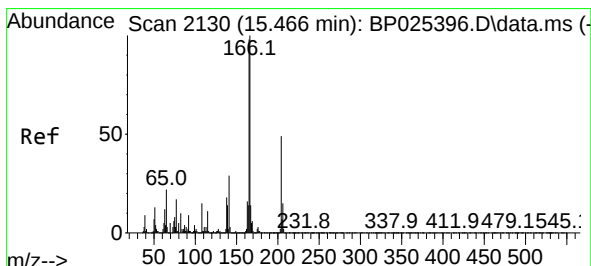
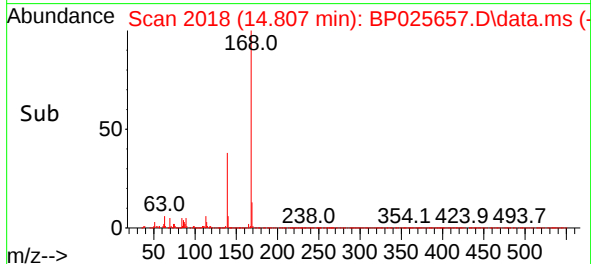
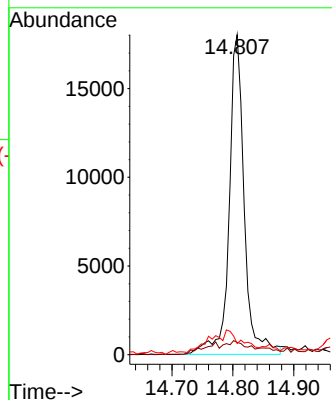
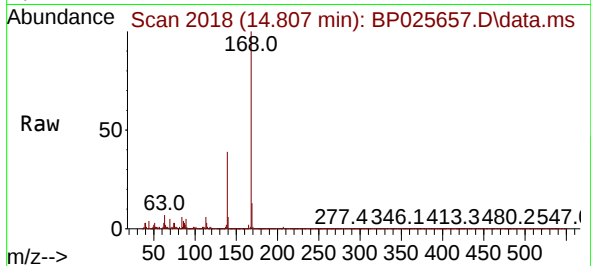




#56
4-Nitrophenol
Concen: 6.413 ng
RT: 14.807 min Scan# 20
Delta R.T. 0.194 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

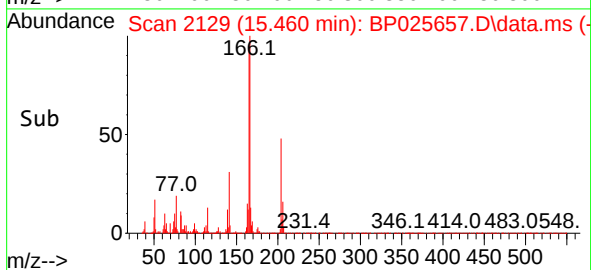
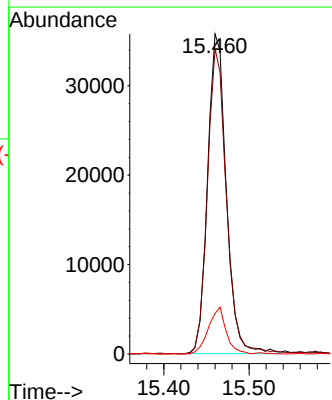
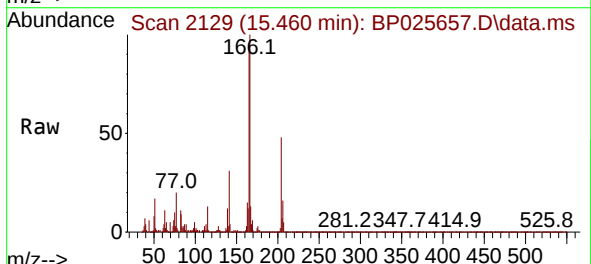
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

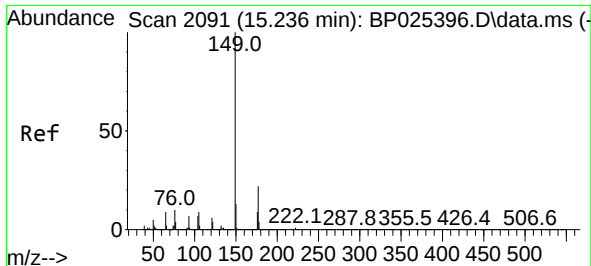
Tgt Ion:139 Resp: 31117
Ion Ratio Lower Upper
139 100
109 3.8 56.6 96.6#
65 3.5 68.2 108.2#



#58
Fluorene
Concen: 2.344 ng
RT: 15.460 min Scan# 2129
Delta R.T. -0.006 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:166 Resp: 54599
Ion Ratio Lower Upper
166 100
165 95.4 78.8 118.2
167 12.6 11.0 16.4

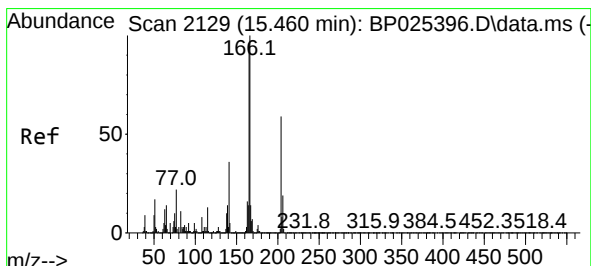
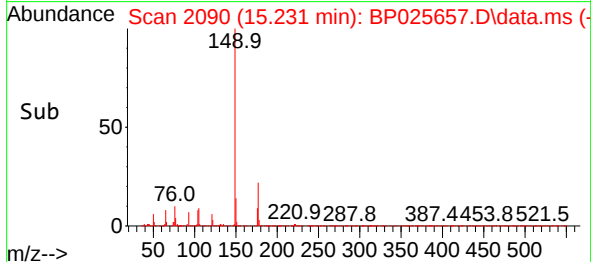
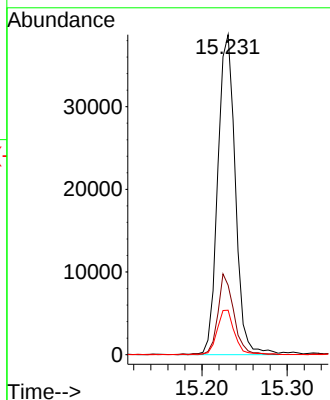
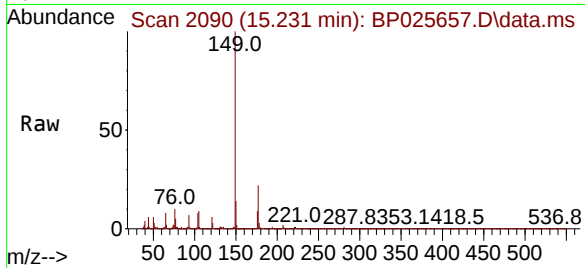




#60
Diethylphthalate
Concen: 2.187 ng
RT: 15.231 min Scan# 2091
Delta R.T. -0.006 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

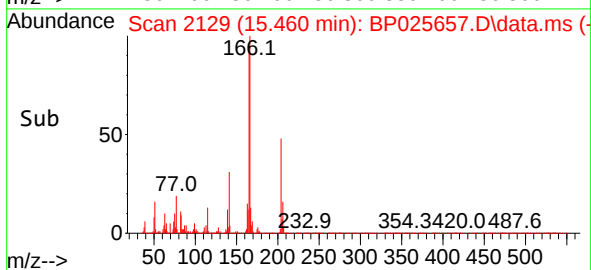
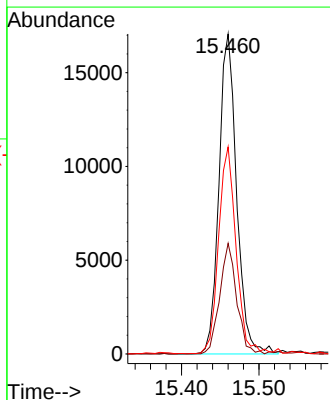
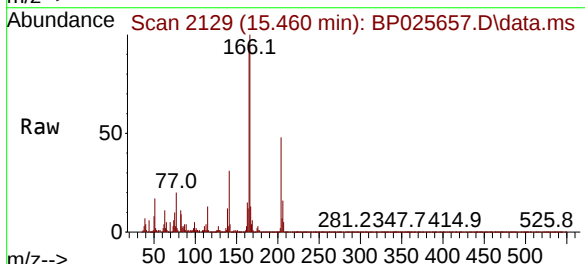
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

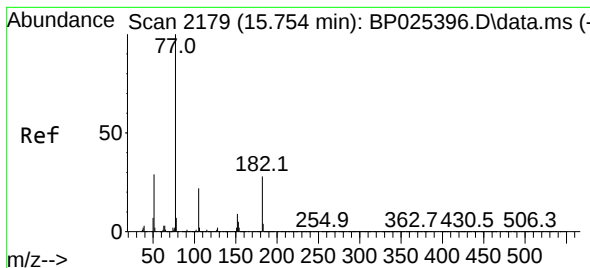
Tgt Ion:149 Resp: 55330
Ion Ratio Lower Upper
149 100
177 21.7 17.3 25.9
150 13.9 10.3 15.5



#61
4-Chlorophenyl-phenylether
Concen: 2.335 ng
RT: 15.460 min Scan# 2129
Delta R.T. 0.000 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:204 Resp: 27049
Ion Ratio Lower Upper
204 100
206 34.6 25.8 38.8
141 64.7 49.4 74.2





#63

Azobenzene

Concen: 2.234 ng

RT: 15.754 min Scan# 2179

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

Tgt Ion: 77 Resp: 48391

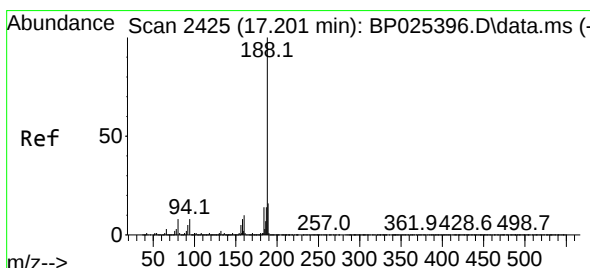
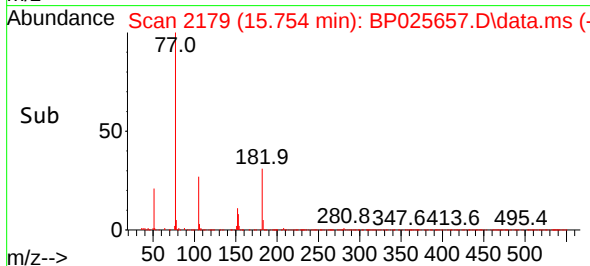
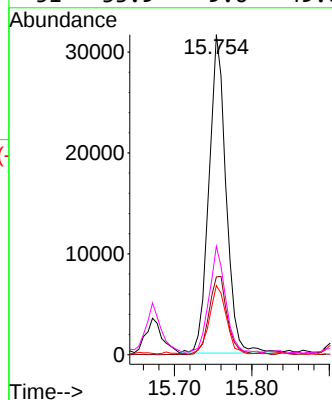
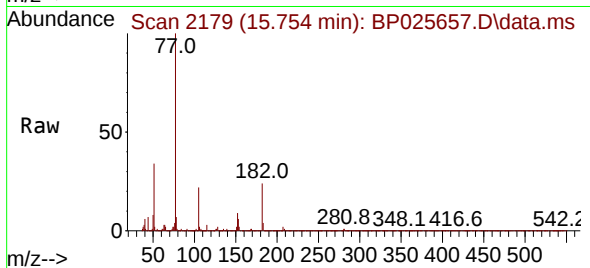
Ion Ratio Lower Upper

77 100

182 24.3 7.5 47.5

105 21.6 2.1 42.1

51 33.9 9.6 49.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.201 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

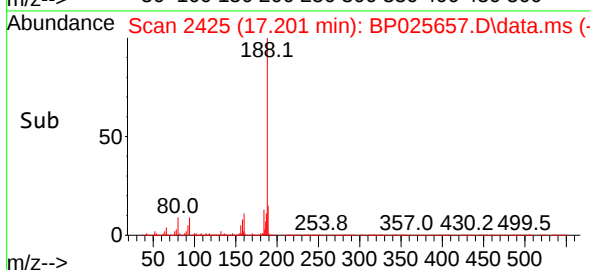
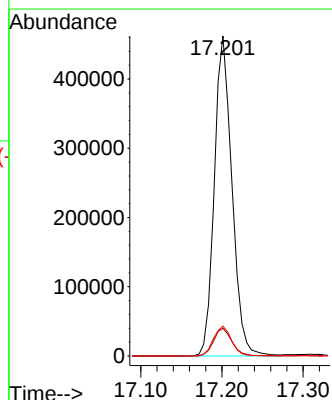
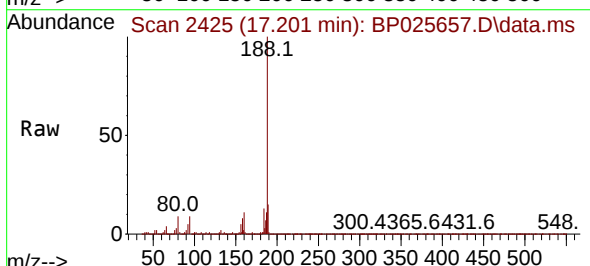
Tgt Ion:188 Resp: 697569

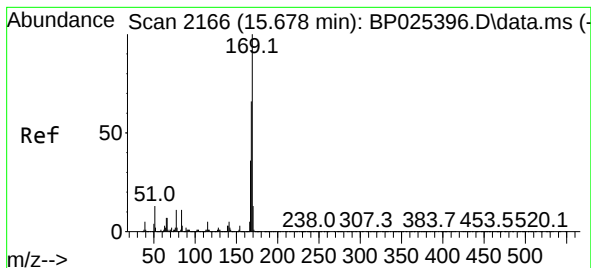
Ion Ratio Lower Upper

188 100

94 8.7 6.6 10.0

80 9.3 6.7 10.1





#66

n-Nitrosodiphenylamine

Concen: 2.123 ng

RT: 15.672 min Scan# 2166

Delta R.T. -0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

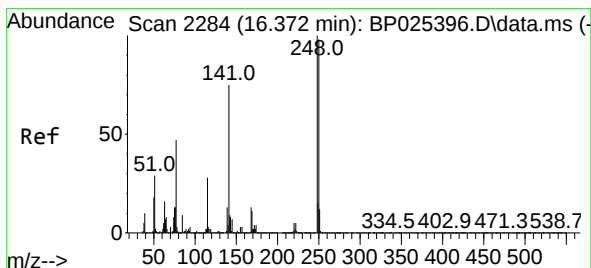
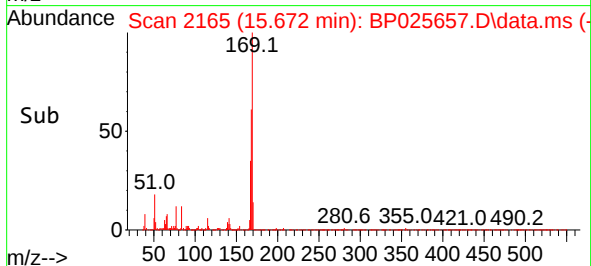
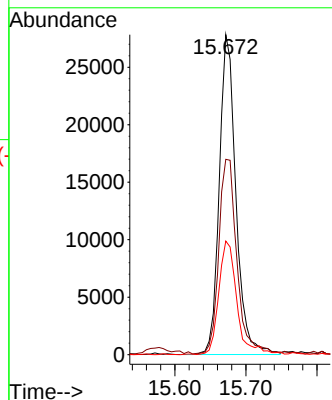
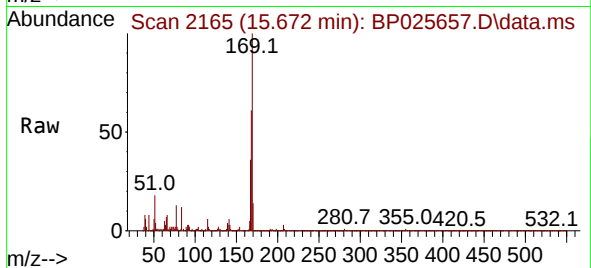
Tgt Ion:169 Resp: 45168

Ion Ratio Lower Upper

169 100

168 61.1 53.2 79.8

167 35.5 28.7 43.1



#67

4-Bromophenyl-phenylether

Concen: 2.251 ng

RT: 16.372 min Scan# 2284

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

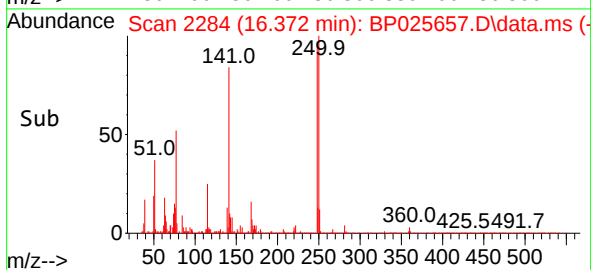
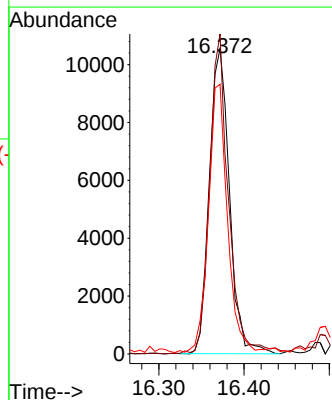
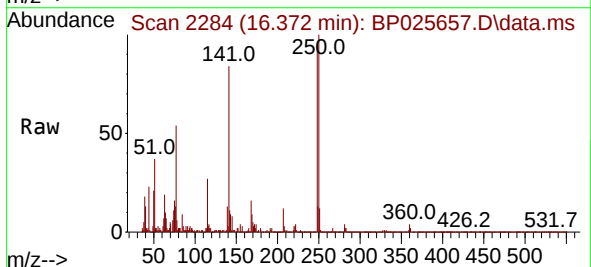
Tgt Ion:248 Resp: 17266

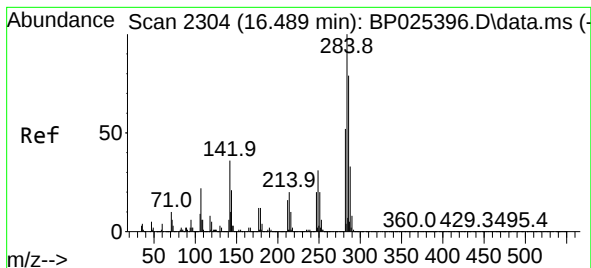
Ion Ratio Lower Upper

248 100

250 104.8 78.2 117.2

141 88.3 59.6 89.4





#68

Hexachlorobenzene

Concen: 2.288 ng

RT: 16.489 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

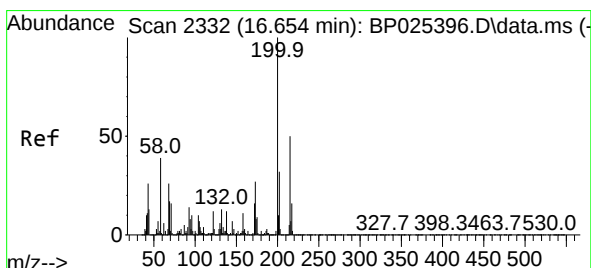
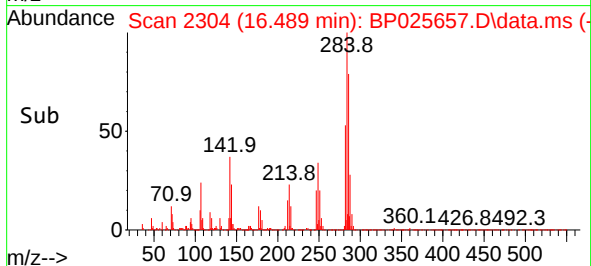
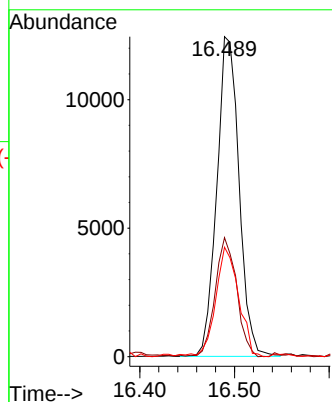
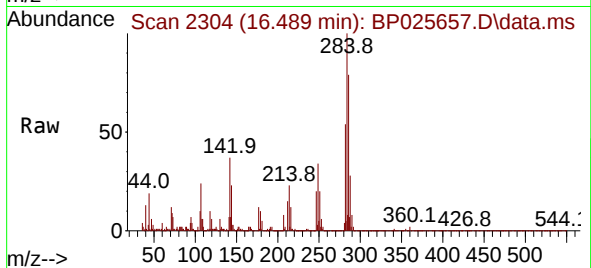
Tgt Ion:284 Resp: 20345

Ion Ratio Lower Upper

284 100

142 37.2 29.1 43.7

249 34.2 25.0 37.4



#69

Atrazine

Concen: 2.126 ng

RT: 16.654 min Scan# 2332

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

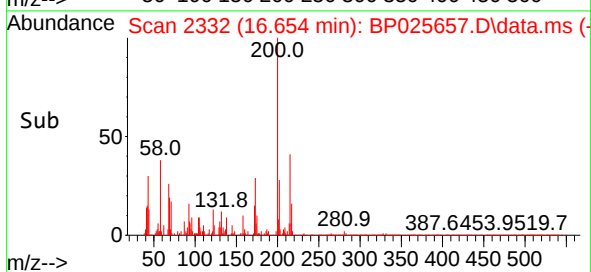
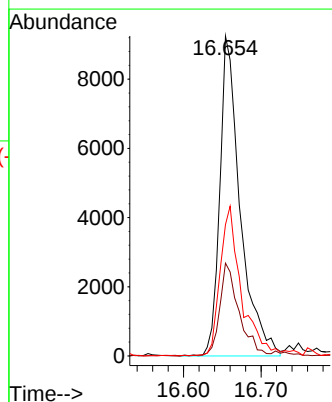
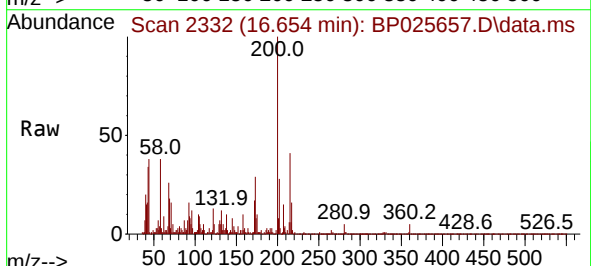
Tgt Ion:200 Resp: 16938

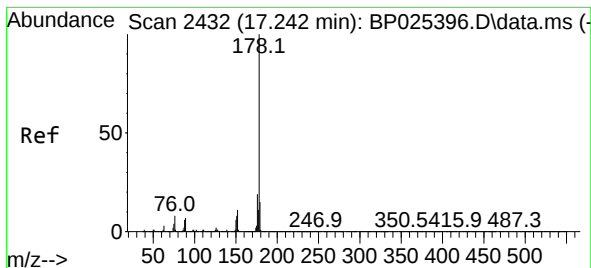
Ion Ratio Lower Upper

200 100

173 29.0 6.7 46.7

215 41.1 29.7 69.7





#71

Phenanthrene

Concen: 2.403 ng

RT: 17.242 min Scan# 2432

Delta R.T. 0.000 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

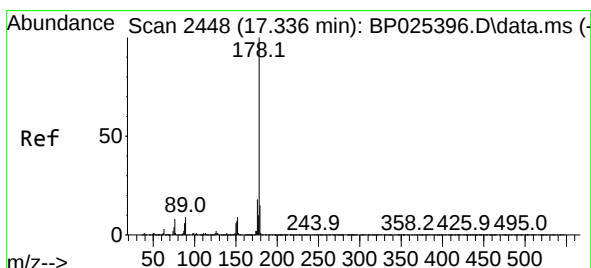
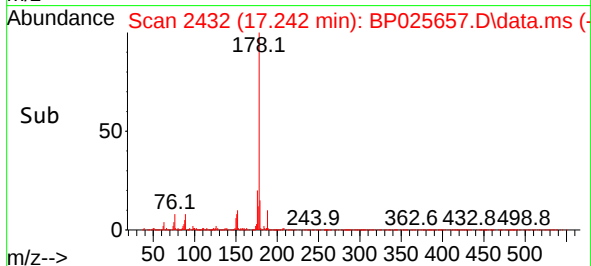
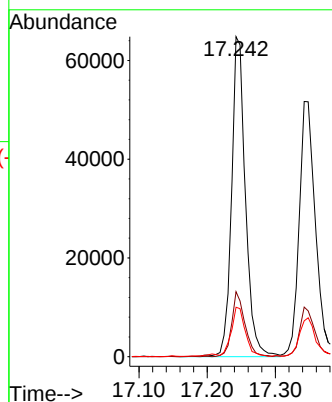
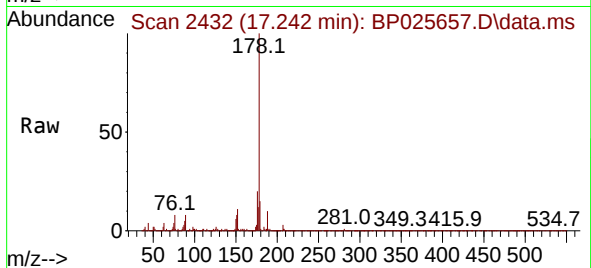
Tgt Ion:178 Resp: 92074

Ion Ratio Lower Upper

178 100

176 20.3 15.5 23.3

179 15.5 12.2 18.4



#72

Anthracene

Concen: 2.191 ng

RT: 17.342 min Scan# 2449

Delta R.T. 0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

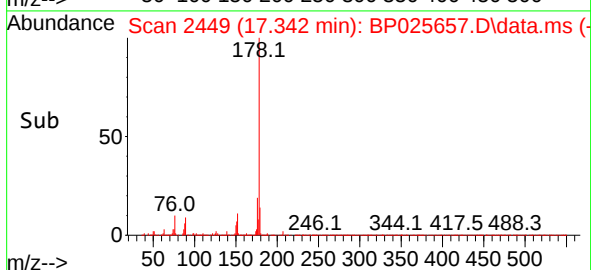
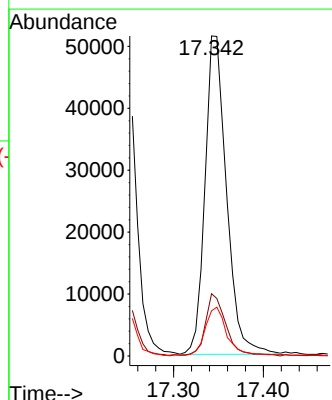
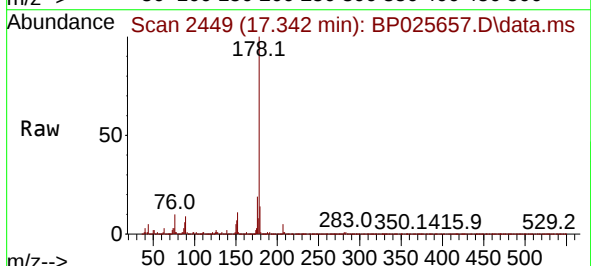
Tgt Ion:178 Resp: 85725

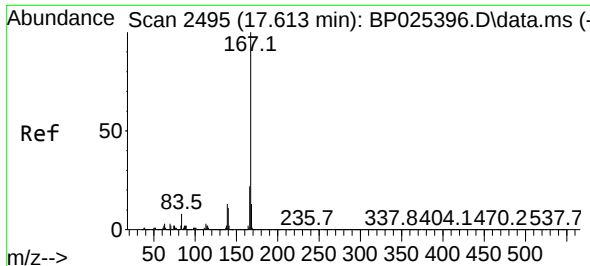
Ion Ratio Lower Upper

178 100

176 19.4 14.7 22.1

179 14.1 12.2 18.2

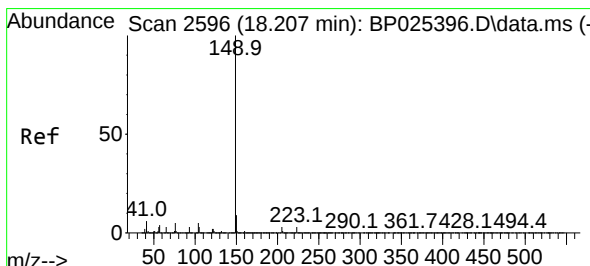
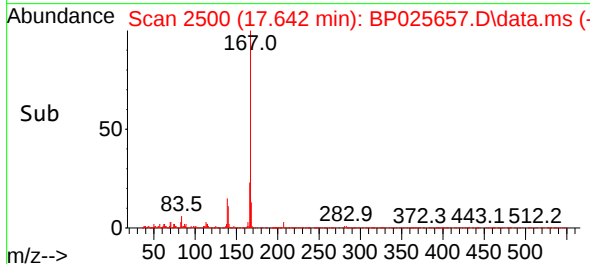
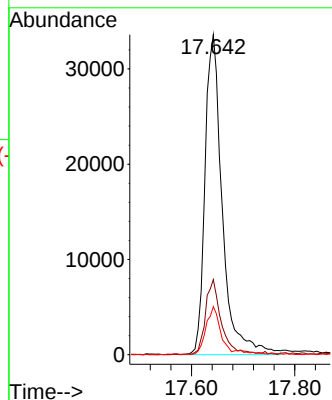
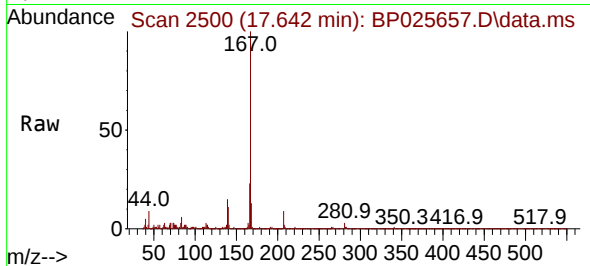




#73
 Carbazole
 Concen: 2.118 ng
 RT: 17.642 min Scan# 21
 Delta R.T. 0.029 min
 Lab File: BP025657.D
 Acq: 04 Sep 2025 12:44

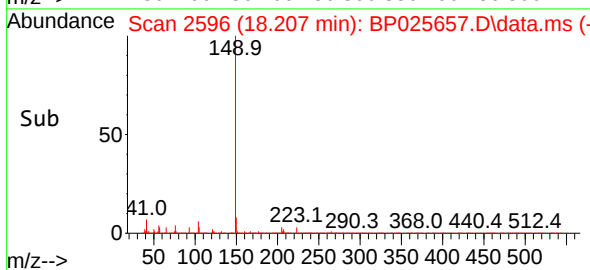
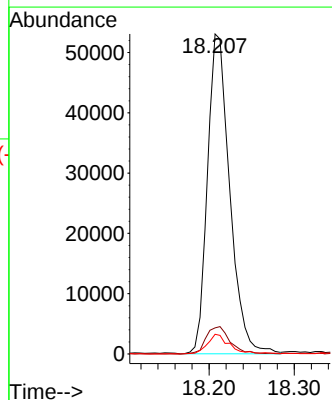
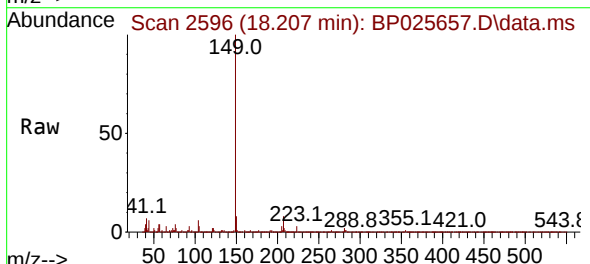
Instrument :
 BNA_P
 ClientSampleId :
 LOQ-SOIL-02-QT3-2025

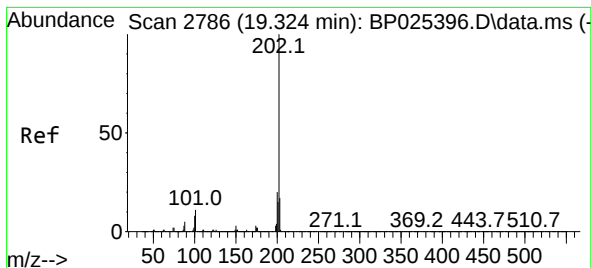
Tgt Ion:	167	Resp:	78078
Ion Ratio	Lower	Upper	
167	100		
166	23.4	17.5	26.3
139	15.0	10.6	16.0



#74
 Di-n-butylphthalate
 Concen: 2.124 ng
 RT: 18.207 min Scan# 2596
 Delta R.T. 0.000 min
 Lab File: BP025657.D
 Acq: 04 Sep 2025 12:44

Tgt Ion:	149	Resp:	96299
Ion Ratio	Lower	Upper	
149	100		
150	8.1	7.4	11.0
104	6.1	4.2	6.2





#75

Fluoranthene

Concen: 2.350 ng

RT: 19.336 min Scan# 21

Delta R.T. 0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

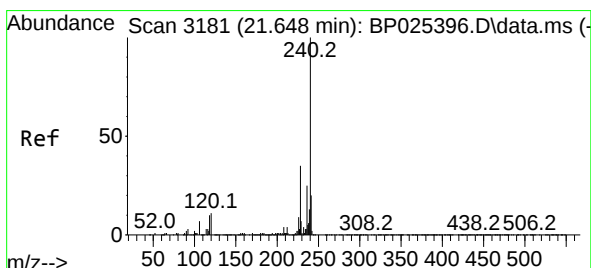
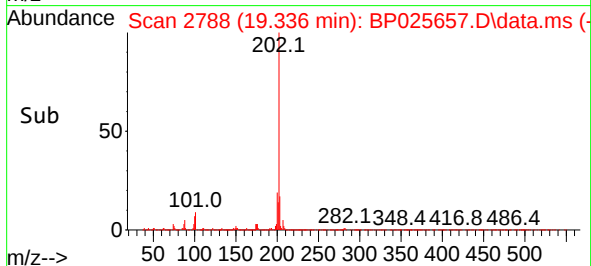
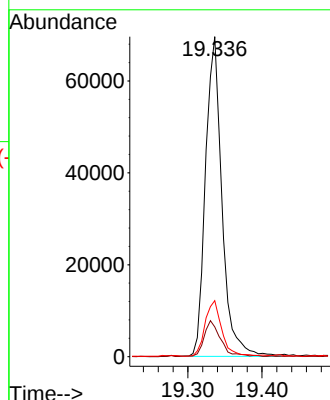
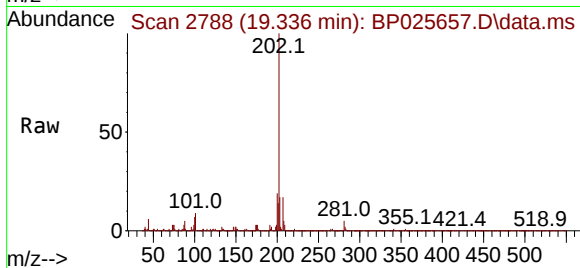
Tgt Ion:202 Resp: 107398

Ion Ratio Lower Upper

202 100

101 9.3 0.0 31.1

203 17.5 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.654 min Scan# 3182

Delta R.T. 0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

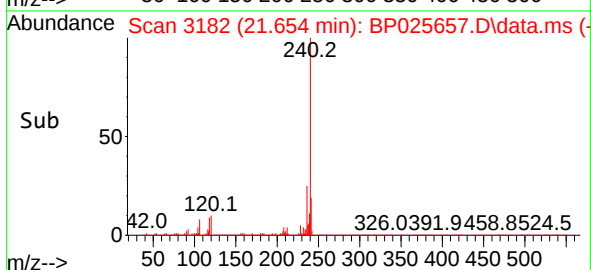
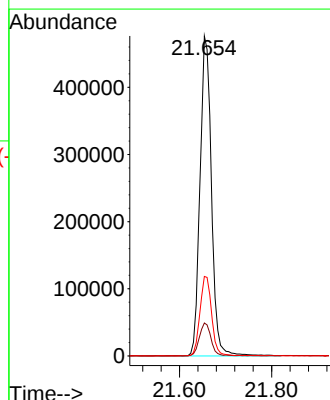
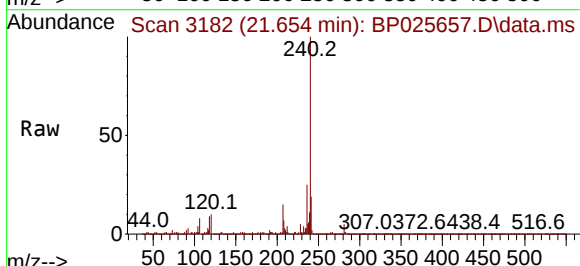
Tgt Ion:240 Resp: 823719

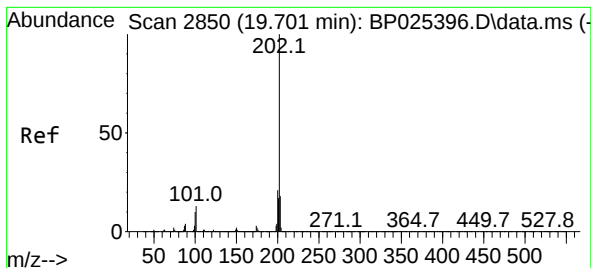
Ion Ratio Lower Upper

240 100

120 10.3 8.9 13.3

236 24.9 19.8 29.8





#78

Pyrene

Concen: 2.096 ng

RT: 19.713 min Scan# 2852

Delta R.T. 0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

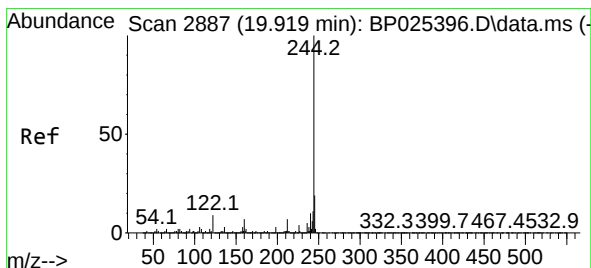
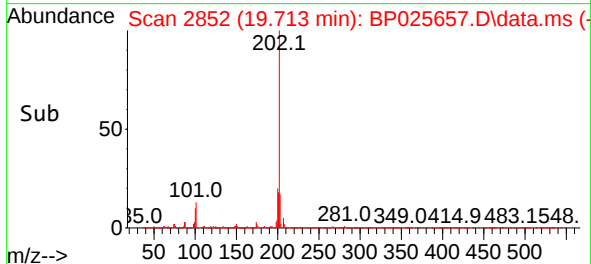
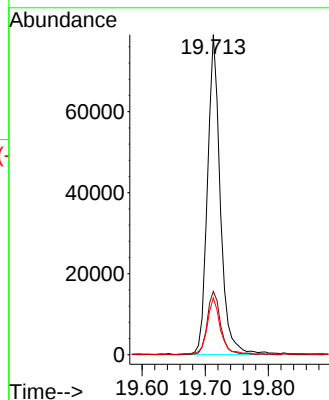
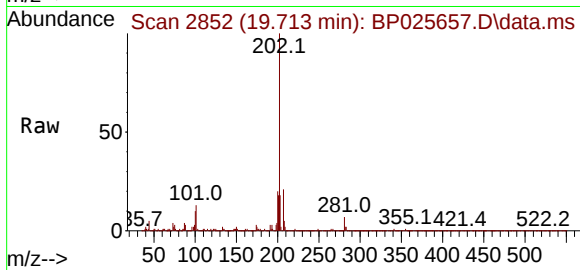
Tgt Ion:202 Resp: 112230

Ion Ratio Lower Upper

202 100

200 19.8 16.9 25.3

203 17.8 14.2 21.2



#79

Terphenyl-d14

Concen: 64.552 ng

RT: 19.930 min Scan# 2889

Delta R.T. 0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

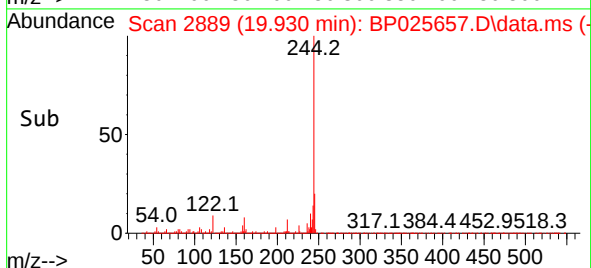
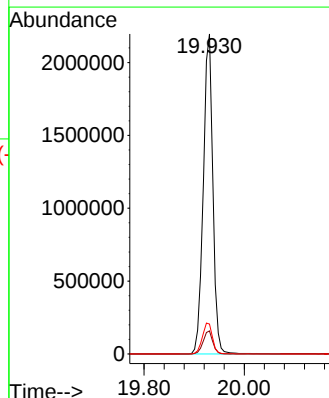
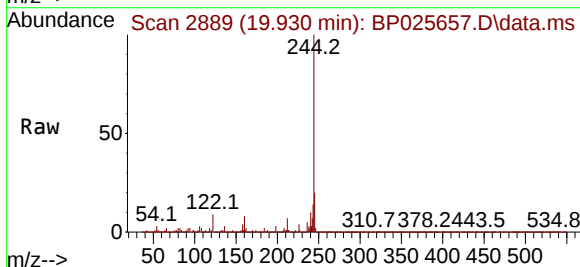
Tgt Ion:244 Resp: 2906280

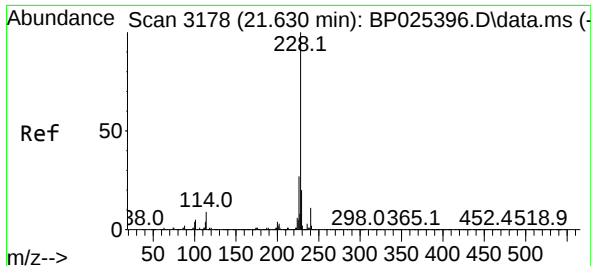
Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.6

122 9.4 7.4 11.2

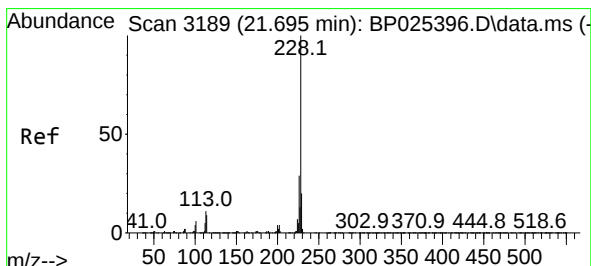
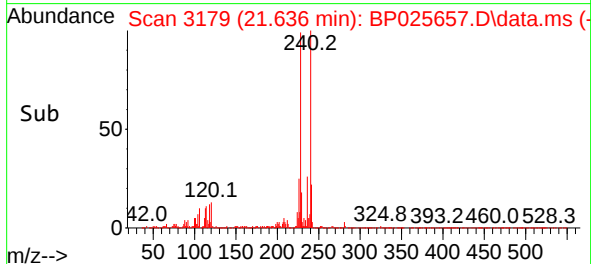
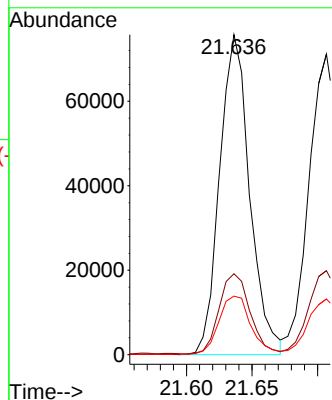
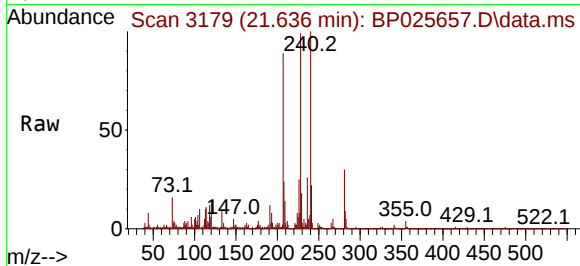




#81
Benzo(a)anthracene
Concen: 2.223 ng
RT: 21.636 min Scan# 3178
Delta R.T. 0.006 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

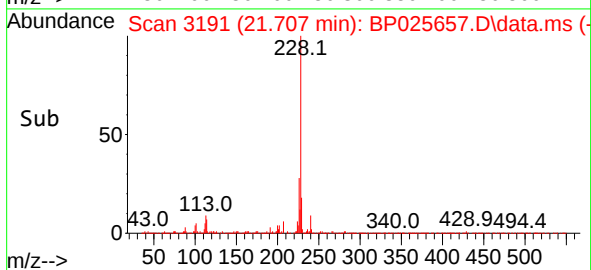
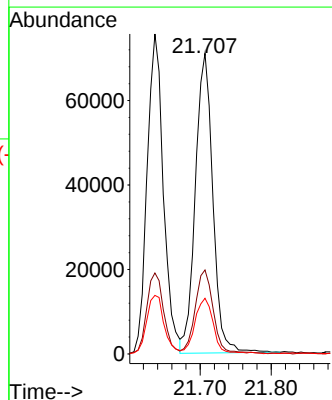
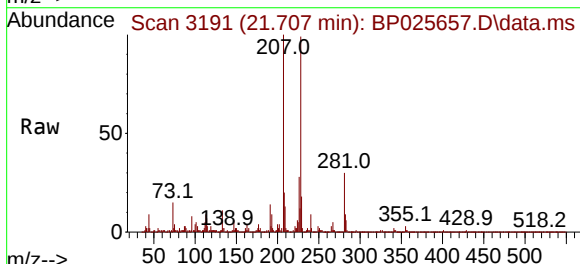
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

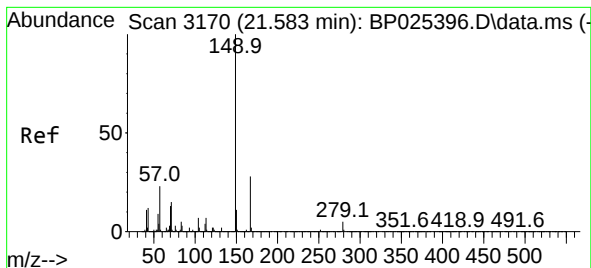
Tgt Ion:228 Resp: 120764
Ion Ratio Lower Upper
228 100
226 25.3 21.7 32.5
229 18.3 15.6 23.4



#83
Chrysene
Concen: 2.392 ng
RT: 21.707 min Scan# 3191
Delta R.T. 0.012 min
Lab File: BP025657.D
Acq: 04 Sep 2025 12:44

Tgt Ion:228 Resp: 121689
Ion Ratio Lower Upper
228 100
226 28.0 23.2 34.8
229 18.5 15.6 23.4





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.016 ng

RT: 21.571 min Scan# 31

Delta R.T. -0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

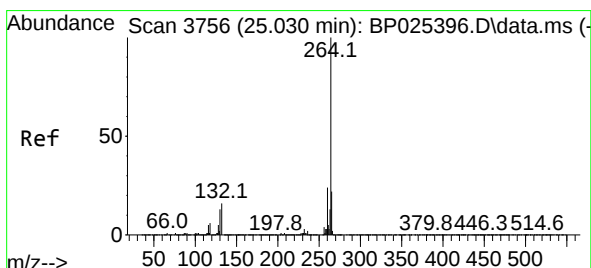
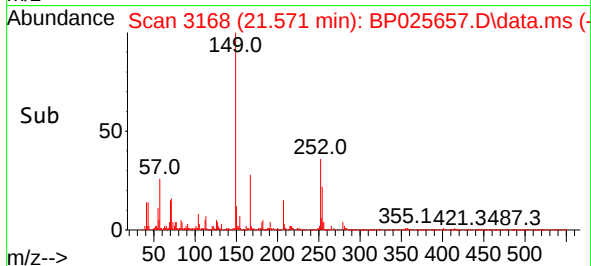
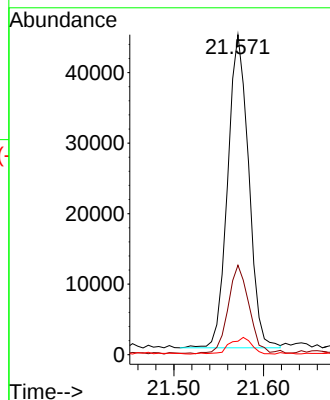
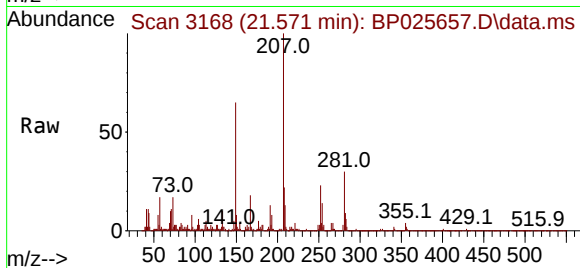
Tgt Ion:149 Resp: 71993

Ion Ratio Lower Upper

149 100

167 28.0 22.1 33.1

279 4.2 3.8 5.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.042 min Scan# 3758

Delta R.T. 0.012 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

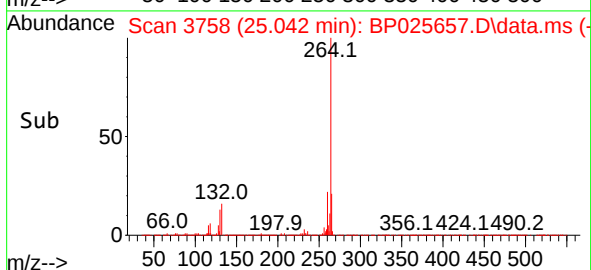
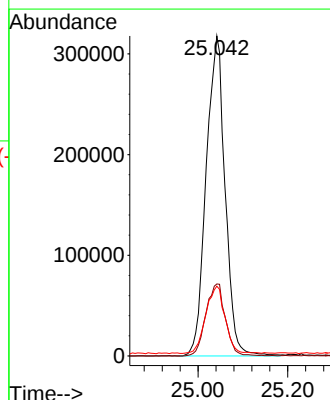
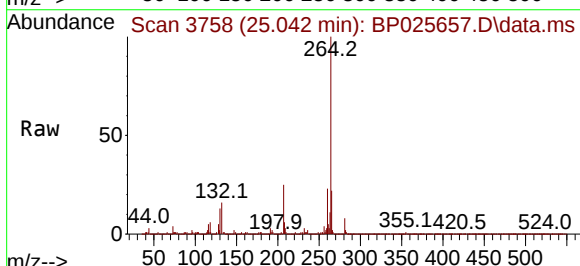
Tgt Ion:264 Resp: 932054

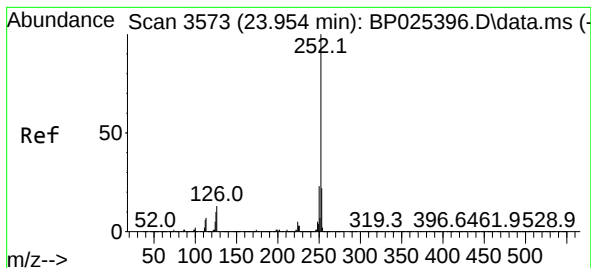
Ion Ratio Lower Upper

264 100

260 22.5 19.3 28.9

265 21.8 17.4 26.0





#88

Benzo(b)fluoranthene

Concen: 2.263 ng

RT: 23.971 min Scan# 3576

Delta R.T. 0.018 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

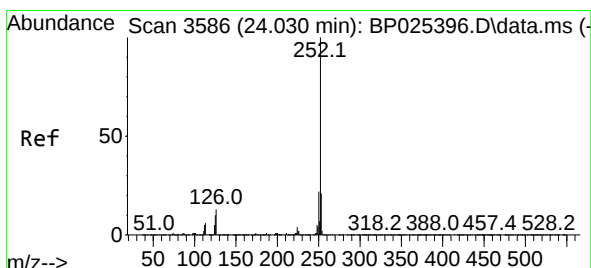
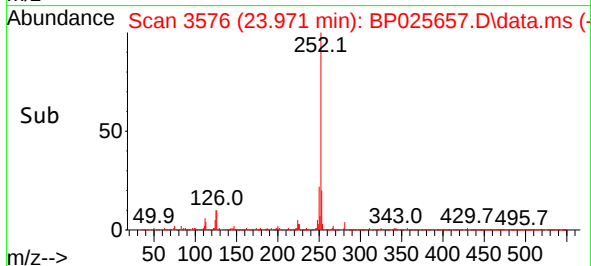
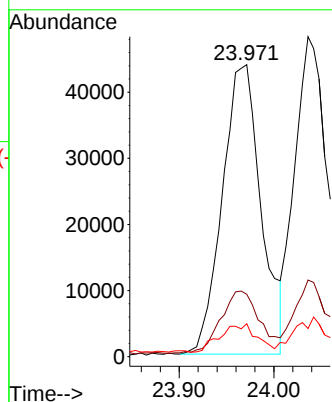
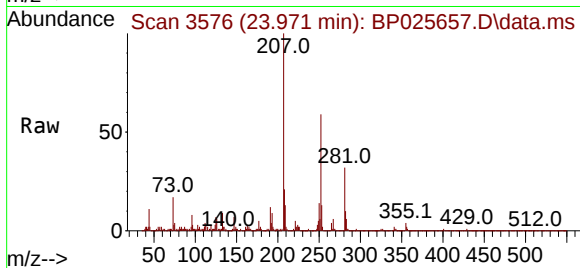
Tgt Ion:252 Resp: 124390

Ion Ratio Lower Upper

252 100

253 21.4 17.7 26.5

125 11.3 7.9 11.9



#89

Benzo(k)fluoranthene

Concen: 2.247 ng

RT: 24.036 min Scan# 3587

Delta R.T. 0.006 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

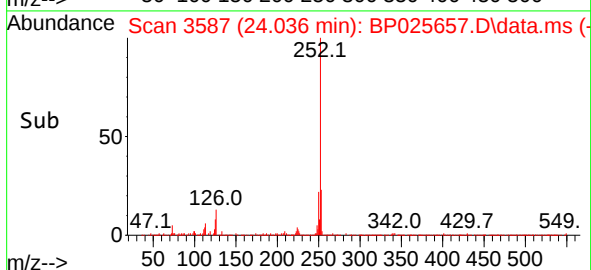
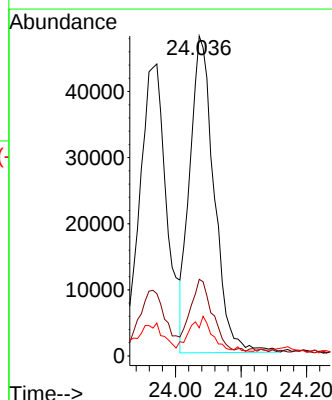
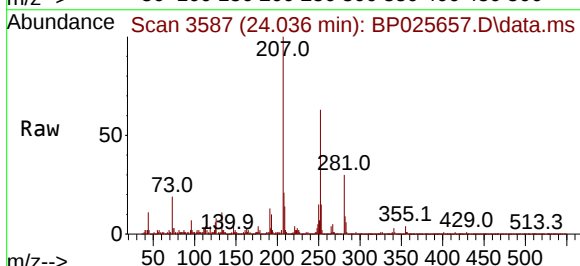
Tgt Ion:252 Resp: 123587

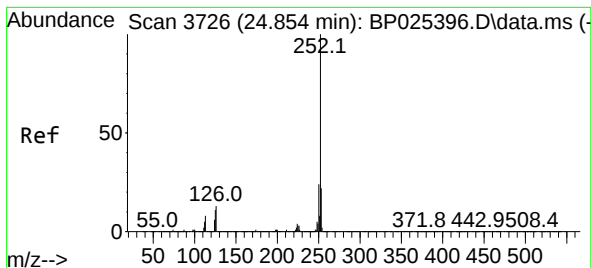
Ion Ratio Lower Upper

252 100

253 24.0 17.1 25.7

125 8.8 7.8 11.6





#90

Benzo(a)pyrene

Concen: 2.254 ng

RT: 24.883 min Scan# 31

Delta R.T. 0.029 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

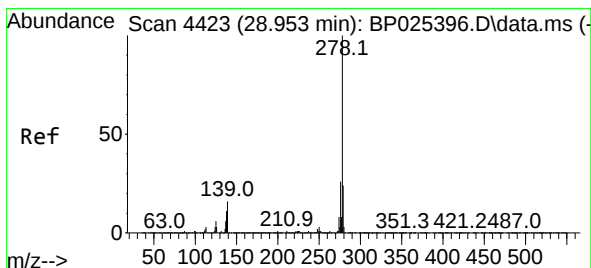
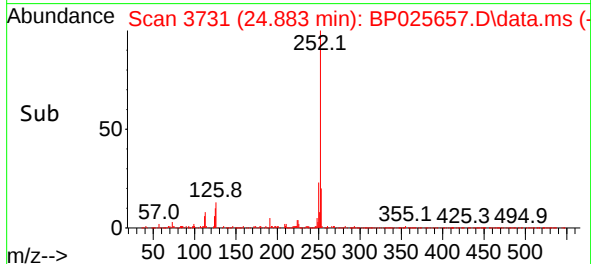
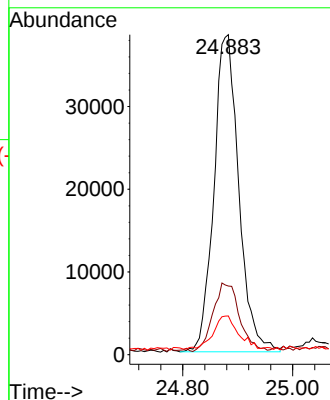
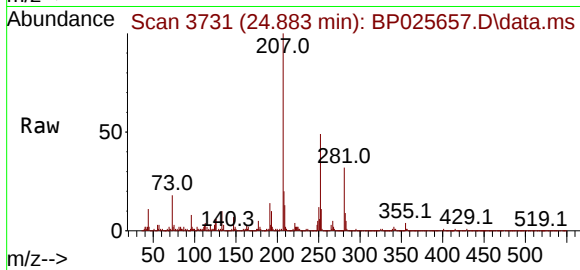
Tgt Ion:252 Resp: 120579

Ion Ratio Lower Upper

252 100

253 21.4 17.5 26.3

125 12.1 8.7 13.1



#91

Dibenzo(a,h)anthracene

Concen: 2.122 ng

RT: 28.971 min Scan# 4426

Delta R.T. 0.018 min

Lab File: BP025657.D

Acq: 04 Sep 2025 12:44

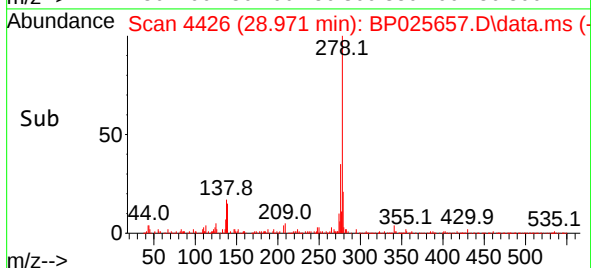
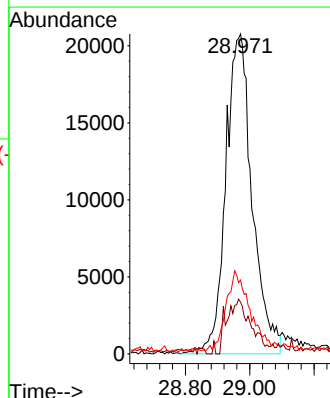
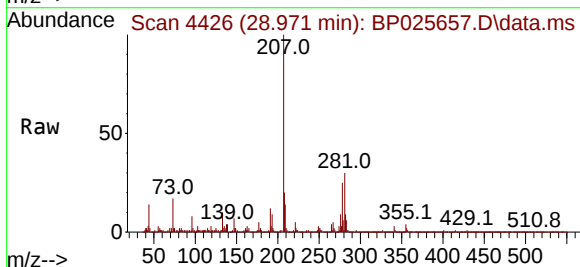
Tgt Ion:278 Resp: 118511

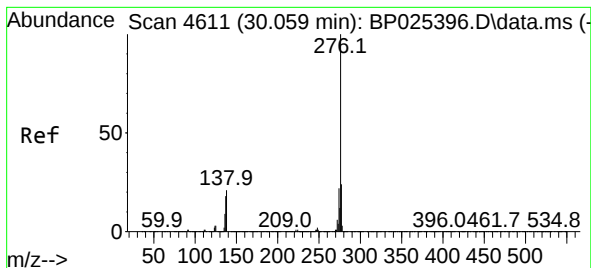
Ion Ratio Lower Upper

278 100

139 16.1 13.0 19.4

279 23.1 19.4 29.2





#92

Benzo(g,h,i)perylene

Concen: 2.227 ng

RT: 30.071 min Scan# 4

Delta R.T. 0.012 min

Lab File: BP025657.D

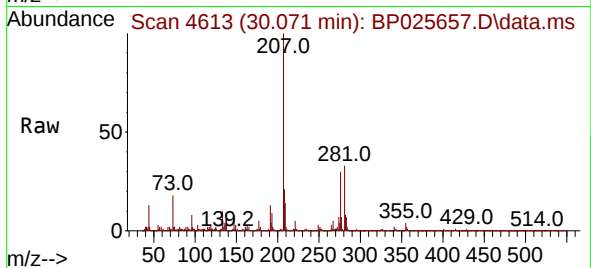
Acq: 04 Sep 2025 12:44

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025



Tgt Ion:276 Resp: 122292

Ion Ratio Lower Upper

276 100

277 22.8 19.4 29.0

138 21.7 16.7 25.1

