

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071025\
 Data File : BN037455.D
 Acq On : 10 Jul 2025 13:15
 Operator : RC/JU
 Sample : Q2126-02
 Misc : LOQ-SOIL -0.1ng
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 LOQ-SOIL-02-QT2-2025

Quant Time: Jul 10 14:12:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN070925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 10 00:48:38 2025
 Response via : Initial Calibration

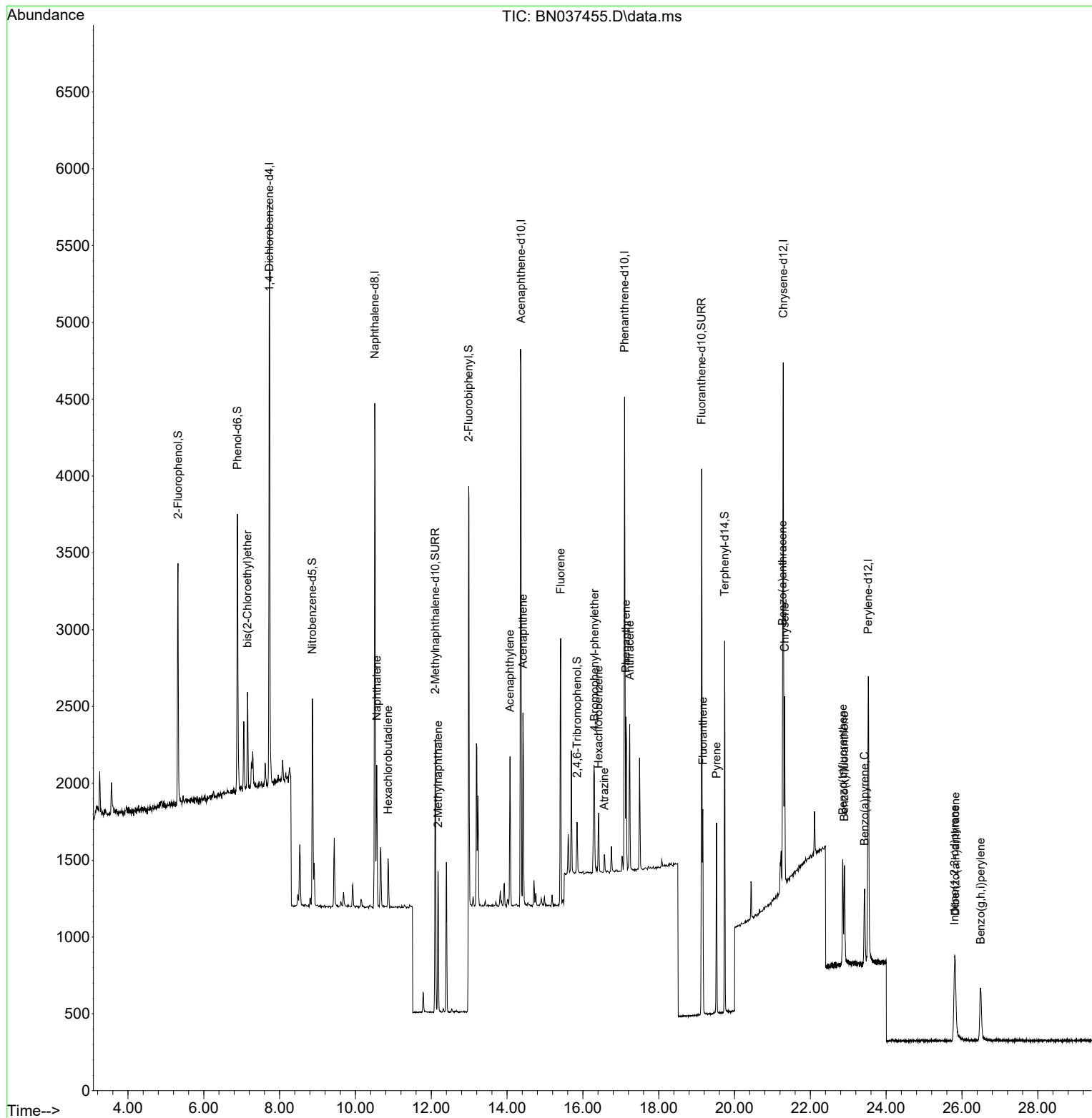
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.731	152	1790	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4475	0.400	ng	-0.01
13) Acenaphthene-d10	14.366	164	2197	0.400	ng	# 0.00
19) Phenanthrene-d10	17.099	188	3877	0.400	ng	#-0.01
29) Chrysene-d12	21.286	240	2824	0.400	ng	# 0.00
35) Perylene-d12	23.528	264	2595	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1289	0.268	ng	0.00
5) Phenol-d6	6.886	99	1600	0.270	ng	0.00
8) Nitrobenzene-d5	8.864	82	1041	0.346	ng	-0.01
11) 2-Methylnaphthalene-d10	12.106	152	2368	0.379	ng	-0.01
14) 2,4,6-Tribromophenol	15.845	330	189	0.210	ng	-0.01
15) 2-Fluorobiphenyl	12.988	172	4093	0.338	ng	-0.01
27) Fluoranthene-d10	19.132	212	3794	0.381	ng	0.00
31) Terphenyl-d14	19.740	244	2192	0.368	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.154	93	445	0.094	ng	93
9) Naphthalene	10.562	128	1153	0.096	ng	# 90
10) Hexachlorobutadiene	10.861	225	265	0.108	ng	# 96
12) 2-Methylnaphthalene	12.182	142	650	0.084	ng	98
16) Acenaphthylene	14.077	152	1030	0.100	ng	99
17) Acenaphthene	14.419	154	618	0.093	ng	94
18) Fluorene	15.414	166	742	0.089	ng	99
21) 4-Bromophenyl-phenylether	16.304	248	230	0.091	ng	# 83
22) Hexachlorobenzene	16.416	284	314	0.103	ng	# 91
23) Atrazine	16.565	200	101	0.075	ng	# 68
25) Phenanthrene	17.136	178	1110	0.095	ng	98
26) Anthracene	17.235	178	1020	0.093	ng	99
28) Fluoranthene	19.164	202	1146	0.087	ng	99
30) Pyrene	19.526	202	1105	0.095	ng	99
32) Benzo(a)anthracene	21.268	228	904	0.090	ng	92
33) Chrysene	21.322	228	997	0.097	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.800	276	843	0.087	ng	# 81
37) Benzo(b)fluoranthene	22.855	252	884	0.093	ng	# 70
38) Benzo(k)fluoranthene	22.896	252	870	0.091	ng	# 71
39) Benzo(a)pyrene	23.428	252	772	0.098	ng	# 68
40) Dibenzo(a,h)anthracene	25.823	278	616	0.079	ng	# 70
41) Benzo(g,h,i)perylene	26.490	276	748	0.089	ng	# 79

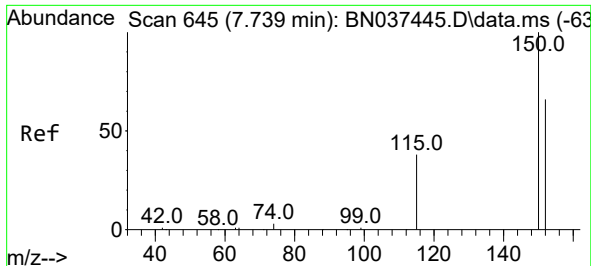
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071025\
Data File : BN037455.D
Acq On : 10 Jul 2025 13:15
Operator : RC/JU
Sample : Q2126-02
Misc : LOQ-SOIL -0.1ng
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

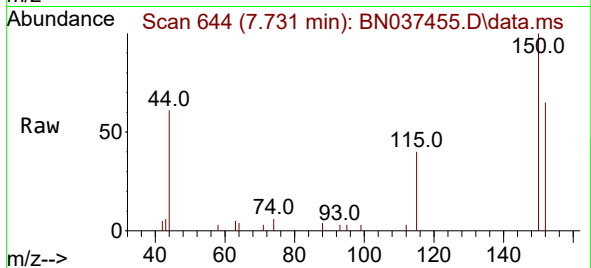
Quant Time: Jul 10 14:12:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 10 00:48:38 2025
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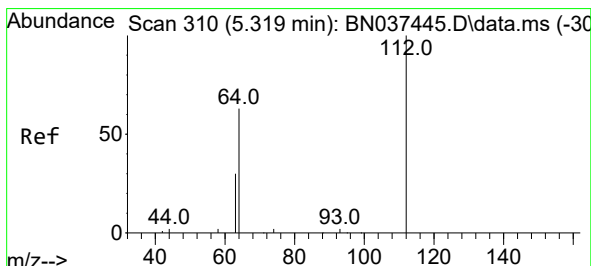
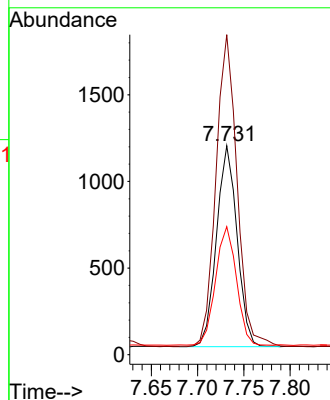
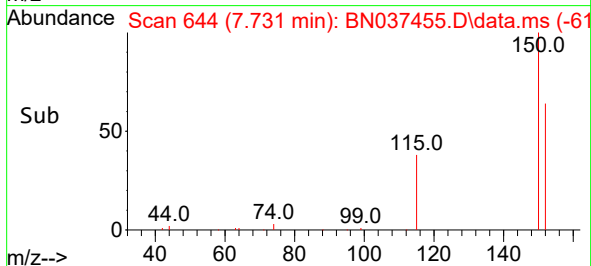


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.731 min Scan# 645
Delta R.T. -0.008 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

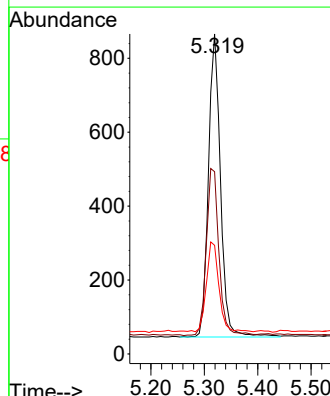
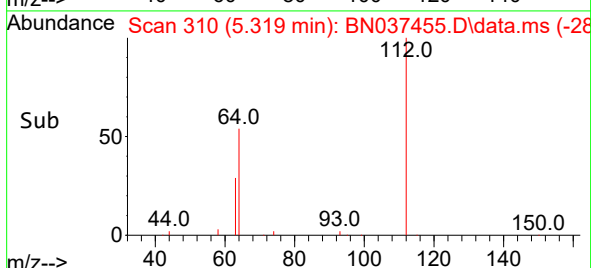
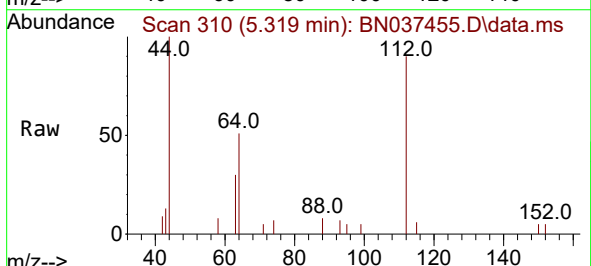


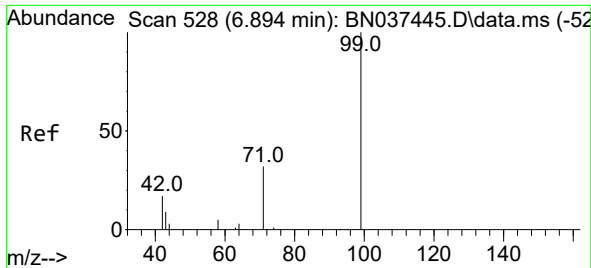
Tgt Ion:152 Resp: 1790
Ion Ratio Lower Upper
152 100
150 153.2 124.6 186.8
115 61.3 50.4 75.6



#4
2-Fluorophenol
Concen: 0.268 ng
RT: 5.319 min Scan# 310
Delta R.T. -0.007 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:112 Resp: 1289
Ion Ratio Lower Upper
112 100
64 57.5 49.4 74.2
63 30.9 27.2 40.8

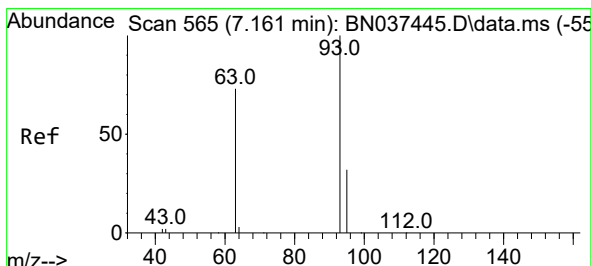
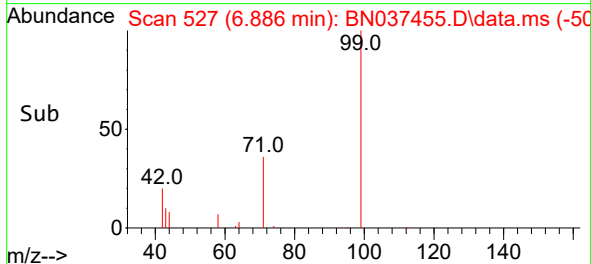
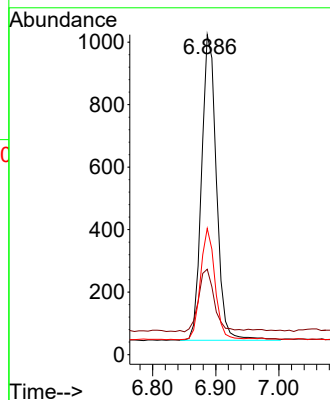
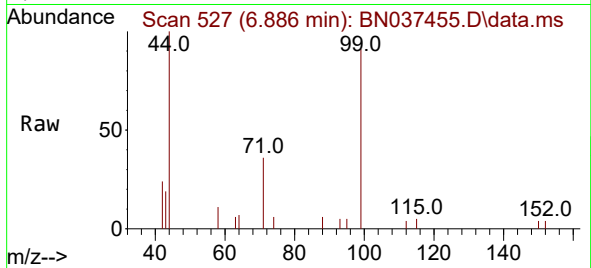




#5
Phenol-d6
Concen: 0.270 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.008 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

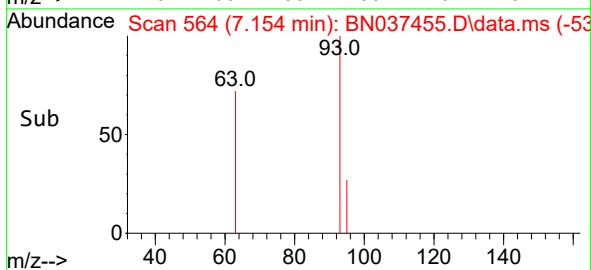
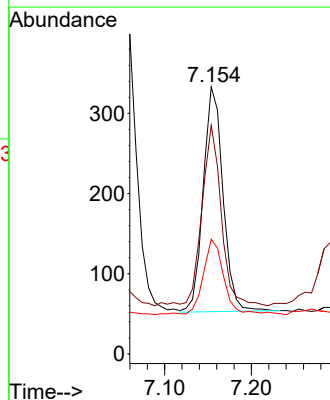
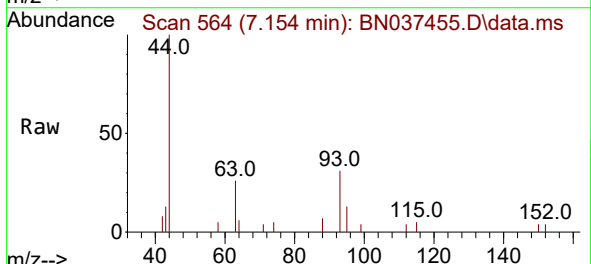
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

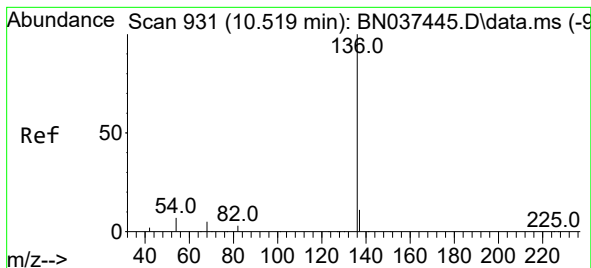
Tgt Ion: 99 Resp: 1600
Ion Ratio Lower Upper
99 100
42 21.5 22.5 33.7#
71 35.4 27.8 41.6



#6
bis(2-Chloroethyl)ether
Concen: 0.094 ng
RT: 7.154 min Scan# 564
Delta R.T. -0.007 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion: 93 Resp: 445
Ion Ratio Lower Upper
93 100
63 78.9 69.0 103.6
95 35.3 26.3 39.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.509 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025

Tgt Ion:136 Resp: 4475

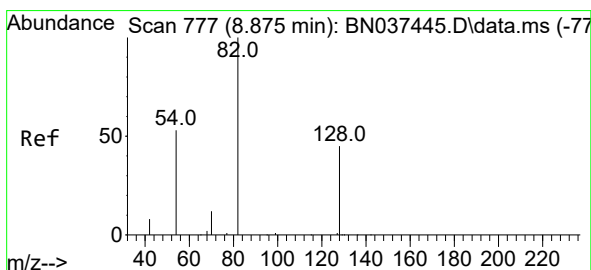
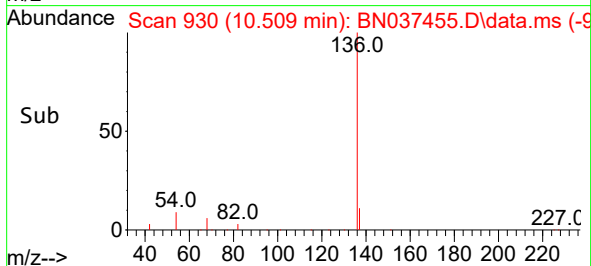
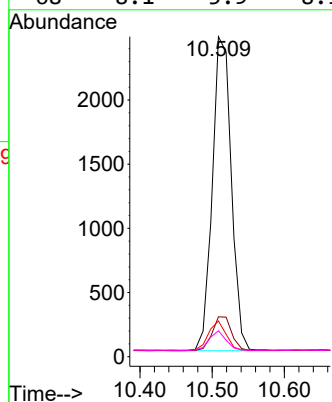
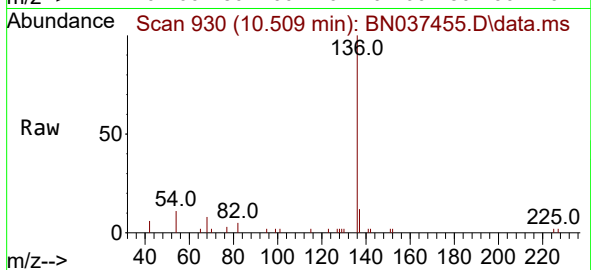
Ion Ratio Lower Upper

136 100

137 12.5 9.5 14.3

54 11.1 8.8 13.2

68 8.1 5.9 8.9



#8

Nitrobenzene-d5

Concen: 0.346 ng

RT: 8.864 min Scan# 776

Delta R.T. -0.011 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

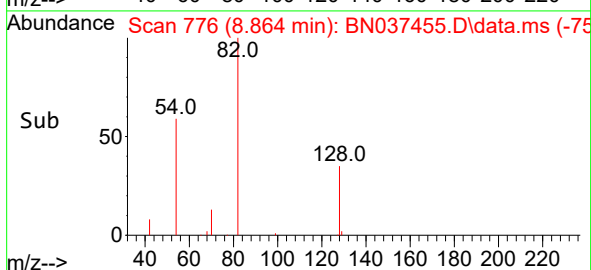
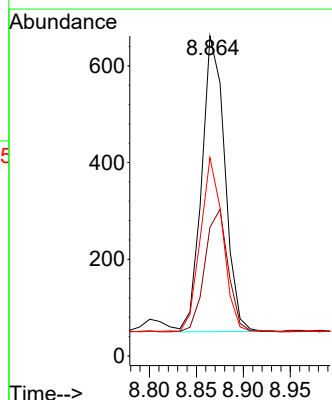
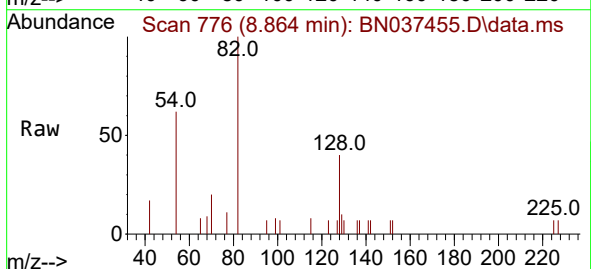
Tgt Ion: 82 Resp: 1041

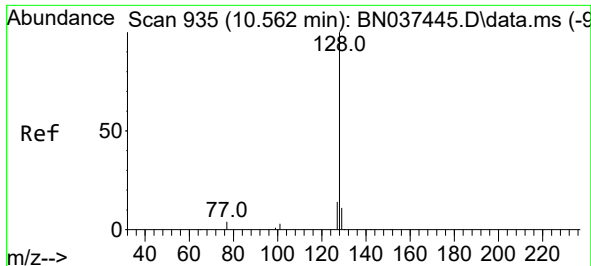
Ion Ratio Lower Upper

82 100

128 40.2 31.4 47.0

54 61.9 51.3 76.9

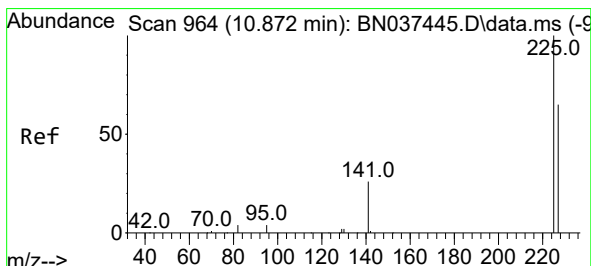
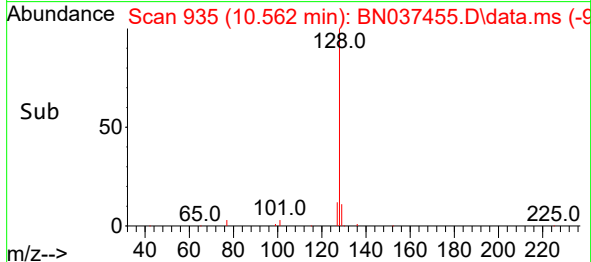
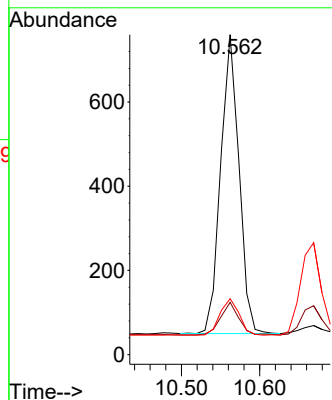
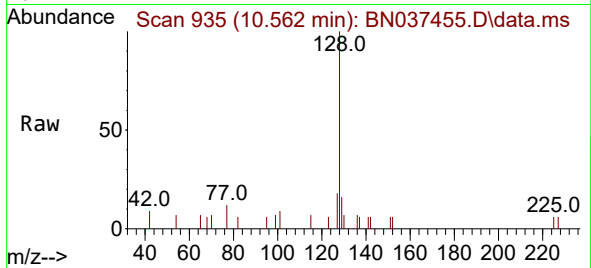




#9
Naphthalene
Concen: 0.096 ng
RT: 10.562 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

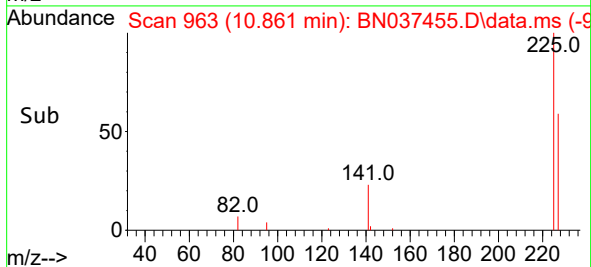
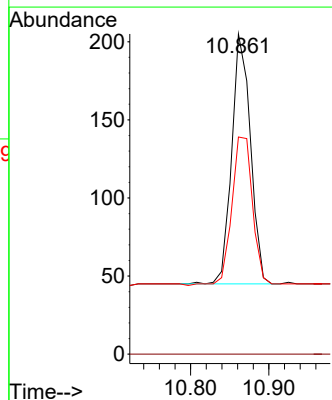
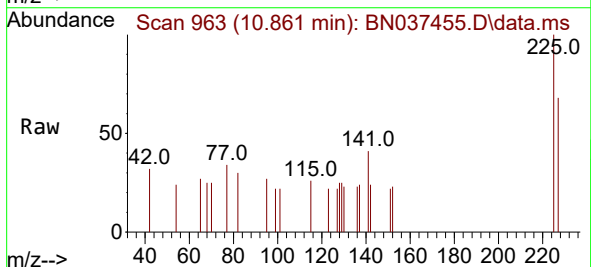
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

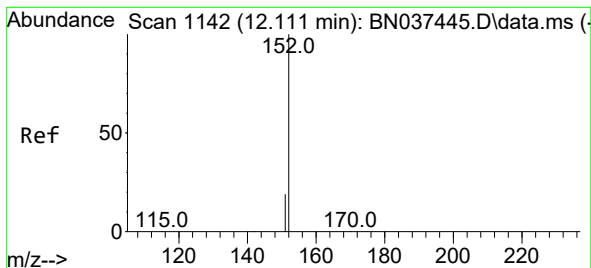
Tgt Ion:128 Resp: 1153
Ion Ratio Lower Upper
128 100
129 16.3 9.3 13.9#
127 17.5 11.1 16.7#



#10
Hexachlorobutadiene
Concen: 0.108 ng
RT: 10.861 min Scan# 963
Delta R.T. -0.011 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:225 Resp: 265
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.8 51.0 76.6

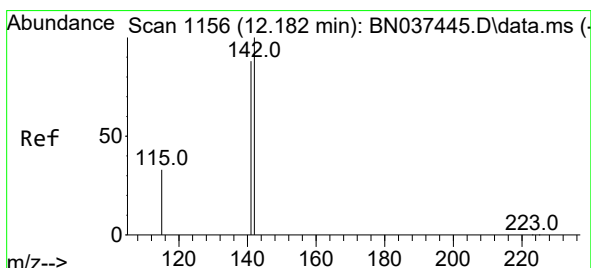
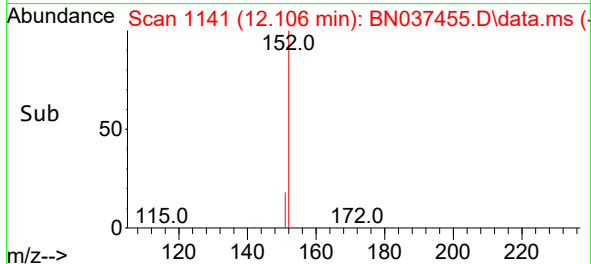
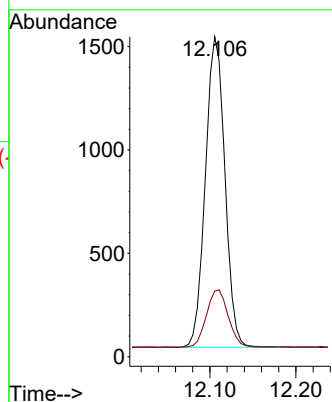
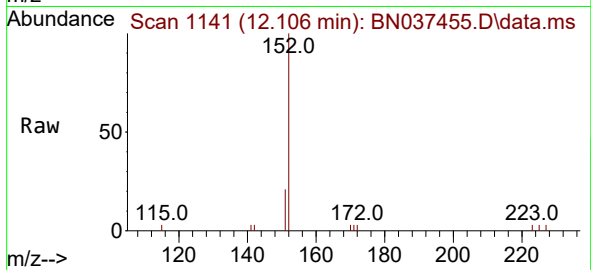




#11
2-Methylnaphthalene-d10
Concen: 0.379 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.010 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

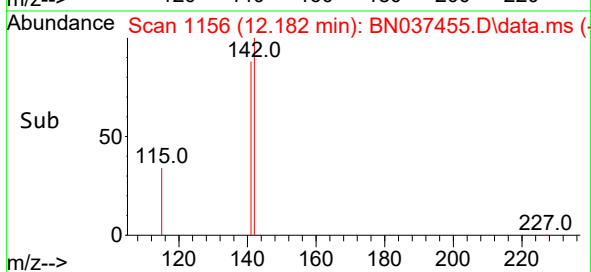
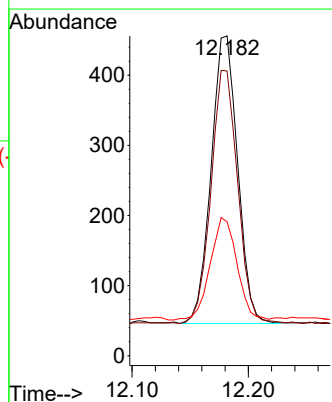
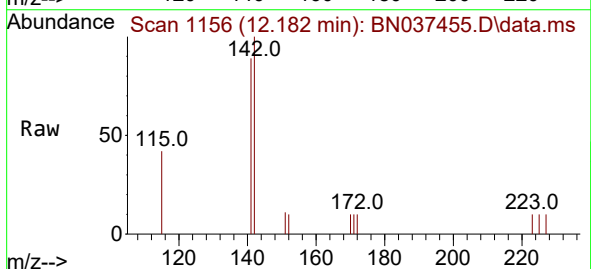
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

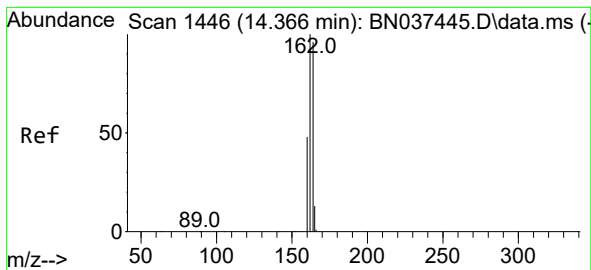
Tgt Ion:152 Resp: 2368
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.084 ng
RT: 12.182 min Scan# 1156
Delta R.T. -0.005 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:142 Resp: 650
Ion Ratio Lower Upper
142 100
141 89.0 70.5 105.7
115 41.9 31.3 46.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.366 min Scan# 1446

Delta R.T. 0.000 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025

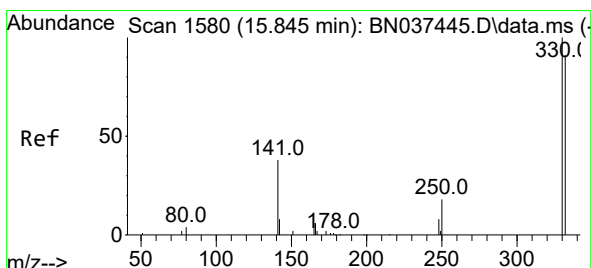
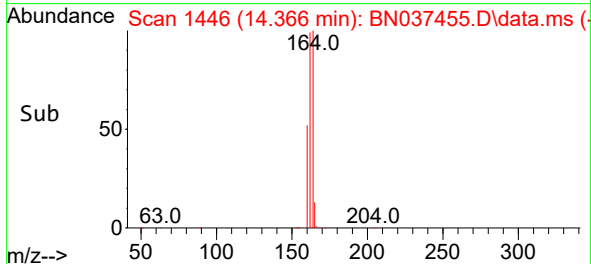
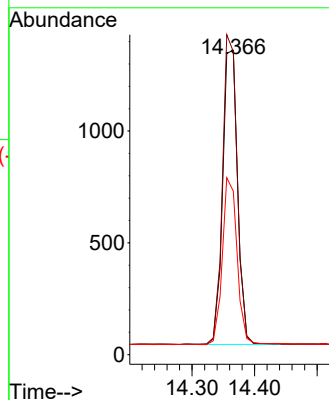
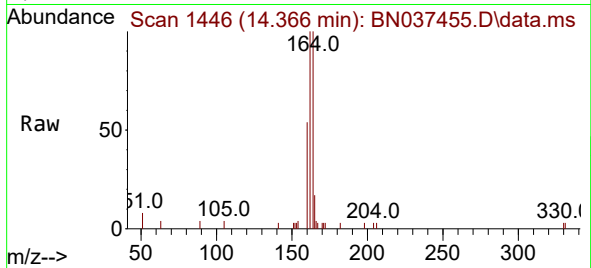
Tgt Ion:164 Resp: 2197

Ion Ratio Lower Upper

164 100

162 99.6 82.7 124.1

160 53.7 55.0 82.4#



#14

2,4,6-Tribromophenol

Concen: 0.210 ng

RT: 15.845 min Scan# 1580

Delta R.T. -0.012 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

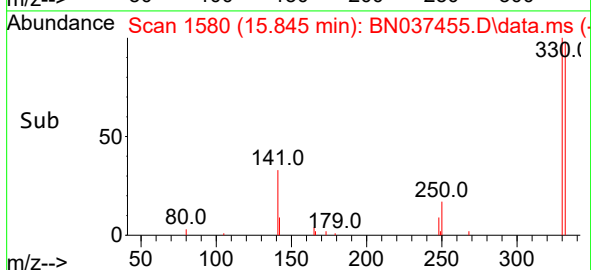
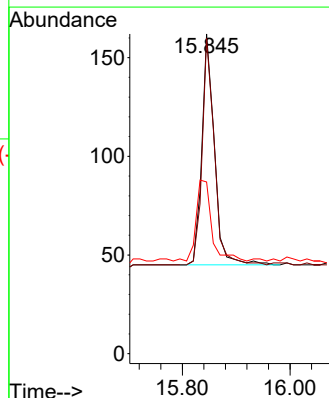
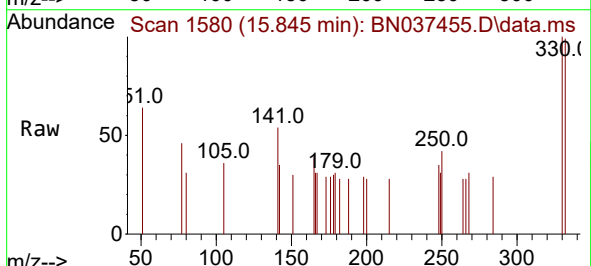
Tgt Ion:330 Resp: 189

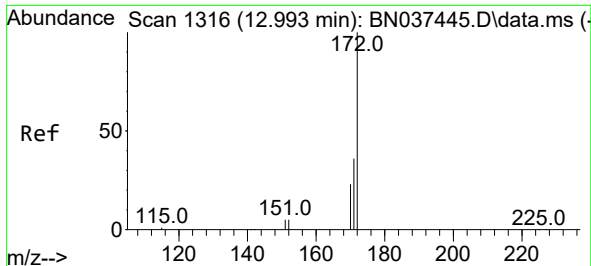
Ion Ratio Lower Upper

330 100

332 95.8 75.3 112.9

141 42.9 38.7 58.1

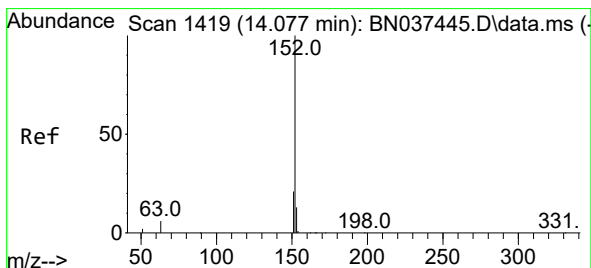
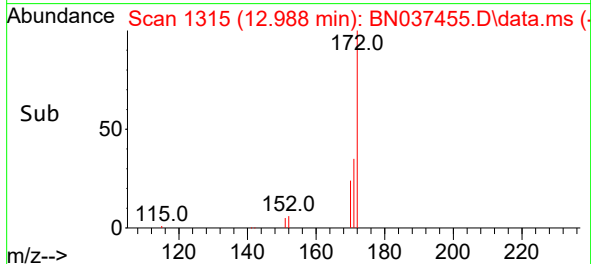
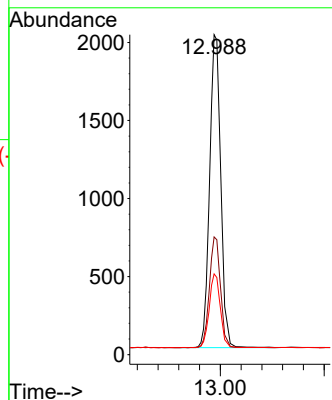
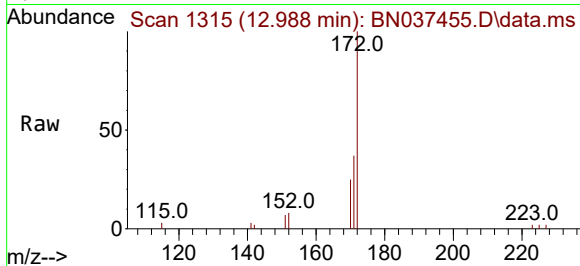




#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 12.988 min Scan# 1315
Delta R.T. -0.010 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

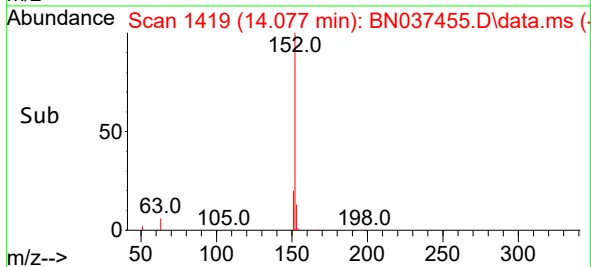
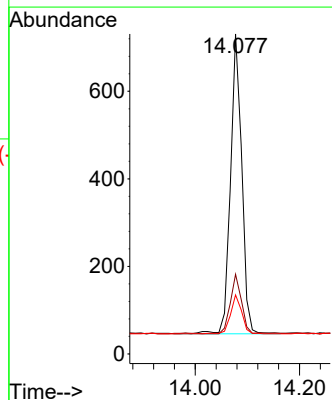
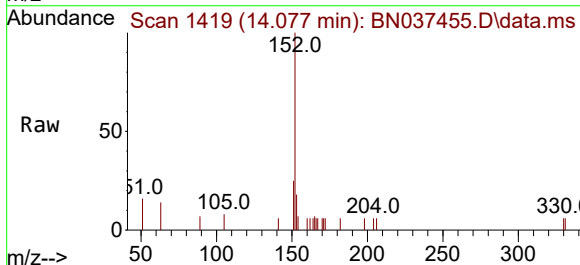
Instrument :
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LOQ-SOIL-02-QT2-2025

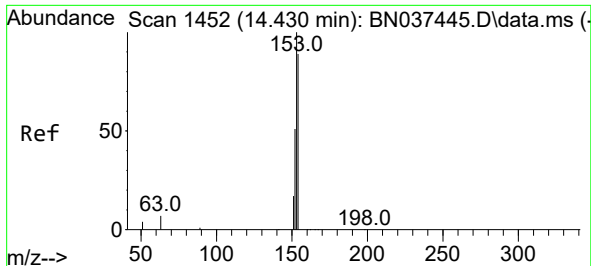
Tgt Ion:	172	Resp:	4093
Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.4	42.6
170	25.2	18.7	28.1



#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.011 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:	152	Resp:	1030
Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1
153	12.8	10.6	16.0

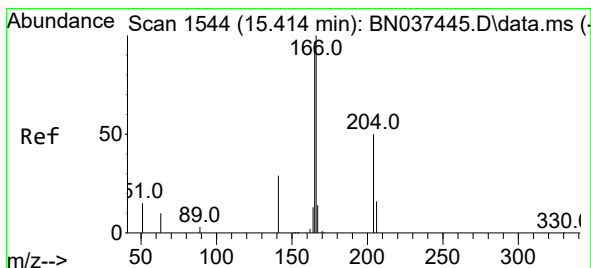
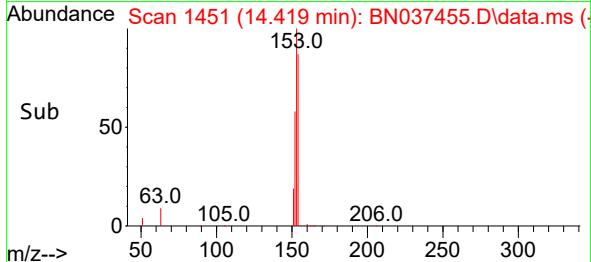
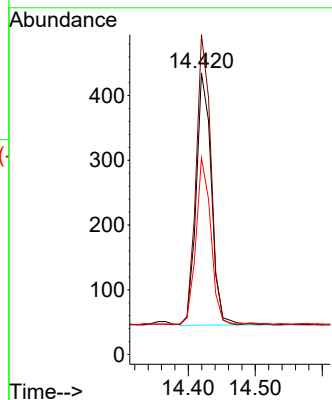
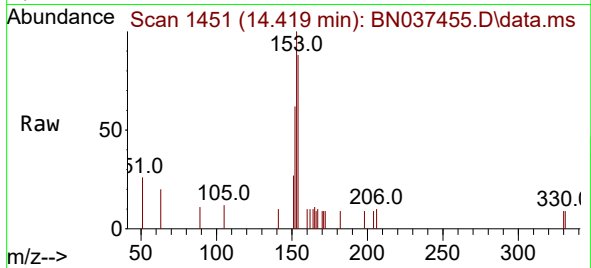




#17
Acenaphthene
Concen: 0.093 ng
RT: 14.419 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

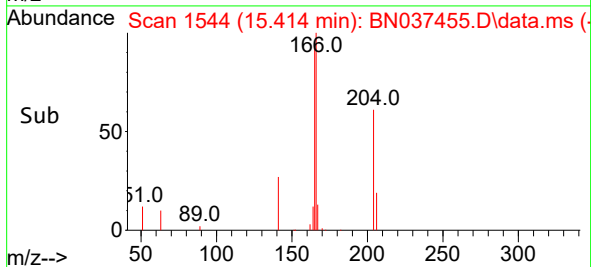
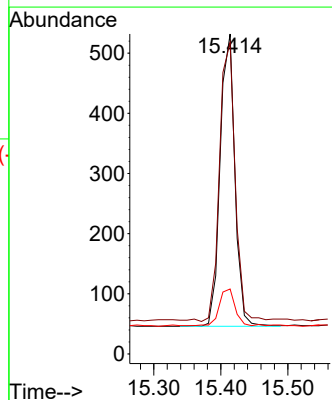
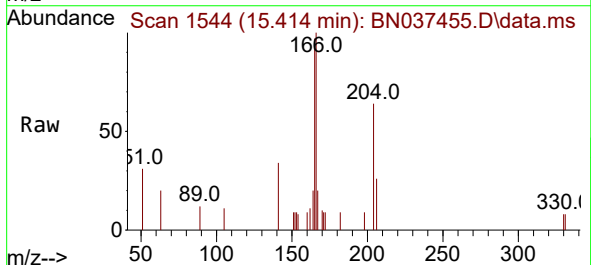
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

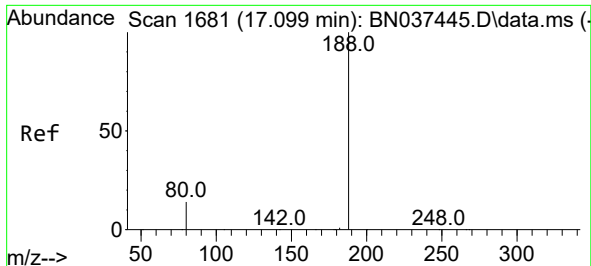
Tgt Ion:154 Resp: 618
Ion Ratio Lower Upper
154 100
153 110.8 90.7 136.1
152 63.3 58.9 88.3



#18
Fluorene
Concen: 0.089 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:166 Resp: 742
Ion Ratio Lower Upper
166 100
165 103.4 81.8 122.8
167 15.0 11.3 16.9

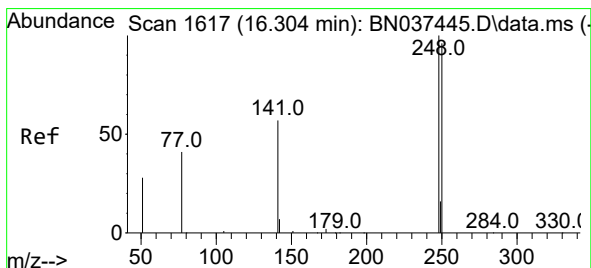
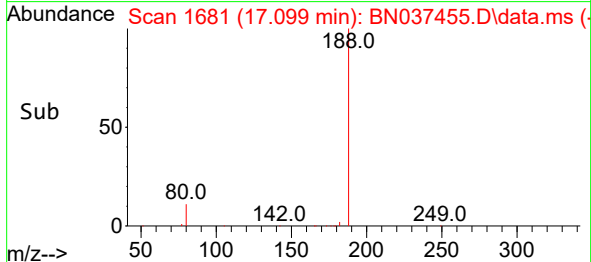
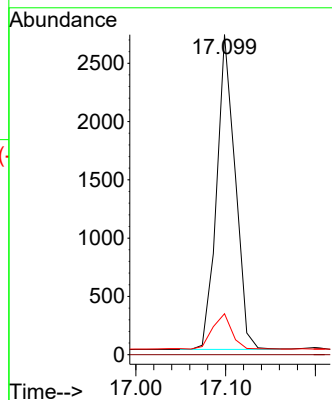
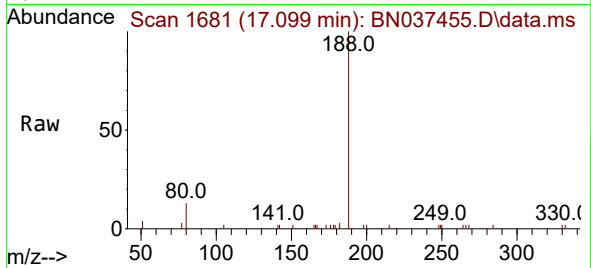




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

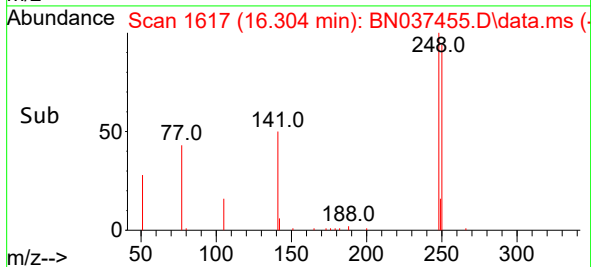
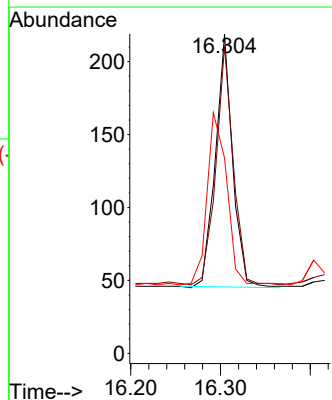
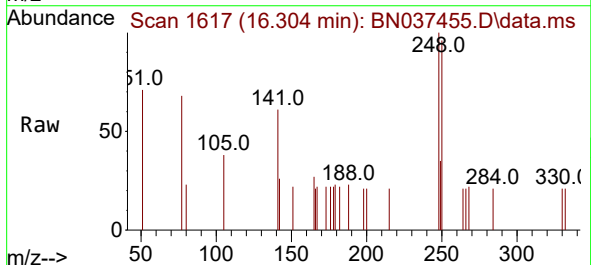
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

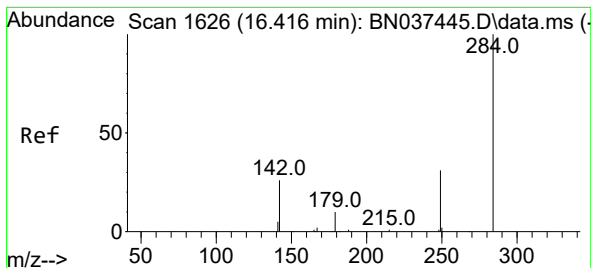
Tgt Ion:188 Resp: 3877
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.8 7.8 11.6#



#21
4-Bromophenyl-phenylether
Concen: 0.091 ng
RT: 16.304 min Scan# 1617
Delta R.T. -0.012 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:248 Resp: 230
Ion Ratio Lower Upper
248 100
250 96.3 83.9 125.9
141 61.2 29.4 44.0#





#22

Hexachlorobenzene

Concen: 0.103 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

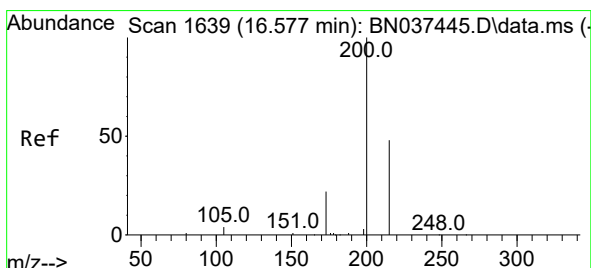
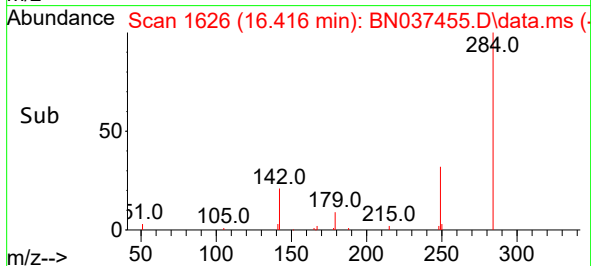
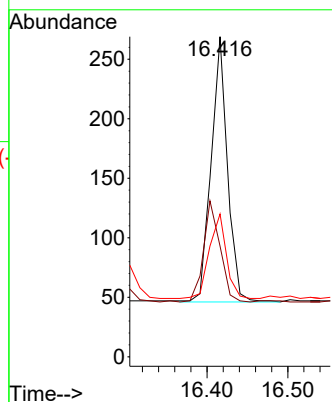
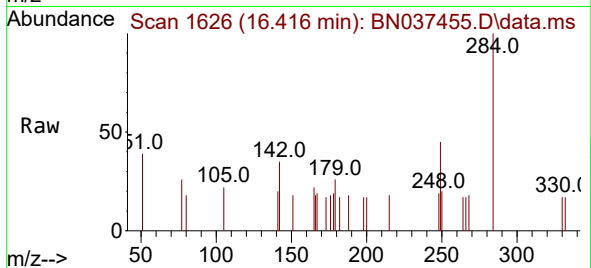
Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025

Tgt Ion:284	Resp:	314
Ion	Ratio	Lower Upper
284	100	
142	38.5	38.9 58.3#
249	33.1	27.3 40.9



#23

Atrazine

Concen: 0.075 ng

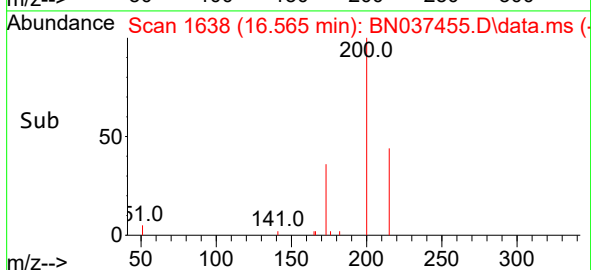
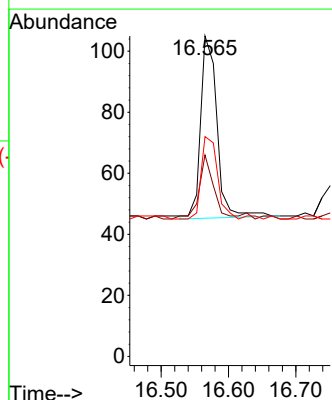
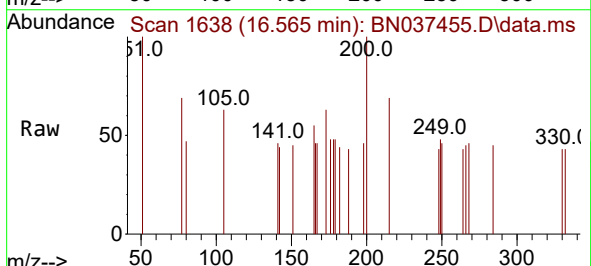
RT: 16.565 min Scan# 1638

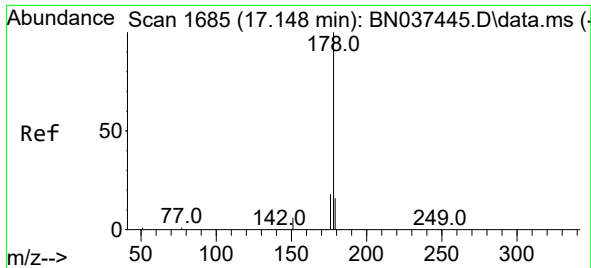
Delta R.T. -0.012 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Tgt Ion:200	Resp:	101
Ion	Ratio	Lower Upper
200	100	
173	62.9	28.4 42.6#
215	68.6	42.0 63.0#

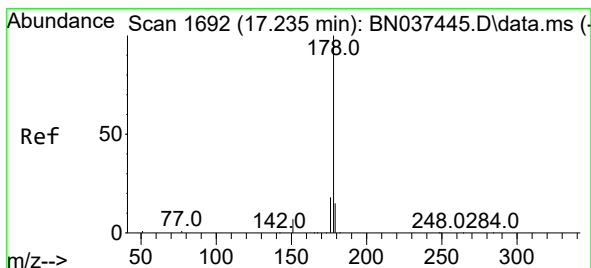
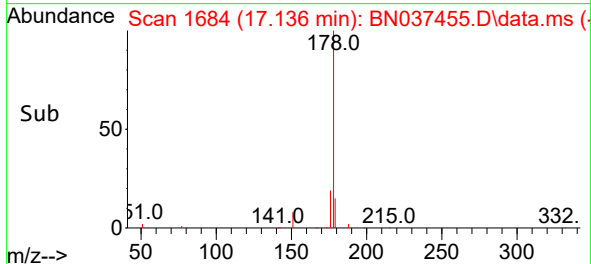
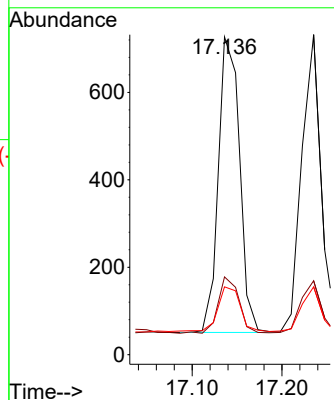
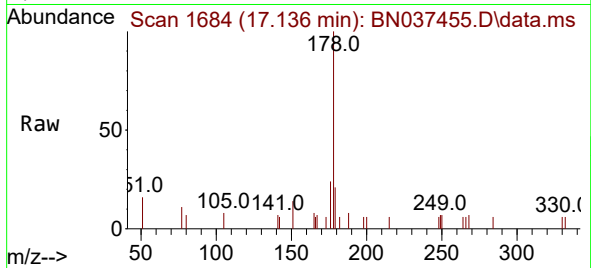




#25
Phenanthrene
Concen: 0.095 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

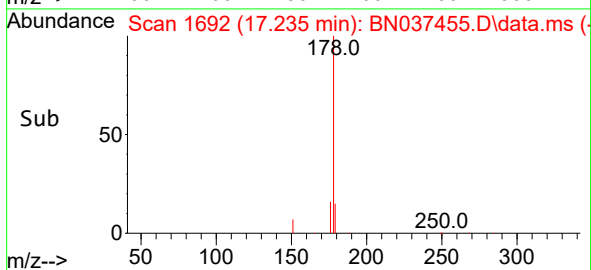
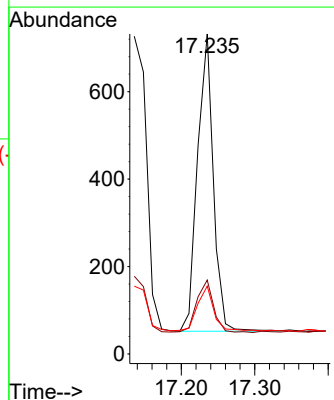
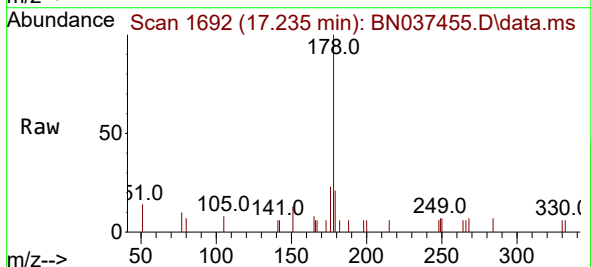
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

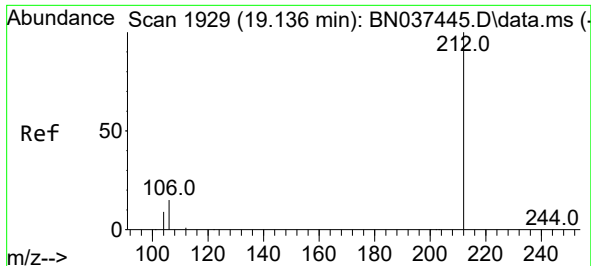
Tgt Ion:178 Resp: 1110
Ion Ratio Lower Upper
178 100
176 18.7 15.6 23.4
179 16.6 12.2 18.4



#26
Anthracene
Concen: 0.093 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:178 Resp: 1020
Ion Ratio Lower Upper
178 100
176 18.7 15.1 22.7
179 16.2 12.1 18.1

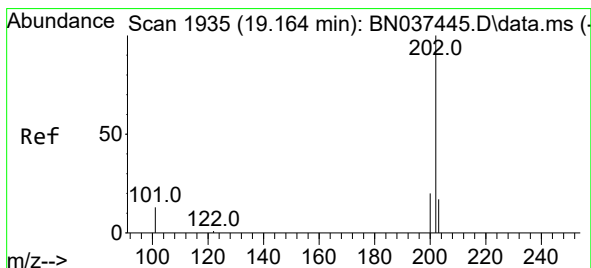
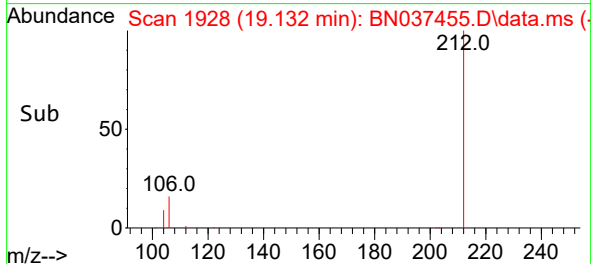
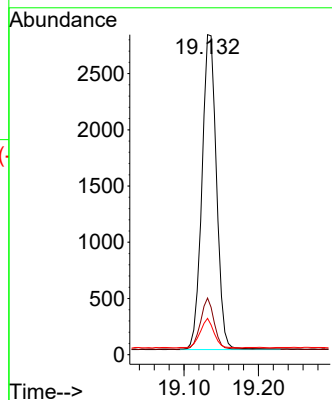
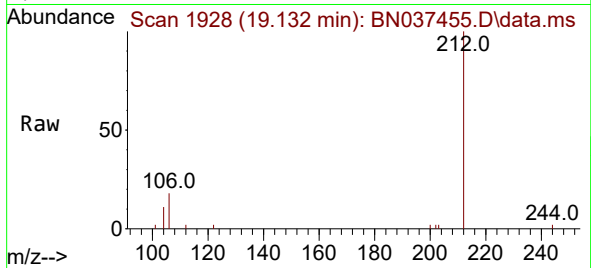




#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

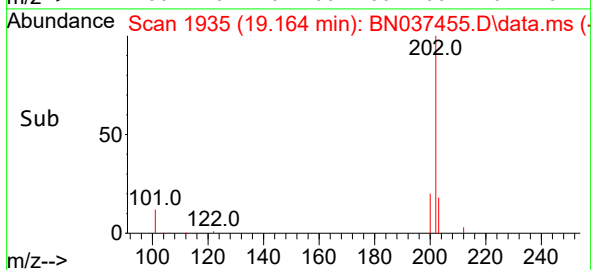
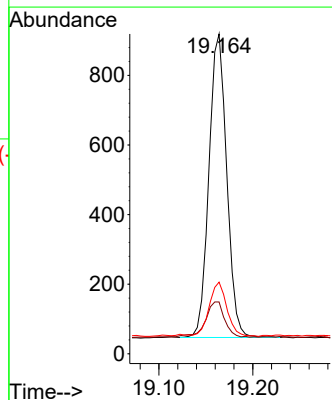
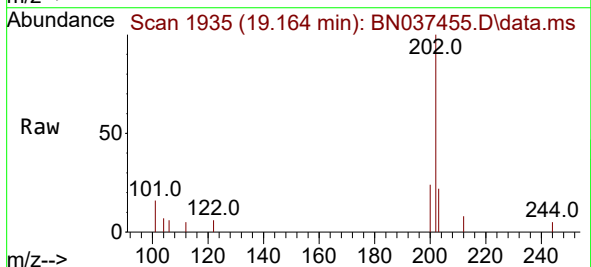
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

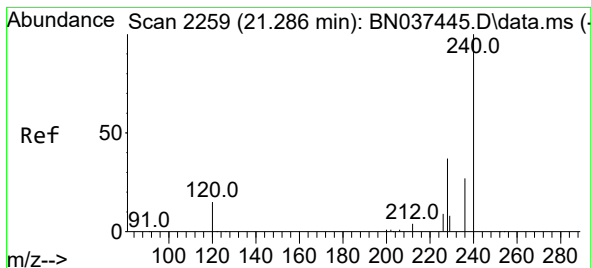
Tgt Ion:212 Resp: 3794
Ion Ratio Lower Upper
212 100
106 15.3 13.4 20.0
104 8.7 7.8 11.6



#28
Fluoranthene
Concen: 0.087 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.005 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:202 Resp: 1146
Ion Ratio Lower Upper
202 100
101 12.5 10.2 15.2
203 17.8 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.286 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

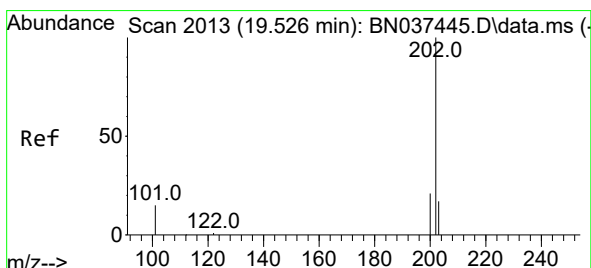
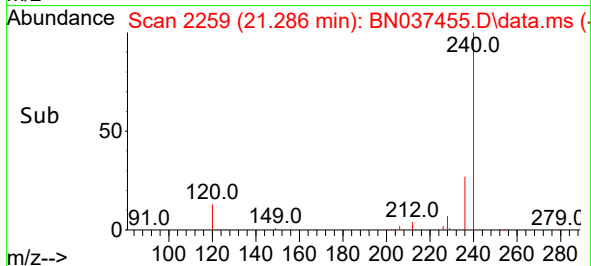
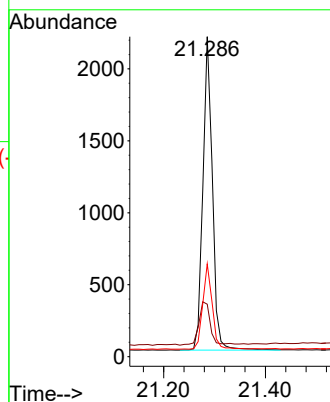
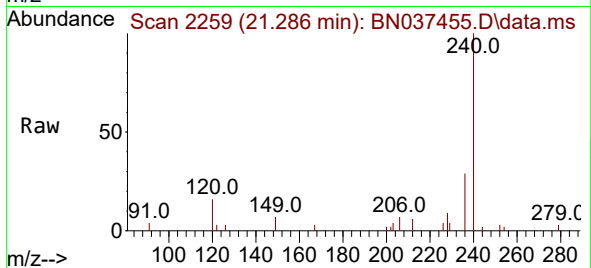
Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025

Tgt Ion:240	Resp:	2824
Ion Ratio	Lower	Upper
240	100	
120	16.4	16.4 24.6#
236	29.0	23.3 34.9



#30

Pyrene

Concen: 0.095 ng

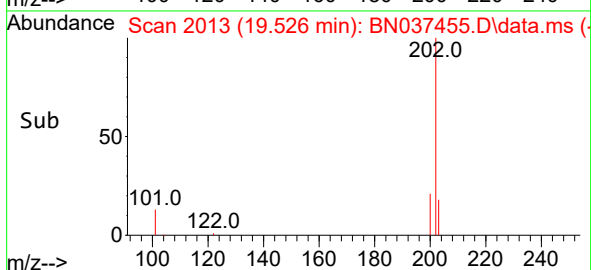
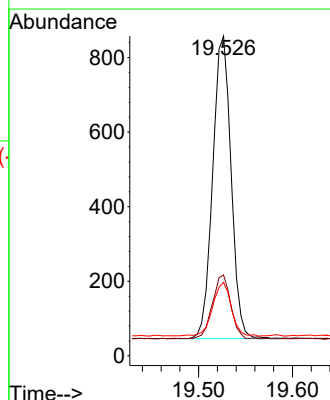
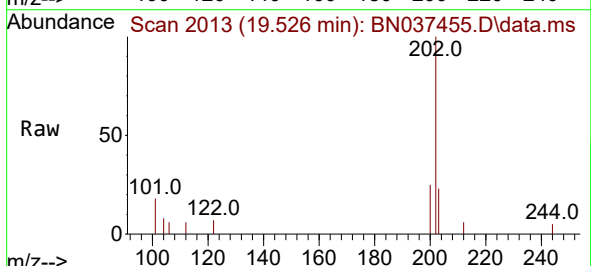
RT: 19.526 min Scan# 2013

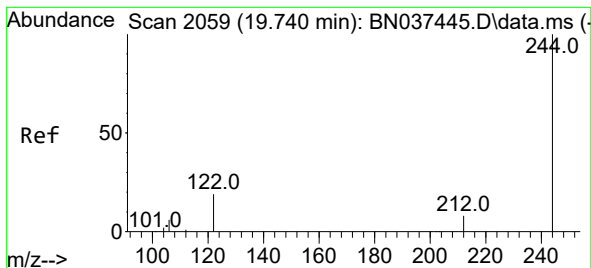
Delta R.T. -0.005 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Tgt Ion:202	Resp:	1105
Ion Ratio	Lower	Upper
202	100	
200	20.9	16.9 25.3
203	17.5	14.2 21.4





#31

Terphenyl-d14

Concen: 0.368 ng

RT: 19.740 min Scan# 2059

Delta R.T. -0.009 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025

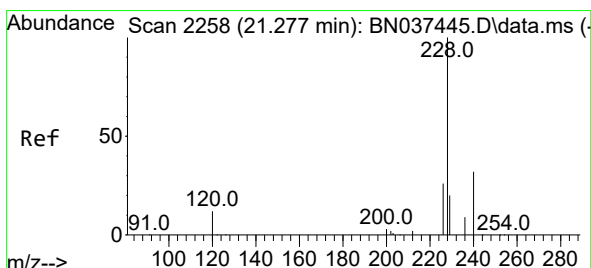
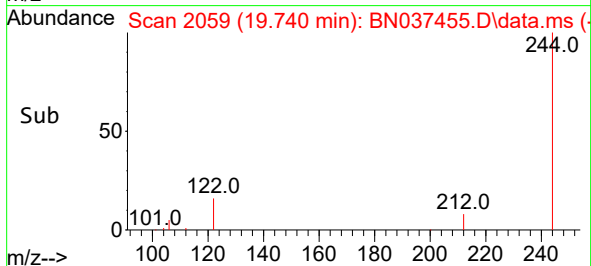
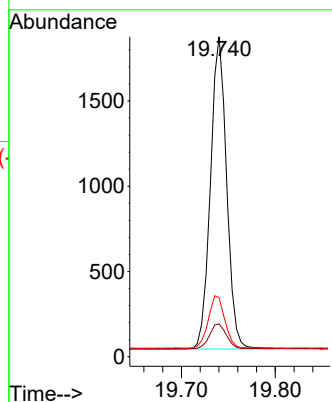
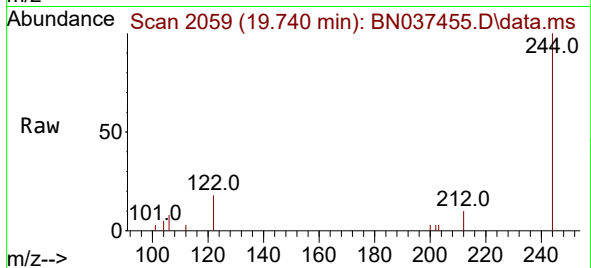
Tgt Ion:244 Resp: 2192

Ion Ratio Lower Upper

244 100

212 10.3 9.0 13.4

122 18.5 15.0 22.4



#32

Benzo(a)anthracene

Concen: 0.090 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.018 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

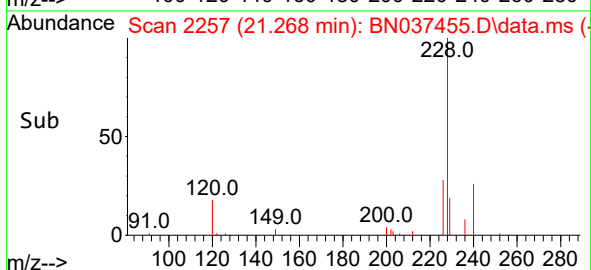
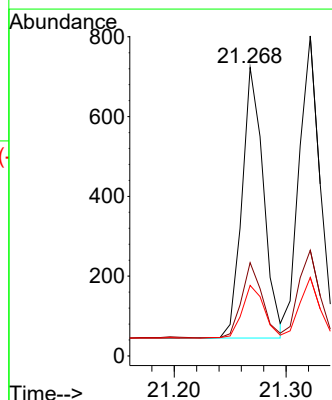
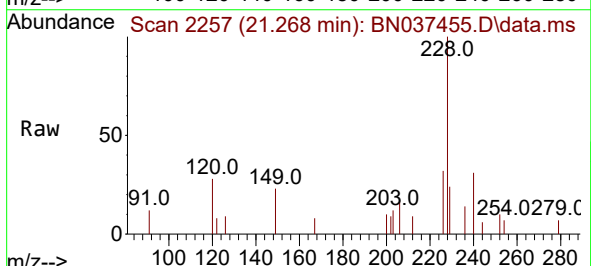
Tgt Ion:228 Resp: 904

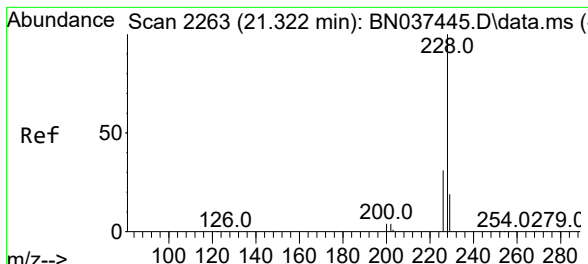
Ion Ratio Lower Upper

228 100

226 32.4 22.2 33.2

229 24.5 16.6 25.0

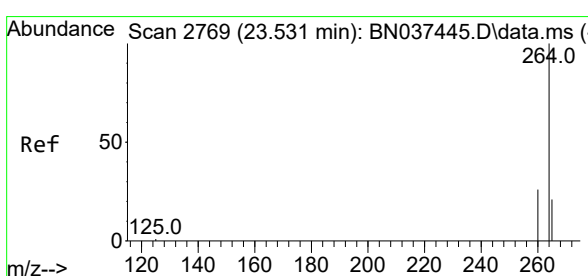
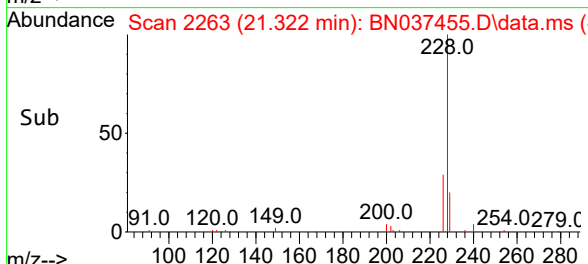
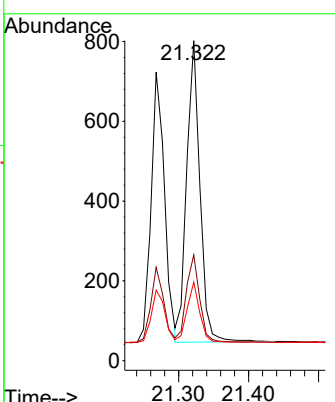
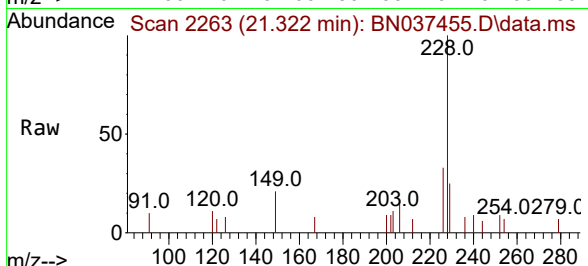




#33
 Chrysene
 Concen: 0.097 ng
 RT: 21.322 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN037455.D
 Acq: 10 Jul 2025 13:15

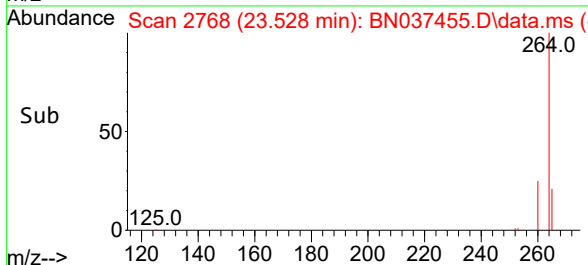
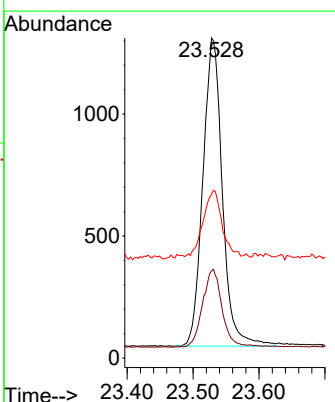
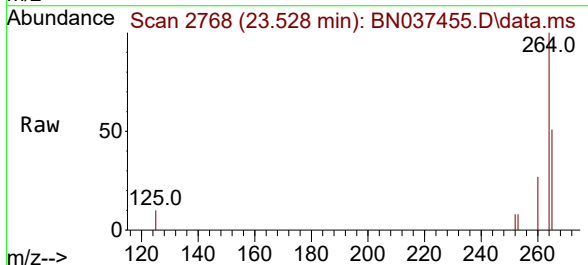
Instrument : BNA_N
 ClientSampleId : LOQ-SOIL-02-QT2-2025

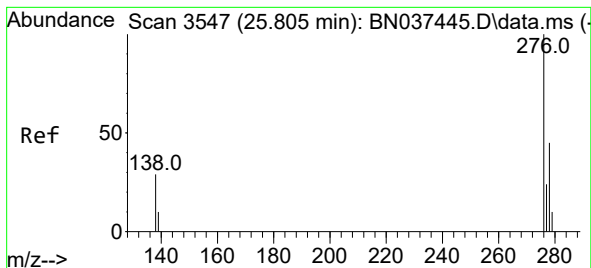
Tgt Ion:	228	Resp:	997
Ion Ratio	Lower	Upper	
228	100		
226	33.0	25.0	37.6
229	24.6	15.8	23.8#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.528 min Scan# 2768
 Delta R.T. -0.018 min
 Lab File: BN037455.D
 Acq: 10 Jul 2025 13:15

Tgt Ion:	264	Resp:	2595
Ion Ratio	Lower	Upper	
264	100		
260	27.2	22.1	33.1
265	51.2	30.1	45.1#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.087 ng

RT: 25.800 min Scan# 3547

Delta R.T. -0.026 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025

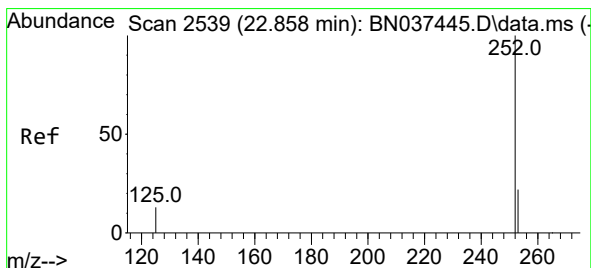
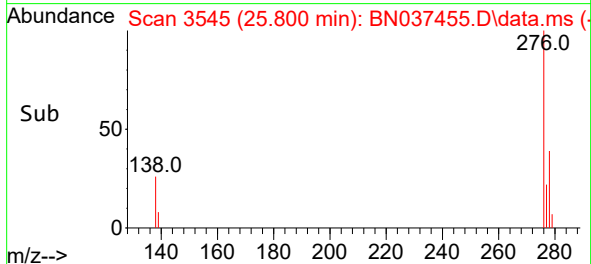
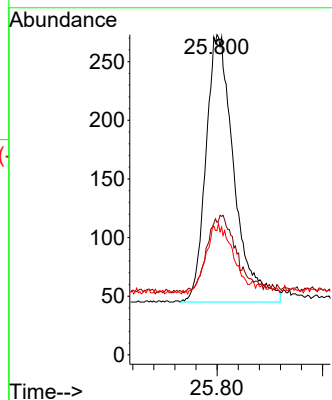
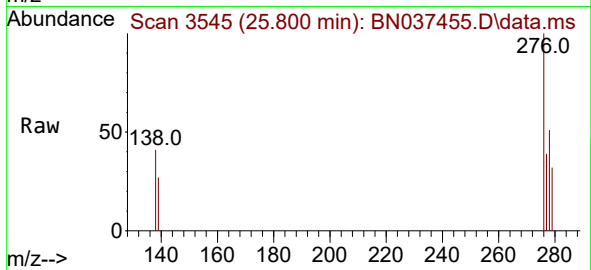
Tgt Ion:276 Resp: 843

Ion Ratio Lower Upper

276 100

138 28.8 27.8 41.8

277 9.6 19.8 29.8#



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 22.855 min Scan# 2538

Delta R.T. -0.015 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

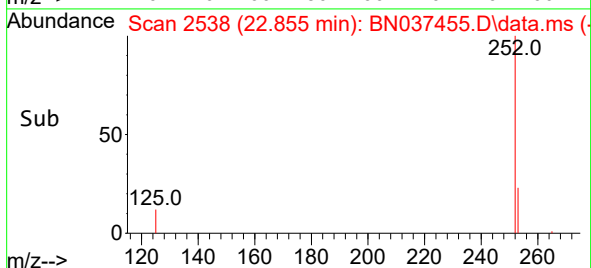
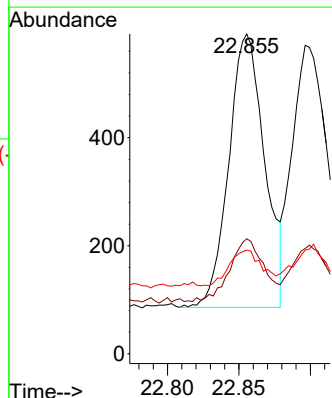
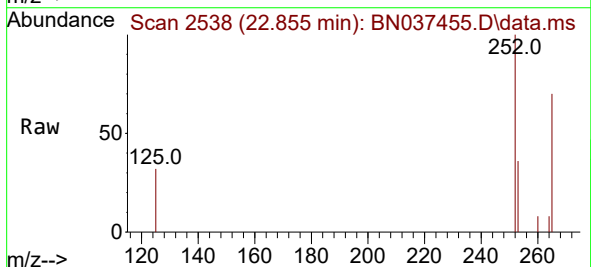
Tgt Ion:252 Resp: 884

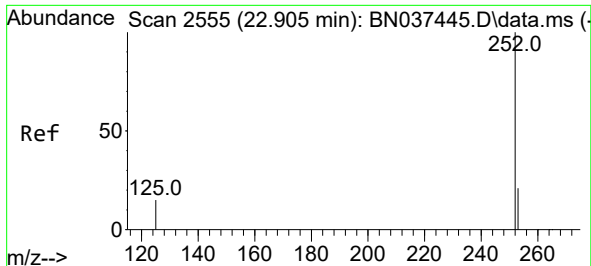
Ion Ratio Lower Upper

252 100

253 36.0 19.0 28.6#

125 32.4 13.0 19.6#

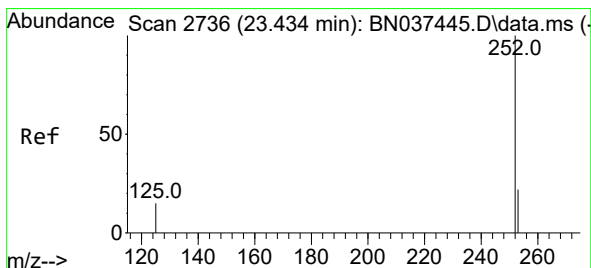
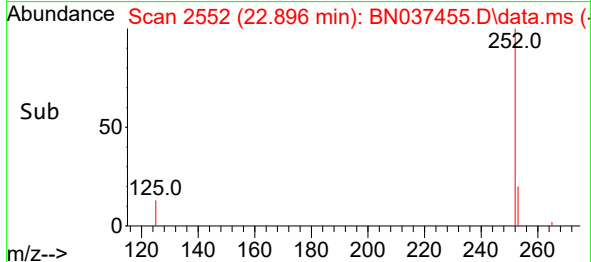
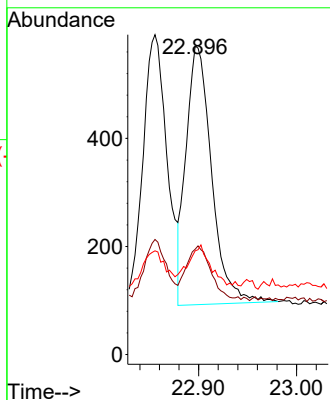
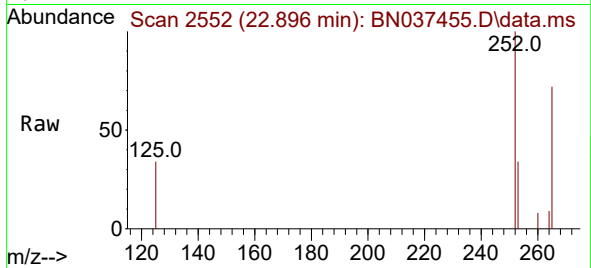




#38
Benzo(k)fluoranthene
Concen: 0.091 ng
RT: 22.896 min Scan# 21
Delta R.T. -0.020 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

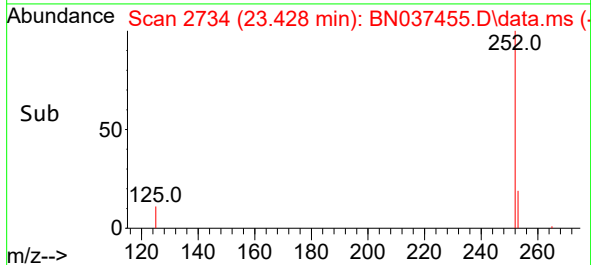
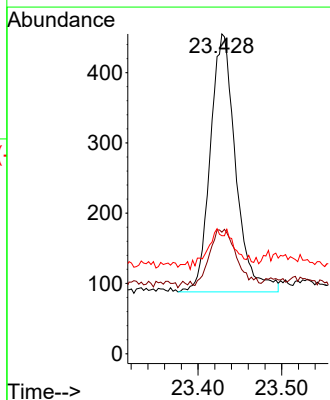
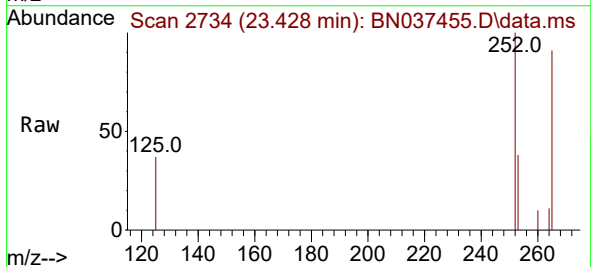
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT2-2025

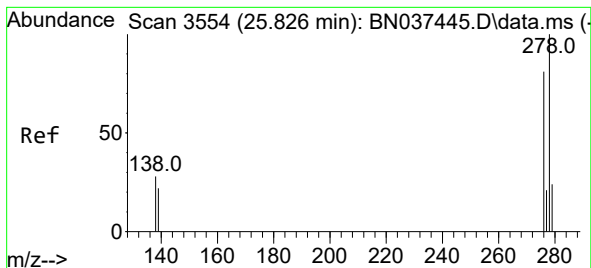
Tgt Ion:252 Resp: 870
Ion Ratio Lower Upper
252 100
253 34.2 19.0 28.6#
125 33.6 13.0 19.6#



#39
Benzo(a)pyrene
Concen: 0.098 ng
RT: 23.428 min Scan# 2734
Delta R.T. -0.018 min
Lab File: BN037455.D
Acq: 10 Jul 2025 13:15

Tgt Ion:252 Resp: 772
Ion Ratio Lower Upper
252 100
253 38.0 19.7 29.5#
125 36.9 15.4 23.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.823 min Scan# 3

Delta R.T. -0.020 min

Lab File: BN037455.D

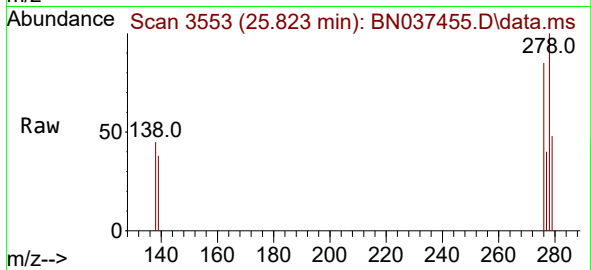
Acq: 10 Jul 2025 13:15

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT2-2025



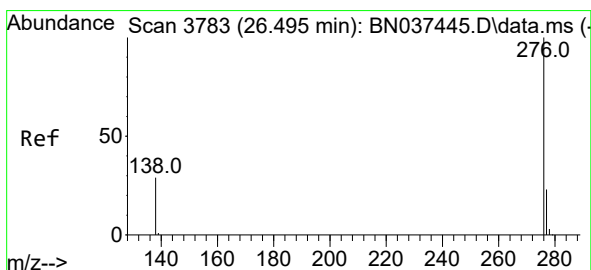
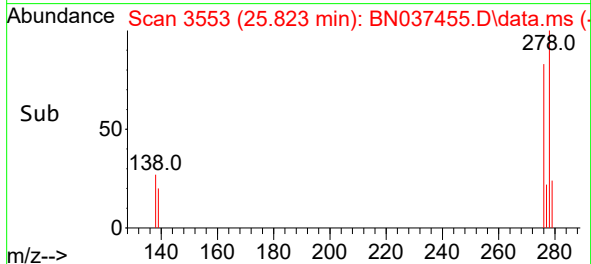
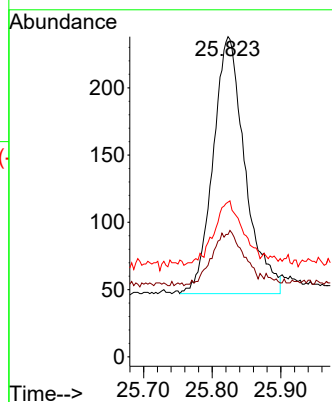
Tgt Ion:278 Resp: 616

Ion Ratio Lower Upper

278 100

139 38.2 21.2 31.8#

279 48.3 22.7 34.1#



#41

Benzo(g,h,i)perylene

Concen: 0.089 ng

RT: 26.490 min Scan# 3781

Delta R.T. -0.026 min

Lab File: BN037455.D

Acq: 10 Jul 2025 13:15

Tgt Ion:276 Resp: 748

Ion Ratio Lower Upper

276 100

277 39.2 19.8 29.8#

138 41.0 25.9 38.9#

