

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
 Data File : BN036995.D
 Acq On : 13 May 2025 14:20
 Operator : RC/JU
 Sample : Q1872-11DL 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-BNA-SOILD

Quant Time: May 13 14:45:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 2025
 Response via : Initial Calibration

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

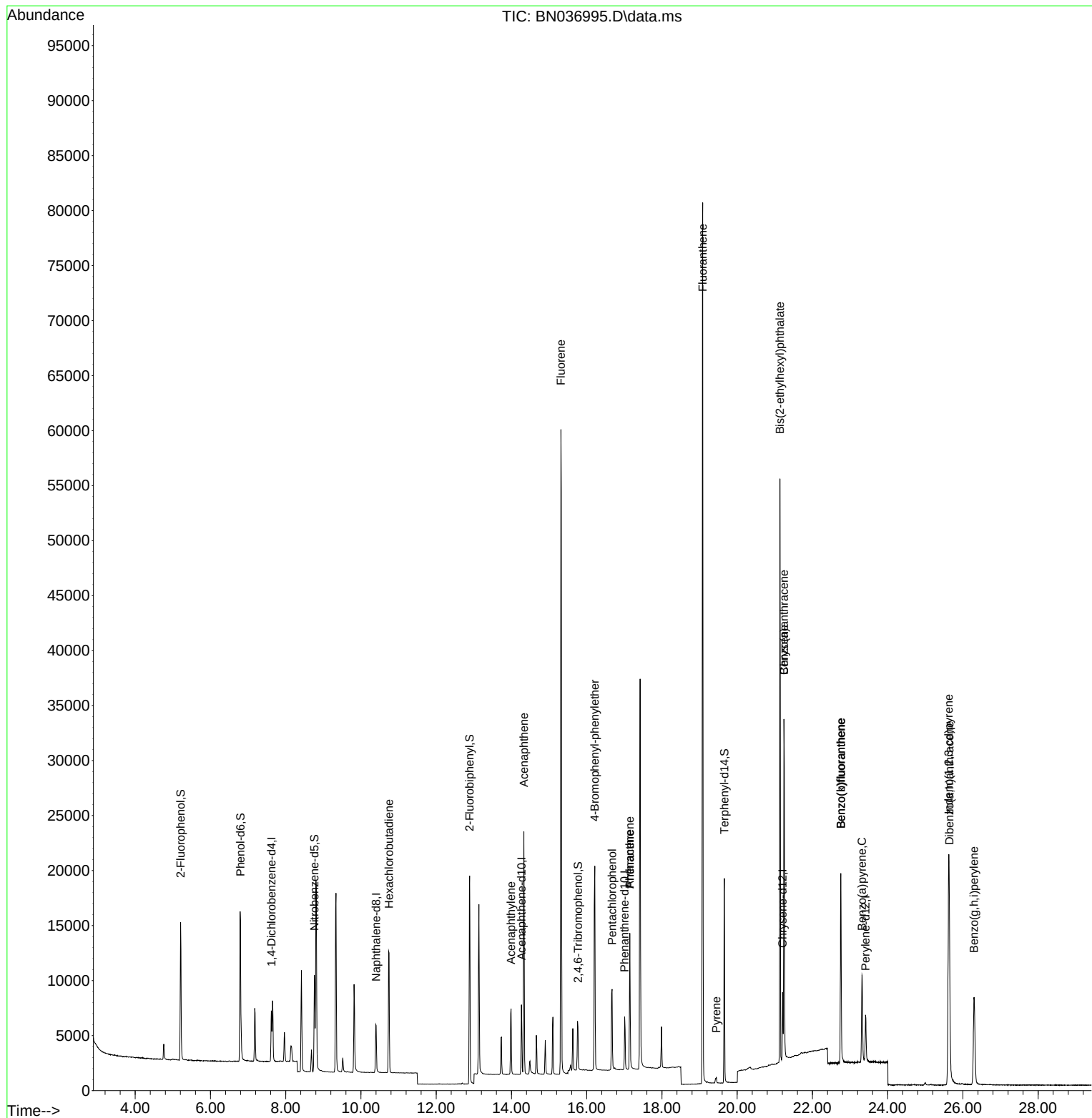
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2126	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5894	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	3337	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	6540	0.400	ng	0.00
29) Chrysene-d12	21.206	240	5786	0.400	ng	0.00
35) Perylene-d12	23.412	264	5499	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	8807	1.607	ng	0.00
5) Phenol-d6	6.795	99	11407	1.717	ng	0.00
8) Nitrobenzene-d5	8.760	82	7065	1.137	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	2	0.000	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2452	1.602	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	18683	1.199	ng	0.00
27) Fluoranthene-d10	19.054	212	8	0.000	ng	0.00
31) Terphenyl-d14	19.658	244	16875	1.288	ng	0.00
Target Compounds						
						Qvalue
10) Hexachlorobutadiene	10.746	225	9370	2.551	ng	# 99
16) Acenaphthylene	13.989	152	7041	0.432	ng	99
17) Acenaphthene	14.331	154	9825	0.917	ng	98
18) Fluorene	15.314	166	37721	2.627	ng	99
21) 4-Bromophenyl-phenylether	16.214	248	6629	1.561	ng	# 91
24) Pentachlorophenol	16.673	266	3756	1.491	ng	97
25) Phenanthrene	17.145	178	12443	0.580	ng	99
26) Anthracene	17.145	178	12699	0.647	ng	100
28) Fluoranthene	19.082	202	68387	2.703	ng	98
30) Pyrene	19.444	202	575	0.022	ng	# 57
32) Benzo(a)anthracene	21.242	228	26897	1.229	ng	95
33) Chrysene	21.242	228	27049	1.170	ng	99
34) Bis(2-ethylhexyl)phtha...	21.135	149	45056	3.343	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.623	276	31073	1.430	ng	99
37) Benzo(b)fluoranthene	22.754	252	21045	0.918	ng	94
38) Benzo(k)fluoranthene	22.754	252	21045	0.924	ng	94
39) Benzo(a)pyrene	23.316	252	11888	0.625	ng	92
40) Dibenzo(a,h)anthracene	25.637	278	13022	0.768	ng	94
41) Benzo(g,h,i)perylene	26.295	276	15910	0.847	ng	98

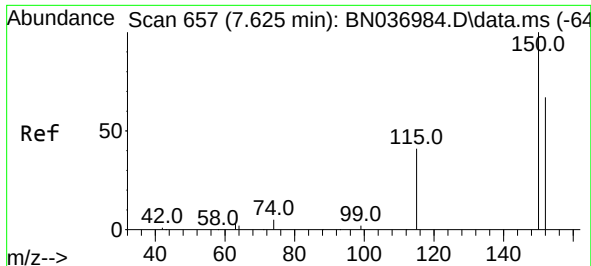
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
Data File : BN036995.D
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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILDL

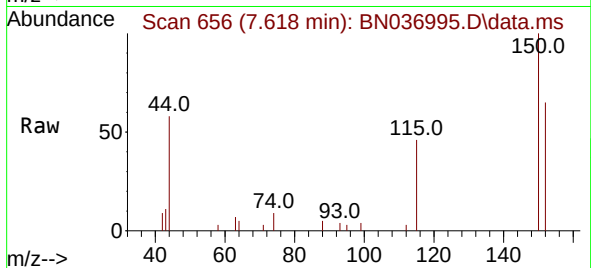
Quant Time: May 13 14:45:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 18:05:36 2025
Response via : Initial Calibration



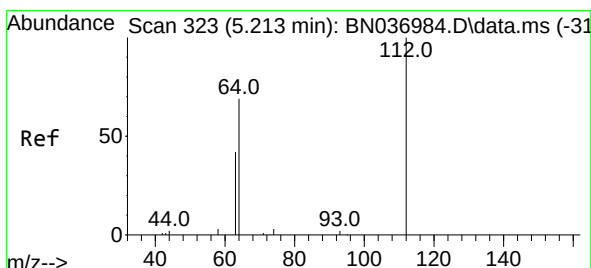
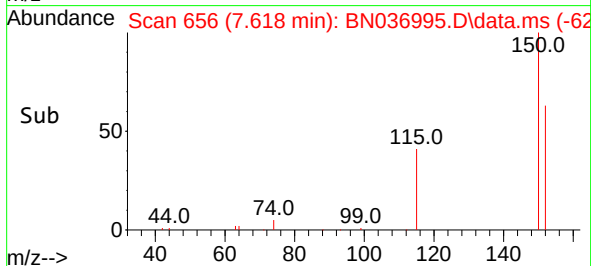
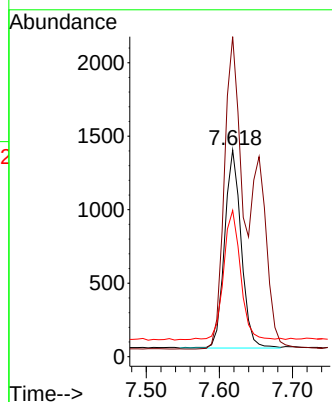


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

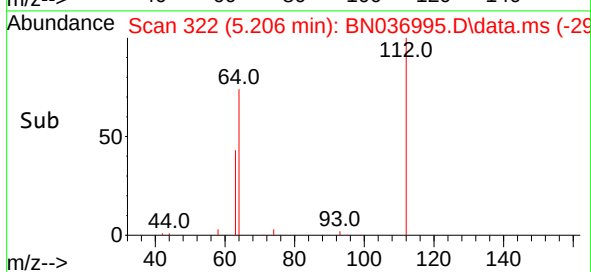
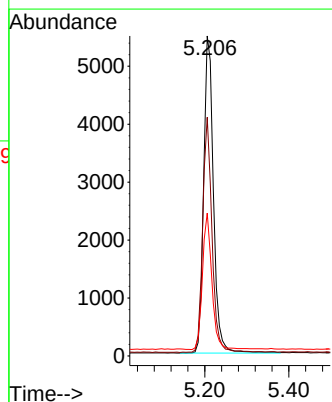
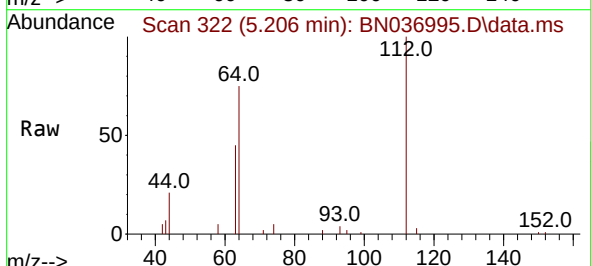


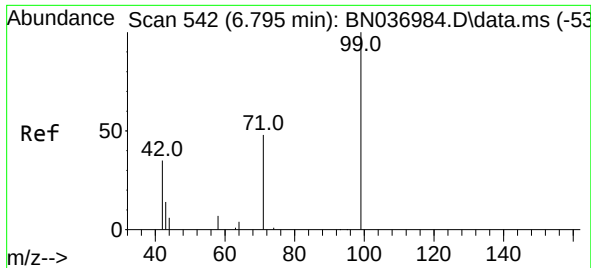
Tgt Ion:152 Resp: 2126
Ion Ratio Lower Upper
152 100
150 154.7 118.2 177.4
115 70.7 52.5 78.7



#4
2-Fluorophenol
Concen: 1.607 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

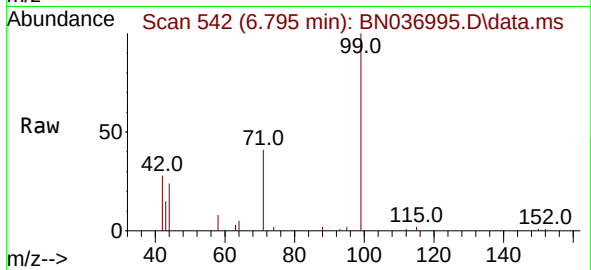
Tgt Ion:112 Resp: 8807
Ion Ratio Lower Upper
112 100
64 70.9 56.2 84.2
63 41.8 34.3 51.5



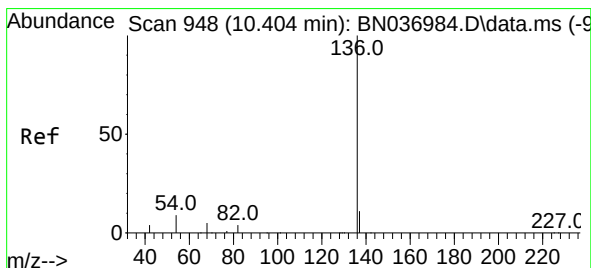
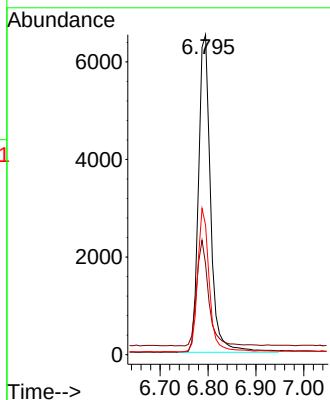
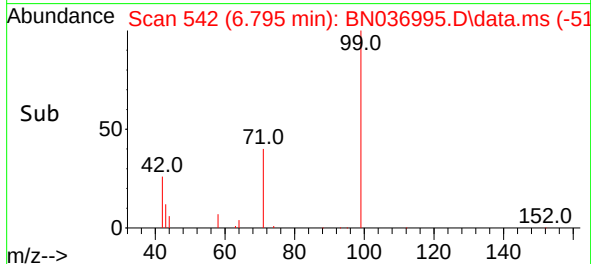


#5
Phenol-d6
Concen: 1.717 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

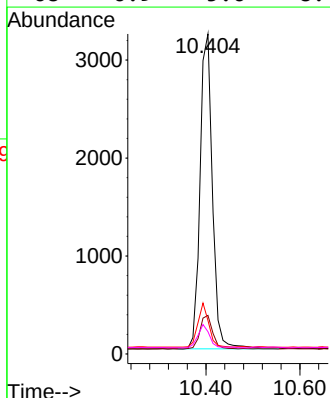
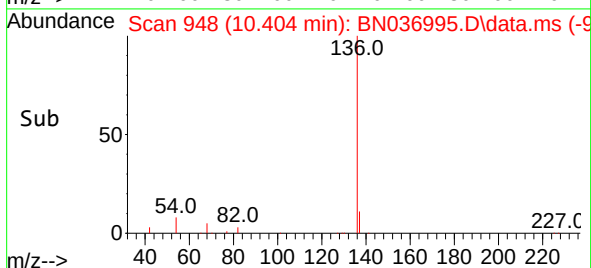
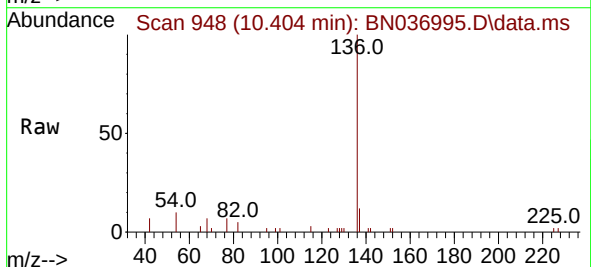


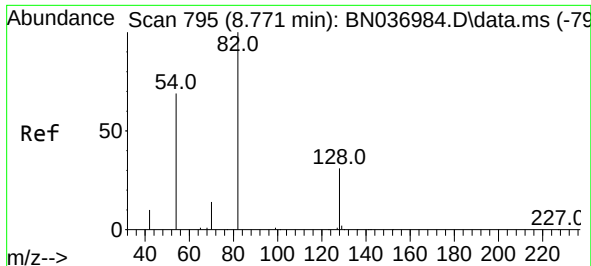
Tgt Ion:	99	Resp:	11407
Ion	Ratio	Lower	Upper
99	100		
42	32.9	29.0	43.6
71	43.2	36.2	54.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:	136	Resp:	5894
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.3	15.5
54	10.4	9.2	13.8
68	6.9	5.6	8.4

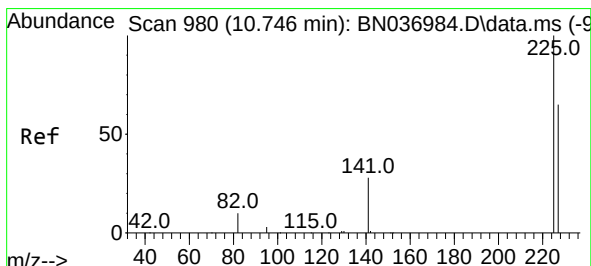
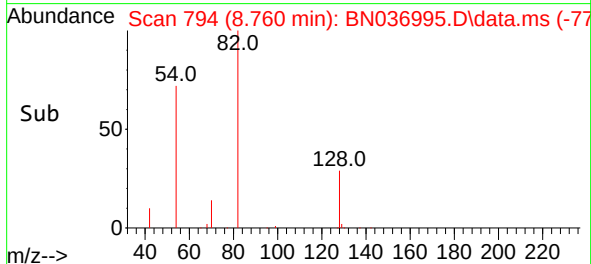
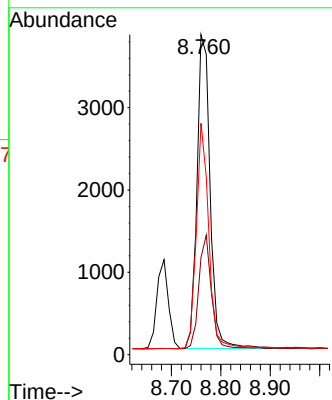
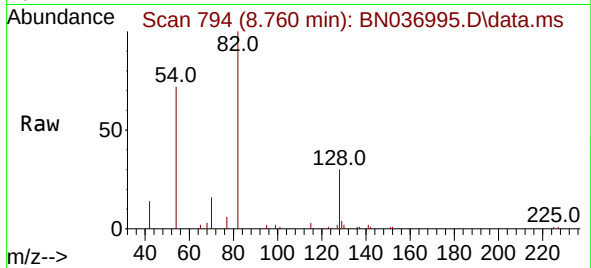




#8
Nitrobenzene-d5
Concen: 1.137 ng
RT: 8.760 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

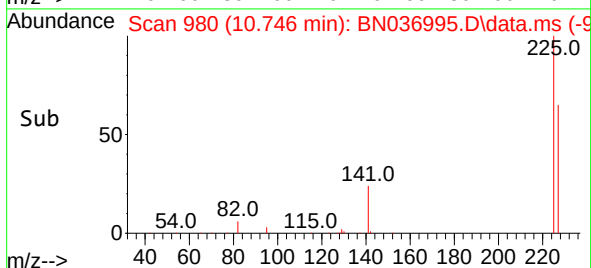
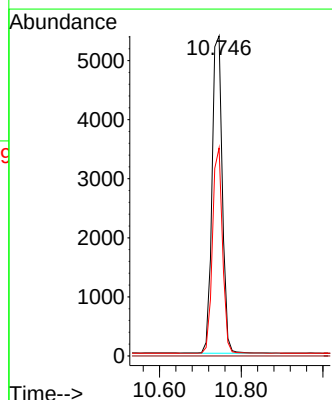
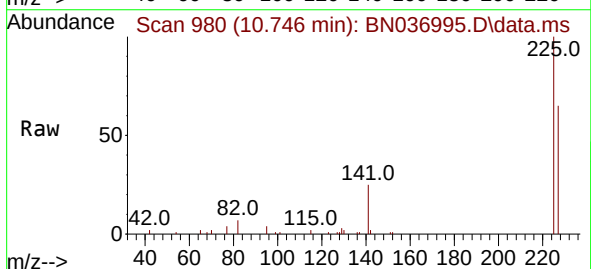
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

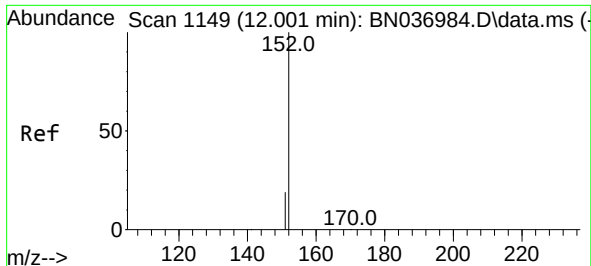
Tgt Ion: 82 Resp: 7065
Ion Ratio Lower Upper
82 100
128 30.4 28.1 42.1
54 72.3 56.4 84.6



#10
Hexachlorobutadiene
Concen: 2.551 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion: 225 Resp: 9370
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 51.2 76.8

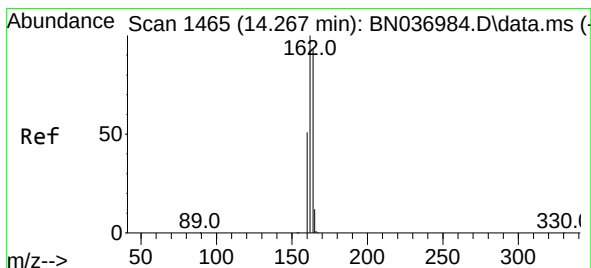
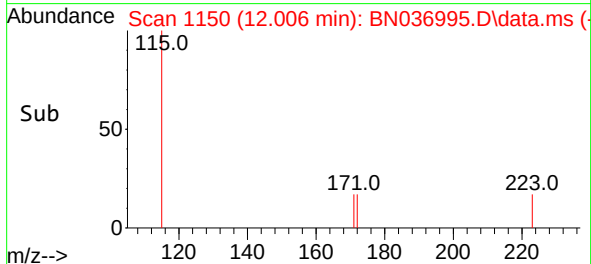
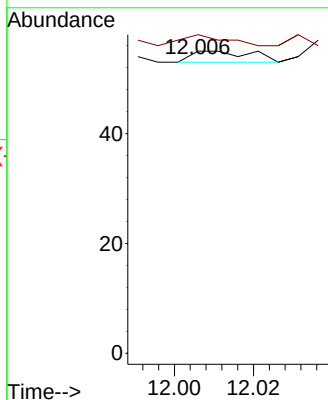
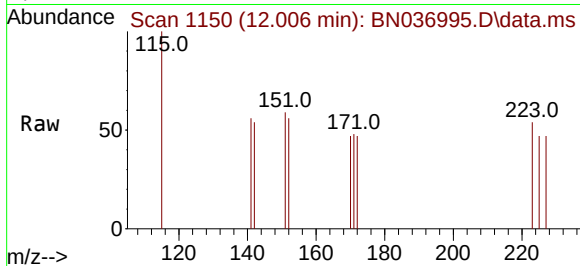




#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 12.006 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

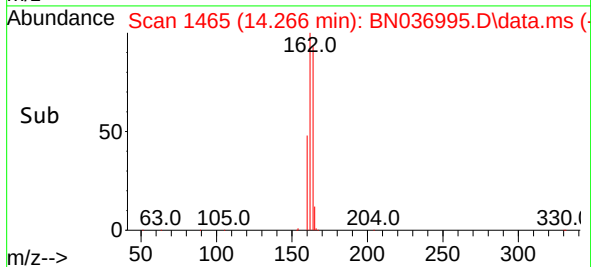
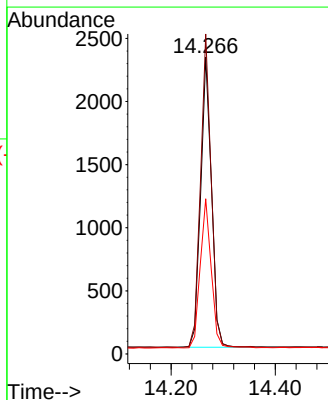
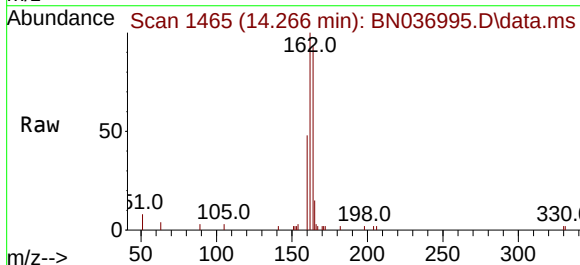
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

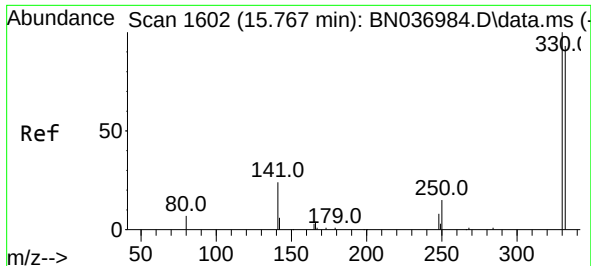
Tgt Ion:152 Resp: 2
Ion Ratio Lower Upper
152 100
151 100.0 17.4 26.2#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

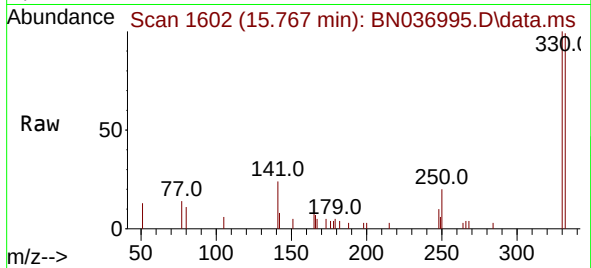
Tgt Ion:164 Resp: 3337
Ion Ratio Lower Upper
164 100
162 107.7 86.1 129.1
160 52.2 44.6 67.0



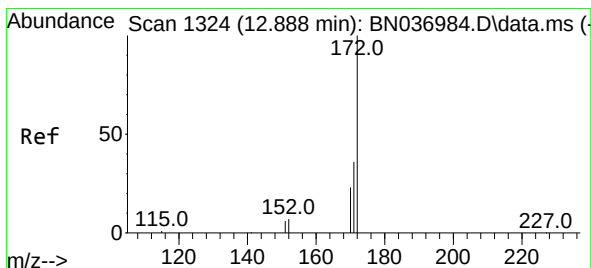
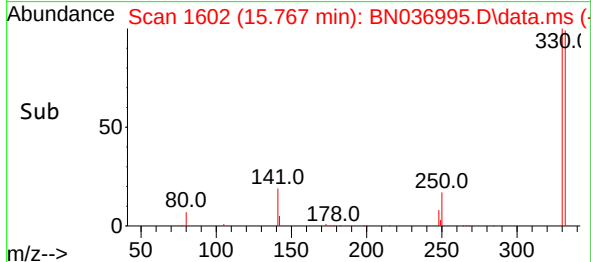
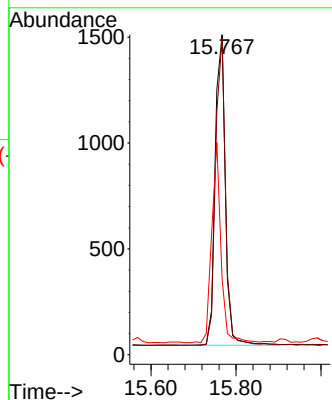


#14
2,4,6-Tribromophenol
Concen: 1.602 ng
RT: 15.767 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

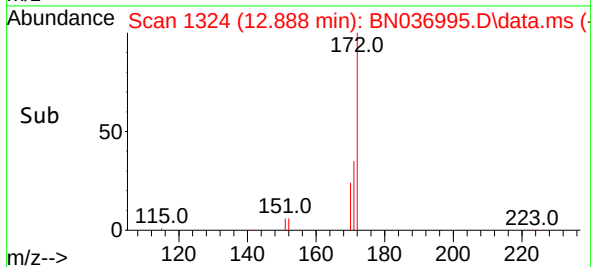
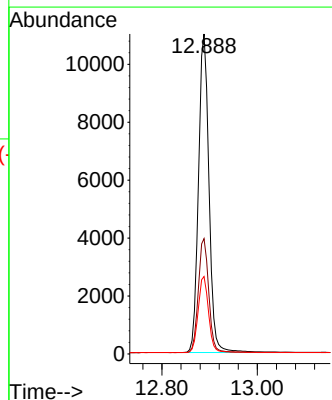
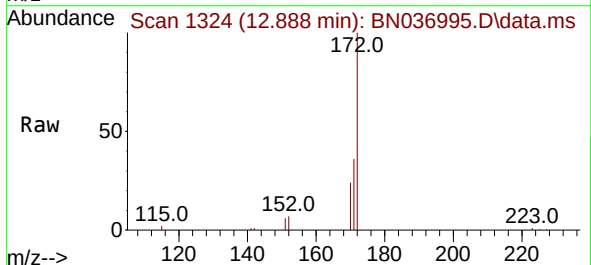


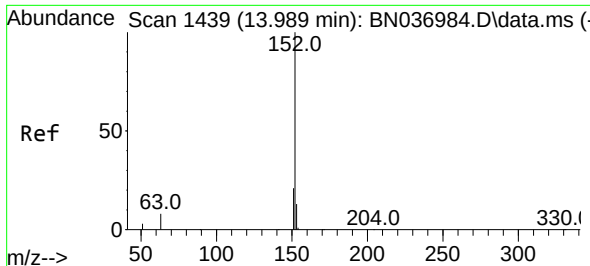
Tgt Ion:330 Resp: 2452
Ion Ratio Lower Upper
330 100
332 96.9 75.6 113.4
141 58.4 47.4 71.2



#15
2-Fluorobiphenyl
Concen: 1.199 ng
RT: 12.888 min Scan# 1324
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:172 Resp: 18683
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.2
170 24.2 19.4 29.0

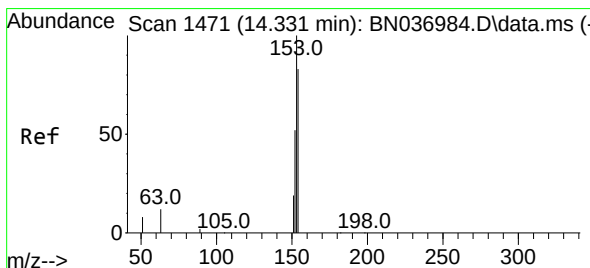
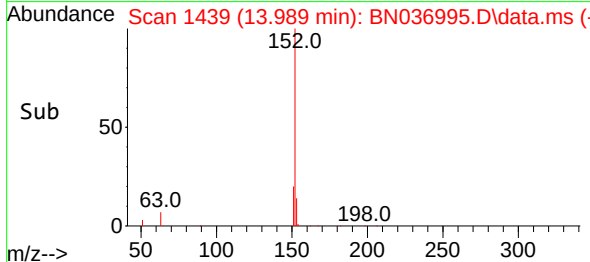
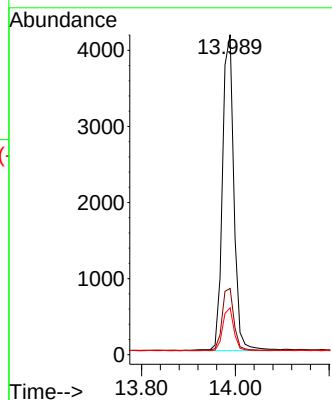
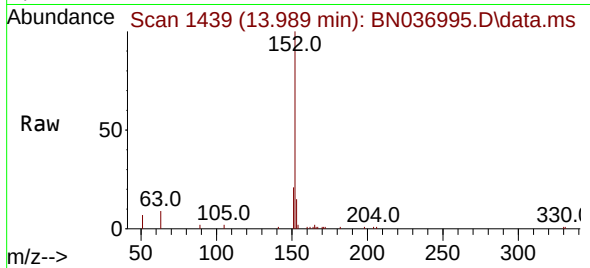




#16
Acenaphthylene
Concen: 0.432 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

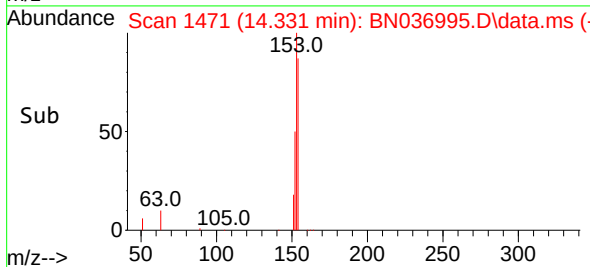
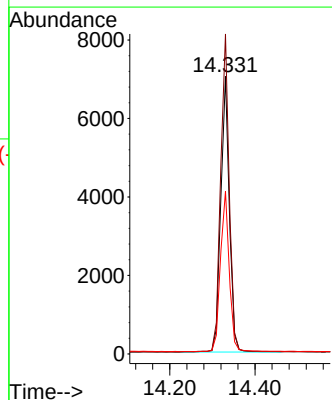
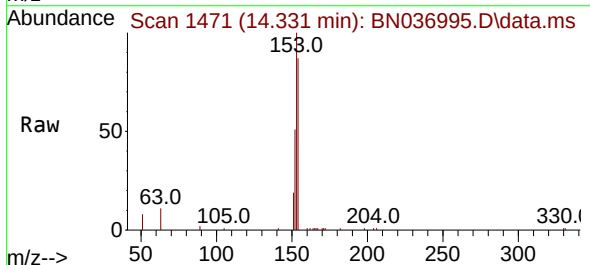
Instrument :
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ClientSampleId :
HW0425-PT-BNA-SOILD

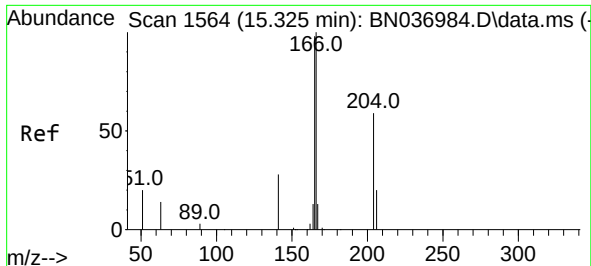
Tgt Ion:152 Resp: 7041
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.4
153 13.3 10.9 16.3



#17
Acenaphthene
Concen: 0.917 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

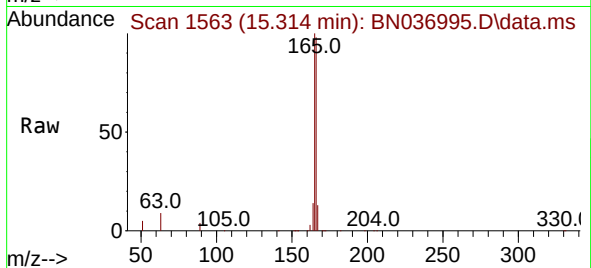
Tgt Ion:154 Resp: 9825
Ion Ratio Lower Upper
154 100
153 116.2 94.6 142.0
152 60.4 49.4 74.2



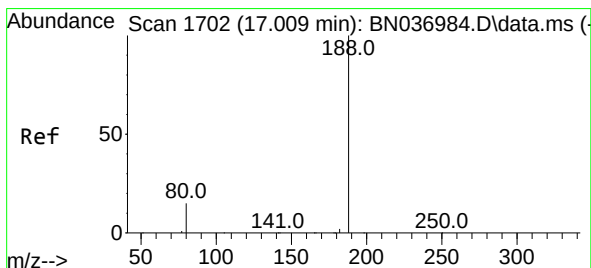
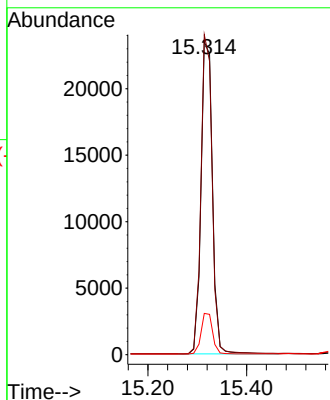
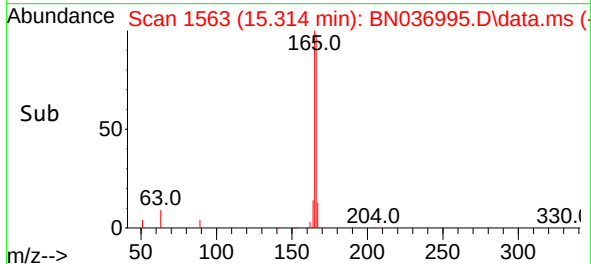


#18
Fluorene
Concen: 2.627 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.011 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

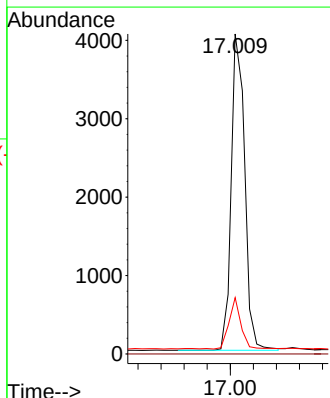
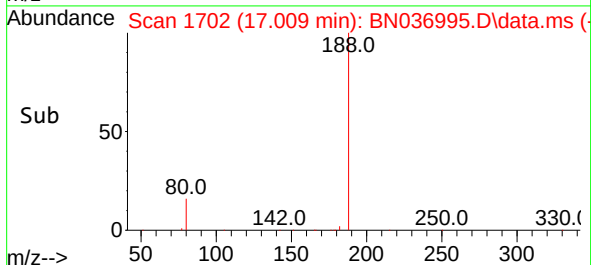
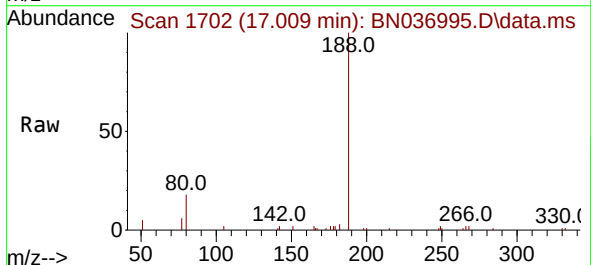


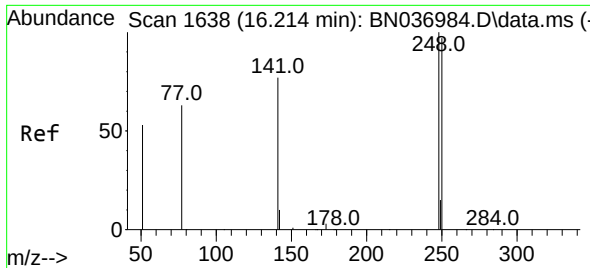
Tgt Ion:166 Resp: 37721
Ion Ratio Lower Upper
166 100
165 100.1 81.0 121.4
167 13.1 10.6 16.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:188 Resp: 6540
Ion Ratio Lower Upper
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94 0.0 0.0 0.0
80 17.6 13.4 20.0

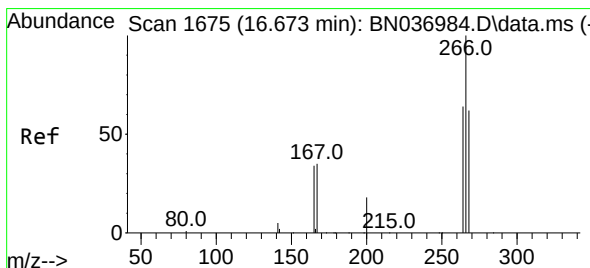
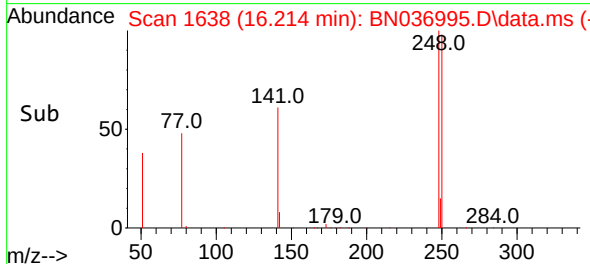
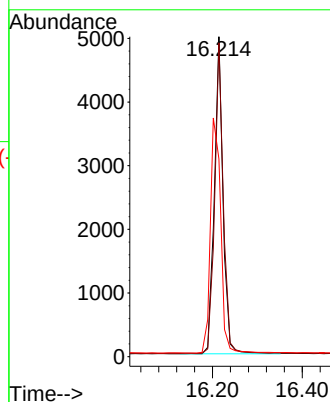
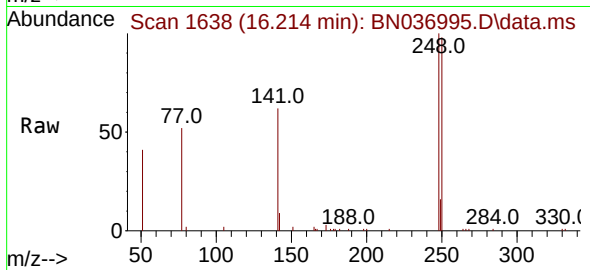




#21
4-Bromophenyl-phenylether
Concen: 1.561 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

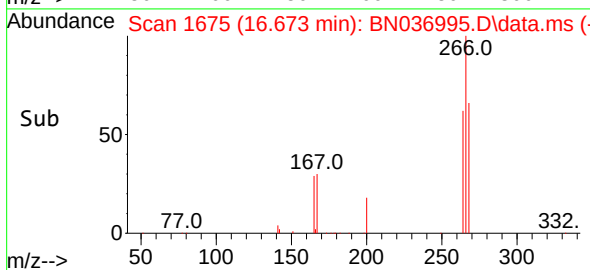
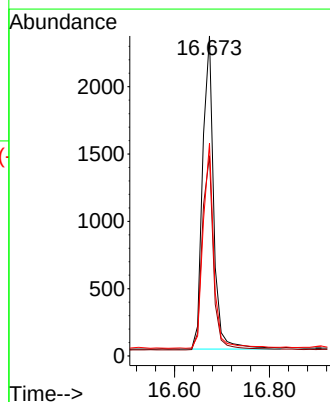
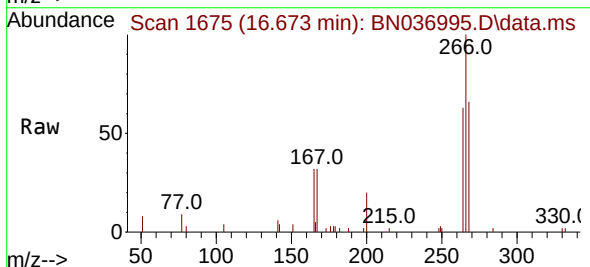
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

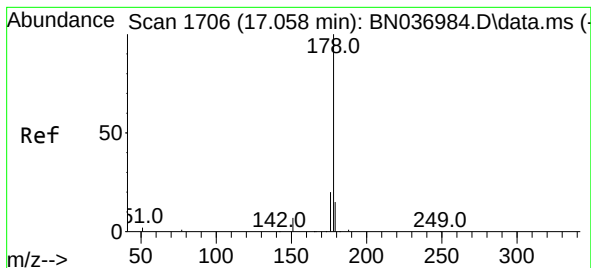
Tgt Ion:248 Resp: 6629
Ion Ratio Lower Upper
248 100
250 98.1 77.8 116.8
141 61.8 63.1 94.7#



#24
Pentachlorophenol
Concen: 1.491 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:266 Resp: 3756
Ion Ratio Lower Upper
266 100
264 63.1 52.8 79.2
268 64.0 50.0 75.0





#25

Phenanthrene

Concen: 0.580 ng

RT: 17.145 min Scan# 1713

Delta R.T. 0.087 min

Lab File: BN036995.D

Acq: 13 May 2025 14:20

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-BNA-SOILD

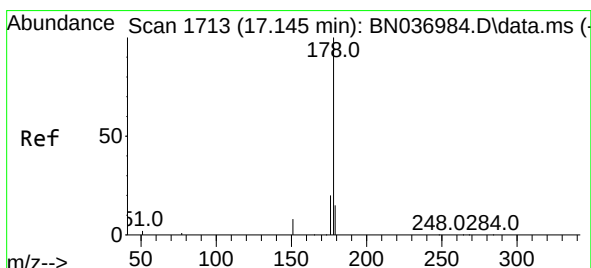
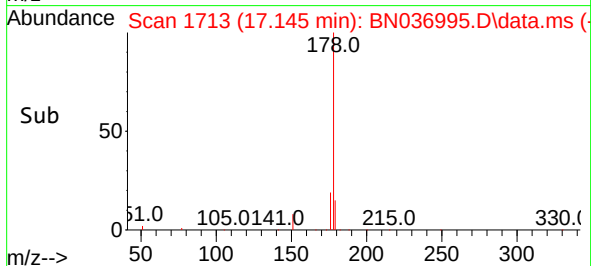
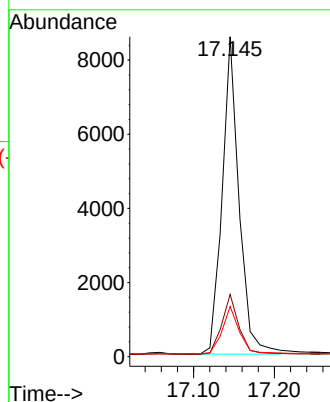
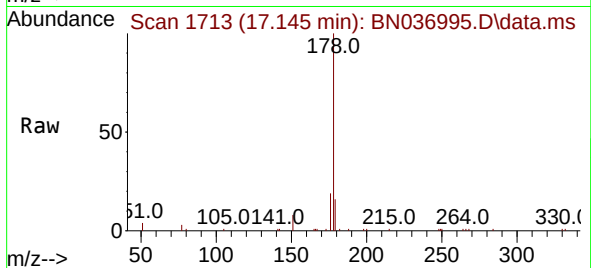
Tgt Ion:178 Resp: 12443

Ion Ratio Lower Upper

178 100

176 19.1 16.0 24.0

179 15.1 12.3 18.5



#26

Anthracene

Concen: 0.647 ng

RT: 17.145 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN036995.D

Acq: 13 May 2025 14:20

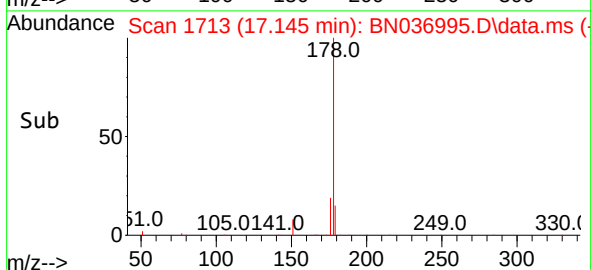
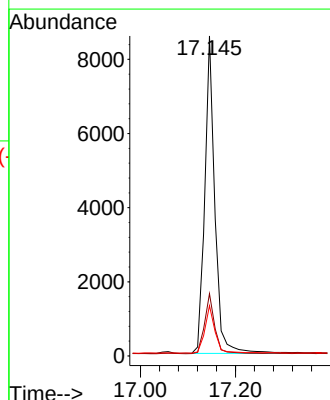
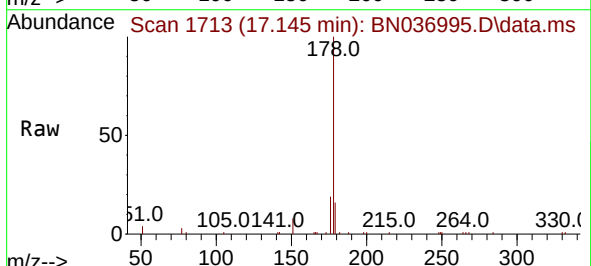
Tgt Ion:178 Resp: 12699

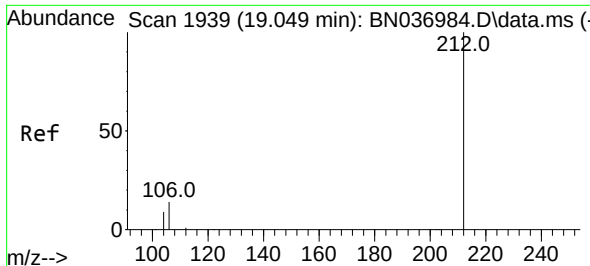
Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

179 15.0 12.2 18.2

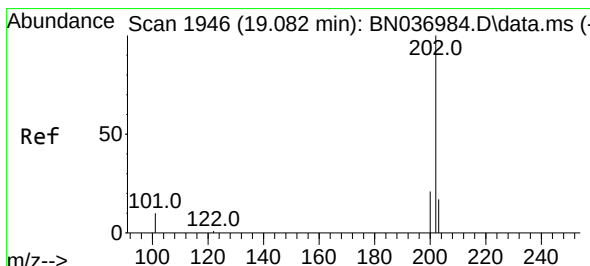
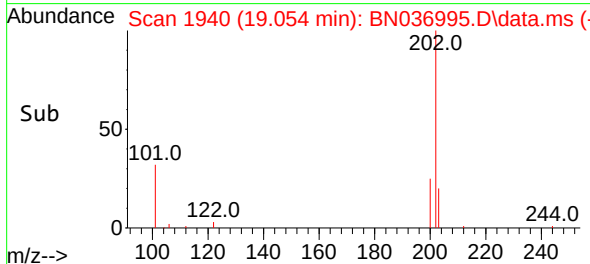
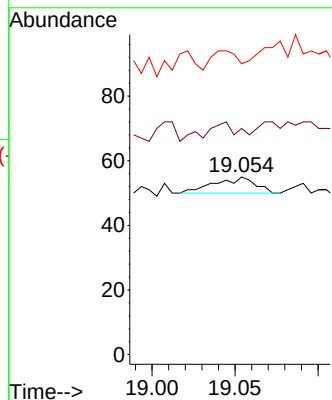
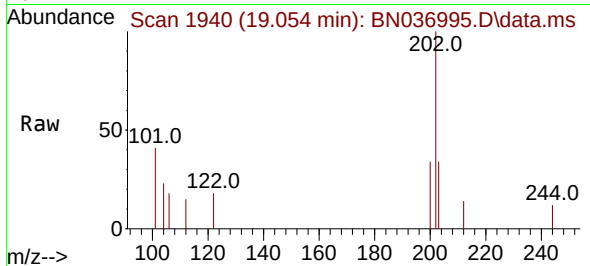




#27
Fluoranthene-d10
Concen: 0.000 ng
RT: 19.054 min Scan# 1940
Delta R.T. 0.005 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

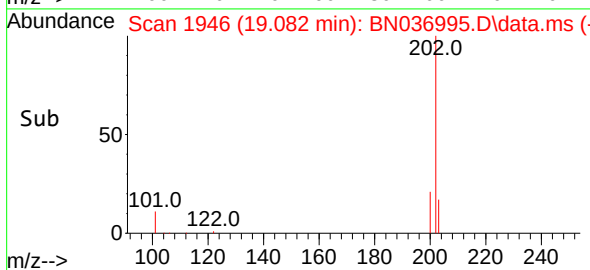
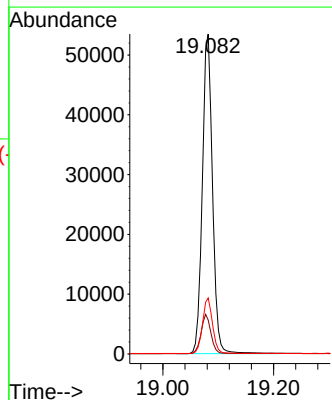
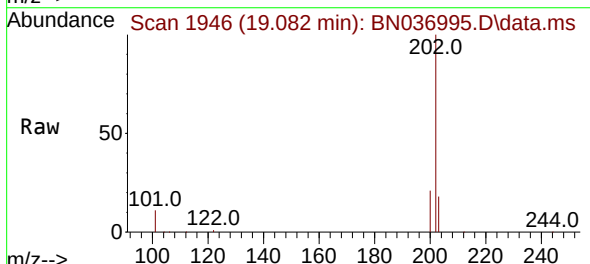
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

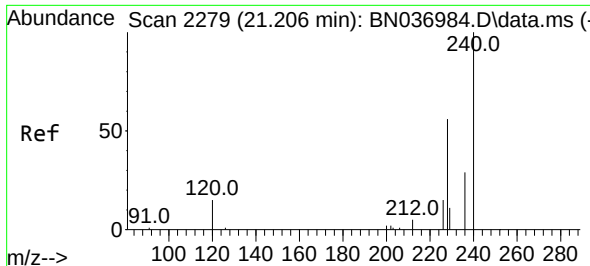
Tgt Ion:212 Resp: 8
Ion Ratio Lower Upper
212 100
106 37.5 11.3 16.9#
104 75.0 7.0 10.4#



#28
Fluoranthene
Concen: 2.703 ng
RT: 19.082 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:202 Resp: 68387
Ion Ratio Lower Upper
202 100
101 11.8 8.6 12.8
203 17.3 13.5 20.3

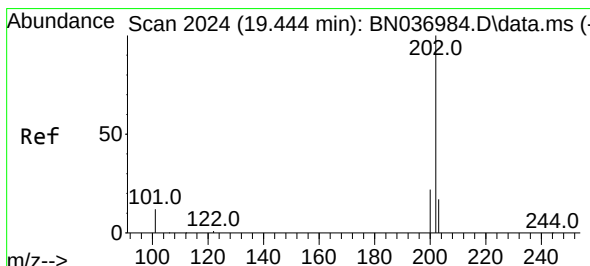
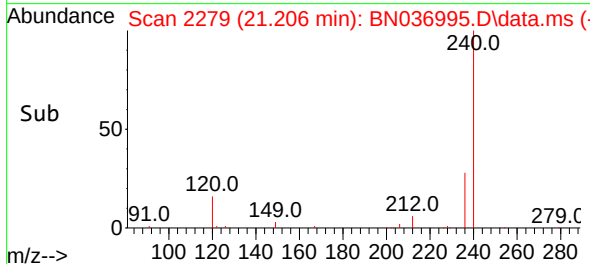
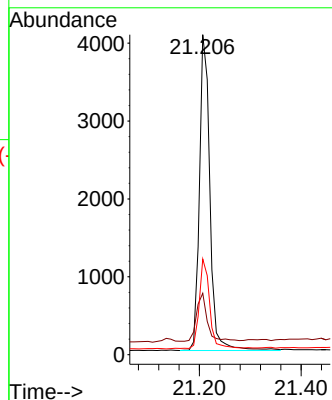
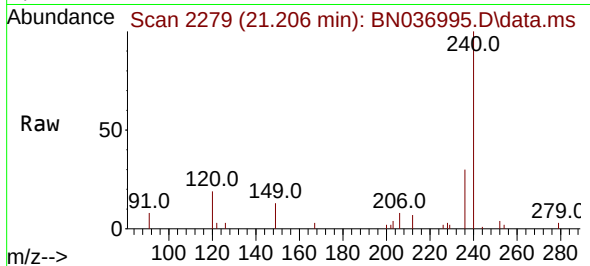




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

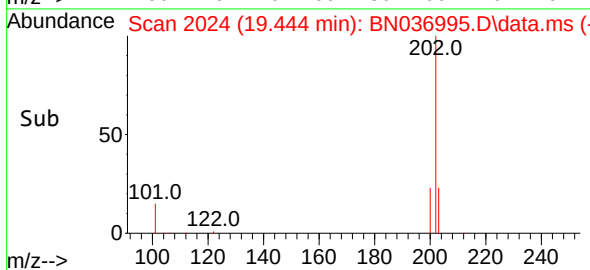
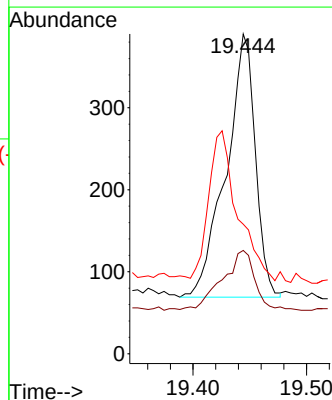
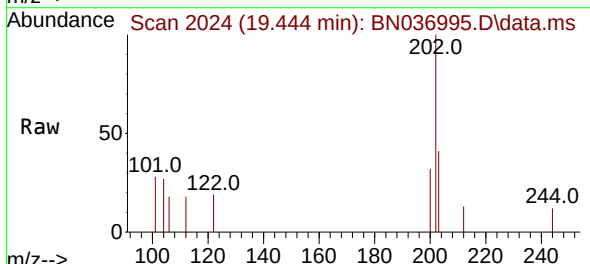
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

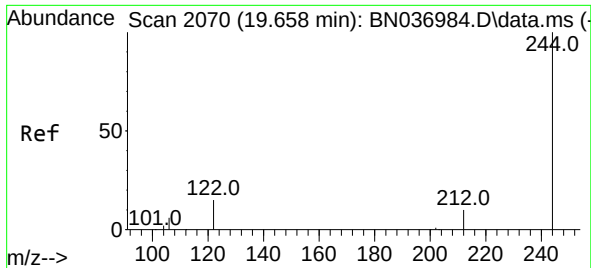
Tgt Ion:240 Resp: 5786
Ion Ratio Lower Upper
240 100
120 19.2 14.5 21.7
236 29.9 24.3 36.5



#30
Pyrene
Concen: 0.022 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:202 Resp: 575
Ion Ratio Lower Upper
202 100
200 25.4 17.3 25.9
203 56.0 14.4 21.6#

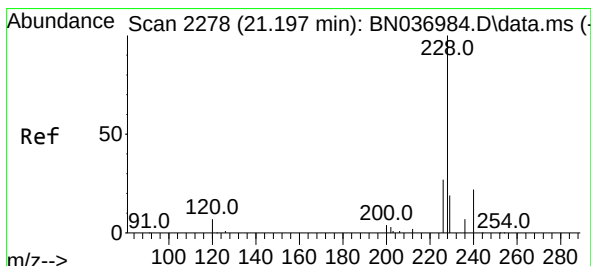
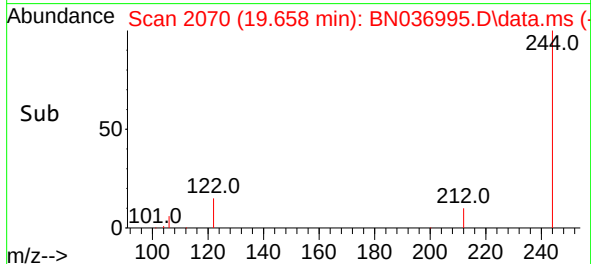
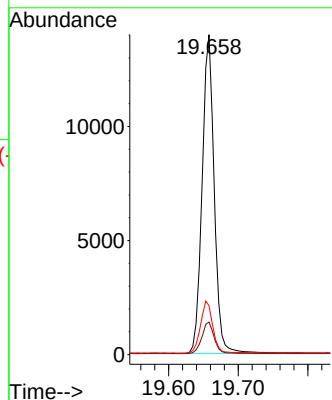
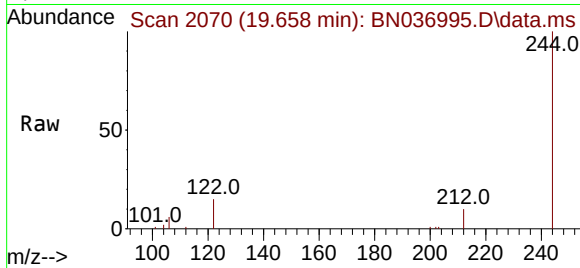




#31
 Terphenyl-d14
 Concen: 1.288 ng
 RT: 19.658 min Scan# 2070
 Delta R.T. -0.000 min
 Lab File: BN036995.D
 Acq: 13 May 2025 14:20

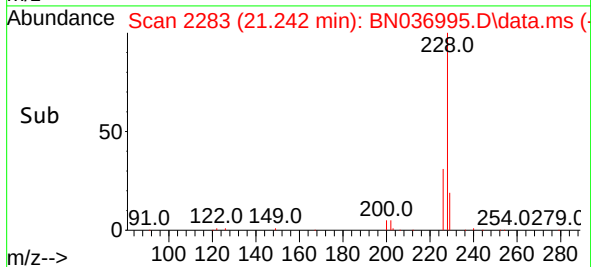
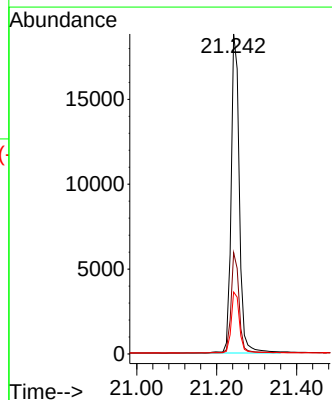
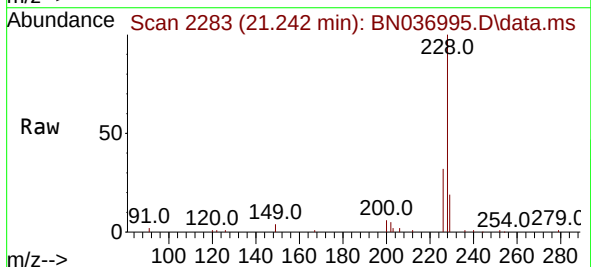
Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-BNA-SOILD

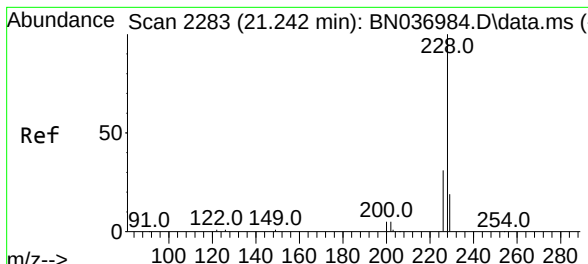
Tgt Ion:244 Resp: 16875
 Ion Ratio Lower Upper
 244 100
 212 10.2 9.5 14.3
 122 15.3 13.4 20.0



#32
 Benzo(a)anthracene
 Concen: 1.229 ng
 RT: 21.242 min Scan# 2283
 Delta R.T. 0.045 min
 Lab File: BN036995.D
 Acq: 13 May 2025 14:20

Tgt Ion:228 Resp: 26897
 Ion Ratio Lower Upper
 228 100
 226 31.7 22.4 33.6
 229 19.4 16.0 24.0

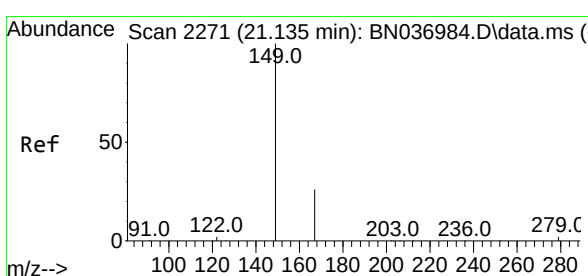
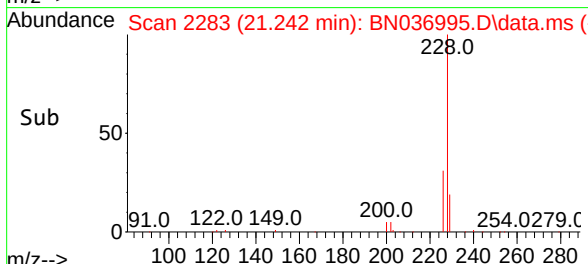
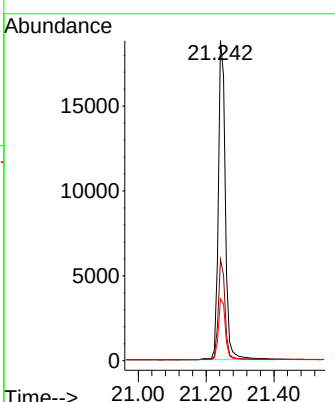
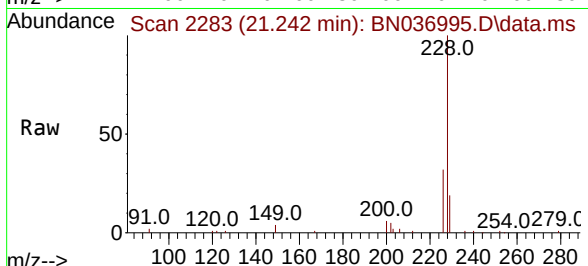




#33
 Chrysene
 Concen: 1.170 ng
 RT: 21.242 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036995.D
 Acq: 13 May 2025 14:20

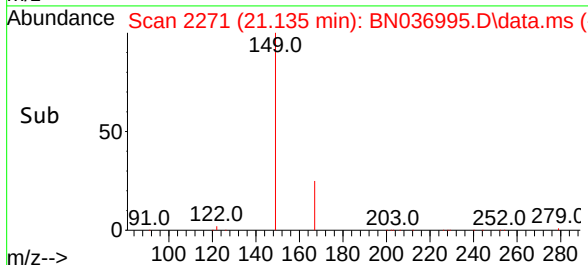
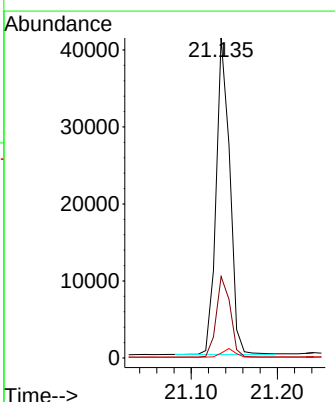
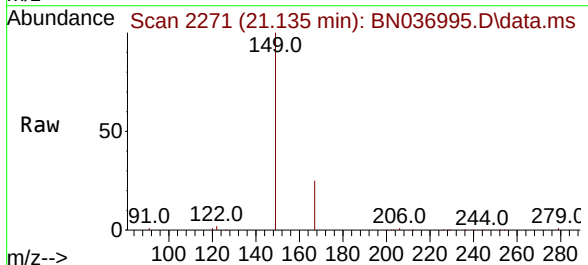
Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-BNA-SOILD

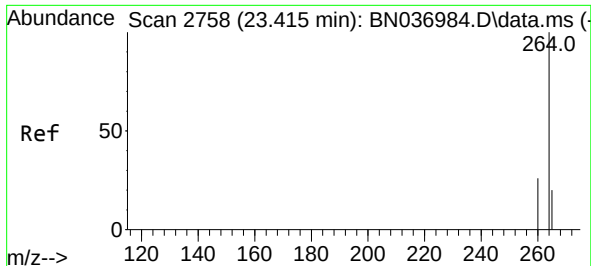
Tgt Ion:	228	Resp:	27049
Ion Ratio	Lower	Upper	
228	100		
226	31.7	25.7	38.5
229	19.4	16.0	24.0



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 3.343 ng
 RT: 21.135 min Scan# 2271
 Delta R.T. -0.000 min
 Lab File: BN036995.D
 Acq: 13 May 2025 14:20

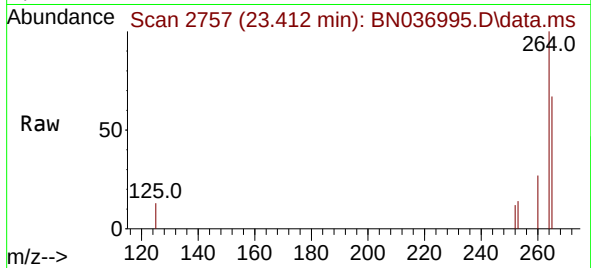
Tgt Ion:	149	Resp:	45056
Ion Ratio	Lower	Upper	
149	100		
167	26.2	21.0	31.6
279	2.6	2.7	4.1#





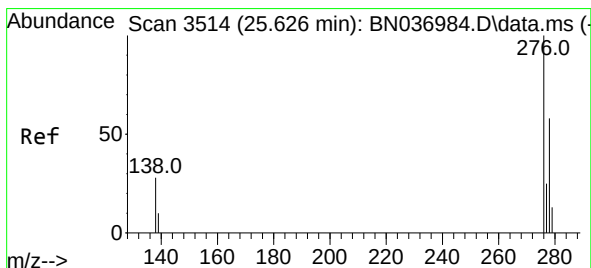
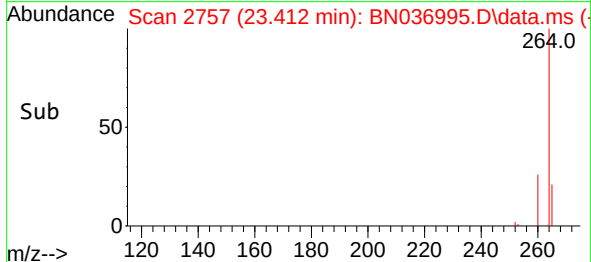
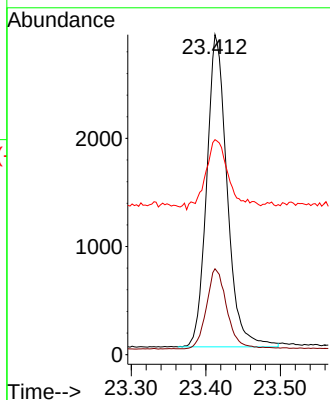
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD



Tgt Ion:264 Resp: 5499

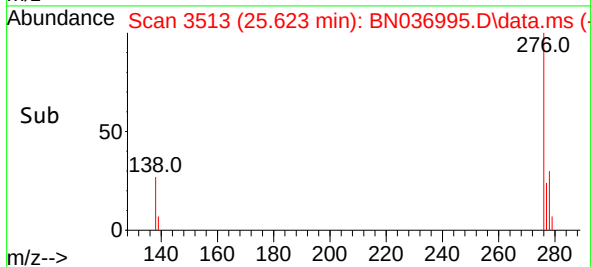
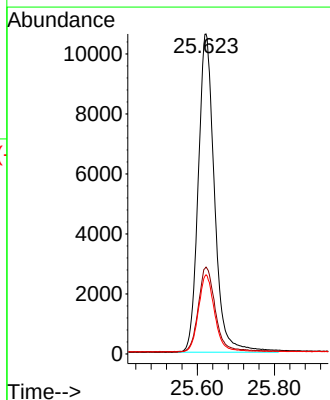
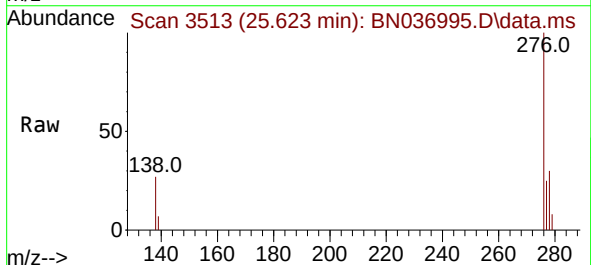
Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.3	33.5
265	67.2	55.4	83.0

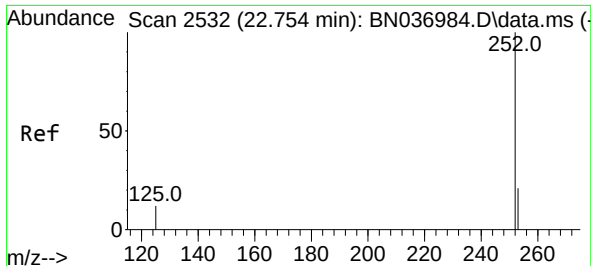


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.430 ng
RT: 25.623 min Scan# 3513
Delta R.T. -0.003 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:276 Resp: 31073

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.8	32.8
277	24.1	20.2	30.4

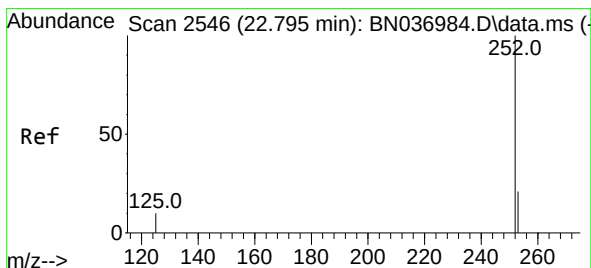
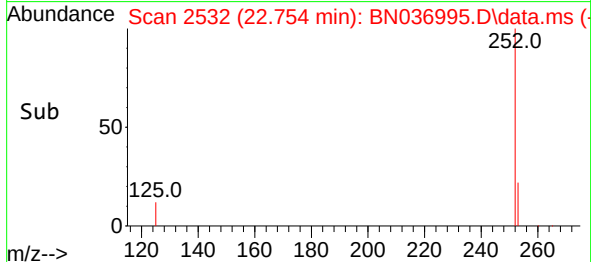
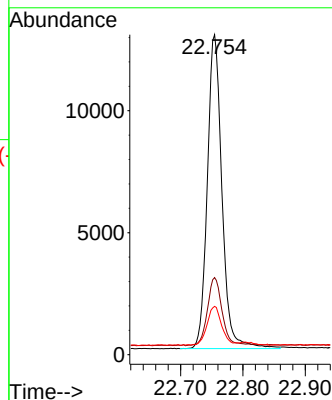
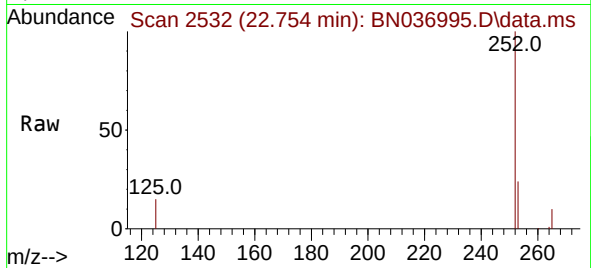




#37
Benzo(b)fluoranthene
Concen: 0.918 ng
RT: 22.754 min Scan# 2532
Delta R.T. -0.000 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

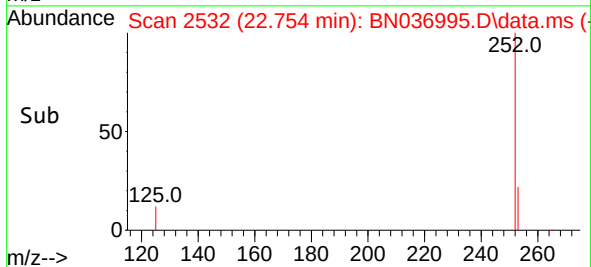
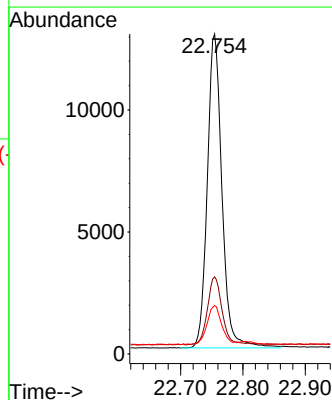
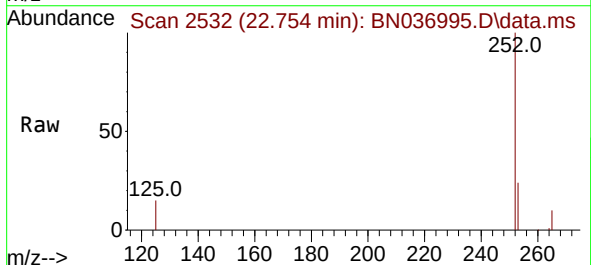
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-BNA-SOILD

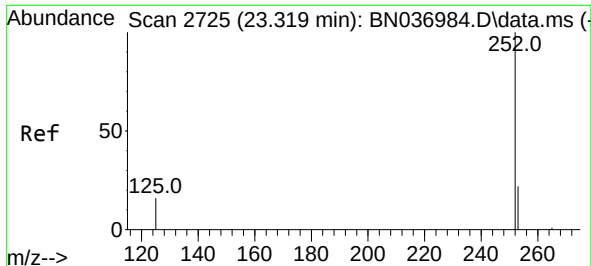
Tgt Ion:252	Resp:	21045
Ion Ratio	Lower	Upper
252	100	
253	24.1	21.9 32.9
125	15.1	13.8 20.8



#38
Benzo(k)fluoranthene
Concen: 0.924 ng
RT: 22.754 min Scan# 2532
Delta R.T. -0.041 min
Lab File: BN036995.D
Acq: 13 May 2025 14:20

Tgt Ion:252	Resp:	21045
Ion Ratio	Lower	Upper
252	100	
253	24.1	22.0 33.0
125	15.1	13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.625 ng

RT: 23.316 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036995.D

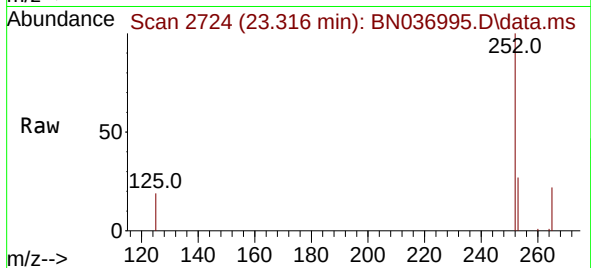
Acq: 13 May 2025 14:20

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-BNA-SOILD



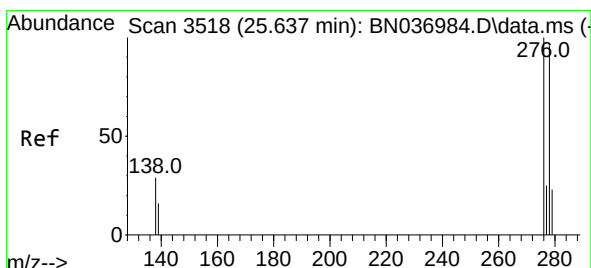
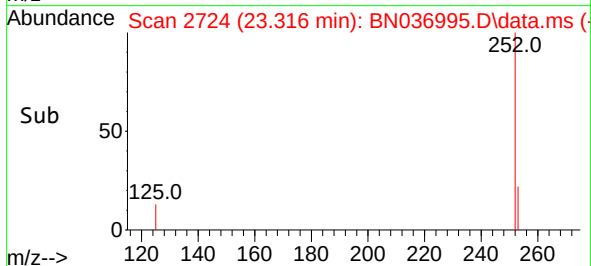
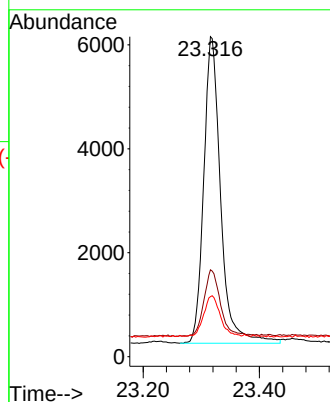
Tgt Ion:252 Resp: 11888

Ion Ratio Lower Upper

252 100

253 27.1 24.8 37.2

125 18.8 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.768 ng

RT: 25.637 min Scan# 3518

Delta R.T. -0.000 min

Lab File: BN036995.D

Acq: 13 May 2025 14:20

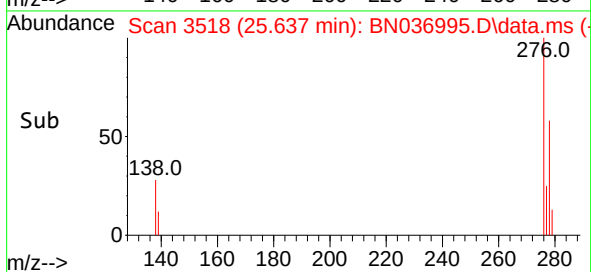
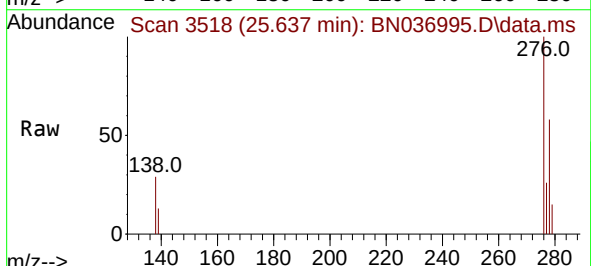
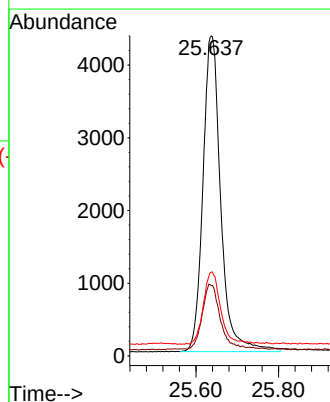
Tgt Ion:278 Resp: 13022

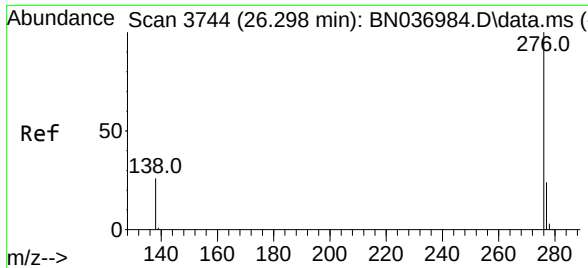
Ion Ratio Lower Upper

278 100

139 21.9 18.1 27.1

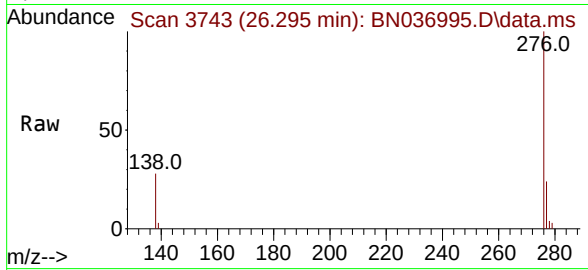
279 26.3 25.3 37.9





#41
 Benzo(g,h,i)perylene
 Concen: 0.847 ng
 RT: 26.295 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: BN036995.D
 Acq: 13 May 2025 14:20

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-BNA-SOILD



Tgt Ion:	276	Resp:	15910
Ion	Ratio	Lower	Upper
276	100		
277	24.4	21.2	31.8
138	28.2	22.6	33.8

