Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN090925\
Data File : BN037670.D
Acq On : 09 Sep 2025 18:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 10 01:51:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 10 01:49:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.847	152	5504	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	15317	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	7946	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	15060	0.400	ng	#-0.01
29) Chrysene-d12	21.420	240	13926	0.400	ng	0.00
35) Perylene-d12	23.750	264	14493	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.406	112	10588	0.751	ng	0.00
5) Phenol-d6	6.988	99	13310	0.752	ng	0.00
8) Nitrobenzene-d5	8.993	82	6833	0.724	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	15541	0.722	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1600	0.724	ng	0.00
15) 2-Fluorobiphenyl	13.126	172	23577	0.754	ng	0.00
27) Fluoranthene-d10	19.271	212	28965	0.745	ng	0.00
31) Terphenyl-d14	19.870	244	22258	0.758	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	4670	0.782	ng	99
3) n-Nitrosodimethylamine	3.608	42	5771	0.767	ng	# 98
6) bis(2-Chloroethyl)ether	7.262	93	11417	0.762	ng	99
9) Naphthalene	10.701	128	31391	0.756	ng	99
10) Hexachlorobutadiene	11.000	225	5535	0.753	ng	# 98
12) 2-Methylnaphthalene	12.319	142	20095	0.748	ng	99
16) Acenaphthylene	14.217	152	27648	0.744	ng	100
17) Acenaphthene	14.559	154	17867	0.750	ng	100
18) Fluorene	15.547	166	22104	0.759	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	593	0.707	ng	# 51
21) 4-Bromophenyl-phenylether	16.441	248	7219	0.731	ng	97
22) Hexachlorobenzene	16.553	284	7759	0.744	ng	99
23) Atrazine	16.702	200	4426	0.718	ng	98
24) Pentachlorophenol	16.888	266	2308	0.660	ng	97
25) Phenanthrene	17.285	178	34823	0.757	ng	100
26) Anthracene	17.372	178	32232	0.755	ng	100
28) Fluoranthene	19.299	202	40342	0.780	ng	100
30) Pyrene	19.661	202	40735	0.734	ng	100
32) Benzo(a)anthracene	21.402	228	36773	0.739	ng	100
33) Chrysene	21.456	228	38070	0.755	ng	99
34) Bis(2-ethylhexyl)phtha...	21.358	149	9299	0.673	ng	99
36) Indeno(1,2,3-cd)pyrene	26.145	276	41104	0.748	ng	100
37) Benzo(b)fluoranthene	23.046	252	39531	0.740	ng	97
38) Benzo(k)fluoranthene	23.092	252	40170	0.764	ng	96
39) Benzo(a)pyrene	23.648	252	33087	0.744	ng	96
40) Dibenzo(a,h)anthracene	26.168	278	31410	0.760	ng	94
41) Benzo(g,h,i)perylene	26.867	276	37203	0.747	ng	98

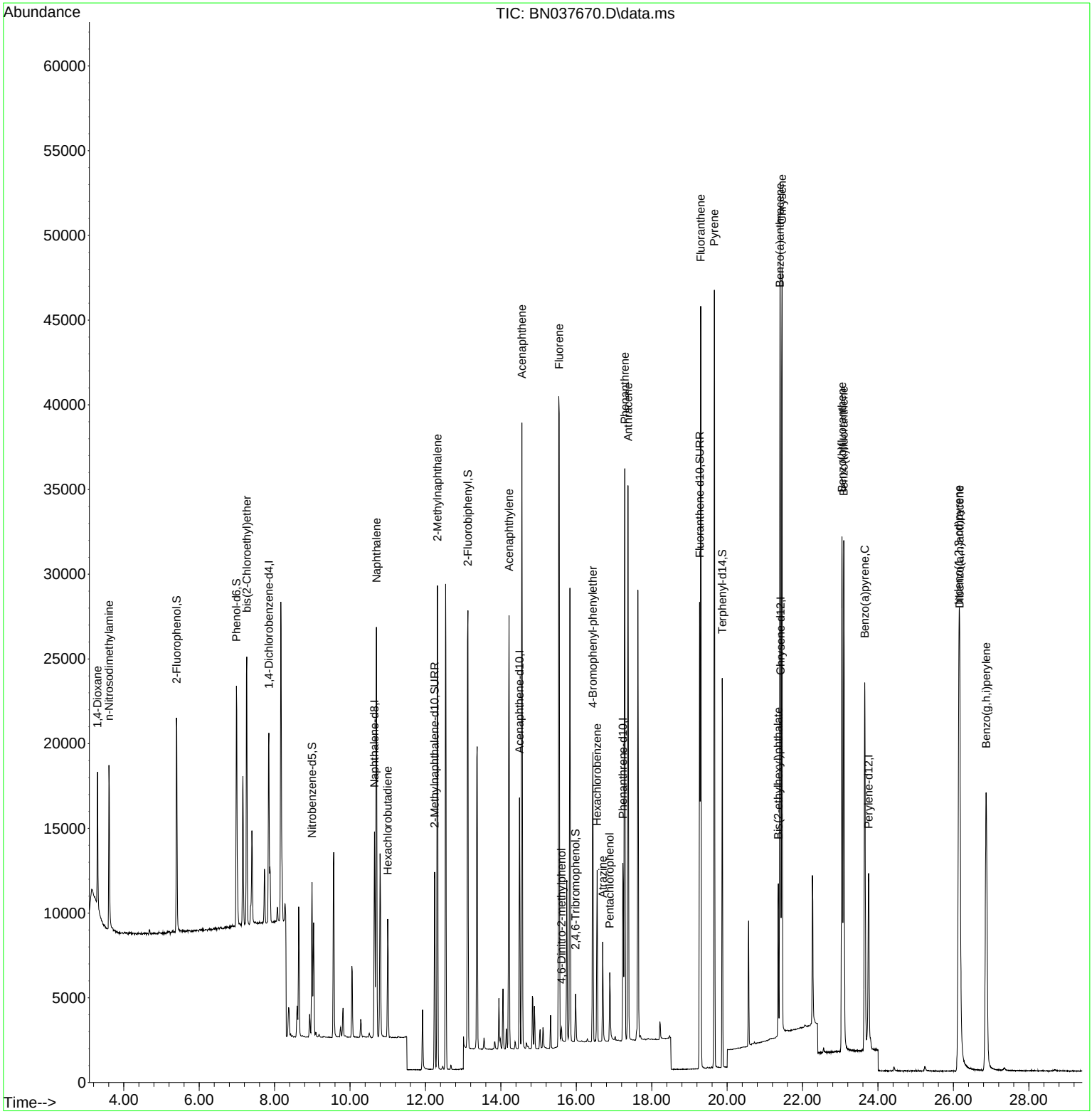
(#) = qualifier out of range (m) = manual integration (+) = signals summed

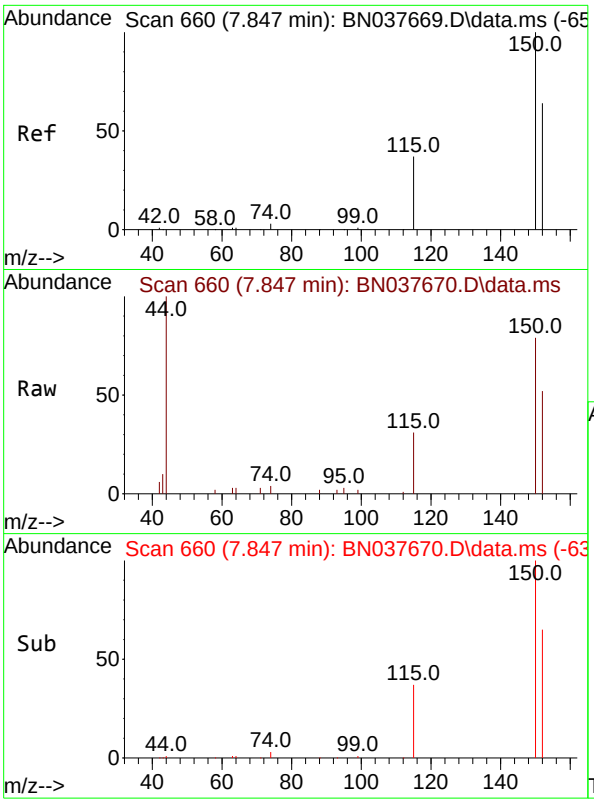
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN090925\
Data File : BN037670.D
Acq On : 09 Sep 2025 18:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 10 01:51:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 10 01:49:31 2025
Response via : Initial Calibration



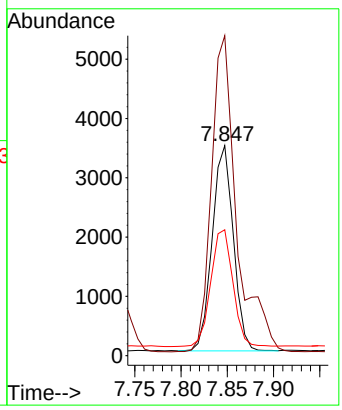


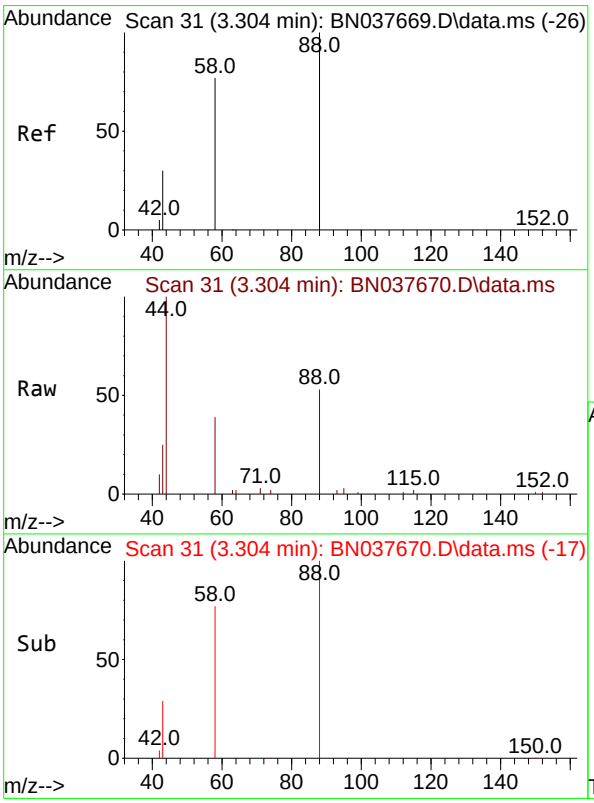
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5504

Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.2	184.8
115	60.0	49.0	73.4

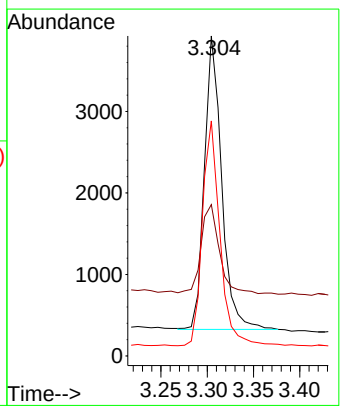


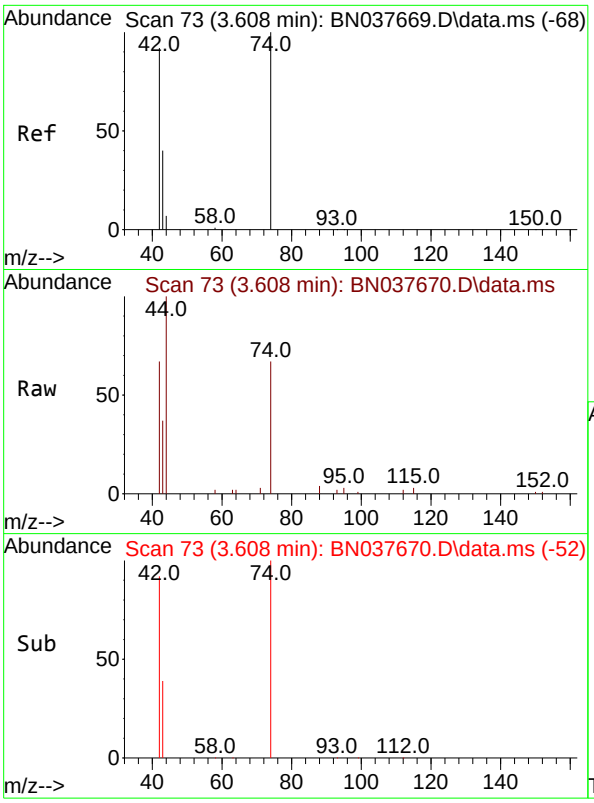


#2
1,4-Dioxane
Concen: 0.782 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion: 88 Resp: 4670

Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.8	40.2
58	77.9	62.6	93.8



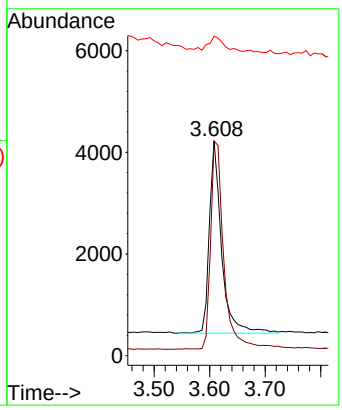


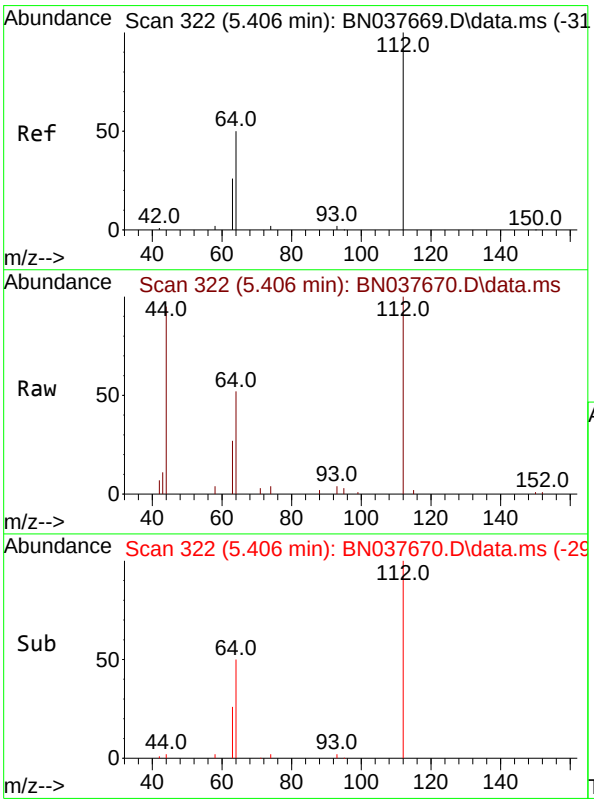
#3
n-Nitrosodimethylamine
Concen: 0.767 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 5771

Ion	Ratio	Lower	Upper
42	100		
74	117.1	94.9	142.3
44	9.9	10.6	16.0#

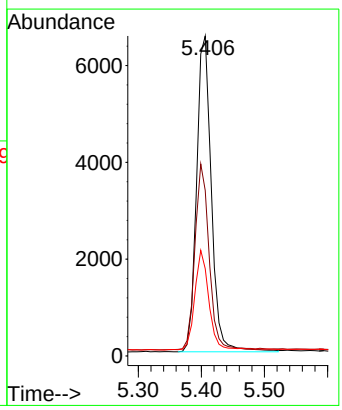


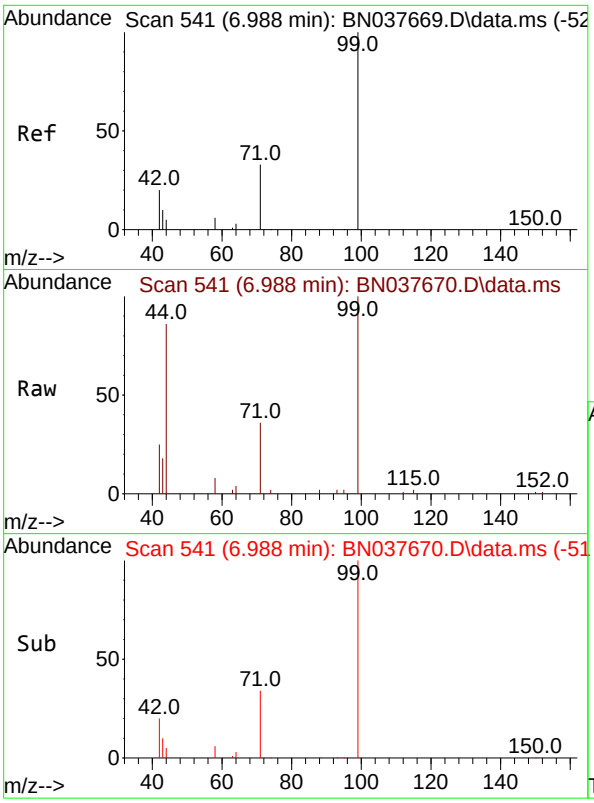


#4
2-Fluorophenol
Concen: 0.751 ng
RT: 5.406 min Scan# 322
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:112 Resp: 10588

Ion	Ratio	Lower	Upper
112	100		
64	56.8	45.4	68.2
63	30.2	23.7	35.5



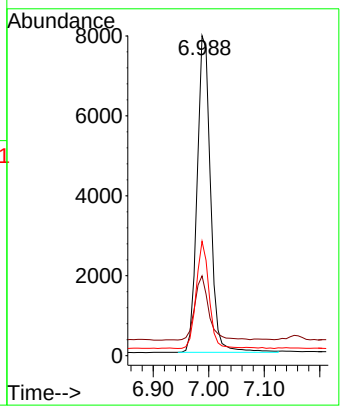


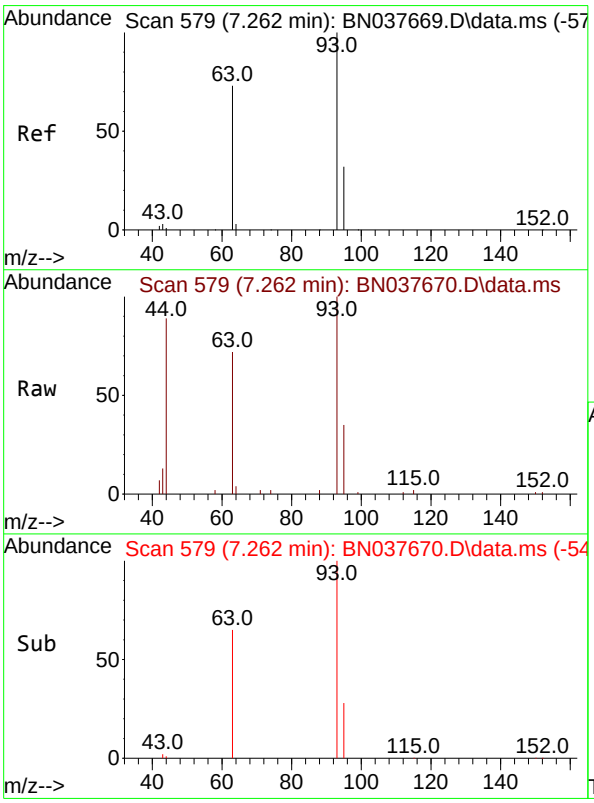
#5
Phenol-d6
Concen: 0.752 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 13310

Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.7	26.5
71	32.2	26.7	40.1

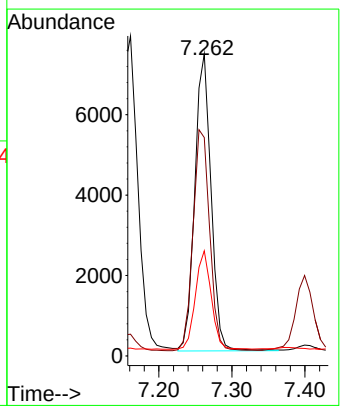


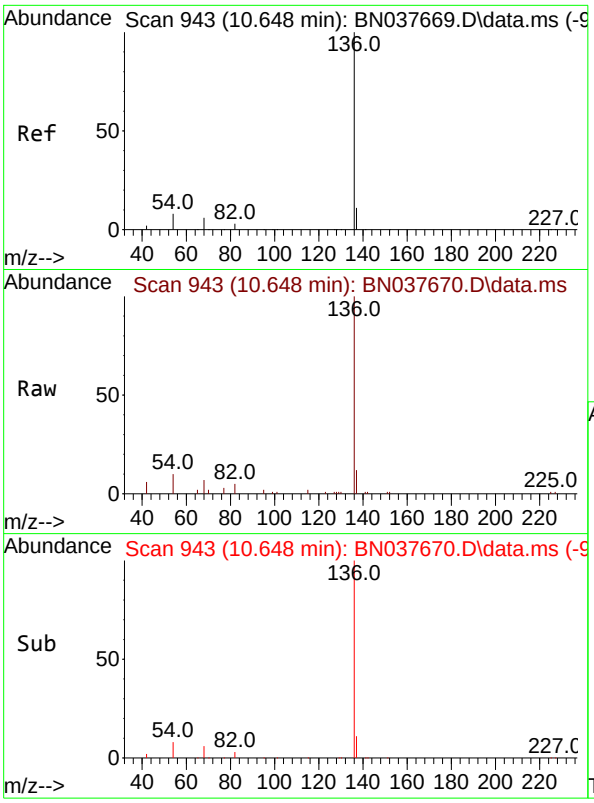


#6
bis(2-Chloroethyl)ether
Concen: 0.762 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion: 93 Resp: 11417

Ion	Ratio	Lower	Upper
93	100		
63	76.3	62.1	93.1
95	32.2	26.0	39.0



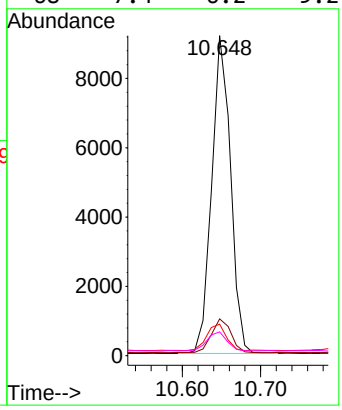


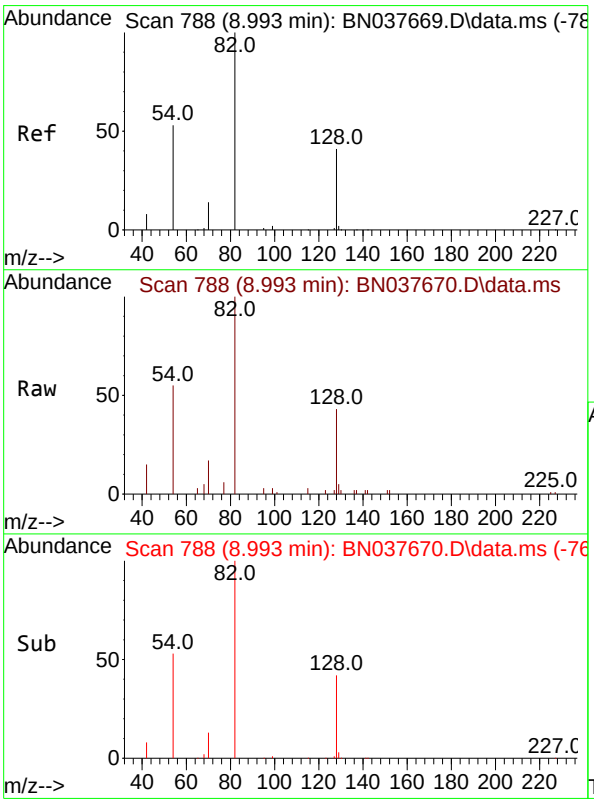
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 15317

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.3	13.9
54	9.8	8.1	12.1
68	7.4	6.2	9.2

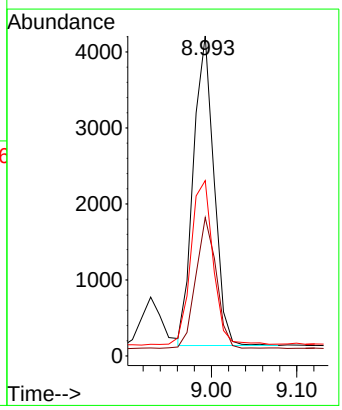


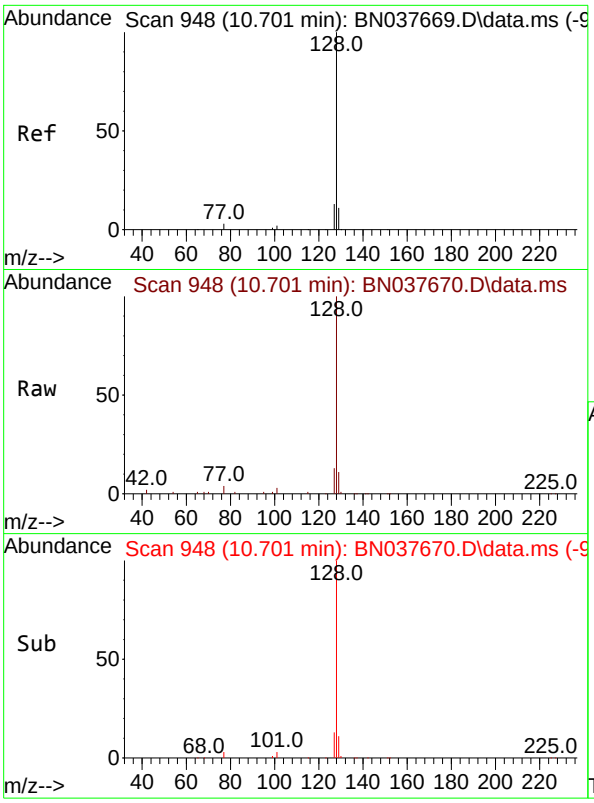


#8
Nitrobenzene-d5
Concen: 0.724 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion: 82 Resp: 6833

Ion	Ratio	Lower	Upper
82	100		
128	43.3	34.3	51.5
54	54.8	45.5	68.3



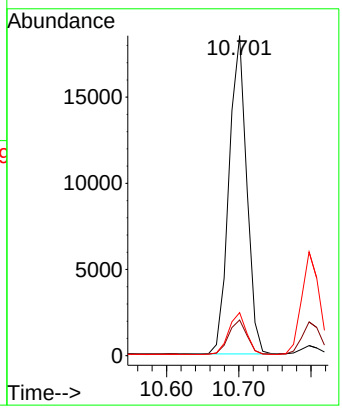


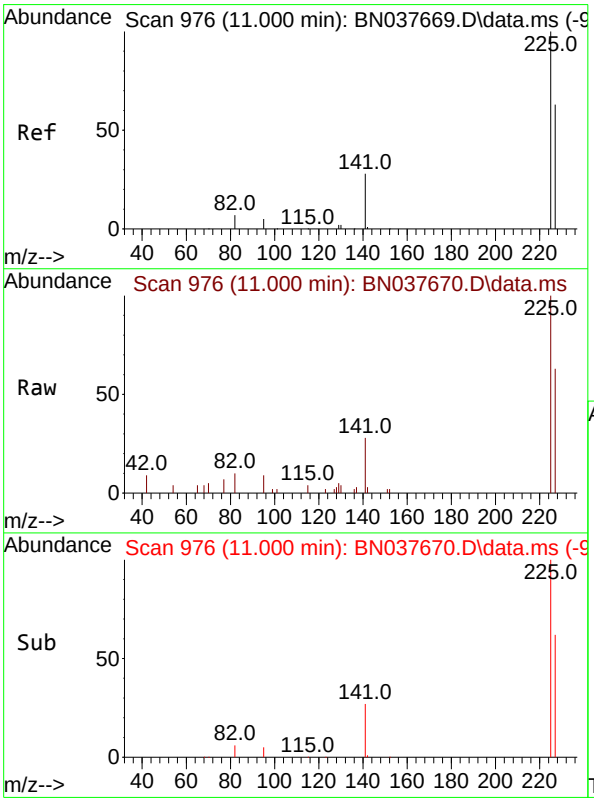
#9
Naphthalene
Concen: 0.756 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 31391

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.3	13.9
127	13.4	10.7	16.1

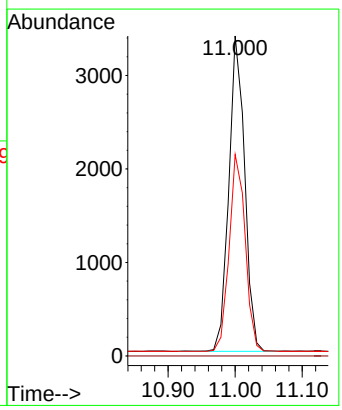


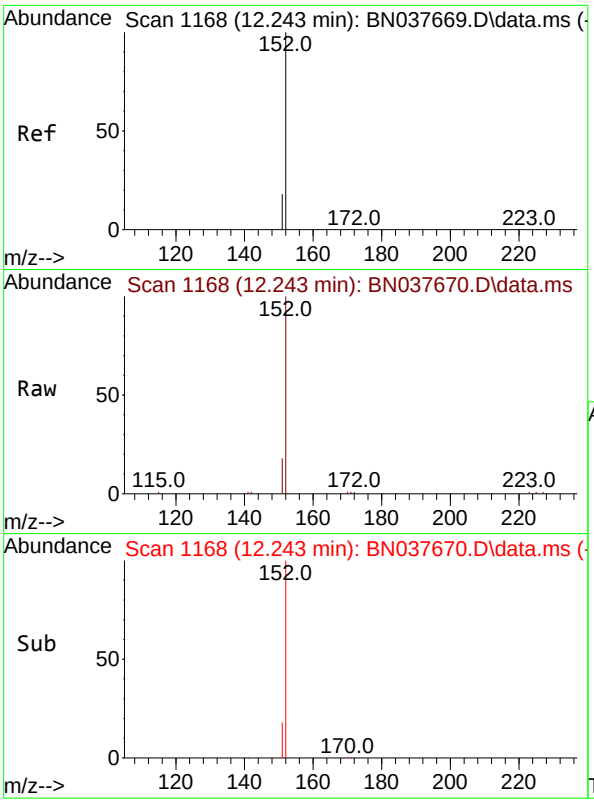


#10
Hexachlorobutadiene
Concen: 0.753 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:225 Resp: 5535

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.7	77.5



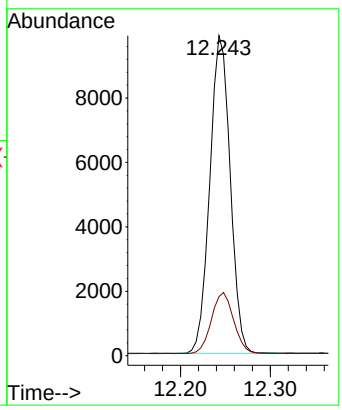


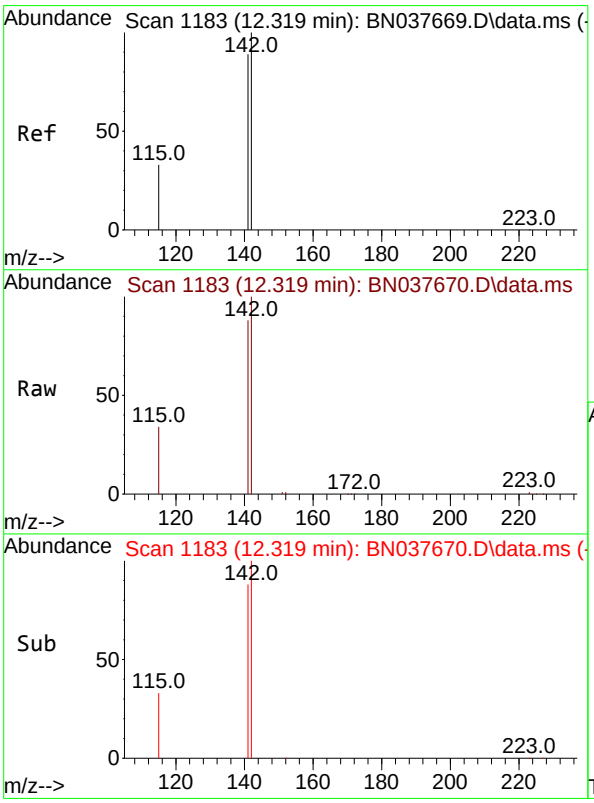
#11
2-Methylnaphthalene-d10
Concen: 0.722 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 15541

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

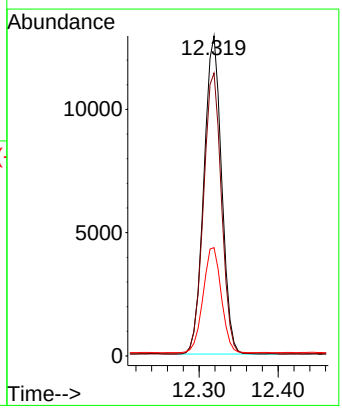


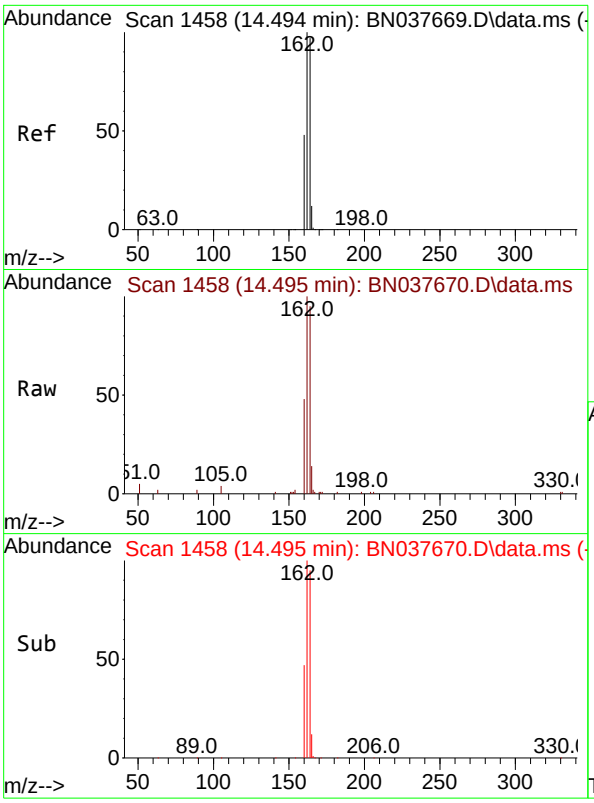


#12
2-Methylnaphthalene
Concen: 0.748 ng
RT: 12.319 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:142 Resp: 20095

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.5	107.3
115	33.9	28.0	42.0



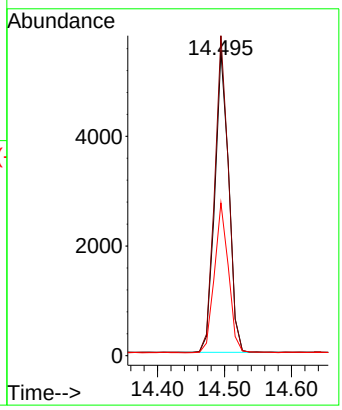


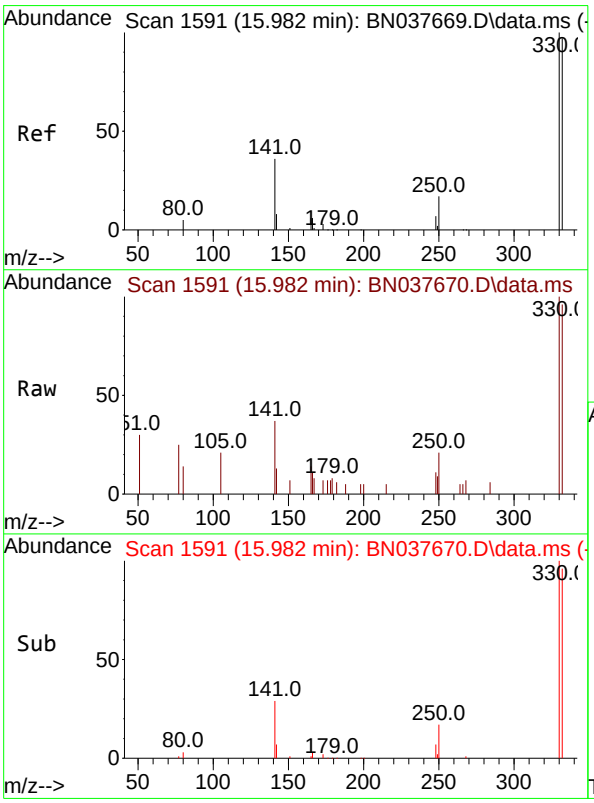
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 7946

Ion	Ratio	Lower	Upper
164	100		
162	105.2	82.6	123.8
160	50.2	39.7	59.5

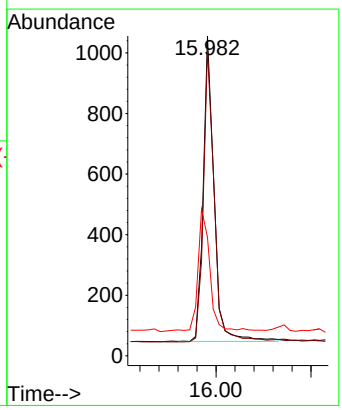


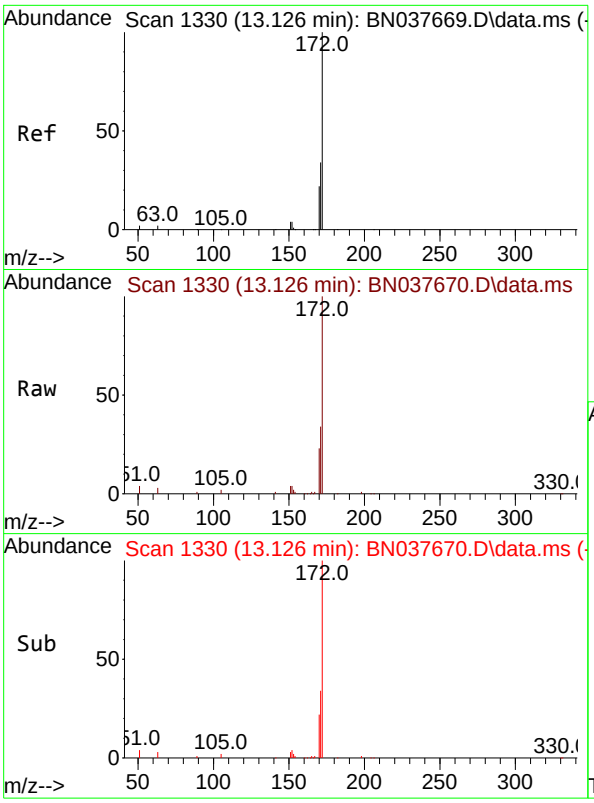


#14
2,4,6-Tribromophenol
Concen: 0.724 ng
RT: 15.982 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:330 Resp: 1600

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.8	118.2
141	42.6	37.8	56.6



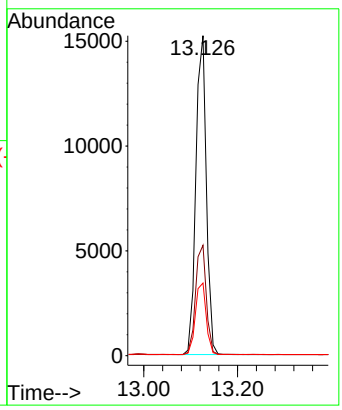


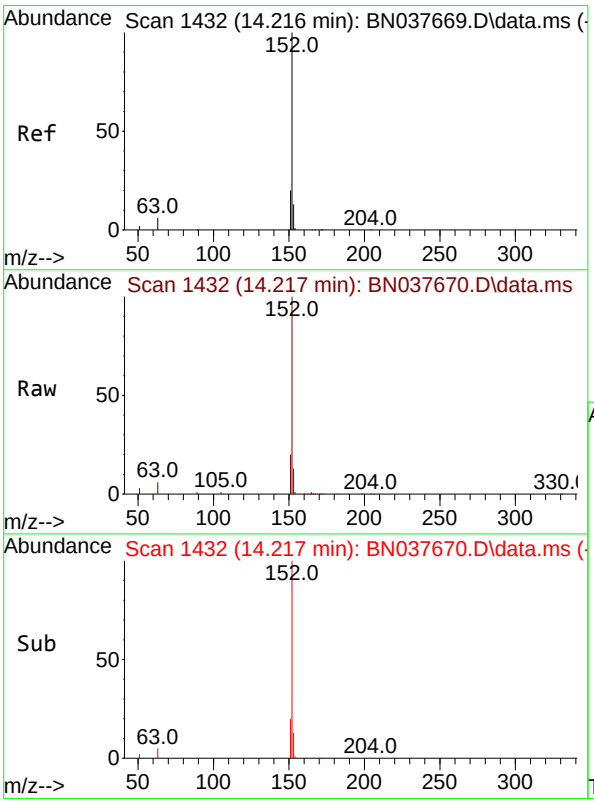
#15
2-Fluorobiphenyl
Concen: 0.754 ng
RT: 13.126 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 23577

Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.8	41.8
170	22.7	18.4	27.6

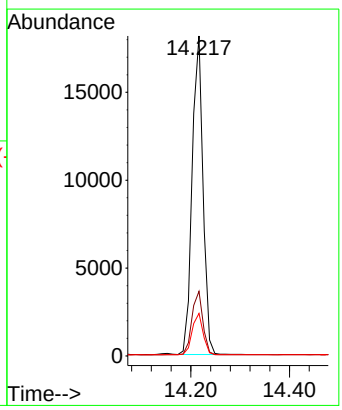


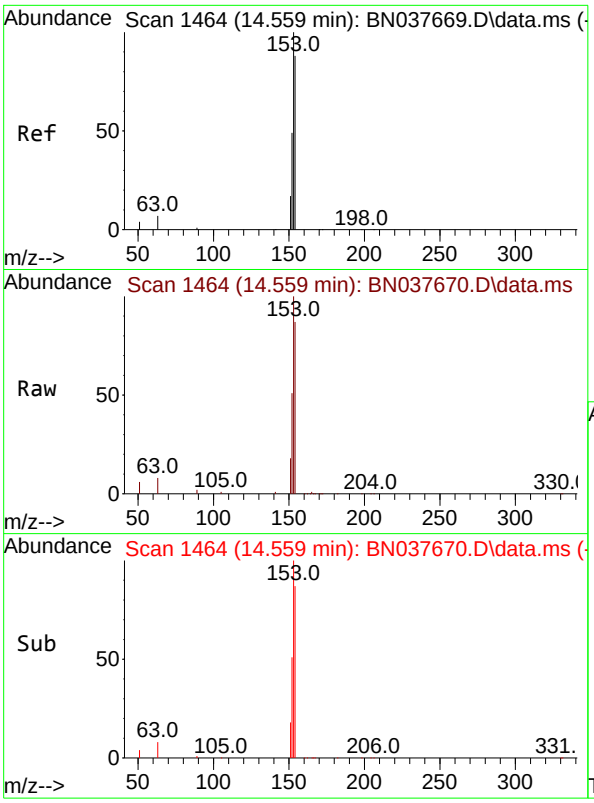


#16
Acenaphthylene
Concen: 0.744 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:152 Resp: 27648

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.2	10.4	15.6



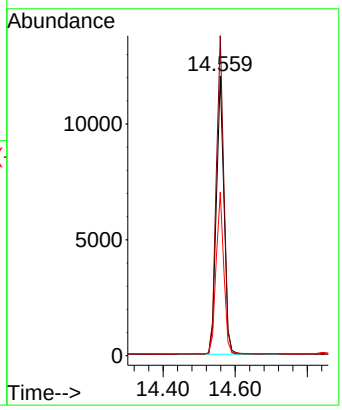


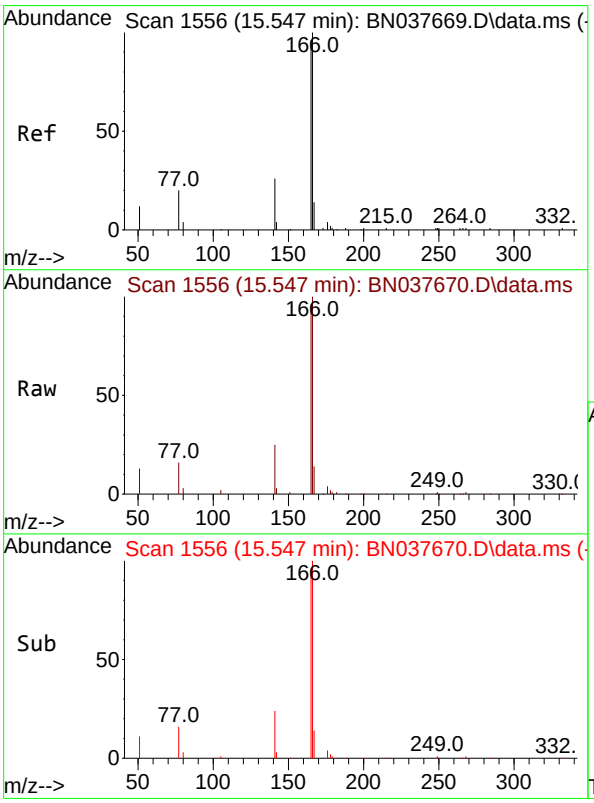
#17
Acenaphthene
Concen: 0.750 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 17867

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.7	136.1
152	58.1	46.4	69.6

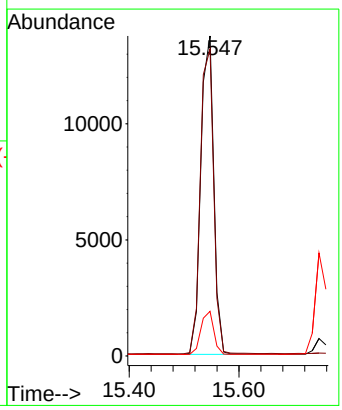


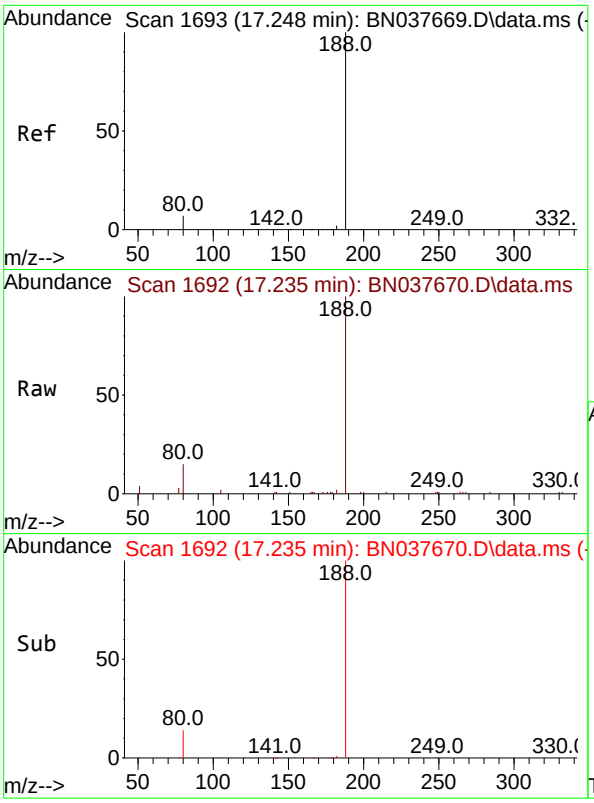


#18
Fluorene
Concen: 0.759 ng
RT: 15.547 min Scan# 1556
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:166 Resp: 22104

Ion	Ratio	Lower	Upper
166	100		
165	98.7	77.4	116.0
167	13.5	10.6	15.8



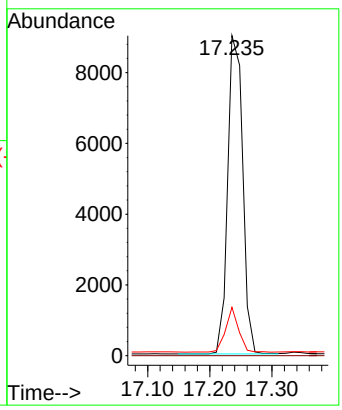


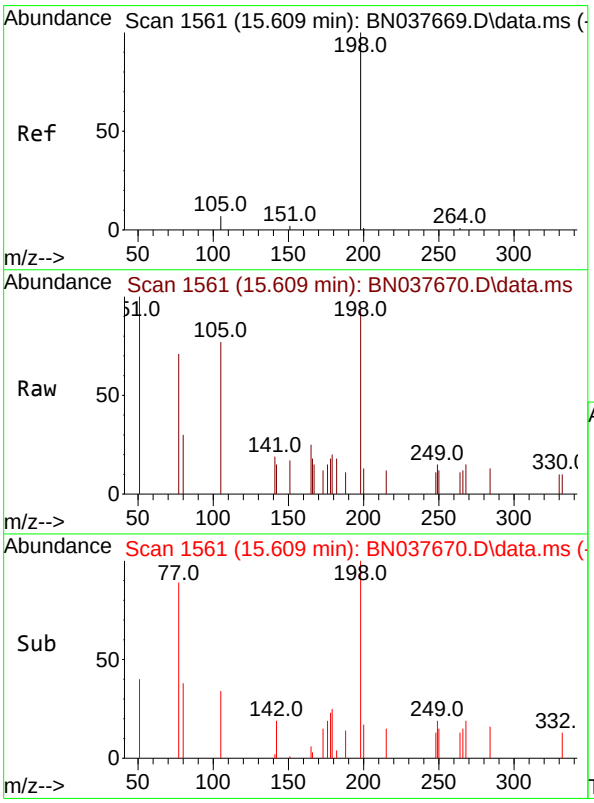
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 15060

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.1	6.3	9.5#

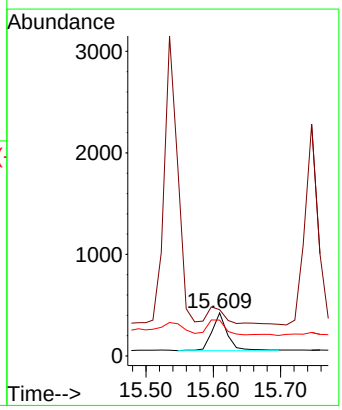


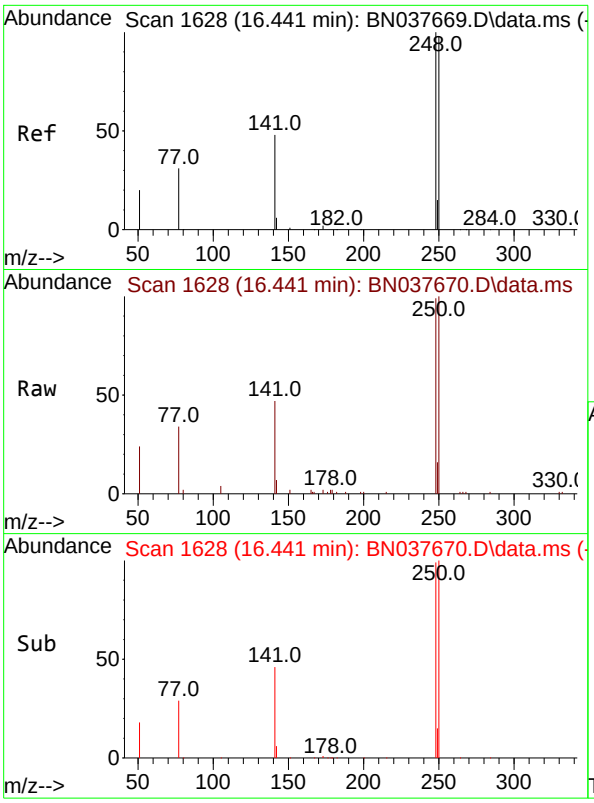


#20
4,6-Dinitro-2-methylphenol
Concen: 0.707 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:198 Resp: 593

Ion	Ratio	Lower	Upper
198	100		
51	107.3	144.8	217.2#
105	83.0	110.7	166.1#



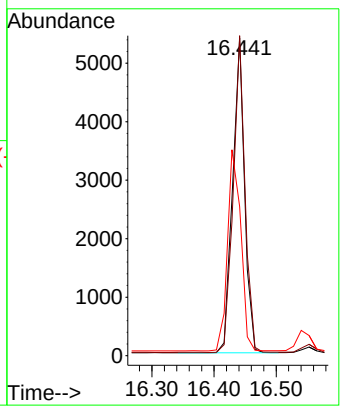


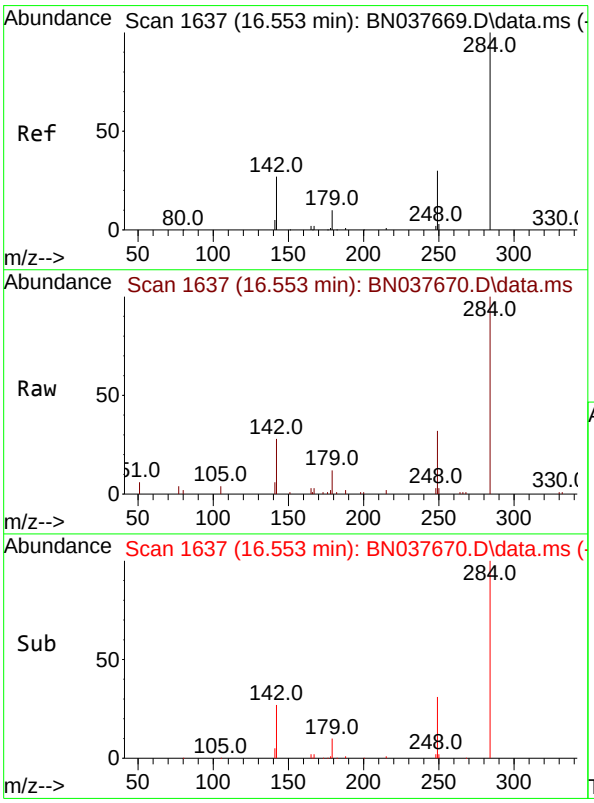
#21
4-Bromophenyl-phenylether
Concen: 0.731 ng
RT: 16.441 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 7219

Ion	Ratio	Lower	Upper
248	100		
250	100.7	78.7	118.1
141	46.9	40.2	60.4

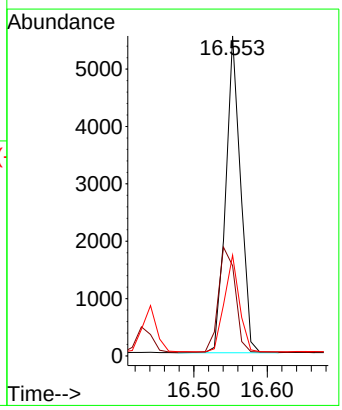


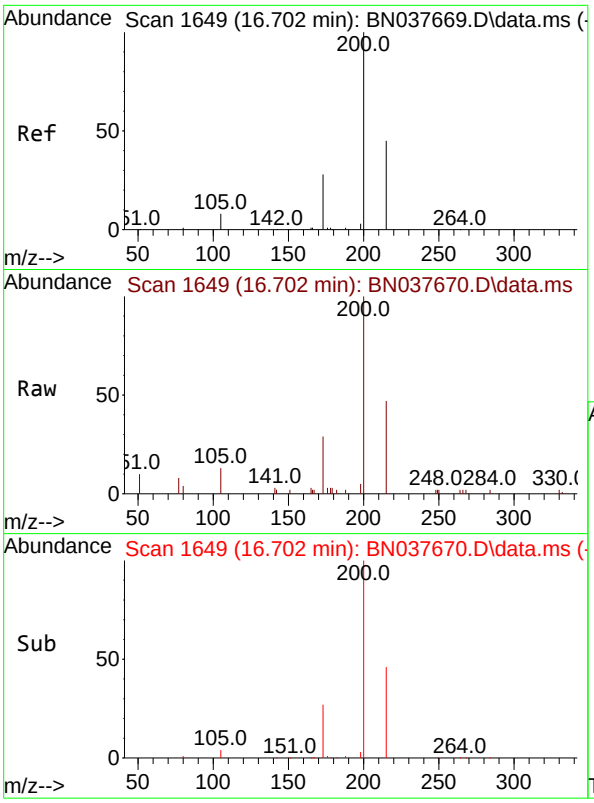


#22
Hexachlorobenzene
Concen: 0.744 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:284 Resp: 7759

Ion	Ratio	Lower	Upper
284	100		
142	37.5	29.4	44.2
249	30.7	24.4	36.6



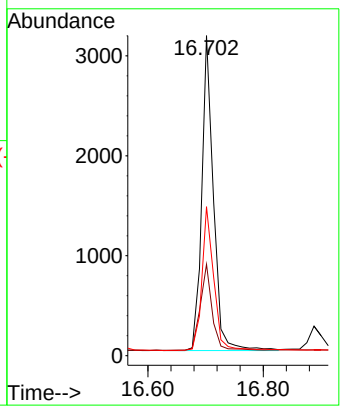


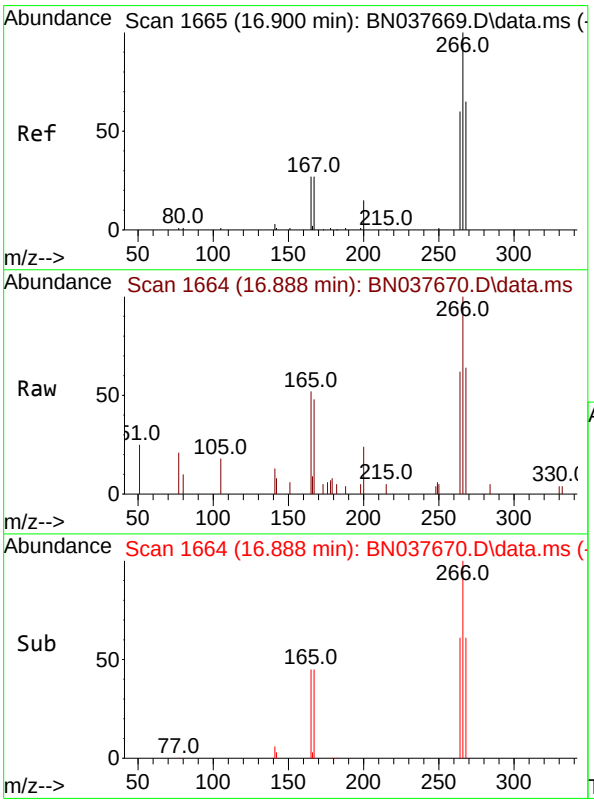
#23
Atrazine
Concen: 0.718 ng
RT: 16.702 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 4426

Ion	Ratio	Lower	Upper
200	100		
173	28.6	24.7	37.1
215	46.6	37.5	56.3

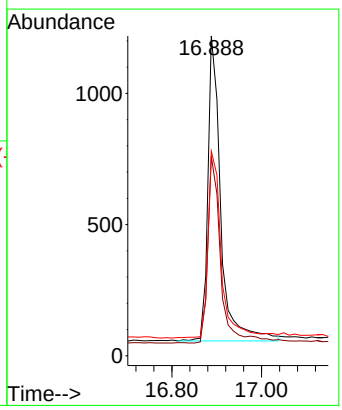


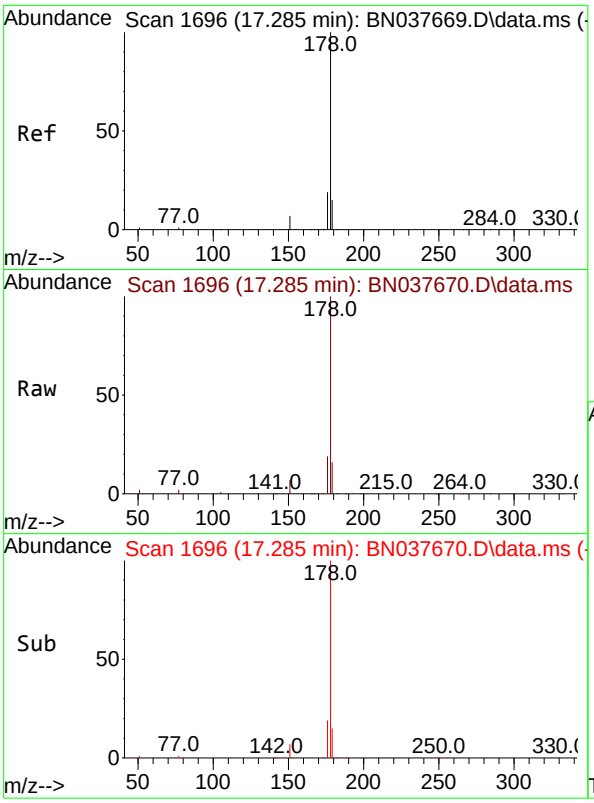


#24
Pentachlorophenol
Concen: 0.660 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.012 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:266 Resp: 2308

Ion	Ratio	Lower	Upper
266	100		
264	60.6	49.7	74.5
268	63.4	48.7	73.1



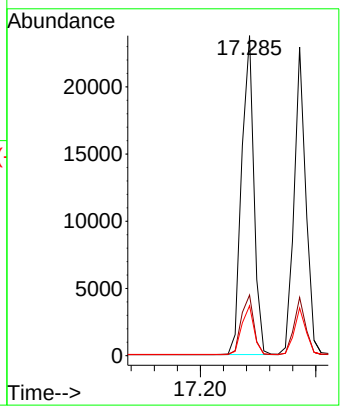


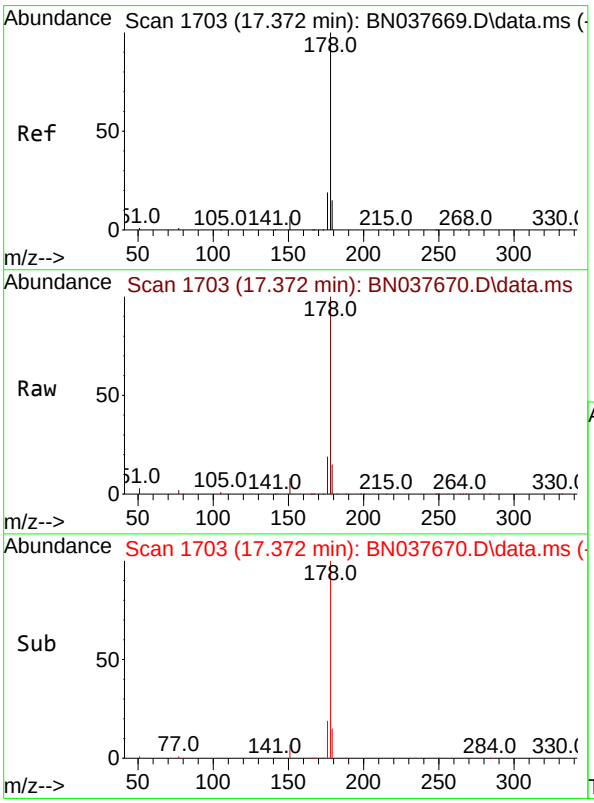
#25
Phenanthrene
Concen: 0.757 ng
RT: 17.285 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 34823

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.3	12.5	18.7

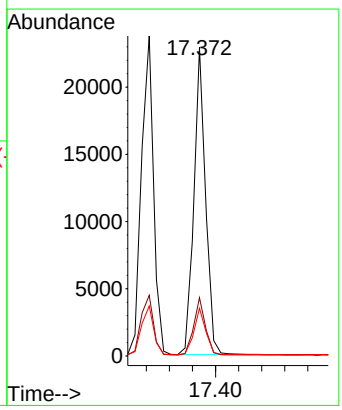


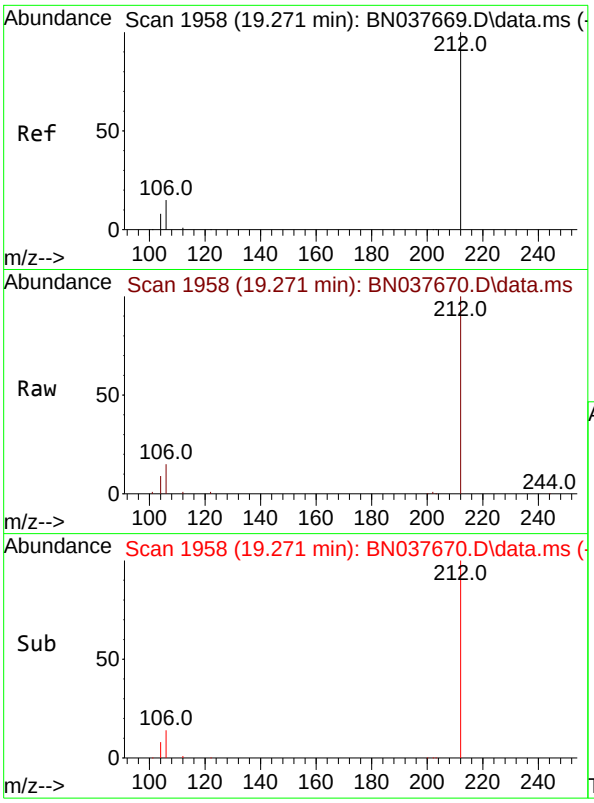


#26
Anthracene
Concen: 0.755 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:178 Resp: 32232

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	15.2	12.0	18.0



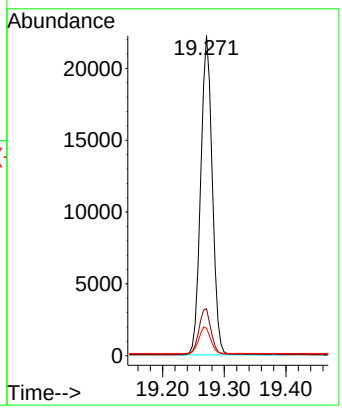


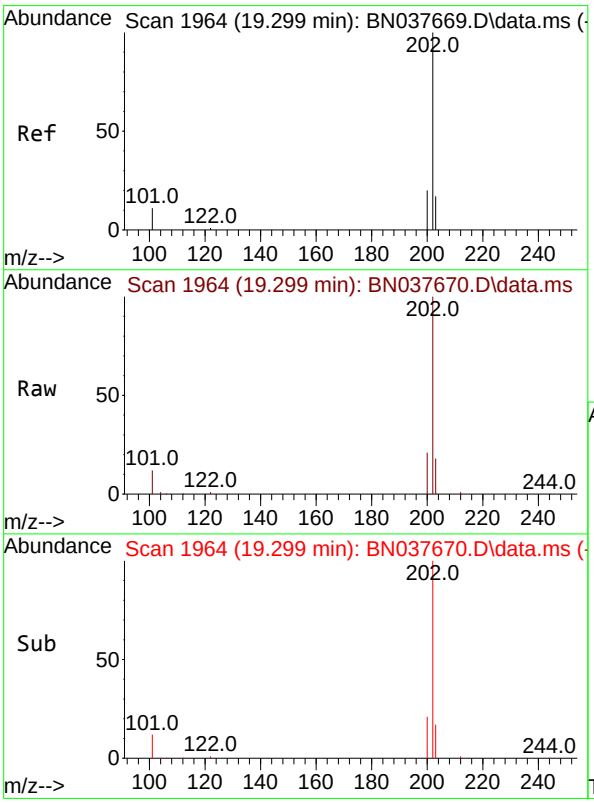
#27
Fluoranthene-d10
Concen: 0.745 ng
RT: 19.271 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 28965

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.5	6.6	10.0

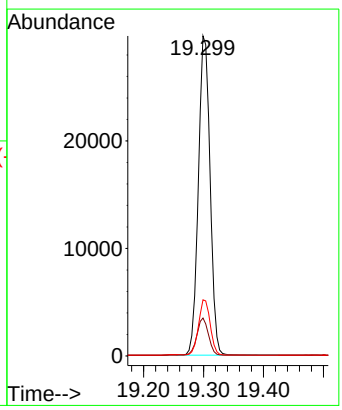


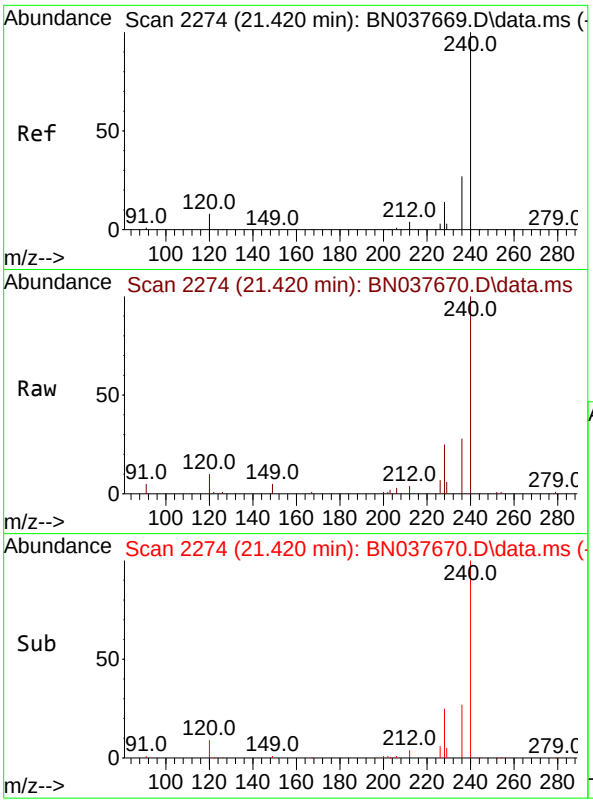


#28
Fluoranthene
Concen: 0.780 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:202 Resp: 40342

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.0	13.6
203	17.3	13.8	20.8



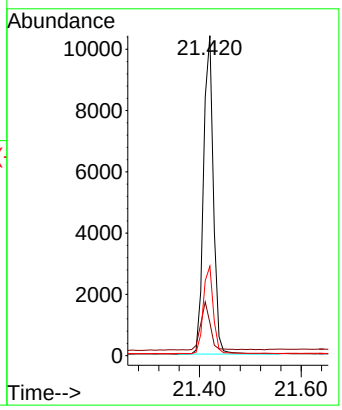


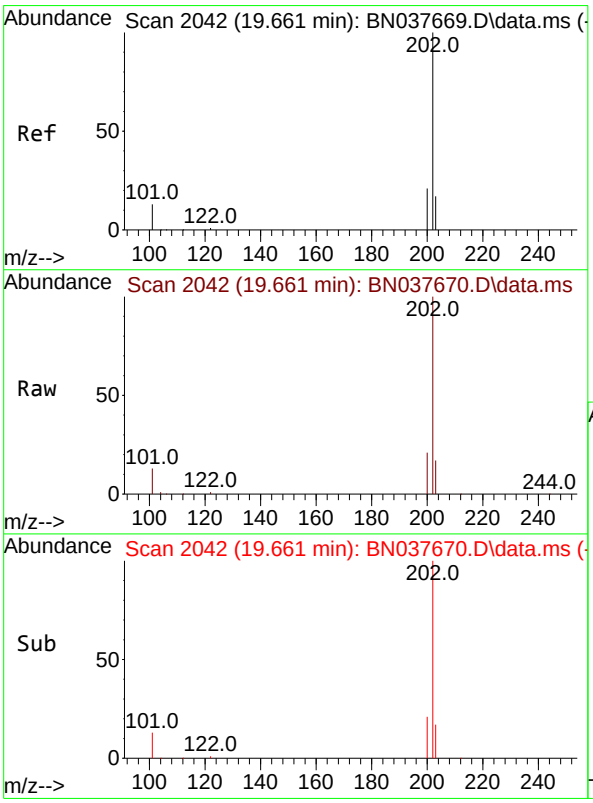
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 13926

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.5	12.7
236	28.0	22.5	33.7

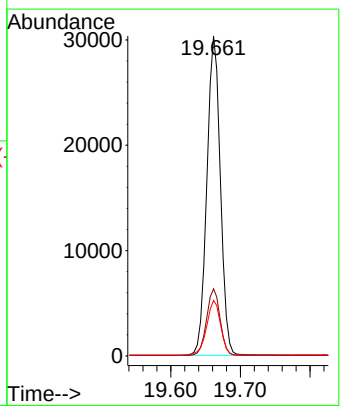


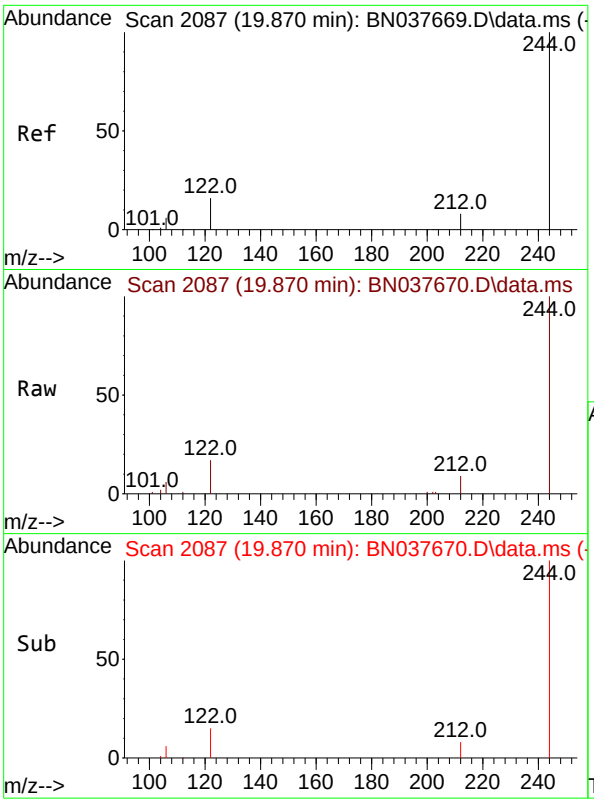


#30
Pyrene
Concen: 0.734 ng
RT: 19.661 min Scan# 2042
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:202 Resp: 40735

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5



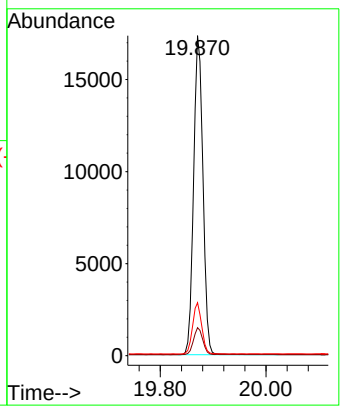


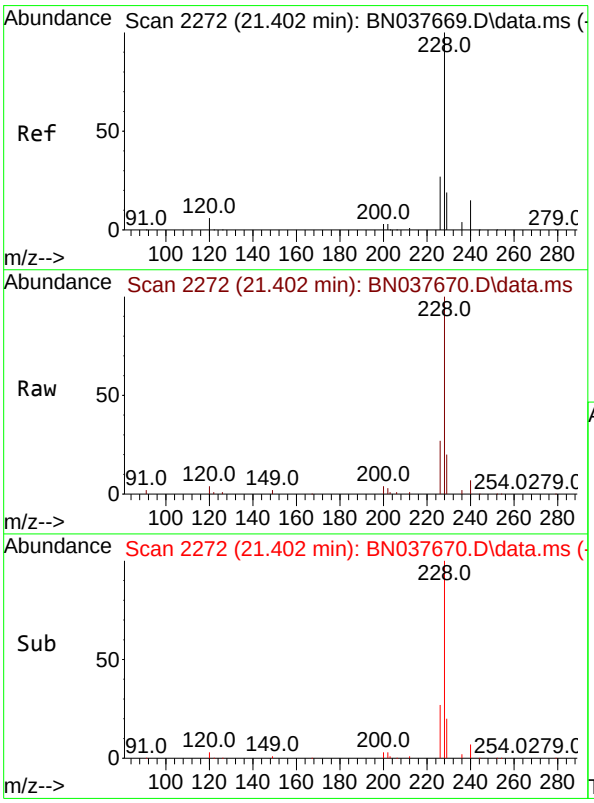
#31
Terphenyl-d14
Concen: 0.758 ng
RT: 19.870 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 22258

Ion	Ratio	Lower	Upper
244	100		
212	8.7	7.0	10.4
122	16.6	13.4	20.2

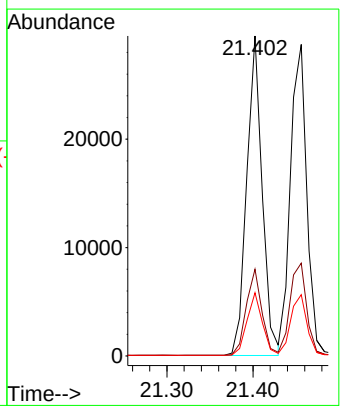


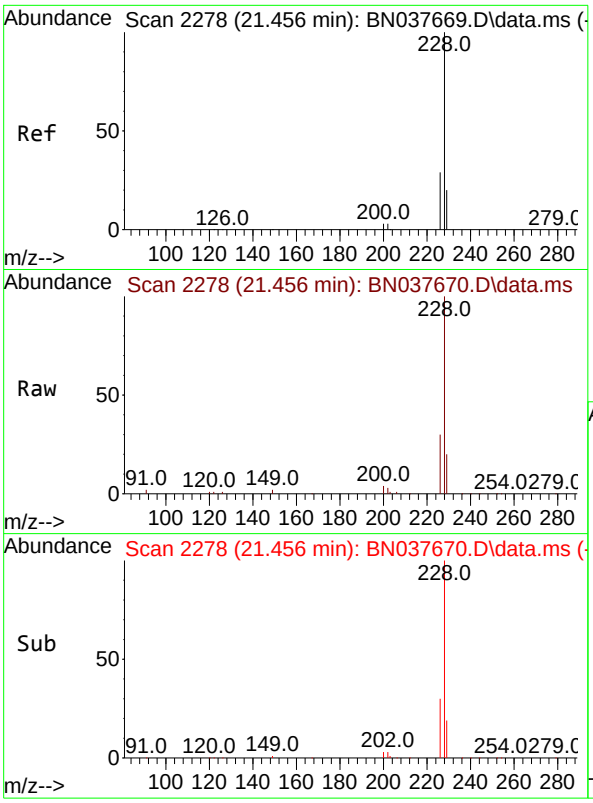


#32
Benzo(a)anthracene
Concen: 0.739 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:228 Resp: 36773

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.6
229	19.7	15.8	23.6



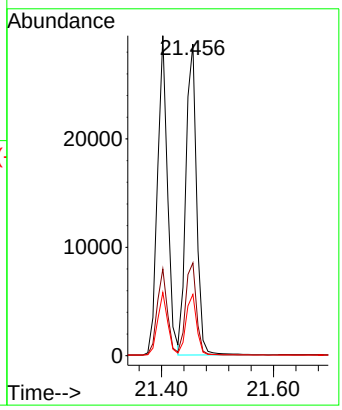


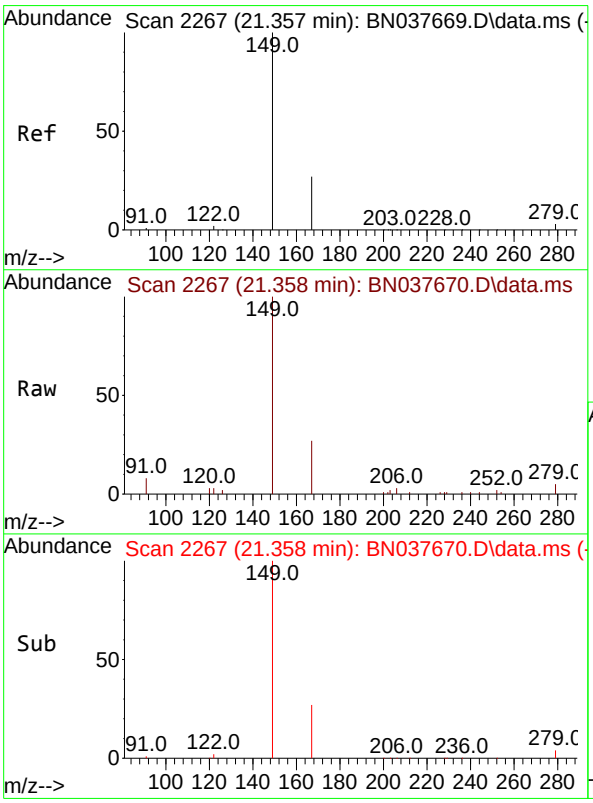
#33
Chrysene
Concen: 0.755 ng
RT: 21.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 38070

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.7	16.1	24.1

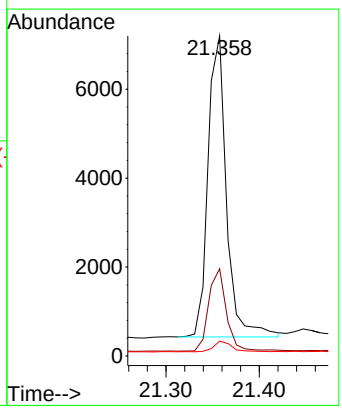


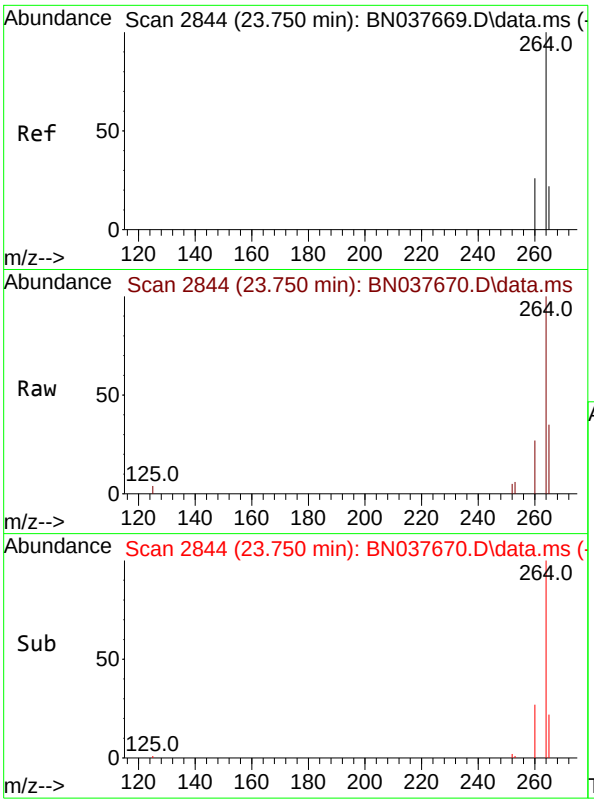


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.673 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:149 Resp: 9299

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.0
279	3.6	2.6	3.8



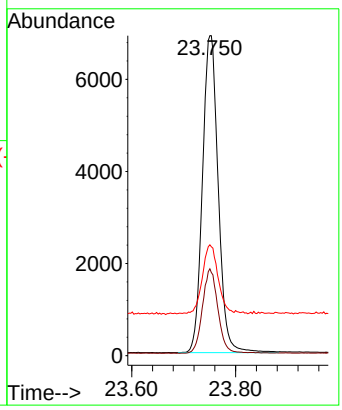


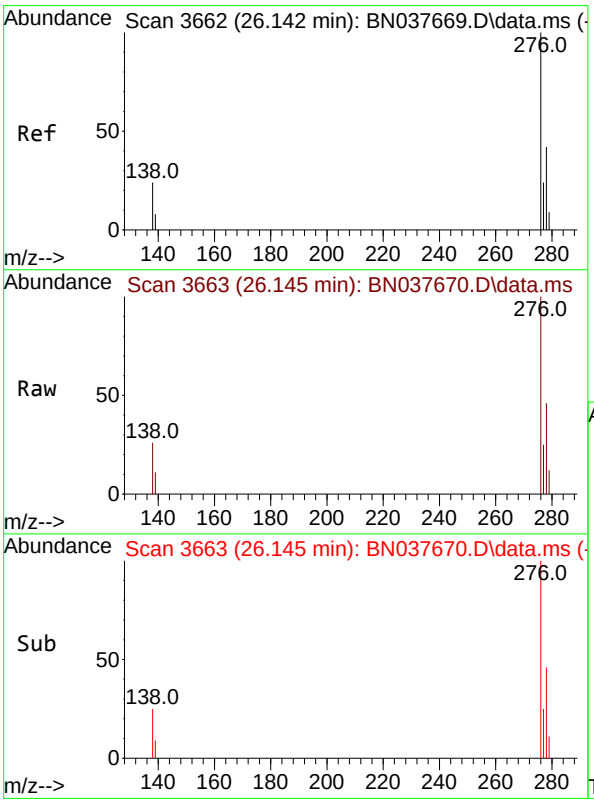
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 14493

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.2	31.8
265	34.7	28.2	42.4

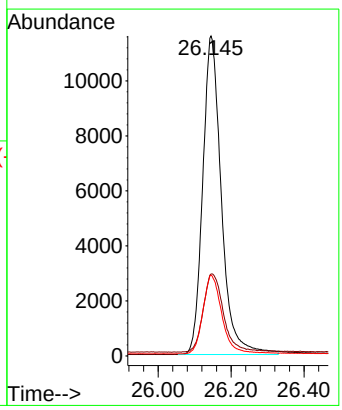


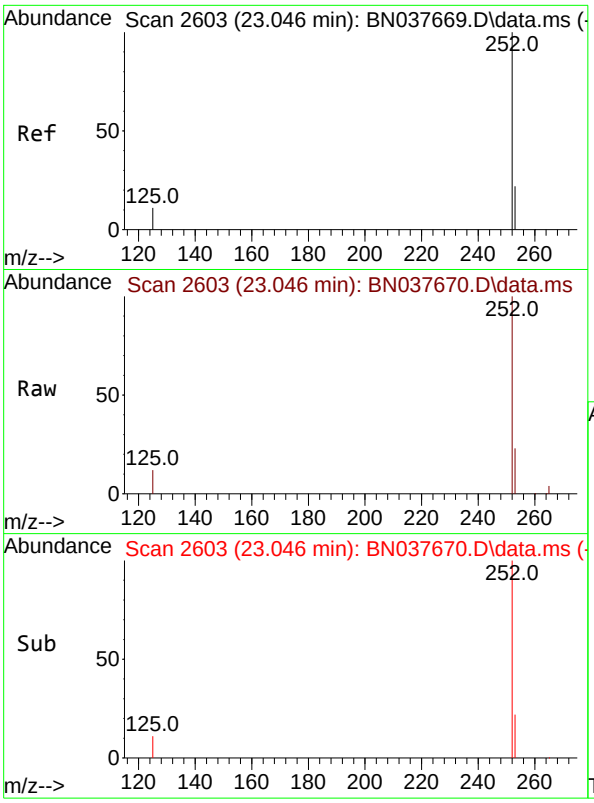


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.748 ng
RT: 26.145 min Scan# 3663
Delta R.T. 0.003 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:276 Resp: 41104

Ion	Ratio	Lower	Upper
276	100		
138	26.7	21.3	31.9
277	25.0	20.1	30.1



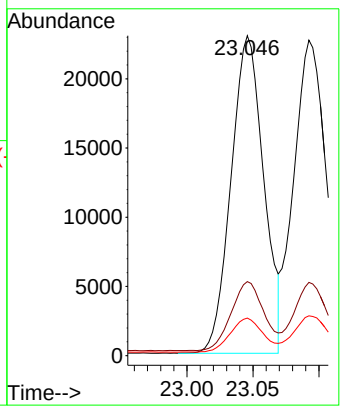


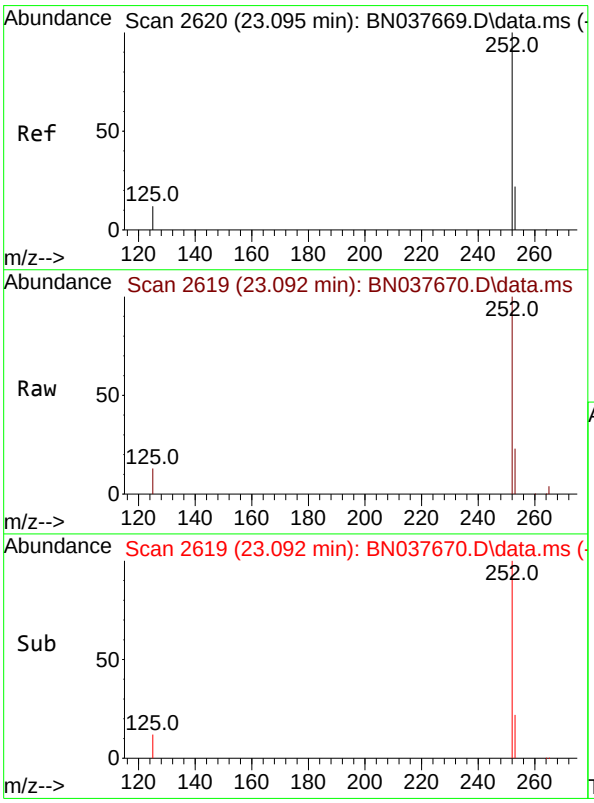
#37
Benzo(b)fluoranthene
Concen: 0.740 ng
RT: 23.046 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 39531

Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.7	29.5
125	11.8	10.2	15.2

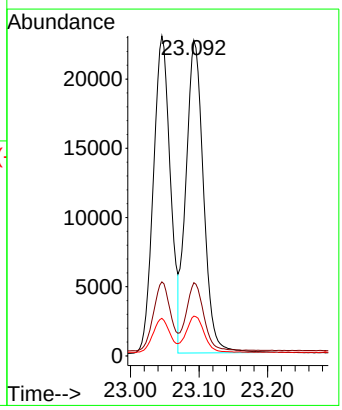


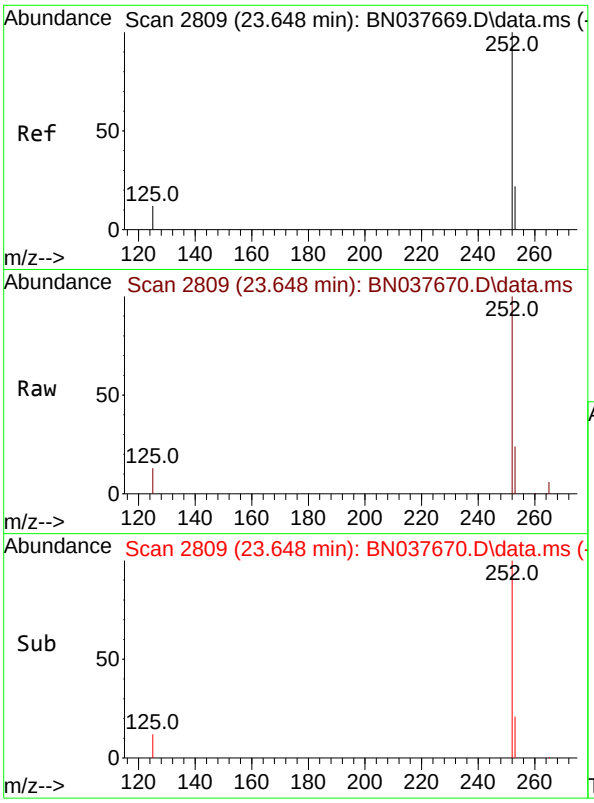


#38
Benzo(k)fluoranthene
Concen: 0.764 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.003 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:252 Resp: 40170

Ion	Ratio	Lower	Upper
252	100		
253	23.2	19.9	29.9
125	12.6	11.4	17.0



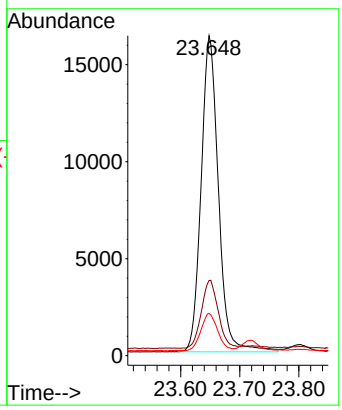


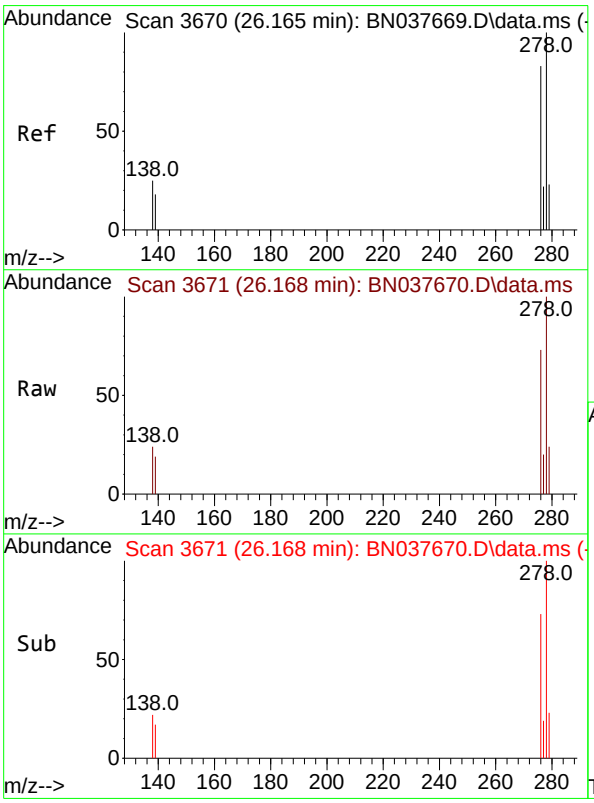
#39
Benzo(a)pyrene
Concen: 0.744 ng
RT: 23.648 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 33087

Ion	Ratio	Lower	Upper
252	100		
253	23.5	20.7	31.1
125	13.2	11.9	17.9

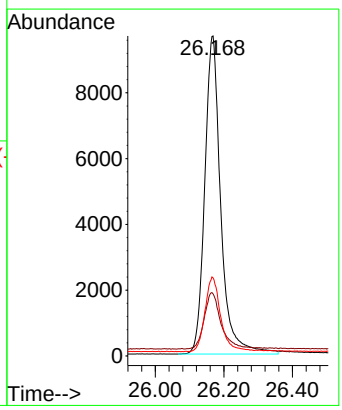


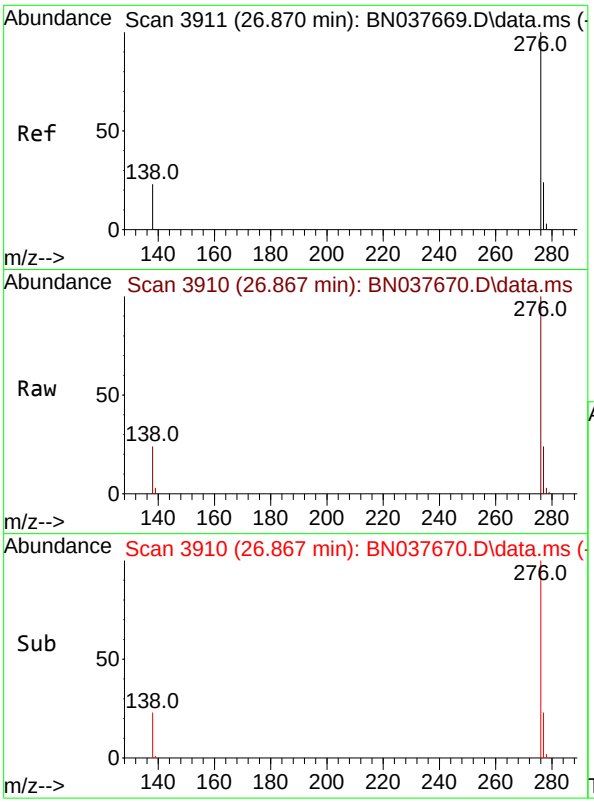


#40
Dibenzo(a,h)anthracene
Concen: 0.760 ng
RT: 26.168 min Scan# 3671
Delta R.T. 0.003 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Tgt Ion:278 Resp: 31410

Ion	Ratio	Lower	Upper
278	100		
139	19.4	19.1	28.7
279	24.4	20.9	31.3





#41
Benzo(g,h,i)perylene
Concen: 0.747 ng
RT: 26.867 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037670.D
Acq: 09 Sep 2025 18:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 37203

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.9	29.9
138	24.3	20.5	30.7