Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100223\
Data File : BN027988.D
Acq On : 02 Oct 2023 15:36
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Oct 02 16:52:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 02 16:50:51 2023
Response via : Initial Calibration

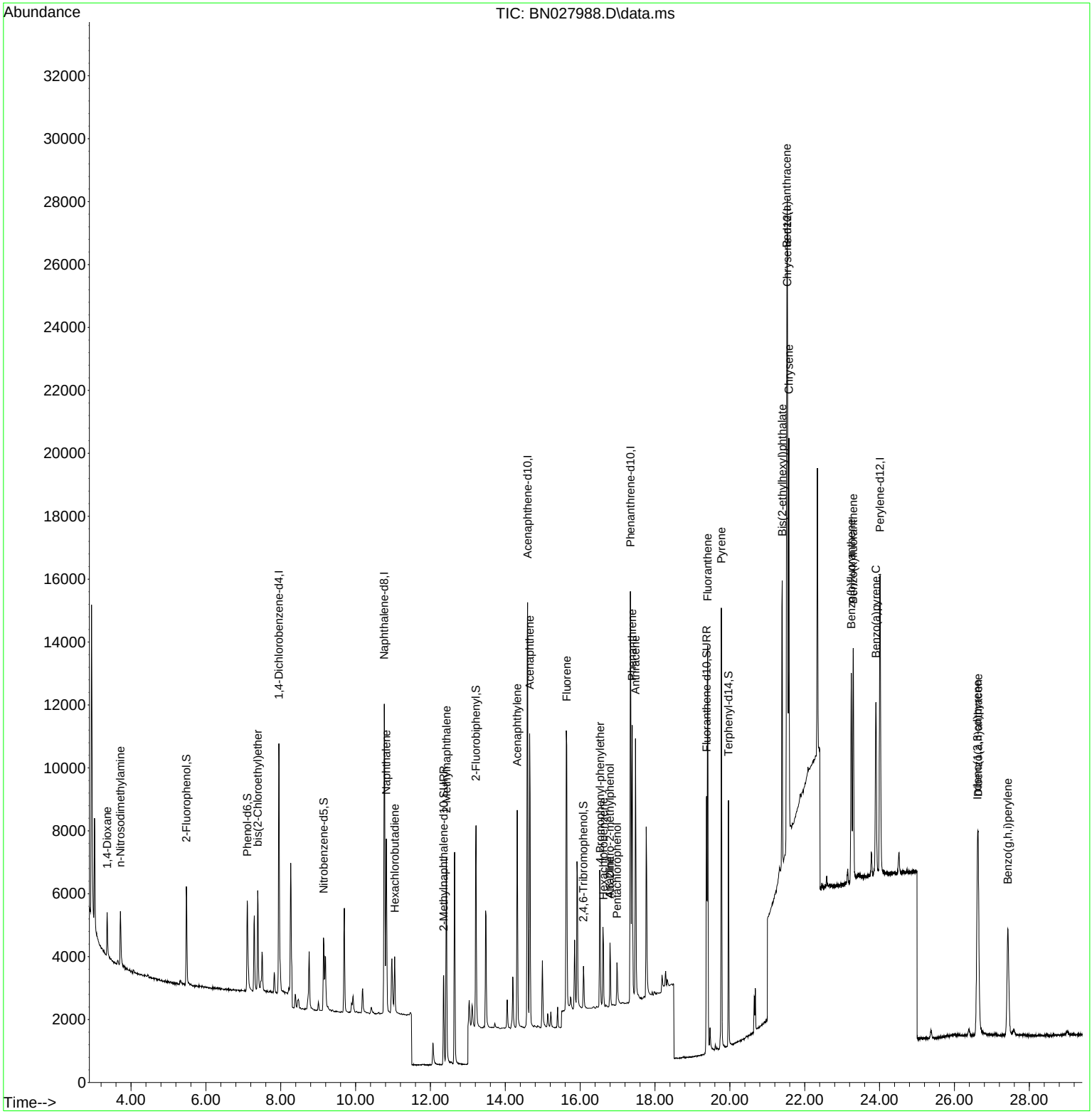
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.950	152	4099	0.400	ng		0.00
7) Naphthalene-d8	10.767	136	14062	0.400	ng		0.00
13) Acenaphthene-d10	14.597	164	8593	0.400	ng		0.00
19) Phenanthrene-d10	17.343	188	19025	0.400	ng		0.00
29) Chrysene-d12	21.533	240	16947	0.400	ng		0.00
35) Perylene-d12	24.010	264	14615	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.480	112	2764	0.263	ng		0.00
5) Phenol-d6	7.105	99	3395	0.258	ng		0.00
8) Nitrobenzene-d5	9.144	82	2354	0.211	ng		0.00
11) 2-Methylnaphthalene-d10	12.354	152	4225	0.208	ng		0.00
14) 2,4,6-Tribromophenol	16.089	330	783	0.211	ng		0.00
15) 2-Fluorobiphenyl	13.218	172	6213	0.213	ng		0.00
27) Fluoranthene-d10	19.379	212	9541	0.193	ng		0.00
31) Terphenyl-d14	19.964	244	8069	0.242	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.364	88	1009	0.203	ng		98
3) n-Nitrosodimethylamine	3.718	42	1086	0.192	ng		97
6) bis(2-Chloroethyl)ether	7.387	93	2519	0.201	ng		97
9) Naphthalene	10.820	128	7369	0.193	ng		98
10) Hexachlorobutadiene	11.044	225	1320	0.198	ng	#	100
12) 2-Methylnaphthalene	12.426	142	5102	0.192	ng		99
16) Acenaphthylene	14.319	152	7258	0.197	ng		99
17) Acenaphthene	14.651	154	4760	0.186	ng		98
18) Fluorene	15.643	166	6271	0.172	ng		99
20) 4,6-Dinitro-2-methylph...	16.797	198	66	0.234	ng	#	76
21) 4-Bromophenyl-phenylether	16.536	248	1874	0.192	ng	#	70
22) Hexachlorobenzene	16.623	284	2019	0.184	ng		97
23) Atrazine	16.797	200	1653	0.222	ng		95
24) Pentachlorophenol	16.983	266	872	0.190	ng		92
25) Phenanthrene	17.393	178	9990	0.182	ng		99
26) Anthracene	17.480	178	9209	0.192	ng		99
28) Fluoranthene	19.406	202	11923	0.177	ng		99
30) Pyrene	19.773	202	12502	0.207	ng		100
32) Benzo(a)anthracene	21.524	228	11697	0.199	ng		99
33) Chrysene	21.578	228	11331	0.180	ng		99
34) Bis(2-ethylhexyl)phtha...	21.399	149	8871	0.316	ng		99
36) Indeno(1,2,3-cd)pyrene	26.615	276	9435	0.157	ng		99
37) Benzo(b)fluoranthene	23.244	252	9795	0.174	ng	#	84
38) Benzo(k)fluoranthene	23.296	252	9747	0.170	ng	#	86
39) Benzo(a)pyrene	23.902	252	9093	0.177	ng	#	81
40) Dibenzo(a,h)anthracene	26.635	278	7630	0.156	ng	#	87
41) Benzo(g,h,i)perylene	27.428	276	7928	0.148	ng		91

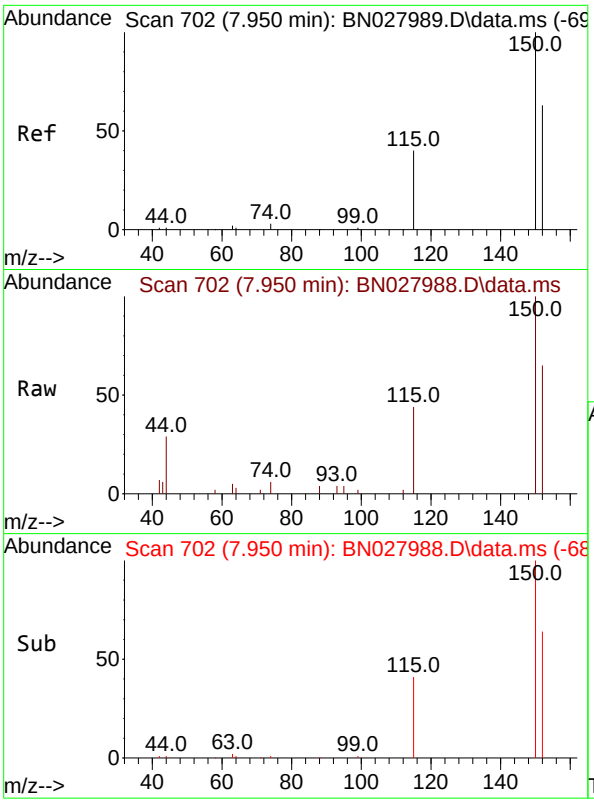
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100223\
Data File : BN027988.D
Acq On : 02 Oct 2023 15:36
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Oct 02 16:52:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 02 16:50:51 2023
Response via : Initial Calibration



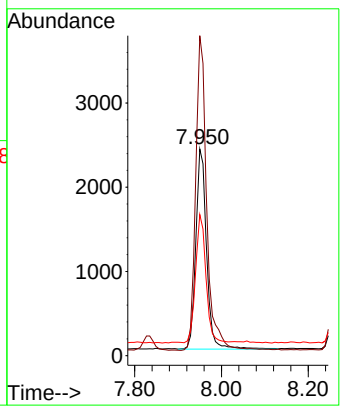


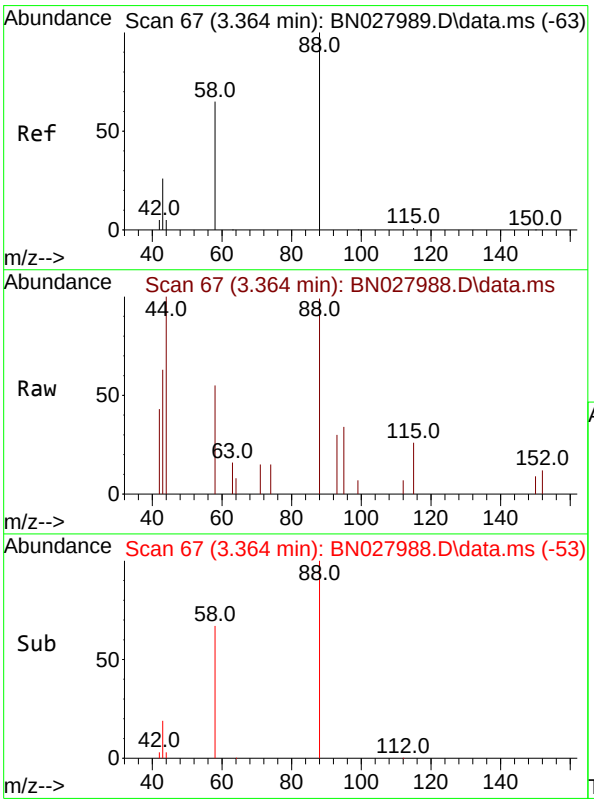
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.950 min Scan# 7(
Delta R.T. 0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4099

Ion	Ratio	Lower	Upper
152	100		
150	154.8	125.6	188.4
115	68.3	54.8	82.2

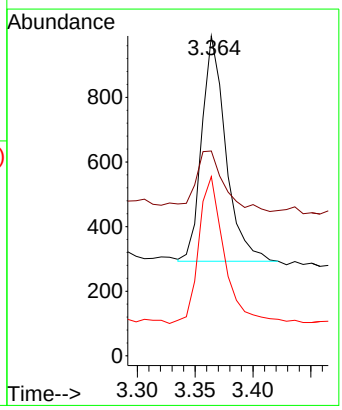


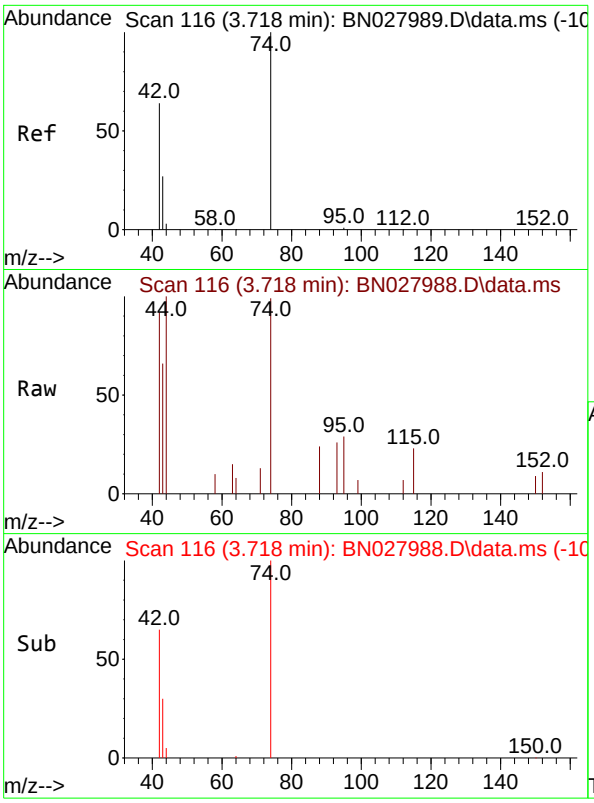


#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.364 min Scan# 67
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion: 88 Resp: 1009

Ion	Ratio	Lower	Upper
88	100		
43	30.9	24.6	36.8
58	69.8	53.8	80.6



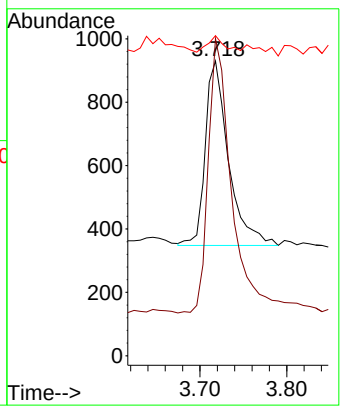


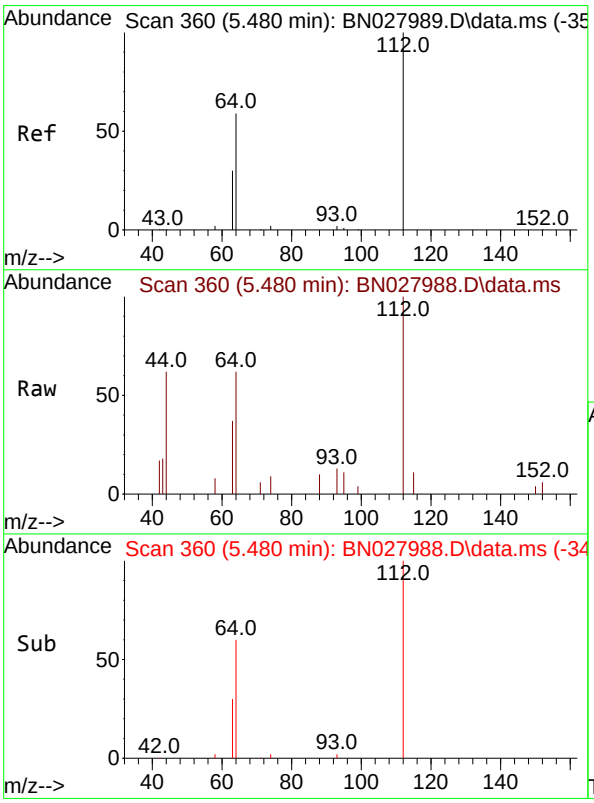
#3
n-Nitrosodimethylamine
Concen: 0.192 ng
RT: 3.718 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1086

Ion	Ratio	Lower	Upper
42	100		
74	147.9	115.9	173.9
44	8.1	8.0	12.0

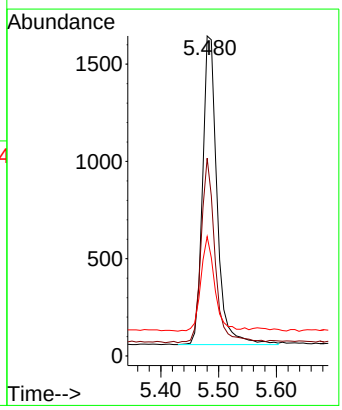


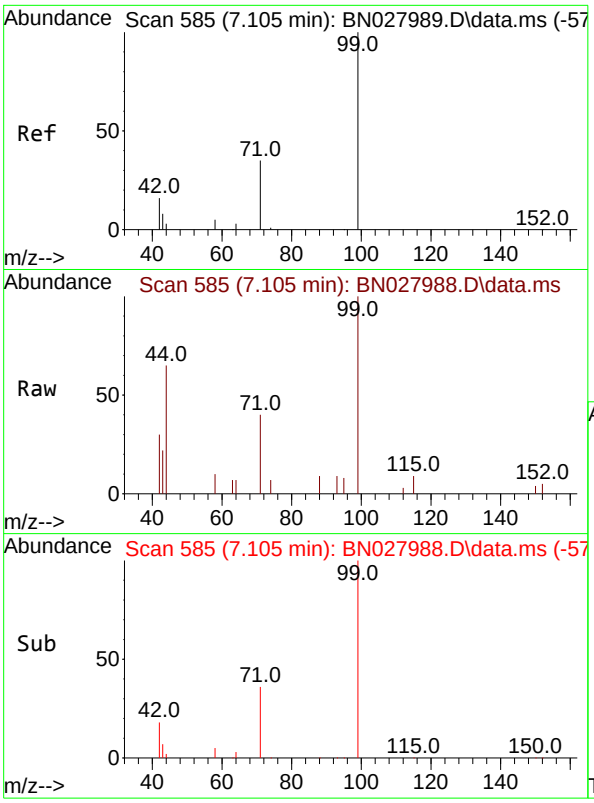


#4
2-Fluorophenol
Concen: 0.263 ng
RT: 5.480 min Scan# 360
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:112 Resp: 2764

Ion	Ratio	Lower	Upper
112	100		
64	57.2	45.0	67.6
63	29.2	23.4	35.0



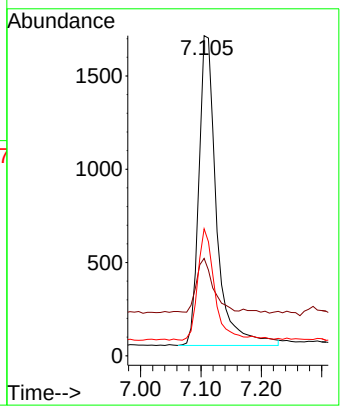


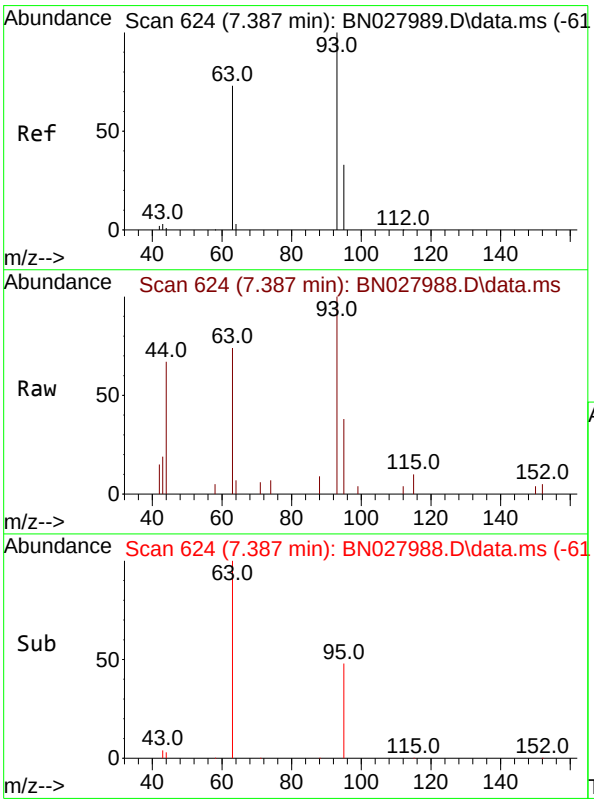
#5
Phenol-d6
Concen: 0.258 ng
RT: 7.105 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 3395

Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.6	22.0
71	34.6	28.3	42.5

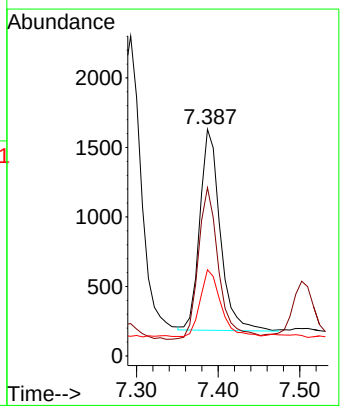


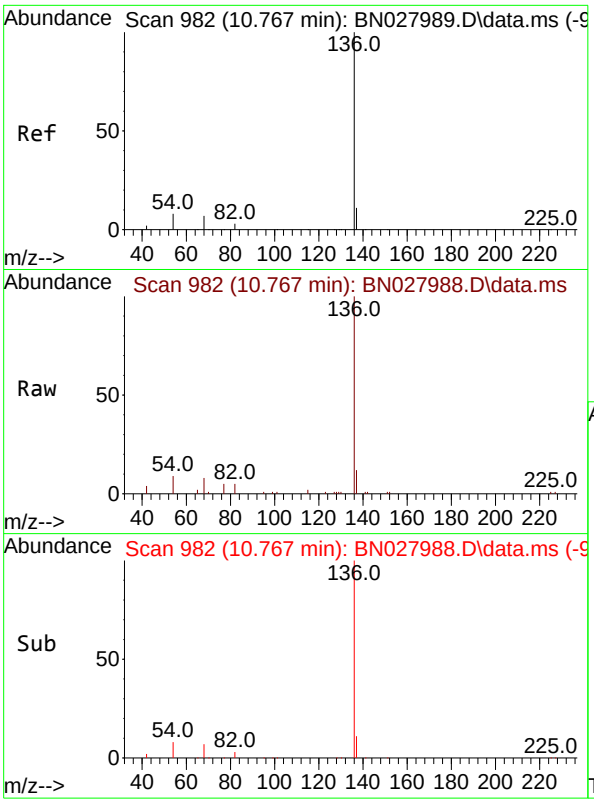


#6
bis(2-Chloroethyl)ether
Concen: 0.201 ng
RT: 7.387 min Scan# 624
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion: 93 Resp: 2519

Ion	Ratio	Lower	Upper
93	100		
63	75.9	58.8	88.2
95	34.3	26.6	39.8



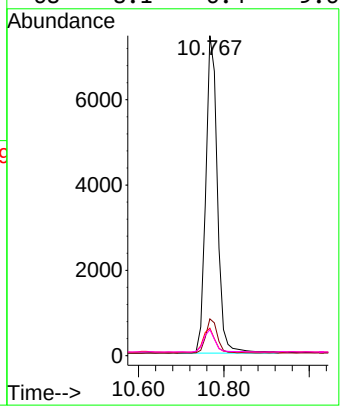


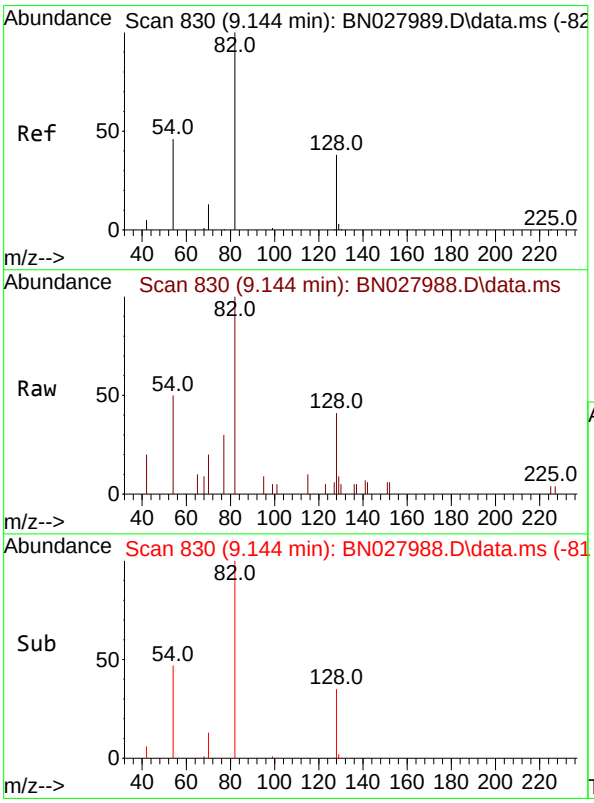
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.767 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 14062

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.4	14.0
54	8.6	7.0	10.6
68	8.1	6.4	9.6

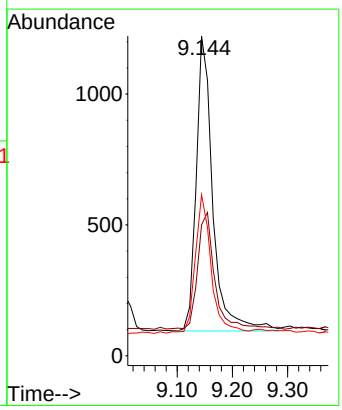


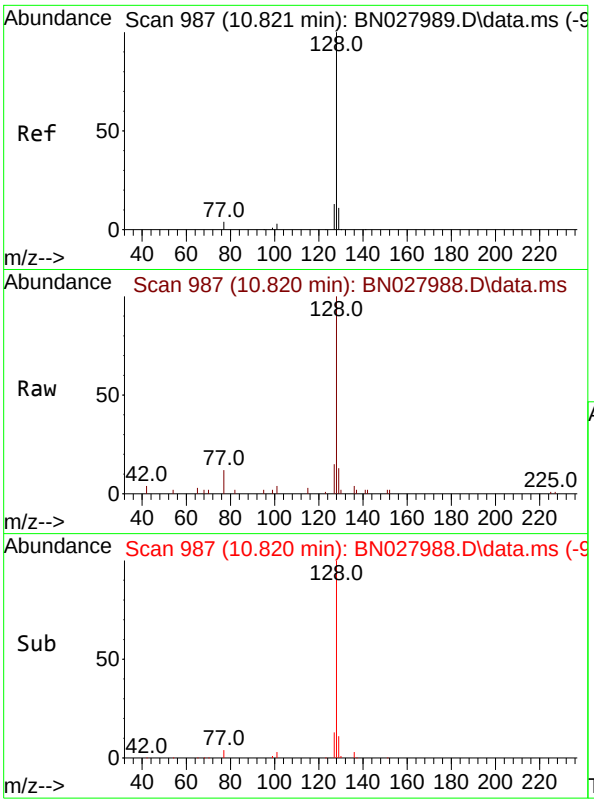


#8
Nitrobenzene-d5
Concen: 0.211 ng
RT: 9.144 min Scan# 830
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion: 82 Resp: 2354

Ion	Ratio	Lower	Upper
82	100		
128	40.9	32.7	49.1
54	50.3	38.7	58.1



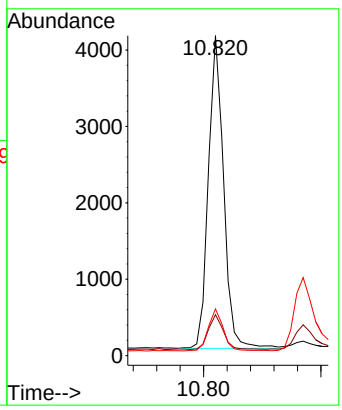


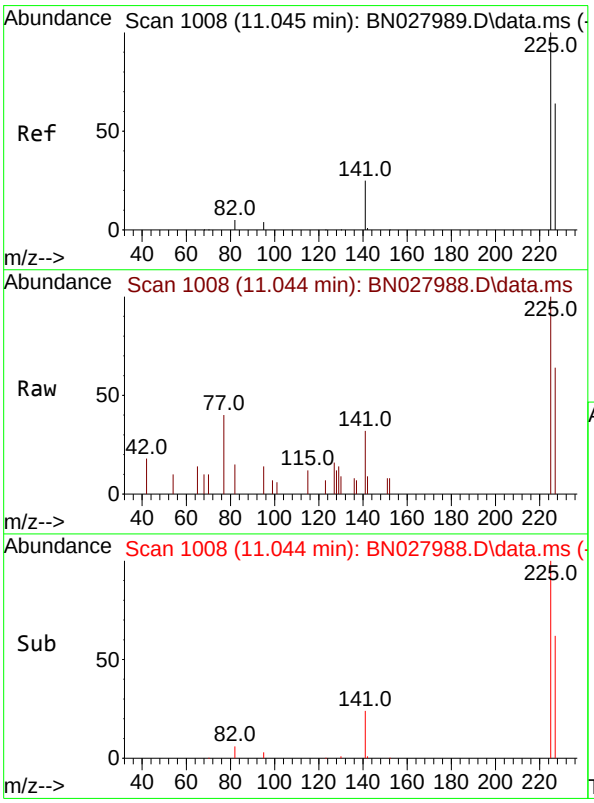
#9
Naphthalene
Concen: 0.193 ng
RT: 10.820 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 7369

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.4	14.2
127	14.6	10.9	16.3

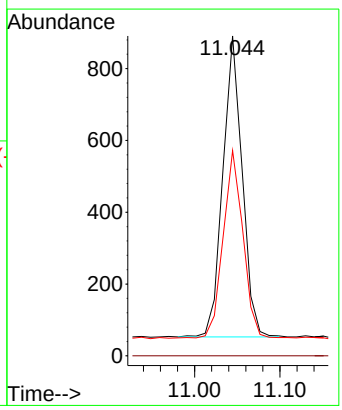


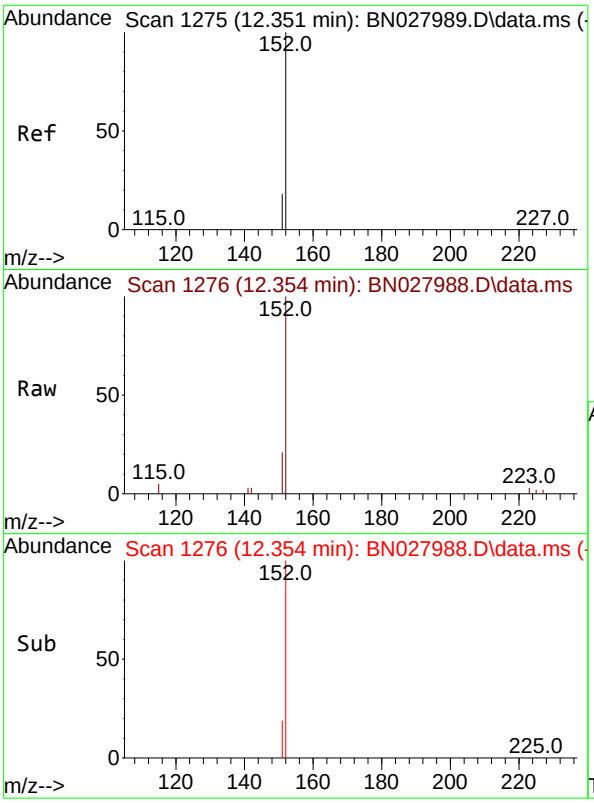


#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.044 min Scan# 1008
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:225 Resp: 1320

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.3	76.9



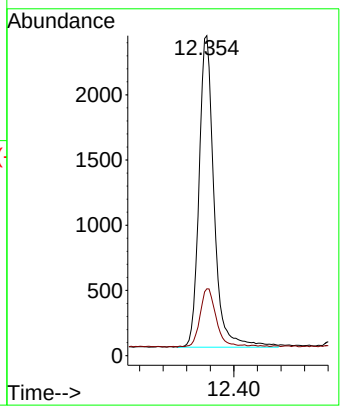


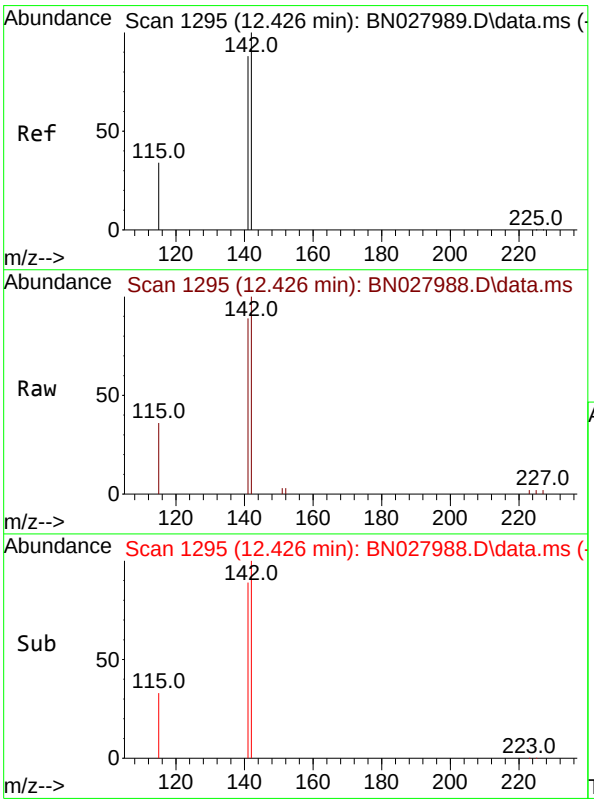
#11
2-Methylnaphthalene-d10
Concen: 0.208 ng
RT: 12.354 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4225

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.5	24.7

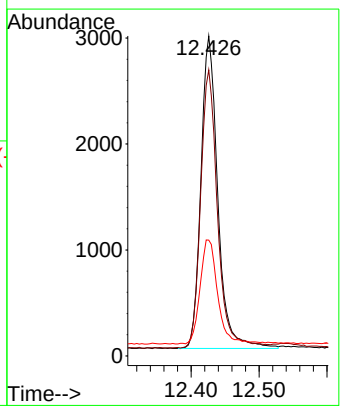


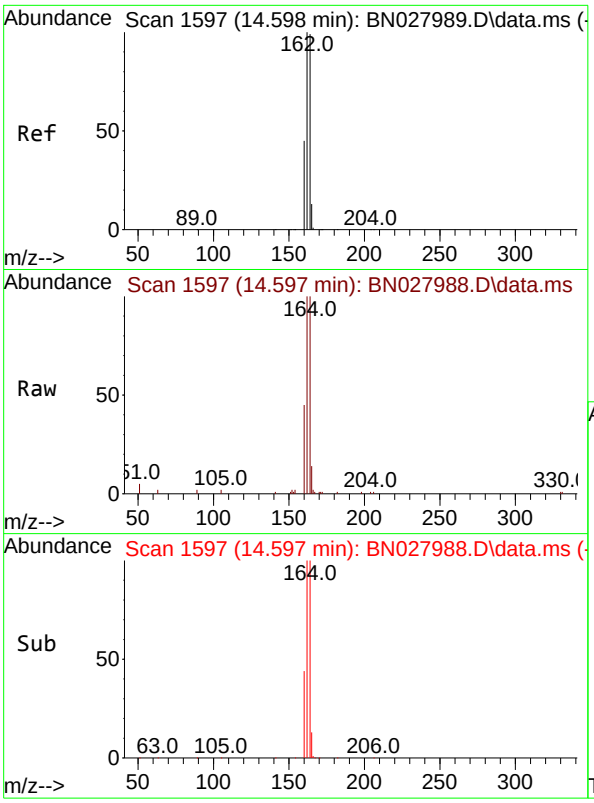


#12
2-Methylnaphthalene
Concen: 0.192 ng
RT: 12.426 min Scan# 1295
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:142 Resp: 5102

Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.7	106.1
115	36.2	28.6	42.8



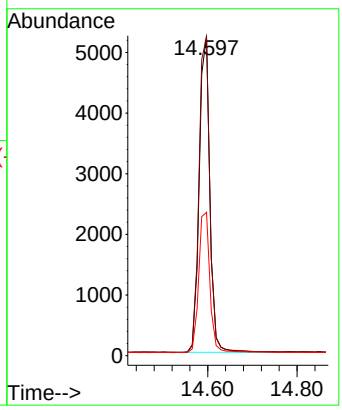


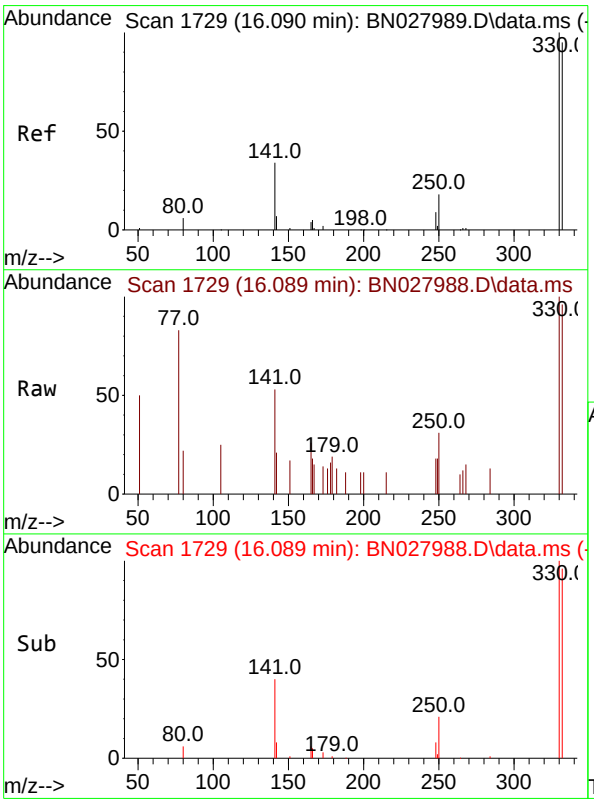
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.597 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 8593

Ion	Ratio	Lower	Upper
164	100		
162	99.6	80.8	121.2
160	44.8	36.4	54.6

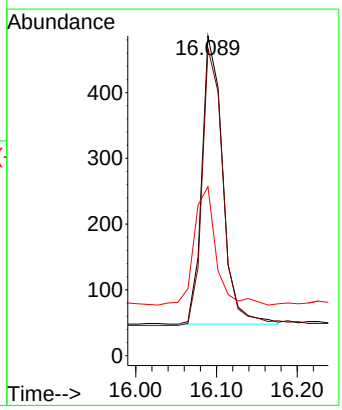


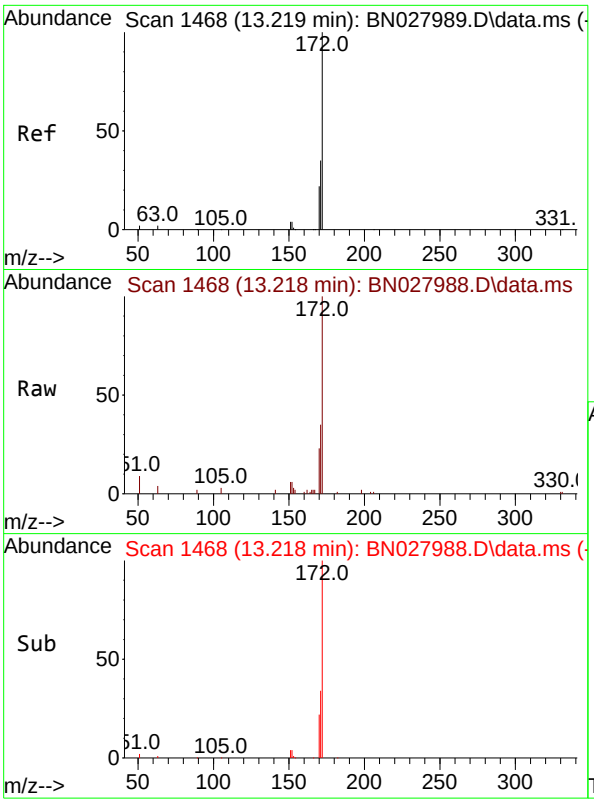


#14
2,4,6-Tribromophenol
Concen: 0.211 ng
RT: 16.089 min Scan# 1729
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:330 Resp: 783

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.1	117.1
141	43.0	33.4	50.2



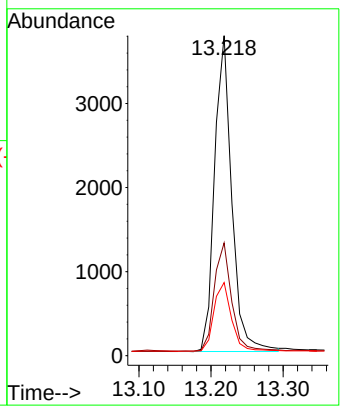


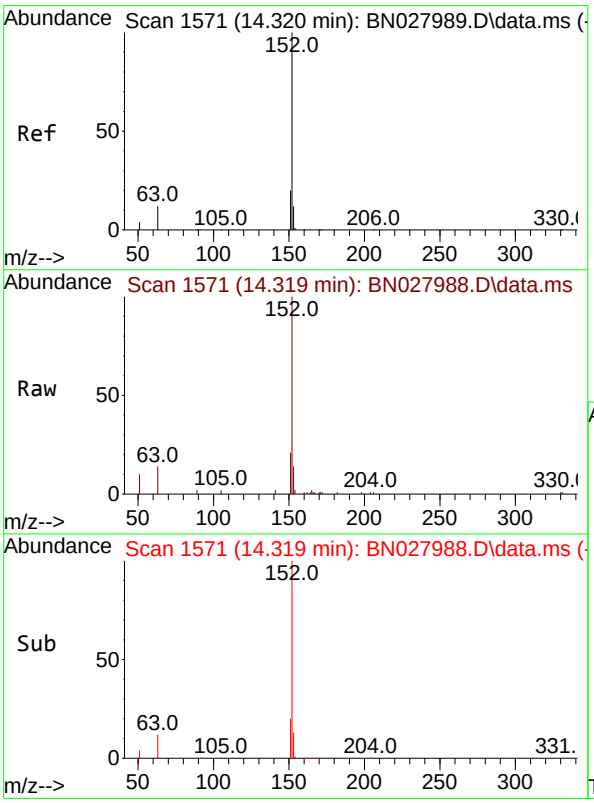
#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 13.218 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 6213

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	22.9	18.4	27.6

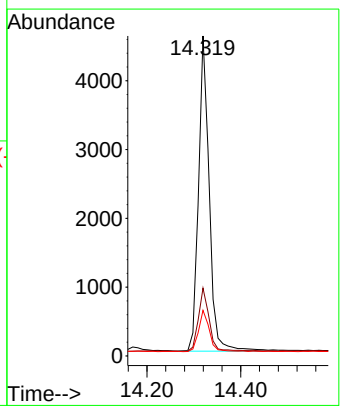


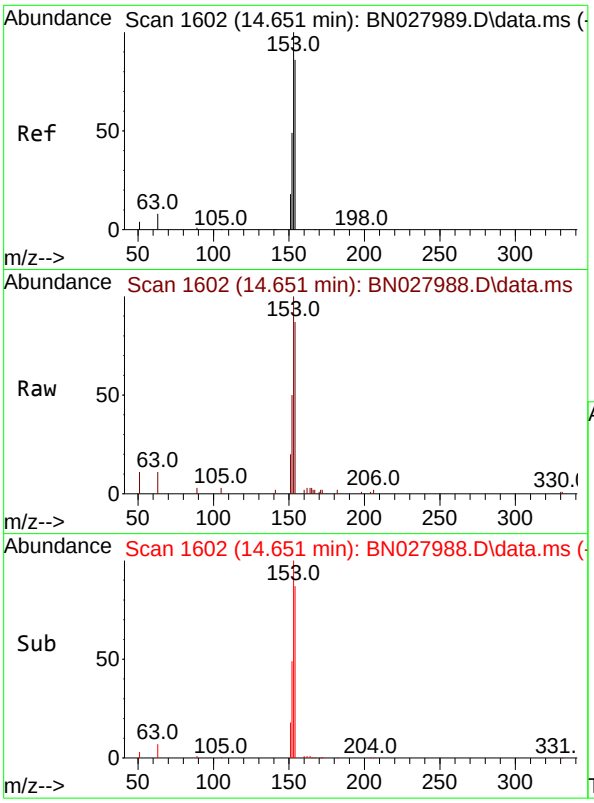


#16
Acenaphthylene
Concen: 0.197 ng
RT: 14.319 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:152 Resp: 7258

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.6
153	13.4	10.2	15.4



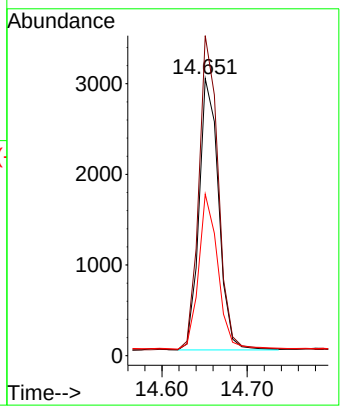


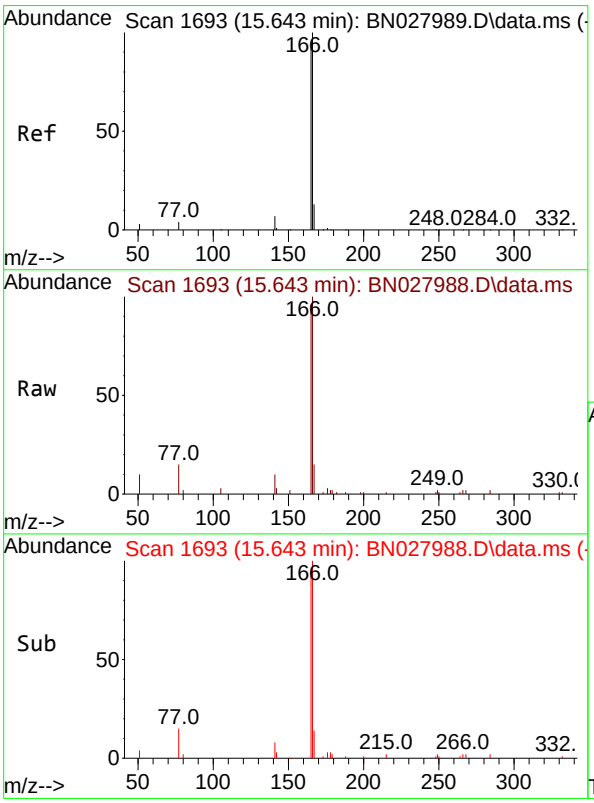
#17
Acenaphthene
Concen: 0.186 ng
RT: 14.651 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 4760

Ion	Ratio	Lower	Upper
154	100		
153	115.6	90.8	136.2
152	55.4	43.9	65.9

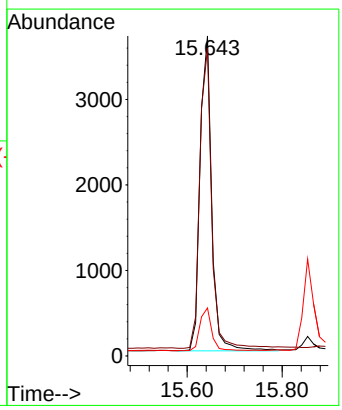


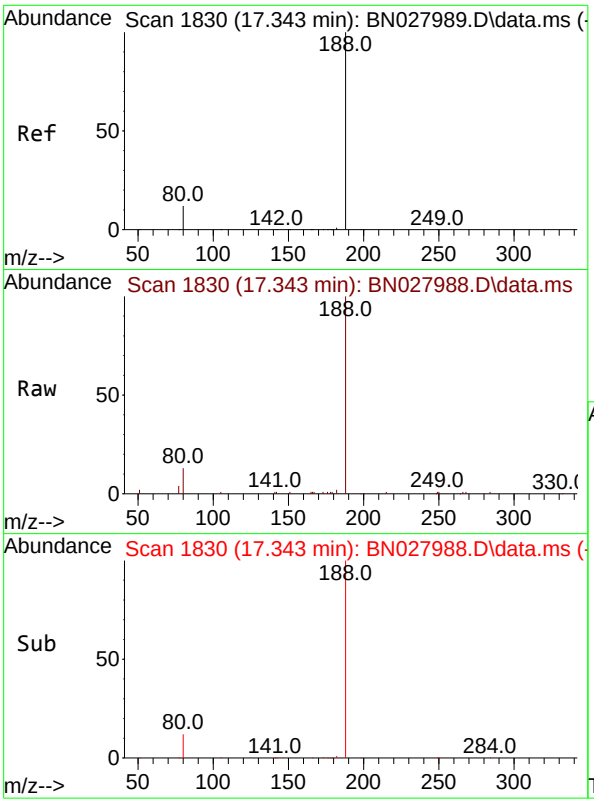


#18
Fluorene
Concen: 0.172 ng
RT: 15.643 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:166 Resp: 6271

Ion	Ratio	Lower	Upper
166	100		
165	96.6	77.8	116.8
167	13.8	10.7	16.1



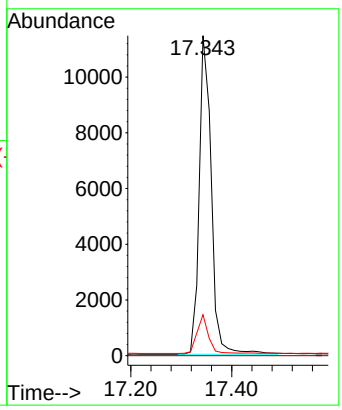


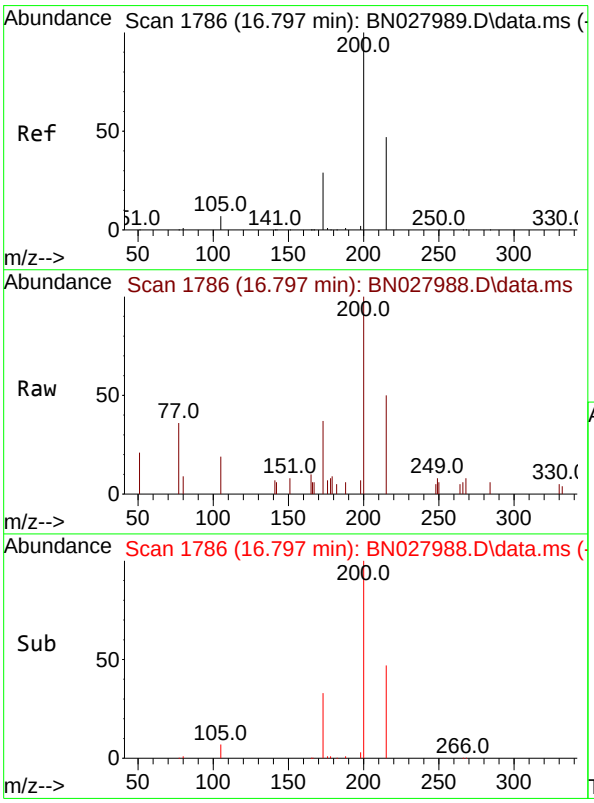
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 19025

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.8	10.2	15.4

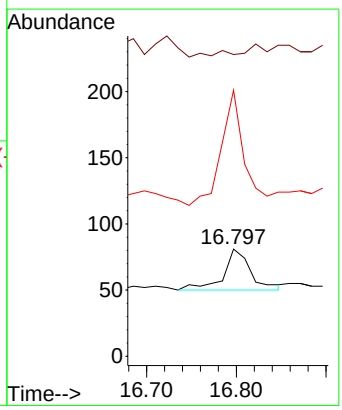


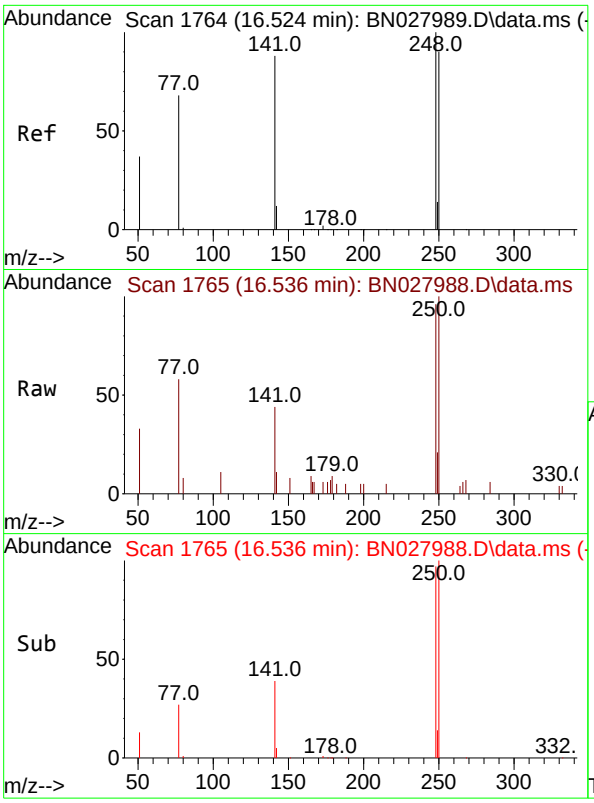


#20
4,6-Dinitro-2-methylphenol
Concen: 0.234 ng
RT: 16.797 min Scan# 1786
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:198 Resp: 66

Ion	Ratio	Lower	Upper
198	100		
51	281.5	180.7	271.1#
105	248.1	222.2	333.2



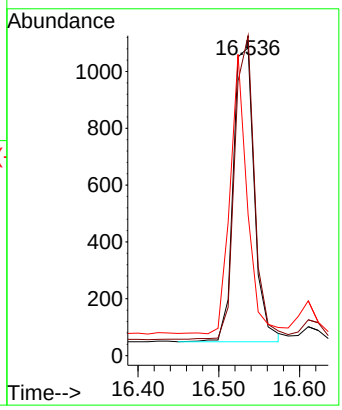


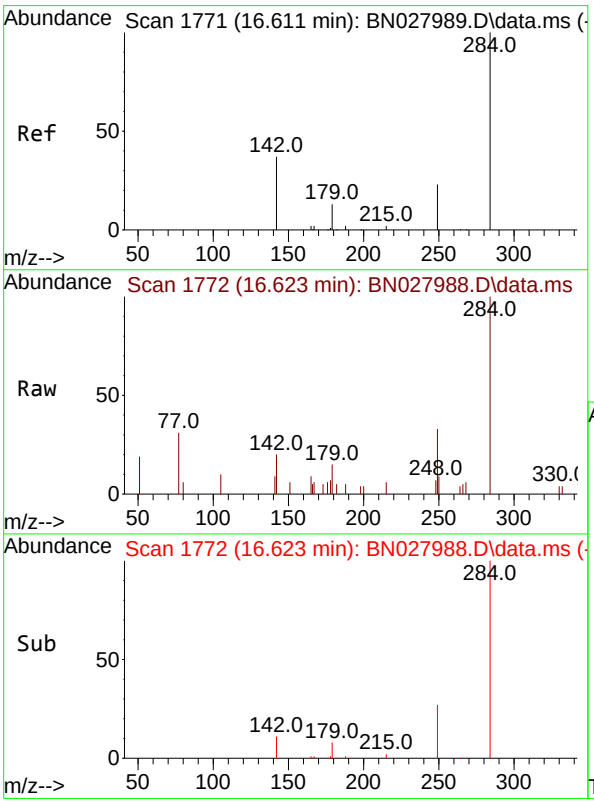
#21
4-Bromophenyl-phenylether
Concen: 0.192 ng
RT: 16.536 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1874

Ion	Ratio	Lower	Upper
248	100		
250	103.9	72.3	108.5
141	45.8	71.8	107.6#

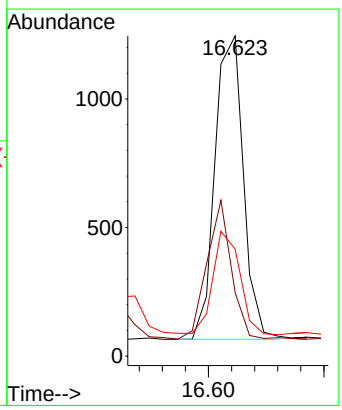


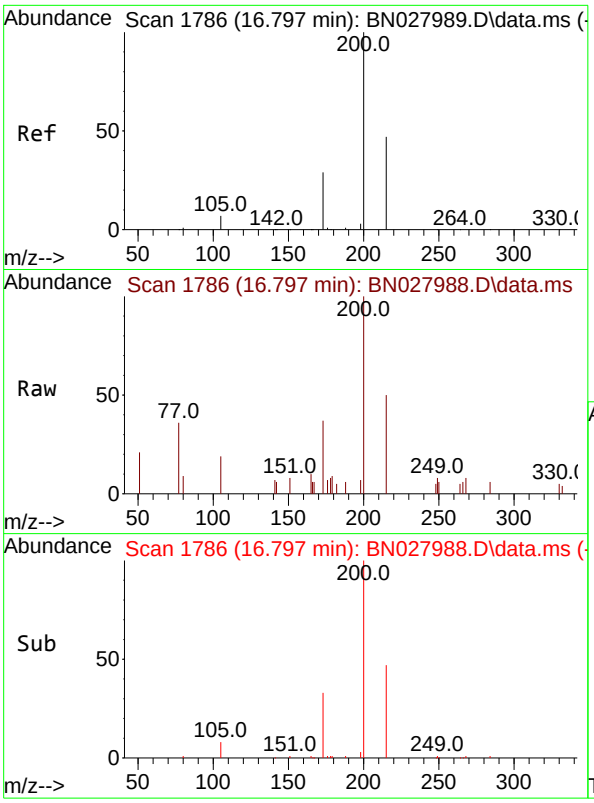


#22
Hexachlorobenzene
Concen: 0.184 ng
RT: 16.623 min Scan# 1772
Delta R.T. 0.012 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:284 Resp: 2019

Ion	Ratio	Lower	Upper
284	100		
142	39.2	29.9	44.9
249	32.4	25.0	37.4



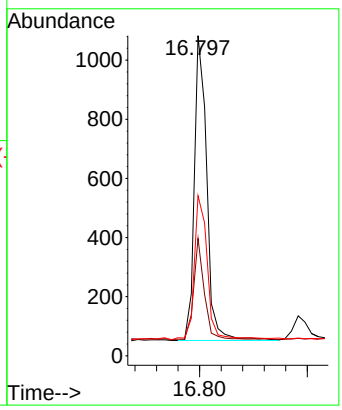


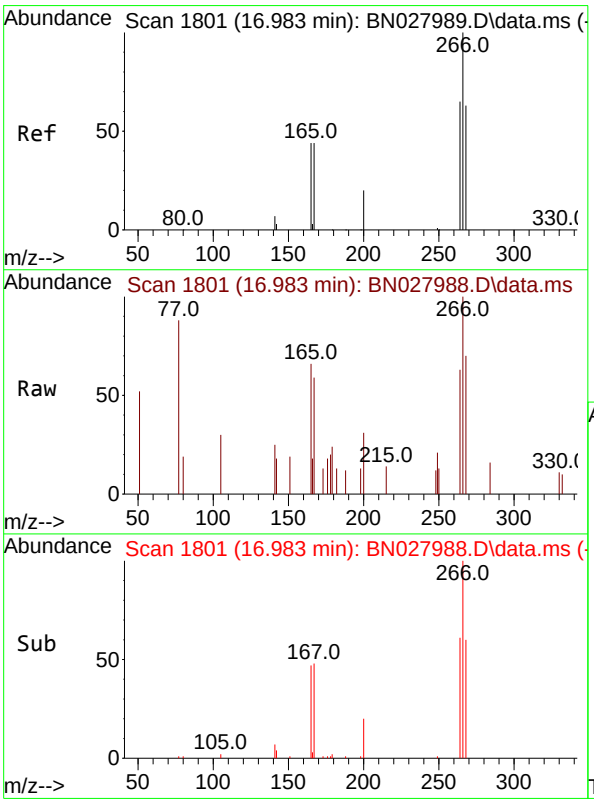
#23
Atrazine
Concen: 0.222 ng
RT: 16.797 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1653

Ion	Ratio	Lower	Upper
200	100		
173	36.7	24.7	37.1
215	50.0	39.0	58.6

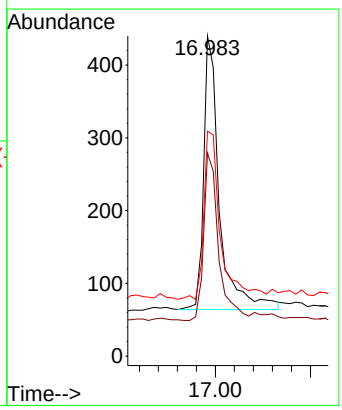


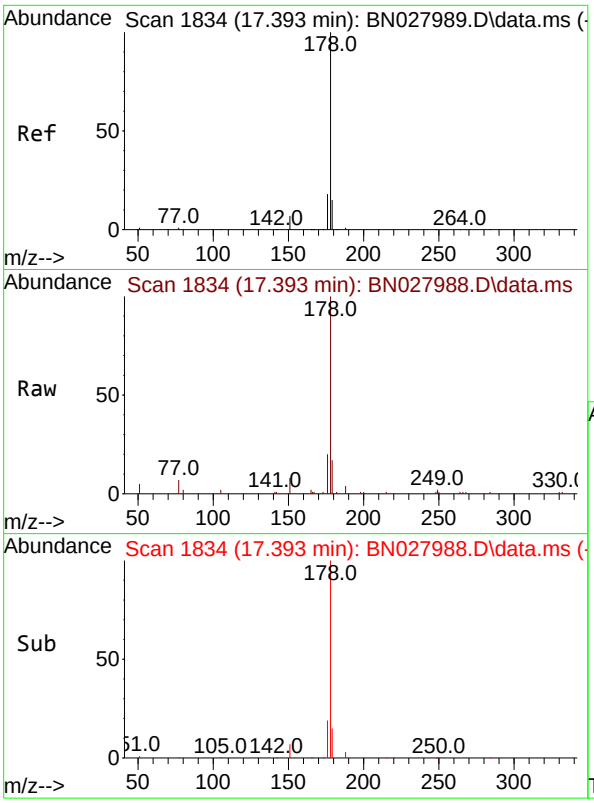


#24
Pentachlorophenol
Concen: 0.190 ng
RT: 16.983 min Scan# 1801
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:266 Resp: 872

Ion	Ratio	Lower	Upper
266	100		
264	57.5	52.7	79.1
268	65.0	56.2	84.2



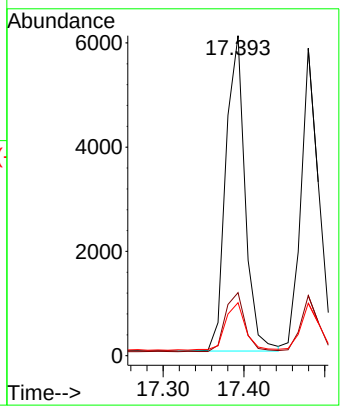


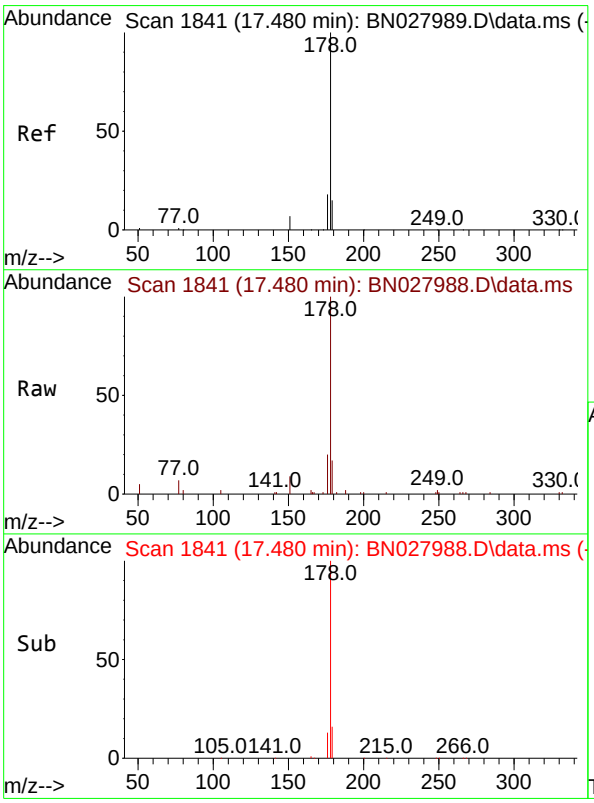
#25
Phenanthrene
Concen: 0.182 ng
RT: 17.393 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 9990

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	15.8	12.4	18.6

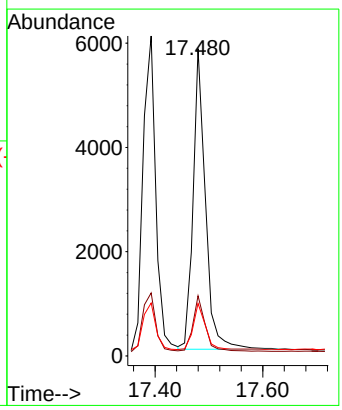


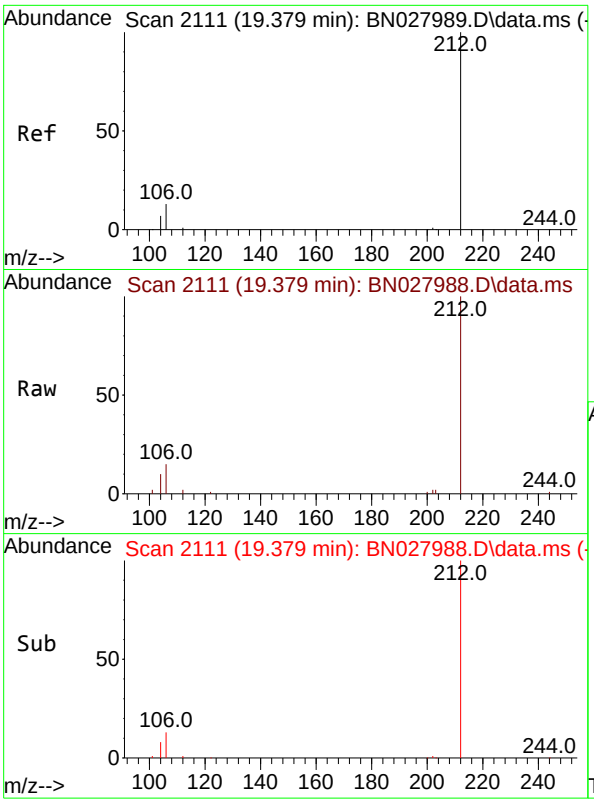


#26
Anthracene
Concen: 0.192 ng
RT: 17.480 min Scan# 1841
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:178 Resp: 9209

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	15.4	12.2	18.2



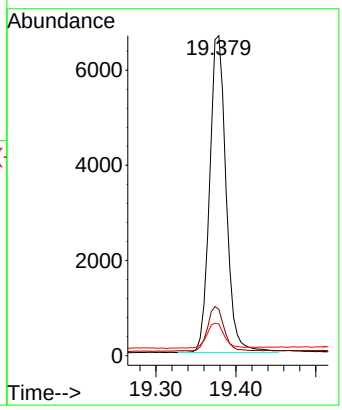


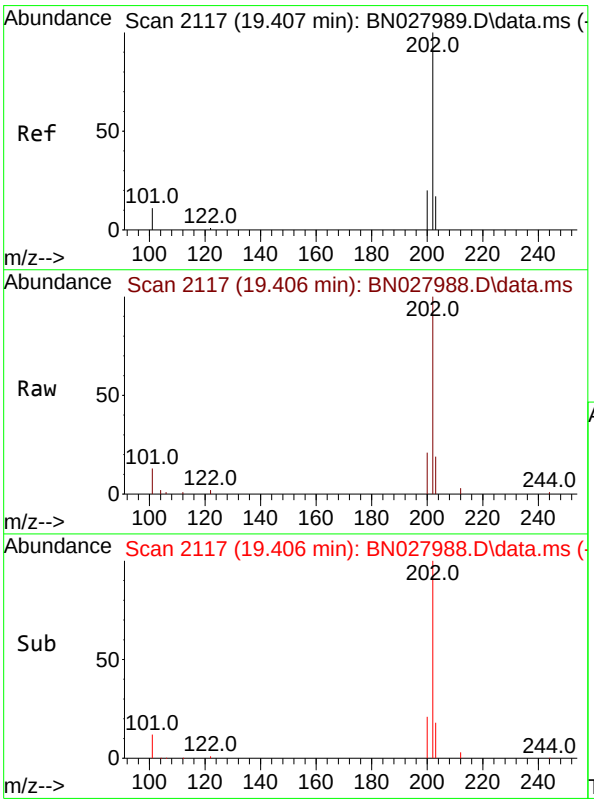
#27
Fluoranthene-d10
Concen: 0.193 ng
RT: 19.379 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 9541

Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.3	16.9
104	8.9	6.4	9.6

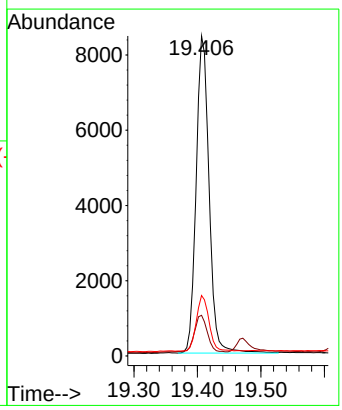


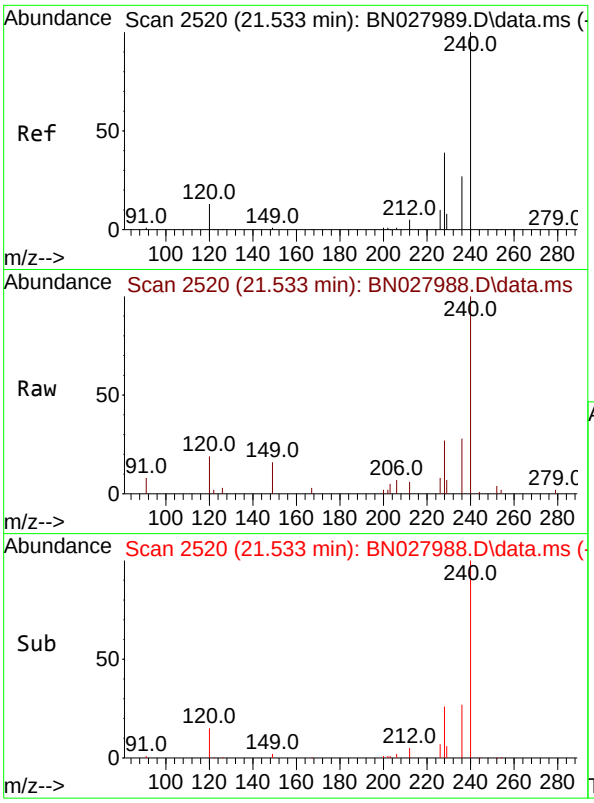


#28
Fluoranthene
Concen: 0.177 ng
RT: 19.406 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:202 Resp: 11923

Ion	Ratio	Lower	Upper
202	100		
101	12.5	9.8	14.6
203	16.9	13.8	20.8



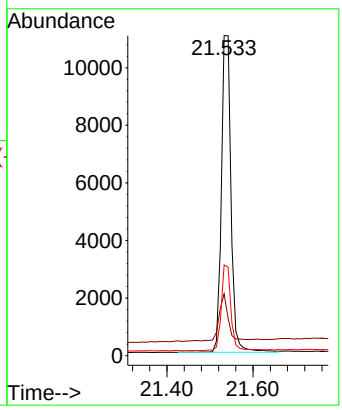


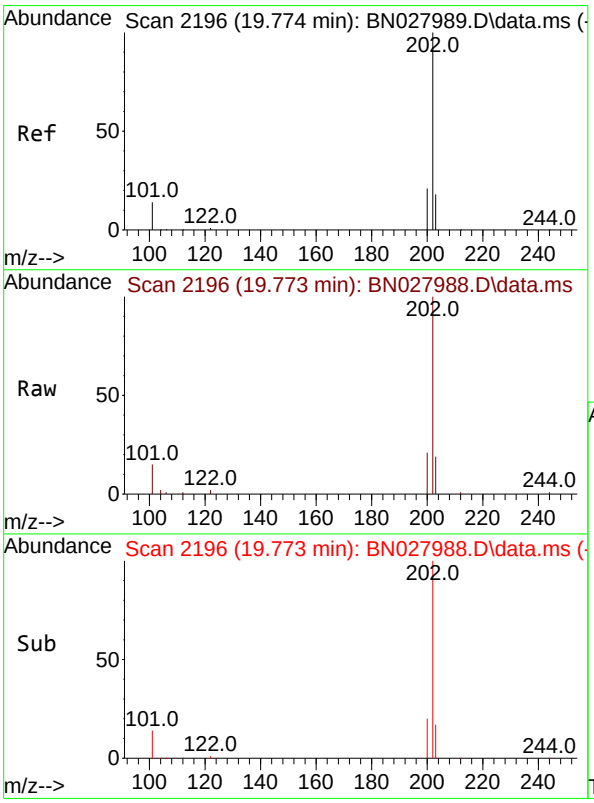
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.533 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 16947

Ion	Ratio	Lower	Upper
240	100		
120	19.3	13.8	20.6
236	28.4	22.6	33.8

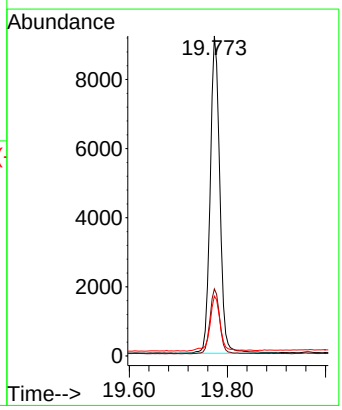


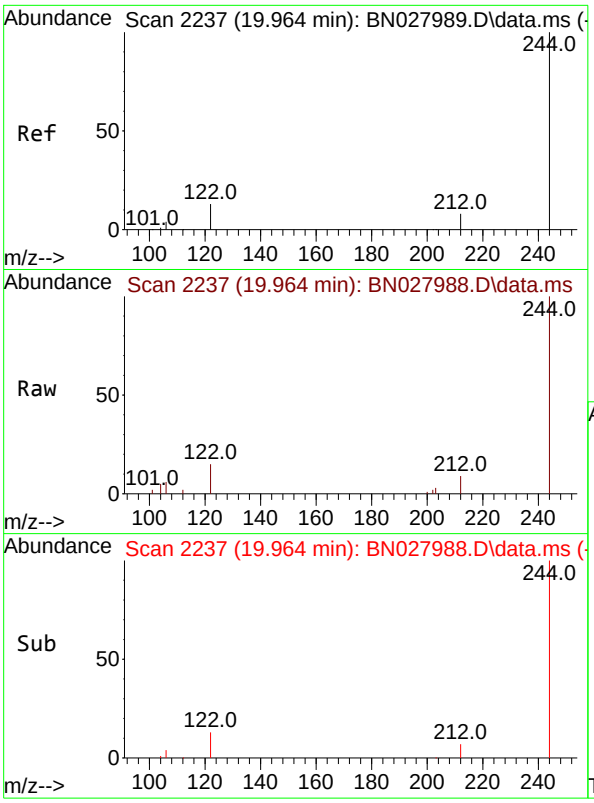


#30
Pyrene
Concen: 0.207 ng
RT: 19.773 min Scan# 2196
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:202 Resp: 12502

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.5	24.7
203	18.6	14.7	22.1



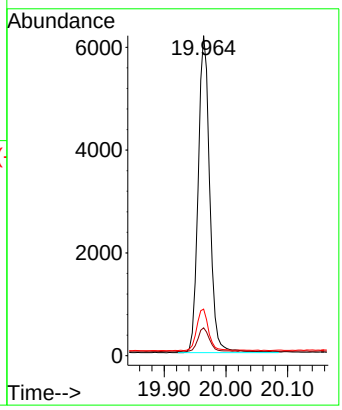


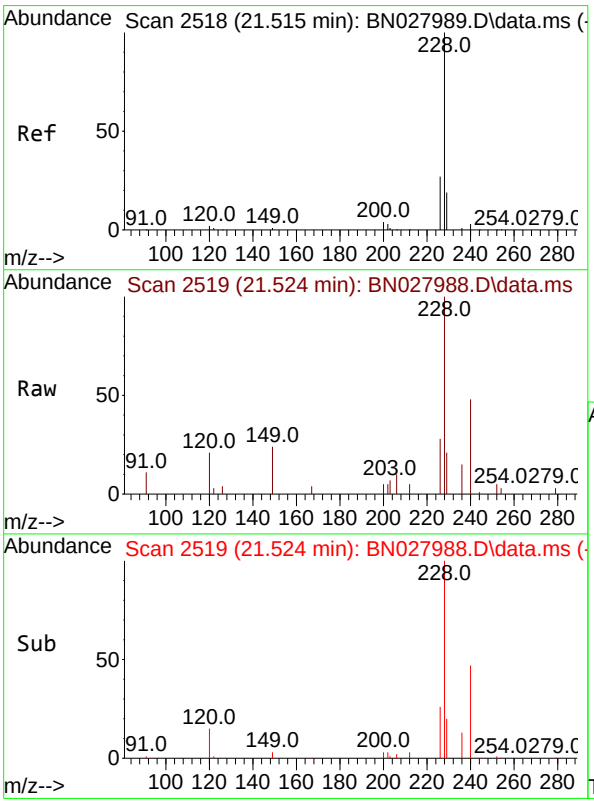
#31
Terphenyl-d14
Concen: 0.242 ng
RT: 19.964 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 8069

Ion	Ratio	Lower	Upper
244	100		
212	8.7	6.6	9.8
122	14.6	11.4	17.0

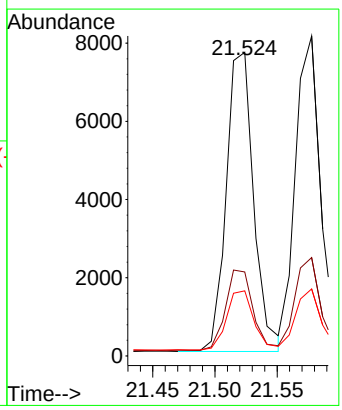


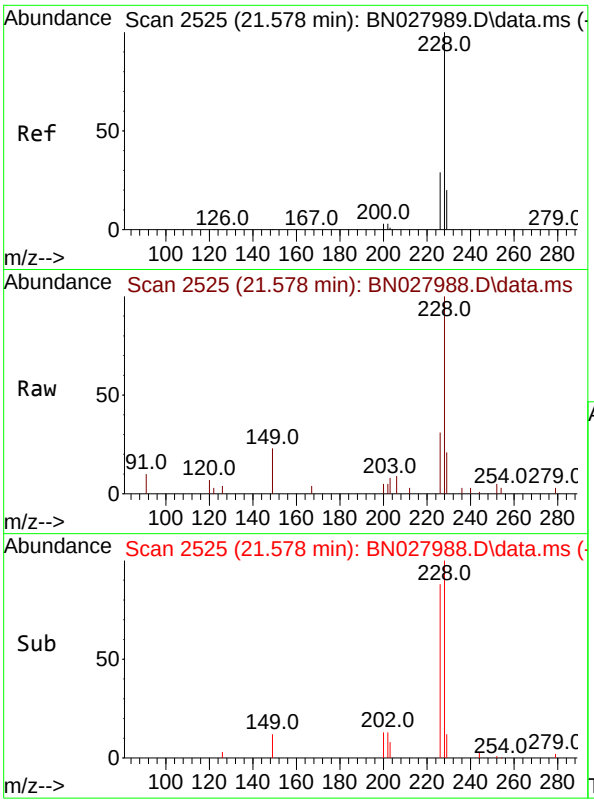


#32
Benzo(a)anthracene
Concen: 0.199 ng
RT: 21.524 min Scan# 2519
Delta R.T. 0.009 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:228 Resp: 11697

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.0	33.0
229	21.4	16.0	24.0



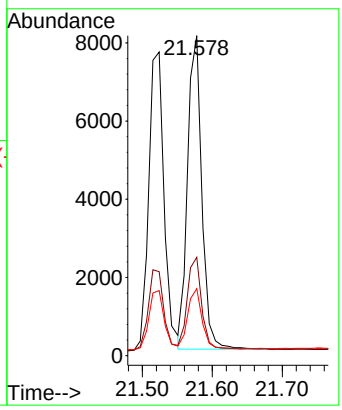


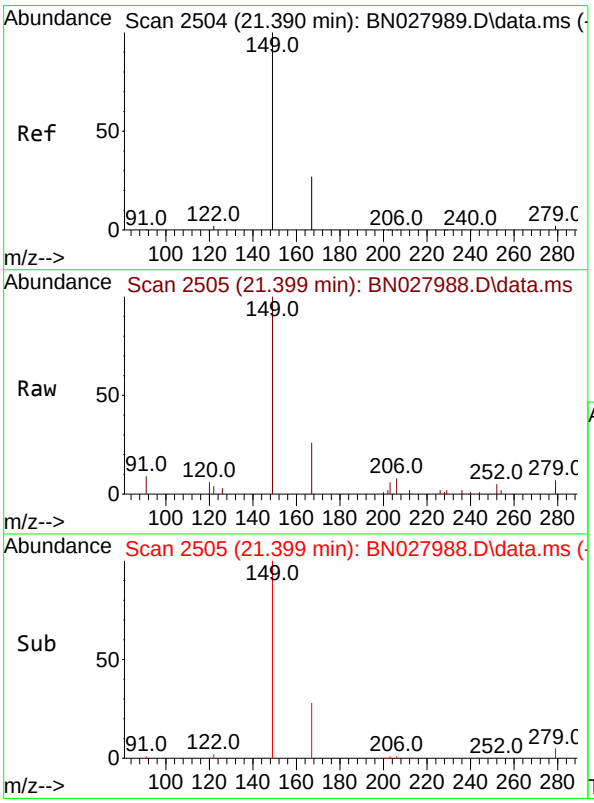
#33
Chrysene
Concen: 0.180 ng
RT: 21.578 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 11331

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.8	35.8
229	21.0	16.6	25.0

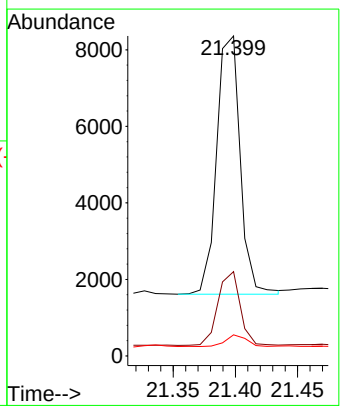


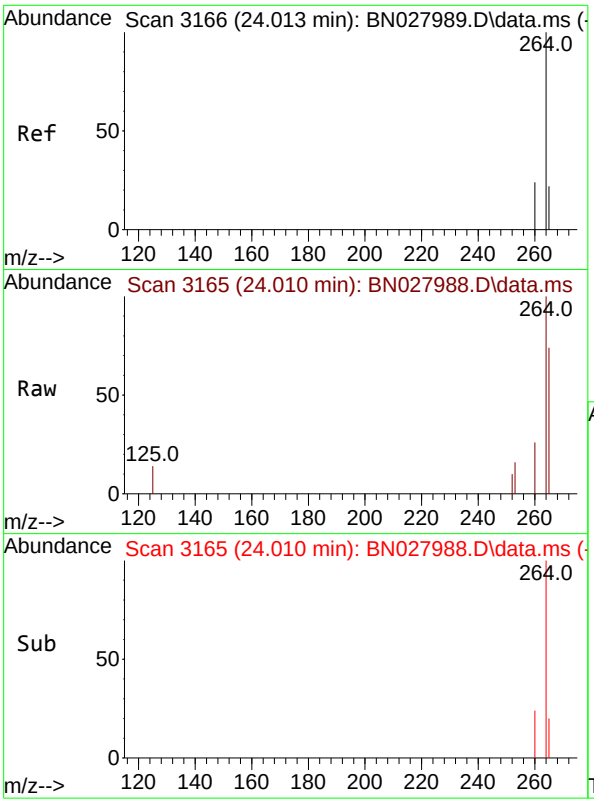


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.316 ng
RT: 21.399 min Scan# 2505
Delta R.T. 0.009 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:149 Resp: 8871

Ion	Ratio	Lower	Upper
149	100		
167	27.0	22.1	33.1
279	4.3	3.4	5.0



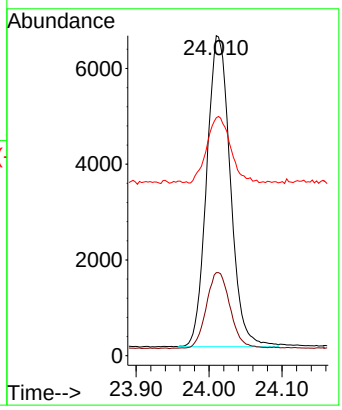


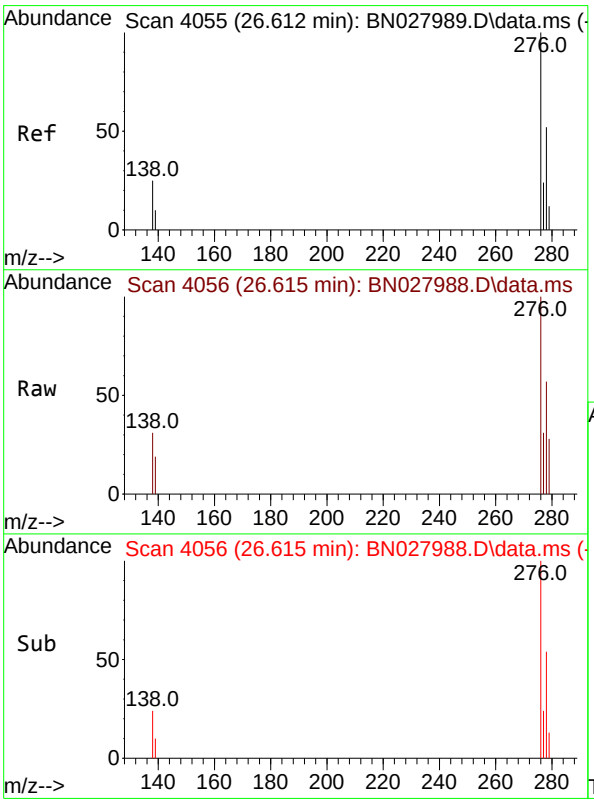
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.010 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 14615

Ion	Ratio	Lower	Upper
264	100		
260	26.0	20.2	30.4
265	74.3	54.8	82.2

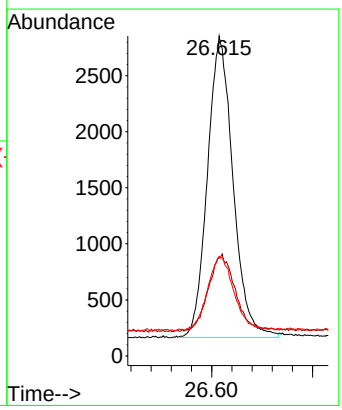


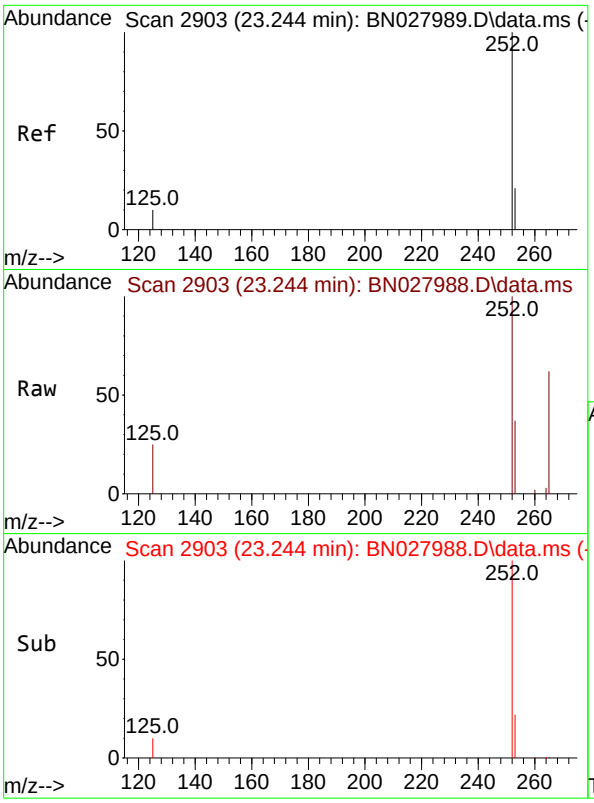


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.157 ng
RT: 26.615 min Scan# 4056
Delta R.T. 0.003 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:276 Resp: 9435

Ion	Ratio	Lower	Upper
276	100		
138	26.3	20.9	31.3
277	25.4	19.8	29.6



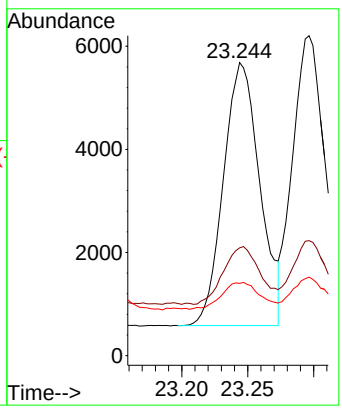


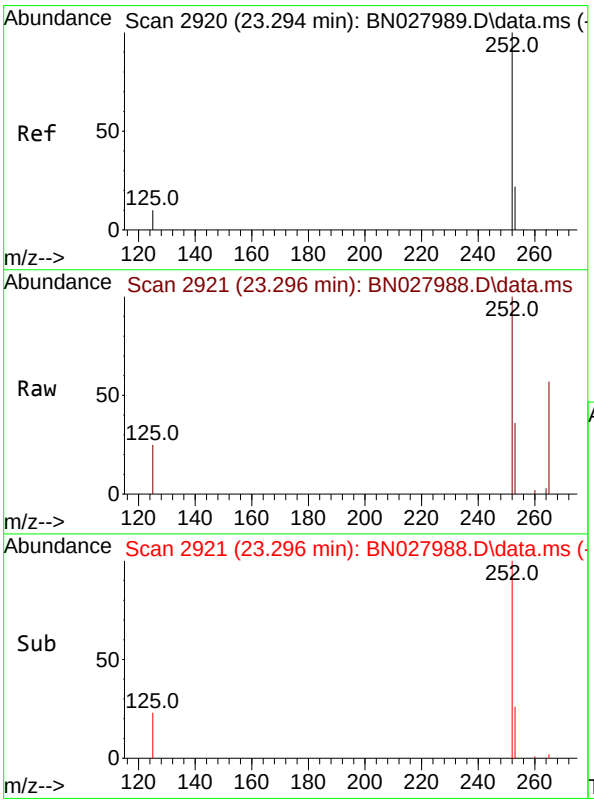
#37
Benzo(b)fluoranthene
Concen: 0.174 ng
RT: 23.244 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 9795

Ion	Ratio	Lower	Upper
252	100		
253	36.8	22.9	34.3#
125	24.7	13.8	20.8#

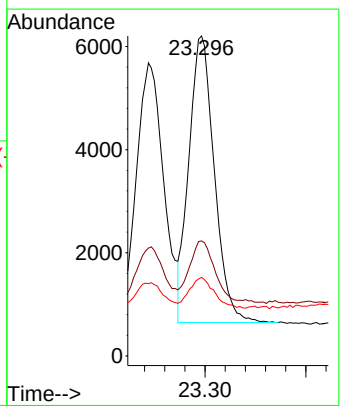


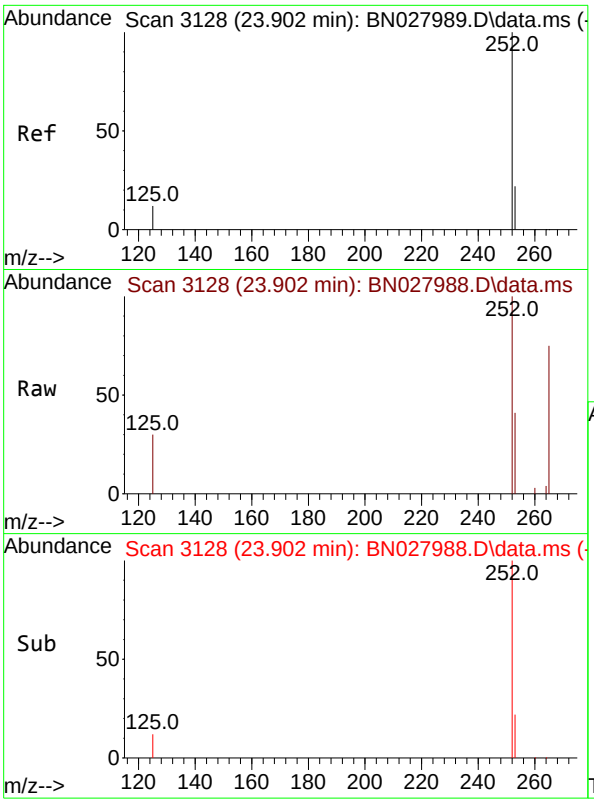


#38
Benzo(k)fluoranthene
Concen: 0.170 ng
RT: 23.296 min Scan# 2921
Delta R.T. 0.003 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:252 Resp: 9747

Ion	Ratio	Lower	Upper
252	100		
253	35.9	23.1	34.7#
125	24.5	13.8	20.8#



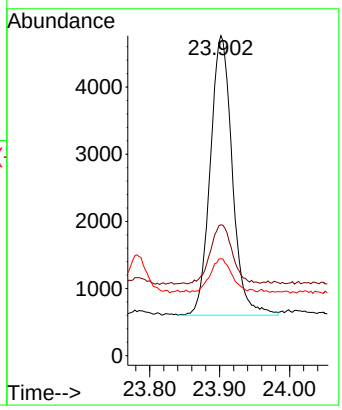


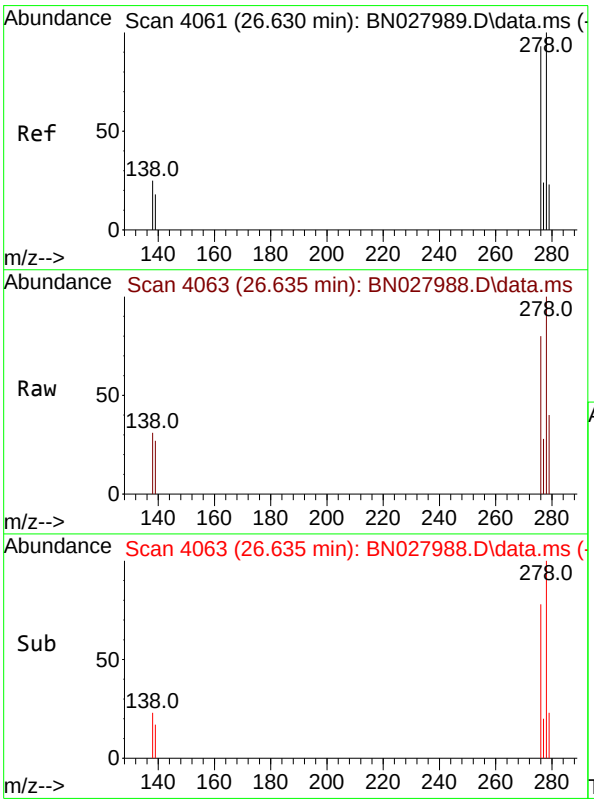
#39
Benzo(a)pyrene
Concen: 0.177 ng
RT: 23.902 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 9093

Ion	Ratio	Lower	Upper
252	100		
253	40.9	25.0	37.4#
125	30.3	16.6	24.8#

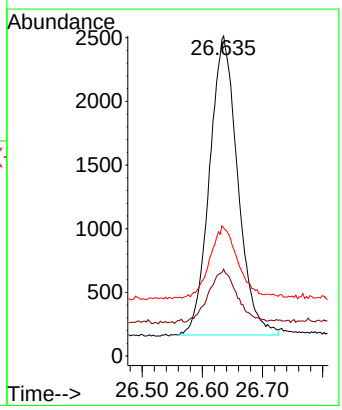


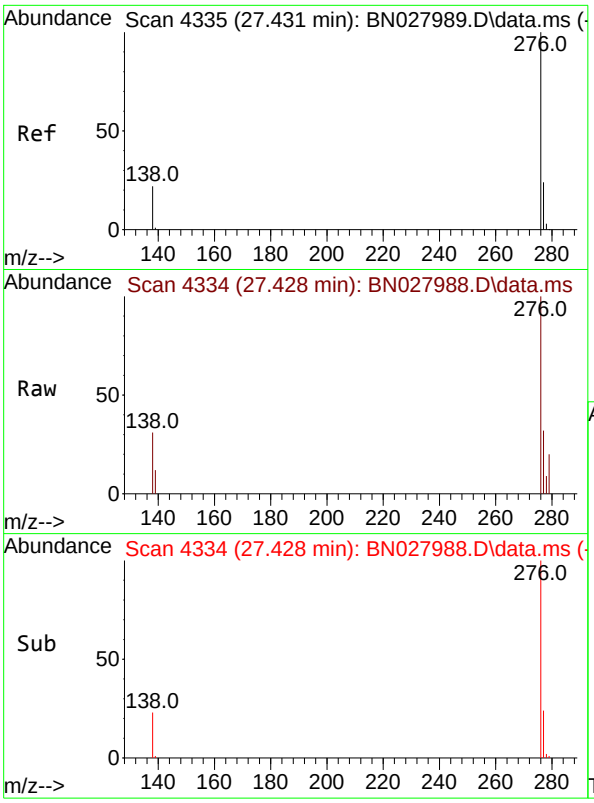


#40
Dibenzo(a,h)anthracene
Concen: 0.156 ng
RT: 26.635 min Scan# 4063
Delta R.T. 0.005 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Tgt Ion:278 Resp: 7630

Ion	Ratio	Lower	Upper
278	100		
139	27.2	17.7	26.5#
279	40.0	25.2	37.8#





#41
Benzo(g,h,i)perylene
Concen: 0.148 ng
RT: 27.428 min Scan# 4
Delta R.T. -0.003 min
Lab File: BN027988.D
Acq: 02 Oct 2023 15:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 7928

Ion	Ratio	Lower	Upper
276	100		
277	32.5	22.1	33.1
138	30.9	20.8	31.2