Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111621\
Data File : BN017469.D
Acq On : 16 Nov 2021 10:42
Operator : CG/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 16 11:43:12 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN111621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 16 11:40:41 2021
Response via : Initial Calibration

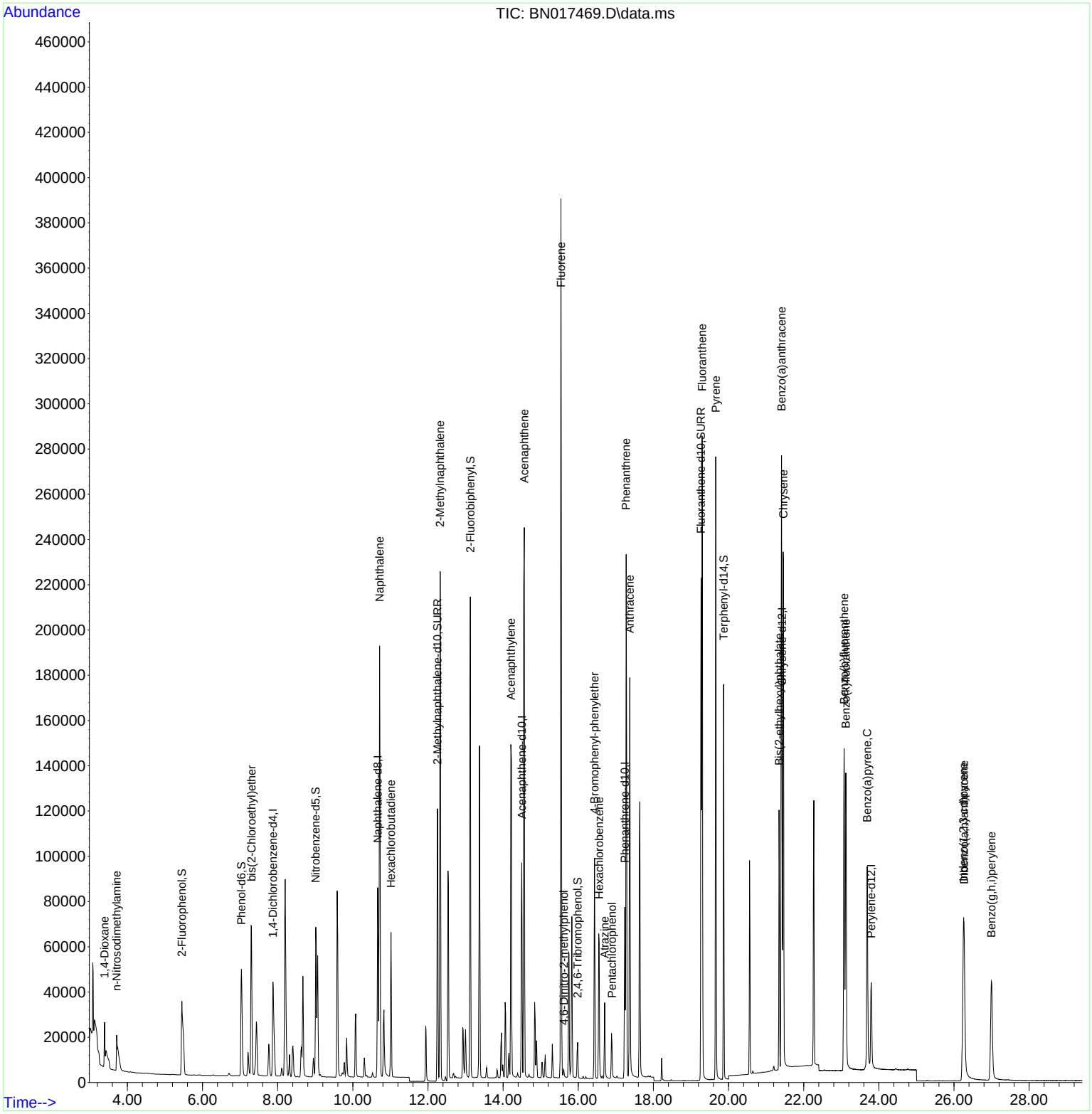
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.874	152	26243	0.400	ng		0.00
7) Naphthalene-d8	10.662	136	114616	0.400	ng	#	0.00
13) Acenaphthene-d10	14.499	164	58110	0.400	ng		0.00
19) Phenanthrene-d10	17.238	188	97596	0.400	ng		0.00
29) Chrysene-d12	21.420	240	79507	0.400	ng	#	0.00
35) Perylene-d12	23.797	264	56282	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.449	112	53532	0.885	ng		0.00
5) Phenol-d6	7.035	99	57360	0.861	ng		0.00
8) Nitrobenzene-d5	9.014	82	59396	0.864	ng		0.00
11) 2-Methylnaphthalene-d10	12.253	152	164263	0.973	ng		0.00
14) 2,4,6-Tribromophenol	15.983	330	12012	0.554	ng		0.00
15) 2-Fluorobiphenyl	13.128	172	191213	0.865	ng		0.00
27) Fluoranthene-d10	19.268	212	253267	1.018	ng		0.00
31) Terphenyl-d14	19.869	244	169807	0.959	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.393	88	11111	0.756	ng		95
3) n-Nitrosodimethylamine	3.716	42	19643	0.871	ng		97
6) bis(2-Chloroethyl)ether	7.303	93	63773	0.908	ng		95
9) Naphthalene	10.712	128	250720	0.830	ng		100
10) Hexachlorobutadiene	11.016	225	52591	0.888	ng	#	100
12) 2-Methylnaphthalene	12.324	142	160385	0.807	ng		98
16) Acenaphthylene	14.207	152	190083	0.802	ng		100
17) Acenaphthene	14.562	154	137271	0.842	ng		98
18) Fluorene	15.539	166	157559	0.809	ng		100
20) 4,6-Dinitro-2-methylph...	15.615	198	2800	0.280	ng		96
21) 4-Bromophenyl-phenylether	16.435	248	47965	0.877	ng	#	75
22) Hexachlorobenzene	16.557	284	54899	0.896	ng		98
23) Atrazine	16.703	200	28424	0.769	ng		94
24) Pentachlorophenol	16.897	266	10819	0.500	ng		99
25) Phenanthrene	17.275	178	236031	0.844	ng		100
26) Anthracene	17.372	178	193945	0.832	ng		100
28) Fluoranthene	19.298	202	256533	0.850	ng		100
30) Pyrene	19.660	202	249802	0.972	ng		100
32) Benzo(a)anthracene	21.409	228	211707	0.878	ng		99
33) Chrysene	21.462	228	224294	0.874	ng		99
34) Bis(2-ethylhexyl)phtha...	21.346	149	102712	1.207	ng		98
36) Indeno(1,2,3-cd)pyrene	26.252	276	109536	0.556	ng		99
37) Benzo(b)fluoranthene	23.075	252	189777	1.031	ng		99
38) Benzo(k)fluoranthene	23.123	252	174004	0.946	ng		99
39) Benzo(a)pyrene	23.691	252	144777	0.889	ng		100
40) Dibenzo(a,h)anthracene	26.269	278	82334	0.519	ng		99
41) Benzo(g,h,i)perylene	26.998	276	104849	0.613	ng		99

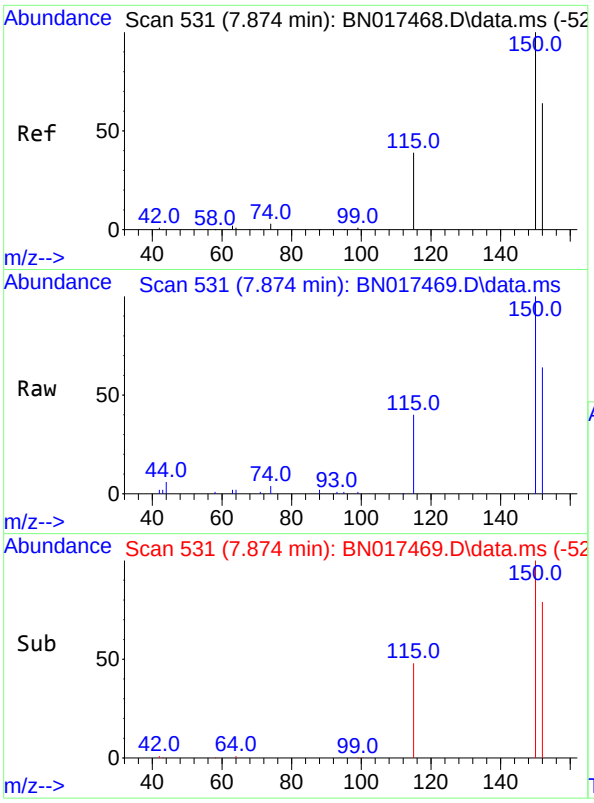
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111621\
Data File : BN017469.D
Acq On : 16 Nov 2021 10:42
Operator : CG/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 16 11:43:12 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN111621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 16 11:40:41 2021
Response via : Initial Calibration



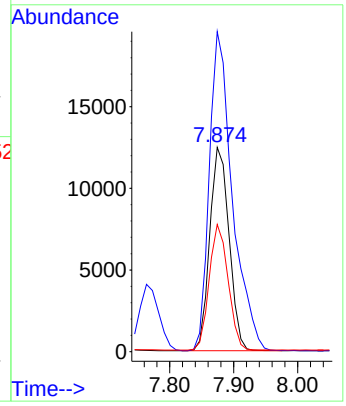


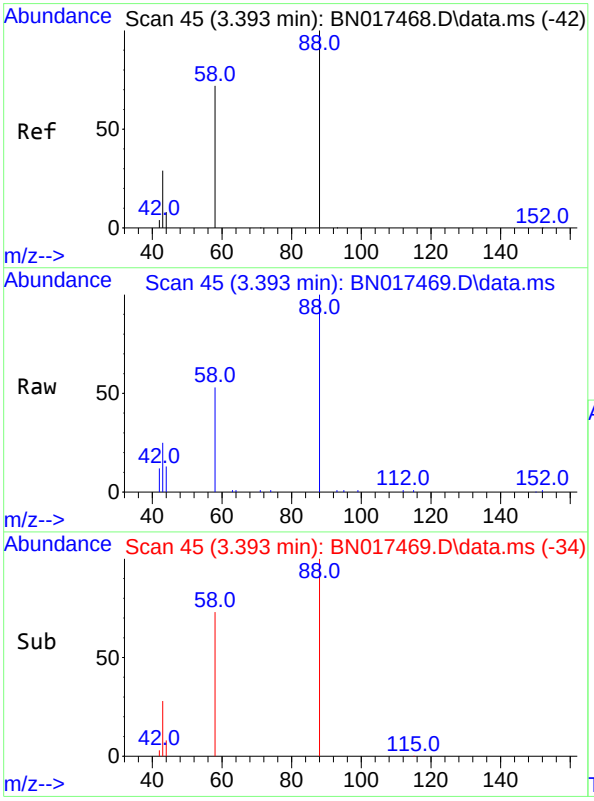
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 26243

Ion	Ratio	Lower	Upper
152	100		
150	156.6	123.0	184.4
115	62.2	45.6	68.4

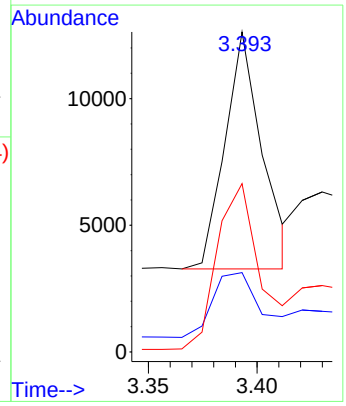


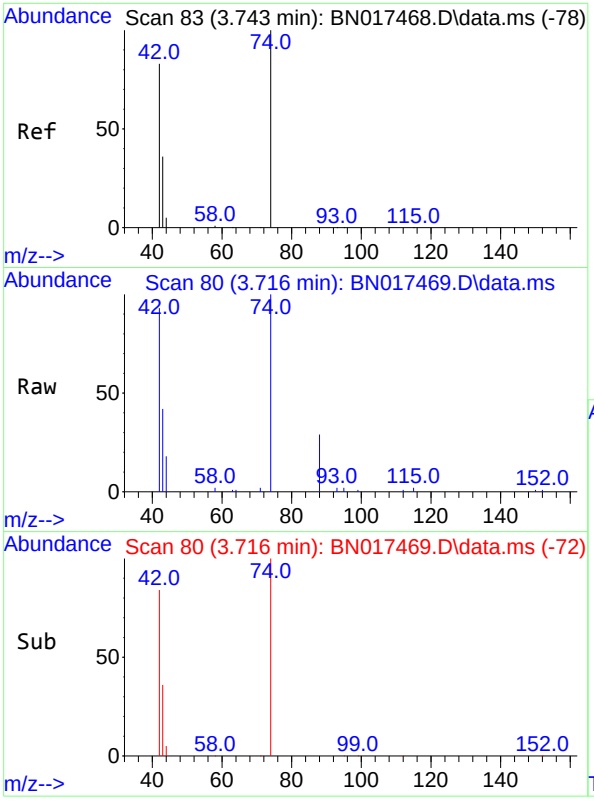


#2
1,4-Dioxane
Concen: 0.756 ng
RT: 3.393 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion: 88 Resp: 11111

Ion	Ratio	Lower	Upper
88	100		
43	35.3	24.7	37.1
58	81.9	63.0	94.6



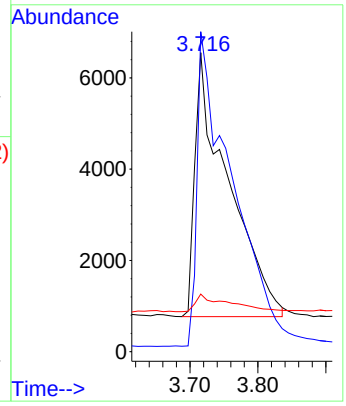


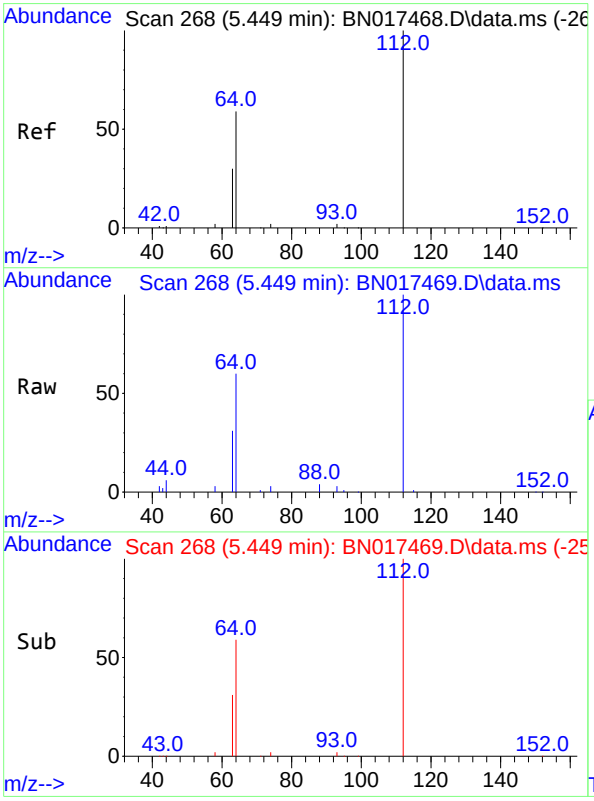
#3
n-Nitrosodimethylamine
Concen: 0.871 ng
RT: 3.716 min Scan# 8
Delta R.T. -0.027 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 19643

Ion	Ratio	Lower	Upper
42	100		
74	125.3	97.8	146.6
44	6.7	5.5	8.3

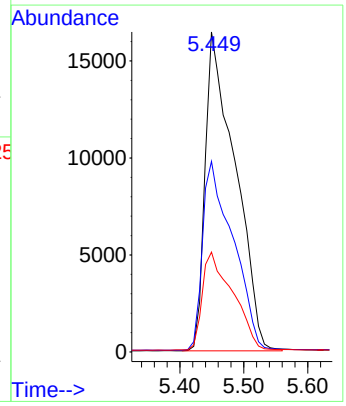


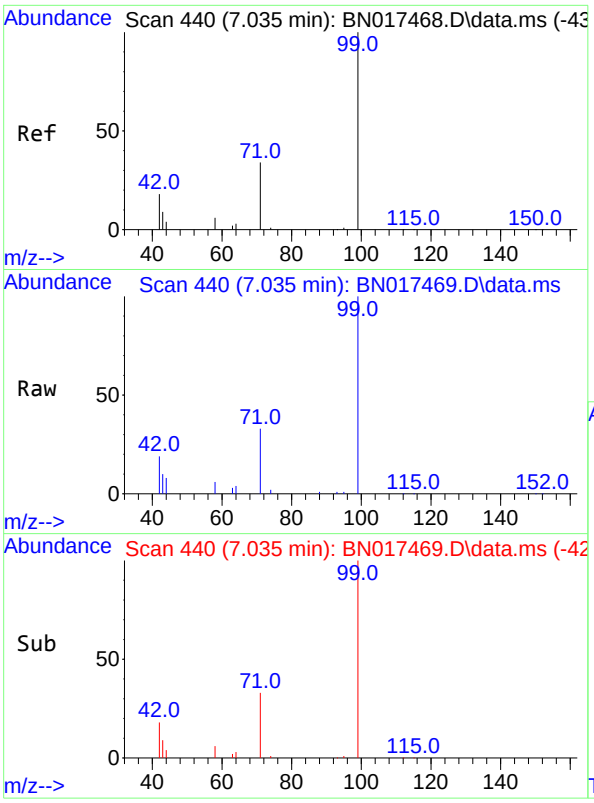


#4
2-Fluorophenol
Concen: 0.885 ng
RT: 5.449 min Scan# 268
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:112 Resp: 53532

Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.6	71.4
63	31.3	24.6	37.0



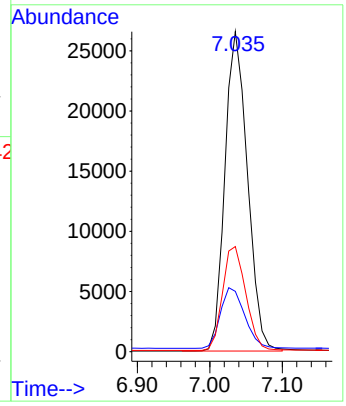


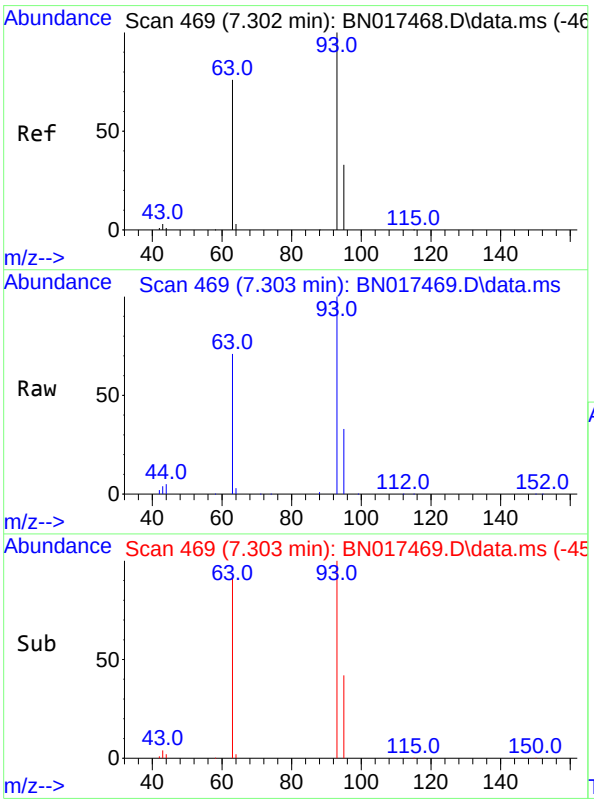
#5
Phenol-d6
Concen: 0.861 ng
RT: 7.035 min Scan# 44
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 57360

Ion	Ratio	Lower	Upper
99	100		
42	20.4	17.0	25.6
71	33.5	24.8	37.2

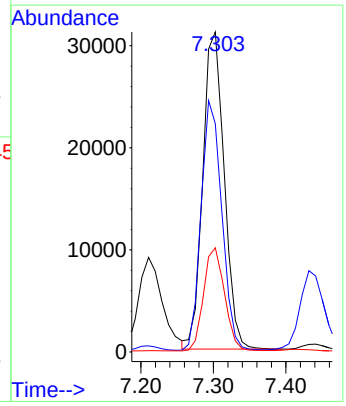


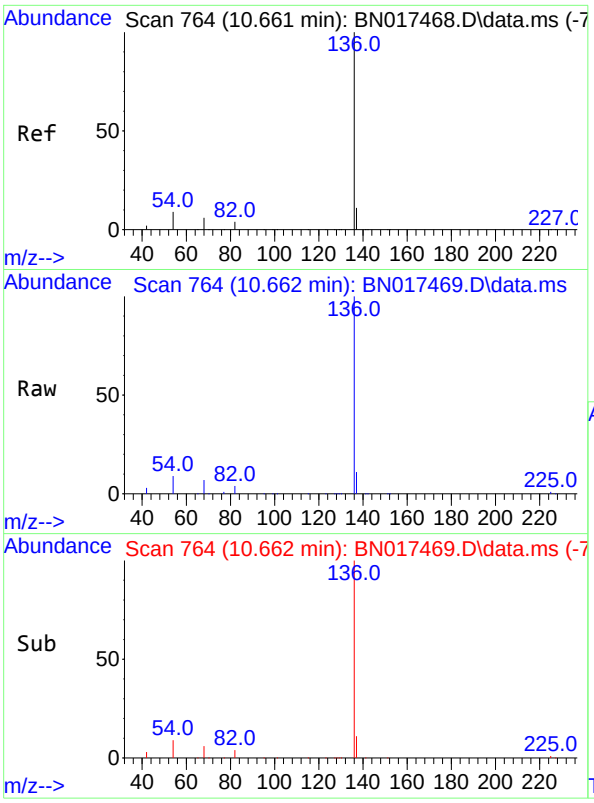


#6
bis(2-Chloroethyl)ether
Concen: 0.908 ng
RT: 7.303 min Scan# 469
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion: 93 Resp: 63773

Ion	Ratio	Lower	Upper
93	100		
63	76.2	65.8	98.6
95	31.9	26.6	39.8



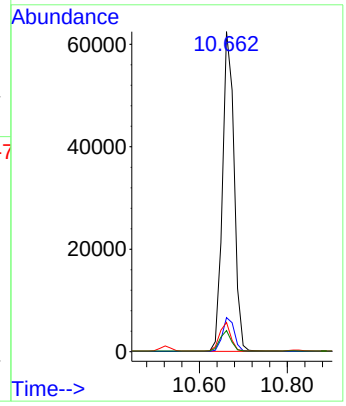


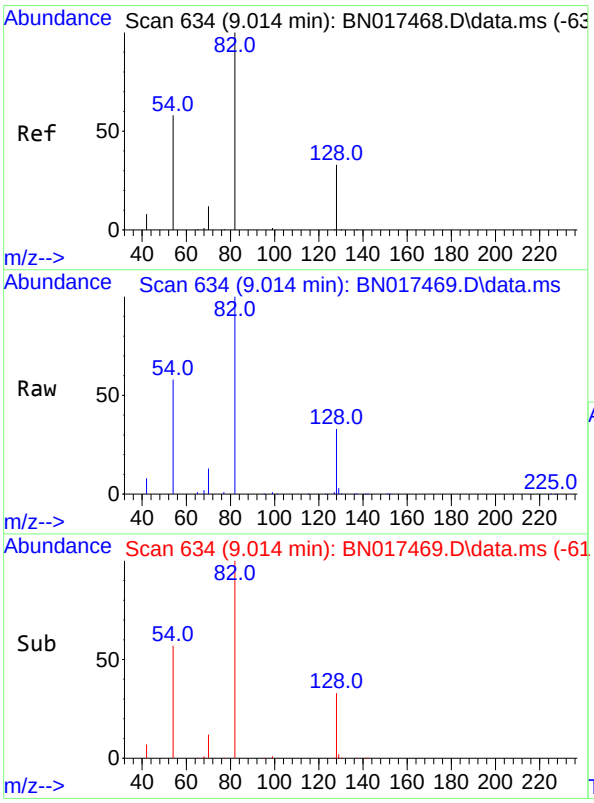
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.662 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 114616

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	9.1	4.0	6.0#
68	6.6	3.0	4.6#

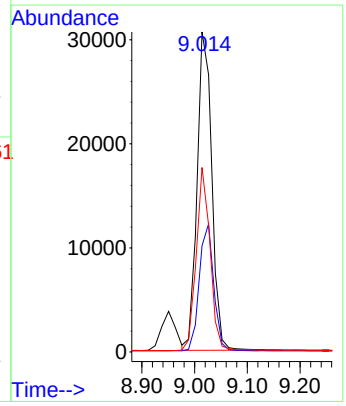


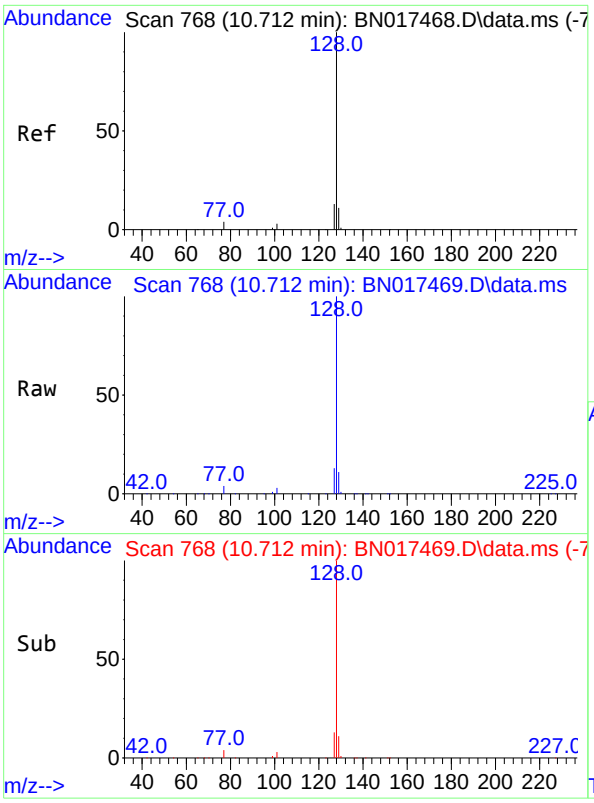


#8
Nitrobenzene-d5
Concen: 0.864 ng
RT: 9.014 min Scan# 634
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion: 82 Resp: 59396

Ion	Ratio	Lower	Upper
82	100		
128	33.2	27.7	41.5
54	57.6	49.2	73.8



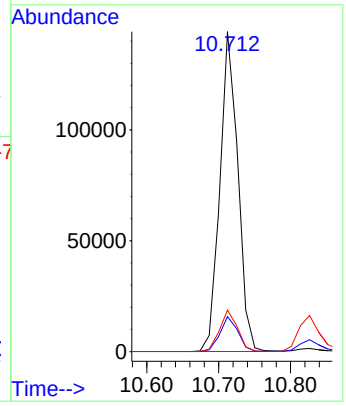


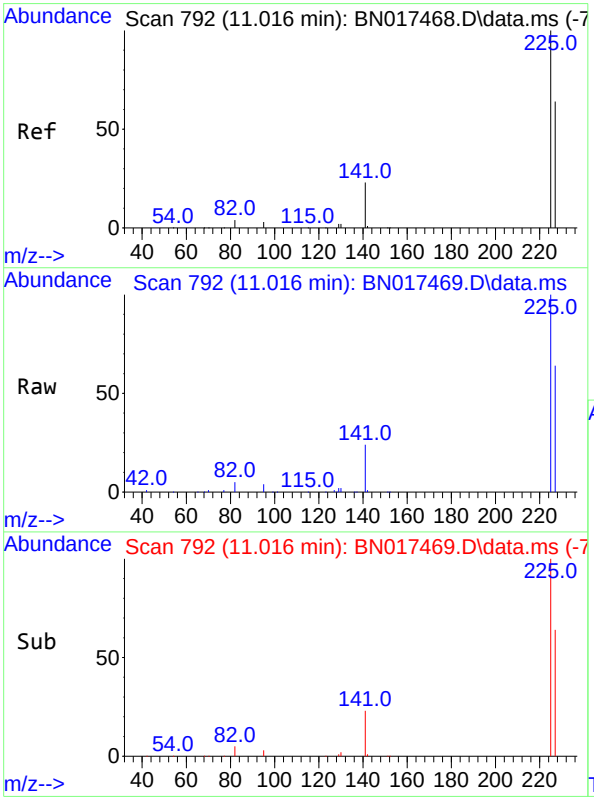
#9
Naphthalene
Concen: 0.830 ng
RT: 10.712 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 250720

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.0	10.6	15.8

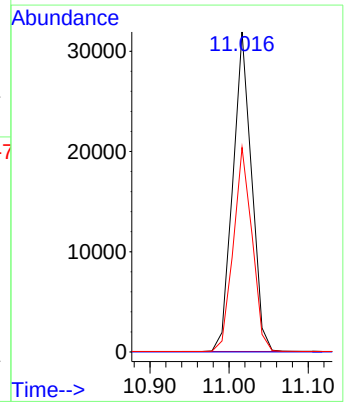


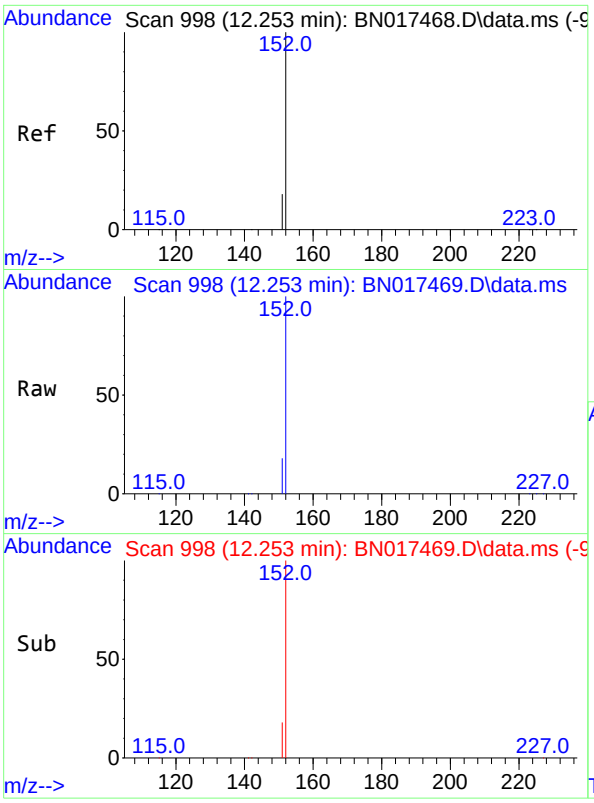


#10
Hexachlorobutadiene
Concen: 0.888 ng
RT: 11.016 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:225 Resp: 52591

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.1	76.7



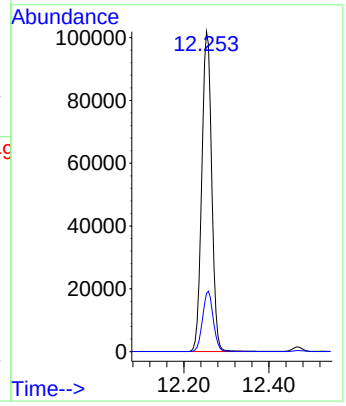


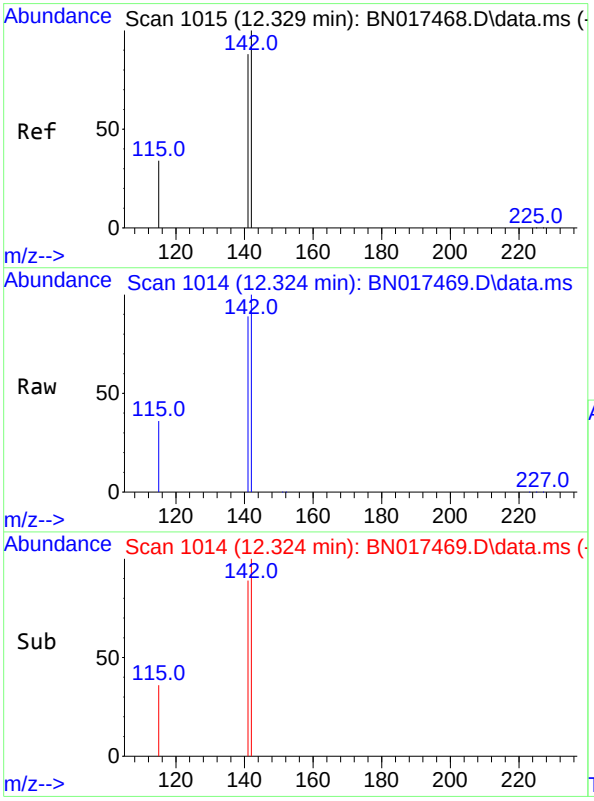
#11
2-Methylnaphthalene-d10
Concen: 0.973 ng
RT: 12.253 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 164263

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4

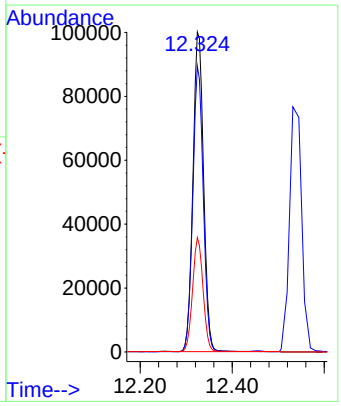


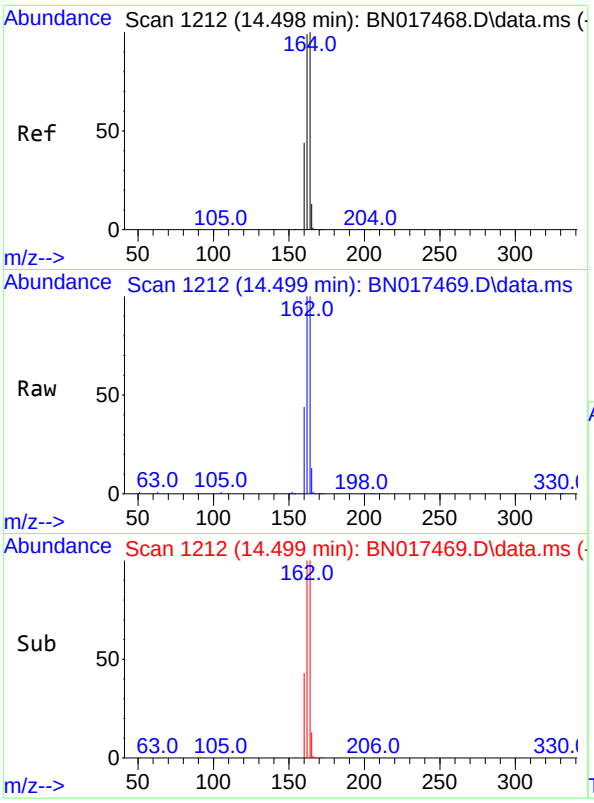


#12
2-Methylnaphthalene
Concen: 0.807 ng
RT: 12.324 min Scan# 1014
Delta R.T. -0.004 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:142 Resp: 160385

Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.6	106.0
115	35.7	25.8	38.6



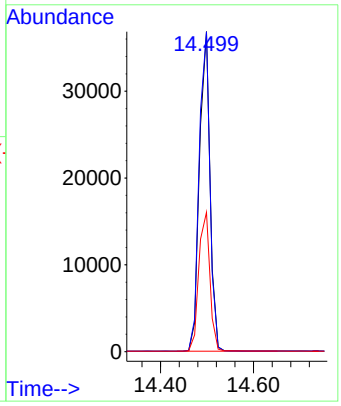


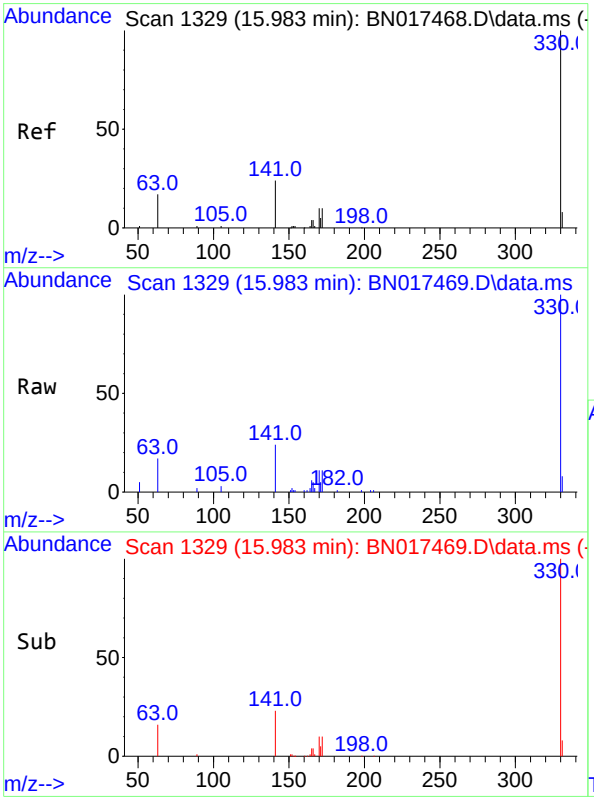
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 58110

Ion	Ratio	Lower	Upper
164	100		
162	100.0	81.4	122.2
160	43.6	36.8	55.2

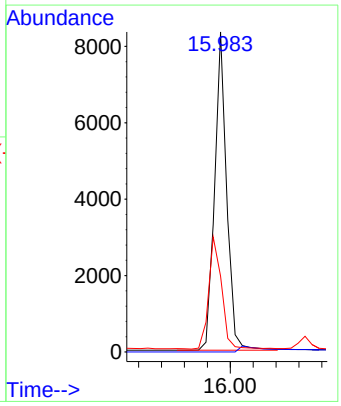


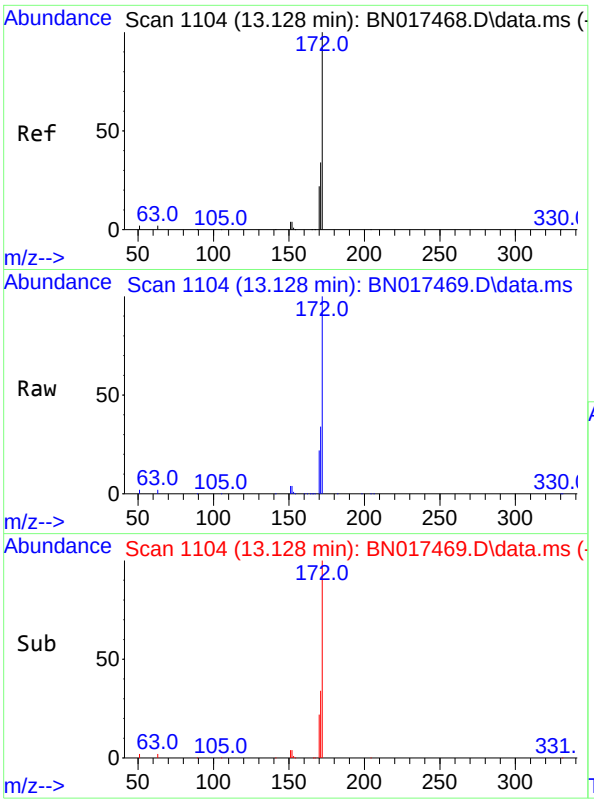


#14
2,4,6-Tribromophenol
Concen: 0.554 ng
RT: 15.983 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:330 Resp: 12012

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.7	28.9	43.3



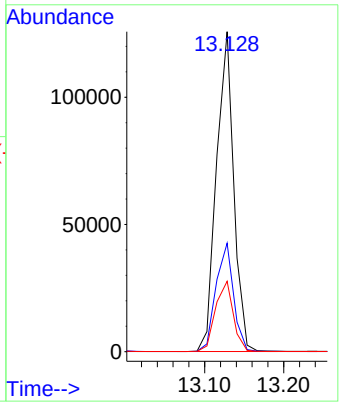


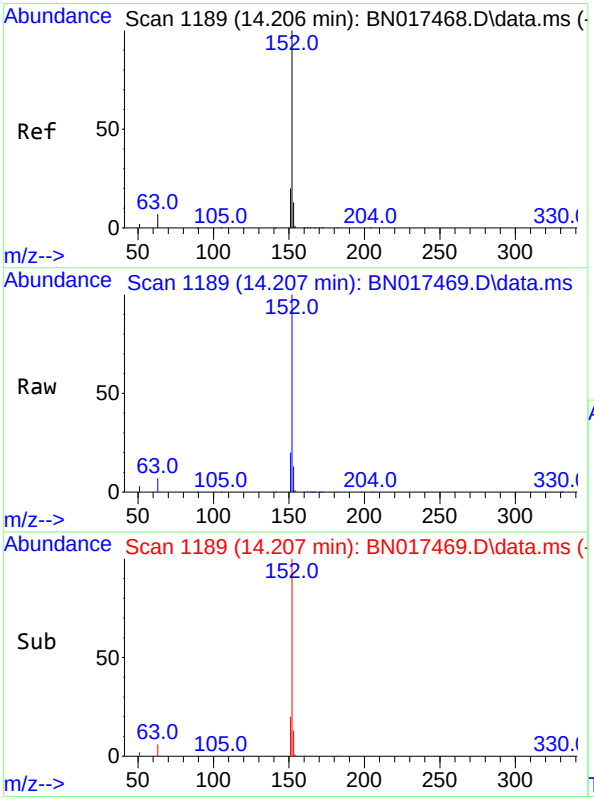
#15
2-Fluorobiphenyl
Concen: 0.865 ng
RT: 13.128 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 191213

Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.7	43.1
170	22.0	19.4	29.2

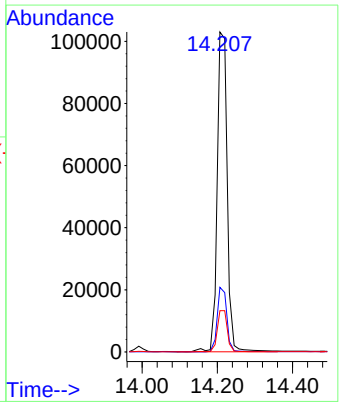


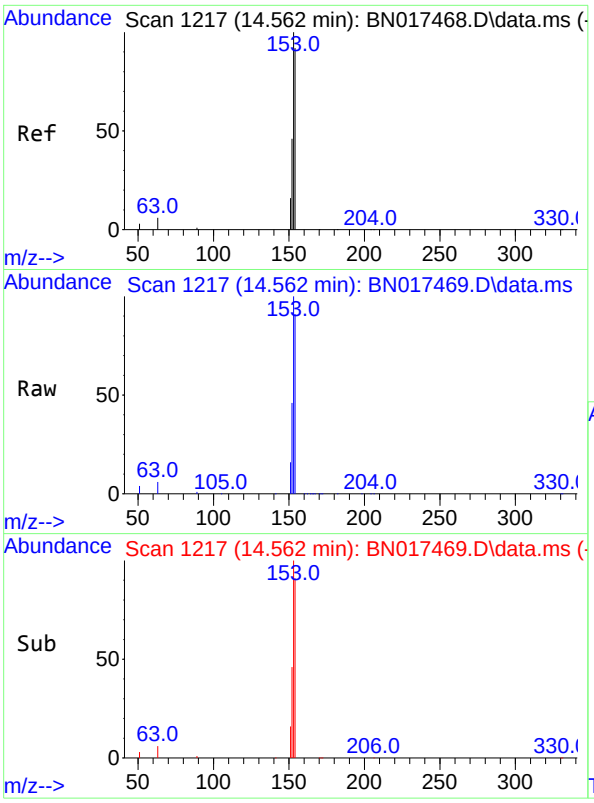


#16
Acenaphthylene
Concen: 0.802 ng
RT: 14.207 min Scan# 1189
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:152 Resp: 190083

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.5	23.3
153	13.0	10.4	15.6



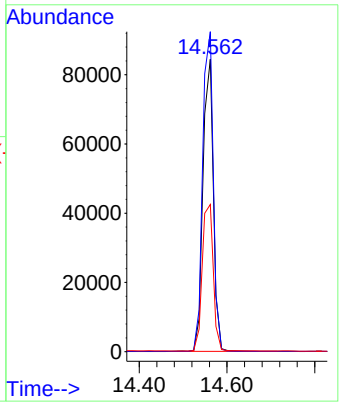


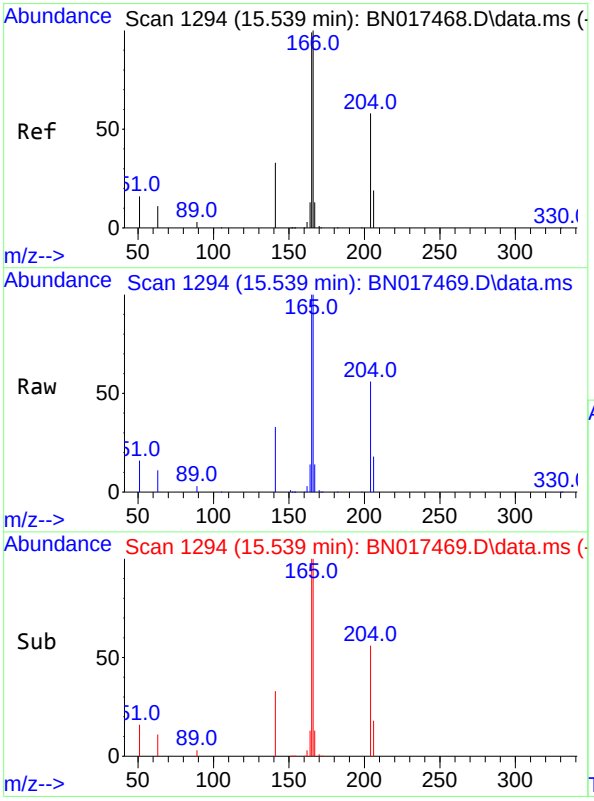
#17
Acenaphthene
Concen: 0.842 ng
RT: 14.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 137271

Ion	Ratio	Lower	Upper
154	100		
153	112.4	91.2	136.8
152	53.7	44.3	66.5

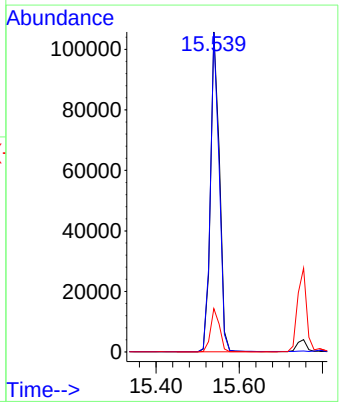


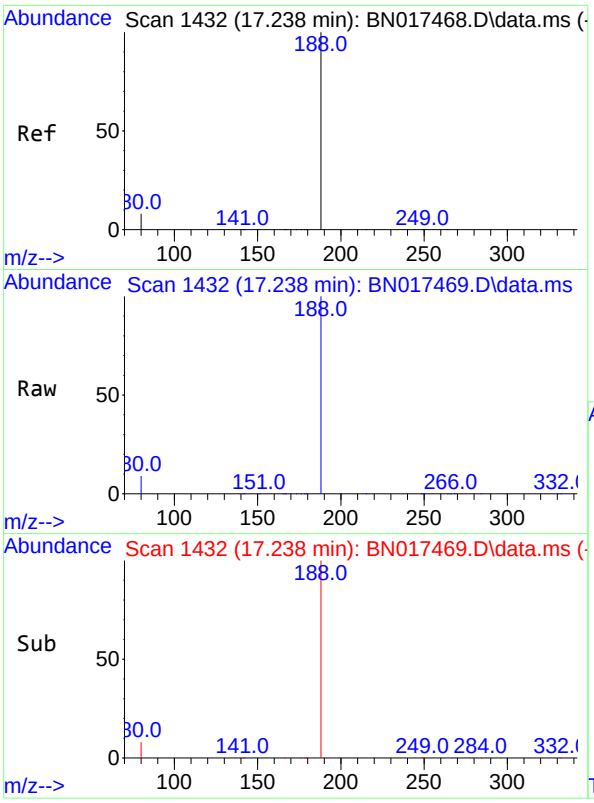


#18
Fluorene
Concen: 0.809 ng
RT: 15.539 min Scan# 1294
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:166 Resp: 157559

Ion	Ratio	Lower	Upper
166	100		
165	97.8	77.9	116.9
167	13.5	10.9	16.3



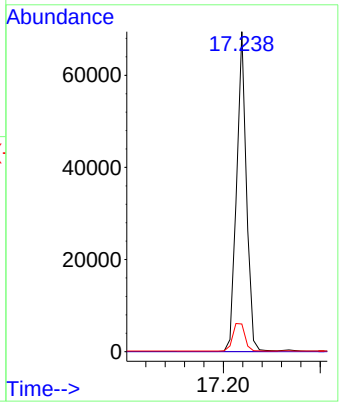


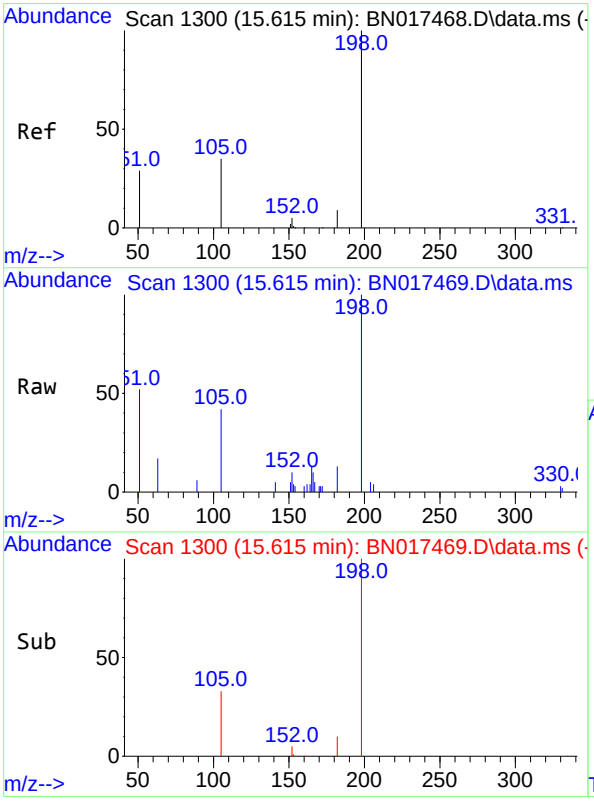
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.238 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 97596

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	6.1	9.1

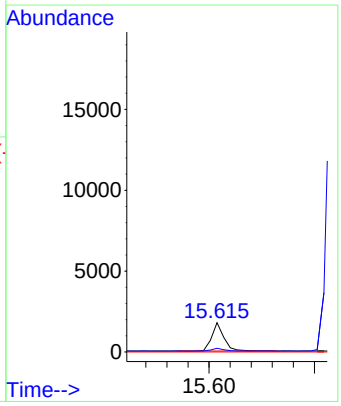


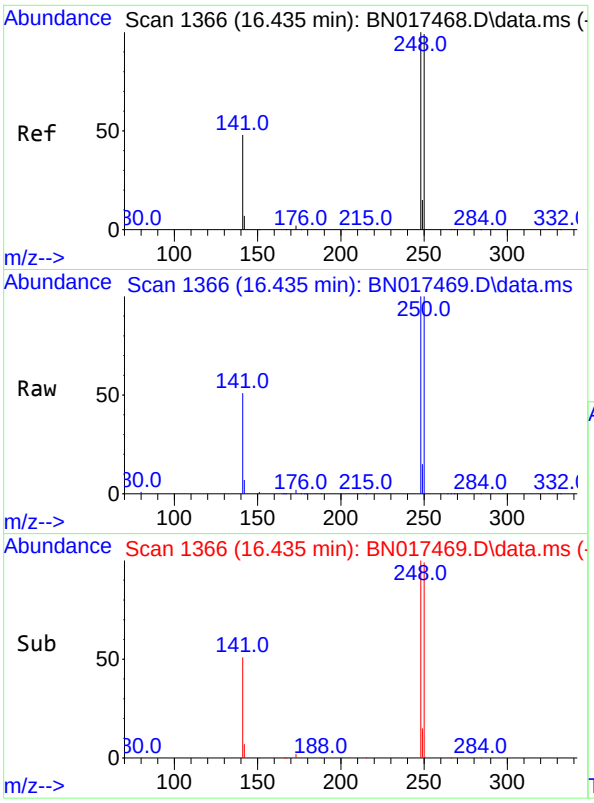


#20
4,6-Dinitro-2-methylphenol
Concen: 0.280 ng
RT: 15.615 min Scan# 1300
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:198 Resp: 2800

Ion	Ratio	Lower	Upper
198	100		
182	12.8	11.4	17.2
77	0.0	0.0	0.0



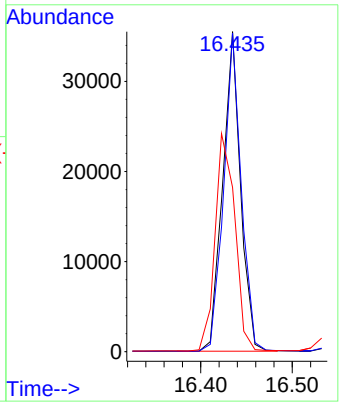


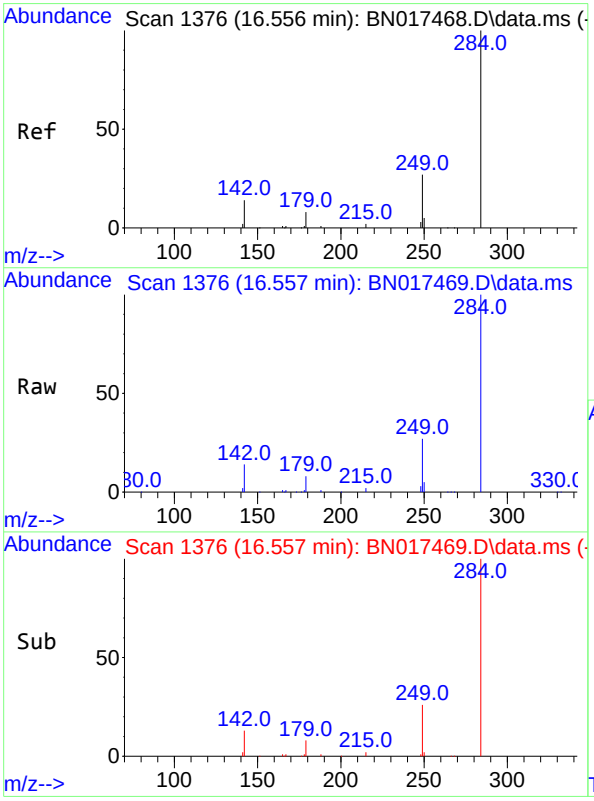
#21
4-Bromophenyl-phenylether
Concen: 0.877 ng
RT: 16.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 47965

Ion	Ratio	Lower	Upper
248	100		
250	99.5	71.8	107.8
141	51.4	70.9	106.3#

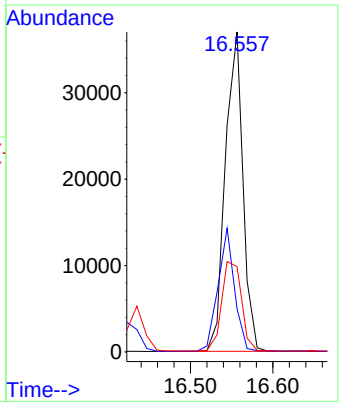


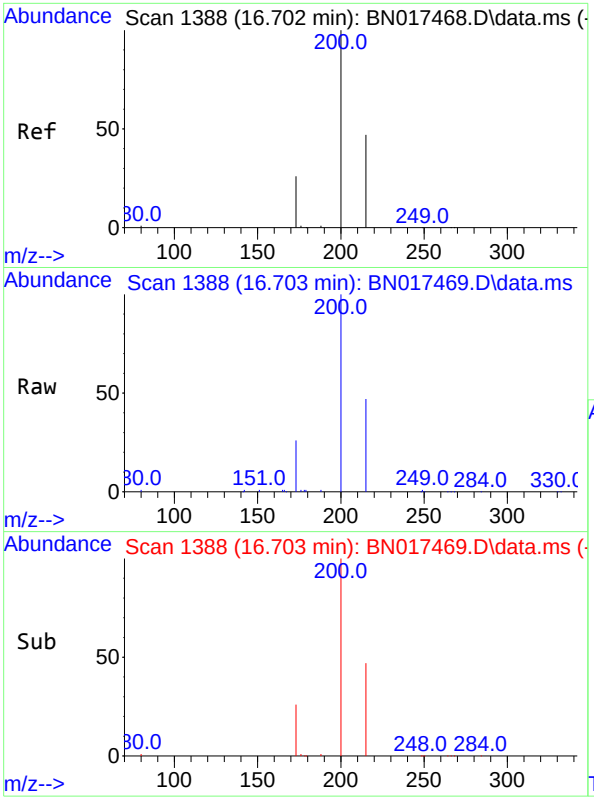


#22
Hexachlorobenzene
Concen: 0.896 ng
RT: 16.557 min Scan# 1376
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:284 Resp: 54899

Ion	Ratio	Lower	Upper
284	100		
142	36.1	28.2	42.2
249	31.5	24.4	36.6



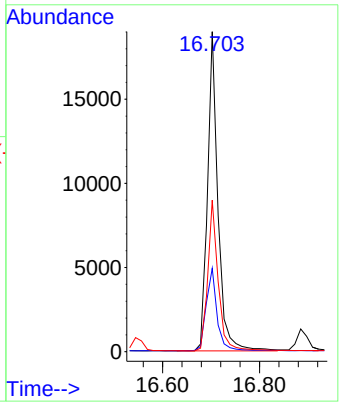


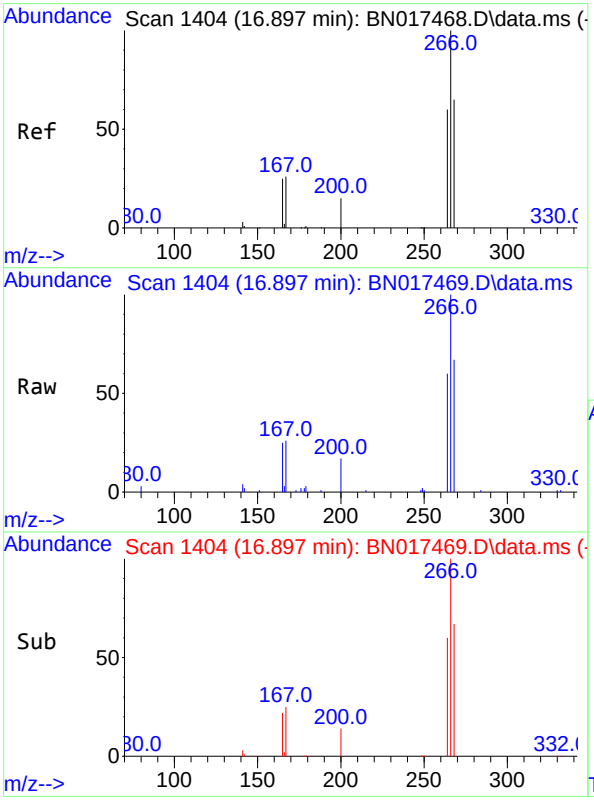
#23
Atrazine
Concen: 0.769 ng
RT: 16.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 28424

Ion	Ratio	Lower	Upper
200	100		
173	26.0	17.6	26.4
215	47.3	40.2	60.4

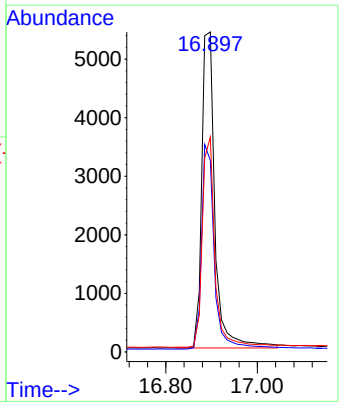


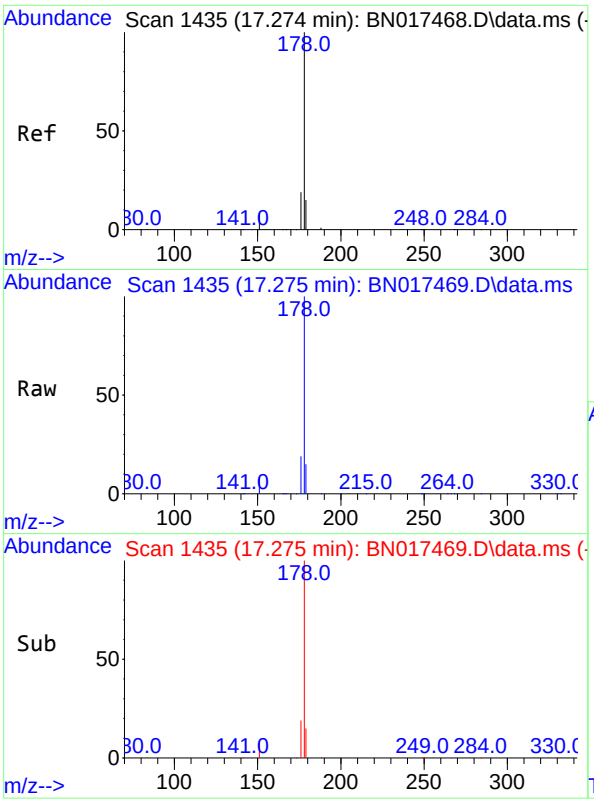


#24
Pentachlorophenol
Concen: 0.500 ng
RT: 16.897 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:266 Resp: 10819

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.8	74.8
268	63.2	51.3	76.9



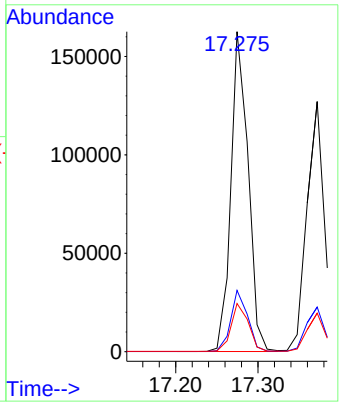


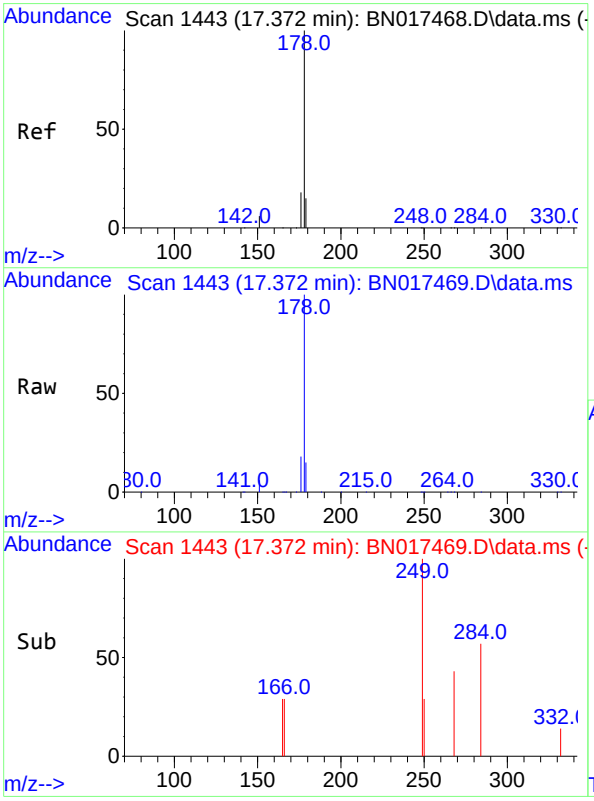
#25
Phenanthrene
Concen: 0.844 ng
RT: 17.275 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 236031

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	12.3	18.5

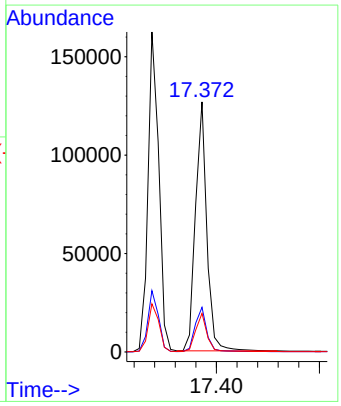


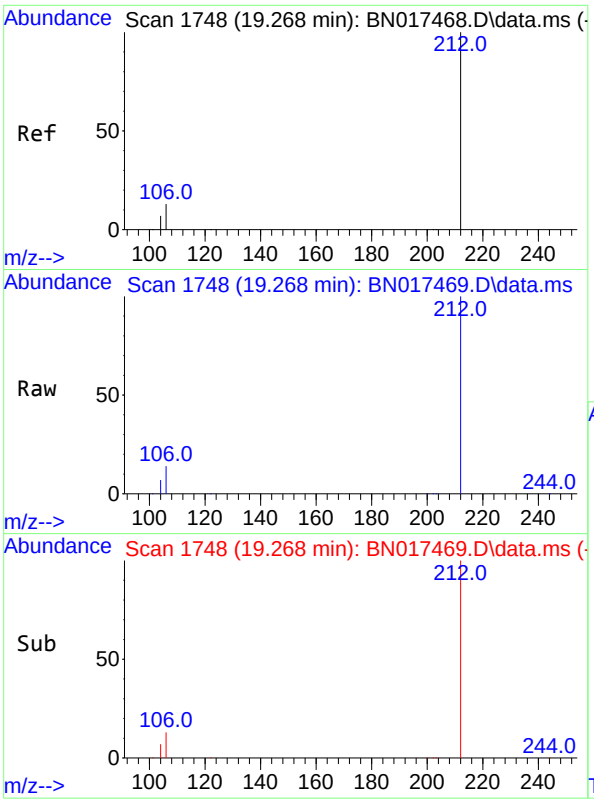


#26
Anthracene
Concen: 0.832 ng
RT: 17.372 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:178 Resp: 193945

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.2	12.2	18.4



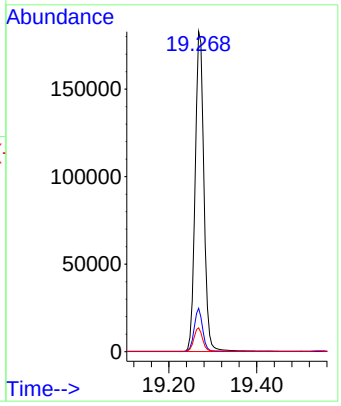


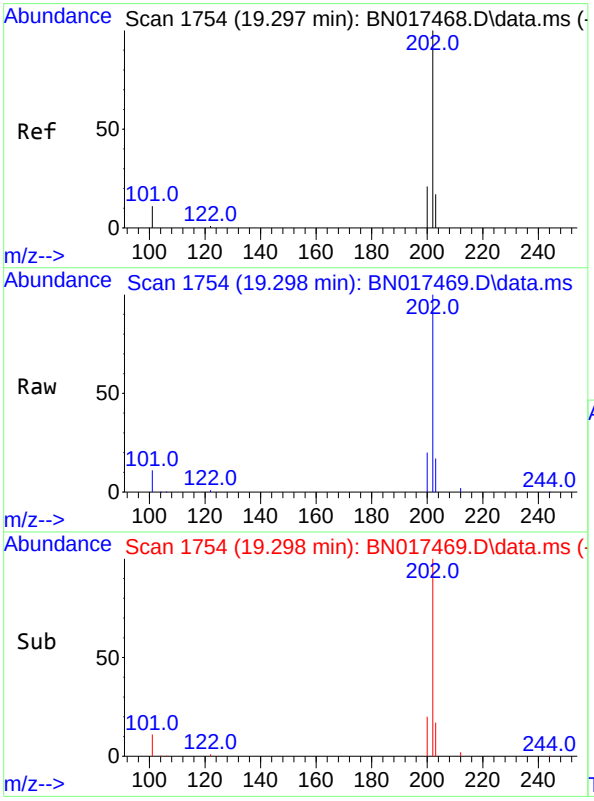
#27
Fluoranthene-d10
Concen: 1.018 ng
RT: 19.268 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 253267

Ion	Ratio	Lower	Upper
212	100		
106	13.0	10.5	15.7
104	7.2	5.8	8.6

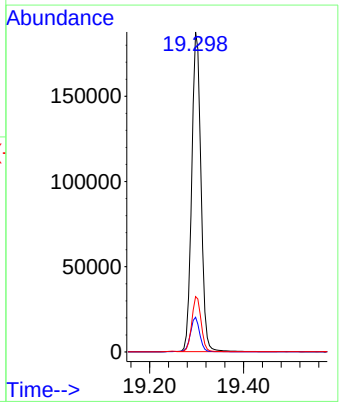


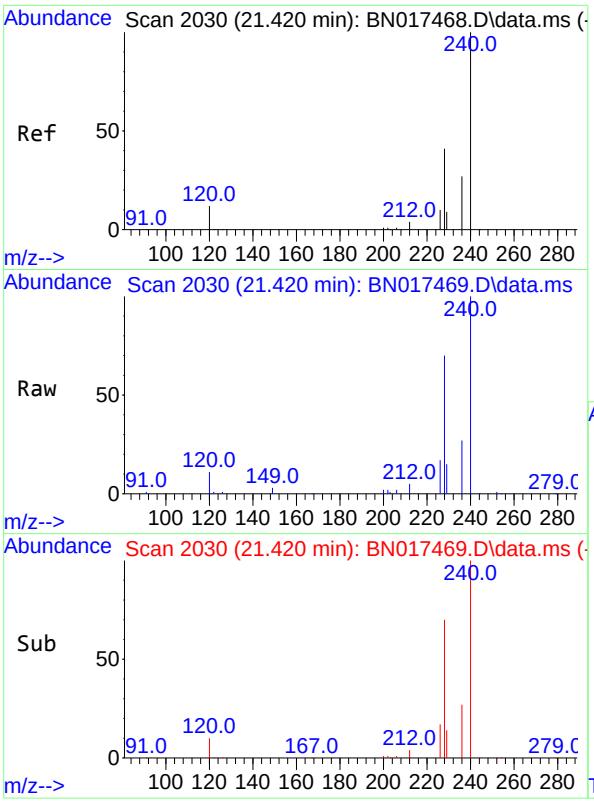


#28
Fluoranthene
Concen: 0.850 ng
RT: 19.298 min Scan# 1754
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:202 Resp: 256533

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.9	13.3
203	17.3	13.8	20.6



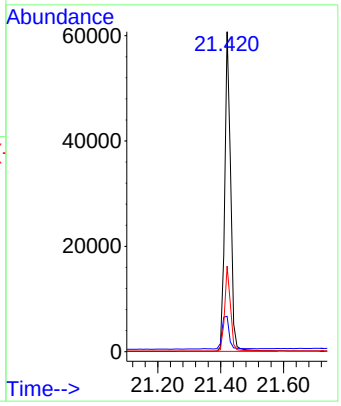


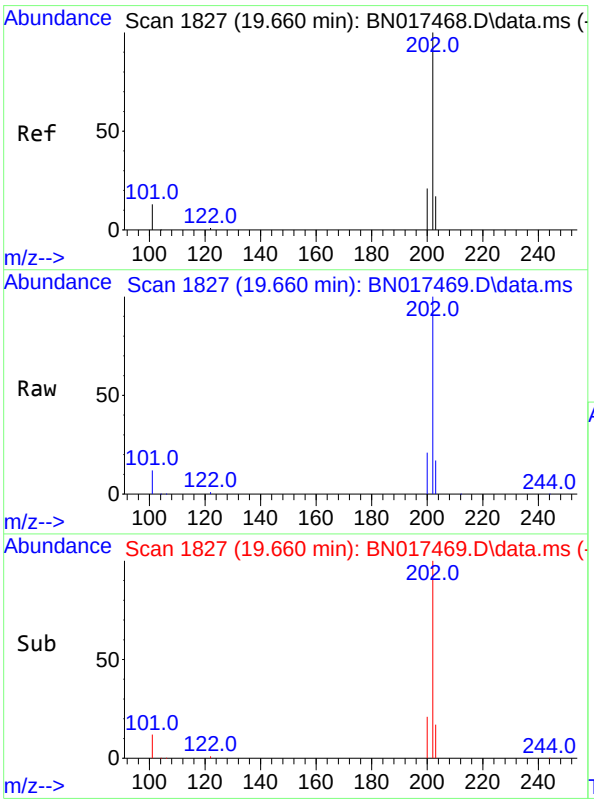
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 79507

Ion	Ratio	Lower	Upper
240	100		
120	11.0	4.2	6.2#
236	26.7	20.0	30.0

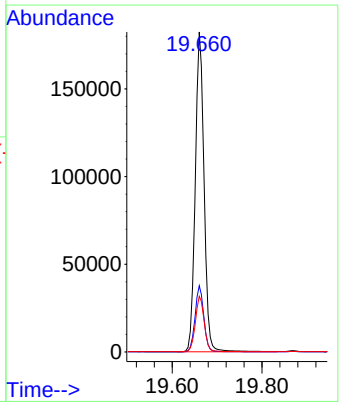


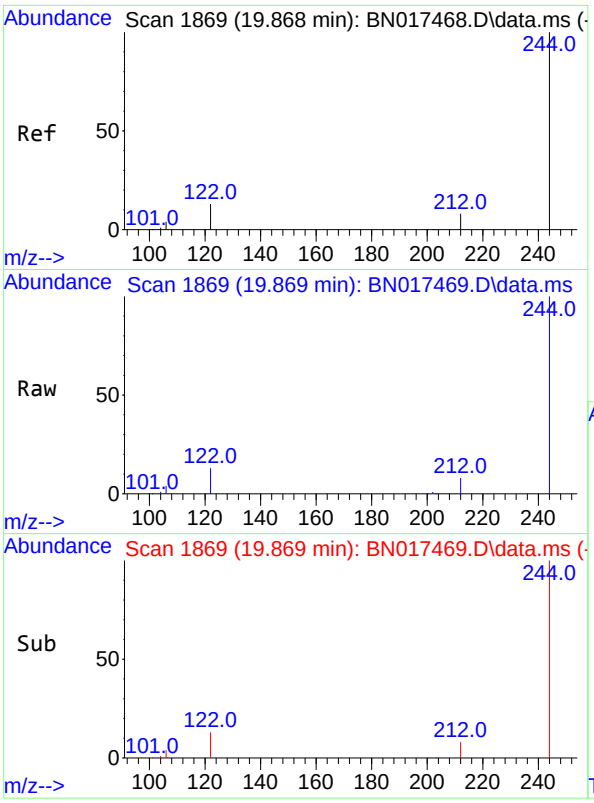


#30
Pyrene
Concen: 0.972 ng
RT: 19.660 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:202 Resp: 249802

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	17.5	14.0	21.0



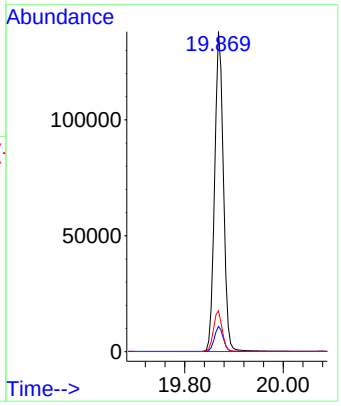


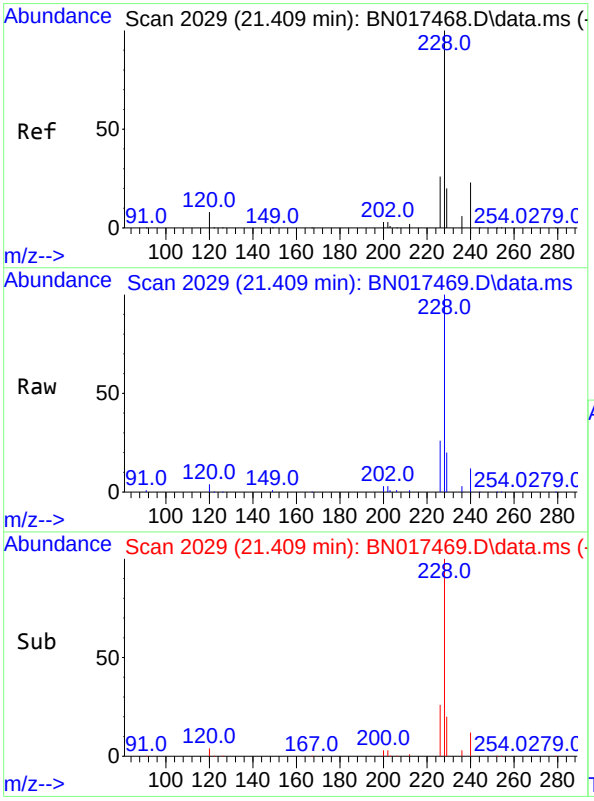
#31
Terphenyl-d14
Concen: 0.959 ng
RT: 19.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 169807

Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.7	8.5
122	12.8	8.6	13.0

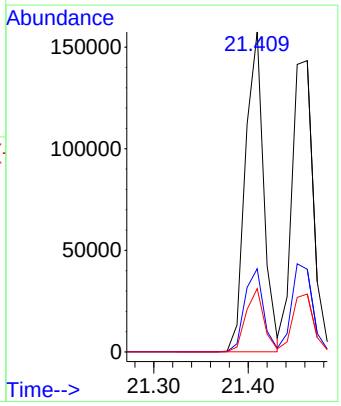


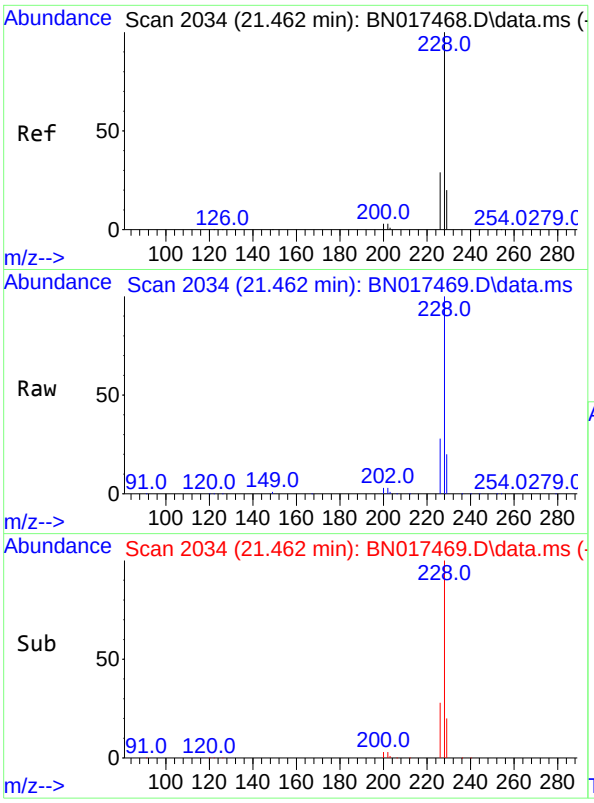


#32
Benzo(a)anthracene
Concen: 0.878 ng
RT: 21.409 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:228 Resp: 211707

Ion	Ratio	Lower	Upper
228	100		
226	26.0	21.3	31.9
229	19.8	15.7	23.5



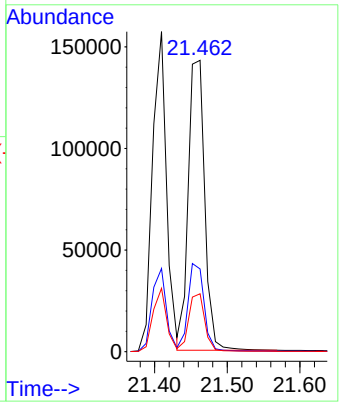


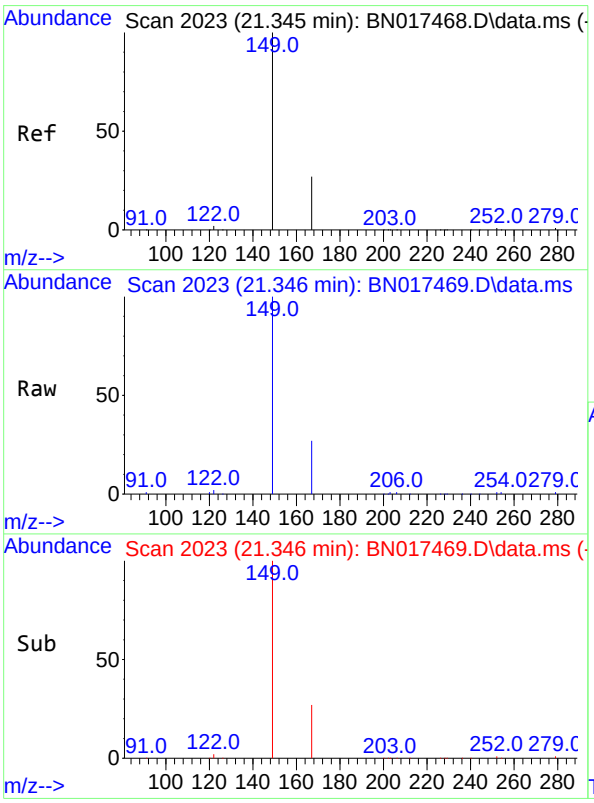
#33
Chrysene
Concen: 0.874 ng
RT: 21.462 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 224294

Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.3	34.9
229	19.9	15.6	23.4

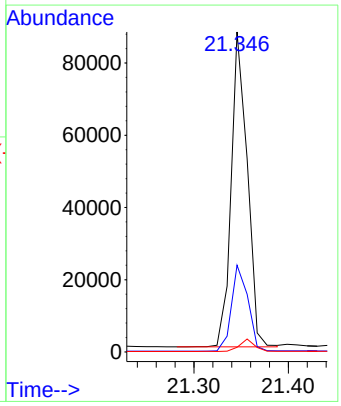


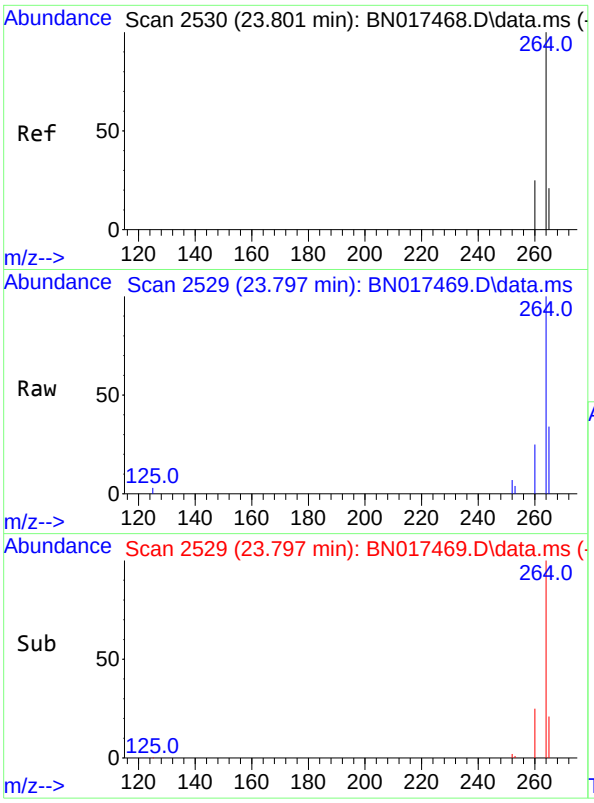


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.207 ng
RT: 21.346 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:149 Resp: 102712

Ion	Ratio	Lower	Upper
149	100		
167	28.2	21.8	32.6
279	3.6	3.4	5.0



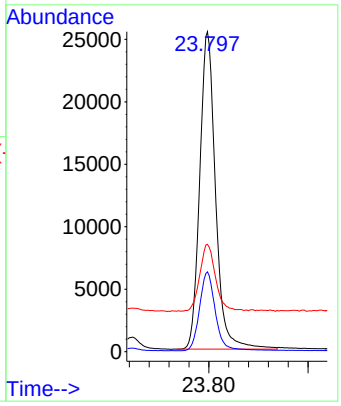


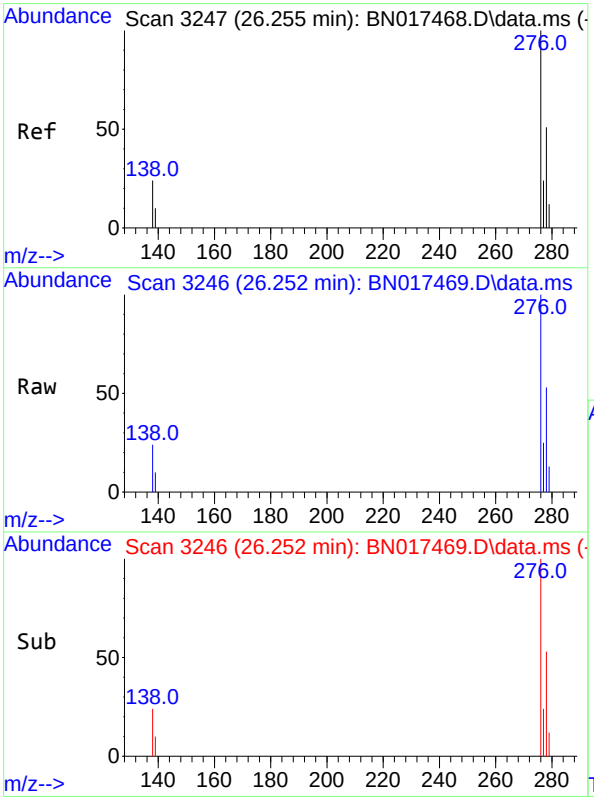
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.797 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 56282

Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.4	29.2
265	33.6	18.6	28.0#

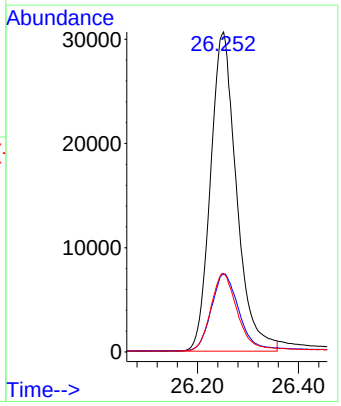


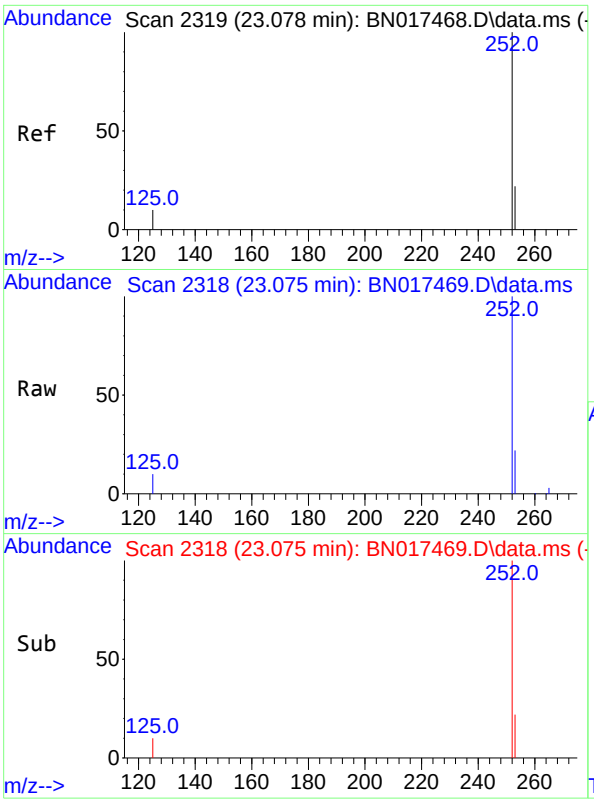


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.556 ng
RT: 26.252 min Scan# 3246
Delta R.T. -0.003 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:276 Resp: 109536

Ion	Ratio	Lower	Upper
276	100		
138	25.5	19.7	29.5
277	24.8	20.0	30.0



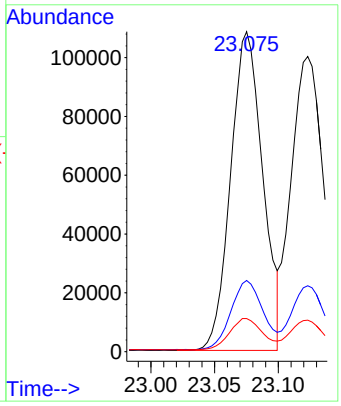


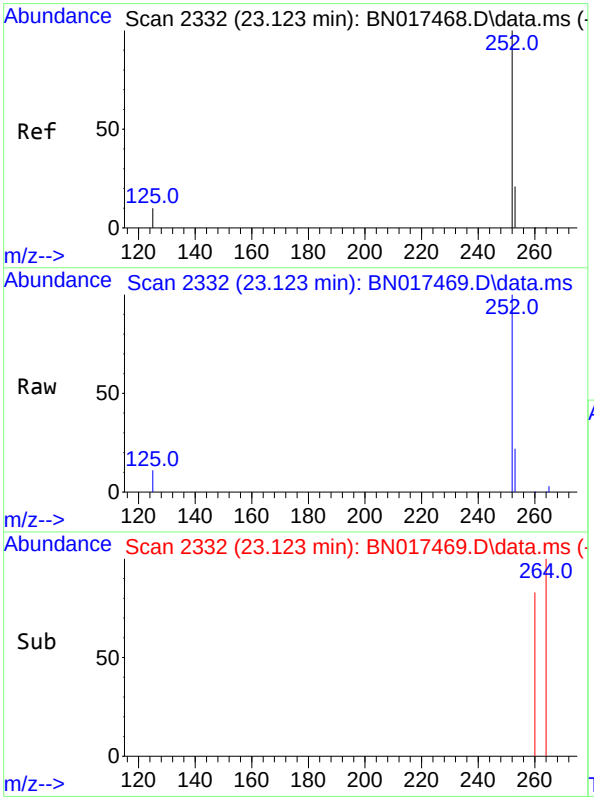
#37
Benzo(b)fluoranthene
Concen: 1.031 ng
RT: 23.075 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 189777

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	10.4	7.8	11.8

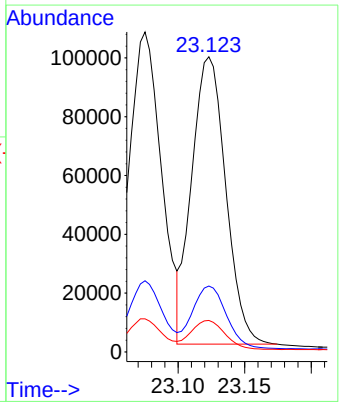


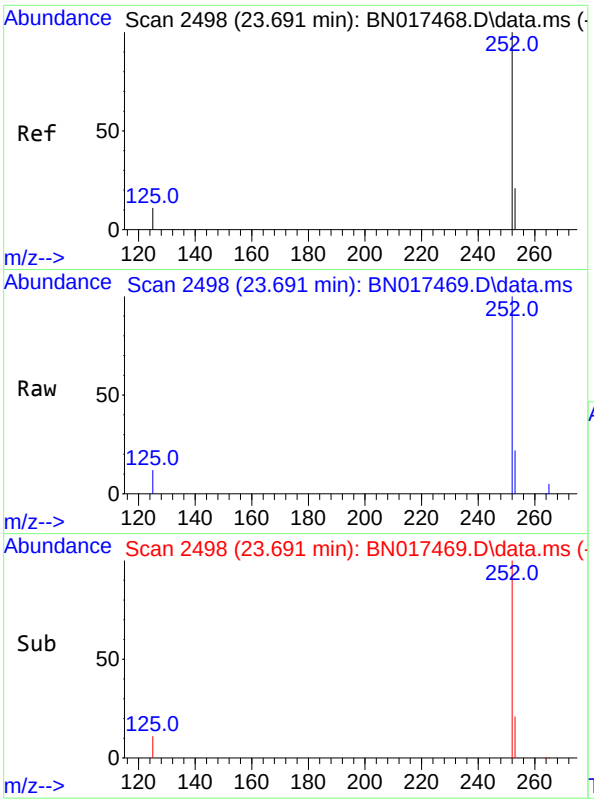


#38
Benzo(k)fluoranthene
Concen: 0.946 ng
RT: 23.123 min Scan# 2332
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:252 Resp: 174004

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	10.7	8.2	12.2



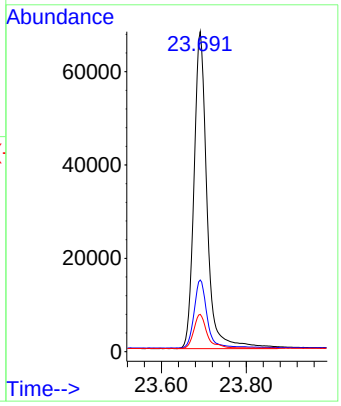


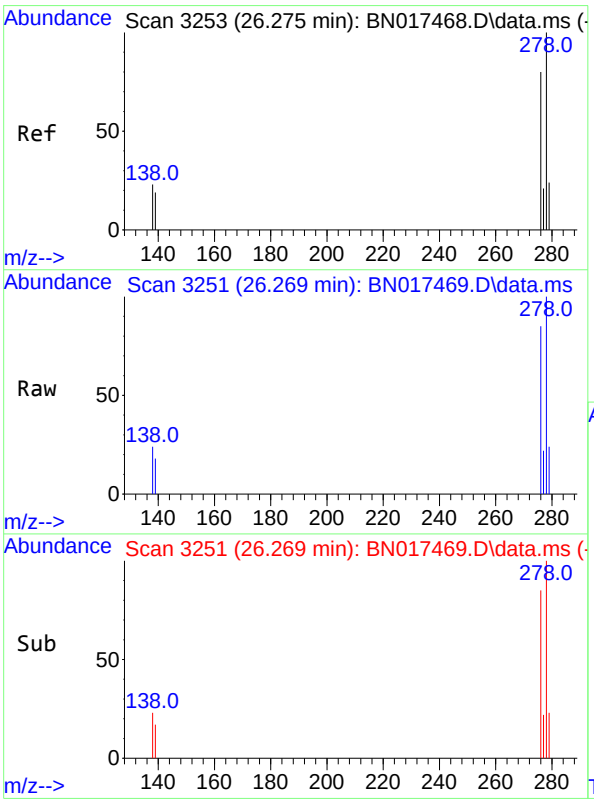
#39
Benzo(a)pyrene
Concen: 0.889 ng
RT: 23.691 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 144777

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	11.7	9.2	13.8

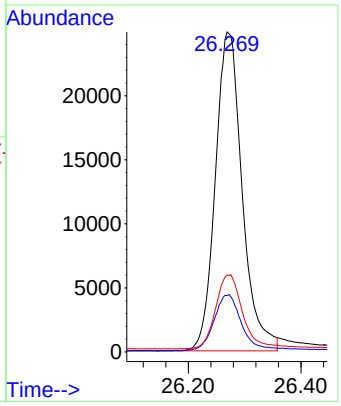


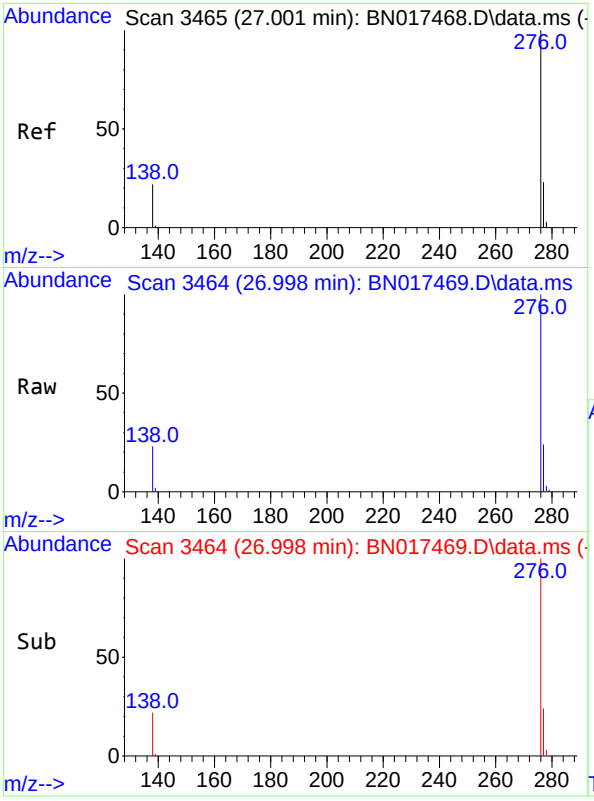


#40
Dibenzo(a,h)anthracene
Concen: 0.519 ng
RT: 26.269 min Scan# 3251
Delta R.T. -0.007 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Tgt Ion:278 Resp: 82334

Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.0	19.6
279	24.1	19.2	28.8





#41
Benzo(g,h,i)perylene
Concen: 0.613 ng
RT: 26.998 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN017469.D
Acq: 16 Nov 2021 10:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 104849

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	22.7	17.1	25.7