Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042822\
Data File : BN019546.D
Acq On : 27 Apr 2022 15:54
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Apr 28 02:20:22 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN042822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 28 02:19:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.883	152	4977	0.400	ng		0.00
7) Naphthalene-d8	10.669	136	13379	0.400	ng		0.00
13) Acenaphthene-d10	14.495	164	6723	0.400	ng		0.00
19) Phenanthrene-d10	17.236	188	12867	0.400	ng		0.00
29) Chrysene-d12	21.413	240	11291	0.400	ng		0.00
35) Perylene-d12	23.767	264	10367	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.464	112	2509	0.235	ng		0.00
5) Phenol-d6	7.038	99	2965	0.244	ng		0.00
8) Nitrobenzene-d5	9.025	82	1880	0.194	ng		0.00
11) 2-Methylnaphthalene-d10	12.257	152	3896	0.179	ng		0.00
14) 2,4,6-Tribromophenol	15.974	330	380	0.126	ng		-0.01
15) 2-Fluorobiphenyl	13.127	172	5903	0.220	ng		0.00
27) Fluoranthene-d10	19.261	212	6843	0.182	ng		0.00
31) Terphenyl-d14	19.864	244	4917	0.193	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.384	88	1124	0.172	ng		99
3) n-Nitrosodimethylamine	3.709	42	697	0.115	ng	#	93
6) bis(2-Chloroethyl)ether	7.306	93	2382	0.186	ng		99
9) Naphthalene	10.722	128	7437	0.191	ng		99
10) Hexachlorobutadiene	11.021	225	1432	0.168	ng	#	99
12) 2-Methylnaphthalene	12.329	142	4540	0.179	ng		98
16) Acenaphthylene	14.217	152	5373	0.176	ng		99
17) Acenaphthene	14.559	154	4113	0.193	ng		100
18) Fluorene	15.543	166	4978	0.178	ng		99
20) 4,6-Dinitro-2-methylph...	15.618	198	232	0.179	ng	#	68
21) 4-Bromophenyl-phenylether	16.426	248	1455	0.185	ng		99
22) Hexachlorobenzene	16.549	284	1730	0.176	ng		98
23) Atrazine	16.692	200	847	0.152	ng		97
24) Pentachlorophenol	16.887	266	532	0.276	ng		95
25) Phenanthrene	17.277	178	8238	0.203	ng		99
26) Anthracene	17.369	178	6390	0.195	ng		99
28) Fluoranthene	19.291	202	8734	0.188	ng		100
30) Pyrene	19.653	202	8886	0.166	ng		100
32) Benzo(a)anthracene	21.396	228	7643	0.218	ng		98
33) Chrysene	21.449	228	8780	0.198	ng		99
34) Bis(2-ethylhexyl)phtha...	21.342	149	3659	0.177	ng		100
36) Indeno(1,2,3-cd)pyrene	26.194	276	9285	0.232	ng		99
37) Benzo(b)fluoranthene	23.054	252	8122	0.204	ng	#	87
38) Benzo(k)fluoranthene	23.101	252	7939	0.186	ng	#	85
39) Benzo(a)pyrene	23.665	252	6092	0.173	ng	#	83
40) Dibenzo(a,h)anthracene	26.205	278	7510	0.251	ng	#	92
41) Benzo(g,h,i)perylene	26.928	276	8098	0.197	ng		95

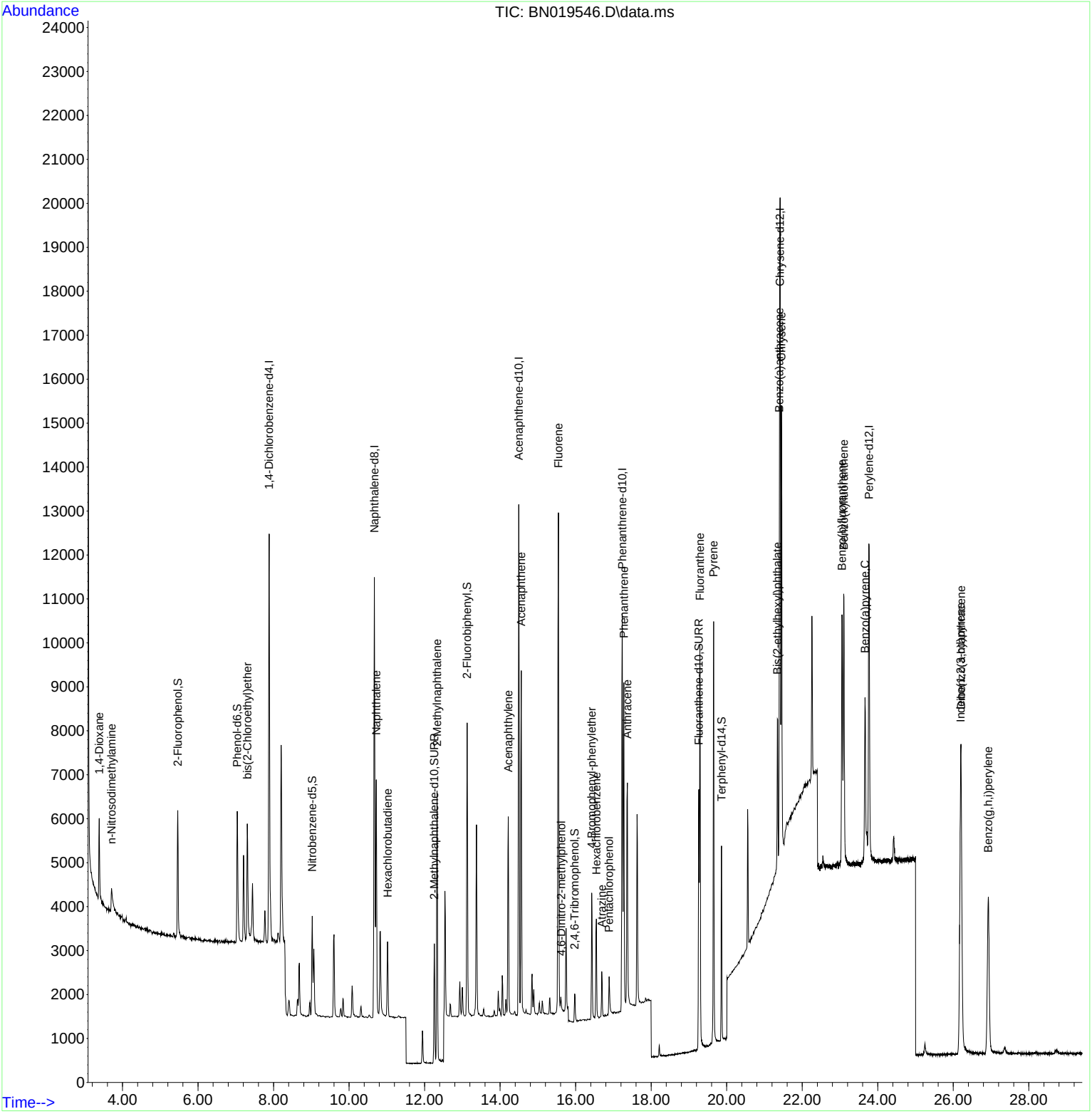
(#) = qualifier out of range (m) = manual integration (+) = signals summed

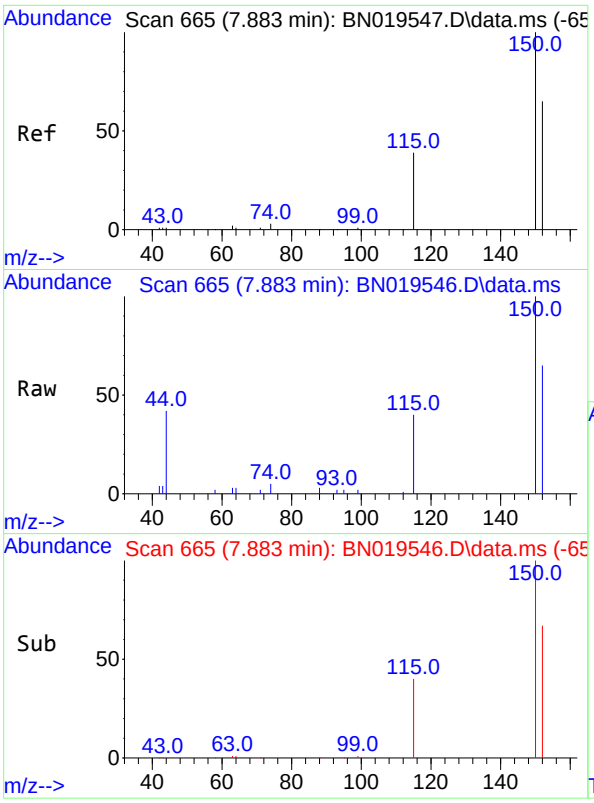
Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042822\
Data File : BN019546.D
Acq On : 27 Apr 2022 15:54
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Apr 28 02:20:22 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN042822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 28 02:19:34 2022
Response via : Initial Calibration



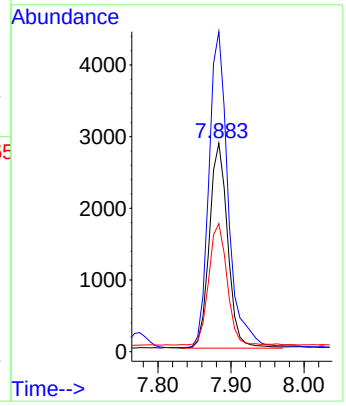


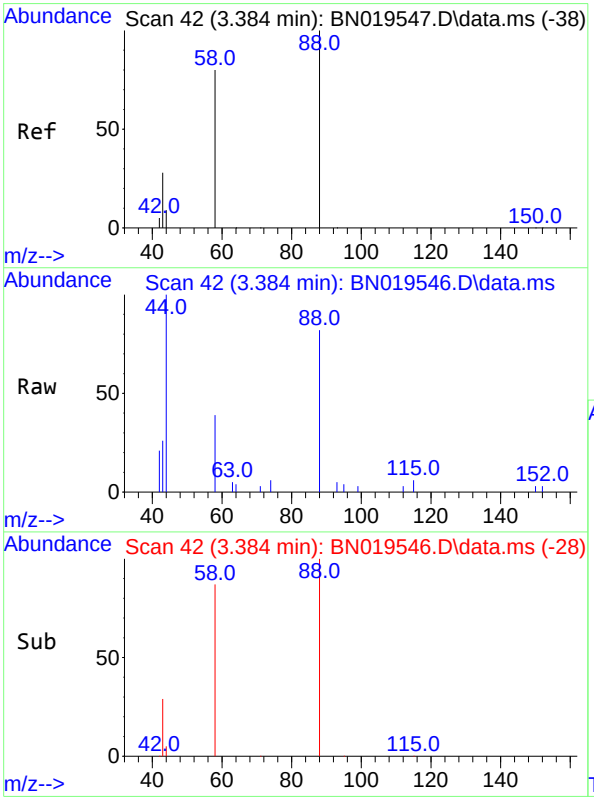
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.883 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4977

Ion	Ratio	Lower	Upper
152	100		
150	153.4	122.6	183.8
115	61.3	49.0	73.6

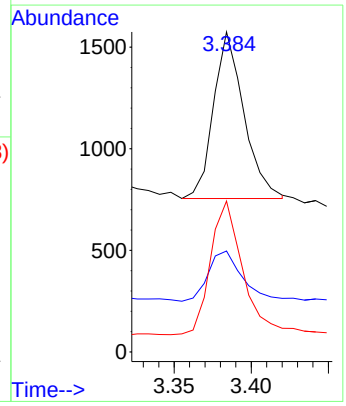


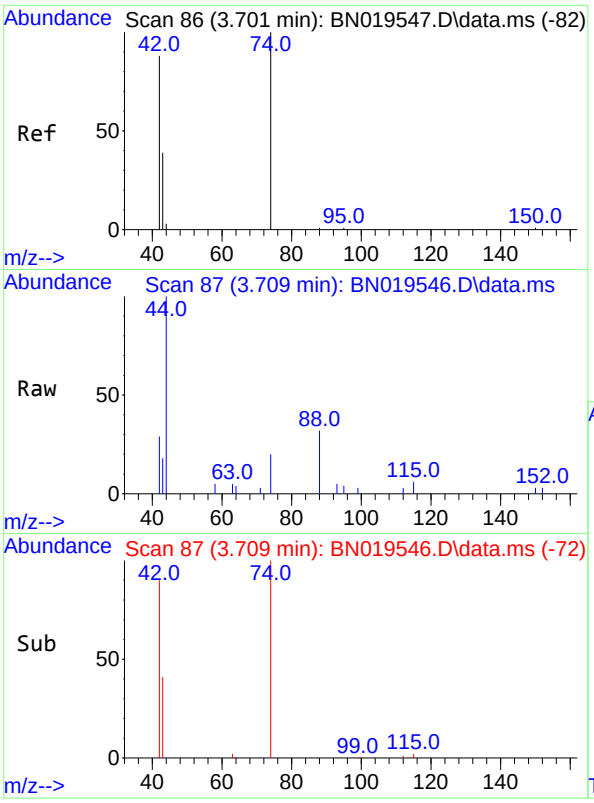


#2
1,4-Dioxane
Concen: 0.172 ng
RT: 3.384 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion: 88 Resp: 1124

Ion	Ratio	Lower	Upper
88	100		
43	33.8	25.2	37.8
58	84.4	67.6	101.4



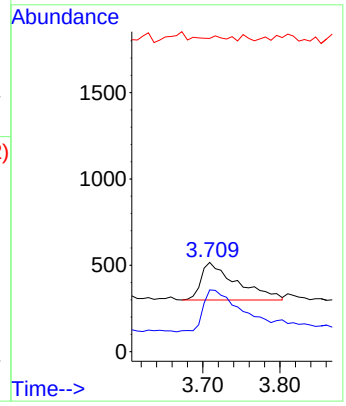


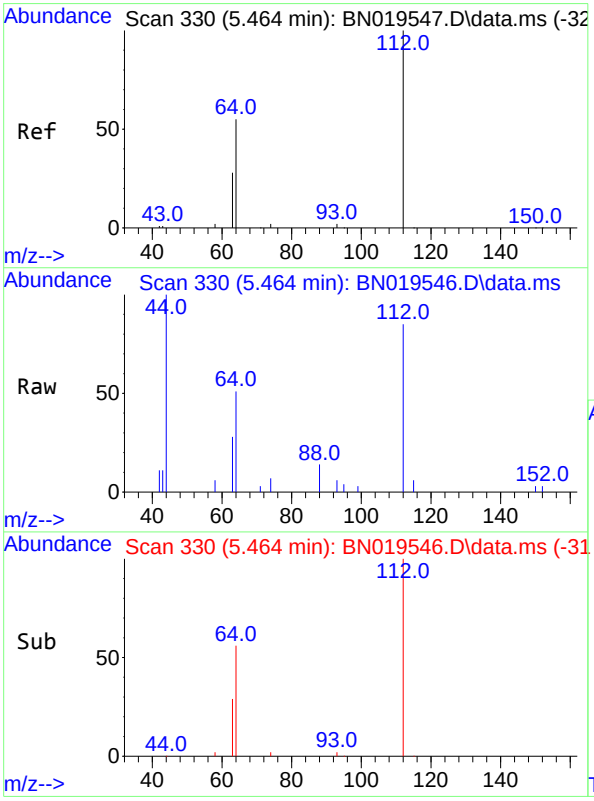
#3
n-Nitrosodimethylamine
Concen: 0.115 ng
RT: 3.709 min Scan# 8
Delta R.T. 0.007 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 697

Ion	Ratio	Lower	Upper
42	100		
74	120.7	101.8	152.6
44	4.0	8.4	12.6#

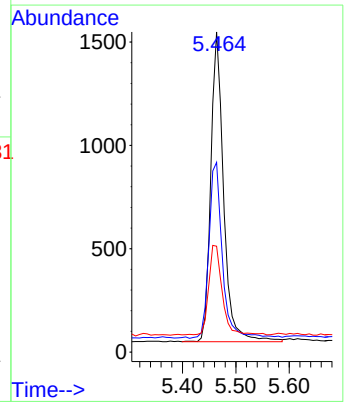


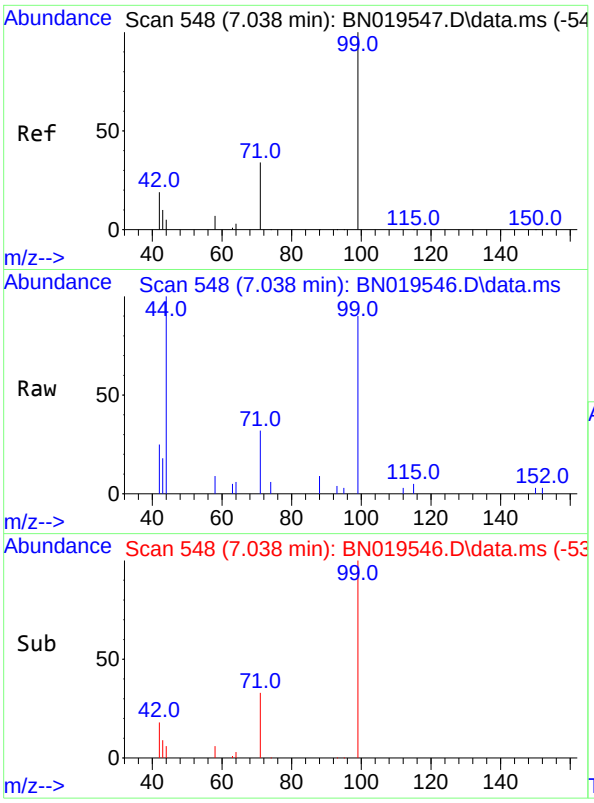


#4
2-Fluorophenol
Concen: 0.235 ng
RT: 5.464 min Scan# 330
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:112 Resp: 2509

Ion	Ratio	Lower	Upper
112	100		
64	60.3	47.3	70.9
63	30.3	24.6	36.8



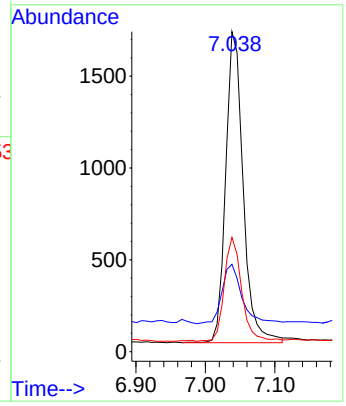


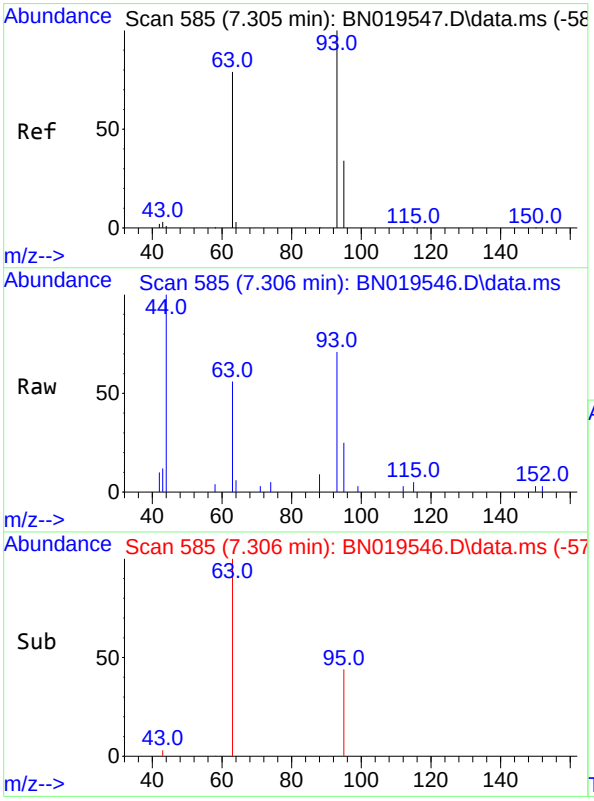
#5
Phenol-d6
Concen: 0.244 ng
RT: 7.038 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 2965

Ion	Ratio	Lower	Upper
99	100		
42	21.7	15.8	23.8
71	33.2	26.5	39.7

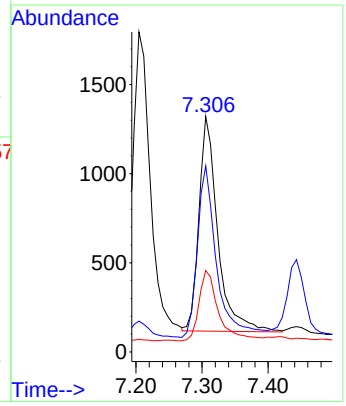


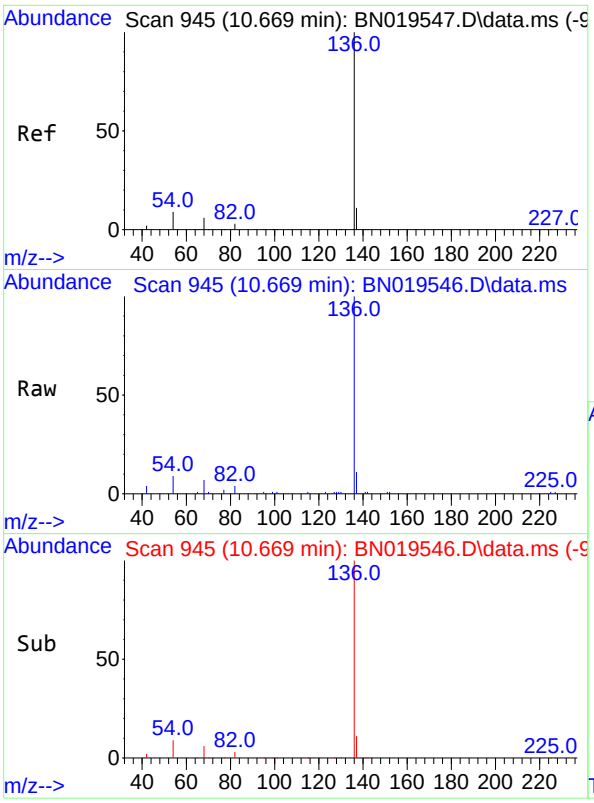


#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 7.306 min Scan# 585
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion: 93 Resp: 2382

Ion	Ratio	Lower	Upper
93	100		
63	81.6	65.8	98.8
95	33.9	27.4	41.2



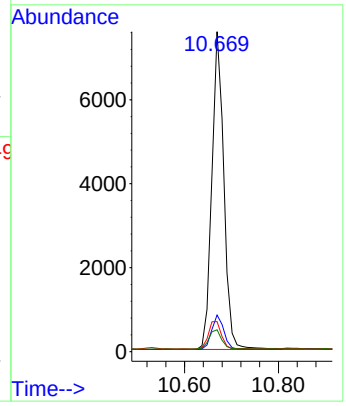


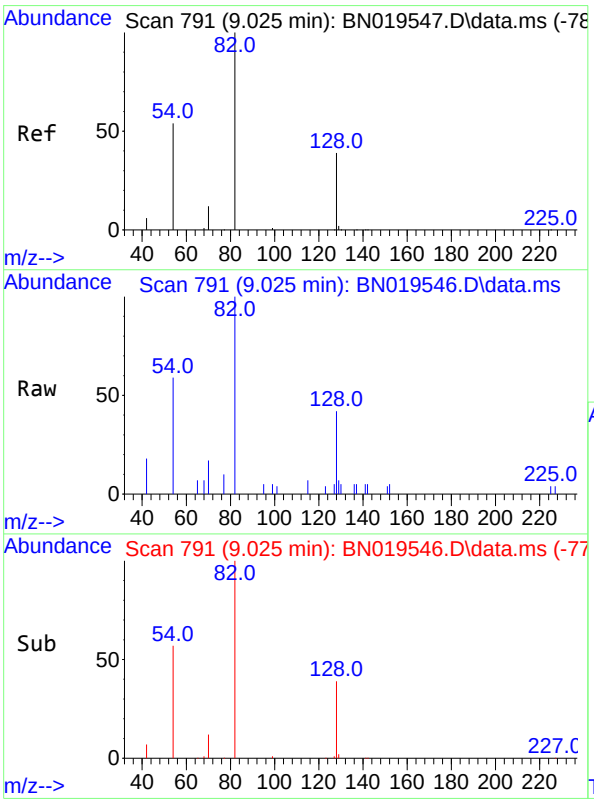
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 13379

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.4	7.8	11.6
68	6.9	5.4	8.2

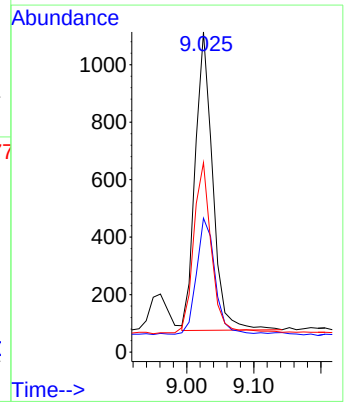


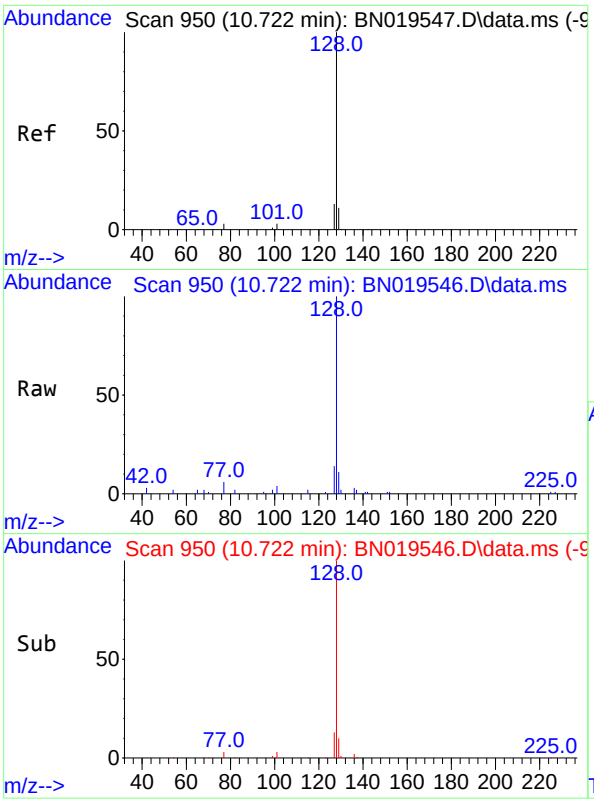


#8
Nitrobenzene-d5
Concen: 0.194 ng
RT: 9.025 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion: 82 Resp: 1880

Ion	Ratio	Lower	Upper
82	100		
128	41.8	32.4	48.6
54	59.2	44.4	66.6



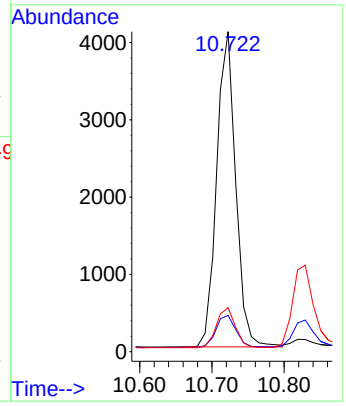


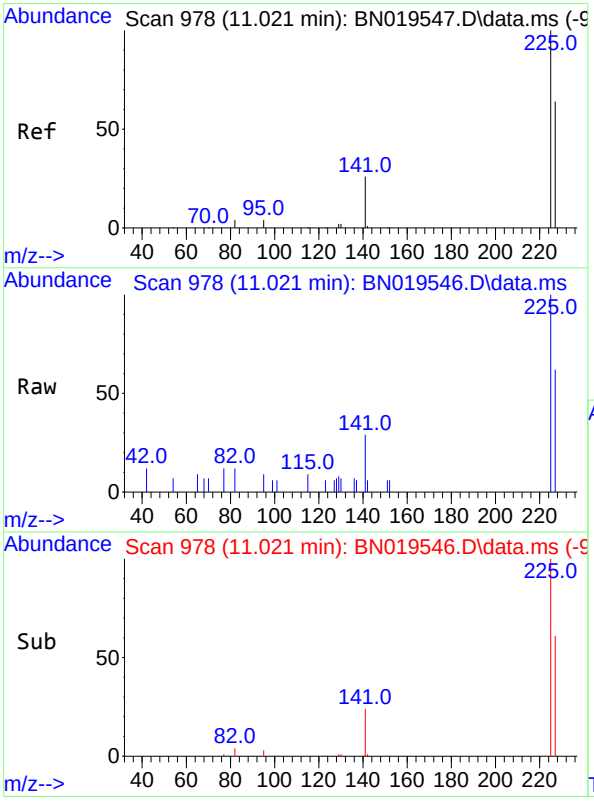
#9
Naphthalene
Concen: 0.191 ng
RT: 10.722 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 7437

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.4
127	13.7	10.8	16.2

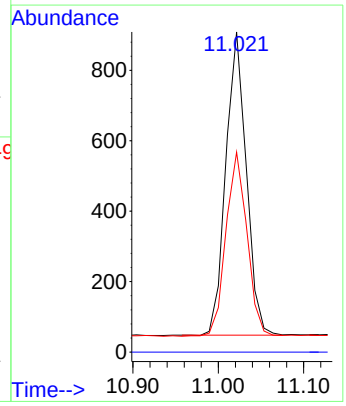


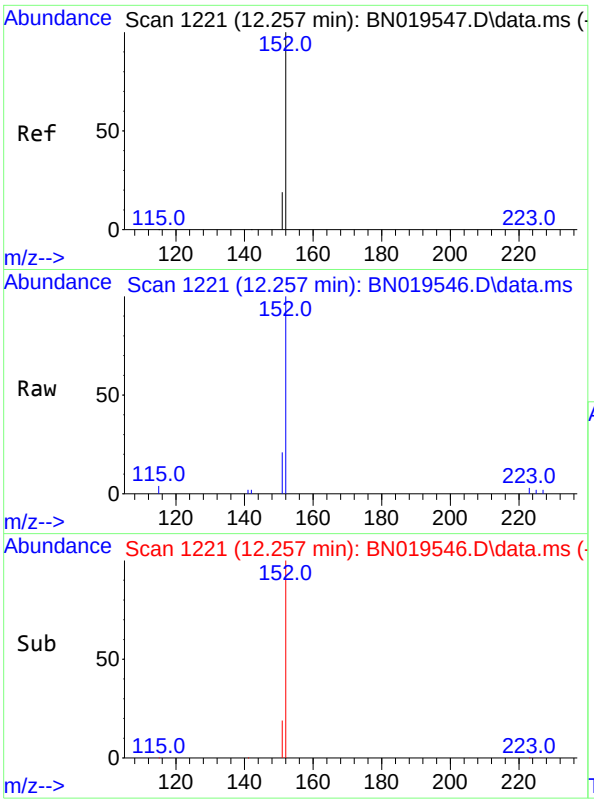


#10
Hexachlorobutadiene
Concen: 0.168 ng
RT: 11.021 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:225 Resp: 1432

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.8	76.2



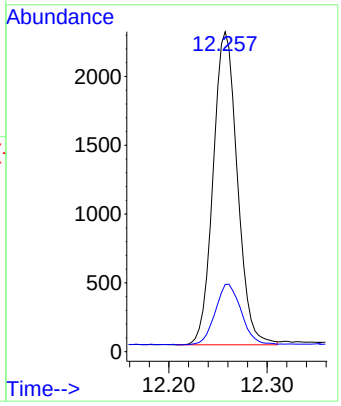


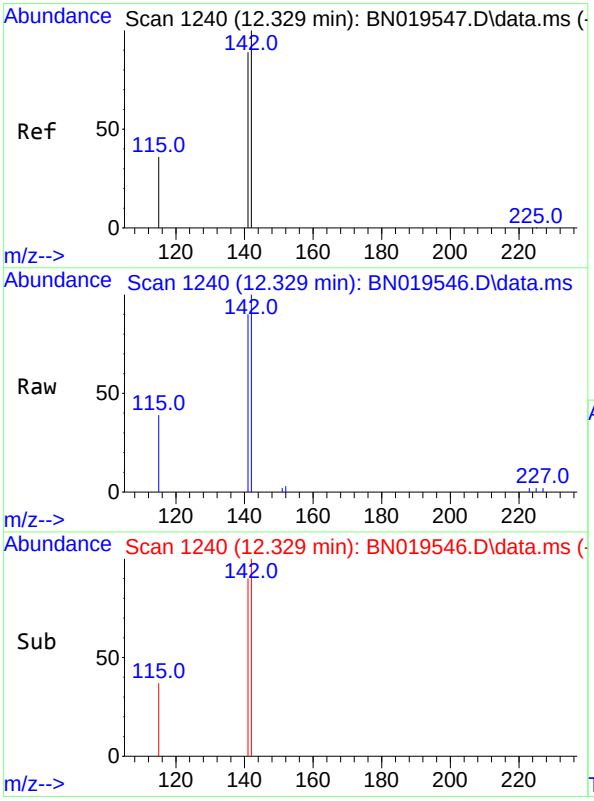
#11
2-Methylnaphthalene-d10
Concen: 0.179 ng
RT: 12.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 3896

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.4

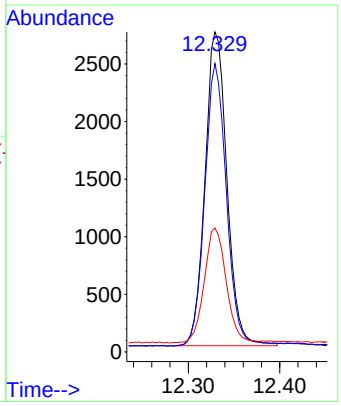


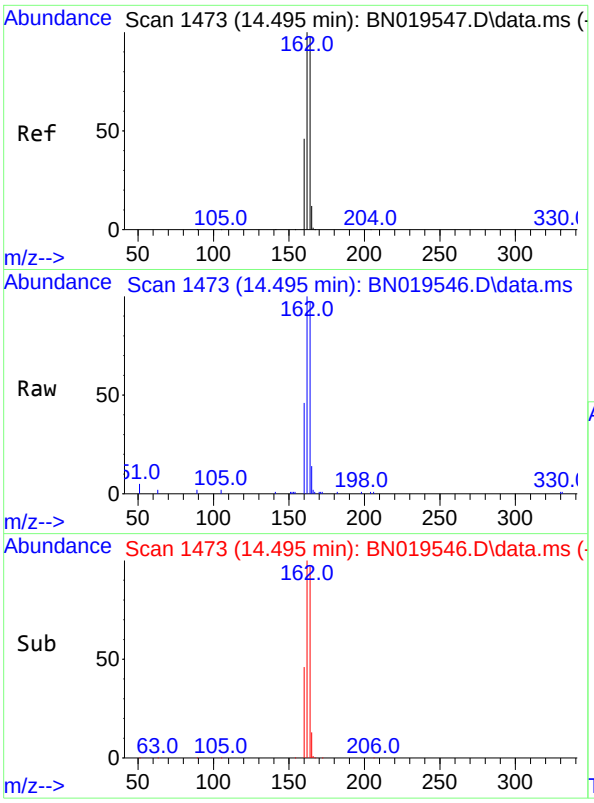


#12
2-Methylnaphthalene
Concen: 0.179 ng
RT: 12.329 min Scan# 1240
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:142 Resp: 4540

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.0	106.6
115	38.8	29.6	44.4



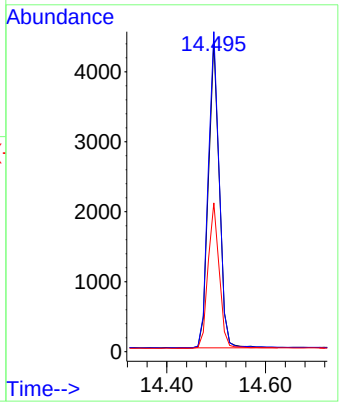


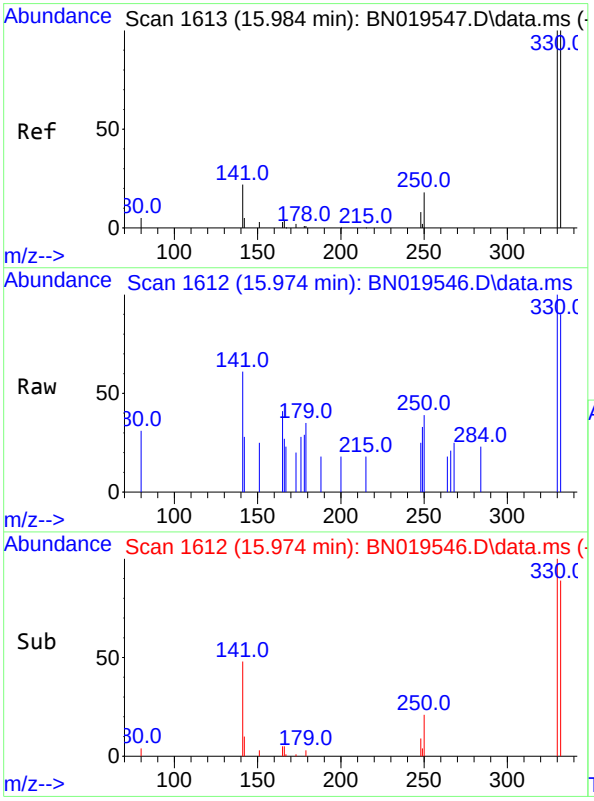
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 6723

Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.8	122.6
160	47.9	38.3	57.5

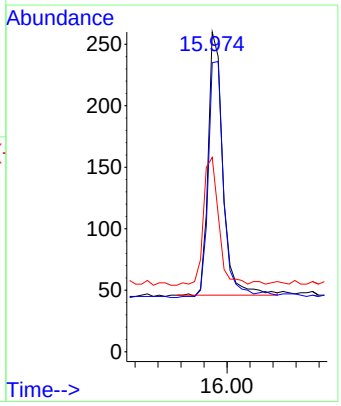


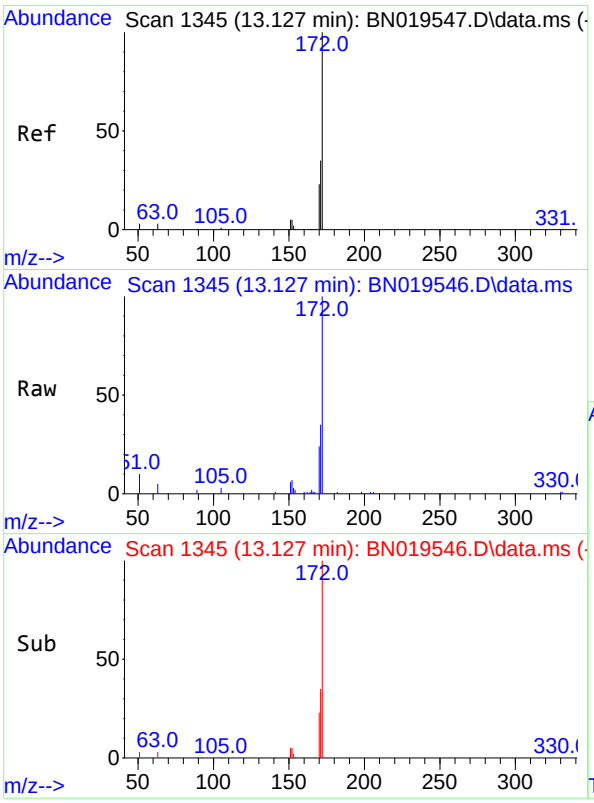


#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.974 min Scan# 1612
Delta R.T. -0.010 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:330 Resp: 380

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.2	114.4
141	50.8	39.7	59.5



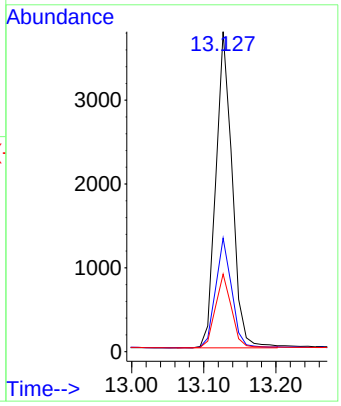


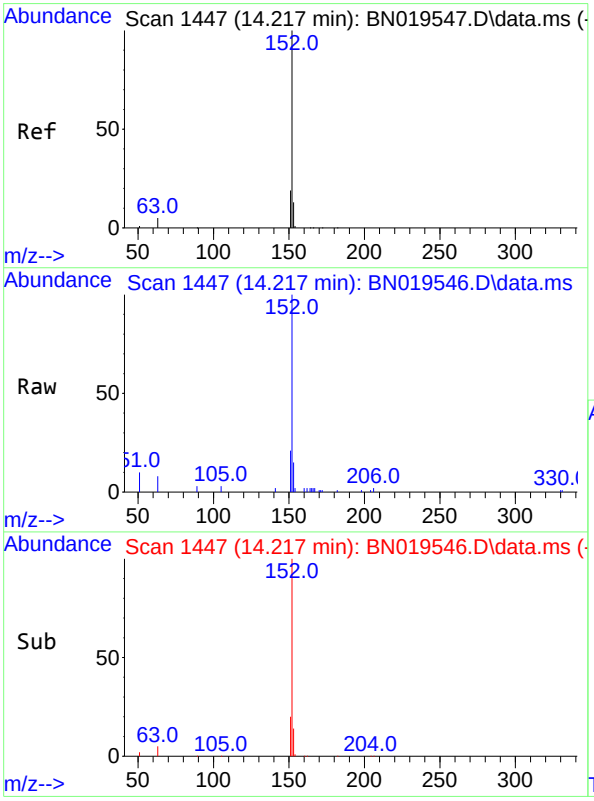
#15
2-Fluorobiphenyl
Concen: 0.220 ng
RT: 13.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 5903

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.0	42.0
170	24.3	19.0	28.4

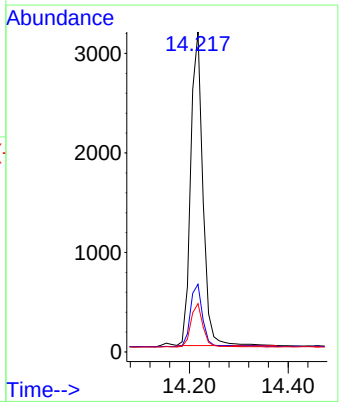


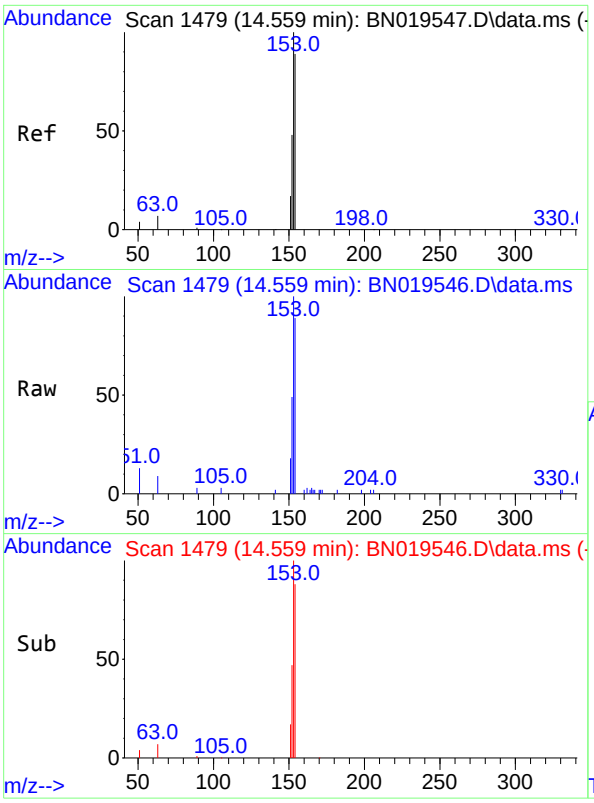


#16
Acenaphthylene
Concen: 0.176 ng
RT: 14.217 min Scan# 1447
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:152 Resp: 5373

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	14.0	10.5	15.7



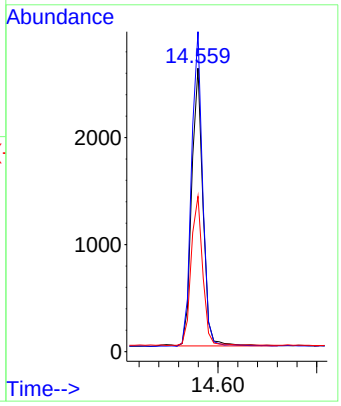


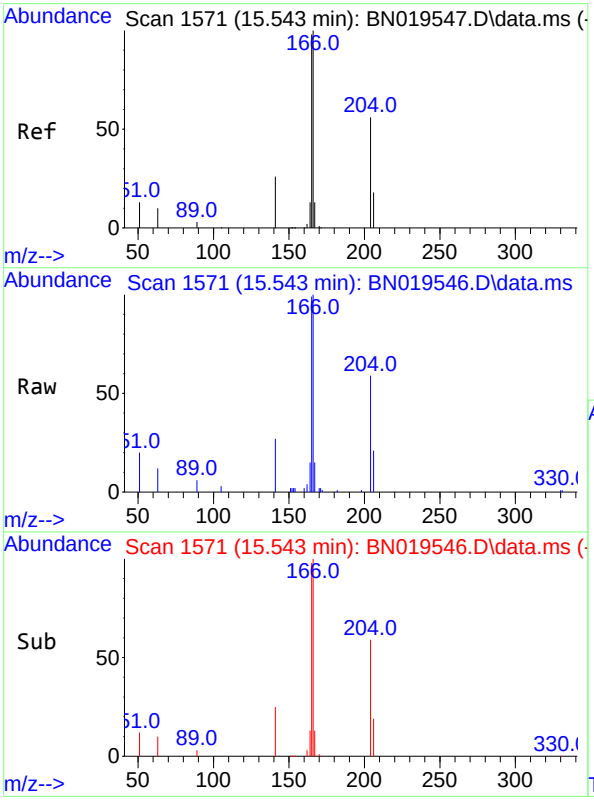
#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 4113

Ion	Ratio	Lower	Upper
154	100		
153	111.2	89.3	133.9
152	54.7	44.1	66.1

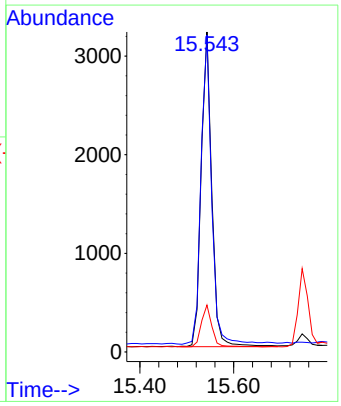


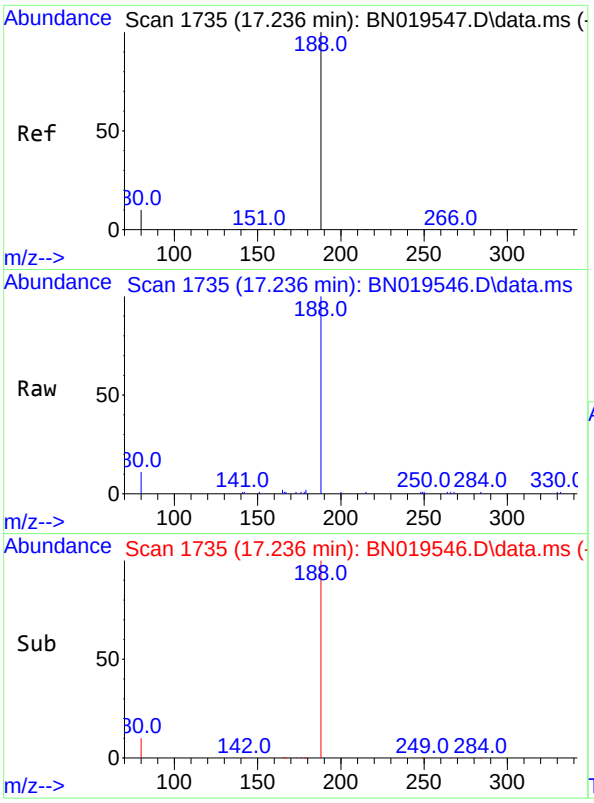


#18
Fluorene
Concen: 0.178 ng
RT: 15.543 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:166 Resp: 4978

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.1	118.7
167	13.3	10.7	16.1



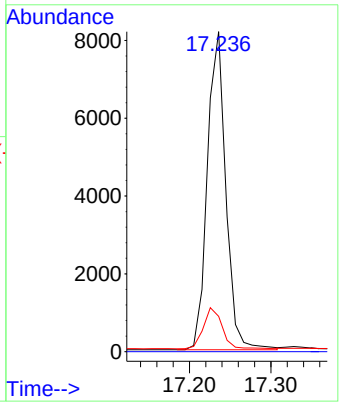


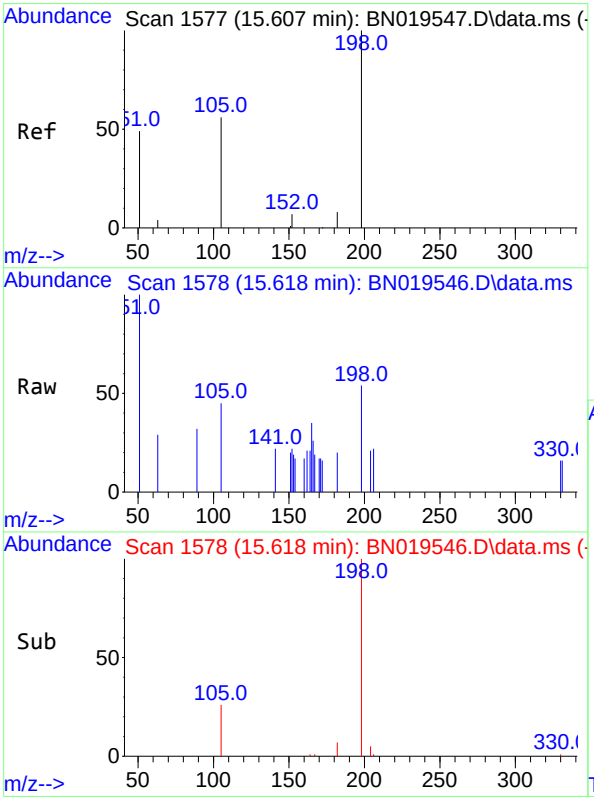
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 12867

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	8.6	12.8

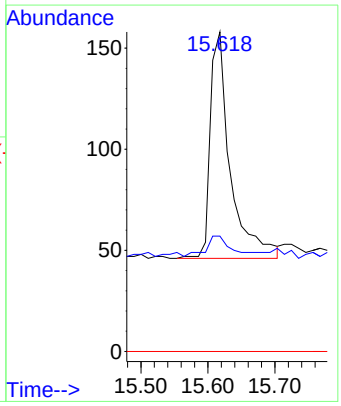


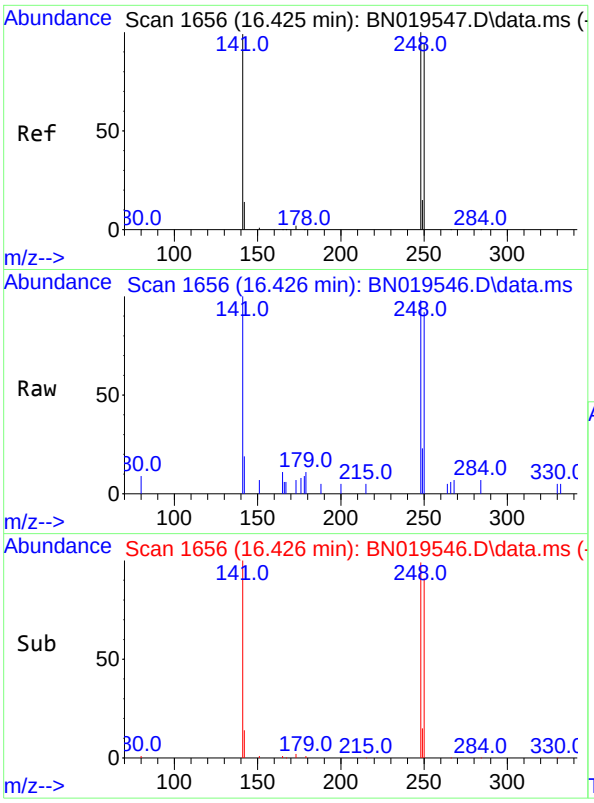


#20
4,6-Dinitro-2-methylphenol
Concen: 0.179 ng
RT: 15.618 min Scan# 1578
Delta R.T. 0.011 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:198 Resp: 232

Ion	Ratio	Lower	Upper
198	100		
182	36.1	16.9	25.3#
77	0.0	0.0	0.0



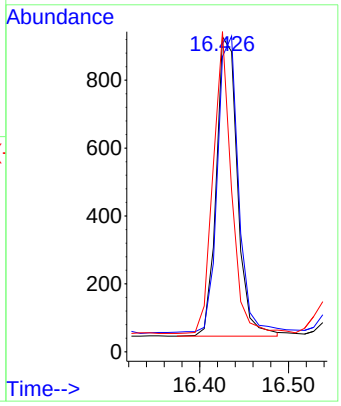


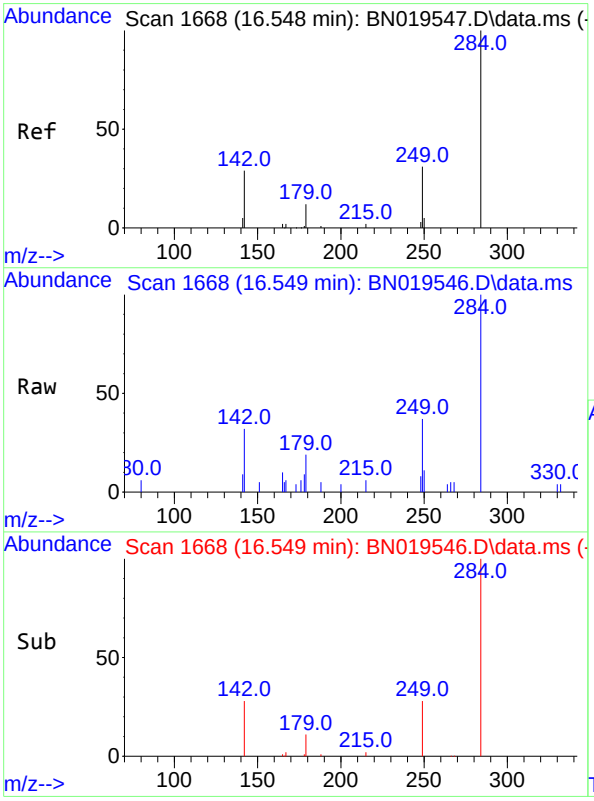
#21
4-Bromophenyl-phenylether
Concen: 0.185 ng
RT: 16.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1455

Ion	Ratio	Lower	Upper
248	100		
250	93.8	75.5	113.3
141	101.6	79.9	119.9

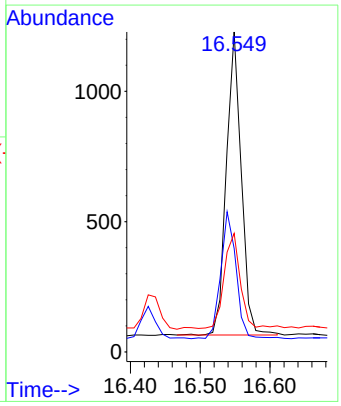


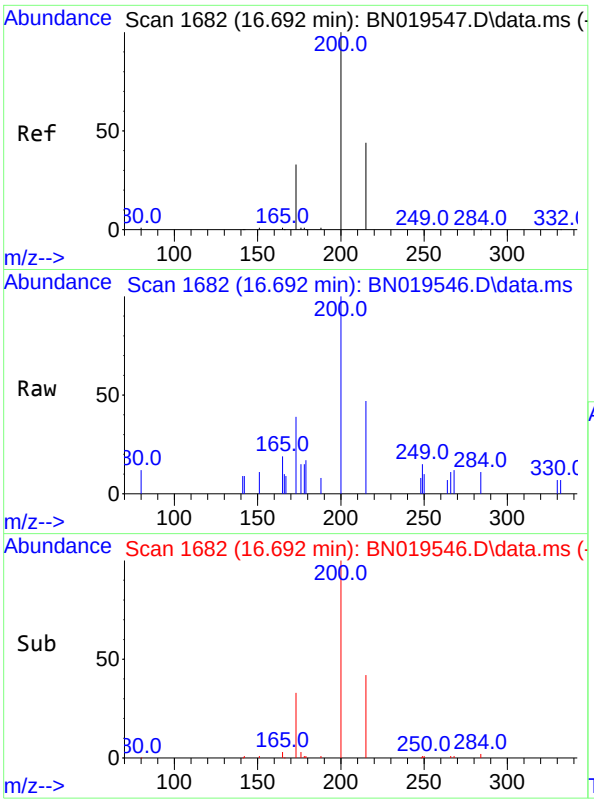


#22
Hexachlorobenzene
Concen: 0.176 ng
RT: 16.549 min Scan# 1668
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:284 Resp: 1730

Ion	Ratio	Lower	Upper
284	100		
142	43.1	33.2	49.8
249	33.9	26.4	39.6



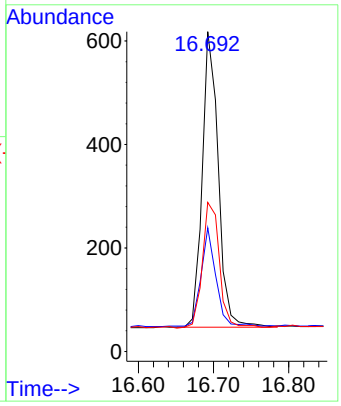


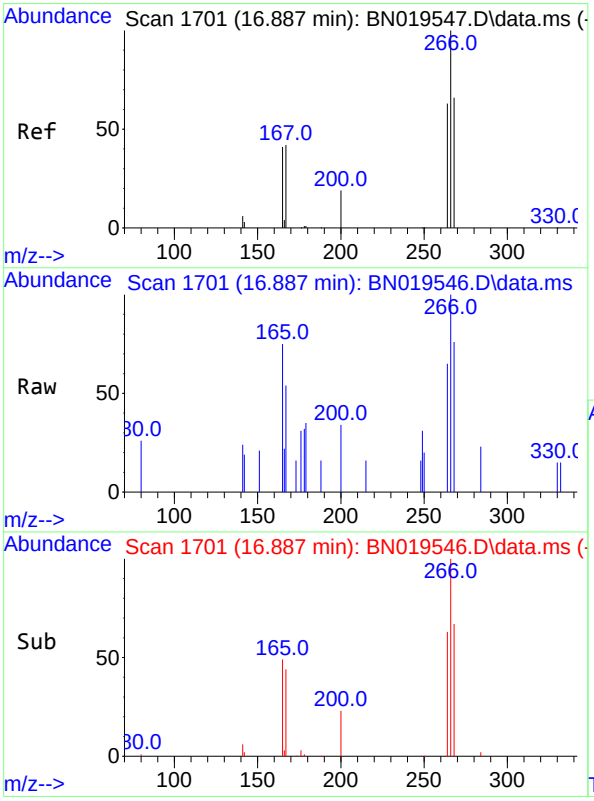
#23
Atrazine
Concen: 0.152 ng
RT: 16.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 847

Ion	Ratio	Lower	Upper
200	100		
173	38.7	28.5	42.7
215	46.6	37.0	55.4

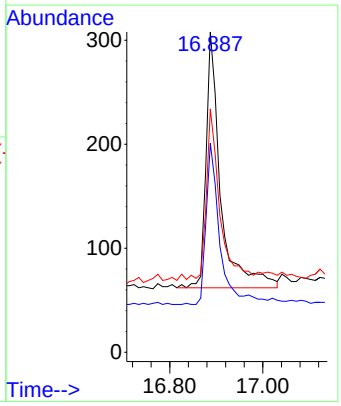


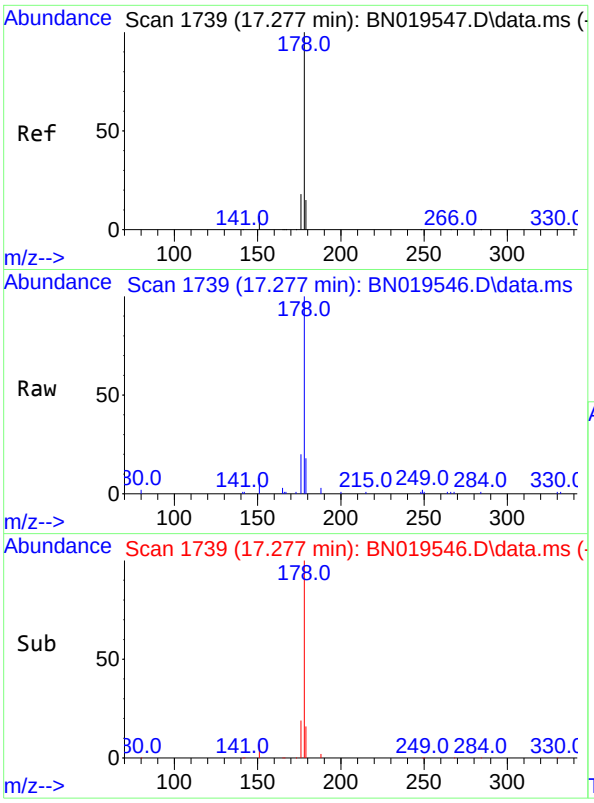


#24
Pentachlorophenol
Concen: 0.276 ng
RT: 16.887 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:266 Resp: 532

Ion	Ratio	Lower	Upper
266	100		
264	59.6	48.0	72.0
268	60.2	54.2	81.2



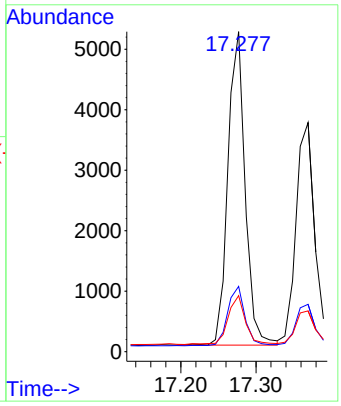


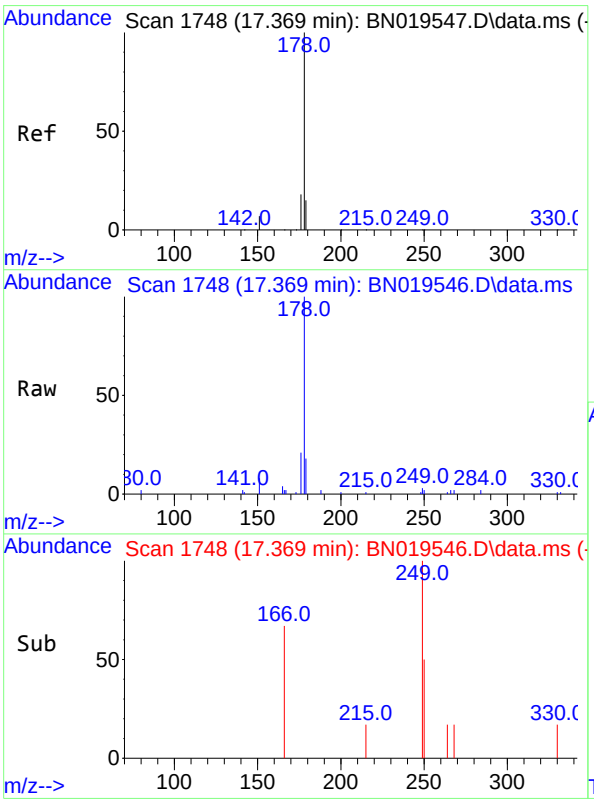
#25
Phenanthrene
Concen: 0.203 ng
RT: 17.277 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 8238

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.8	12.1	18.1

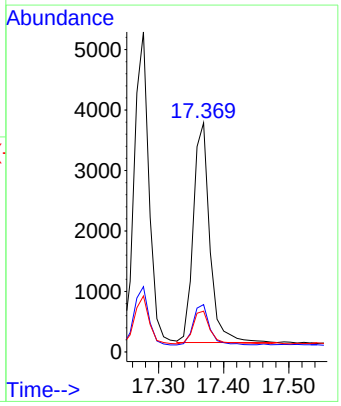


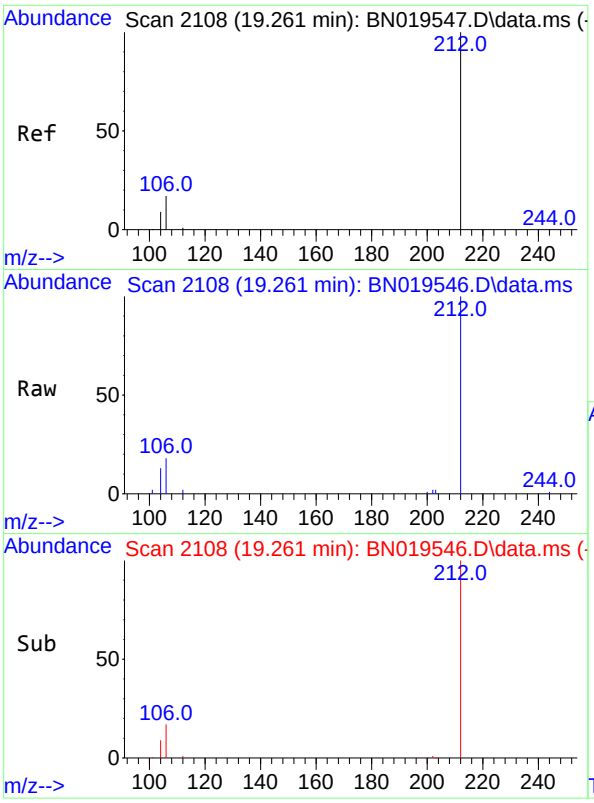


#26
Anthracene
Concen: 0.195 ng
RT: 17.369 min Scan# 1748
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:178 Resp: 6390

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.3	21.5
179	15.4	12.2	18.4



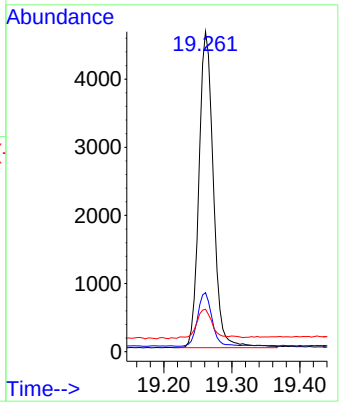


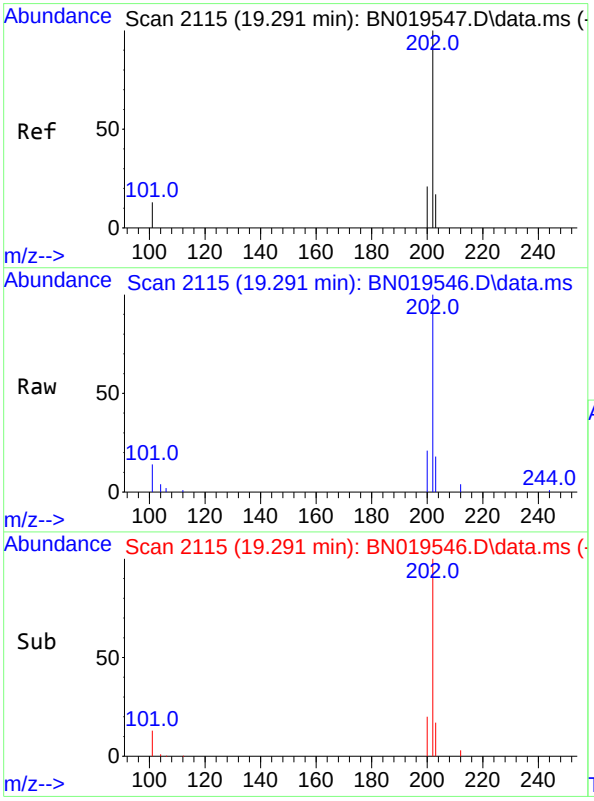
#27
Fluoranthene-d10
Concen: 0.182 ng
RT: 19.261 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 6843

Ion	Ratio	Lower	Upper
212	100		
106	16.8	13.5	20.3
104	10.4	7.6	11.4

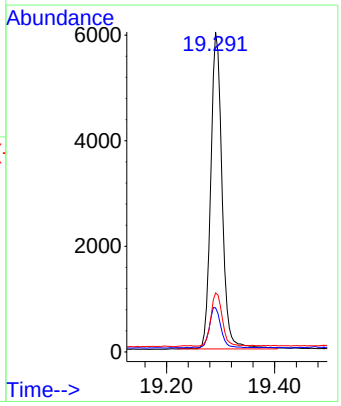


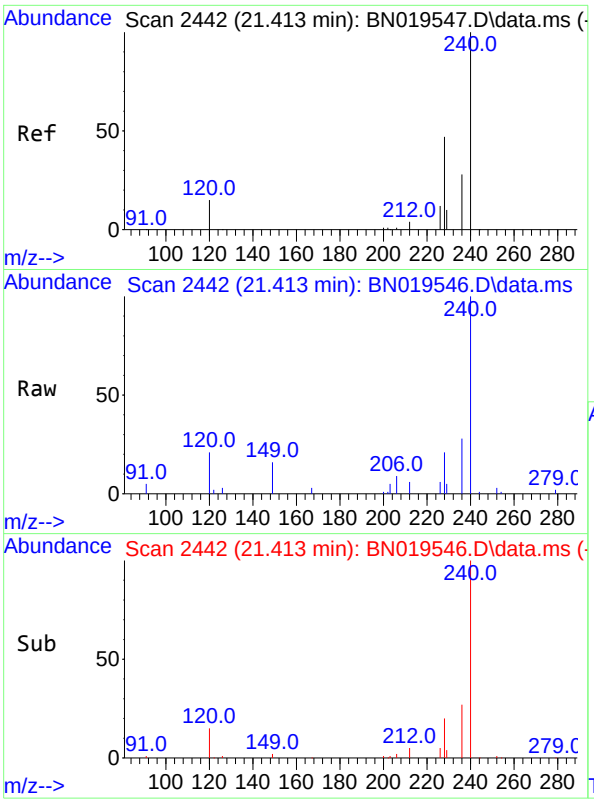


#28
Fluoranthene
Concen: 0.188 ng
RT: 19.291 min Scan# 2115
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:202 Resp: 8734

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.6	15.8
203	17.0	13.6	20.4



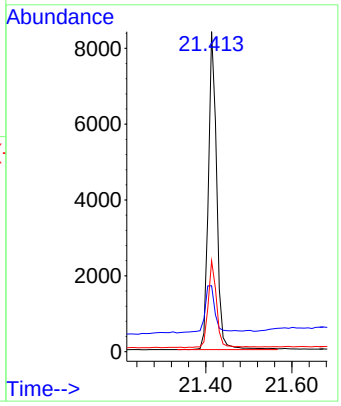


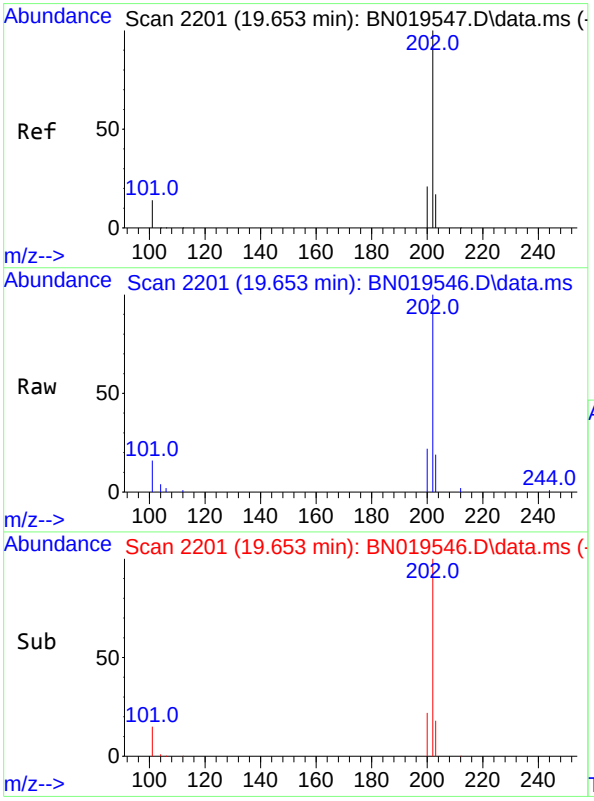
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.413 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 11291

Ion	Ratio	Lower	Upper
240	100		
120	20.6	17.4	26.2
236	28.4	23.0	34.4

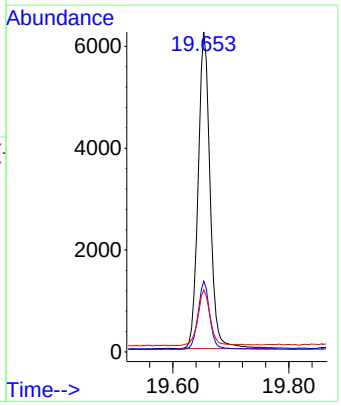


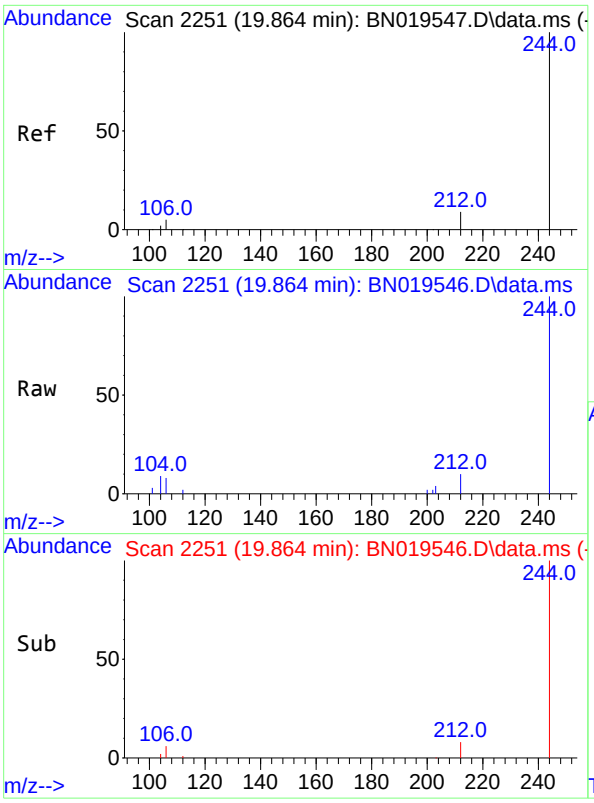


#30
Pyrene
Concen: 0.166 ng
RT: 19.653 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:202 Resp: 8886

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	18.1	14.2	21.4



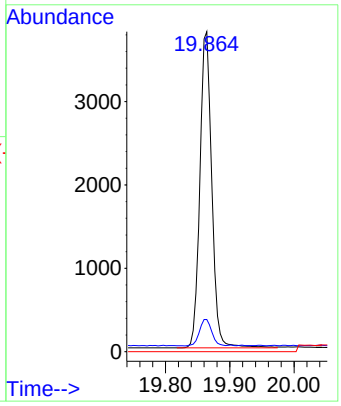


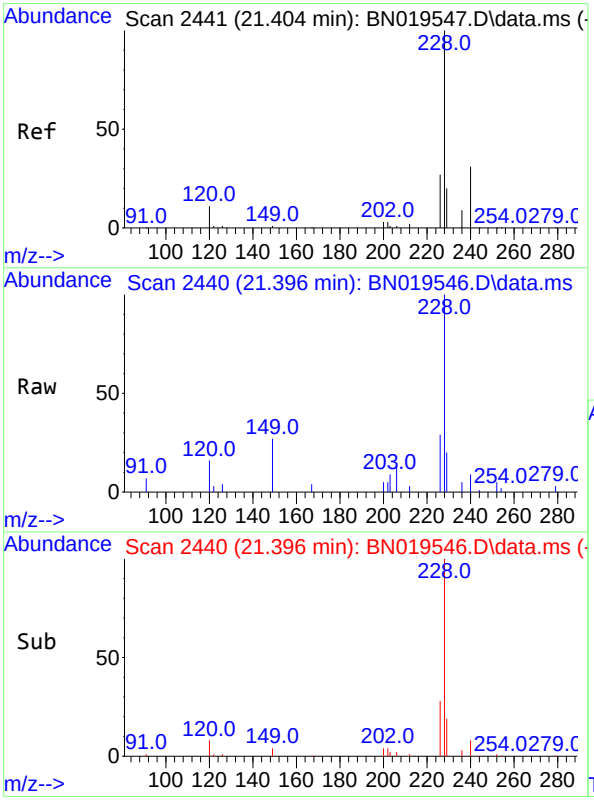
#31
Terphenyl-d14
Concen: 0.193 ng
RT: 19.864 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 4917

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.6	11.4
122	0.0	0.0	0.0

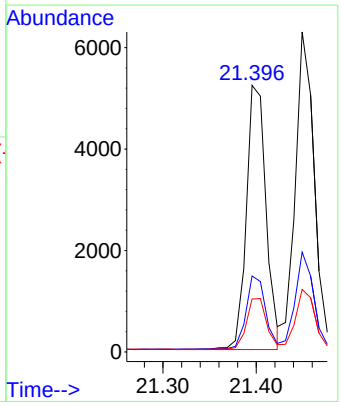


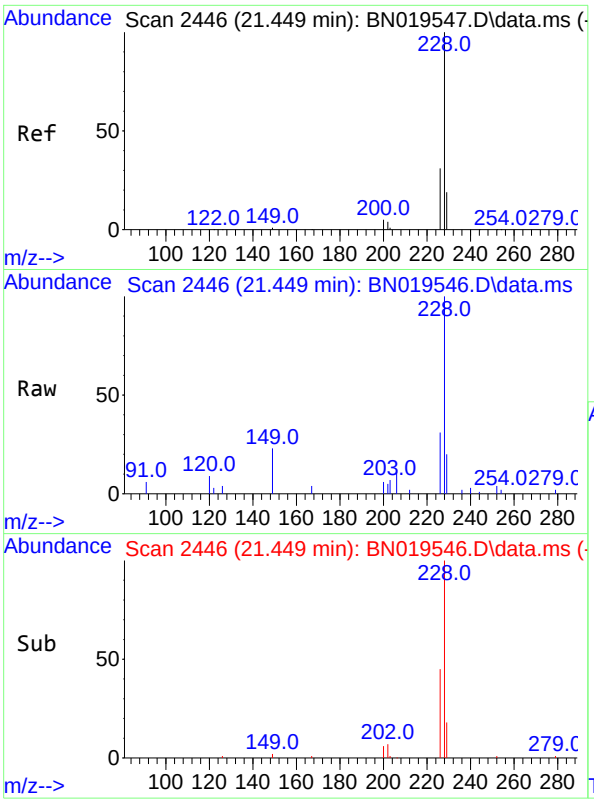


#32
Benzo(a)anthracene
Concen: 0.218 ng
RT: 21.396 min Scan# 2440
Delta R.T. -0.009 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:228 Resp: 7643

Ion	Ratio	Lower	Upper
228	100		
226	28.5	21.6	32.4
229	19.9	16.5	24.7



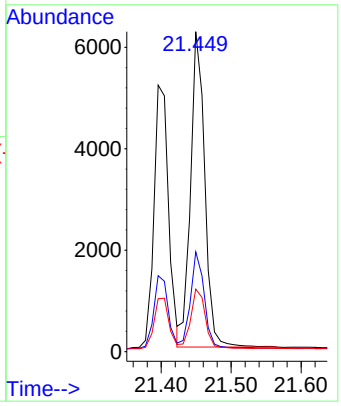


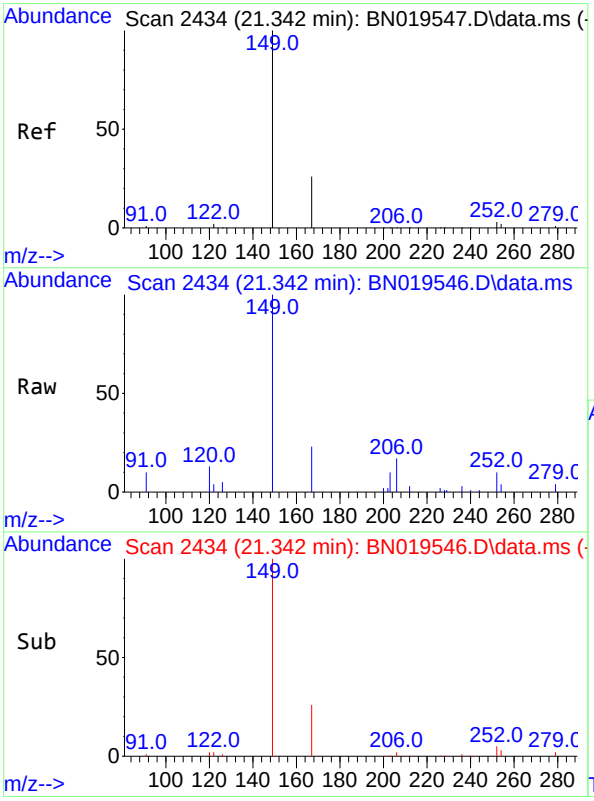
#33
Chrysene
Concen: 0.198 ng
RT: 21.449 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 8780

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	36.8
229	19.6	15.9	23.9

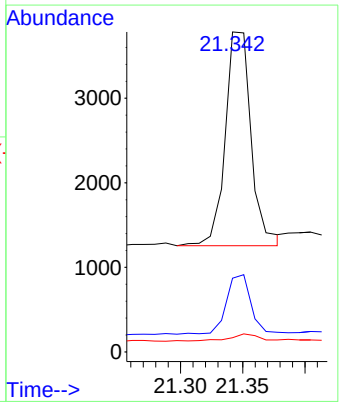


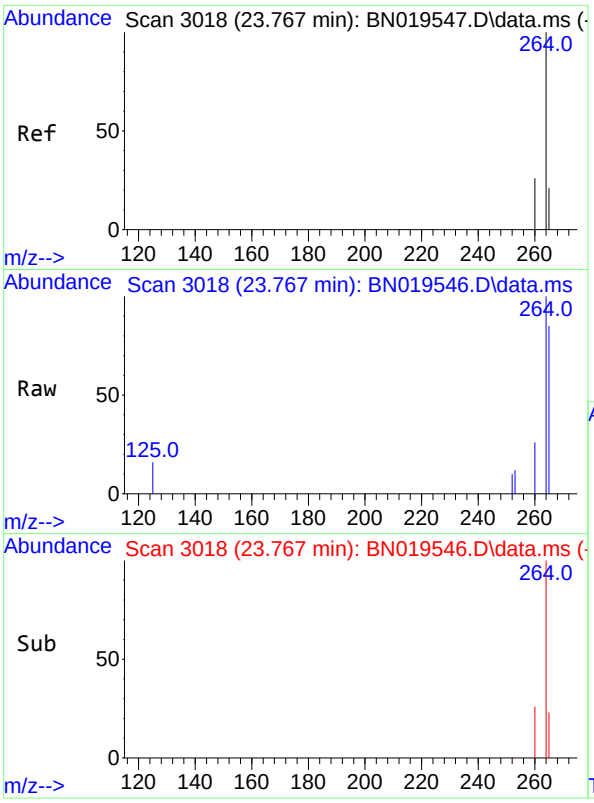


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.177 ng
RT: 21.342 min Scan# 2434
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:149 Resp: 3659

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.7	32.5
279	4.0	2.8	4.2



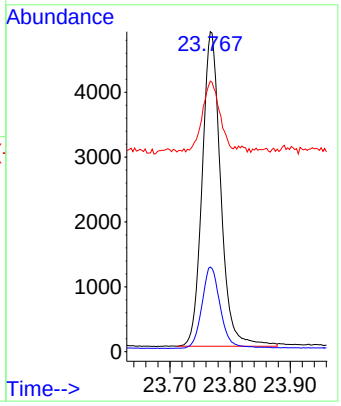


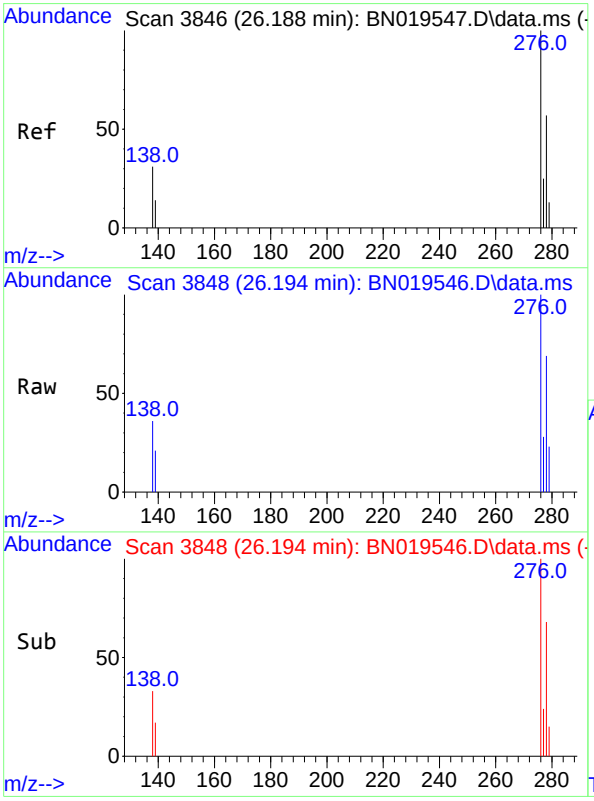
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.767 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 10367

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.0	31.6
265	84.5	67.9	101.9

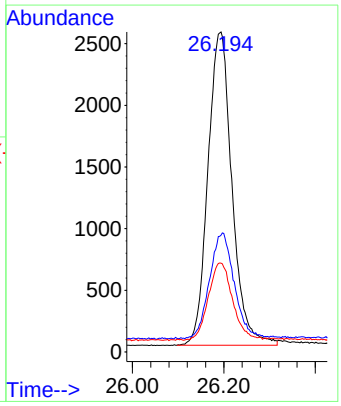


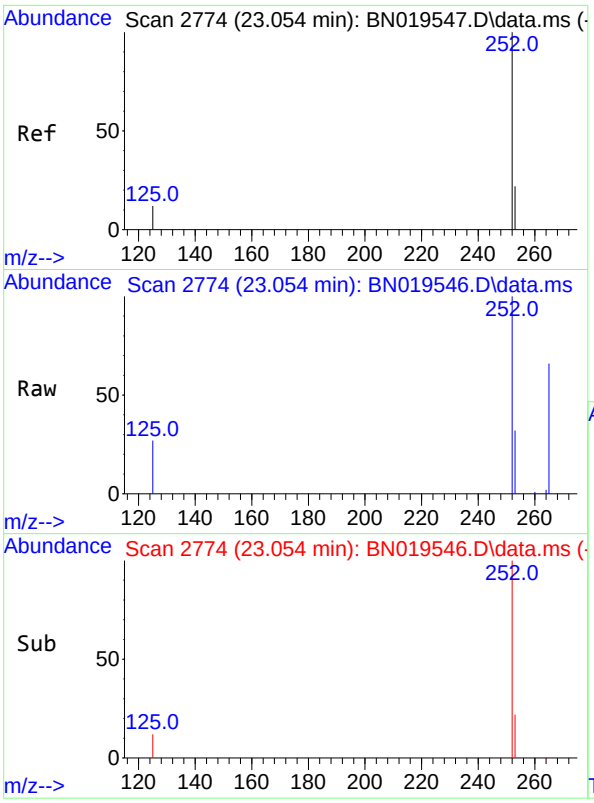


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.232 ng
RT: 26.194 min Scan# 3848
Delta R.T. 0.006 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:276 Resp: 9285

Ion	Ratio	Lower	Upper
276	100		
138	34.7	26.6	40.0
277	24.9	20.0	30.0



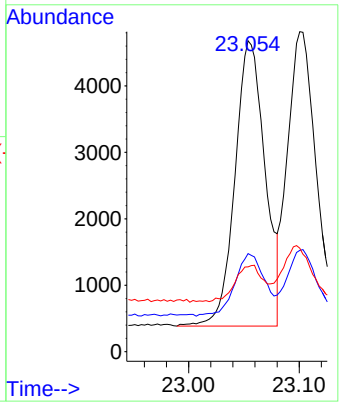


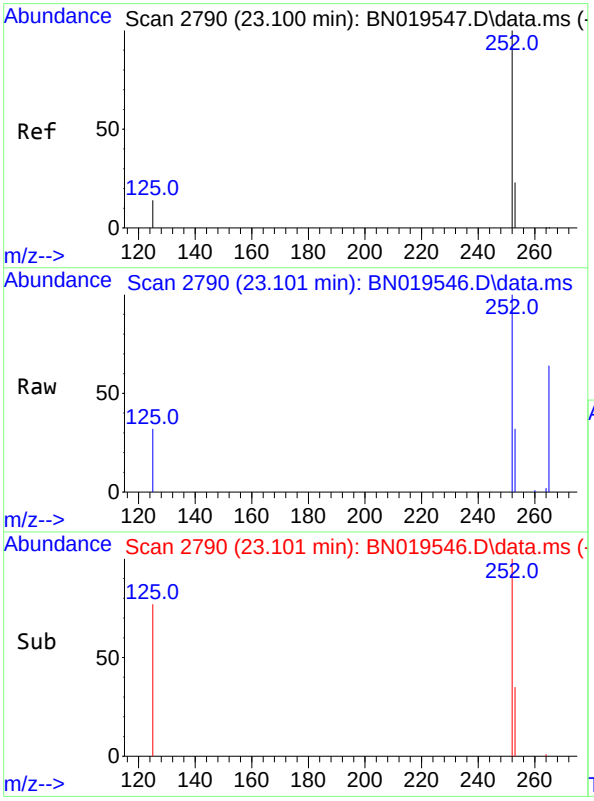
#37
Benzo(b)fluoranthene
Concen: 0.204 ng
RT: 23.054 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 8122

Ion	Ratio	Lower	Upper
252	100		
253	31.6	21.2	31.8
125	27.3	15.9	23.9#

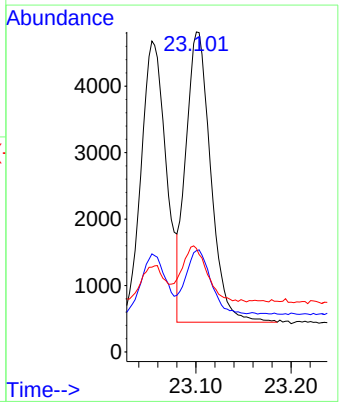


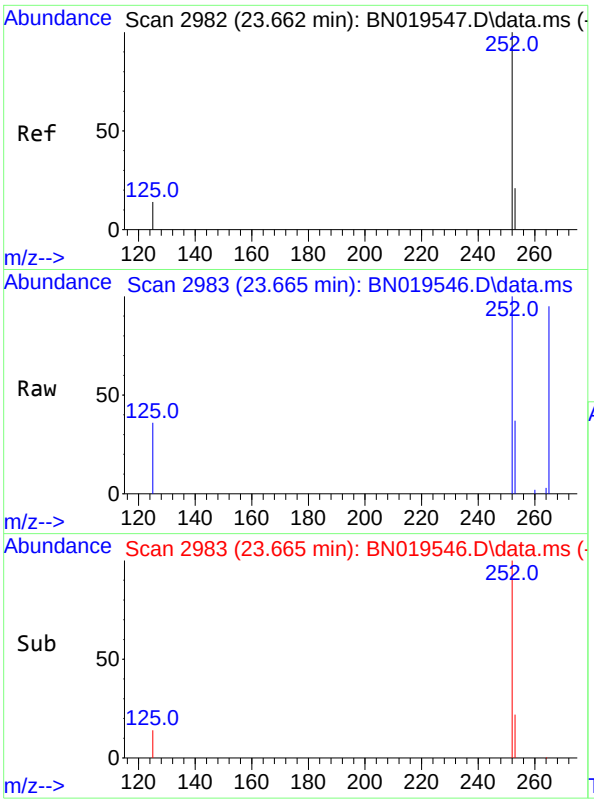


#38
Benzo(k)fluoranthene
Concen: 0.186 ng
RT: 23.101 min Scan# 2790
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:252 Resp: 7939

Ion	Ratio	Lower	Upper
252	100		
253	31.6	21.7	32.5
125	32.4	17.0	25.4#



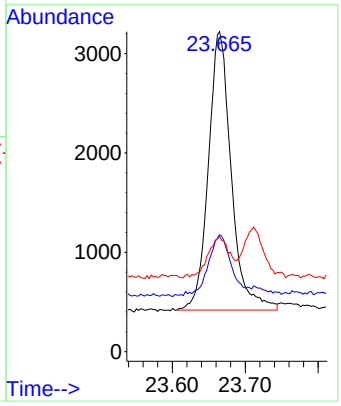


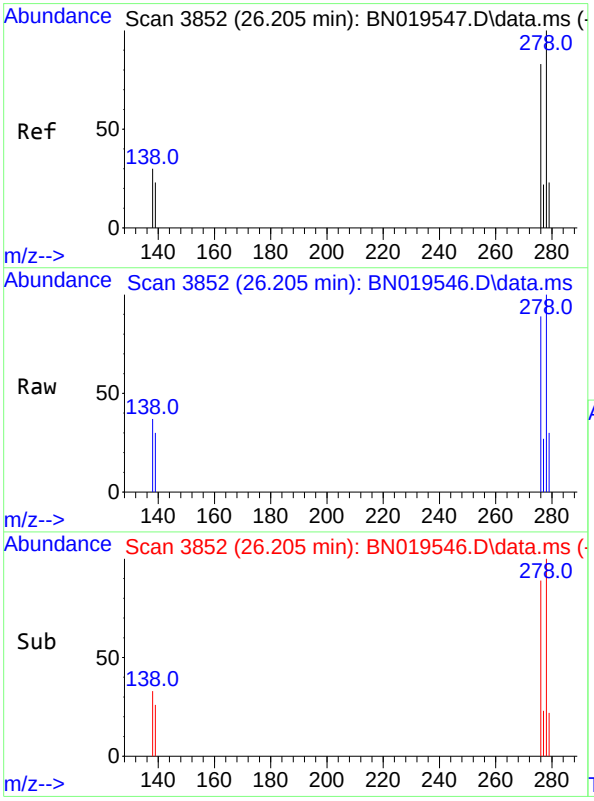
#39
Benzo(a)pyrene
Concen: 0.173 ng
RT: 23.665 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6092

Ion	Ratio	Lower	Upper
252	100		
253	36.5	23.1	34.7#
125	36.0	20.4	30.6#

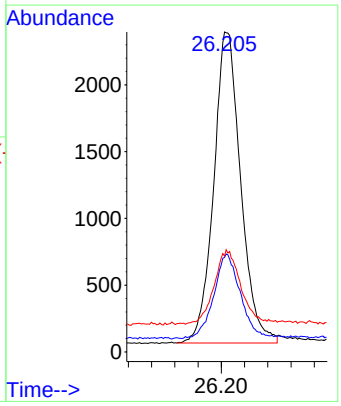


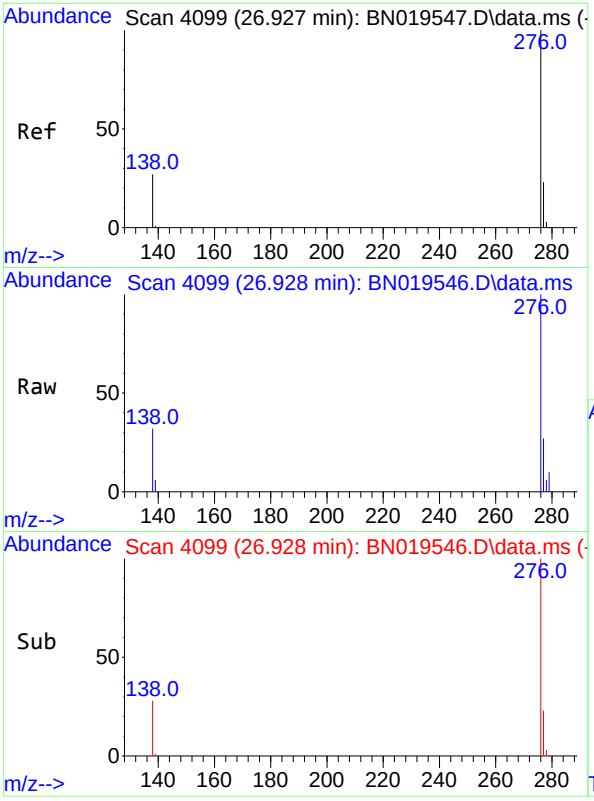


#40
Dibenzo(a,h)anthracene
Concen: 0.251 ng
RT: 26.205 min Scan# 3852
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Tgt Ion:278 Resp: 7510

Ion	Ratio	Lower	Upper
278	100		
139	29.5	19.4	29.2#
279	30.0	21.8	32.8





#41
Benzo(g,h,i)perylene
Concen: 0.197 ng
RT: 26.928 min Scan# 4
Delta R.T. 0.000 min
Lab File: BN019546.D
Acq: 27 Apr 2022 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 8098

Ion	Ratio	Lower	Upper
276	100		
277	27.0	20.2	30.2
138	32.4	23.5	35.3