Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE041421\
Data File : BE101299.D
Acq On : 14 Apr 2021 13:13
Operator : CG/JU
Sample : PB135708BSD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_E
ClientSampleId : PB135708BSD

Quant Time: Apr 14 14:06:51 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-SIM-BE041221.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 12 18:02:55 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.826	152	2499	0.40	ng		0.00
7) Naphthalene-d8	10.614	136	10633	0.40	ng		# 0.00
13) Acenaphthene-d10	14.443	164	6408	0.40	ng		0.00
19) Phenanthrene-d10	17.197	188	15212	0.40	ng		# 0.00
29) Chrysene-d12	21.354	240	20664	0.40	ng		# 0.00
36) Perylene-d12	23.837	264	20805	0.40	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.419	112	2907	0.39	ng		-0.01
5) Phenol-d6	6.997	99	4348	0.39	ng		0.00
8) Nitrobenzene-d5	8.977	82	3394	0.35	ng		0.00
11) 2-Methylnaphthalene-d10	12.195	152	9270	0.38	ng		0.00
14) 2,4,6-Tribromophenol	15.957	330	516	0.27	ng		0.00
15) 2-Fluorobiphenyl	13.074	172	9528	0.43	ng		0.00
27) Fluoranthene-d10	19.214	212	102321	0.38	ng		0.00
31) Terphenyl-d14	19.812	244	17868	0.36	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.358	88	1854	0.43	ng		93
3) n-Nitrosodimethylamine	3.669	42	1988	0.41	ng	#	96
6) bis(2-Chloroethyl)ether	7.251	93	3439	0.40	ng		100
9) Naphthalene	10.653	128	46586	0.41	ng		100
10) Hexachlorobutadiene	10.952	225	1985	0.40	ng		98
12) 2-Methylnaphthalene	12.267	142	7722	0.38	ng		95
16) Acenaphthylene	14.169	152	9228	0.35	ng		100
17) Acenaphthene	14.500	154	7046	0.39	ng		97
18) Fluorene	15.504	166	9148	0.38	ng		100
20) 4,6-Dinitro-2-methylph...	15.579	198	305	0.32	ng	#	75
21) 4-Bromophenyl-phenylether	16.396	248	2950	0.38	ng	#	81
22) Hexachlorobenzene	16.517	284	3041	0.40	ng		99
23) Atrazine	16.668	200	2194	0.32	ng		95
24) Pentachlorophenol	16.864	266	64	0.32	ng		93
25) Phenanthrene	17.242	178	17425	0.39	ng		100
26) Anthracene	17.333	178	14165	0.36	ng		99
28) Fluoranthene	19.243	202	22198	0.38	ng		100
30) Pyrene	19.605	202	22645	0.34	ng		100
32) Benzo(a)anthracene	21.341	228	24487	0.38	ng		99
33) Chrysene	21.390	228	27456	0.40	ng		100
34) Bis(2-ethylhexyl)phtha...	21.269	149	27142	0.31	ng		100
35) Indeno(1,2,3-cd)pyrene	26.449	276	27265	0.41	ng		98
37) Benzo(b)fluoranthene	23.075	252	25679	0.37	ng		99
38) Benzo(k)fluoranthene	23.124	252	28916	0.40	ng		99
39) Benzo(a)pyrene	23.727	252	22899	0.36	ng		99
40) Dibenzo(a,h)anthracene	26.481	278	23866	0.38	ng		99
41) Benzo(g,h,i)perylene	27.251	276	24201	0.38	ng		99

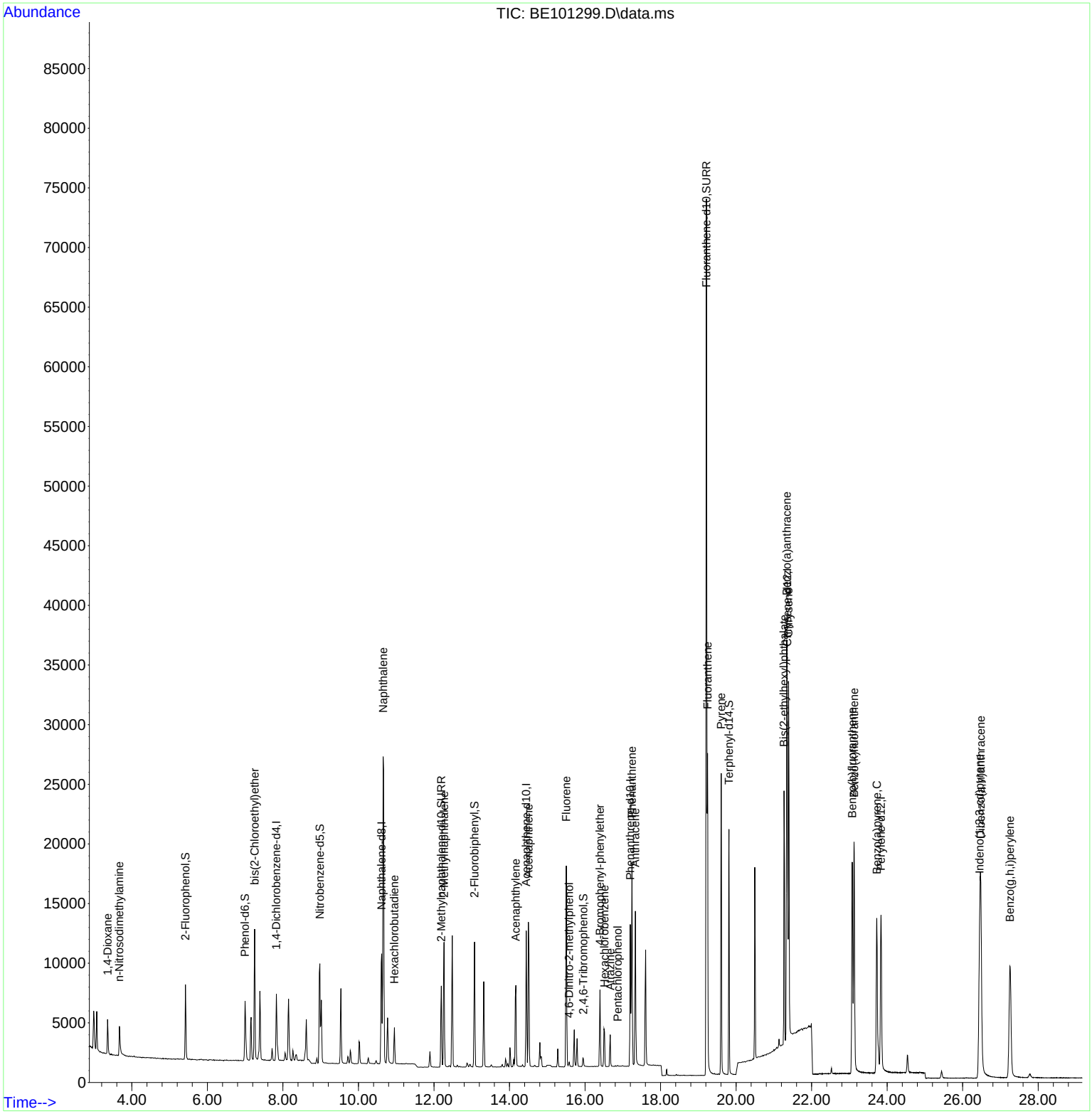
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

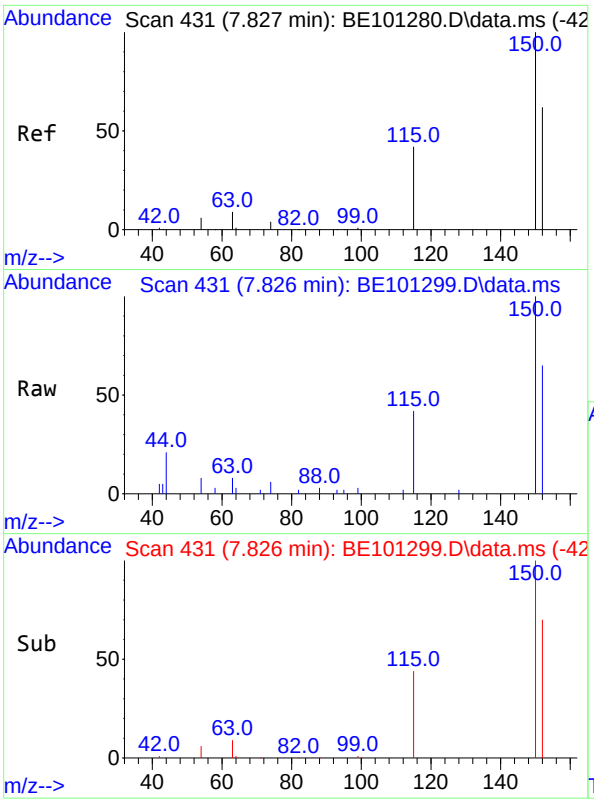
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE041421\
Data File : BE101299.D
Acq On : 14 Apr 2021 13:13
Operator : CG/JU
Sample : PB135708BSD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB135708BSD

Quant Time: Apr 14 14:06:51 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-SIM-BE041221.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 12 18:02:55 2021
Response via : Initial Calibration



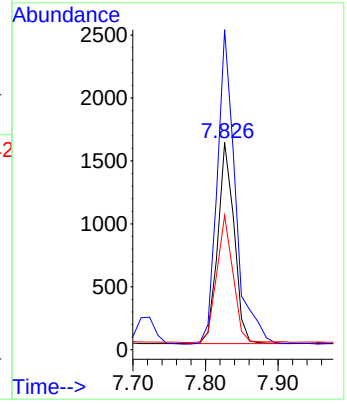
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

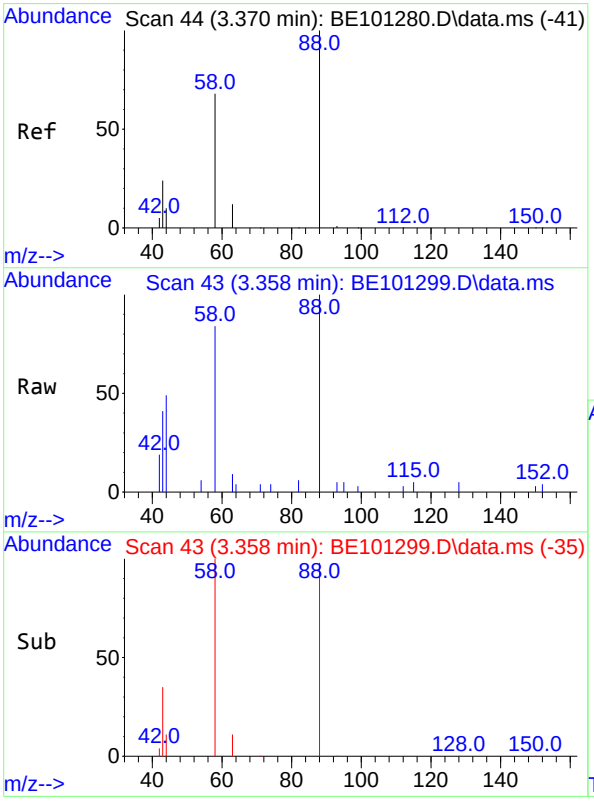


#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.826 min Scan# 431
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:152 Resp: 2499

Ion	Ratio	Lower	Upper
152	100		
150	154.4	116.9	175.3
115	64.8	44.5	66.7

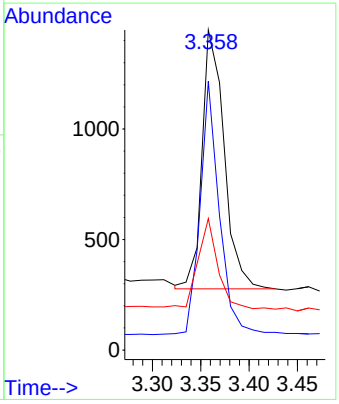




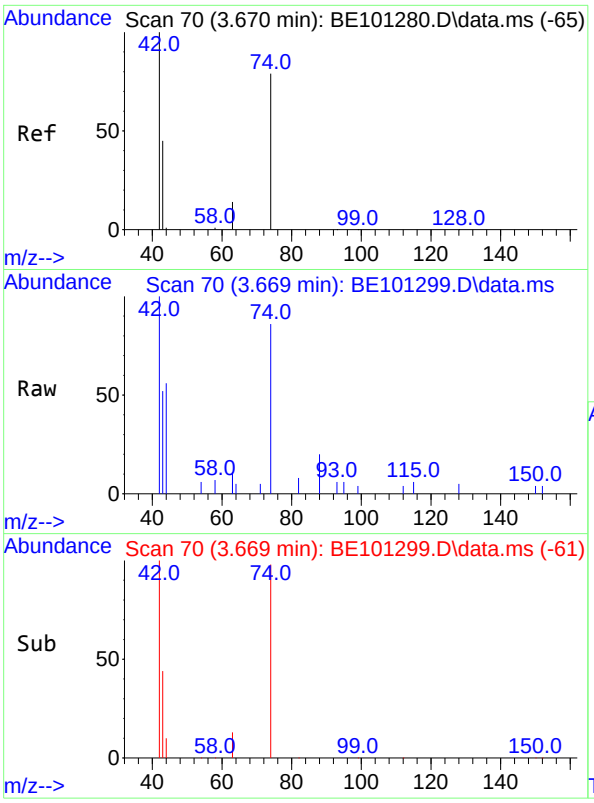
#2
1,4-Dioxane
Concen: 0.43 ng
RT: 3.358 min Scan# 43
Delta R.T. -0.013 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion: 88 Resp: 1854

Ion	Ratio	Lower	Upper
88	100		
58	85.1	73.6	110.4
43	31.9	27.6	41.4



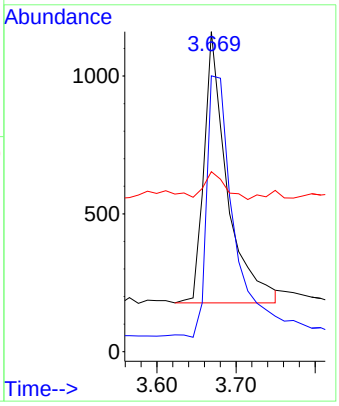
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

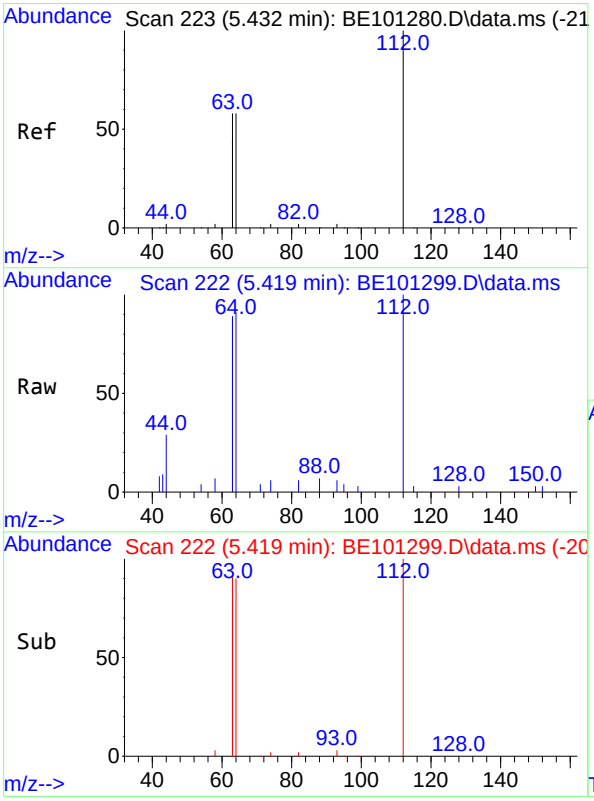


#3
n-Nitrosodimethylamine
Concen: 0.41 ng
RT: 3.669 min Scan# 70
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion: 42 Resp: 1988

Ion	Ratio	Lower	Upper
42	100		
74	112.6	92.7	139.1
44	9.0	10.7	16.1#

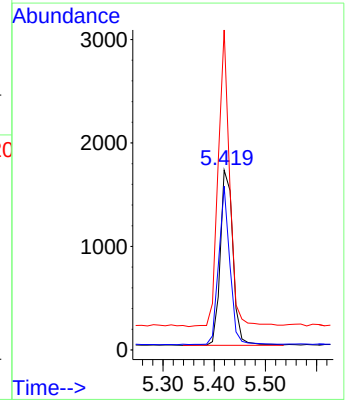




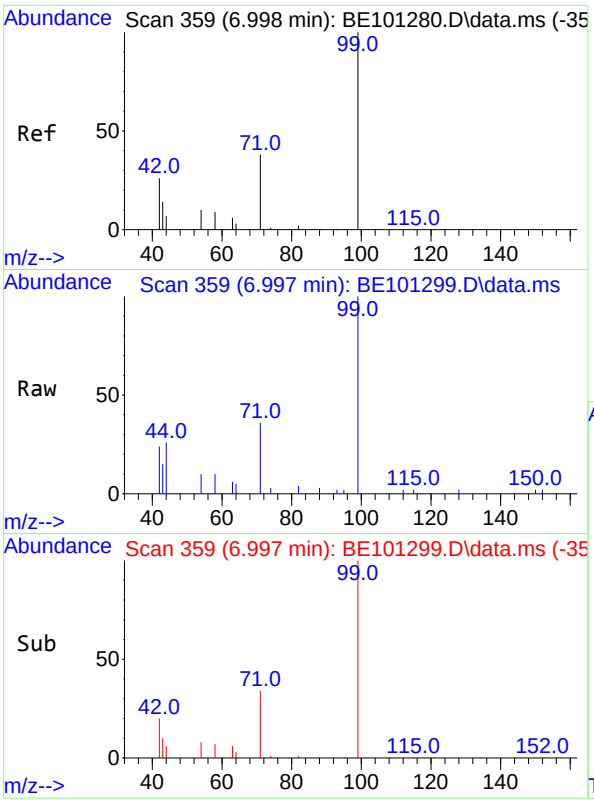
#4
2-Fluorophenol
Concen: 0.39 ng
RT: 5.419 min Scan# 222
Delta R.T. -0.013 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:112 Resp: 2907

Ion	Ratio	Lower	Upper
112	100		
64	80.0	62.3	93.5
63	153.5	117.3	175.9



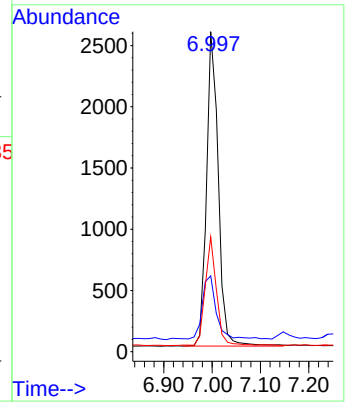
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

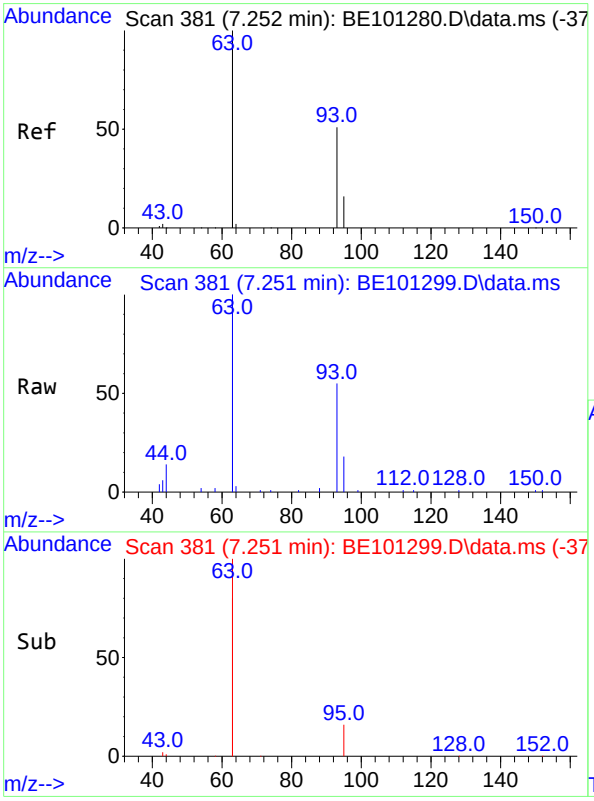


#5
Phenol-d6
Concen: 0.39 ng
RT: 6.997 min Scan# 359
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion: 99 Resp: 4348

Ion	Ratio	Lower	Upper
99	100		
42	23.4	18.5	27.7
71	32.9	26.5	39.7

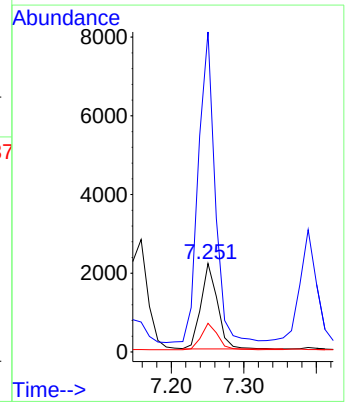




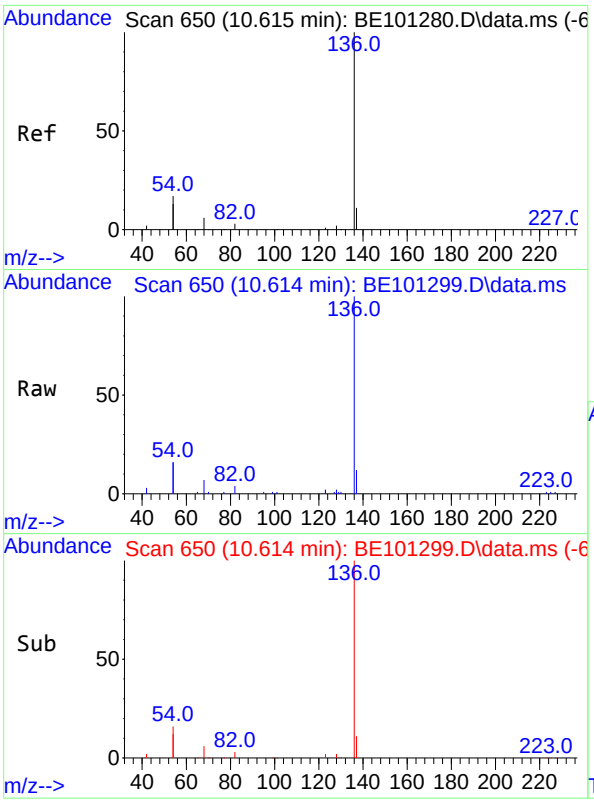
#6
bis(2-Chloroethyl)ether
Concen: 0.40 ng
RT: 7.251 min Scan# 381
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion: 93 Resp: 3439

Ion	Ratio	Lower	Upper
93	100		
63	366.5	292.5	438.7
95	31.5	25.7	38.5



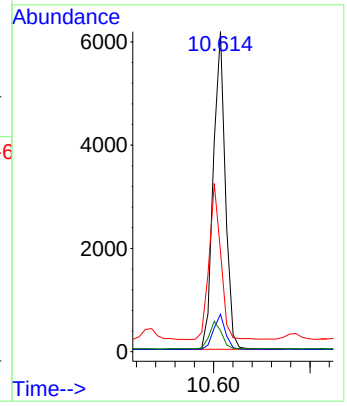
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

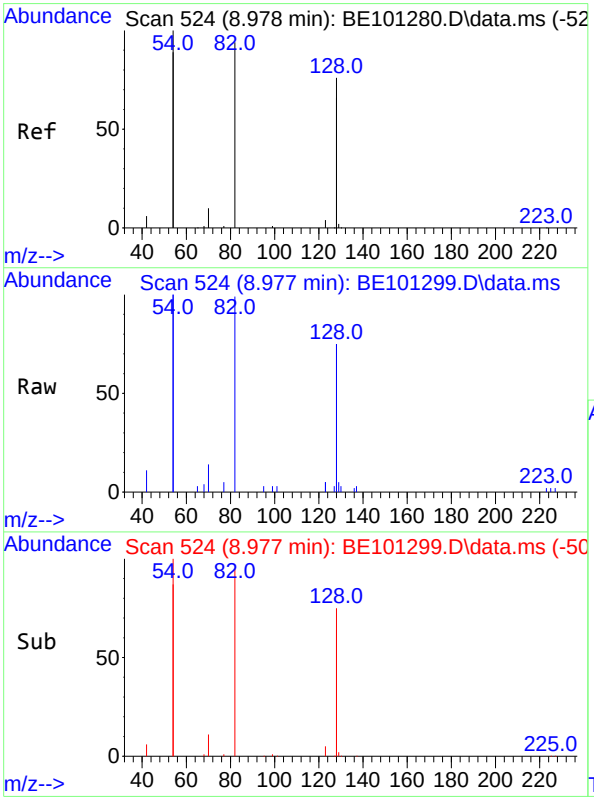


#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.614 min Scan# 650
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:136 Resp: 10633

Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.6	13.0
54	31.3	34.7	52.1#
68	6.6	7.0	10.4#

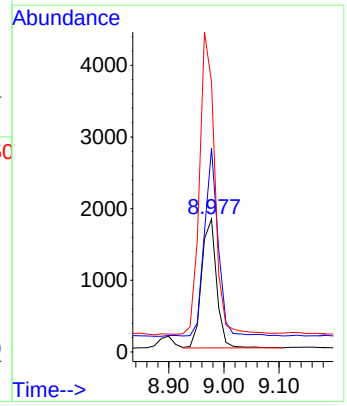




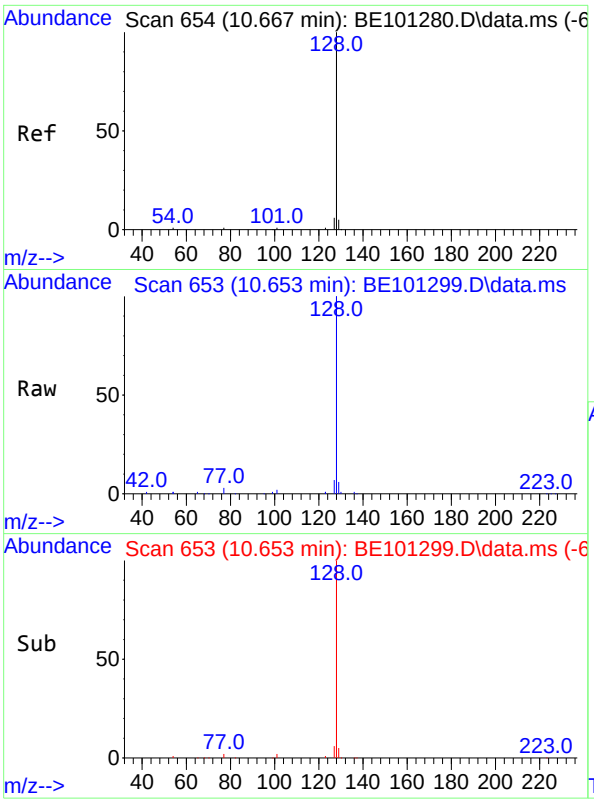
#8
Nitrobenzene-d5
Concen: 0.35 ng
RT: 8.977 min Scan# 524
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion: 82 Resp: 3394

Ion	Ratio	Lower	Upper
82	100		
128	153.0	118.7	178.1
54	202.9	164.4	246.6



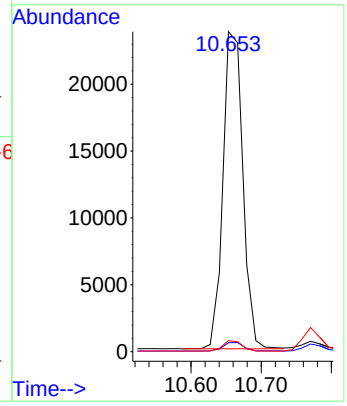
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

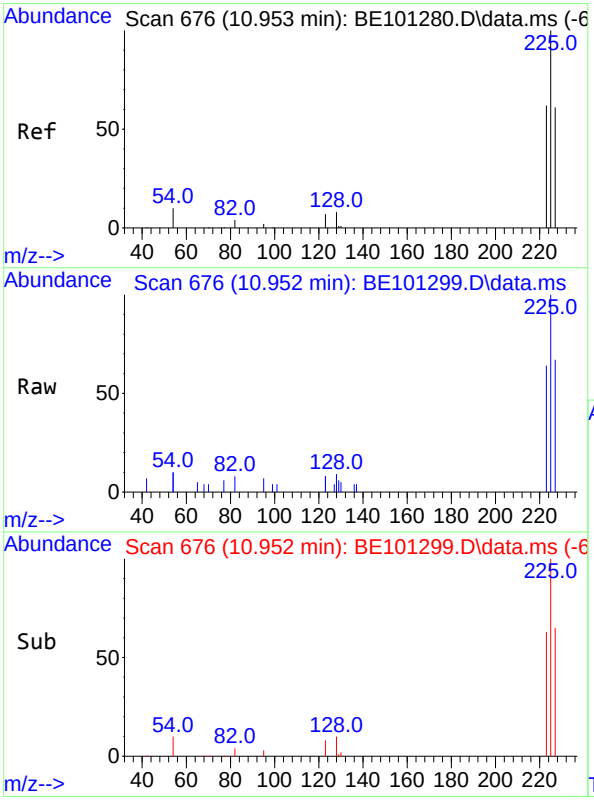


#9
Naphthalene
Concen: 0.41 ng
RT: 10.653 min Scan# 653
Delta R.T. -0.014 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:128 Resp: 46586

Ion	Ratio	Lower	Upper
128	100		
129	2.8	2.2	3.4
127	3.4	2.6	3.8

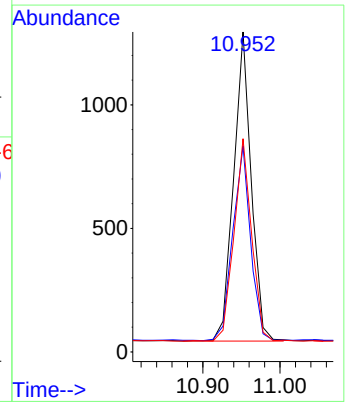




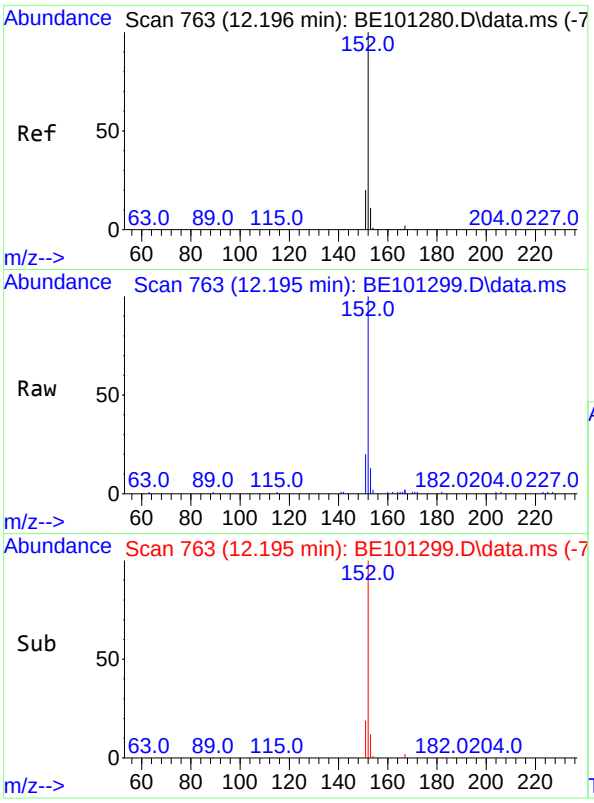
#10
Hexachlorobutadiene
Concen: 0.40 ng
RT: 10.952 min Scan# 676
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:225 Resp: 1985

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.4	75.6
227	65.5	50.1	75.1



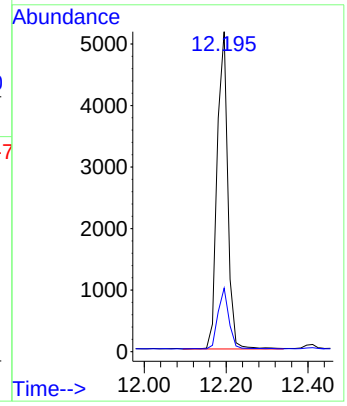
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

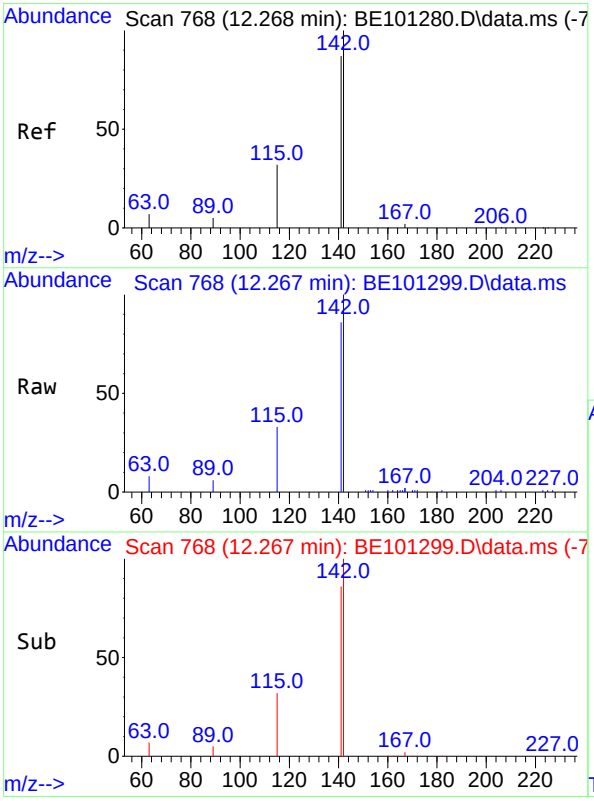


#11
2-Methylnaphthalene-d10
Concen: 0.38 ng
RT: 12.195 min Scan# 763
Delta R.T. -0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:152 Resp: 9270

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.5	24.7

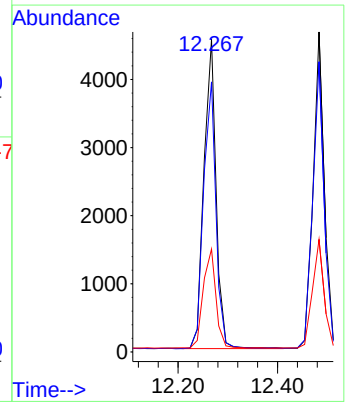


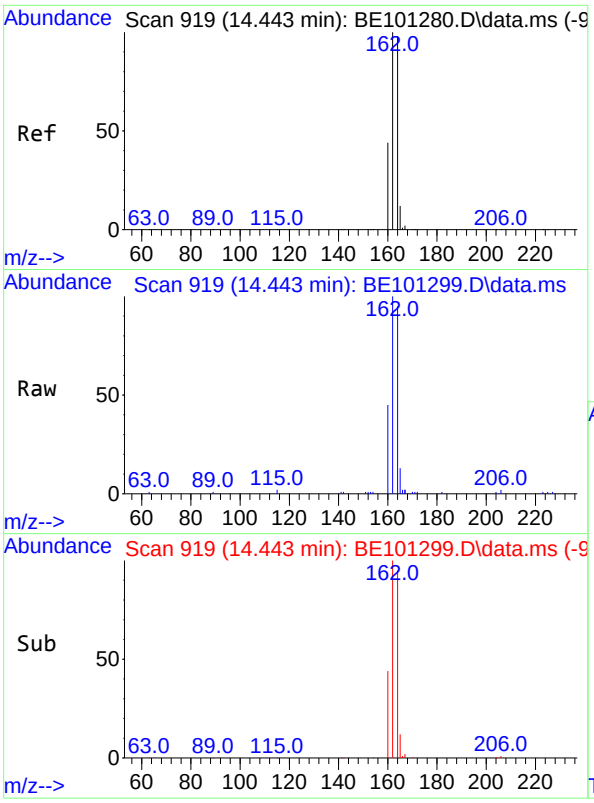


#12
2-Methylnaphthalene
Concen: 0.38 ng
RT: 12.267 min Scan# 768
Delta R.T. -0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:142 Resp: 7722

Ion	Ratio	Lower	Upper
142	100		
141	86.4	73.0	109.6
115	32.9	27.8	41.8

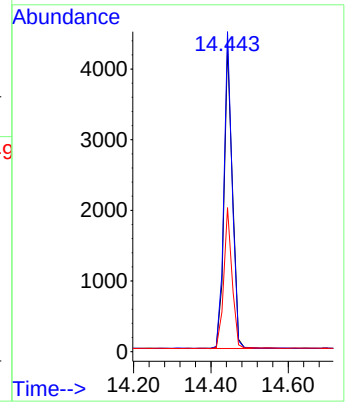




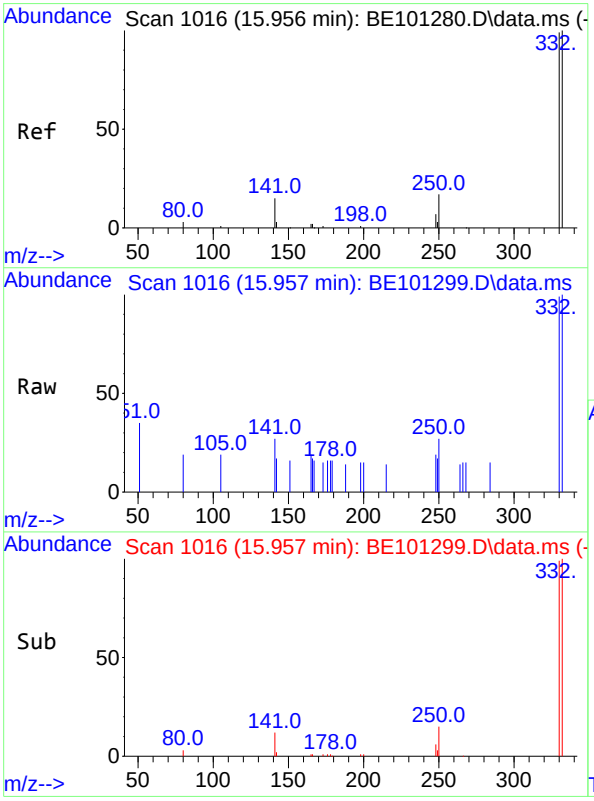
#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.443 min Scan# 919
Delta R.T. -0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:164 Resp: 6408

Ion	Ratio	Lower	Upper
164	100		
162	104.8	85.3	127.9
160	47.1	39.1	58.7



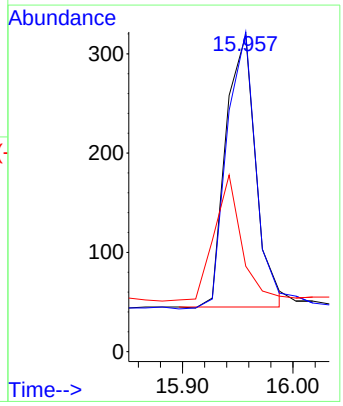
Instrument :
BNA_E
ClientSampleId :
PB135708BSD



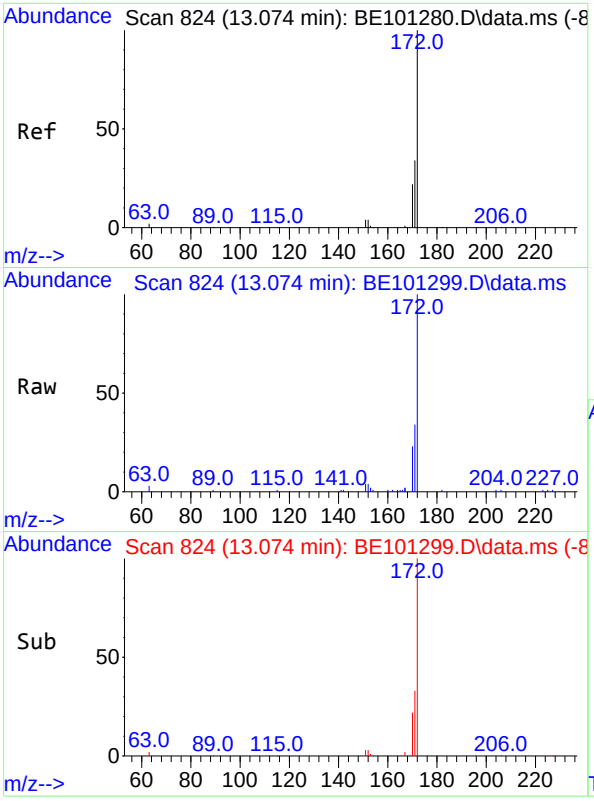
#14
2,4,6-Tribromophenol
Concen: 0.27 ng
RT: 15.957 min Scan# 1016
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:330 Resp: 516

Ion	Ratio	Lower	Upper
330	100		
332	99.4	77.8	116.6
141	42.4	30.4	45.6



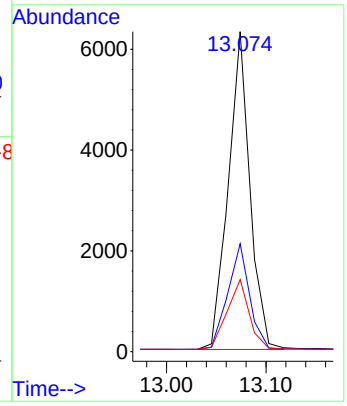
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

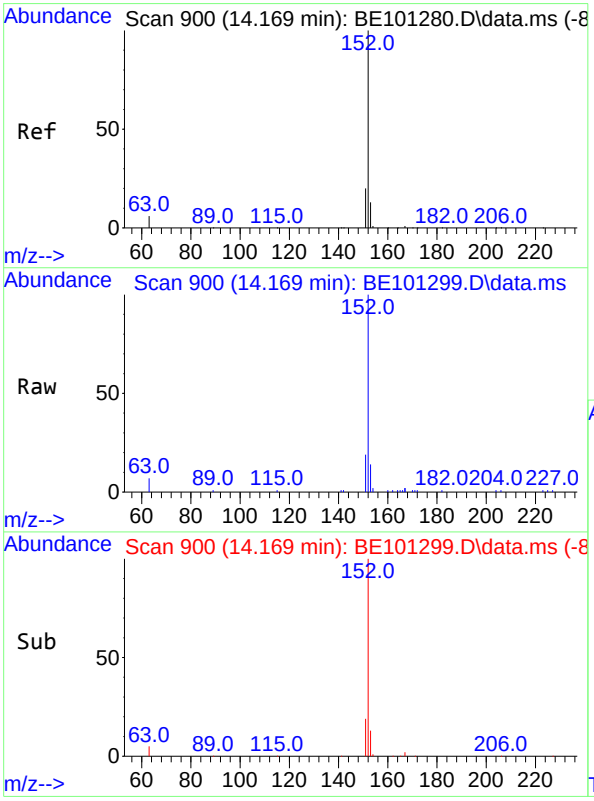


#15
2-Fluorobiphenyl
Concen: 0.43 ng
RT: 13.074 min Scan# 824
Delta R.T. -0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:172 Resp: 9528

Ion	Ratio	Lower	Upper
172	100		
171	33.7	28.7	43.1
170	22.6	19.3	28.9

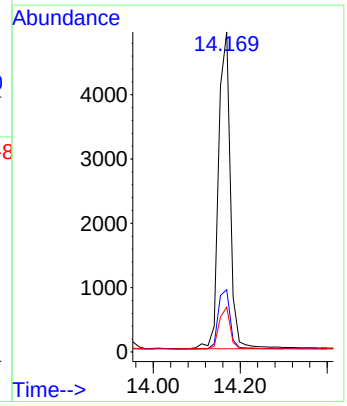




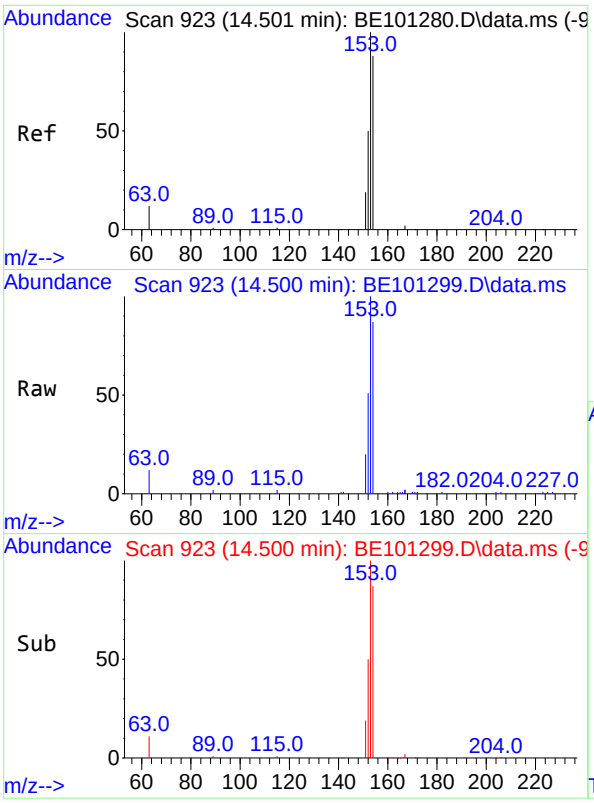
#16
Acenaphthylene
Concen: 0.35 ng
RT: 14.169 min Scan# 900
Delta R.T. -0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:152 Resp: 9228

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.4	23.2
153	12.5	10.0	15.0



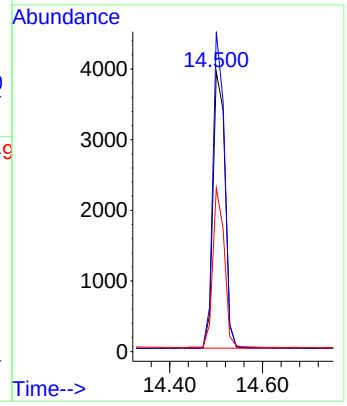
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

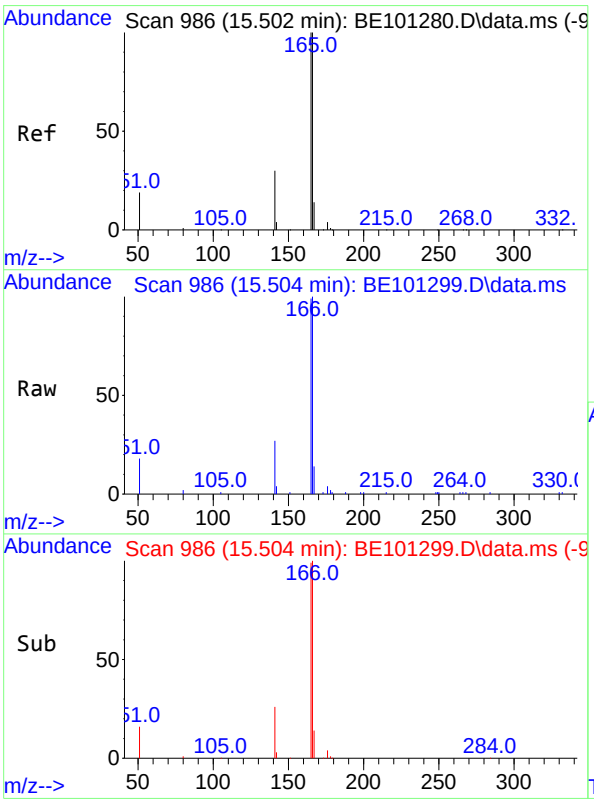


#17
Acenaphthene
Concen: 0.39 ng
RT: 14.500 min Scan# 923
Delta R.T. -0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:154 Resp: 7046

Ion	Ratio	Lower	Upper
154	100		
153	109.8	84.9	127.3
152	55.5	42.7	64.1

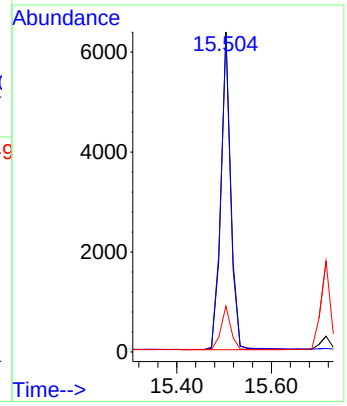




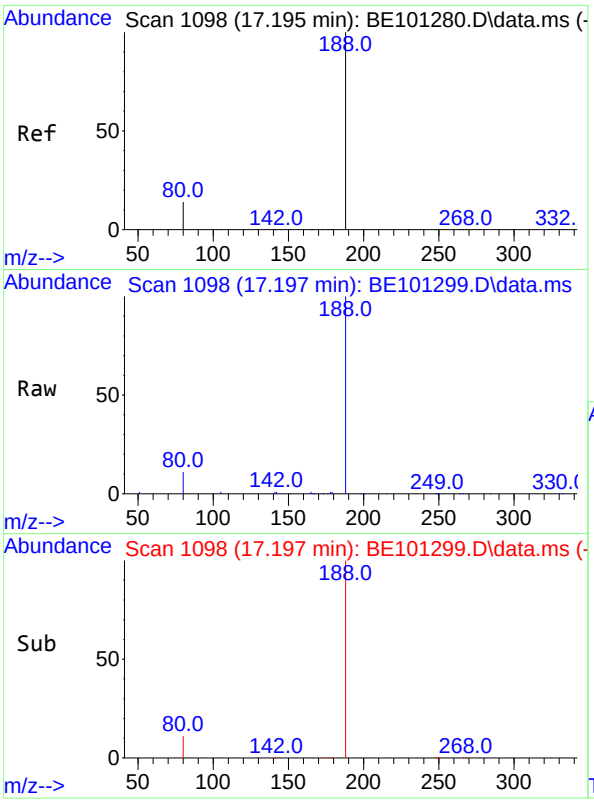
#18
Fluorene
Concen: 0.38 ng
RT: 15.504 min Scan# 986
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:166 Resp: 9148

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.0	118.4
167	13.7	11.0	16.4



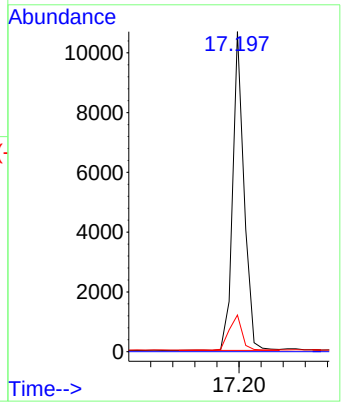
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

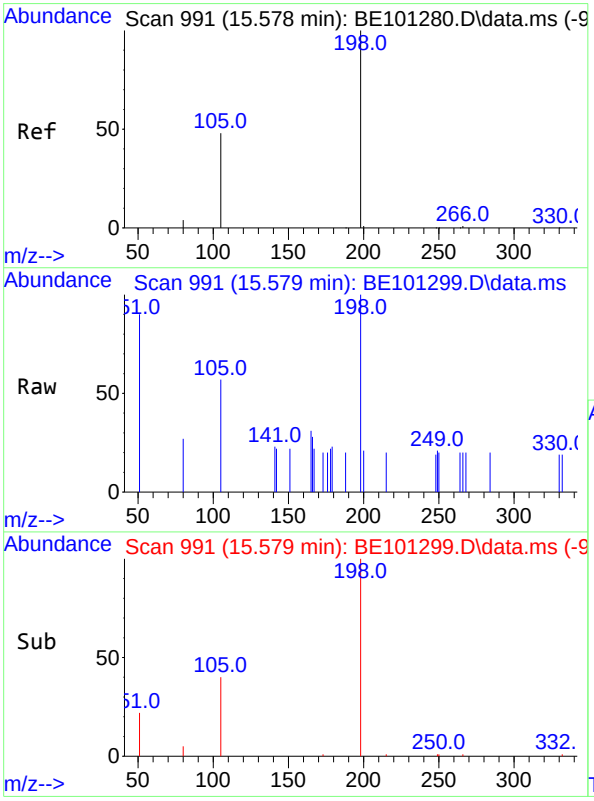


#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.197 min Scan# 1098
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:188 Resp: 15212

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	4.6	6.8#

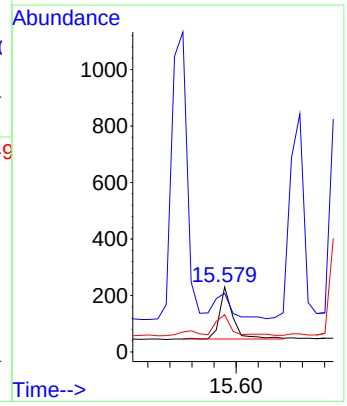




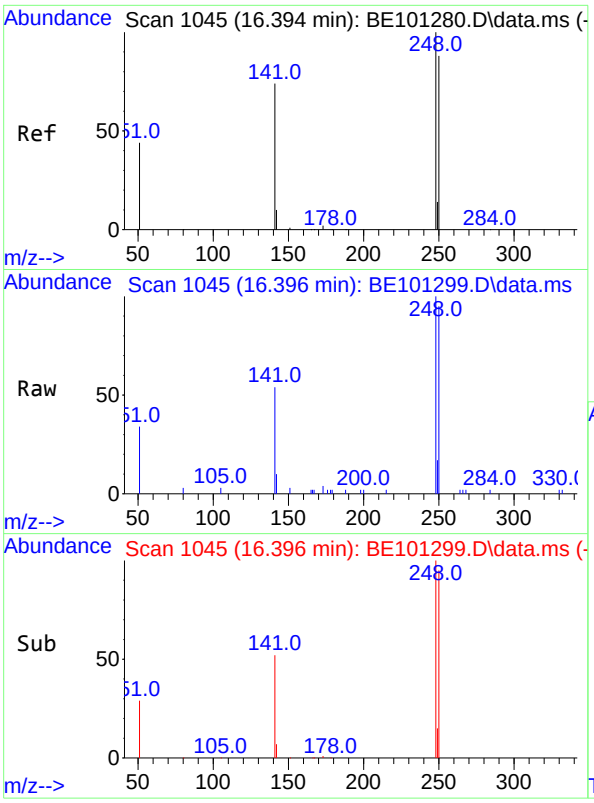
#20
4,6-Dinitro-2-methylphenol
Concen: 0.32 ng
RT: 15.579 min Scan# 991
Delta R.T. 0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:198 Resp: 305

Ion	Ratio	Lower	Upper
198	100		
51	90.4	55.9	83.9#
105	57.4	33.6	50.4#



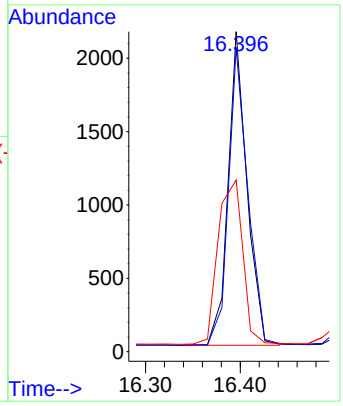
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

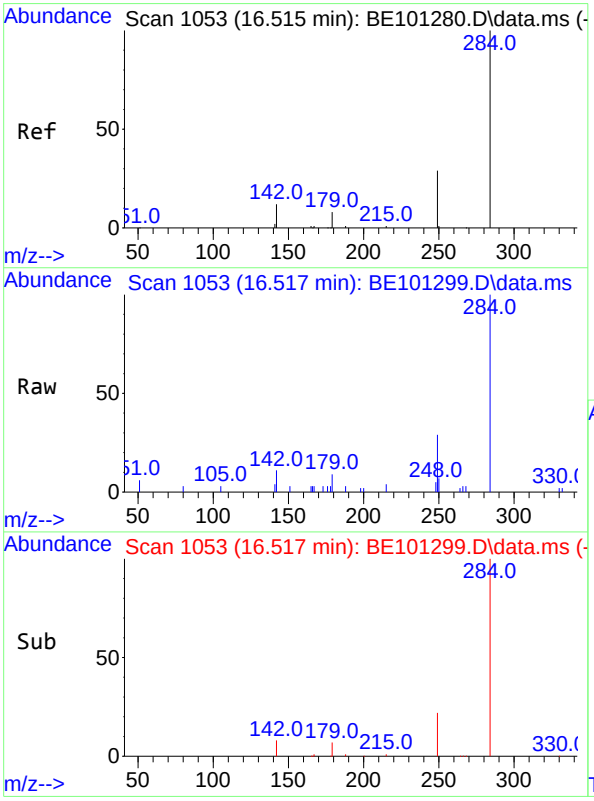


#21
4-Bromophenyl-phenylether
Concen: 0.38 ng
RT: 16.396 min Scan# 1045
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:248 Resp: 2950

Ion	Ratio	Lower	Upper
248	100		
250	95.0	84.5	126.7
141	53.6	19.8	29.8#

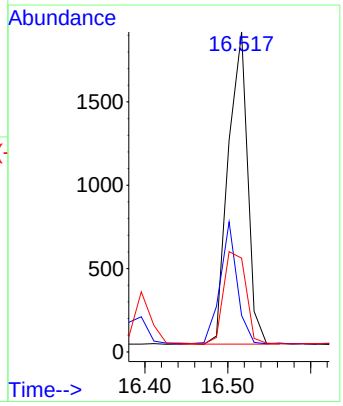




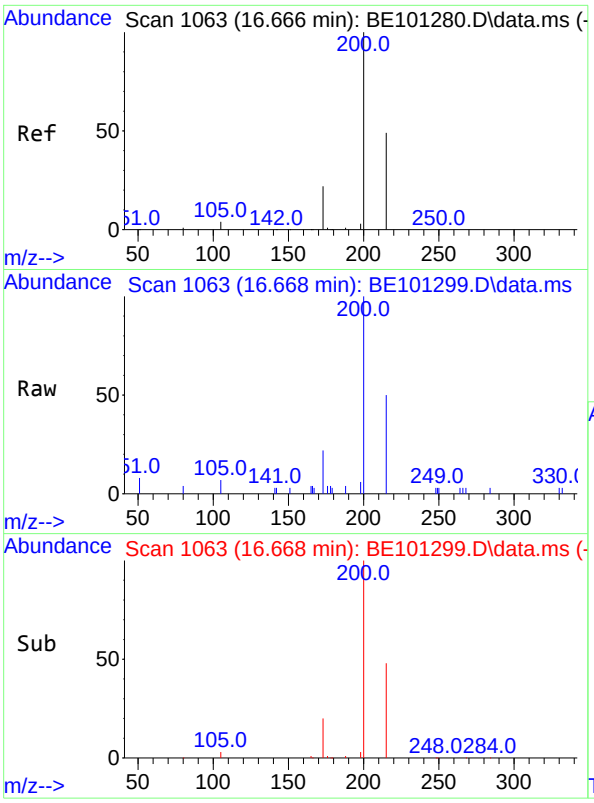
#22
Hexachlorobenzene
Concen: 0.40 ng
RT: 16.517 min Scan# 1053
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:284 Resp: 3041

Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.4	41.0
249	33.8	26.5	39.7



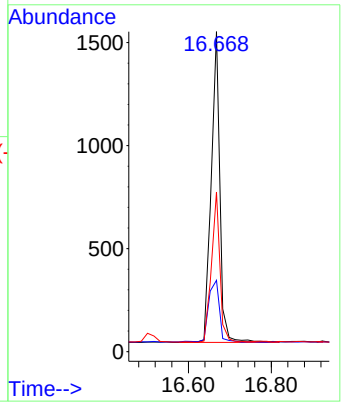
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

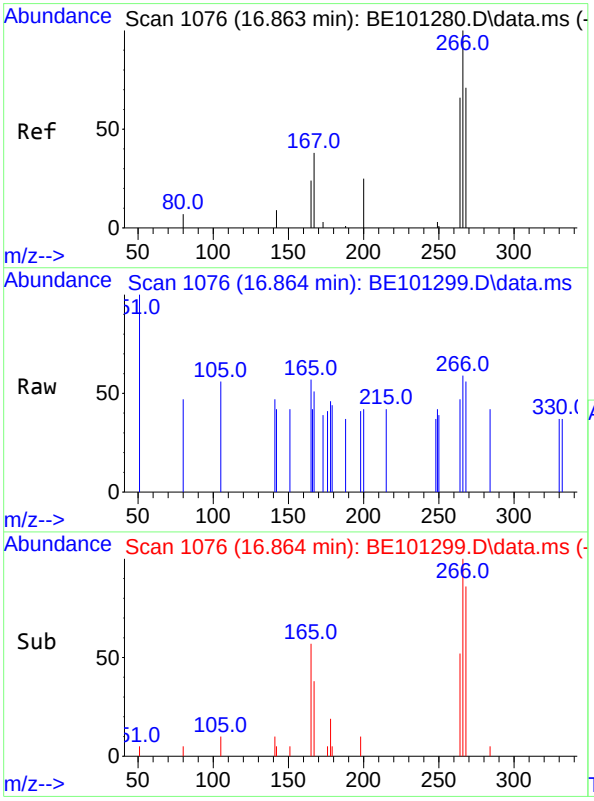


#23
Atrazine
Concen: 0.32 ng
RT: 16.668 min Scan# 1063
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:200 Resp: 2194

Ion	Ratio	Lower	Upper
200	100		
173	22.3	21.9	32.9
215	49.9	38.6	57.8

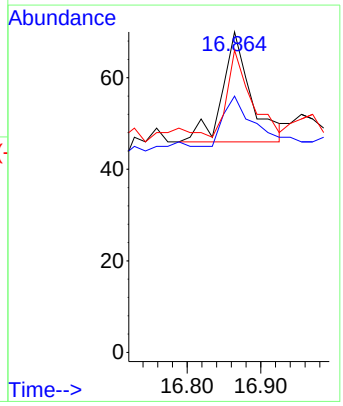




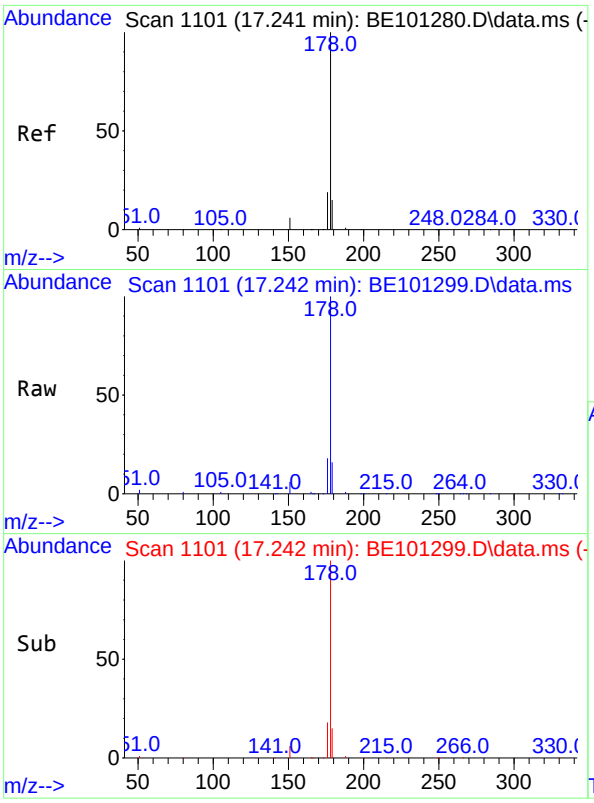
#24
Pentachlorophenol
Concen: 0.32 ng
RT: 16.864 min Scan# 1076
Delta R.T. 0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:266 Resp: 64

Ion	Ratio	Lower	Upper
266	100		
264	53.1	49.1	73.7
268	65.6	50.6	76.0



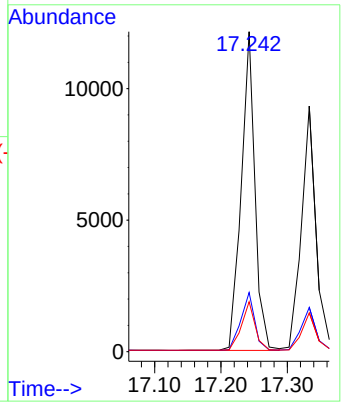
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

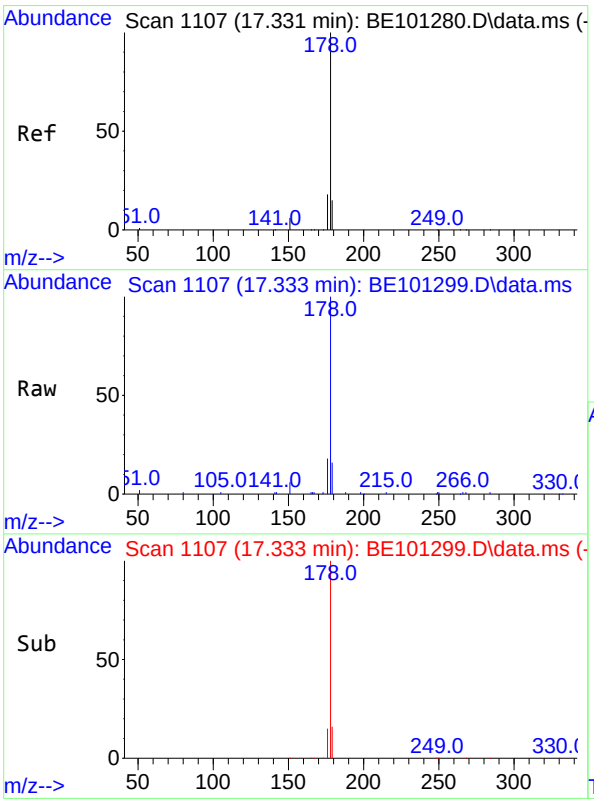


#25
Phenanthrene
Concen: 0.39 ng
RT: 17.242 min Scan# 1101
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:178 Resp: 17425

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.2	18.4

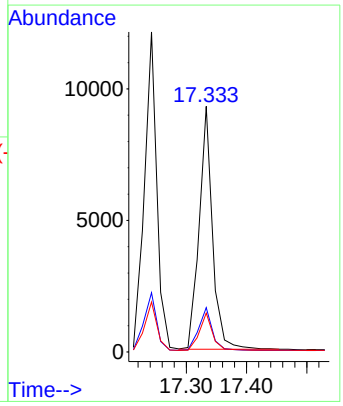




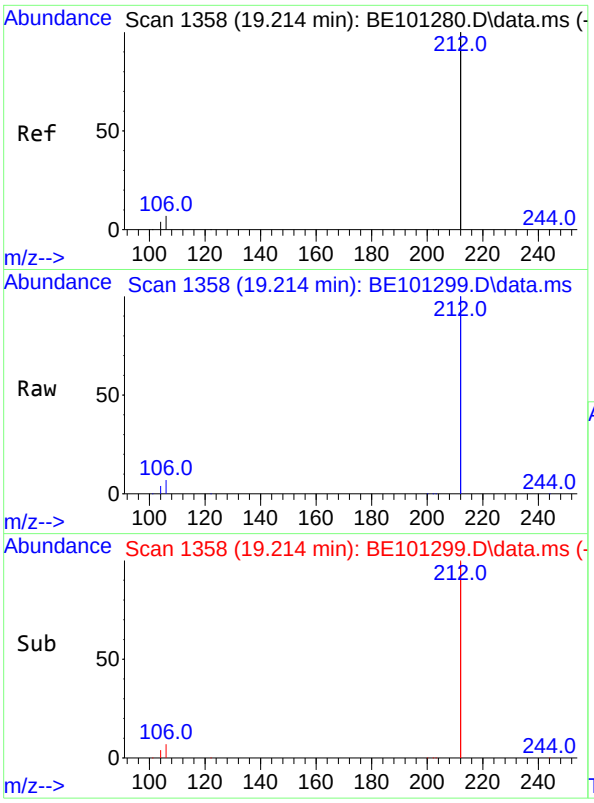
#26
Anthracene
Concen: 0.36 ng
RT: 17.333 min Scan# 1107
Delta R.T. 0.002 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:178 Resp: 14165

Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.4	21.6
179	15.2	11.8	17.8



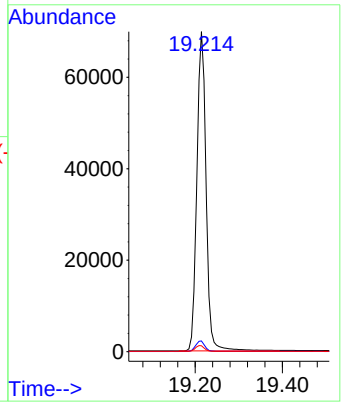
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

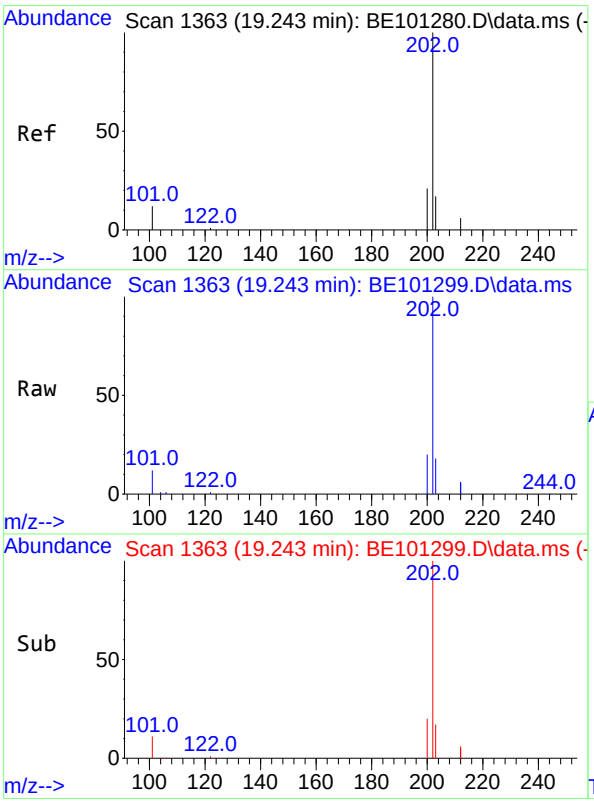


#27
Fluoranthene-d10
Concen: 0.38 ng
RT: 19.214 min Scan# 1358
Delta R.T. 0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:212 Resp: 102321

Ion	Ratio	Lower	Upper
212	100		
106	3.3	2.6	4.0
104	1.8	1.4	2.2

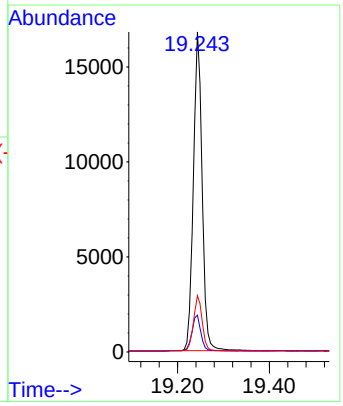




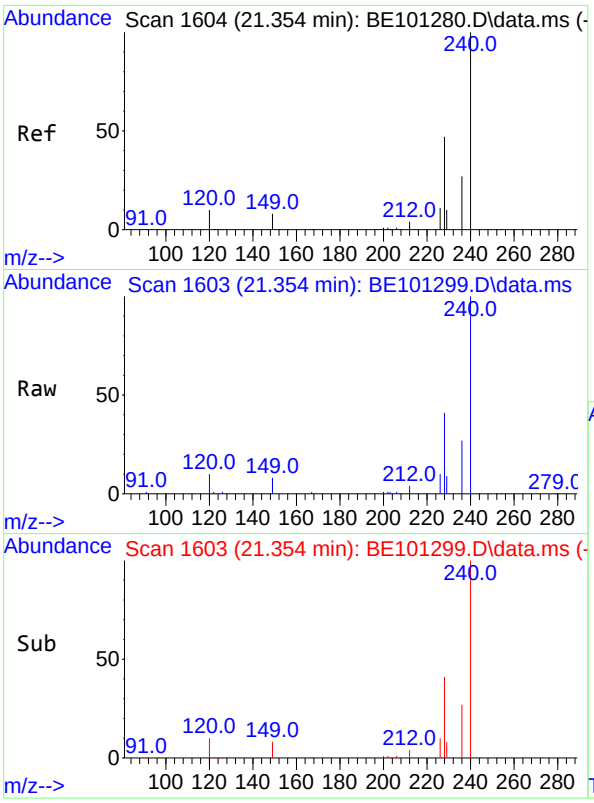
#28
Fluoranthene
Concen: 0.38 ng
RT: 19.243 min Scan# 1363
Delta R.T. 0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:202 Resp: 22198

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.1	13.7
203	17.1	13.6	20.4



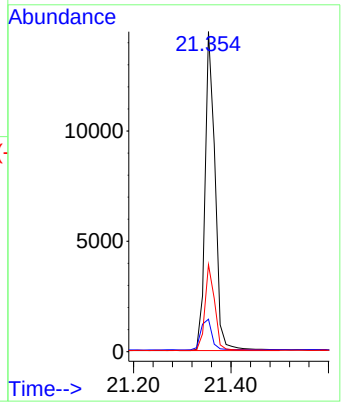
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

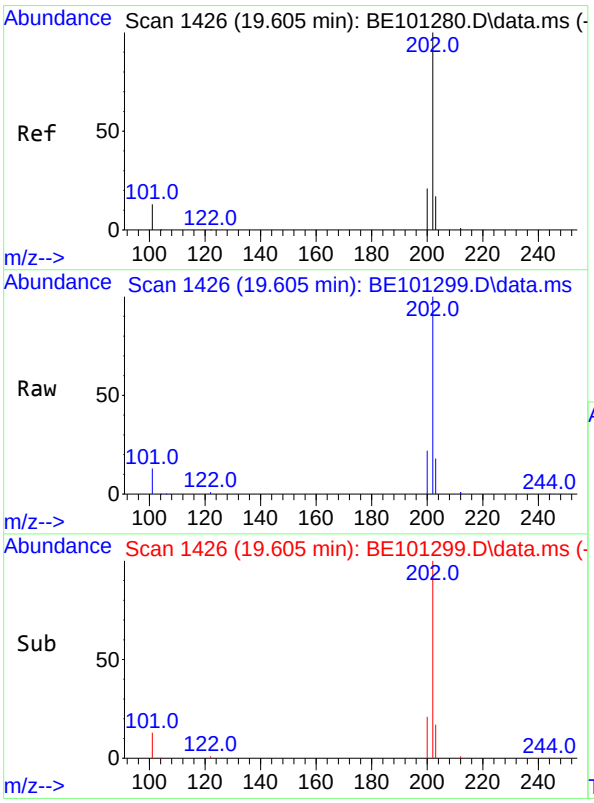


#29
Chrysene-d12
Concen: 0.40 ng
RT: 21.354 min Scan# 1603
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:240 Resp: 20664

Ion	Ratio	Lower	Upper
240	100		
120	10.1	10.2	15.4#
236	27.2	21.7	32.5

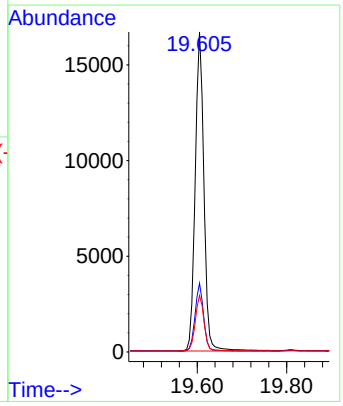




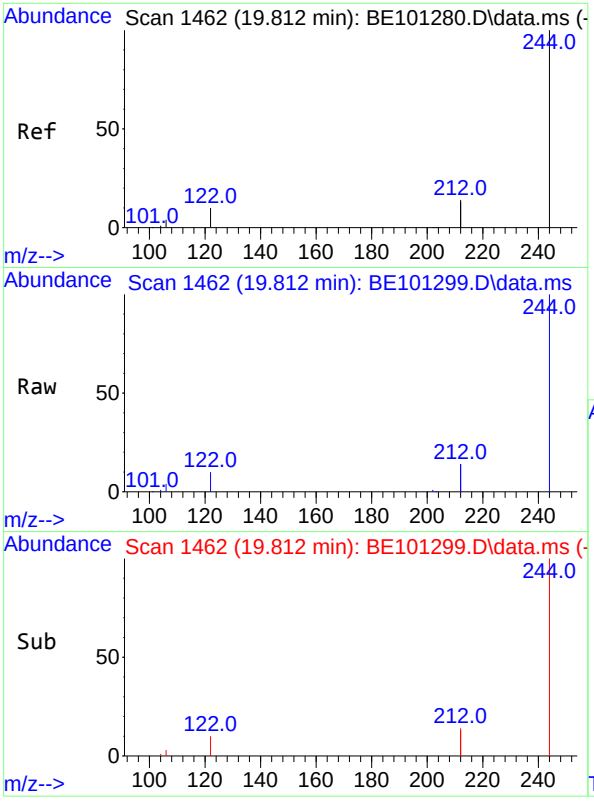
#30
Pyrene
Concen: 0.34 ng
RT: 19.605 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:202 Resp: 22645

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	17.6	13.8	20.8



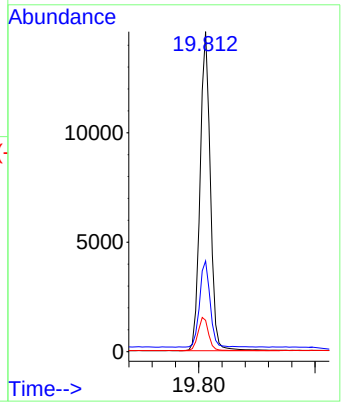
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

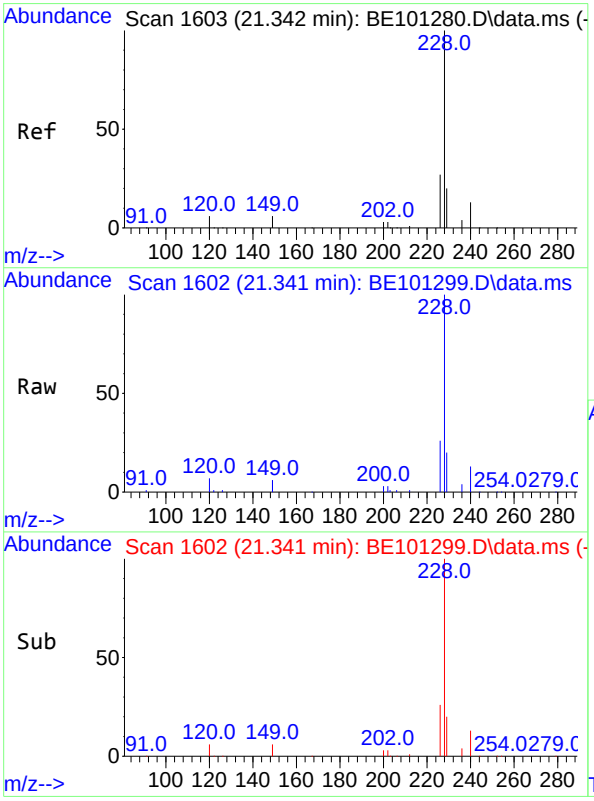


#31
Terphenyl-d14
Concen: 0.36 ng
RT: 19.812 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:244 Resp: 17868

Ion	Ratio	Lower	Upper
244	100		
212	28.3	21.9	32.9
122	9.8	7.3	10.9

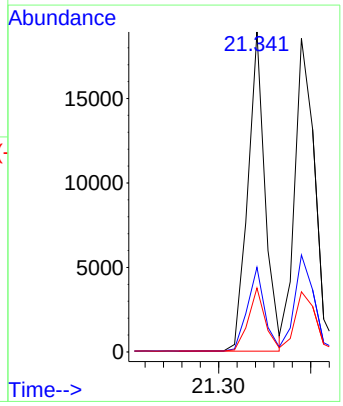




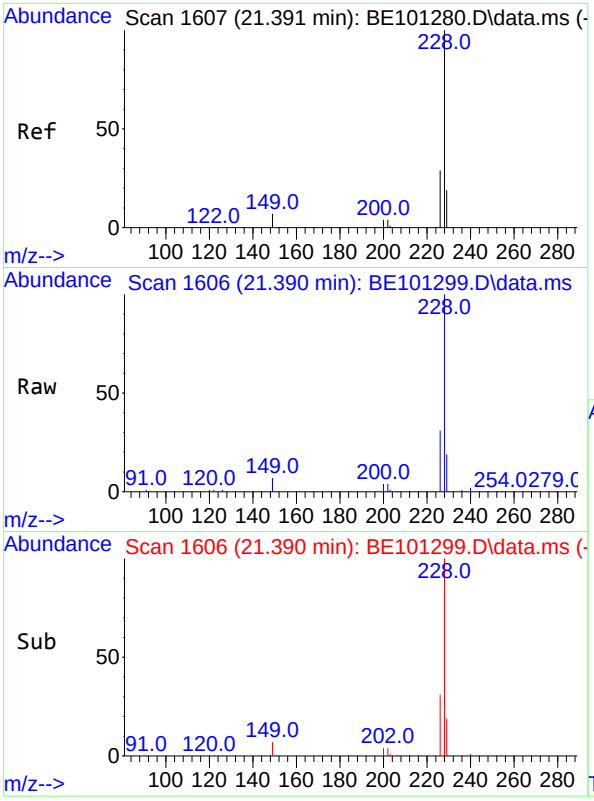
#32
Benzo(a)anthracene
Concen: 0.38 ng
RT: 21.341 min Scan# 1602
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:228 Resp: 24487

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.4	32.2
229	20.0	15.7	23.5



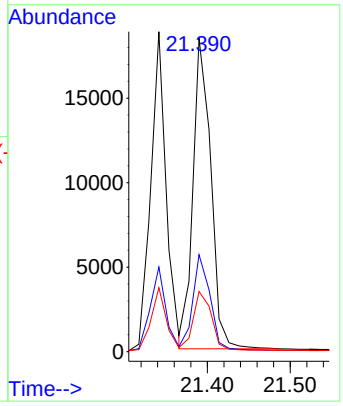
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

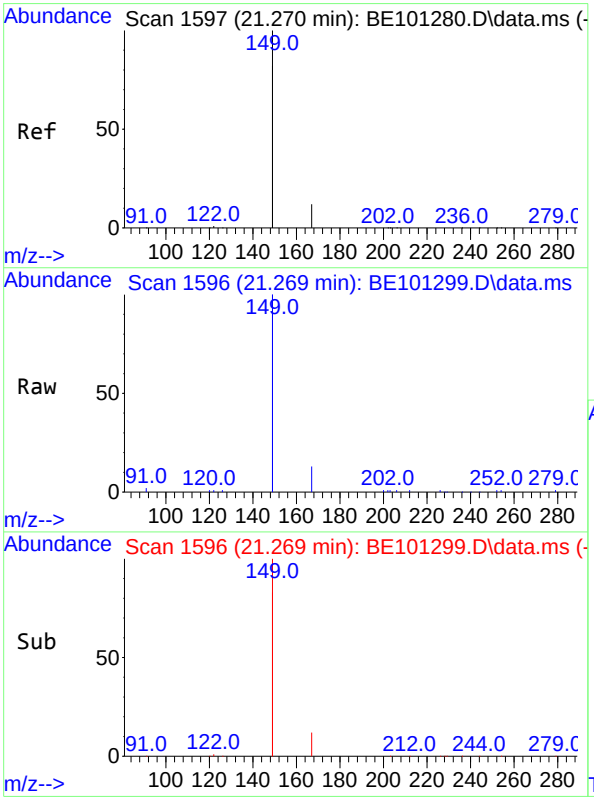


#33
Chrysene
Concen: 0.40 ng
RT: 21.390 min Scan# 1606
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:228 Resp: 27456

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.8	37.2
229	19.2	15.2	22.8

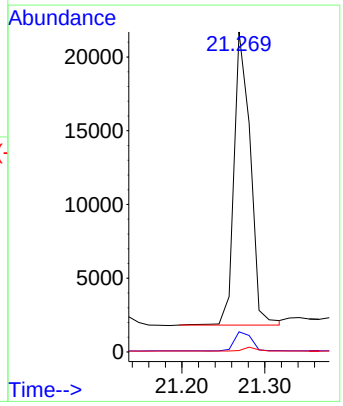




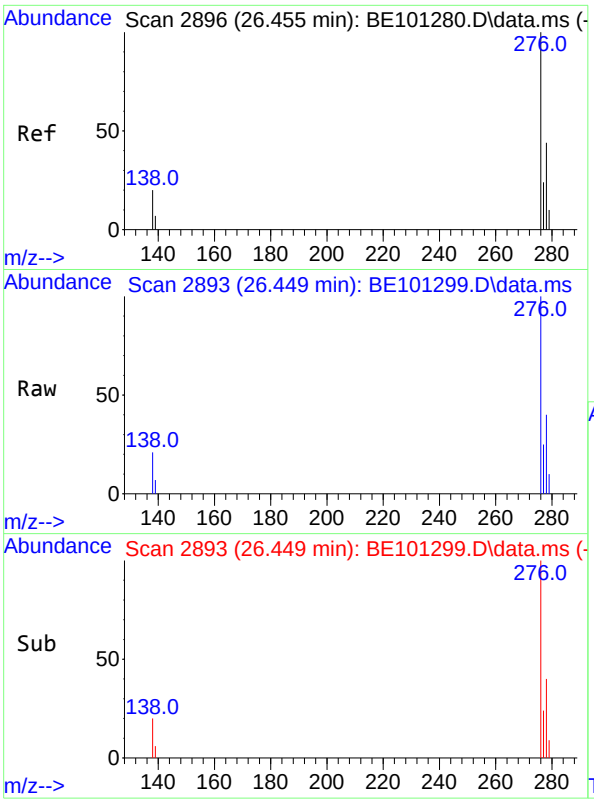
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.31 ng
RT: 21.269 min Scan# 1596
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:149 Resp: 27142

Ion	Ratio	Lower	Upper
149	100		
167	6.8	5.5	8.3
279	1.2	1.0	1.4



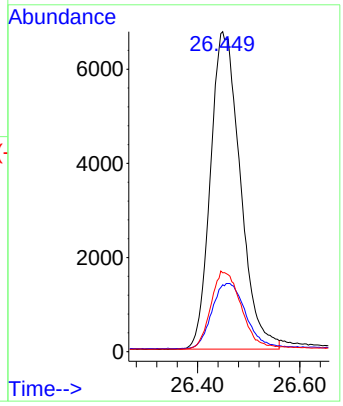
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

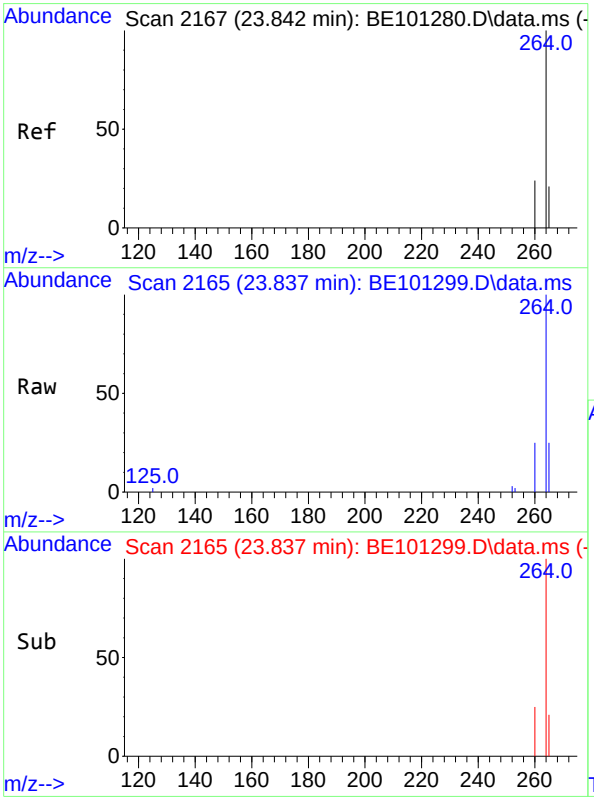


#35
Indeno(1,2,3-cd)pyrene
Concen: 0.41 ng
RT: 26.449 min Scan# 2893
Delta R.T. -0.006 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:276 Resp: 27265

Ion	Ratio	Lower	Upper
276	100		
138	23.3	17.4	26.0
277	25.0	19.8	29.8

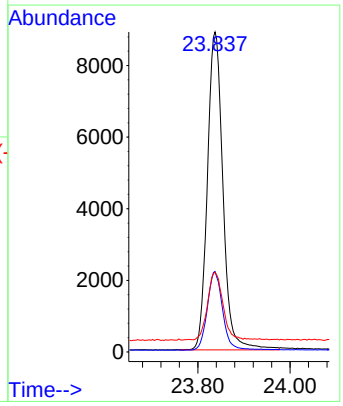




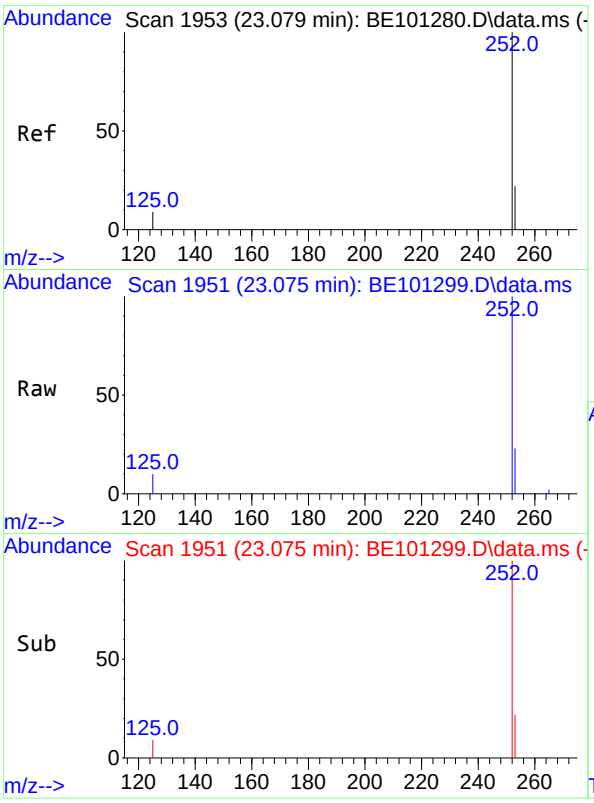
#36
Perylene-d12
Concen: 0.40 ng
RT: 23.837 min Scan# 2165
Delta R.T. -0.004 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:264 Resp: 20805

Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.3	28.9
265	24.9	22.4	33.6



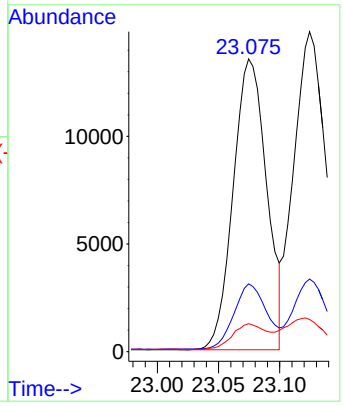
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

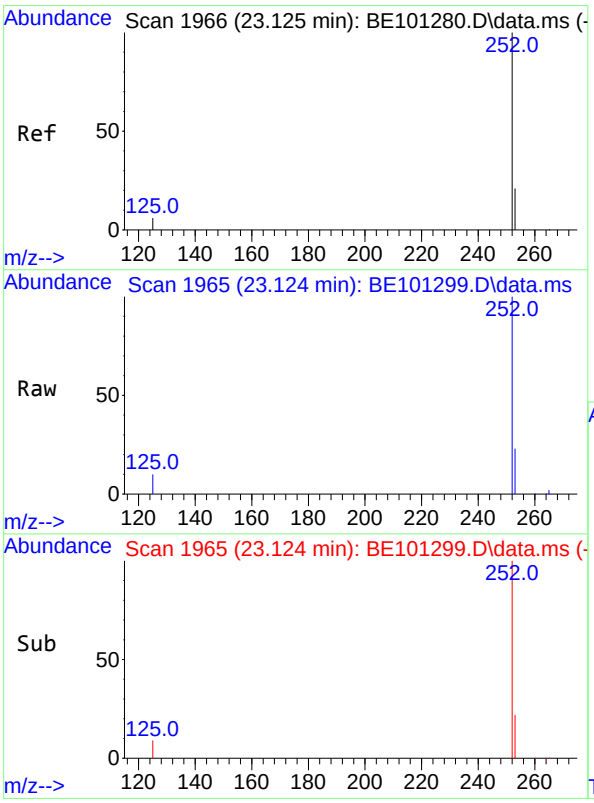


#37
Benzo(b)fluoranthene
Concen: 0.37 ng
RT: 23.075 min Scan# 1951
Delta R.T. -0.004 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:252 Resp: 25679

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	9.6	7.6	11.4

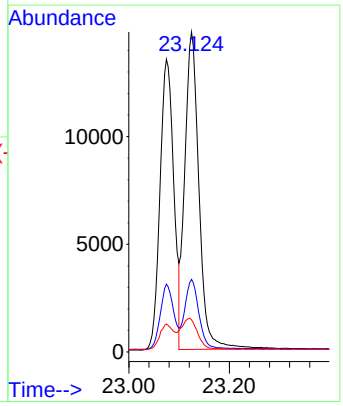




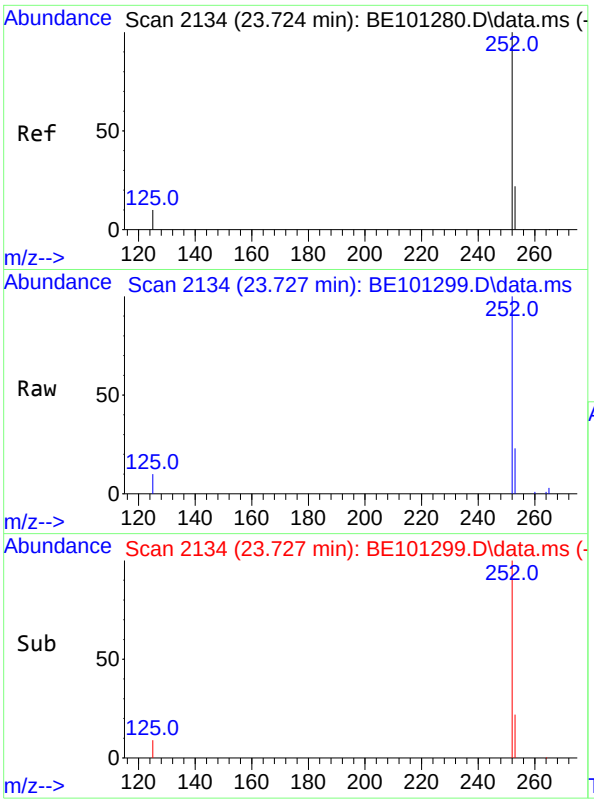
#38
Benzo(k)fluoranthene
Concen: 0.40 ng
RT: 23.124 min Scan# 1965
Delta R.T. -0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:252 Resp: 28916

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	10.0	7.6	11.4



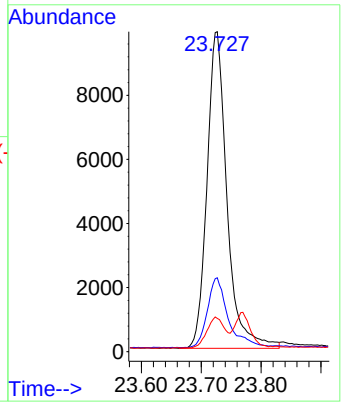
Instrument :
BNA_E
ClientSampleId :
PB135708BSD

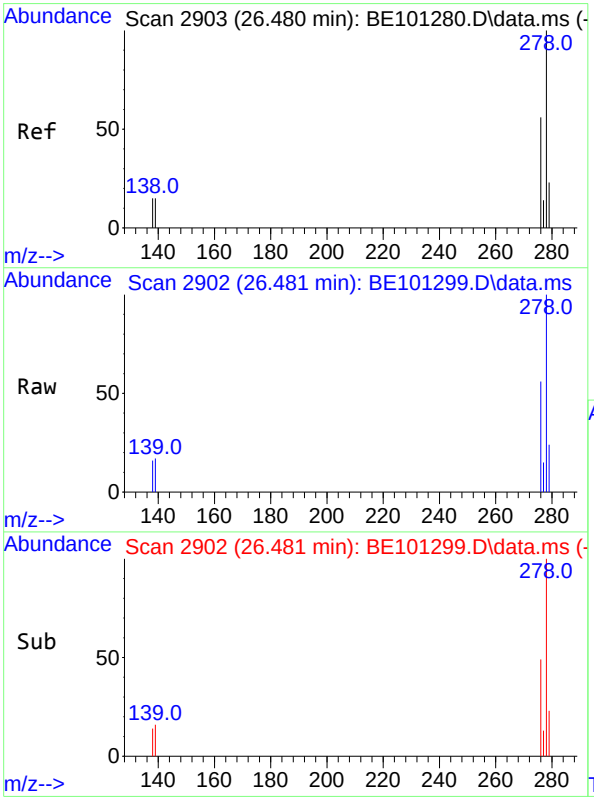


#39
Benzo(a)pyrene
Concen: 0.36 ng
RT: 23.727 min Scan# 2134
Delta R.T. 0.003 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:252 Resp: 22899

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	10.4	8.0	12.0

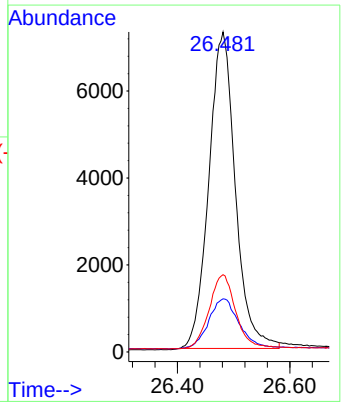


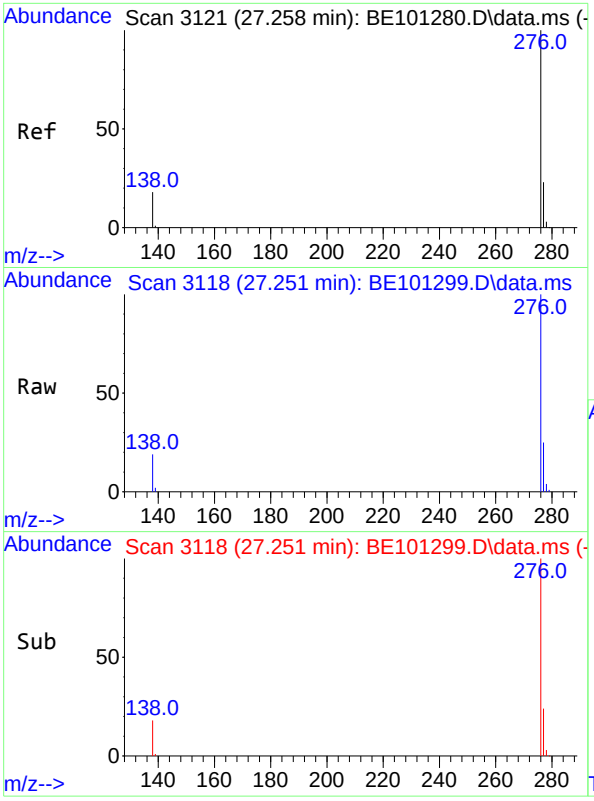


#40
Dibenzo(a,h)anthracene
Concen: 0.38 ng
RT: 26.481 min Scan# 2902
Delta R.T. 0.001 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:278 Resp: 23866

Ion	Ratio	Lower	Upper
278	100		
139	16.6	12.2	18.2
279	24.1	19.3	28.9

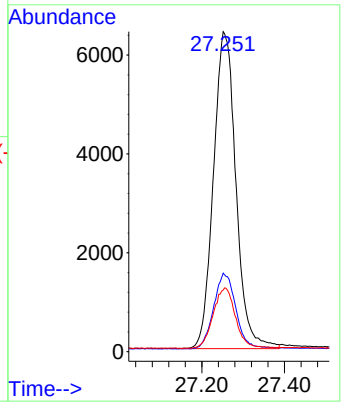




#41
Benzo(g,h,i)perylene
Concen: 0.38 ng
RT: 27.251 min Scan# 3118
Delta R.T. -0.006 min
Lab File: BE101299.D
Acq: 14 Apr 2021 13:13

Tgt Ion:276 Resp: 24201

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.4	29.0
138	19.2	15.2	22.8



Instrument :
BNA_E
ClientSampleId :
PB135708BSD