

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE020719\
 Data File : BE098719.D
 Acq On : 7 Feb 2019 10:37
 Operator : JU/SJ
 Sample : PB116867BSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB116867BSD

Quant Time: Feb 07 11:10:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE012419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 24 14:44:44 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

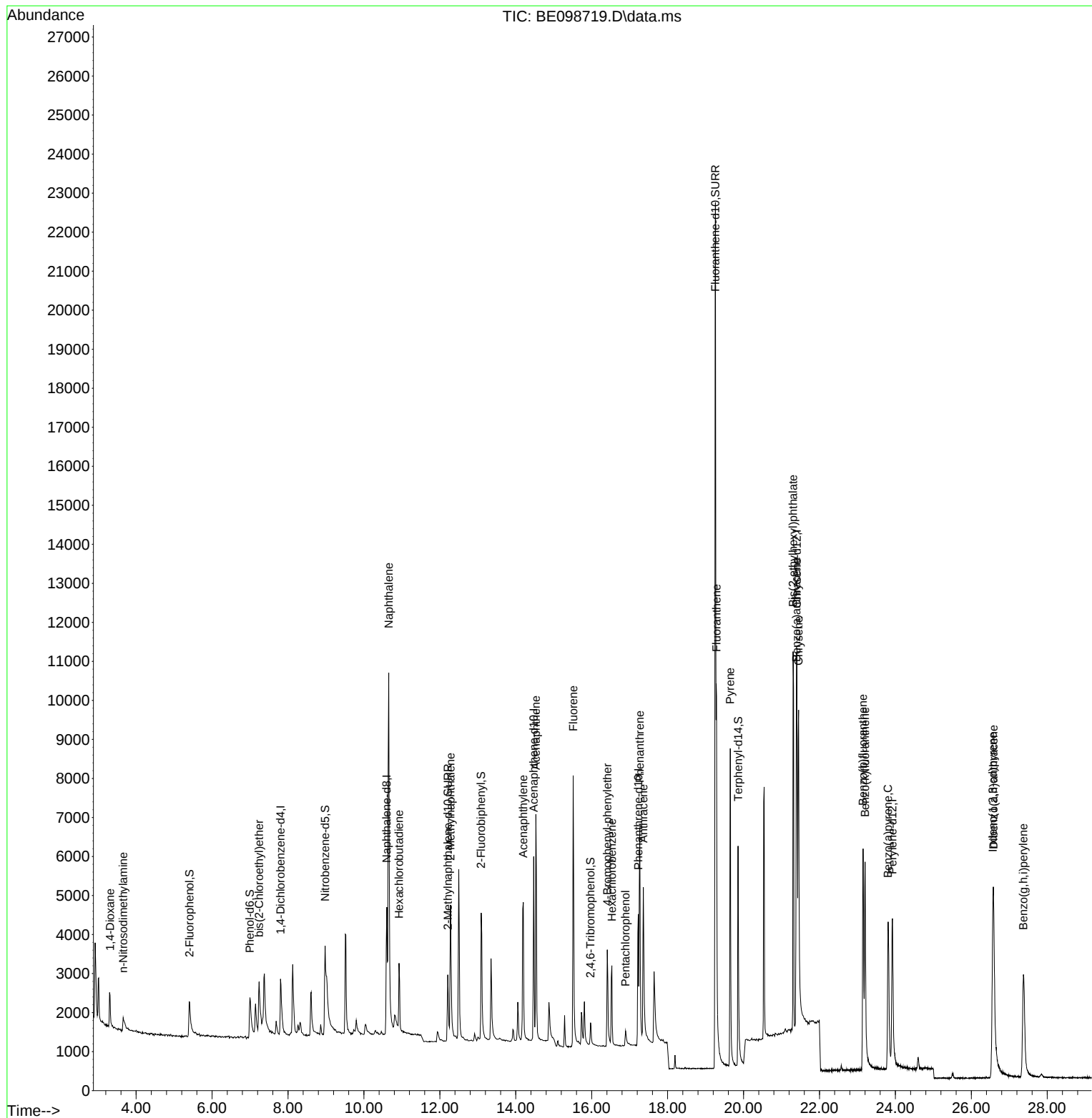
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	906	0.40	ng	0.00
7) Naphthalene-d8	10.602	136	4243	0.40	ng	0.00
13) Acenaphthene-d10	14.472	164	2758	0.40	ng	0.00
19) Phenanthrene-d10	17.228	188	6519	0.40	ng	0.00
27) Chrysene-d12	21.403	240	7176	0.40	ng	#-0.01
34) Perylene-d12	23.920	264	6939	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.408	112	998	0.37	ng	0.00
5) Phenol-d6	6.998	99	1433	0.36	ng	0.00
8) Nitrobenzene-d5	8.978	82	1531	0.37	ng	0.00
11) 2-Methylnaphthalene-d10	12.210	152	3126	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	447	0.37	ng	-0.01
15) 2-Fluorobiphenyl	13.089	172	4600	0.39	ng	-0.01
25) Fluoranthene-d10	19.259	212	36005	0.39	ng	0.00
29) Terphenyl-d14	19.857	244	6915	0.39	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.312	88	679	0.40	ng	96
3) n-Nitrosodimethylamine	3.658	42	706	0.34	ng	# 96
6) bis(2-Chloroethyl)ether	7.240	93	1075	0.40	ng	75
9) Naphthalene	10.654	128	18975	0.39	ng	100
10) Hexachlorobutadiene	10.927	225	1239	0.38	ng	97
12) 2-Methylnaphthalene	12.282	142	3027	0.37	ng	97
16) Acenaphthylene	14.198	152	5362	0.38	ng	99
17) Acenaphthene	14.529	154	3280	0.39	ng	98
18) Fluorene	15.514	166	4521	0.40	ng	98
20) 4-Bromophenyl-phenylether	16.411	248	1429	0.37	ng	# 85
21) Hexachlorobenzene	16.532	284	1807	0.40	ng	96
22) Pentachlorophenol	16.893	266	354	0.31	ng	98
23) Phenanthrene	17.268	178	7049	0.39	ng	99
24) Anthracene	17.362	178	5301	0.36	ng	99
26) Fluoranthene	19.288	202	8893	0.39	ng	98
28) Pyrene	19.650	202	9103	0.40	ng	99
30) Benzo(a)anthracene	21.391	228	8443	0.39	ng	98
31) Chrysene	21.451	228	9147	0.39	ng	98
32) Bis(2-ethylhexyl)phtha...	21.306	149	13554	0.34	ng	99
33) Indeno(1,2,3-cd)pyrene	26.570	276	9290	0.38	ng	99
35) Benzo(b)fluoranthene	23.147	252	8532	0.38	ng	99
36) Benzo(k)fluoranthene	23.200	252	9510	0.40	ng	99
37) Benzo(a)pyrene	23.806	252	8127	0.38	ng	98
38) Dibenzo(a,h)anthracene	26.584	278	7014	0.35	ng	97
39) Benzo(g,h,i)perylene	27.372	276	8004	0.37	ng	99

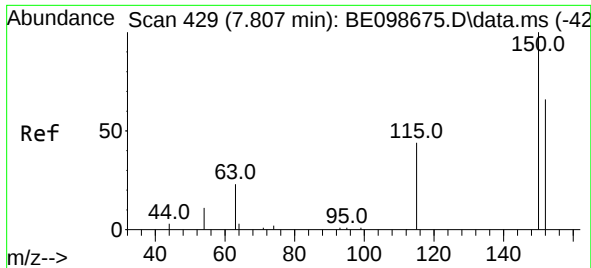
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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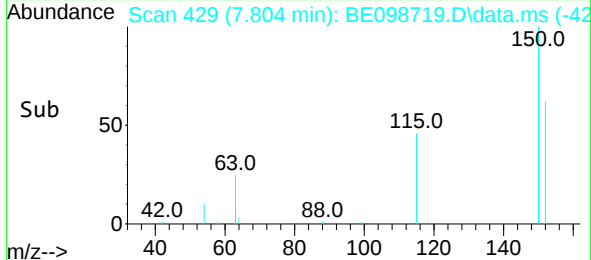
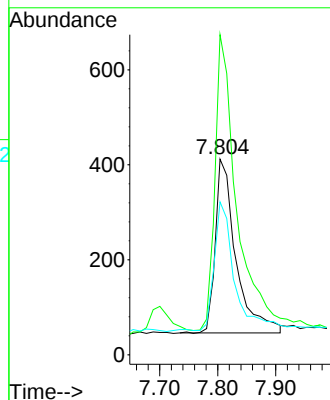
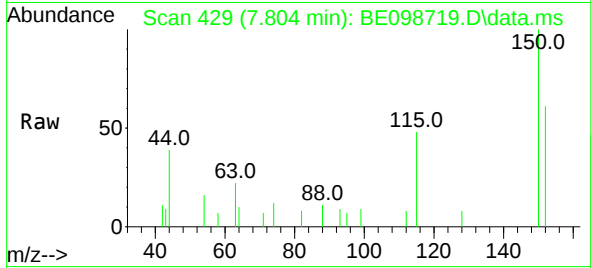




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.40 ng
 RT: 7.804 min Scan# 429
 Delta R.T. -0.003 min
 Lab File: BE098719.D
 Acq: 7 Feb 2019 10:37

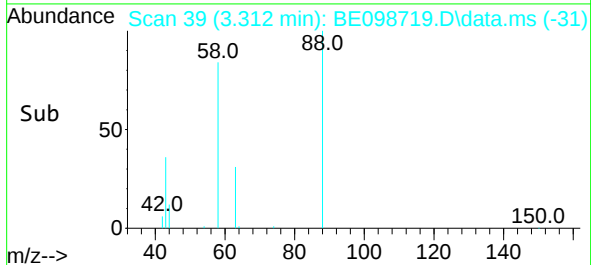
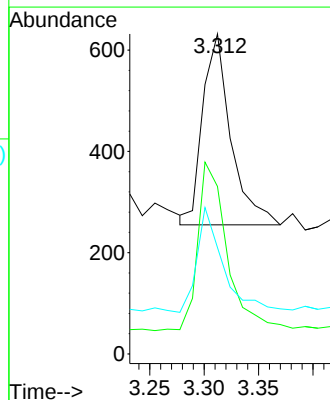
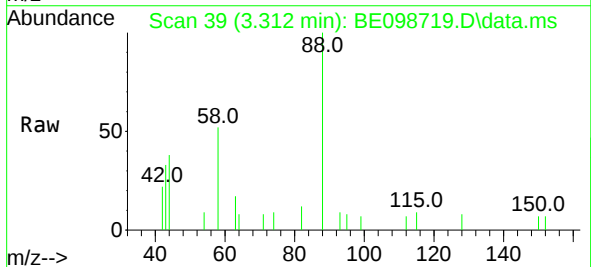
Instrument :
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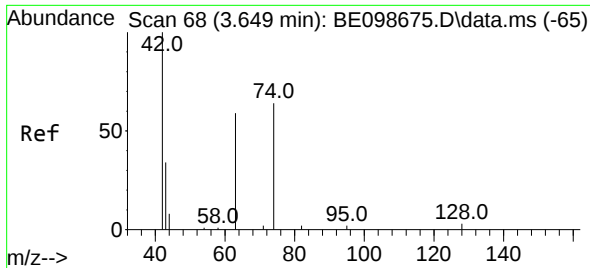
Tgt Ion:152 Resp: 906
 Ion Ratio Lower Upper
 152 100
 150 163.6 121.4 182.2
 115 78.2 59.1 88.7



#2
 1,4-Dioxane
 Concen: 0.40 ng
 RT: 3.312 min Scan# 39
 Delta R.T. -0.003 min
 Lab File: BE098719.D
 Acq: 7 Feb 2019 10:37

Tgt Ion: 88 Resp: 679
 Ion Ratio Lower Upper
 88 100
 58 91.8 73.9 110.9
 43 47.6 43.7 65.5

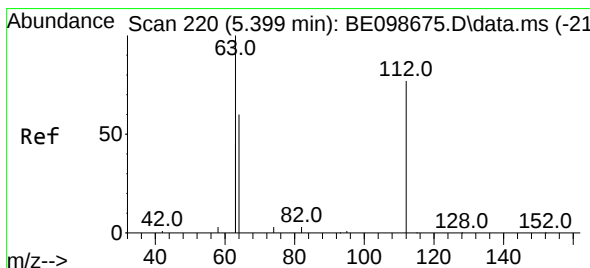
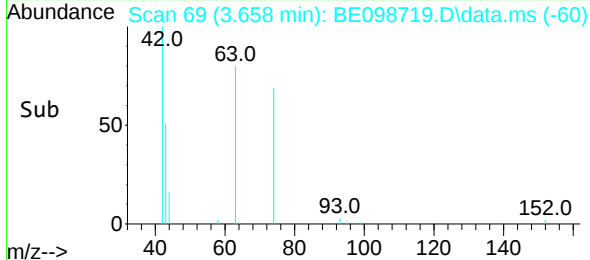
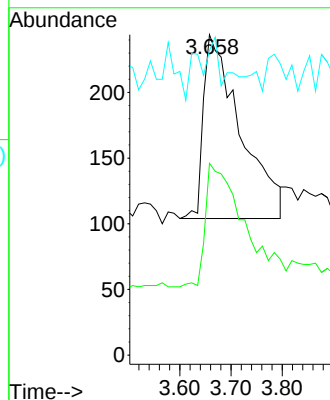
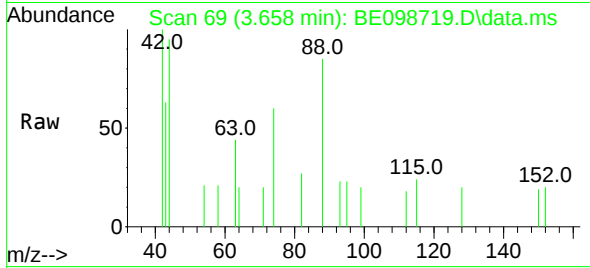




#3
 n-Nitrosodimethylamine
 Concen: 0.34 ng
 RT: 3.658 min Scan# 69
 Delta R.T. 0.009 min
 Lab File: BE098719.D
 Acq: 7 Feb 2019 10:37

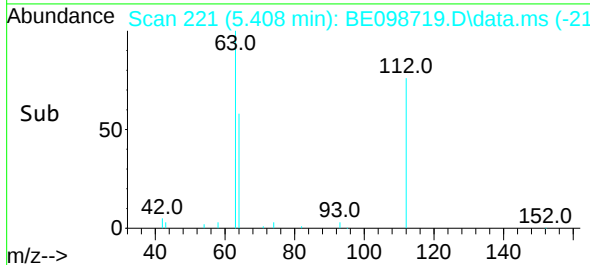
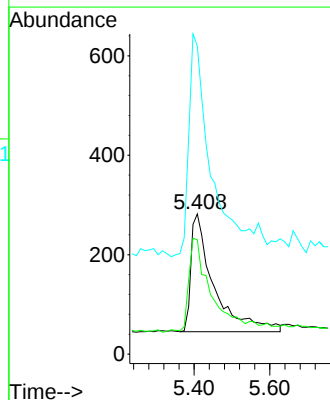
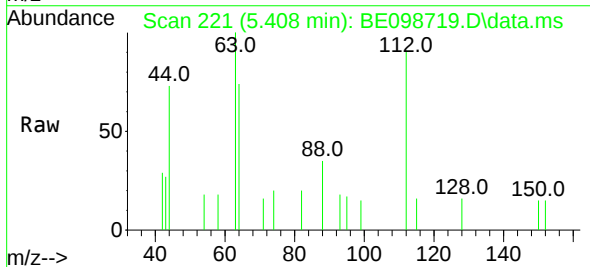
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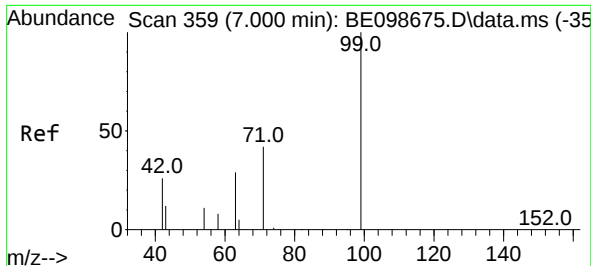
Tgt Ion: 42 Resp: 706
 Ion Ratio Lower Upper
 42 100
 74 70.3 58.9 88.3
 44 5.2 0.0 0.0#



#4
 2-Fluorophenol
 Concen: 0.37 ng
 RT: 5.408 min Scan# 221
 Delta R.T. 0.009 min
 Lab File: BE098719.D
 Acq: 7 Feb 2019 10:37

Tgt Ion: 112 Resp: 998
 Ion Ratio Lower Upper
 112 100
 64 84.4 62.9 94.3
 63 175.7 152.2 228.4

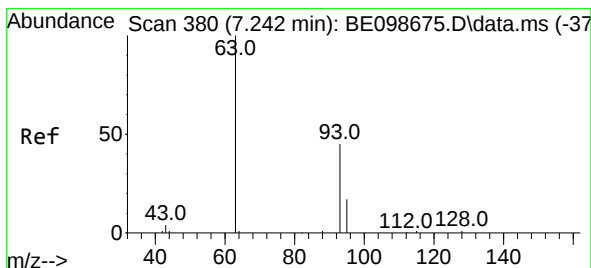
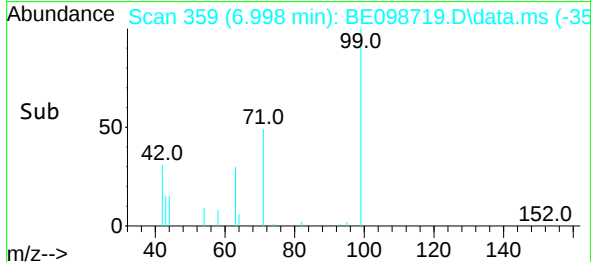
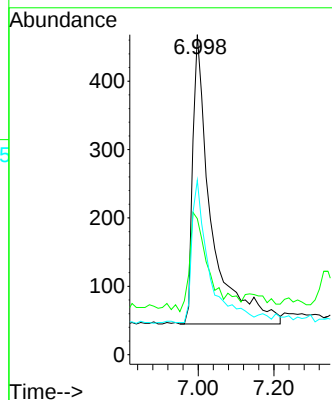
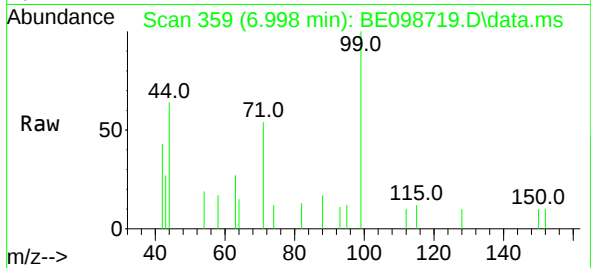




#5
Phenol-d6
Concen: 0.36 ng
RT: 6.998 min Scan# 359
Delta R.T. -0.002 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

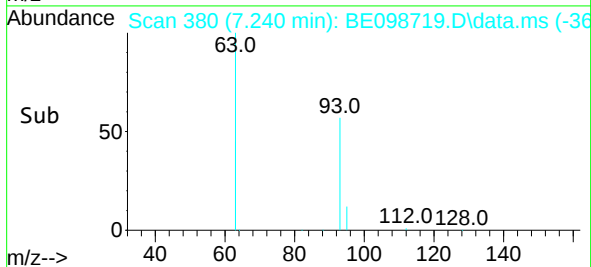
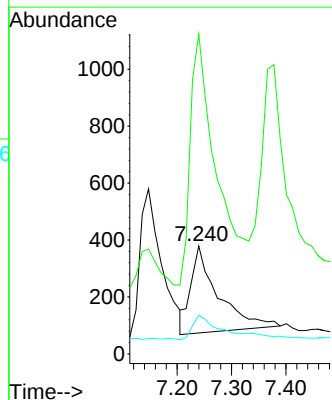
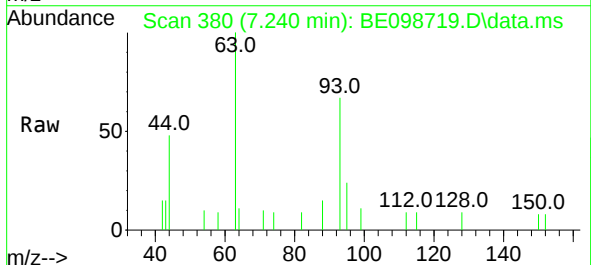
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion: 99 Resp: 1433
Ion Ratio Lower Upper
99 100
42 36.4 24.6 37.0
71 45.5 35.1 52.7



#6
bis(2-Chloroethyl)ether
Concen: 0.40 ng
RT: 7.240 min Scan# 380
Delta R.T. -0.002 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion: 93 Resp: 1075
Ion Ratio Lower Upper
93 100
63 276.9 267.3 400.9
95 31.5 26.2 39.4

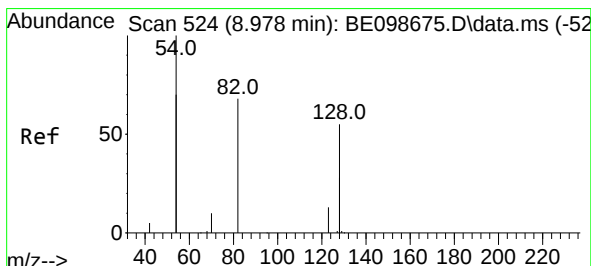
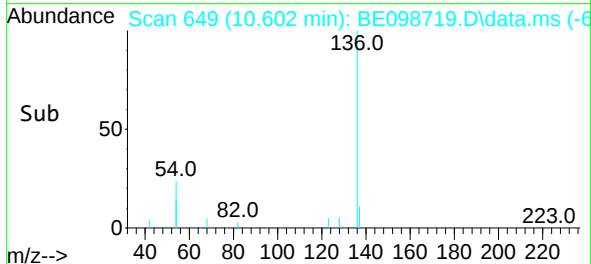
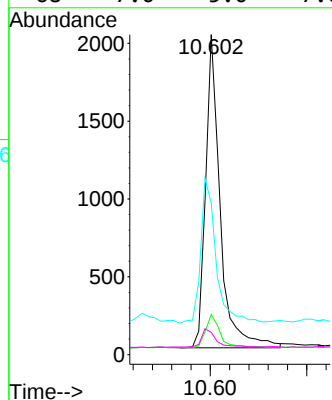
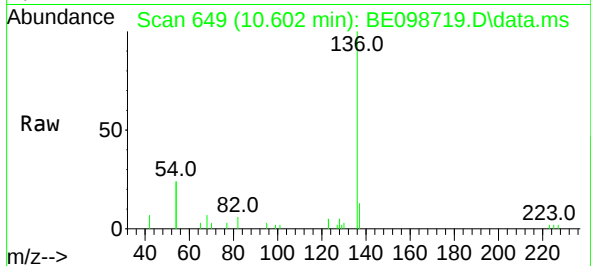




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.602 min Scan# 649
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

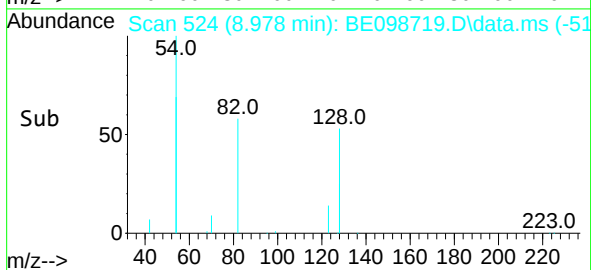
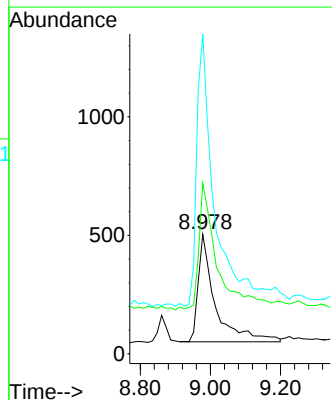
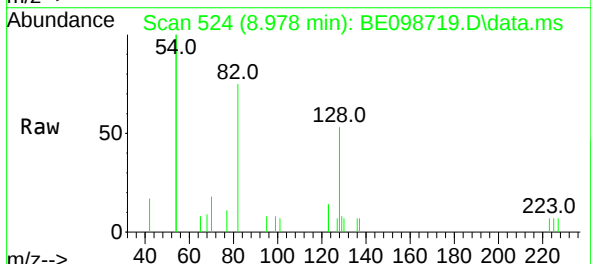
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

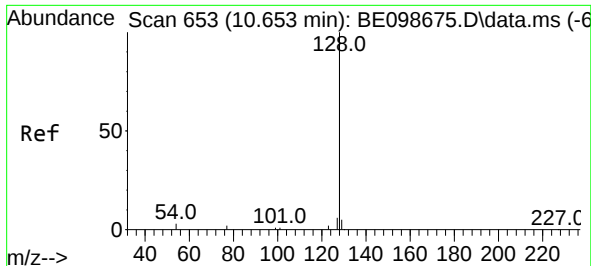
Tgt Ion:	136	Resp:	4243
Ion Ratio	Lower	Upper	
136	100		
137	12.5	9.7	14.5
54	47.4	35.5	53.3
68	7.0	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.37 ng
RT: 8.978 min Scan# 524
Delta R.T. -0.000 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:	82	Resp:	1531
Ion Ratio	Lower	Upper	
82	100		
128	142.9	96.5	144.7
54	267.9	224.7	337.1

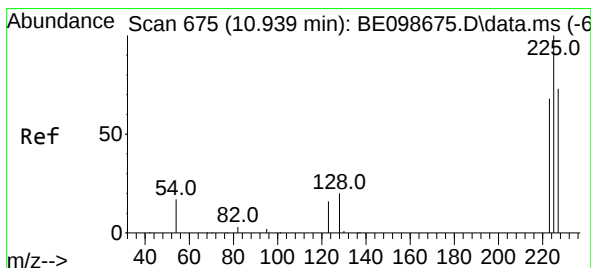
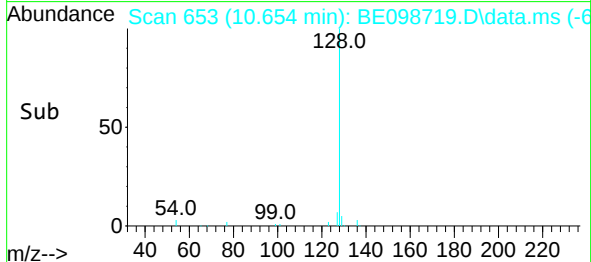
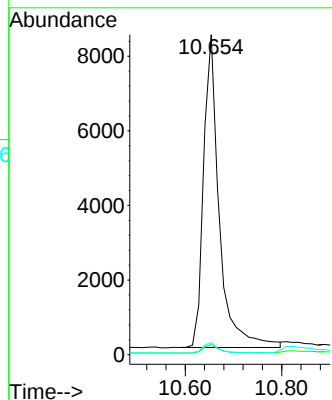
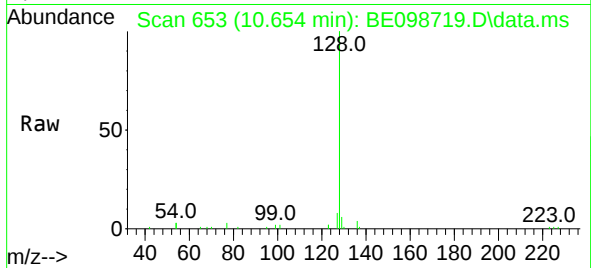




#9
Naphthalene
Concen: 0.39 ng
RT: 10.654 min Scan# 653
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

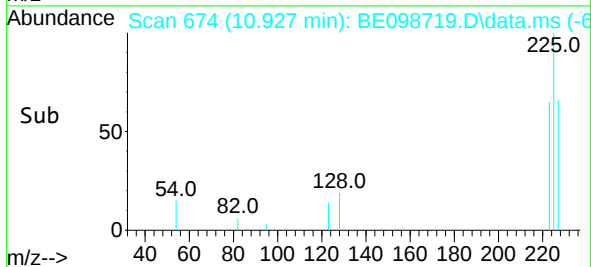
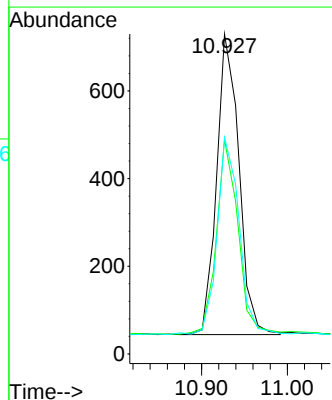
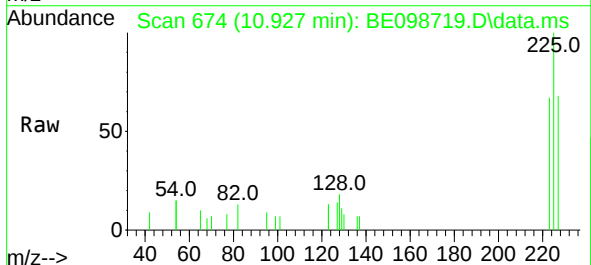
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Tgt Ion:	128	Resp:	18975
Ion Ratio	Lower	Upper	
128	100		
129	3.2	2.6	3.8
127	3.8	3.0	4.6



#10
Hexachlorobutadiene
Concen: 0.38 ng
RT: 10.927 min Scan# 674
Delta R.T. -0.012 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:	225	Resp:	1239
Ion Ratio	Lower	Upper	
225	100		
223	62.5	47.8	71.8
227	64.9	50.5	75.7

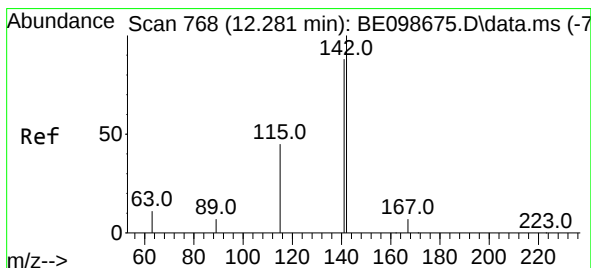
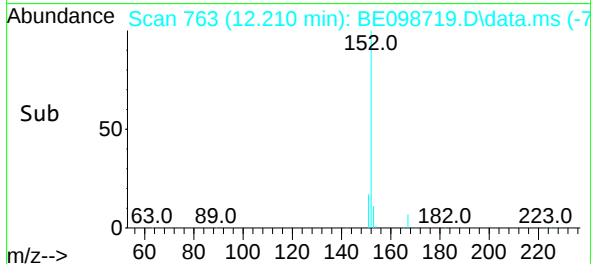
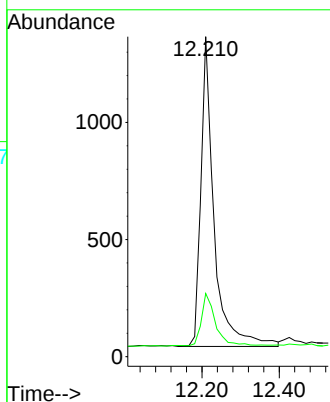
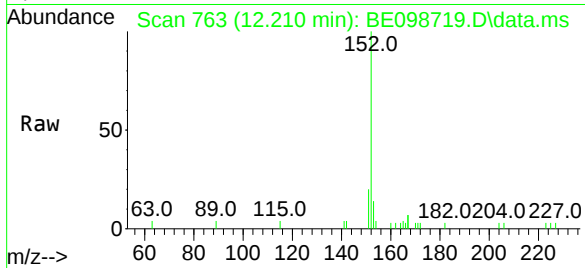




#11
2-Methylnaphthalene-d10
Concen: 0.39 ng
RT: 12.210 min Scan# 763
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

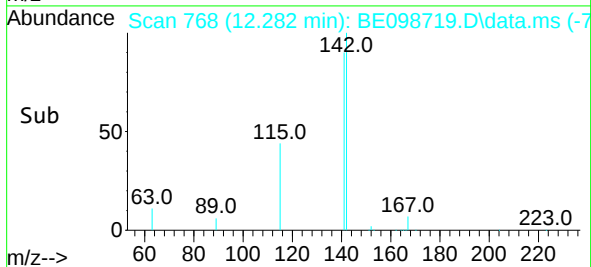
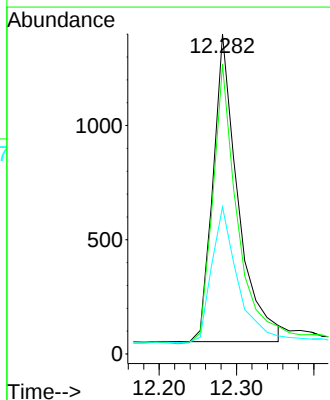
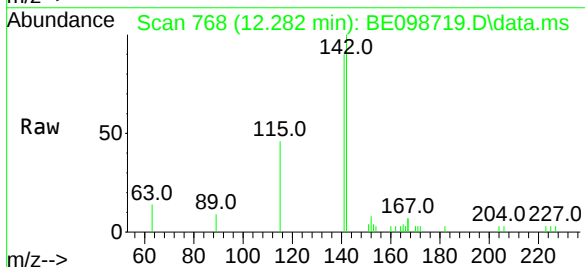
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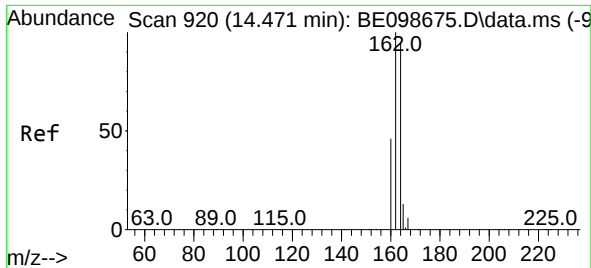
Tgt Ion:152 Resp: 3126
Ion Ratio Lower Upper
152 100
151 17.9 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.37 ng
RT: 12.282 min Scan# 768
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:142 Resp: 3027
Ion Ratio Lower Upper
142 100
141 90.4 70.0 105.0
115 46.0 35.2 52.8

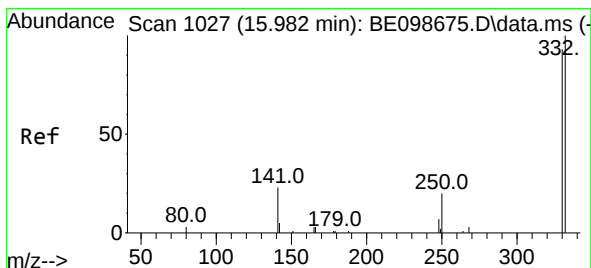
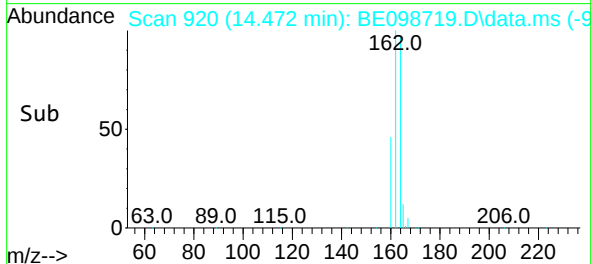
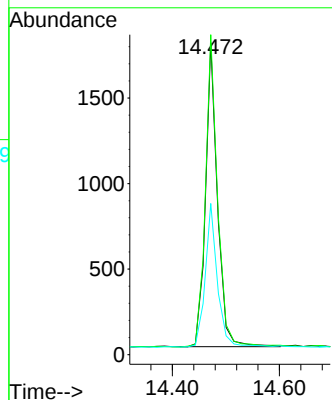
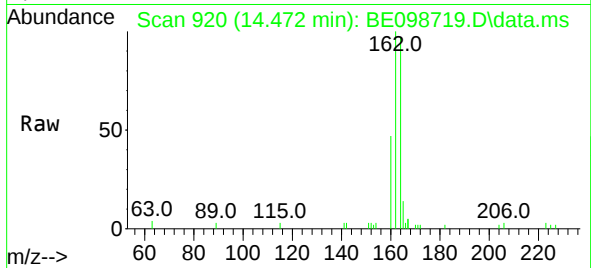




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.472 min Scan# 920
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

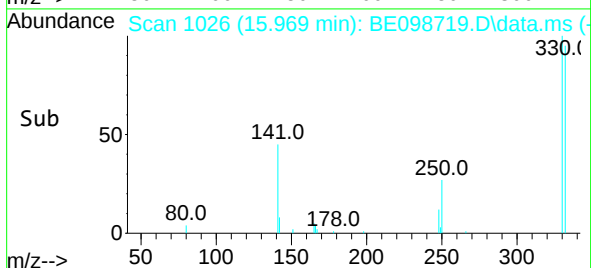
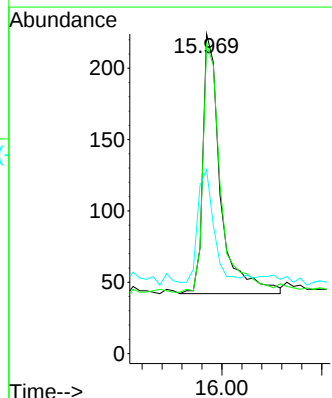
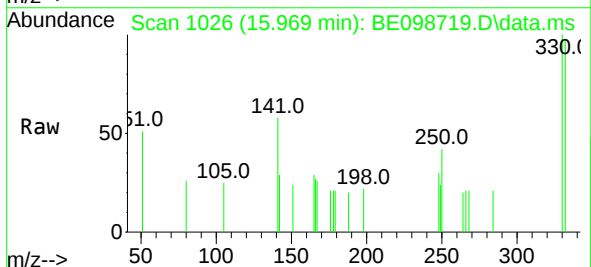
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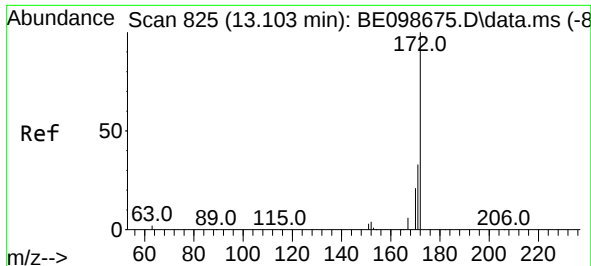
Tgt Ion:	164	Resp:	2758
Ion	Ratio	Lower	Upper
164	100		
162	102.6	80.5	120.7
160	48.5	40.1	60.1



#14
2,4,6-Tribromophenol
Concen: 0.37 ng
RT: 15.969 min Scan# 1026
Delta R.T. -0.013 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:	330	Resp:	447
Ion	Ratio	Lower	Upper
330	100		
332	96.6	73.3	109.9
141	39.6	33.1	49.7

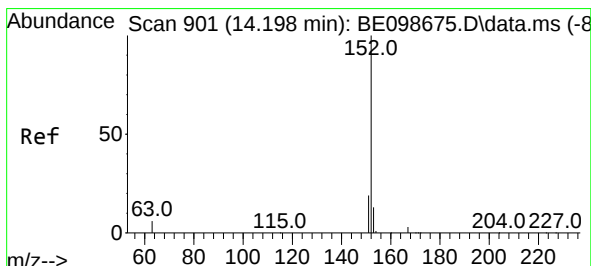
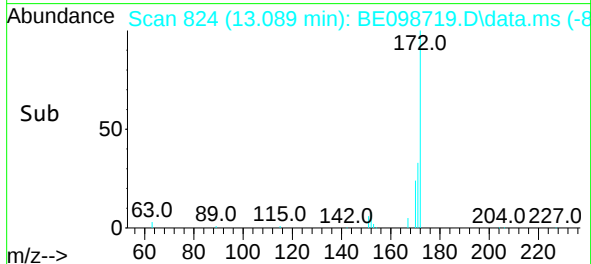
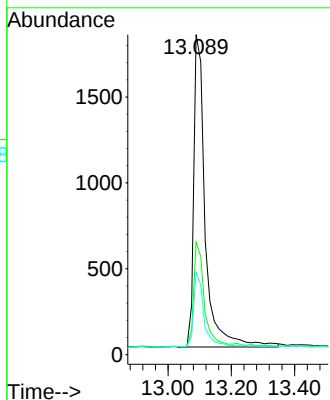
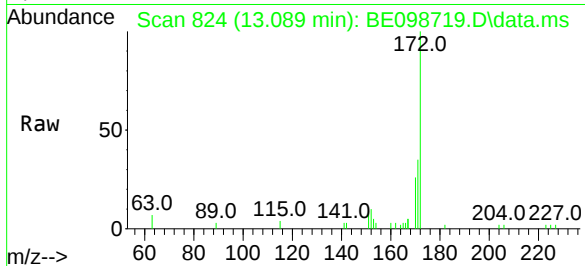




#15
2-Fluorobiphenyl
Concen: 0.39 ng
RT: 13.089 min Scan# 824
Delta R.T. -0.014 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

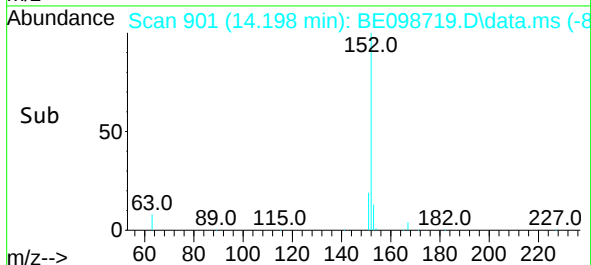
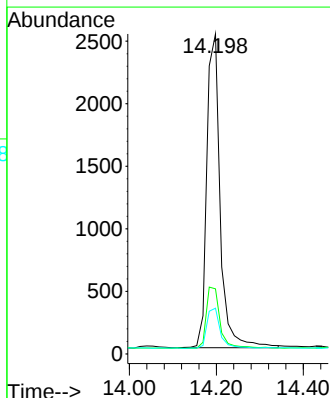
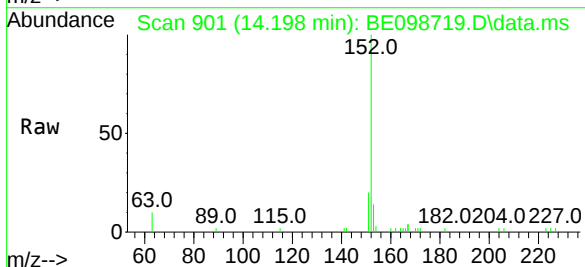
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:	172	Resp:	4600
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.0	43.4
170	25.9	20.8	31.2



#16
Acenaphthylene
Concen: 0.38 ng
RT: 14.198 min Scan# 901
Delta R.T. 0.000 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:	152	Resp:	5362
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	12.9	10.7	16.1

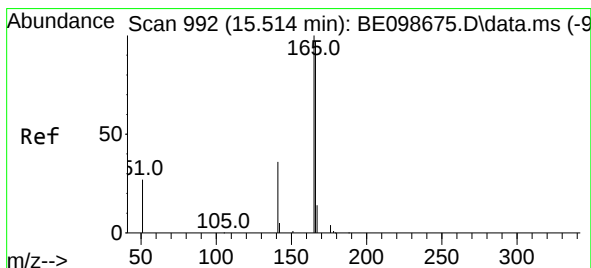
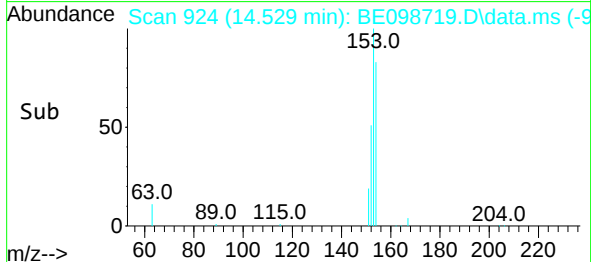
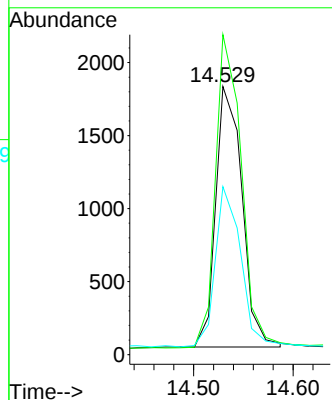
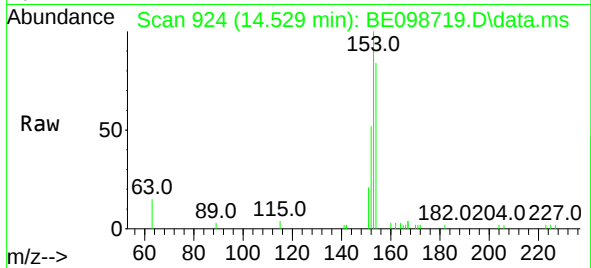




#17
Acenaphthene
Concen: 0.39 ng
RT: 14.529 min Scan# 924
Delta R.T. -0.014 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

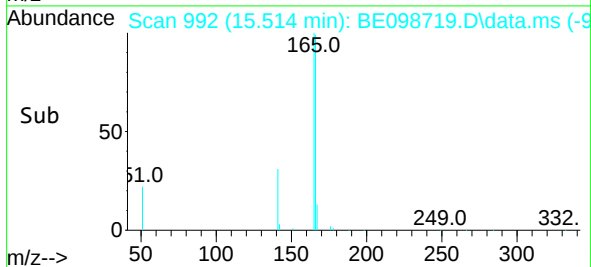
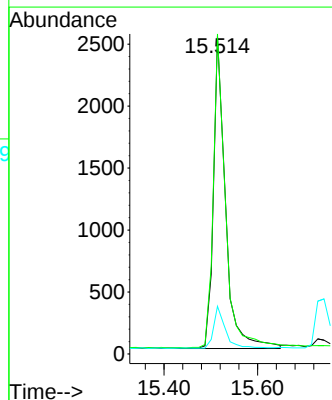
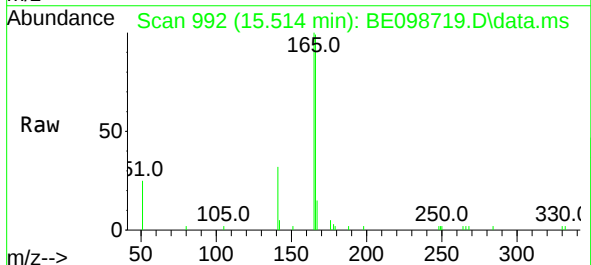
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

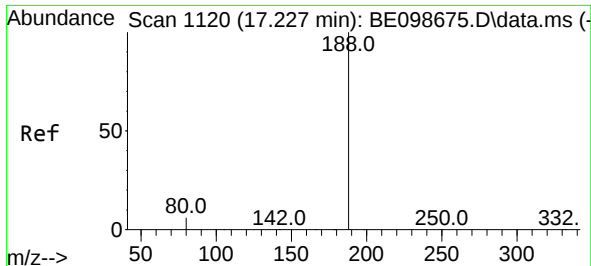
Tgt Ion:154 Resp: 3280
Ion Ratio Lower Upper
154 100
153 118.5 93.9 140.9
152 59.7 45.8 68.8



#18
Fluorene
Concen: 0.40 ng
RT: 15.514 min Scan# 992
Delta R.T. 0.000 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:166 Resp: 4521
Ion Ratio Lower Upper
166 100
165 101.5 79.3 118.9
167 13.0 10.6 15.8

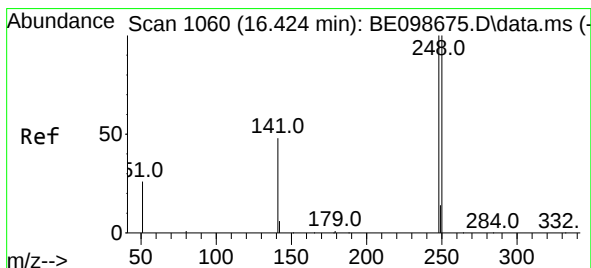
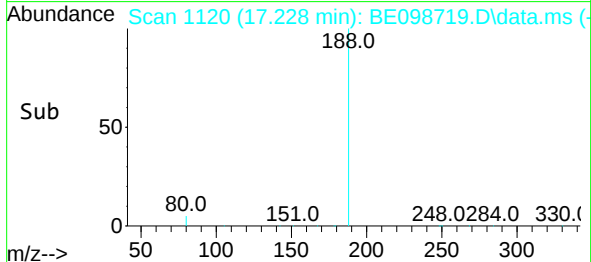
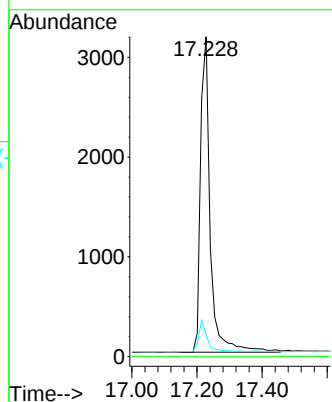
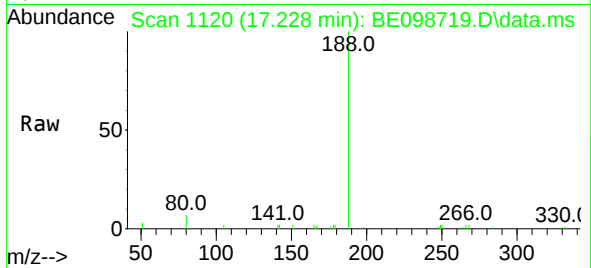




#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.228 min Scan# 1120
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

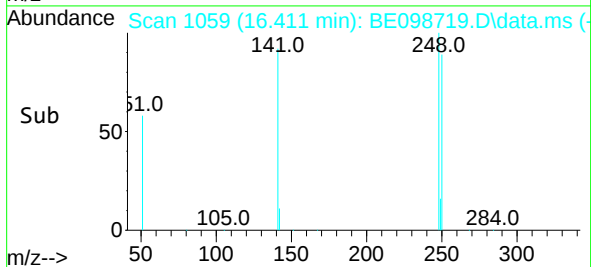
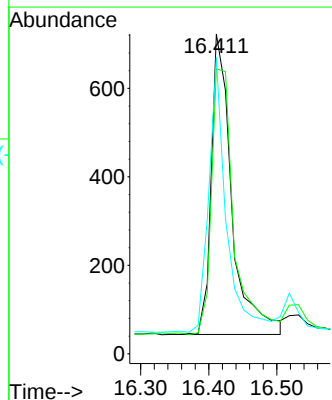
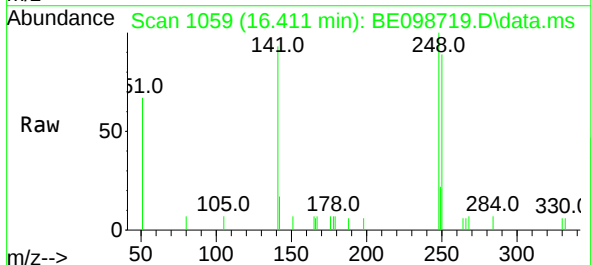
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

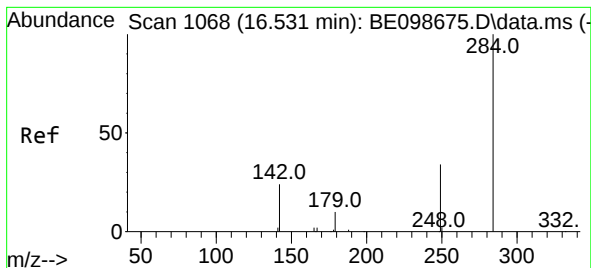
Tgt Ion:188 Resp: 6519
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.8 4.7 7.1



#20
4-Bromophenyl-phenylether
Concen: 0.37 ng
RT: 16.411 min Scan# 1059
Delta R.T. -0.013 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:248 Resp: 1429
Ion Ratio Lower Upper
248 100
250 89.1 80.2 120.4
141 92.7 60.5 90.7#

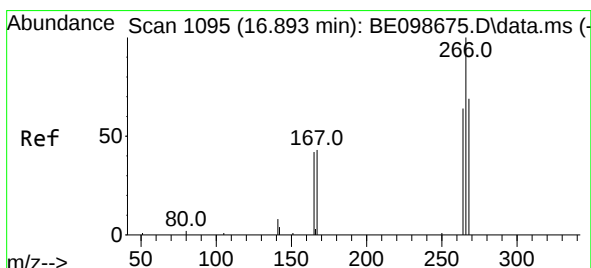
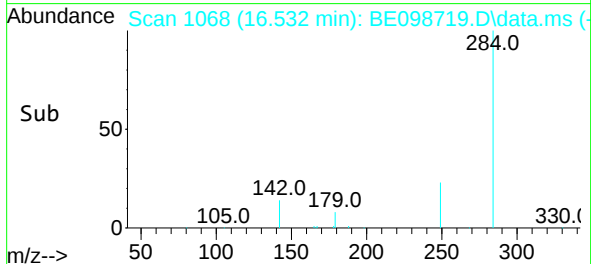
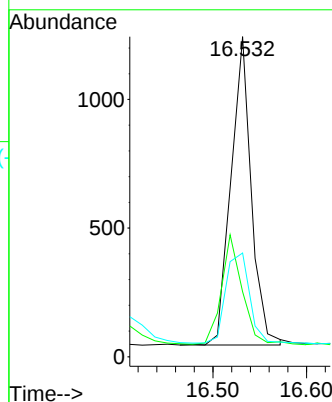
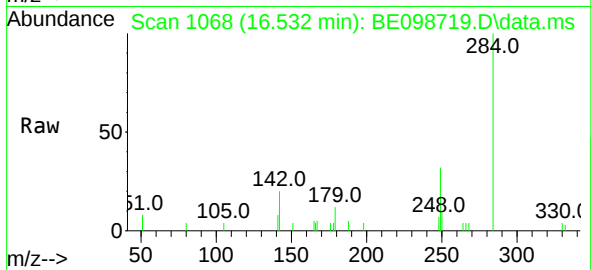




#21
Hexachlorobenzene
Concen: 0.40 ng
RT: 16.532 min Scan# 1068
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

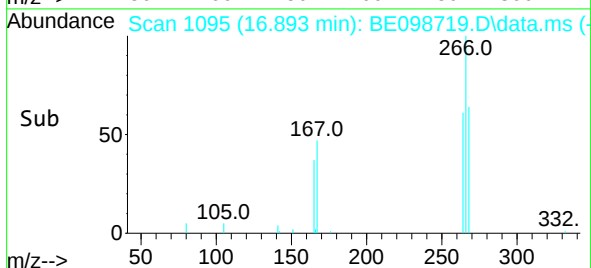
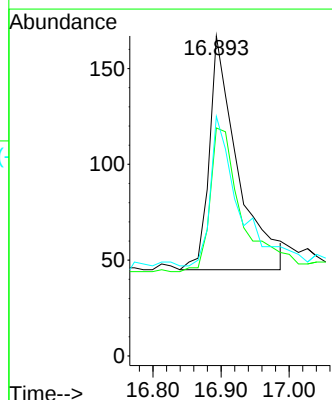
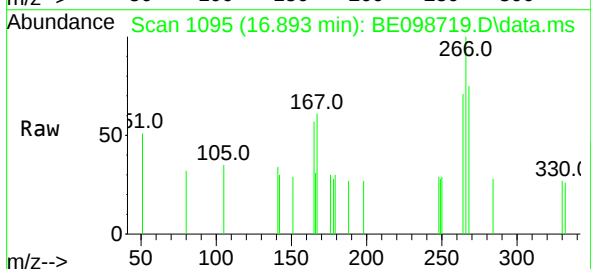
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

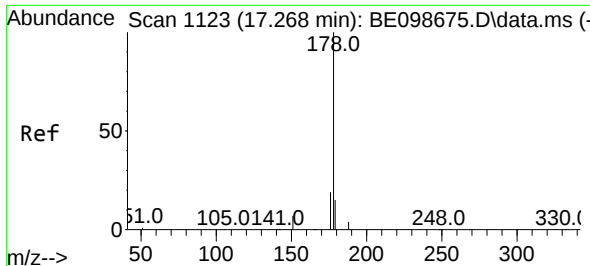
Tgt Ion:284 Resp: 1807
Ion Ratio Lower Upper
284 100
142 35.4 25.5 38.3
249 34.3 26.6 39.8



#22
Pentachlorophenol
Concen: 0.31 ng
RT: 16.893 min Scan# 1095
Delta R.T. 0.000 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:266 Resp: 354
Ion Ratio Lower Upper
266 100
264 71.3 53.7 80.5
268 74.9 59.8 89.8

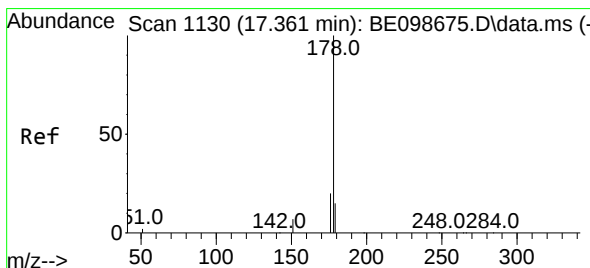
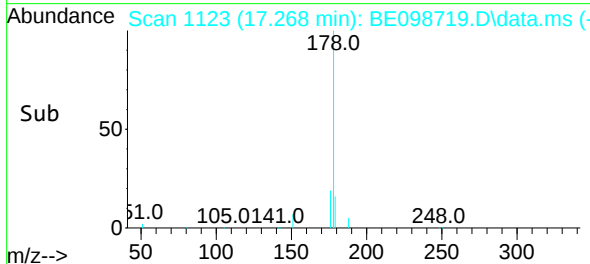
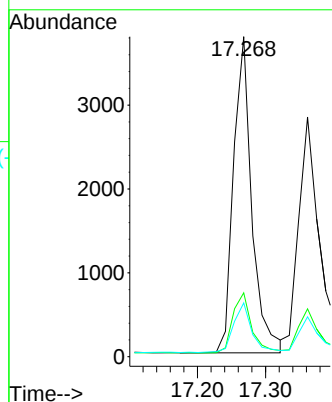
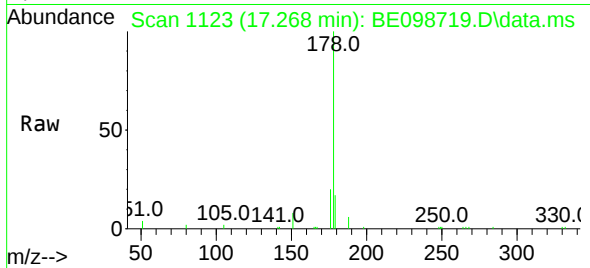




#23
Phenanthrene
Concen: 0.39 ng
RT: 17.268 min Scan# 1123
Delta R.T. -0.000 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

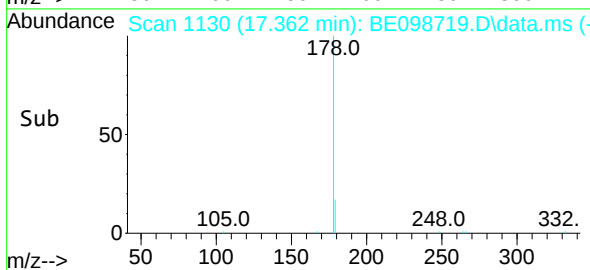
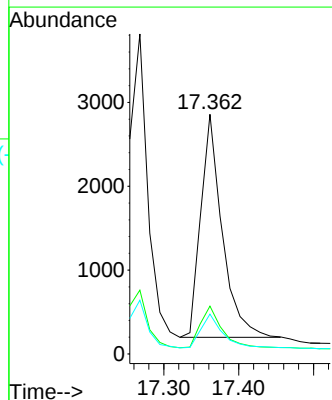
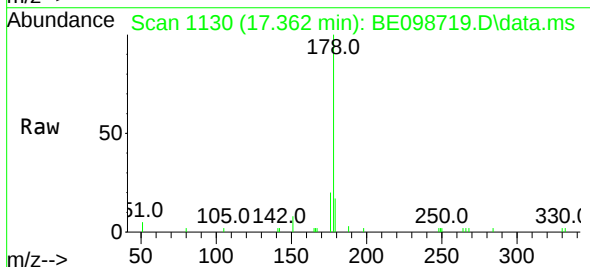
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:178 Resp: 7049
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.5 12.2 18.4



#24
Anthracene
Concen: 0.36 ng
RT: 17.362 min Scan# 1130
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:178 Resp: 5301
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.4 11.8 17.8

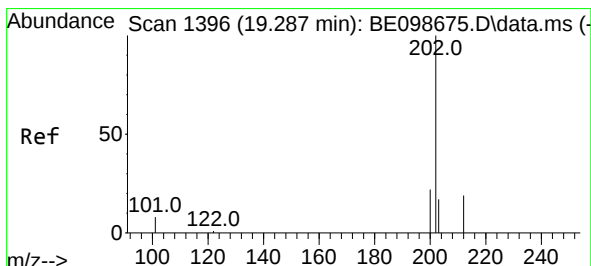
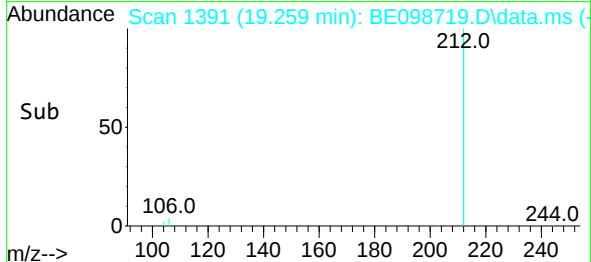
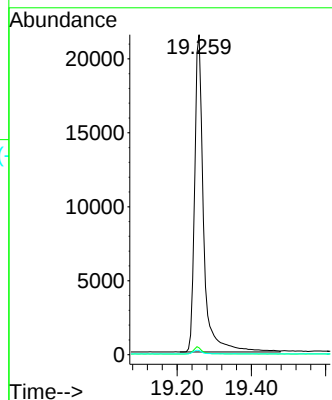
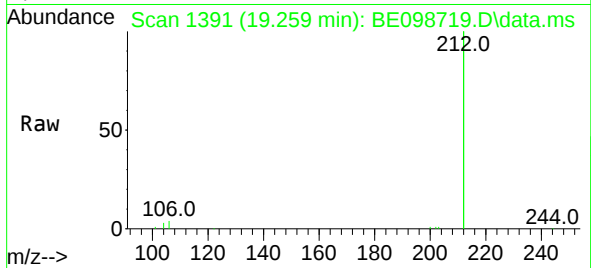




#25
Fluoranthene-d10
Concen: 0.39 ng
RT: 19.259 min Scan# 1391
Delta R.T. 0.000 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

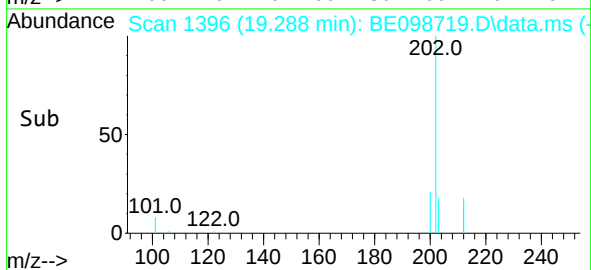
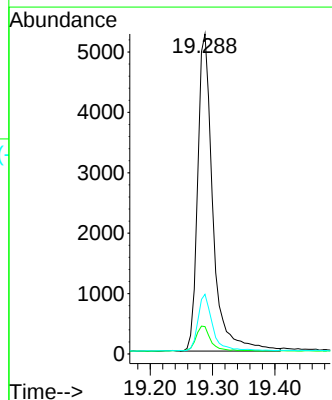
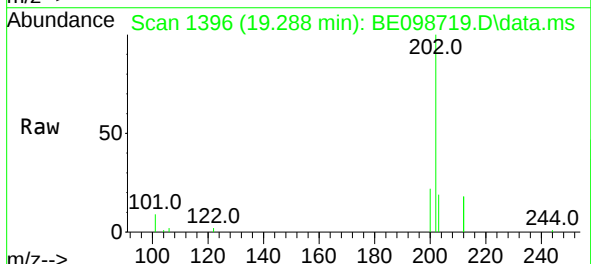
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

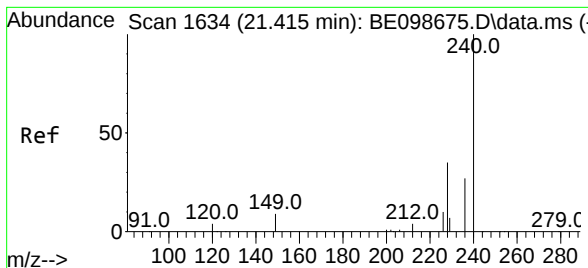
Tgt Ion:212 Resp: 36005
Ion Ratio Lower Upper
212 100
106 2.1 1.7 2.5
104 1.2 1.0 1.6



#26
Fluoranthene
Concen: 0.39 ng
RT: 19.288 min Scan# 1396
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:202 Resp: 8893
Ion Ratio Lower Upper
202 100
101 8.3 6.7 10.1
203 17.5 13.3 19.9

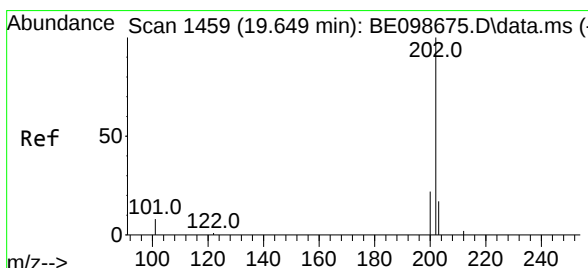
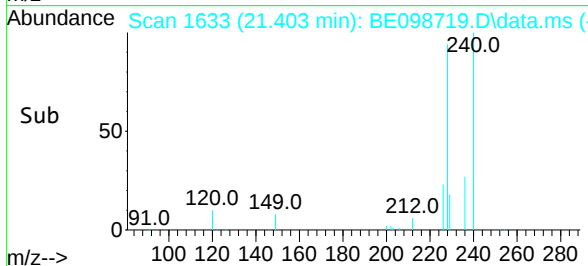
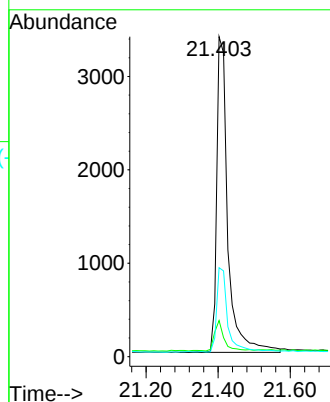
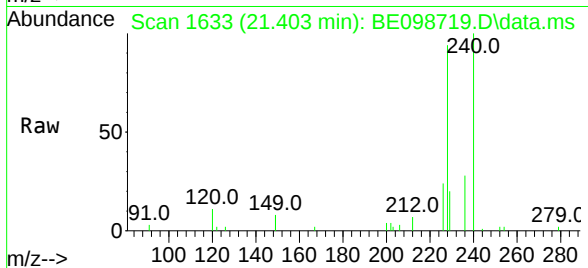




#27
Chrysene-d12
Concen: 0.40 ng
RT: 21.403 min Scan# 1633
Delta R.T. -0.012 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

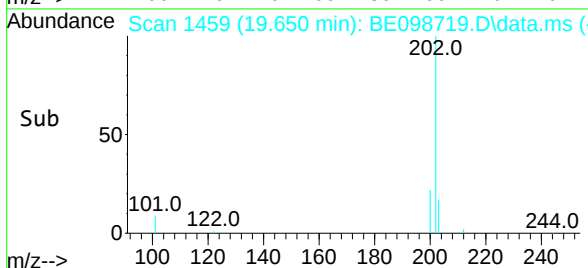
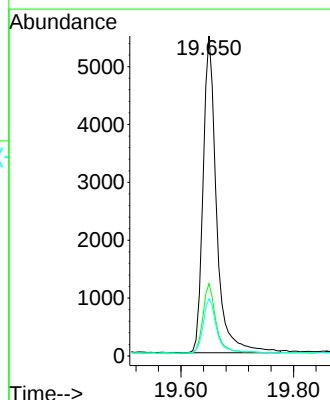
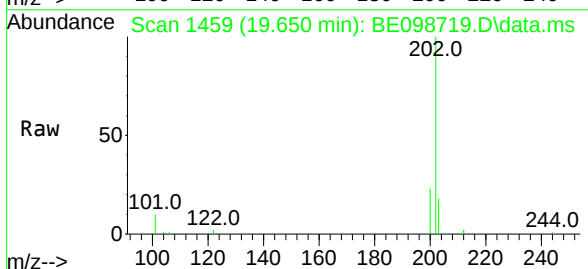
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:240 Resp: 7176
Ion Ratio Lower Upper
240 100
120 11.3 4.7 7.1#
236 27.8 21.9 32.9



#28
Pyrene
Concen: 0.40 ng
RT: 19.650 min Scan# 1459
Delta R.T. 0.001 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:202 Resp: 9103
Ion Ratio Lower Upper
202 100
200 21.6 17.0 25.6
203 17.5 13.8 20.8

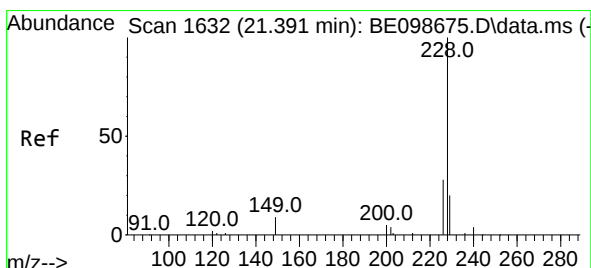
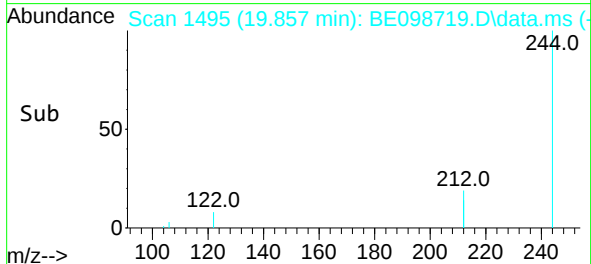
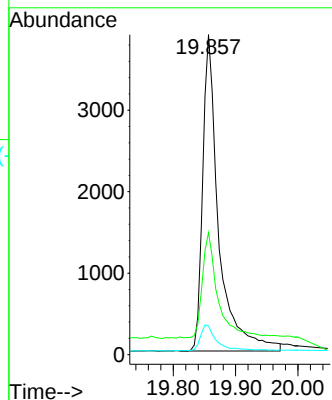
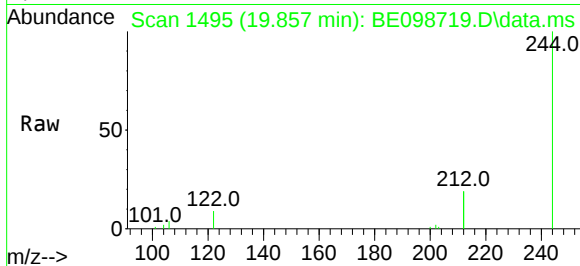




#29
 Terphenyl-d14
 Concen: 0.39 ng
 RT: 19.857 min Scan# 1495
 Delta R.T. 0.001 min
 Lab File: BE098719.D
 Acq: 7 Feb 2019 10:37

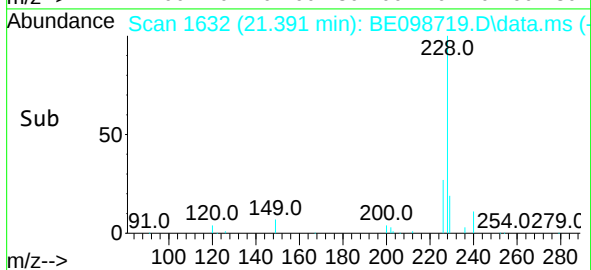
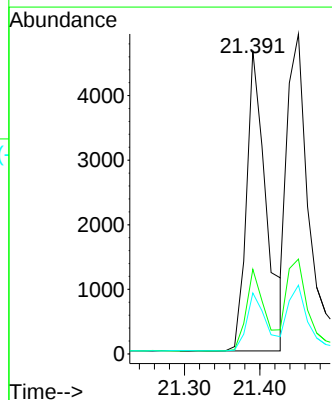
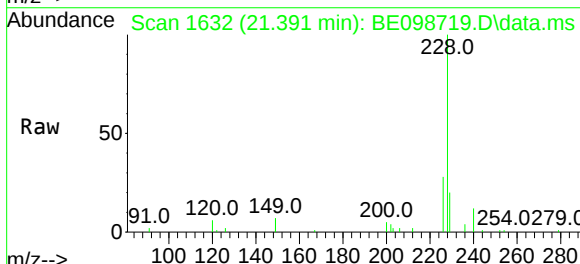
Instrument :
 BNA_E
 ClientSampleId :
 PB116867BSD

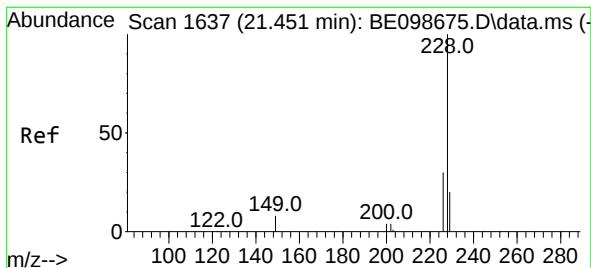
Tgt Ion:244 Resp: 6915
 Ion Ratio Lower Upper
 244 100
 212 38.2 29.4 44.2
 122 9.0 7.1 10.7



#30
 Benzo(a)anthracene
 Concen: 0.39 ng
 RT: 21.391 min Scan# 1632
 Delta R.T. -0.000 min
 Lab File: BE098719.D
 Acq: 7 Feb 2019 10:37

Tgt Ion:228 Resp: 8443
 Ion Ratio Lower Upper
 228 100
 226 27.9 23.0 34.4
 229 20.1 15.0 22.6





#31

Chrysene

Concen: 0.39 ng

RT: 21.451 min Scan# 1637

Delta R.T. 0.000 min

Lab File: BE098719.D

Acq: 7 Feb 2019 10:37

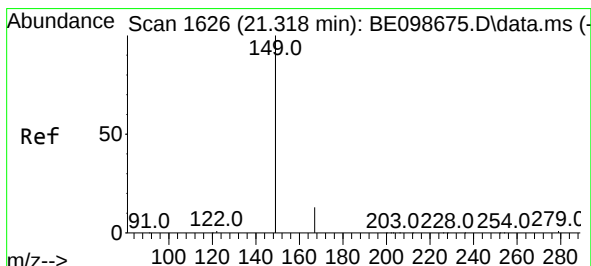
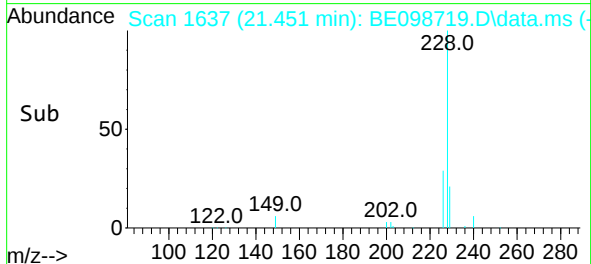
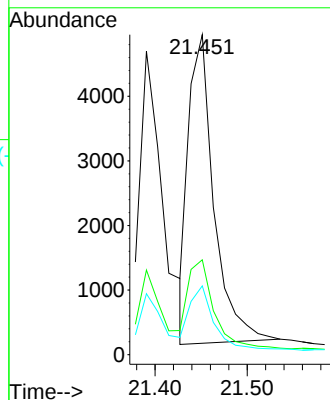
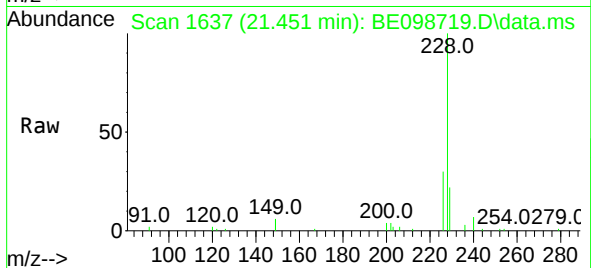
Tgt Ion:228 Resp: 9147

Ion Ratio Lower Upper

228 100

226 29.6 24.6 36.8

229 21.5 16.4 24.6



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.34 ng

RT: 21.306 min Scan# 1625

Delta R.T. -0.012 min

Lab File: BE098719.D

Acq: 7 Feb 2019 10:37

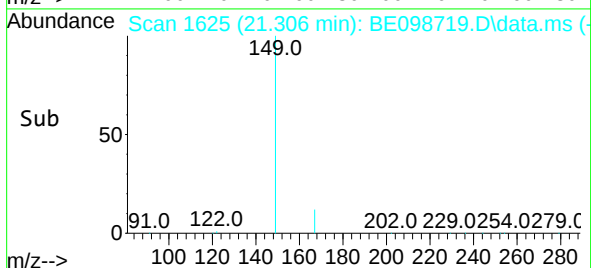
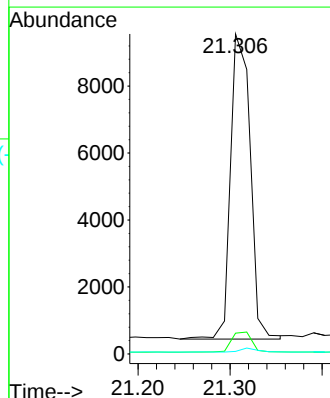
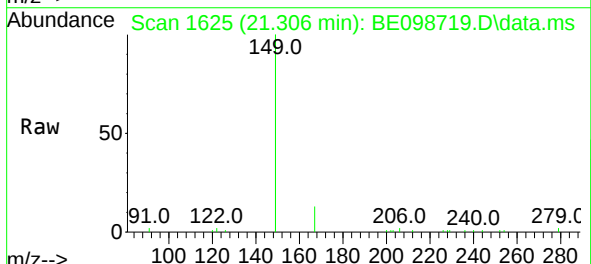
Tgt Ion:149 Resp: 13554

Ion Ratio Lower Upper

149 100

167 7.0 5.4 8.2

279 1.3 1.0 1.4

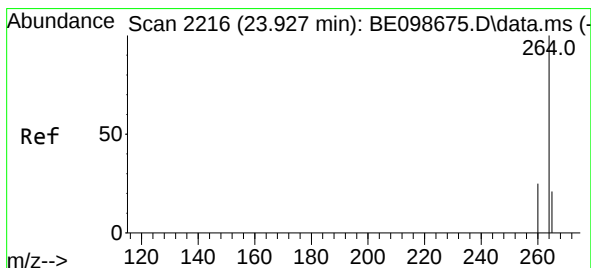
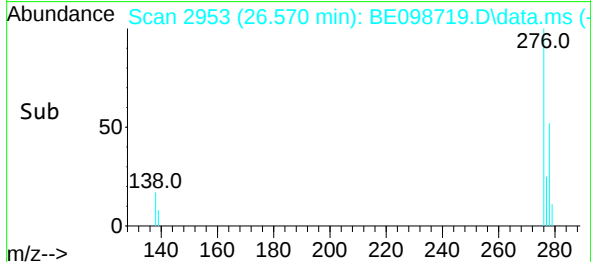
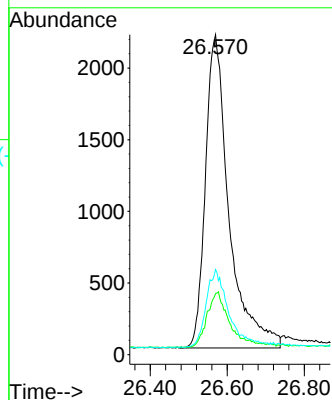
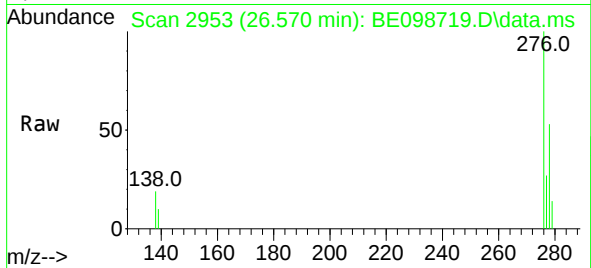




#33
Indeno(1,2,3-cd)pyrene
Concen: 0.38 ng
RT: 26.570 min Scan# 2953
Delta R.T. -0.006 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

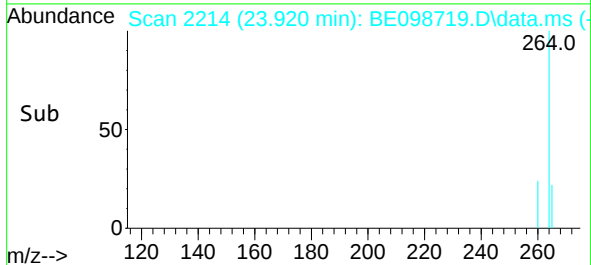
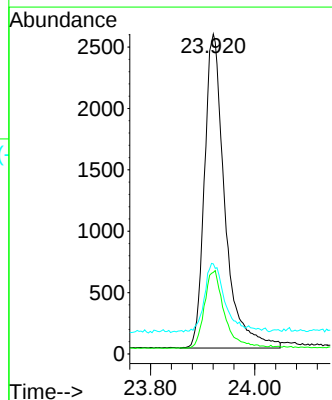
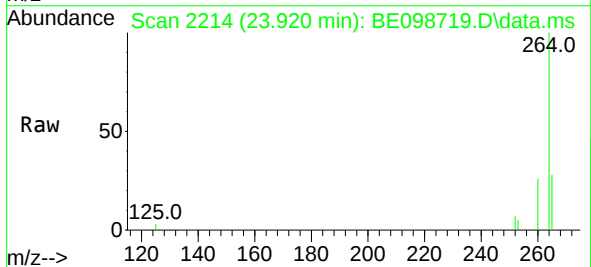
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:276 Resp: 9290
Ion Ratio Lower Upper
276 100
138 16.9 13.3 19.9
277 23.9 19.4 29.0



#34
Perylene-d12
Concen: 0.40 ng
RT: 23.920 min Scan# 2214
Delta R.T. -0.007 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:264 Resp: 6939
Ion Ratio Lower Upper
264 100
260 25.5 20.5 30.7
265 28.2 22.3 33.5

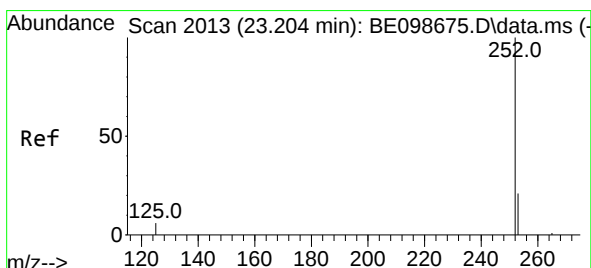
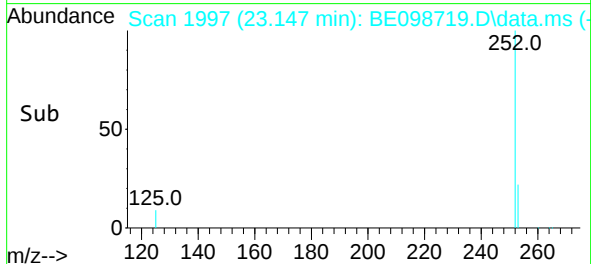
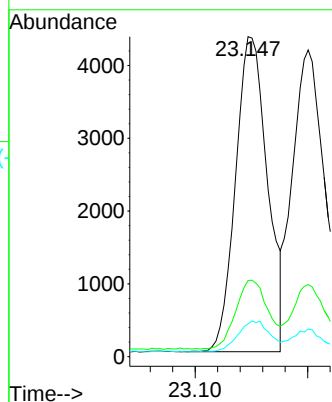
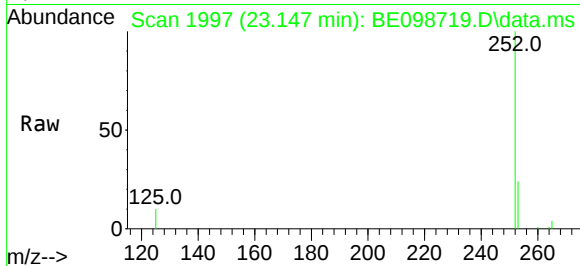




#35
Benzo(b)fluoranthene
Concen: 0.38 ng
RT: 23.147 min Scan# 1997
Delta R.T. -0.007 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

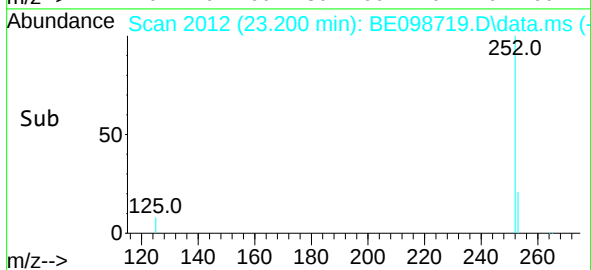
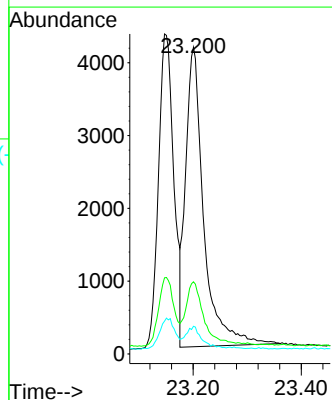
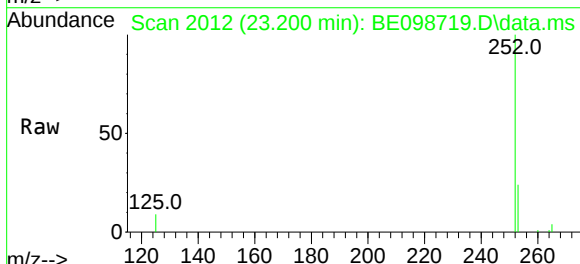
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:252 Resp: 8532
Ion Ratio Lower Upper
252 100
253 23.8 19.4 29.0
125 10.3 8.2 12.4



#36
Benzo(k)fluoranthene
Concen: 0.40 ng
RT: 23.200 min Scan# 2012
Delta R.T. -0.003 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:252 Resp: 9510
Ion Ratio Lower Upper
252 100
253 23.5 19.0 28.4
125 9.0 7.0 10.4

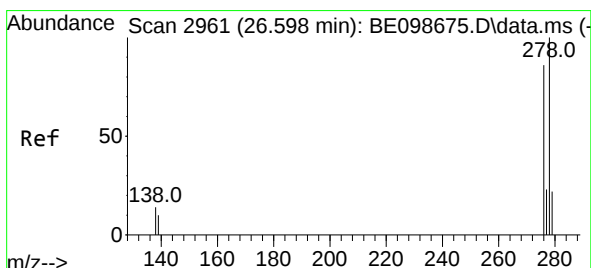
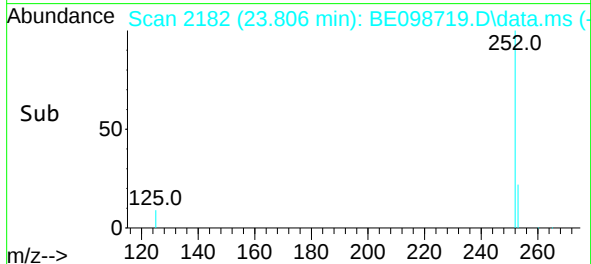
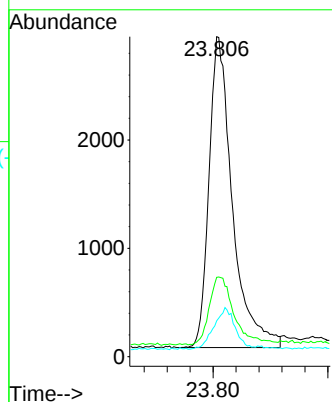
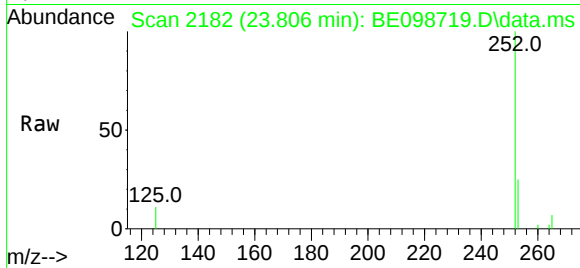




#37
Benzo(a)pyrene
Concen: 0.38 ng
RT: 23.806 min Scan# 2182
Delta R.T. -0.007 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

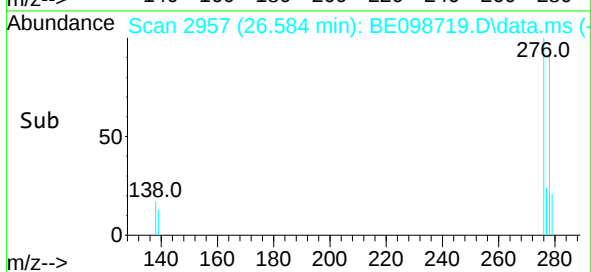
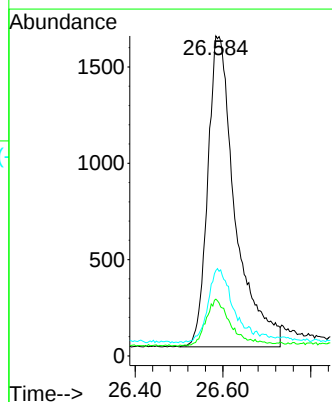
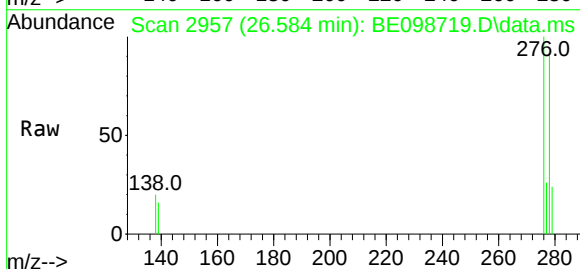
Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:252 Resp: 8127
Ion Ratio Lower Upper
252 100
253 24.8 21.0 31.4
125 11.2 9.2 13.8



#38
Dibenzo(a,h)anthracene
Concen: 0.35 ng
RT: 26.584 min Scan# 2957
Delta R.T. -0.014 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Tgt Ion:278 Resp: 7014
Ion Ratio Lower Upper
278 100
139 17.8 12.7 19.1
279 26.7 22.0 33.0





#39
Benzo(g,h,i)perylene
Concen: 0.37 ng
RT: 27.372 min Scan# 3178
Delta R.T. -0.017 min
Lab File: BE098719.D
Acq: 7 Feb 2019 10:37

Instrument :
BNA_E
ClientSampleId :
PB116867BSD

Tgt Ion:276 Resp: 8004
Ion Ratio Lower Upper
276 100
277 26.5 20.3 30.5
138 16.7 13.3 19.9

