

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN073118\
 Data File : BN002203.D
 Acq On : 31 Jul 2018 09:48
 Operator : JU/SJ
 Sample : J4086-30DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 1548DL

Manual Integrations
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Quant Time: Jul 31 16:11:14 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 16:17:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	3242	0.40	ng	0.00
7) Naphthalene-d8	10.47	136	13484	0.40	ng	0.00
13) Acenaphthene-d10	14.32	164	7731	0.40	ng	0.00
19) Phenanthrene-d10	17.08	188	16216	0.40	ng	0.01
27) Chrysene-d12	21.27	240	11871	0.40	ng	0.00
34) Perylene-d12	23.50	264	10908	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.32	112	254	0.03	ng	0.02
5) Phenol-d6	6.92	99	234m	0.03	ng	0.04
8) Nitrobenzene-d5	8.89	82	271m	0.03	ng	0.05
11) 2-Methylnaphthalene-d10	12.10	152	666	0.03	ng	0.04
14) 2,4,6-Tribromophenol	15.86	330	64	0.02	ng	0.03
15) 2-Fluorobiphenyl	12.96	172	1180	0.04	ng	0.02
25) Fluoranthene-d10	19.11	212	1429	0.04	ng	0.00
29) Terphenyl-d14	19.72	244	1006	0.04	ng	0.00

Target Compounds					Qvalue	
9) Naphthalene	10.52	128	14595	0.480	ng	96
16) Acenaphthylene	14.03	152	49161	1.488	ng	100
17) Acenaphthene	14.38	154	30337	1.428	ng	97
18) Fluorene	15.39	166	5295	0.203	ng	# 80
23) Phenanthrene	17.12	178	3931	0.097	ng	99
24) Anthracene	17.22	178	8490m	0.254	ng	
26) Fluoranthene	19.14	202	8150	0.186	ng	# 97
28) Pyrene	19.50	202	9906	0.282	ng	99
30) Benzo(a)anthracene	21.26	228	3975	0.133	ng	97
31) Chrysene	21.31	228	4829	0.144	ng	99
33) Indeno(1,2,3-cd)pyrene	25.73	276	10470	0.332	ng	# 91
35) Benzo(b)fluoranthene	22.84	252	2823	0.088	ng	# 93
36) Benzo(k)fluoranthene	22.88	252	13829	0.415	ng	94
37) Benzo(a)pyrene	23.40	252	6834	0.235	ng	# 90
38) Dibenzo(a,h)anthracene	25.75	278	3623	0.128	ng	# 92
39) Benzo(g,h,i)perylene	26.41	276	7792	0.270	ng	# 91

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

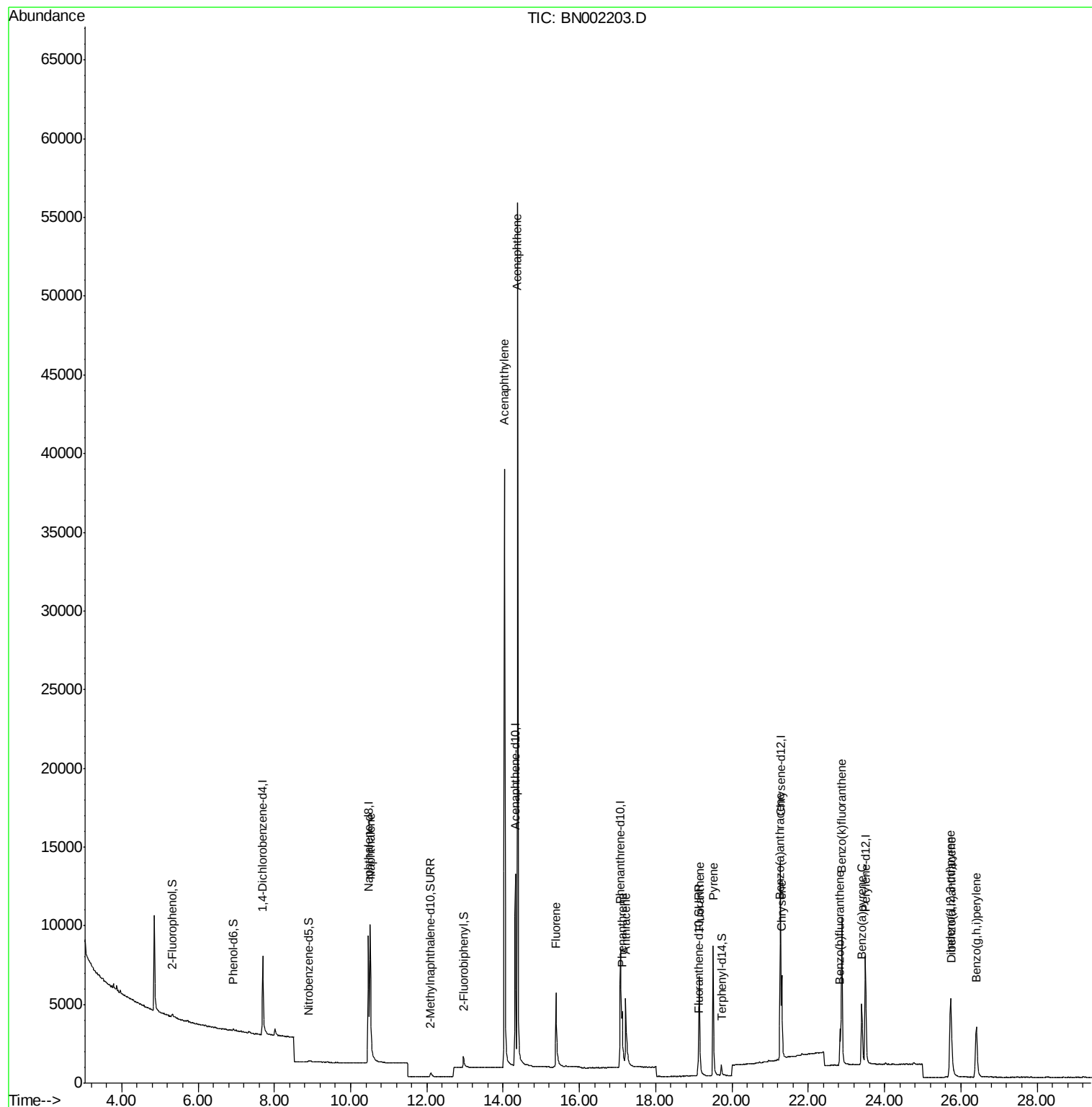
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN073118\
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ALS Vial : 4 Sample Multiplier: 1

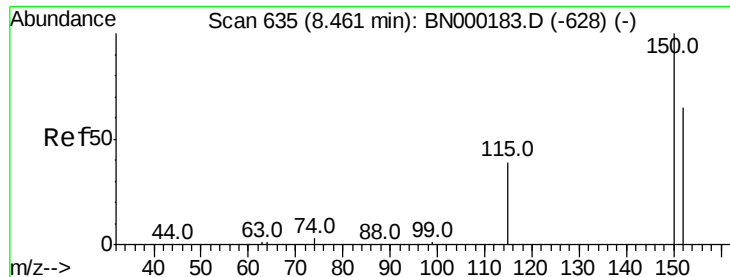
Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.70 min Scan# 580

Delta R.T. 0.01 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

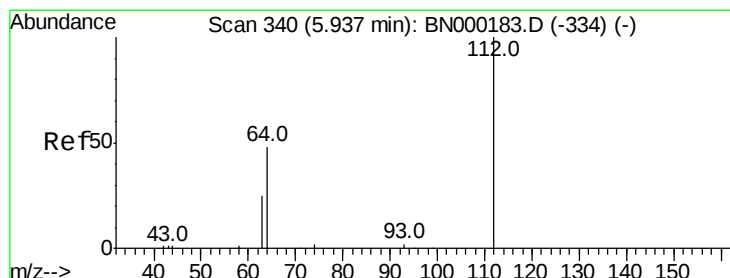
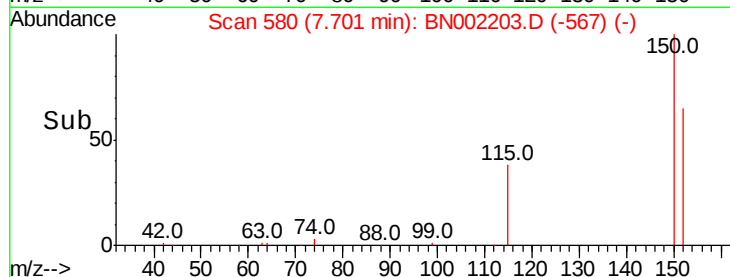
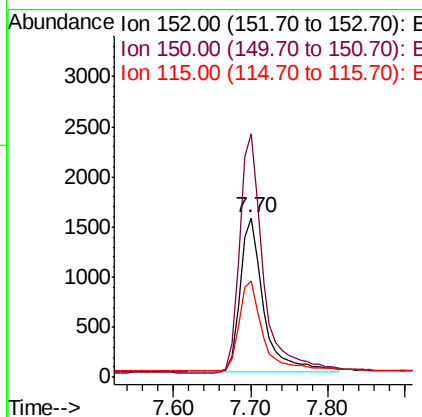
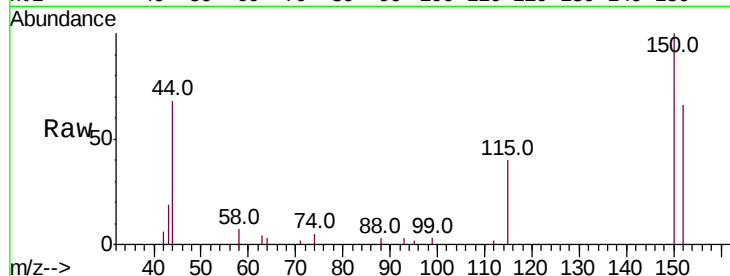
ClientSampleId :

1548DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.5	117.2	175.8
115	60.4	57.0	85.6

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#4

2-Fluorophenol

Concen: 0.034 ng

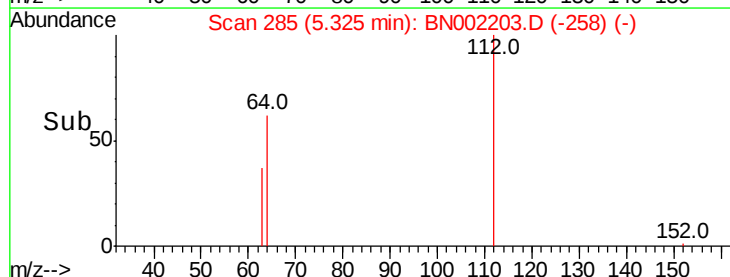
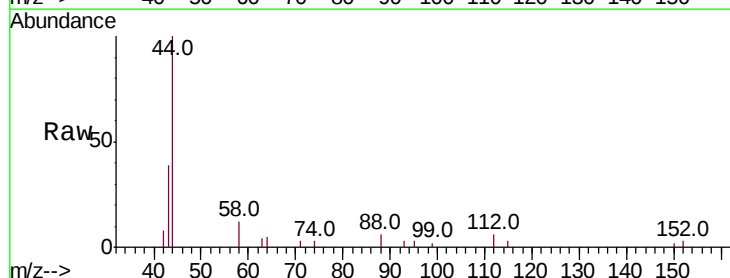
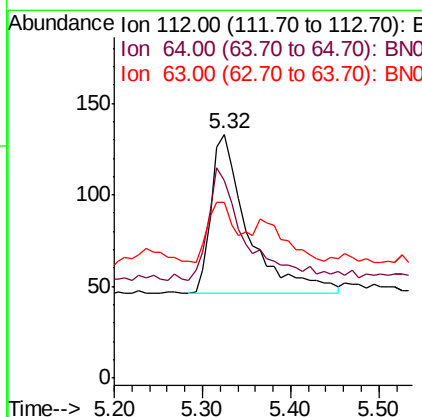
RT: 5.32 min Scan# 285

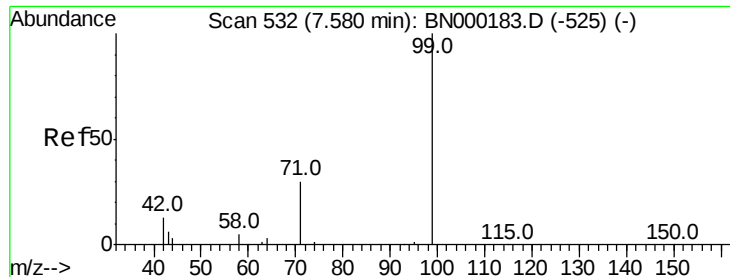
Delta R.T. 0.02 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.9	60.1	90.1
63	26.0	116.8	175.2#





#5

Phenol-d6

Concen: 0.025 ng/ml

RT: 6.92 min Scan# 483

Delta R.T. 0.04 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

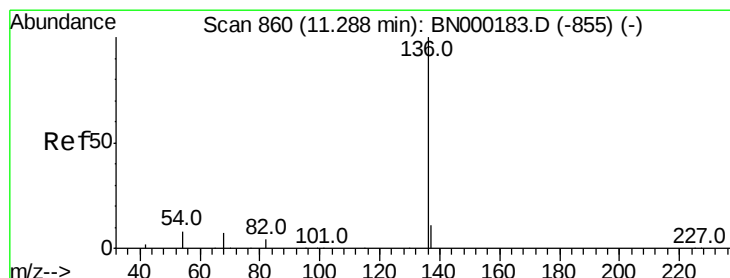
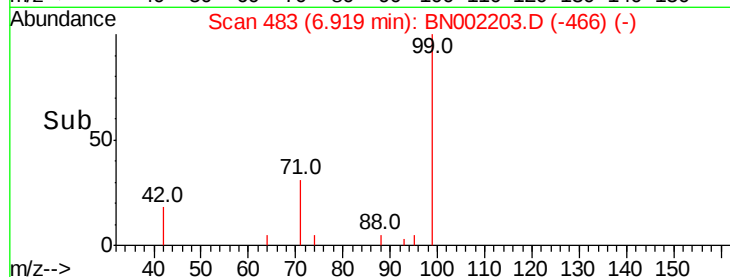
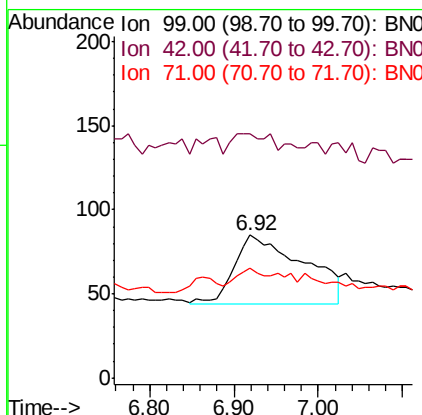
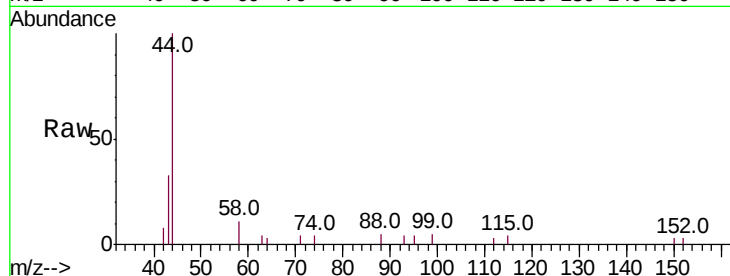
ClientSampled :

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Tot Ion:	99	Resp:	234
Ion	Ratio	Lower	Upper
99	100		
42	15.4	20.2	30.2#
71	9.4	28.4	42.6#

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#7

Naphthalene-d8

Concen: 0.400 ng/ml

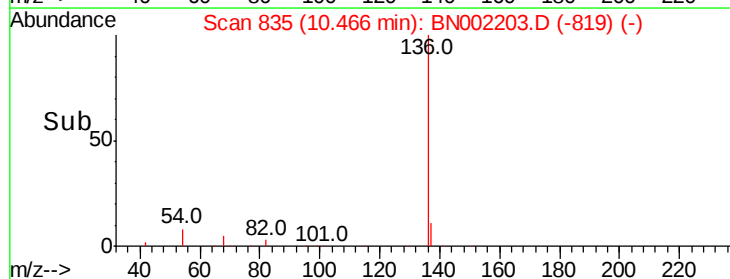
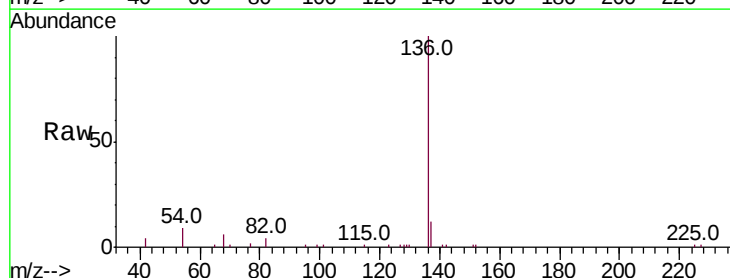
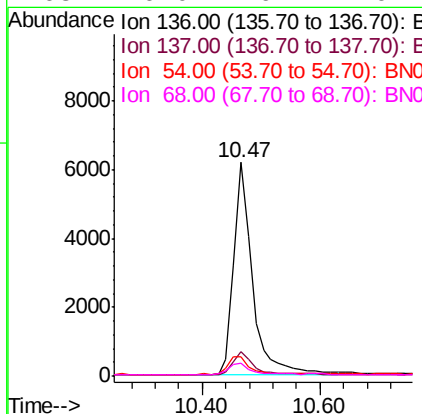
RT: 10.47 min Scan# 835

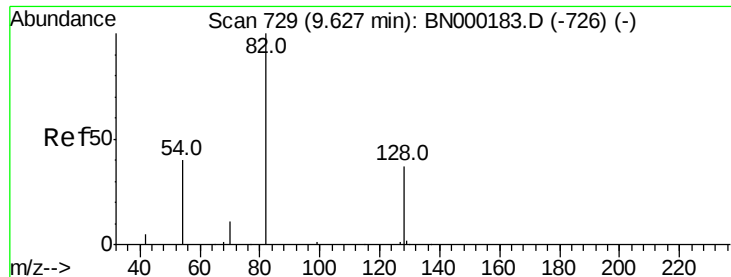
Delta R.T. -0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion:	136	Resp:	13484
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.5	14.3
54	9.1	29.1	43.7#
68	6.0	6.2	9.2#





#8

Nitrobenzene-d5

Concen: 0.027 ng/ml

RT: 8.89 min Scan# 711

Delta R.T. 0.05 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

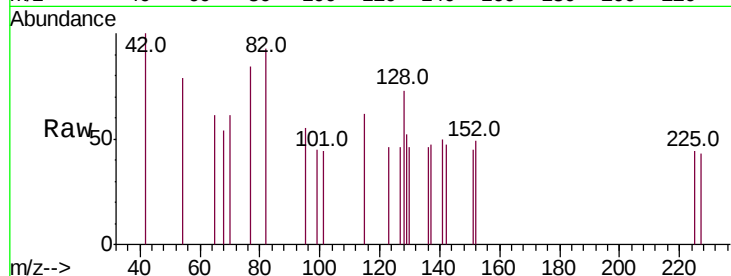
ClientSampleId :

1548DL

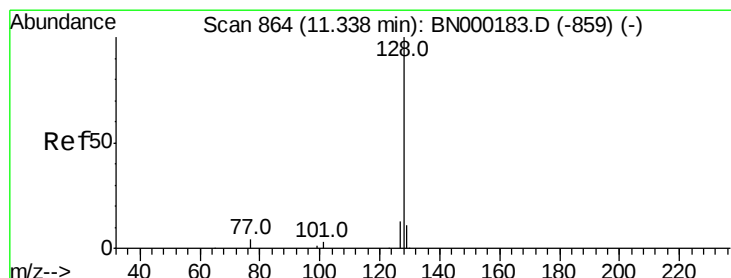
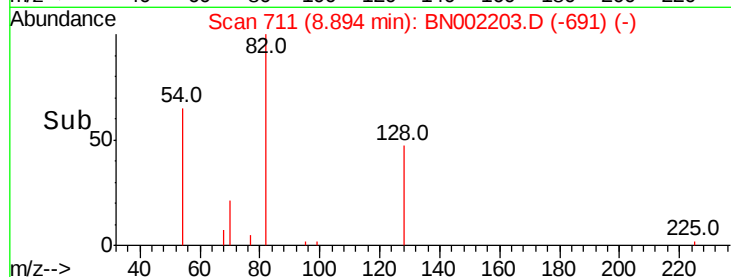
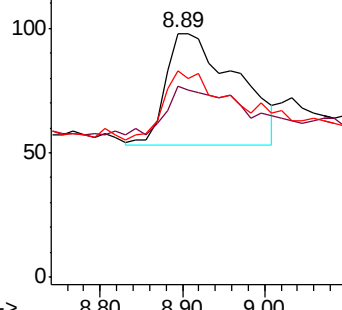
Tot Ion:	82	Resp:	271
Ion Ratio	Lower	Upper	
82	100		
128	78.6	150.0	225.0#
54	84.7	154.2	231.4#

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Abundance Ion 82.00 (81.70 to 82.70): BNC
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BNC



#9

Naphthalene

Concen: 0.480 ng

RT: 10.52 min Scan# 839

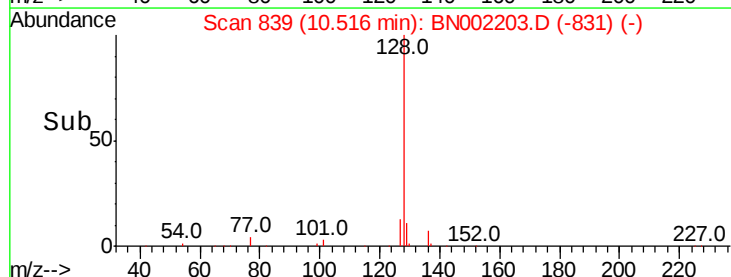
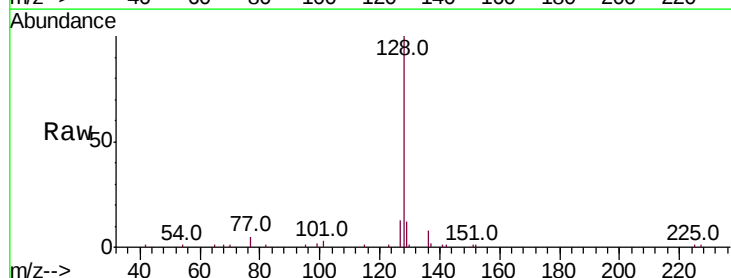
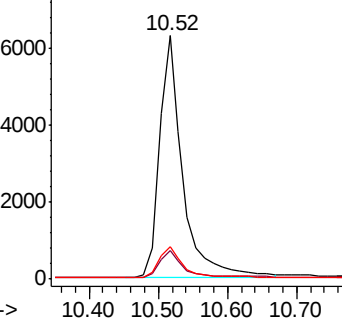
Delta R.T. -0.00 min

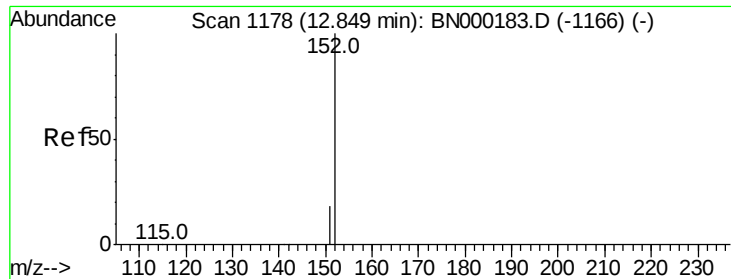
Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion:	128	Resp:	14595
Ion Ratio	Lower	Upper	
128	100		
129	11.9	8.0	12.0
127	13.3	9.6	14.4

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





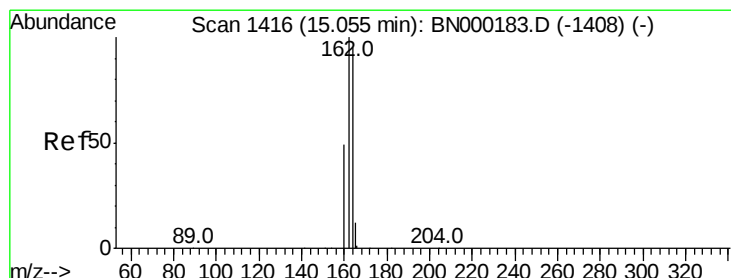
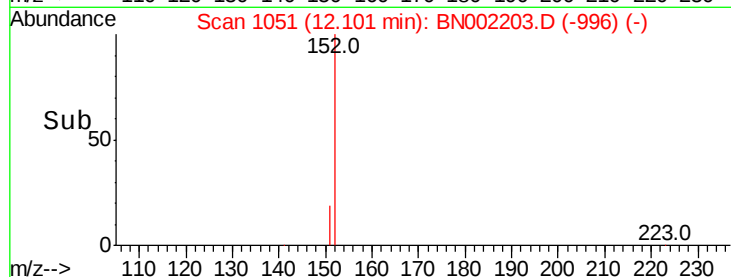
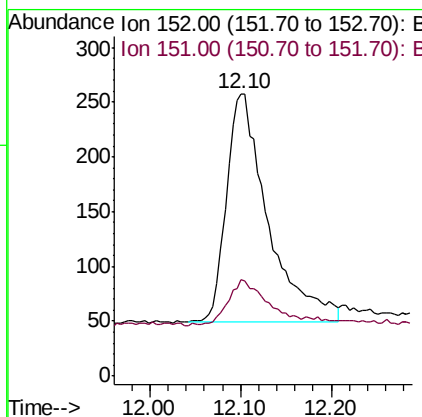
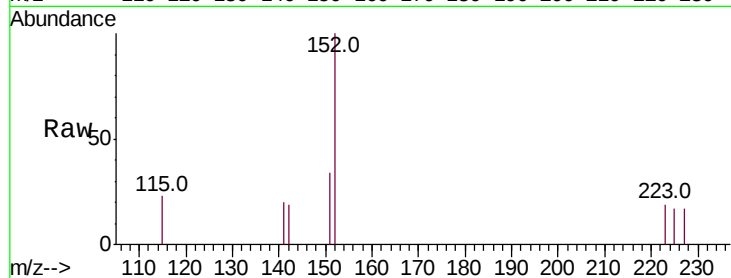
#11
2-Methylnaphthalene-d10
Concen: 0.034 ng
RT: 12.10 min Scan# 1051
Delta R.T. 0.04 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Instrument :
BNA_N
ClientSampled :
1548DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.4	23.0

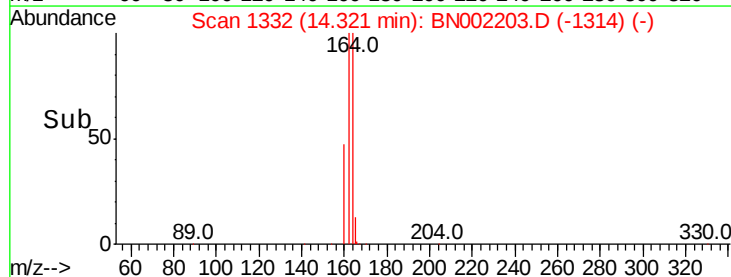
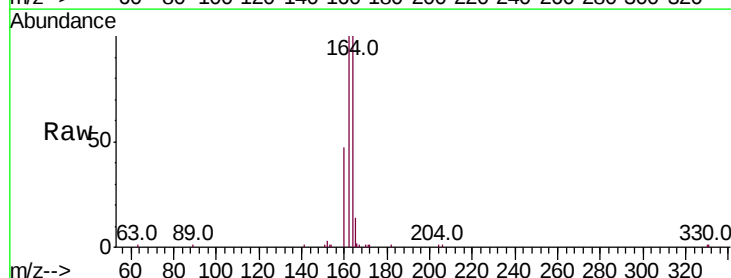
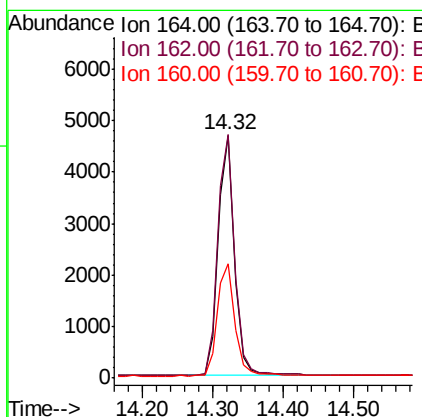
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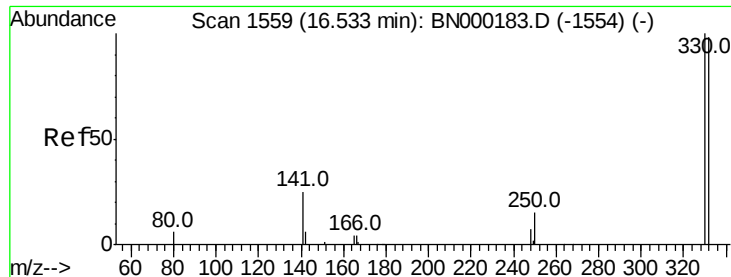
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#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.32 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.2	83.1	124.7
160	47.3	37.1	55.7





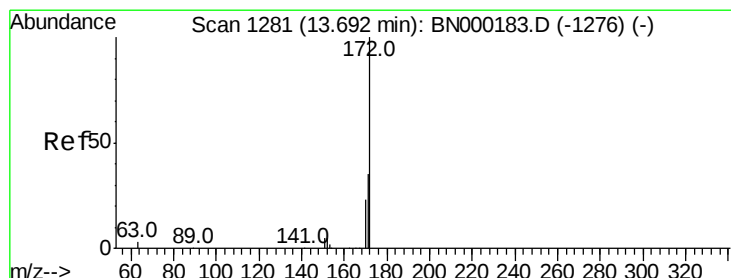
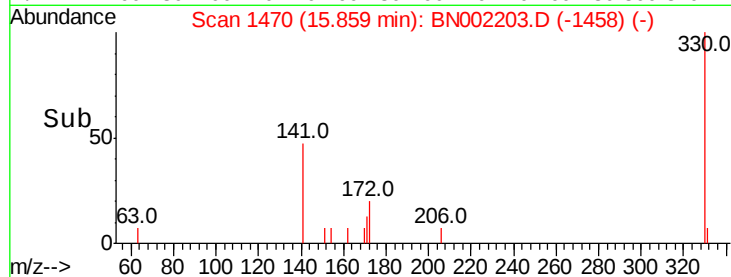
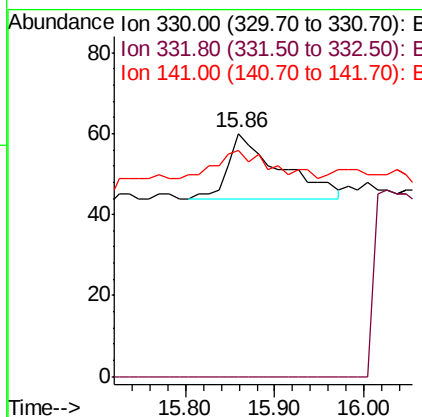
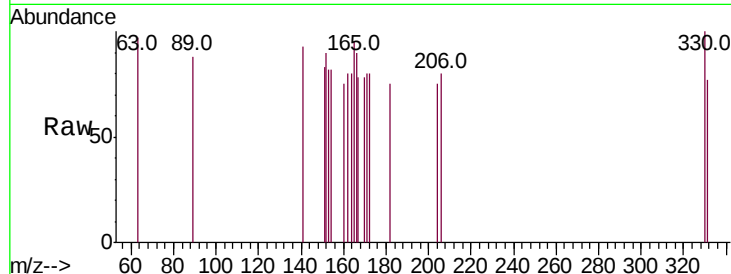
#14
2,4,6-Tribromophenol
Concen: 0.019 ng
RT: 15.86 min Scan# 1470
Delta R.T. 0.03 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Instrument :
BNA_N
ClientSampleId :
1548DL

Tot Ion:330 Resp: 64
Ion Ratio Lower Upper
330 100
332 0.0 152.7 229.1#
141 42.2 33.7 50.5

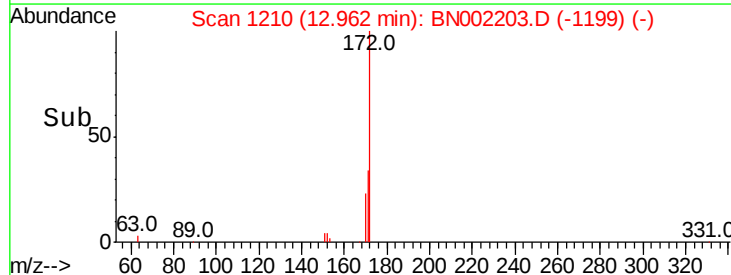
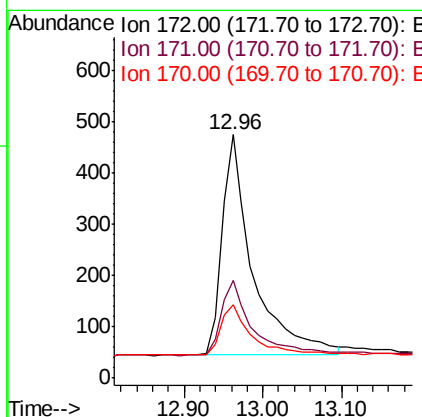
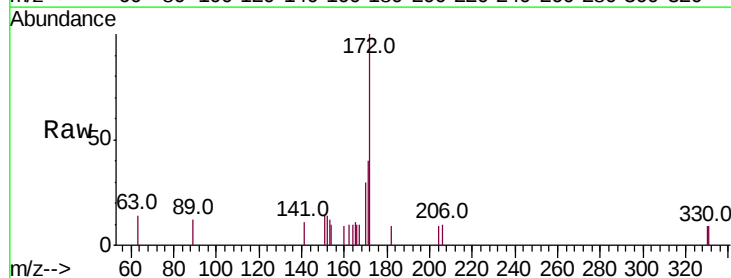
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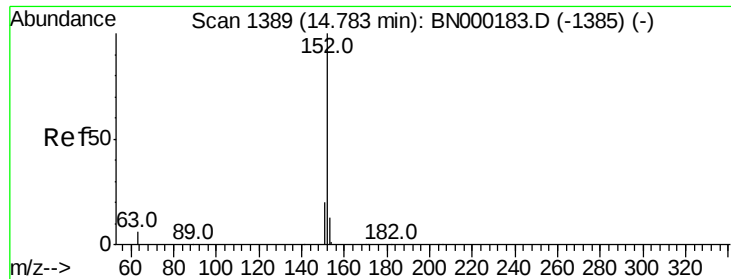
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#15
2-Fluorobiphenyl
Concen: 0.040 ng
RT: 12.96 min Scan# 1210
Delta R.T. 0.02 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Tgt Ion:172 Resp: 1180
Ion Ratio Lower Upper
172 100
171 40.1 29.9 44.9
170 30.4 21.8 32.8





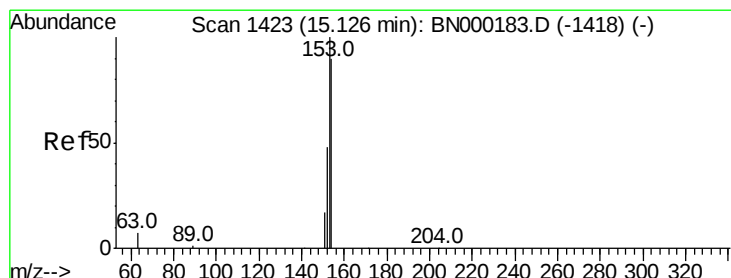
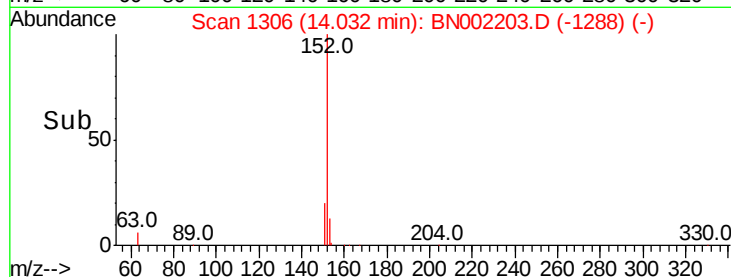
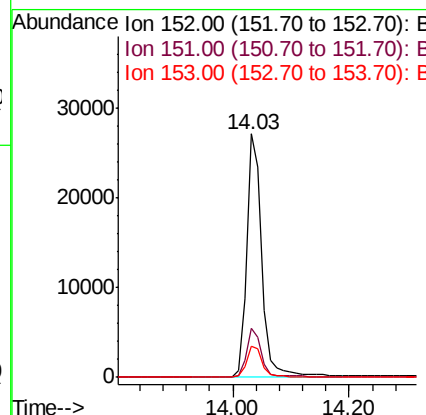
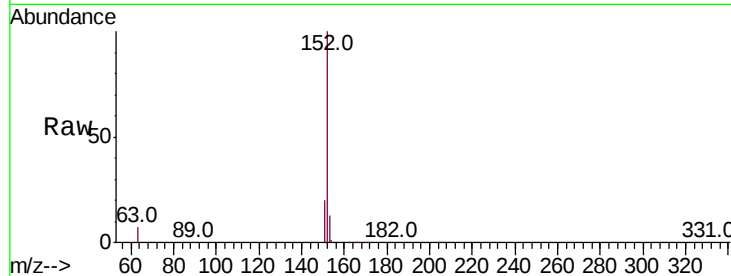
#16
Acenaphthylene
Concen: 1.488 ng
RT: 14.03 min Scan# 1306
Delta R.T. -0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Instrument :
BNA_N
ClientSampleId :
1548DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	13.0	10.5	15.7

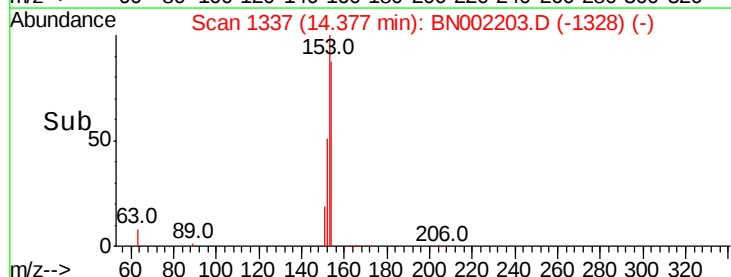
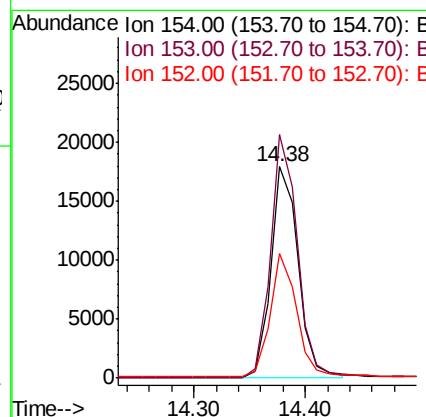
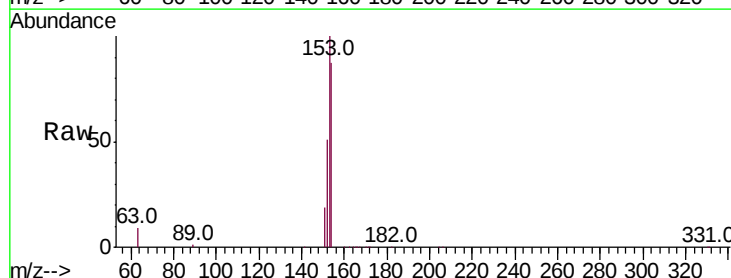
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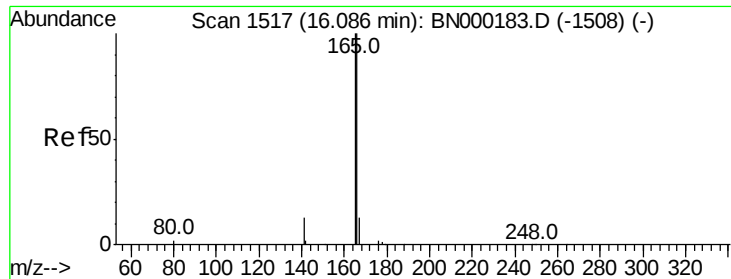
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#17
Acenaphthene
Concen: 1.428 ng
RT: 14.38 min Scan# 1337
Delta R.T. -0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.2	89.2	133.8
152	56.5	42.0	63.0





#18

Fluorene

Concen: 0.203 ng

RT: 15.39 min Scan# 1428

Delta R.T. 0.02 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

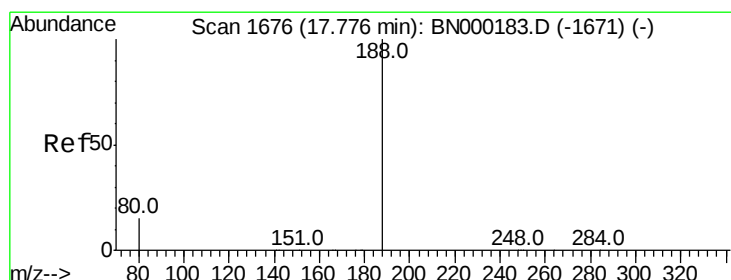
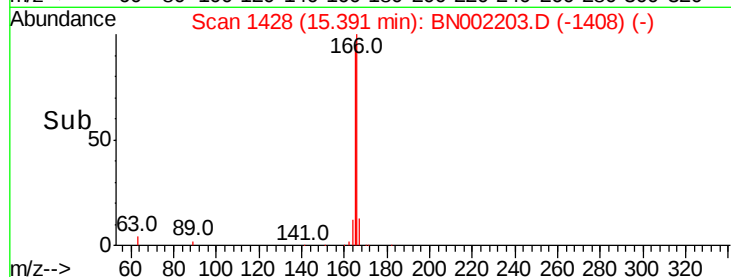
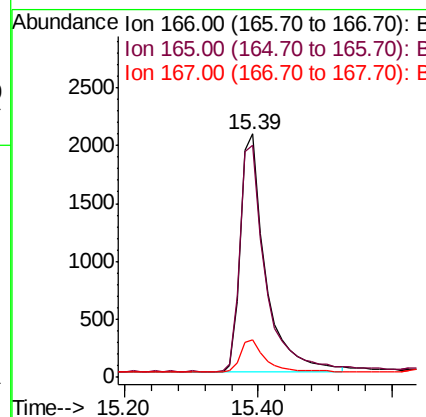
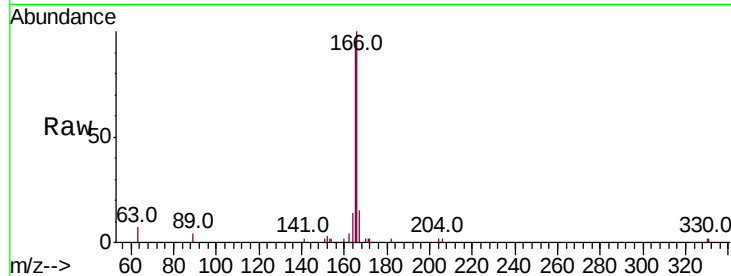
ClientSampled :

1548DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.8	77.8	116.6
167	13.1	42.4	63.6#

Manual Integrations
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#19

Phenanthrene-d10

Concen: 0.400 ng

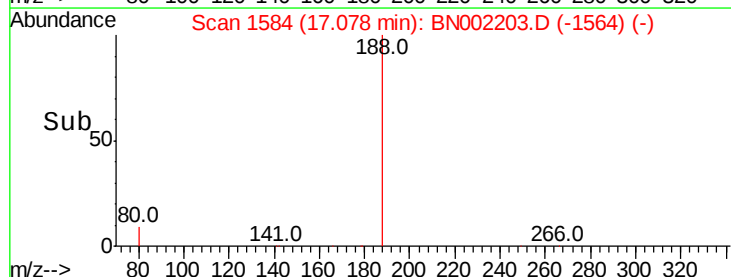
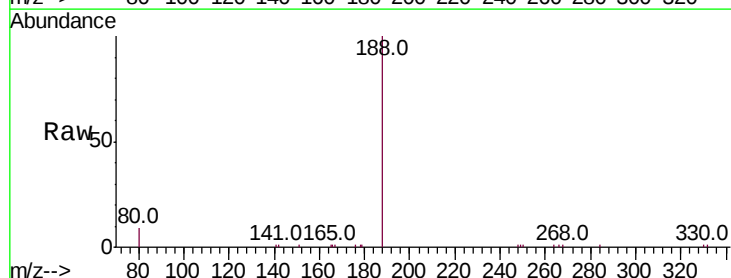
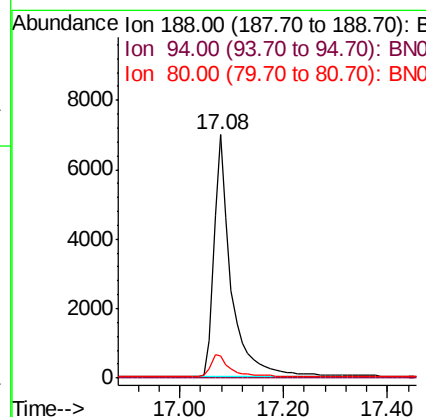
RT: 17.08 min Scan# 1584

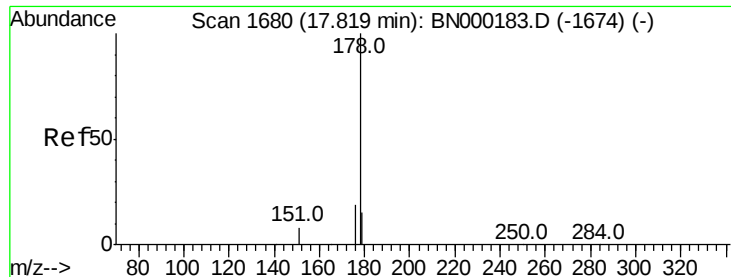
Delta R.T. 0.01 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	3.9	5.9#
80	9.2	3.6	5.4#





#23

Phenanthrene

Concen: 0.097 ng

RT: 17.12 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

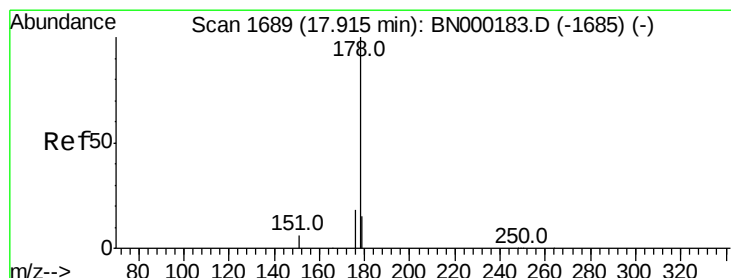
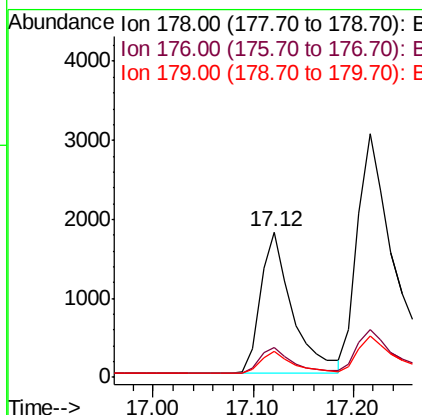
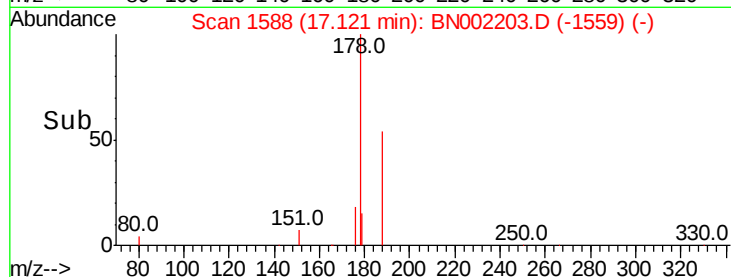
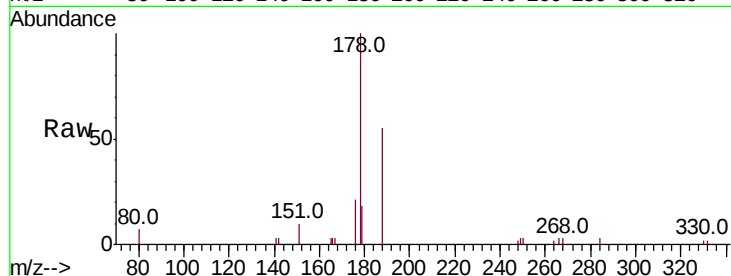
ClientSampled :

1548DL

Tot Ion:178	Resp:	3931
Ion Ratio	Lower	Upper
178	100	
176	19.0	15.1 22.7
179	15.5	11.8 17.6

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#24

Anthracene

Concen: 0.254 ng m

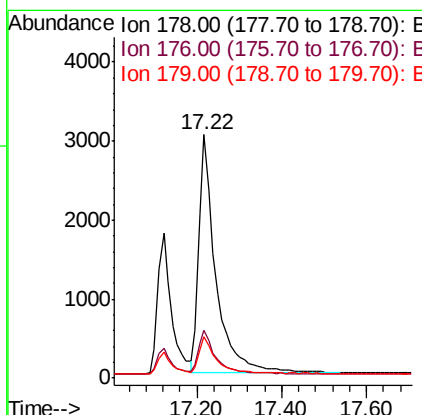
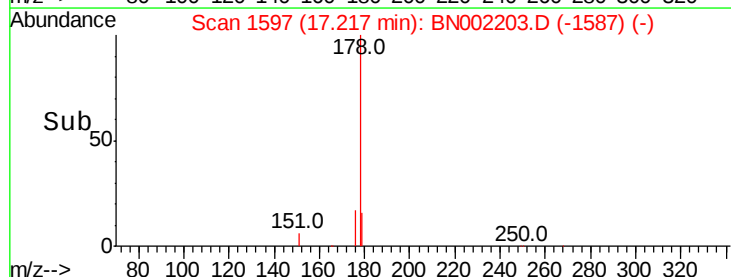
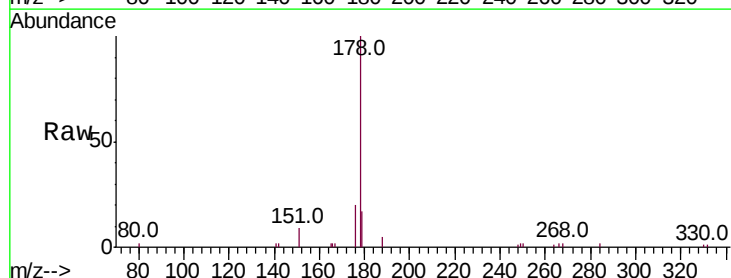
RT: 17.22 min Scan# 1597

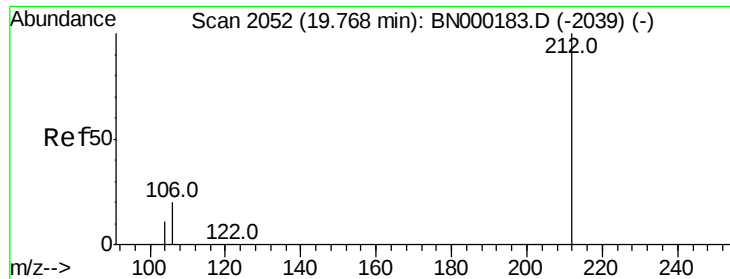
Delta R.T. 0.01 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion:178	Resp:	8490
Ion Ratio	Lower	Upper
178	100	
176	14.4	12.8 19.2
179	12.0	13.0 19.6#





#25

Fluoranthene-d10

Concen: 0.036 ng

RT: 19.11 min Scan# 1893

Delta R.T. 0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

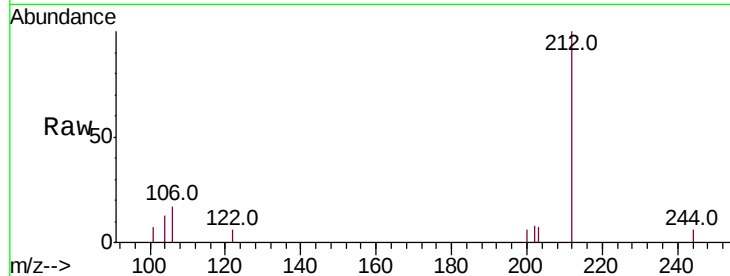
ClientSampled :

1548DL

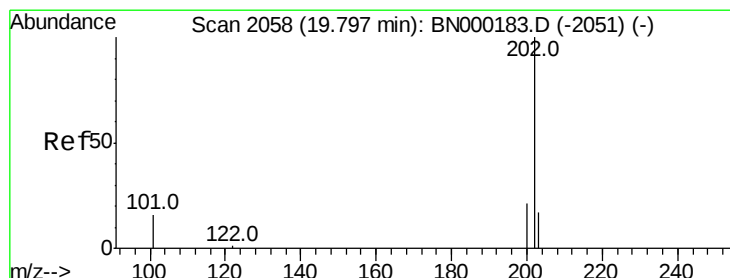
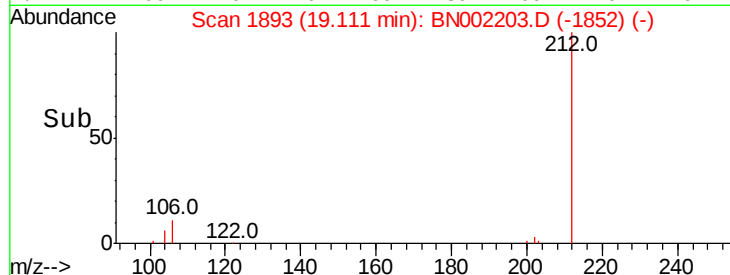
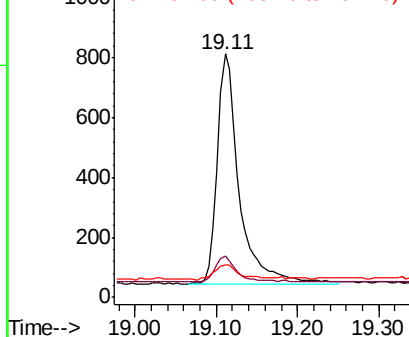
Tot Ion:	212	Resp:	1429
Ion Ratio	Lower	Upper	
212	100		
106	11.1	2.8	4.2#
104	7.4	1.6	2.4#

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Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.186 ng

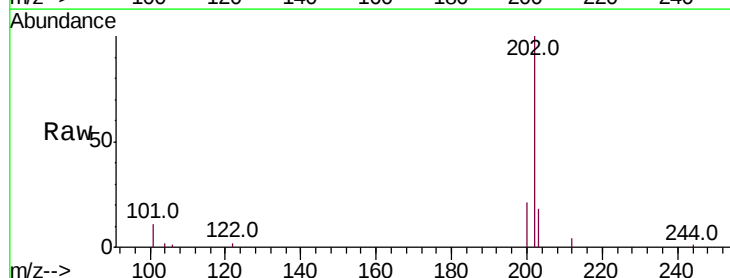
RT: 19.14 min Scan# 1899

Delta R.T. 0.00 min

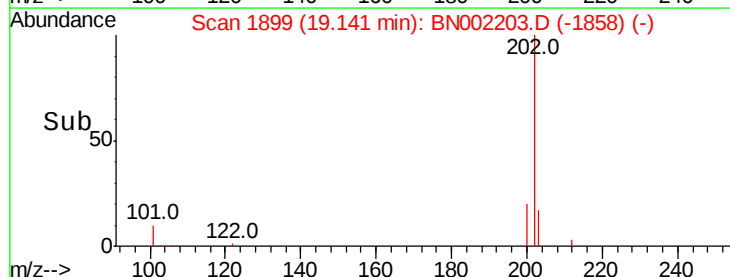
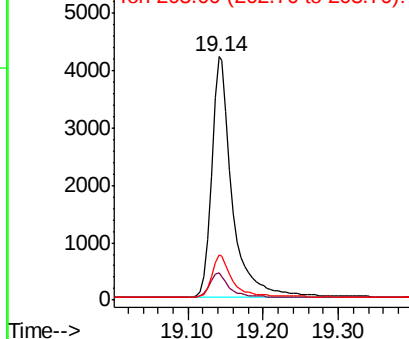
Lab File: BN002203.D

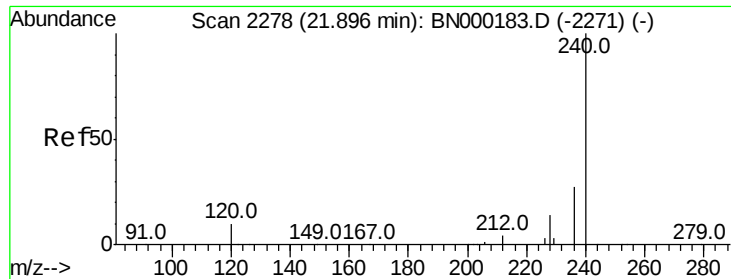
Acq: 31 Jul 2018 09:48

Tgt Ion:	202	Resp:	8150
Ion Ratio	Lower	Upper	
202	100		
101	9.7	9.8	14.8#
203	17.3	13.7	20.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

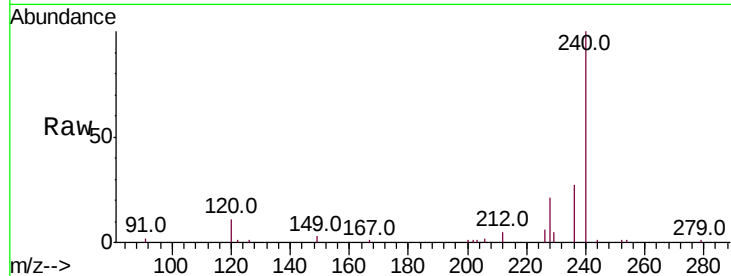
ClientSampled :

1548DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.9	5.5	8.3#
236	26.6	20.7	31.1

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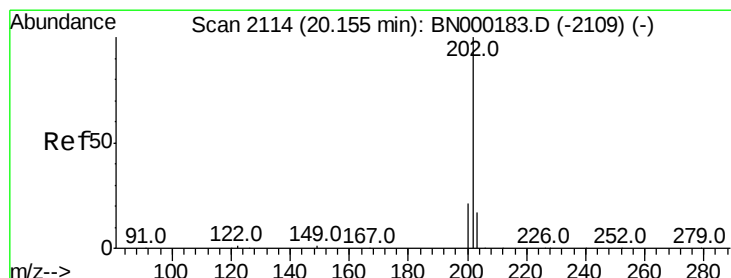
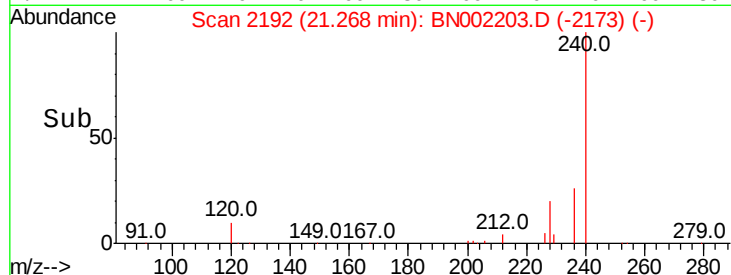
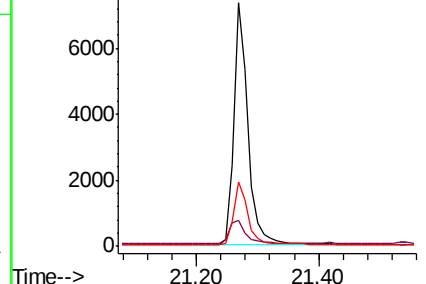
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.282 ng

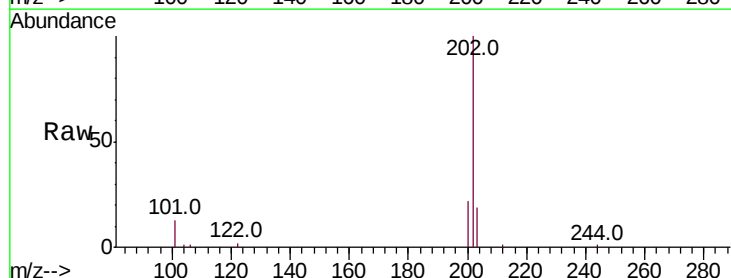
RT: 19.50 min Scan# 1972

Delta R.T. 0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

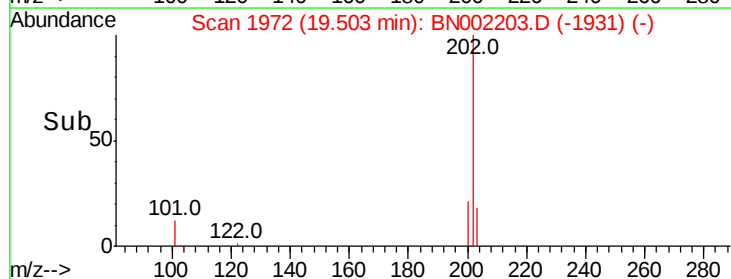
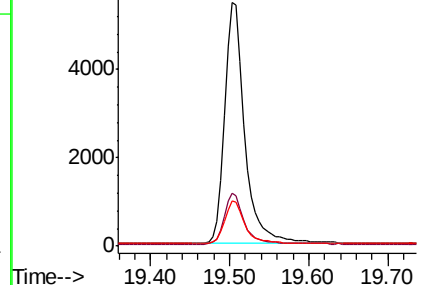
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.6	25.0
203	17.9	13.8	20.8

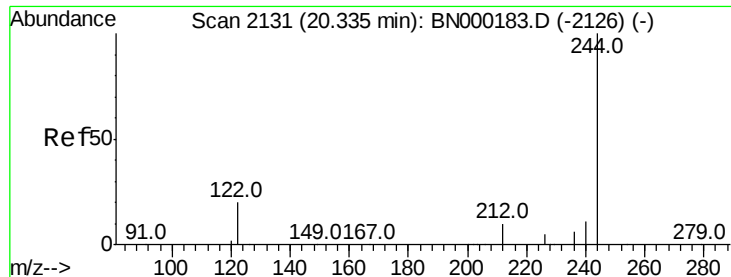


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





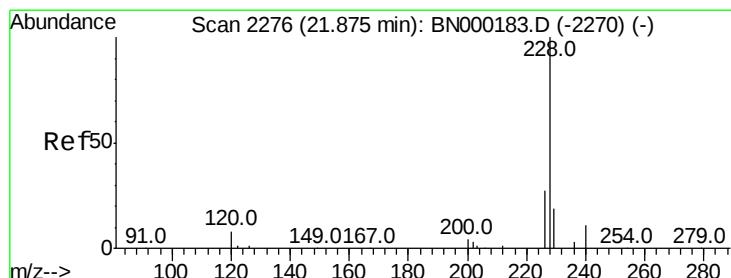
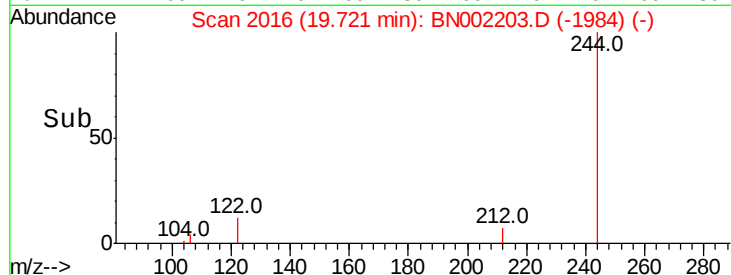
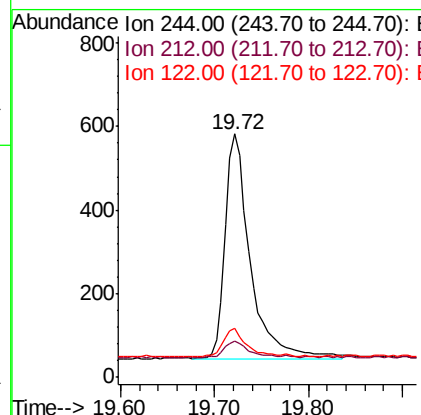
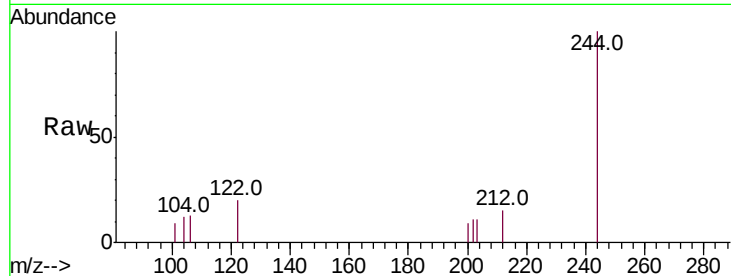
#29
Terphenyl-d14
Concen: 0.040 ng
RT: 19.72 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Instrument :
BNA_N
ClientSampled :
1548DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	14.9	25.4	38.0#
122	20.1	8.1	12.1#

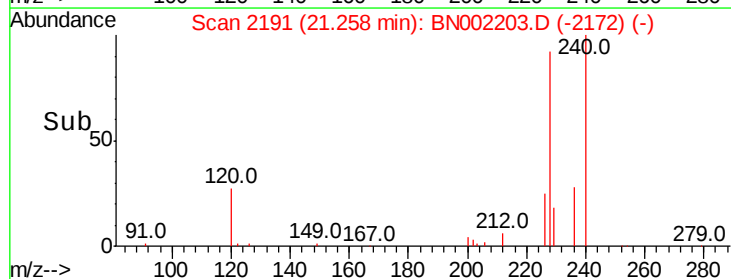
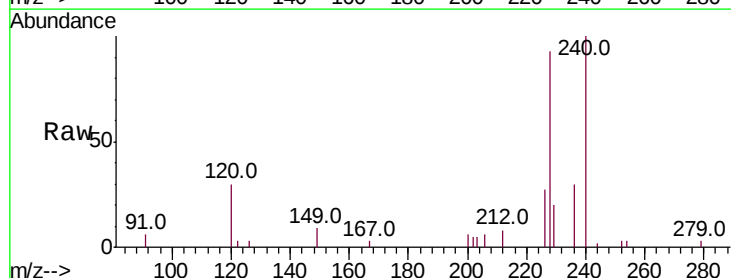
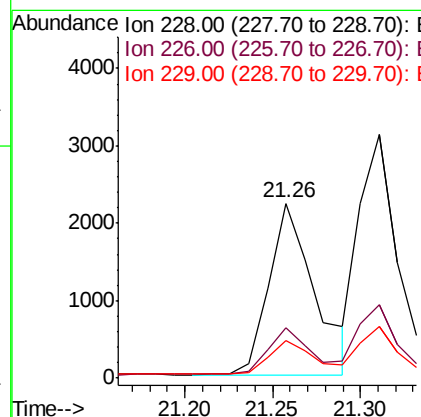
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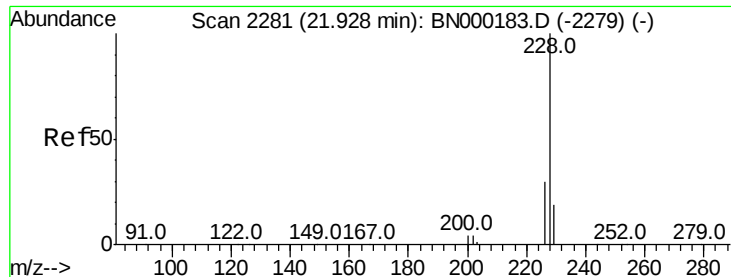
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#30
Benzo(a)anthracene
Concen: 0.133 ng
RT: 21.26 min Scan# 2191
Delta R.T. -0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	24.0	36.0
229	21.7	16.0	24.0





#31

Chrysene

Concen: 0.144 ng

RT: 21.31 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

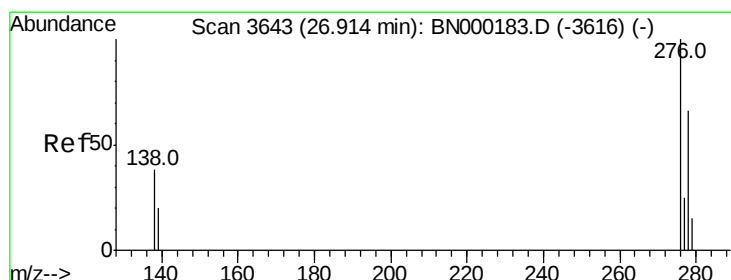
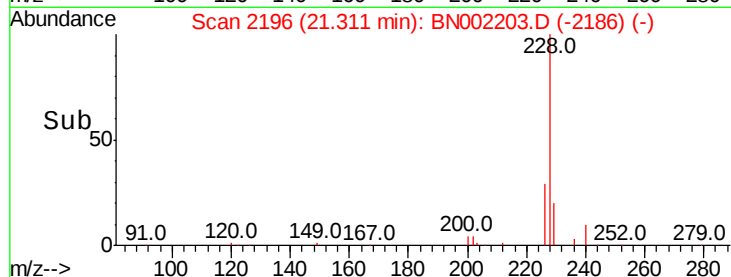
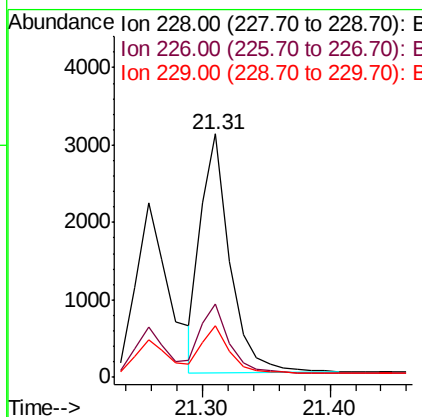
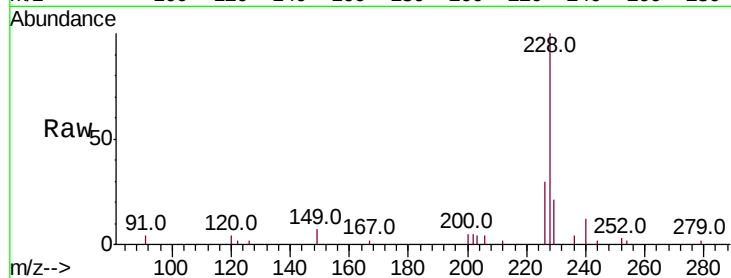
ClientSampled :

1548DL

Tot Ion:	228	Resp:	4829
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.0	36.0
229	21.0	16.0	24.0

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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.332 ng

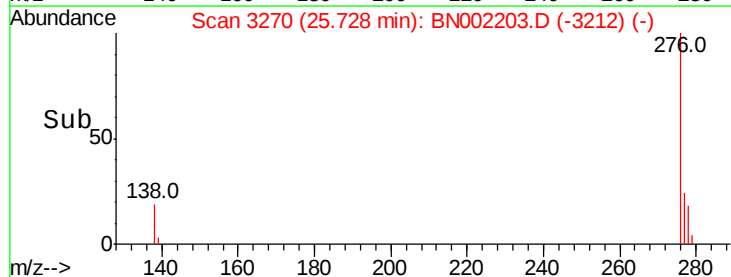
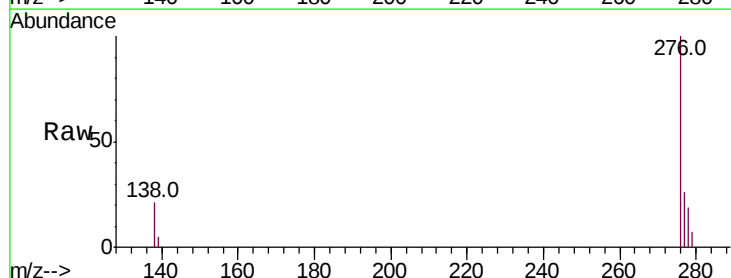
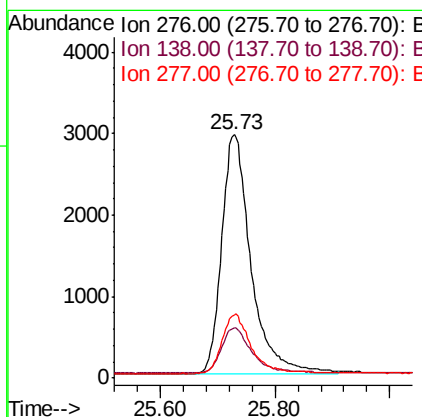
RT: 25.73 min Scan# 3270

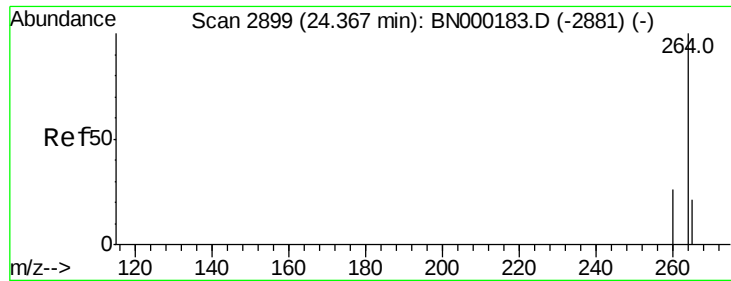
Delta R.T. -0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion:	276	Resp:	10470
Ion Ratio	Lower	Upper	
276	100		
138	19.3	22.5	33.7#
277	24.2	19.9	29.9





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.50 min Scan# 2619

Delta R.T. -0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Instrument :

BNA_N

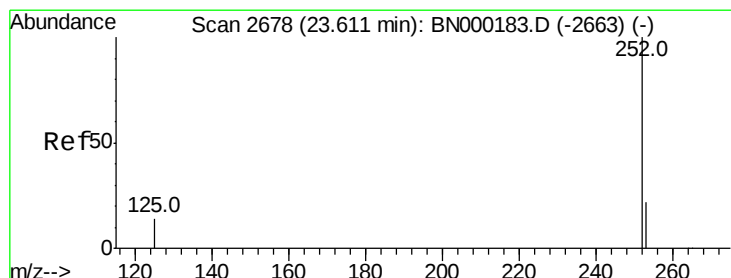
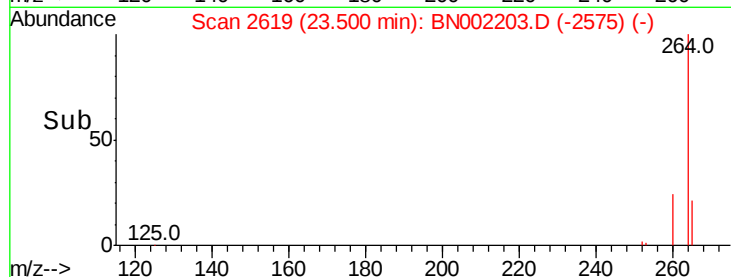
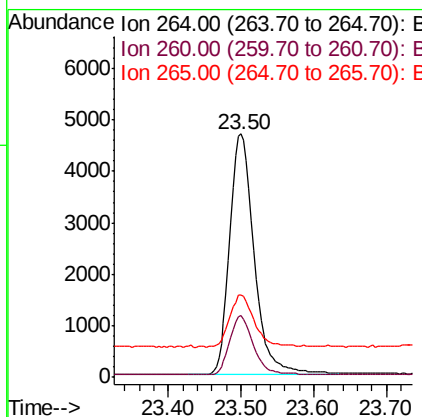
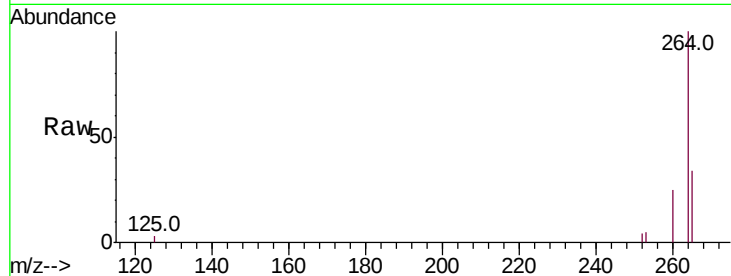
ClientSampleId :

1548DL

Tot Ion:	264	Resp:	10908
Ion Ratio	Lower	Upper	
264	100		
260	25.2	20.5	30.7
265	33.7	22.8	34.2

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#35

Benzo(b)fluoranthene

Concen: 0.088 ng

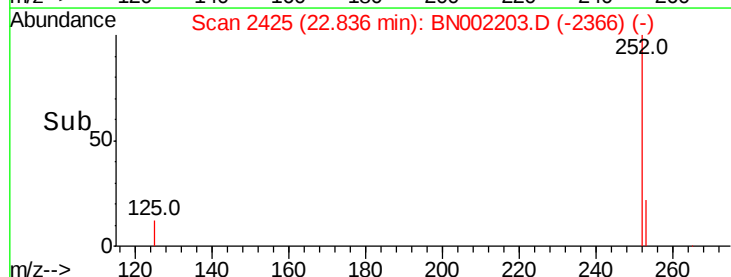
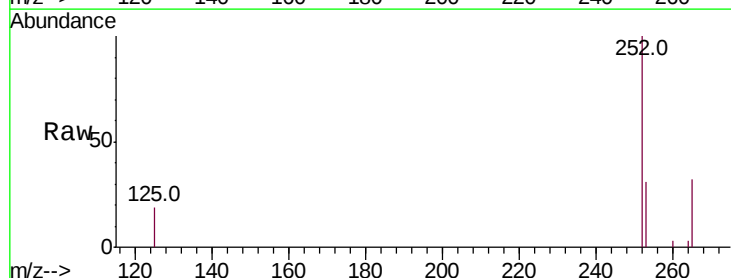
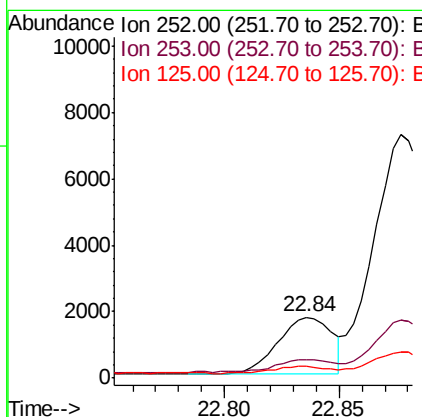
RT: 22.84 min Scan# 2425

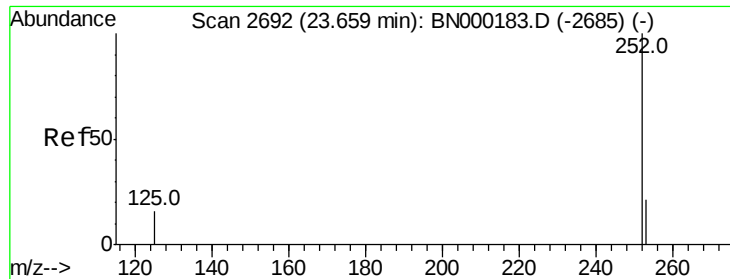
Delta R.T. 0.00 min

Lab File: BN002203.D

Acq: 31 Jul 2018 09:48

Tgt Ion:	252	Resp:	2823
Ion Ratio	Lower	Upper	
252	100		
253	30.8	20.0	30.0#
125	19.0	16.0	24.0





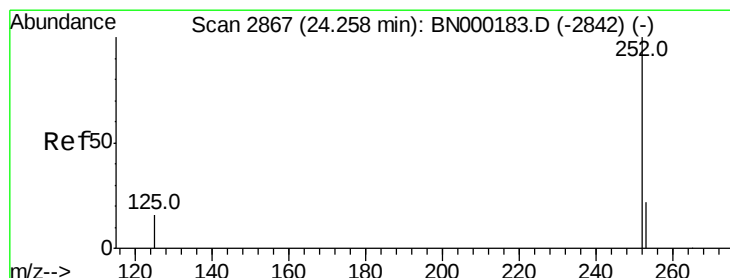
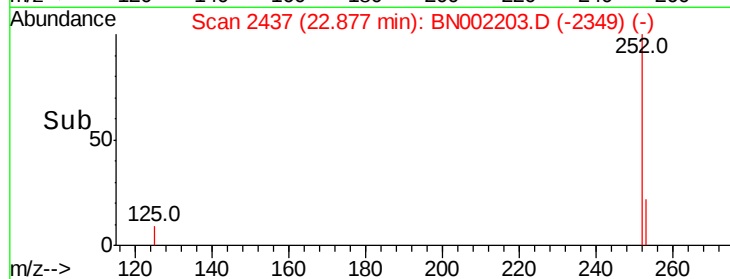
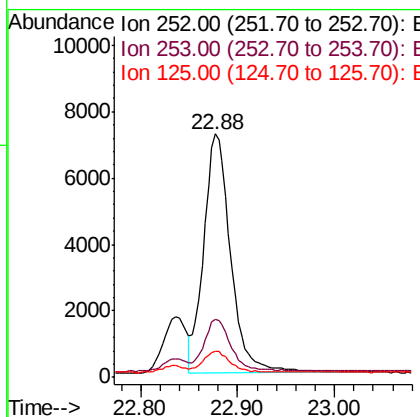
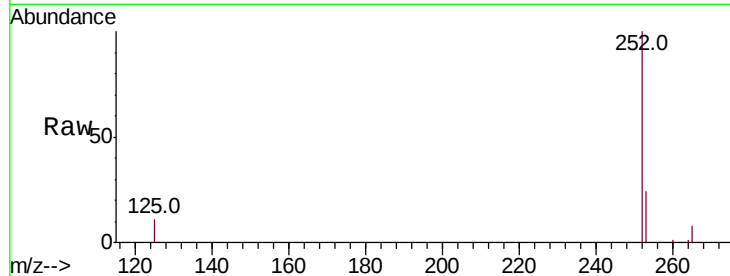
#36
Benzo(k)fluoranthene
Concen: 0.415 ng
RT: 22.88 min Scan# 2437
Delta R.T. -0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Instrument :
BNA_N
ClientSampled :
1548DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	16.0	24.0
125	10.8	8.0	12.0

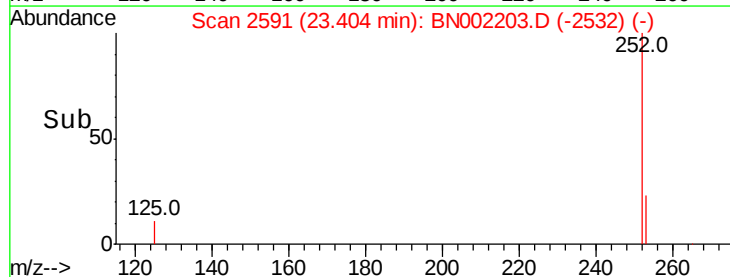
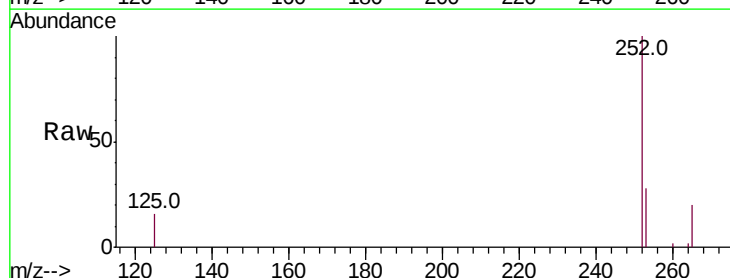
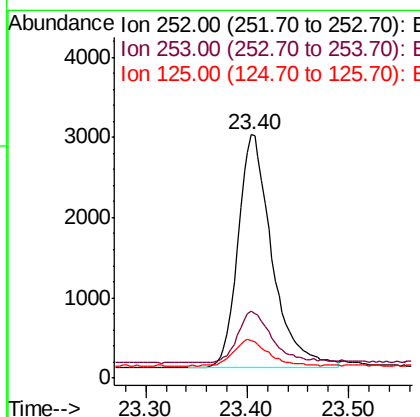
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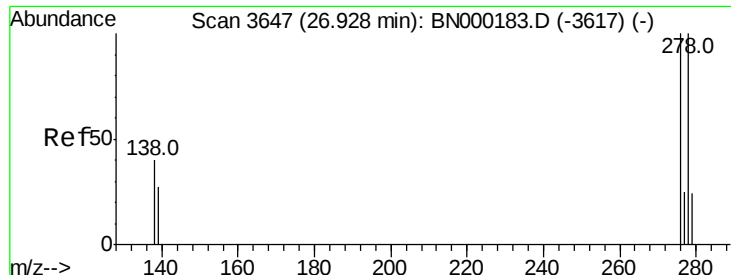
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#37
Benzo(a)pyrene
Concen: 0.235 ng
RT: 23.40 min Scan# 2591
Delta R.T. 0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	16.0	24.0#
125	15.5	12.0	18.0





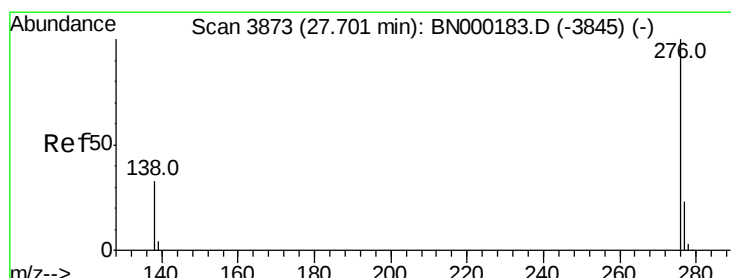
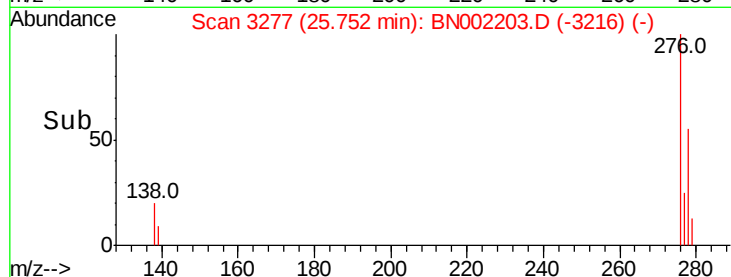
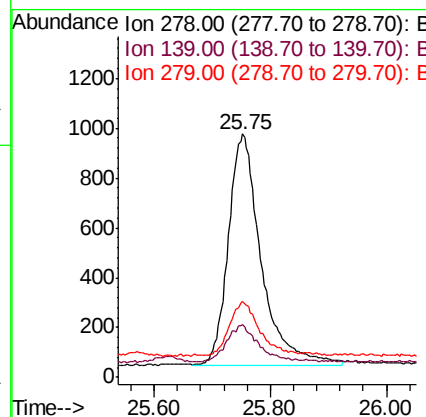
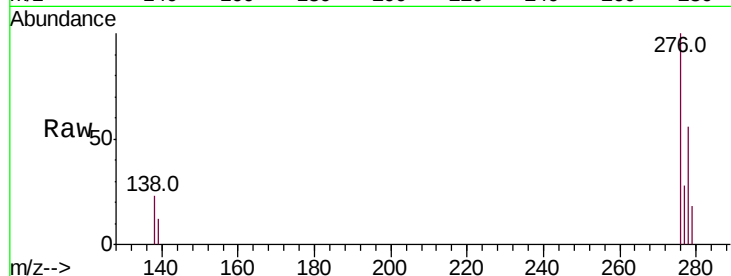
#38
Dibenzo(a,h)anthracene
Concen: 0.128 ng
RT: 25.75 min Scan# 3277
Delta R.T. 0.01 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Instrument :
BNA_N
ClientSampleId :
1548DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.5	16.0	24.0
279	31.1	20.0	30.0

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8/1/2018 4:49:22 PM



#39
Benzo(g,h,i)perylene
Concen: 0.270 ng
RT: 26.41 min Scan# 3468
Delta R.T. -0.00 min
Lab File: BN002203.D
Acq: 31 Jul 2018 09:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	16.0	24.0
138	21.2	20.0	30.0

