

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011520\
 Data File : BG044060.D
 Acq On : 15 Jan 2020 21:47
 Operator : JU
 Sample : L1004-04DL 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BU-RO-234DL

Manual Integrations
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Quant Time: Jan 16 08:40:38 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 31 13:32:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.94	152	109553	20.00	ng	-0.02
21) Naphthalene-d8	10.74	136	481711	20.00	ng	-0.02
39) Acenaphthene-d10	14.57	164	310383	20.00	ng	-0.02
64) Phenanthrene-d10	17.32	188	664417	20.00	ng	-0.02
76) Chrysene-d12	21.57	240	576059	20.00	ng	-0.02
87) Perylene-d12	24.68	264	652725	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	72244	12.11	ng	-0.02
7) Phenol-d6	7.11	99	103051	12.36	ng	-0.02
23) Nitrobenzene-d5	9.10	82	55983	6.22	ng	-0.02
42) 2,4,6-Tribromophenol	16.06	330	34688	10.68	ng	-0.02
45) 2-Fluorobiphenyl	13.20	172	133879	7.81	ng	-0.02
79) Terphenyl-d14	19.93	244	200033	-1.00	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	10.79	128	111826	4.797	ng	97
37) 2-Methylnaphthalene	12.40	142	87139	4.965	ng	97
38) 1-Methylnaphthalene	12.62	142	46702	2.808	ng	97
52) Acenaphthene	14.64	154	272873	15.054	ng	99
55) Dibenzofuran	14.97	168	291393	11.678	ng	94
58) Fluorene	15.62	166	415989	21.034	ng	98
71) Phenanthrene	17.36	178	2020501	63.401	ng	96
72) Anthracene	17.45	178	620681	19.707	ng	96
73) Carbazole	17.72	167	261812	8.999	ng	93
75) Fluoranthene	19.37	202	1950195	53.508	ng	97
78) Pyrene	19.73	202	1622295	43.144	ng	98
81) Benzo(a)anthracene	21.55	228	876251	24.531	ng	96
83) Chrysene	21.61	228	791113	23.309	ng	96
86) Indeno(1,2,3-cd)pyrene	28.20	276	457878	9.927	ng	94
88) Benzo(b)fluoranthene	23.70	252	997633	25.854	ng	99
89) Benzo(k)fluoranthene	23.75	252	417252m	11.371	ng	
90) Benzo(a)pyrene	24.53	252	725824	19.929	ng	97
91) Dibenzo(a,h)anthracene	28.24	278	121323	3.317	ng	98
92) Benzo(a,h,i)perylene	29.29	276	402013	11.065	ng	95

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

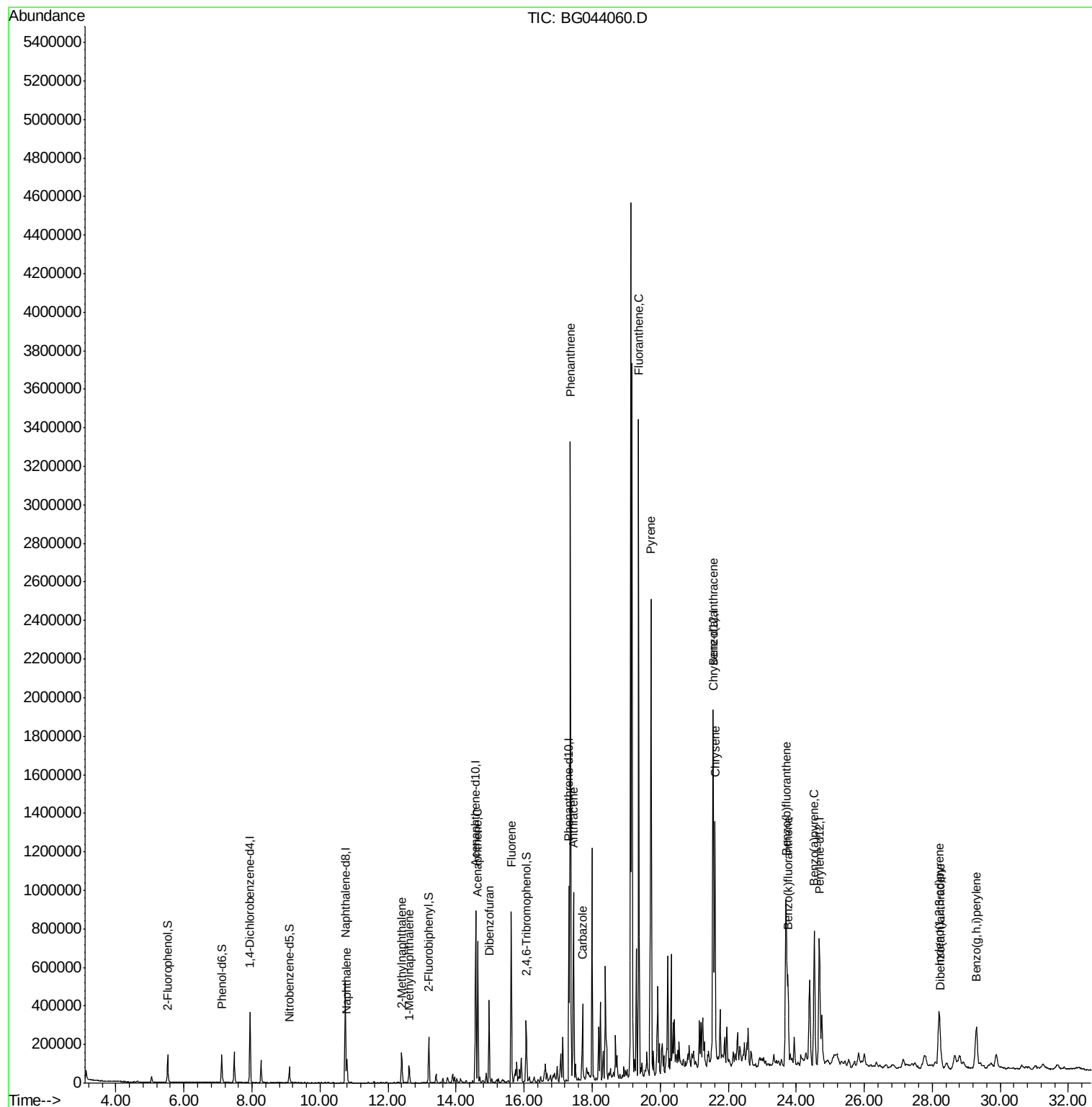
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011520\
Data File : BG044060.D
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ALS Vial : 11 Sample Multiplier: 1

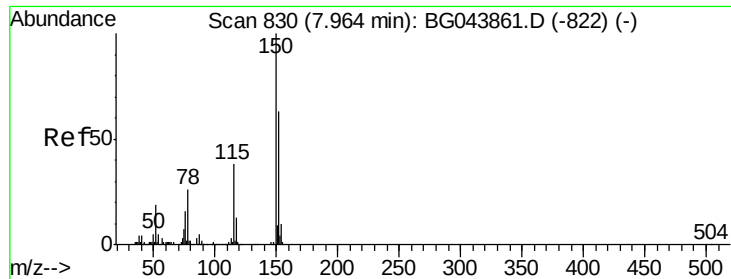
Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

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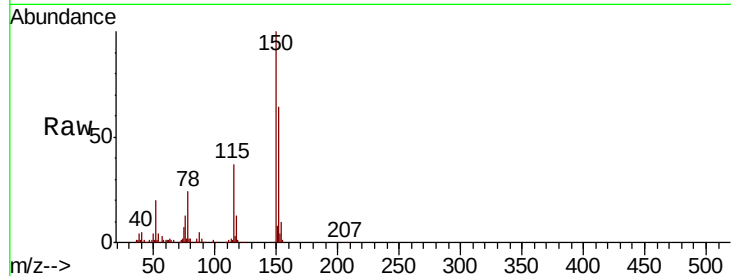
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.94 min Scan# 826
 Delta R.T. -0.02 min
 Lab File: BG044060.D
 Acq: 15 Jan 2020 21:47

Instrument :
 BNA_G
 ClientSampleID :
 BU-RO-234DL

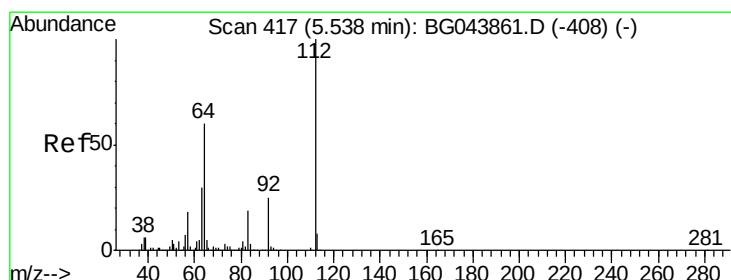
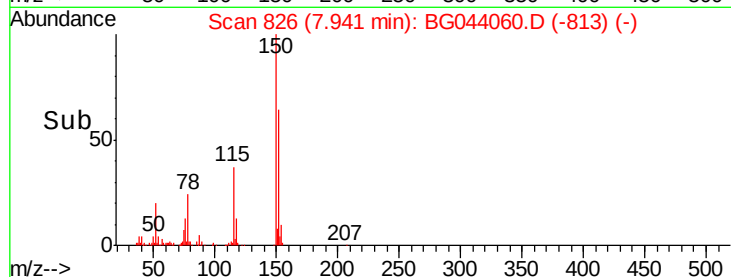
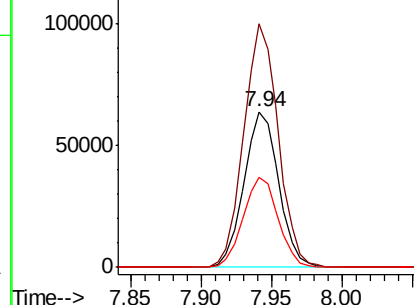
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	127.0	190.4
115	57.8	47.8	71.8

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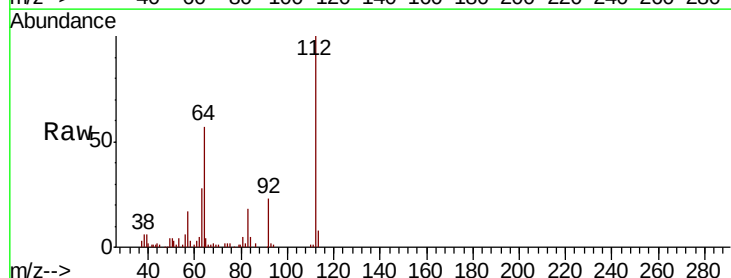


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

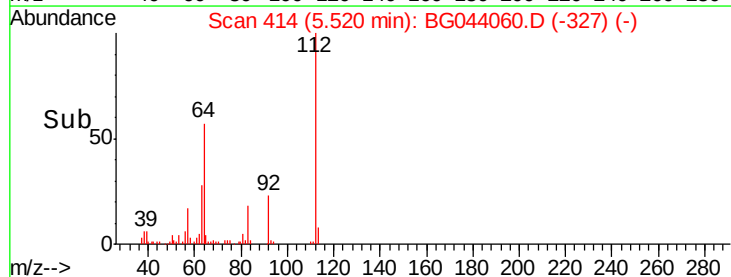
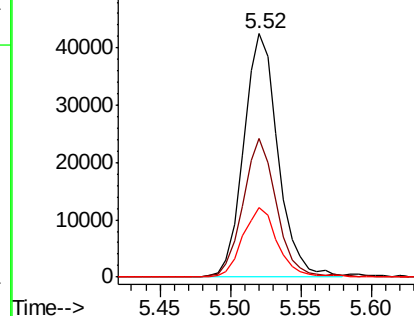


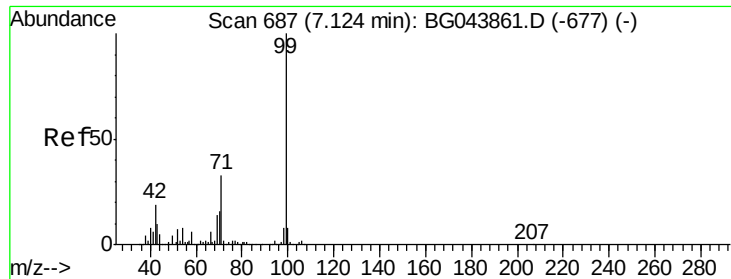
#5
 2-Fluorophenol
 Concen: 12.108 ng
 RT: 5.52 min Scan# 414
 Delta R.T. -0.02 min
 Lab File: BG044060.D
 Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	47.8	71.6
63	28.5	24.3	36.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BG
 Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 12.356 ng

RT: 7.11 min Scan# 684

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Instrument :

BNA_G

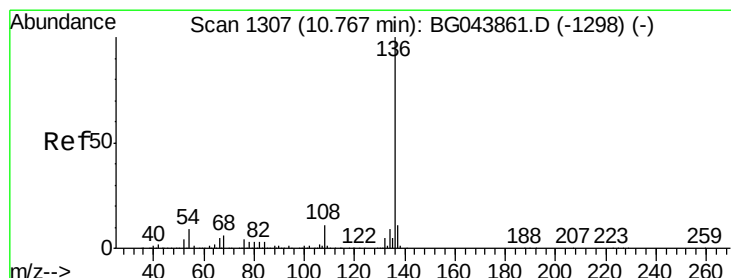
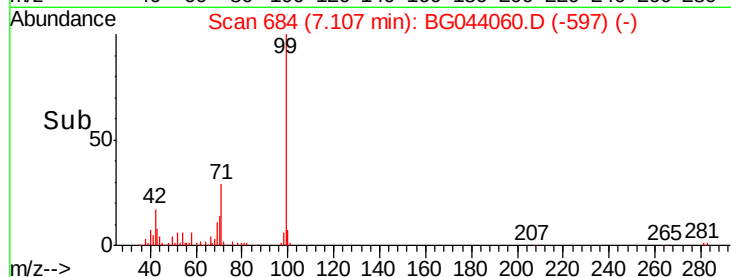
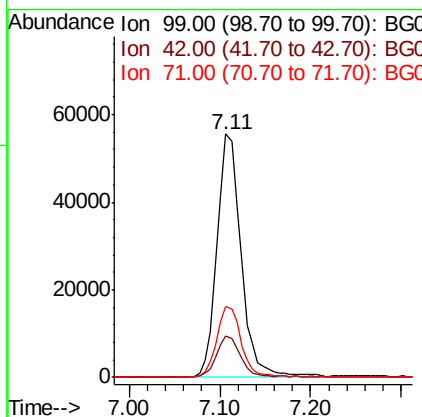
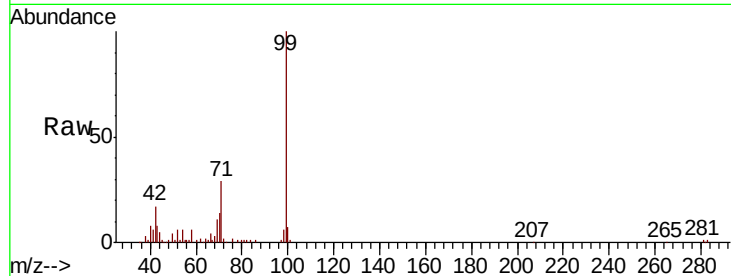
ClientSampleId :

BU-RO-234DL

Tot Ion:	99	Resp:	103051
Ion Ratio	Lower	Upper	
99	100		
42	17.0	14.9	22.3
71	28.9	26.4	39.6

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#21

Naphthalene-d8

Concen: 20.000 ng

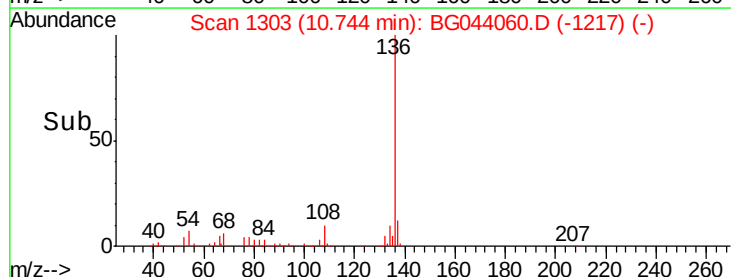
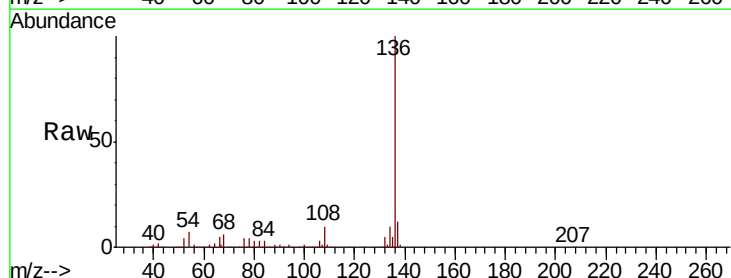
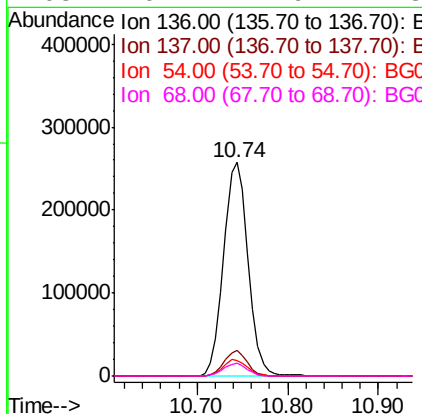
RT: 10.74 min Scan# 1303

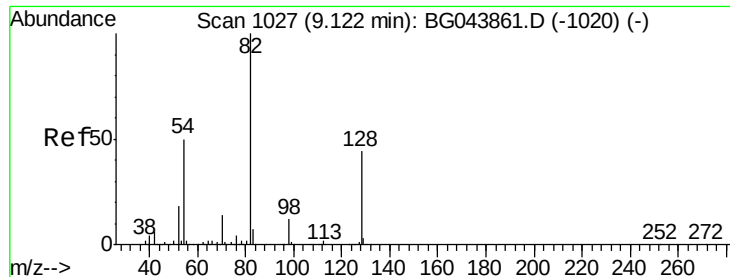
Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Tgt Ion:	136	Resp:	481711
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.8	13.2
54	7.4	7.0	10.4
68	6.2	4.9	7.3





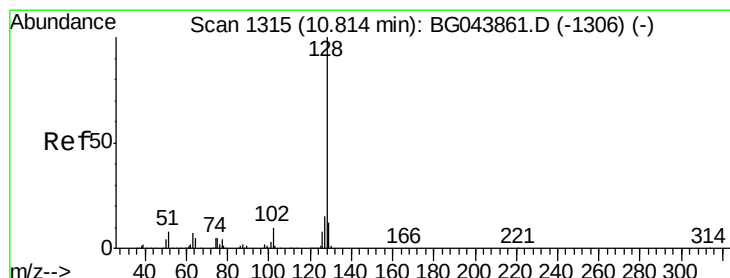
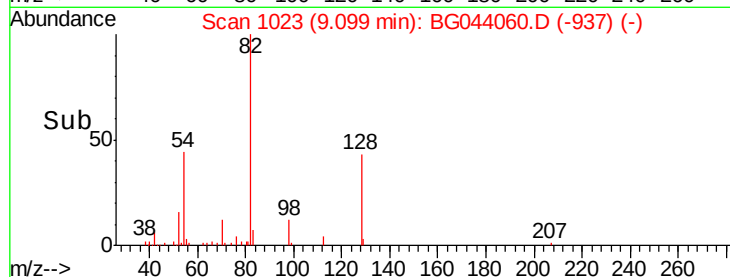
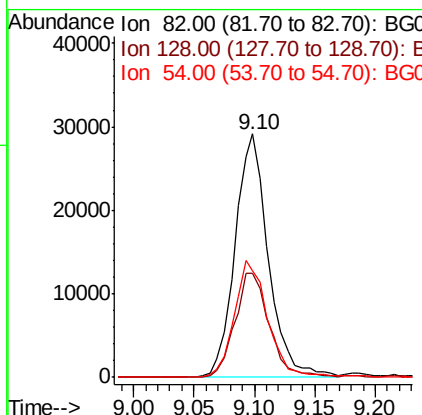
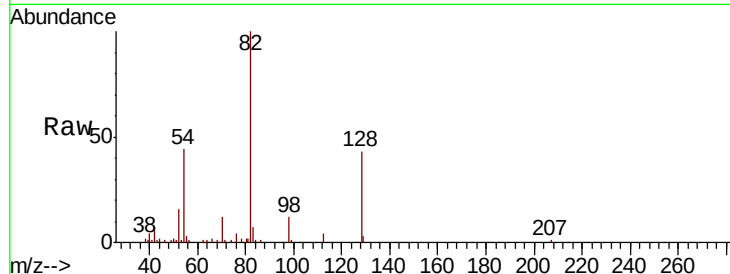
#23
Nitrobenzene-d5
Concen: 6.217 ng
RT: 9.10 min Scan# 1023
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.0	35.1	52.7
54	44.1	40.1	60.1

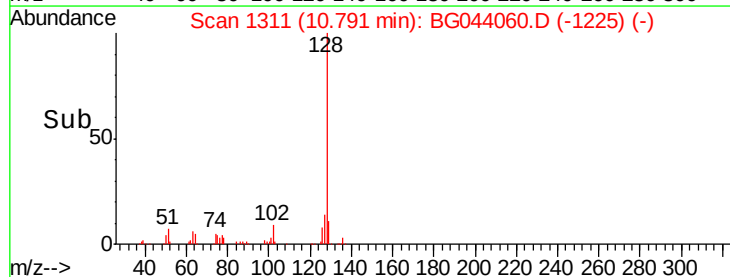
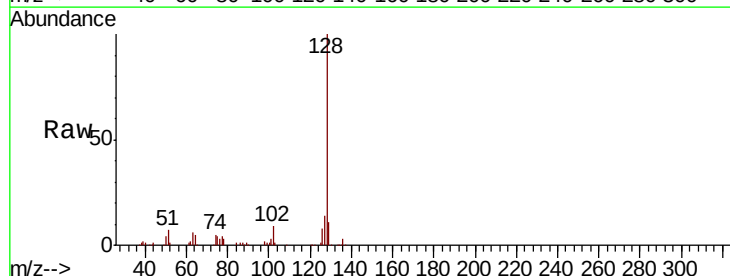
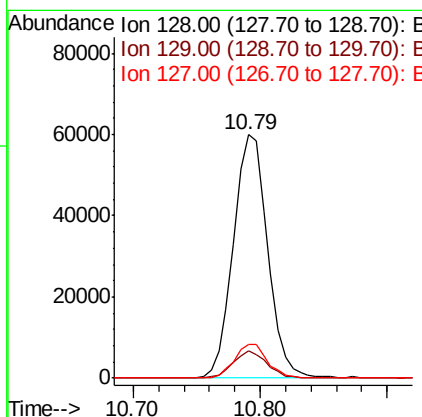
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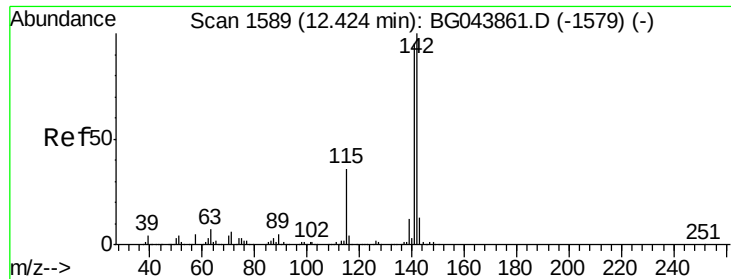
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#31
Naphthalene
Concen: 4.797 ng
RT: 10.79 min Scan# 1311
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.8	14.6
127	13.8	12.0	18.0





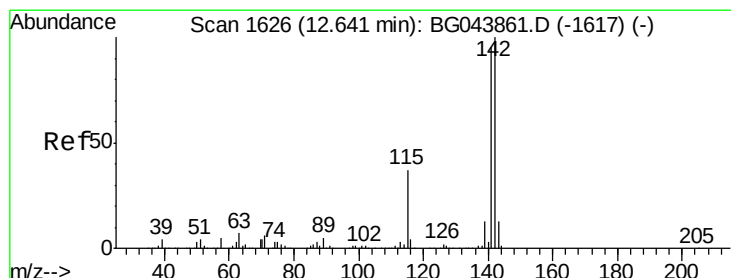
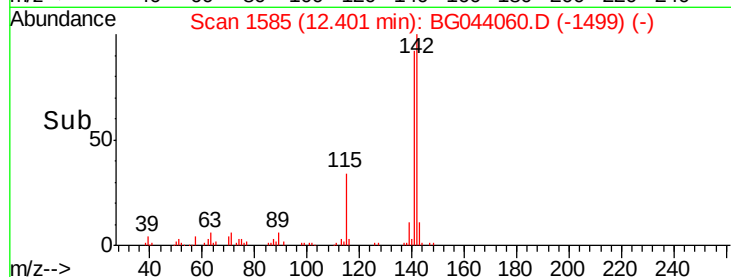
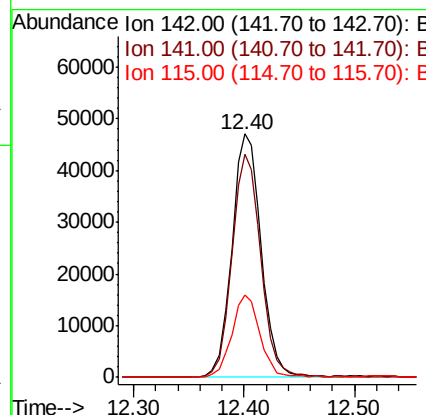
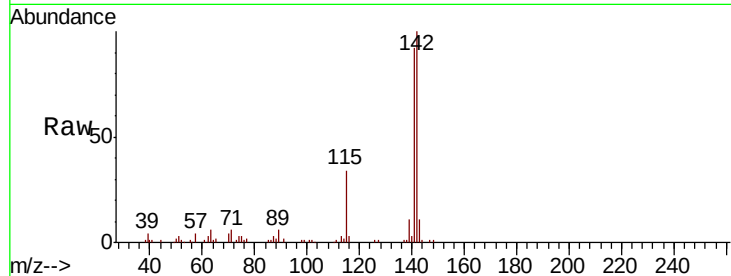
#37
2-Methylnaphthalene
Concen: 4.965 ng
RT: 12.40 min Scan# 1585
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.8	75.8	113.8
115	33.9	28.6	42.8

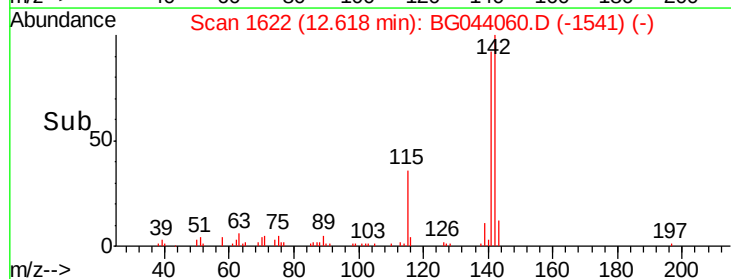
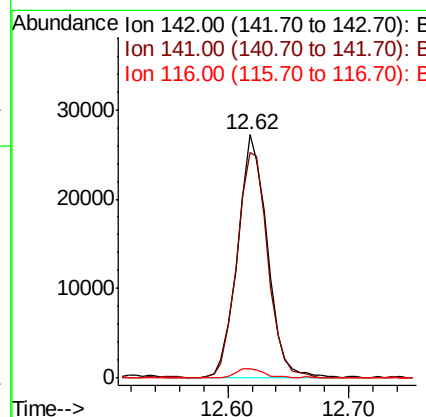
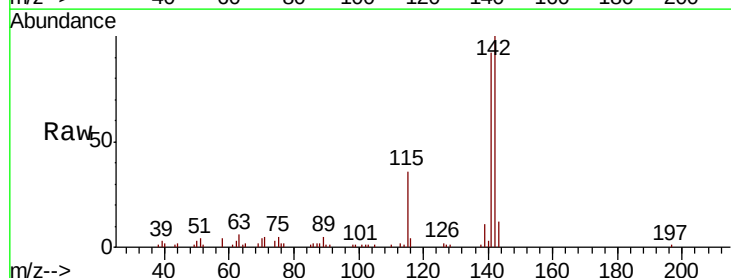
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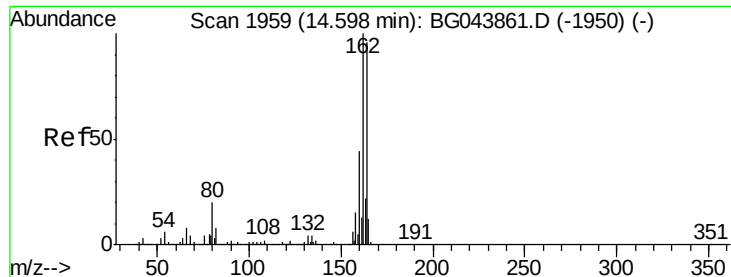
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#38
1-Methylnaphthalene
Concen: 2.808 ng
RT: 12.62 min Scan# 1622
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.5	76.0	114.0
116	3.7	3.1	4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.57 min Scan# 1955

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Instrument :

BNA_G

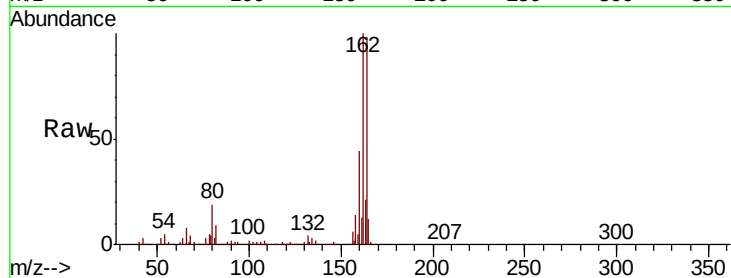
ClientSampleId :

BU-RO-234DL

Tot Ion:	164	Resp:	310383
Ion Ratio	Lower	Upper	
164	100		
162	102.2	83.0	124.4
160	44.8	36.1	54.1

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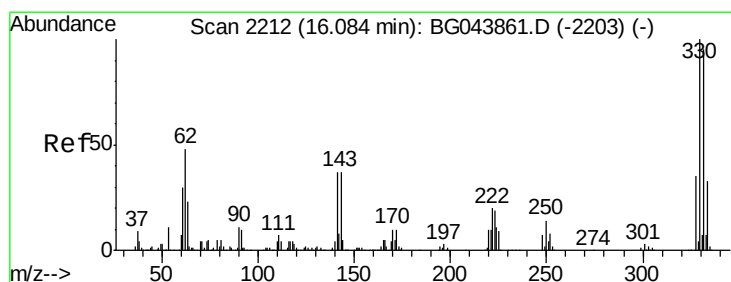
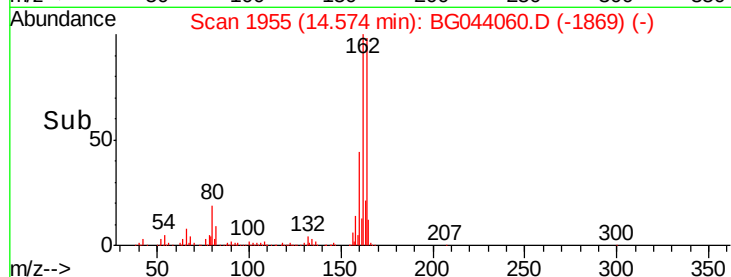
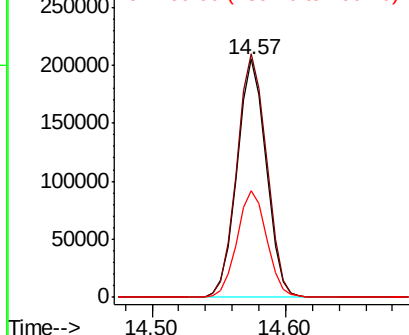


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 10.679 ng

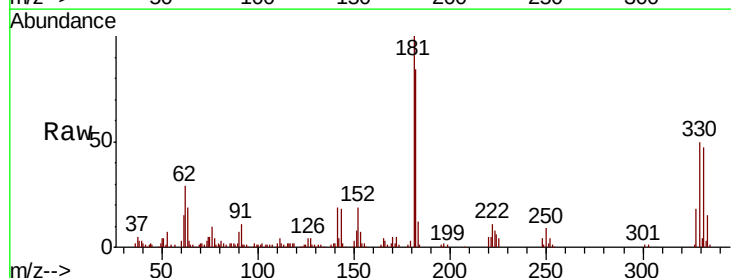
RT: 16.06 min Scan# 2208

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Tgt Ion:	330	Resp:	34688
Ion Ratio	Lower	Upper	
330	100		
332	95.9	77.2	115.8
141	39.9	33.1	49.7

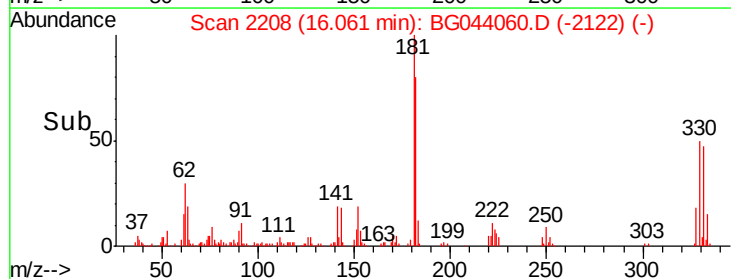
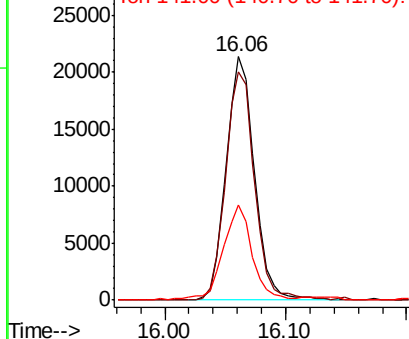


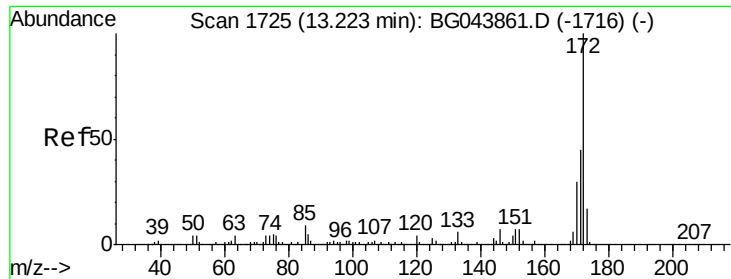
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





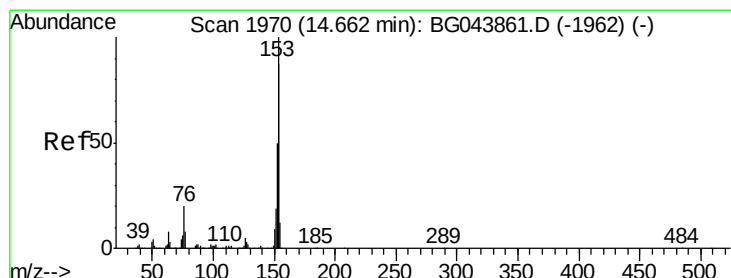
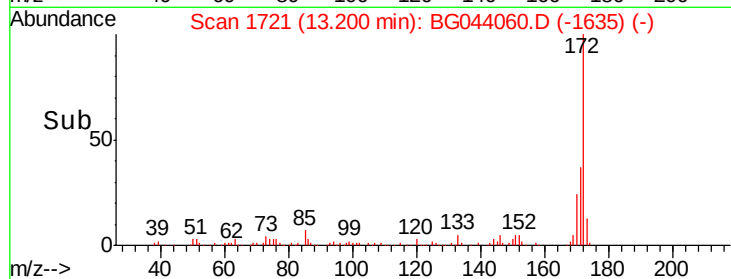
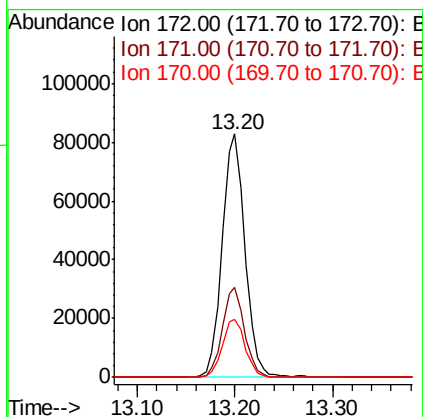
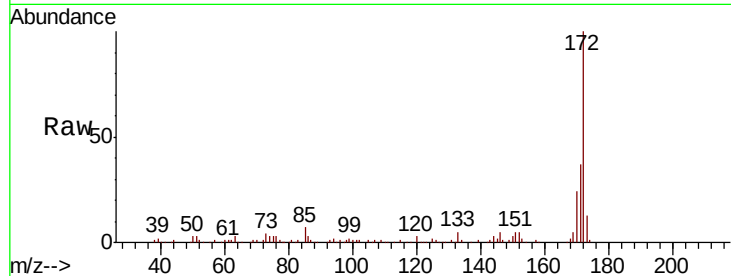
#45
2-Fluorobiphenyl
Concen: 7.815 ng
RT: 13.20 min Scan# 1721
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampled :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.1	35.8	53.8
170	23.7	24.2	36.4

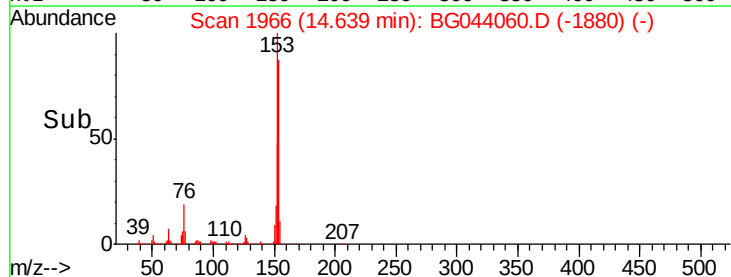
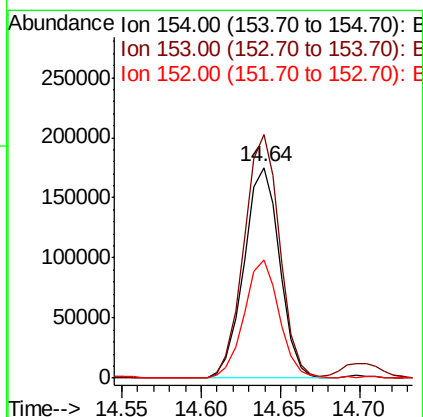
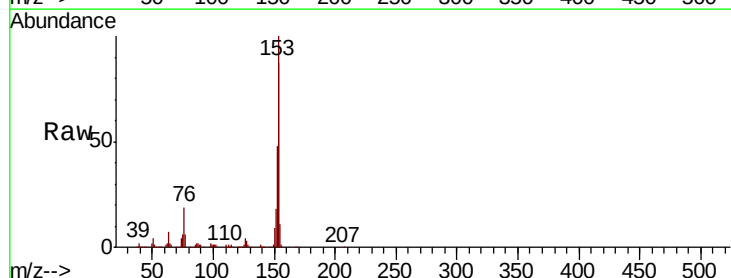
Manual Integrations
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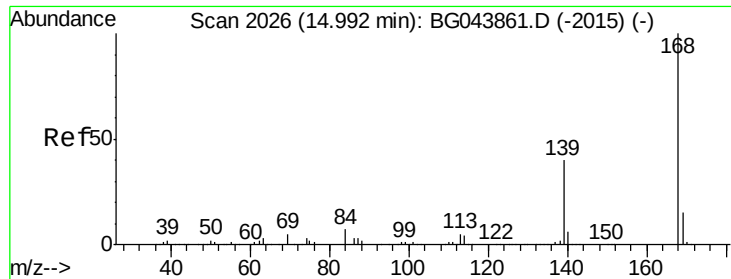
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#52
Acenaphthene
Concen: 15.054 ng
RT: 14.64 min Scan# 1966
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.6	91.6	137.4
152	56.0	45.4	68.0





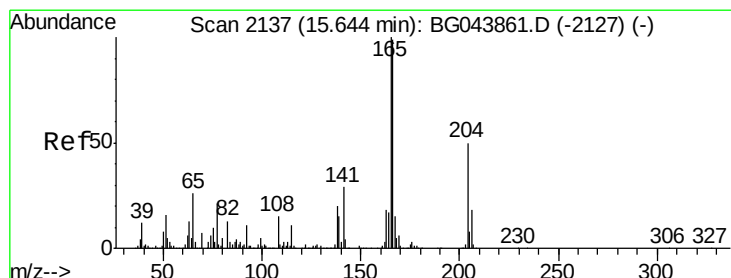
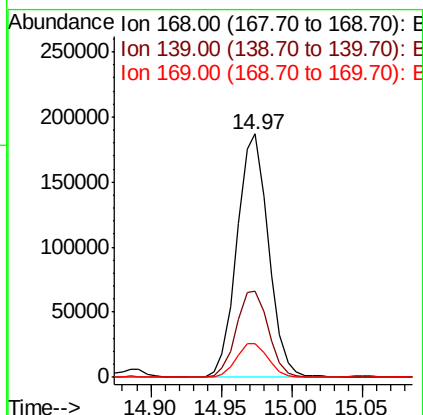
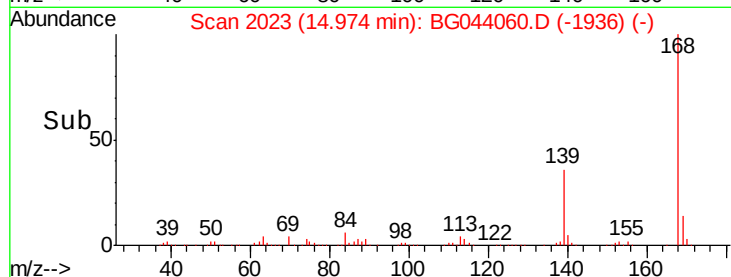
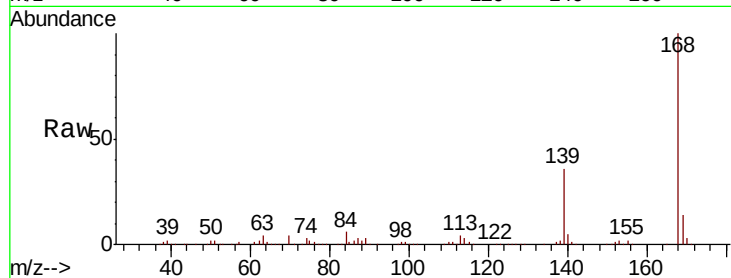
#55
Dibenzenofuran
Concen: 11.678 ng
RT: 14.97 min Scan# 2023
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.5	32.2	48.2
169	13.9	12.2	18.2

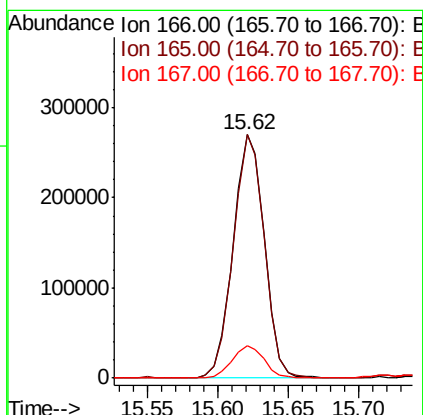
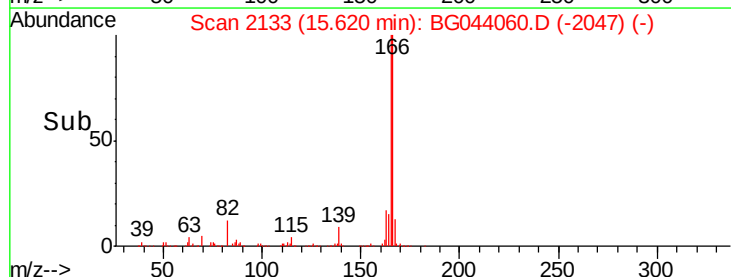
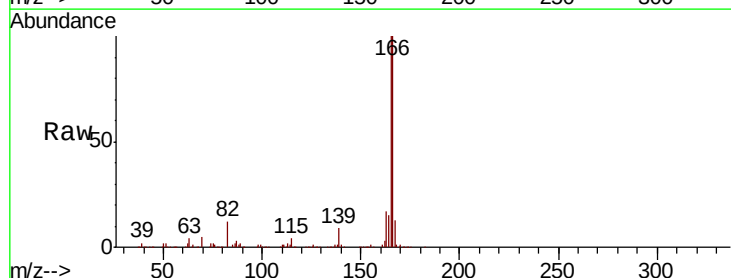
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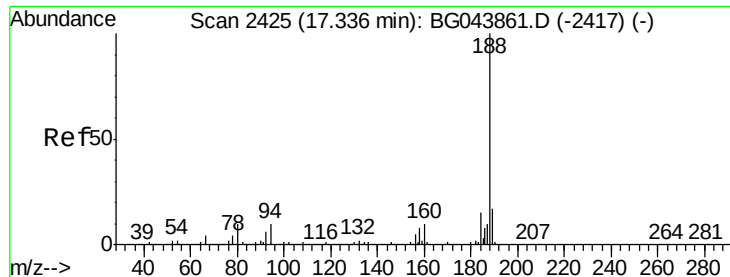
mohammad
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#58
Fluorene
Concen: 21.034 ng
RT: 15.62 min Scan# 2133
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.9	80.8	121.2
167	13.2	12.1	18.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.32 min Scan# 2422

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Instrument :

BNA_G

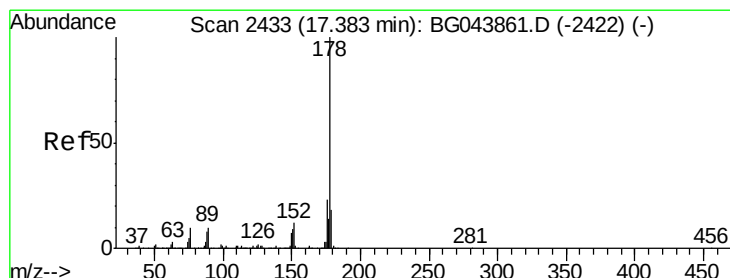
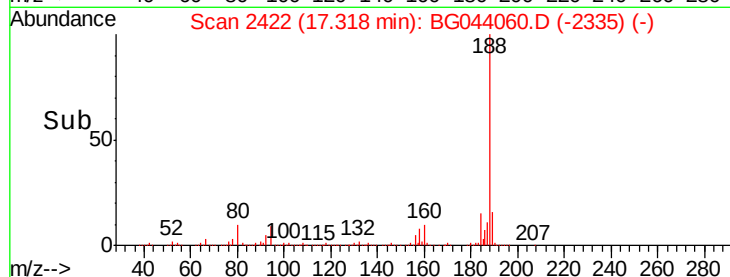
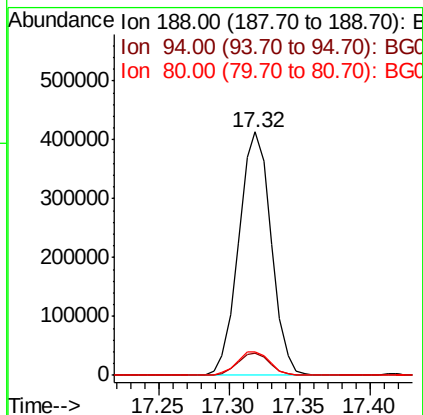
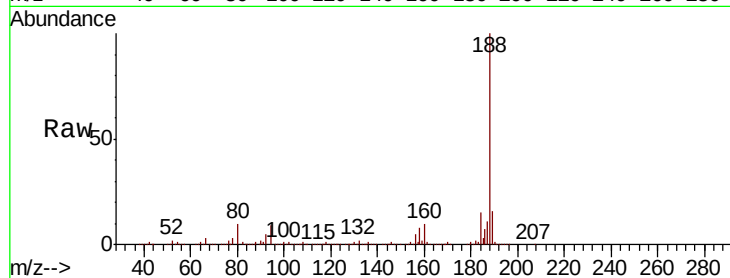
ClientSampleId :

BU-RO-234DL

Tot Ion:	188	Resp:	664417
Ion Ratio	Lower	Upper	
188	100		
94	9.1	7.9	11.9
80	9.6	8.2	12.4

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#71

Phenanthrene

Concen: 63.401 ng

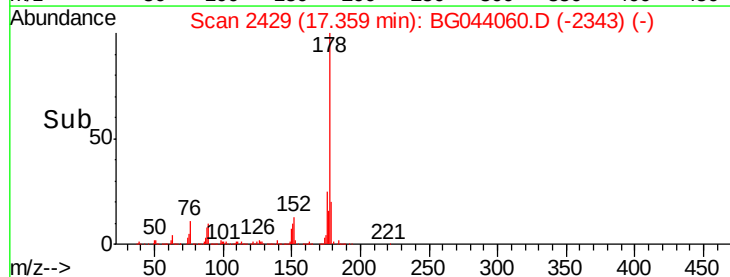
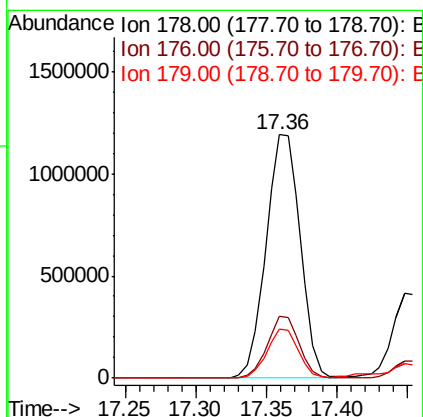
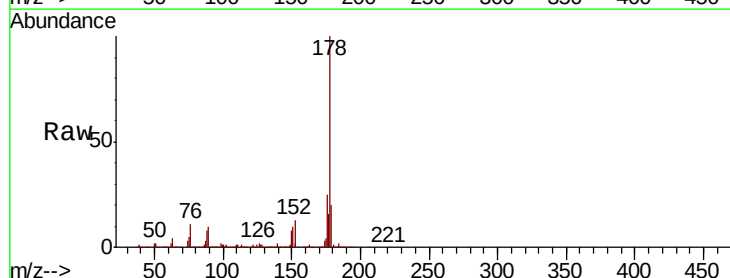
RT: 17.36 min Scan# 2429

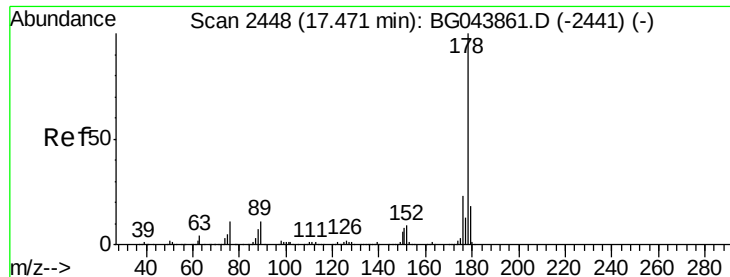
Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Tgt Ion:	178	Resp:	2020501
Ion Ratio	Lower	Upper	
178	100		
176	25.3	18.6	28.0
179	20.2	14.4	21.6





#72

Anthracene

Concen: 19.707 ng

RT: 17.45 min Scan# 2444

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Instrument :

BNA_G

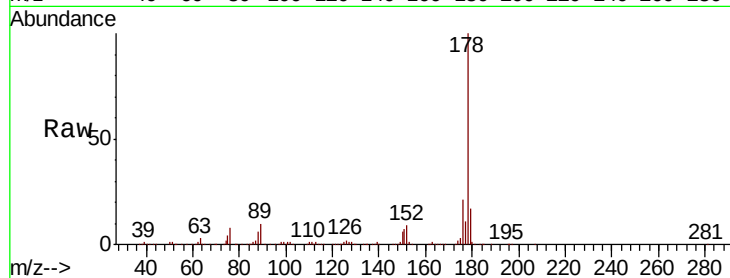
ClientSampleId :

BU-RO-234DL

Tot Ion:	178	Resp:	620681
Ion Ratio	Lower	Upper	
178	100		
176	20.5	18.3	27.5
179	16.5	14.6	22.0

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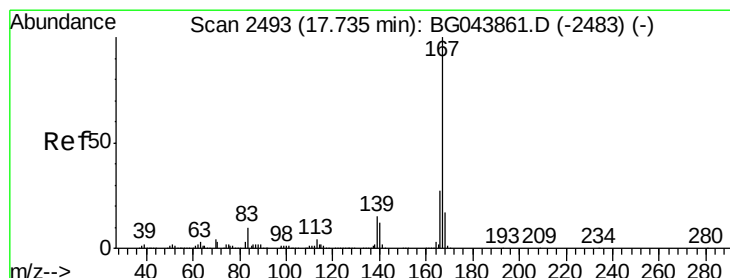
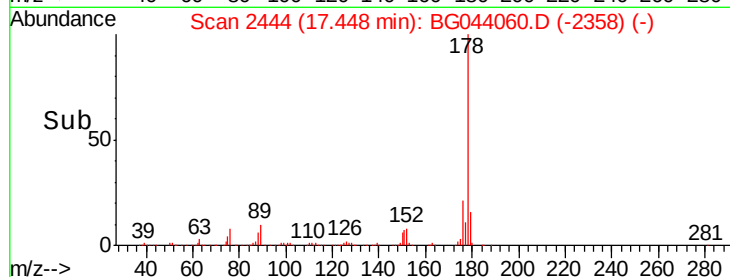
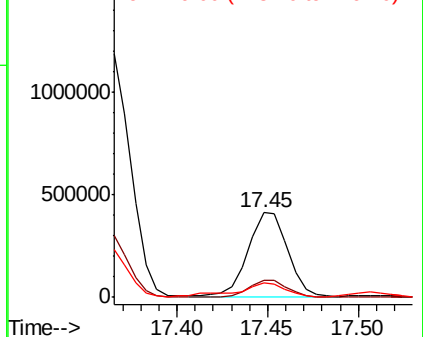


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 8.999 ng

RT: 17.72 min Scan# 2490

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

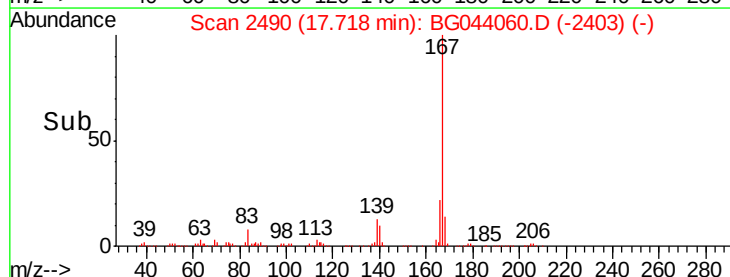
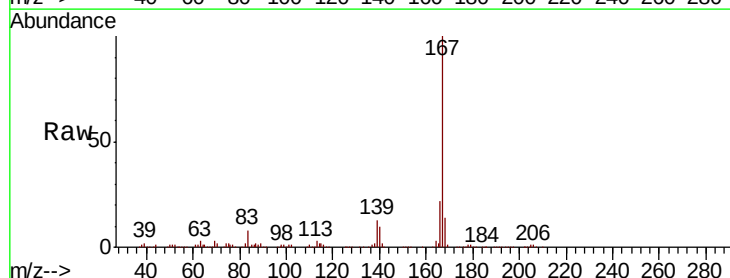
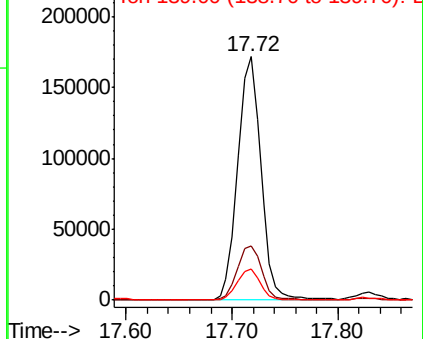
Tgt Ion:	167	Resp:	261812
Ion Ratio	Lower	Upper	
167	100		
166	22.5	21.6	32.4
139	12.9	12.1	18.1

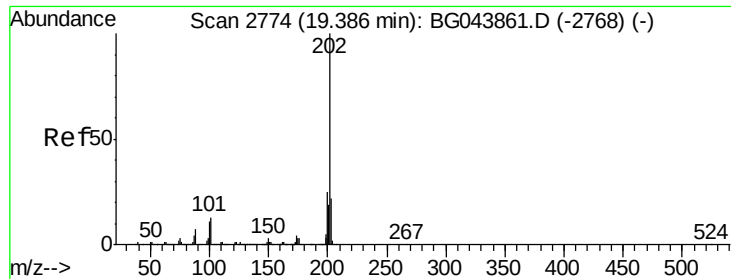
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 53.508 ng

RT: 19.37 min Scan# 2771

Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Instrument :

BNA_G

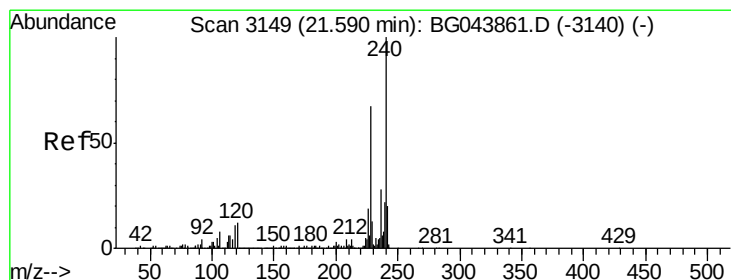
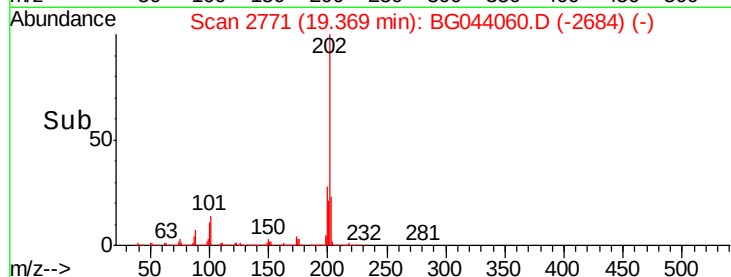
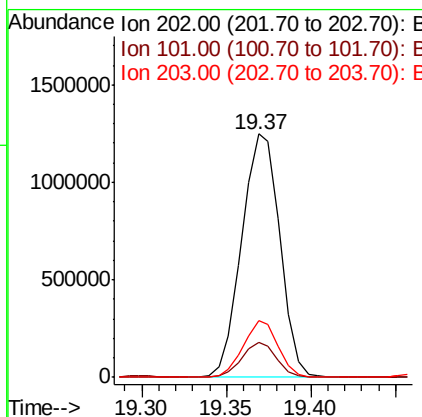
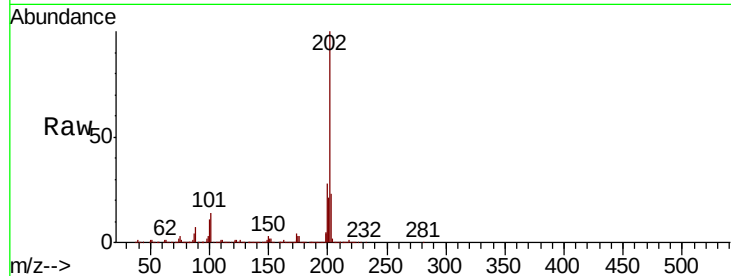
ClientSampleId :

BU-RO-234DL

Tot Ion:	202	Resp:	1950195
Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	33.3
203	23.4	1.6	41.6

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#76

Chrysene-d12

Concen: 20.000 ng

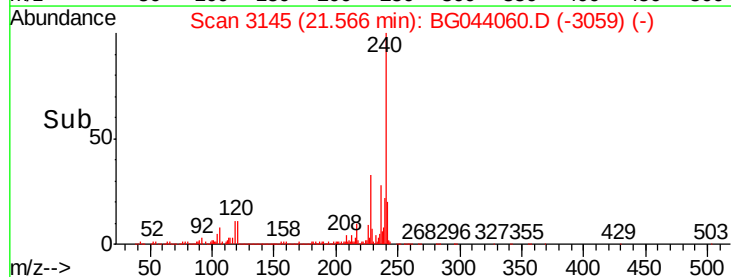
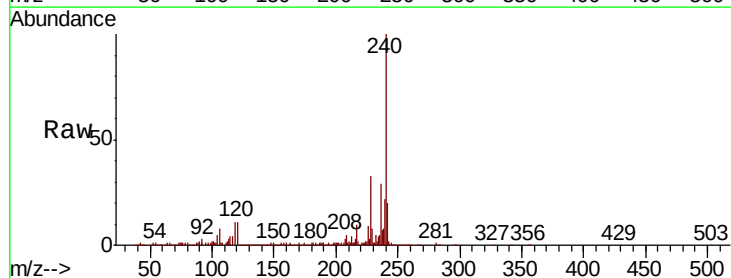
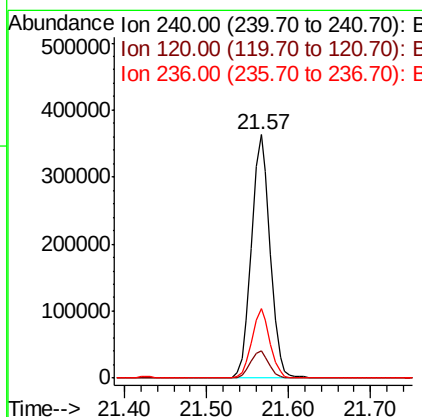
RT: 21.57 min Scan# 3145

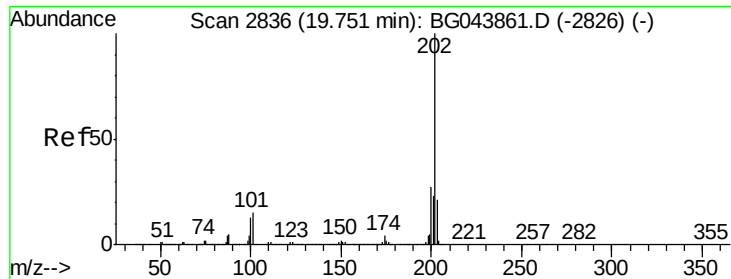
Delta R.T. -0.02 min

Lab File: BG044060.D

Acq: 15 Jan 2020 21:47

Tgt Ion:	240	Resp:	576059
Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.6	14.4
236	28.6	22.2	33.2





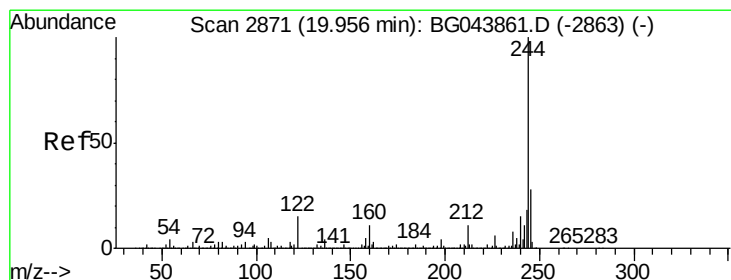
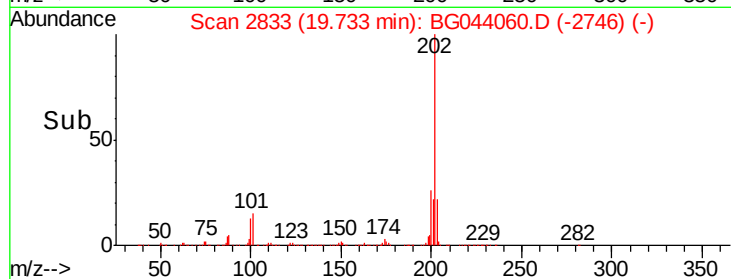
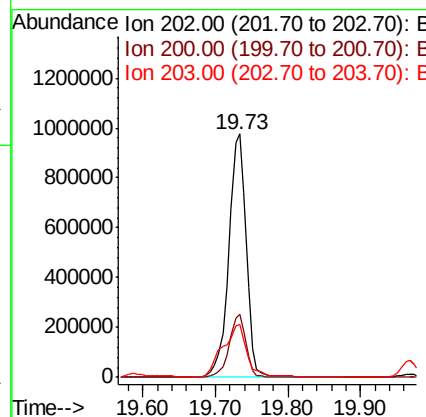
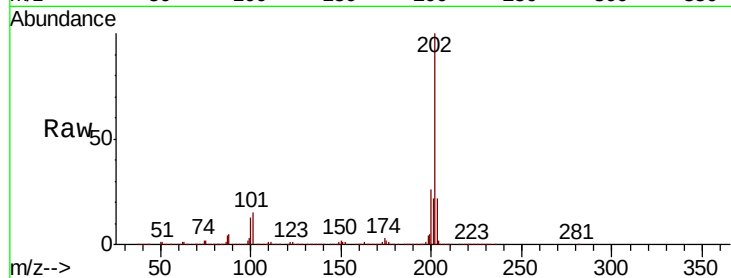
#78
Pvrene
Concen: 43.144 ng
RT: 19.73 min Scan# 2833
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	25.8	21.7	32.5
203	21.6	17.0	25.6

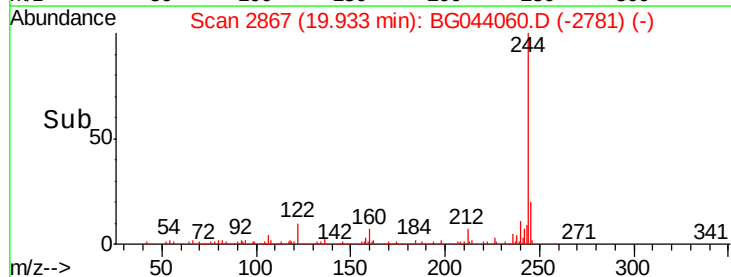
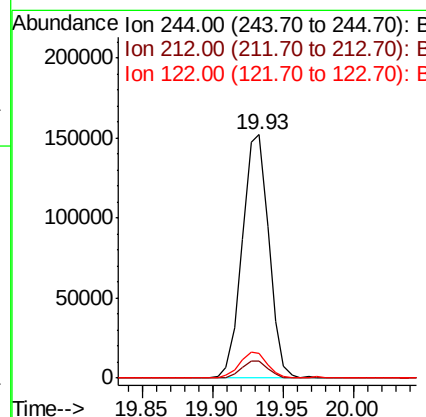
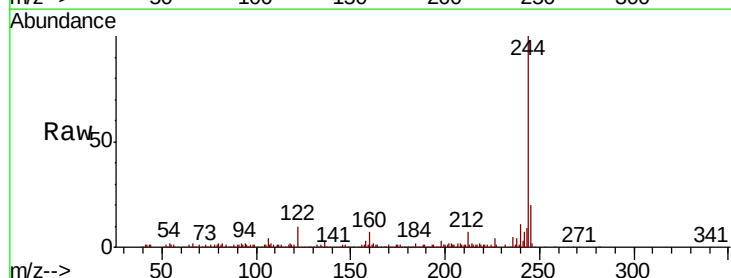
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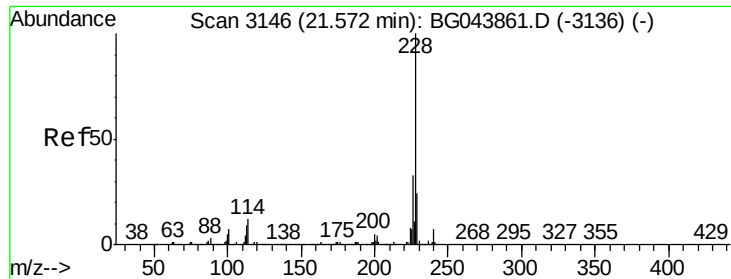
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#79
Terphenyl-d14
Concen: -1.000 ng
RT: 19.93 min Scan# 2867
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	8.6	13.0#
122	9.9	11.9	17.9#





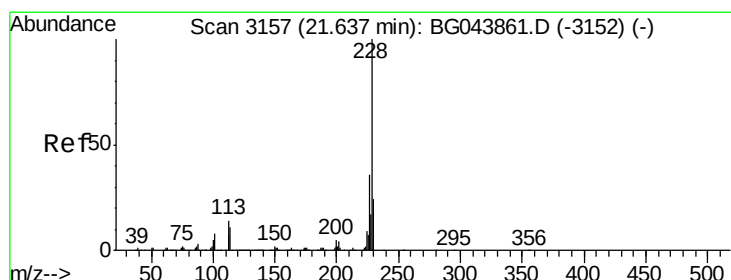
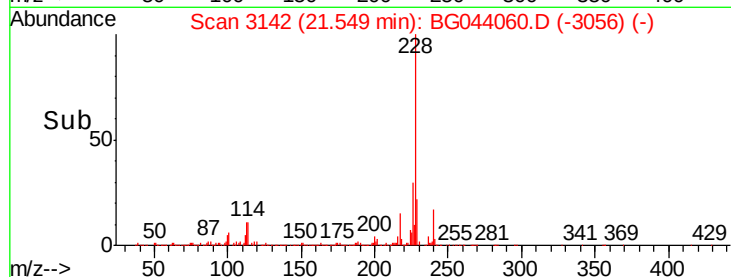
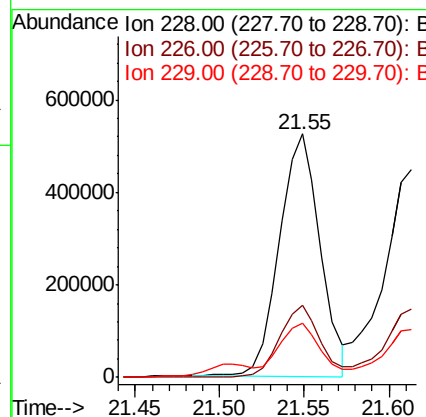
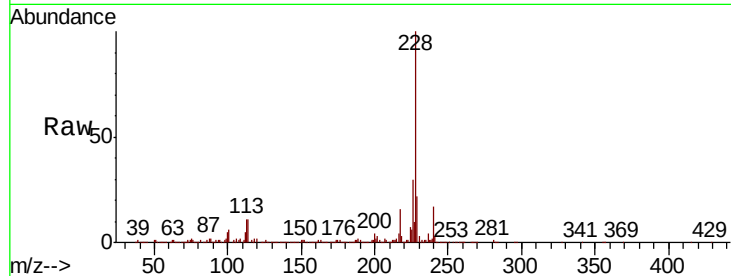
#81
Benzo(a)anthracene
Concen: 24.531 ng
RT: 21.55 min Scan# 3142
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.7	26.2	39.4
229	22.2	18.9	28.3

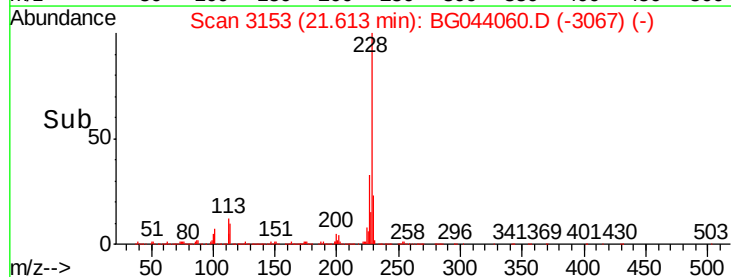
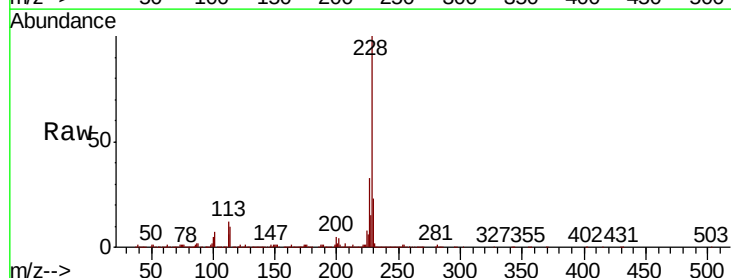
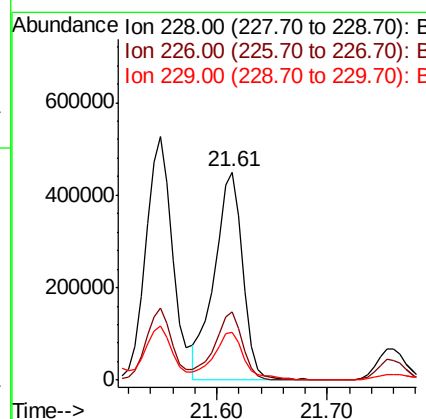
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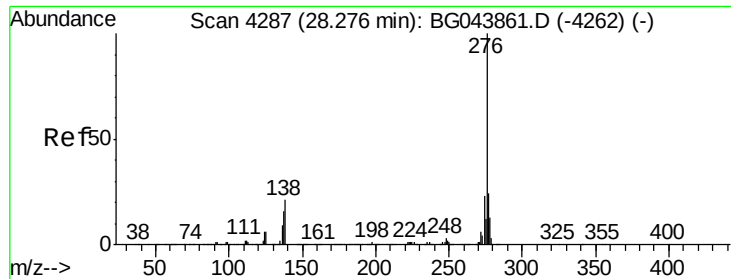
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#83
Chrysene
Concen: 23.309 ng
RT: 21.61 min Scan# 3153
Delta R.T. -0.02 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.7	28.8	43.2
229	23.2	19.0	28.6





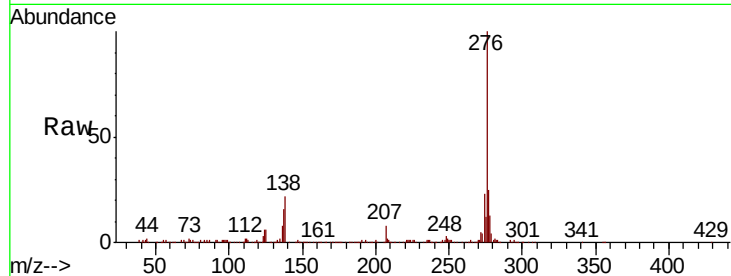
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 9.927 ng
 RT: 28.20 min Scan# 4274
 Delta R.T. -0.08 min
 Lab File: BG044060.D
 Acq: 15 Jan 2020 21:47

Instrument :
 BNA_G
 ClientSampleId :
 BU-RO-234DL

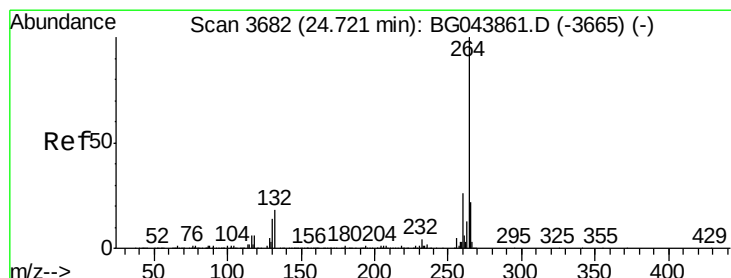
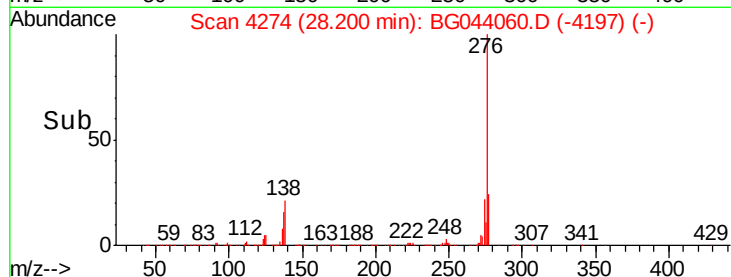
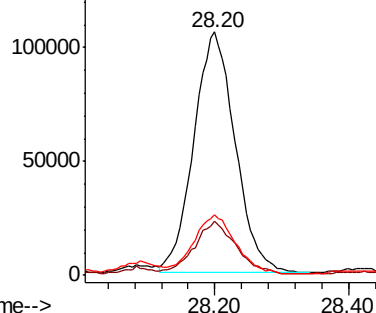
Tot Ion:	276	Resp:	457878
Ion Ratio	Lower	Upper	
276	100		
138	21.6	21.0	31.4
277	25.1	21.1	31.7

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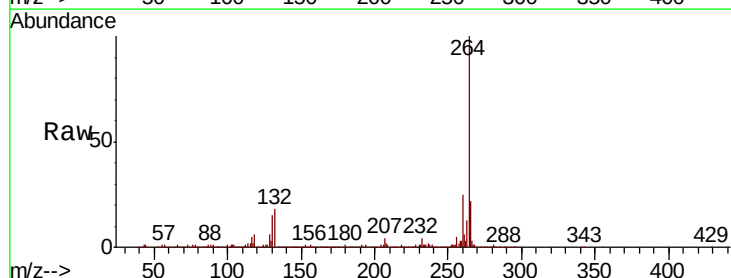


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

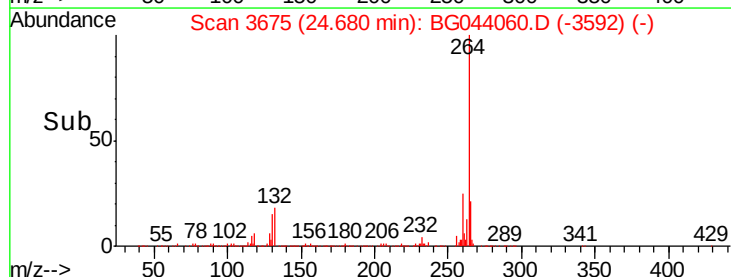
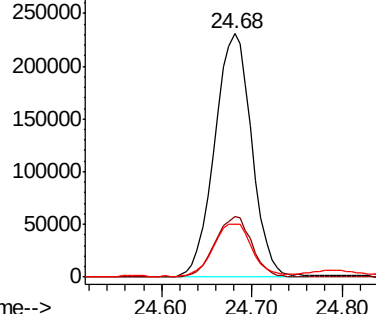


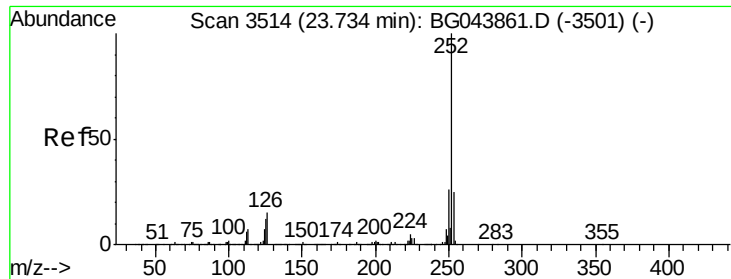
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.68 min Scan# 3675
 Delta R.T. -0.04 min
 Lab File: BG044060.D
 Acq: 15 Jan 2020 21:47

Tgt Ion:	264	Resp:	652725
Ion Ratio	Lower	Upper	
264	100		
260	24.8	20.4	30.6
265	21.6	17.4	26.2



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





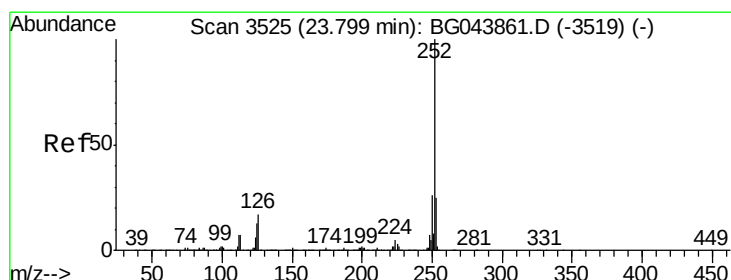
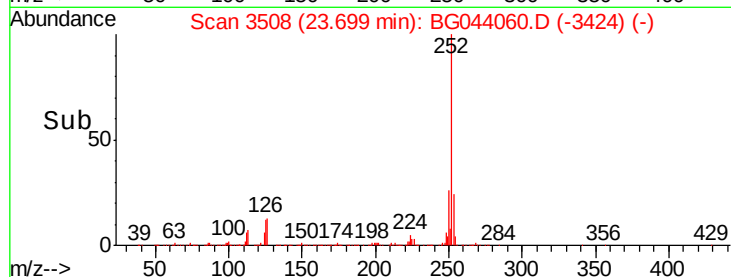
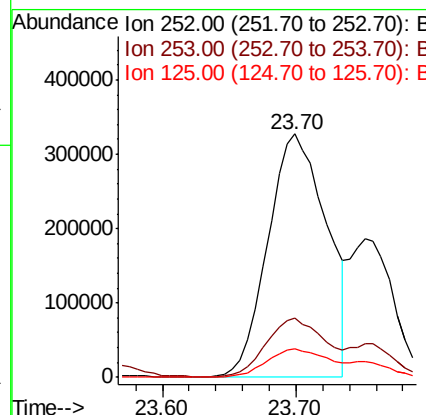
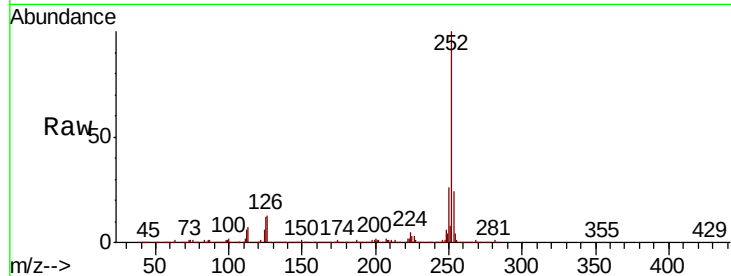
#88
Benzo(b)fluoranthene
Concen: 25.854 ng
RT: 23.70 min Scan# 3508
Delta R.T. -0.04 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.7	29.5
125	11.9	9.4	14.2

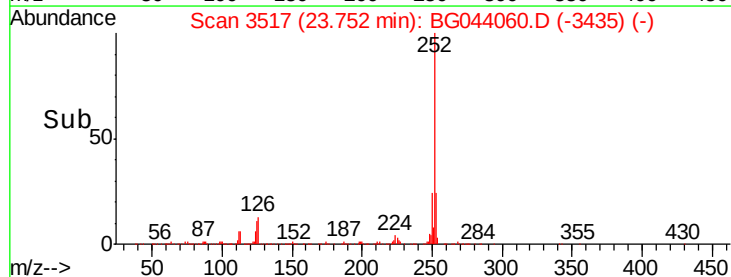
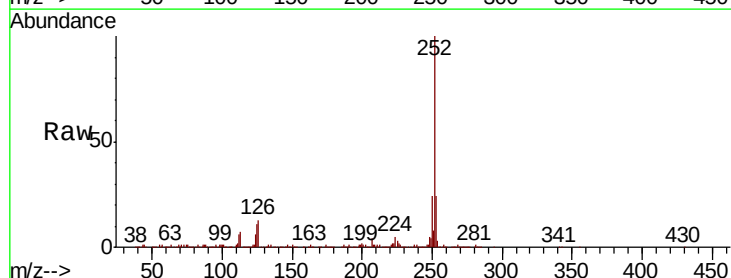
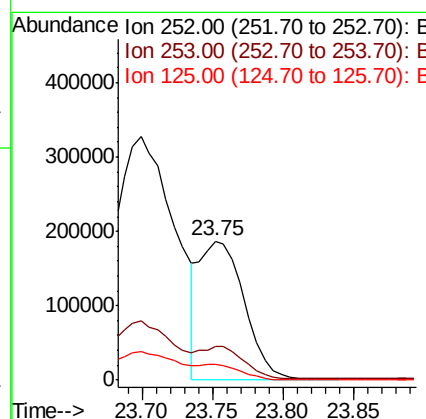
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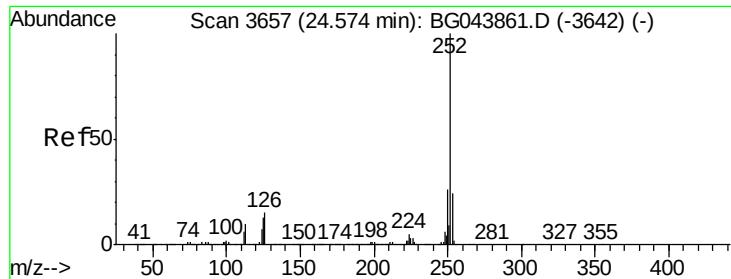
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#89
Benzo(k)fluoranthene
Concen: 11.371 ng m
RT: 23.75 min Scan# 3517
Delta R.T. -0.05 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.4	29.2
125	10.9	9.9	14.9





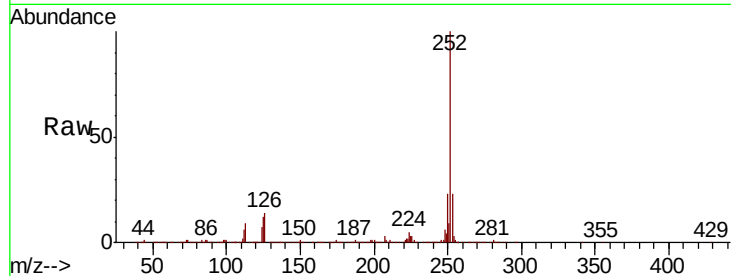
#90
Benzo(a)pyrene
Concen: 19.929 ng
RT: 24.53 min Scan# 3650
Delta R.T. -0.04 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

Instrument :
BNA_G
ClientSampleId :
BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.3	28.9
125	11.6	10.4	15.6

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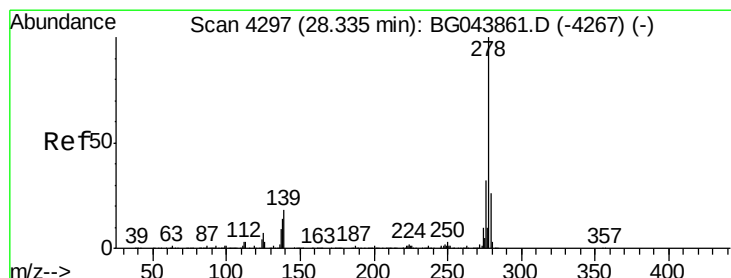
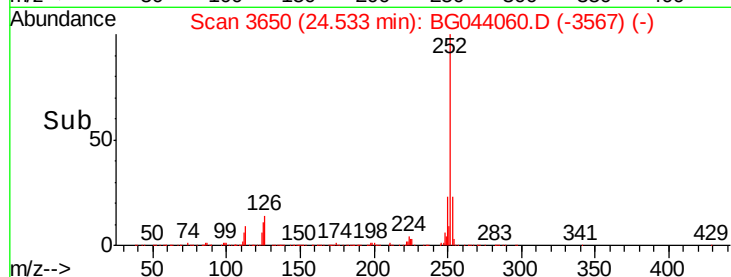
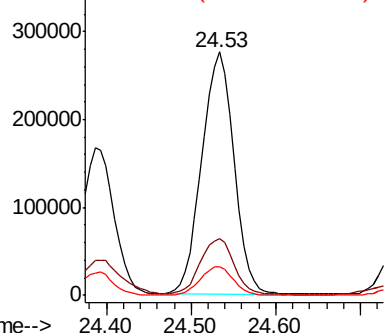


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 3.317 ng
RT: 28.24 min Scan# 4281
Delta R.T. -0.09 min
Lab File: BG044060.D
Acq: 15 Jan 2020 21:47

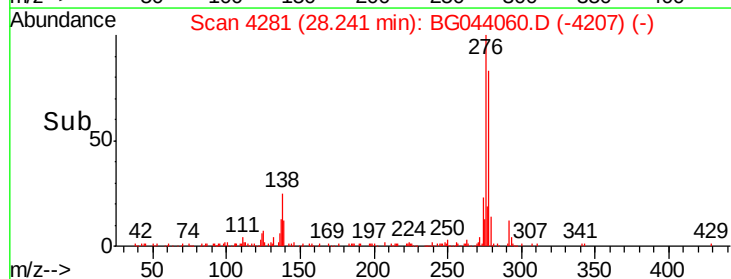
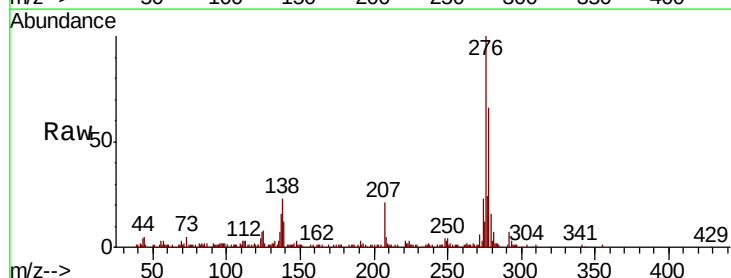
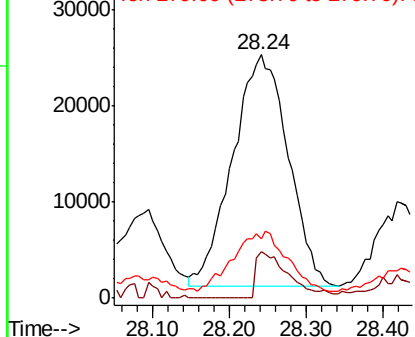
Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.9	14.2	21.4
279	24.5	20.6	30.8

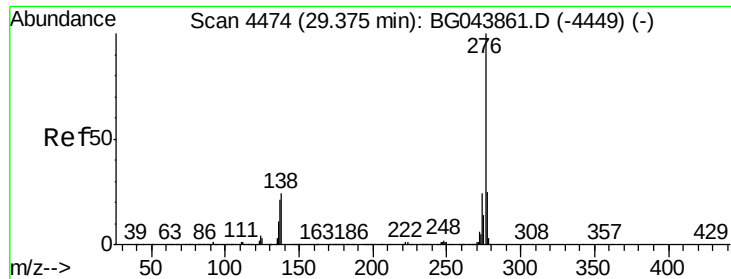
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 11.065 ng
 RT: 29.29 min Scan# 4460
 Delta R.T. -0.08 min
 Lab File: BG044060.D
 Acq: 15 Jan 2020 21:47

Instrument :
 BNA_G
 ClientSampleId :
 BU-RO-234DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.4	20.2	30.4
138	21.4	19.0	28.6

Manual Integrations
 APPROVED

mohammad
 1/16/2020 2:25:56 PM

