

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011320\
 Data File : BG044031.D
 Acq On : 14 Jan 2020 3:33
 Operator : JU
 Sample : L1106-08
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CIY1-BC-SB-104-0-5

Manual Integrations
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Quant Time: Jan 14 10:50:06 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	7.95	152	136533	20.00	ng	-0.02
21) Naphthalene-d8	10.74	136	543413	20.00	ng	-0.02
39) Acenaphthene-d10	14.57	164	339552	20.00	ng	-0.02
64) Phenanthrene-d10	17.32	188	708650	20.00	ng	-0.02
76) Chrysene-d12	21.57	240	612692	20.00	ng	-0.02
87) Perylene-d12	24.71	264	707516	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.53	112	727418	97.82	ng	-0.01
7) Phenol-d6	7.11	99	1004891	96.68	ng	-0.01
23) Nitrobenzene-d5	9.10	82	585009	57.59	ng	-0.02
42) 2,4,6-Tribromophenol	16.07	330	342993	96.53	ng	-0.02
45) 2-Fluorobiphenyl	13.20	172	1010859	53.94	ng	-0.02
79) Terphenyl-d14	19.93	244	1330866	44.88	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.80	128	56430	2.146	ng	95
50) Dimethylphthalate	14.03	163	107810	4.472	ng	97
52) Acenaphthene	14.64	154	45967	2.318	ng	98
58) Fluorene	15.63	166	54690	2.528	ng	98
71) Phenanthrene	17.36	178	481538	14.167	ng	95
72) Anthracene	17.45	178	148245	4.413	ng	92
75) Fluoranthene	19.37	202	769442	19.794	ng	95
78) Pyrene	19.73	202	724503	18.116	ng	94
80) Butylbenzylphthalate	20.63	149	60987	3.203	ng	92
81) Benzo(a)anthracene	21.55	228	389725	10.258	ng	93
83) Chrysene	21.61	228	336438	9.320	ng	93
86) Indeno(1,2,3-cd)pyrene	28.28	276	224531	4.577	ng	95
88) Benzo(b)fluoranthene	23.71	252	453598	10.845	ng	97
89) Benzo(k)fluoranthene	23.76	252	153553m	3.861	ng	
90) Benzo(a)pyrene	24.55	252	340308	8.620	ng	97
92) Benzo(g,h,i)perylene	29.41	276	216080	5.487	ng	97

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

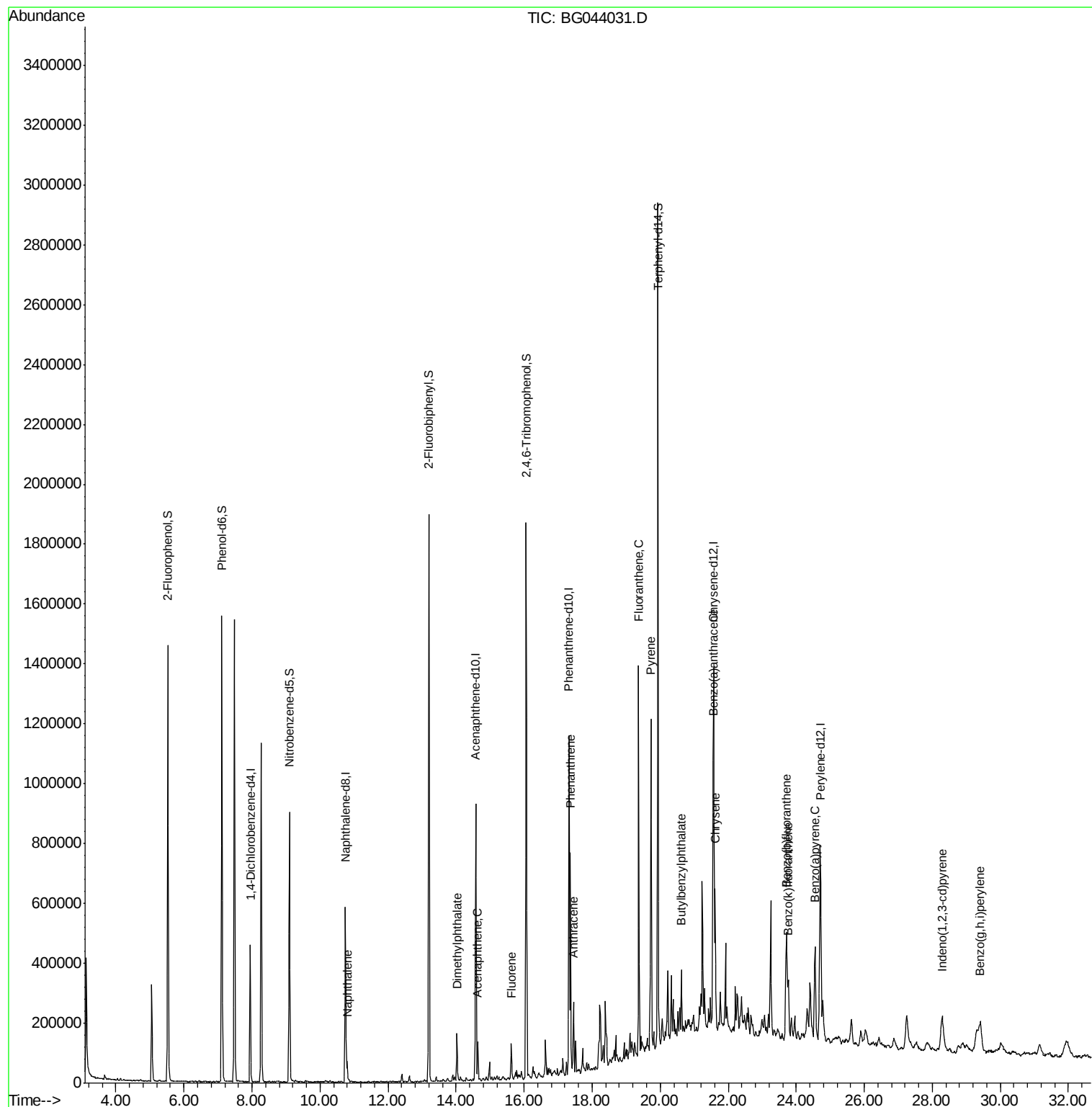
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011320\
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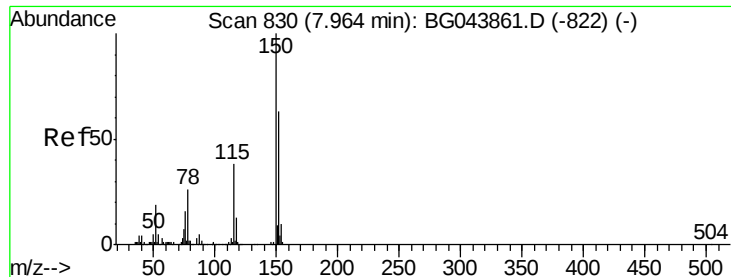
Instrument :
BNA_G
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CIY1-BC-SB-104-0-5

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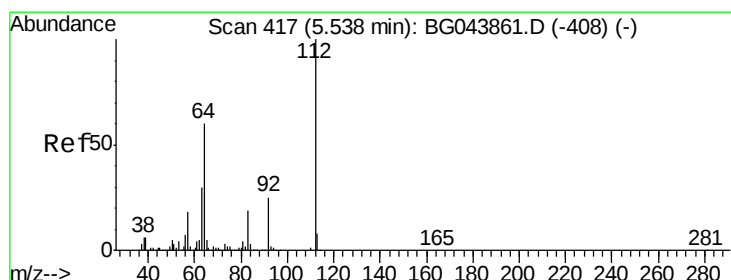
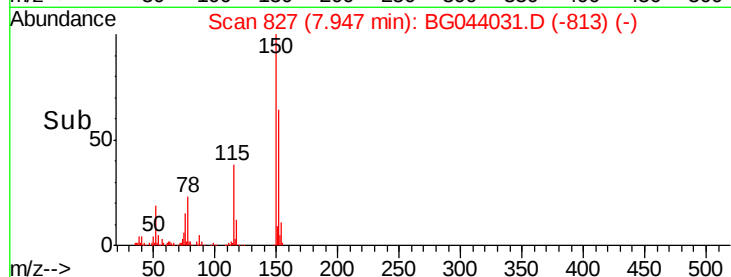
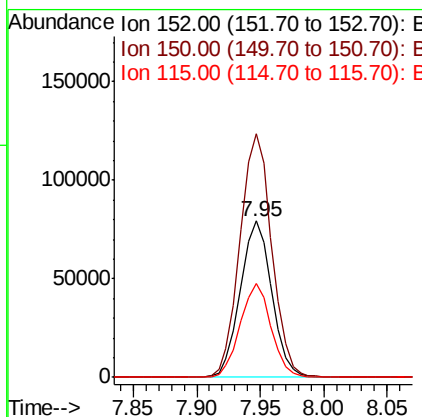
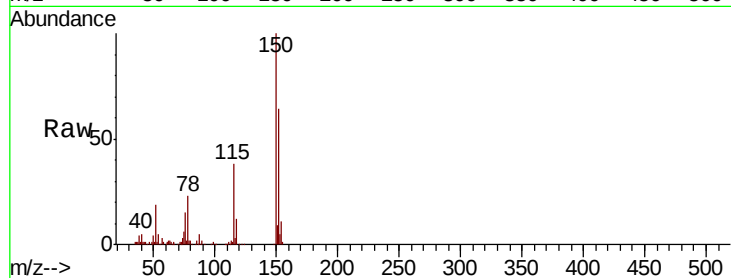
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.95 min Scan# 827
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	127.0	190.4
115	59.7	47.8	71.8

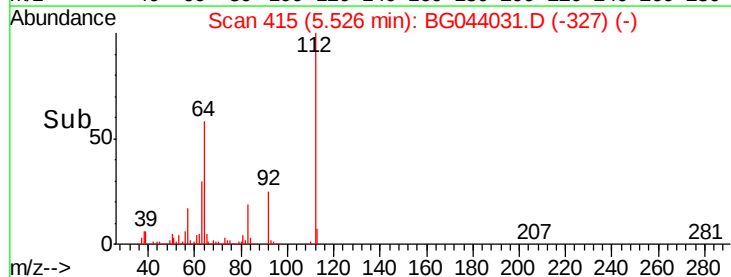
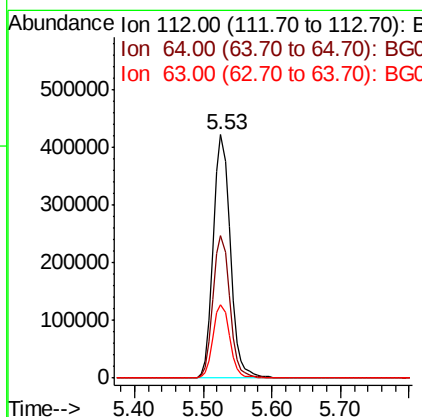
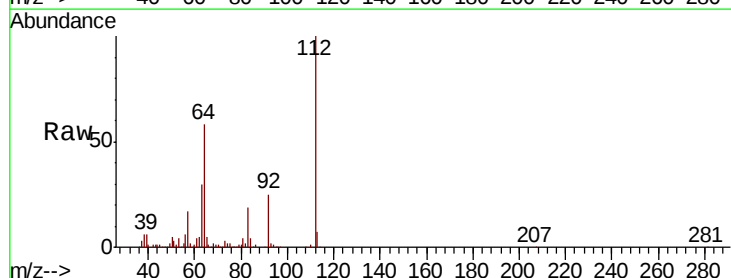
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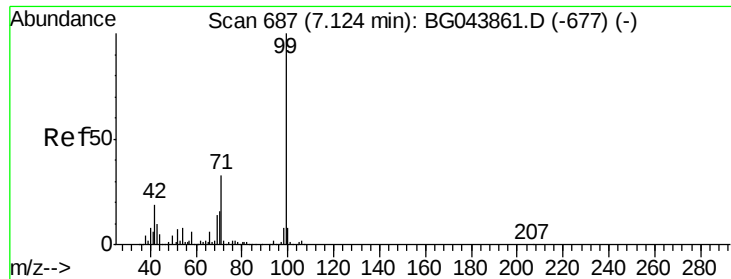
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#5
2-Fluorophenol
Concen: 97.824 ng
RT: 5.53 min Scan# 415
Delta R.T. -0.01 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.8	71.6
63	30.3	24.3	36.5





#7

Phenol-d6

Concen: 96.679 ng

RT: 7.11 min Scan# 685

Delta R.T. -0.01 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Instrument :

BNA_G

ClientSampleId :

CIY1-BC-SB-104-0-5

Tot Ion: 99 Resp: 1004891

Ion Ratio Lower Upper

99 100

42 18.1 14.9 22.3

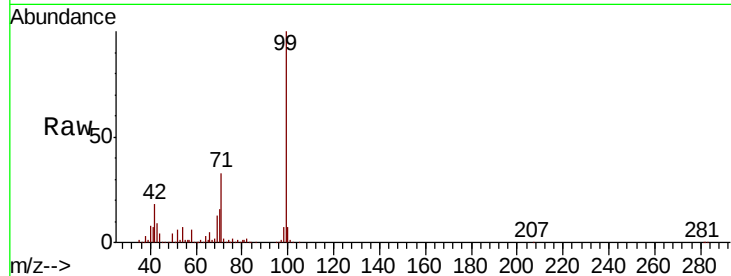
71 32.6 26.4 39.6

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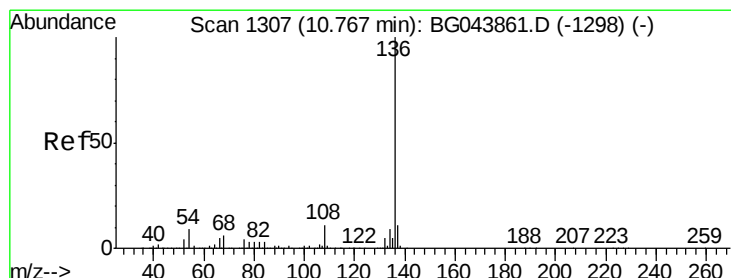
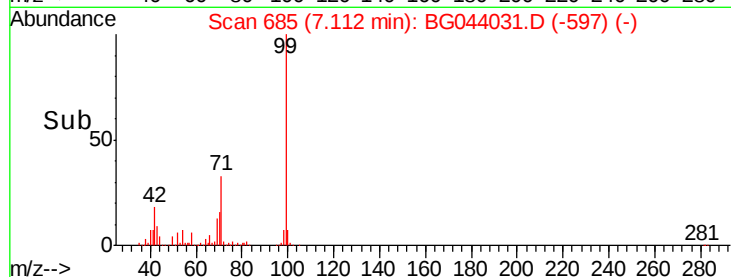
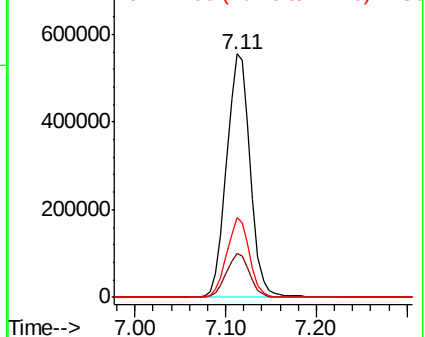
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Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.74 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Tgt Ion: 136 Resp: 543413

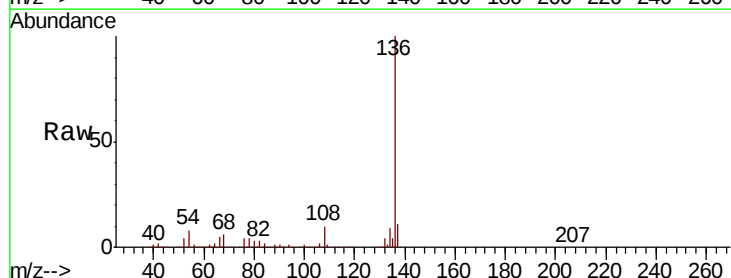
Ion Ratio Lower Upper

136 100

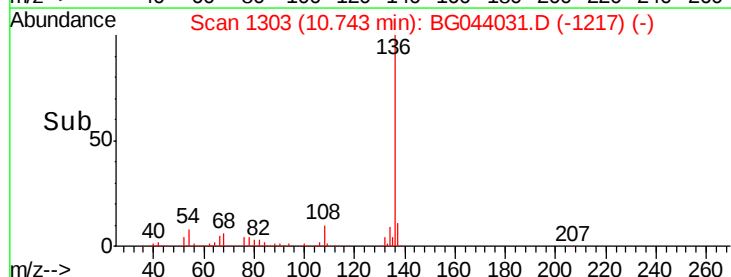
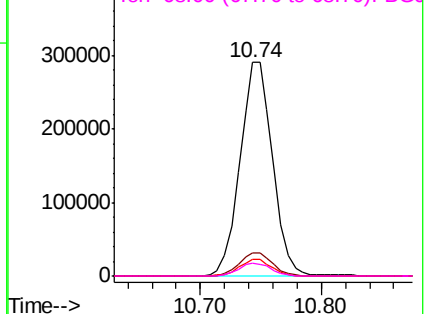
137 10.9 8.8 13.2

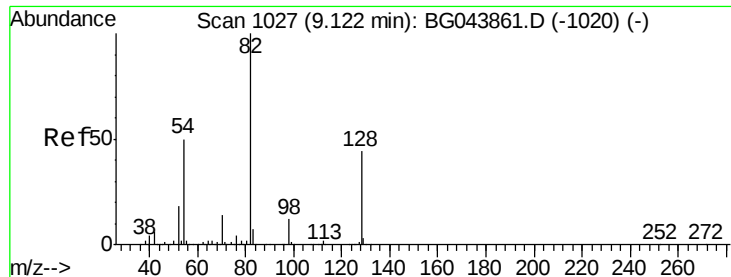
54 7.8 7.0 10.4

68 6.0 4.9 7.3



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC





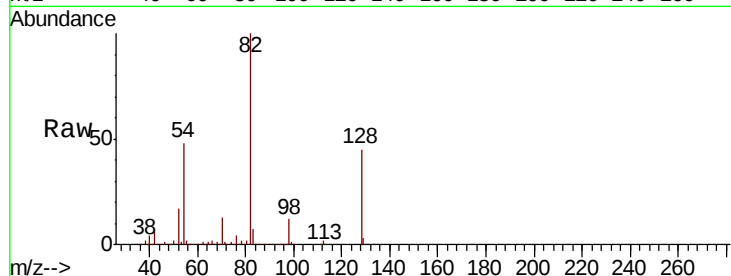
#23
Nitrobenzene-d5
Concen: 57.591 ng
RT: 9.10 min Scan# 1023
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	35.1	52.7
54	48.2	40.1	60.1

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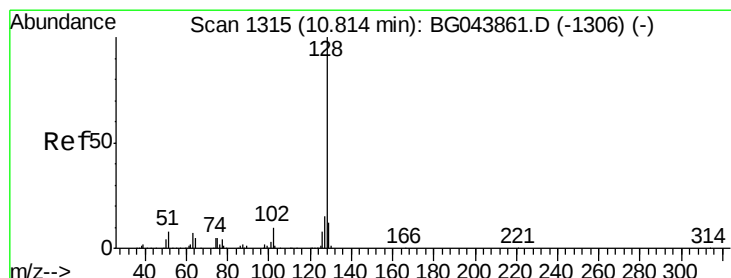
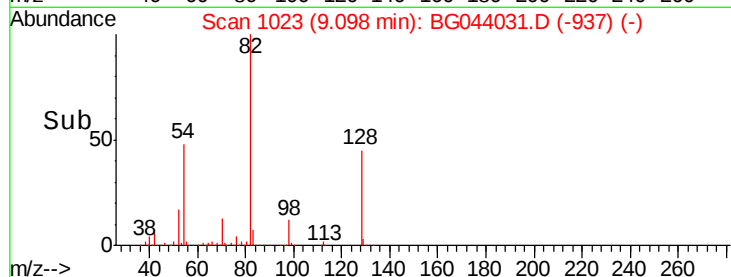
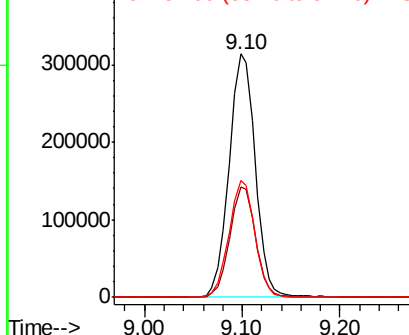


Abundance

Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#31
Naphthalene
Concen: 2.146 ng
RT: 10.80 min Scan# 1312
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

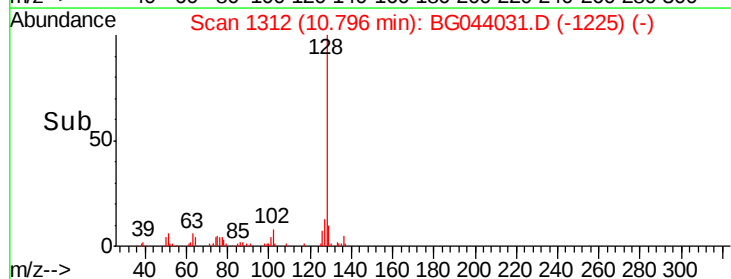
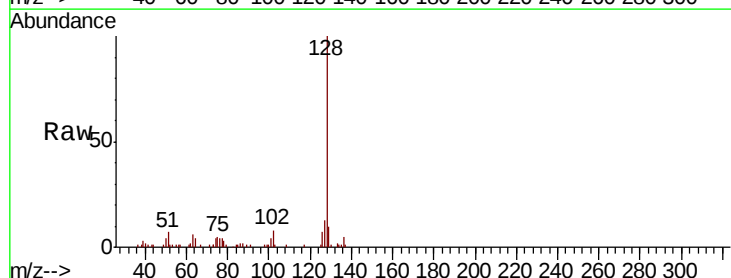
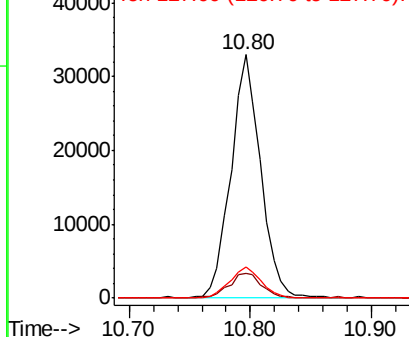
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.1	9.8	14.6
127	12.7	12.0	18.0

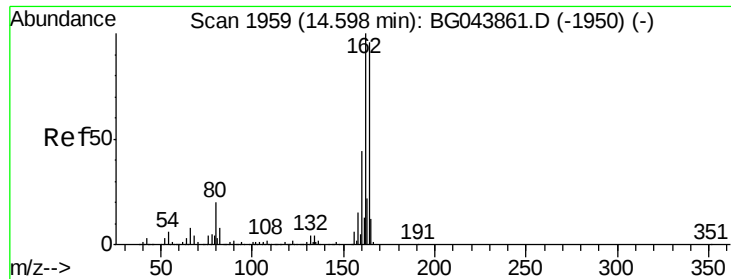
Abundance

Ion 128.00 (127.70 to 128.70): BGC

Ion 129.00 (128.70 to 129.70): BGC

Ion 127.00 (126.70 to 127.70): BGC





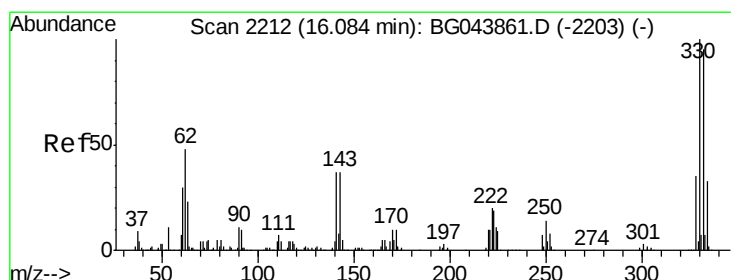
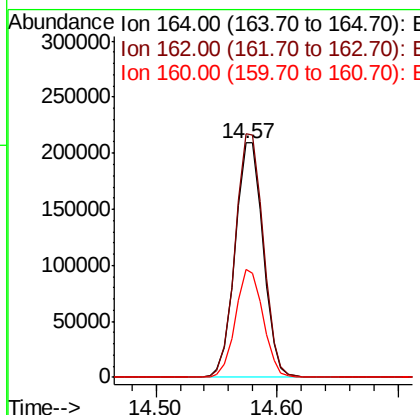
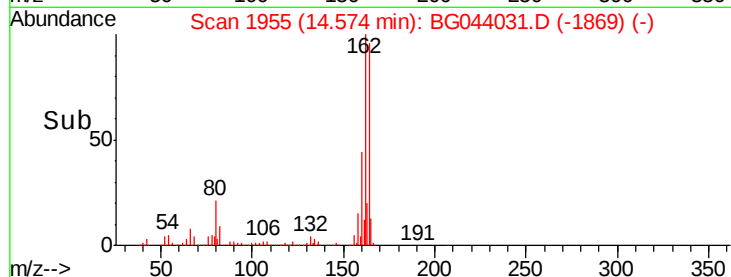
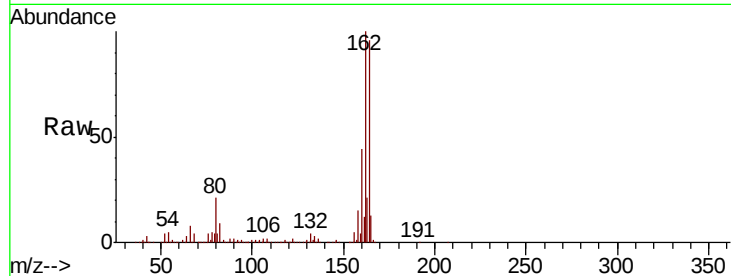
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.57 min Scan# 1955
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.9	83.0	124.4	
160	45.9	36.1	54.1	

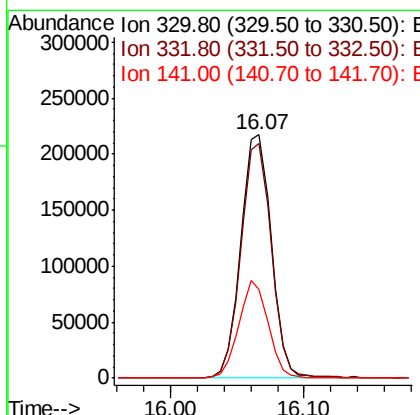
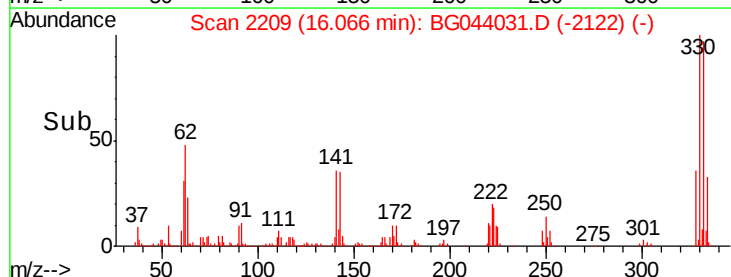
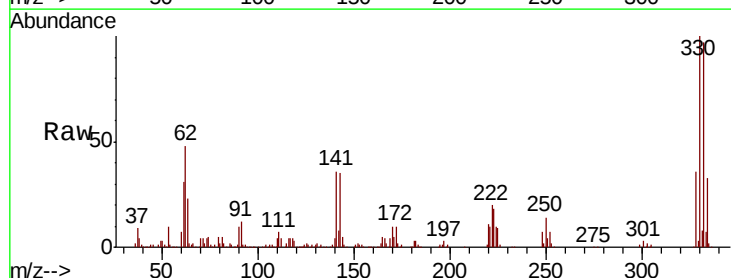
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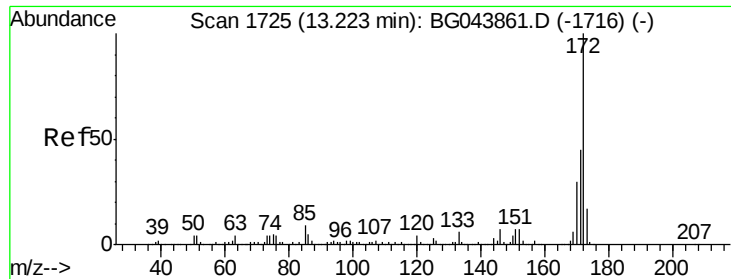
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#42
2,4,6-Tribromophenol
Concen: 96.527 ng
RT: 16.07 min Scan# 2209
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.9	77.2	115.8	
141	38.9	33.1	49.7	





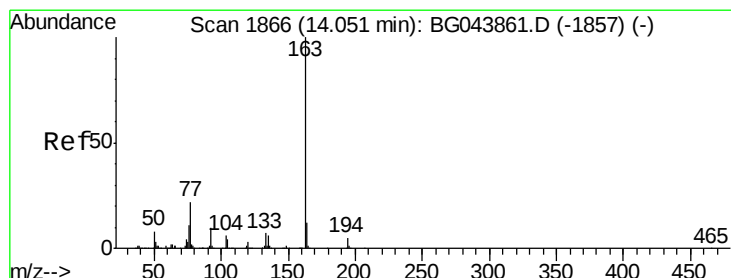
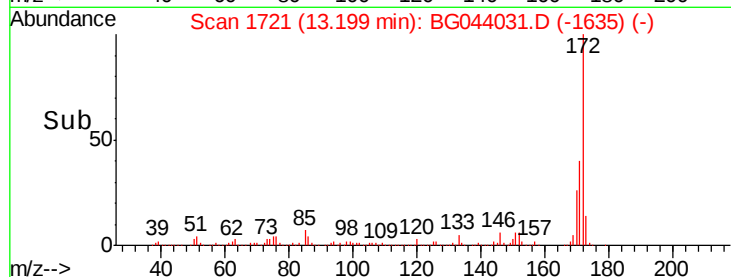
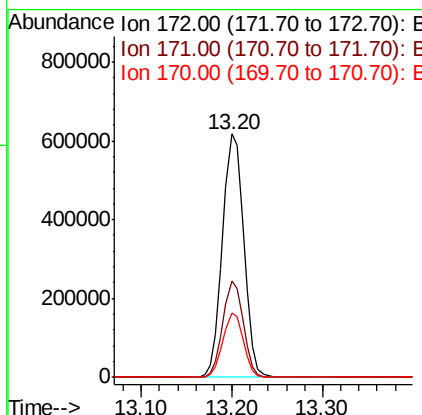
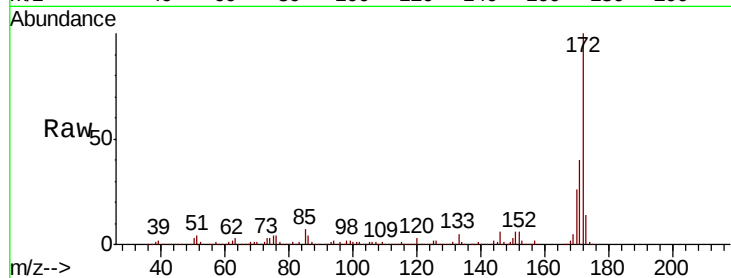
#45
2-Fluorobiphenyl
Concen: 53.937 ng
RT: 13.20 min Scan# 1721
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Lower	Upper
172	100		
171	39.6	35.8	53.8
170	26.2	24.2	36.4

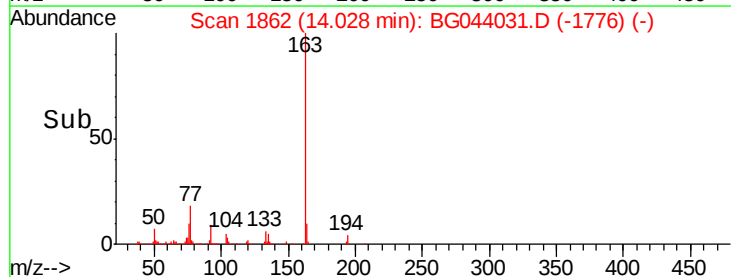
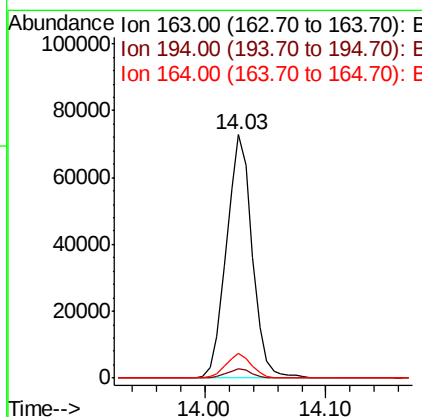
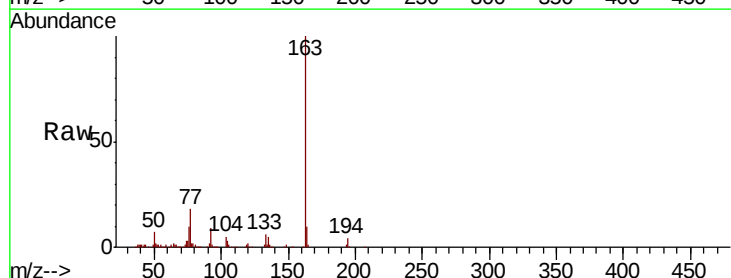
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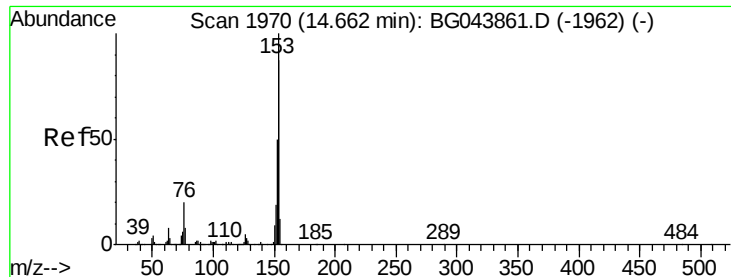
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#50
Dimethylphthalate
Concen: 4.472 ng
RT: 14.03 min Scan# 1862
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.7	5.5
164	10.3	9.3	13.9





#52

Acenaphthene

Concen: 2.318 ng

RT: 14.64 min Scan# 1966

Delta R.T. -0.02 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Instrument :

BNA_G

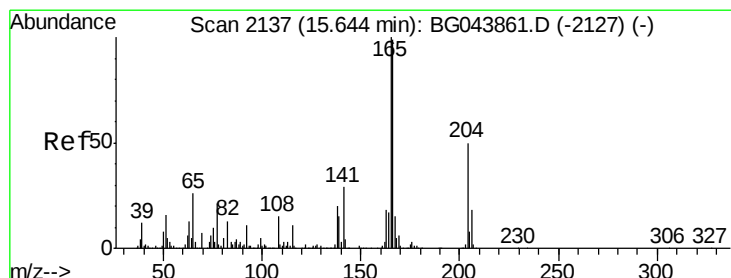
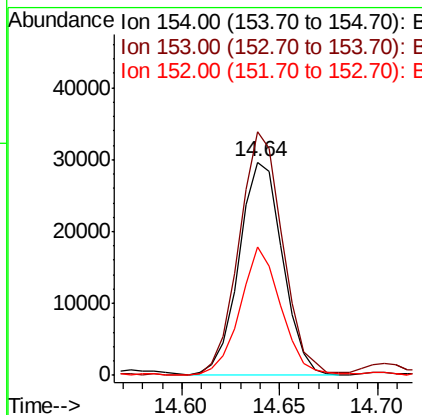
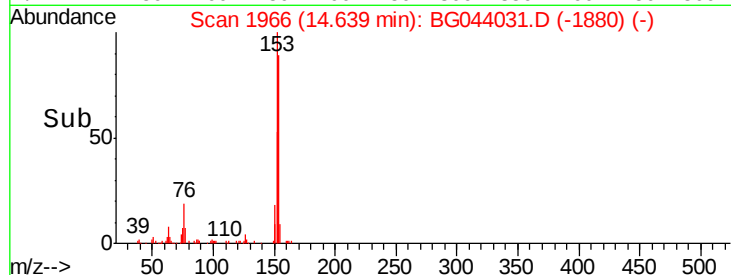
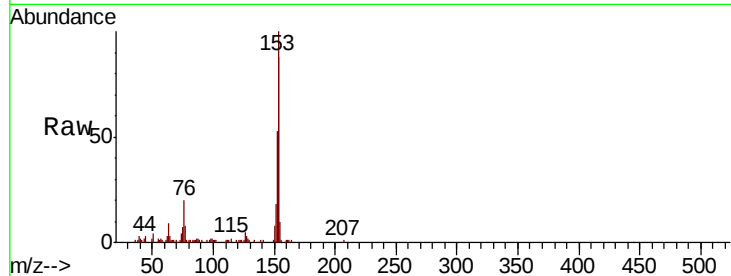
ClientSampleId :

CIY1-BC-SB-104-0-5

Tot Ion:	154	Resp:	45967
Ion	Ratio	Lower	Upper
154	100		
153	114.2	91.6	137.4
152	60.5	45.4	68.0

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#58

Fluorene

Concen: 2.528 ng

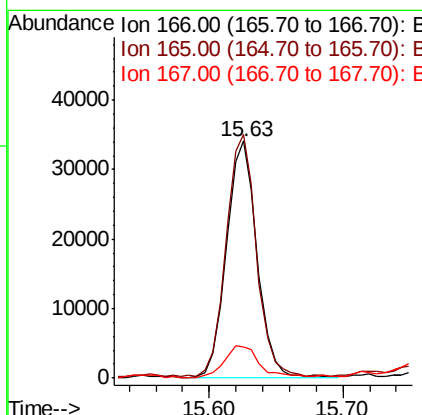
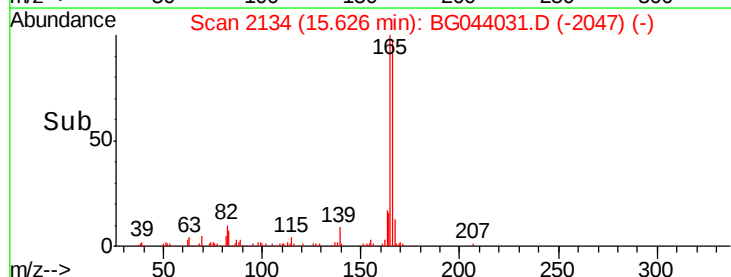
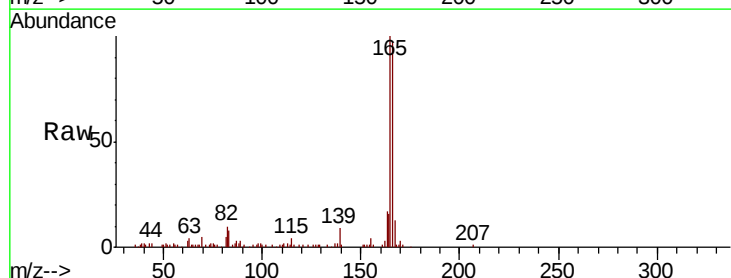
RT: 15.63 min Scan# 2134

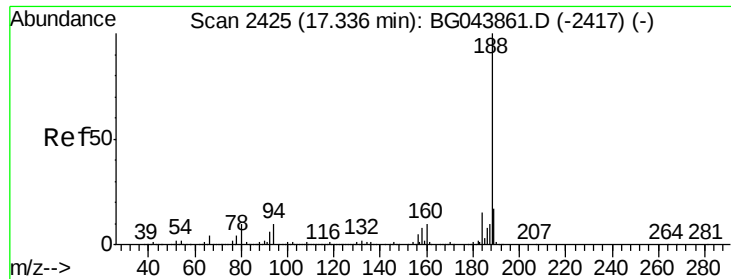
Delta R.T. -0.02 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Tgt Ion:	166	Resp:	54690
Ion	Ratio	Lower	Upper
166	100		
165	102.9	80.8	121.2
167	13.0	12.1	18.1





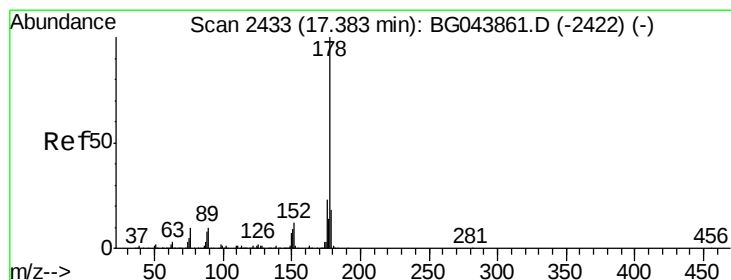
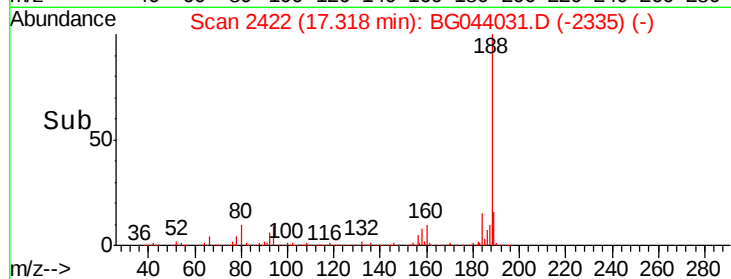
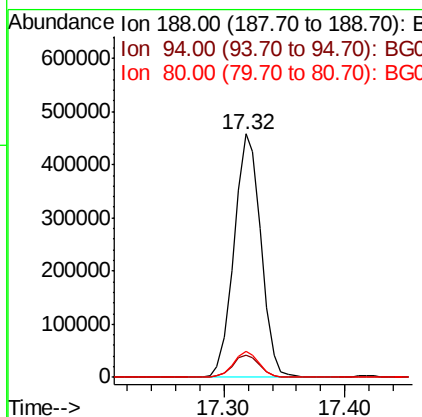
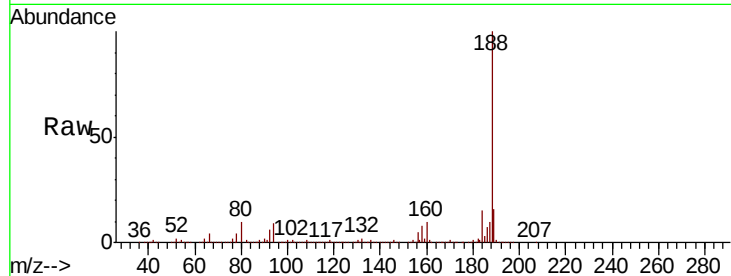
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.32 min Scan# 2422
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion:	188	Resp:	708650
Ion Ratio	Lower	Upper	
188	100		
94	9.3	7.9	11.9
80	10.5	8.2	12.4

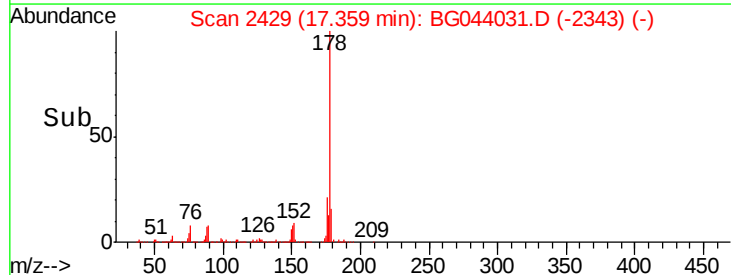
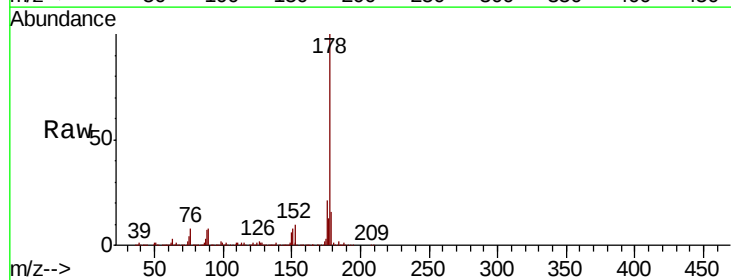
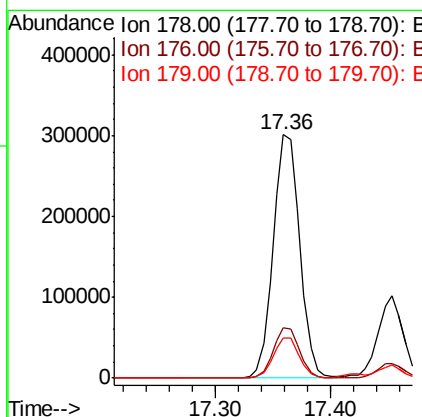
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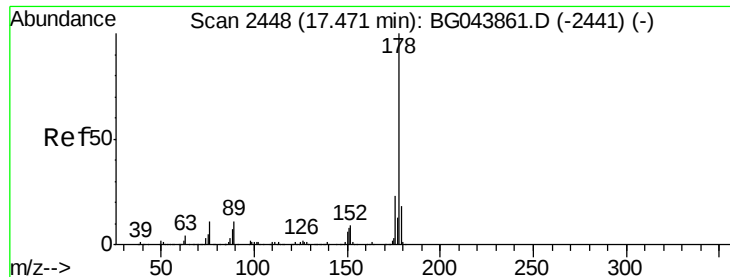
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#71
Phenanthrene
Concen: 14.167 ng
RT: 17.36 min Scan# 2429
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion:	178	Resp:	481538
Ion Ratio	Lower	Upper	
178	100		
176	20.7	18.6	28.0
179	16.2	14.4	21.6





#72

Anthracene

Concen: 4.413 ng

RT: 17.45 min Scan# 2445

Delta R.T. -0.02 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Instrument :

BNA_G

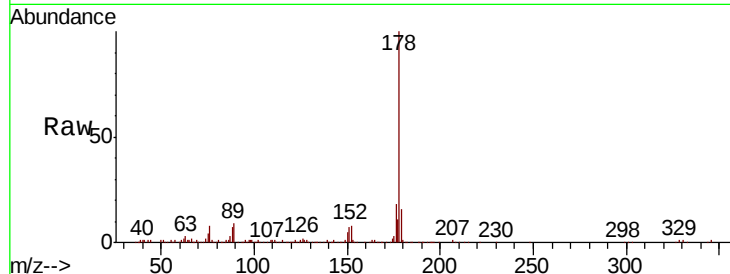
ClientSampleId :

CIY1-BC-SB-104-0-5

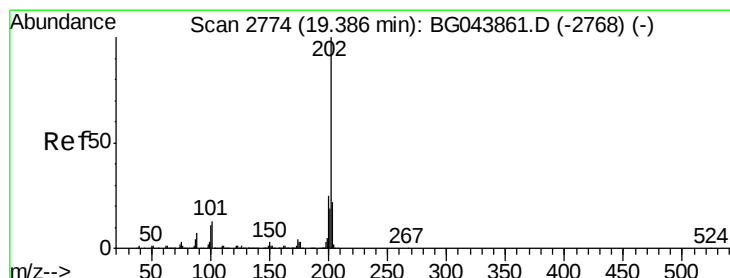
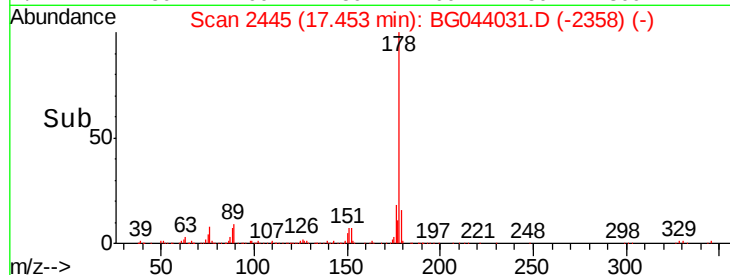
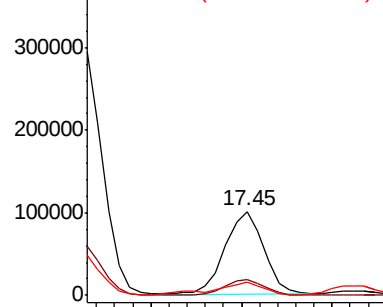
Tot Ion:	178	Resp:	148245
Ion Ratio	Lower	Upper	
178	100		
176	18.3	18.3	27.5
179	15.9	14.6	22.0

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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



#75

Fluoranthene

Concen: 19.794 ng

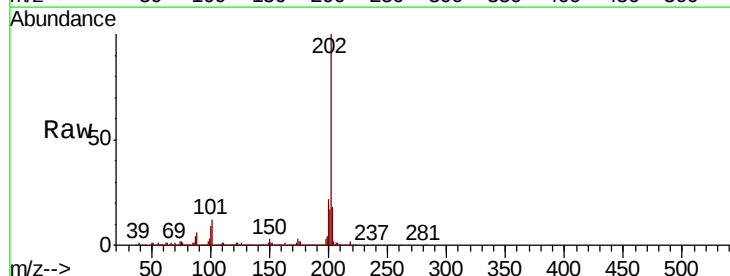
RT: 19.37 min Scan# 2771

Delta R.T. -0.02 min

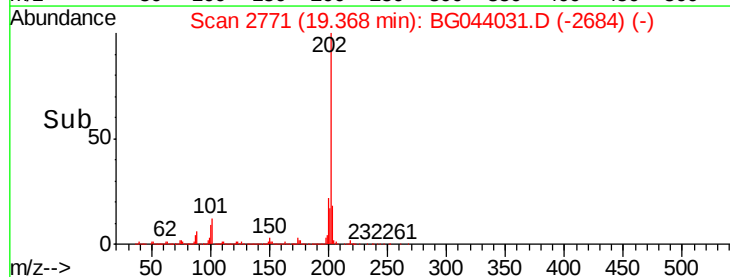
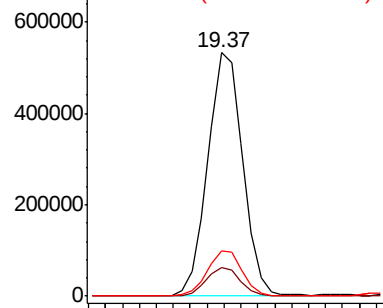
Lab File: BG044031.D

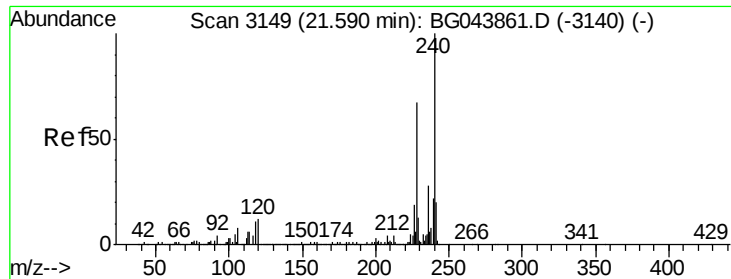
Acq: 14 Jan 2020 3:33

Tgt Ion:	202	Resp:	769442
Ion Ratio	Lower	Upper	
202	100		
101	11.8	0.0	33.3
203	18.5	1.6	41.6



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





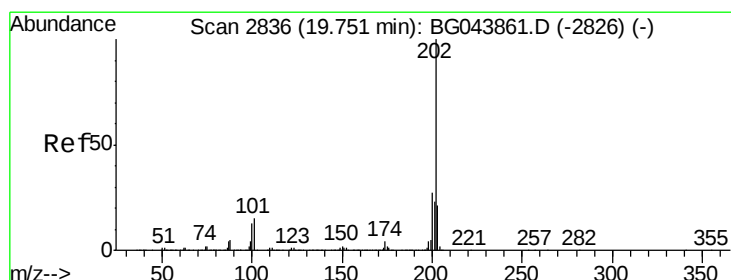
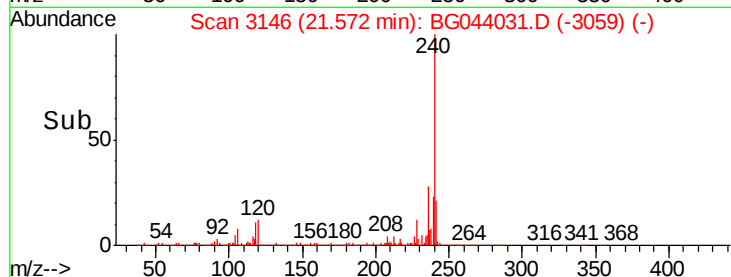
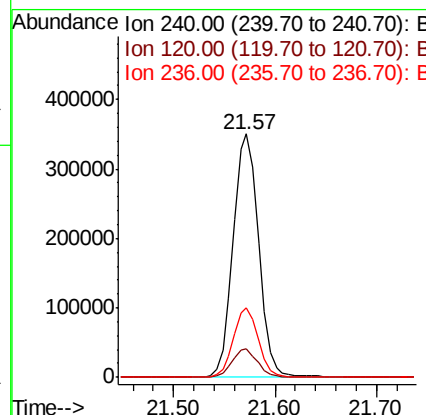
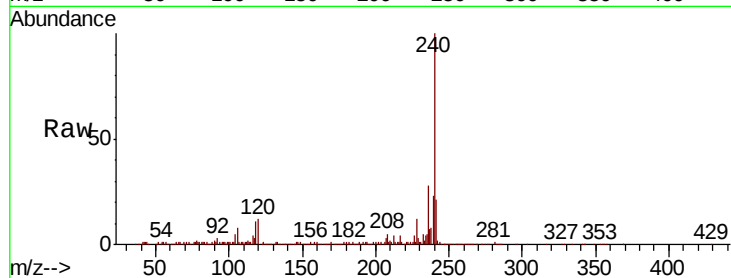
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.57 min Scan# 3146
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Resp	Lower	Upper
240	100	612692		
120	12.0	9.6	14.4	
236	28.4	22.2	33.2	

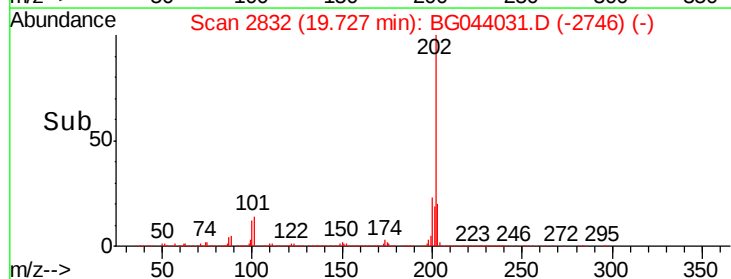
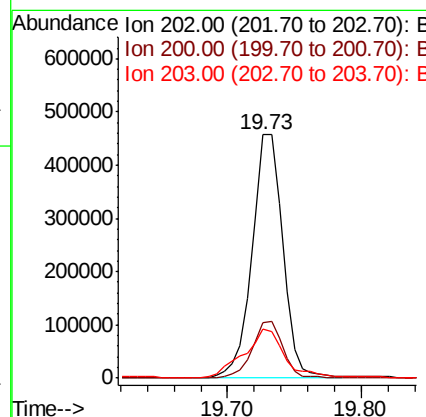
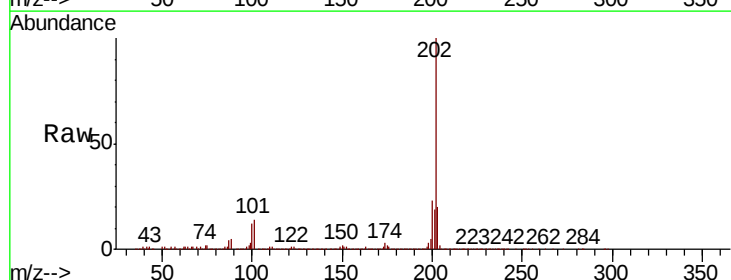
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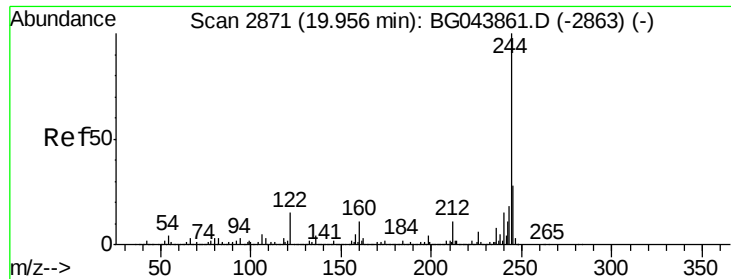
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#78
Pyrene
Concen: 18.116 ng
RT: 19.73 min Scan# 2832
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	724503		
200	23.0	21.7	32.5	
203	19.9	17.0	25.6	





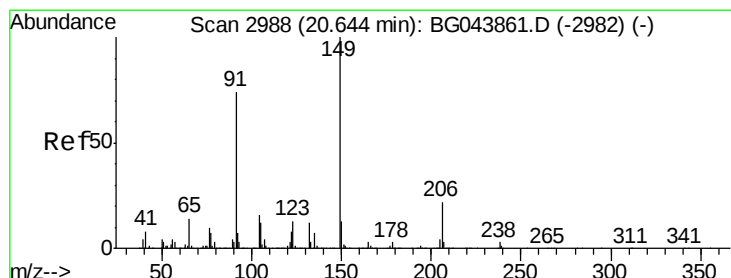
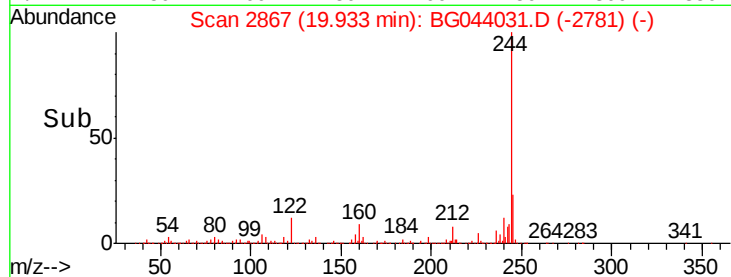
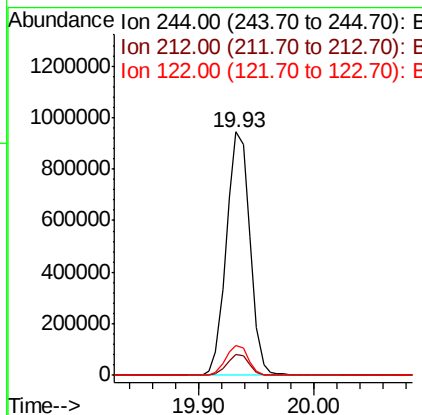
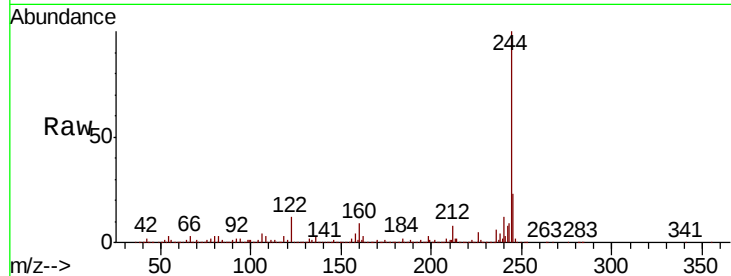
#79
 Terphenyl-d14
 Concen: 44.884 ng
 RT: 19.93 min Scan# 2867
 Delta R.T. -0.02 min
 Lab File: BG044031.D
 Acq: 14 Jan 2020 3:33

Instrument :
 BNA_G
 ClientSampleId :
 CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.3	8.6	13.0#
122	12.2	11.9	17.9

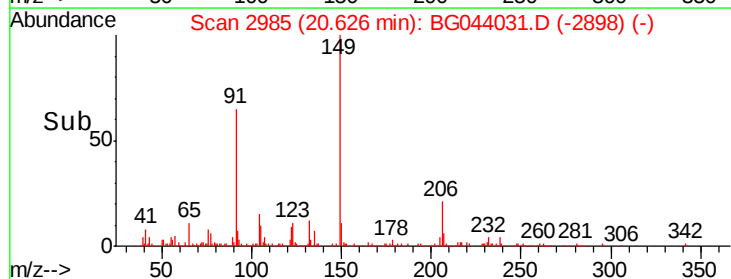
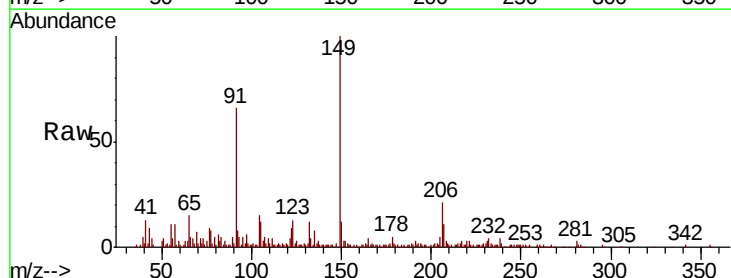
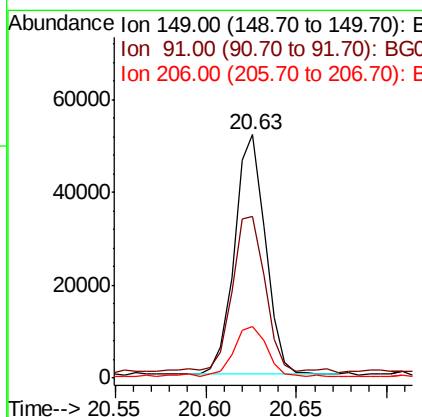
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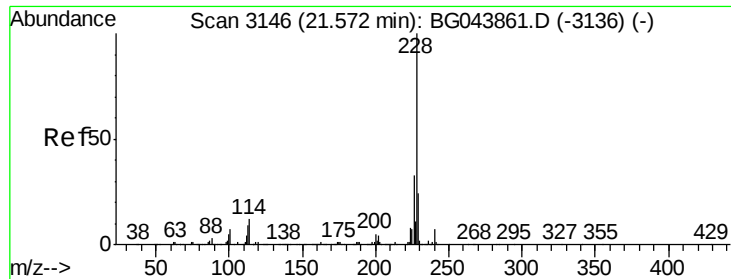
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#80
 Butylbenzylphthalate
 Concen: 3.203 ng
 RT: 20.63 min Scan# 2985
 Delta R.T. -0.02 min
 Lab File: BG044031.D
 Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Lower	Upper
149	100		
91	66.4	59.5	89.3
206	21.1	17.8	26.6





#81

Benzo(a)anthracene

Concen: 10.258 ng

RT: 21.55 min Scan# 3142

Delta R.T. -0.02 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Instrument :

BNA_G

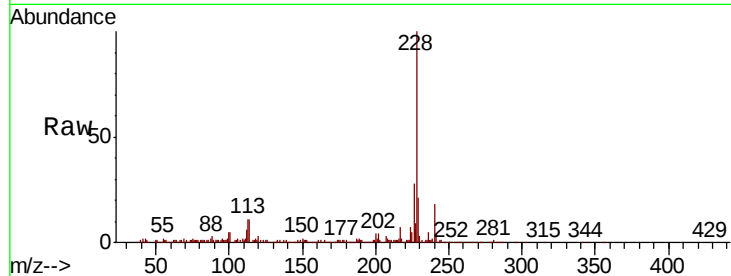
ClientSampleId :

CIY1-BC-SB-104-0-5

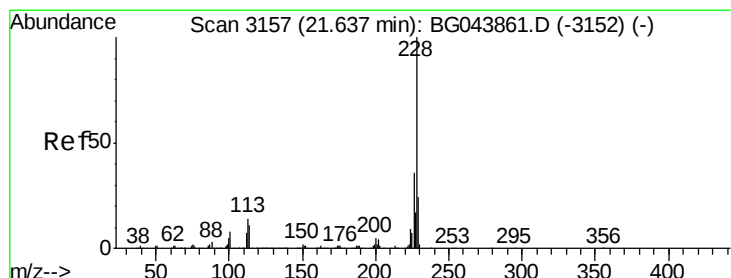
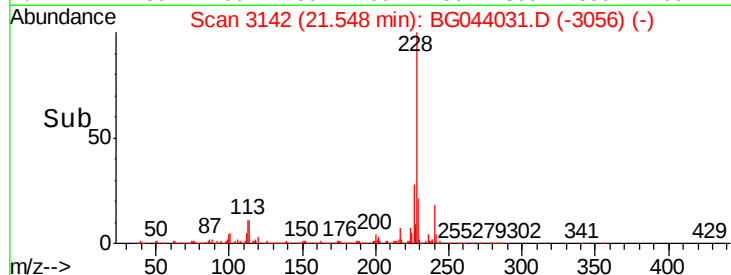
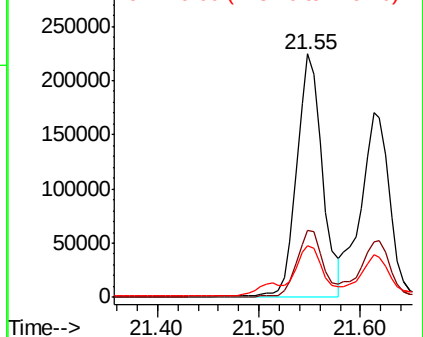
Tot Ion:	228	Resp:	389725
Ion Ratio	Lower	Upper	
228	100		
226	27.7	26.2	39.4
229	21.3	18.9	28.3

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 9.320 ng

RT: 21.61 min Scan# 3153

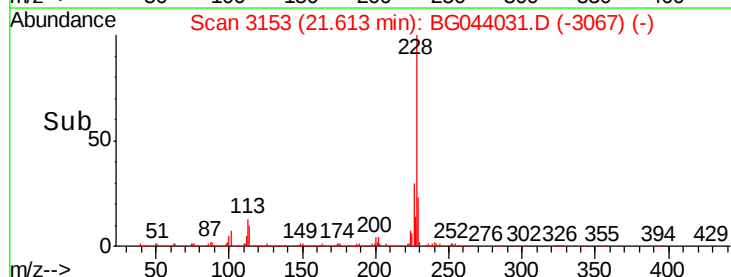
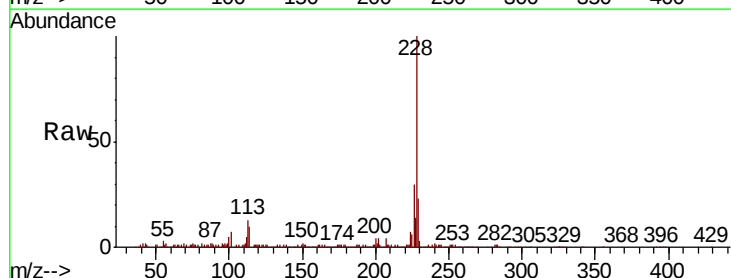
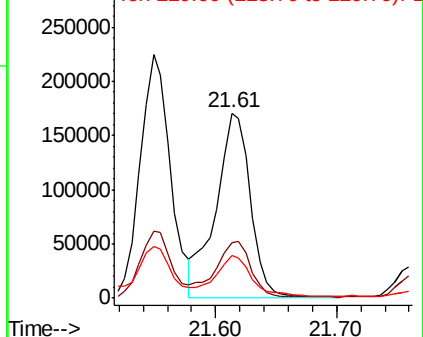
Delta R.T. -0.02 min

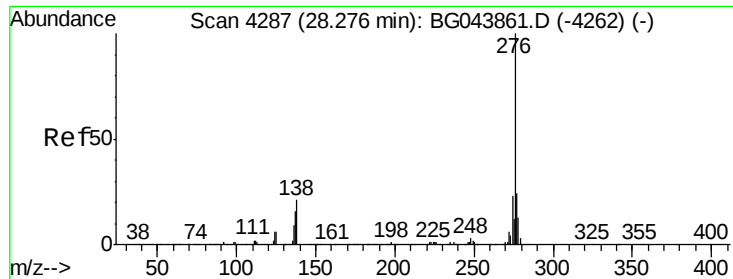
Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Tgt Ion:	228	Resp:	336438
Ion Ratio	Lower	Upper	
228	100		
226	30.0	28.8	43.2
229	23.2	19.0	28.6

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





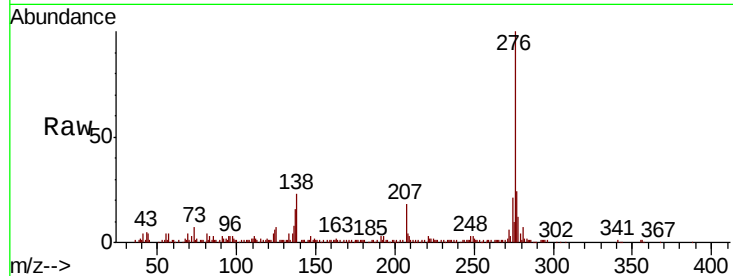
#86
Indeno(1,2,3-cd)pyrene
Concen: 4.577 ng
RT: 28.28 min Scan# 4288
Delta R.T. 0.01 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

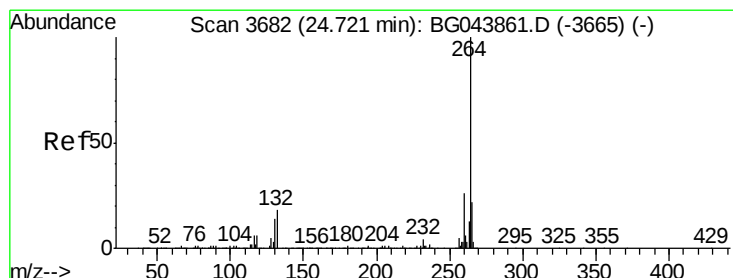
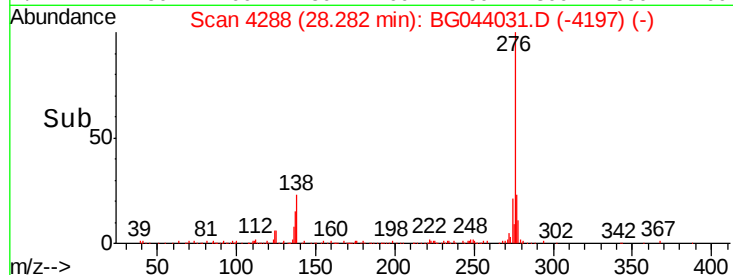
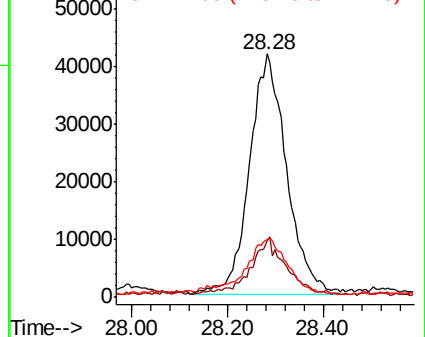
Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100		224531		
138	21.7	21.0	31.4		
277	27.2	21.1	31.7		

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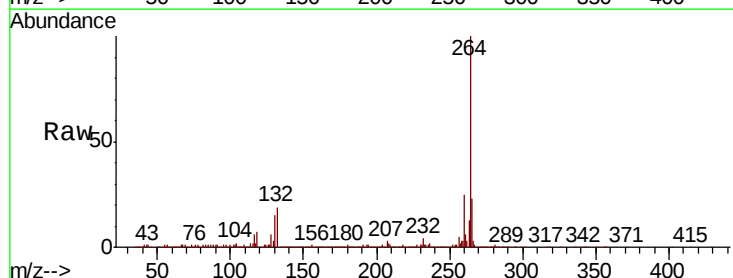


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

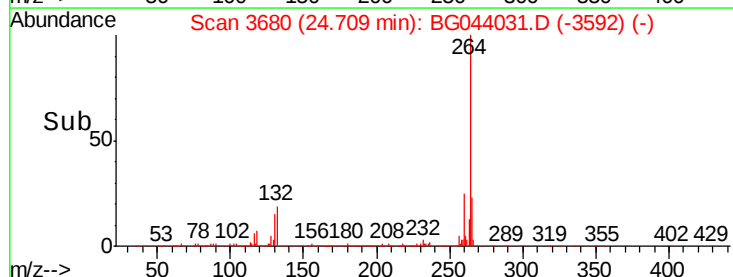
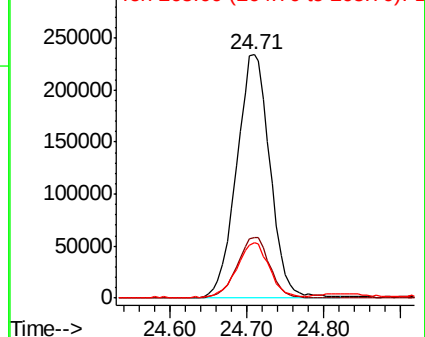


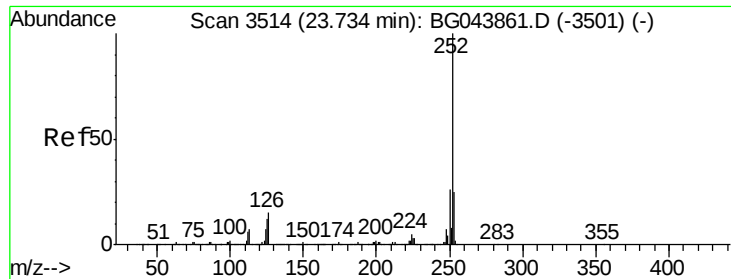
#87
Perylene-d12
Concen: 20.000 ng
RT: 24.71 min Scan# 3680
Delta R.T. -0.01 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
264	100		707516		
260	25.1	20.4	30.6		
265	22.9	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: 10.845 ng

RT: 23.71 min Scan# 3510

Delta R.T. -0.02 min

Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Instrument :

BNA_G

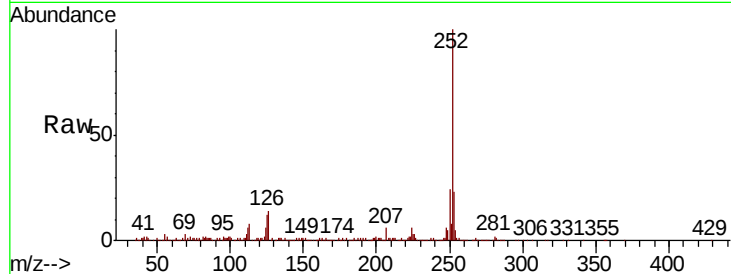
ClientSampleId :

CIY1-BC-SB-104-0-5

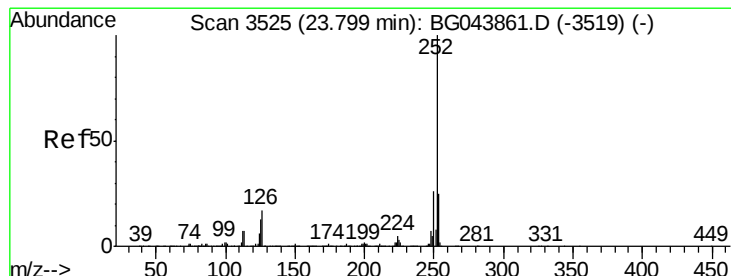
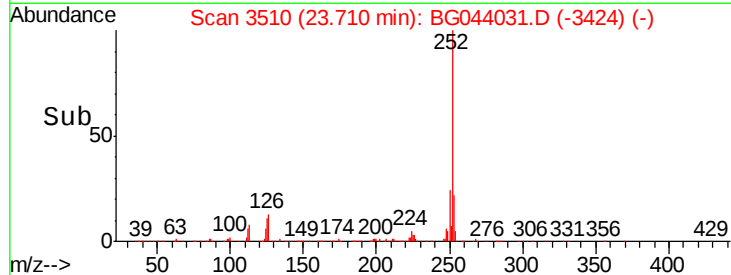
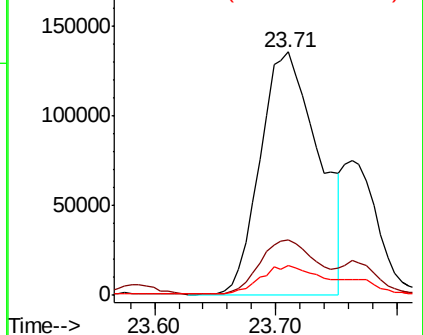
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.7	29.5
125	12.1	9.4	14.2

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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



#89

Benzo(k)fluoranthene

Concen: 3.861 ng m

RT: 23.76 min Scan# 3519

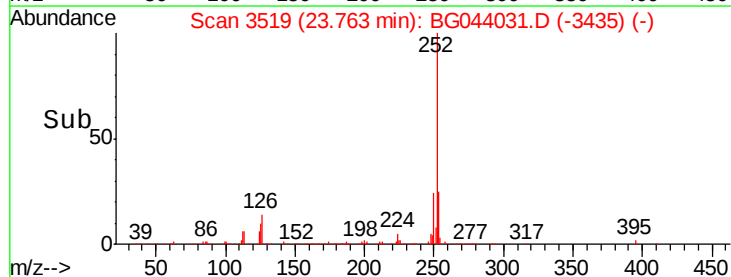
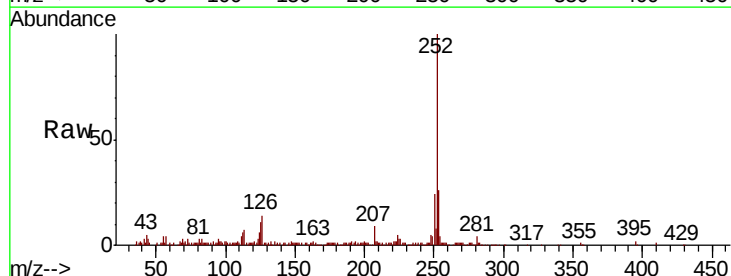
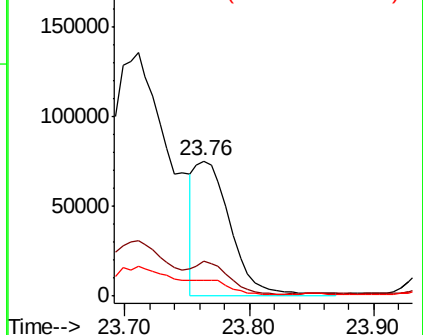
Delta R.T. -0.04 min

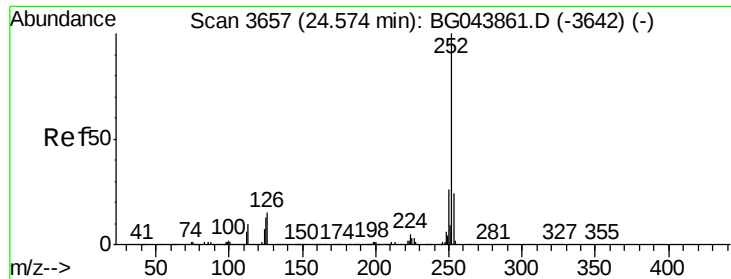
Lab File: BG044031.D

Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.0	19.4	29.2
125	11.2	9.9	14.9

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





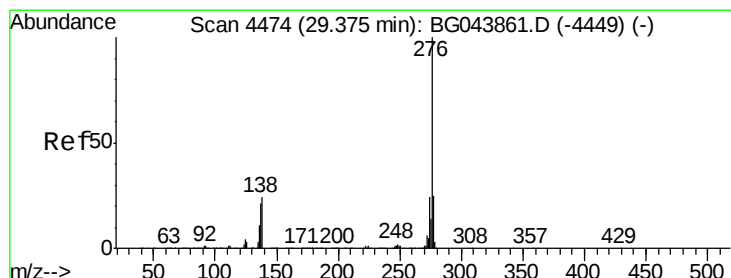
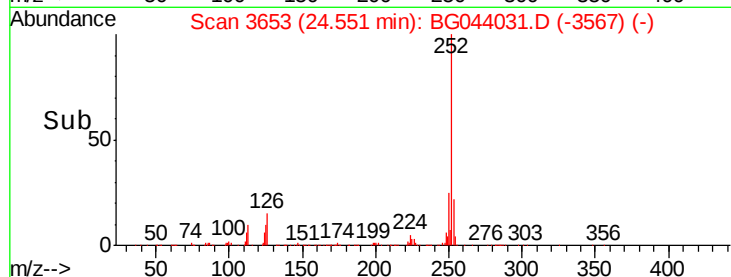
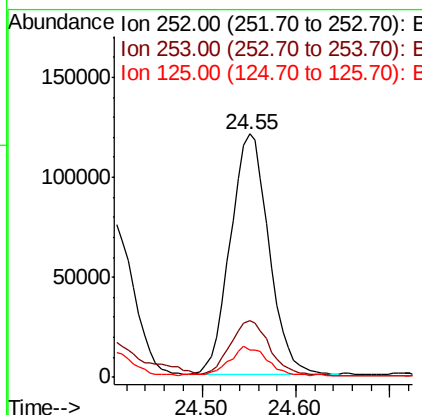
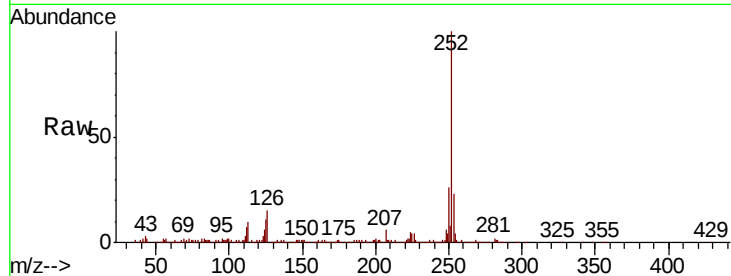
#90
Benzo(a)pyrene
Concen: 8.620 ng
RT: 24.55 min Scan# 3653
Delta R.T. -0.02 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Instrument :
BNA_G
ClientSampleId :
CIY1-BC-SB-104-0-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	19.3	28.9
125	11.0	10.4	15.6

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#92
Benzo(g,h,i)perylene
Concen: 5.487 ng
RT: 29.41 min Scan# 4480
Delta R.T. 0.04 min
Lab File: BG044031.D
Acq: 14 Jan 2020 3:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.2	30.4
138	22.6	19.0	28.6

