

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091619\
 Data File : BG042861.D
 Acq On : 16 Sep 2019 23:01
 Operator : HP/JU
 Sample : K4850-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 AOC-7-(5)

Manual Integrations
 APPROVED

mohammad
 9/17/2019 1:26:50 PM

Quant Time: Sep 17 04:31:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG091219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 12 14:06:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	117923	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	461790	20.00	ng	0.00
39) Acenaphthene-d10	14.73	164	295341	20.00	ng	0.00
64) Phenanthrene-d10	17.48	188	589495	20.00	ng	0.00
76) Chrysene-d12	21.76	240	578819	20.00	ng	0.00
87) Perylene-d12	25.04	264	657773	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.69	112	645559	95.18	ng	0.00
7) Phenol-d6	7.27	99	959823	98.59	ng	0.00
23) Nitrobenzene-d5	9.28	82	606523	68.38	ng	0.00
42) 2,4,6-Tribromophenol	16.22	330	360595	91.77	ng	0.00
45) 2-Fluorobiphenyl	13.37	172	1044913	56.00	ng	0.00
79) Terphenyl-d14	20.09	244	1303251	49.90	ng	0.00
Target Compounds						
38) 1-Methylnaphthalene	12.79	142	70422	4.396	ng	Qvalue # 96
49) Acenaphthylene	14.46	152	391771	14.989	ng	100
50) Dimethylphthalate	14.18	163	258991	11.706	ng	99
52) Acenaphthene	14.80	154	112800	6.606	ng	99
58) Fluorene	15.78	166	115728	5.502	ng	97
72) Anthracene	17.61	178	117385	4.168	ng	98
75) Fluoranthene	19.53	202	735335	20.126	ng	95
78) Pyrene	19.89	202	2814907m	77.679	ng	
81) Benzo(a)anthracene	21.74	228	1479449	40.200	ng	# 86
83) Chrysene	21.81	228	1269194	36.408	ng	96
86) Indeno(1,2,3-cd)pyrene	28.78	276	730308	16.917	ng	# 92
88) Benzo(b)fluoranthene	24.01	252	1402390	36.310	ng	97
89) Benzo(k)fluoranthene	24.06	252	458464m	12.566	ng	
90) Benzo(a)pyrene	24.89	252	1753598	48.489	ng	99
91) Dibenzo(a,h)anthracene	28.82	278	235560	6.622	ng	95
92) Benzo(g,h,i)perylene	29.94	276	797727	22.993	ng	98

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

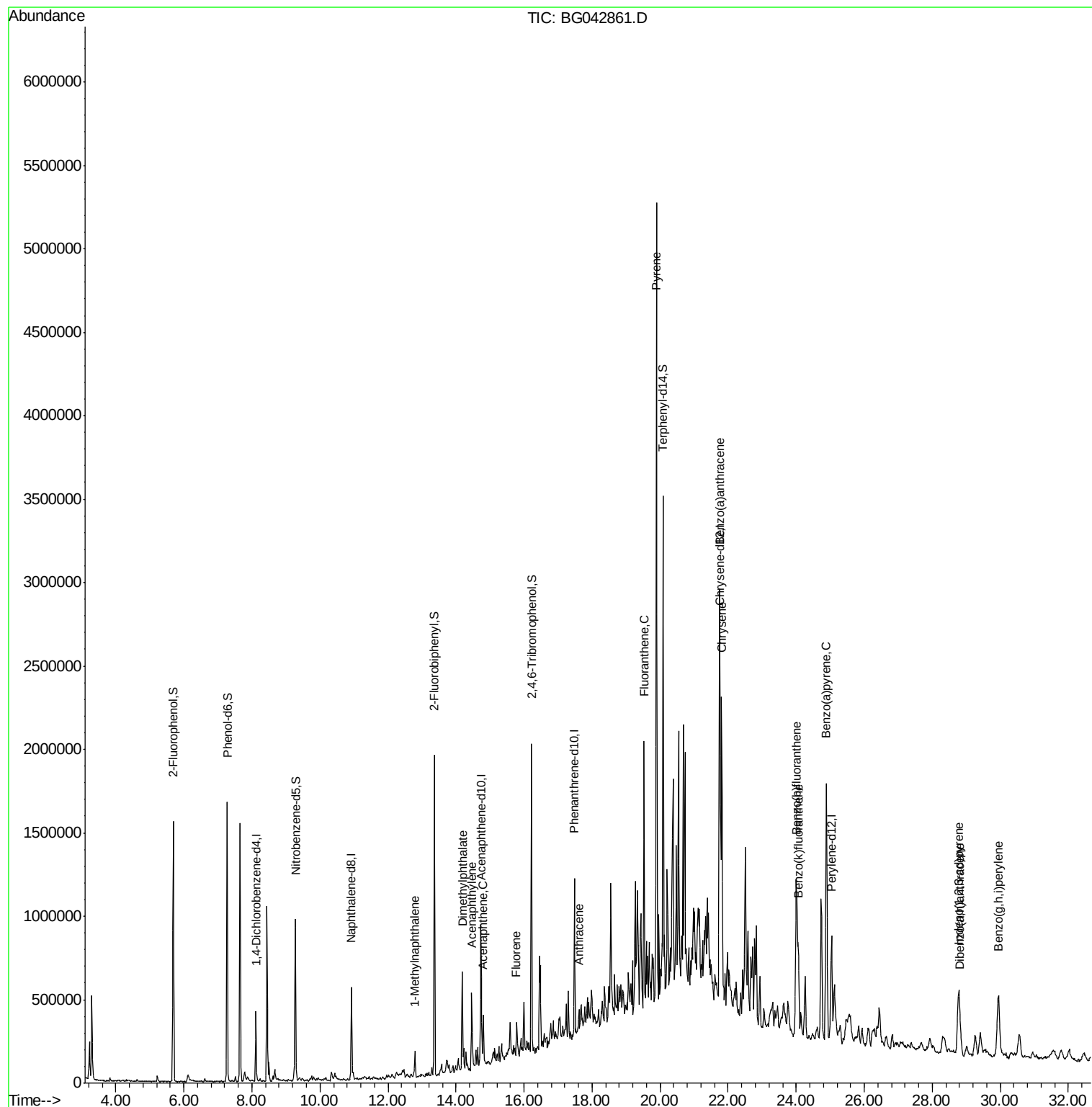
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091619\
Data File : BG042861.D
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ALS Vial : 13 Sample Multiplier: 1

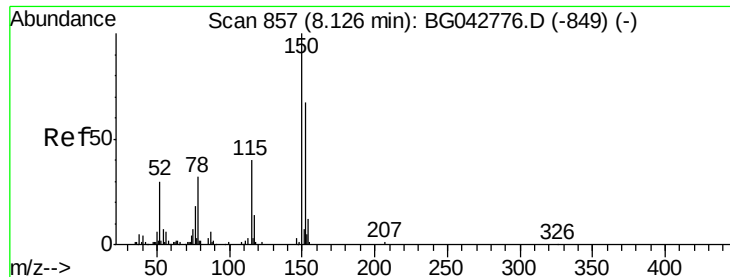
Instrument :
BNA_G
ClientSampleId :
AOC-7-(5)

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Quant Time: Sep 17 04:31:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG091219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 12 14:06:09 2019
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#1

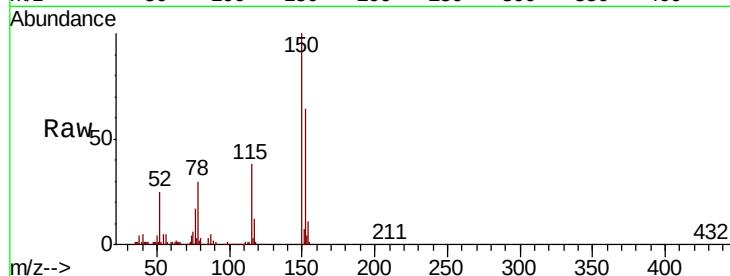
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.12 min Scan# 856
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampled :
AOC-7(-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	118.9	178.3
115	59.2	47.4	71.2

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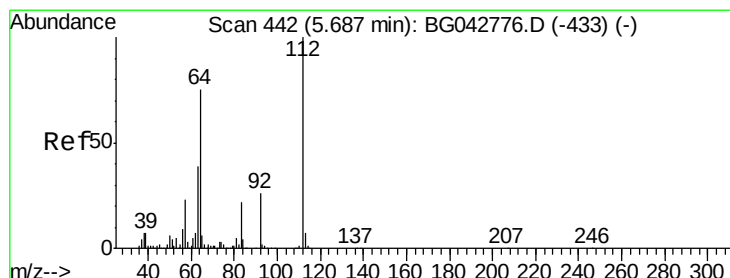
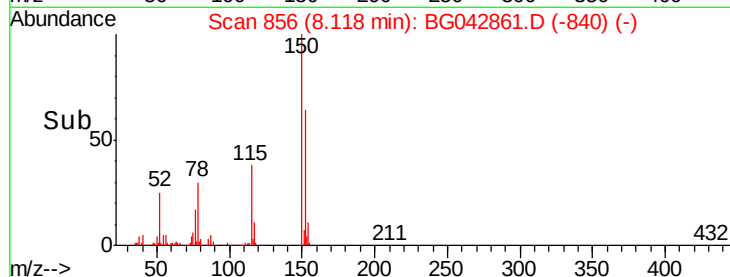
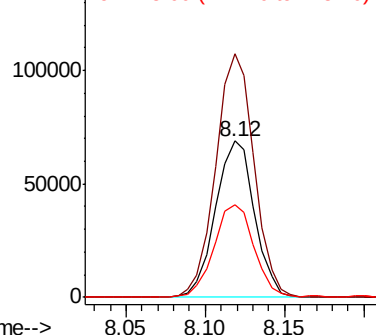


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

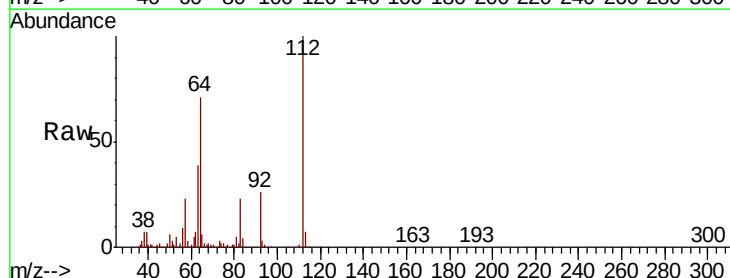
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 95.175 ng
RT: 5.69 min Scan# 442
Delta R.T. -0.00 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.5	60.2	90.2
63	39.2	31.2	46.8

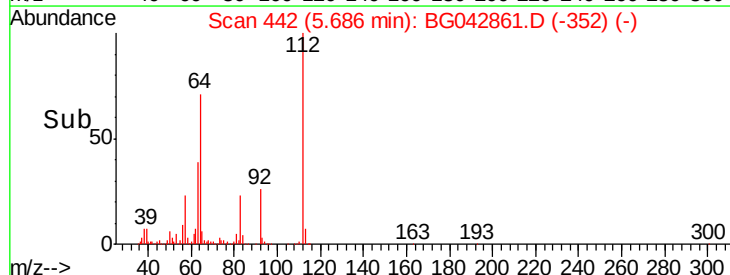
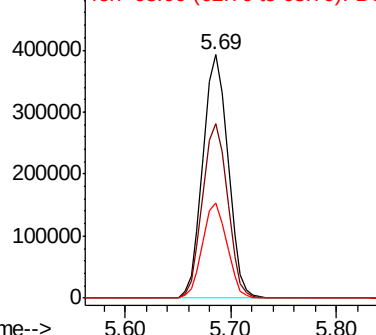


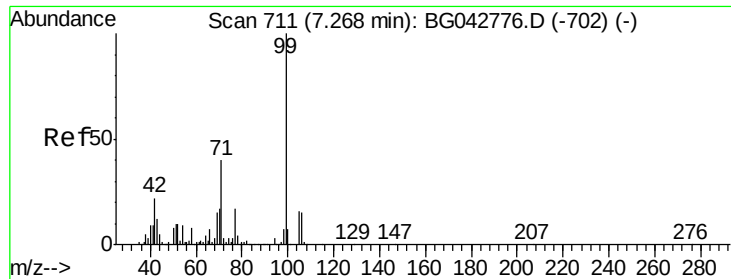
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 98.588 ng

RT: 7.27 min Scan# 712

Delta R.T. 0.00 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Instrument :

BNA_G

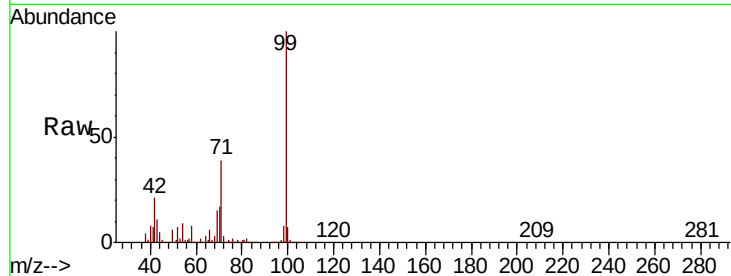
ClientSampleId :

AOC-7(-5)

Tot Ion:	99	Resp:	959823
Ion Ratio	Lower	Upper	
99	100		
42	20.6	17.5	26.3
71	39.2	32.0	48.0

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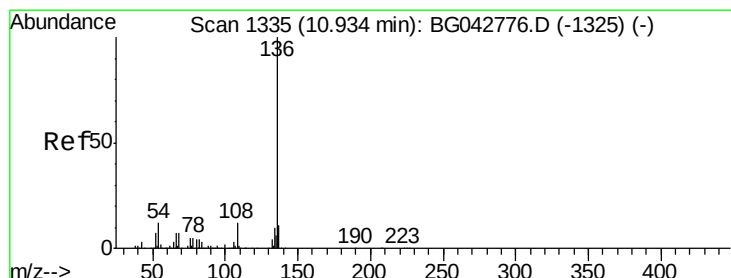
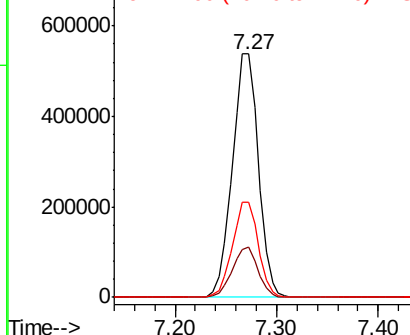
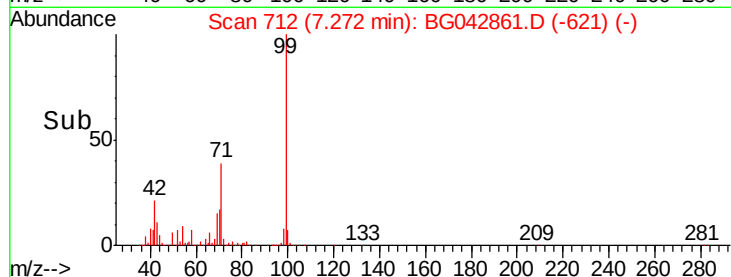


Abundance

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

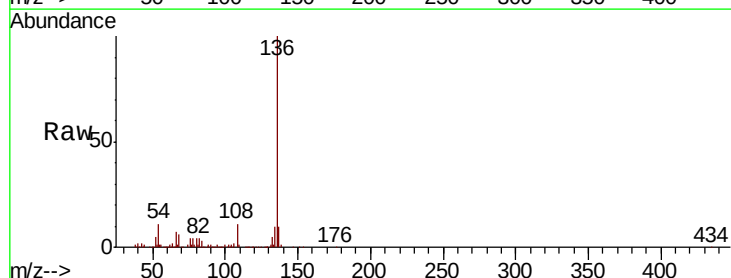
RT: 10.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Tgt Ion:	136	Resp:	461790
Ion Ratio	Lower	Upper	
136	100		
137	10.4	9.0	13.6
54	10.5	9.4	14.0
68	5.6	5.4	8.2



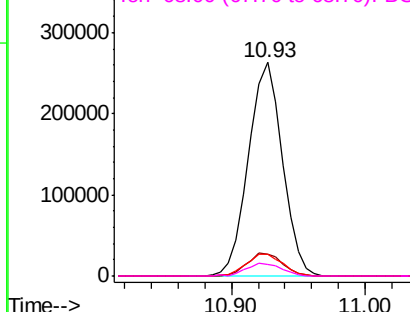
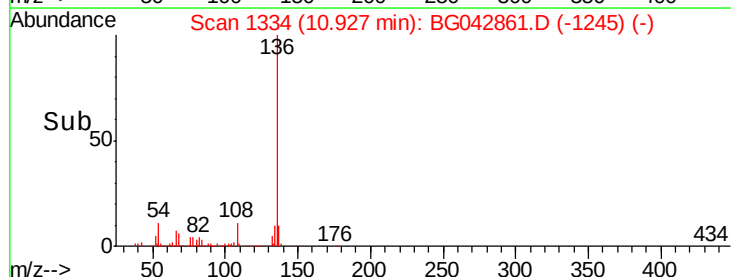
Abundance

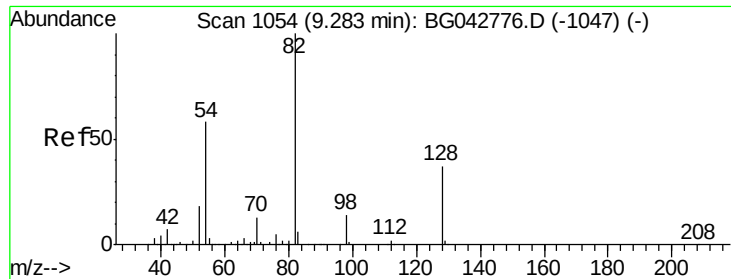
Ion 136.00 (135.70 to 136.70): BGC

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





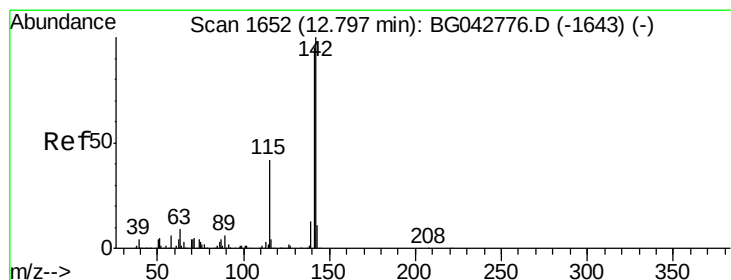
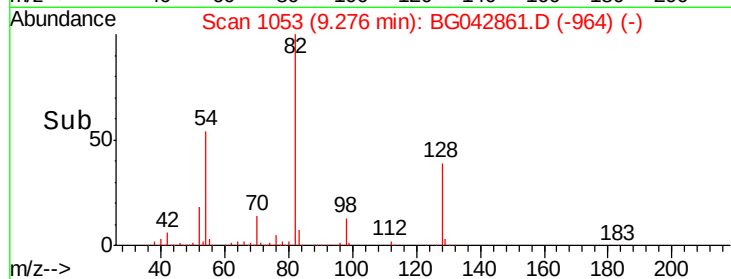
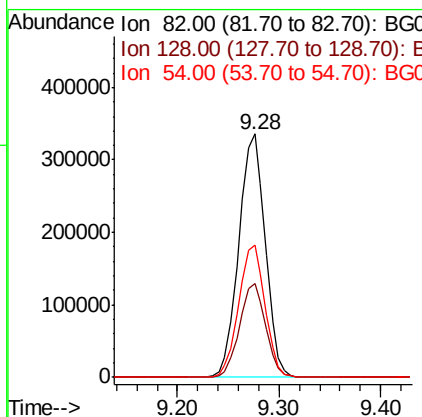
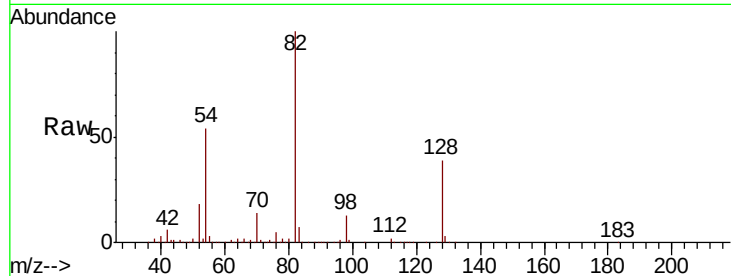
#23
Nitrobenzene-d5
Concen: 68.380 ng
RT: 9.28 min Scan# 1053
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampleId :
AOC-7(-5)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	606523		
128	38.6	29.8	44.8	
54	54.4	46.1	69.1	

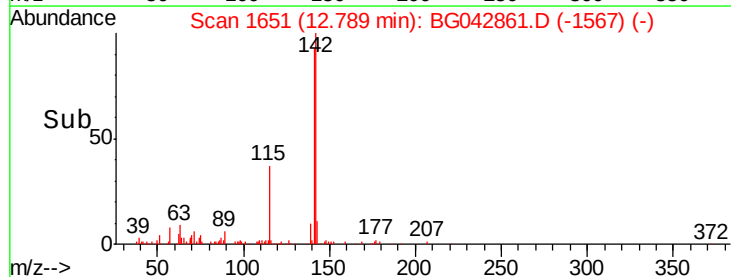
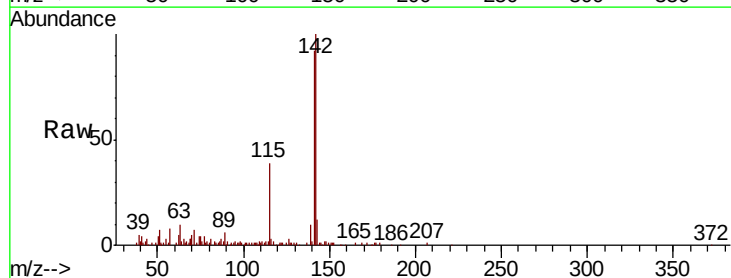
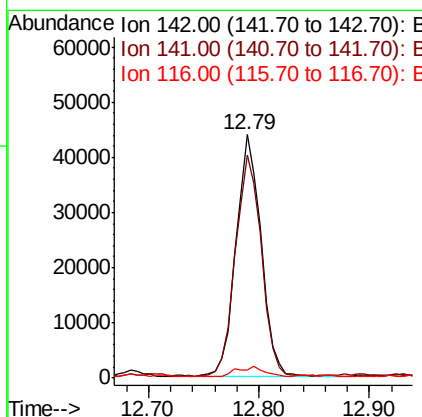
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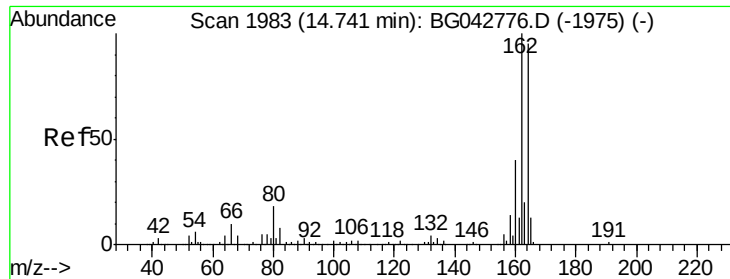
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#38
1-Methylnaphthalene
Concen: 4.396 ng
RT: 12.79 min Scan# 1651
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	70422		
141	91.7	76.3	114.5	
116	3.2	3.4	5.0	





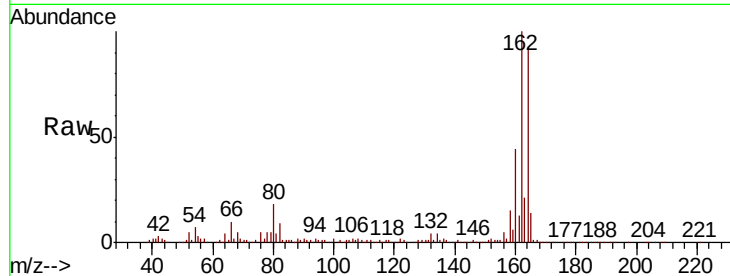
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.73 min Scan# 1982
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampleId :
AOC-7(-5)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	295341		
162	107.1	84.6	126.8	
160	47.0	34.2	51.2	

Manual Integrations
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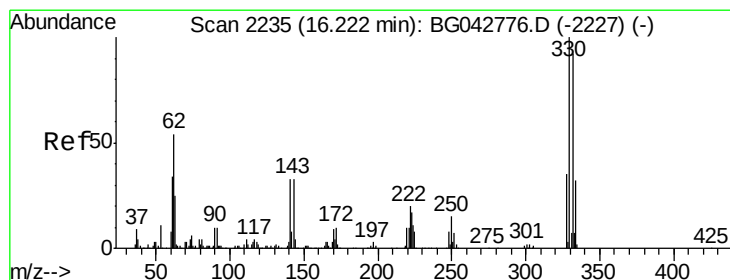
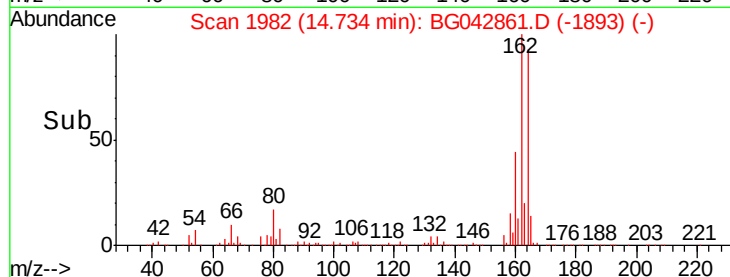
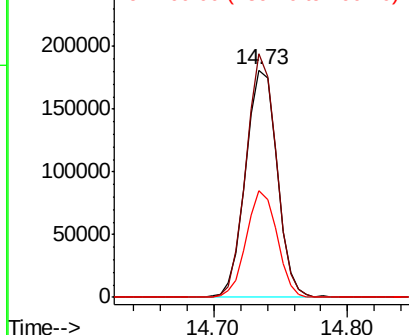


Abundance

Ion 164.00 (163.70 to 164.70): E

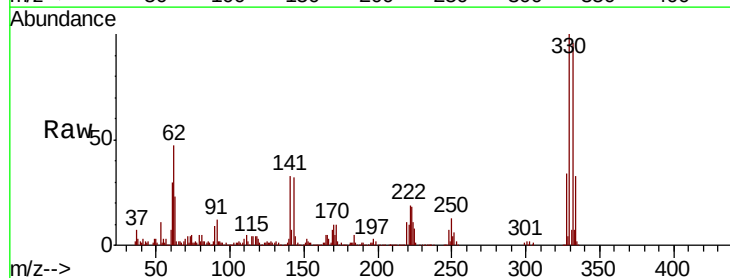
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 91.771 ng
RT: 16.22 min Scan# 2235
Delta R.T. -0.00 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	360595		
332	95.5	76.7	115.1	
141	34.8	27.0	40.6	

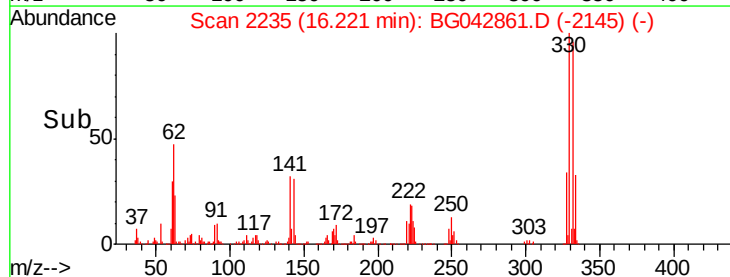
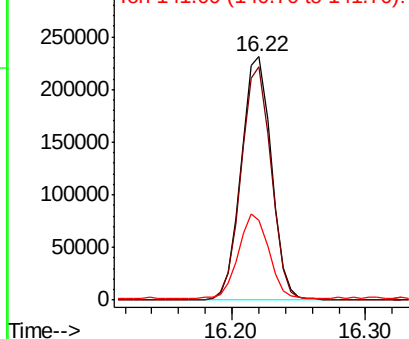


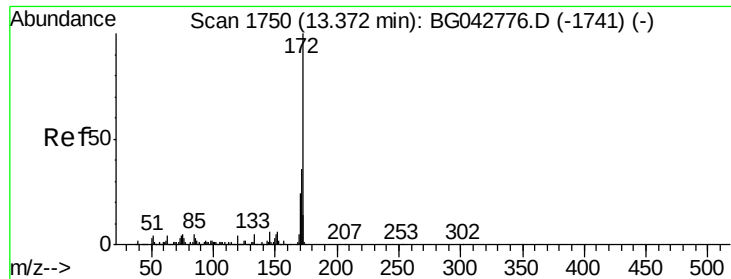
Abundance

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





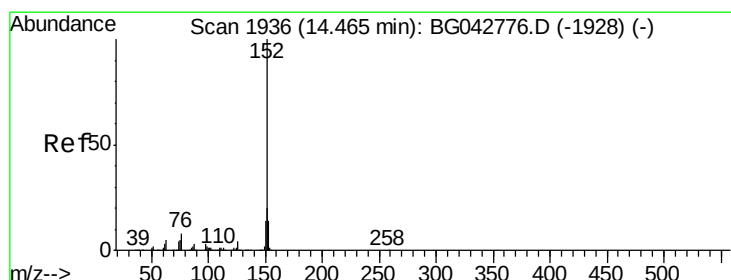
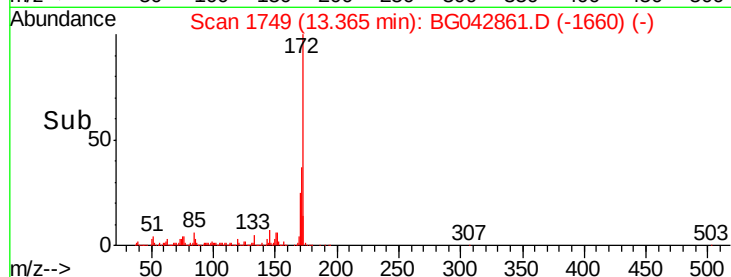
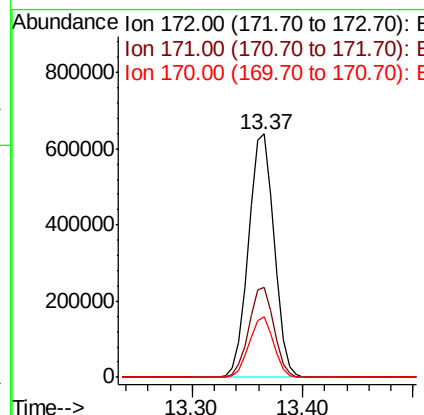
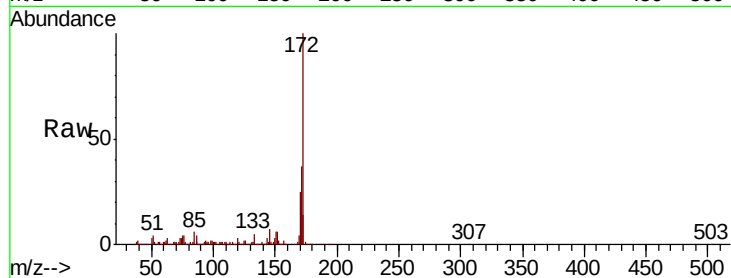
#45
2-Fluorobiphenyl
Concen: 56.004 ng
RT: 13.37 min Scan# 1749
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampleId :
AOC-7(5)

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.0	28.9	43.3
170	24.8	19.1	28.7

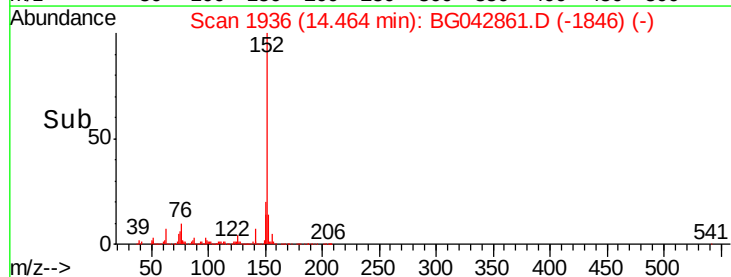
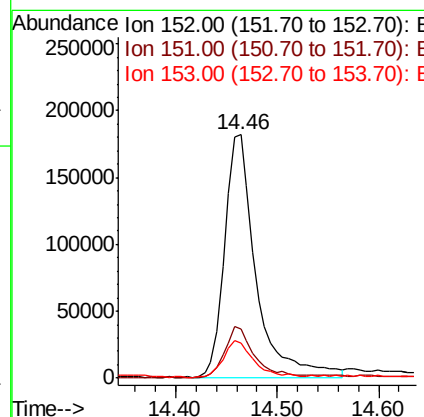
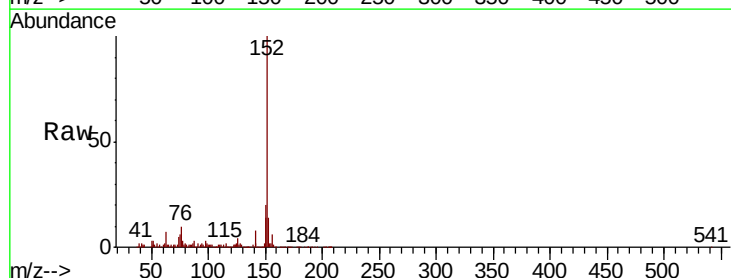
Manual Integrations
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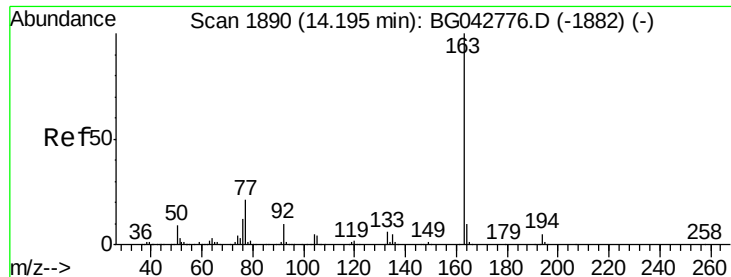
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#49
Acenaphthylene
Concen: 14.989 ng
RT: 14.46 min Scan# 1936
Delta R.T. -0.00 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	14.3	11.4	17.0





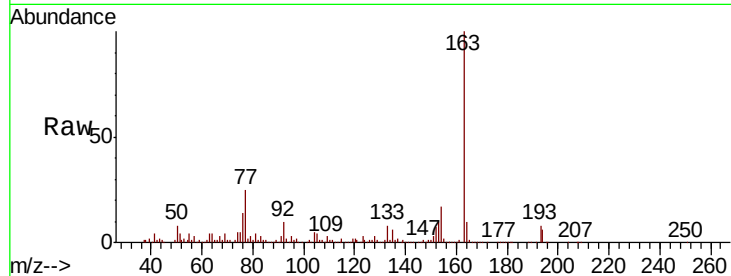
#50
Dimethylphthalate
Concen: 11.706 ng
RT: 14.18 min Scan# 1888
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampleId :
AOC-7(5)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	258991		
194	5.9	4.2	6.4	
164	10.3	8.4	12.6	

Manual Integrations
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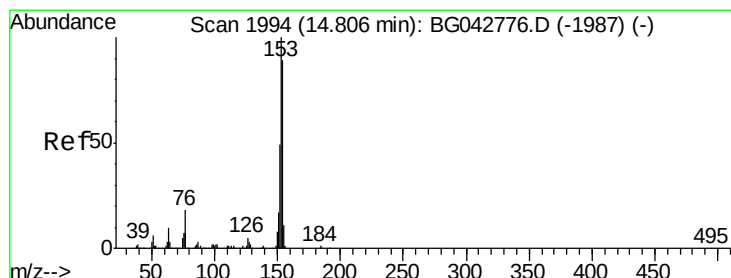
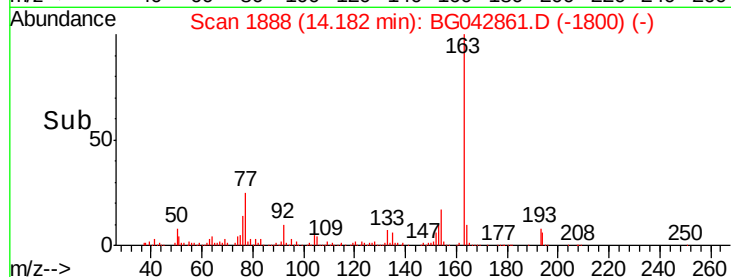
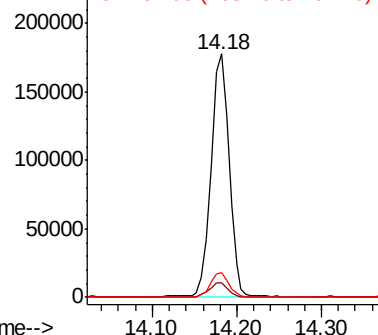


Abundance

Ion 163.00 (162.70 to 163.70): E

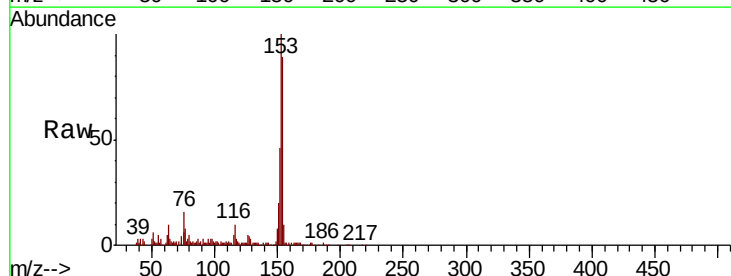
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 6.606 ng
RT: 14.80 min Scan# 1993
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	112800		
153	112.1	89.4	134.2	
152	51.7	43.5	65.3	

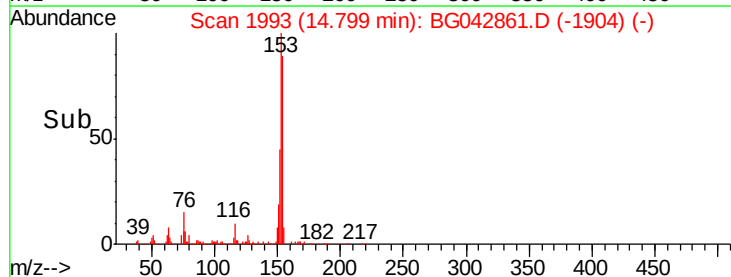
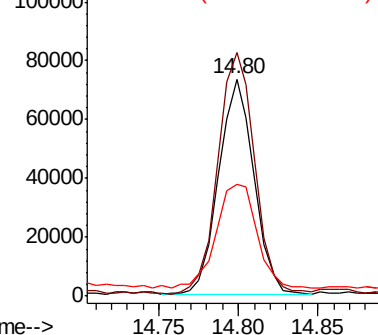


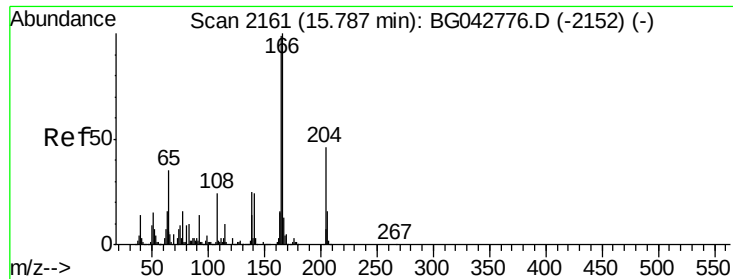
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





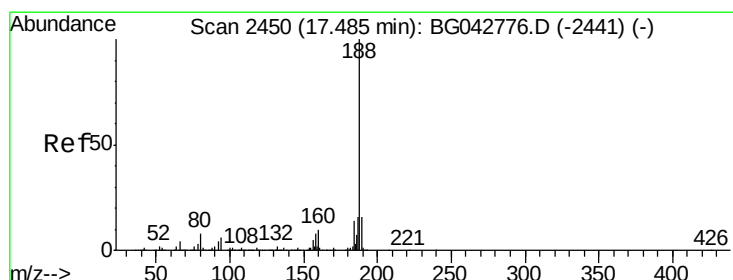
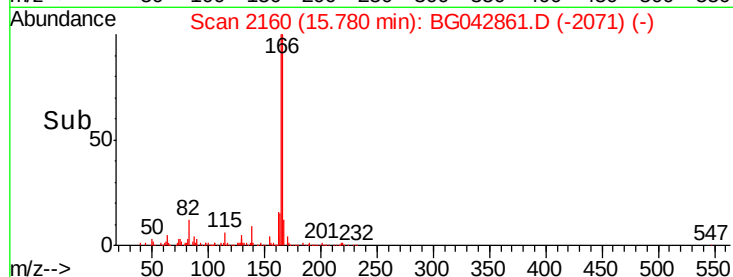
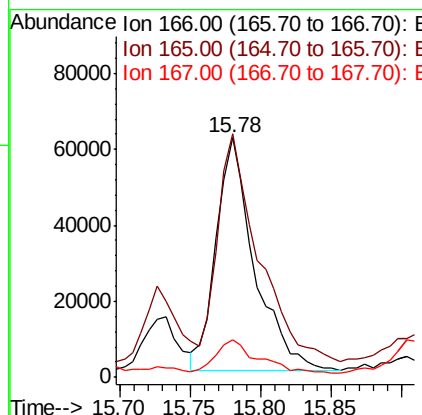
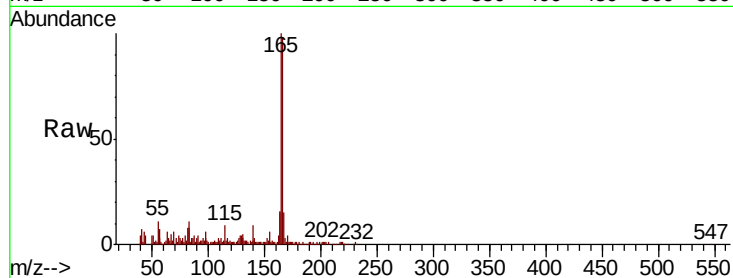
#58
 Fluorene
 Concen: 5.502 ng
 RT: 15.78 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: BG042861.D
 Acq: 16 Sep 2019 23:01

Instrument :
 BNA_G
 ClientSampleId :
 AOC-7-(5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.8	79.1	118.7
167	15.6	10.7	16.1

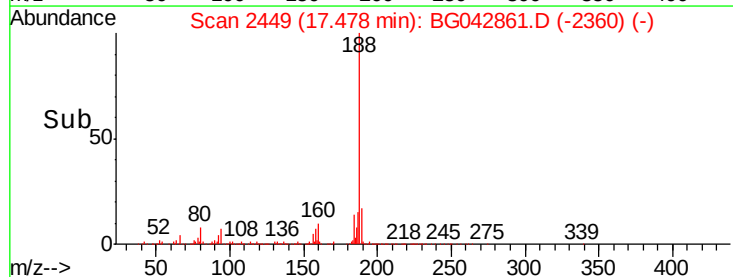
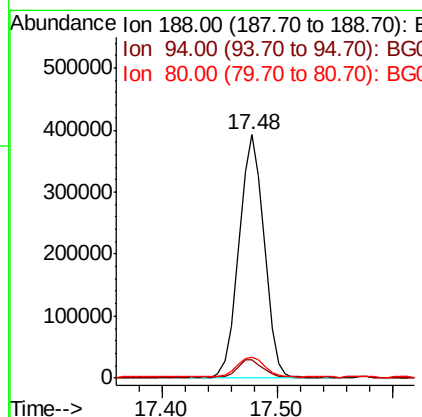
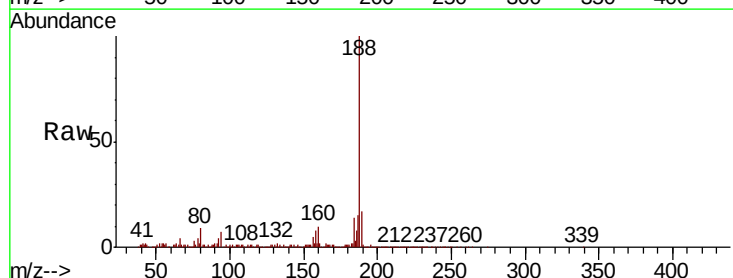
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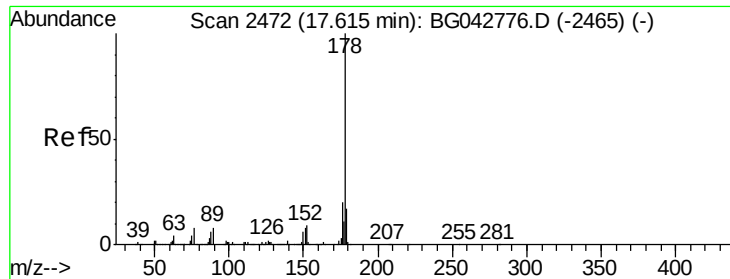
mohammad
 9/17/2019 1:26:50 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.48 min Scan# 2449
 Delta R.T. -0.01 min
 Lab File: BG042861.D
 Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.4	4.8	7.2#
80	8.7	6.6	9.8





#72

Anthracene

Concen: 4.168 ng

RT: 17.61 min Scan# 2471

Delta R.T. -0.01 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Instrument :

BNA_G

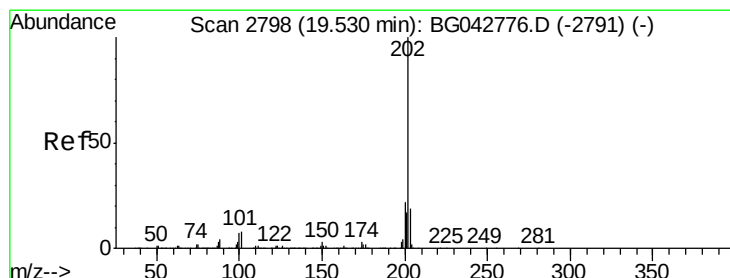
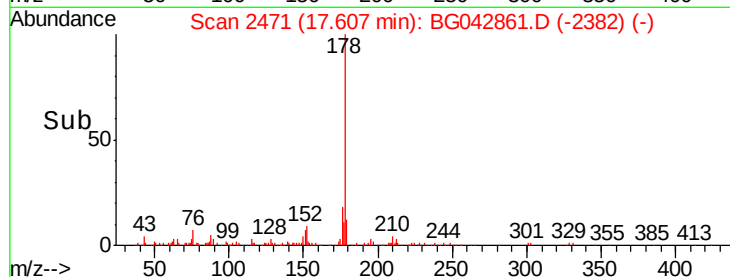
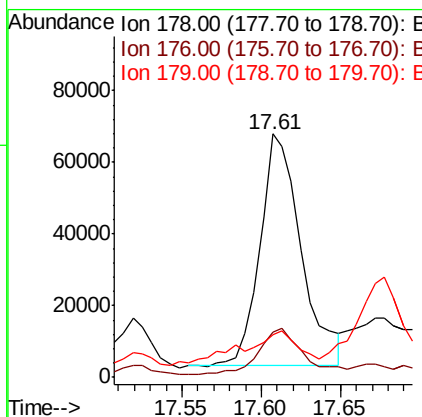
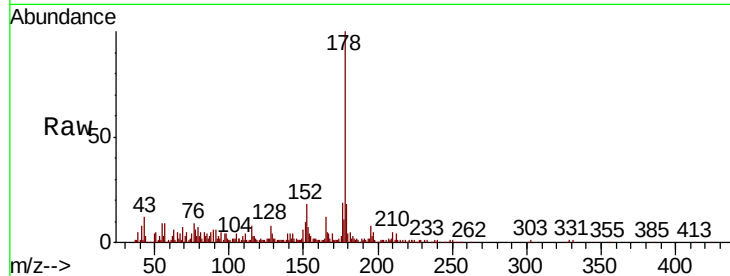
ClientSampleId :

AOC-7(-5)

Tot Ion:	178	Resp:	117385
Ion Ratio	Lower	Upper	
178	100		
176	18.8	16.2	24.4
179	17.5	13.6	20.4

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#75

Fluoranthene

Concen: 20.126 ng

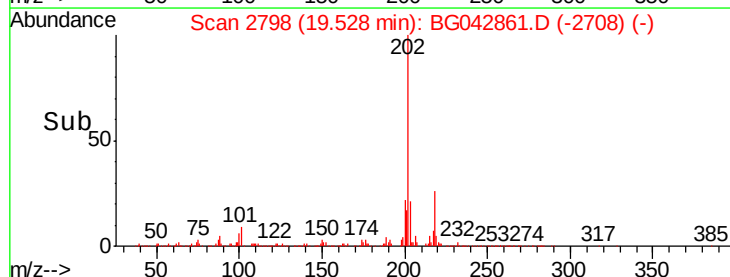
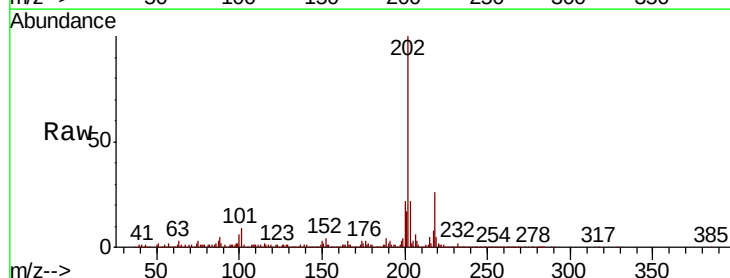
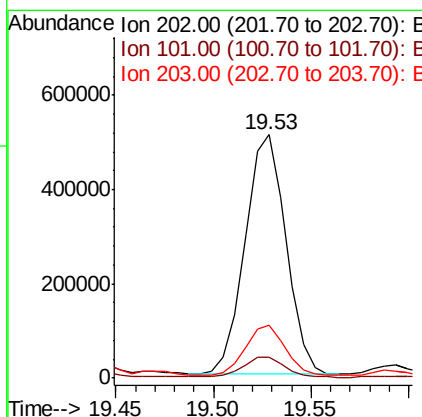
RT: 19.53 min Scan# 2798

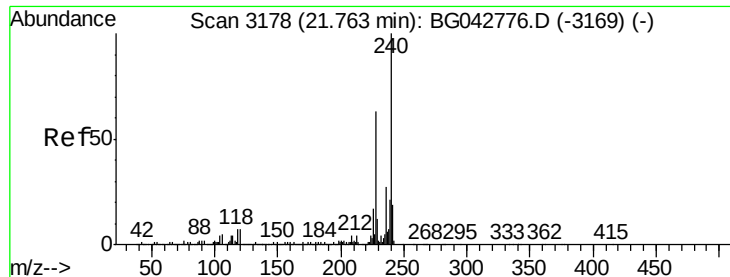
Delta R.T. -0.00 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Tgt Ion:	202	Resp:	735335
Ion Ratio	Lower	Upper	
202	100		
101	8.7	0.0	27.8
203	21.6	0.0	39.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.76 min Scan# 3178

Delta R.T. -0.00 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Instrument :

BNA_G

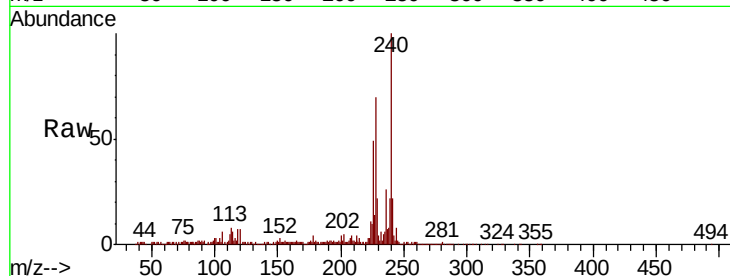
ClientSampleId :

AOC-7(-5)

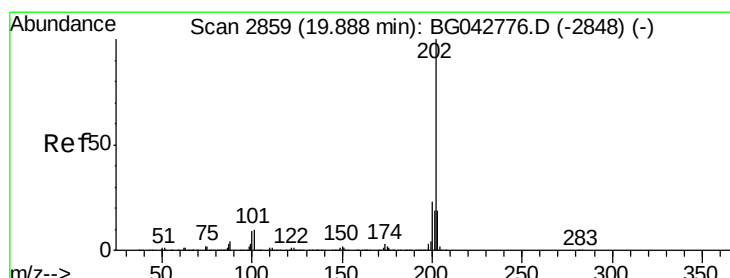
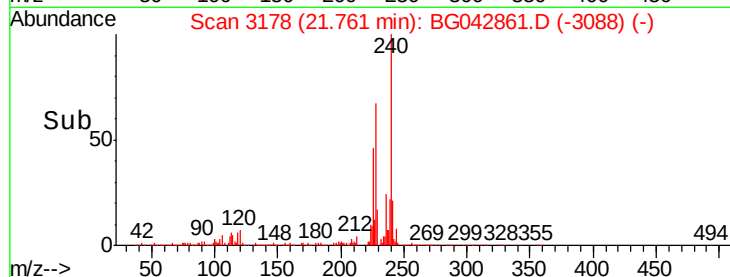
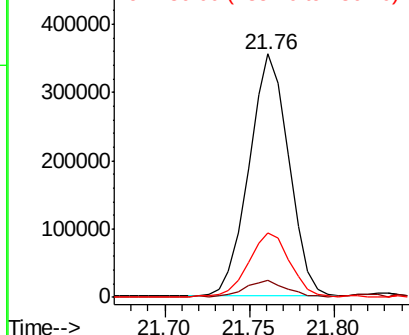
Tot Ion:	240	Resp:	578819
Ion Ratio	Lower	Upper	
240	100		
120	7.0	5.4	8.2
236	26.3	21.7	32.5

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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



#78

Pyrene

Concen: 77.679 ng m

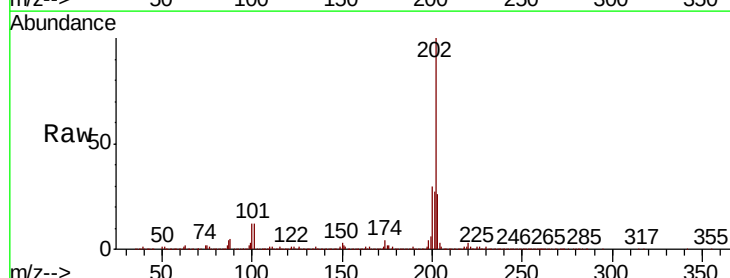
RT: 19.89 min Scan# 2860

Delta R.T. 0.00 min

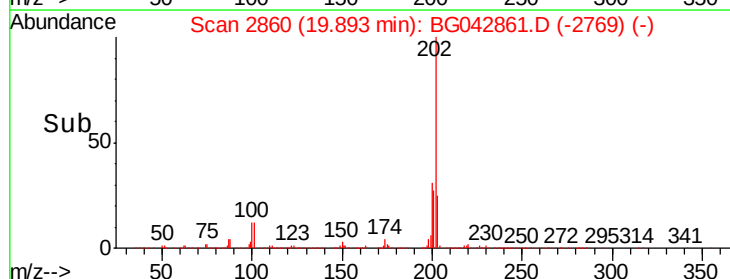
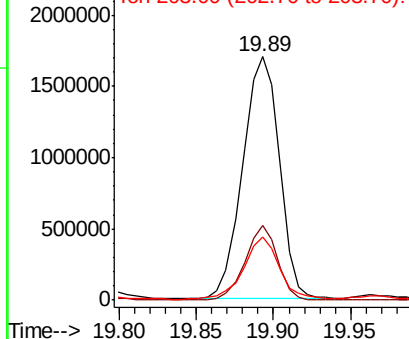
Lab File: BG042861.D

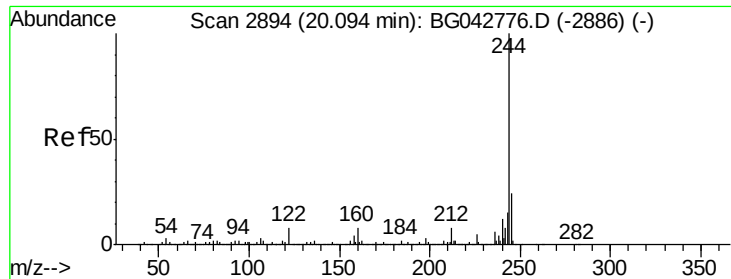
Acq: 16 Sep 2019 23:01

Tgt Ion:	202	Resp:	2814907
Ion Ratio	Lower	Upper	
202	100		
200	30.4	18.5	27.7#
203	25.9	15.3	22.9#



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





#79

Terphenyl-d14

Concen: 49.901 ng

RT: 20.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Instrument :

BNA_G

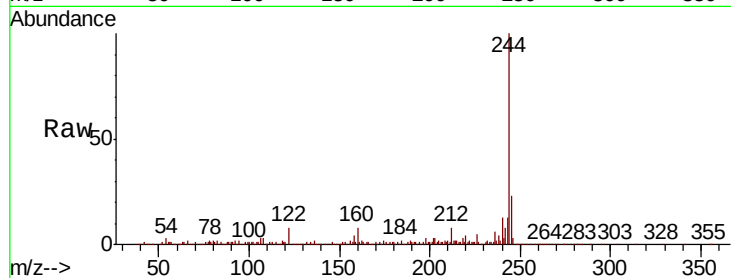
ClientSampled :

AOC-7(-5)

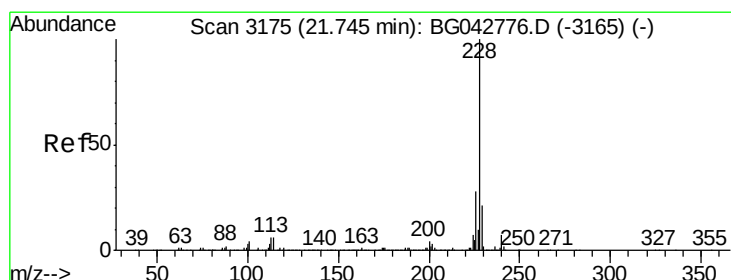
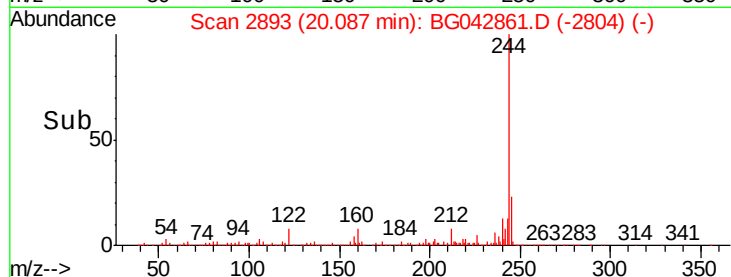
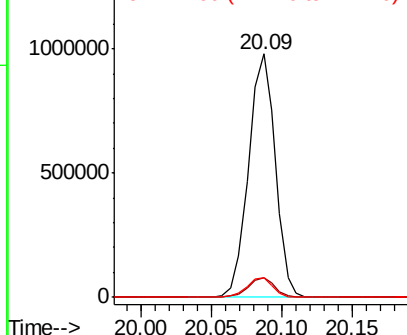
Tot Ion:	244	Resp:	1303251
Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.6	10.0
122	7.8	6.2	9.4

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 40.200 ng

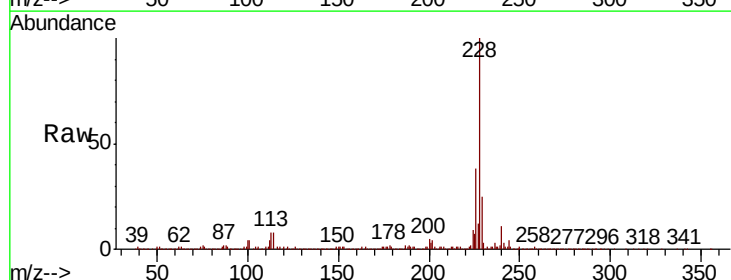
RT: 21.74 min Scan# 3175

Delta R.T. -0.00 min

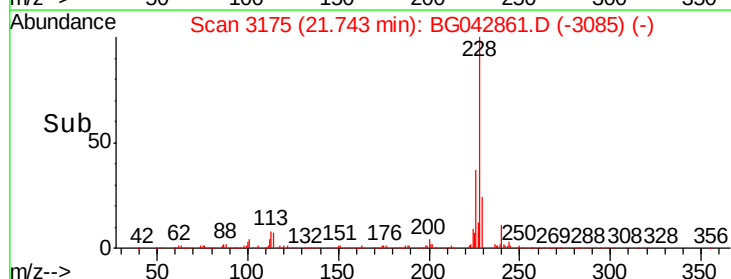
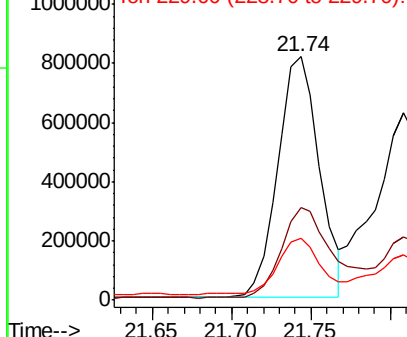
Lab File: BG042861.D

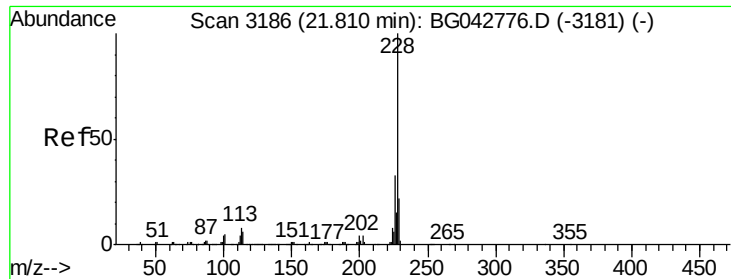
Acq: 16 Sep 2019 23:01

Tgt Ion:	228	Resp:	1479449
Ion	Ratio	Lower	Upper
228	100		
226	38.1	22.5	33.7#
229	25.4	17.2	25.8



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





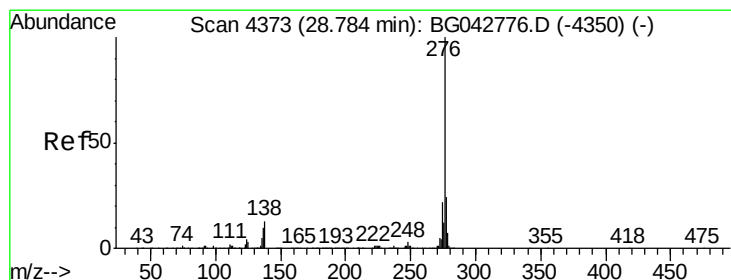
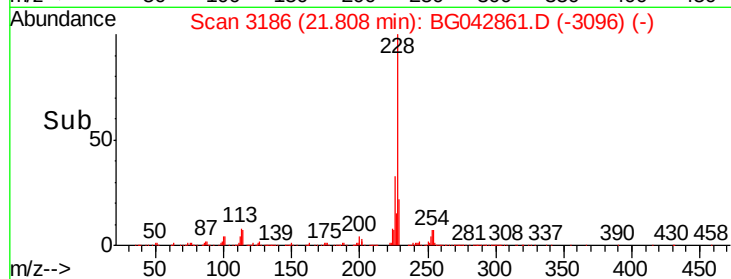
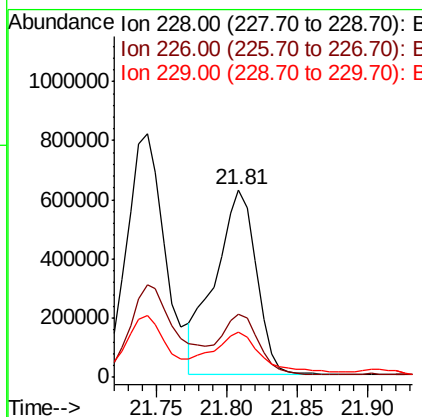
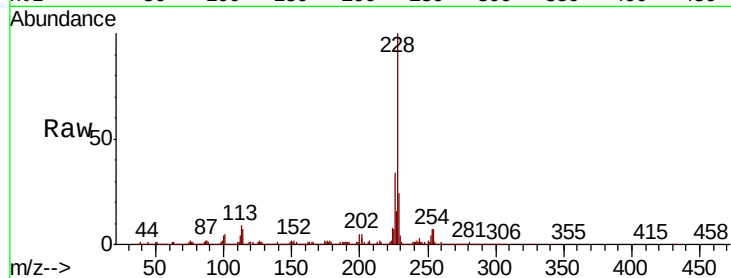
#83
Chrysene
Concen: 36.408 ng
RT: 21.81 min Scan# 3186
Delta R.T. -0.00 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampled :
AOC-7(-5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.9	26.0	39.0
229	24.0	17.1	25.7

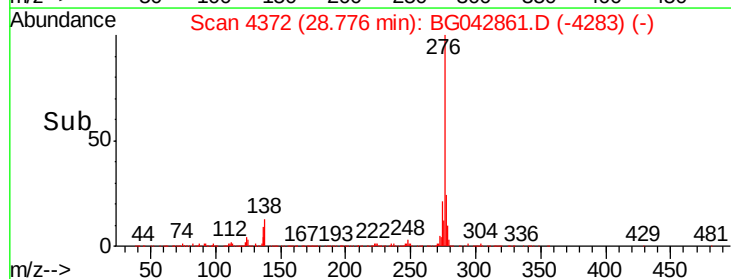
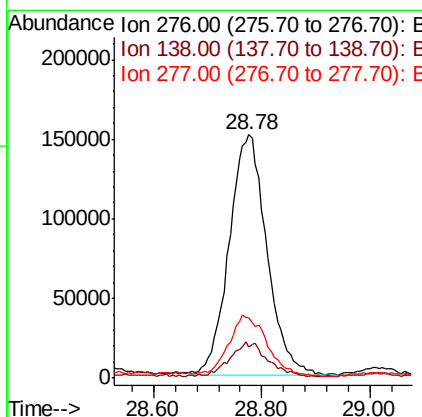
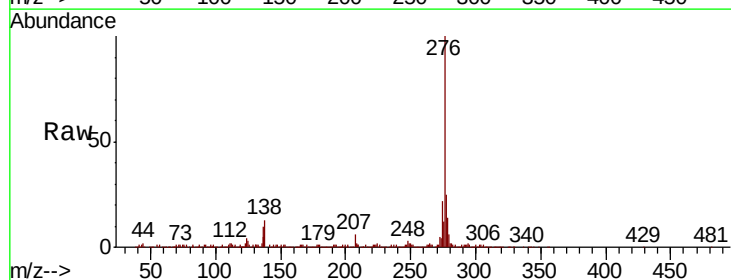
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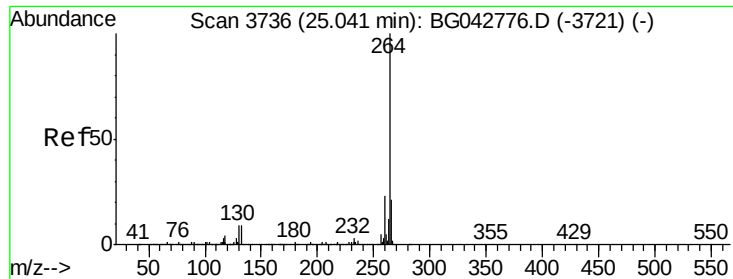
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 16.917 ng
RT: 28.78 min Scan# 4372
Delta R.T. -0.01 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion	Ratio	Lower	Upper
276	100		
138	13.7	9.3	13.9
277	26.1	17.2	25.8#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 25.04 min Scan# 3736

Delta R.T. -0.00 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Instrument :

BNA_G

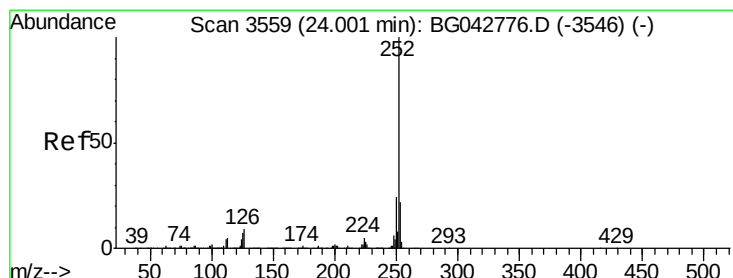
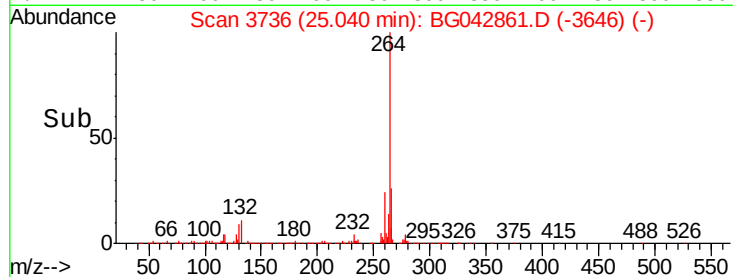
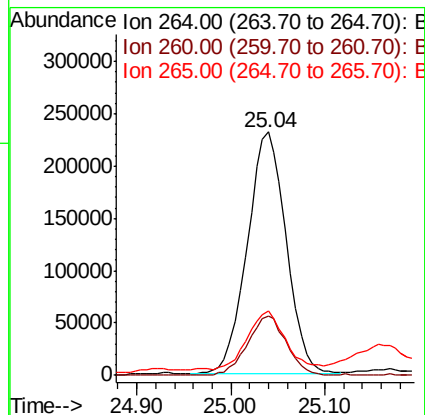
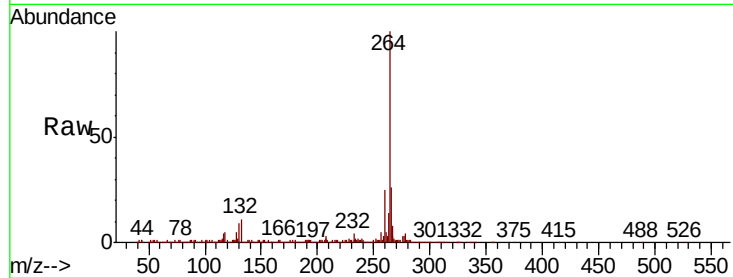
ClientSampleId :

AOC-7(-5)

Tot Ion:	264	Resp:	657773
Ion Ratio		Lower	Upper
264	100		
260	24.6	18.2	27.2
265	26.5	16.9	25.3#

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#88

Benzo(b)fluoranthene

Concen: 36.310 ng

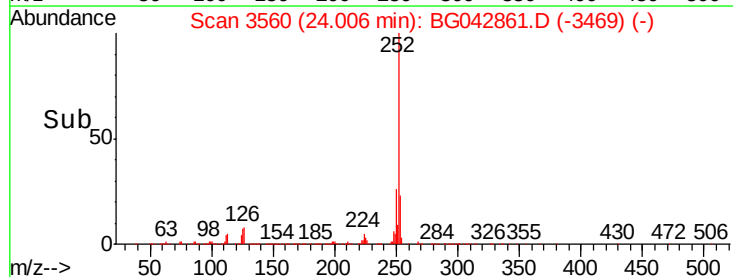
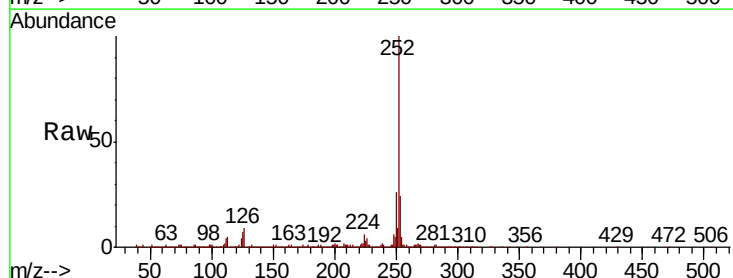
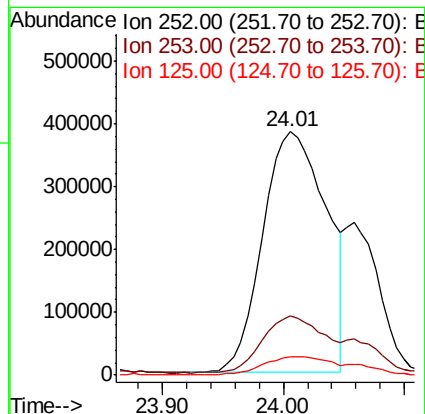
RT: 24.01 min Scan# 3560

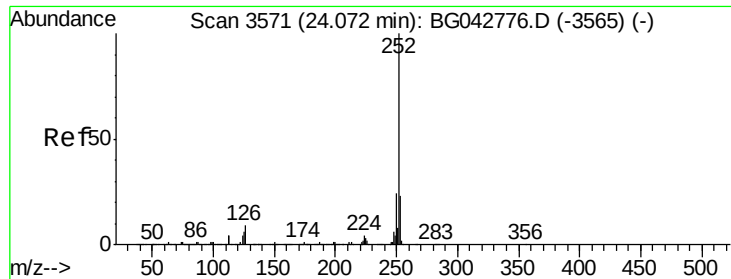
Delta R.T. 0.00 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Tgt Ion:	252	Resp:	1402390
Ion Ratio		Lower	Upper
252	100		
253	24.3	17.9	26.9
125	7.5	5.6	8.4





#89

Benzo(k)fluoranthene

Concen: 12.566 ng m

RT: 24.06 min Scan# 3569

Delta R.T. -0.01 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Instrument :

BNA_G

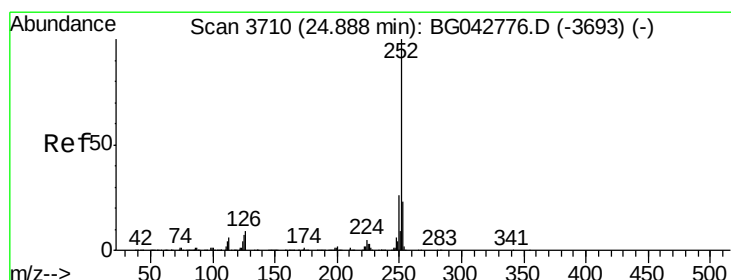
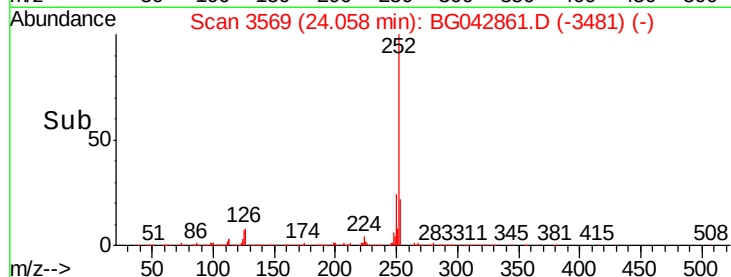
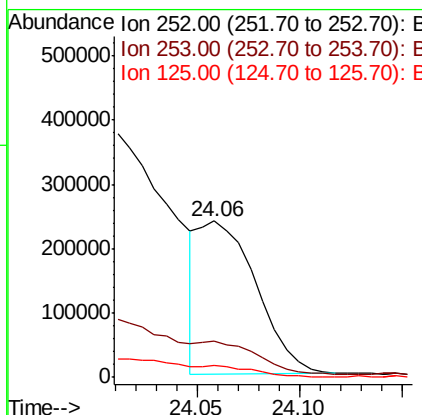
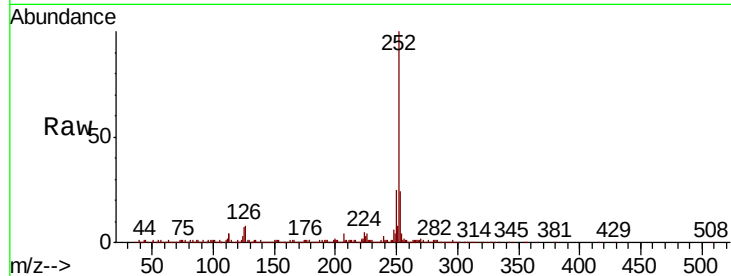
ClientSampled :

AOC-7(-5)

Tot Ion:	252	Resp:	458464
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.2	27.4
125	7.3	5.3	7.9

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#90

Benzo(a)pyrene

Concen: 48.489 ng

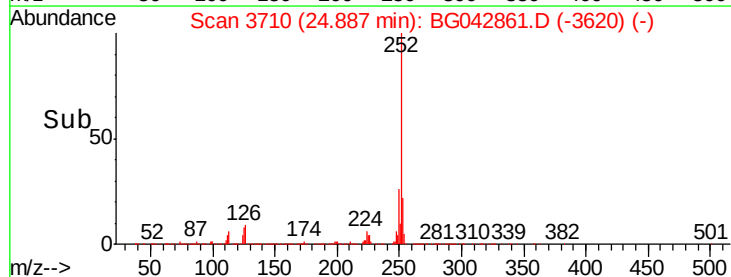
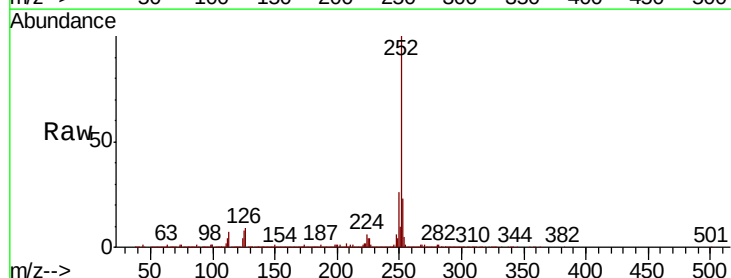
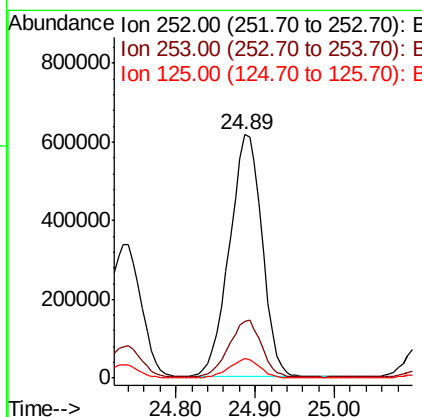
RT: 24.89 min Scan# 3710

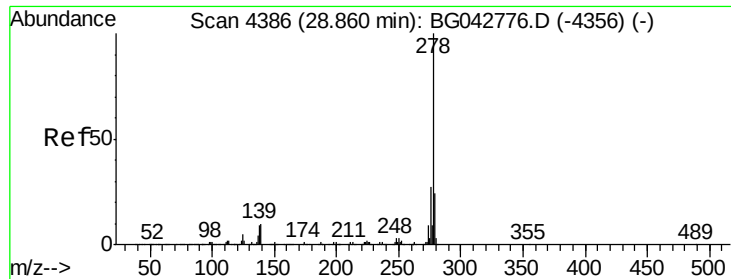
Delta R.T. -0.00 min

Lab File: BG042861.D

Acq: 16 Sep 2019 23:01

Tgt Ion:	252	Resp:	1753598
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.1	27.1
125	7.9	5.7	8.5





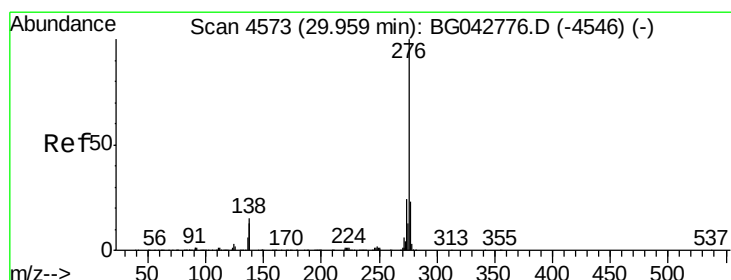
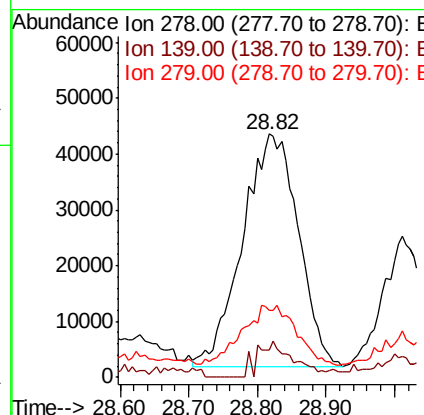
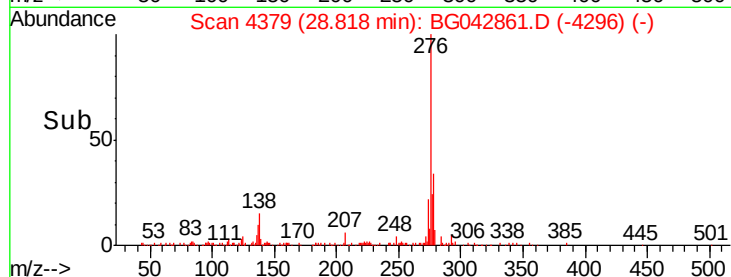
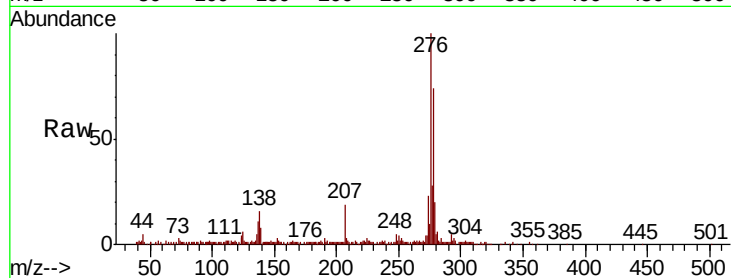
#91
Dibenzo(a,h)anthracene
Concen: 6.622 ng
RT: 28.82 min Scan# 4379
Delta R.T. -0.04 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Instrument :
BNA_G
ClientSampleId :
AOC-7(-5)

Tot Ion:	278	Resp:	235560
Ion Ratio	Lower	Upper	
278	100		
139	11.3	8.2	12.2
279	27.4	19.4	29.2

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#92
Benzo(g,h,i)perylene
Concen: 22.993 ng
RT: 29.94 min Scan# 4570
Delta R.T. -0.02 min
Lab File: BG042861.D
Acq: 16 Sep 2019 23:01

Tgt Ion:	276	Resp:	797727
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.4	27.6
138	15.3	11.8	17.8

