

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082219\
 Data File : BG042420.D
 Acq On : 23 Aug 2019 3:19
 Operator : HP/JU
 Sample : K4089-03 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 2

Instrument :
 BNA_G
 ClientSampleId :
 OK-01-082119

Manual Integrations
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 8/23/2019 2:54:27 PM

Quant Time: Aug 23 14:13:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.00	152	107921	40.00	ng	0.00
21) Naphthalene-d8	10.82	136	491733	40.00	ng	0.00
39) Acenaphthene-d10	14.66	164	253536	40.00	ng	0.00
64) Phenanthrene-d10	17.41	188	486680	40.00	ng	0.00
76) Chrysene-d12	21.69	240	495875	40.00	ng	0.00
87) Perylene-d12	24.94	264	599010	40.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	39644	14.88	ng	0.00
7) Phenol-d6	7.17	99	58226	16.18	ng	0.00
23) Nitrobenzene-d5	9.18	82	27424	7.71	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	24789	13.76	ng	0.00
45) 2-Fluorobiphenyl	13.29	172	88444	11.80	ng	0.00
79) Terphenyl-d14	20.03	244	139242	12.14	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
52) Acenaphthene	14.73	154	32294	5.003	ng	98
58) Fluorene	15.71	166	30266	3.465	ng	98
71) Phenanthrene	17.46	178	332699	27.525	ng	98
72) Anthracene	17.55	178	76772	6.362	ng	99
73) Carbazole	17.82	167	40753	3.789	ng	97
75) Fluoranthene	19.47	202	820350	55.612	ng	99
78) Pyrene	19.83	202	764889	50.319	ng	99
81) Benzo(a)anthracene	21.67	228	353593	23.444	ng	99
83) Chrysene	21.74	228	342413	23.540	ng	98
86) Indeno(1,2,3-cd)pyrene	28.63	276	224229	11.343	ng	# 96
88) Benzo(b)fluoranthene	23.90	252	451534	27.423	ng	99
89) Benzo(k)fluoranthene	23.97	252	154703m	9.775	ng	
90) Benzo(a)pyrene	24.78	252	339357	21.719	ng	99
91) Dibenzo(a,h)anthracene	28.67	278	50899	3.217	ng	# 86
92) Benzo(a,h,i)perylene	29.80	276	237419	15.005	ng	96

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

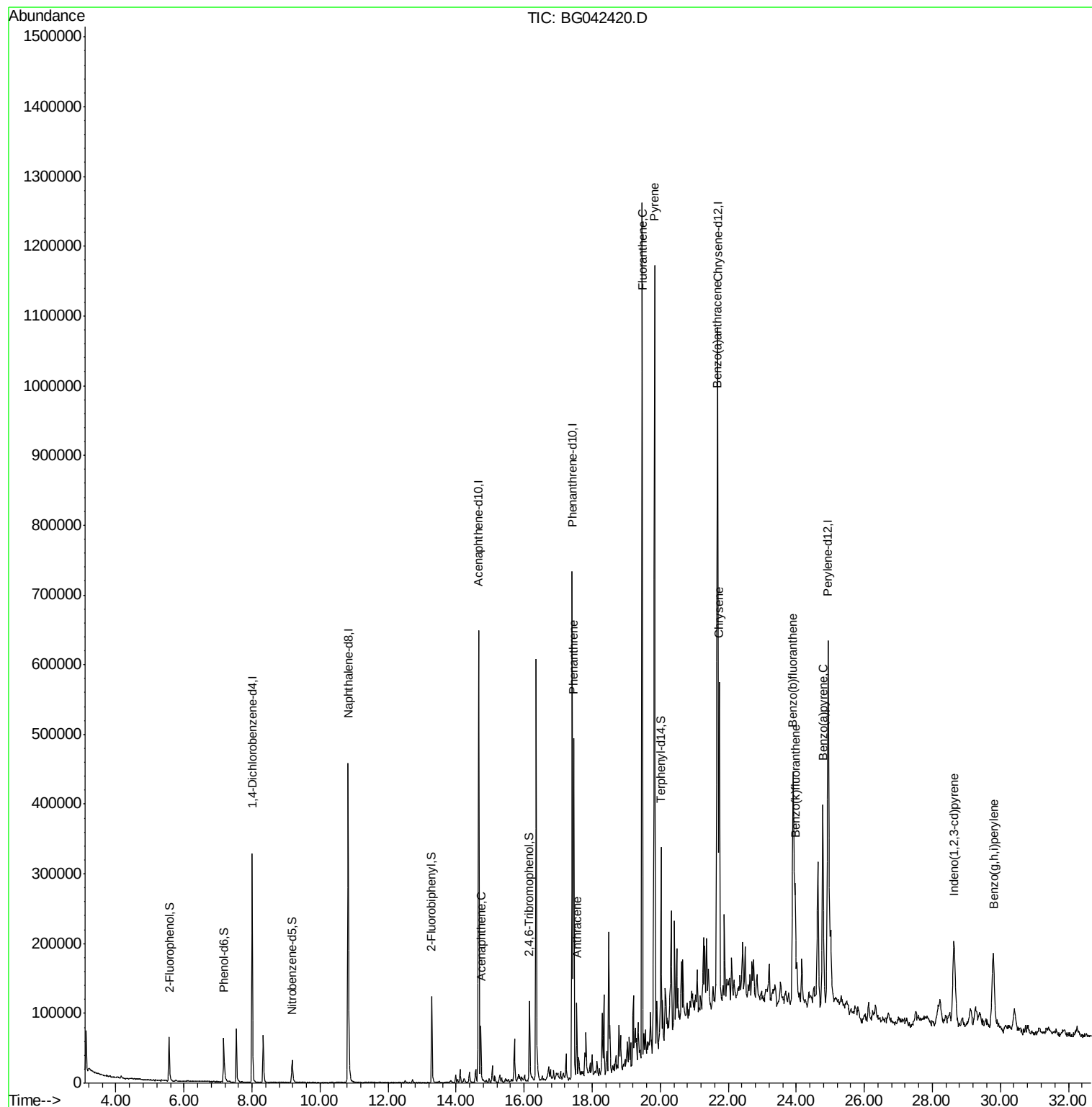
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082219\
Data File : BG042420.D
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Sample : K4089-03 10X
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ALS Vial : 17 Sample Multiplier: 2

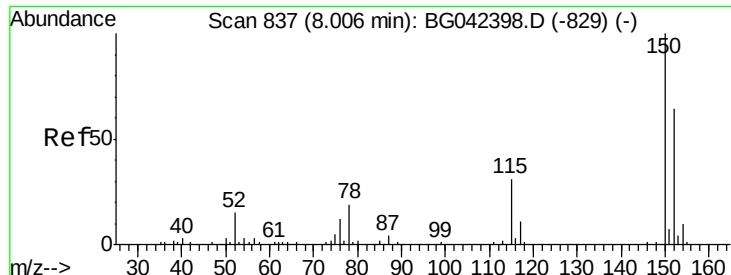
Instrument :
BNA_G
ClientSampleId :
OK-01-082119

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Quant Time: Aug 23 14:13:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

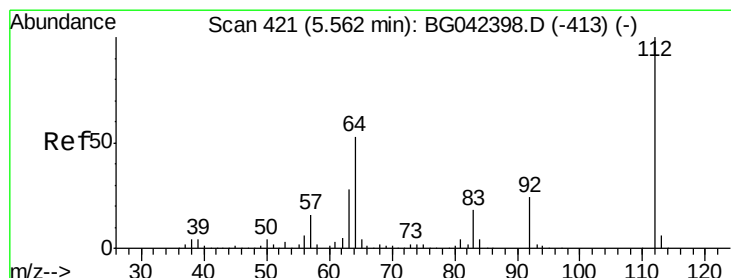
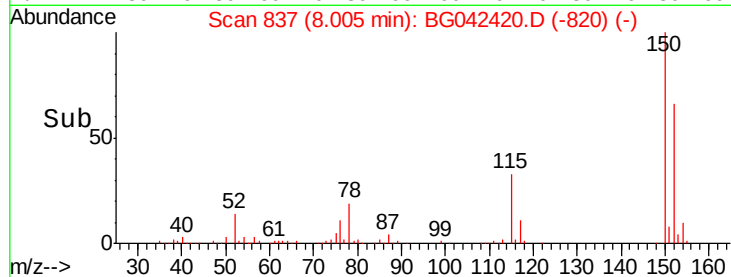
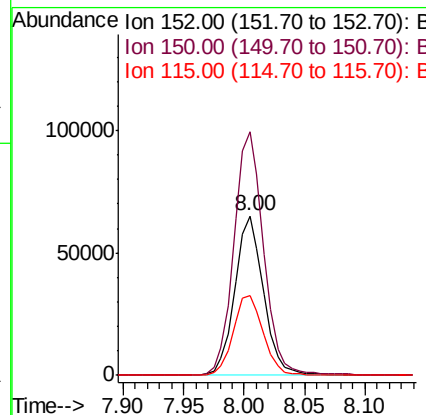
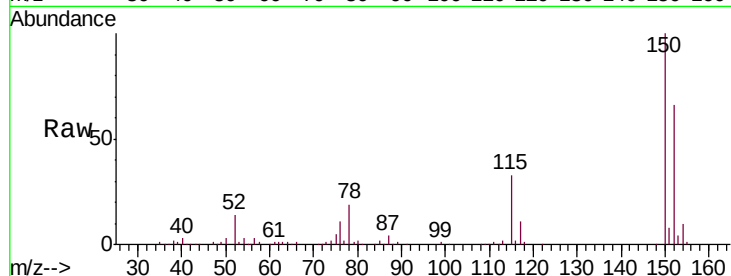
1,4-Dichlorobenzene-d4
Concen: 40.000 ng
RT: 8.00 min Scan# 837
Delta R.T. -0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Instrument :
BNA_G
ClientSampled :
OK-01-082119

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.5	125.4	188.0
115	50.3	38.5	57.7

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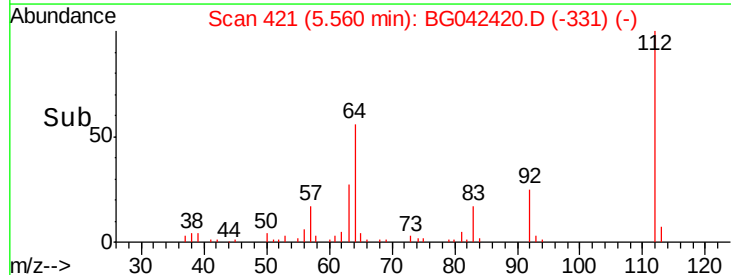
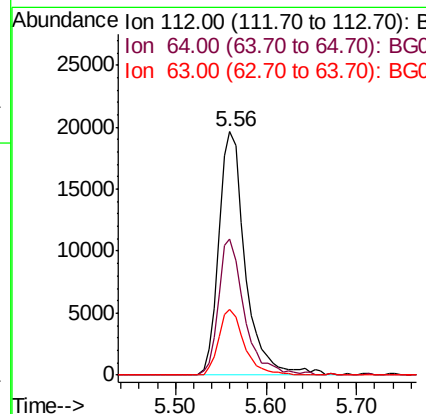
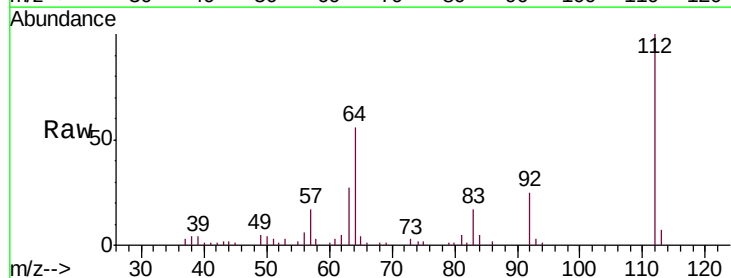
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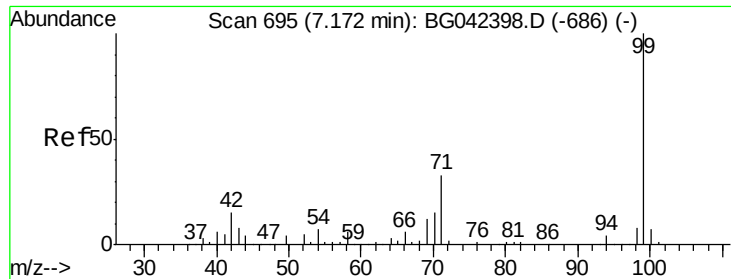


#5

2-Fluorophenol
Concen: 14.880 ng
RT: 5.56 min Scan# 421
Delta R.T. -0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	42.8	64.2
63	26.9	22.7	34.1





#7

Phenol-d6

Concen: 16.179 ng

RT: 7.17 min Scan# 695

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

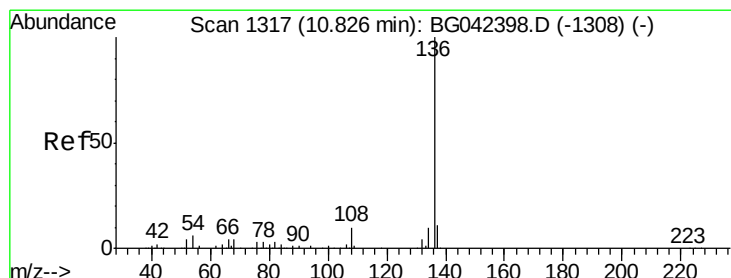
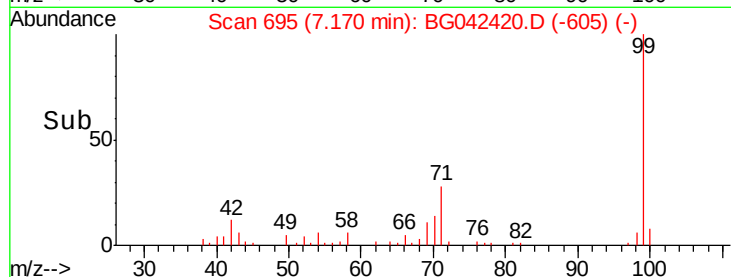
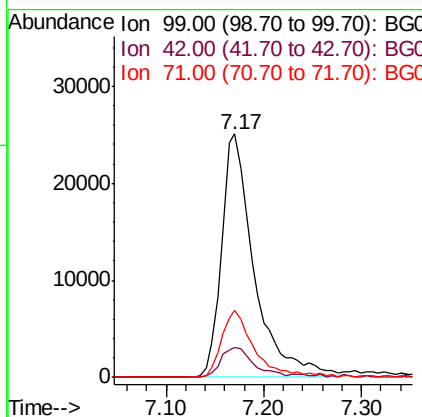
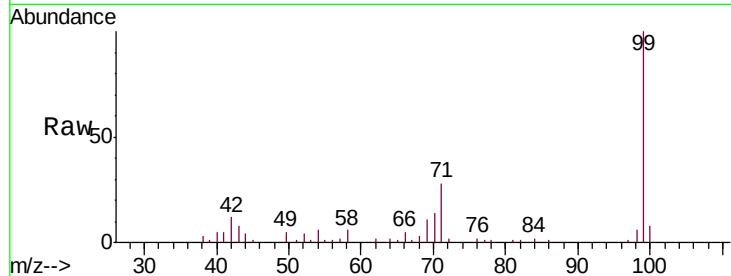
ClientSampleId :

OK-01-082119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		58226		
42	12.1	12.0	18.0		
71	27.6	26.3	39.5		

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#21

Naphthalene-d8

Concen: 40.000 ng

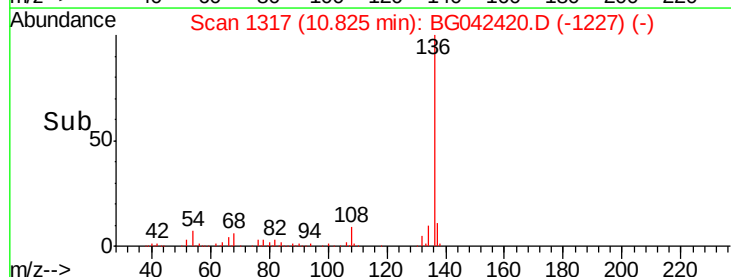
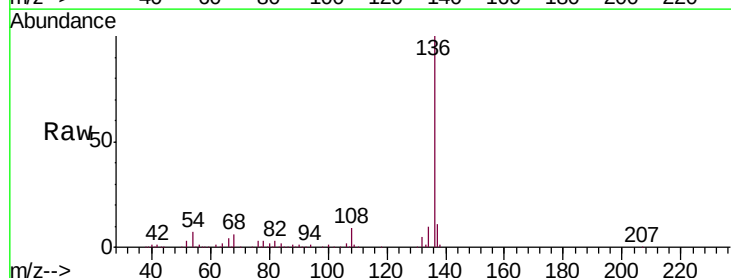
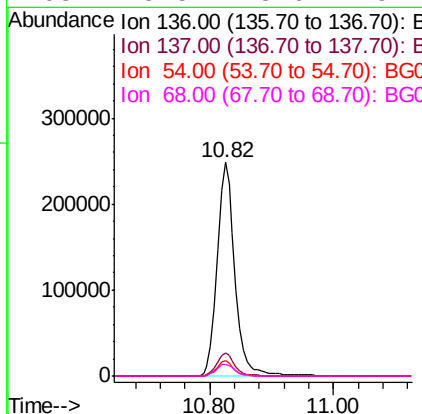
RT: 10.82 min Scan# 1317

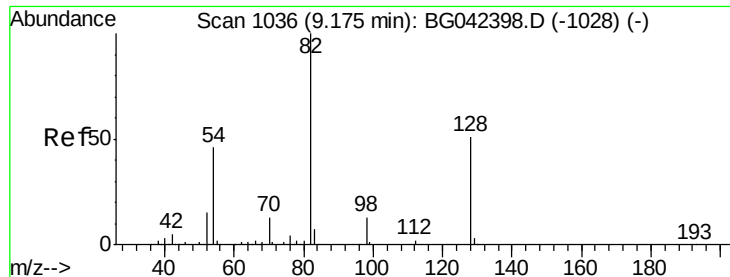
Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		491733		
137	11.1	8.7	13.1		
54	7.1	4.9	7.3		
68	5.5	3.6	5.4		





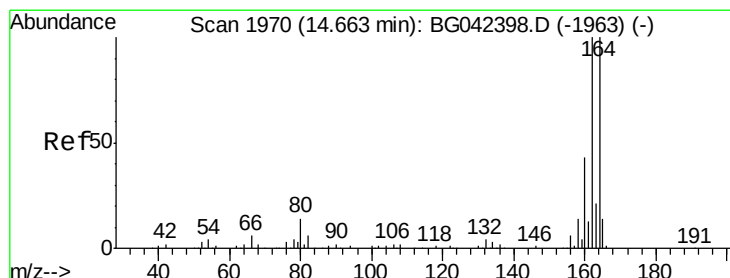
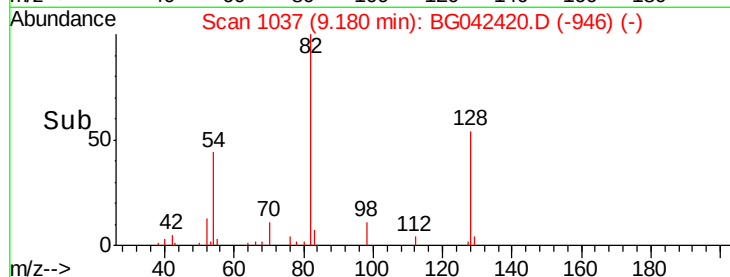
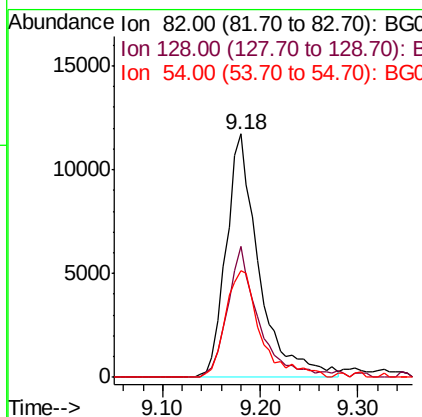
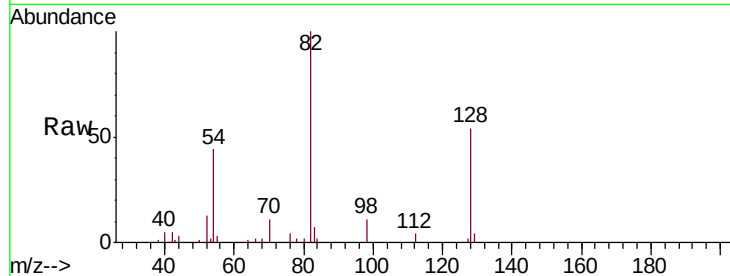
#23
Nitrobenzene-d5
Concen: 7.708 ng
RT: 9.18 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Instrument :
BNA_G
ClientSampleId :
OK-01-082119

Tot Ion	82	Resp	27424
Ion Ratio	100	Lower	Upper
128	53.7	40.7	61.1
54	43.9	36.3	54.5

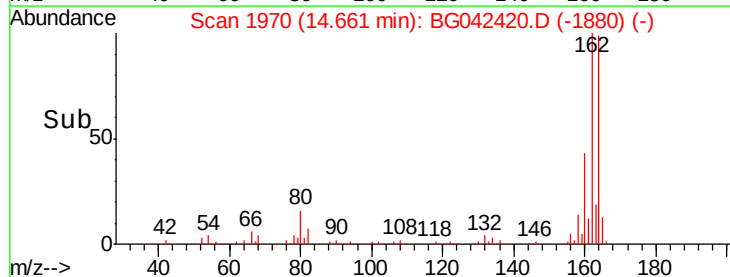
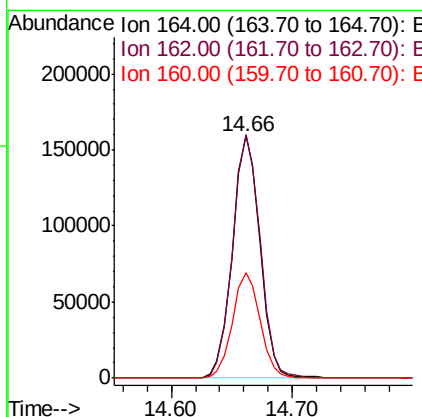
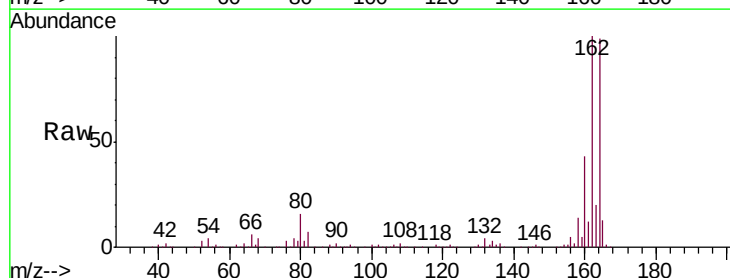
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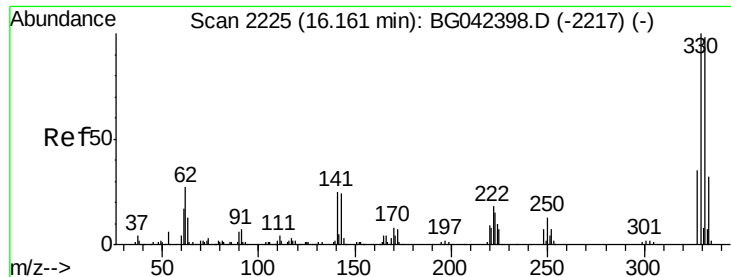
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#39
Acenaphthene-d10
Concen: 40.000 ng
RT: 14.66 min Scan# 1970
Delta R.T. -0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	164	Resp	253536
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
162	100.6	79.9	119.9
160	43.5	34.3	51.5





#42

2,4,6-Tribromophenol

Concen: 13.758 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

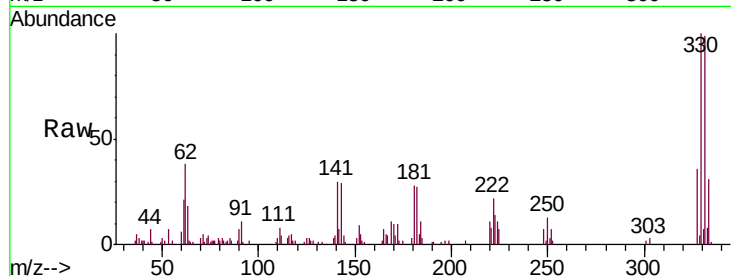
ClientSampleId :

OK-01-082119

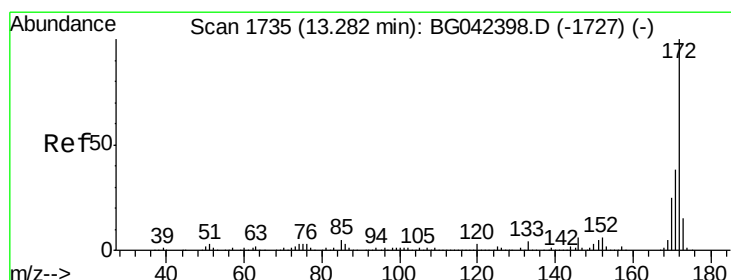
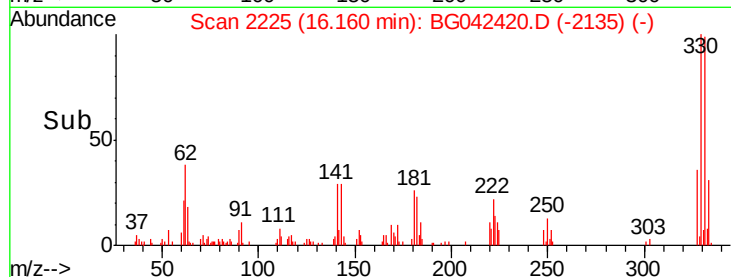
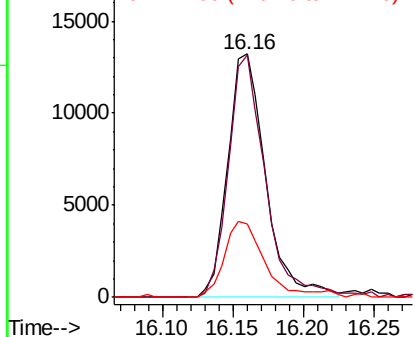
Tot Ion:	330	Resp:	24789
Ion Ratio	Lower	Upper	
330	100		
332	97.7	77.4	116.0
141	31.7	21.4	32.0

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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: 11.800 ng

RT: 13.29 min Scan# 1736

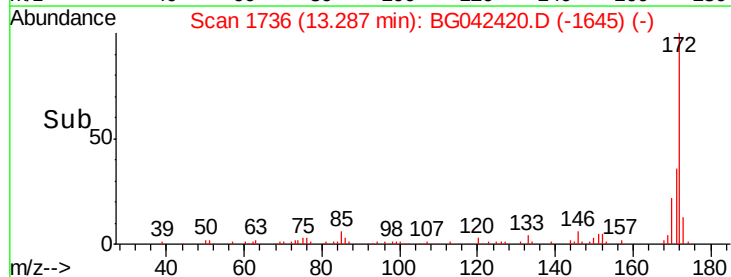
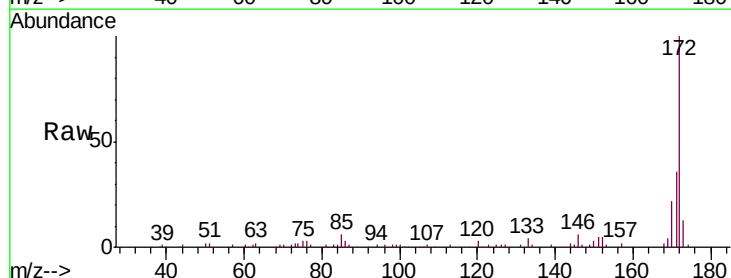
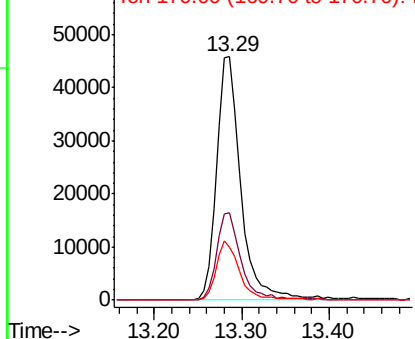
Delta R.T. 0.00 min

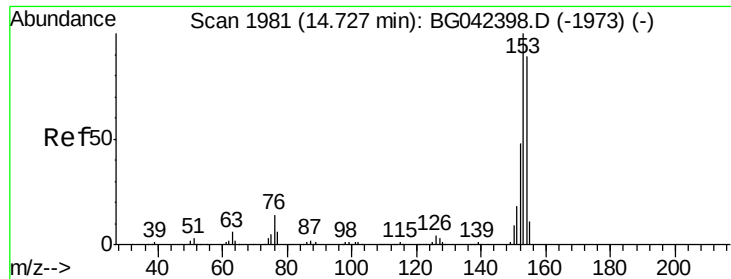
Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion:	172	Resp:	88444
Ion Ratio	Lower	Upper	
172	100		
171	36.1	30.5	45.7
170	21.6	20.2	30.2

Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#52

Acenaphthene

Concen: 5.003 ng

RT: 14.73 min Scan# 1981

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

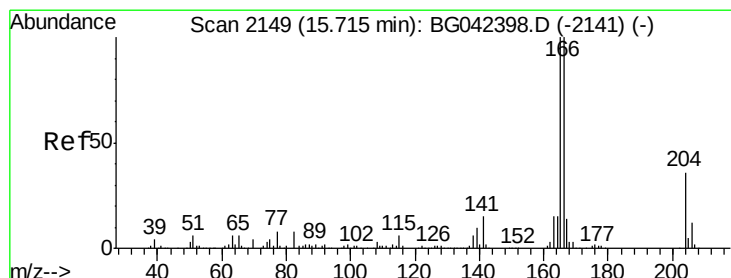
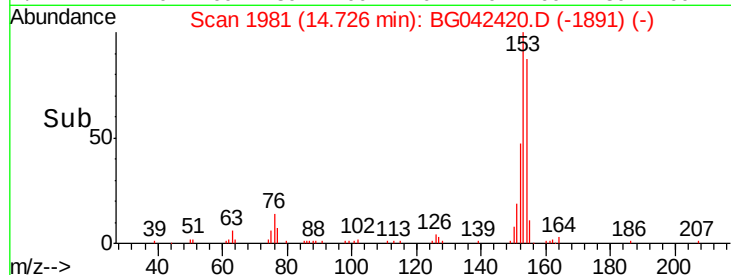
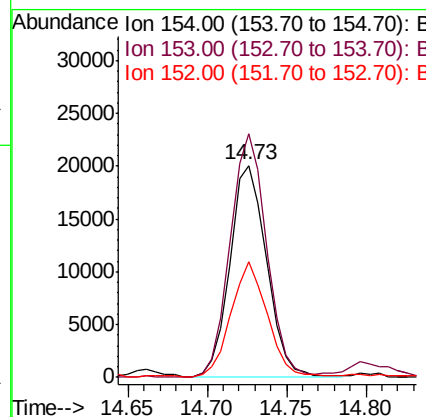
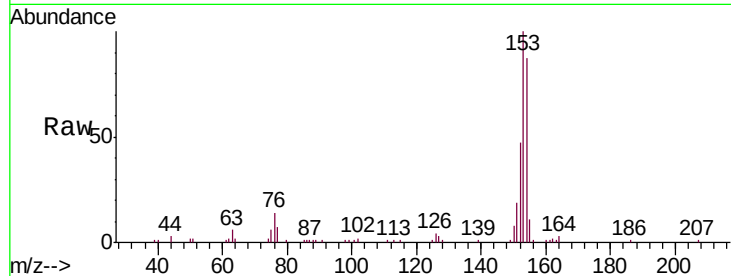
ClientSampleId :

OK-01-082119

Tot Ion:	154	Resp:	32294
Ion Ratio	Lower	Upper	
154	100		
153	114.9	90.2	135.4
152	54.5	43.2	64.8

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#58

Fluorene

Concen: 3.465 ng

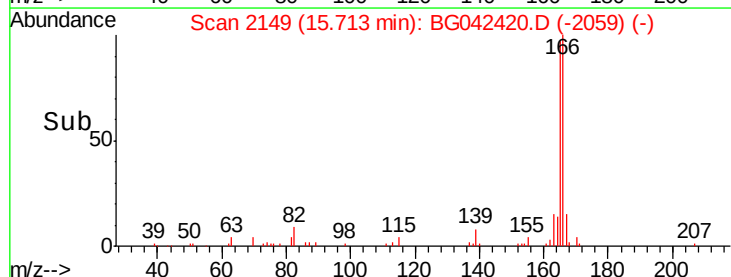
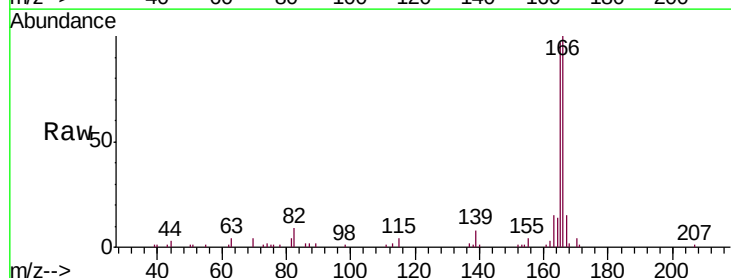
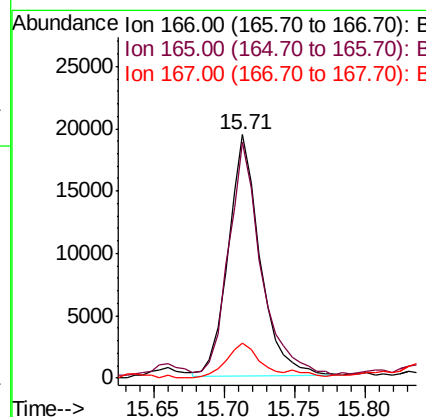
RT: 15.71 min Scan# 2149

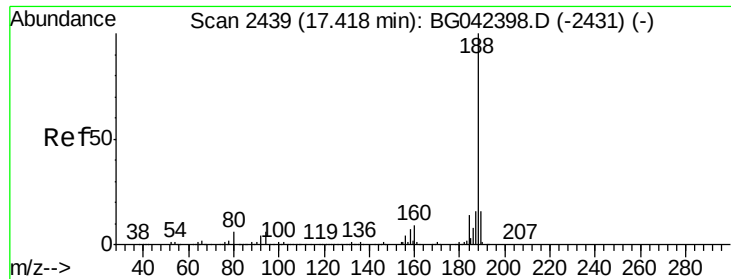
Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion:	166	Resp:	30266
Ion Ratio	Lower	Upper	
166	100		
165	97.1	79.7	119.5
167	14.5	10.9	16.3





#64

Phenanthrene-d10

Concen: 40.000 ng

RT: 17.41 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

ClientSampleId :

OK-01-082119

Tot Ion:188 Resp: 486680

Ion Ratio Lower Upper

188 100

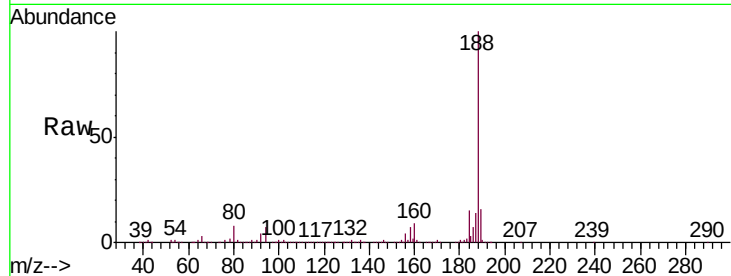
94 7.1 4.5 6.7#

80 7.7 4.9 7.3#

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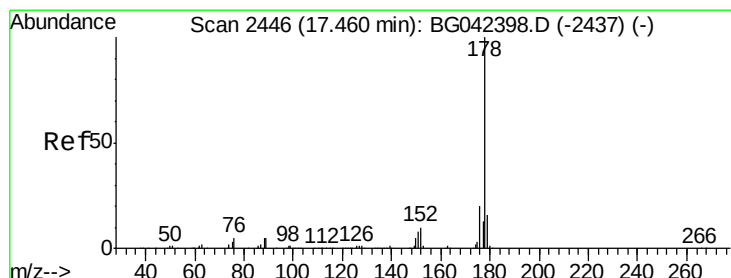
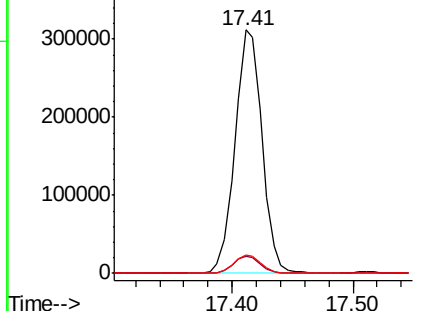
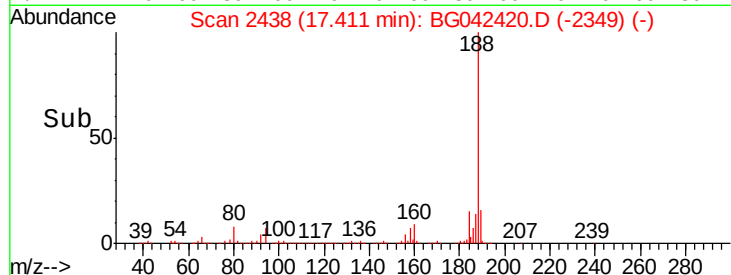
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#71

Phenanthrene

Concen: 27.525 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

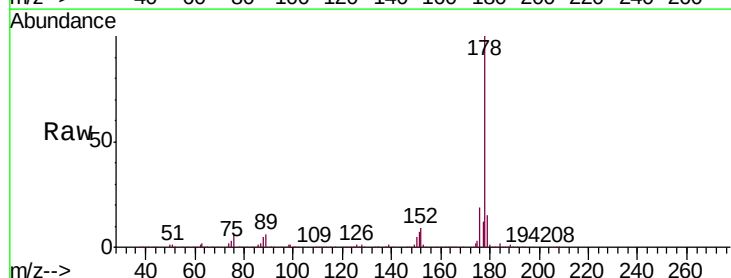
Tgt Ion:178 Resp: 332699

Ion Ratio Lower Upper

178 100

176 19.0 15.9 23.9

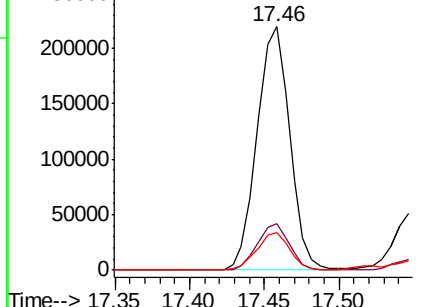
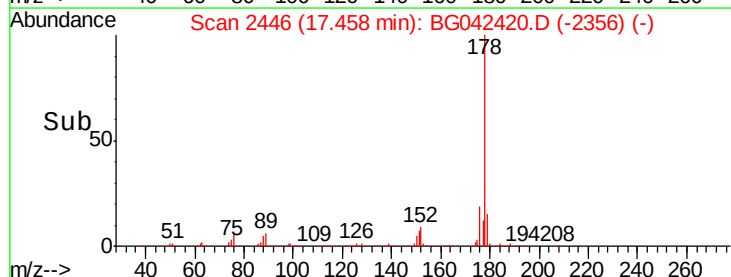
179 15.4 12.7 19.1

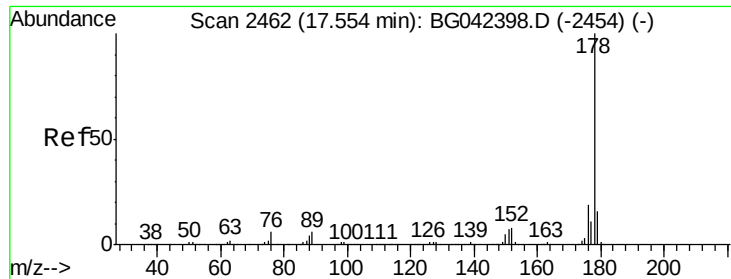


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 6.362 ng

RT: 17.55 min Scan# 2461

Delta R.T. -0.01 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

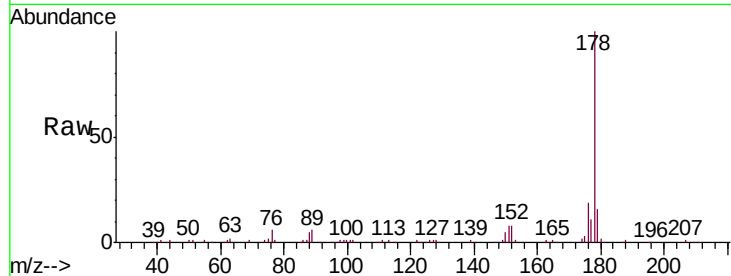
ClientSampleId :

OK-01-082119

Tot Ion:	178	Resp:	76772
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.5	23.3
179	16.2	12.9	19.3

Manual Integrations
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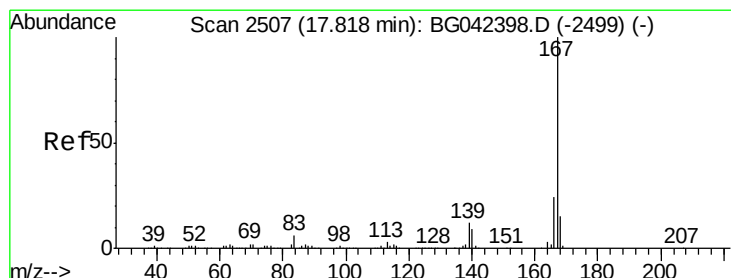
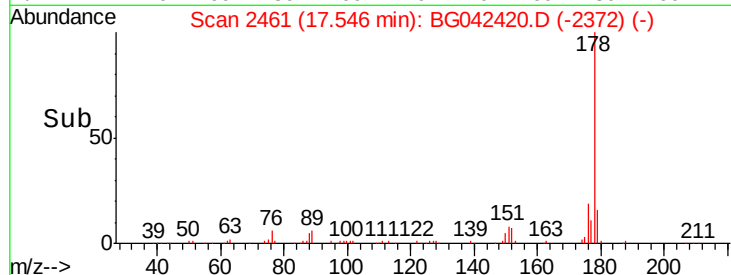
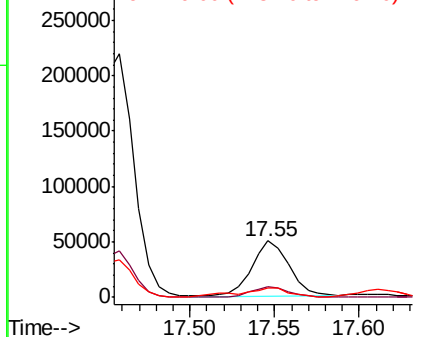
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.789 ng

RT: 17.82 min Scan# 2507

Delta R.T. -0.00 min

Lab File: BG042420.D

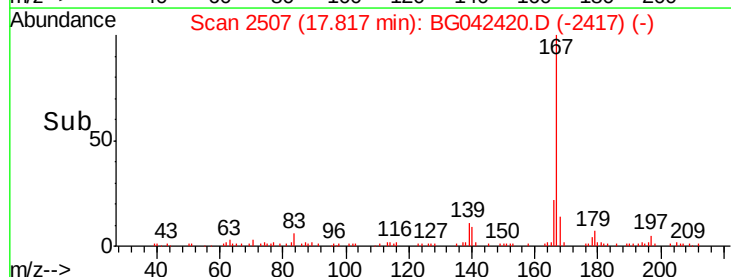
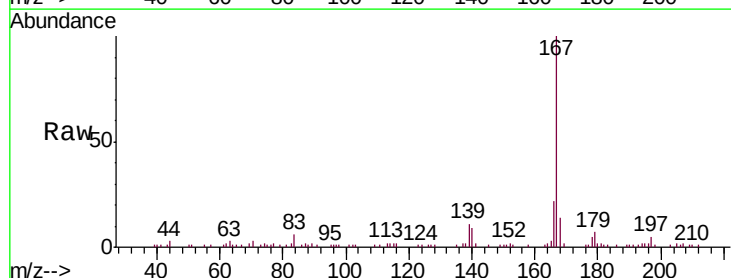
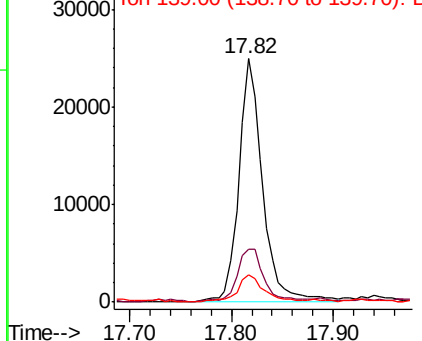
Acq: 23 Aug 2019 3:19

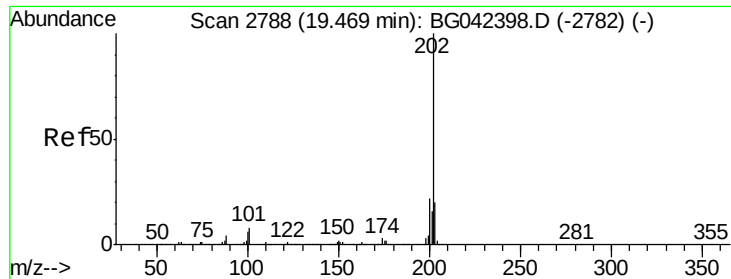
Tgt Ion:	167	Resp:	40753
Ion Ratio	Lower	Upper	
167	100		
166	21.9	18.9	28.3
139	11.3	9.8	14.6

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: 55.612 ng

RT: 19.47 min Scan# 2788

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

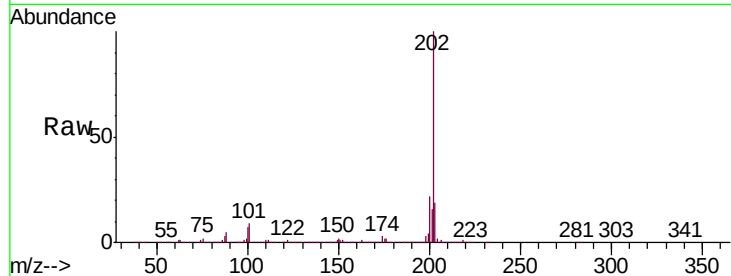
ClientSampleId :

OK-01-082119

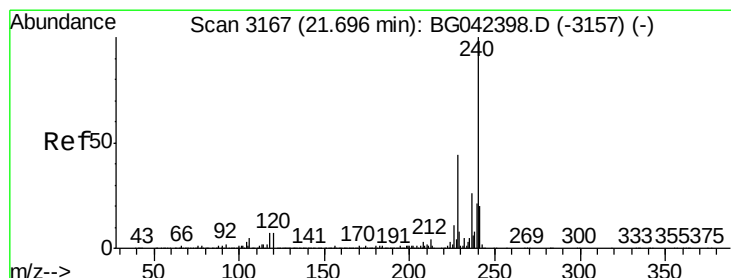
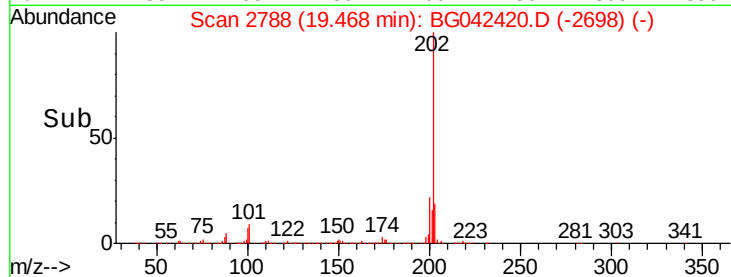
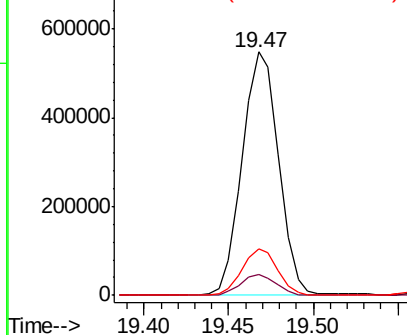
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	8.7	0.0	28.3
203	19.3	0.0	39.6

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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: 40.000 ng

RT: 21.69 min Scan# 3166

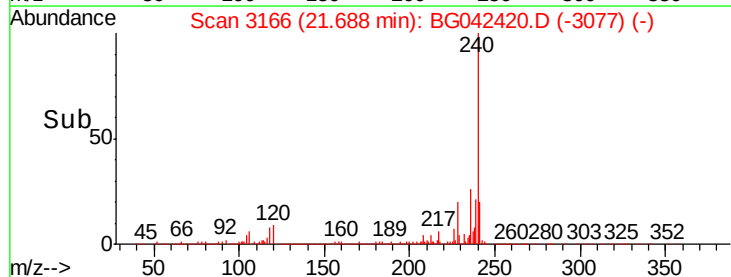
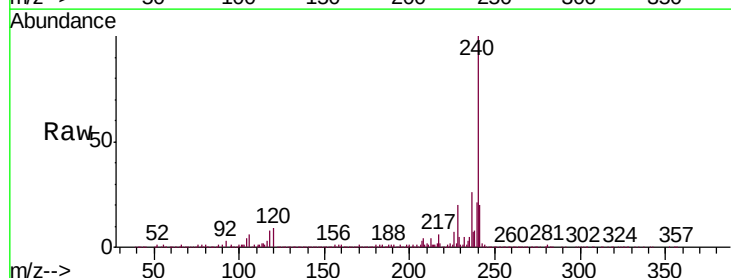
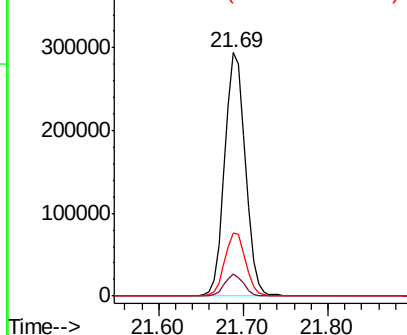
Delta R.T. -0.01 min

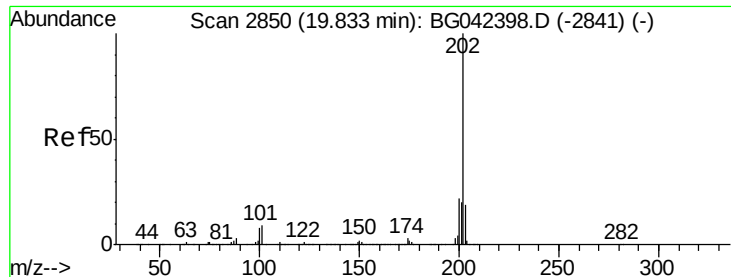
Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	8.9	5.7	8.5#
236	25.9	21.0	31.4

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

Pvrene

Concen: 50.319 ng

RT: 19.83 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

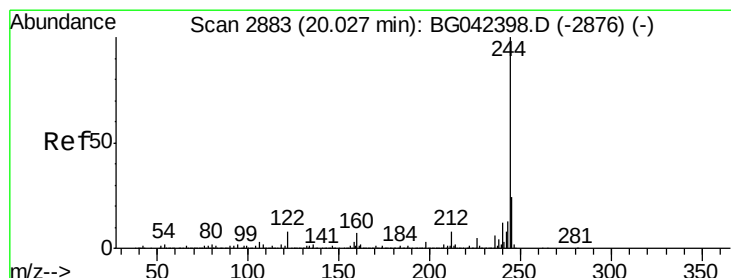
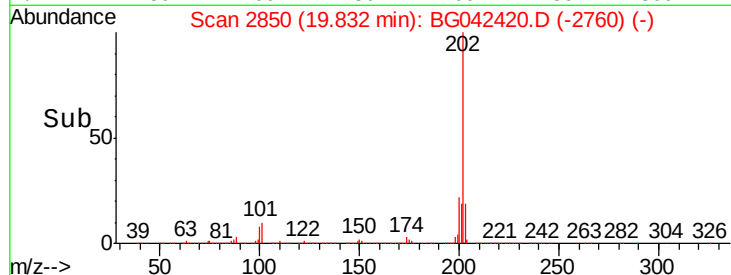
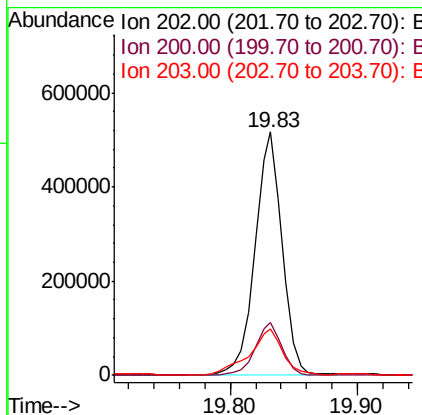
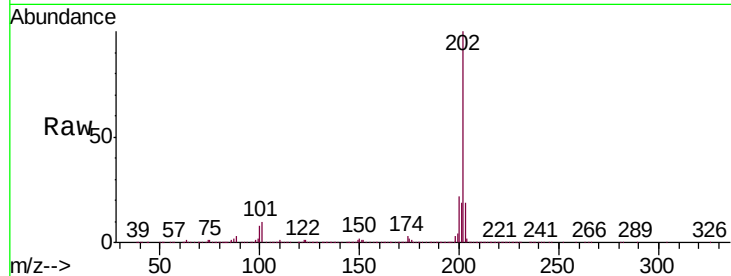
ClientSampleId :

OK-01-082119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		764889		
200	21.7	17.8	26.6		
203	19.1	15.5	23.3		

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#79

Terphenyl-d14

Concen: 12.141 ng

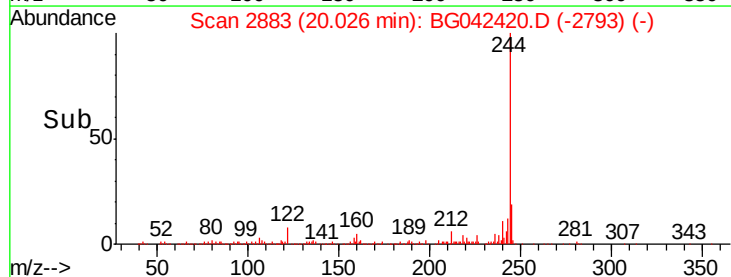
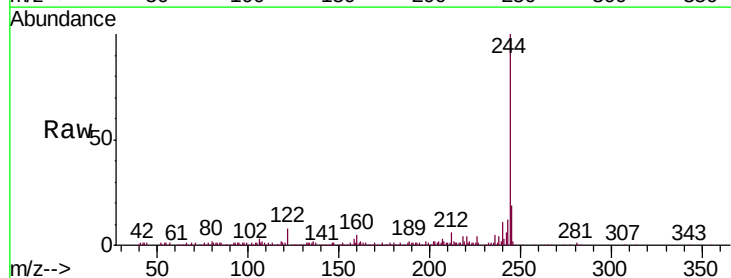
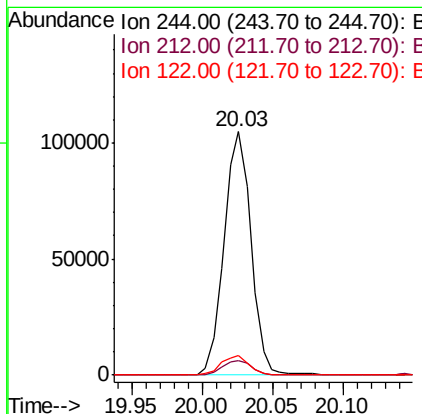
RT: 20.03 min Scan# 2883

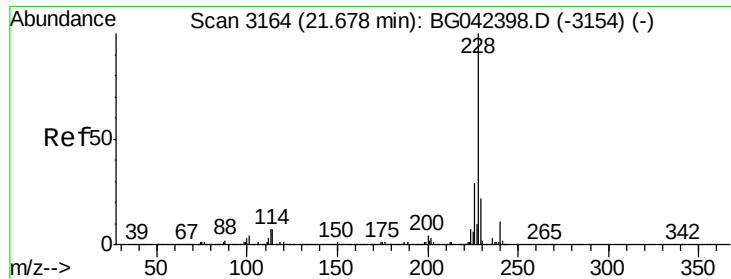
Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100		139242		
212	5.8	6.0	9.0#		
122	7.8	6.7	10.1		





#81

Benzo(a)anthracene

Concen: 23.444 ng

RT: 21.67 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

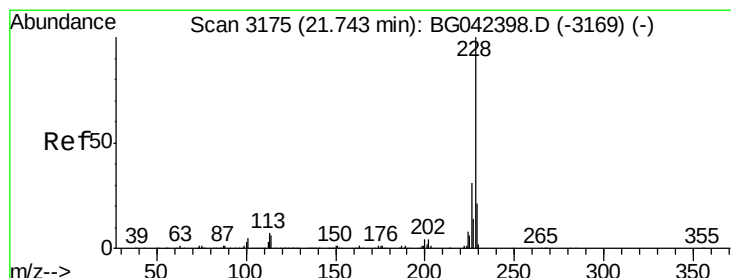
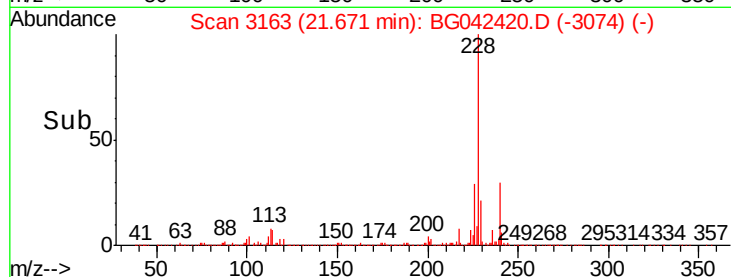
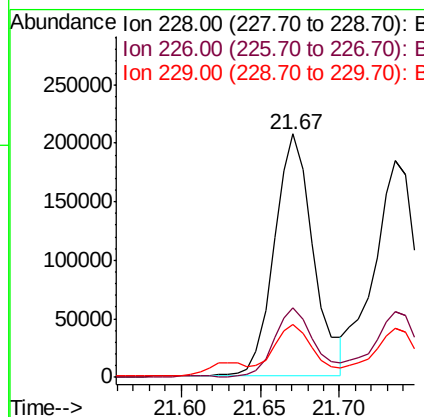
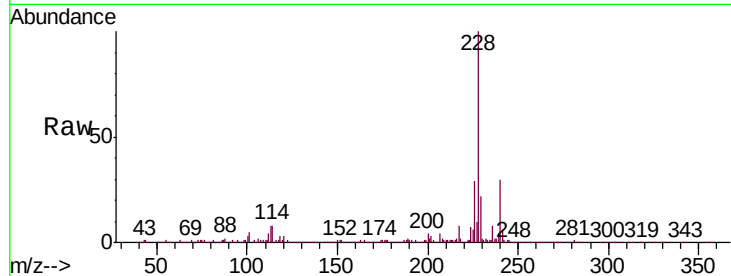
ClientSampleId :

OK-01-082119

Tot Ion:	228	Resp:	353593
Ion Ratio	Lower	Upper	
228	100		
226	28.8	23.4	35.2
229	21.5	17.4	26.2

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#83

Chrysene

Concen: 23.540 ng

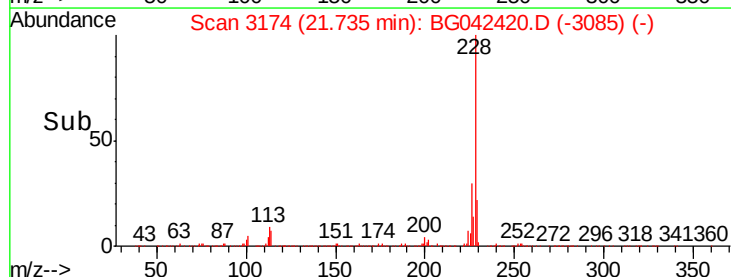
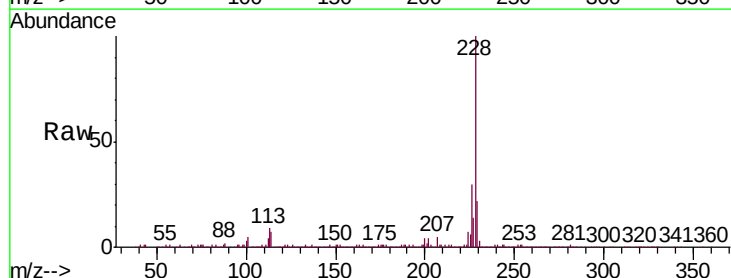
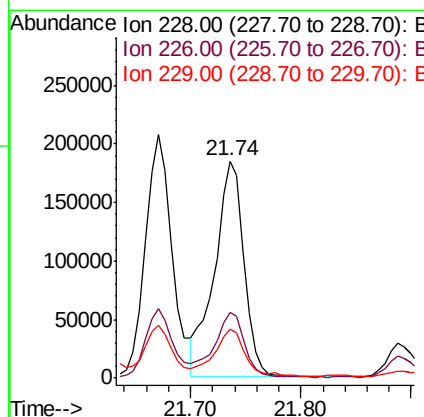
RT: 21.74 min Scan# 3174

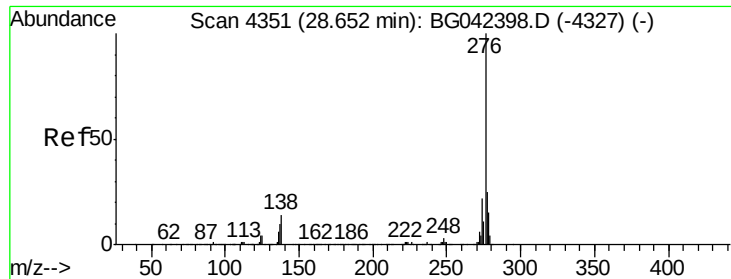
Delta R.T. -0.01 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion:	228	Resp:	342413
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.9	37.3
229	22.4	16.9	25.3





#86

Indeno(1,2,3-cd)pyrene

Concen: 11.343 ng

RT: 28.63 min Scan# 4347

Delta R.T. -0.02 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

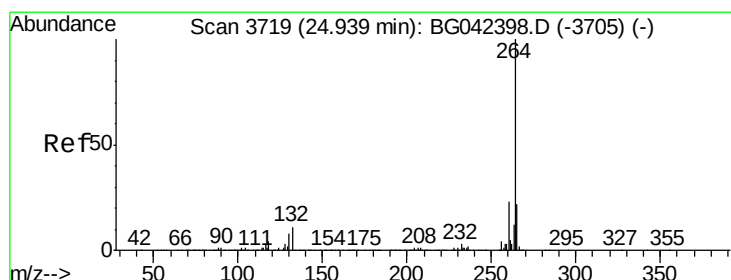
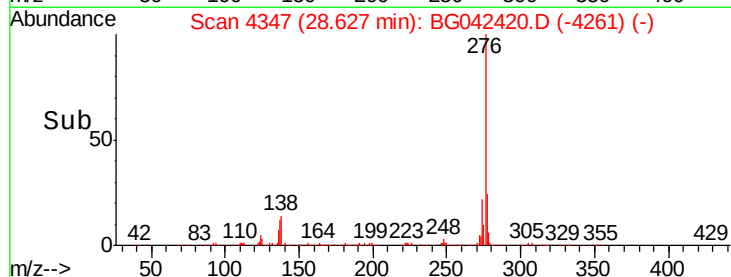
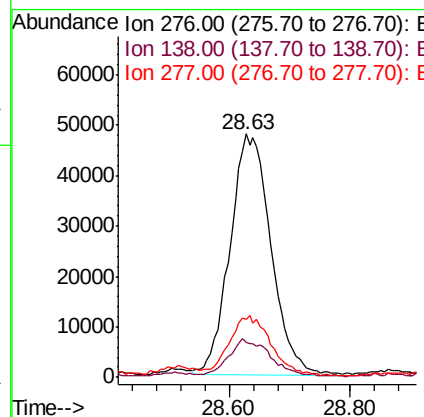
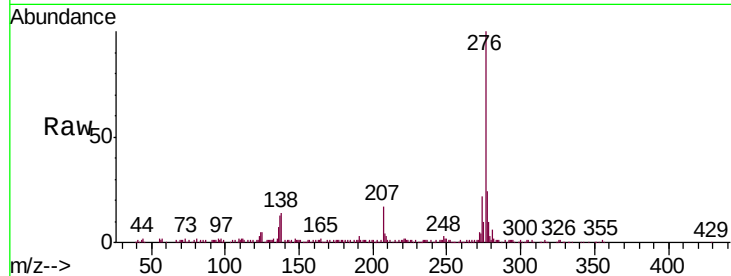
ClientSampleId :

OK-01-082119

Tot Ion	Ratio	Lower	Upper
276	100		
138	15.3	9.2	13.8#
277	25.4	21.0	31.6

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#87

Perylene-d12

Concen: 40.000 ng

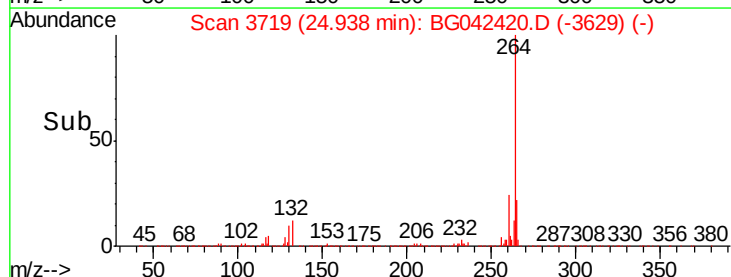
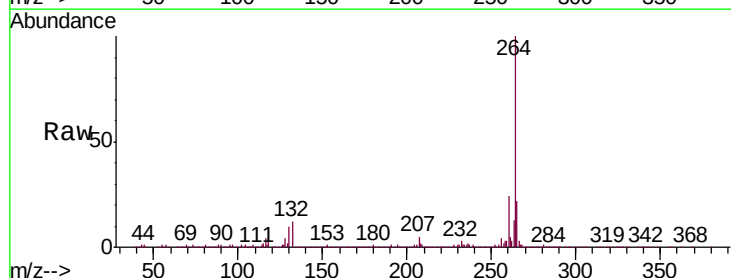
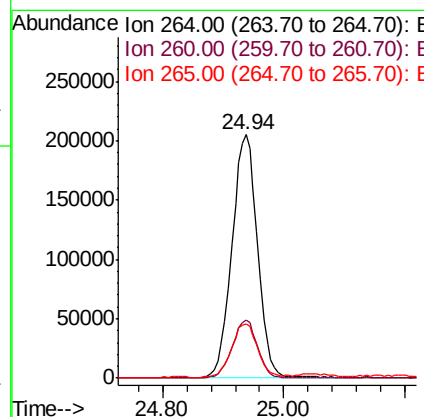
RT: 24.94 min Scan# 3719

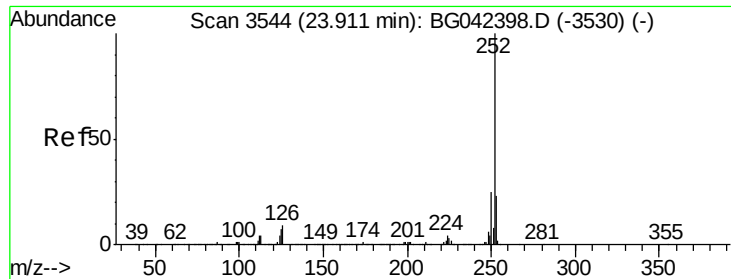
Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.5	27.7
265	22.2	17.6	26.4





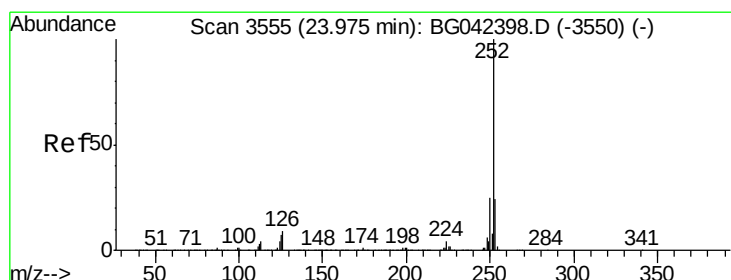
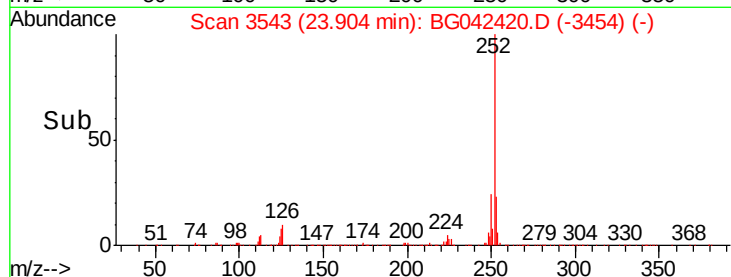
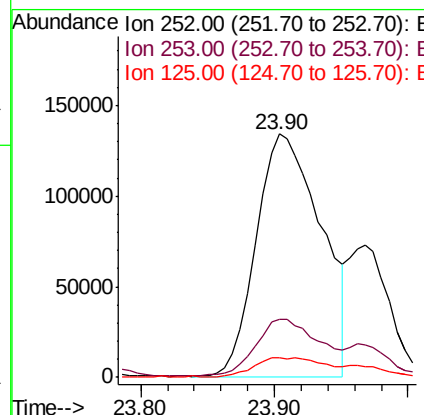
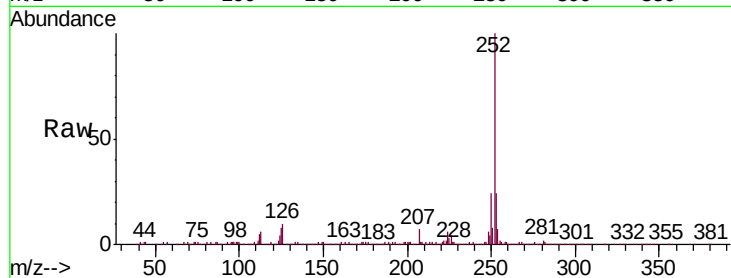
#88
Benzo(b)fluoranthene
Concen: 27.423 ng
RT: 23.90 min Scan# 3543
Delta R.T. -0.01 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Instrument :
BNA_G
ClientSampleId :
OK-01-082119

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	27.8
125	8.2	5.6	8.4

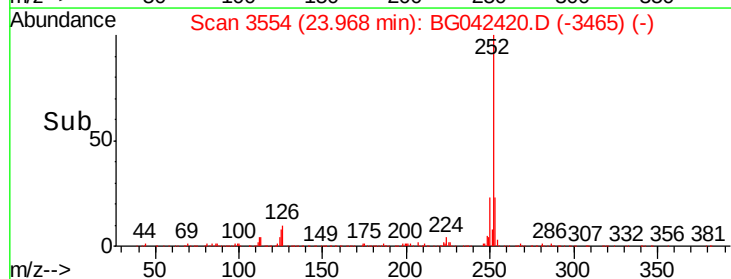
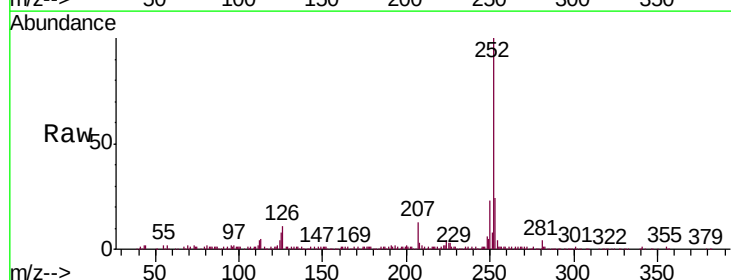
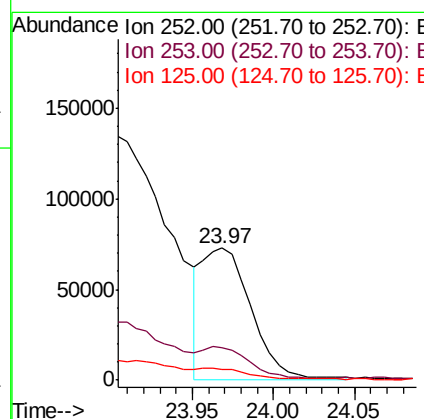
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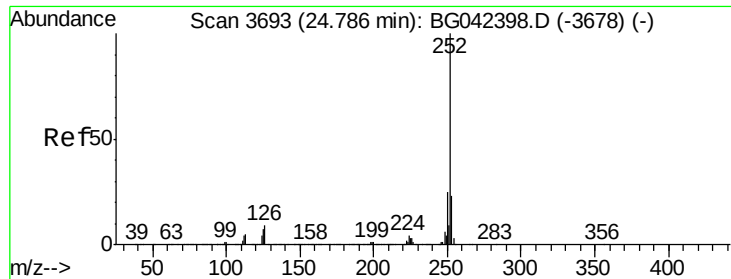
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#89
Benzo(k)fluoranthene
Concen: 9.775 ng m
RT: 23.97 min Scan# 3554
Delta R.T. -0.01 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.6	27.8
125	8.3	5.8	8.6





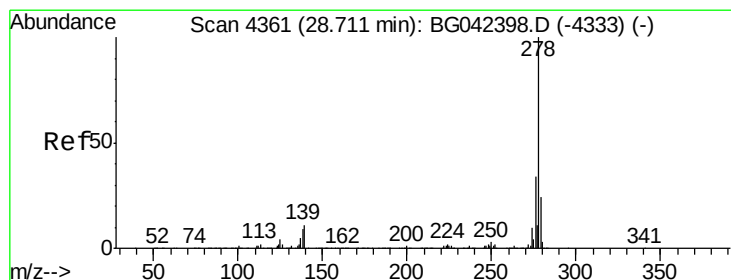
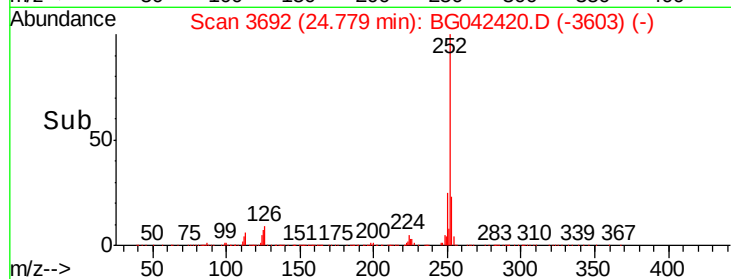
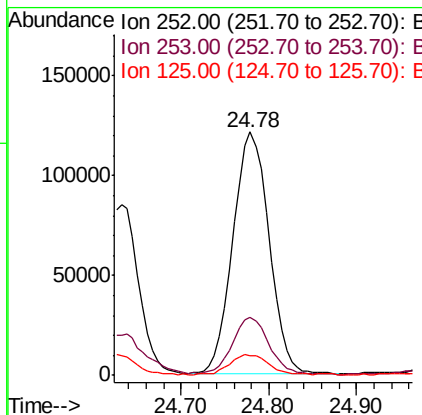
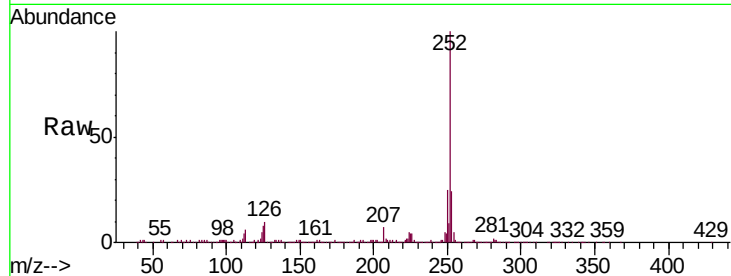
#90
Benzo(a)pyrene
Concen: 21.719 ng
RT: 24.78 min Scan# 3692
Delta R.T. -0.01 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Instrument :
BNA_G
ClientSampleId :
OK-01-082119

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	7.9	6.0	9.0

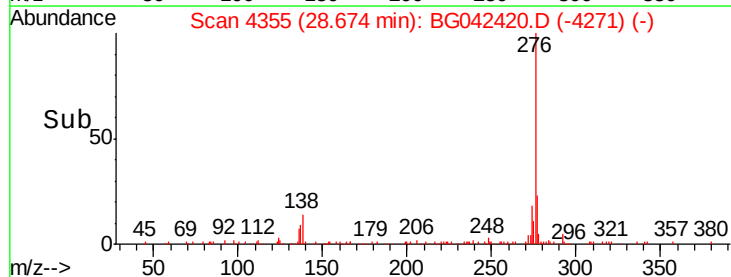
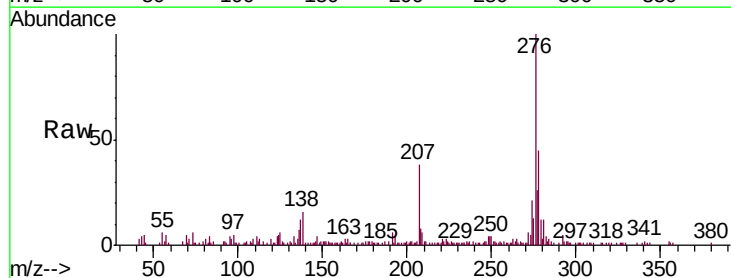
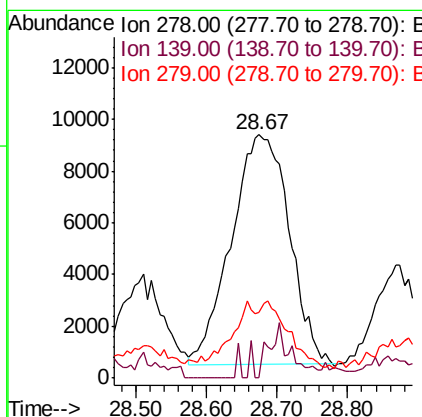
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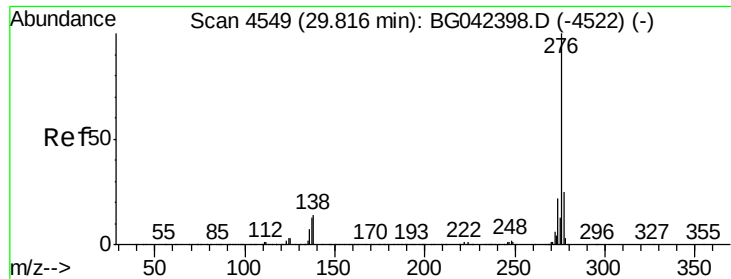
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#91
Dibenzo(a,h)anthracene
Concen: 3.217 ng
RT: 28.67 min Scan# 4355
Delta R.T. -0.04 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	8.8	13.2#
279	27.2	19.1	28.7





#92
 Benzo(a,h,i)perylene
 Concen: 15.005 ng
 RT: 29.80 min Scan# 4546
 Delta R.T. -0.02 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

Instrument :
 BNA_G
 ClientSampleId :
 OK-01-082119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
277	22.2	19.8	29.8		
138	15.1	11.4	17.0		

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