

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060319\
 Data File : BG041053.D
 Acq On : 4 Jun 2019 3:01
 Operator : HP/JU
 Sample : K2641-21 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleID :
 CL-02-053119-E

Manual Integrations
 APPROVED

mohammad
 6/5/2019 8:35:45 AM

Quant Time: Jun 04 13:37:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 18:39:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.13	152	77864	20.00	ng	0.00
21) Naphthalene-d8	10.95	136	299409	20.00	ng	0.00
39) Acenaphthene-d10	14.76	164	188623	20.00	ng	0.00
64) Phenanthrene-d10	17.51	188	406854	20.00	ng	0.00
76) Chrysene-d12	21.79	240	395604	20.00	ng	0.00
87) Perylene-d12	25.14	264	305357	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	194010	44.93	ng	0.00
7) Phenol-d6	7.27	99	283839	42.56	ng	0.00
23) Nitrobenzene-d5	9.30	82	191696	28.42	ng	0.00
42) 2,4,6-Tribromophenol	16.24	330	115084	41.10	ng	0.00
45) 2-Fluorobiphenyl	13.38	172	372598	28.45	ng	0.00
79) Terphenyl-d14	20.10	244	493918	26.50	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.00	128	44335	2.758	ng	97
37) 2-Methylnaphthalene	12.60	142	41225	3.330	ng	92
38) 1-Methylnaphthalene	12.81	142	47724m	4.090	ng	
49) Acenaphthylene	14.49	152	41421	2.296	ng	96
50) Dimethylphthalate	14.20	163	33037	2.069	ng	98
52) Acenaphthene	14.82	154	108614	9.938	ng	91
55) Dibenzofuran	15.15	168	124129	6.750	ng	97
58) Fluorene	15.80	166	212233	14.492	ng	97
71) Phenanthrene	17.55	178	1235156	58.283	ng	96
72) Anthracene	17.64	178	373381	17.864	ng	98
73) Carbazole	17.91	167	86884	4.845	ng	# 96
75) Fluoranthene	19.55	202	1334195	50.970	ng	96
78) Pylene	19.92	202	1243658	48.360	ng	98
81) Benzo(a)anthracene	21.77	228	612320	23.252	ng	98
83) Chrysene	21.84	228	570642	22.644	ng	96
86) Indeno(1,2,3-cd)pyrene	29.00	276	94732	3.069	ng	# 97
88) Benzo(b)fluoranthene	24.07	252	410995	22.191	ng	# 97
89) Benzo(k)fluoranthene	24.13	252	222046m	12.115	ng	
90) Benzo(a)pyrene	24.98	252	297786	16.852	ng	# 96
92) Benzo(a,h,i)perylene	30.21	276	76807	4.478	ng	# 79

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

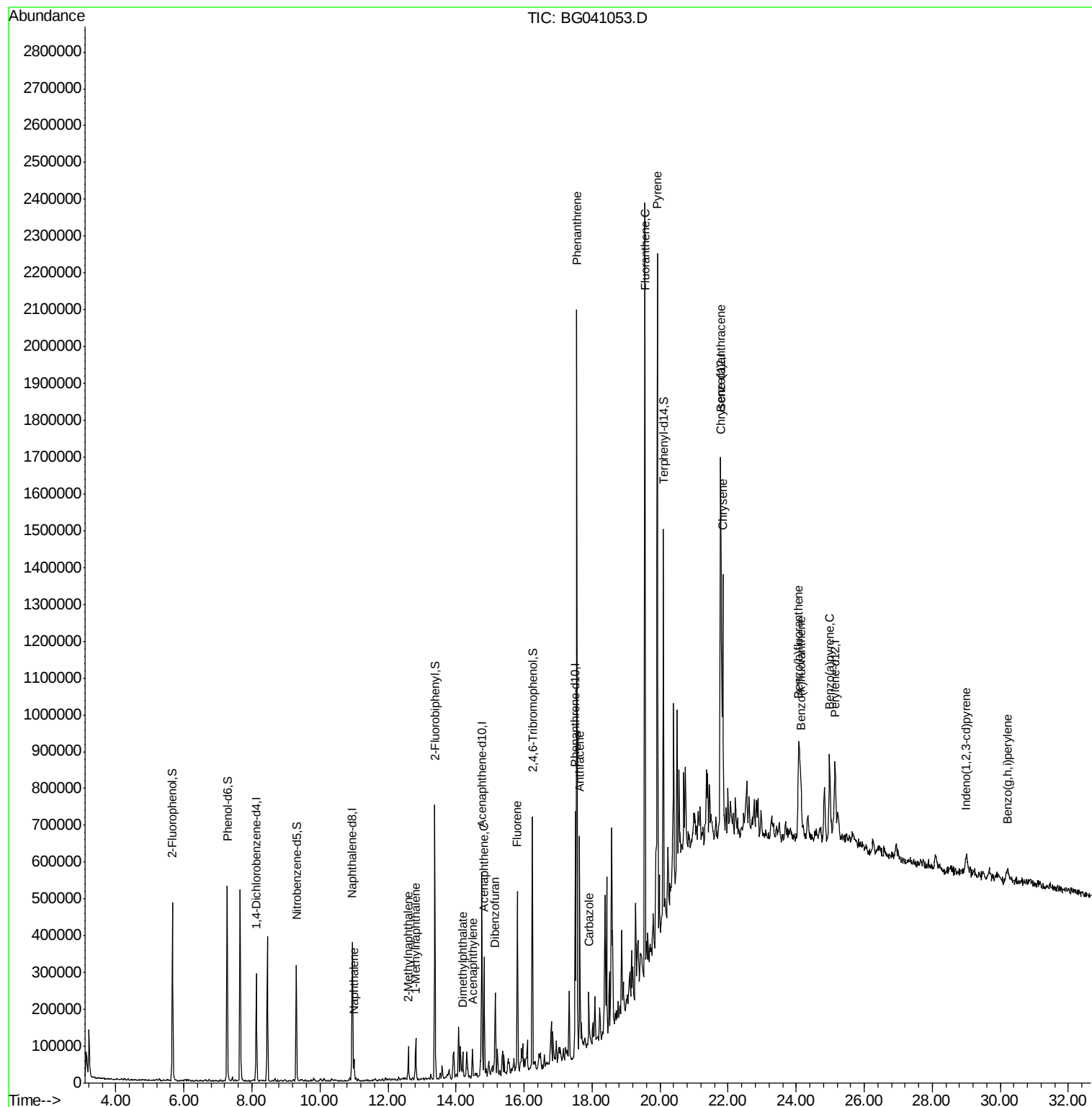
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060319\
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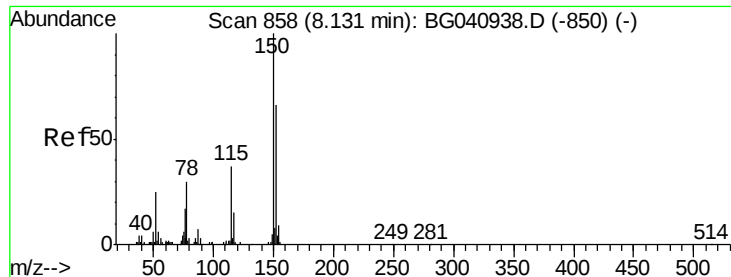
Instrument :
BNA_G
ClientSampleID :
CL-02-053119-E

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

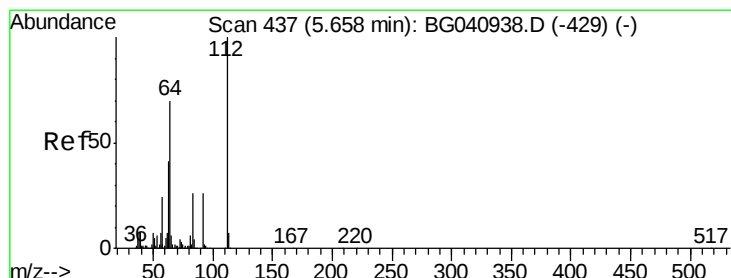
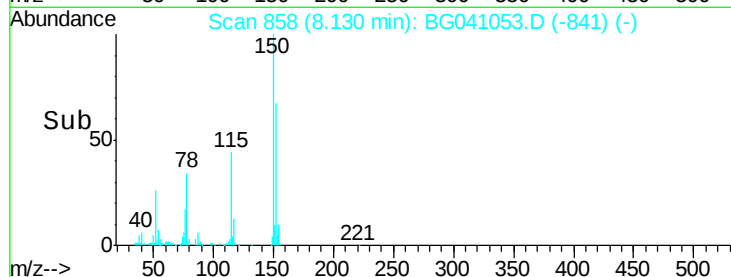
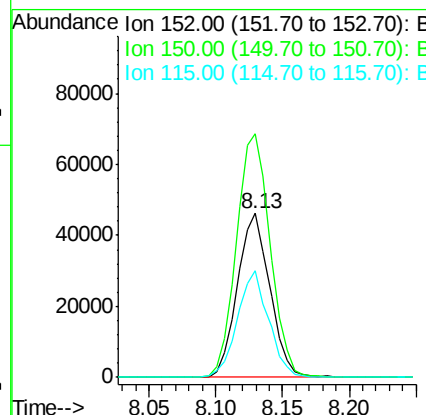
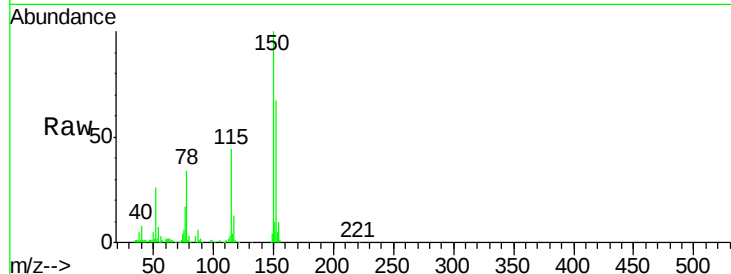
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.13 min Scan# 858
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.8	120.6	180.8
115	64.9	45.1	67.7

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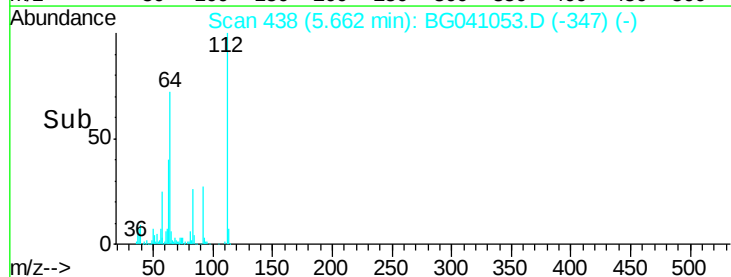
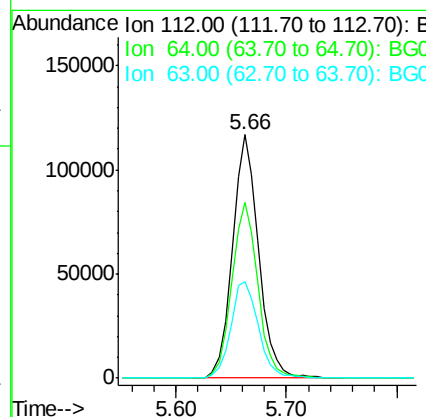
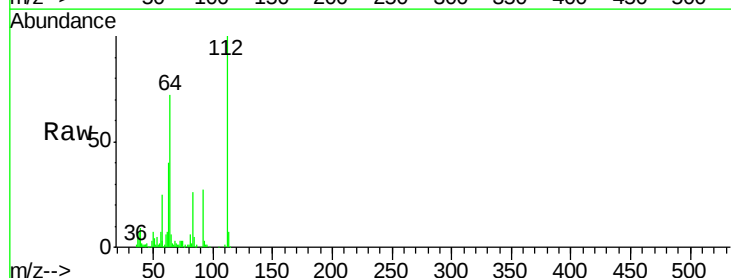
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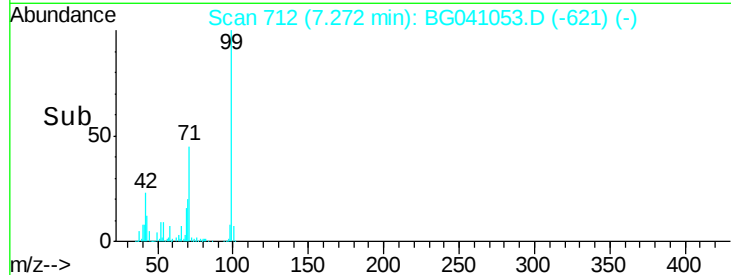
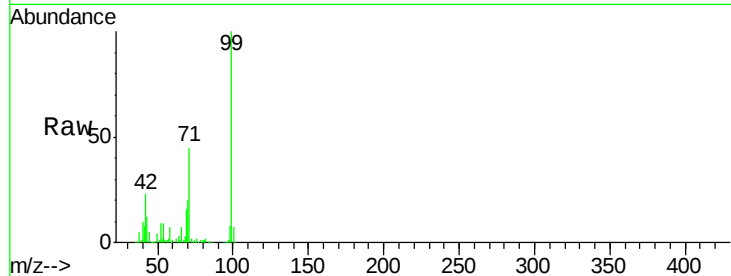


#5

2-Fluorophenol
Concen: 44.930 ng
RT: 5.66 min Scan# 438
Delta R.T. 0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.0	56.2	84.2
63	39.5	32.8	49.2





#7

Phenol-d6

Concen: 42.562 ng

RT: 7.27 min Scan# 712

Delta R.T. 0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Tot Ion:	99	Resp:	283839
Ion Ratio	Lower	Upper	
99	100		
42	22.8	17.9	26.9
71	44.5	35.4	53.0

Instrument :

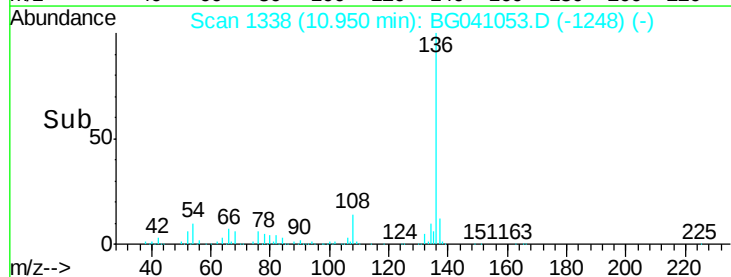
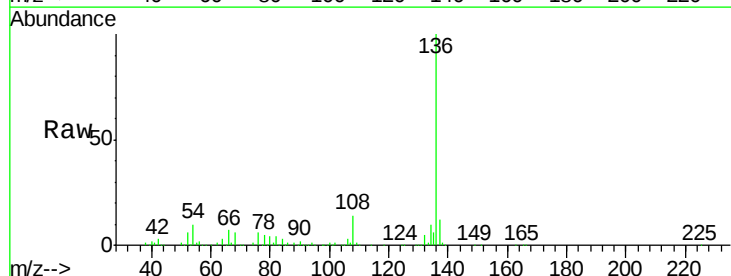
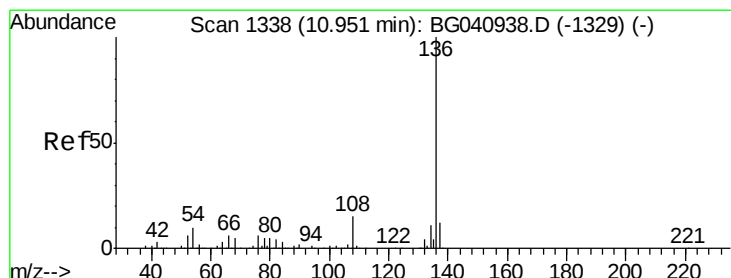
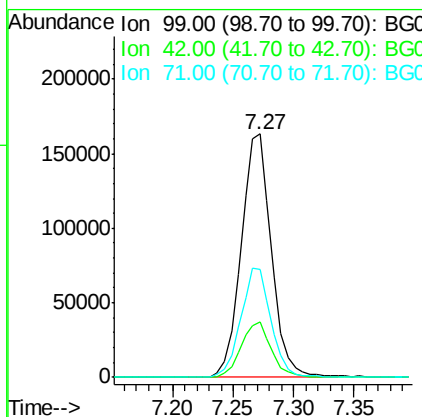
BNA_G

ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.000 ng

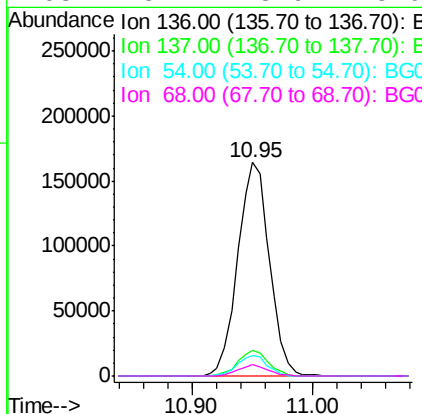
RT: 10.95 min Scan# 1338

Delta R.T. -0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Tgt Ion:	136	Resp:	299409
Ion Ratio	Lower	Upper	
136	100		
137	12.1	9.5	14.3
54	9.7	7.6	11.4
68	5.7	3.9	5.9





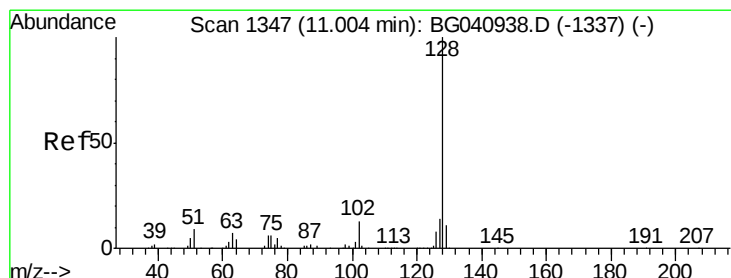
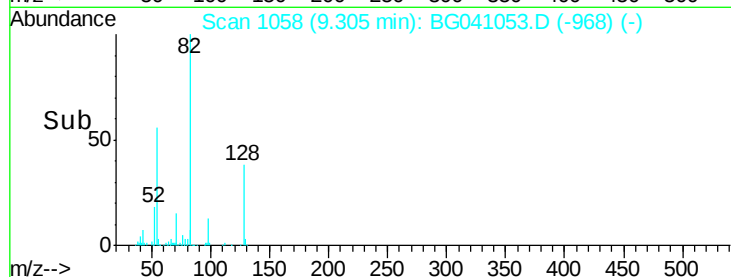
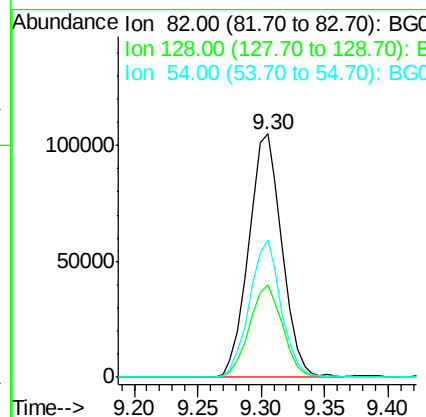
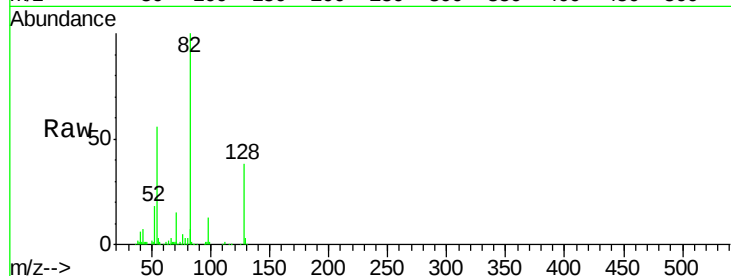
#23
Nitrobenzene-d5
Concen: 28.423 ng
RT: 9.30 min Scan# 1058
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.8	30.5	45.7
54	56.5	44.6	66.8

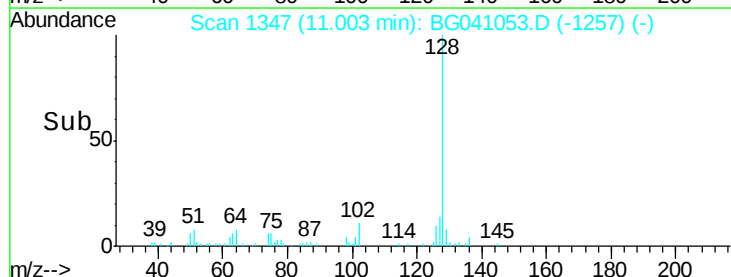
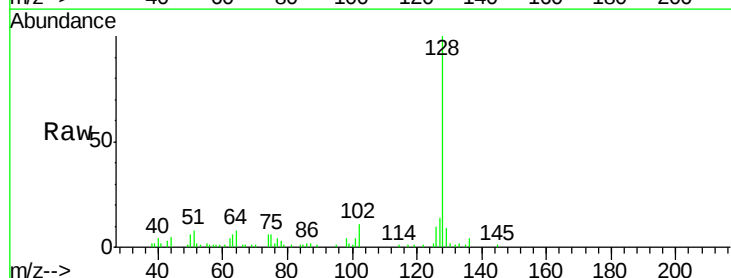
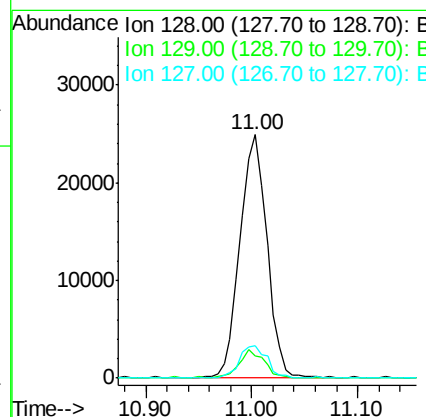
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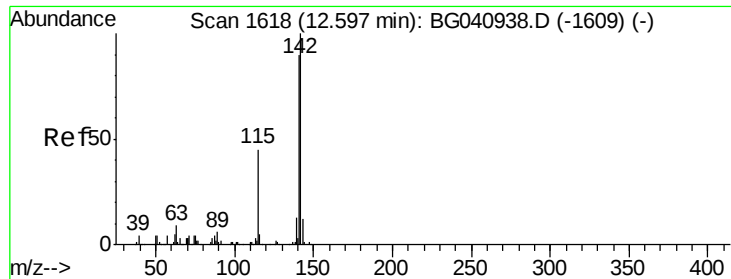
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#31
Naphthalene
Concen: 2.758 ng
RT: 11.00 min Scan# 1347
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
128	100		
129	9.0	8.5	12.7
127	13.5	11.4	17.2





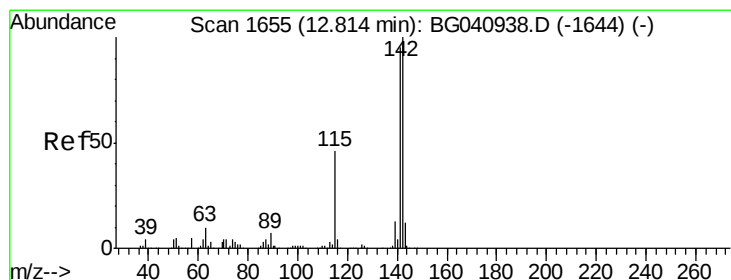
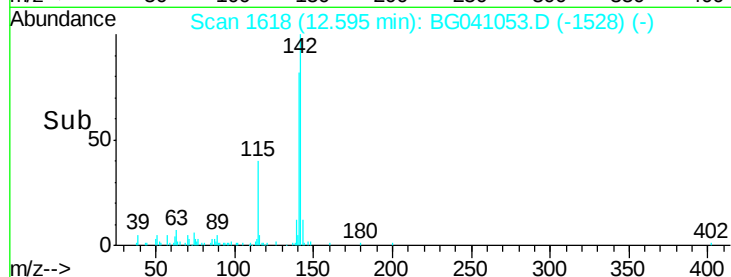
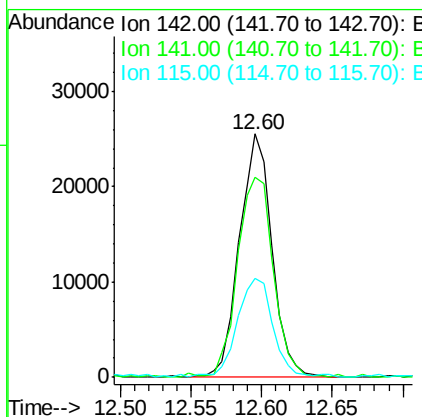
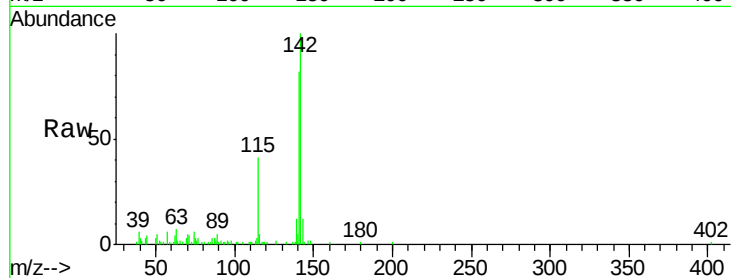
#37
2-Methylnaphthalene
Concen: 3.330 ng
RT: 12.60 min Scan# 1618
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
142	100		
141	82.1	72.2	108.4
115	40.5	36.2	54.4

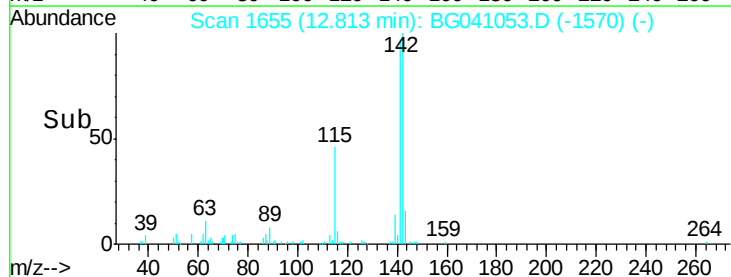
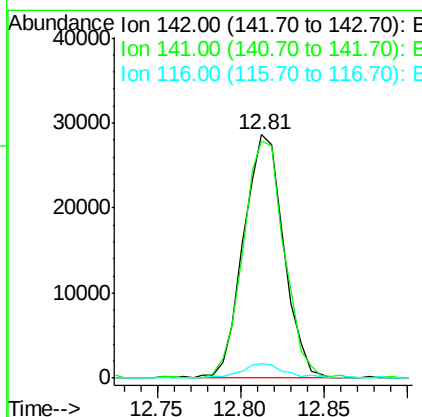
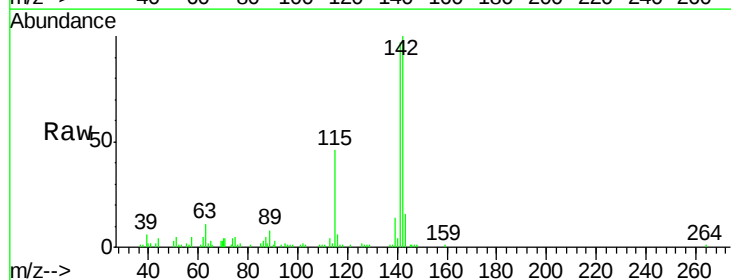
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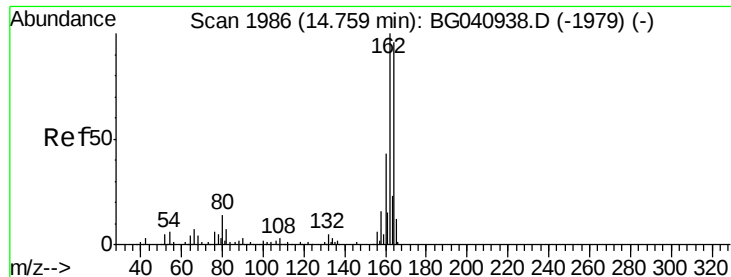
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#38
1-Methylnaphthalene
Concen: 4.090 ng m
RT: 12.81 min Scan# 1655
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
142	100		
141	97.3	75.7	113.5
116	6.0	3.4	5.2#





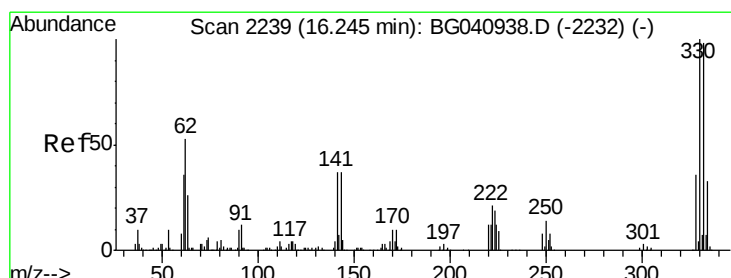
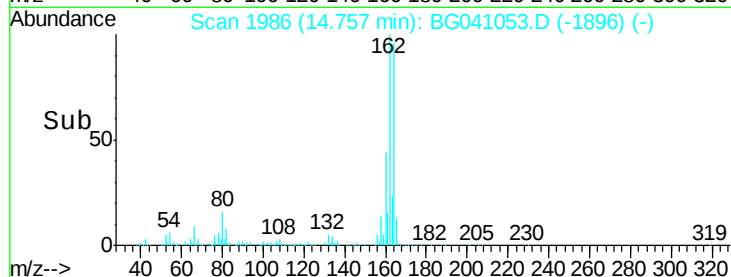
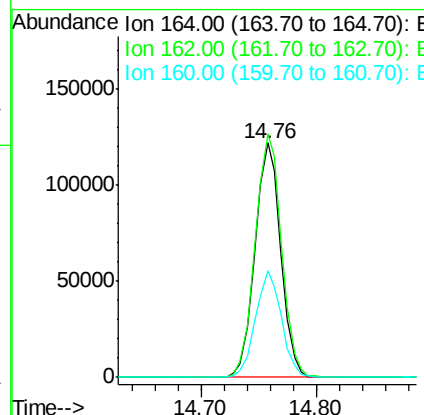
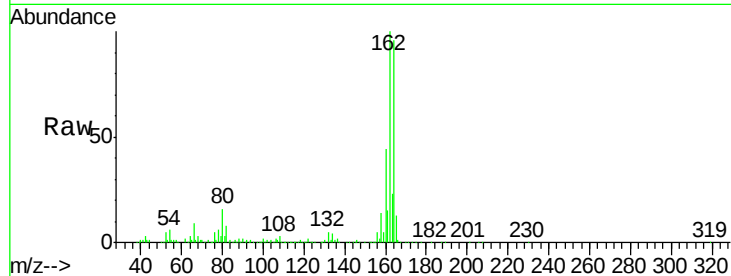
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.76 min Scan# 1986
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.0	124.4
160	45.5	35.6	53.4

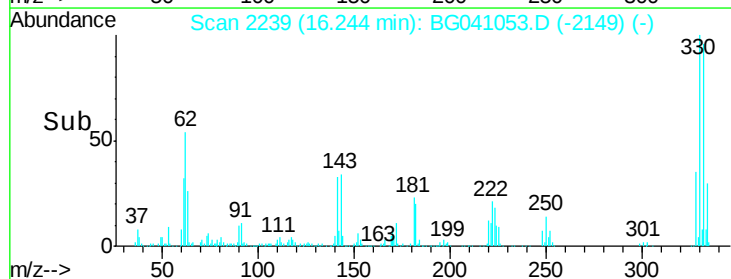
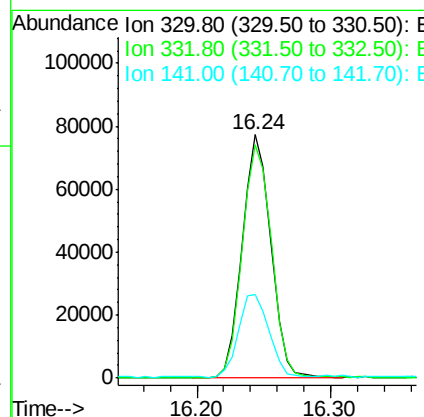
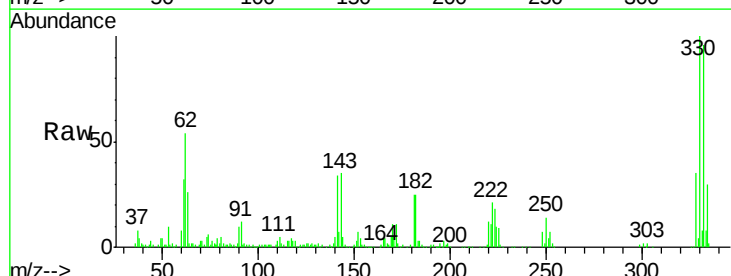
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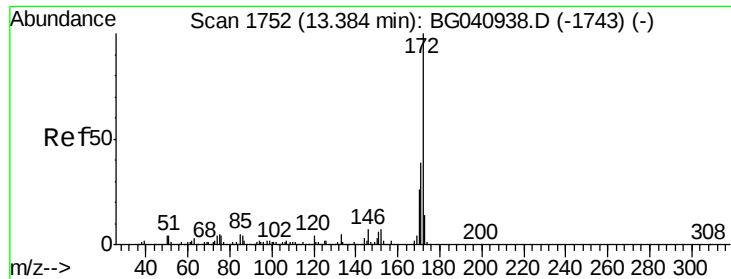
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#42
2,4,6-Tribromophenol
Concen: 41.098 ng
RT: 16.24 min Scan# 2239
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.3	78.5	117.7
141	36.7	28.7	43.1





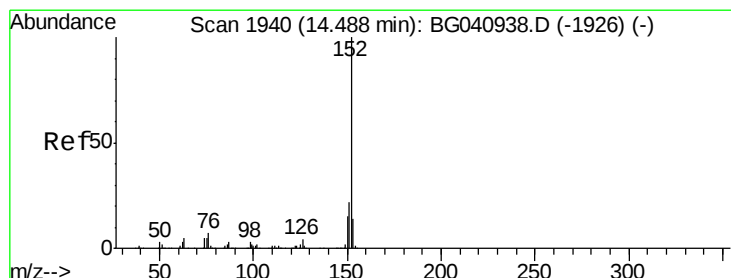
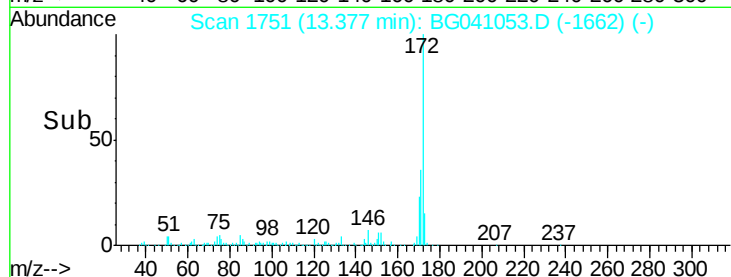
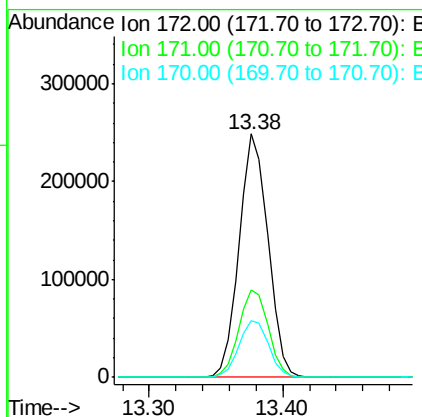
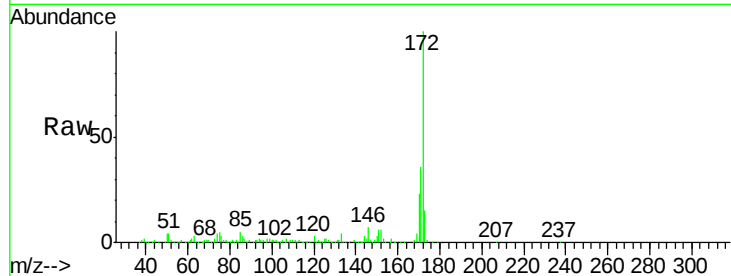
#45
2-Fluorobiphenyl
Concen: 28.447 ng
RT: 13.38 min Scan# 1751
Delta R.T. -0.01 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Resp	Lower	Upper
172	100	372598		
171	35.7		31.1	46.7
170	23.2		20.5	30.7

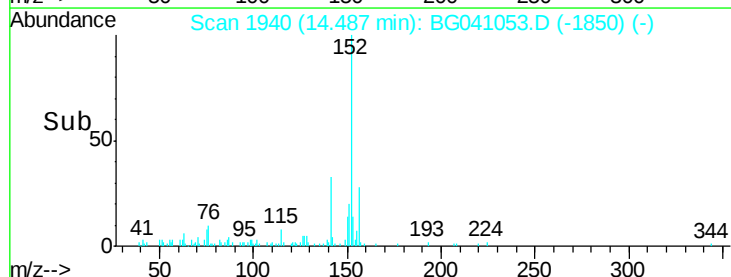
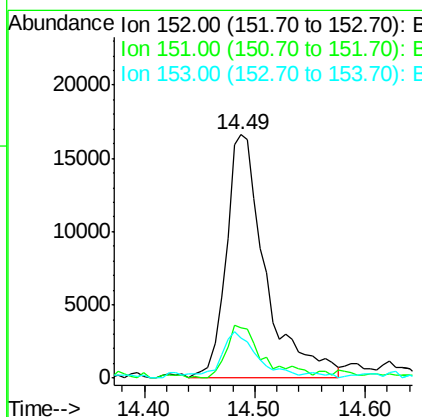
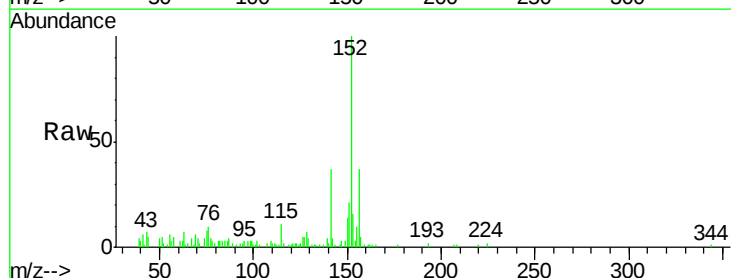
Manual Integrations
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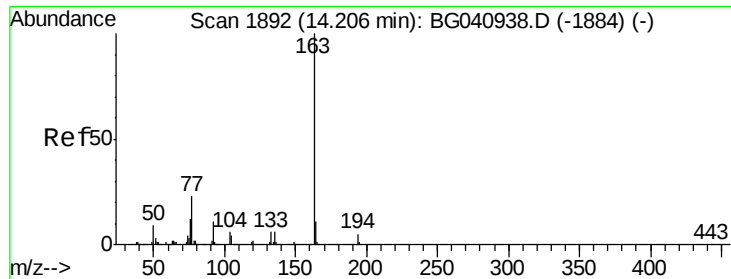
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#49
Acenaphthylene
Concen: 2.296 ng
RT: 14.49 min Scan# 1940
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	41421		
151	20.8		17.4	26.0
153	16.4		11.0	16.4





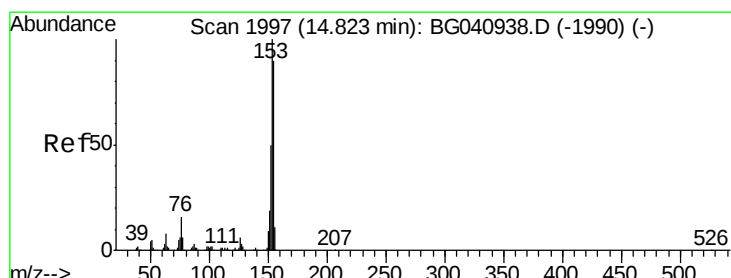
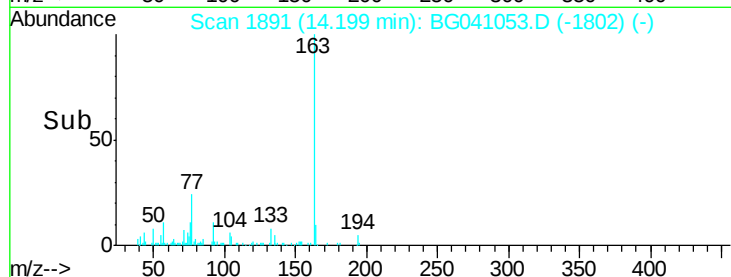
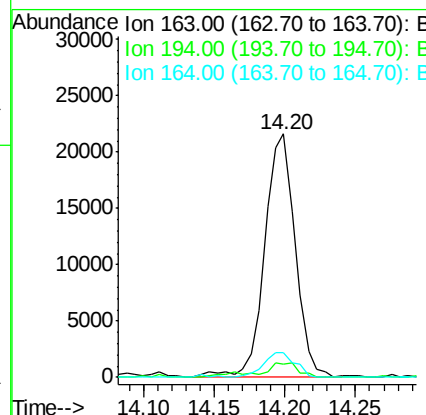
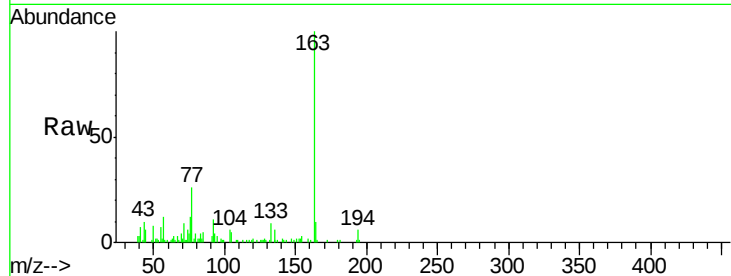
#50
Dimethylphthalate
Concen: 2.069 ng
RT: 14.20 min Scan# 1891
Delta R.T. -0.01 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Resp	Lower	Upper
163	100	33037		
194	5.6		3.8	5.8
164	10.1		8.7	13.1

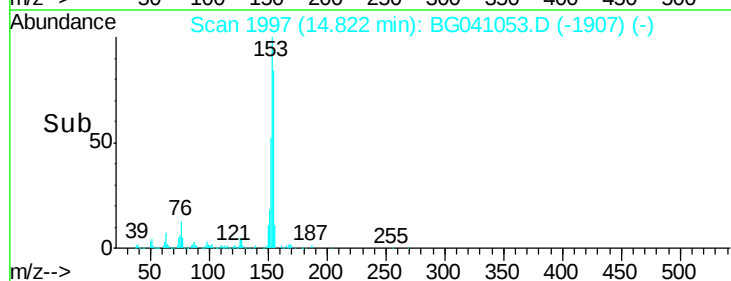
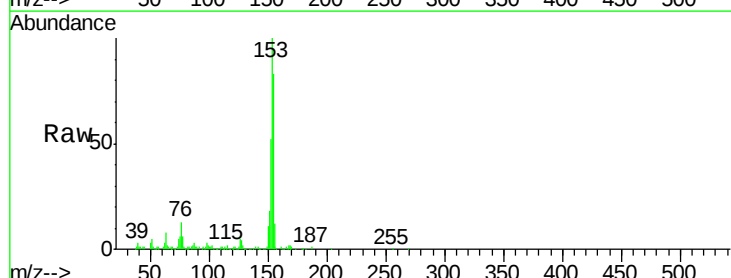
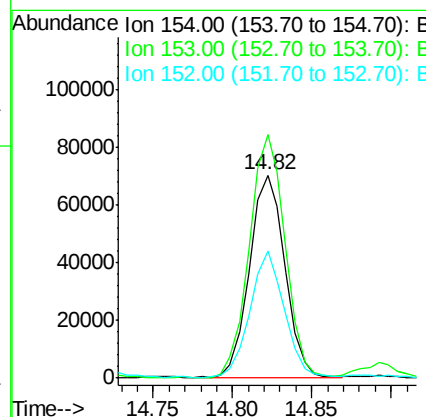
Manual Integrations
APPROVED

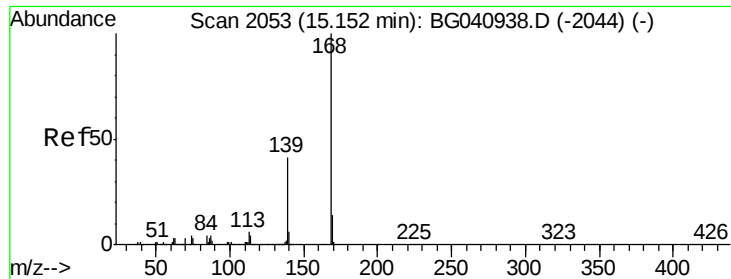
mohammad
6/5/2019 8:35:45 AM



#52
Acenaphthene
Concen: 9.938 ng
RT: 14.82 min Scan# 1997
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	108614		
153	119.8		88.6	133.0
152	62.4		44.2	66.4





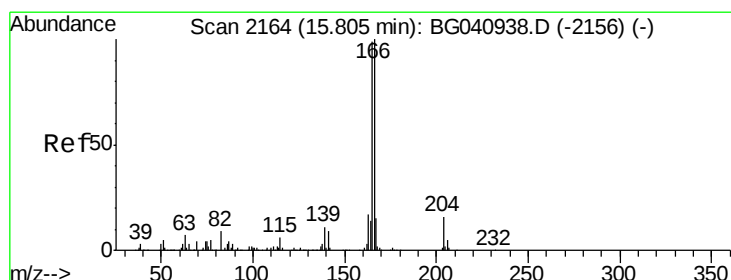
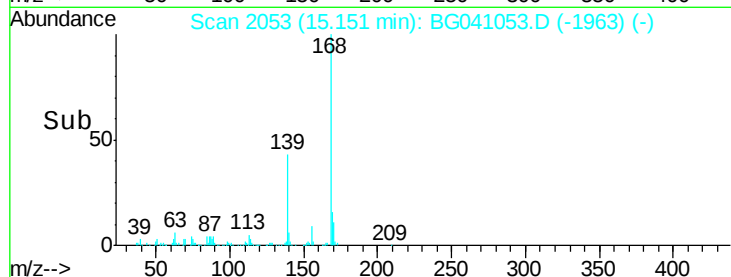
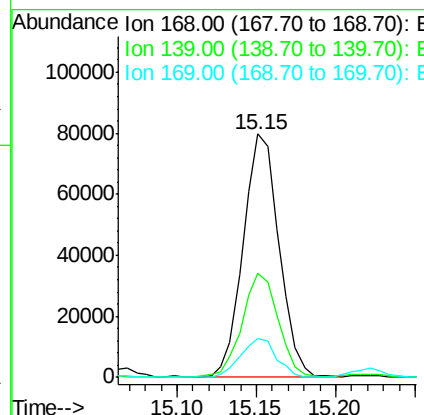
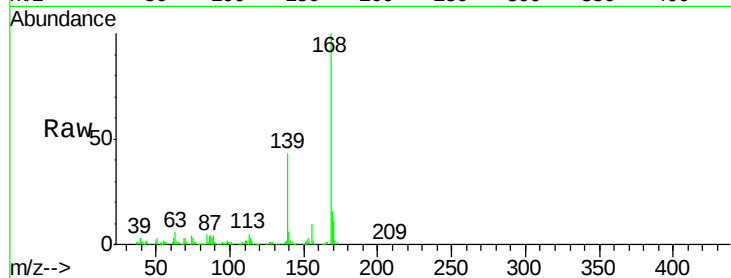
#55
Dibenzenofuran
Concen: 6.750 ng
RT: 15.15 min Scan# 2053
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.7	32.8	49.2
169	15.8	11.3	16.9

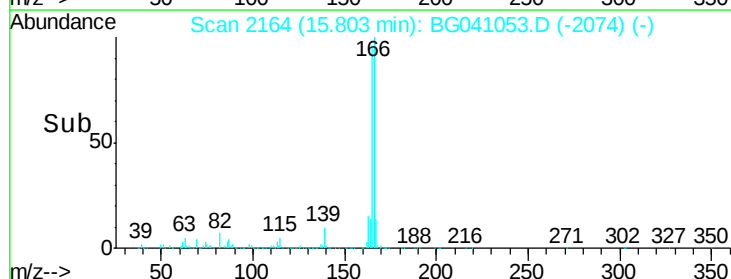
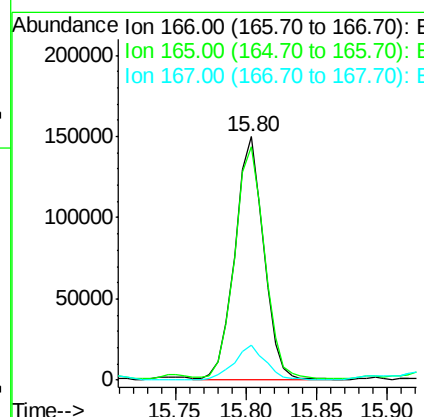
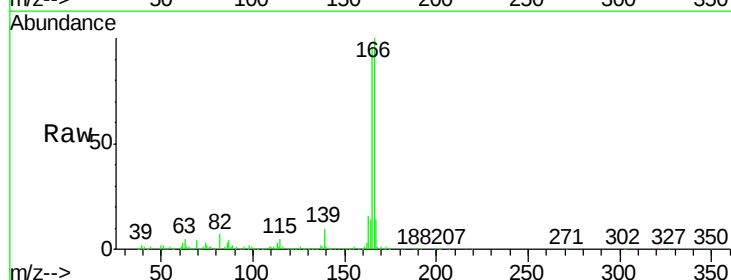
Manual Integrations
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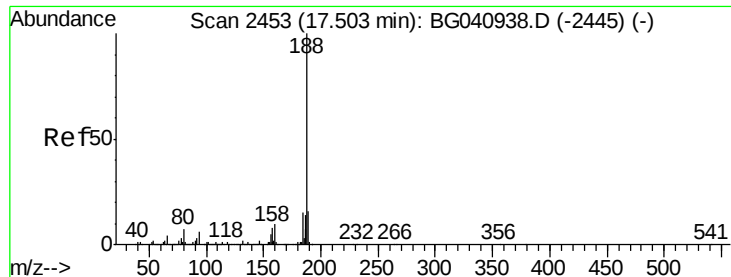
mohammad
6/5/2019 8:35:45 AM



#58
Fluorene
Concen: 14.492 ng
RT: 15.80 min Scan# 2164
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.9	79.2	118.8
167	14.4	11.8	17.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.51 min Scan# 2454

Delta R.T. 0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Instrument :

BNA_G

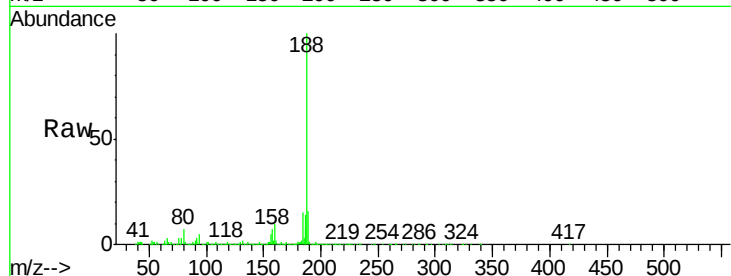
ClientSampleId :

CL-02-053119-E

Tot Ion:	188	Resp:	406854
Ion Ratio	Lower	Upper	
188	100		
94	5.3	4.7	7.1
80	6.9	5.8	8.8

Manual Integrations
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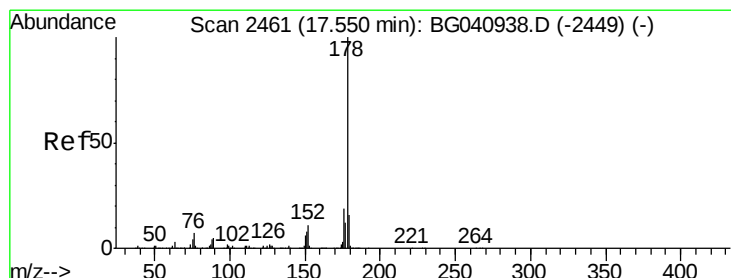
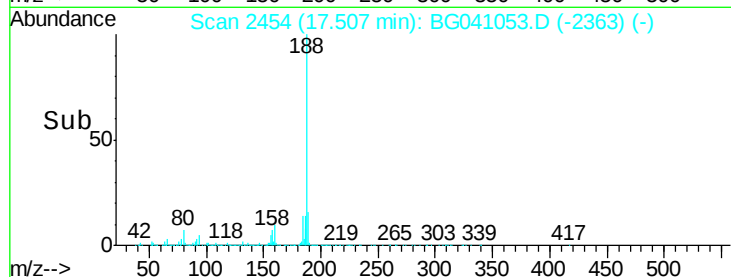
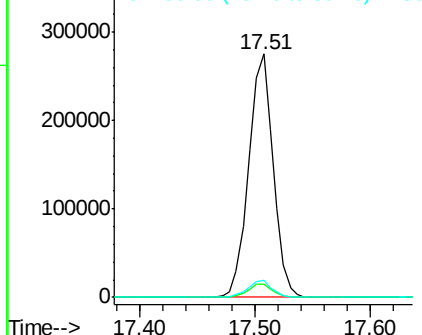
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#71

Phenanthrene

Concen: 58.283 ng

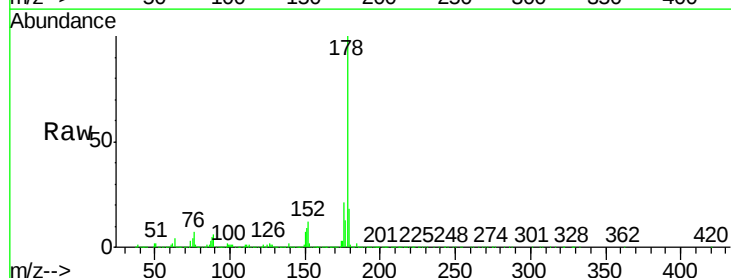
RT: 17.55 min Scan# 2461

Delta R.T. -0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

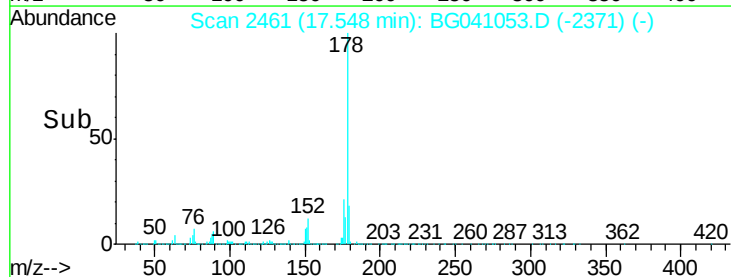
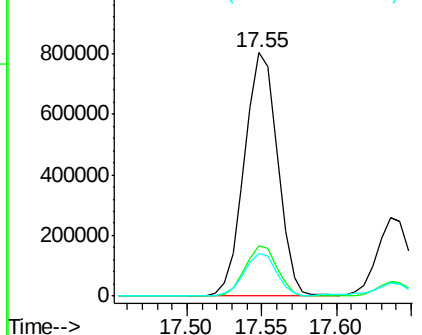
Tgt Ion:	178	Resp:	1235156
Ion Ratio	Lower	Upper	
178	100		
176	20.9	15.5	23.3
179	17.7	12.7	19.1

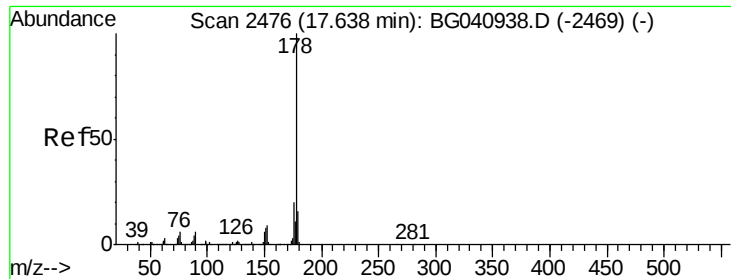


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 17.864 ng

RT: 17.64 min Scan# 2476

Delta R.T. -0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Instrument :

BNA_G

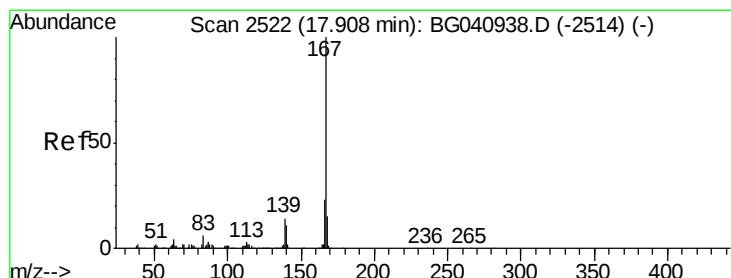
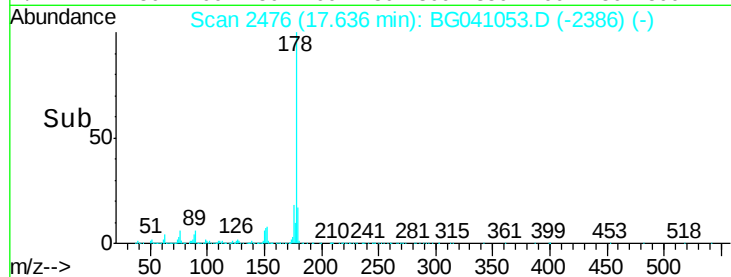
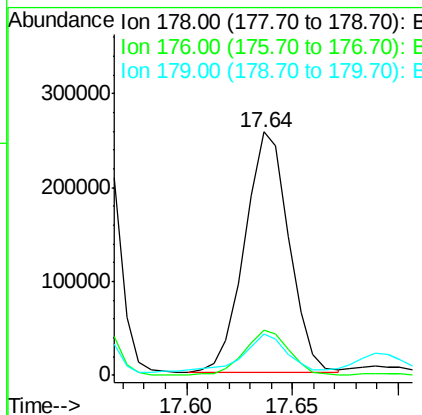
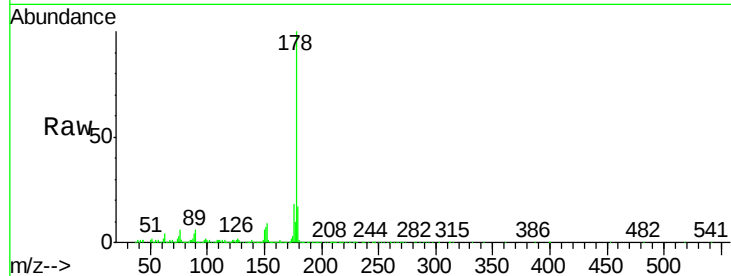
ClientSampleId :

CL-02-053119-E

Tot Ion:	178	Resp:	373381
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.6	23.4
179	16.8	13.0	19.4

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#73

Carbazole

Concen: 4.845 ng

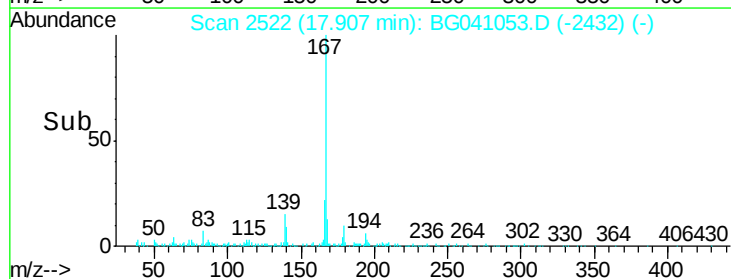
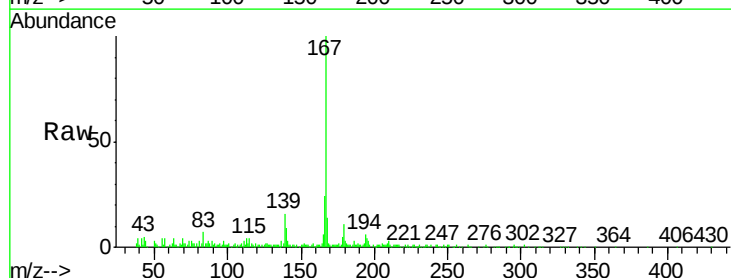
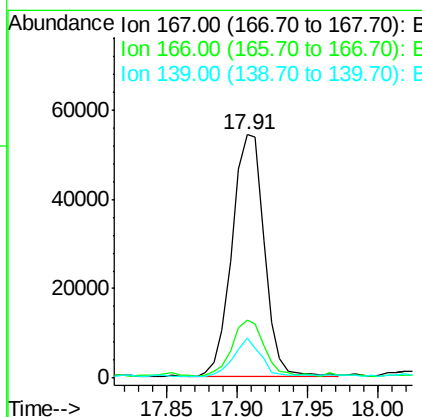
RT: 17.91 min Scan# 2522

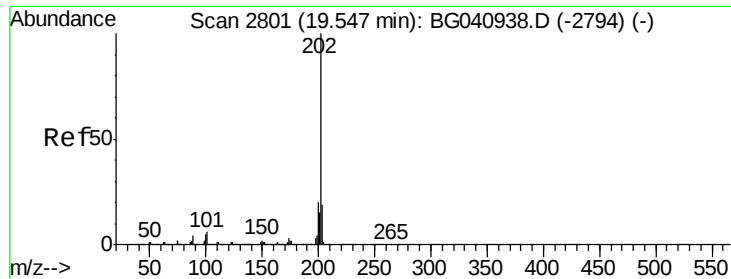
Delta R.T. -0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Tgt Ion:	167	Resp:	86884
Ion Ratio	Lower	Upper	
167	100		
166	23.7	18.2	27.4
139	16.3	10.8	16.2#





#75

Fluoranthene

Concen: 50.970 ng

RT: 19.55 min Scan# 2802

Delta R.T. 0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Instrument :

BNA_G

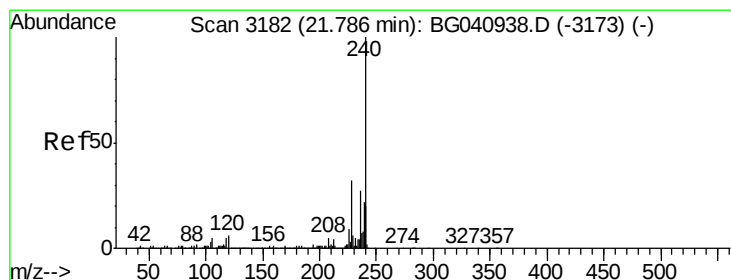
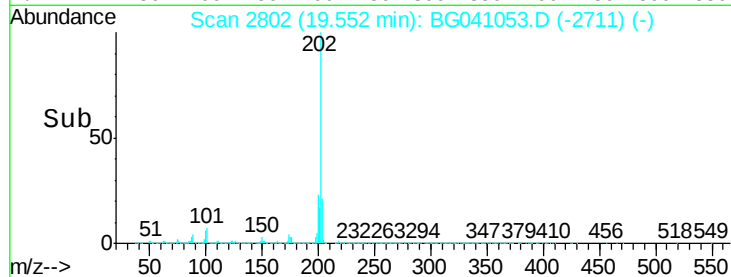
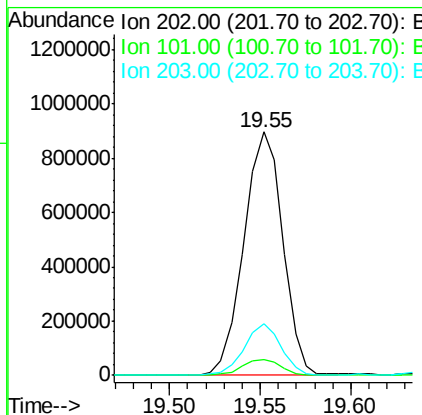
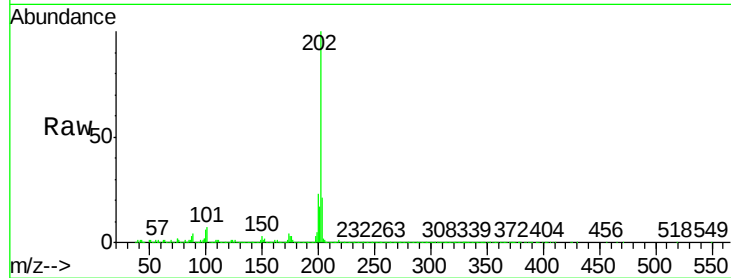
ClientSampleId :

CL-02-053119-E

Tot Ion:	202	Resp:	1334195
Ion Ratio	Lower	Upper	
202	100		
101	6.6	0.0	26.2
203	21.0	0.0	38.7

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#76

Chrysene-d12

Concen: 20.000 ng

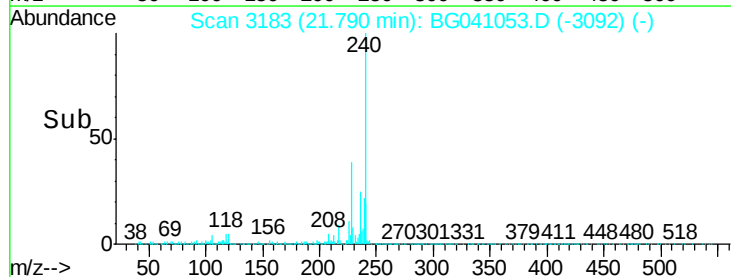
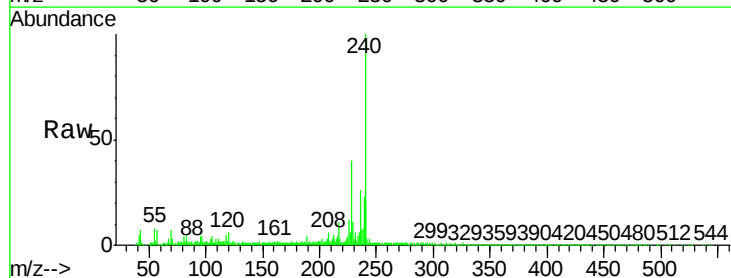
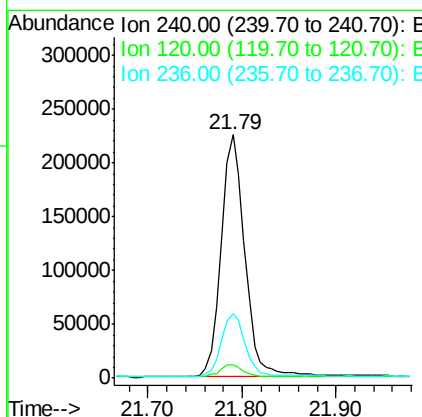
RT: 21.79 min Scan# 3183

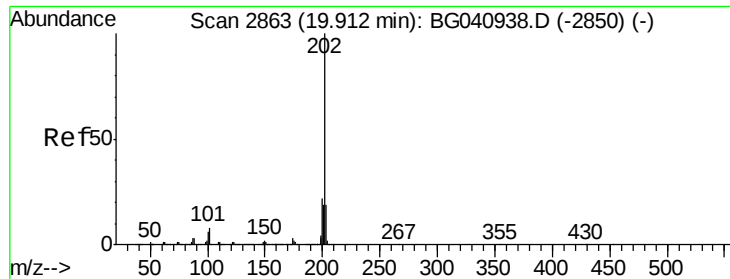
Delta R.T. 0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Tgt Ion:	240	Resp:	395604
Ion Ratio	Lower	Upper	
240	100		
120	5.6	4.5	6.7
236	26.3	21.3	31.9





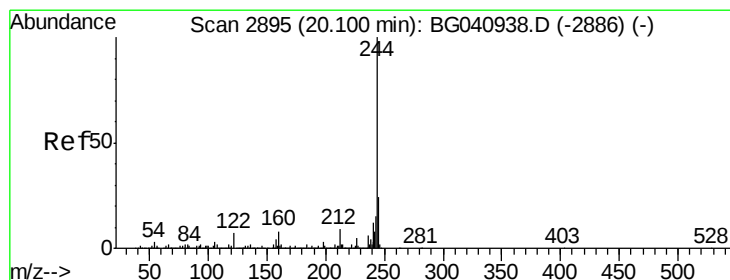
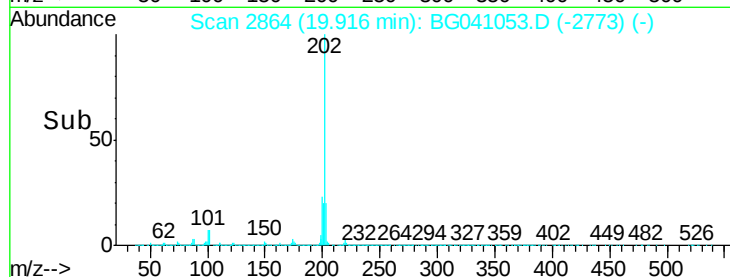
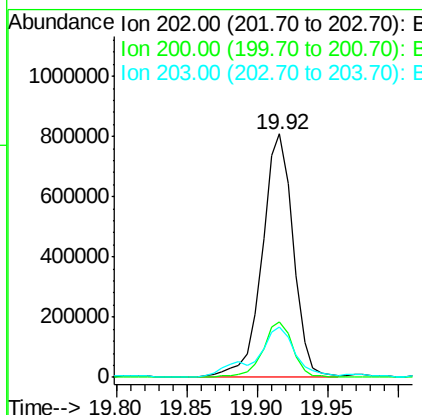
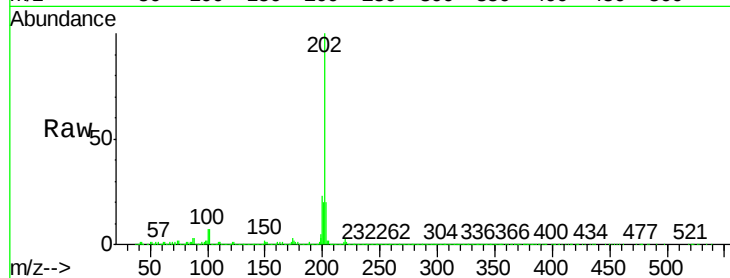
#78
Pvrene
Concen: 48.360 ng
RT: 19.92 min Scan# 2864
Delta R.T. 0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.9	17.5	26.3
203	20.4	15.6	23.4

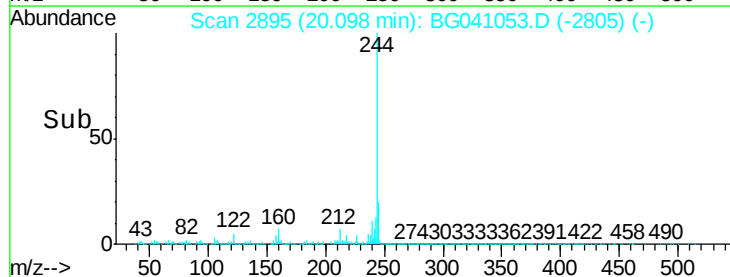
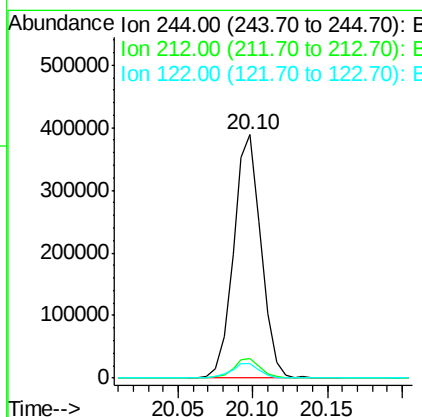
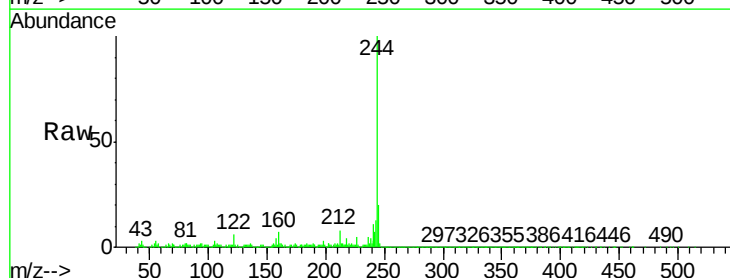
Manual Integrations
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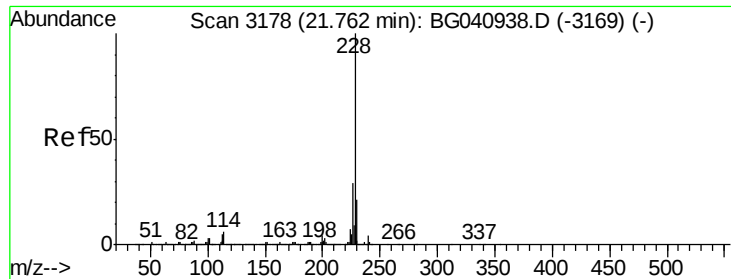
mohammad
6/5/2019 8:35:45 AM



#79
Terphenyl-d14
Concen: 26.498 ng
RT: 20.10 min Scan# 2895
Delta R.T. -0.00 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.8	7.0	10.4
122	5.8	5.4	8.0





#81

Benzo(a)anthracene

Concen: 23.252 ng

RT: 21.77 min Scan# 3180

Delta R.T. 0.01 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Instrument :

BNA_G

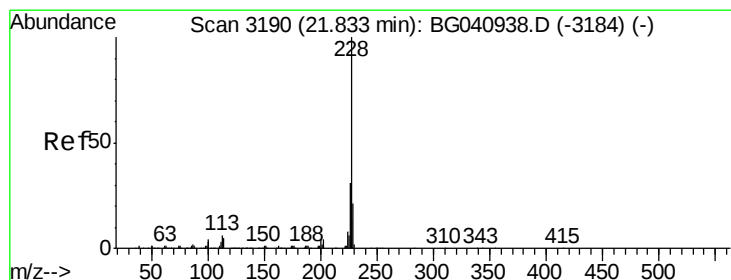
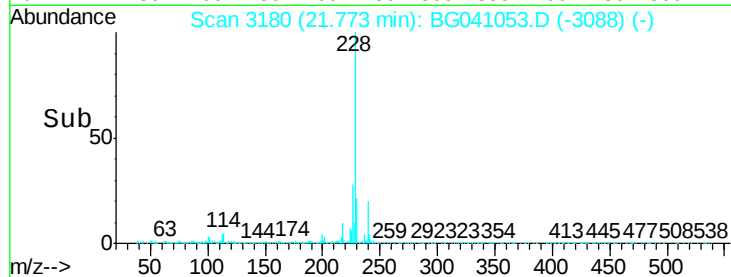
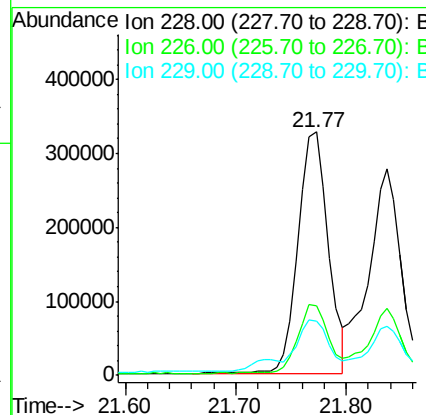
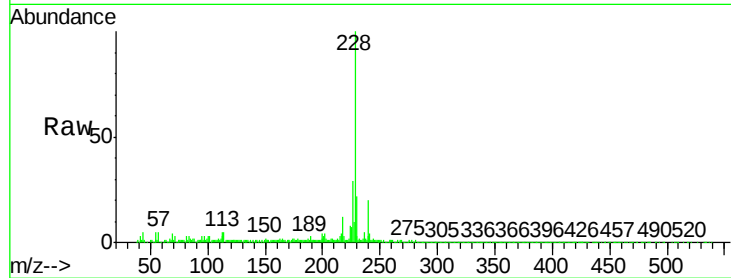
ClientSampleId :

CL-02-053119-E

Tot Ion:	228	Resp:	612320
Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.5	35.3
229	22.4	16.7	25.1

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#83

Chrysene

Concen: 22.644 ng

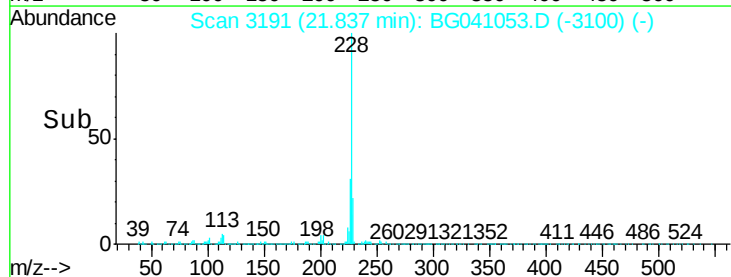
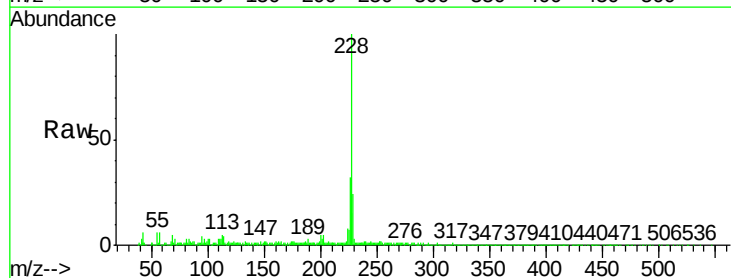
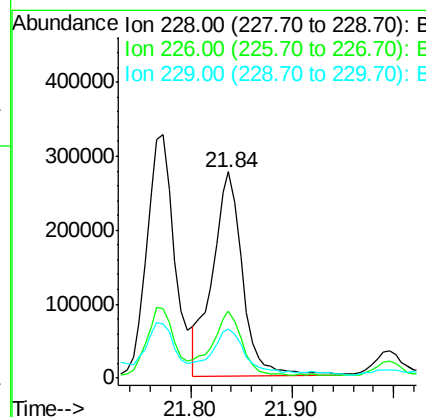
RT: 21.84 min Scan# 3191

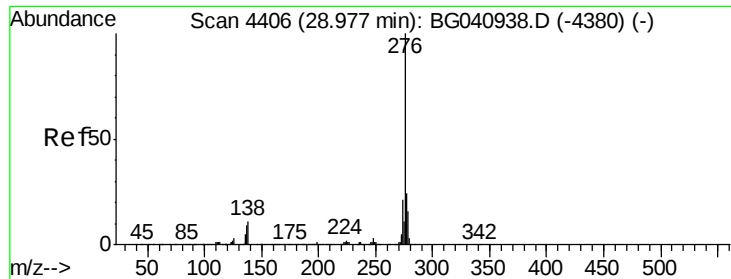
Delta R.T. 0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Tgt Ion:	228	Resp:	570642
Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	23.8	16.6	24.8





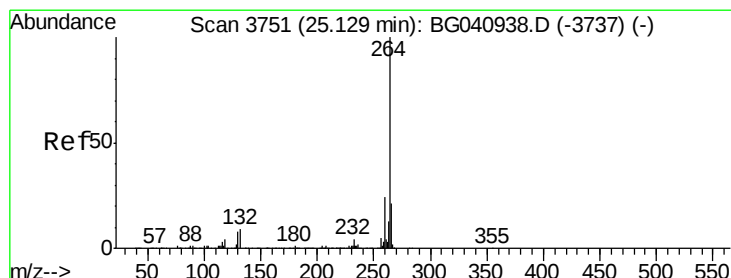
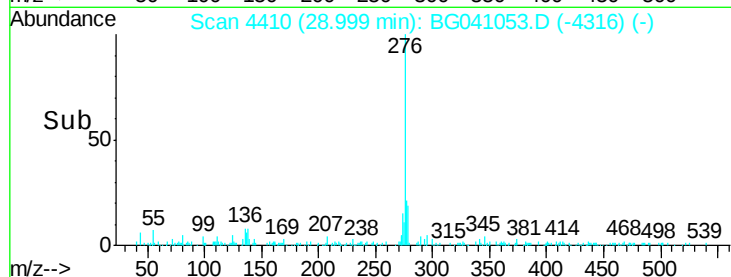
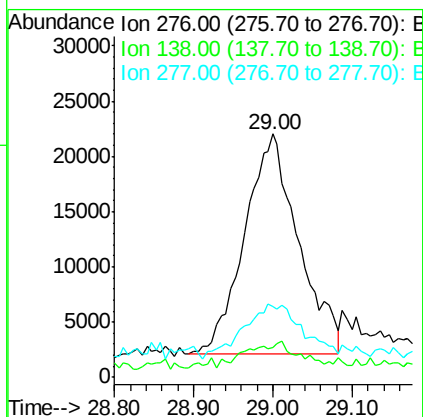
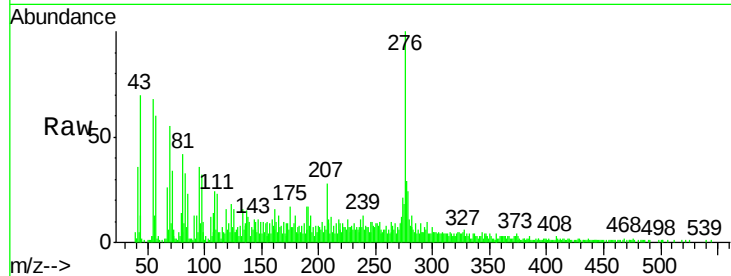
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.069 ng
RT: 29.00 min Scan# 4410
Delta R.T. 0.02 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
276	100		
138	5.3	5.7	8.5#
277	27.3	20.8	31.2

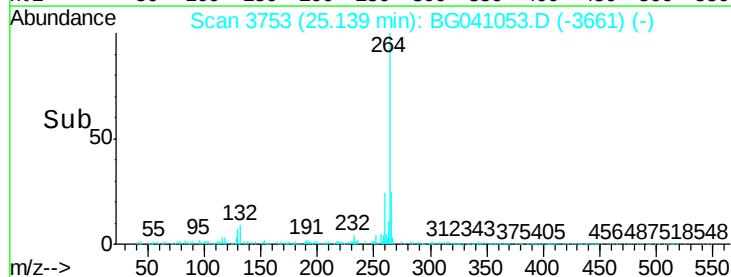
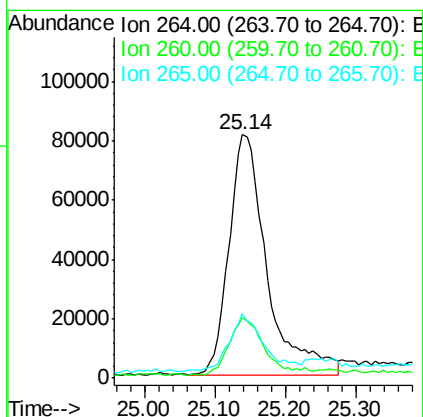
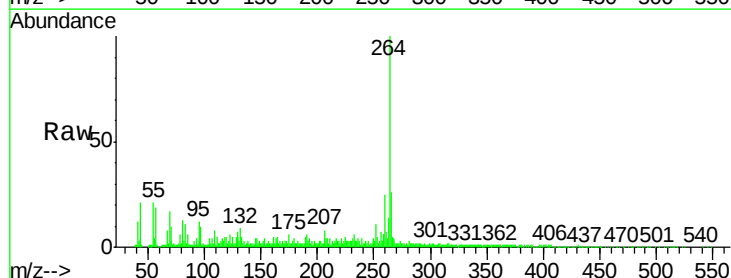
Manual Integrations
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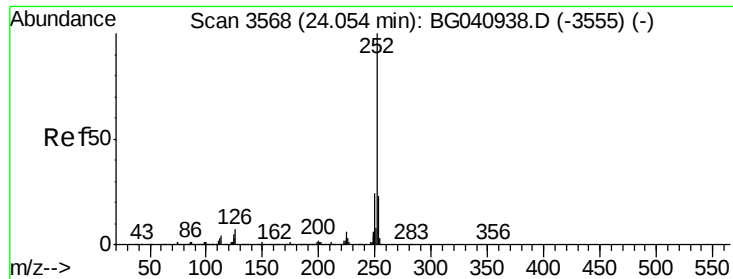
mohammad
6/5/2019 8:35:45 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 25.14 min Scan# 3753
Delta R.T. 0.01 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.0	28.4
265	26.4	17.0	25.4#





#88

Benzo(b)fluoranthene

Concen: 22.191 ng

RT: 24.07 min Scan# 3571

Delta R.T. 0.02 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Instrument :

BNA_G

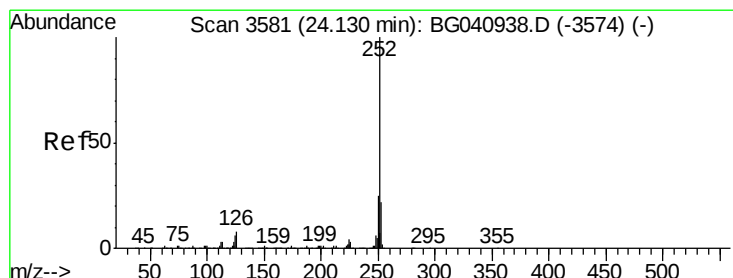
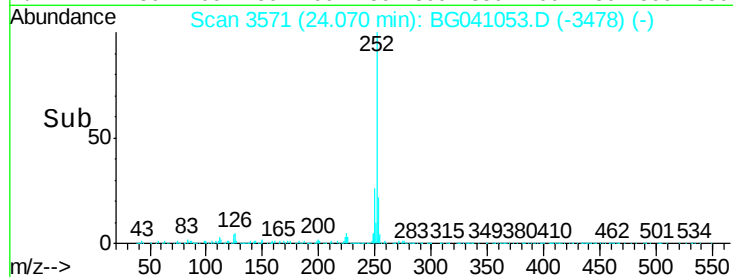
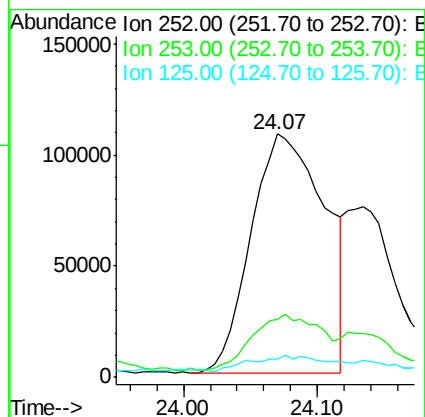
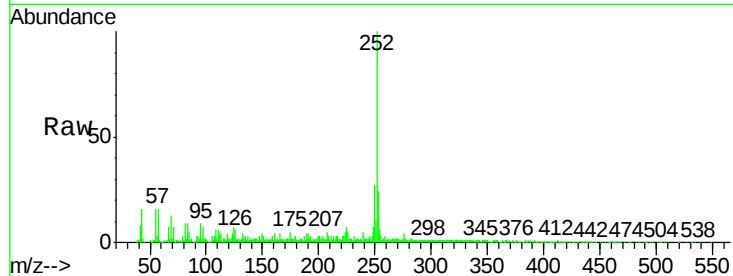
ClientSampleId :

CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	7.5	4.3	6.5

Manual Integrations
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mohammad
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#89

Benzo(k)fluoranthene

Concen: 12.115 ng m

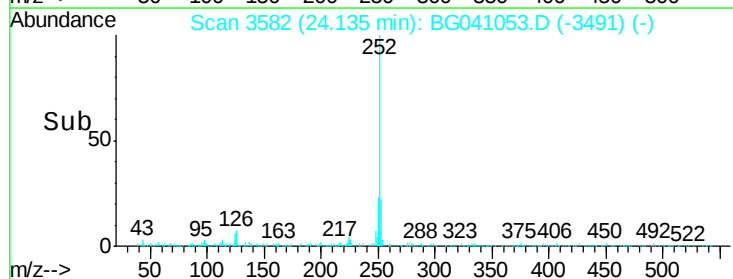
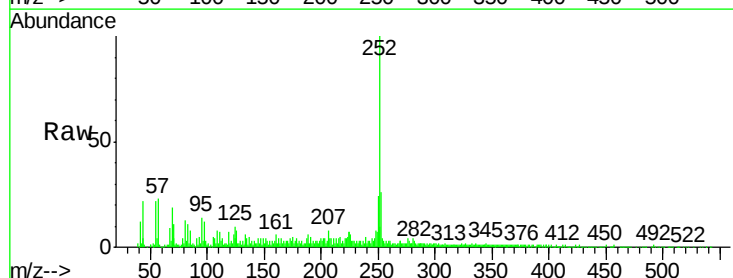
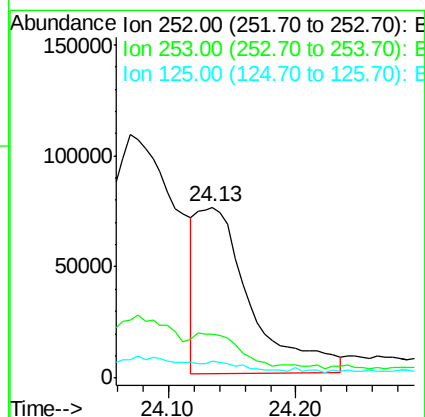
RT: 24.13 min Scan# 3582

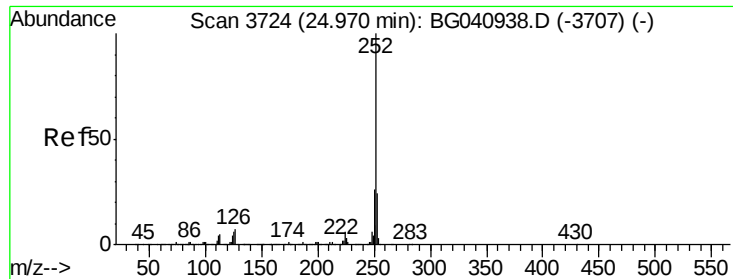
Delta R.T. 0.00 min

Lab File: BG041053.D

Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.8	26.6
125	9.9	4.7	7.1





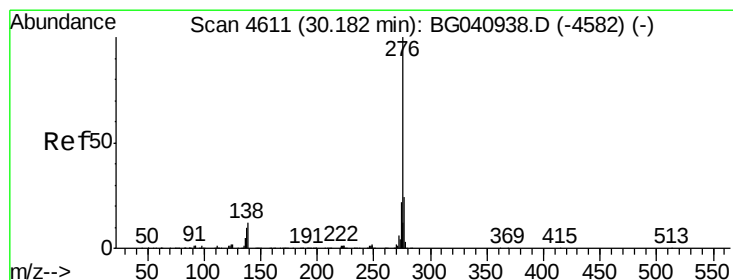
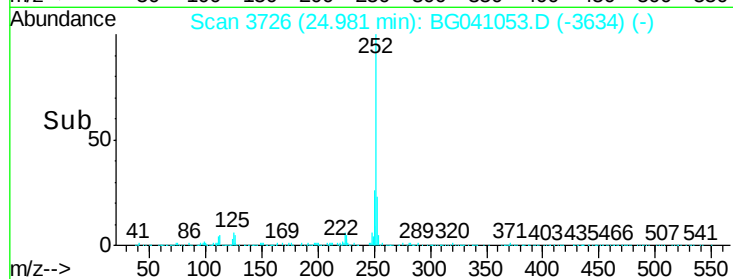
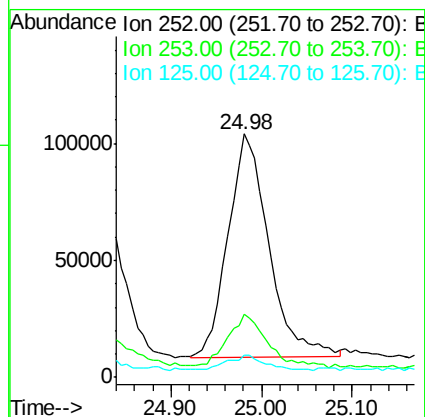
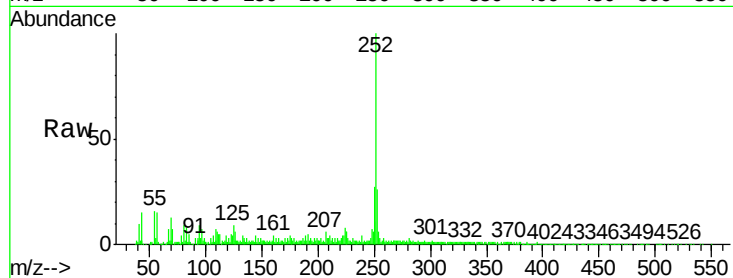
#90
Benzo(a)pyrene
Concen: 16.852 ng
RT: 24.98 min Scan# 3726
Delta R.T. 0.01 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Instrument :
BNA_G
ClientSampleId :
CL-02-053119-E

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	8.9	5.1	7.7

Manual Integrations
APPROVED

mohammad
6/5/2019 8:35:45 AM



#92
Benzo(g,h,i)perylene
Concen: 4.478 ng
RT: 30.21 min Scan# 4616
Delta R.T. 0.03 min
Lab File: BG041053.D
Acq: 4 Jun 2019 3:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	37.4	19.4	29.0
138	16.4	9.7	14.5

