

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101619\
 Data File : BG043254.D
 Acq On : 16 Oct 2019 20:53
 Operator : JU
 Sample : K5350-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Manual Integrations
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mohammad
 10/18/2019 8:26:05 AM

Quant Time: Oct 17 11:05:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 09 01:11:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	54349	20.00	ng	0.00
21) Naphthalene-d8	10.86	136	203131	20.00	ng	0.00
39) Acenaphthene-d10	14.67	164	141873	20.00	ng	0.00
64) Phenanthrene-d10	17.43	188	320262	20.00	ng	0.01
76) Chrysene-d12	21.71	240	348633	20.00	ng	0.02
87) Perylene-d12	24.93	264	405843	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.63	112	350854	115.21	ng	0.00
7) Phenol-d6	7.22	99	492407	112.28	ng	0.00
23) Nitrobenzene-d5	9.21	82	306222	73.27	ng	0.00
42) 2,4,6-Tribromophenol	16.17	330	278063	113.98	ng	0.00
45) 2-Fluorobiphenyl	13.30	172	734865	75.09	ng	0.00
79) Terphenyl-d14	20.03	244	1290915	78.90	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	10.91	128	3035722	303.591	ng	# 92
37) 2-Methylnaphthalene	12.51	142	901251	118.146	ng	95
38) 1-Methylnaphthalene	12.73	142	702997	97.393	ng	100
46) 1,1'-Biphenyl	13.51	154	506209	47.050	ng	99
49) Acenaphthylene	14.40	152	87729	7.108	ng	# 81
50) Dimethylphthalate	14.13	163	92508	8.703	ng	98
52) Acenaphthene	14.75	154	1107203	134.017	ng	99
55) Dibenzofuran	15.08	168	2099117	171.758	ng	# 93
58) Fluorene	15.74	166	2341014	224.362	ng	# 97
71) Phenanthrene	17.50	178	6111746	390.894	ng	# 44
72) Anthracene	17.60	178	7438527	476.556	ng	# 20
73) Carbazole	17.85	167	3715751	256.709	ng	# 81
75) Fluoranthene	19.49	202	3867661	187.020	ng	79
78) Pyrene	19.85	202	3139175	150.860	ng	# 83
81) Benzo(a)anthracene	21.68	228	1504446	69.256	ng	96
83) Chrysene	21.75	228	1663667	78.919	ng	94
86) Indeno(1,2,3-cd)pyrene	28.61	276	376793	14.358	ng	# 97
88) Benzo(b)fluoranthene	23.92	252	1048218	45.647	ng	98
89) Benzo(k)fluoranthene	23.98	252	451654m	19.881	ng	
90) Benzo(a)pyrene	24.78	252	791549	36.535	ng	97
91) Dibenzo(a,h)anthracene	28.66	278	109012	4.907	ng	95
92) Benzo(g,h,i)perylene	29.75	276	326855	15.184	ng	98

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

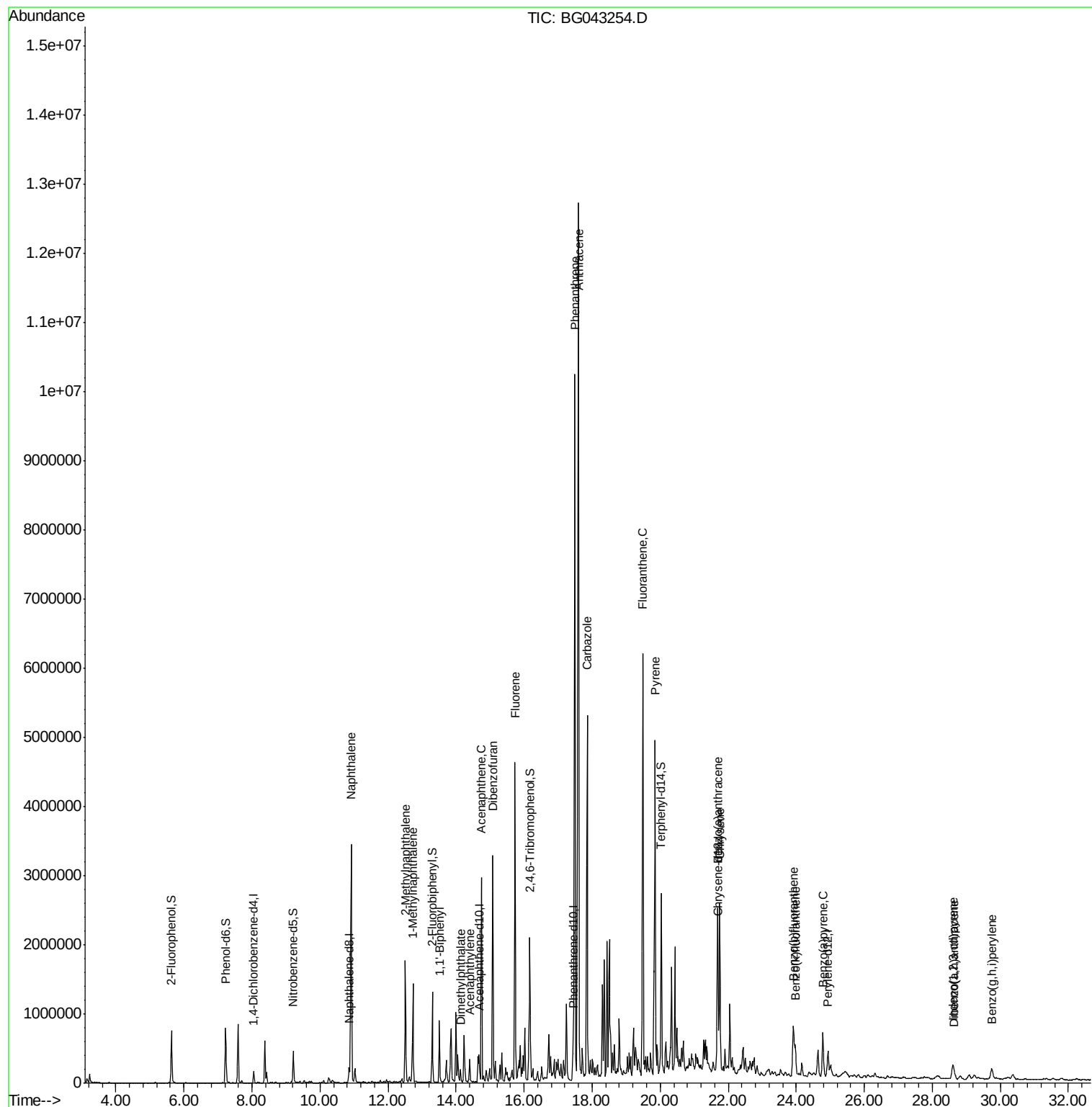
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101619\
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ALS Vial : 10 Sample Multiplier: 1

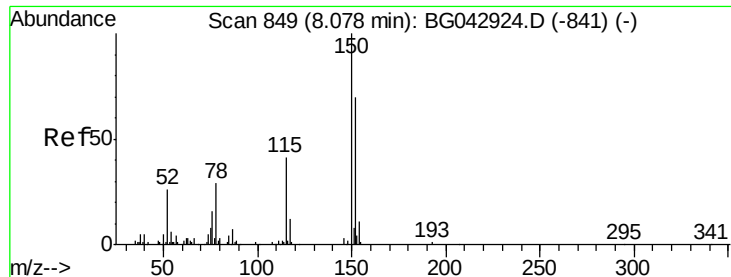
Instrument :
BNA_G
ClientSampleId :
VNJ-209

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10/18/2019 8:26:05 AM

Quant Time: Oct 17 11:05:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

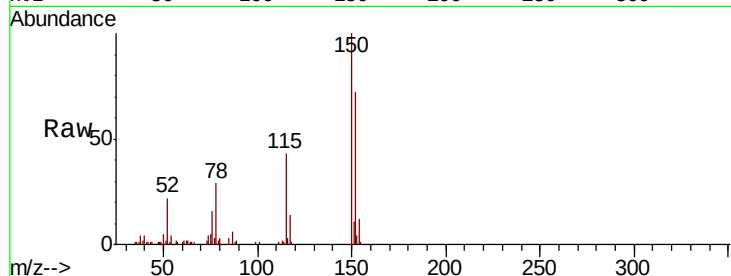
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.05 min Scan# 845
Delta R.T. -0.01 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
152	100		
150	139.4	115.0	172.4
115	59.7	47.0	70.6

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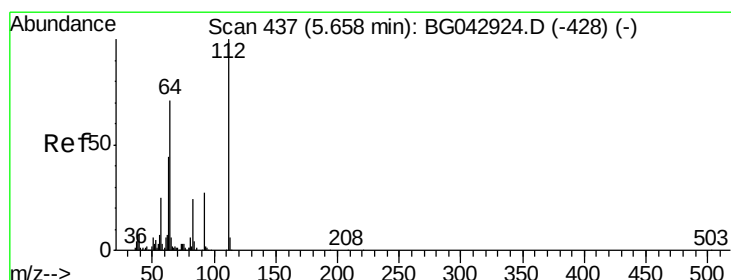
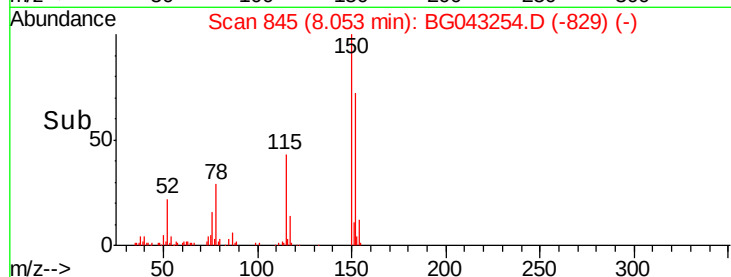
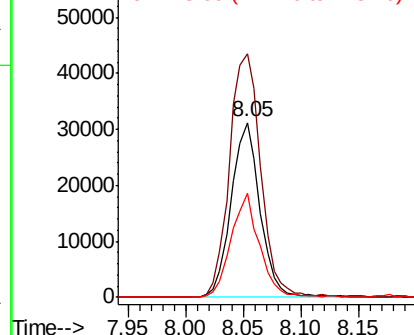


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

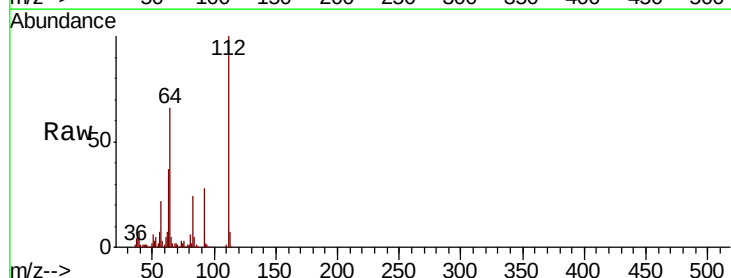
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 115.208 ng
RT: 5.63 min Scan# 433
Delta R.T. -0.01 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.9	56.6	84.8
63	36.9	35.1	52.7

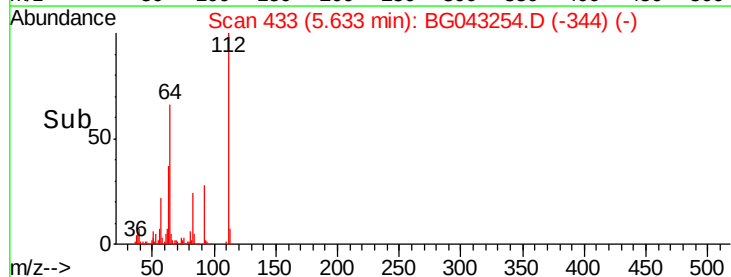
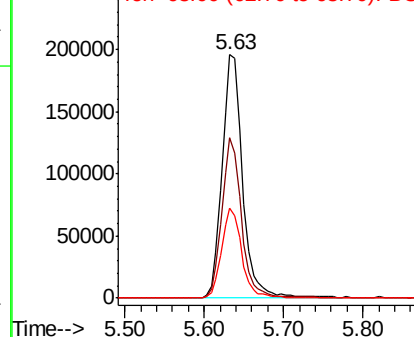


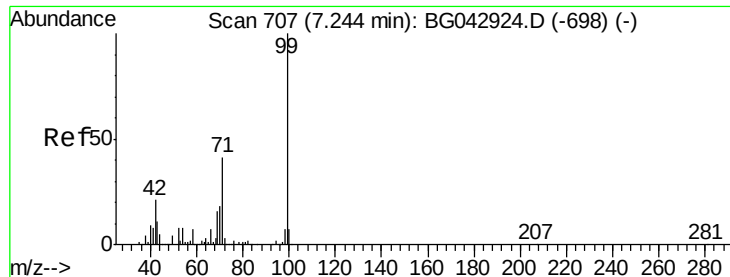
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 112.279 ng

RT: 7.22 min Scan# 704

Delta R.T. -0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

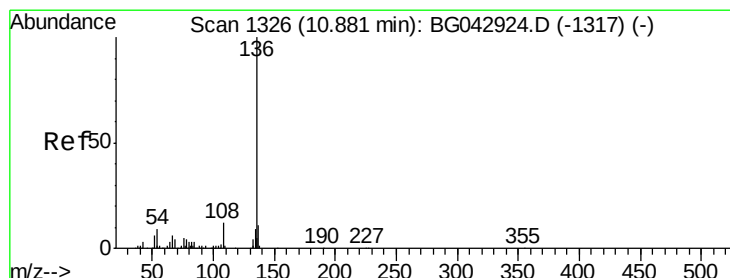
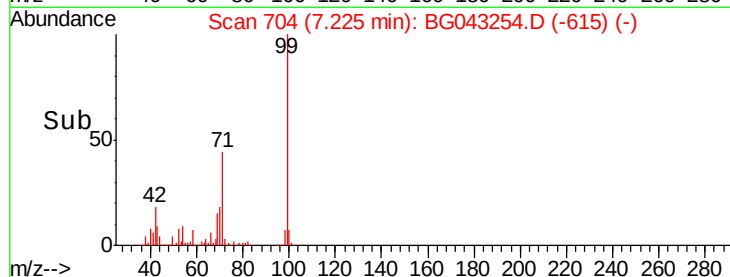
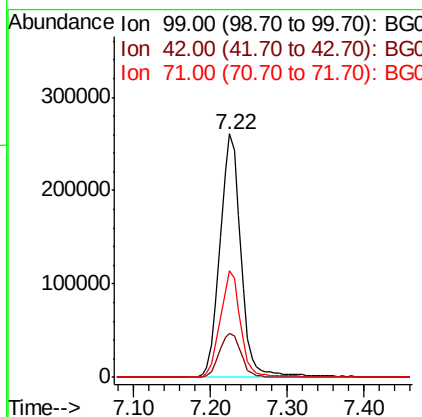
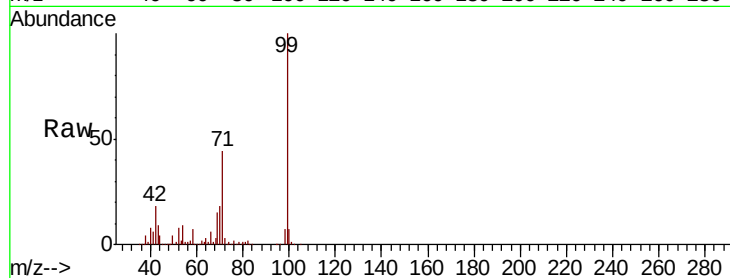
ClientSampleId :

VNJ-209

Tot Ion:	99	Resp:	492407
Ion Ratio	Lower	Upper	
99	100		
42	18.1	17.2	25.8
71	44.0	33.1	49.7

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#21

Naphthalene-d8

Concen: 20.000 ng

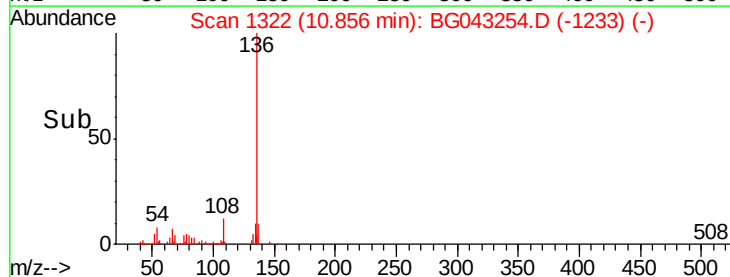
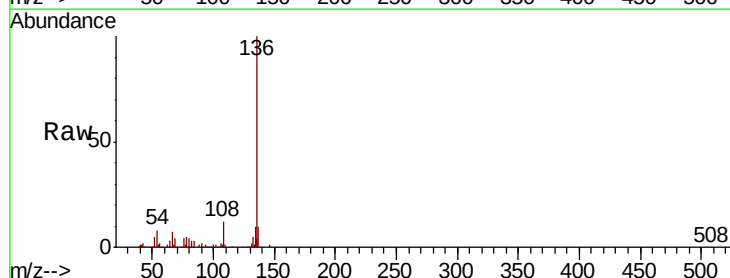
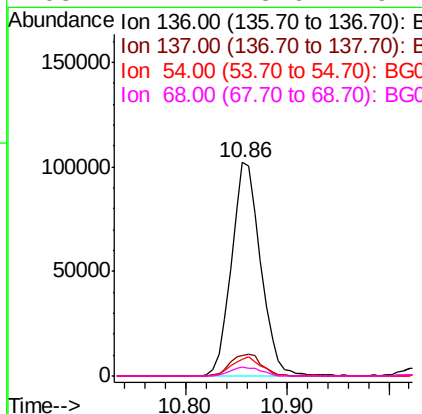
RT: 10.86 min Scan# 1322

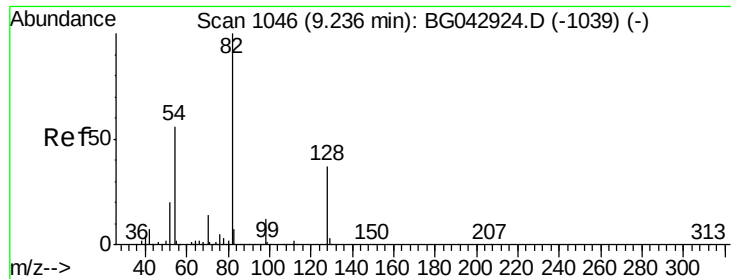
Delta R.T. -0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Tgt Ion:	136	Resp:	203131
Ion Ratio	Lower	Upper	
136	100		
137	9.8	8.5	12.7
54	7.6	7.4	11.2
68	4.4	3.6	5.4





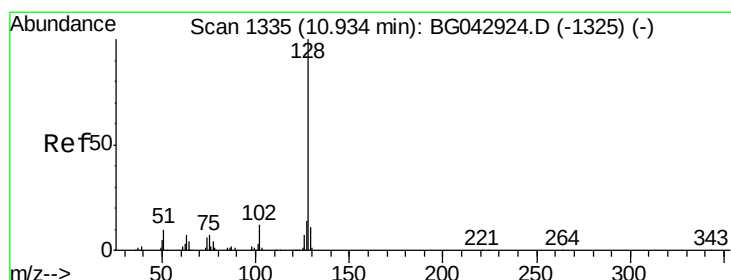
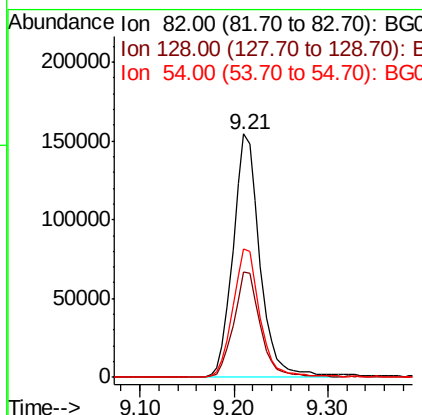
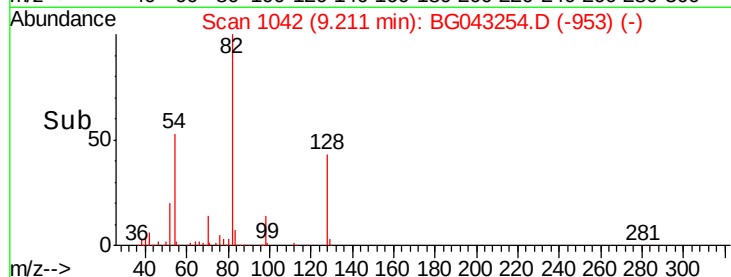
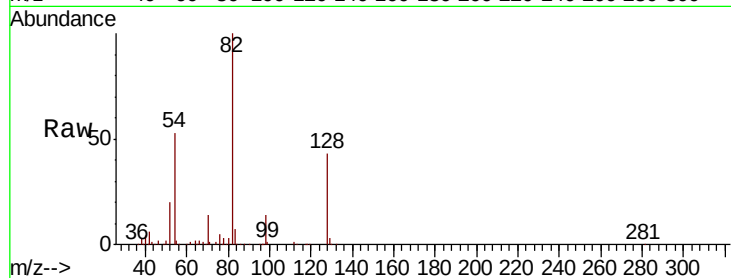
#23
 Nitrobenzene-d5
 Concen: 73.273 ng
 RT: 9.21 min Scan# 1042
 Delta R.T. -0.01 min
 Lab File: BG043254.D
 Acq: 16 Oct 2019 20:53

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.2	29.5	44.3
54	53.0	44.6	67.0

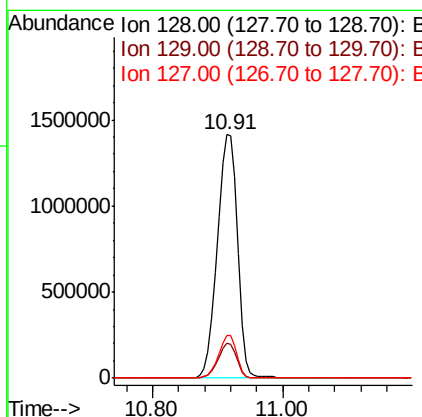
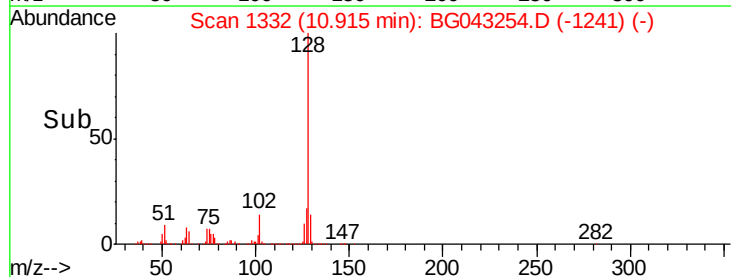
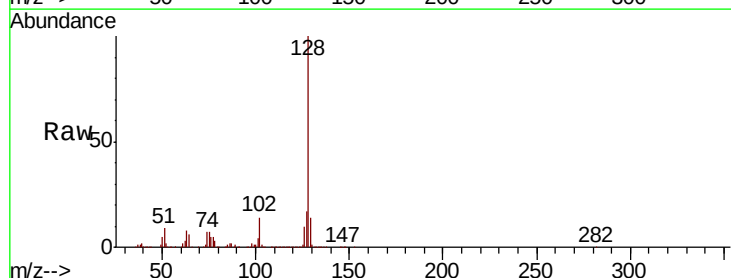
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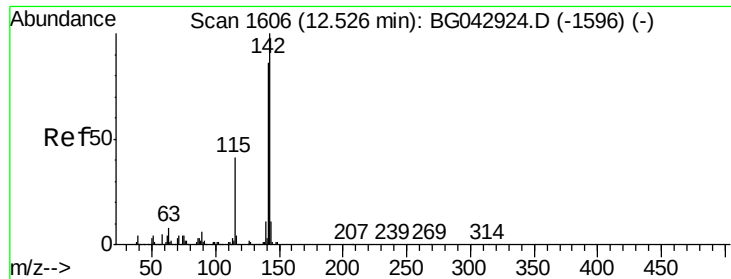
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#31
 Naphthalene
 Concen: 303.591 ng
 RT: 10.91 min Scan# 1332
 Delta R.T. 0.01 min
 Lab File: BG043254.D
 Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.5	8.8	13.2#
127	17.3	11.3	16.9#





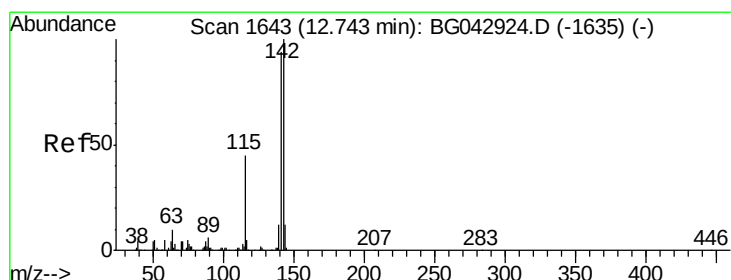
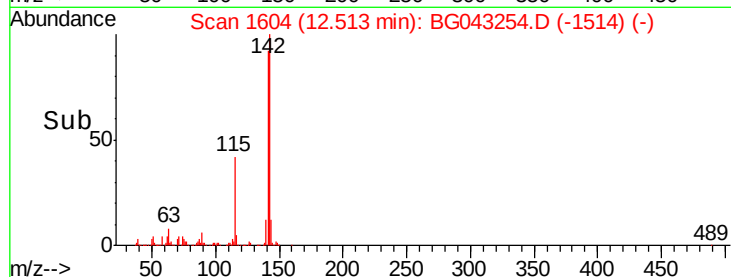
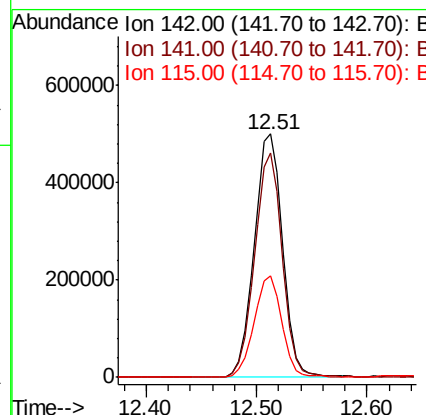
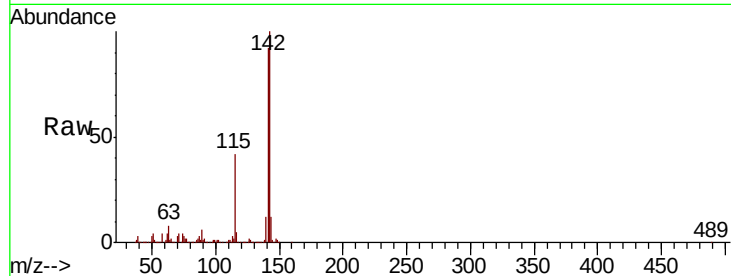
#37
2-Methylnaphthalene
Concen: 118.146 ng
RT: 12.51 min Scan# 1604
Delta R.T. -0.00 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.2	69.0	103.4
115	41.7	32.8	49.2

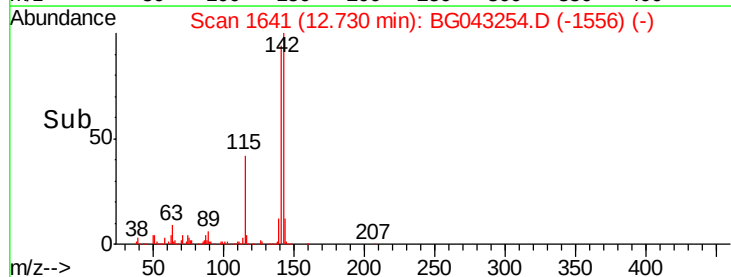
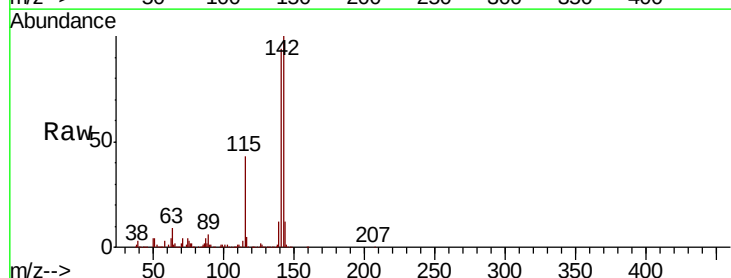
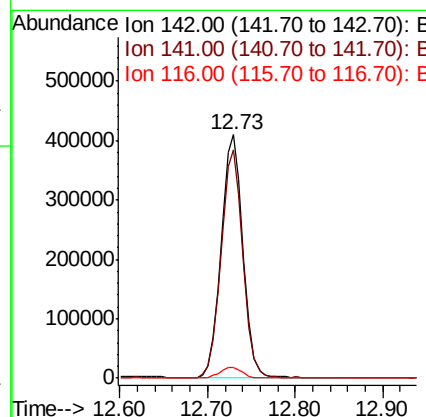
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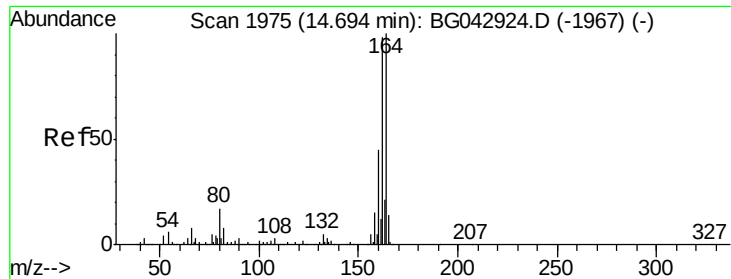
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#38
1-Methylnaphthalene
Concen: 97.393 ng
RT: 12.73 min Scan# 1641
Delta R.T. -0.00 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.0	74.9	112.3
116	4.6	3.7	5.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.67 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

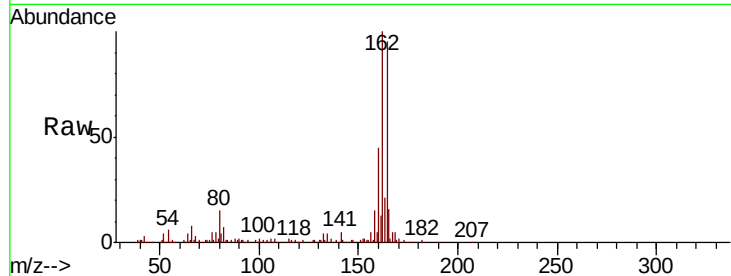
ClientSampleId :

VNJ-209

Tot Ion:	164	Resp:	141873
Ion Ratio	Lower	Upper	
164	100		
162	105.1	78.5	117.7
160	46.8	35.9	53.9

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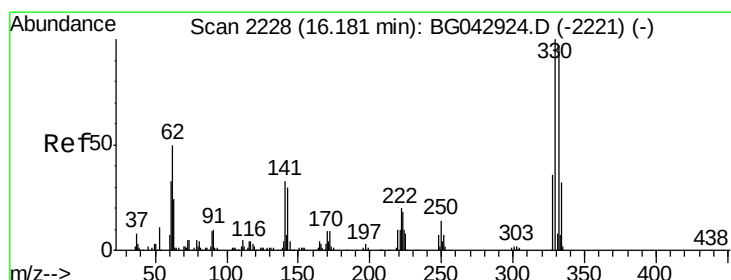
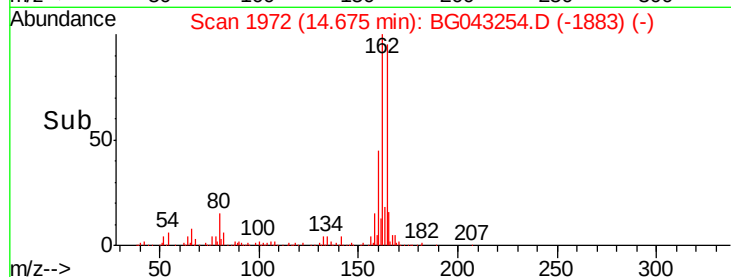
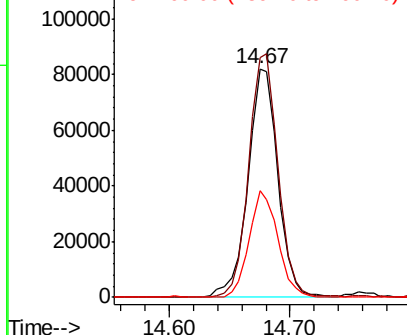


Abundance

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: 113.979 ng

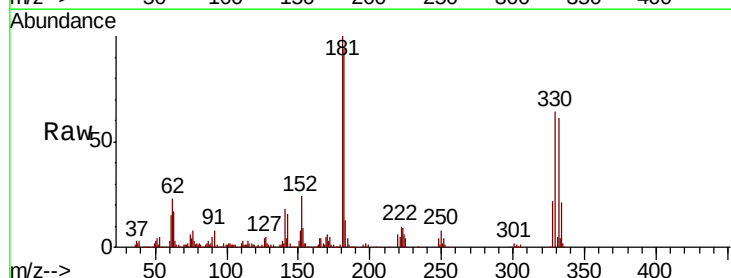
RT: 16.17 min Scan# 2227

Delta R.T. 0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Tgt Ion:	330	Resp:	278063
Ion Ratio	Lower	Upper	
330	100		
332	98.0	78.2	117.2
141	28.7	26.0	39.0

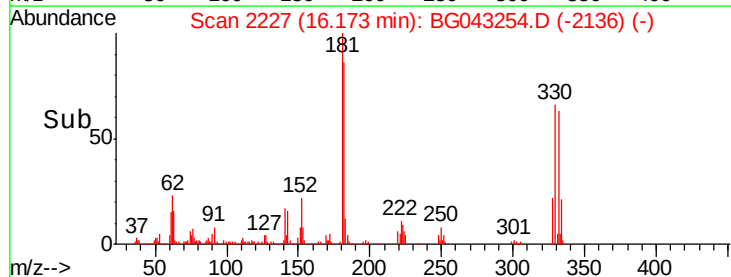
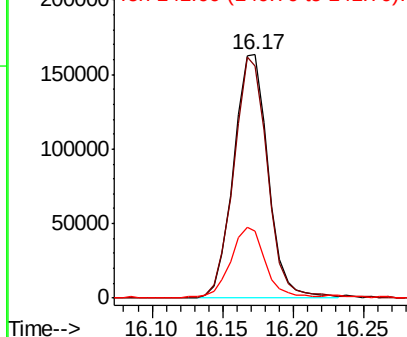


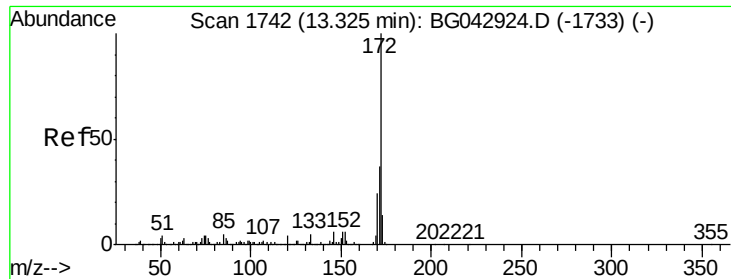
Abundance

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





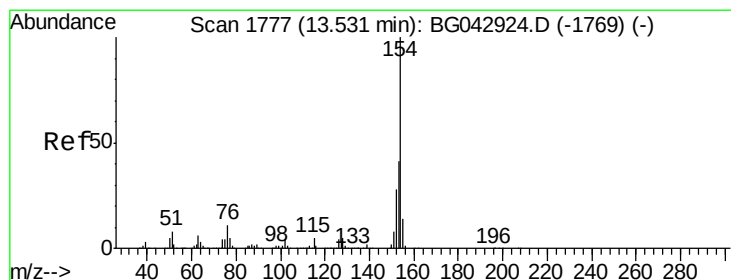
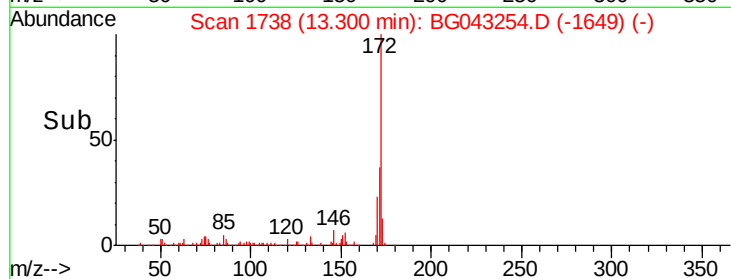
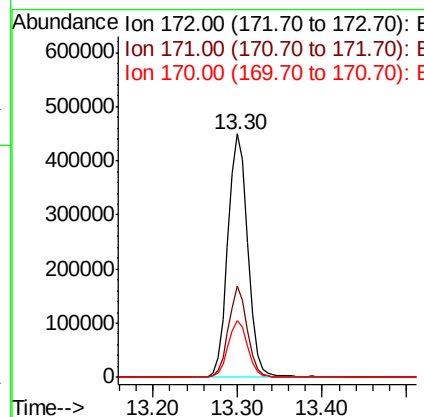
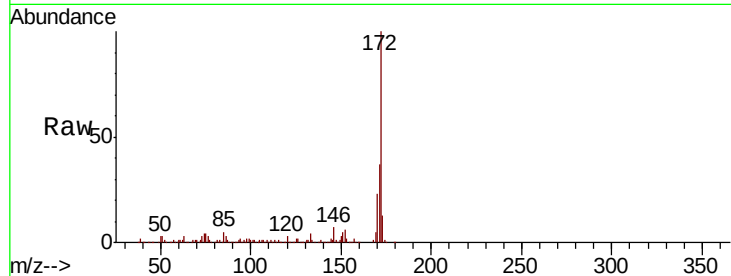
#45
2-Fluorobiphenyl
Concen: 75.091 ng
RT: 13.30 min Scan# 1738
Delta R.T. -0.01 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.6	44.4
170	23.4	19.6	29.4

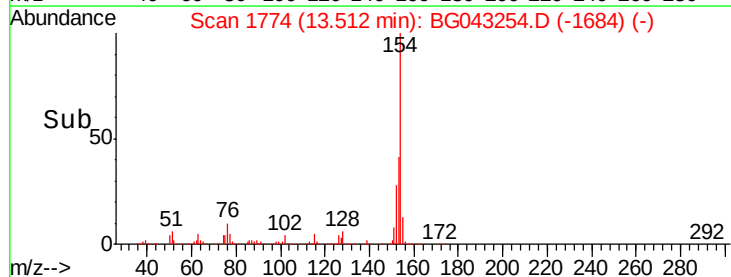
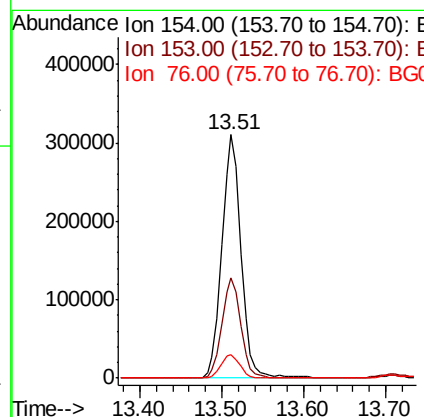
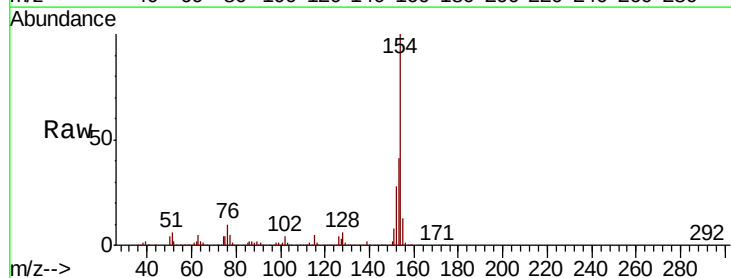
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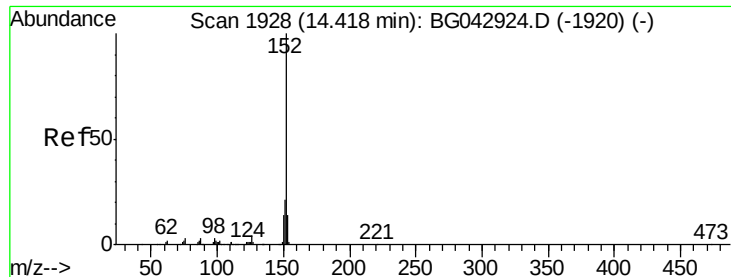
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#46
1,1'-Biphenyl
Concen: 47.050 ng
RT: 13.51 min Scan# 1774
Delta R.T. -0.00 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	9.7	0.0	31.3





#49

Acenaphthylene

Concen: 7.108 ng

RT: 14.40 min Scan# 1926

Delta R.T. 0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

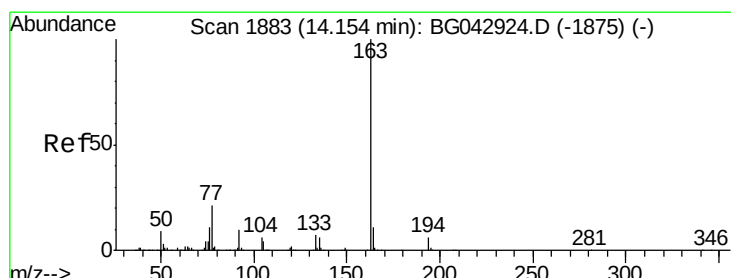
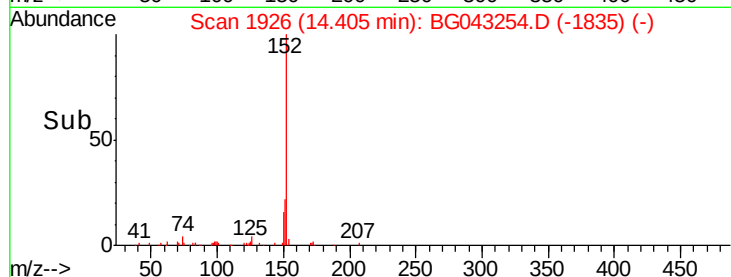
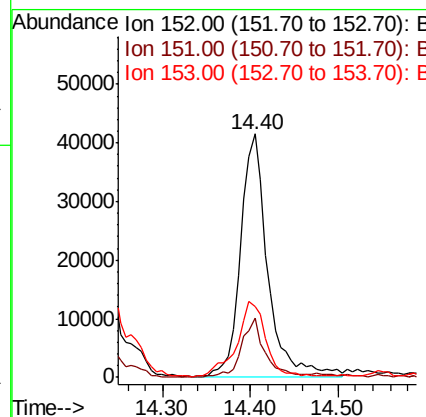
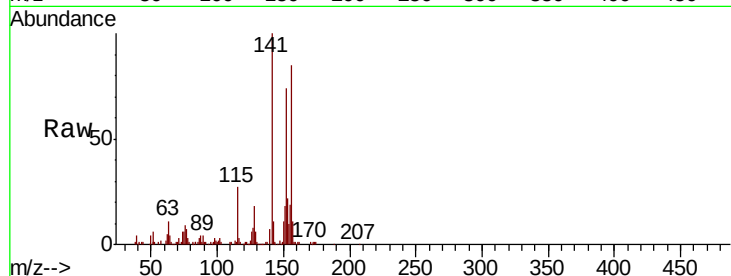
ClientSampleId :

VNJ-209

Tot Ion:	152	Resp:	87729
Ion Ratio	Lower	Upper	
152	100		
151	24.3	16.8	25.2
153	29.1	11.3	16.9#

Manual Integrations
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#50

Dimethylphthalate

Concen: 8.703 ng

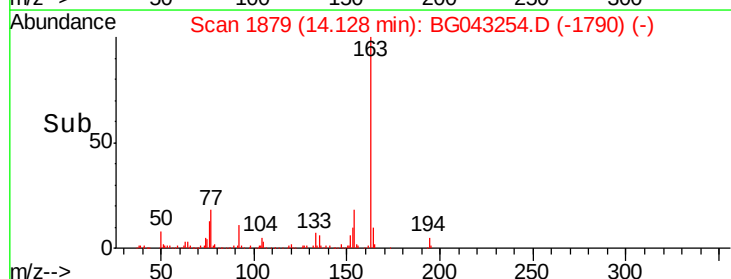
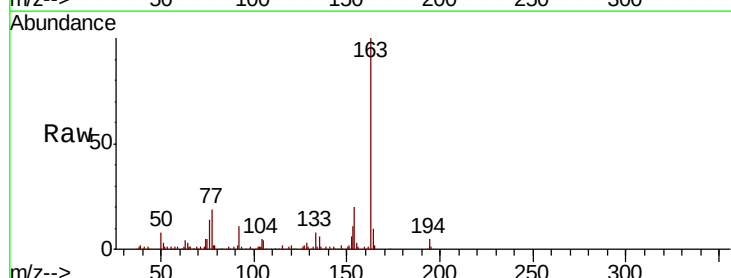
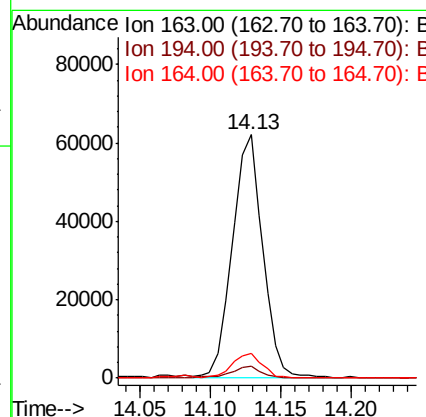
RT: 14.13 min Scan# 1879

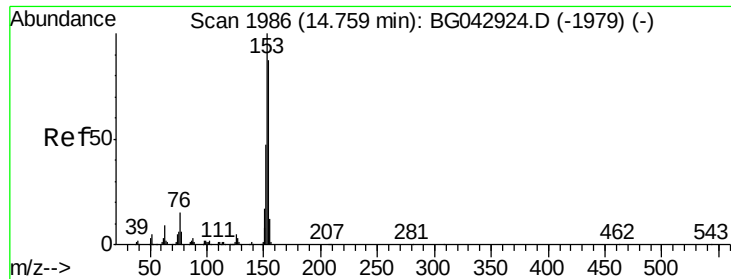
Delta R.T. -0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Tgt Ion:	163	Resp:	92508
Ion Ratio	Lower	Upper	
163	100		
194	5.1	4.4	6.6
164	9.9	8.6	12.8





#52

Acenaphthene

Concen: 134.017 ng

RT: 14.75 min Scan# 1984

Delta R.T. -0.00 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

ClientSampled :

VNJ-209

Tot Ion:154 Resp: 1107203

Ion Ratio Lower Upper

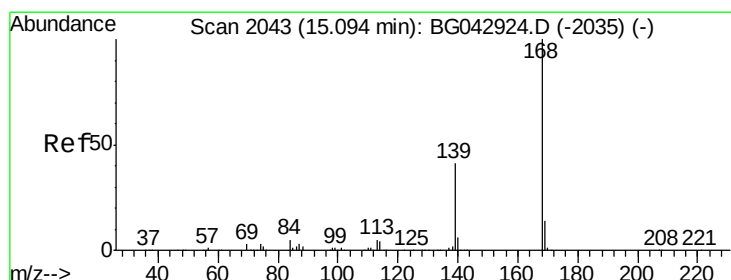
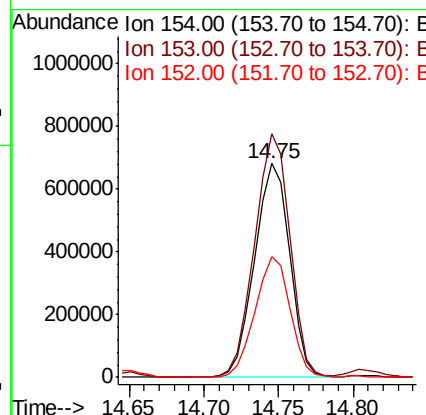
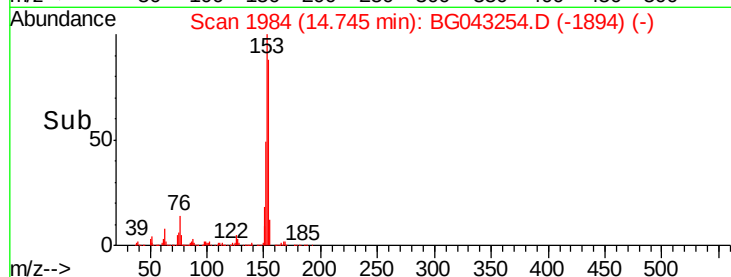
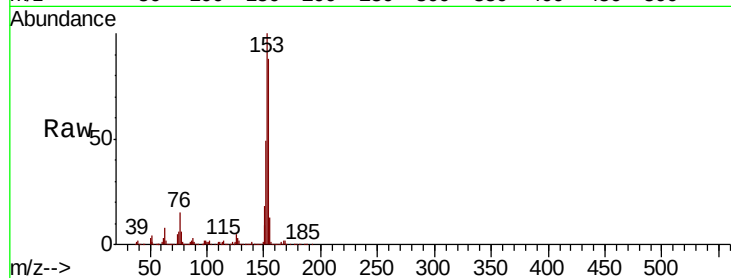
154 100

153 114.0 91.4 137.0

152 56.3 42.8 64.2

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#55

Dibenzofuran

Concen: 171.758 ng

RT: 15.08 min Scan# 2041

Delta R.T. 0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

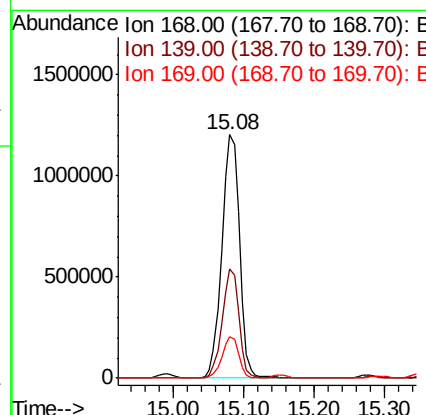
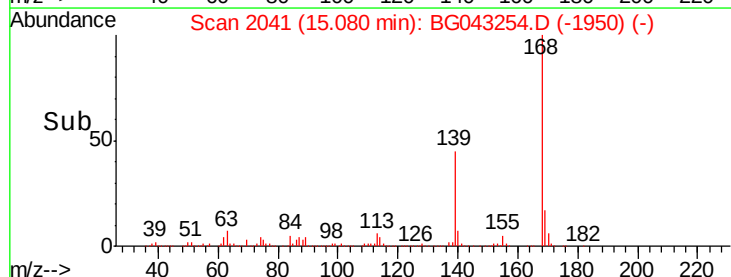
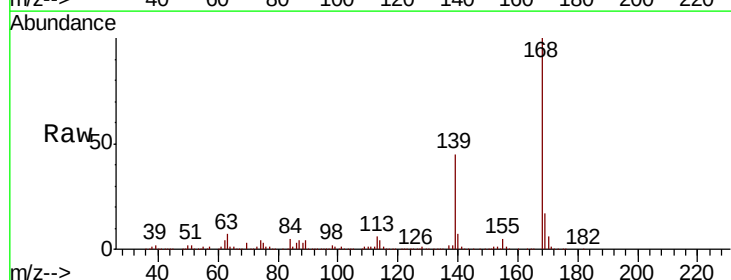
Tgt Ion:168 Resp: 2099117

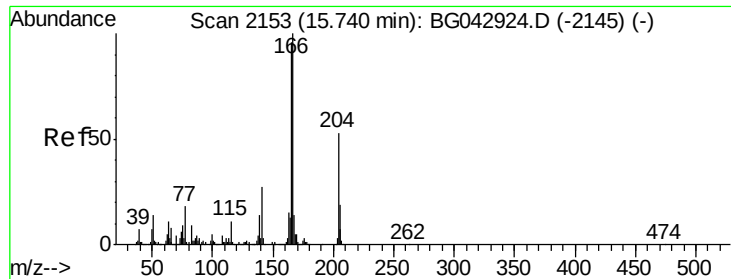
Ion Ratio Lower Upper

168 100

139 44.6 32.6 48.8

169 17.0 11.2 16.8#





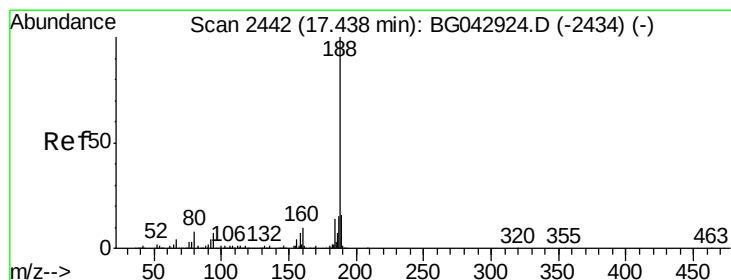
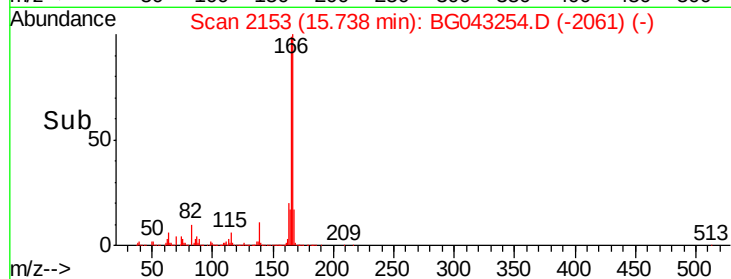
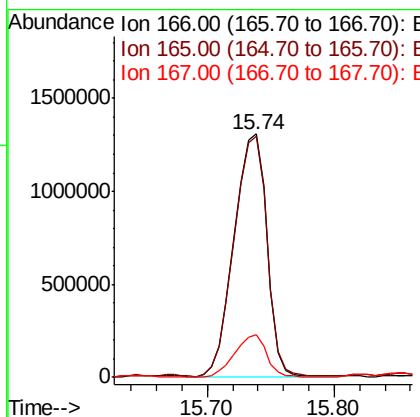
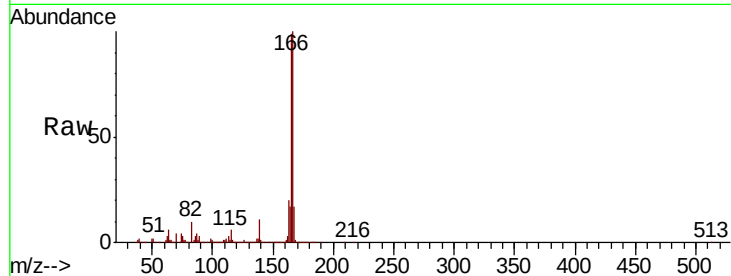
#58
 Fluorene
 Concen: 224.362 ng
 RT: 15.74 min Scan# 2153
 Delta R.T. 0.01 min
 Lab File: BG043254.D
 Acq: 16 Oct 2019 20:53

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.1	77.1	115.7
167	17.3	11.0	16.6#

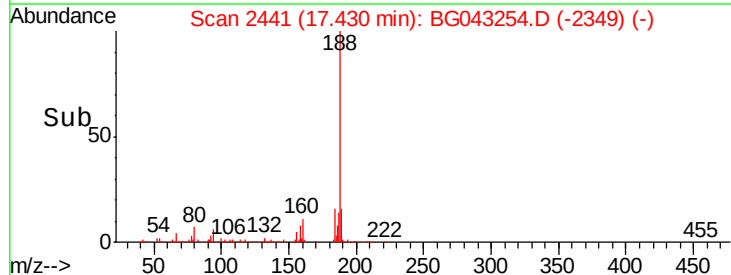
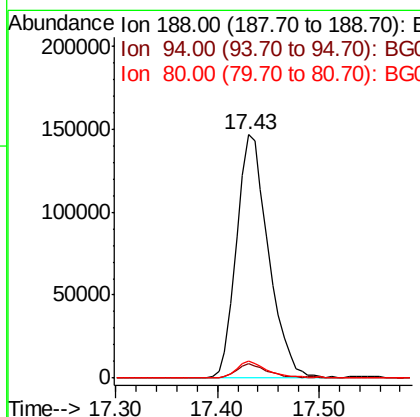
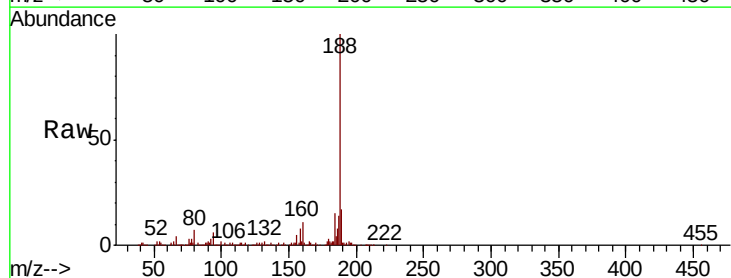
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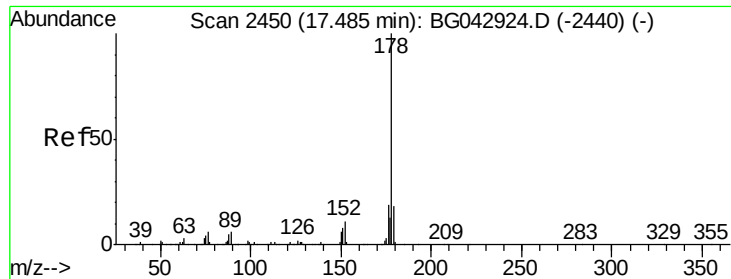
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.43 min Scan# 2441
 Delta R.T. 0.01 min
 Lab File: BG043254.D
 Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.1	5.7	8.5
80	7.0	6.5	9.7





#71

Phenanthrene

Concen: 390.894 ng

RT: 17.50 min Scan# 2452

Delta R.T. 0.03 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

ClientSampled :

VNJ-209

Tot Ion:178 Resp: 6111746

Ion Ratio Lower Upper

178 100

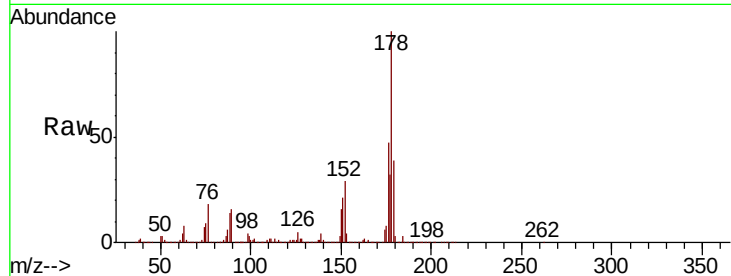
176 47.1 15.1 22.7#

179 39.0 14.1 21.1#

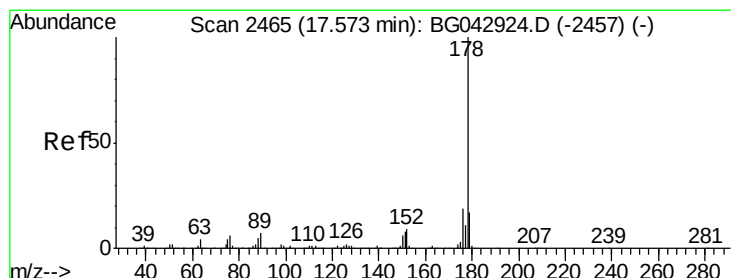
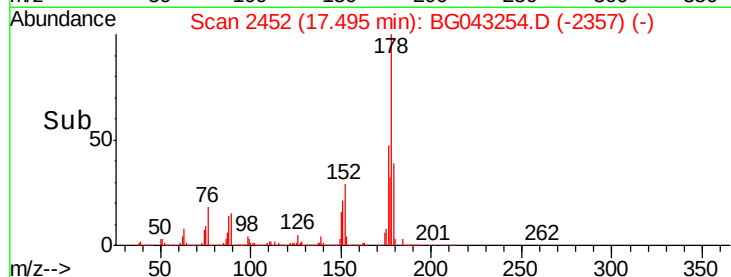
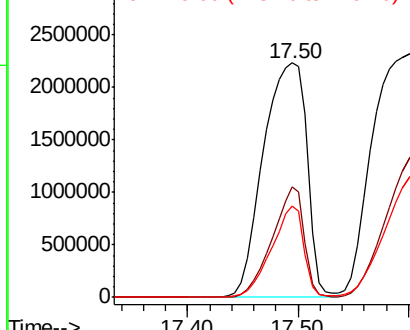
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 476.556 ng

RT: 17.60 min Scan# 2470

Delta R.T. 0.05 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Tgt Ion:178 Resp: 7438527

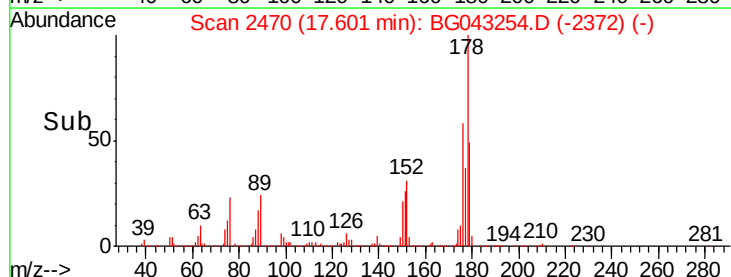
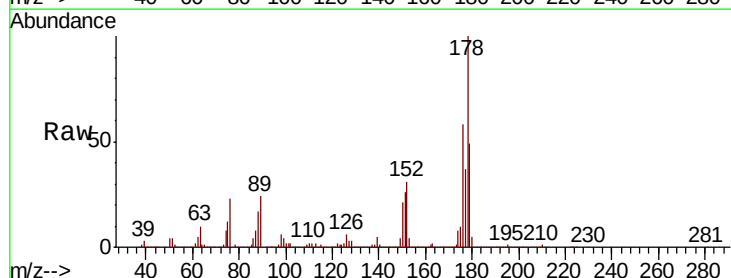
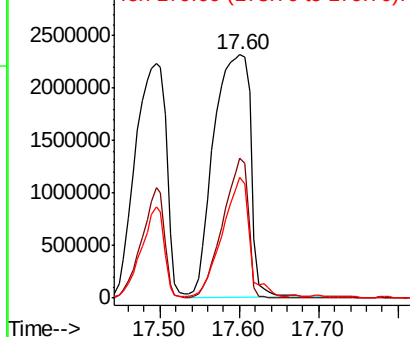
Ion Ratio Lower Upper

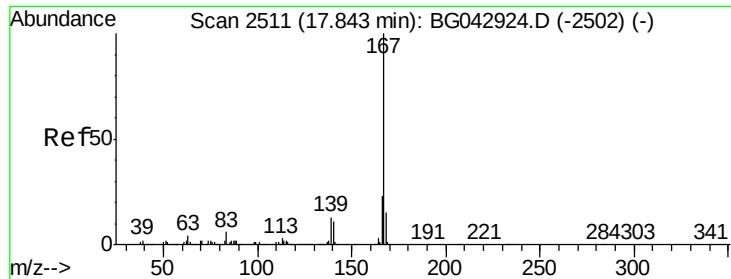
178 100

176 57.5 15.5 23.3#

179 49.5 13.5 20.3#

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





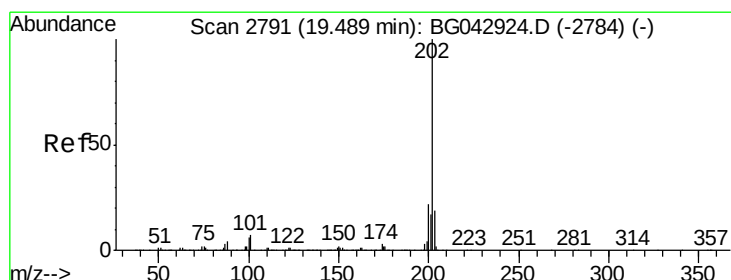
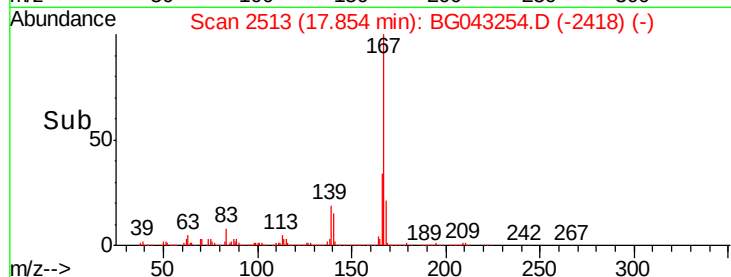
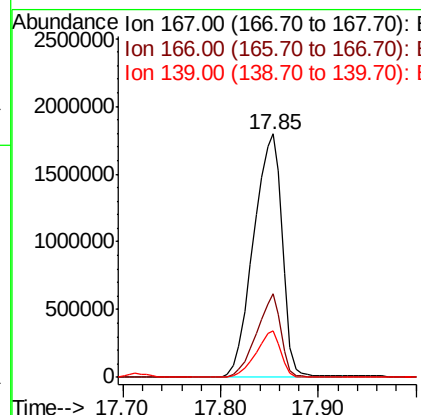
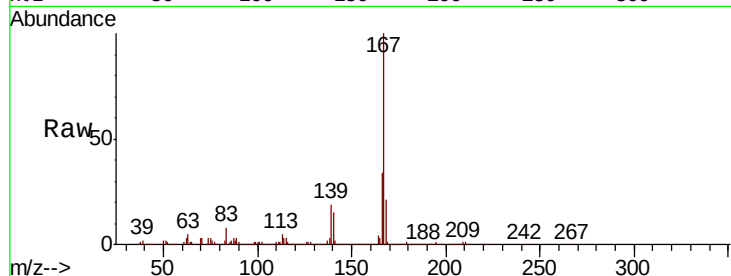
#73
 Carbazole
 Concen: 256.709 ng
 RT: 17.85 min Scan# 2513
 Delta R.T. 0.03 min
 Lab File: BG043254.D
 Acq: 16 Oct 2019 20:53

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Tot Ion	Ratio	Lower	Upper
167	100		
166	34.3	18.6	28.0#
139	19.2	10.8	16.2#

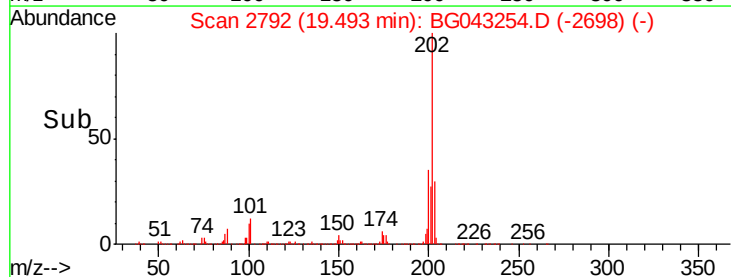
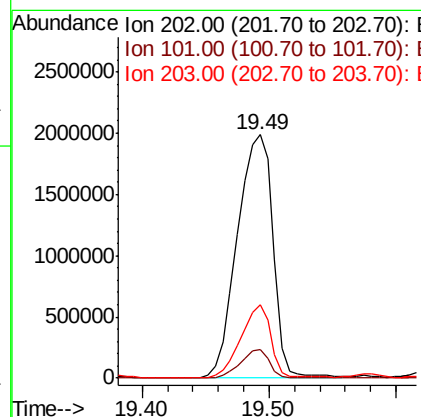
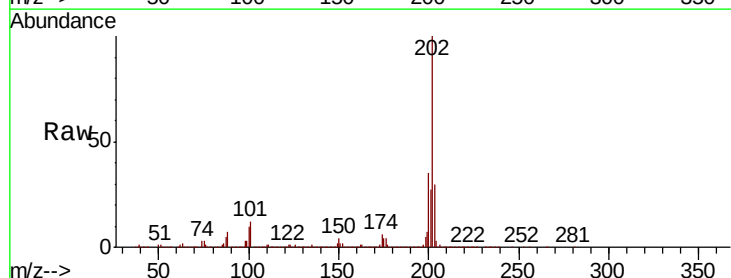
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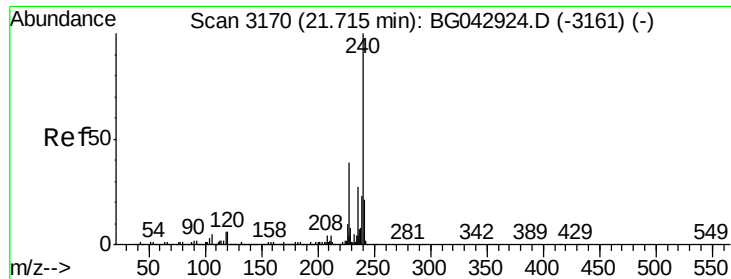
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#75
 Fluoranthene
 Concen: 187.020 ng
 RT: 19.49 min Scan# 2792
 Delta R.T. 0.02 min
 Lab File: BG043254.D
 Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	27.3
203	30.3	0.0	39.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.71 min Scan# 3169

Delta R.T. 0.02 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

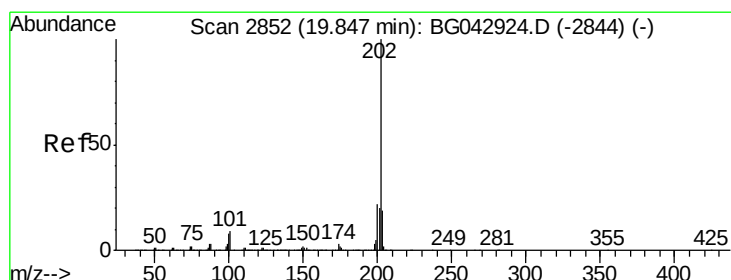
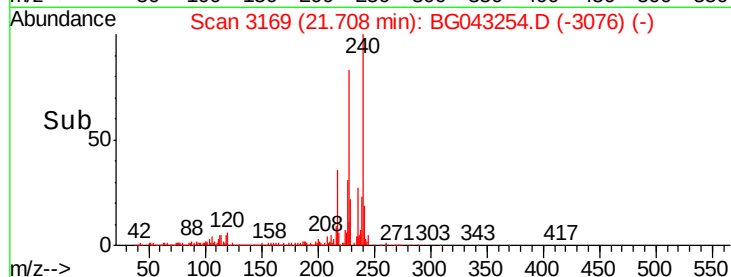
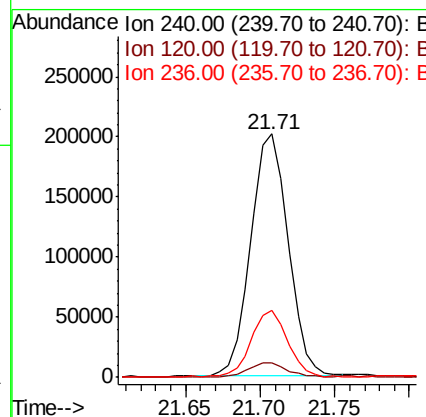
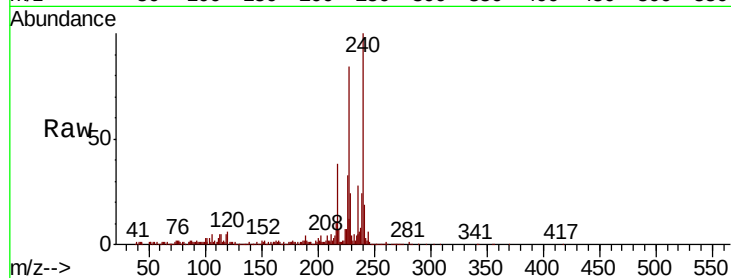
ClientSampled :

VNJ-209

Tot Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	5.7	4.8	7.2		
236	27.6	21.4	32.0		

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#78

Pyrene

Concen: 150.860 ng

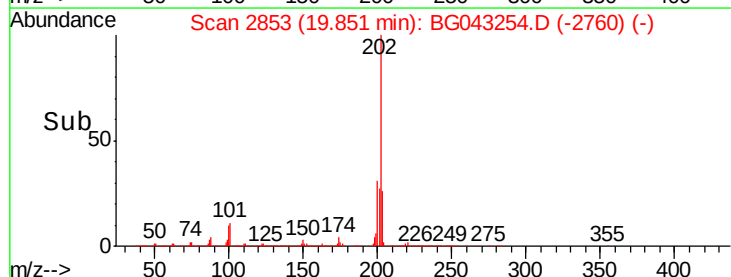
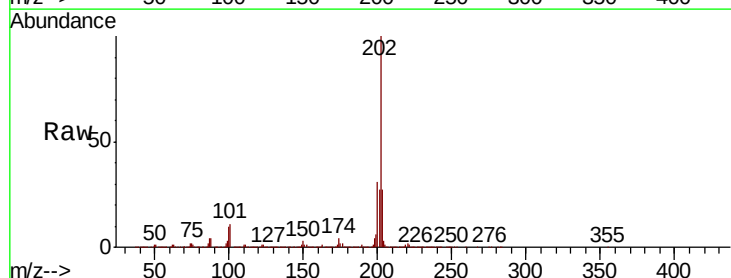
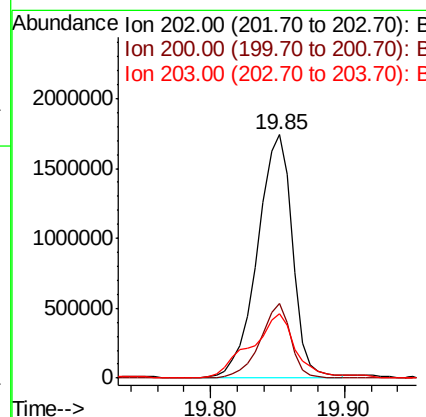
RT: 19.85 min Scan# 2853

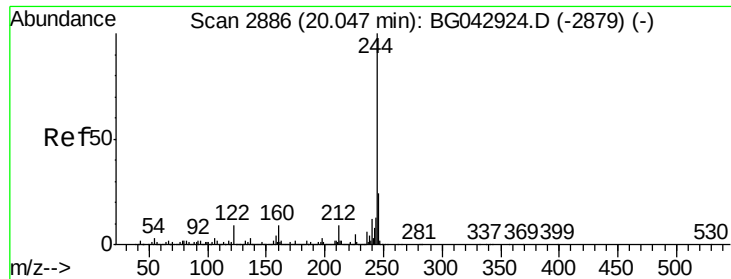
Delta R.T. 0.02 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	30.6	17.6	26.4#		
203	26.5	15.2	22.8#		





#79

Terphenyl-d14

Concen: 78.902 ng

RT: 20.03 min Scan# 2884

Delta R.T. 0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

ClientSampled :

VNJ-209

Tot Ion:244 Resp: 1290915

Ion Ratio Lower Upper

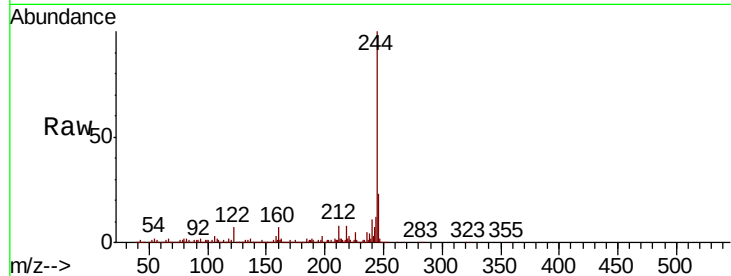
244 100

212 7.7 7.4 11.0

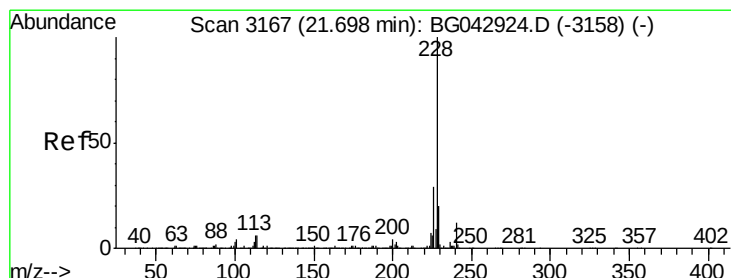
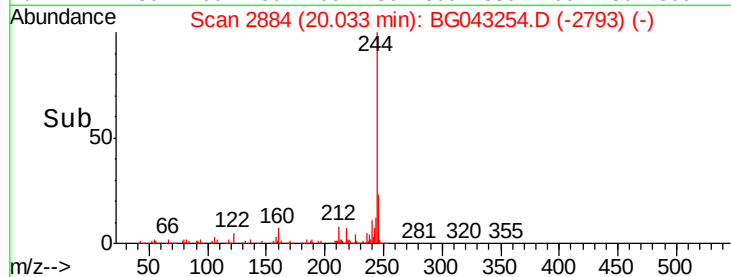
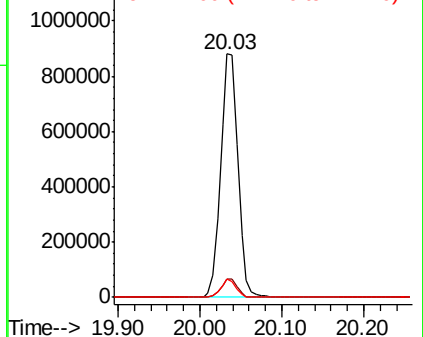
122 7.3 7.0 10.4

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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: 69.256 ng

RT: 21.68 min Scan# 3165

Delta R.T. 0.01 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

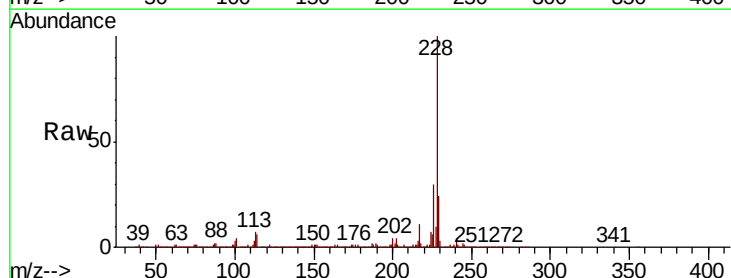
Tgt Ion:228 Resp: 1504446

Ion Ratio Lower Upper

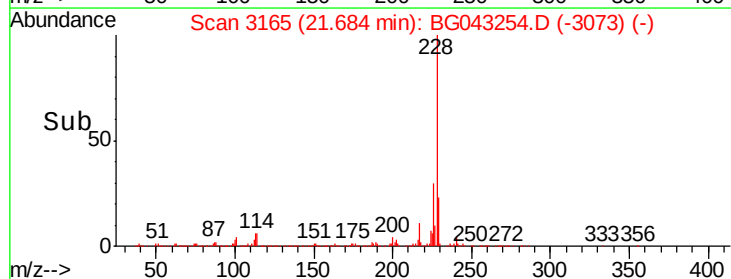
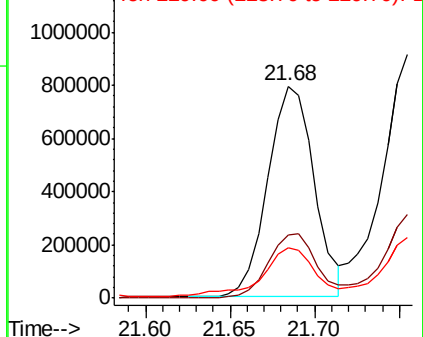
228 100

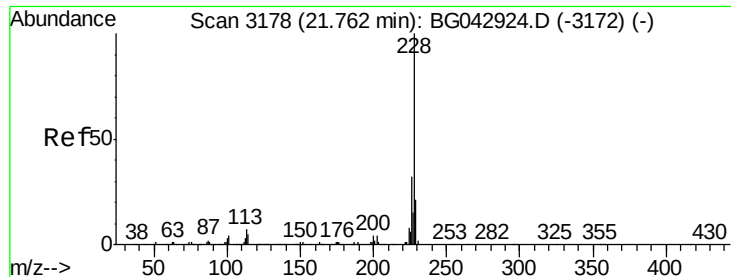
226 29.9 23.0 34.4

229 23.6 16.3 24.5



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: 78.919 ng

RT: 21.75 min Scan# 3177

Delta R.T. 0.02 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

Instrument :

BNA_G

ClientSampleId :

VNJ-209

Tot Ion:228 Resp: 1663667

Ion	Ratio	Lower	Upper
228	100		
226	34.2	25.6	38.4
229	25.0	16.9	25.3

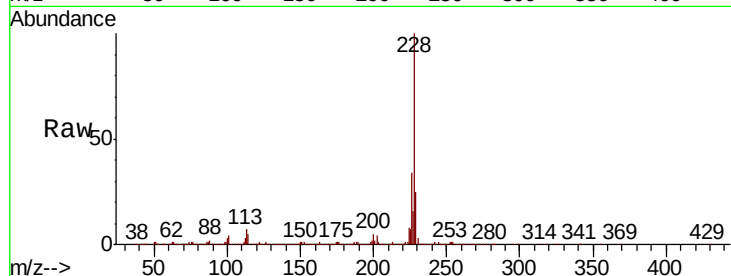
228 100

226 34.2 25.6 38.4

229 25.0 16.9 25.3

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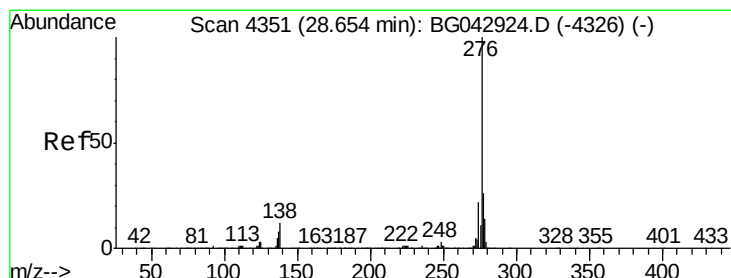
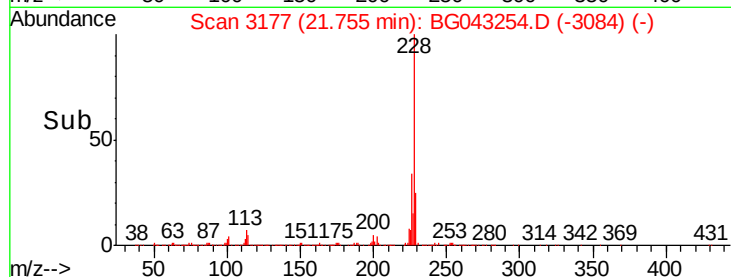
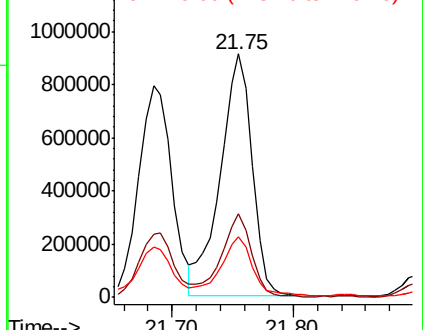


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 14.358 ng

RT: 28.61 min Scan# 4344

Delta R.T. 0.03 min

Lab File: BG043254.D

Acq: 16 Oct 2019 20:53

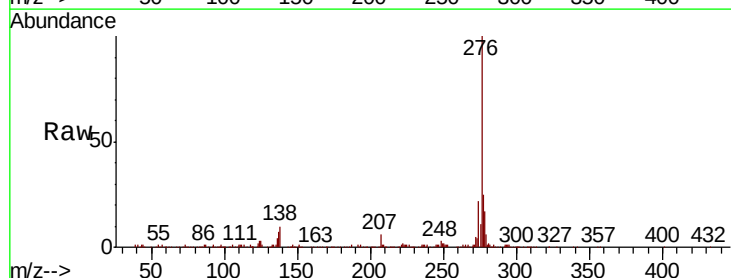
Tgt Ion:276 Resp: 376793

Ion	Ratio	Lower	Upper
276	100		
138	11.9	7.0	10.6#
277	25.4	20.9	31.3

276 100

138 11.9 7.0 10.6#

277 25.4 20.9 31.3

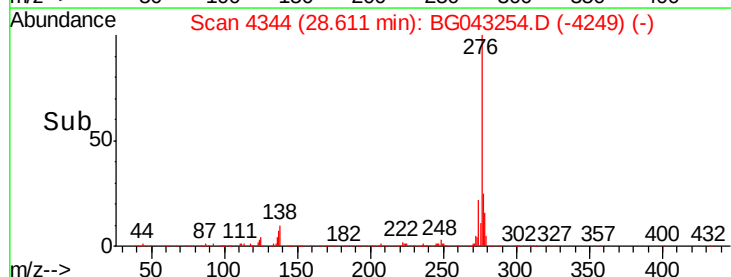
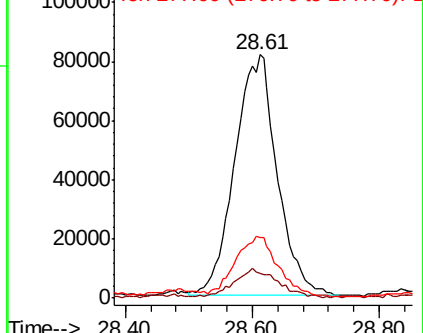


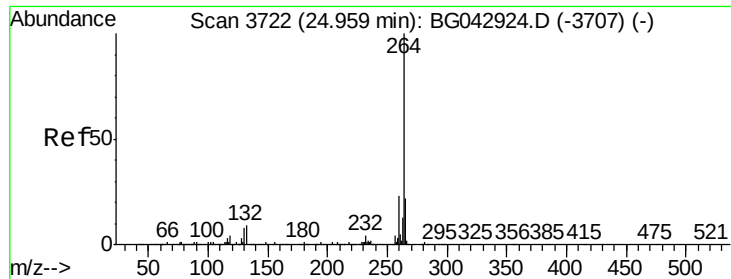
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





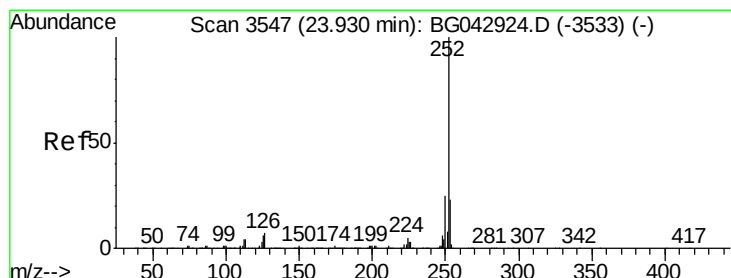
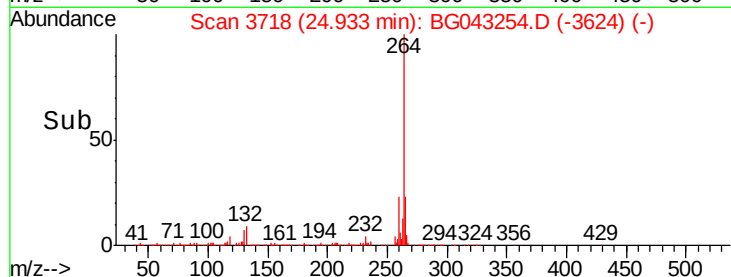
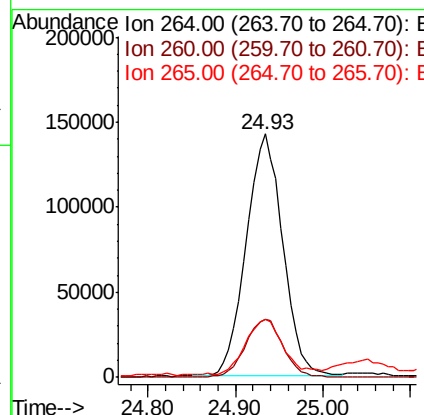
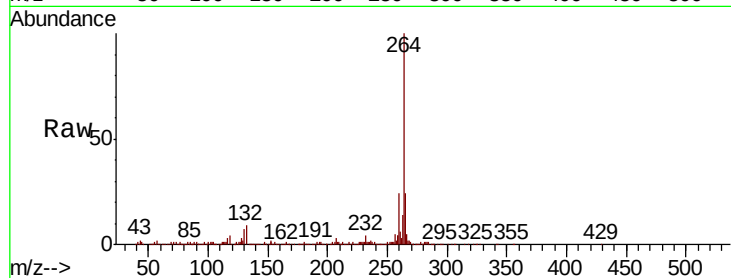
#87
Pervlene-d12
Concen: 20.000 ng
RT: 24.93 min Scan# 3718
Delta R.T. 0.02 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	23.8	17.7	26.5

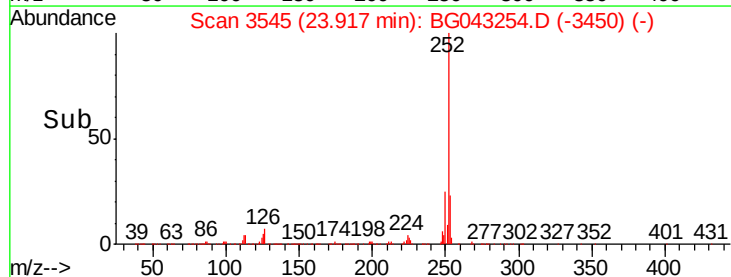
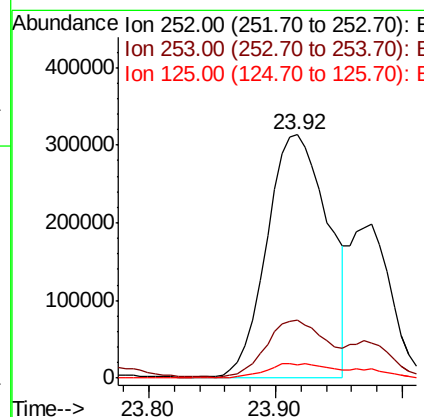
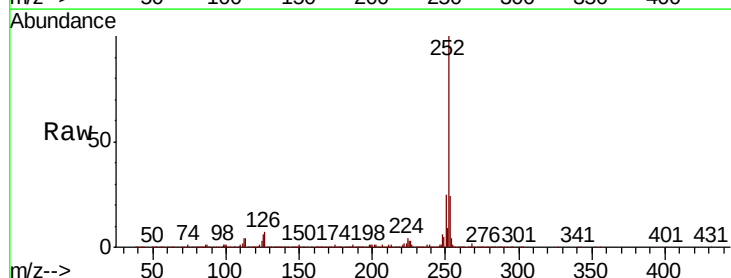
Manual Integrations
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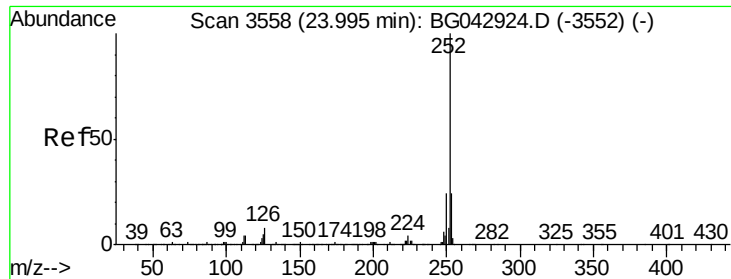
mohammad
10/18/2019 8:26:05 AM



#88
Benzo(b)fluoranthene
Concen: 45.647 ng
RT: 23.92 min Scan# 3545
Delta R.T. 0.03 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	5.5	4.6	7.0





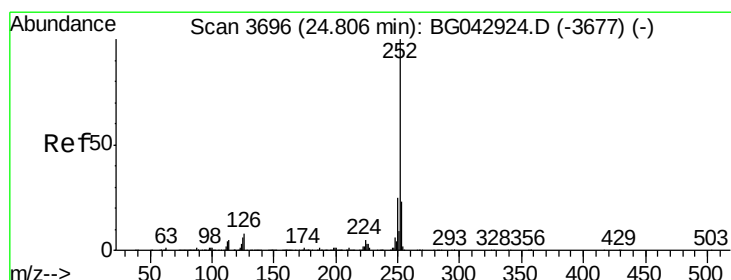
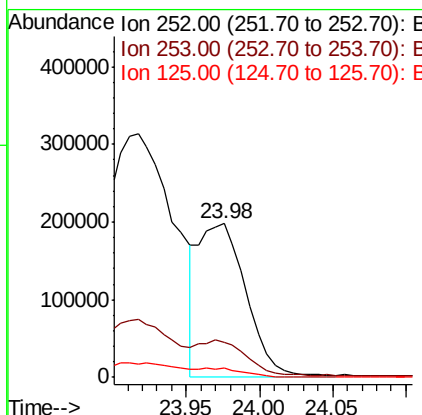
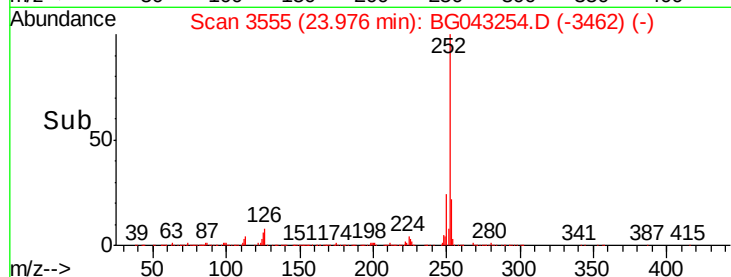
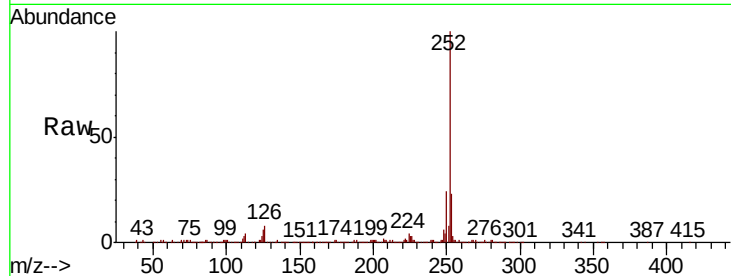
#89
Benzo(k)fluoranthene
Concen: 19.881 ng m
RT: 23.98 min Scan# 3555
Delta R.T. 0.02 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.9	28.3
125	6.5	4.5	6.7

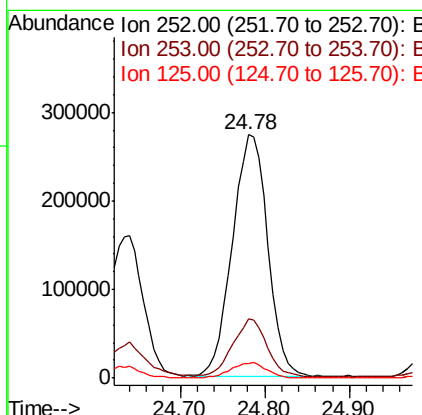
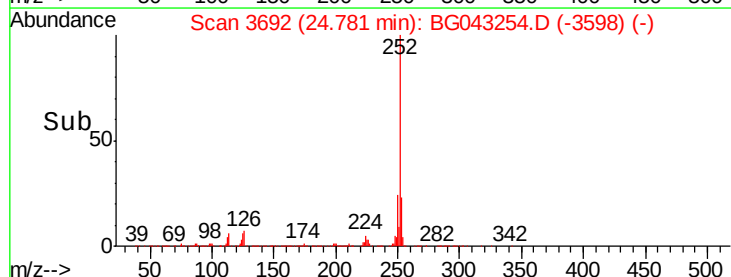
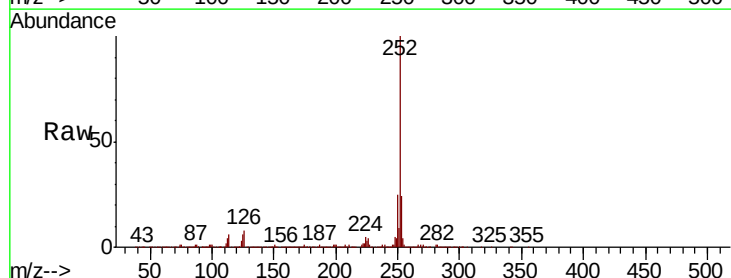
Manual Integrations
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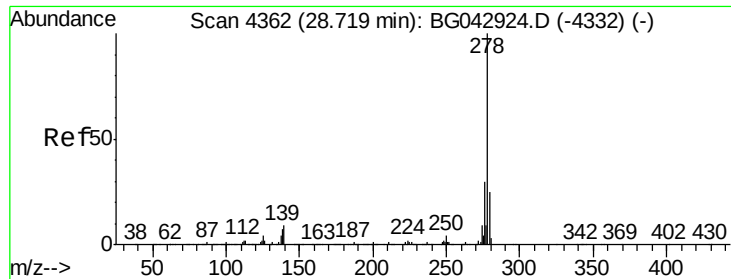
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#90
Benzo(a)pyrene
Concen: 36.535 ng
RT: 24.78 min Scan# 3692
Delta R.T. 0.02 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.2	27.4
125	6.0	5.0	7.6





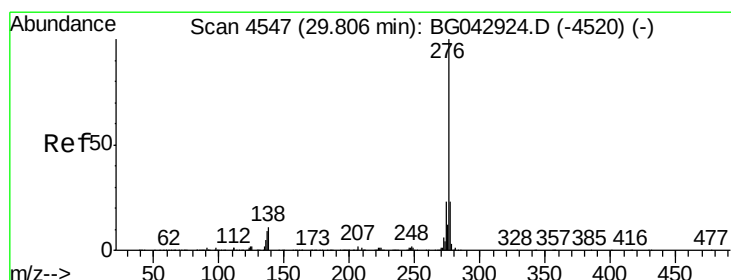
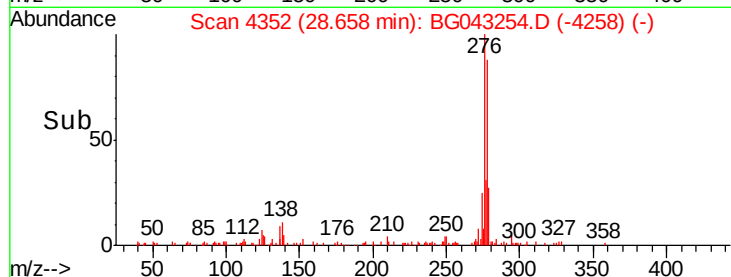
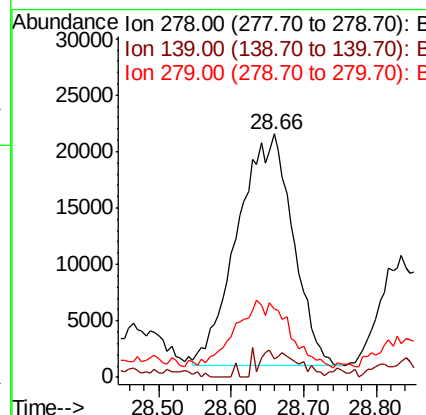
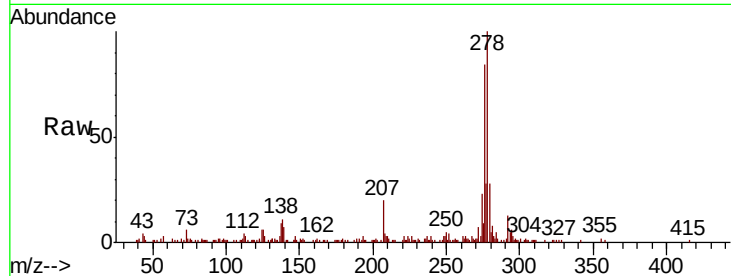
#91
Dibenzo(a,h)anthracene
Concen: 4.907 ng
RT: 28.66 min Scan# 4352
Delta R.T. 0.02 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
278	100		
139	7.4	6.8	10.2
279	28.2	20.1	30.1

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 15.184 ng
RT: 29.75 min Scan# 4538
Delta R.T. 0.03 min
Lab File: BG043254.D
Acq: 16 Oct 2019 20:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	21.6	18.4	27.6
138	10.3	8.6	12.8

