

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\
 Data File : BN009637.D
 Acq On : 07 Feb 2020 08:23
 Operator : CG/JU
 Sample : L1324-16 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAT71

Manual Integrations
 APPROVED

mohammad
 2/10/2020 8:20:27 AM

Quant Time: Feb 07 13:50:26 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN020320MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 07 11:12:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	201377	20.00	ng/ul	0.00
18) Naphthalene-d8	10.19	136	819168	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.07	164	491433	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.83	188	960634	20.00	ng/ul	0.00
77) Chrysene-d12	21.05	240	838953	20.00	ng/ul	0.01
85) Perylene-d12	23.16	264	964388	20.00	ng/ul	0.01

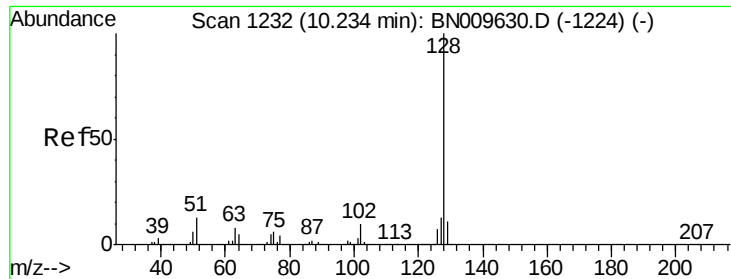
System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	905	0.18	ng/uL	0.02
5) Phenol-d5	6.64	99	26429	1.50	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.80	67	18771	1.59	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	19789	1.53	ng/ul	0.00
13) 4-Methylphenol-d8	8.15	113	19937	1.43	ng/ul	0.00
19) Nitrobenzene-d5	8.58	128	13885	2.28	ng/ul	0.00
22) 2-Nitrophenol-d4	9.29	143	10635	1.56	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.83	165	18810	1.48	ng/ul	0.02
29) 4-Chloroaniline-d4	10.38	131	32201	2.35	ng/ul	0.04
43) Dimethylphthalate-d6	13.50	166	67051	1.87	ng/ul	0.00
46) Acenaphthylene-d8	13.77	160	75162	1.73	ng/ul	0.01
51) 4-Nitrophenol-d4	14.33	143	3780	0.56	ng/ul	0.02
57) Fluorene-d10	15.08	176	58759	1.86	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.25	200	4370	0.73	ng/ul	0.03
70) Anthracene-d10	16.94	188	83224	1.91	ng/ul	0.01
78) Pyrene-d10	19.24	212	87083	1.97	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.03	264	87597	1.84	ng/ul	0.01

Target Compounds

					Ovalue
28) Naphthalene	10.25	128	36482182m	821.250	ng/ul
34) 2-Methylnaphthalene	11.89	142	17290909	556.199	ng/ul 99
40) 1,1'-Biphenyl	12.89	154	200370	5.237	ng/ul 99
47) Acenaphthylene	13.80	152	13617564	287.068	ng/ul 97
49) Acenaphthene	14.14	153	1001972	31.071	ng/ul 98
53) Dibenzofuran	14.47	168	1069359	23.813	ng/ul 96
58) Fluorene	15.15	166	7395285	197.052	ng/ul 99
69) Phenanthrene	16.89	178	22168172m	404.647	ng/ul
71) Anthracene	16.97	178	6235739	112.180	ng/ul 98
74) Carbazole	17.24	167	243442	5.030	ng/ul# 93
76) Fluoranthene	18.92	202	11307149	180.839	ng/ul 97
79) Pyrene	19.28	202	15527029	253.529	ng/ul# 89
82) Benzo(a)anthracene	21.04	228	5727069m	98.870	ng/ul
84) Chrysene	21.09	228	4919342	85.307	ng/ul 99
87) Benzo(b)fluoranthene	22.56	252	3483404	57.732	ng/ul# 94
88) Benzo(k)fluoranthene	22.58	252	1246880m	20.984	ng/ul
90) Benzo(a)pyrene	23.09	252	4242575	75.892	ng/ul 97
91) Indeno(1,2,3-cd)pyrene	25.23	276	1622665	24.414	ng/ul 91
92) Dibenzo(a,h)anthracene	25.23	278	491384m	8.783	ng/ul
93) Benzo(g,h,i)perylene	25.87	276	1696175	30.450	ng/ul 93

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



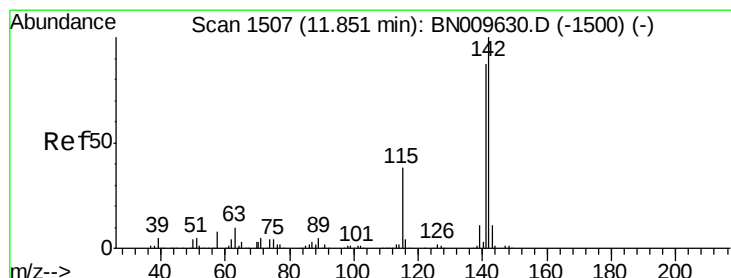
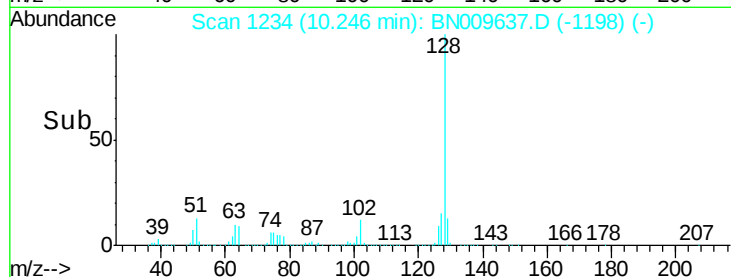
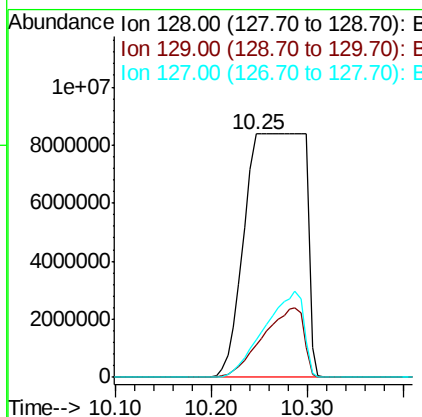
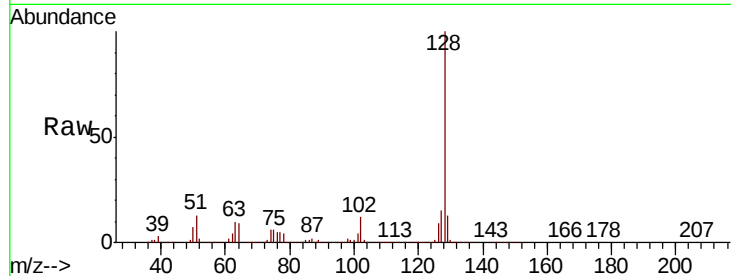
#28
Naphthalene
Concen: 821.250 ng/ul m
RT: 10.25 min Scan# 1234
Delta R.T. 0.01 min
Lab File: BN009637.D
Acq: 07 Feb 2020 08:23

Instrument :
BNA_N
ClientSampled :
GAT71

Tot Ion:128 Resp:36482182
Ion Ratio Lower Upper
128 100
129 13.4 8.7 13.1#
127 15.3 10.7 16.1

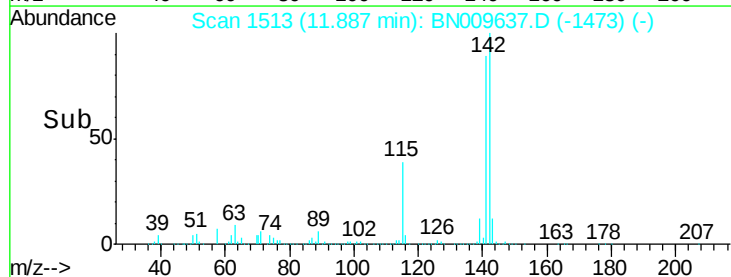
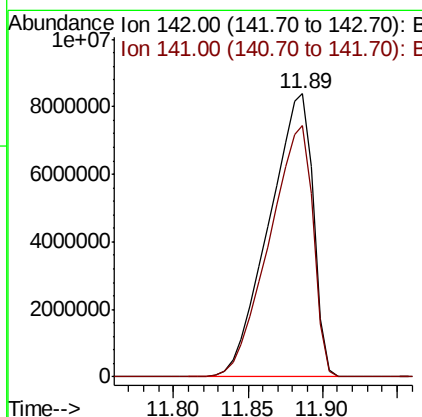
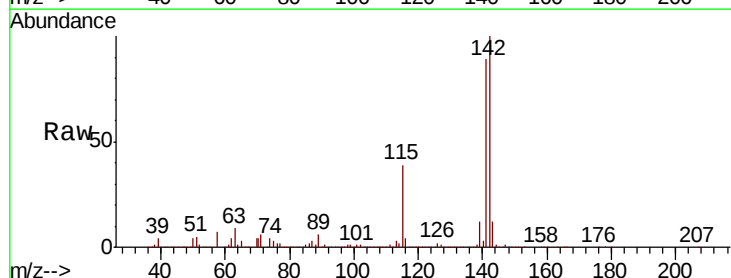
Manual Integrations
APPROVED

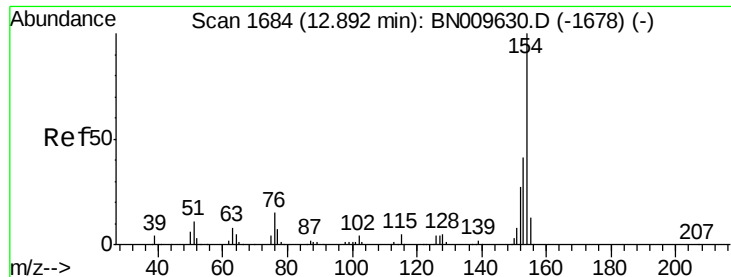
mohammad
2/10/2020 8:20:27 AM



#34
2-Methylnaphthalene
Concen: 556.199 ng/ul
RT: 11.89 min Scan# 1513
Delta R.T. 0.04 min
Lab File: BN009637.D
Acq: 07 Feb 2020 08:23

Tgt Ion:142 Resp:17290909
Ion Ratio Lower Upper
142 100
141 88.7 71.5 107.3





#40

1,1'-Biphenyl

Concen: 5.237 ng/ul

RT: 12.89 min Scan# 1684

Delta R.T. 0.00 min

Lab File: BN009637.D

Acq: 07 Feb 2020 08:23

Instrument :

BNA_N

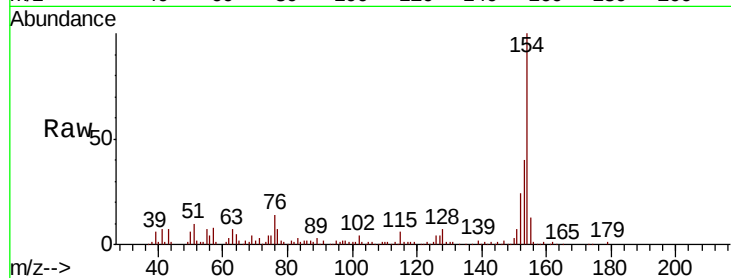
ClientSampled :

GAT71

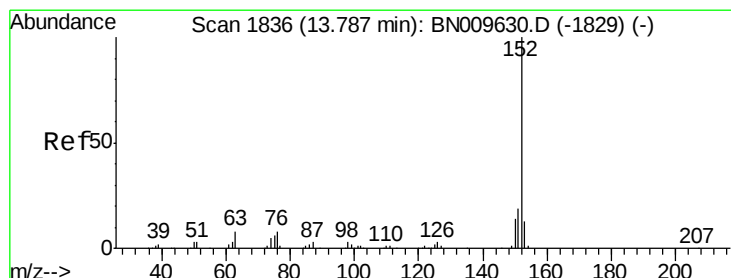
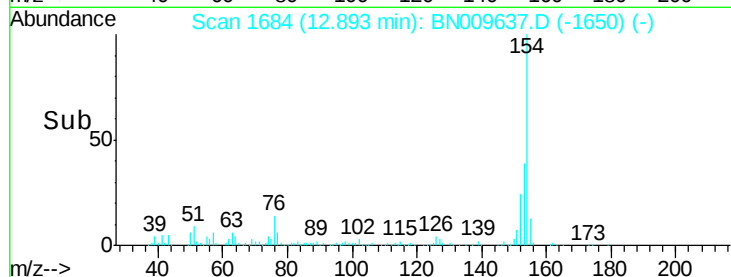
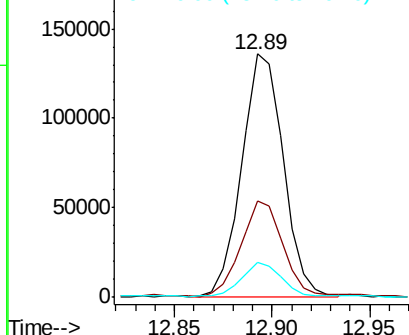
Tot Ion:	154	Resp:	200370
Ion Ratio		Lower	Upper
154	100		
153	39.6	31.2	46.8
76	14.5	11.4	17.2

Manual Integrations
APPROVED

mohammad
2/10/2020 8:20:27 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BNC



#47

Acenaphthylene

Concen: 287.068 ng/ul

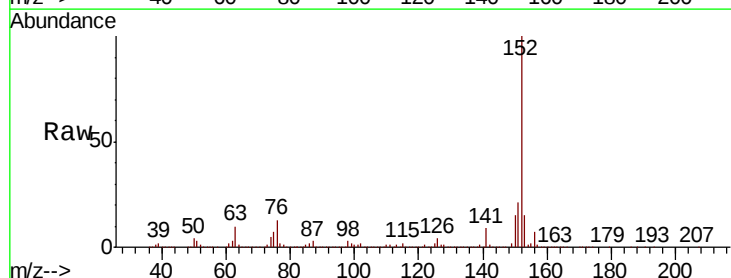
RT: 13.80 min Scan# 1839

Delta R.T. 0.02 min

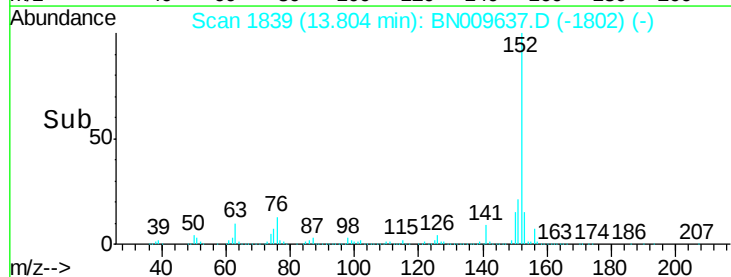
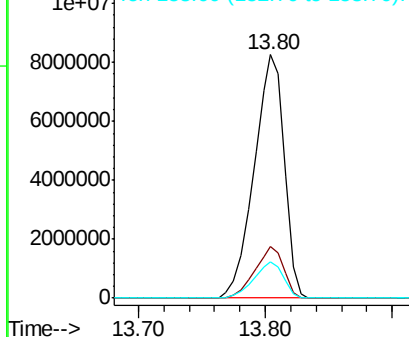
Lab File: BN009637.D

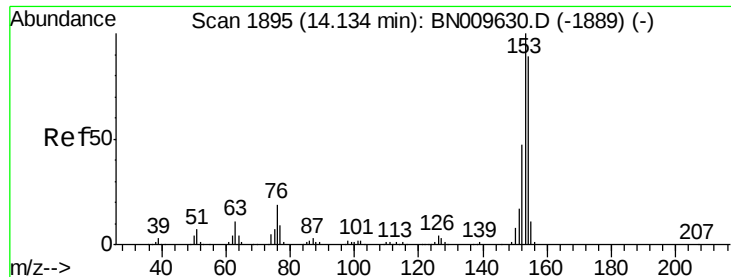
Acq: 07 Feb 2020 08:23

Tgt Ion:	152	Resp:	13617564
Ion Ratio		Lower	Upper
152	100		
151	21.2	16.2	24.2
153	14.9	10.6	15.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 31.071 ng/ul

RT: 14.14 min Scan# 1896

Delta R.T. 0.01 min

Lab File: BN009637.D

Acq: 07 Feb 2020 08:23

Instrument :

BNA_N

ClientSampled :

GAT71

Tot Ion:153 Resp: 1001972

Ion Ratio Lower Upper

153 100

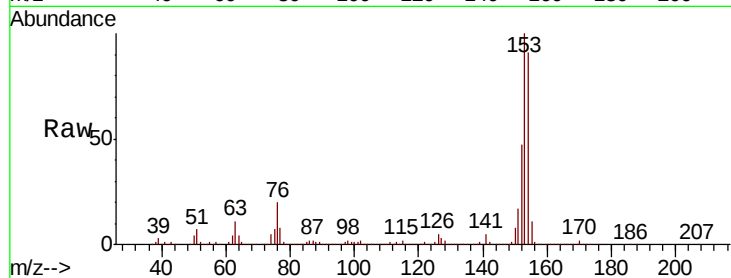
152 47.0 37.3 55.9

154 90.8 70.2 105.2

Manual Integrations
APPROVED

mohammad

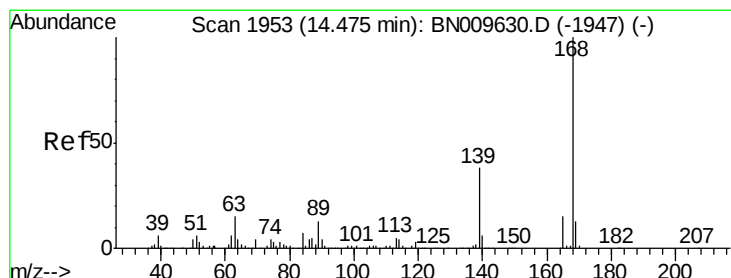
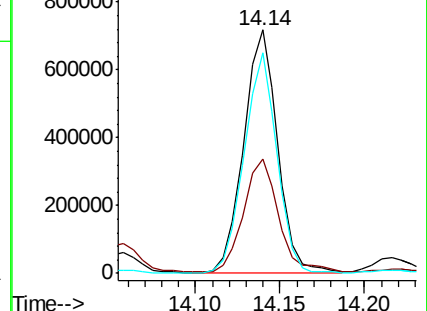
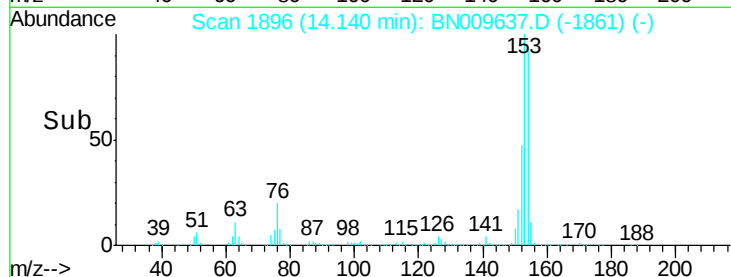
2/10/2020 8:20:27 AM



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 23.813 ng/ul

RT: 14.47 min Scan# 1953

Delta R.T. 0.00 min

Lab File: BN009637.D

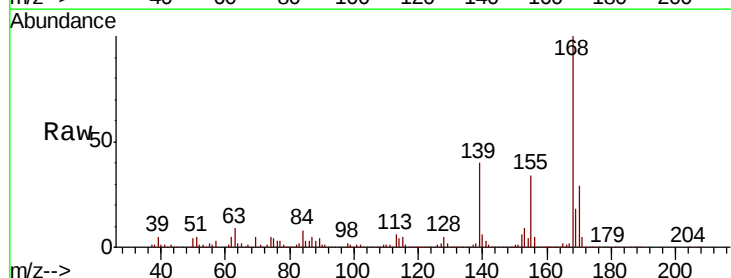
Acq: 07 Feb 2020 08:23

Tgt Ion:168 Resp: 1069359

Ion Ratio Lower Upper

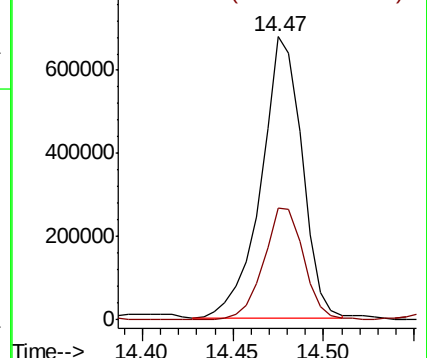
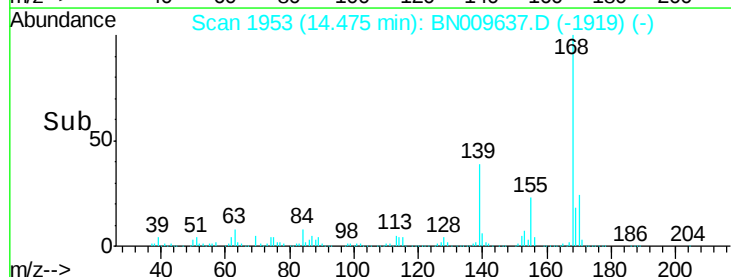
168 100

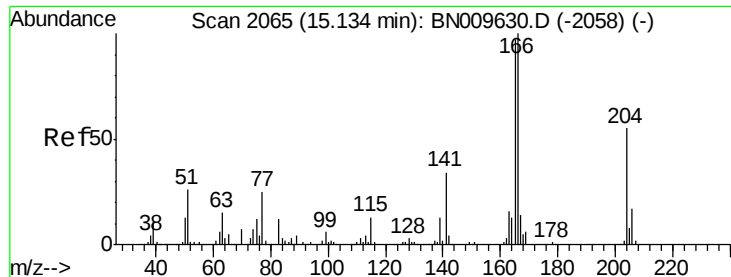
139 39.5 29.5 44.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





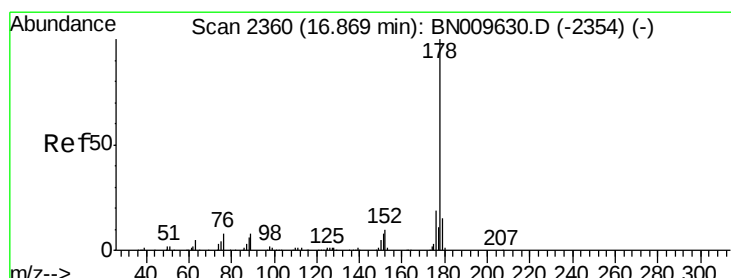
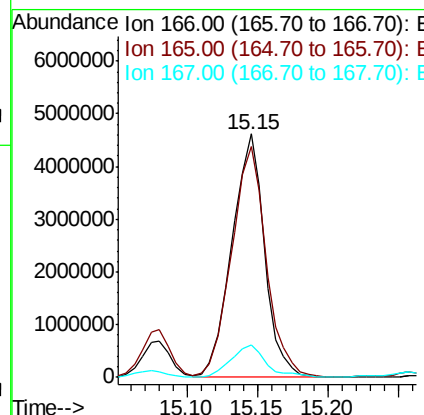
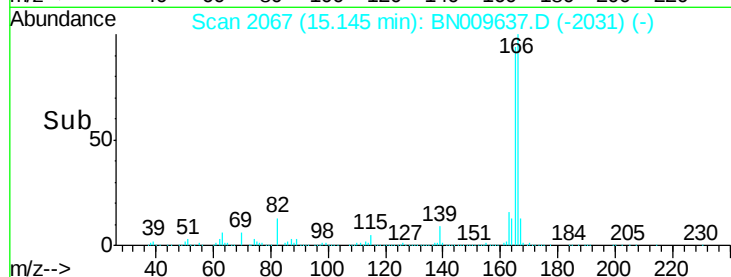
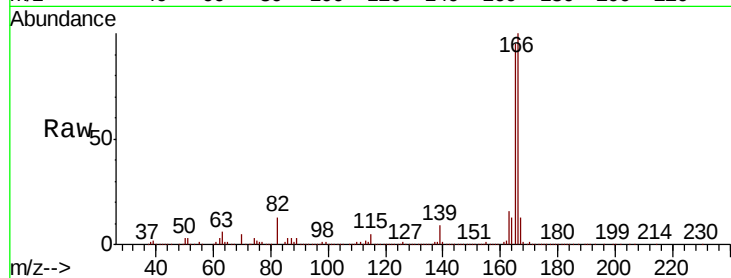
#58
 Fluorene
 Concen: 197.052 ng/ul
 RT: 15.15 min Scan# 2067
 Delta R.T. 0.01 min
 Lab File: BN009637.D
 Acq: 07 Feb 2020 08:23

Instrument :
 BNA_N
 ClientSampleId :
 GAT71

Tot Ion:166 Resp: 7395285
 Ion Ratio Lower Upper
 166 100
 165 95.0 76.7 115.1
 167 13.4 11.1 16.7

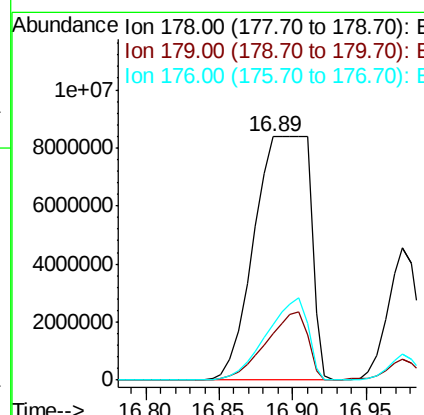
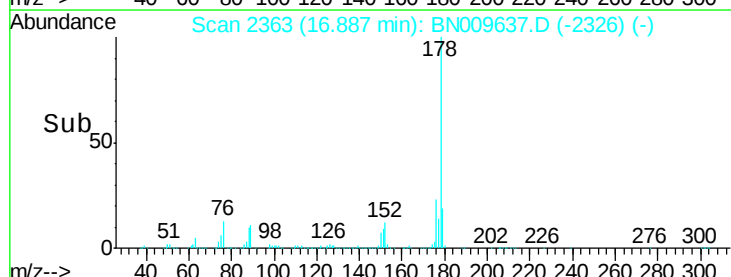
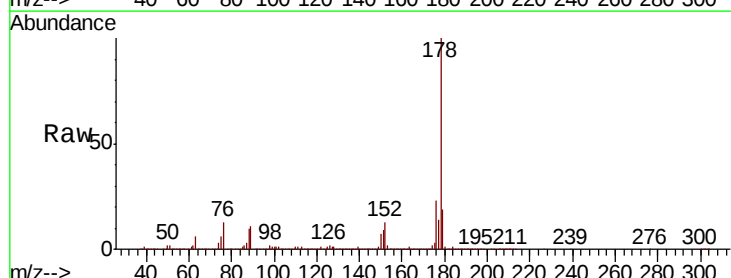
Manual Integrations
 APPROVED

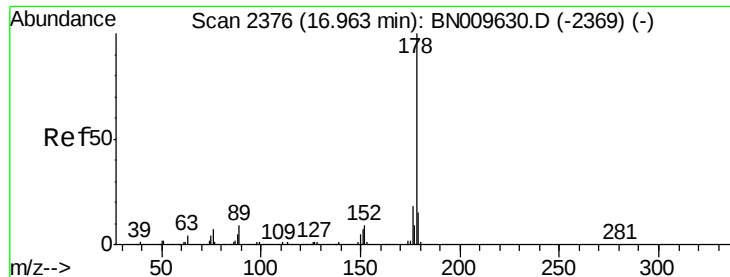
mohammad
 2/10/2020 8:20:27 AM



#69
 Phenanthrene
 Concen: 404.647 ng/ul m
 RT: 16.89 min Scan# 2363
 Delta R.T. 0.02 min
 Lab File: BN009637.D
 Acq: 07 Feb 2020 08:23

Tgt Ion:178 Resp:22168172
 Ion Ratio Lower Upper
 178 100
 179 19.0 12.2 18.2#
 176 22.6 14.8 22.2#





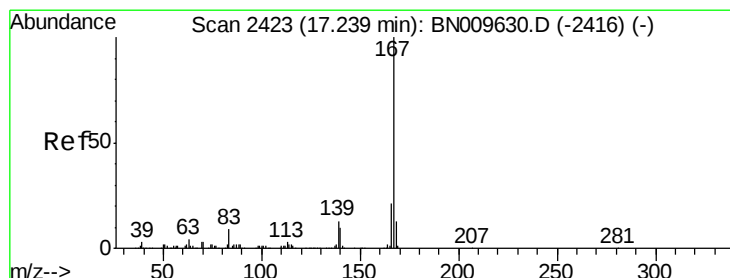
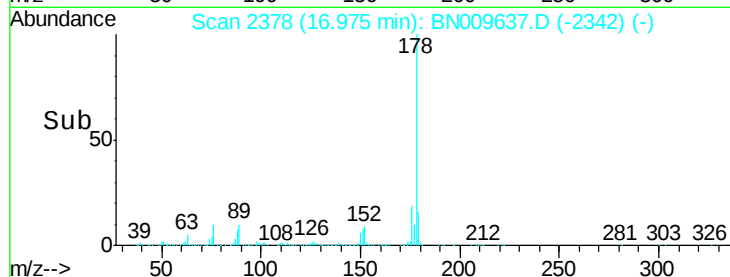
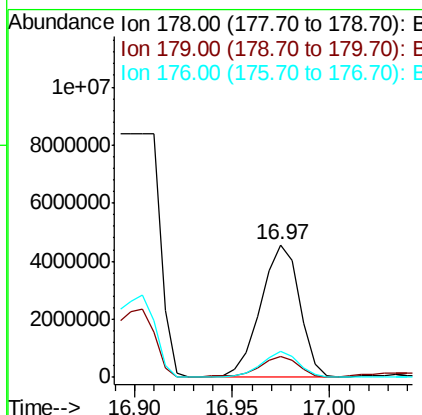
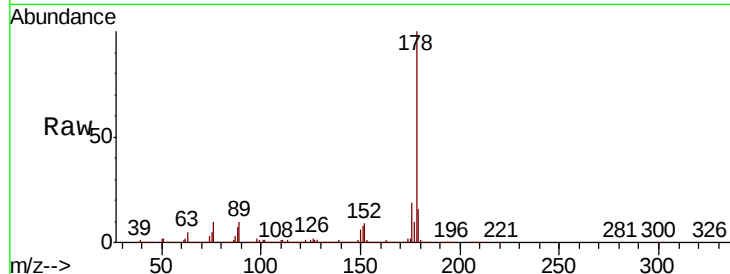
#71
 Anthracene
 Concen: 112.180 ng/ul
 RT: 16.97 min Scan# 2378
 Delta R.T. 0.01 min
 Lab File: BN009637.D
 Acq: 07 Feb 2020 08:23

Instrument :
 BNA_N
 ClientSampled :
 GAT71

Tot Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.1	18.1
176	19.1	14.6	21.8

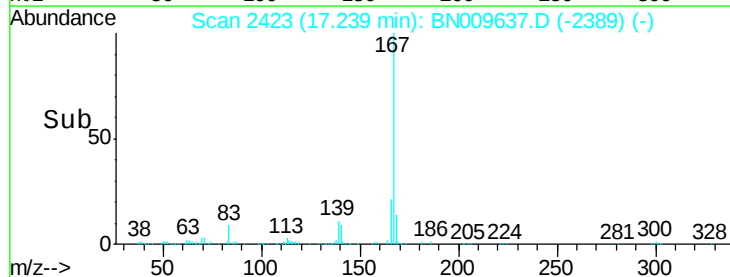
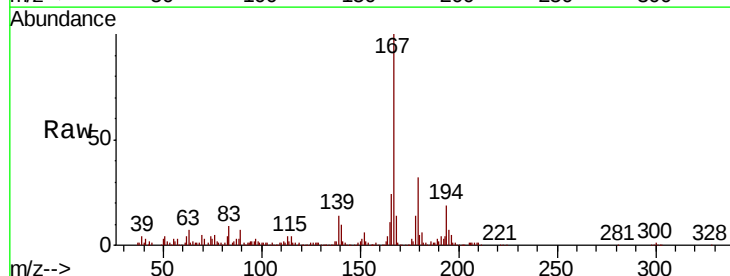
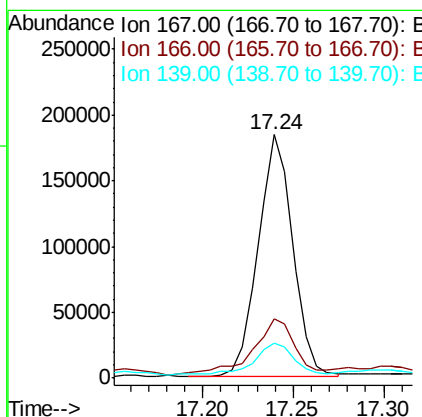
Manual Integrations
 APPROVED

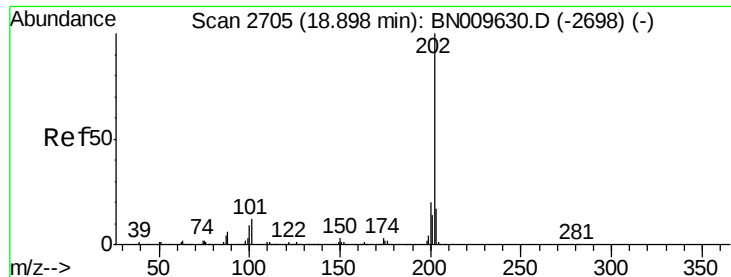
mohammad
 2/10/2020 8:20:27 AM



#74
 Carbazole
 Concen: 5.030 ng/ul
 RT: 17.24 min Scan# 2423
 Delta R.T. 0.00 min
 Lab File: BN009637.D
 Acq: 07 Feb 2020 08:23

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.5	16.2	24.4#
139	14.2	10.4	15.6





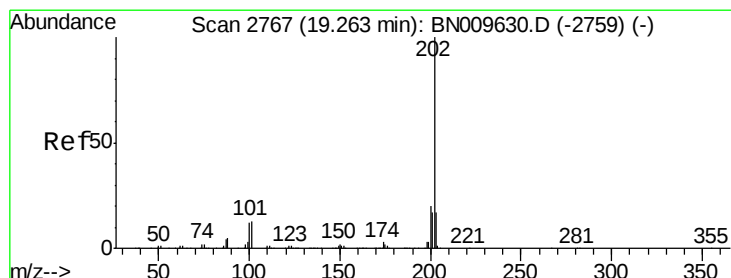
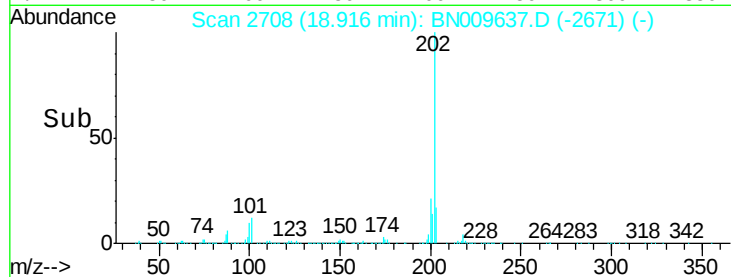
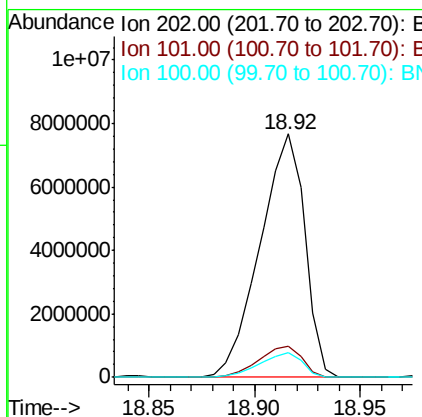
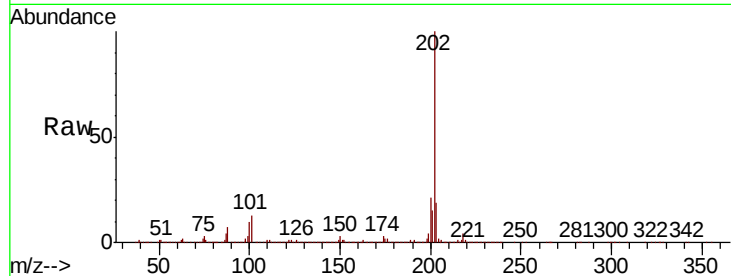
#76
 Fluoranthene
 Concen: 180.839 ng/ul
 RT: 18.92 min Scan# 2708
 Delta R.T. 0.02 min
 Lab File: BN009637.D
 Acq: 07 Feb 2020 08:23

Instrument :
 BNA_N
 ClientSampled :
 GAT71

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.8	9.2	13.8
100	9.9	6.9	10.3

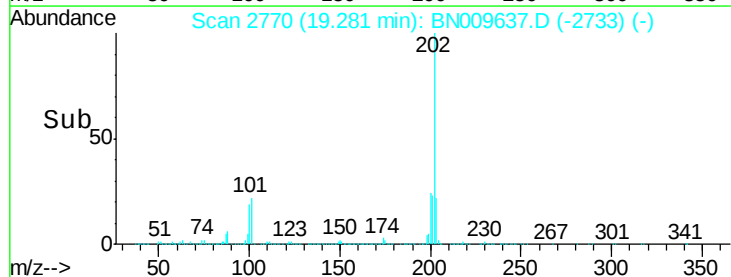
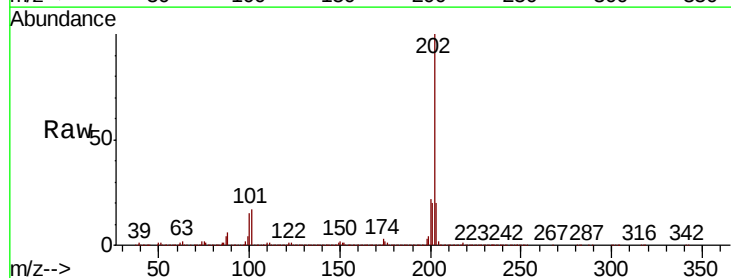
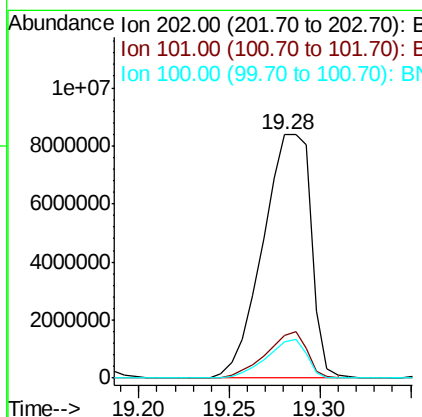
Manual Integrations
 APPROVED

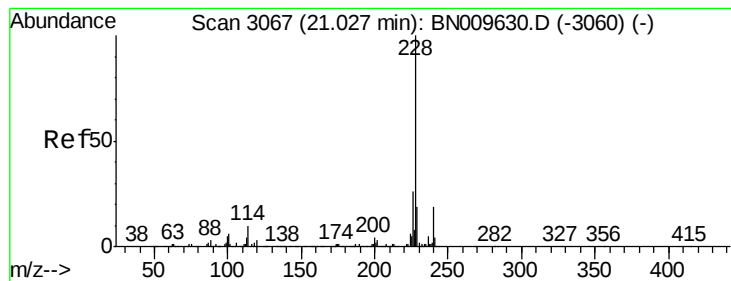
mohammad
 2/10/2020 8:20:27 AM



#79
 Pyrene
 Concen: 253.529 ng/ul
 RT: 19.28 min Scan# 2770
 Delta R.T. 0.02 min
 Lab File: BN009637.D
 Acq: 07 Feb 2020 08:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.4	10.3	15.5#
100	14.6	8.4	12.6#





#82

Benzo(a)anthracene

Concen: 98.870 ng/ul

RT: 21.04 min Scan# 3069

Delta R.T. 0.01 min

Lab File: BN009637.D

Acq: 07 Feb 2020 08:23

Instrument :

BNA_N

ClientSampled :

GAT71

Tot Ion:228 Resp: 5727069

Ion Ratio Lower Upper

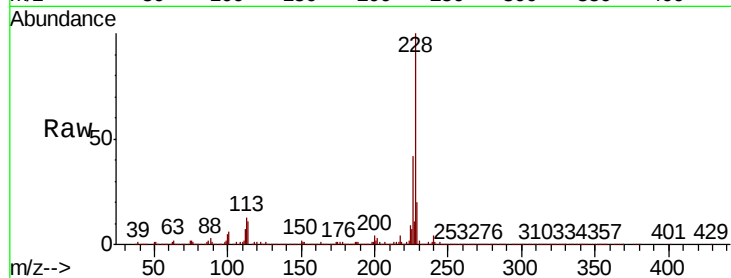
228 100

229 19.9 15.0 22.4

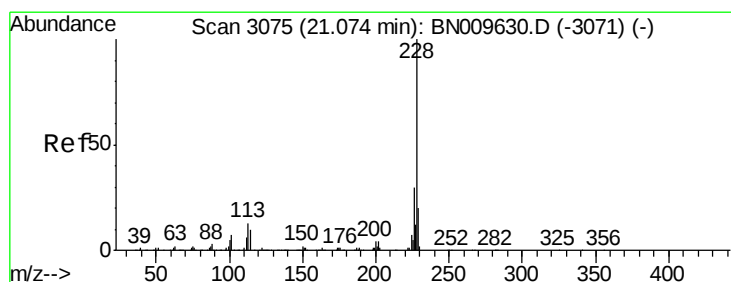
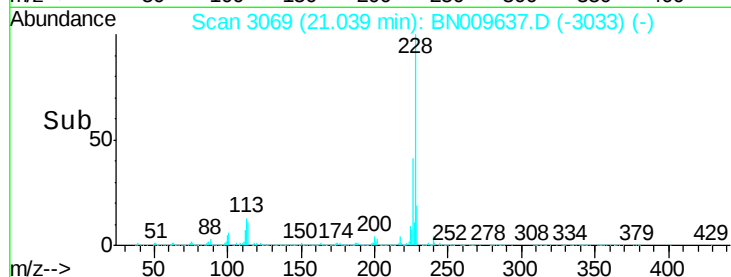
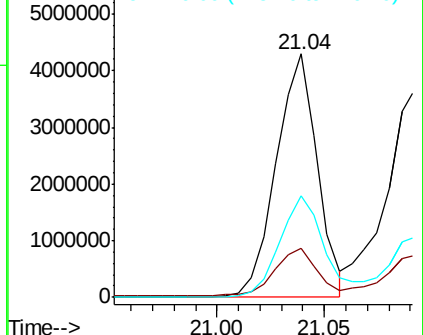
226 41.8 20.9 31.3#

Manual Integrations
APPROVED

mohammad
2/10/2020 8:20:27 AM



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



#84

Chrysene

Concen: 85.307 ng/ul

RT: 21.09 min Scan# 3078

Delta R.T. 0.02 min

Lab File: BN009637.D

Acq: 07 Feb 2020 08:23

Tgt Ion:228 Resp: 4919342

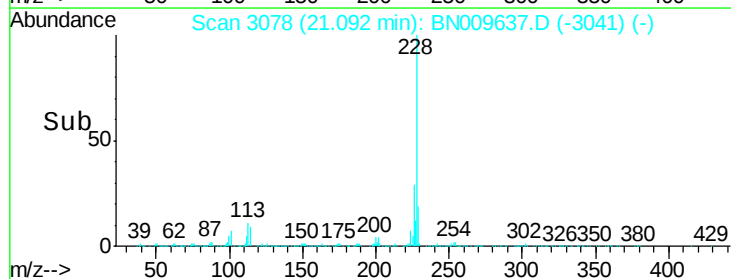
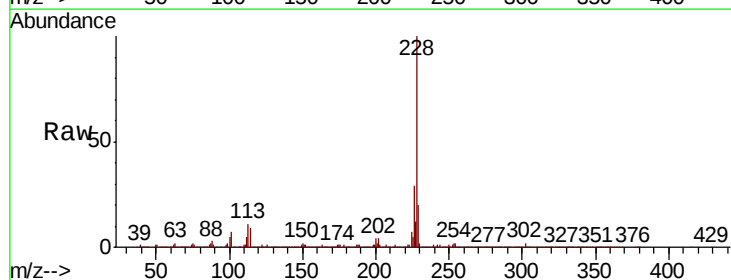
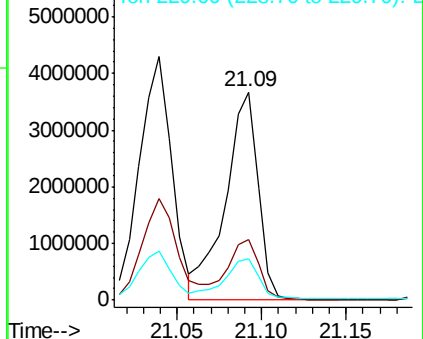
Ion Ratio Lower Upper

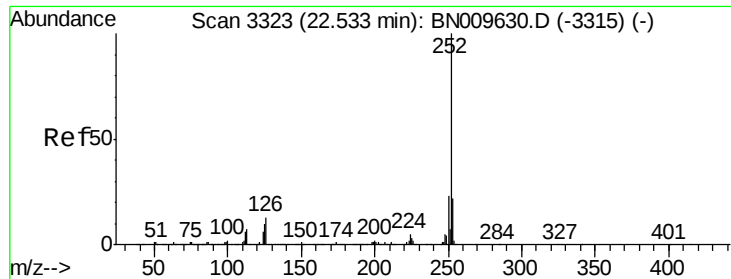
228 100

226 28.9 23.5 35.3

229 19.9 15.8 23.8

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





#87

Benzo(b)fluoranthene

Concen: 57.732 ng/ul

RT: 22.56 min Scan# 3327

Delta R.T. 0.02 min

Lab File: BN009637.D

Acq: 07 Feb 2020 08:23

Instrument :

BNA_N

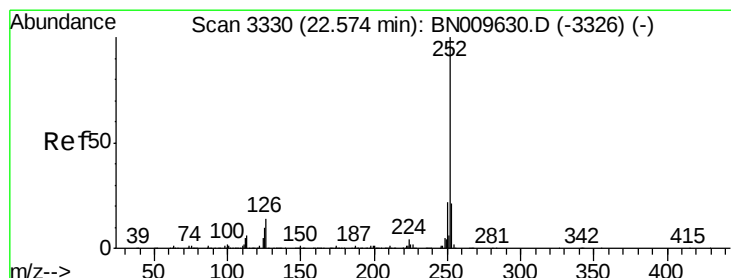
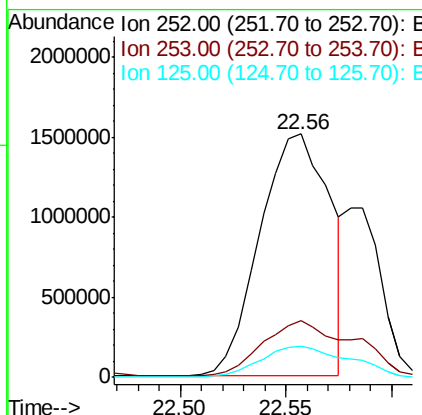
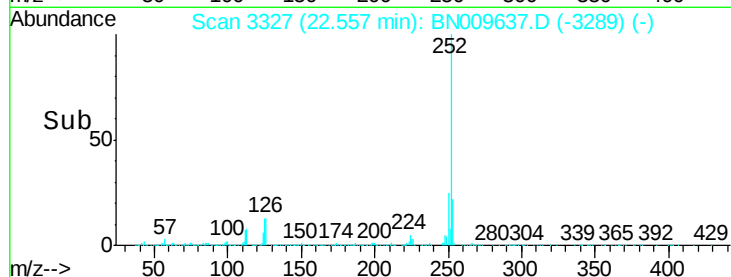
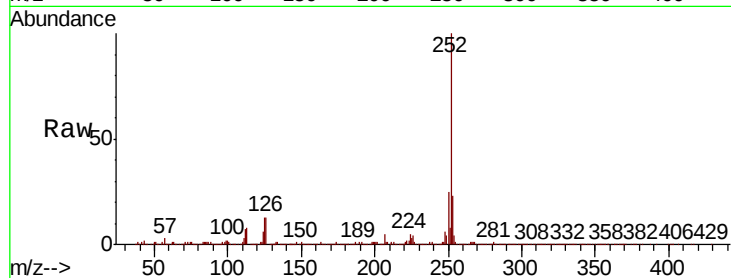
ClientSampleId :

GAT71

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.6
125	13.0	8.2	12.2

Manual Integrations
APPROVED

mohammad
2/10/2020 8:20:27 AM



#88

Benzo(k)fluoranthene

Concen: 20.984 ng/ul m

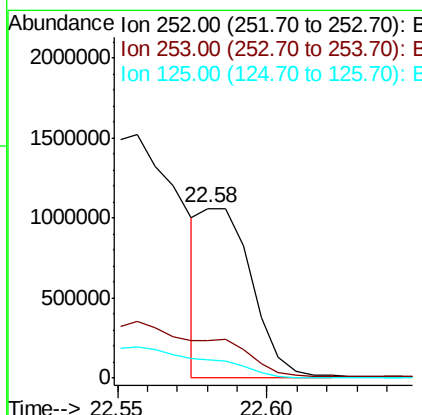
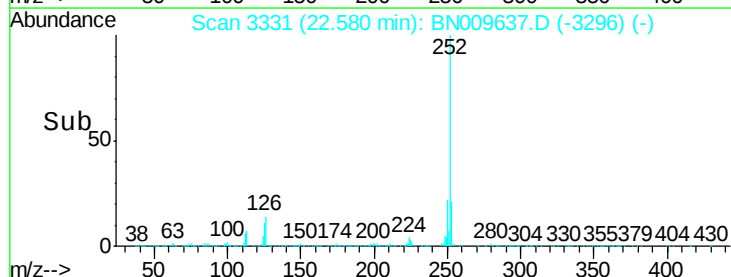
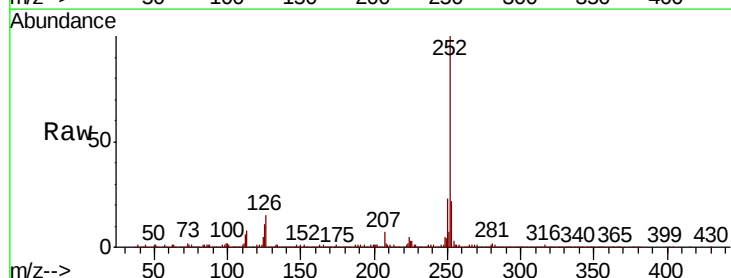
RT: 22.58 min Scan# 3331

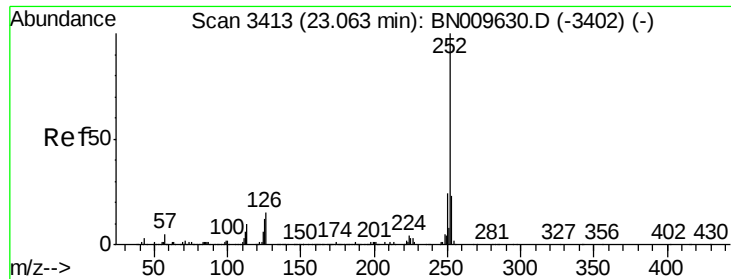
Delta R.T. 0.01 min

Lab File: BN009637.D

Acq: 07 Feb 2020 08:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.4
125	10.9	8.0	12.0





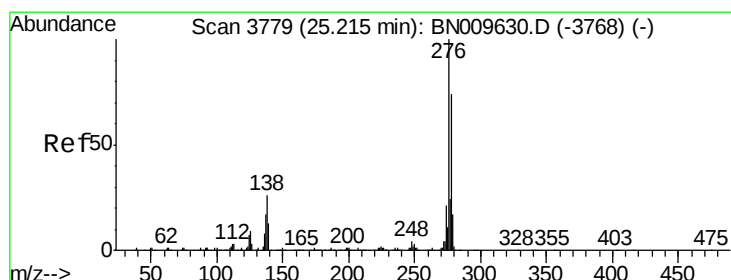
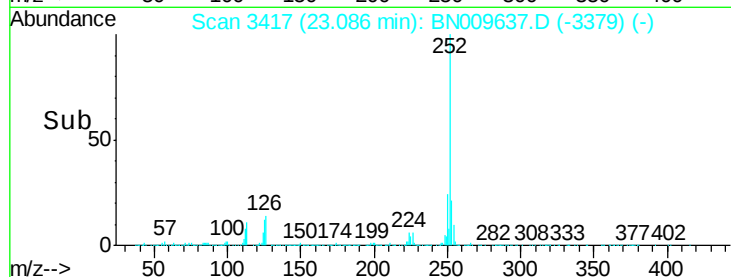
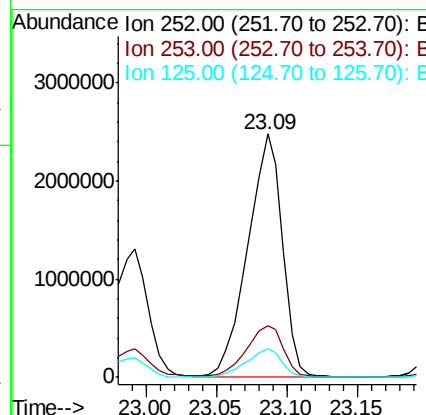
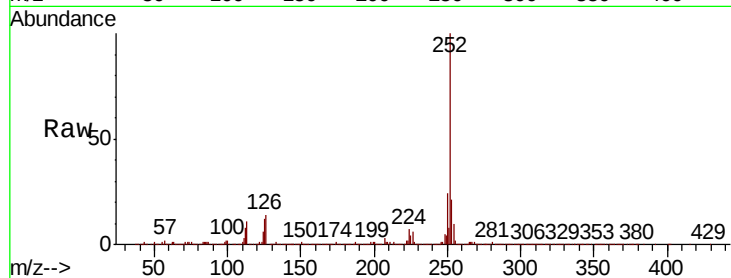
#90
Benzo(a)pyrene
Concen: 75.892 ng/ul
RT: 23.09 min Scan# 3417
Delta R.T. 0.02 min
Lab File: BN009637.D
Acq: 07 Feb 2020 08:23

Instrument :
BNA_N
ClientSampleId :
GAT71

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	15.8	23.8
125	11.7	8.7	13.1

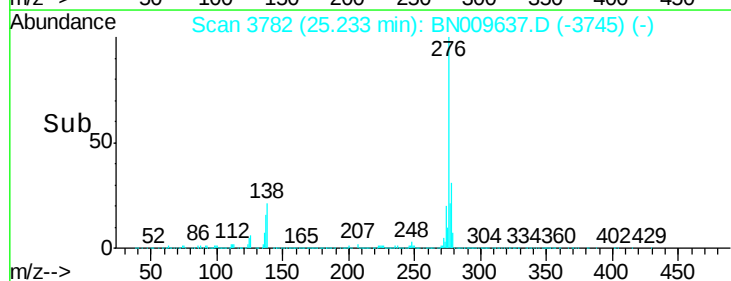
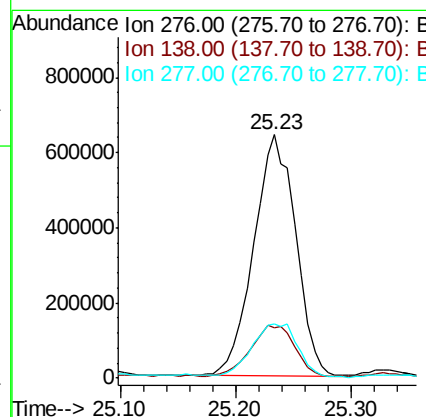
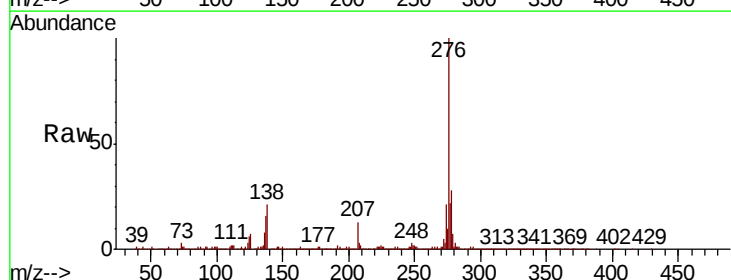
Manual Integrations
APPROVED

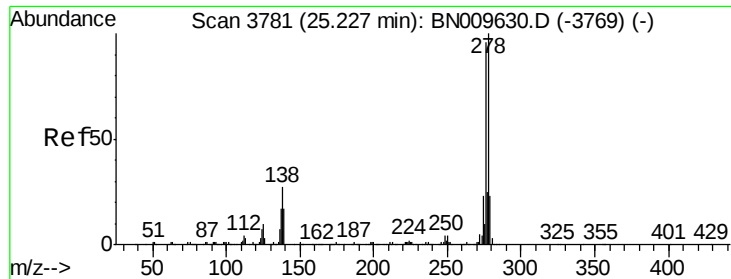
mohammad
2/10/2020 8:20:27 AM



#91
Indeno(1,2,3-cd)pyrene
Concen: 24.414 ng/ul
RT: 25.23 min Scan# 3782
Delta R.T. 0.02 min
Lab File: BN009637.D
Acq: 07 Feb 2020 08:23

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.9	20.3	30.5
277	22.2	21.2	31.8





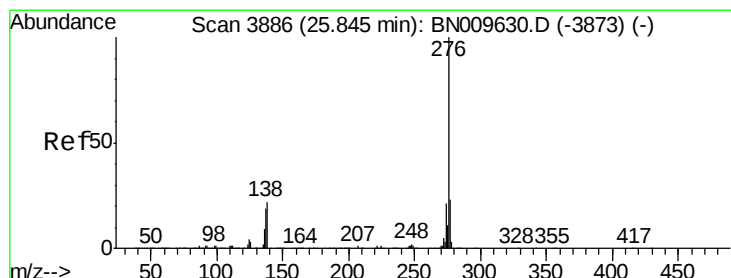
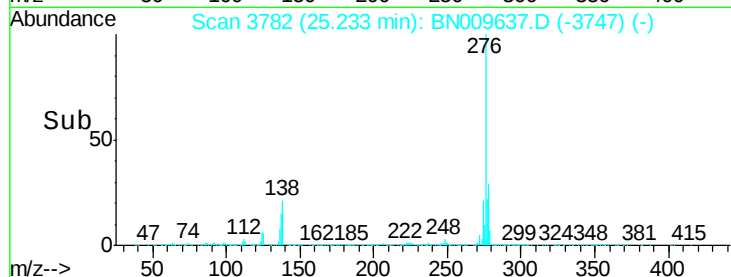
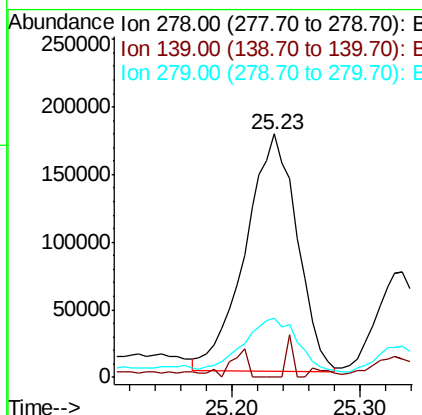
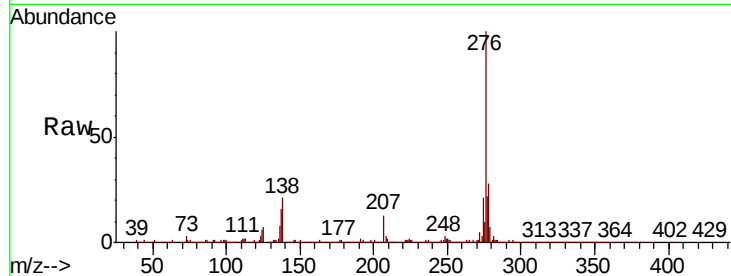
#92
Dibenzo(a,h)anthracene
Concen: 8.783 ng/ul m
RT: 25.23 min Scan# 3782
Delta R.T. 0.01 min
Lab File: BN009637.D
Acq: 07 Feb 2020 08:23

Instrument :
BNA_N
ClientSampled :
GAT71

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	24.1	19.8	29.8

Manual Integrations
APPROVED

mohammad
2/10/2020 8:20:27 AM



#93
Benzo(g,h,i)perylene
Concen: 30.450 ng/ul
RT: 25.87 min Scan# 3890
Delta R.T. 0.02 min
Lab File: BN009637.D
Acq: 07 Feb 2020 08:23

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.0	16.0	24.0
277	24.7	17.0	25.6

