

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\
 Data File : BN009649.D
 Acq On : 07 Feb 2020 15:37
 Operator : CG/JU
 Sample : L1324-11MSD 10X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAT66MSD

Manual Integrations
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mohammad
 2/11/2020 8:23:25 AM

Quant Time: Feb 10 13:00:05 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN020320MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 07 15:21:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	174358	20.00	ng/ul	0.00
18) Naphthalene-d8	10.19	136	737890	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.07	164	448873	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.83	188	870857	20.00	ng/ul	0.00
77) Chrysene-d12	21.05	240	753800	20.00	ng/ul	0.00
85) Perylene-d12	23.17	264	831868	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	592	0.14	ng/uL	0.01
5) Phenol-d5	6.64	99	25225	1.66	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.79	67	19368	1.90	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	20045	1.79	ng/ul	0.00
13) 4-Methylphenol-d8	8.15	113	20123	1.66	ng/ul	0.00
19) Nitrobenzene-d5	8.58	128	10911	1.99	ng/ul	0.00
22) 2-Nitrophenol-d4	9.29	143	9633	1.57	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.83	165	19332	1.68	ng/ul	0.00
29) 4-Chloroaniline-d4	10.37	131	13055	1.06	ng/ul	0.04
43) Dimethylphthalate-d6	13.50	166	63546	1.94	ng/ul	0.00
46) Acenaphthylene-d8	13.76	160	71028	1.79	ng/ul	0.00
51) 4-Nitrophenol-d4	14.32	143	9216	1.49	ng/ul	0.00
57) Fluorene-d10	15.07	176	52745	1.83	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.25	200	6570	1.21	ng/ul	0.02
70) Anthracene-d10	16.93	188	79786m	2.02	ng/ul	0.00
78) Pyrene-d10	19.24	212	80321	2.03	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.03	264	78842	1.92	ng/ul	0.00

Target Compounds

					Ovalue	
6) Phenol	6.66	94	27379	1.685	ng/ul#	85
10) 2-Chlorophenol	7.01	128	21070	1.814	ng/ul	95
15) N-Nitroso-di-n-propylamine	8.24	70	20634	2.011	ng/ul	91
28) Naphthalene	10.25	128	15900373	397.359	ng/ul	99
33) 4-Chloro-3-methylphenol	11.50	107	22507	1.658	ng/ul#	1
34) 2-Methylnaphthalene	11.87	142	10602490	378.618	ng/ul	99
40) 1,1'-Biphenyl	12.90	154	1148029	32.849	ng/ul	96
47) Acenaphthylene	13.80	152	6443760	148.719	ng/ul	99
49) Acenaphthene	14.14	153	548731	18.629	ng/ul	97
53) Dibenzofuran	14.47	168	520644	12.693	ng/ul	94
54) 2,4-Dinitrotoluene	14.49	165	42942	4.312	ng/ul#	4
58) Fluorene	15.14	166	3126088	91.194	ng/ul	98
68) Pentachlorophenol	16.50	266	8070	1.422	ng/ul	87
69) Phenanthrene	16.89	178	12422117	250.123	ng/ul	98
71) Anthracene	16.97	178	3221319	63.925	ng/ul	100
74) Carbazole	17.24	167	79589	1.814	ng/ul#	78
76) Fluoranthene	18.91	202	6729483	118.722	ng/ul	99
79) Pyrene	19.28	202	12798617m	232.586	ng/ul	
82) Benzo(a)anthracene	21.03	228	3808131m	73.169	ng/ul	
84) Chrysene	21.09	228	3240620	62.544	ng/ul	99
87) Benzo(b)fluoranthene	22.56	252	3600048m	69.170	ng/ul	
88) Benzo(k)fluoranthene	22.57	252	1331321m	25.974	ng/ul	
90) Benzo(a)pyrene	23.09	252	3850080	79.842	ng/ul	97

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Indeno(1,2,3-cd)pyrene	25.24	276	1854989	32.356	ng/ul	93
92) Dibenzo(a,h)anthracene	25.24	278	569879	11.809	ng/ul#	94
93) Benzo(g,h,i)perylene	25.87	276	1942138	40.420	ng/ul	96

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

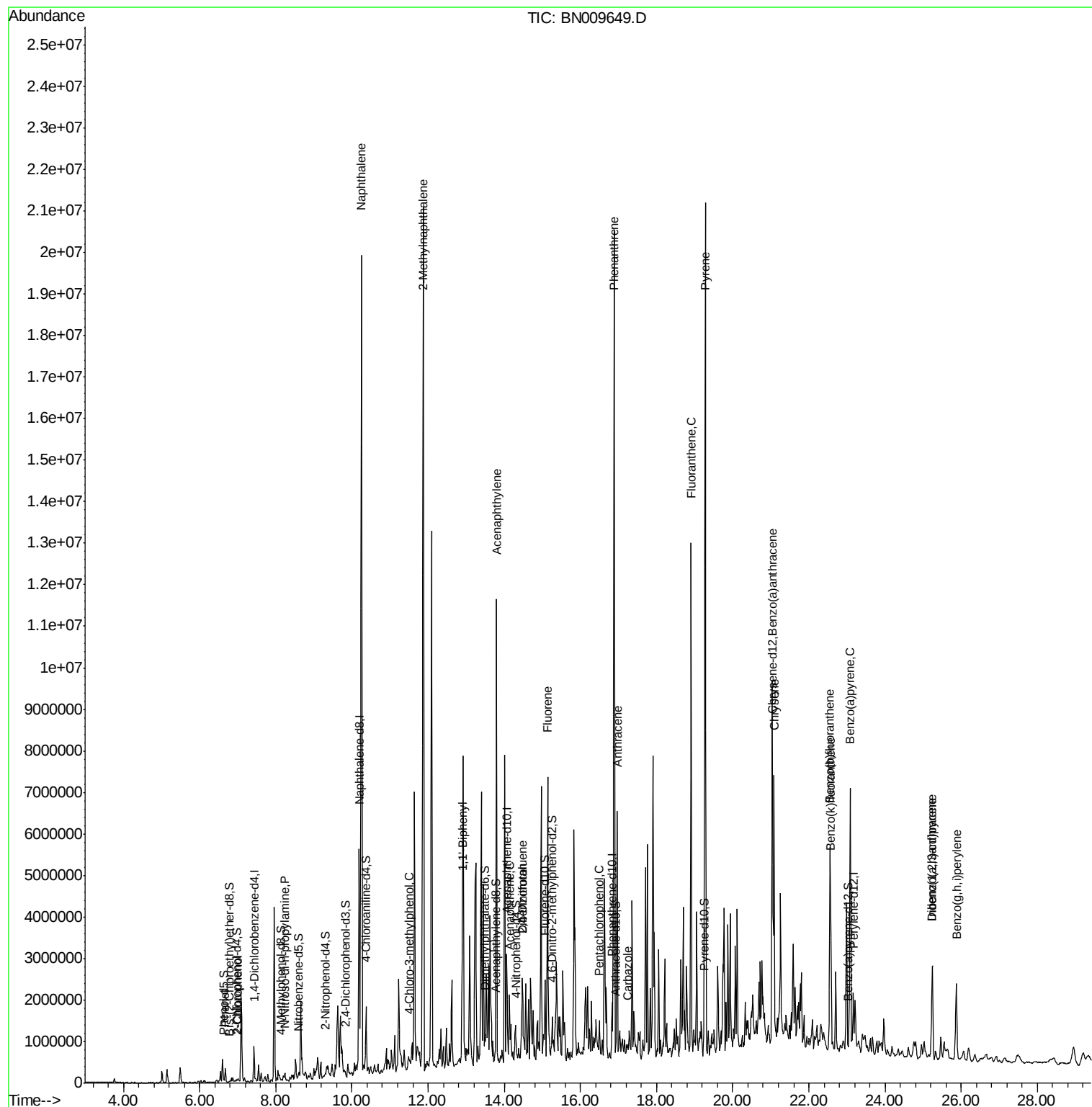
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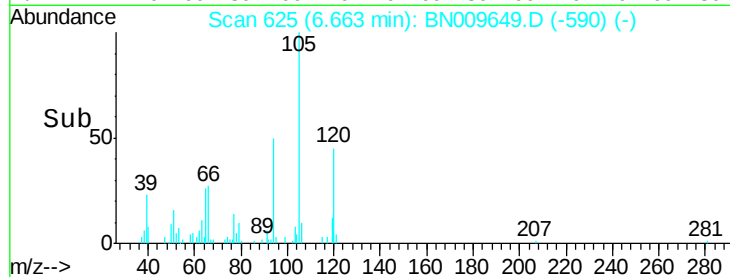
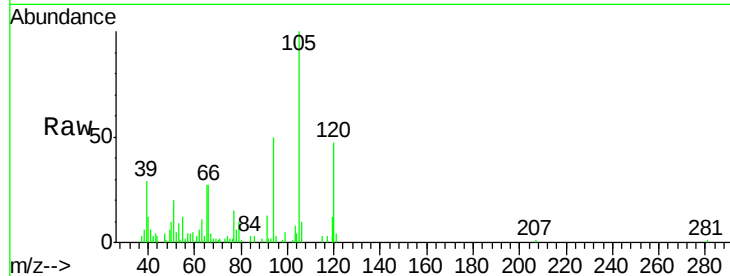
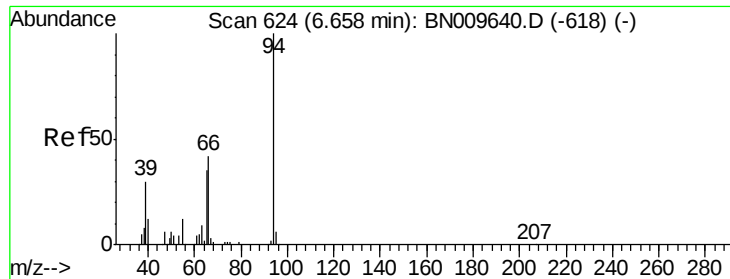
Instrument :
BNA_N
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#6

Phenol

Concen: 1.685 ng/ul

RT: 6.66 min Scan# 625

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Tot Ion:	94	Resp:	27379
Ion	Ratio	Lower	Upper
94	100		
65	53.4	29.8	44.6#
66	53.1	39.5	59.3

Instrument :

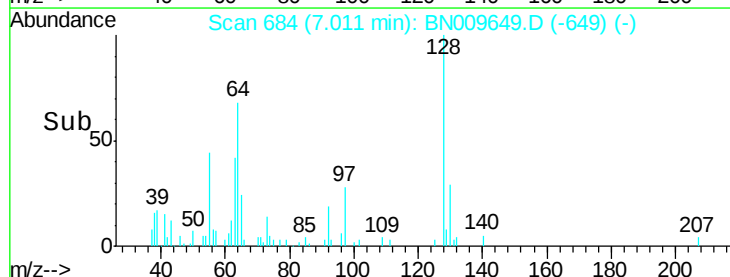
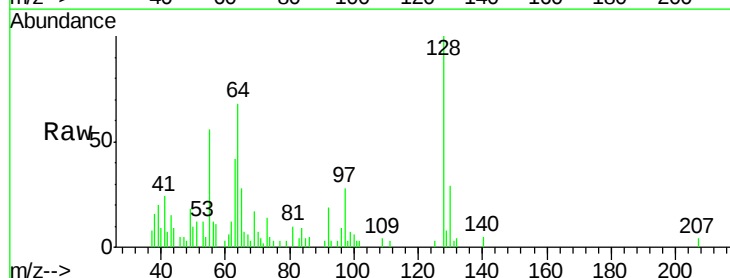
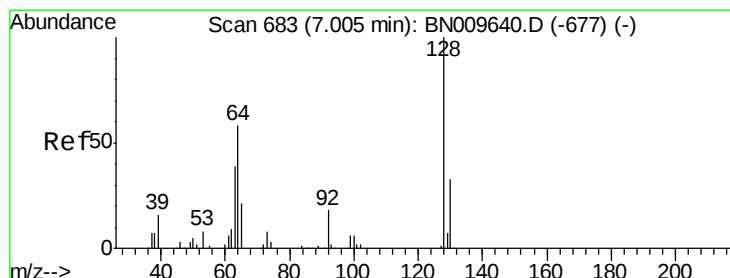
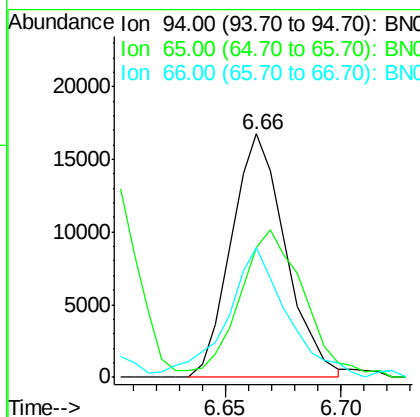
BNA_N

ClientSampleId :

GAT66MSD

Manual Integrations
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#10

2-Chlorophenol

Concen: 1.814 ng/ul

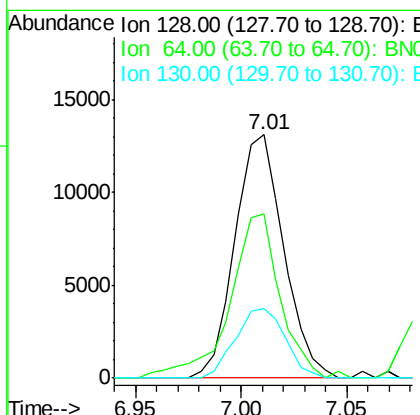
RT: 7.01 min Scan# 684

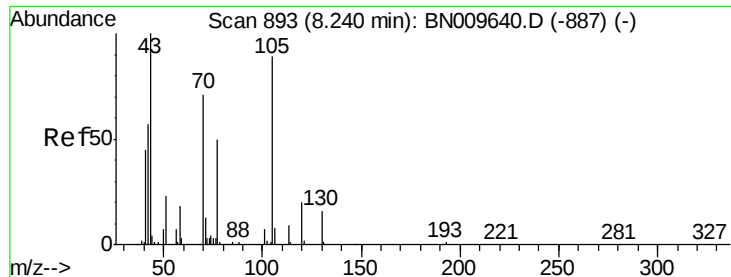
Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Tgt Ion:	128	Resp:	21070
Ion	Ratio	Lower	Upper
128	100		
64	67.6	51.6	77.4
130	28.5	25.5	38.3





#15

N-Nitroso-di-n-propylamine

Concen: 2.011 ng/ul

RT: 8.24 min Scan# 893

Delta R.T. -0.00 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Instrument :

BNA_N

ClientSampleId :

GAT66MSD

Tot Ion: 70 Resp: 20634

Ion Ratio Lower Upper

70 100

42 94.2 68.3 102.5

101 7.9 7.4 11.0

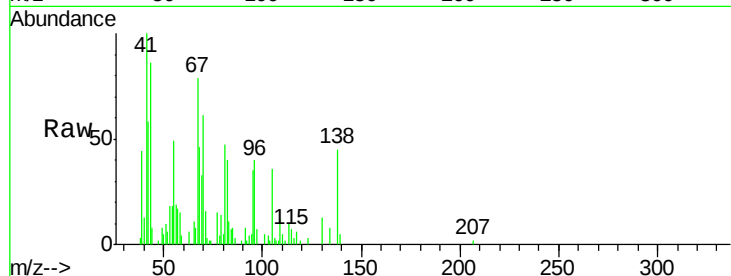
130 21.0 14.2 21.2

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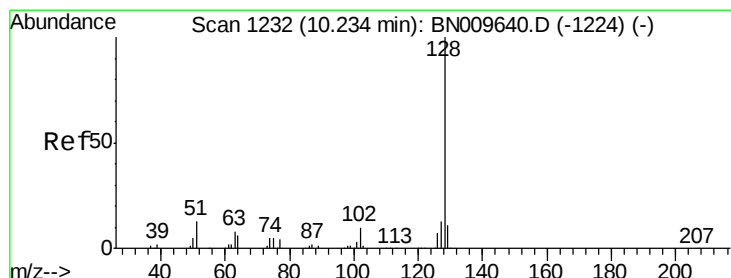
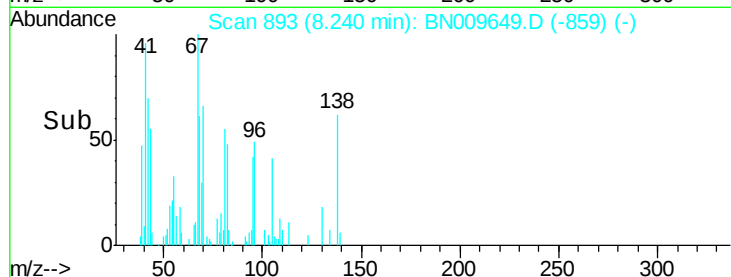
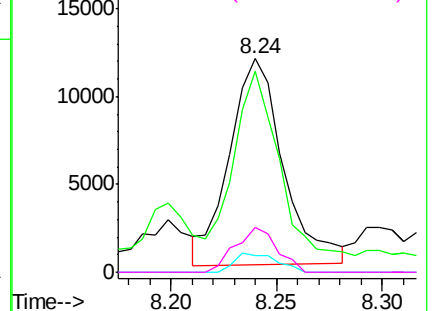


Abundance Ion 70.00 (69.70 to 70.70): BN009640.D (-887) (-)

Ion 42.00 (41.70 to 42.70): BN009640.D (-887) (-)

Ion 101.00 (100.70 to 101.70): BN009640.D (-887) (-)

Ion 130.00 (129.70 to 130.70): BN009640.D (-887) (-)



#28

Naphthalene

Concen: 397.359 ng/ul

RT: 10.25 min Scan# 1234

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

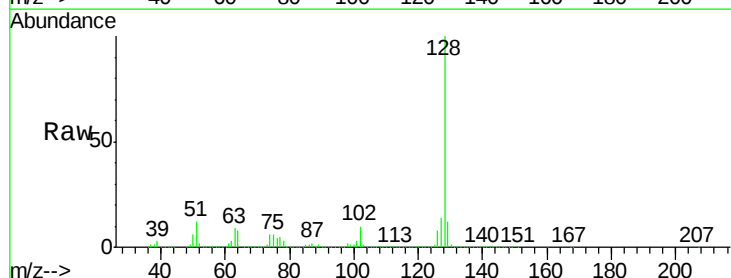
Tgt Ion:128 Resp:15900373

Ion Ratio Lower Upper

128 100

129 11.5 8.7 13.1

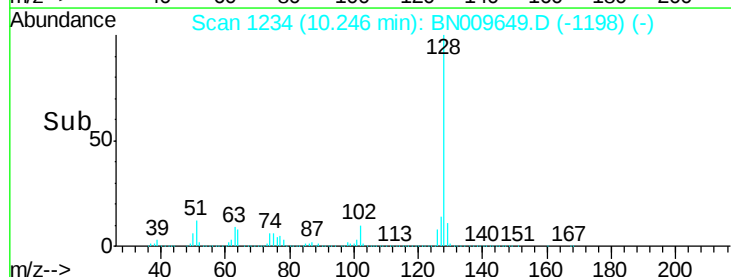
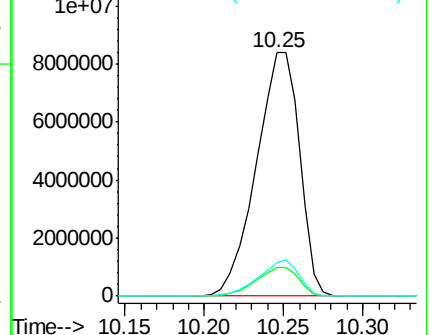
127 13.6 10.7 16.1

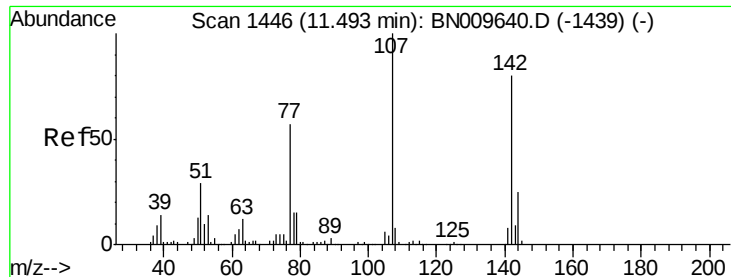


Abundance Ion 128.00 (127.70 to 128.70): BN009640.D (-1224) (-)

Ion 129.00 (128.70 to 129.70): BN009640.D (-1224) (-)

Ion 127.00 (126.70 to 127.70): BN009640.D (-1224) (-)





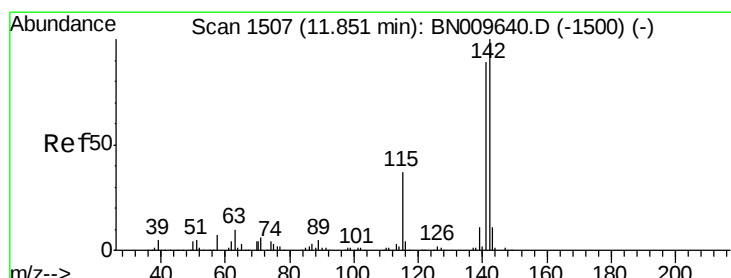
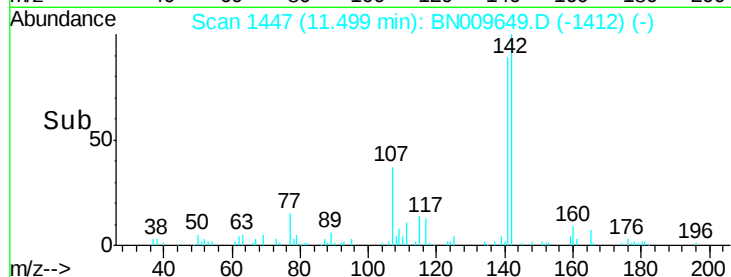
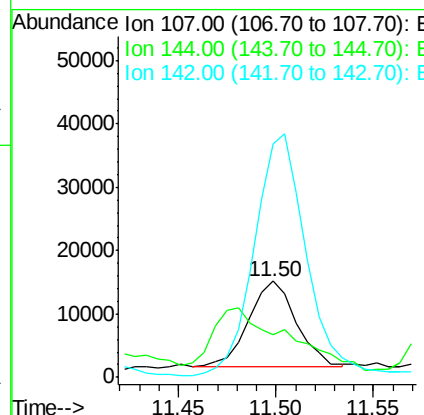
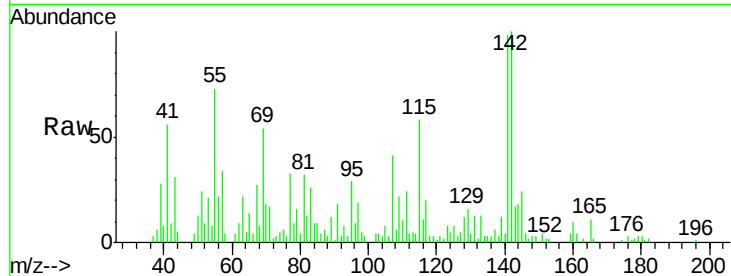
#33
4-Chloro-3-methylphenol
Concen: 1.658 ng/ul
RT: 11.50 min Scan# 1447
Delta R.T. 0.01 min
Lab File: BN009649.D
Acq: 07 Feb 2020 15:37

Instrument :
BNA_N
ClientSampled :
GAT66MSD

Tot Ion	Ratio	Lower	Upper
107	100		
144	44.0	19.2	28.8#
142	243.8	61.3	91.9#

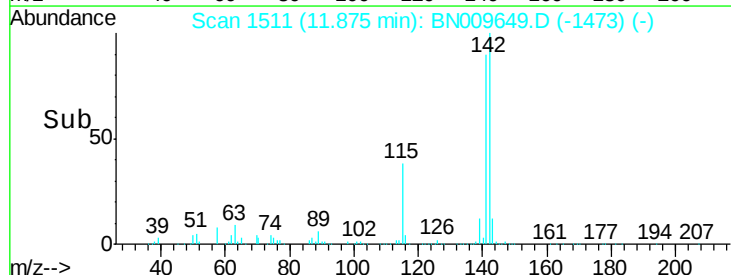
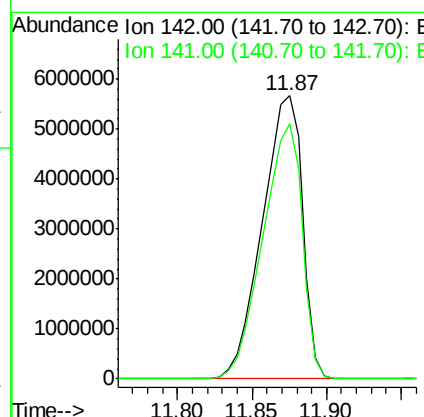
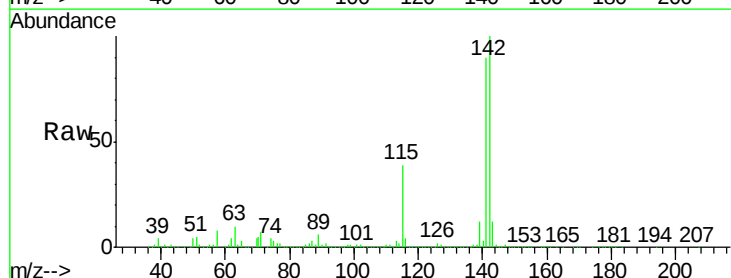
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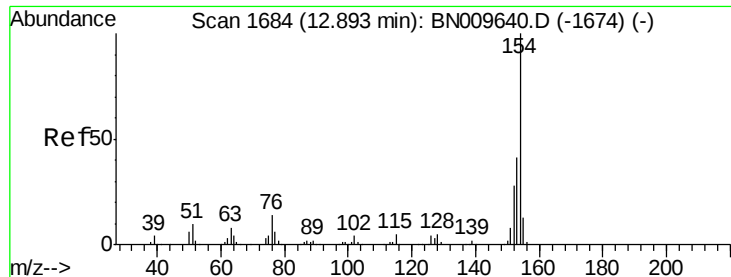
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#34
2-Methylnaphthalene
Concen: 378.618 ng/ul
RT: 11.87 min Scan# 1511
Delta R.T. 0.02 min
Lab File: BN009649.D
Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.5	107.3





#40

1,1'-Biphenyl

Concen: 32.849 ng/ul

RT: 12.90 min Scan# 1685

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Instrument :

BNA_N

ClientSampled :

GAT66MSD

Tot Ion:154 Resp: 1148029

Ion Ratio Lower Upper

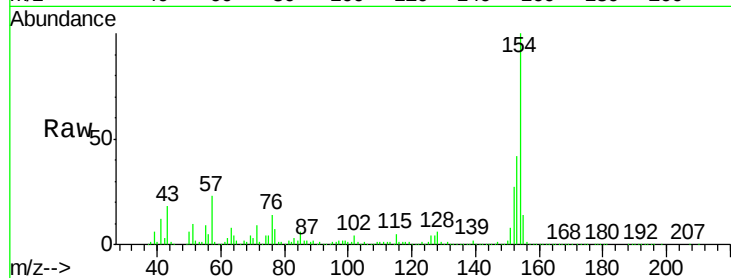
154 100

153 41.9 31.2 46.8

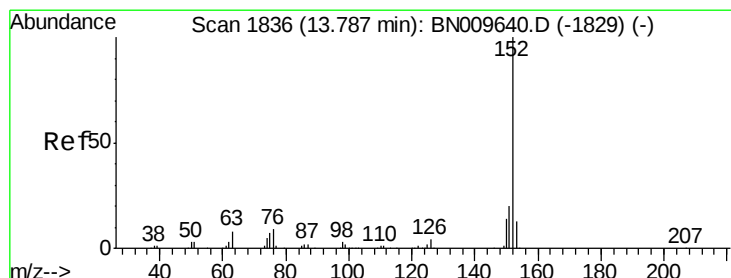
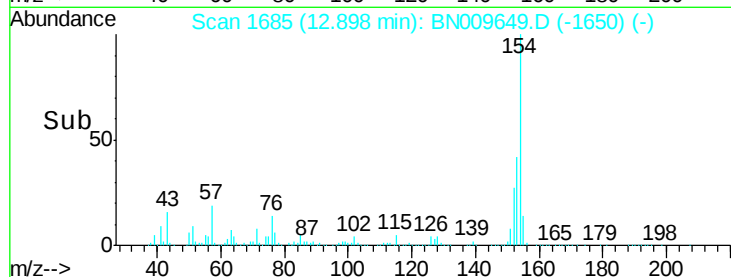
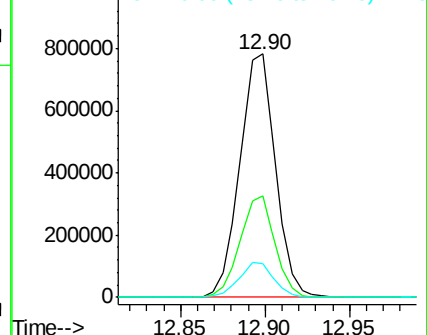
76 13.7 11.4 17.2

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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: 148.719 ng/ul

RT: 13.80 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

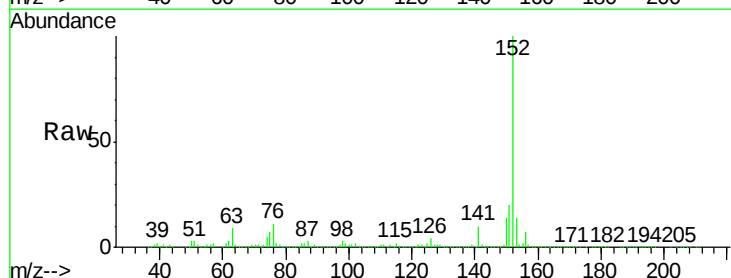
Tgt Ion:152 Resp: 6443760

Ion Ratio Lower Upper

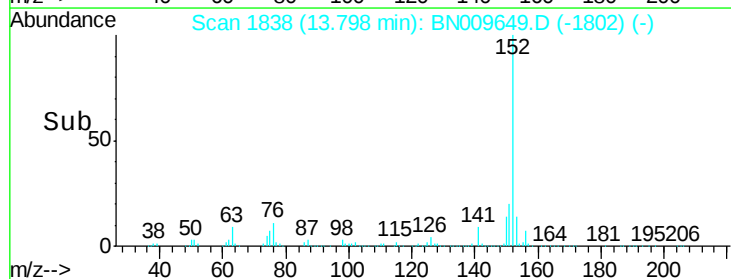
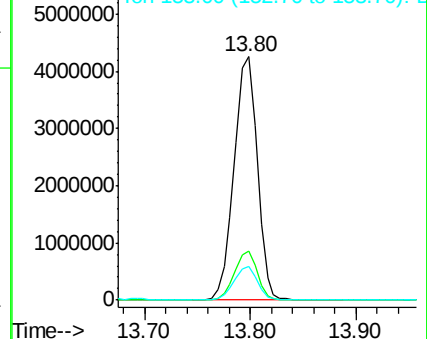
152 100

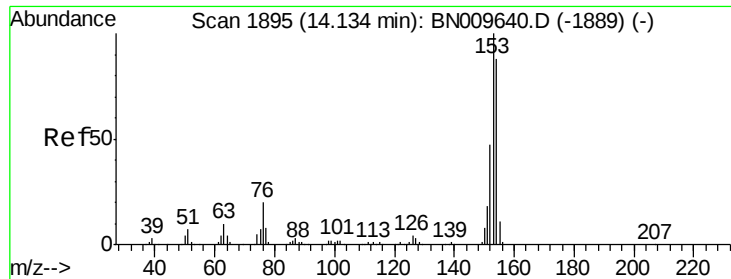
151 20.0 16.2 24.2

153 14.1 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: 18.629 ng/ul

RT: 14.14 min Scan# 1896

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Instrument :

BNA_N

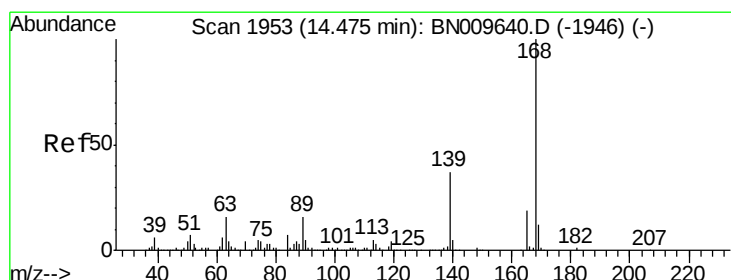
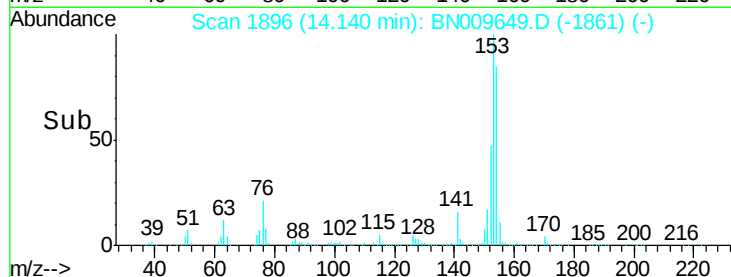
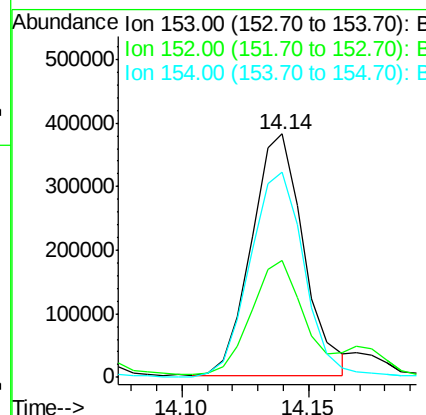
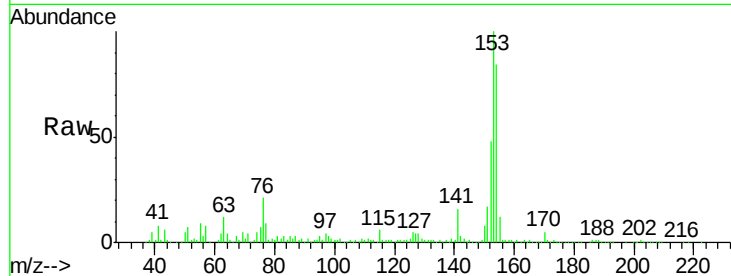
ClientSampleId :

GAT66MSD

Tot Ion:	153	Resp:	548731
Ion Ratio	Lower	Upper	
153	100		
152	48.0	37.3	55.9
154	84.3	70.2	105.2

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#53

Dibenzofuran

Concen: 12.693 ng/ul

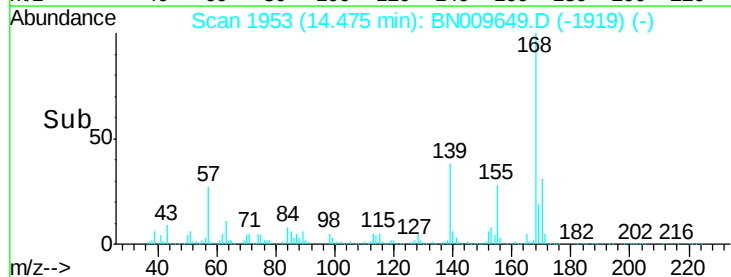
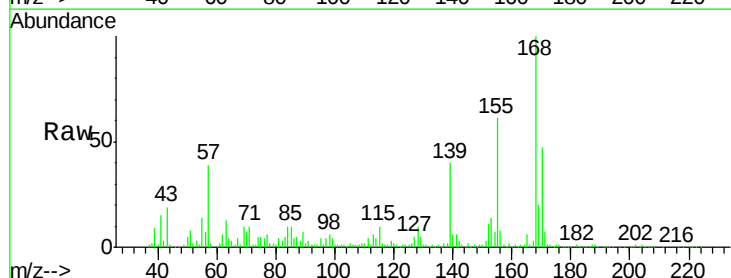
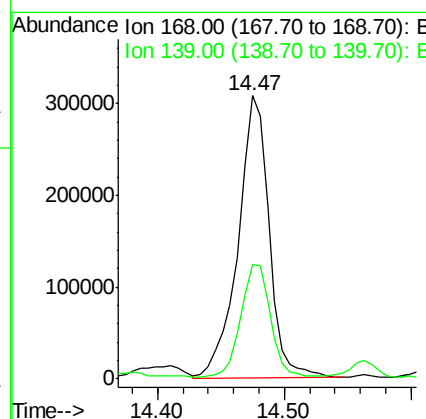
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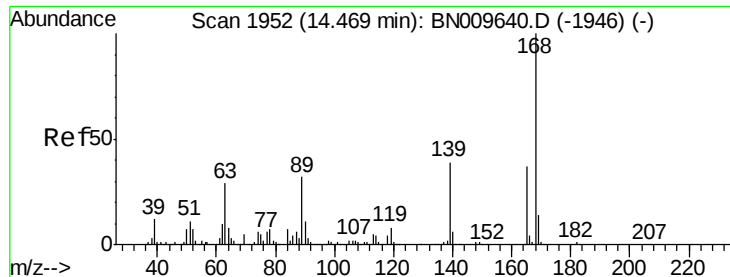
Delta R.T. -0.00 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Tgt Ion:	168	Resp:	520644
Ion Ratio	Lower	Upper	
168	100		
139	40.2	29.5	44.3





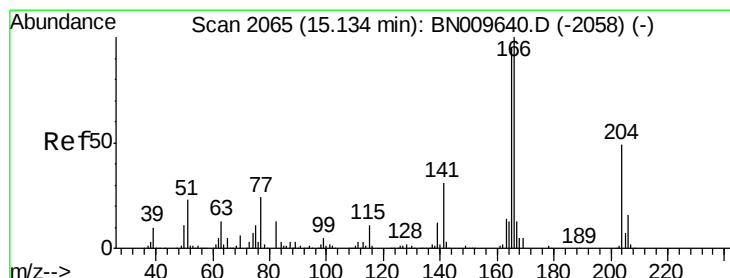
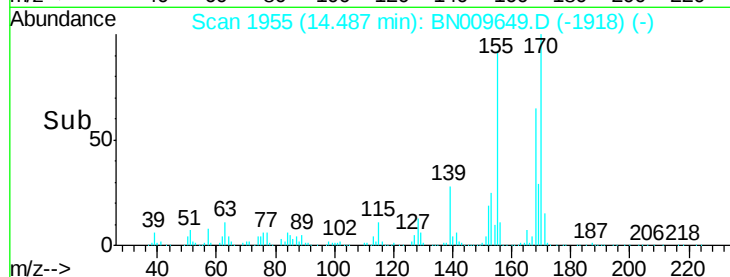
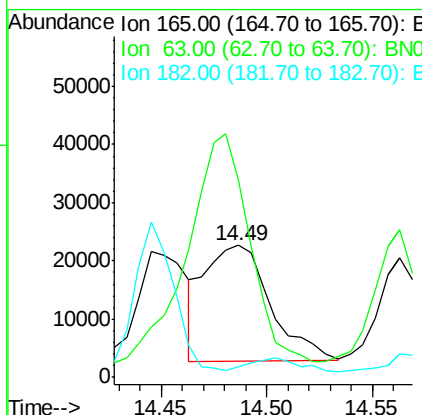
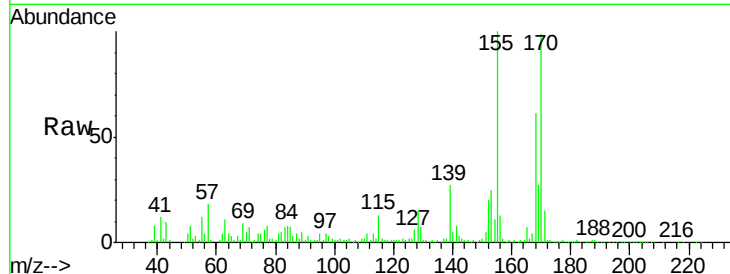
#54
 2,4-Dinitrotoluene
 Concen: 4.312 ng/ul
 RT: 14.49 min Scan# 1955
 Delta R.T. 0.02 min
 Lab File: BN009649.D
 Acq: 07 Feb 2020 15:37

Instrument :
 BNA_N
 ClientSampleId :
 GAT66MSD

Tot Ion	Ratio	Lower	Upper
165	100		
63	149.9	55.0	82.4#
182	8.4	2.4	3.6#

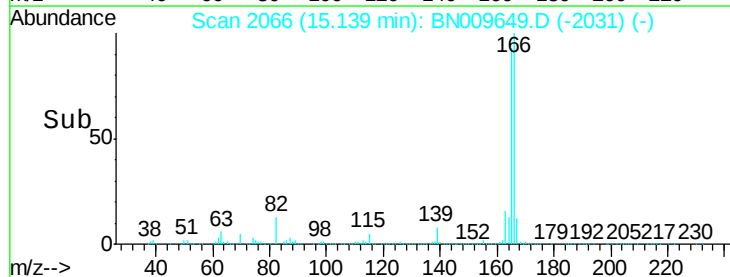
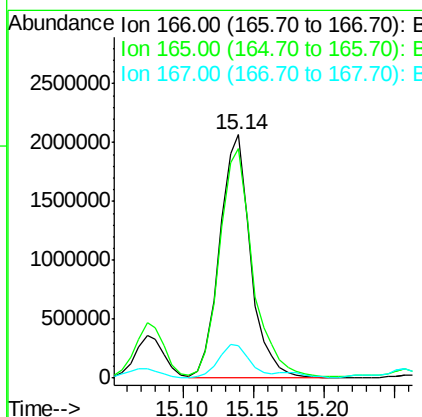
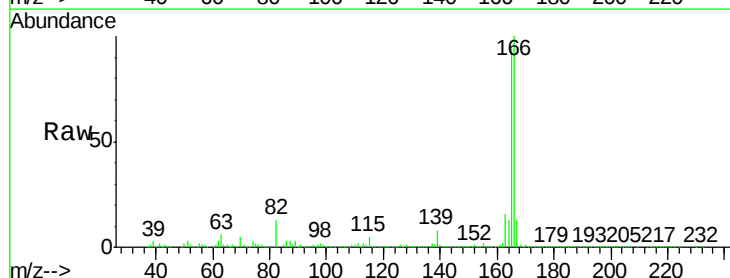
Manual Integrations
 APPROVED

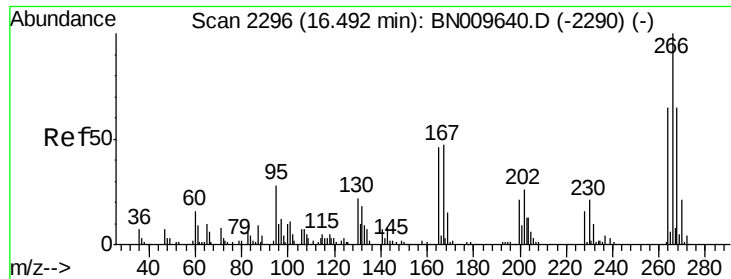
mohammad
 2/11/2020 8:23:25 AM



#58
 Fluorene
 Concen: 91.194 ng/ul
 RT: 15.14 min Scan# 2066
 Delta R.T. 0.01 min
 Lab File: BN009649.D
 Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.1	76.7	115.1
167	13.2	11.1	16.7





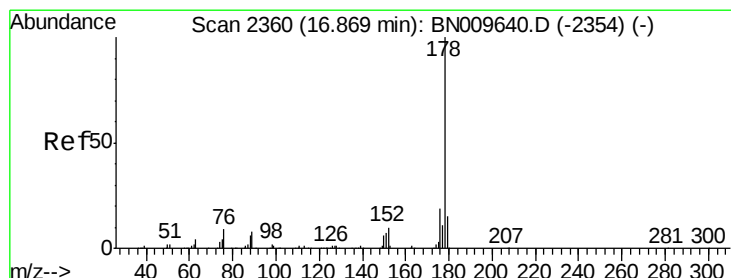
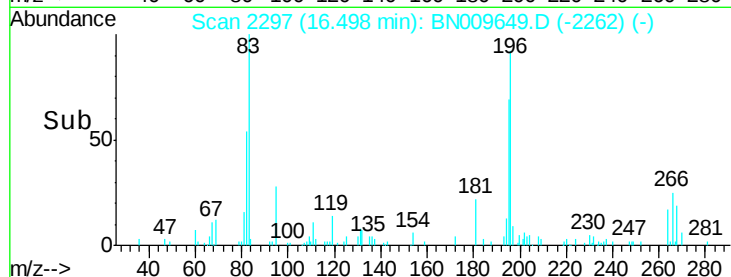
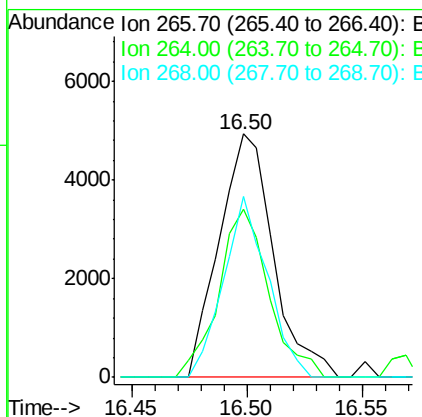
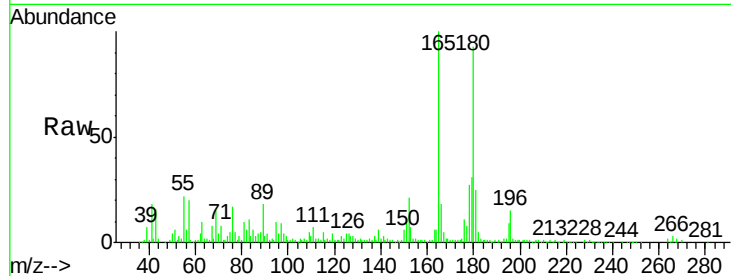
#68
 Pentachlorophenol
 Concen: 1.422 ng/ul
 RT: 16.50 min Scan# 2297
 Delta R.T. 0.01 min
 Lab File: BN009649.D
 Acq: 07 Feb 2020 15:37

Instrument :
 BNA_N
 ClientSampleId :
 GAT66MSD

Tot Ion	Ratio	Lower	Upper
266	100		
264	69.2	48.1	72.1
268	74.4	50.4	75.6

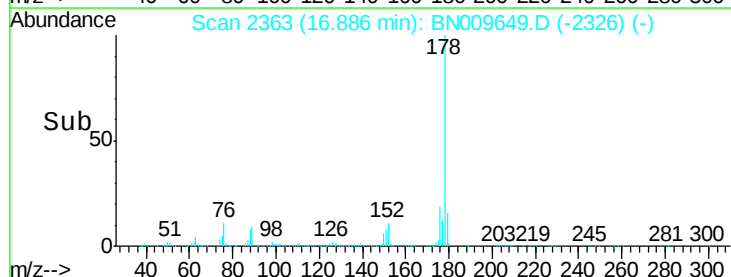
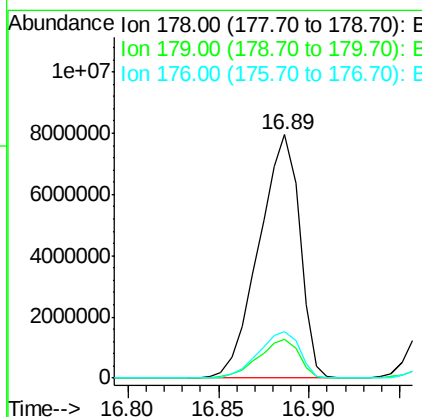
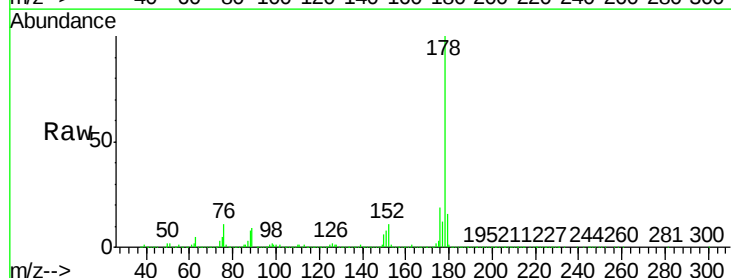
Manual Integrations
 APPROVED

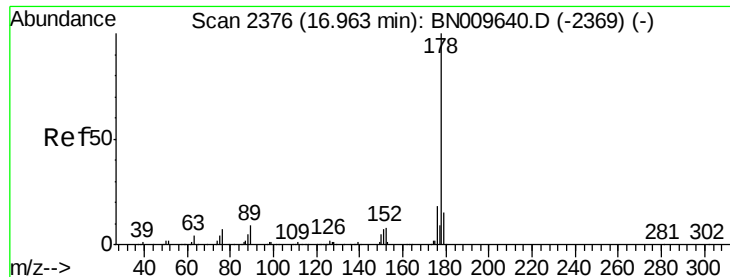
mohammad
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#69
 Phenanthrene
 Concen: 250.123 ng/ul
 RT: 16.89 min Scan# 2363
 Delta R.T. 0.02 min
 Lab File: BN009649.D
 Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.2	18.2
176	19.2	14.8	22.2





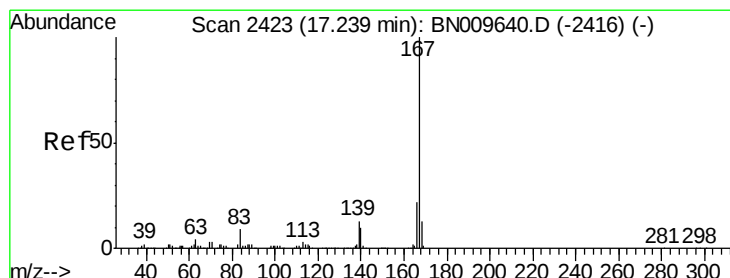
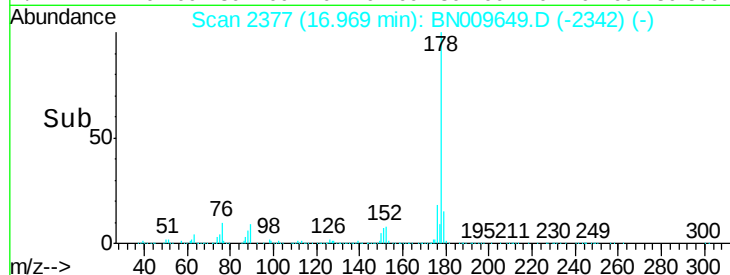
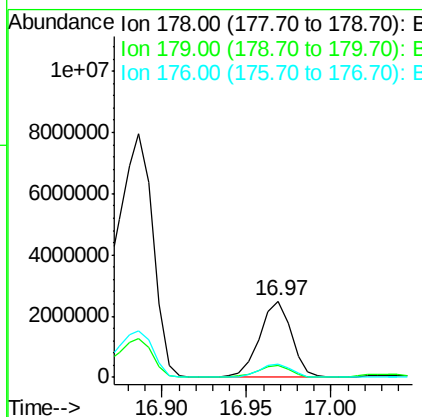
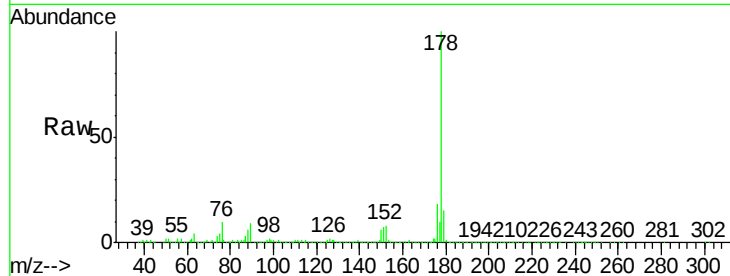
#71
 Anthracene
 Concen: 63.925 ng/ul
 RT: 16.97 min Scan# 2377
 Delta R.T. 0.01 min
 Lab File: BN009649.D
 Acq: 07 Feb 2020 15:37

Instrument :
 BNA_N
 ClientSampleId :
 GAT66MSD

Tot Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.1	18.1
176	18.1	14.6	21.8

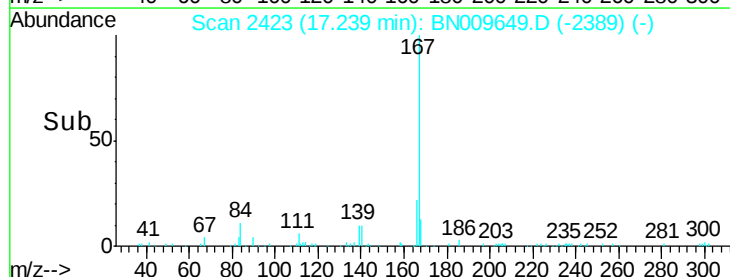
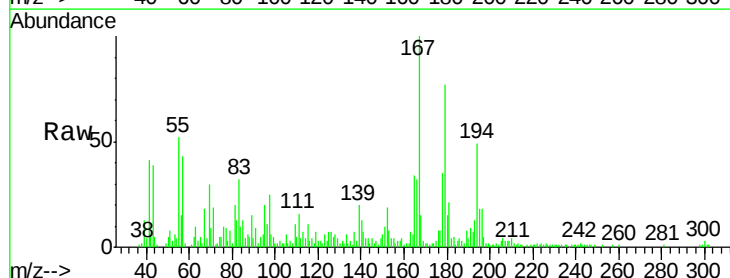
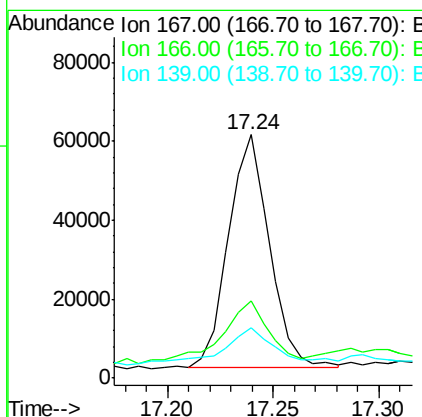
Manual Integrations
 APPROVED

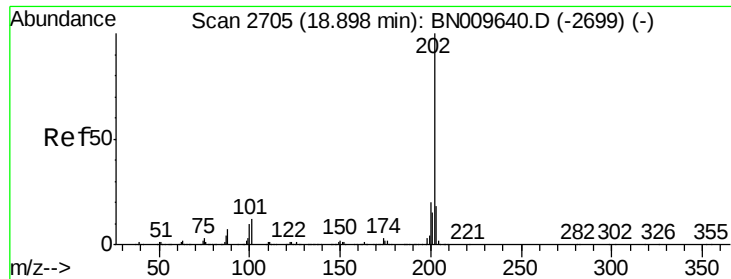
mohammad
 2/11/2020 8:23:25 AM



#74
 Carbazole
 Concen: 1.814 ng/ul
 RT: 17.24 min Scan# 2423
 Delta R.T. -0.00 min
 Lab File: BN009649.D
 Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
167	100		
166	31.7	16.2	24.4#
139	20.4	10.4	15.6#





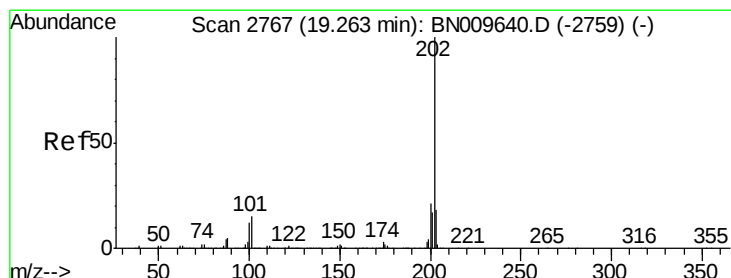
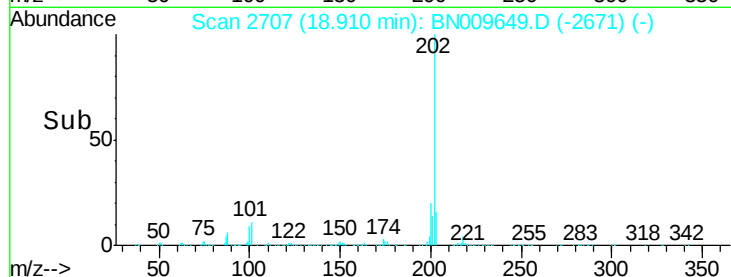
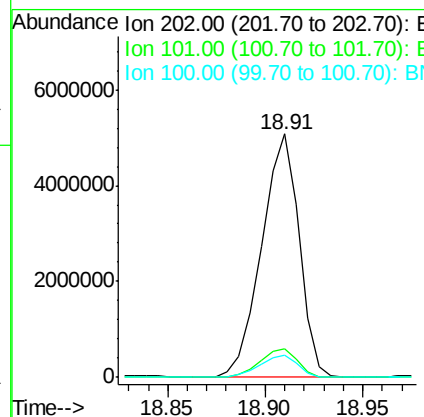
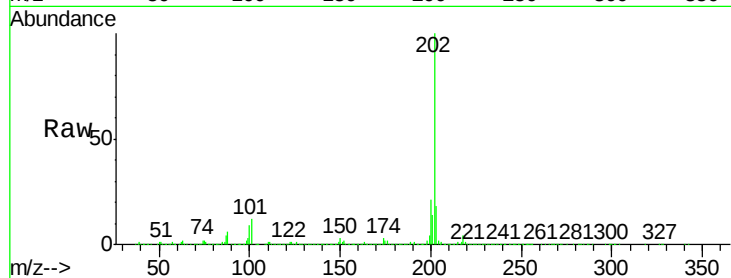
#76
Fluoranthene
Concen: 118.722 ng/ul
RT: 18.91 min Scan# 2707
Delta R.T. 0.01 min
Lab File: BN009649.D
Acq: 07 Feb 2020 15:37

Instrument :
BNA_N
ClientSampleId :
GAT66MSD

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.2	13.8
100	9.1	6.9	10.3

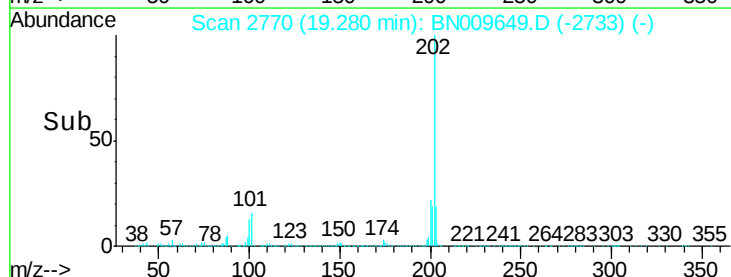
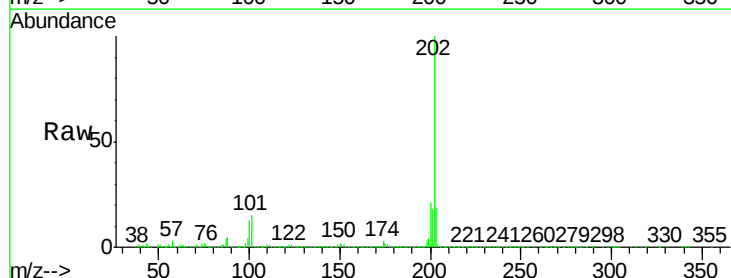
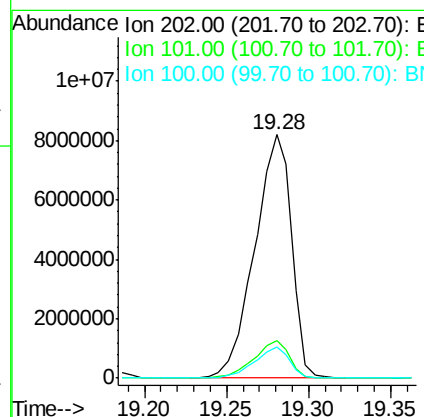
Manual Integrations
APPROVED

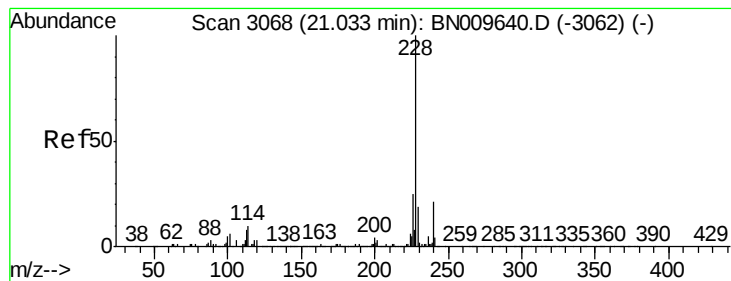
mohammad
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#79
Pyrene
Concen: 232.586 ng/ul m
RT: 19.28 min Scan# 2770
Delta R.T. 0.02 min
Lab File: BN009649.D
Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.4	10.3	15.5
100	12.7	8.4	12.6#





#82

Benzo(a)anthracene

Concen: 73.169 ng/ul

RT: 21.03 min Scan# 3068

Delta R.T. -0.00 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Instrument :

BNA_N

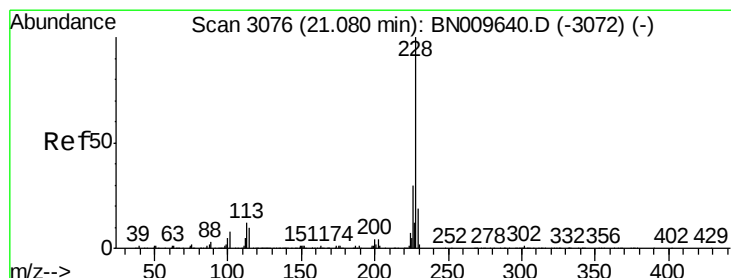
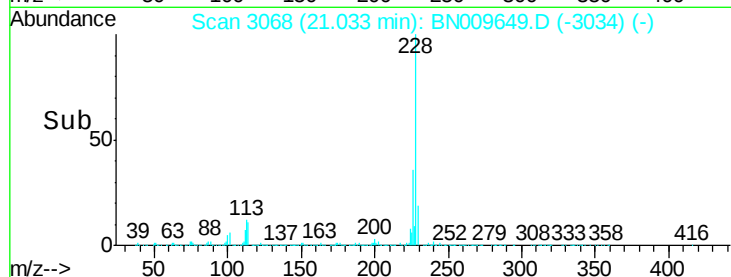
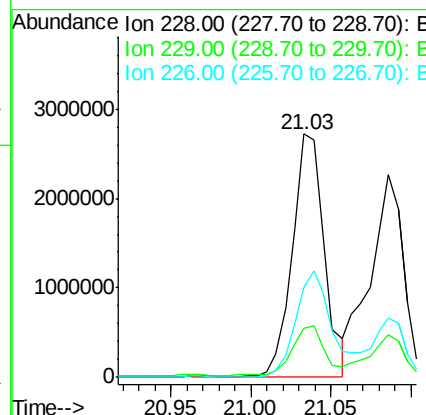
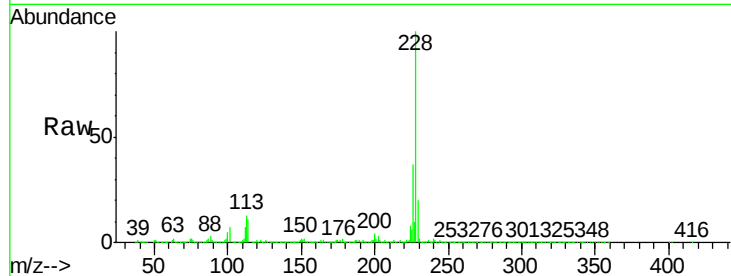
ClientSampleId :

GAT66MSD

Tot Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.0	22.4
226	36.8	20.9	31.3

Manual Integrations
APPROVED

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#84

Chrysene

Concen: 62.544 ng/ul

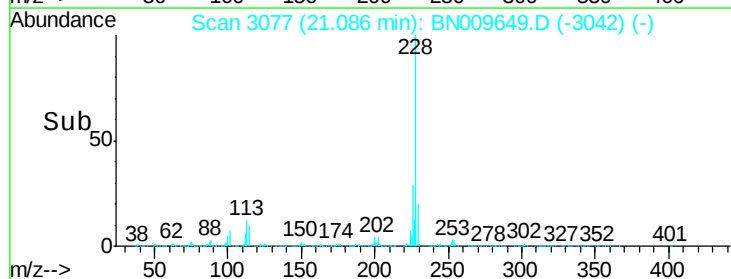
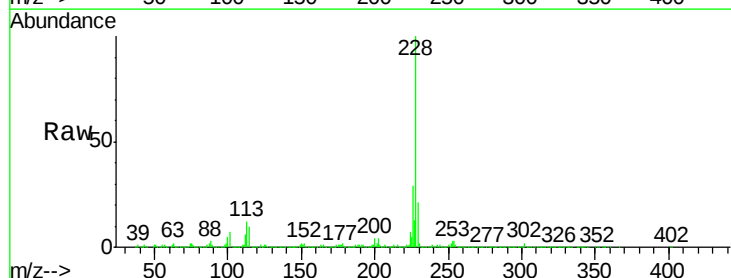
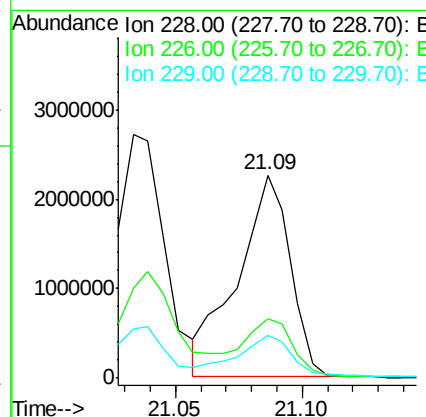
RT: 21.09 min Scan# 3077

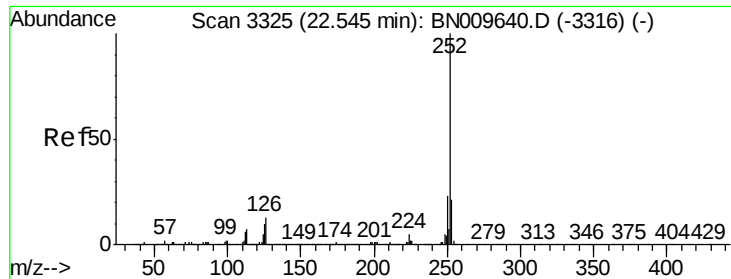
Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.5	35.3
229	21.0	15.8	23.8





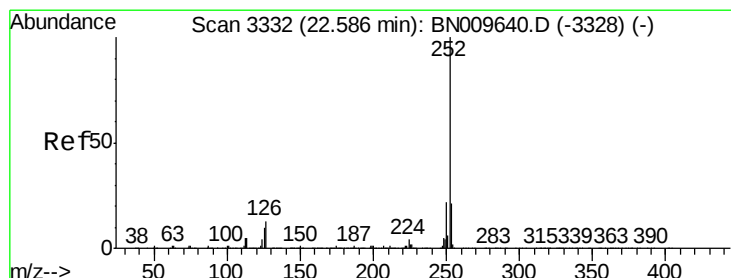
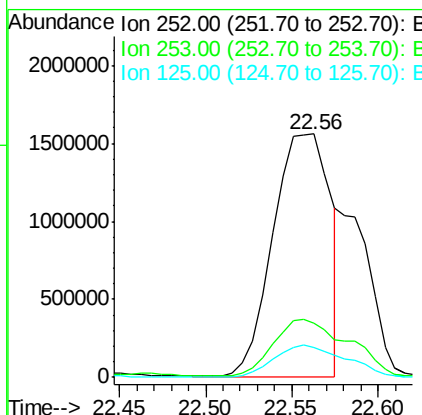
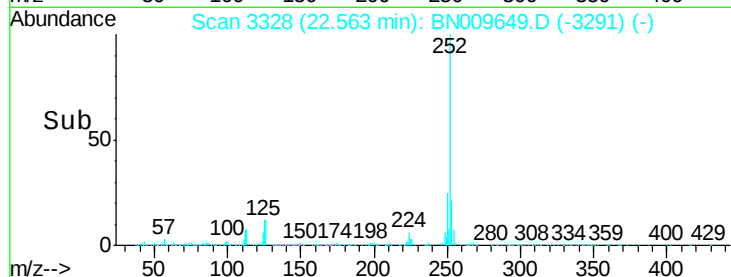
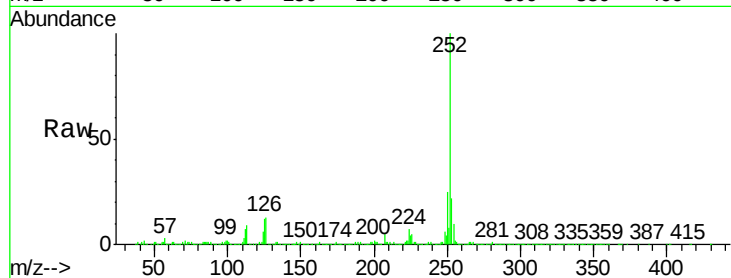
#87
Benzo(b)fluoranthene
Concen: 69.170 ng/ul m
RT: 22.56 min Scan# 3328
Delta R.T. 0.02 min
Lab File: BN009649.D
Acq: 07 Feb 2020 15:37

Instrument :
BNA_N
ClientSampleId :
GAT66MSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	12.2	8.2	12.2

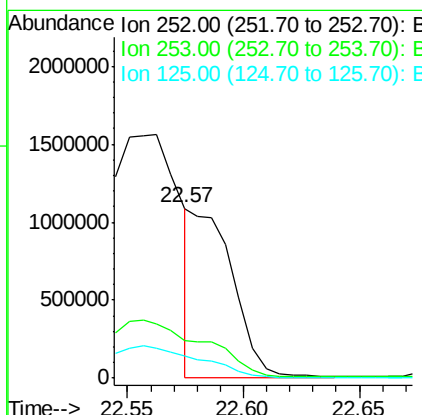
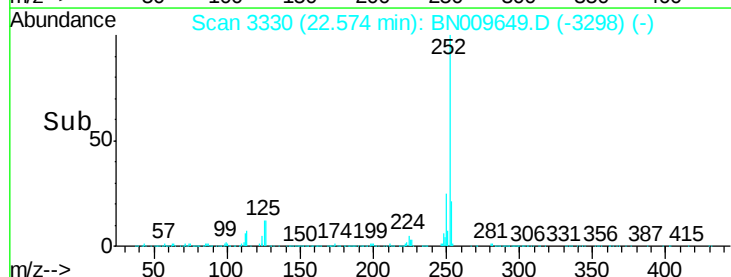
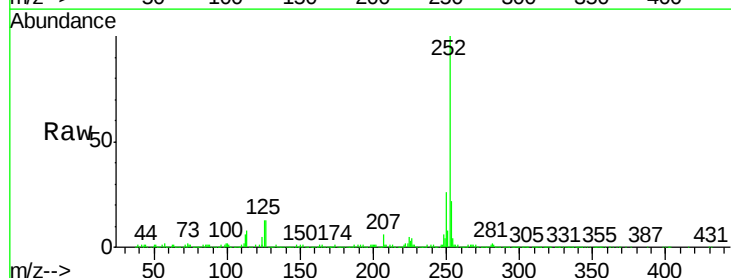
Manual Integrations
APPROVED

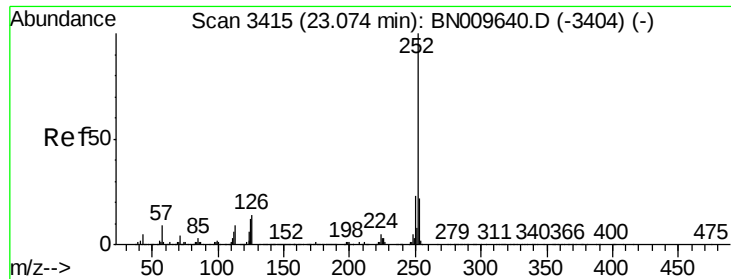
mohammad
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#88
Benzo(k)fluoranthene
Concen: 25.974 ng/ul m
RT: 22.57 min Scan# 3330
Delta R.T. -0.01 min
Lab File: BN009649.D
Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.4
125	12.9	8.0	12.0#





#90

Benzo(a)pyrene

Concen: 79.842 ng/ul

RT: 23.09 min Scan# 3417

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Instrument :

BNA_N

ClientSampled :

GAT66MSD

Tot Ion:252 Resp: 3850080

Ion Ratio Lower Upper

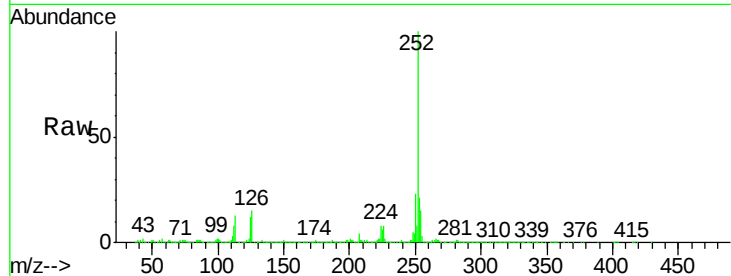
252 100

253 21.5 15.8 23.8

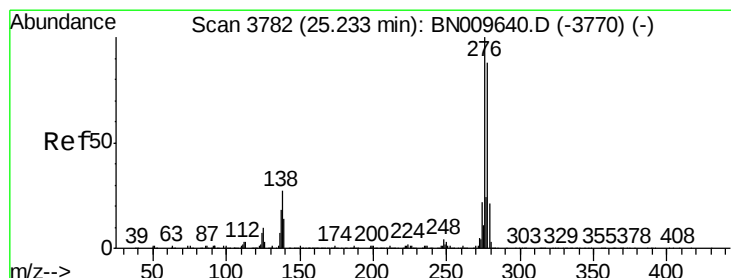
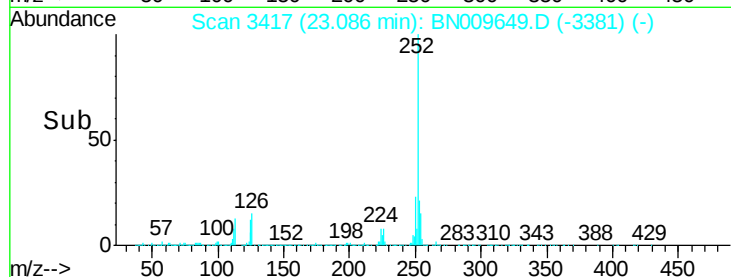
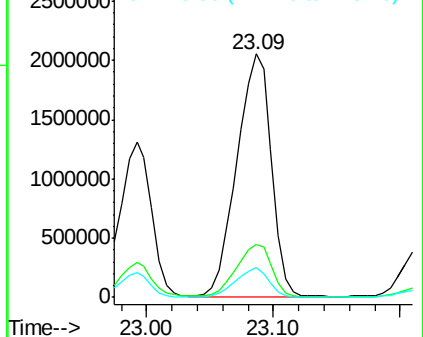
125 12.0 8.7 13.1

Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Indeno(1,2,3-cd)pyrene

Concen: 32.356 ng/ul

RT: 25.24 min Scan# 3784

Delta R.T. 0.01 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

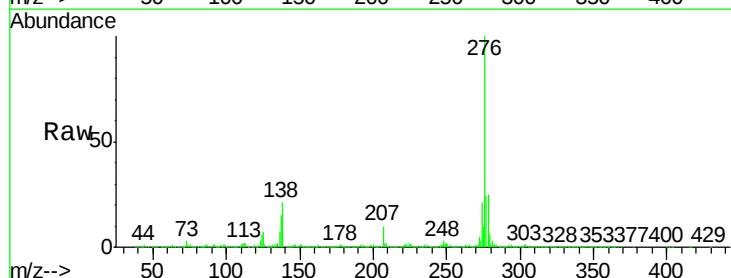
Tgt Ion:276 Resp: 1854989

Ion Ratio Lower Upper

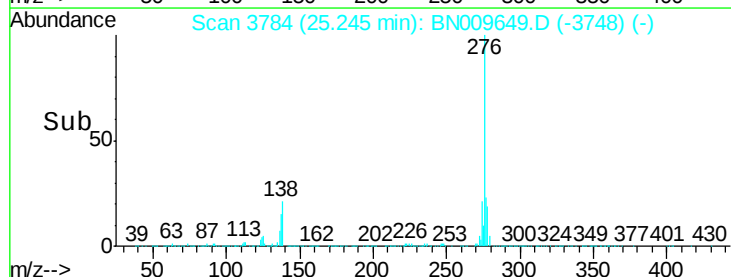
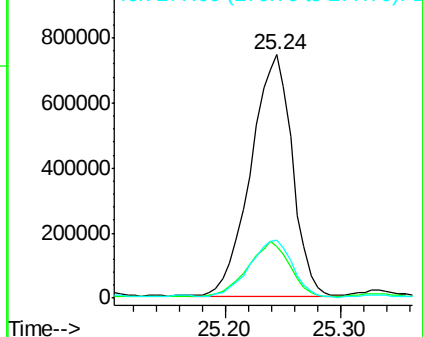
276 100

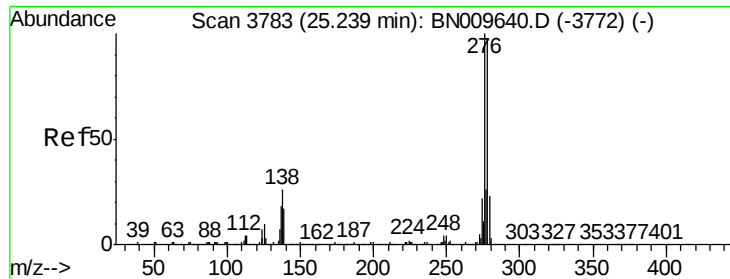
138 21.0 20.3 30.5

277 23.7 21.2 31.8



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





#92

Dibenzo(a,h)anthracene

Concen: 11.809 ng/ul

RT: 25.24 min Scan# 3783

Delta R.T. -0.00 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

Instrument :

BNA_N

ClientSampled :

GAT66MSD

Tot Ion:278 Resp: 569879

Ion Ratio Lower Upper

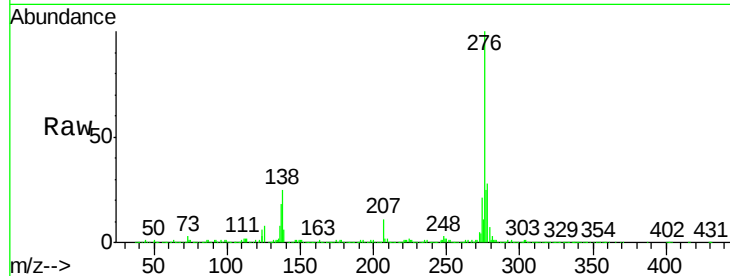
278 100

139 21.5 12.7 19.1#

279 23.8 19.8 29.8

Manual Integrations
APPROVED

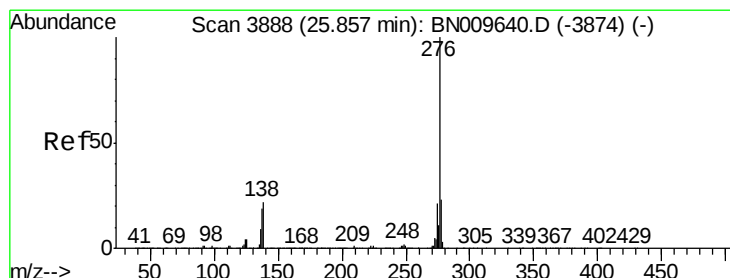
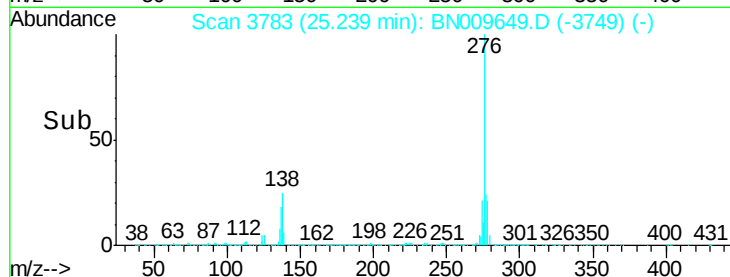
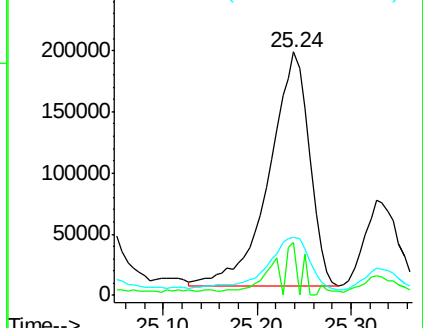
mohammad
2/11/2020 8:23:25 AM



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#93

Benzo(g,h,i)perylene

Concen: 40.420 ng/ul

RT: 25.87 min Scan# 3891

Delta R.T. 0.02 min

Lab File: BN009649.D

Acq: 07 Feb 2020 15:37

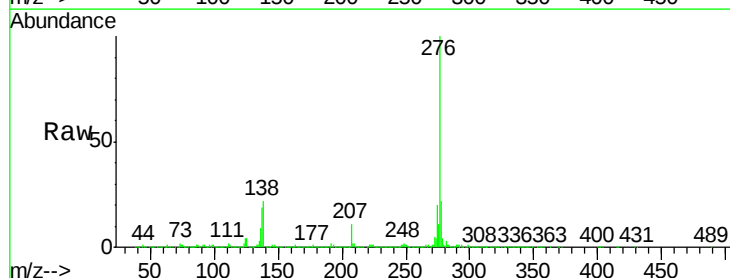
Tgt Ion:276 Resp: 1942138

Ion Ratio Lower Upper

276 100

138 22.3 16.0 24.0

277 22.3 17.0 25.6



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

