

Data Path : Z:\HPCHEM1\BNA_M\Data\BM010215\
 Data File : BM000101.D
 Acq On : 02 Jan 2015 09:40
 Operator : TP/IZ
 Sample : SSTD02011
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTD02011

Manual Integrations
 APPROVED

TEJASKUMAR
 1/6/2015 1:36:34 PM

Quant Time: Jan 03 05:36:08 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM122914.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 31 02:57:11 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	247717	20.00	ng/ul	0.00
18) Naphthalene-d8	10.63	136	1089138	20.00	ng/ul	-0.01
35) Acenaphthene-d10	14.47	164	769836	20.00	ng/ul	-0.01
61) Phenanthrene-d10	17.21	188	1615955	20.00	ng/ul	-0.01
75) Chrysene-d12	21.40	240	1618696	20.00	ng/ul	-0.01
83) Perylene-d12	23.69	264	1324884	20.00	ng/ul	-0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.32	96	33419	7.82	ng/uL	-0.01
5) Phenol-d5	7.00	99	413177	19.25	ng/ul	-0.01
7) Bis-(2-Chloroethyl)ether-d	7.17	67	254732	19.42	ng/ul	-0.01
9) 2-Chlorophenol-d4	7.37	132	299351	19.59	ng/ul	0.00
13) 4-Methylphenol-d8	8.54	113	327466	19.32	ng/ul	0.00
19) Nitrobenzene-d5	9.00	128	153128	20.33	ng/ul	0.00
22) 2-Nitrophenol-d4	9.72	143	160713m	20.93	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.24	165	326067m	19.12	ng/ul	-0.01
29) 4-Chloroaniline-d4	10.77	131	420632	21.83	ng/ul	0.00
43) Dimethylphthalate-d6	13.89	166	1077388	18.98	ng/ul	0.00
46) Acenaphthylene-d8	14.16	160	1303297	19.16	ng/ul	-0.01
51) 4-Nitrophenol-d4	14.67	143	168061	18.32	ng/ul	0.00
57) Fluorene-d10	15.47	176	929993	19.07	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.58	200	149378	18.64	ng/ul	0.00
70) Anthracene-d10	17.32	188	1439039	19.26	ng/ul	0.00
76) Pyrene-d10	19.60	212	1581945	21.19	ng/ul	-0.01
87) Benzo(a)pyrene-d12	23.55	264	1176082	19.67	ng/ul	-0.01

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.35	88	42513	7.18	ng/uL	97
4) Benzaldehyde	6.97	77	297355	22.24	ng/ul	97
6) Phenol	7.02	94	428698	19.19	ng/ul	90
8) Bis(2-Chloroethyl)ether	7.26	93	323224	18.92	ng/ul	95
10) 2-Chlorophenol	7.40	128	310889	19.44	ng/ul	96
11) 2-Methylphenol	8.28	108	336165	19.50	ng/ul	98
12) 2,2'-oxybis(1-Chloropropan	8.37	45	562976	20.46	ng/ul	97
14) Acetophenone	8.65	105	561658	19.41	ng/ul	97
15) N-Nitroso-di-n-propylamine	8.64	70	299382	19.76	ng/ul	95
16) 4-Methylphenol	8.60	108	357391	19.17	ng/ul	96
17) Hexachloroethane	8.92	117	144660	19.80	ng/ul	94
20) Nitrobenzene	9.03	77	454062	20.22	ng/ul	98
21) Isophorone	9.56	82	836112	19.32	ng/ul	99
23) 2-Nitrophenol	9.75	139	169791	20.00	ng/ul#	90
24) 2,4-Dimethylphenol	9.80	107	447411	19.42	ng/ul	97
25) Bis(2-Chloroethoxy)methane	10.04	93	456941	18.96	ng/ul	98
27) 2,4-Dichlorophenol	10.28	162	326450	19.26	ng/ul	98
28) Naphthalene	10.68	128	1062398	19.13	ng/ul	99
30) 4-Chloroaniline	10.79	127	412003	20.67	ng/ul	97
31) Hexachlorobutadiene	10.96	225	240576	20.02	ng/ul	96
32) Caprolactam	11.54	113	103082	18.26	ng/ul	92
33) 4-Chloro-3-methylphenol	11.91	107	412956	19.85	ng/ul	99
34) 2-Methylnaphthalene	12.29	142	784394	19.05	ng/ul	100

Data Path : Z:\HPCHEM1\BNA_M\Data\BM010215\
 Data File : BM000101.D
 Acq On : 02 Jan 2015 09:40
 Operator : TP/IZ
 Sample : SSTD02011
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTD02011

Manual Integrations
 APPROVED

TEJASKUMAR
 1/6/2015 1:36:34 PM

Quant Time: Jan 03 05:36:08 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM122914.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 31 02:57:11 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	12.67	216	416977	19.53	ng/ul	98
37) Hexachlorocyclopentadiene	12.64	237	262524	18.62	ng/ul	100
38) 2,4,6-Trichlorophenol	12.91	196	271673	19.95	ng/ul	98
39) 2,4,5-Trichlorophenol	12.97	196	286487	19.37	ng/ul	98
40) 1,1'-Biphenyl	13.31	154	1067154	19.23	ng/ul	99
41) 2-Chloronaphthalene	13.35	162	823553	19.37	ng/ul	98
42) 2-Nitroaniline	13.55	65	292960	21.26	ng/ul	93
44) Dimethylphthalate	13.93	163	1092400	19.32	ng/ul	99
45) 2,6-Dinitrotoluene	14.05	165	208021	20.57	ng/ul	87
47) Acenaphthylene	14.20	152	1371061	19.12	ng/ul	99
48) 3-Nitroaniline	14.38	138	225515	21.77	ng/ul	88
49) Acenaphthene	14.54	153	869429	19.02	ng/ul	98
50) 2,4-Dinitrophenol	14.57	184	91328	17.78	ng/ul#	86
52) 4-Nitrophenol	14.68	109	240151	19.69	ng/ul	91
53) Dibenzofuran	14.87	168	1253109	18.93	ng/ul	96
54) 2,4-Dinitrotoluene	14.84	165	309416	20.50	ng/ul	90
55) 2,3,4,6-Tetrachlorophenol	15.10	232	255809	20.06	ng/ul#	92
56) Diethylphthalate	15.29	149	1152930	19.40	ng/ul	97
58) Fluorene	15.52	166	1048472	19.09	ng/ul	100
59) 4-Chlorophenyl-phenylether	15.51	204	520548	19.21	ng/ul	97
60) 4-Nitroaniline	15.55	138	228360	19.51	ng/ul	93
63) 4,6-Dinitro-2-methylphenol	15.59	198	155645	18.98	ng/ul#	87
64) N-Nitrosodiphenylamine	15.73	169	907473	19.36	ng/ul	99
65) 4-Bromophenyl-phenylether	16.41	248	320438	19.46	ng/ul	98
66) Hexachlorobenzene	16.52	284	375446	19.78	ng/ul#	92
67) Atrazine	16.68	200	356541	19.29	ng/ul	99
68) Pentachlorophenol	16.86	266	210233m	18.20	ng/ul	
69) Phenanthrene	17.26	178	1689233m	19.32	ng/ul	
71) Anthracene	17.35	178	1727927	19.21	ng/ul	99
72) Carbazole	17.61	167	1542375	19.04	ng/ul	98
73) Di-n-butylphthalate	18.19	149	1905199	19.71	ng/ul	100
74) Fluoranthene	19.27	202	1970481	19.65	ng/ul	99
77) Pyrene	19.64	202	2021763	20.72	ng/ul	99
78) Butylbenzylphthalate	20.54	149	855211	21.57	ng/ul	98
79) 3,3'-Dichlorobenzidine	21.32	252	584772	19.76	ng/ul	99
80) Benzo(a)anthracene	21.39	228	1797236	19.23	ng/ul	98
81) Bis(2-ethylhexyl)phthalate	21.31	149	1212511	21.01	ng/ul#	98
82) Chrysene	21.43	228	1665908	19.34	ng/ul	99
84) Di-n-octyl phthalate	22.21	149	1914961	21.02	ng/ul	100
85) Benzo(b)fluoranthene	23.00	252	1593572	18.85	ng/ul	99
86) Benzo(k)fluoranthene	23.04	252	1528853	21.18	ng/ul	99
88) Benzo(a)pyrene	23.59	252	1441187	19.41	ng/ul	98
89) Indeno(1,2,3-cd)pyrene	26.03	276	1486273	19.18	ng/ul	96
90) Dibenzo(a,h)anthracene	26.04	278	1266337	19.41	ng/ul	97
91) Benzo(g,h,i)perylene	26.75	276	1239703	19.47	ng/ul	98

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

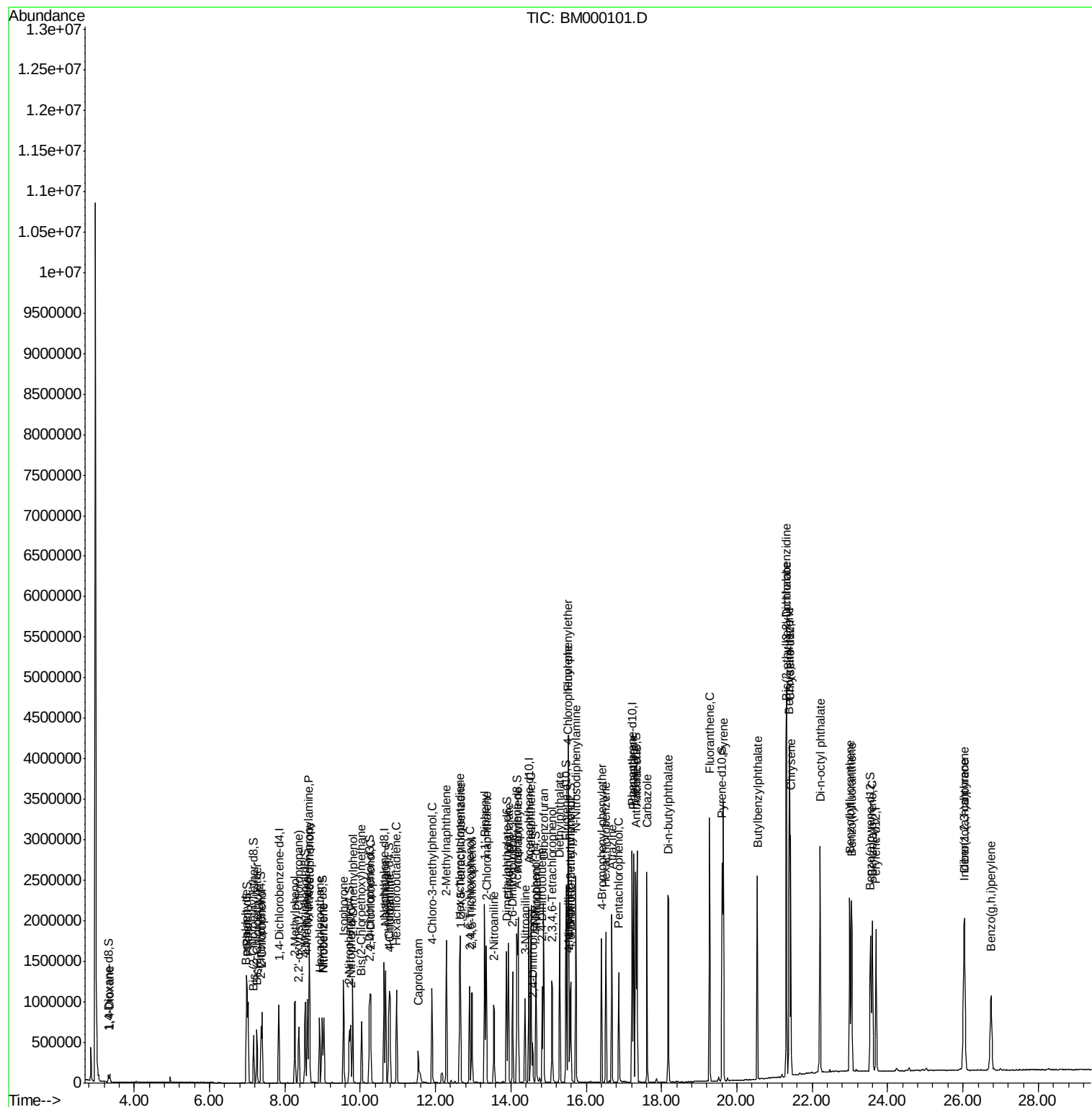
Data Path : Z:\HPCHEM1\BNA_M\Data\BM010215\
Data File : BM000101.D
Acq On : 02 Jan 2015 09:40
Operator : TP/IZ
Sample : SSTD02011
Misc :
ALS Vial : 2 Sample Multiplier: 1

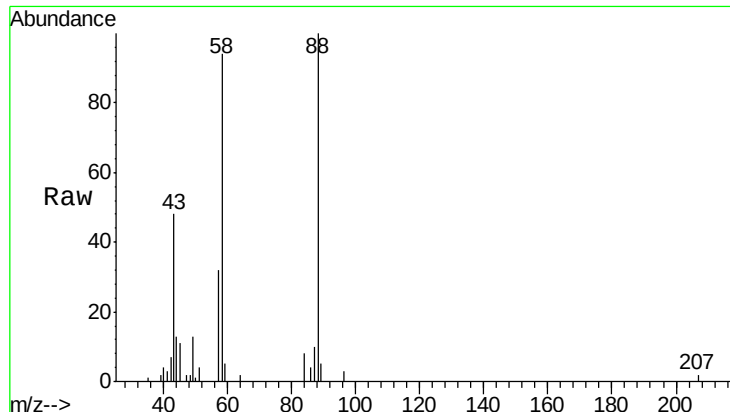
Instrument :
BNA_M
ClientSampleId :
SSTD02011

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM

Quant Time: Jan 03 05:36:08 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM122914.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 31 02:57:11 2014
Response via : Initial Calibration





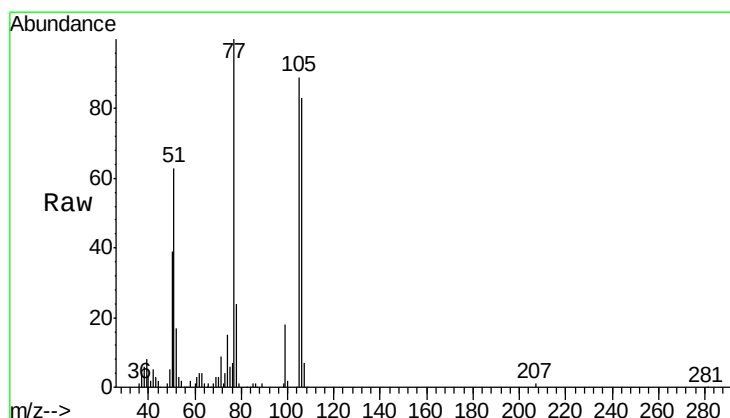
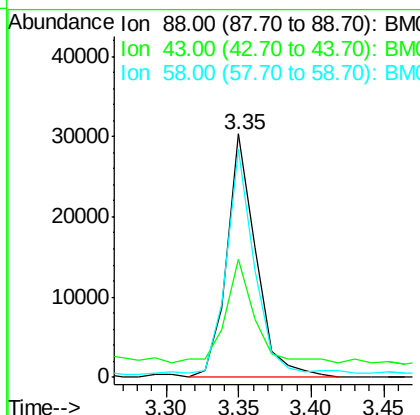
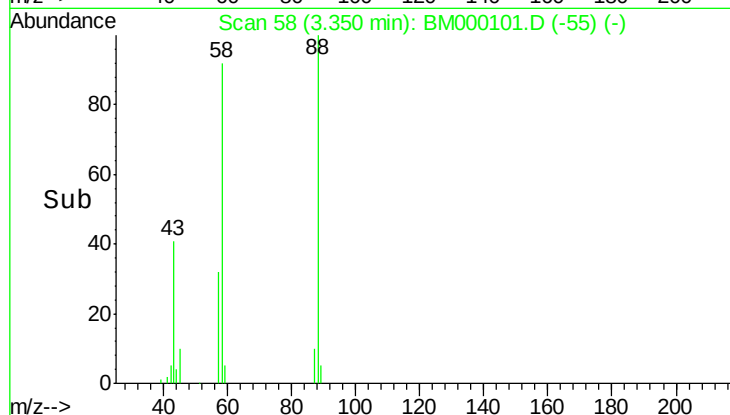
#2
 1,4-Dioxane
 Concen: 7.18 ng/uL
 RT: 3.35 min Scan# 58
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:	88	Resp:	42513
Ion	Ratio	Lower	Upper
88	100		
43	41.3	34.9	52.3
58	86.7	67.3	100.9

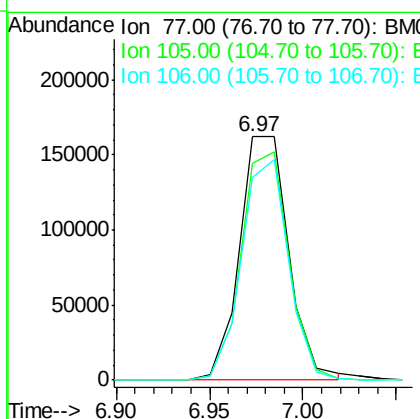
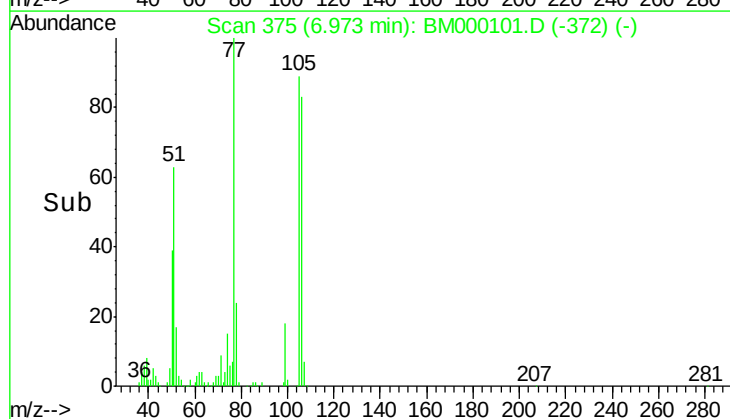
Manual Integrations
 APPROVED

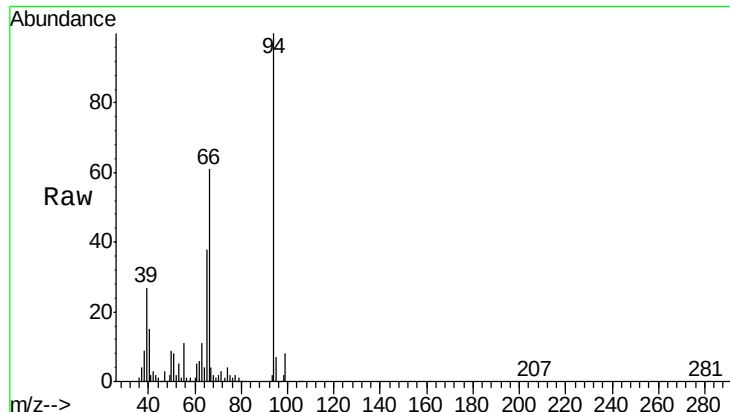
TEJASKUMAR
 1/6/2015 1:36:34 PM



#4
 Benzaldehyde
 Concen: 22.24 ng/uL
 RT: 6.97 min Scan# 375
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:	77	Resp:	297355
Ion	Ratio	Lower	Upper
77	100		
105	88.8	73.5	110.3
106	83.3	67.9	101.9





#6

Phenol

Concen: 19.19 ng/ul

RT: 7.02 min Scan# 379

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion: 94 Resp: 428698

Ion Ratio Lower Upper

94 100

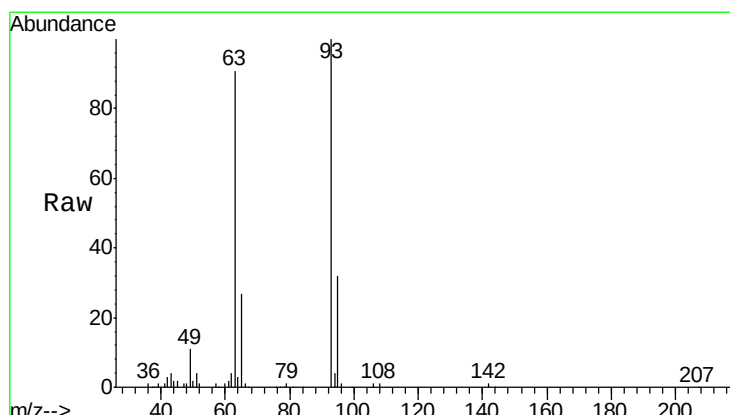
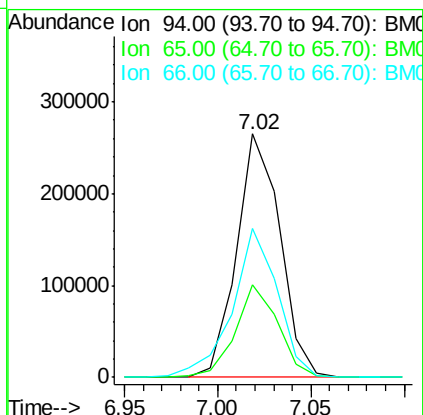
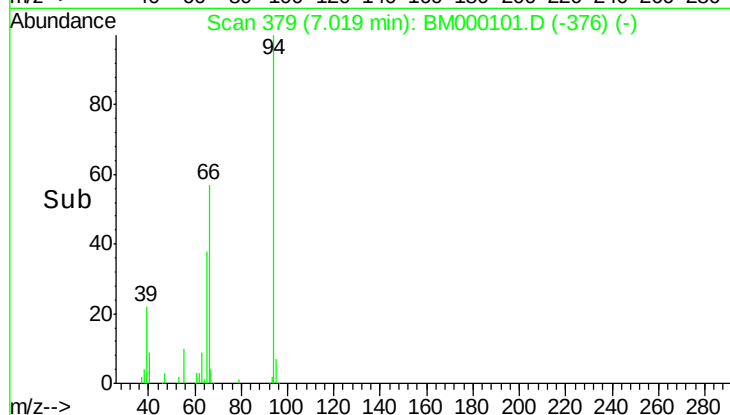
65 38.3 27.4 41.0

66 61.0 42.5 63.7

Manual Integrations

APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#8

Bis(2-Chloroethyl)ether

Concen: 18.92 ng/ul

RT: 7.26 min Scan# 400

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

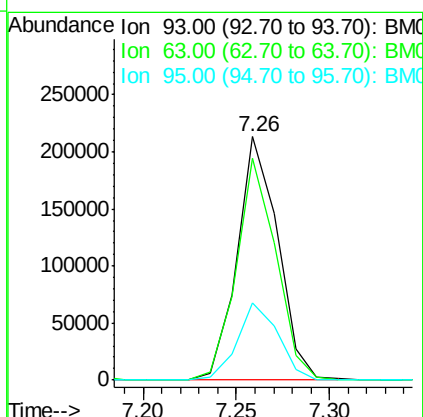
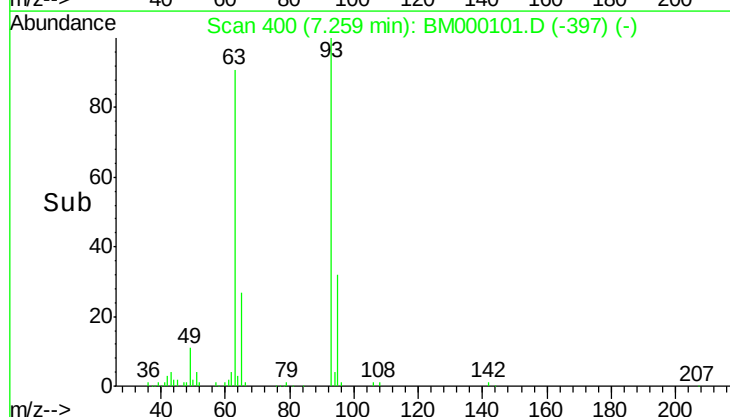
Tgt Ion: 93 Resp: 323224

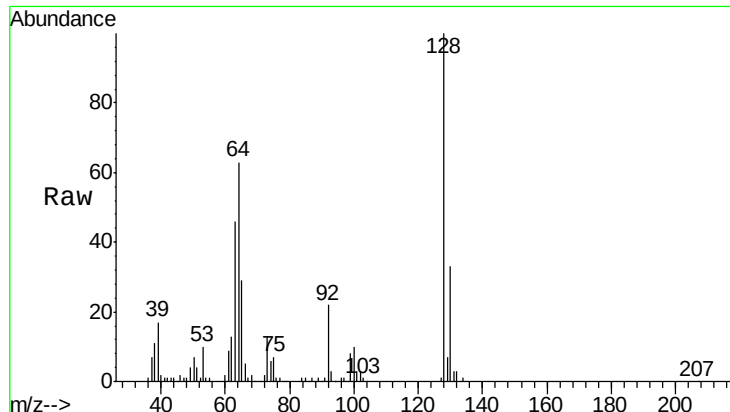
Ion Ratio Lower Upper

93 100

63 91.3 68.9 103.3

95 31.9 24.6 37.0





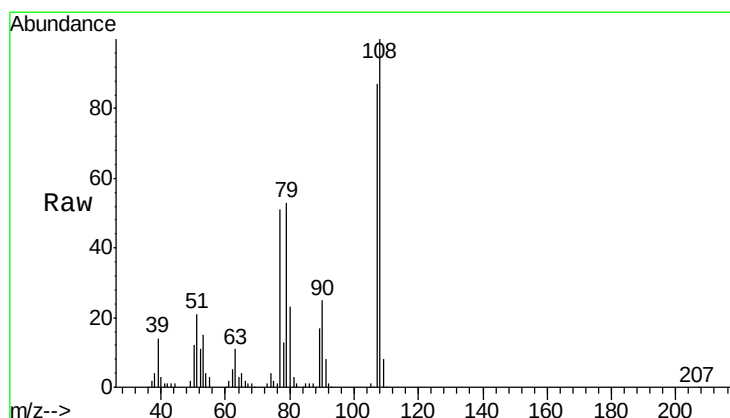
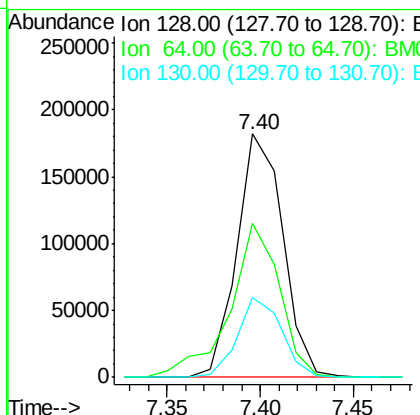
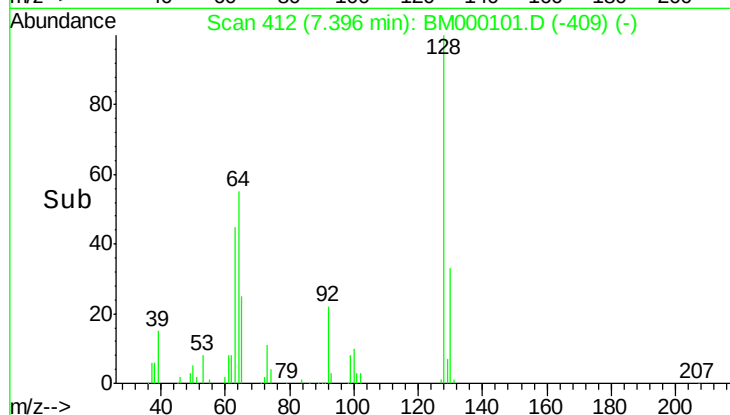
#10
 2-Chlorophenol
 Concen: 19.44 ng/ul
 RT: 7.40 min Scan# 412
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:	128	Resp:	310889
Ion Ratio	Lower	Upper	
128	100		
64	63.2	47.2	70.8
130	32.6	25.2	37.8

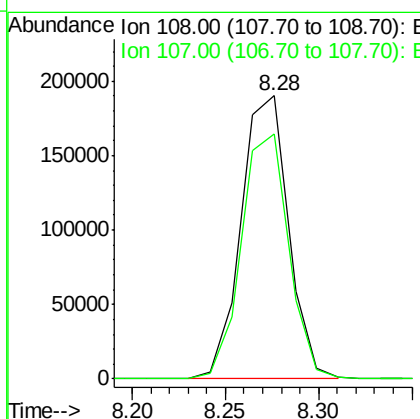
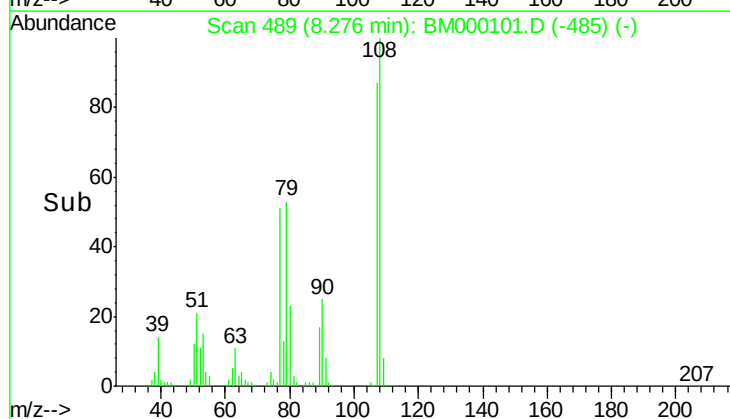
Manual Integrations
 APPROVED

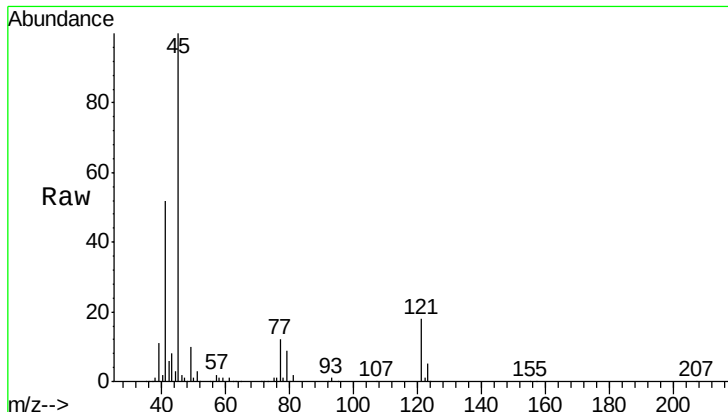
TEJASKUMAR
 1/6/2015 1:36:34 PM



#11
 2-Methylphenol
 Concen: 19.50 ng/ul
 RT: 8.28 min Scan# 489
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:	108	Resp:	336165
Ion Ratio	Lower	Upper	
108	100		
107	86.8	70.7	106.1





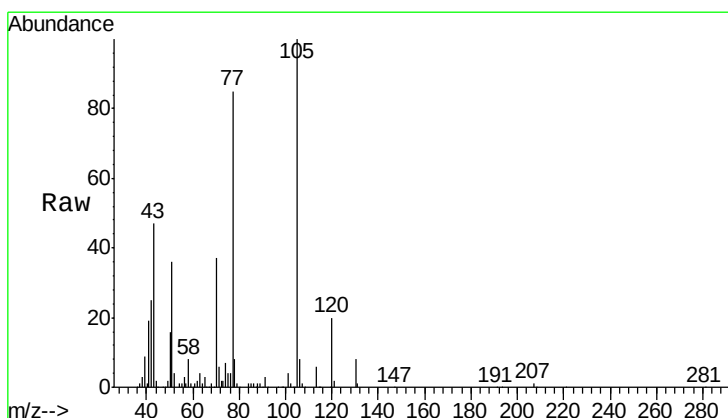
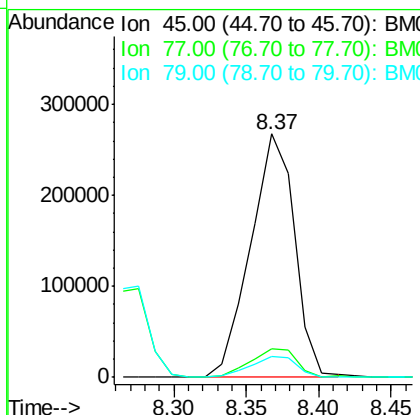
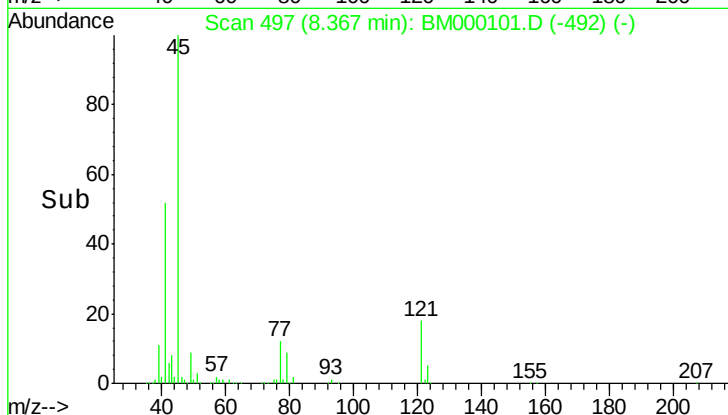
#12
 2,2'-oxybis(1-chloropropane)
 Concen: 20.46 ng/ul
 RT: 8.37 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:	45	Resp:	562976
Ion	Ratio	Lower	Upper
45	100		
77	11.9	9.9	14.9
79	8.8	8.3	12.5

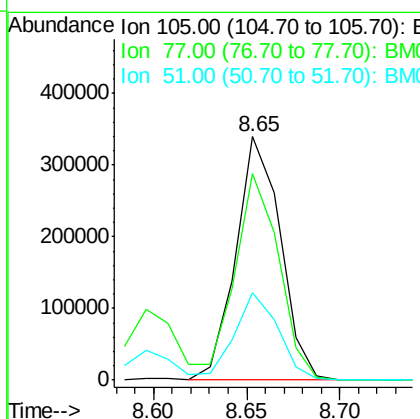
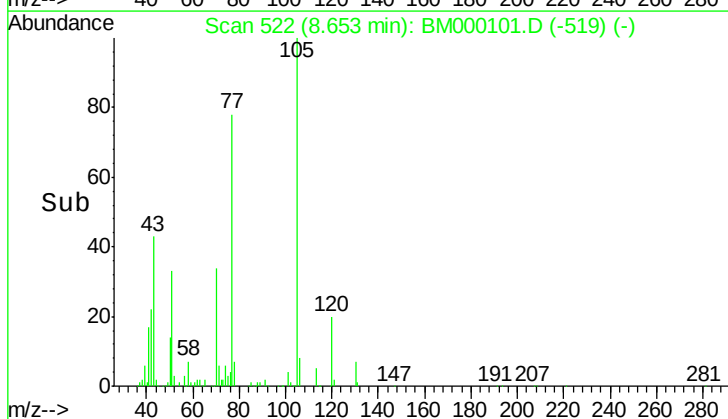
Manual Integrations
 APPROVED

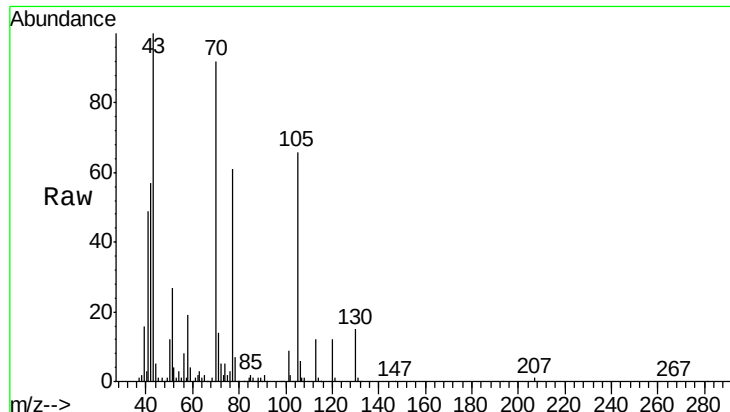
TEJASKUMAR
 1/6/2015 1:36:34 PM



#14
 Acetophenone
 Concen: 19.41 ng/ul
 RT: 8.65 min Scan# 522
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:	105	Resp:	561658
Ion	Ratio	Lower	Upper
105	100		
77	84.8	66.3	99.5
51	35.8	26.5	39.7





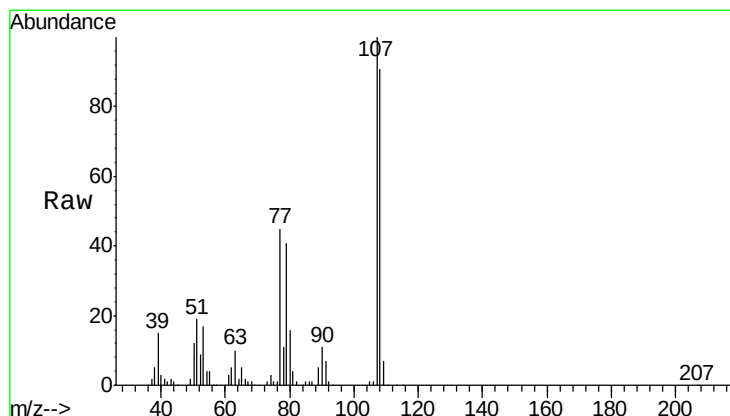
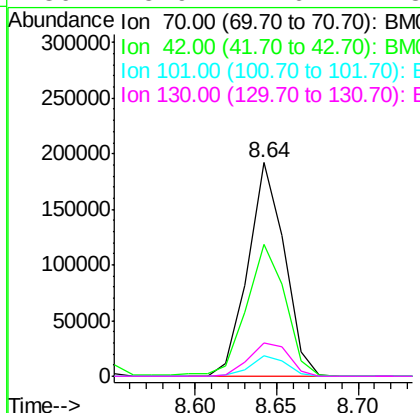
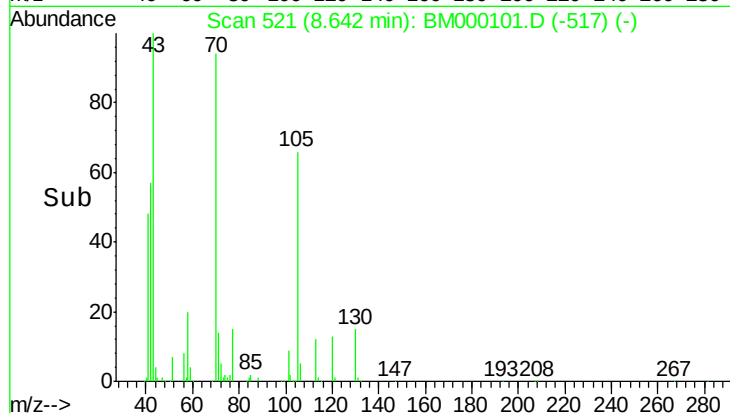
#15
N-Nitroso-di-n-propylamine
Concen: 19.76 ng/ul
RT: 8.64 min Scan# 521
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:	70	Resp:	299382
Ion Ratio	Lower	Upper	
70	100		
42	61.9	46.4	69.6
101	9.5	7.8	11.8
130	15.9	14.6	21.8

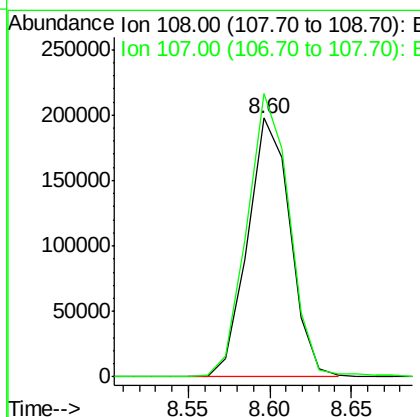
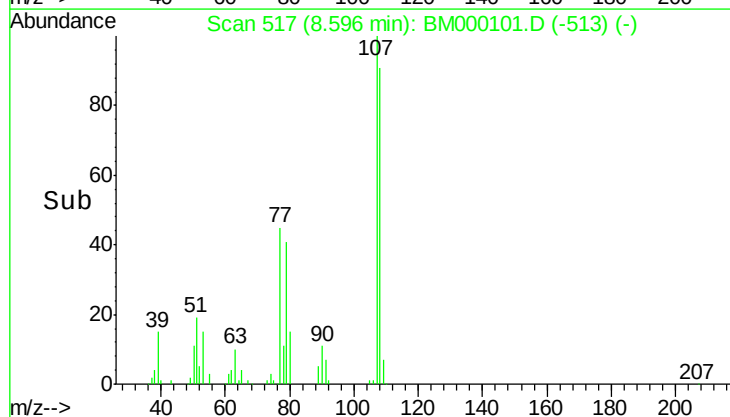
Manual Integrations
APPROVED

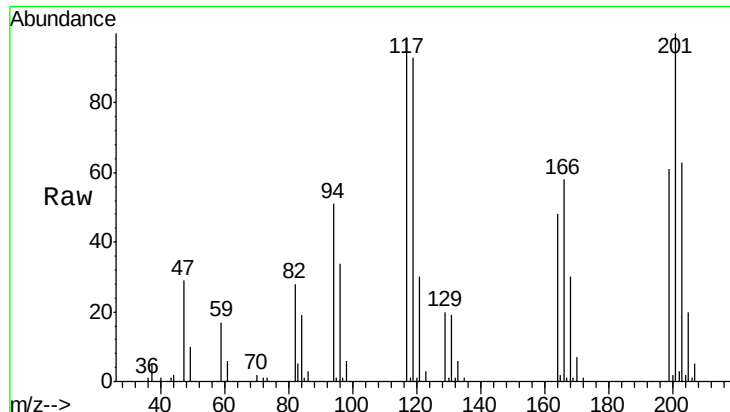
TEJASKUMAR
1/6/2015 1:36:34 PM



#16
4-Methylphenol
Concen: 19.17 ng/ul
RT: 8.60 min Scan# 517
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:	108	Resp:	357391
Ion Ratio	Lower	Upper	
108	100		
107	109.5	84.0	126.0





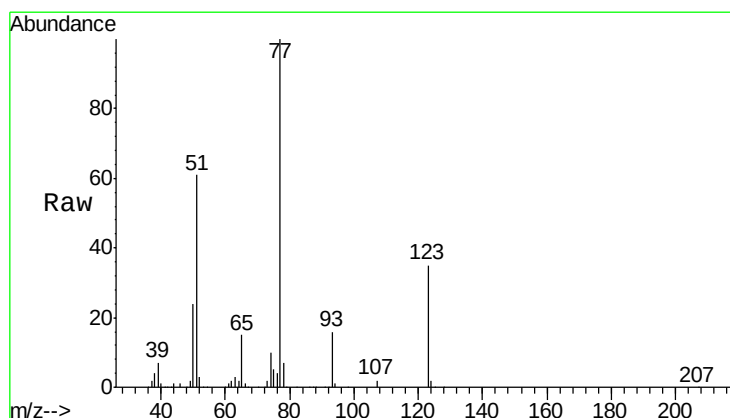
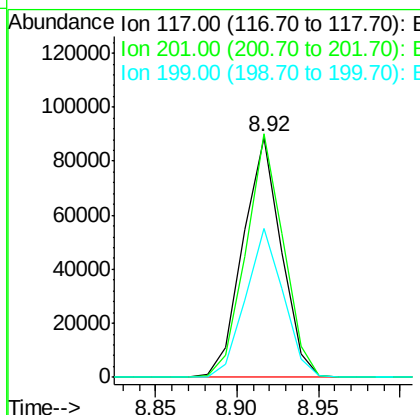
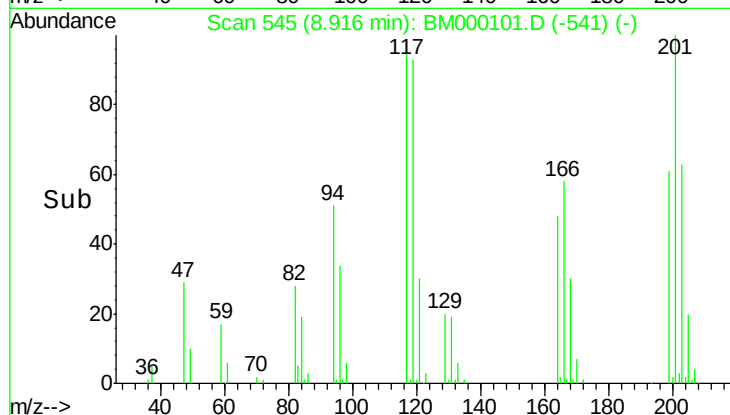
#17
Hexachloroethane
Concen: 19.80 ng/ul
RT: 8.92 min Scan# 545
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:	117	Resp:	144660
Ion Ratio	Lower	Upper	
117	100		
201	101.4	85.2	127.8
199	61.9	55.1	82.7

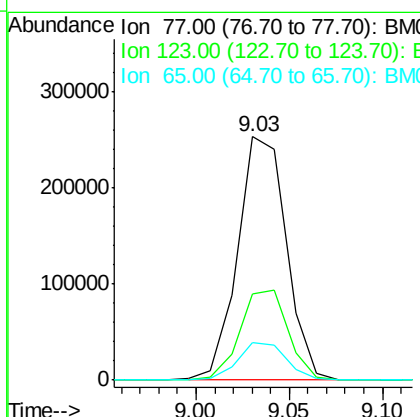
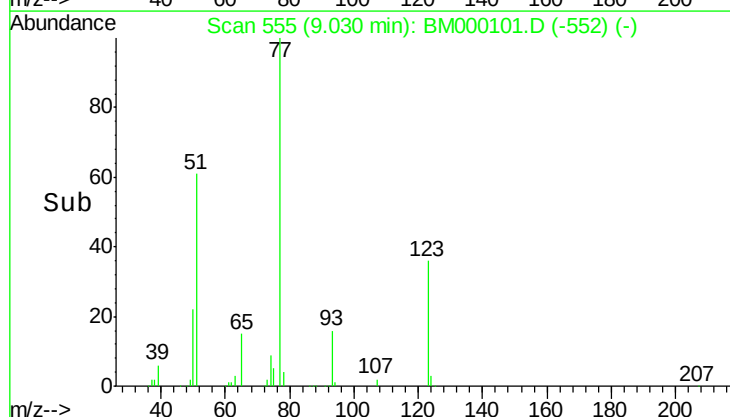
Manual Integrations
APPROVED

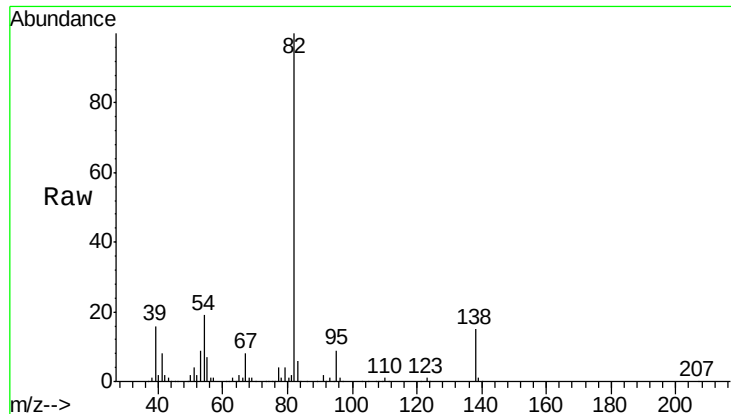
TEJASKUMAR
1/6/2015 1:36:34 PM



#20
Nitrobenzene
Concen: 20.22 ng/ul
RT: 9.03 min Scan# 555
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:	77	Resp:	454062
Ion Ratio	Lower	Upper	
77	100		
123	35.3	29.2	43.8
65	15.2	12.4	18.6





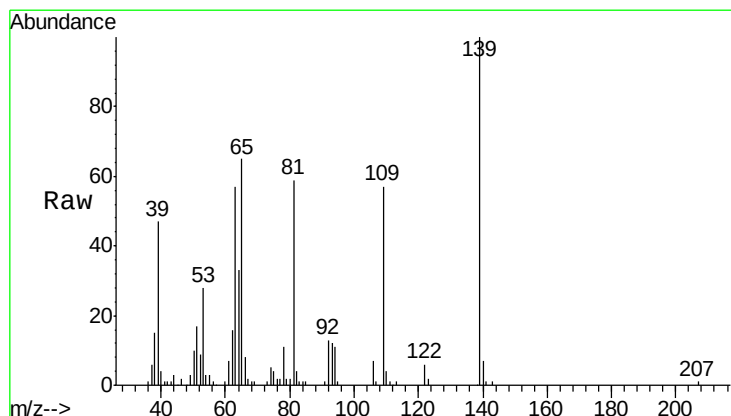
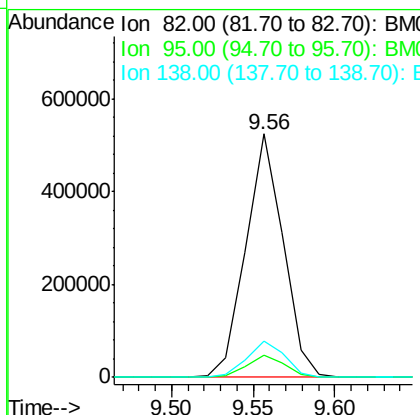
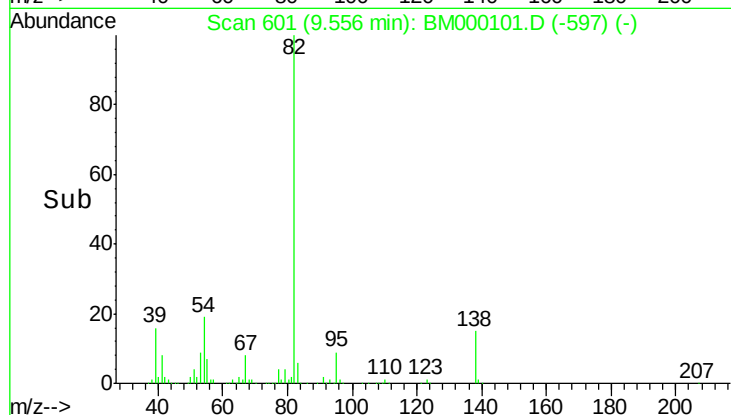
#21
Isophorone
Concen: 19.32 ng/ul
RT: 9.56 min Scan# 601
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	836112		
95	9.2	6.9	10.3	
138	14.9	12.1	18.1	

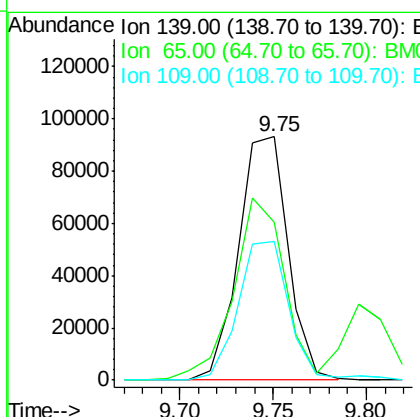
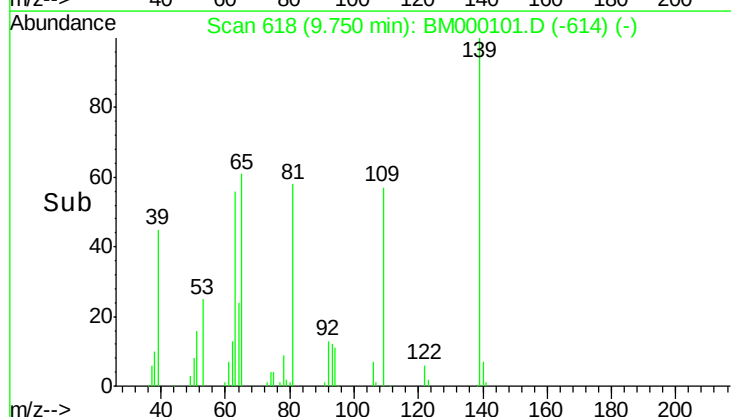
Manual Integrations
APPROVED

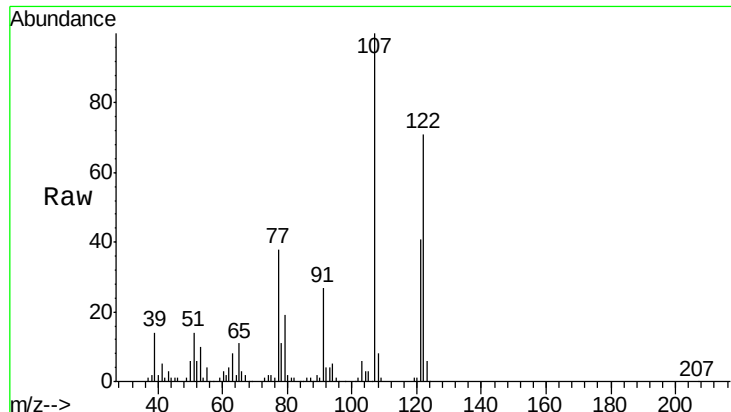
TEJASKUMAR
1/6/2015 1:36:34 PM



#23
2-Nitrophenol
Concen: 20.00 ng/ul
RT: 9.75 min Scan# 618
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	169791		
65	64.7	56.3	84.5	
109	56.8	37.1	55.7	





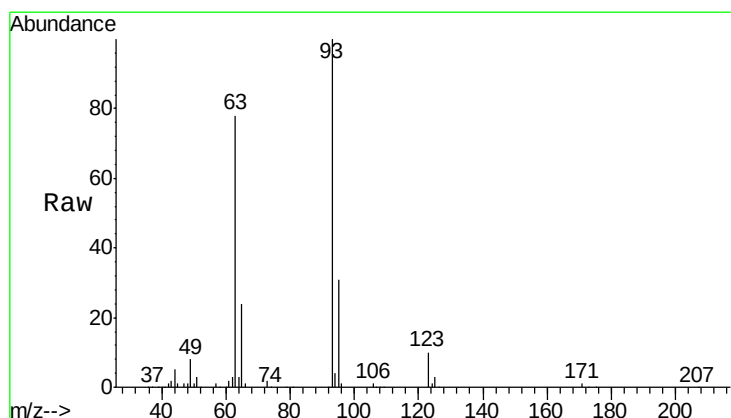
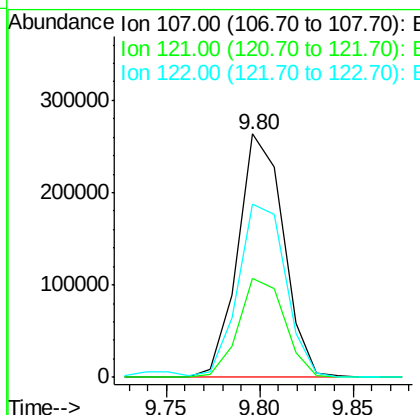
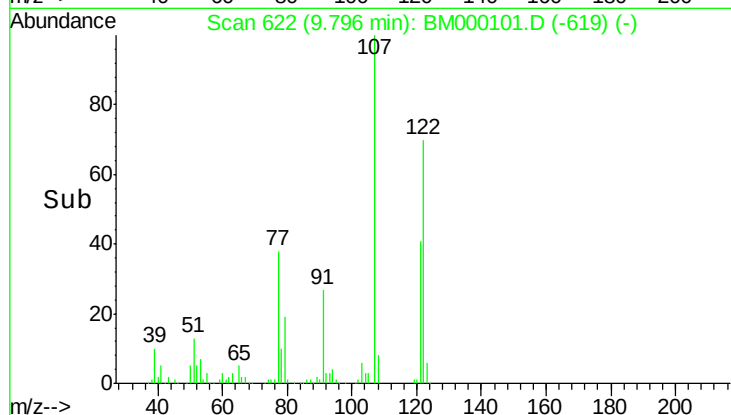
#24
 2,4-Dimethylphenol
 Concen: 19.42 ng/ul
 RT: 9.80 min Scan# 622
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion	Ratio	Lower	Upper
107	100		
121	40.8	33.0	49.6
122	71.1	59.3	88.9

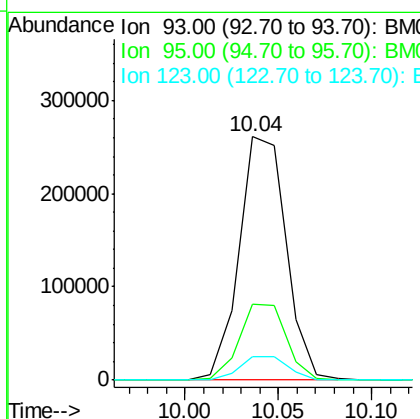
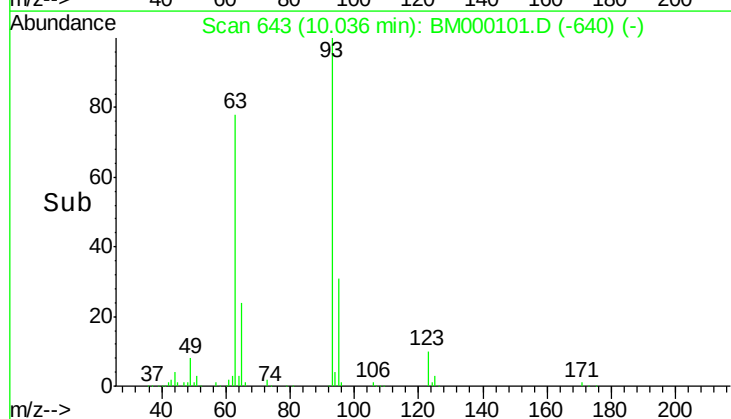
Manual Integrations
 APPROVED

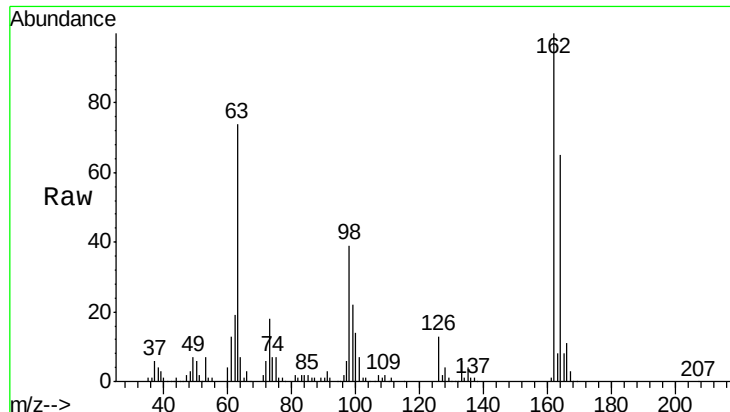
TEJASKUMAR
 1/6/2015 1:36:34 PM



#25
 Bis(2-Chloroethoxy)methane
 Concen: 18.96 ng/ul
 RT: 10.04 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Lower	Upper
93	100		
95	31.4	26.1	39.1
123	9.7	7.4	11.2





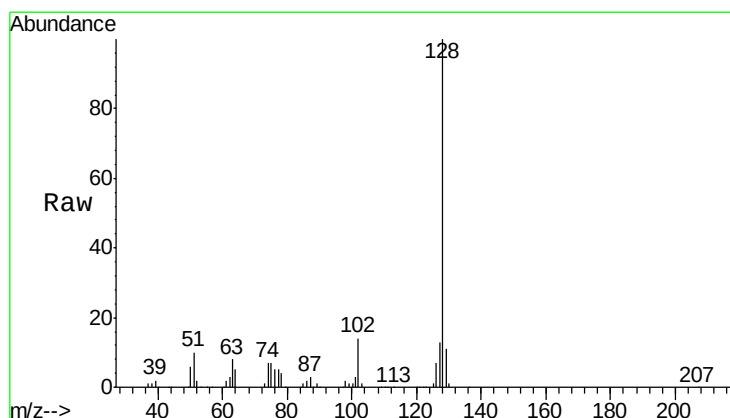
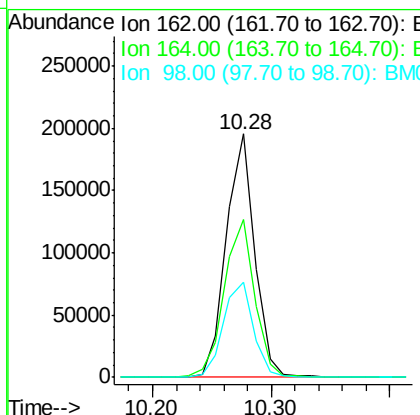
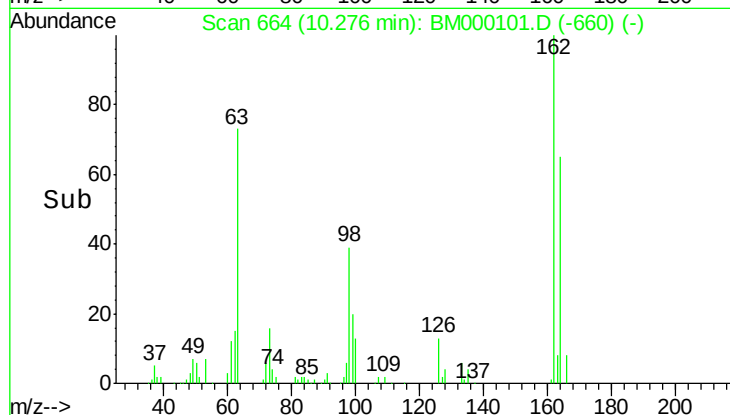
#27
 2,4-Dichlorophenol
 Concen: 19.26 ng/ul
 RT: 10.28 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.0	50.2	75.4
98	39.1	31.4	47.2

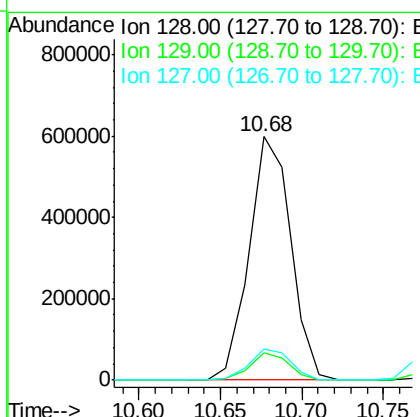
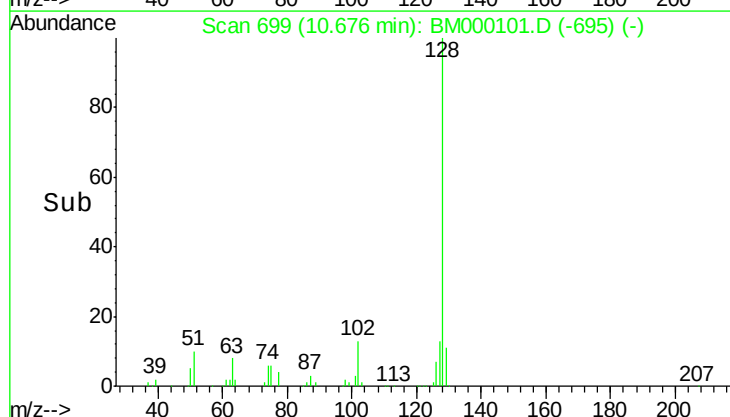
Manual Integrations
 APPROVED

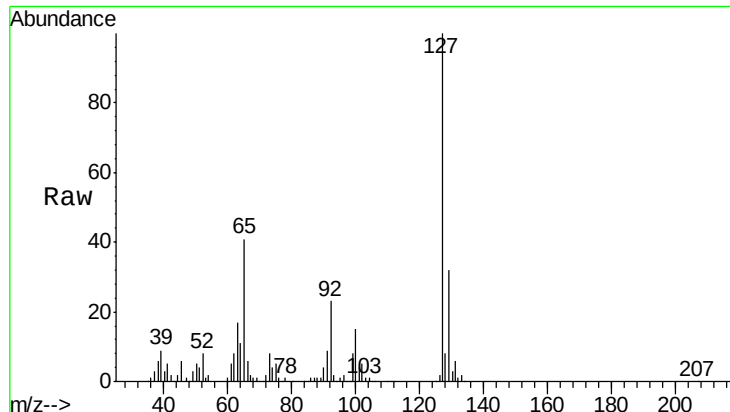
TEJASKUMAR
 1/6/2015 1:36:34 PM



#28
 Naphthalene
 Concen: 19.13 ng/ul
 RT: 10.68 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.6	13.0
127	12.7	10.3	15.5





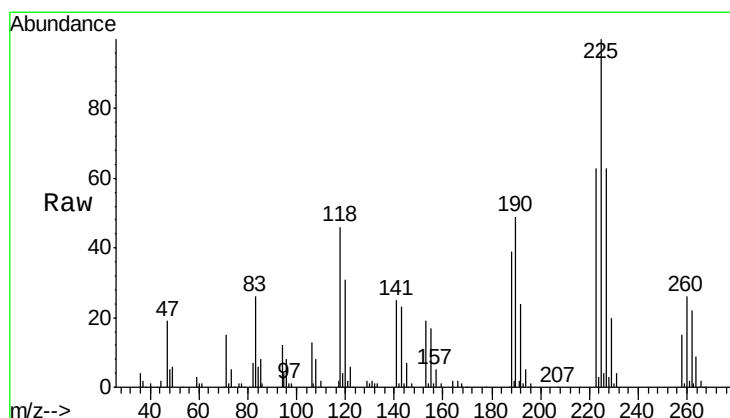
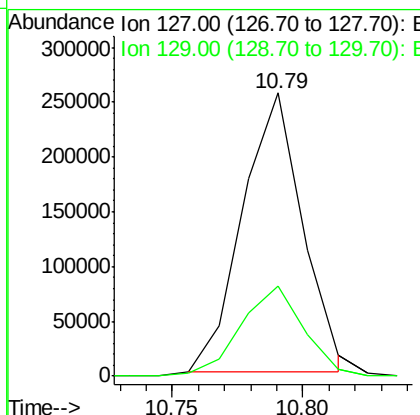
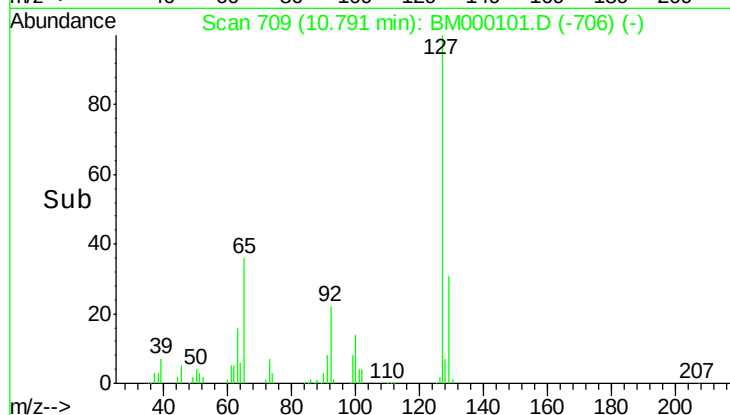
#30
 4-Chloroaniline
 Concen: 20.67 ng/ul
 RT: 10.79 min Scan# 709
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SSTD02011

Tgt Ion:127 Resp: 412003
 Ion Ratio Lower Upper
 127 100
 129 31.6 26.5 39.7

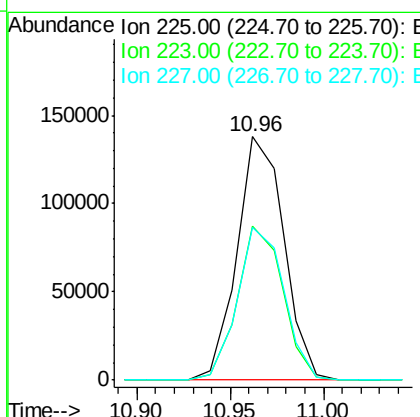
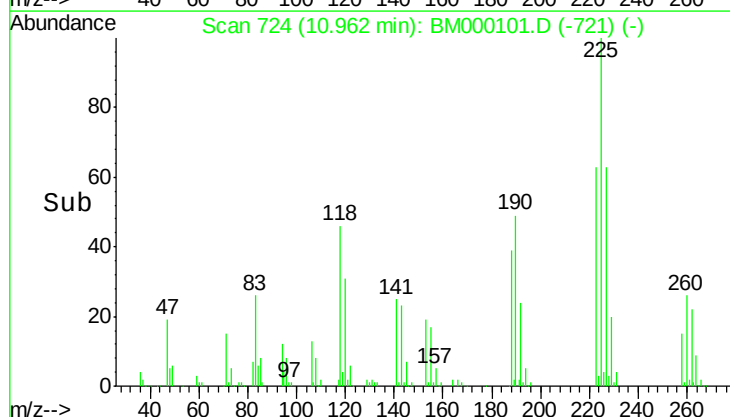
Manual Integrations
 APPROVED

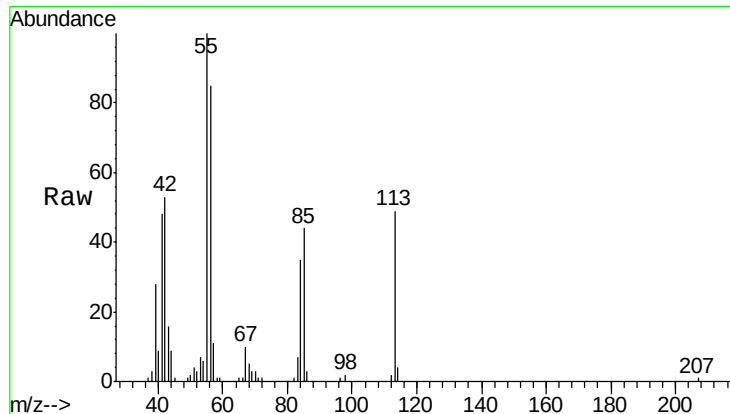
TEJASKUMAR
 1/6/2015 1:36:34 PM



#31
 Hexachlorobutadiene
 Concen: 20.02 ng/ul
 RT: 10.96 min Scan# 724
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:225 Resp: 240576
 Ion Ratio Lower Upper
 225 100
 223 63.4 54.4 81.6
 227 62.5 51.8 77.8





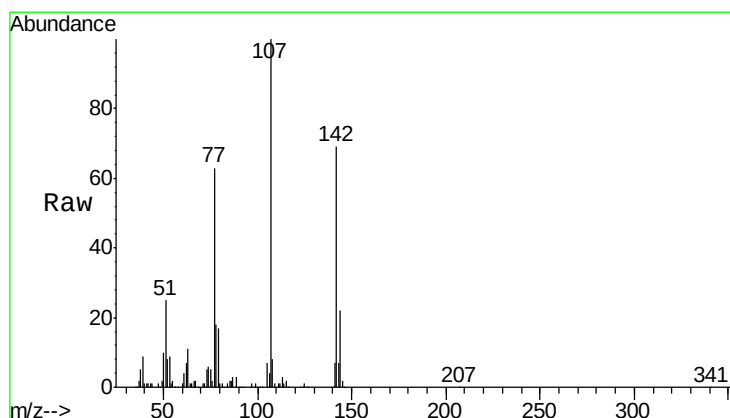
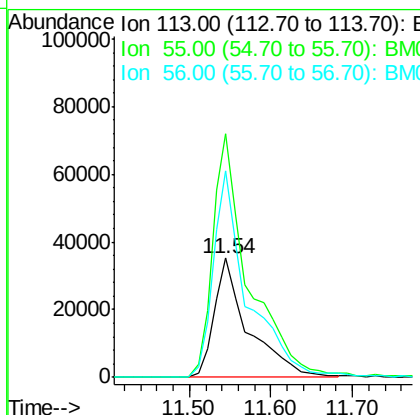
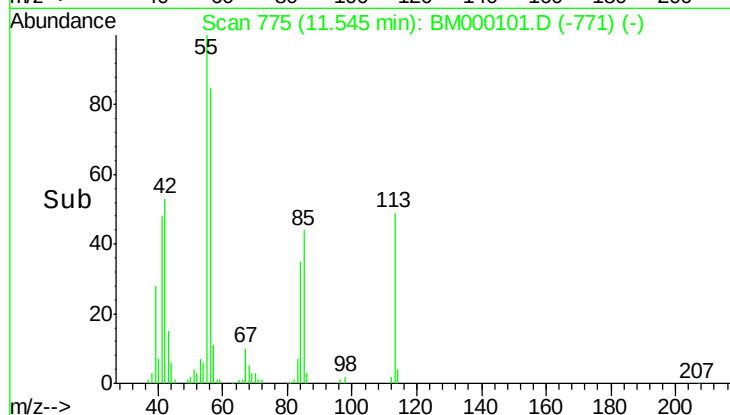
#32
 Caprolactam
 Concen: 18.26 ng/ul
 RT: 11.54 min Scan# 775
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SSTD02011

Tgt Ion:113 Resp: 103082
 Ion Ratio Lower Upper
 113 100
 55 204.0 156.6 234.8
 56 173.1 126.3 189.5

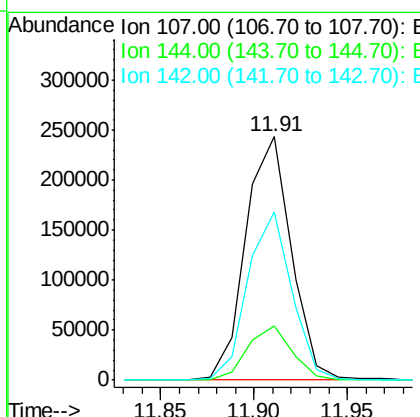
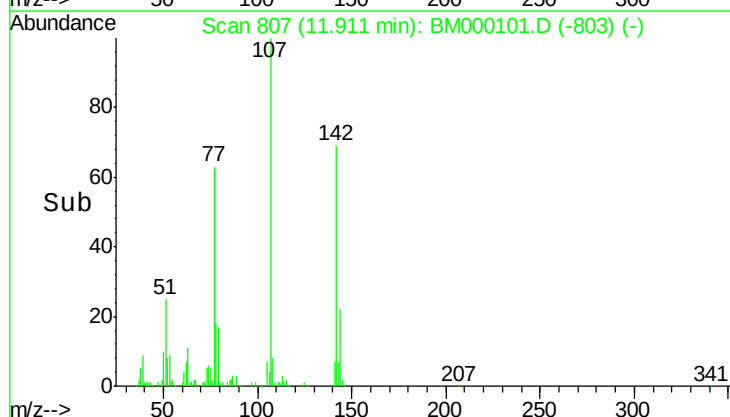
Manual Integrations
 APPROVED

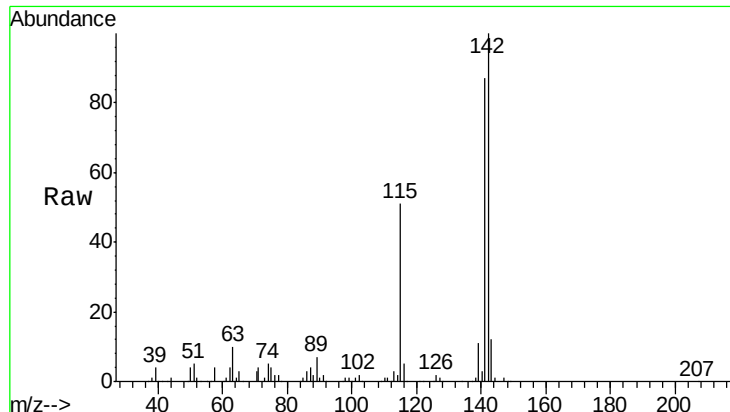
TEJASKUMAR
 1/6/2015 1:36:34 PM



#33
 4-Chloro-3-methylphenol
 Concen: 19.85 ng/ul
 RT: 11.91 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:107 Resp: 412956
 Ion Ratio Lower Upper
 107 100
 144 22.1 16.6 24.8
 142 69.0 54.6 82.0





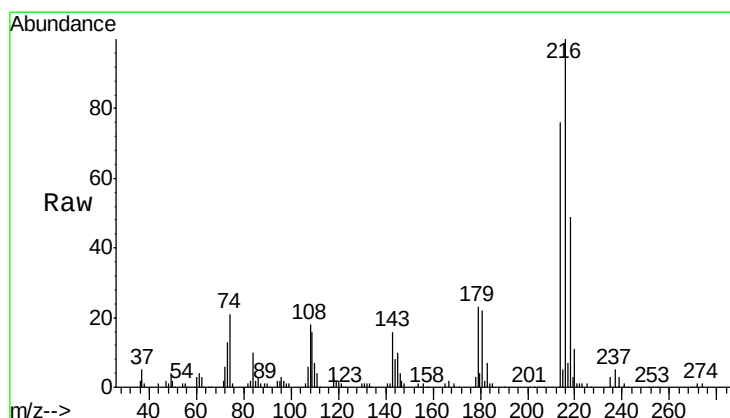
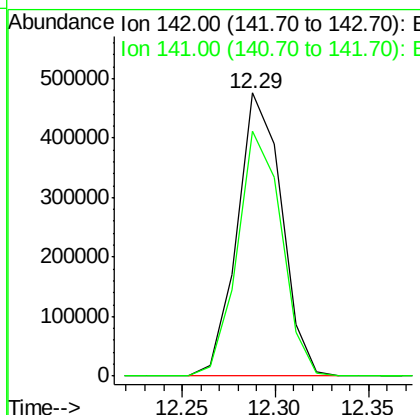
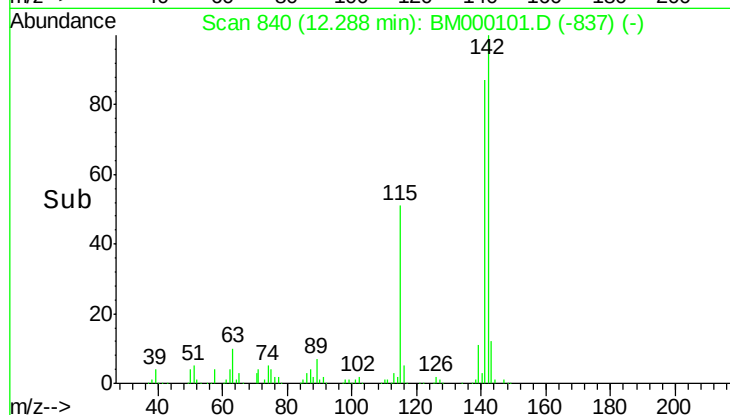
#34
 2-Methylnaphthalene
 Concen: 19.05 ng/ul
 RT: 12.29 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:142 Resp: 784394
 Ion Ratio Lower Upper
 142 100
 141 86.7 69.3 103.9

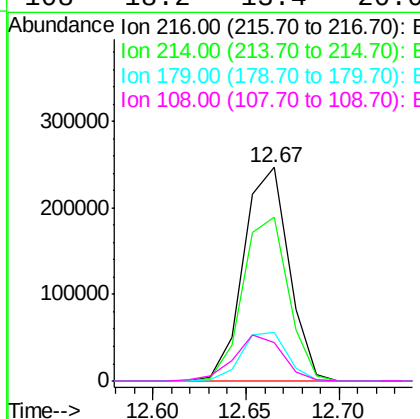
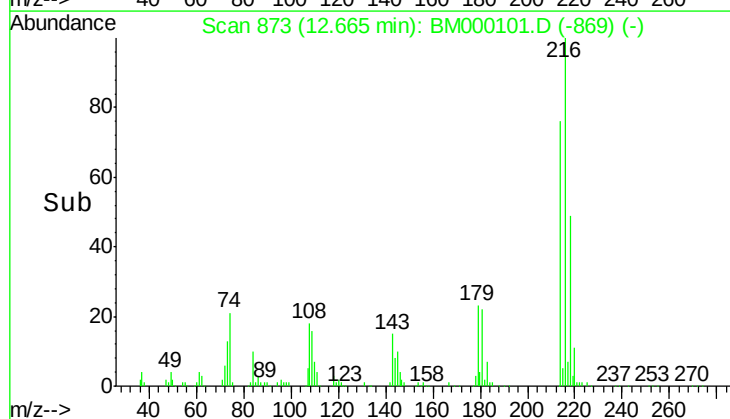
Manual Integrations
 APPROVED

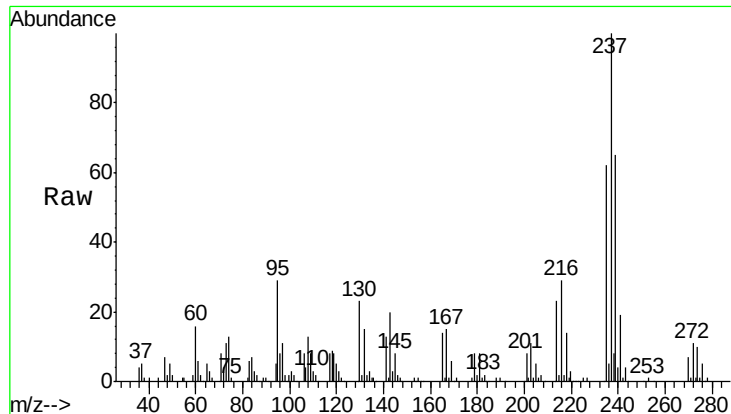
TEJASKUMAR
 1/6/2015 1:36:34 PM



#36
 1,2,4,5-Tetrachlorobenzene
 Concen: 19.53 ng/ul
 RT: 12.67 min Scan# 873
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:216 Resp: 416977
 Ion Ratio Lower Upper
 216 100
 214 76.4 62.6 94.0
 179 22.8 17.4 26.2
 108 18.2 13.4 20.0





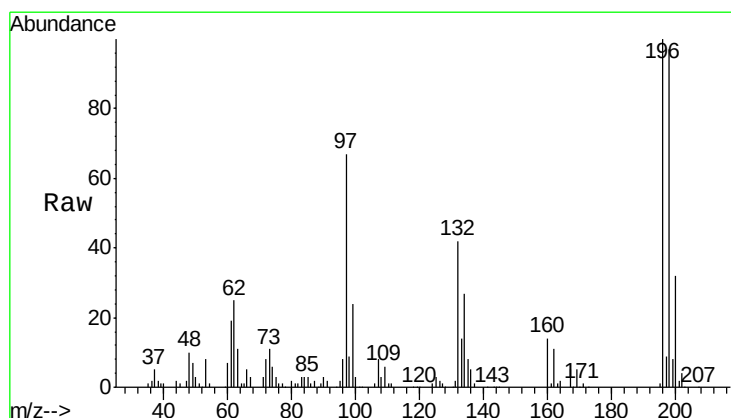
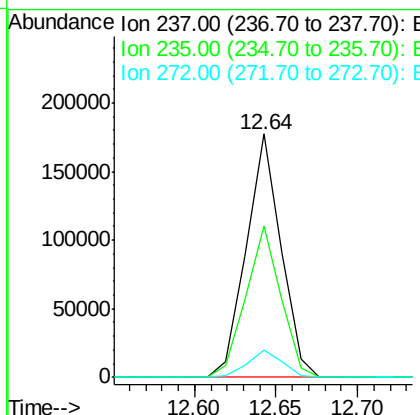
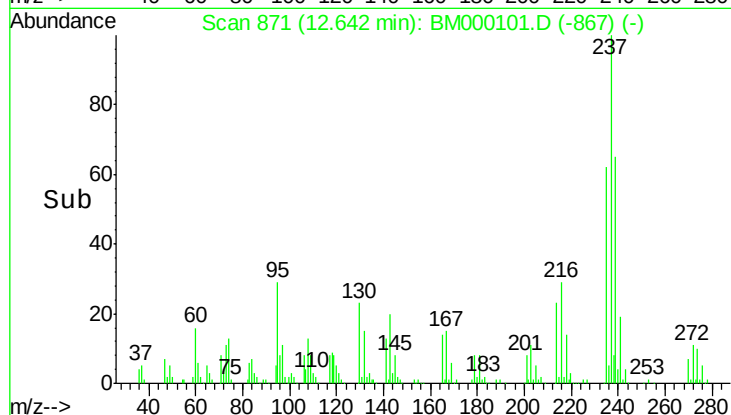
#37
 Hexachlorocyclopentadiene
 Concen: 18.62 ng/ul
 RT: 12.64 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SSTD02011

Tgt Ion	Ratio	Resp	Lower	Upper
237	100	262524		
235	62.1		50.0	75.0
272	11.1		8.9	13.3

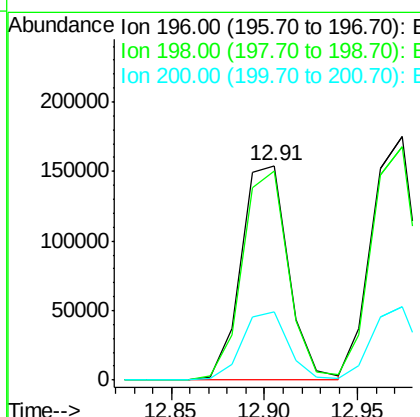
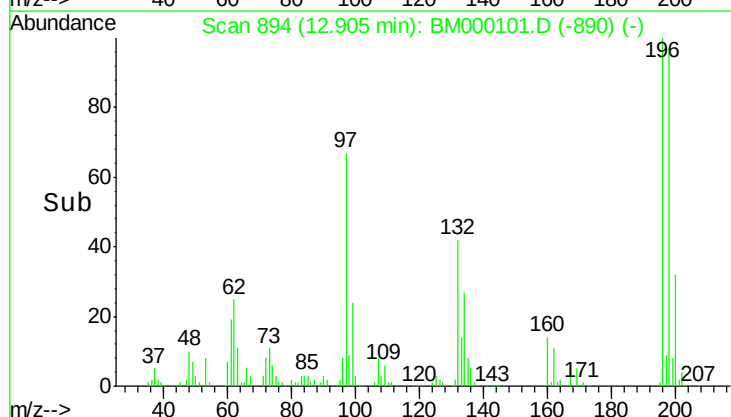
Manual Integrations
 APPROVED

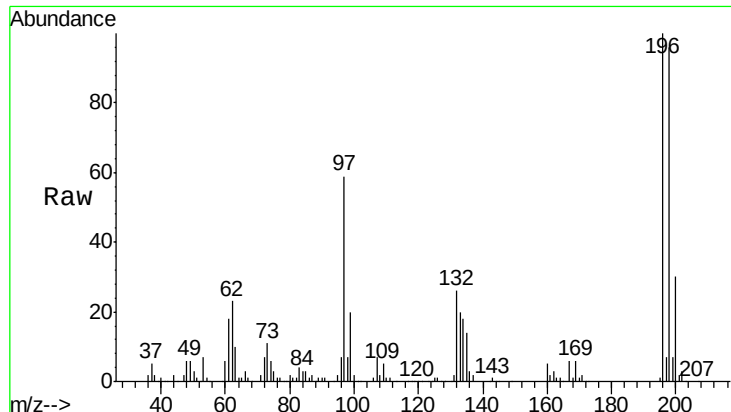
TEJASKUMAR
 1/6/2015 1:36:34 PM



#38
 2,4,6-Trichlorophenol
 Concen: 19.95 ng/ul
 RT: 12.91 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	271673		
198	97.3		76.6	114.8
200	31.5		24.5	36.7





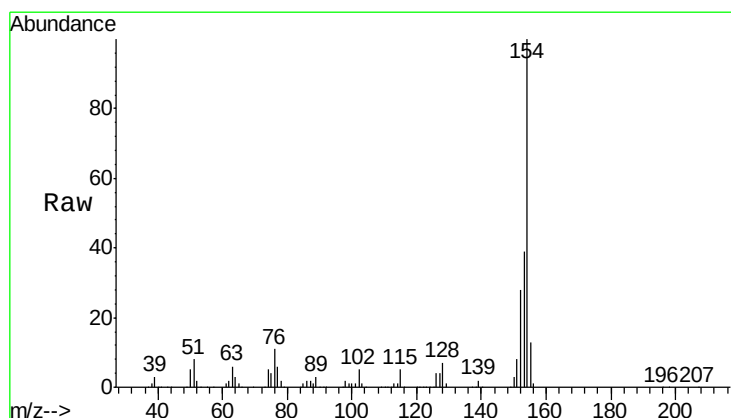
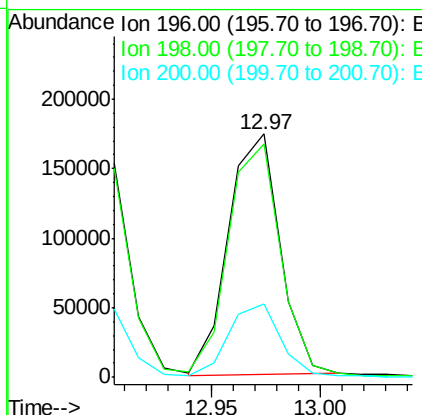
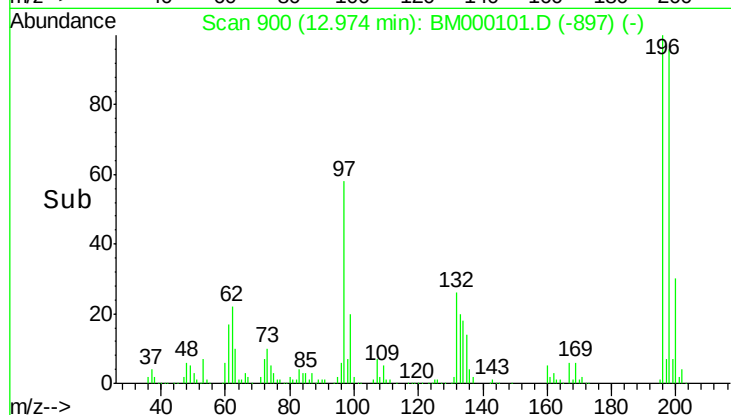
#39
 2,4,5-Trichlorophenol
 Concen: 19.37 ng/ul
 RT: 12.97 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:	196	Resp:	286487
Ion Ratio	Lower	Upper	
196	100		
198	96.0	75.4	113.2
200	30.0	25.0	37.4

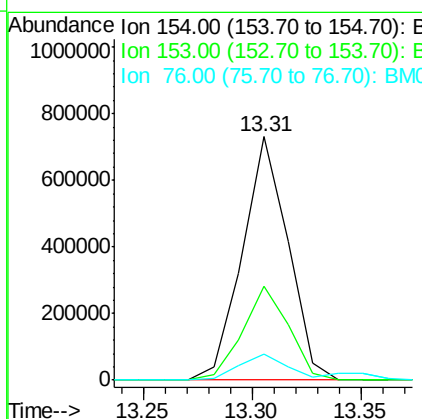
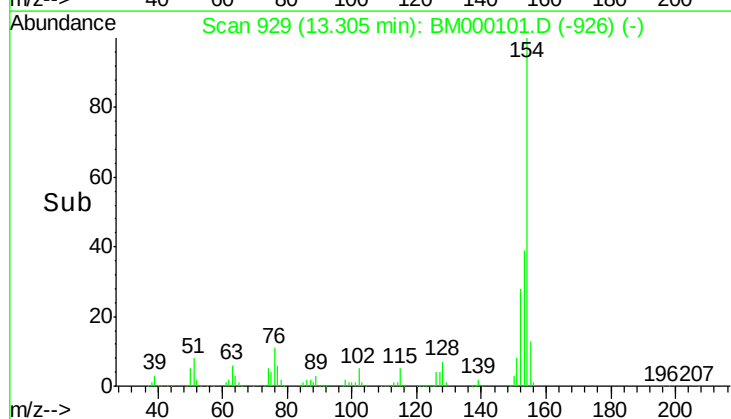
Manual Integrations
 APPROVED

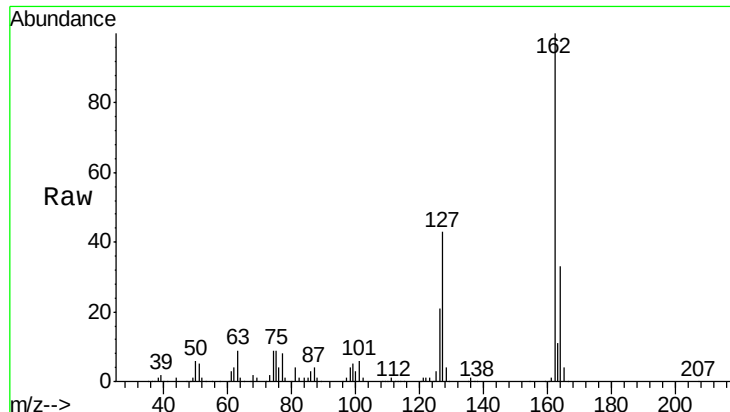
TEJASKUMAR
 1/6/2015 1:36:34 PM



#40
 1,1'-Biphenyl
 Concen: 19.23 ng/ul
 RT: 13.31 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:	154	Resp:	1067154
Ion Ratio	Lower	Upper	
154	100		
153	38.7	30.5	45.7
76	10.6	8.9	13.3





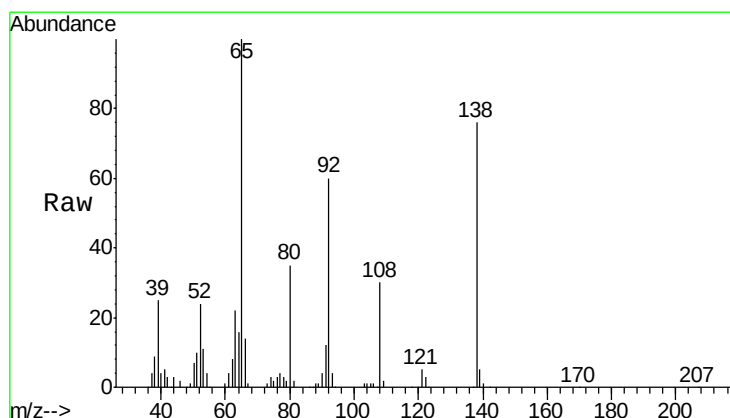
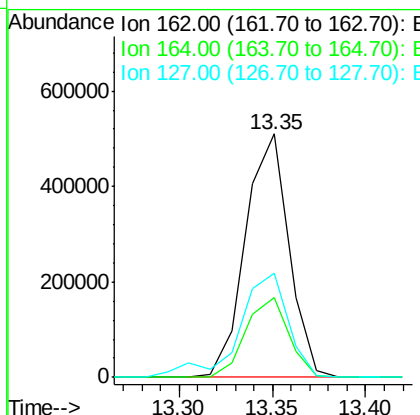
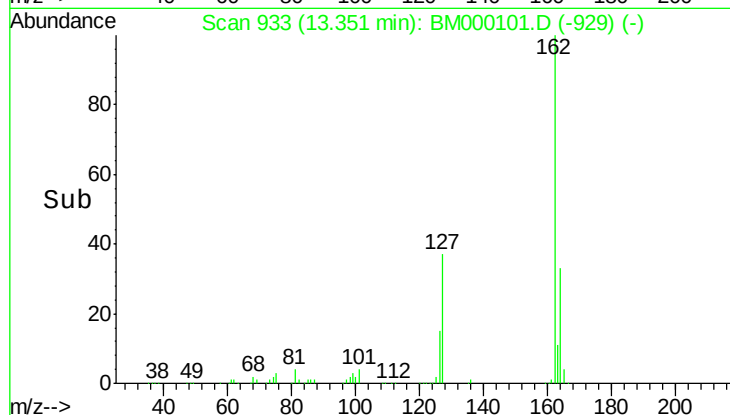
#41
 2-Chloronaphthalene
 Concen: 19.37 ng/ul
 RT: 13.35 min Scan# 933
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion: 162 Resp: 823553
 Ion Ratio Lower Upper
 162 100
 164 32.8 25.8 38.6
 127 42.9 35.9 53.9

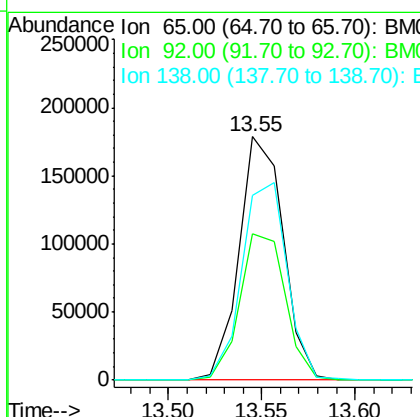
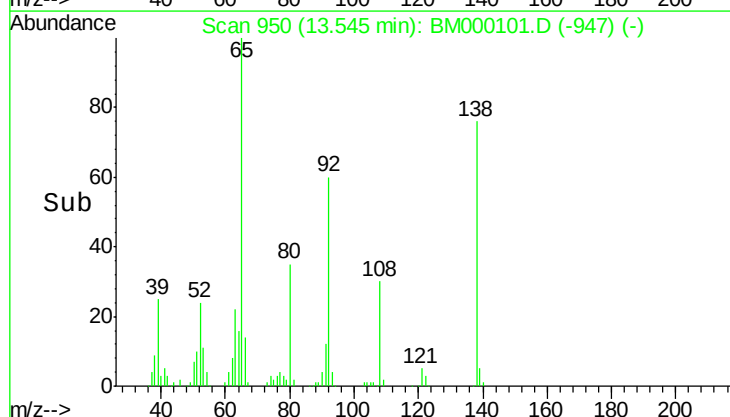
Manual Integrations
 APPROVED

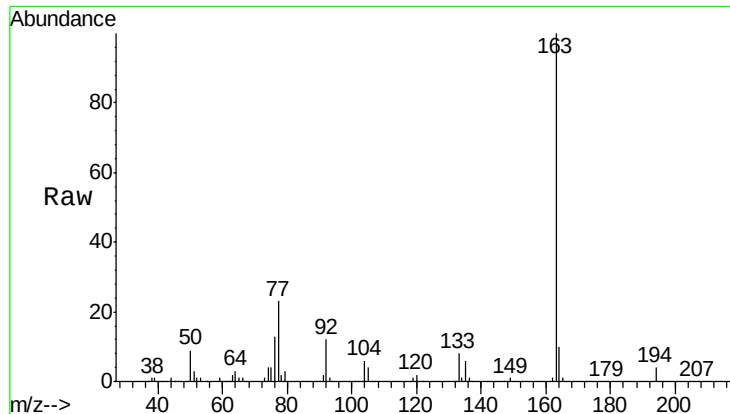
TEJASKUMAR
 1/6/2015 1:36:34 PM



#42
 2-Nitroaniline
 Concen: 21.26 ng/ul
 RT: 13.55 min Scan# 950
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion: 65 Resp: 292960
 Ion Ratio Lower Upper
 65 100
 92 60.3 50.4 75.6
 138 75.6 66.9 100.3





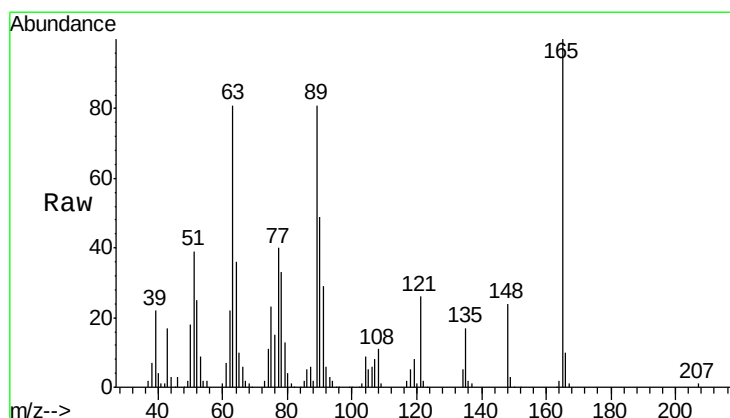
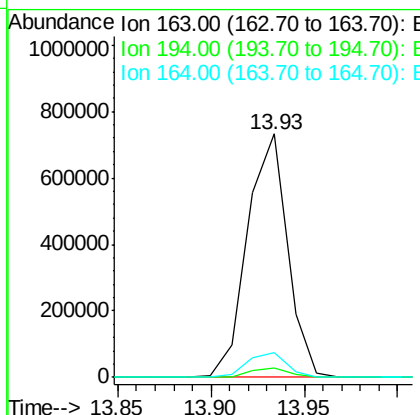
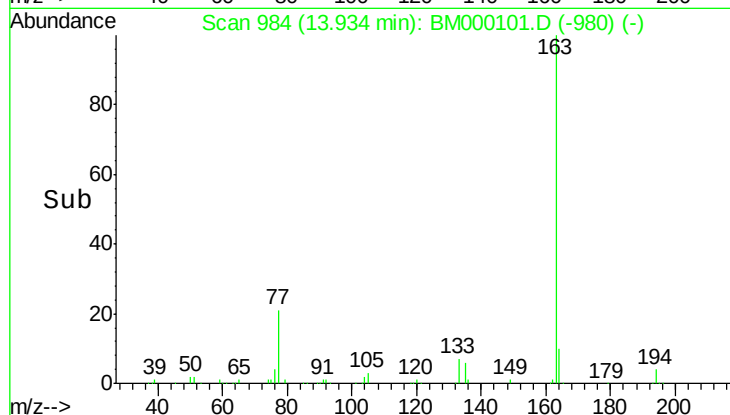
#44
Dimethylphthalate
Concen: 19.32 ng/ul
RT: 13.93 min Scan# 984
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:163 Resp: 1092400
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.4
164 10.1 8.5 12.7

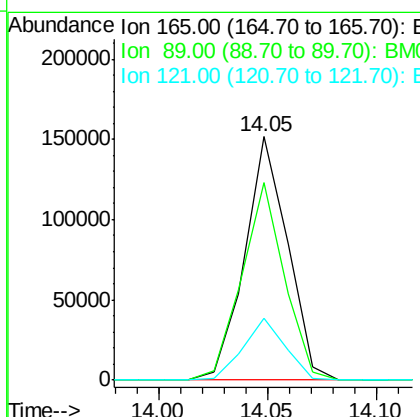
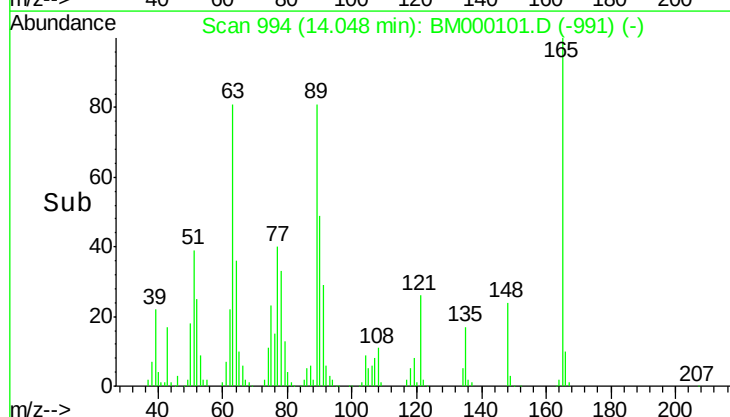
Manual Integrations
APPROVED

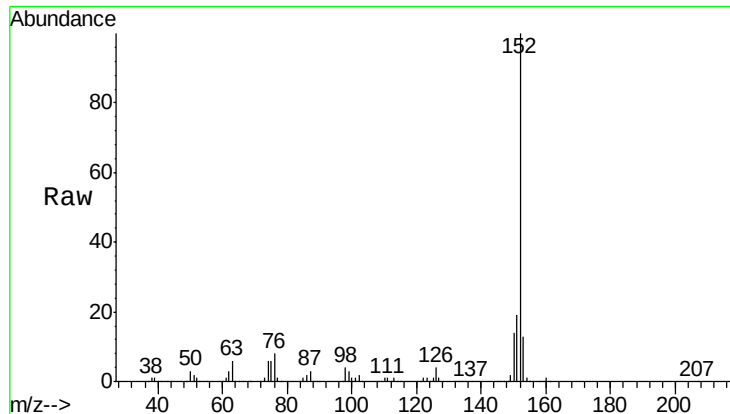
TEJASKUMAR
1/6/2015 1:36:34 PM



#45
2,6-Dinitrotoluene
Concen: 20.57 ng/ul
RT: 14.05 min Scan# 994
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:165 Resp: 208021
Ion Ratio Lower Upper
165 100
89 81.0 54.4 81.6
121 25.5 18.6 28.0





#47

Acenaphthylene

Concen: 19.12 ng/ul

RT: 14.20 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion:152 Resp: 1371061

Ion Ratio Lower Upper

152 100

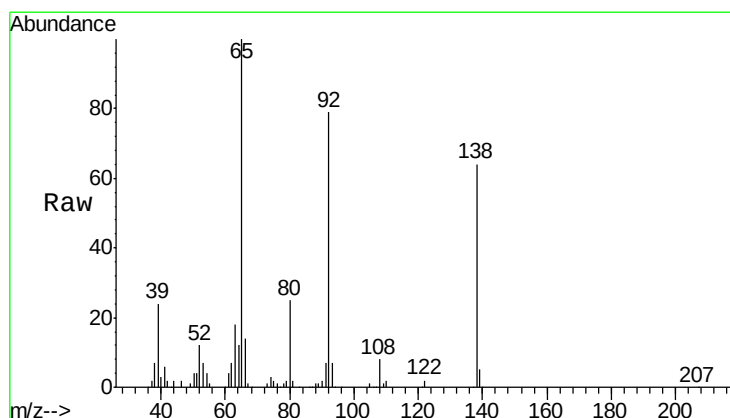
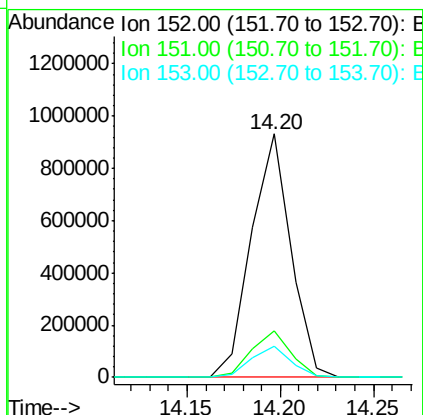
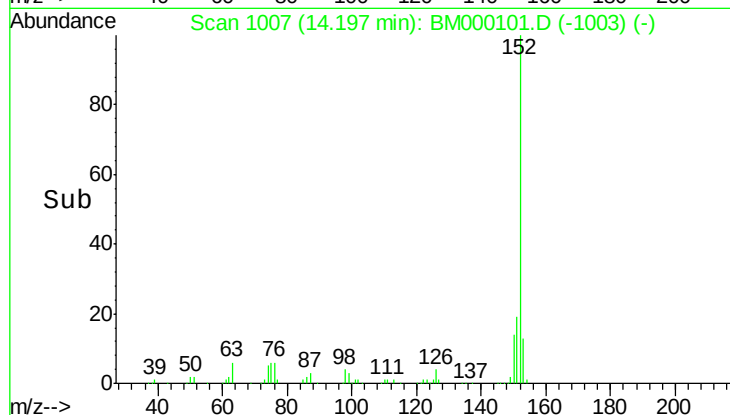
151 19.0 15.4 23.2

153 12.9 10.2 15.2

Manual Integrations

APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#48

3-Nitroaniline

Concen: 21.77 ng/ul

RT: 14.38 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

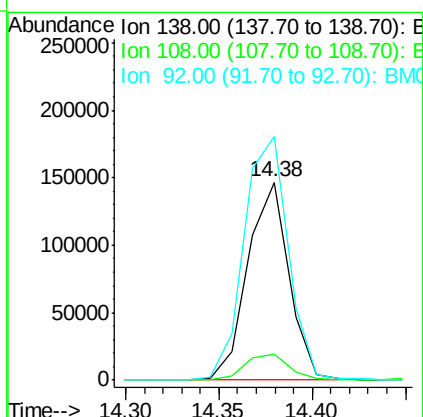
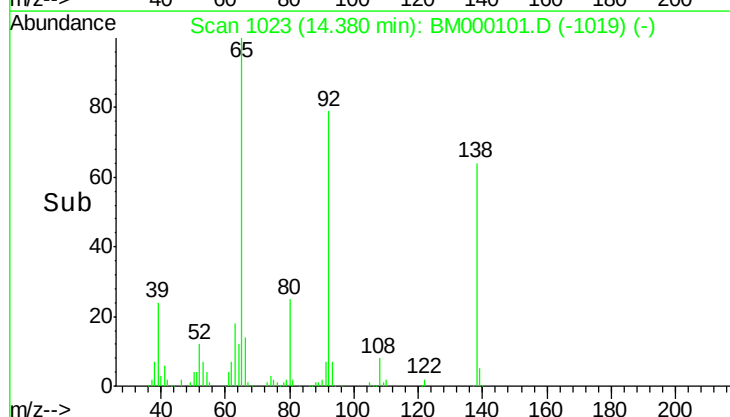
Tgt Ion:138 Resp: 225515

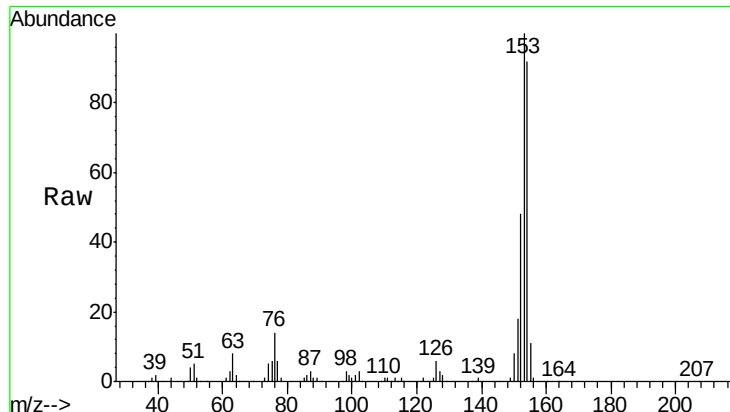
Ion Ratio Lower Upper

138 100

108 13.2 11.2 16.8

92 122.9 110.6 165.8





#49

Acenaphthene

Concen: 19.02 ng/ul

RT: 14.54 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion:153 Resp: 869429

Ion Ratio Lower Upper

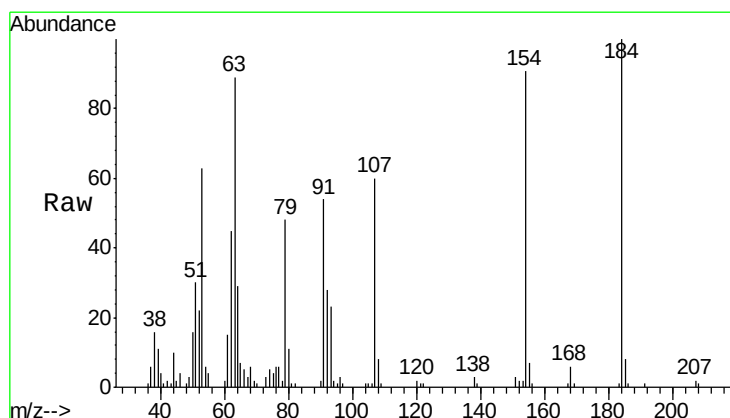
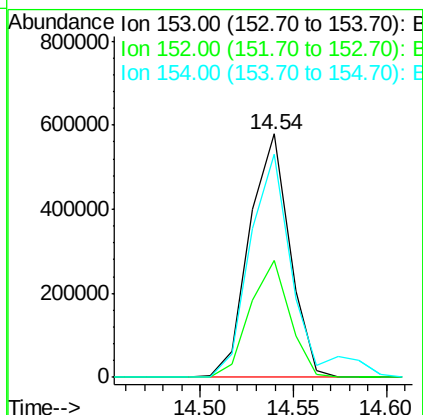
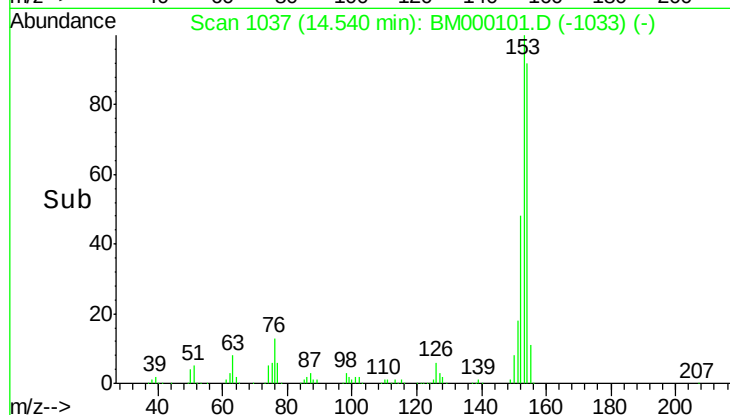
153 100

152 48.0 37.5 56.3

154 91.9 72.2 108.4

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#50

2,4-Dinitrophenol

Concen: 17.78 ng/ul

RT: 14.57 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

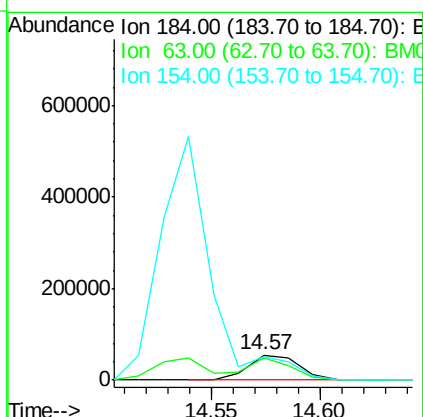
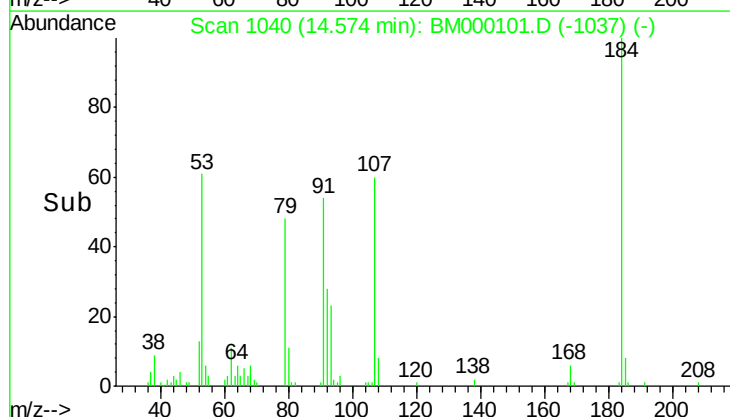
Tgt Ion:184 Resp: 91328

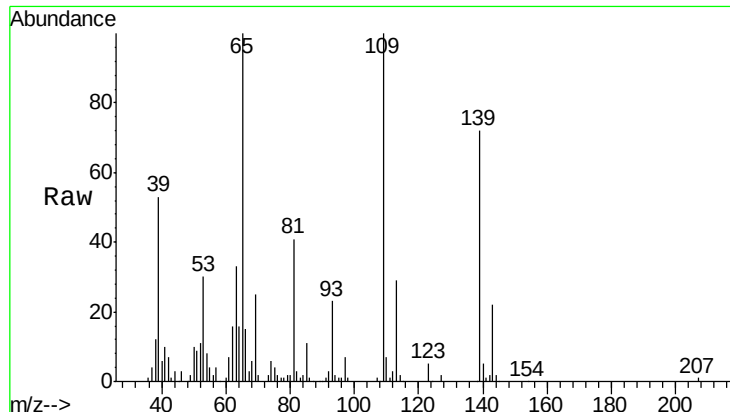
Ion Ratio Lower Upper

184 100

63 89.2 56.1 84.1#

154 90.5 68.2 102.4





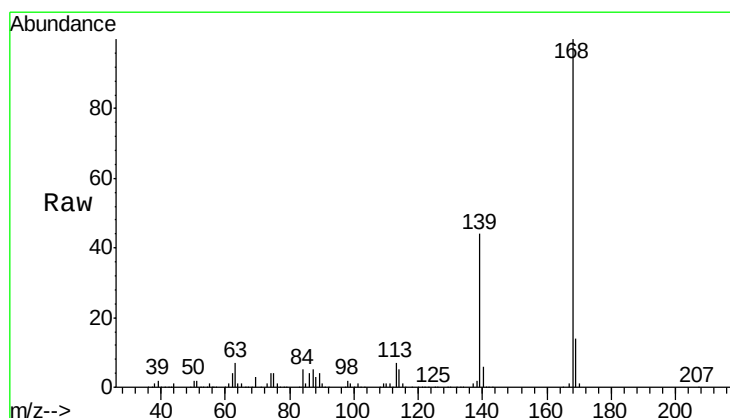
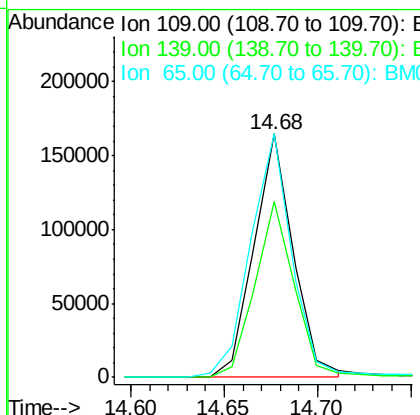
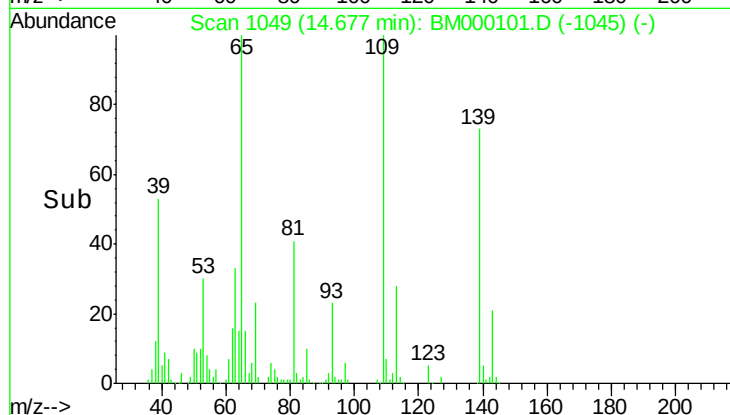
#52
4-Nitrophenol
Concen: 19.69 ng/ul
RT: 14.68 min Scan# 1049
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:109 Resp: 240151
Ion Ratio Lower Upper
109 100
139 72.6 62.5 93.7
65 100.2 88.7 133.1

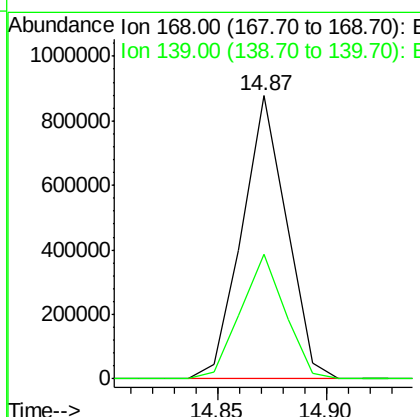
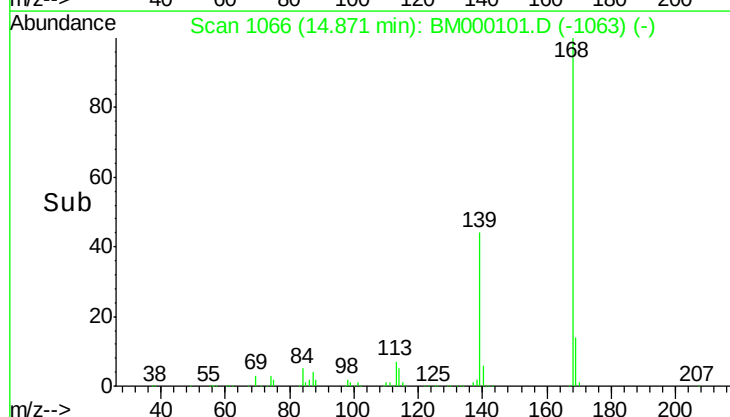
Manual Integrations
APPROVED

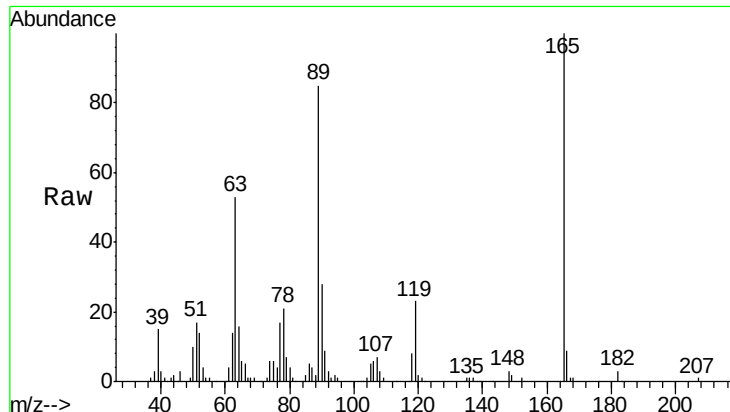
TEJASKUMAR
1/6/2015 1:36:34 PM



#53
Dibenzofuran
Concen: 18.93 ng/ul
RT: 14.87 min Scan# 1066
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:168 Resp: 1253109
Ion Ratio Lower Upper
168 100
139 44.3 33.6 50.4





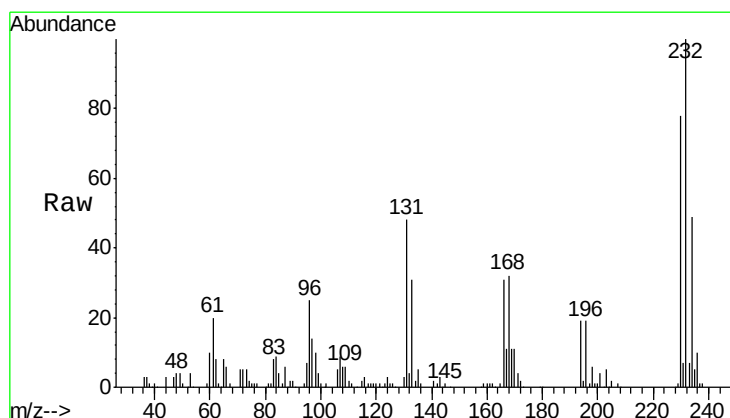
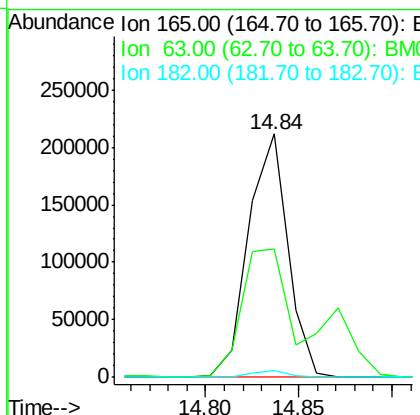
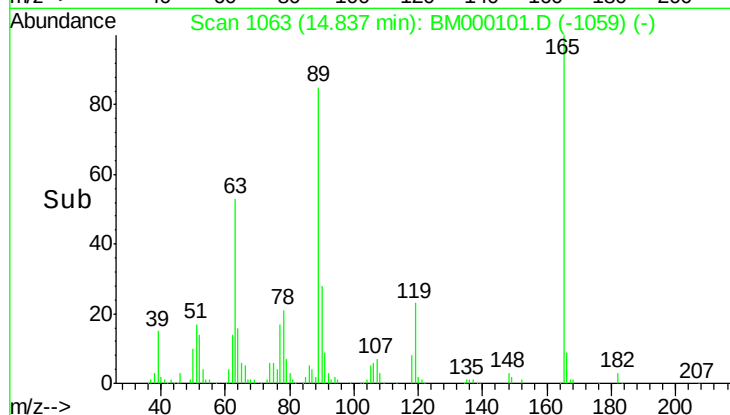
#54
 2,4-Dinitrotoluene
 Concen: 20.50 ng/ul
 RT: 14.84 min Scan# 1063
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampled :
 SSTD02011

Tgt Ion	Ratio	Lower	Upper
165	100		
63	52.8	48.8	73.2
182	2.7	2.1	3.1

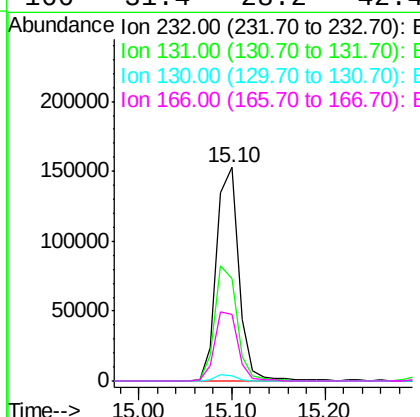
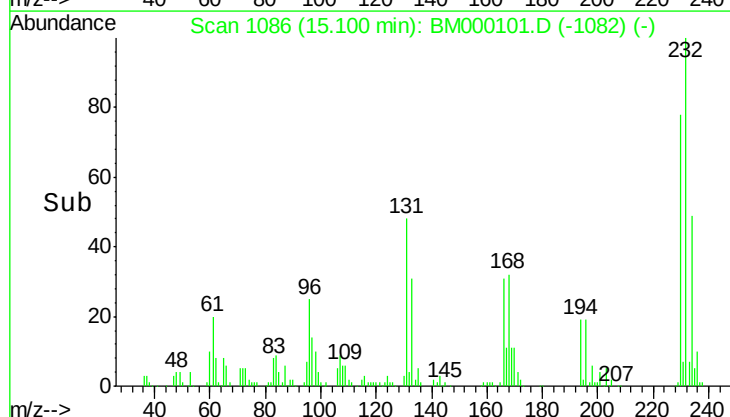
Manual Integrations
 APPROVED

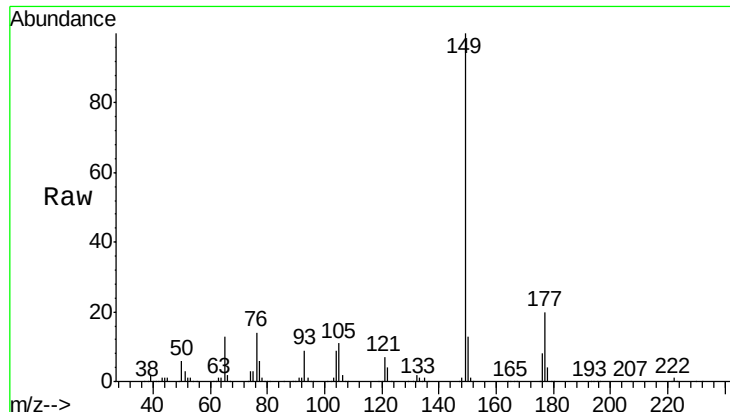
TEJASKUMAR
 1/6/2015 1:36:34 PM



#55
 2,3,4,6-Tetrachlorophenol
 Concen: 20.06 ng/ul
 RT: 15.10 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Lower	Upper
232	100		
131	48.2	43.4	65.0
130	2.6	2.7	4.1#
166	31.4	28.2	42.4





#56

Diethylphthalate

Concen: 19.40 ng/ul

RT: 15.29 min Scan# 1103

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion:149 Resp: 1152930

Ion Ratio Lower Upper

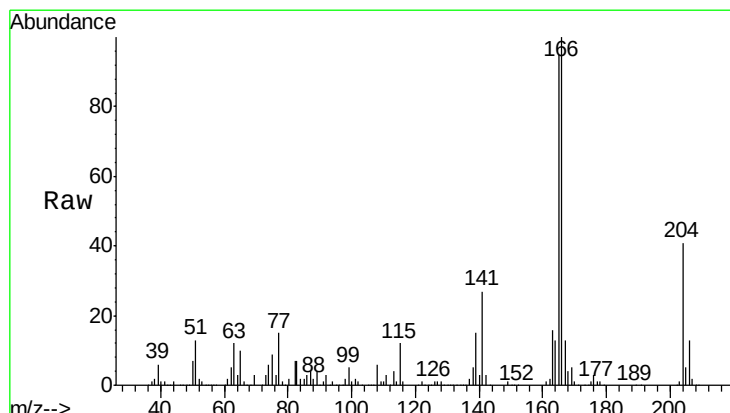
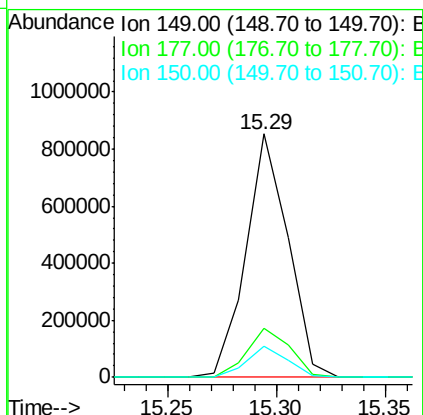
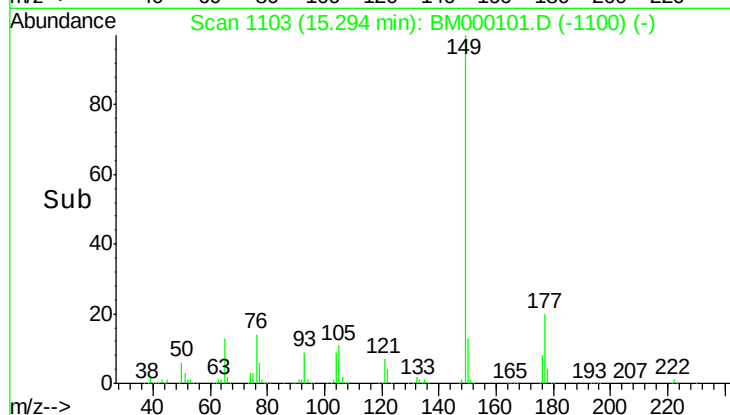
149 100

177 20.1 17.4 26.2

150 12.8 10.5 15.7

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#58

Fluorene

Concen: 19.09 ng/ul

RT: 15.52 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

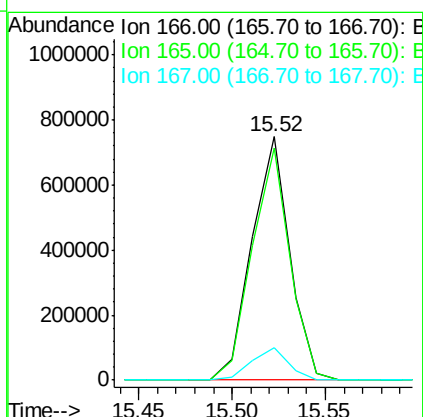
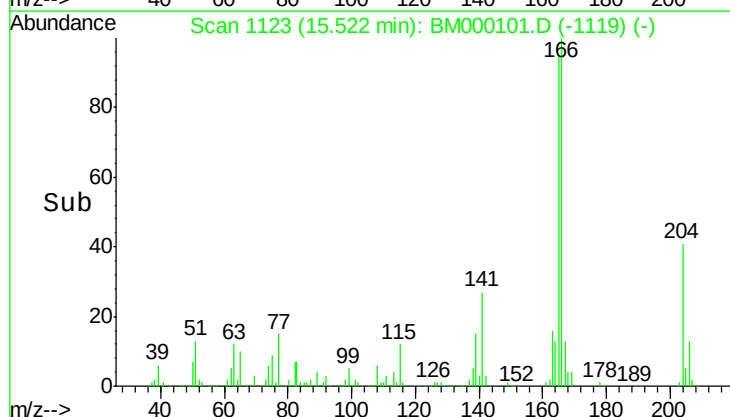
Tgt Ion:166 Resp: 1048472

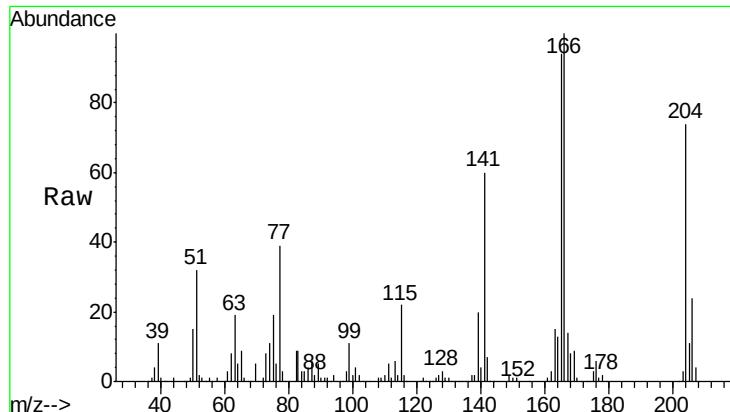
Ion Ratio Lower Upper

166 100

165 95.1 76.0 114.0

167 13.1 10.2 15.4





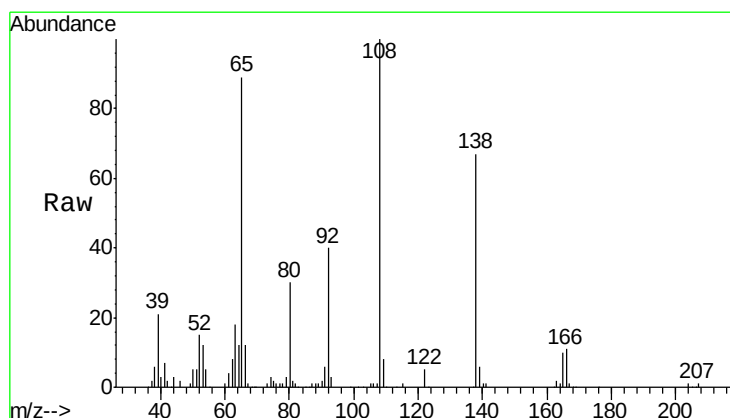
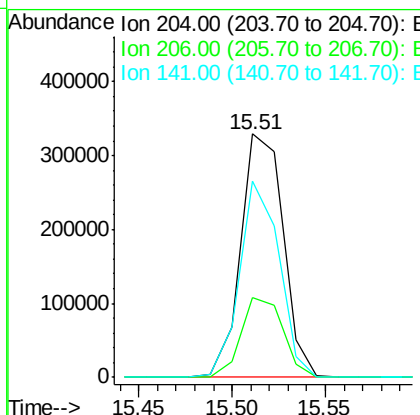
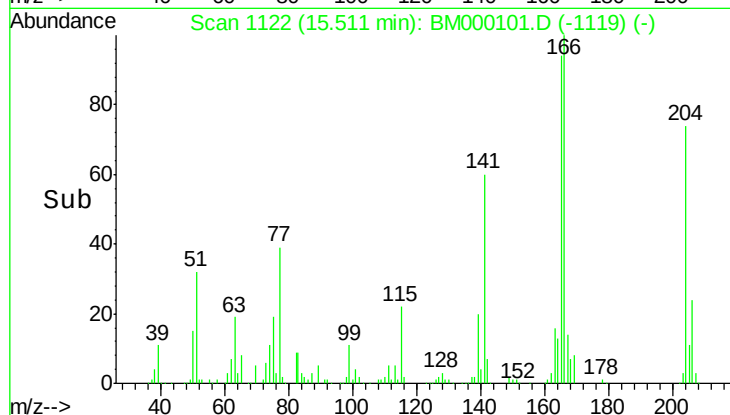
#59
 4-Chlorophenyl-phenylether
 Concen: 19.21 ng/ul
 RT: 15.51 min Scan# 1122
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:204 Resp: 520548
 Ion Ratio Lower Upper
 204 100
 206 32.9 25.8 38.8
 141 80.5 61.3 91.9

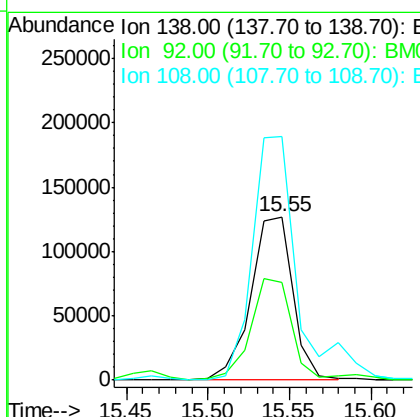
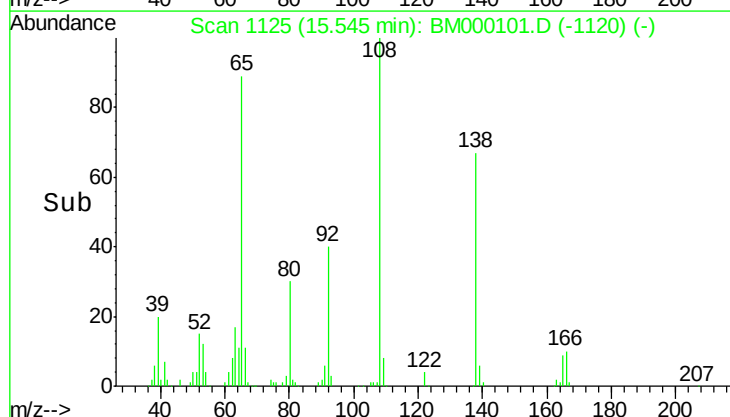
Manual Integrations
 APPROVED

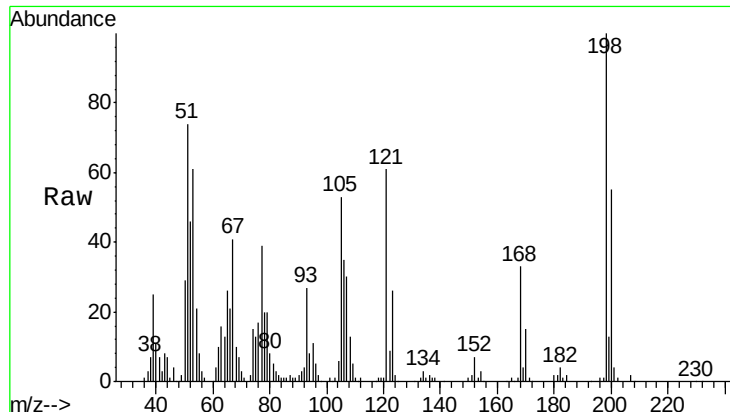
TEJASKUMAR
 1/6/2015 1:36:34 PM



#60
 4-Nitroaniline
 Concen: 19.51 ng/ul
 RT: 15.55 min Scan# 1125
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:138 Resp: 228360
 Ion Ratio Lower Upper
 138 100
 92 60.0 49.3 73.9
 108 149.2 110.3 165.5





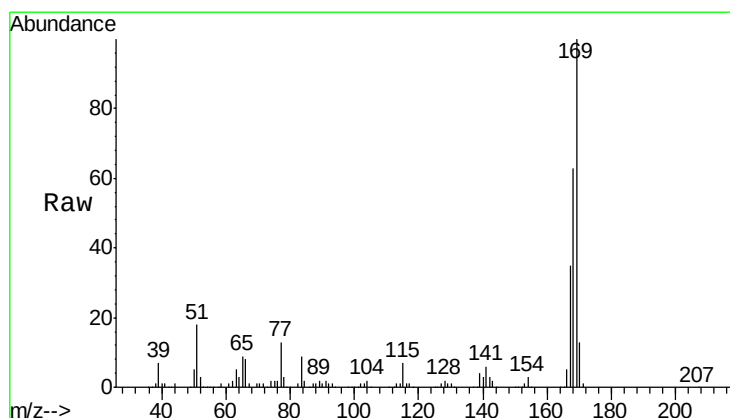
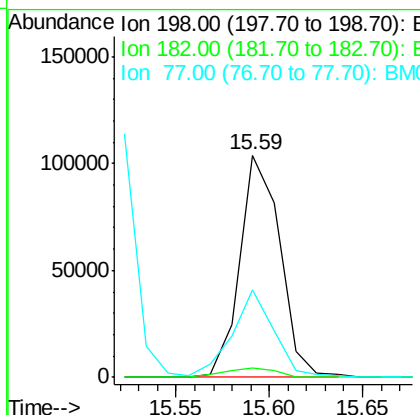
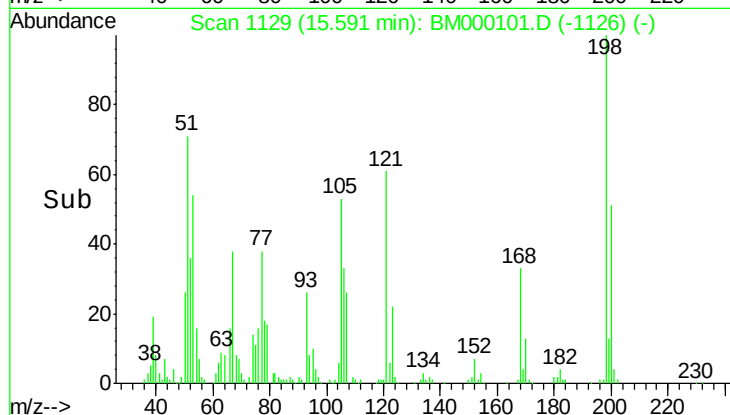
#63
 4,6-Dinitro-2-methylphenol
 Concen: 18.98 ng/ul
 RT: 15.59 min Scan# 1129
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion	Ratio	Resp	Lower	Upper
198	100	155645		
182	4.4	2.6	4.0#	
77	39.1	25.2	37.8#	

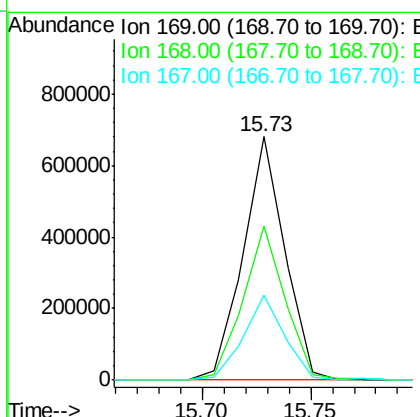
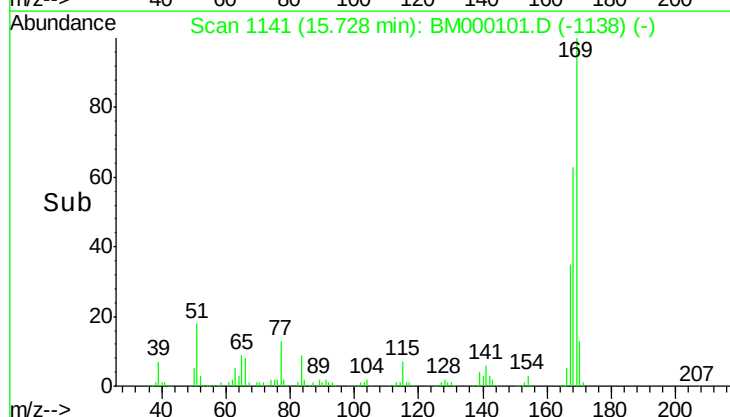
Manual Integrations
 APPROVED

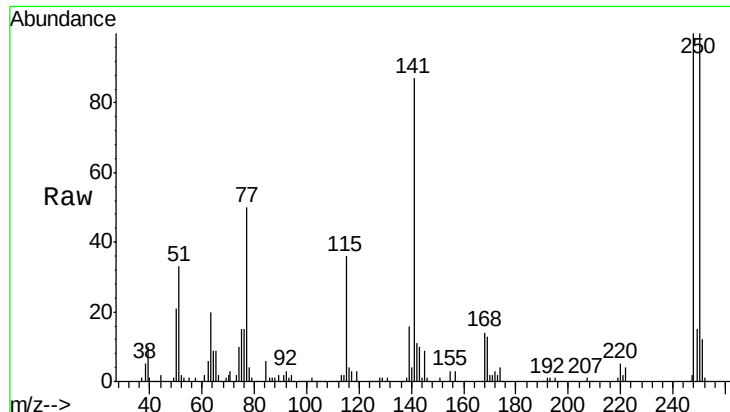
TEJASKUMAR
 1/6/2015 1:36:34 PM



#64
 N-Nitrosodiphenylamine
 Concen: 19.36 ng/ul
 RT: 15.73 min Scan# 1141
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	907473		
168	63.4	51.8	77.6	
167	35.1	28.1	42.1	





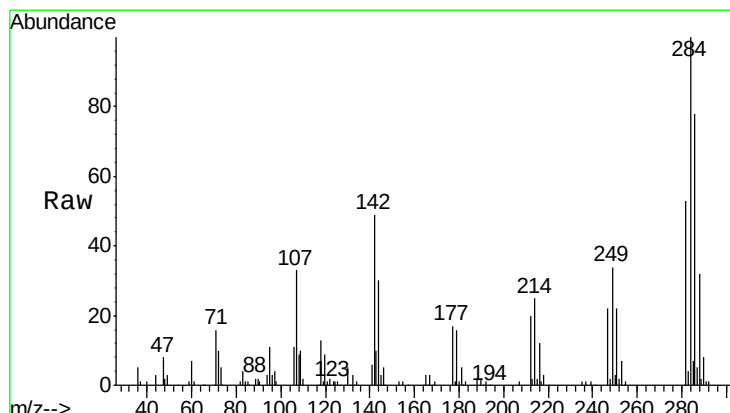
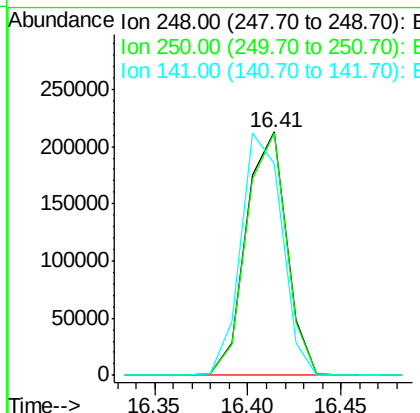
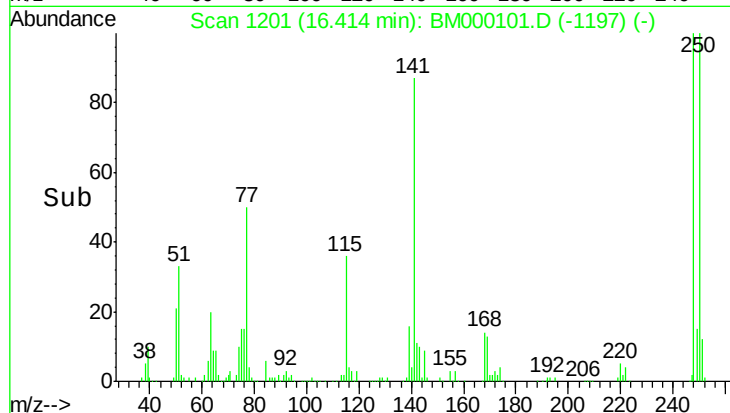
#65
 4-Bromophenyl-phenylether
 Concen: 19.46 ng/ul
 RT: 16.41 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:	248	Resp:	320438
Ion Ratio	Lower	Upper	
248	100		
250	99.6	78.4	117.6
141	86.7	67.0	100.4

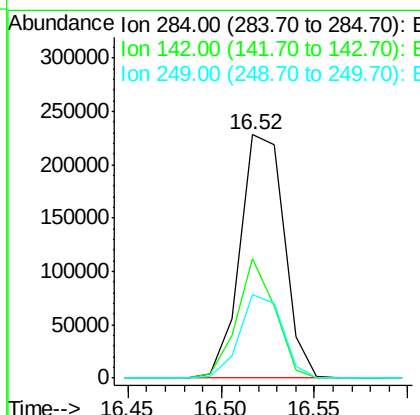
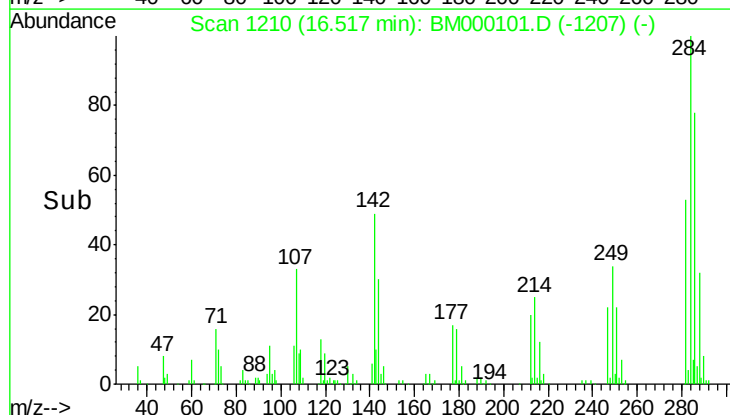
Manual Integrations
 APPROVED

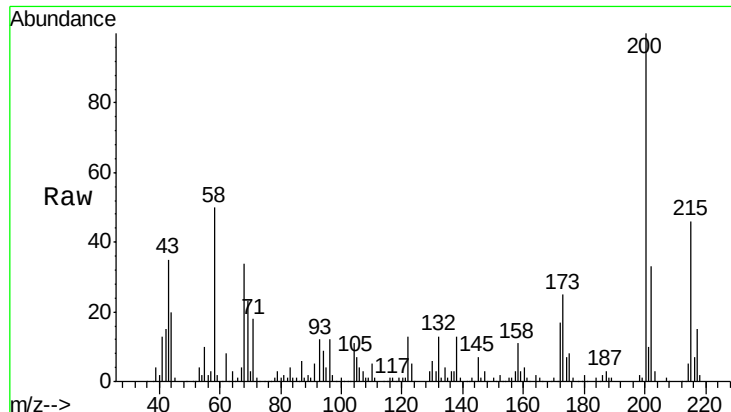
TEJASKUMAR
 1/6/2015 1:36:34 PM



#66
 Hexachlorobenzene
 Concen: 19.78 ng/ul
 RT: 16.52 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:	284	Resp:	375446
Ion Ratio	Lower	Upper	
284	100		
142	48.8	32.4	48.6#
249	34.4	26.7	40.1





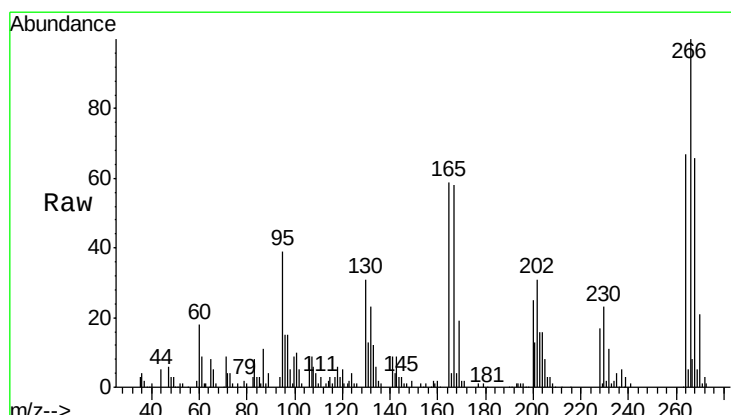
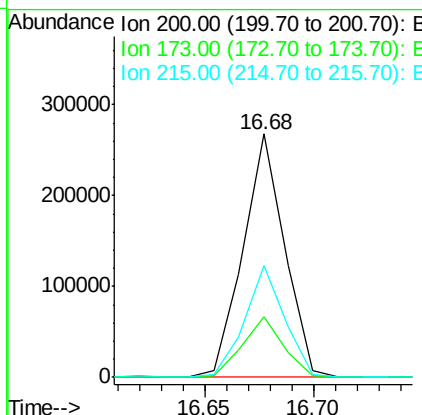
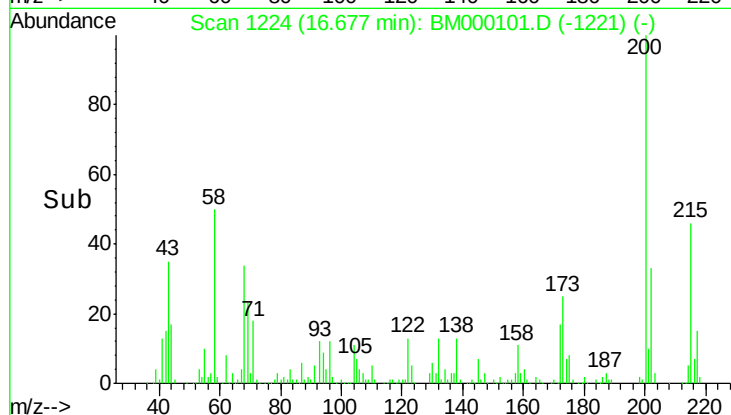
#67
Atrazine
Concen: 19.29 ng/ul
RT: 16.68 min Scan# 1224
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.0	19.5	29.3
215	46.1	36.6	54.8

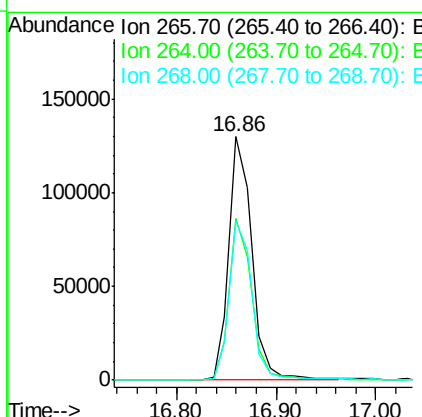
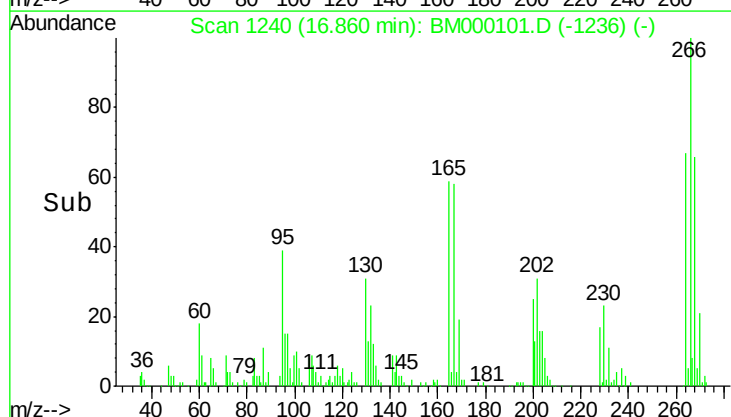
Manual Integrations
APPROVED

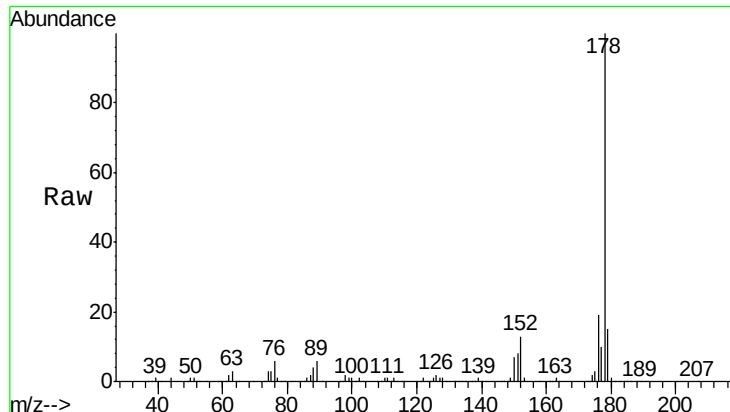
TEJASKUMAR
1/6/2015 1:36:34 PM



#68
Pentachlorophenol
Concen: 18.20 ng/ul m
RT: 16.86 min Scan# 1240
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Lower	Upper
266	100		
264	66.5	49.8	74.6
268	65.6	48.2	72.4





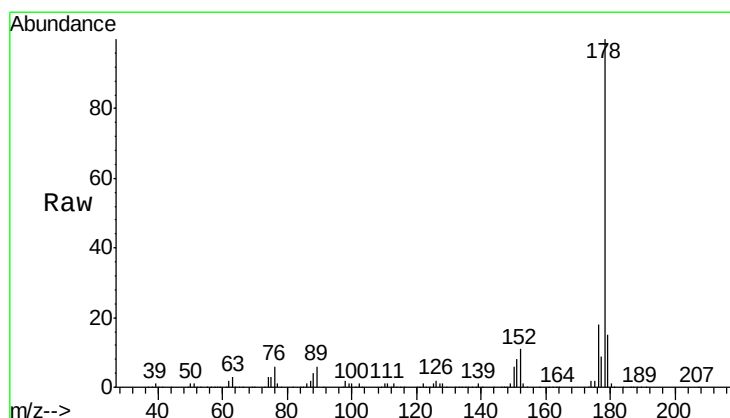
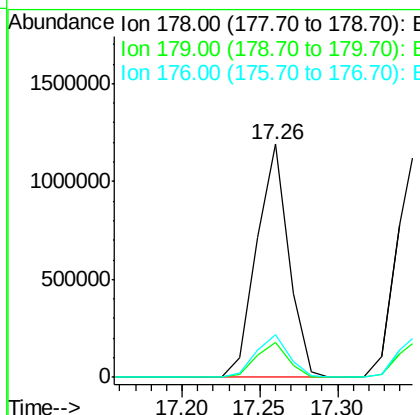
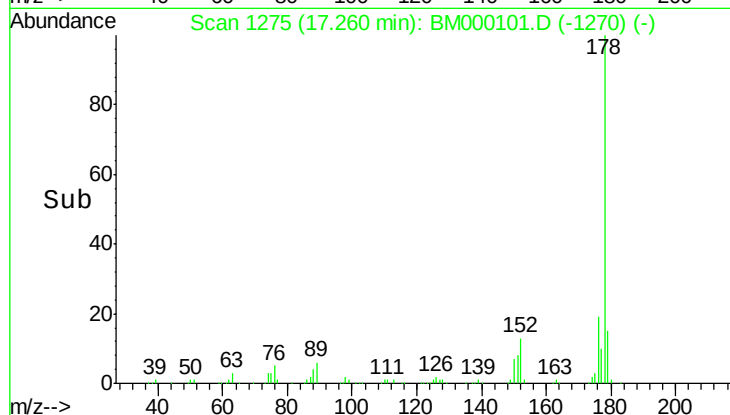
#69
Phenanthrene
Concen: 19.32 ng/ul m
RT: 17.26 min Scan# 1275
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:178 Resp: 1689233
Ion Ratio Lower Upper
178 100
179 15.2 11.6 17.4
176 18.5 14.6 22.0

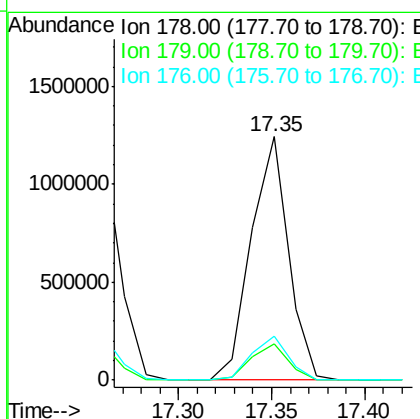
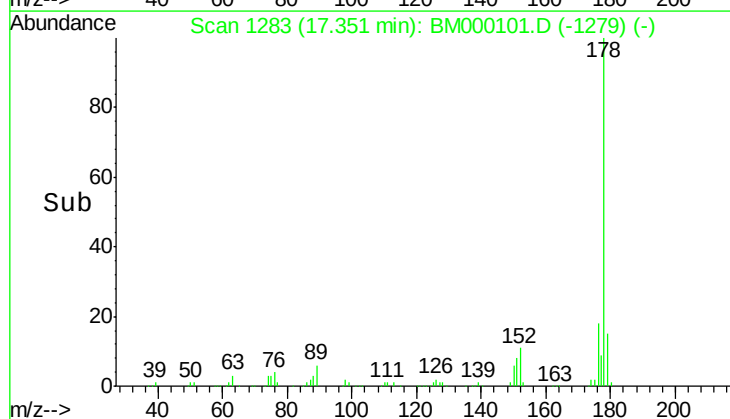
Manual Integrations
APPROVED

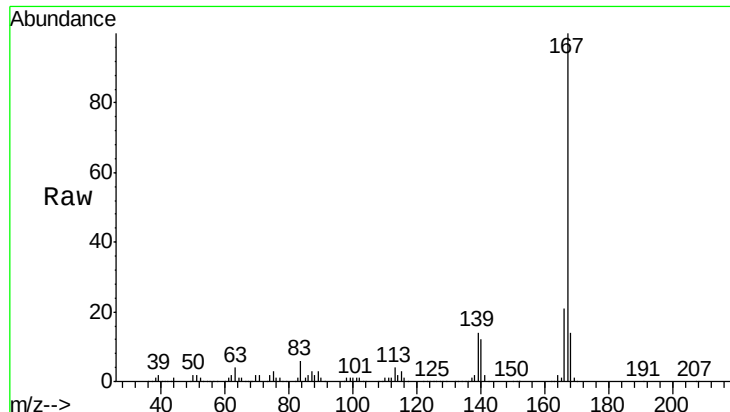
TEJASKUMAR
1/6/2015 1:36:34 PM



#71
Anthracene
Concen: 19.21 ng/ul
RT: 17.35 min Scan# 1283
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:178 Resp: 1727927
Ion Ratio Lower Upper
178 100
179 15.0 12.6 18.8
176 17.9 14.6 21.8





#72

Carbazole

Concen: 19.04 ng/ul

RT: 17.61 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion:167 Resp: 1542375

Ion Ratio Lower Upper

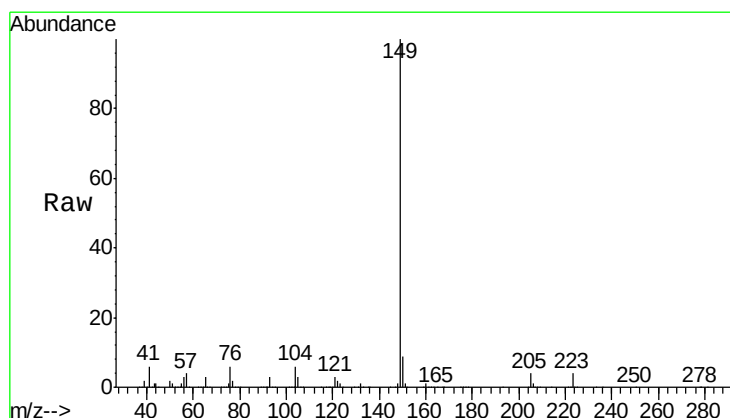
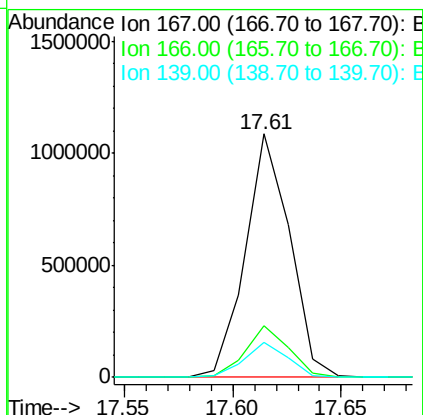
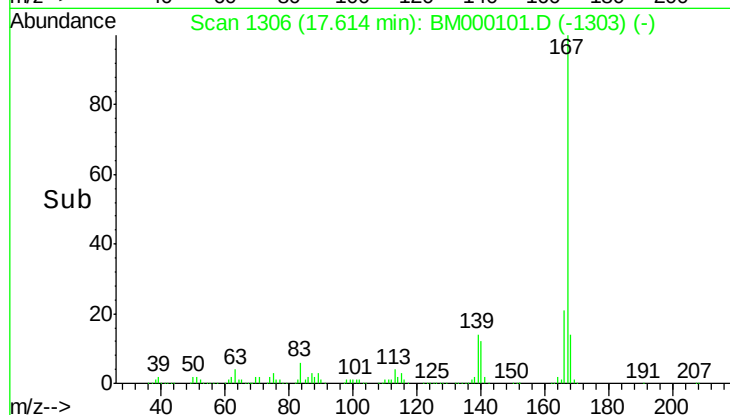
167 100

166 21.3 16.2 24.4

139 14.3 10.7 16.1

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#73

Di-n-butylphthalate

Concen: 19.71 ng/ul

RT: 18.19 min Scan# 1356

Delta R.T. -0.00 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

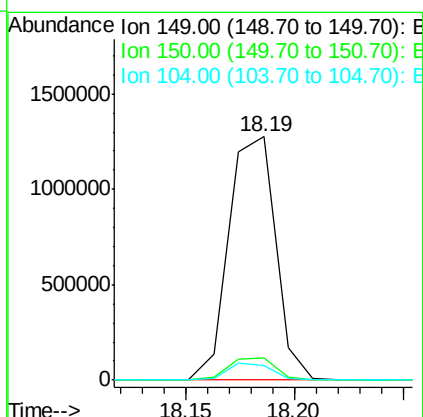
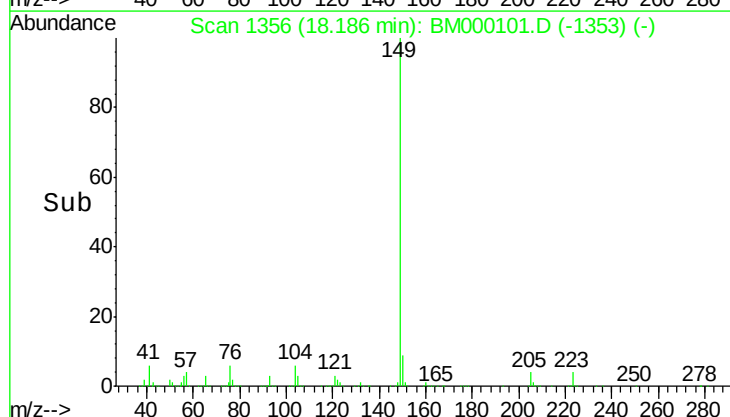
Tgt Ion:149 Resp: 1905199

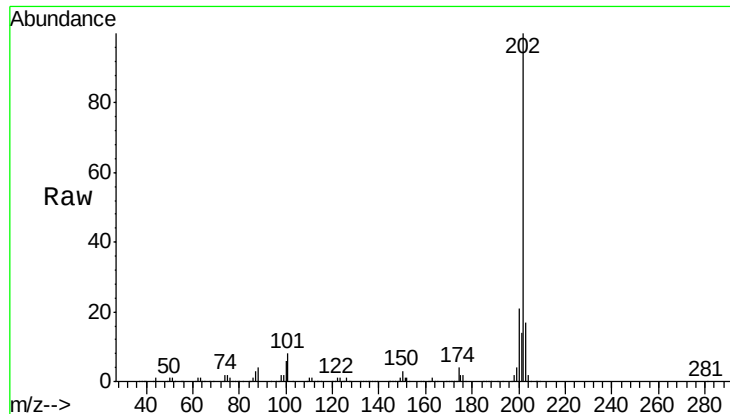
Ion Ratio Lower Upper

149 100

150 9.0 7.1 10.7

104 6.2 4.8 7.2





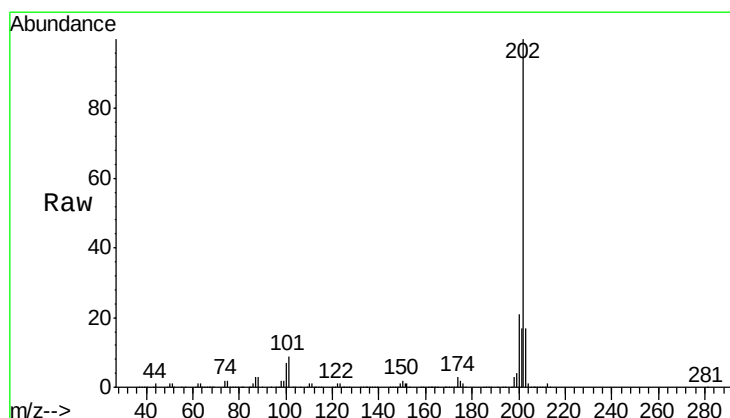
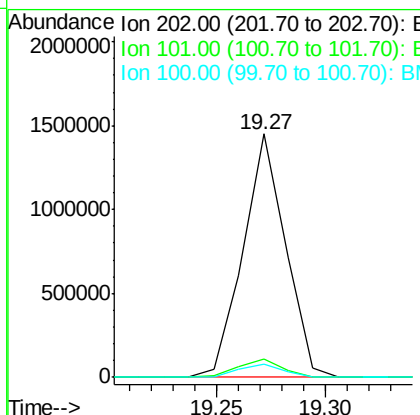
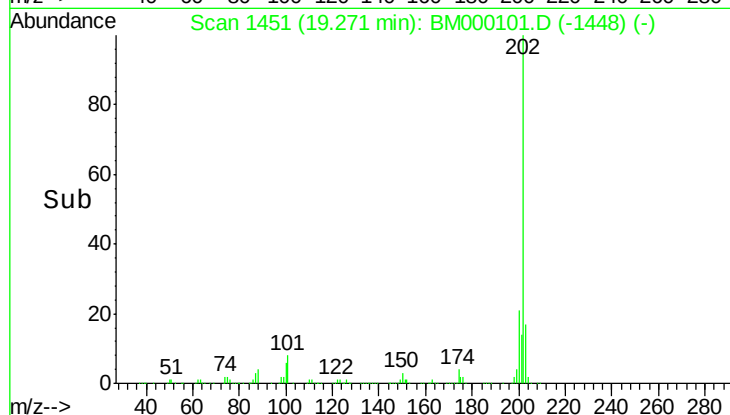
#74
Fluoranthene
Concen: 19.65 ng/ul
RT: 19.27 min Scan# 1451
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:202 Resp: 1970481
Ion Ratio Lower Upper
202 100
101 7.6 6.4 9.6
100 5.7 4.6 7.0

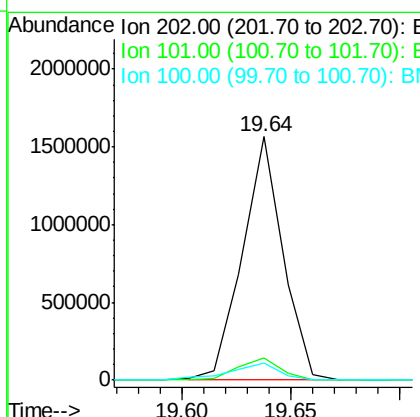
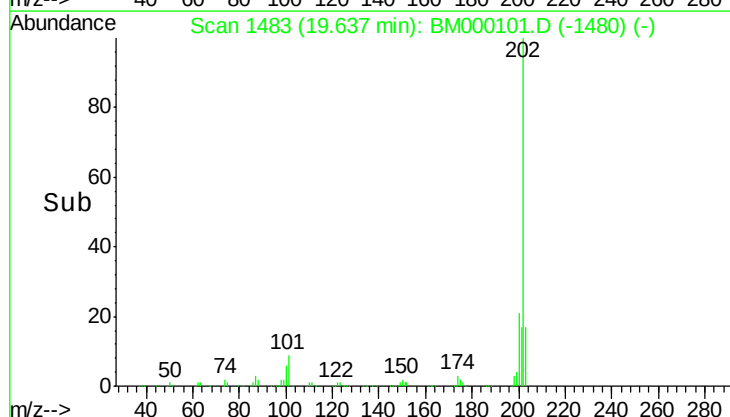
Manual Integrations
APPROVED

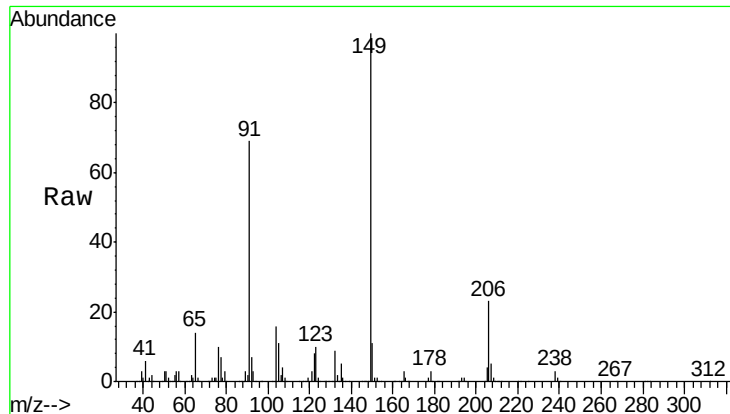
TEJASKUMAR
1/6/2015 1:36:34 PM



#77
Pyrene
Concen: 20.72 ng/ul
RT: 19.64 min Scan# 1483
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:202 Resp: 2021763
Ion Ratio Lower Upper
202 100
101 9.1 6.9 10.3
100 6.9 5.5 8.3





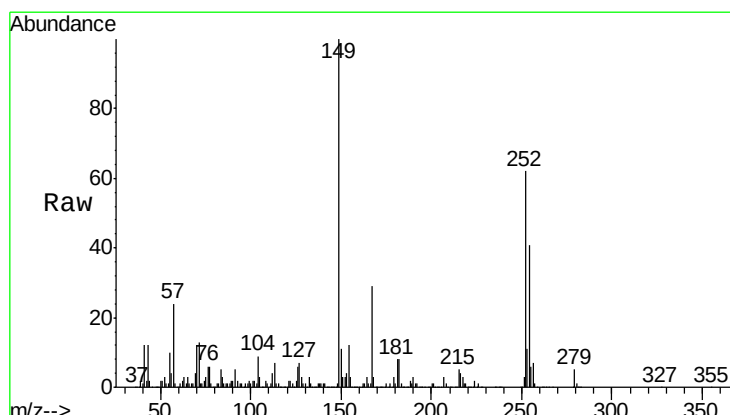
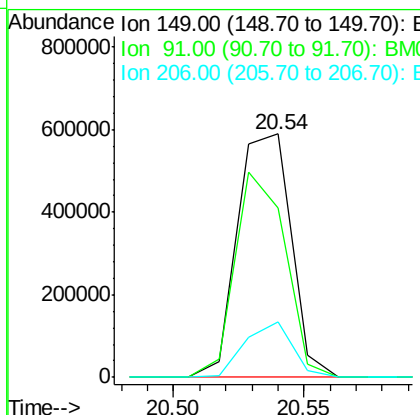
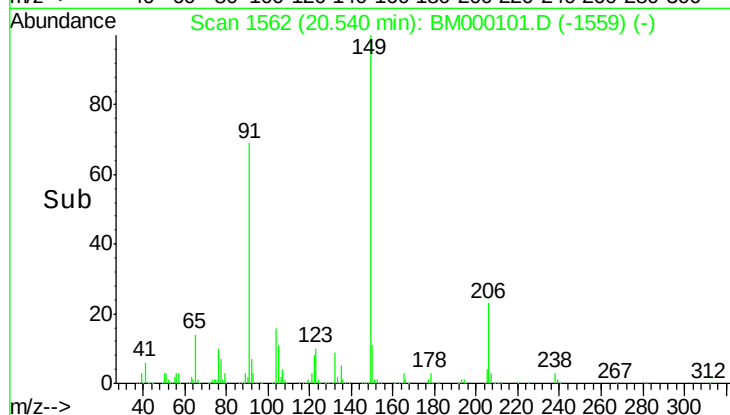
#78
Butylbenzylphthalate
Concen: 21.57 ng/ul
RT: 20.54 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	855211		
91	69.3	56.6	84.8	
206	22.5	16.8	25.2	

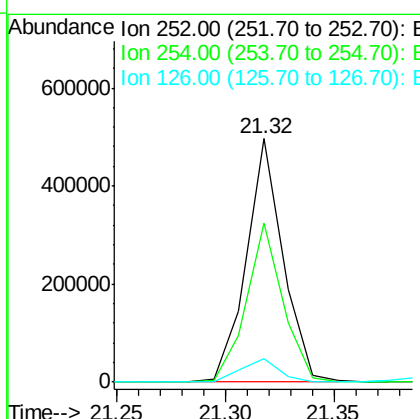
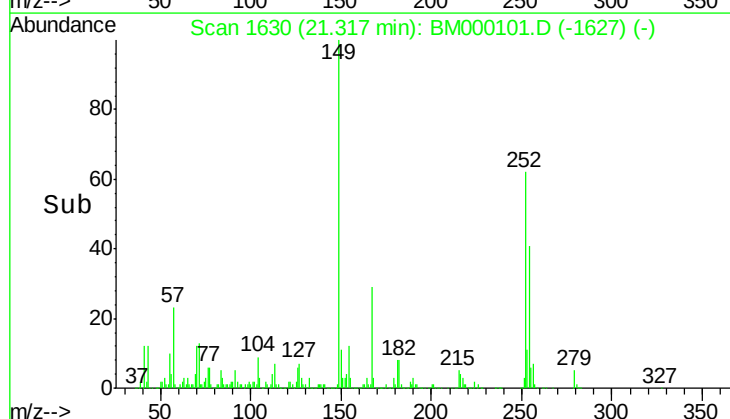
Manual Integrations
APPROVED

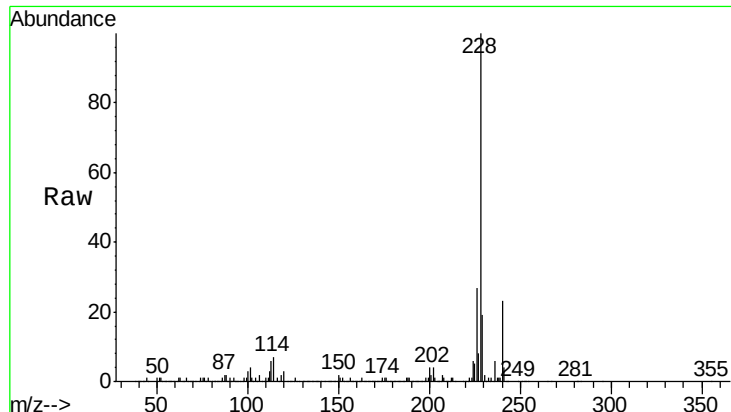
TEJASKUMAR
1/6/2015 1:36:34 PM



#79
3,3'-Dichlorobenzidine
Concen: 19.76 ng/ul
RT: 21.32 min Scan# 1630
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	584772		
254	65.1	51.2	76.8	
126	9.9	7.9	11.9	





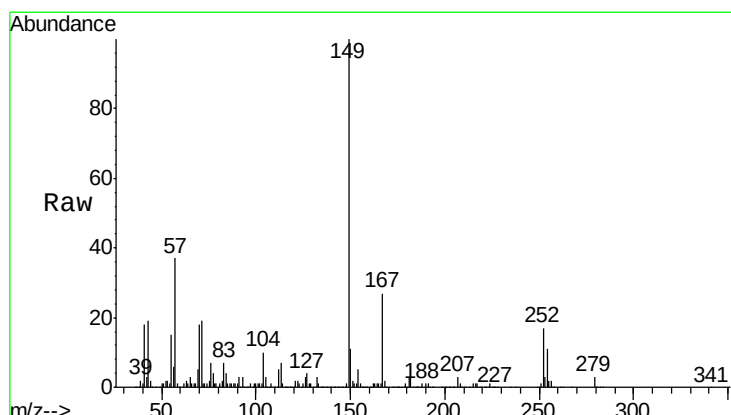
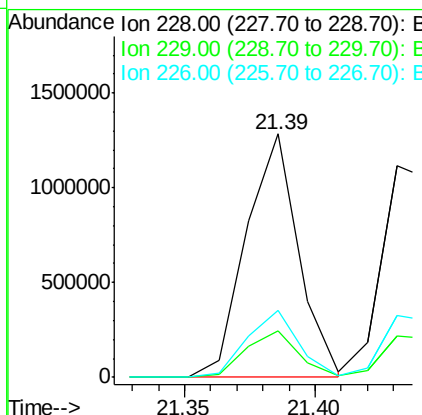
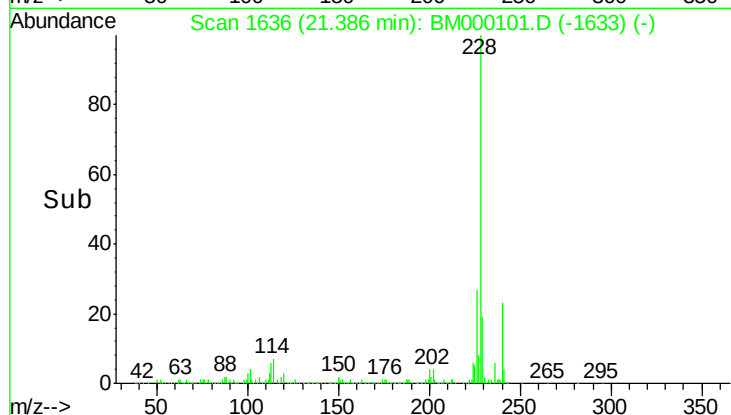
#80
Benzo(a)anthracene
Concen: 19.23 ng/ul
RT: 21.39 min Scan# 1636
Delta R.T. -0.00 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:228 Resp: 1797236
Ion Ratio Lower Upper
228 100
229 19.2 15.8 23.8
226 27.3 20.7 31.1

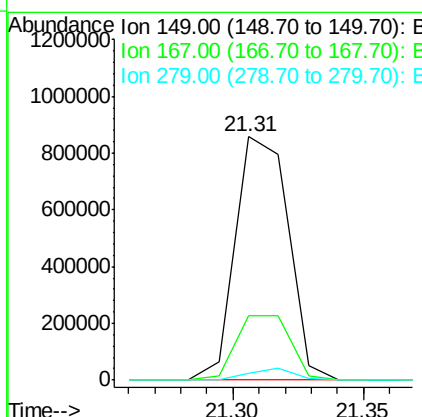
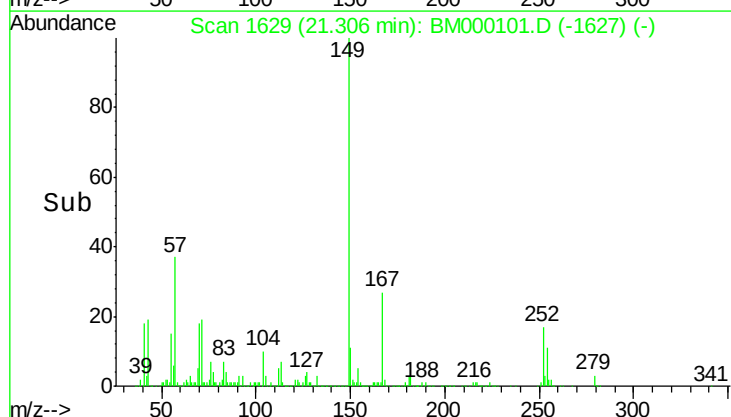
Manual Integrations
APPROVED

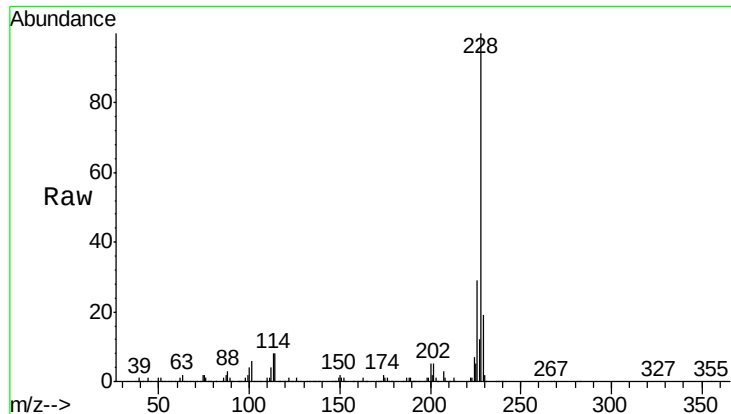
TEJASKUMAR
1/6/2015 1:36:34 PM



#81
Bis(2-ethylhexyl)phthalate
Concen: 21.01 ng/ul
RT: 21.31 min Scan# 1629
Delta R.T. -0.02 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:149 Resp: 1212511
Ion Ratio Lower Upper
149 100
167 26.5 22.1 33.1
279 2.6 3.0 4.6#





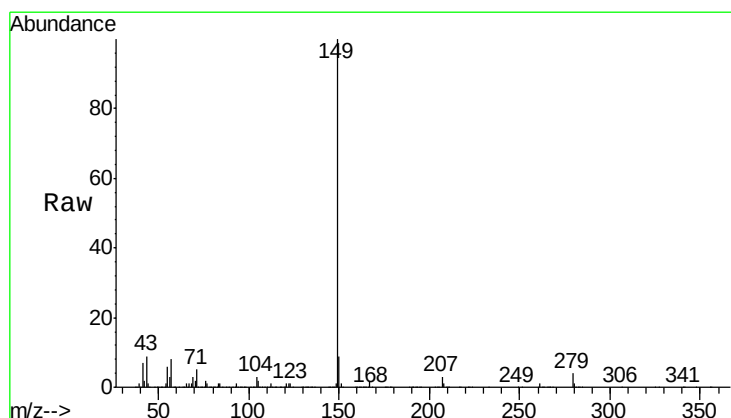
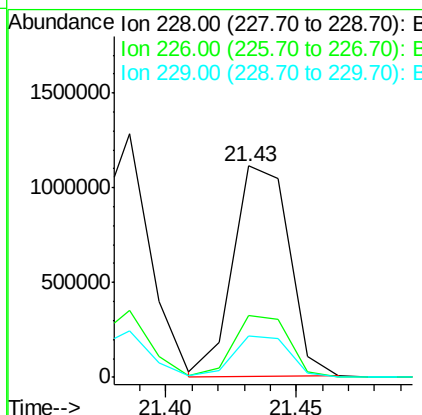
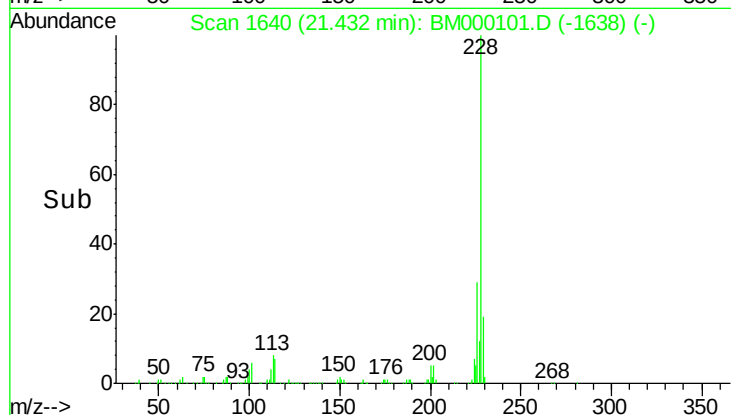
#82
 Chrysene
 Concen: 19.34 ng/ul
 RT: 21.43 min Scan# 1640
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Instrument :
 BNA_M
 ClientSampleId :
 SST02011

Tgt Ion:228 Resp: 1665908
 Ion Ratio Lower Upper
 228 100
 226 29.3 23.0 34.4
 229 19.4 15.6 23.4

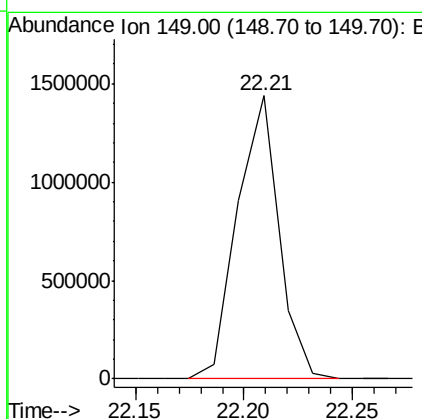
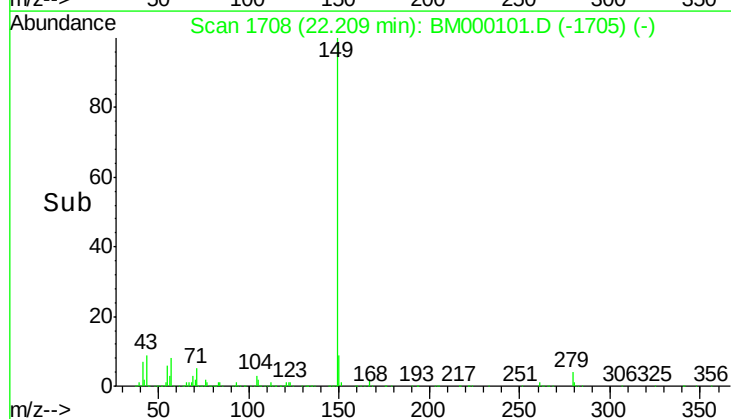
Manual Integrations
 APPROVED

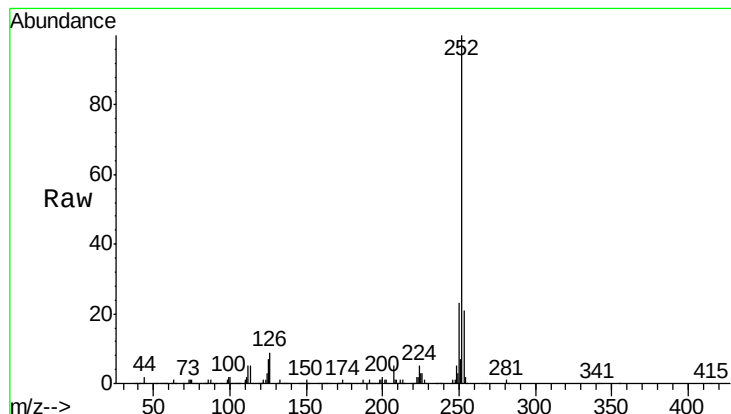
TEJASKUMAR
 1/6/2015 1:36:34 PM



#84
 Di-n-octyl phthalate
 Concen: 21.02 ng/ul
 RT: 22.21 min Scan# 1708
 Delta R.T. -0.01 min
 Lab File: BM000101.D
 Acq: 02 Jan 2015 09:40

Tgt Ion:149 Resp: 1914961





#85

Benzo(b)fluoranthene

Concen: 18.85 ng/ul

RT: 23.00 min Scan# 1777

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion:252 Resp: 1593572

Ion Ratio Lower Upper

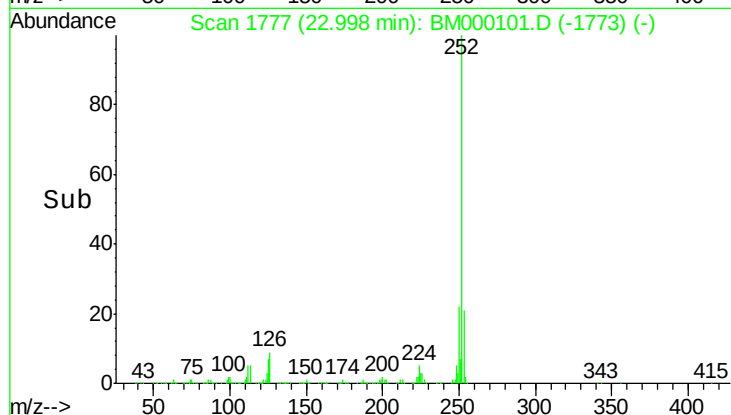
252 100

253 21.4 17.1 25.7

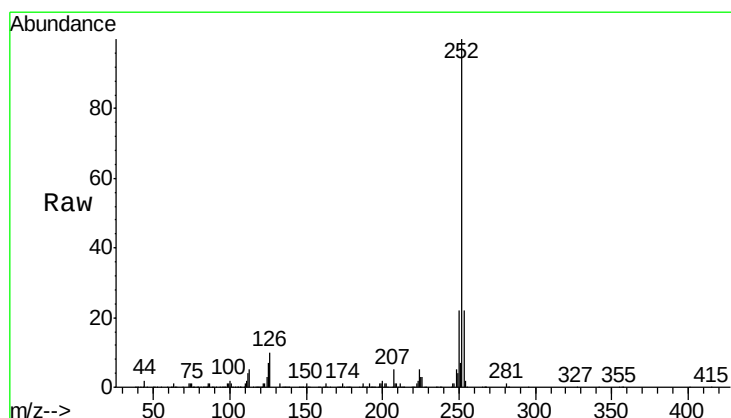
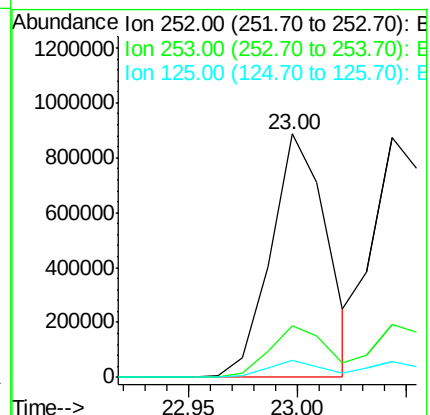
125 6.8 4.8 7.2

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



Scan 1777 (22.998 min): BM000101.D (-1773) (-)



#86

Benzo(k)fluoranthene

Concen: 21.18 ng/ul

RT: 23.04 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

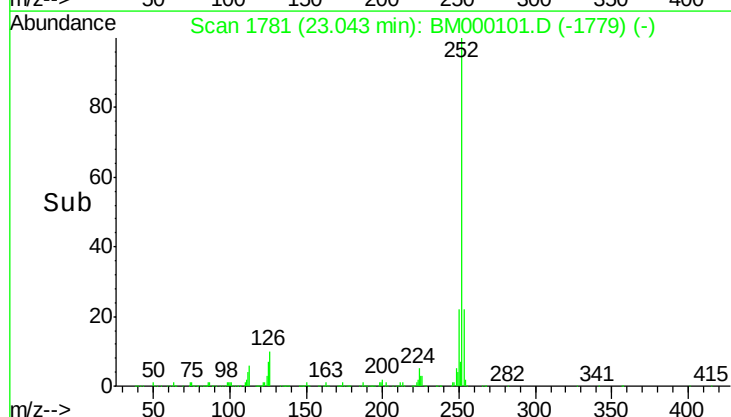
Tgt Ion:252 Resp: 1528853

Ion Ratio Lower Upper

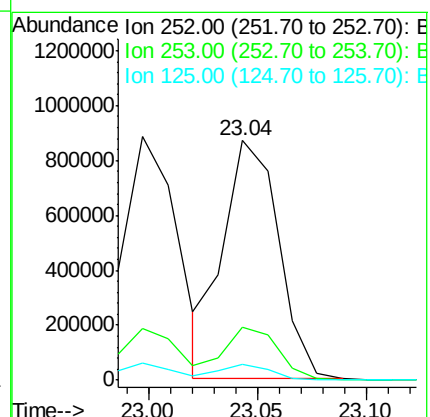
252 100

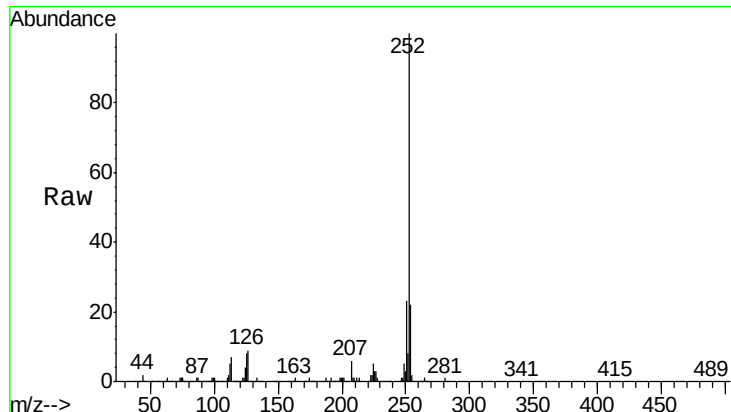
253 22.0 17.2 25.8

125 6.6 4.9 7.3



Scan 1781 (23.043 min): BM000101.D (-1779) (-)





#88

Benzo(a)pyrene

Concen: 19.41 ng/ul

RT: 23.59 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

Instrument :

BNA_M

ClientSampleId :

SSTD02011

Tgt Ion:252 Resp: 1441187

Ion Ratio Lower Upper

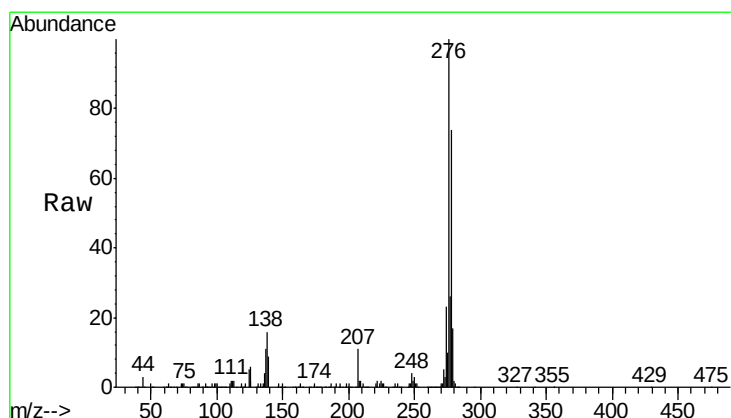
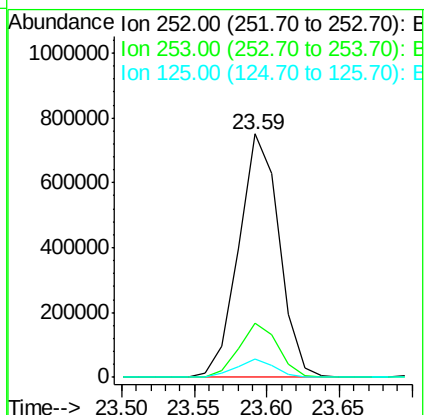
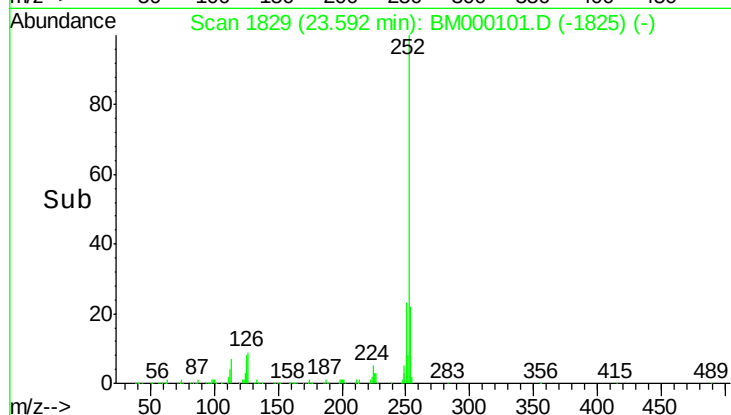
252 100

253 22.3 17.0 25.6

125 7.6 5.8 8.6

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#89

Indeno(1,2,3-cd)pyrene

Concen: 19.18 ng/ul

RT: 26.03 min Scan# 2042

Delta R.T. -0.02 min

Lab File: BM000101.D

Acq: 02 Jan 2015 09:40

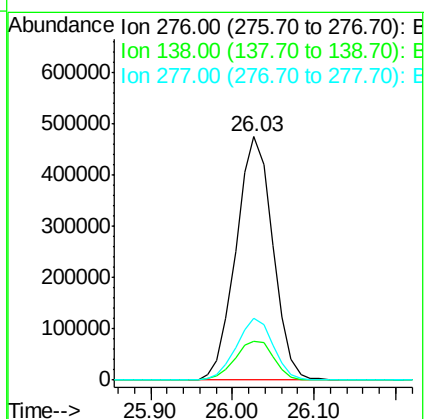
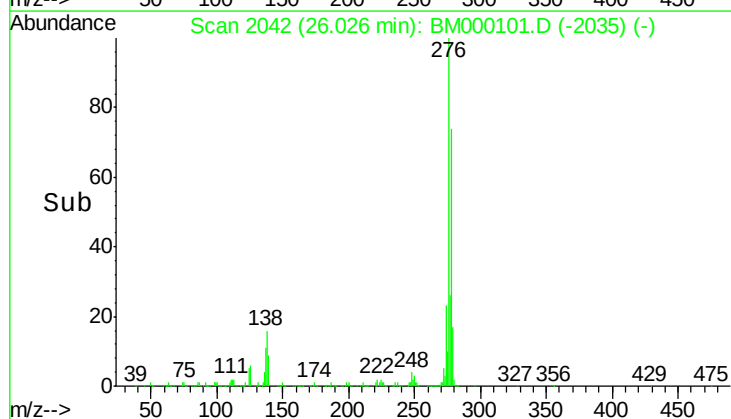
Tgt Ion:276 Resp: 1486273

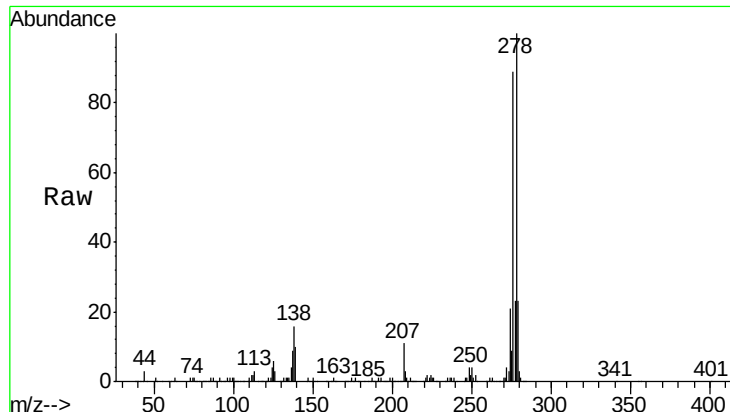
Ion Ratio Lower Upper

276 100

138 16.1 14.2 21.2

277 25.5 18.8 28.2





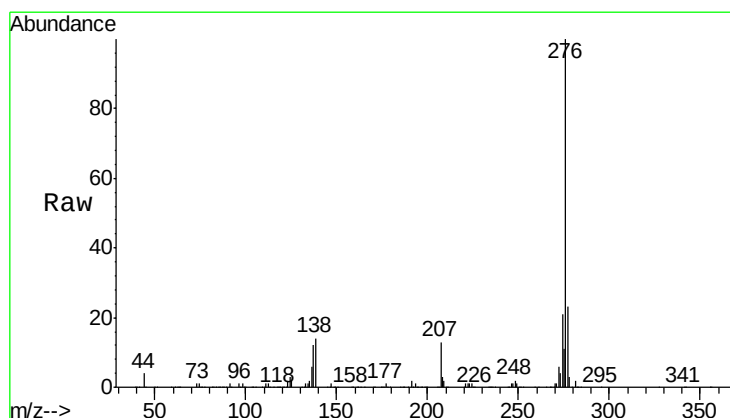
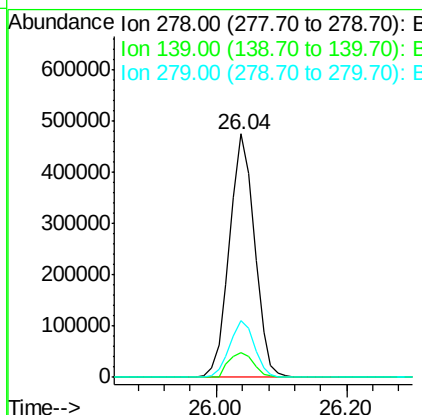
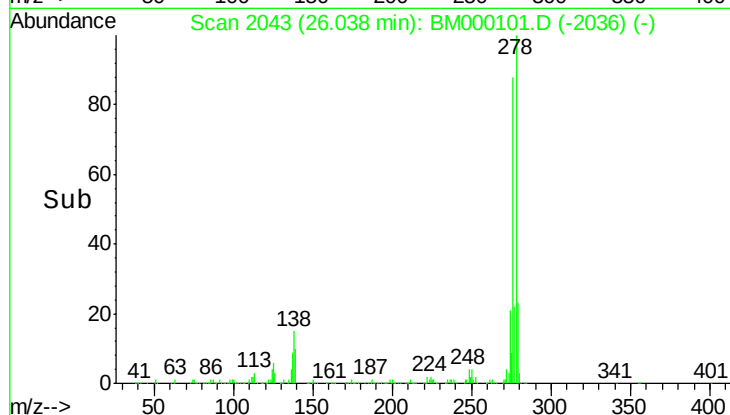
#90
Dibenzo(a,h)anthracene
Concen: 19.41 ng/ul
RT: 26.04 min Scan# 2043
Delta R.T. -0.02 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Instrument :
BNA_M
ClientSampleId :
SSTD02011

Tgt Ion:278 Resp: 1266337
Ion Ratio Lower Upper
278 100
139 10.3 10.2 15.2
279 23.2 19.2 28.8

Manual Integrations
APPROVED

TEJASKUMAR
1/6/2015 1:36:34 PM



#91
Benzo(g,h,i)perylene
Concen: 19.47 ng/ul
RT: 26.75 min Scan# 2105
Delta R.T. -0.01 min
Lab File: BM000101.D
Acq: 02 Jan 2015 09:40

Tgt Ion:276 Resp: 1239703
Ion Ratio Lower Upper
276 100
138 13.9 12.1 18.1
277 23.2 19.0 28.4

