

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071117\
 Data File : BF096644.D
 Acq On : 11 Jul 2017 15:08
 Operator : SJ/JU
 Sample : I4114-01MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Manual Integrations
 APPROVED

mohammad
 7/12/2017 4:49:40 PM

Quant Time: Jul 11 17:38:01 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	103802	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	440057	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	195561	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	344109	20.00	ng	-0.01
75) Chrysene-d12	13.83	240	217285	20.00	ng	-0.01
86) Perylene-d12	15.22	264	190362	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	911502	129.61	ng	0.00
7) Phenol-d6	6.34	99	1118948	129.42	ng	0.00
23) Nitrobenzene-d5	7.25	82	674393	92.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	231614	151.62	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	1147293	100.31	ng	-0.01
78) Terphenyl-d14	12.79	244	927812	91.24	ng	-0.01

Target Compounds					Qvalue	
2) 1,4-Dioxane	2.36	88	115683	34.690	ng	# 72
3) Pyridine	3.06	79	314859	34.411	ng	# 62
4) n-Nitrosodimethylamine	3.00	42	206925	45.818	ng	# 80
6) Aniline	6.35	93	376723	33.712	ng	# 1
8) 2-Chlorophenol	6.47	128	347037	46.273	ng	# 95
9) Benzaldehyde	6.23	77	222661	41.150	ng	# 99
10) Phenol	6.35	94	446485	45.330	ng	# 83
11) bis(2-Chloroethyl)ether	6.43	93	332184	43.640	ng	# 91
12) 1,3-Dichlorobenzene	6.63	146	357931	45.517	ng	# 98
13) 1,4-Dichlorobenzene	6.70	146	362823	46.162	ng	# 96
14) 1,2-Dichlorobenzene	6.86	146	341300	47.294	ng	# 98
15) Benzyl Alcohol	6.83	79	285576	49.412	ng	# 97
16) 2,2'-oxybis(1-Chloropropan	6.97	45	698804	45.158	ng	# 92
17) 2-Methylphenol	6.95	107	283880	47.496	ng	# 99
18) Hexachloroethane	7.20	117	131387	46.109	ng	# 81
19) n-Nitroso-di-n-propylamine	7.11	70	231931	45.029	ng	# 84
20) 3+4-Methylphenols	7.10	107	333246	49.988	ng	# 95
22) Acetophenone	7.10	105	452361	47.046	ng	# 95
24) Nitrobenzene	7.27	77	346365	45.085	ng	# 94
25) Isophorone	7.52	82	635165	44.733	ng	# 93
26) 2-Nitrophenol	7.59	139	197713	48.622	ng	# 86
27) 2,4-Dimethylphenol	7.63	122	302559	43.698	ng	# 96
28) bis(2-Chloroethoxy)methane	7.72	93	429413	45.814	ng	# 97
29) 2,4-Dichlorophenol	7.83	162	294811	49.351	ng	# 99
30) 1,2,4-Trichlorobenzene	7.92	180	271338	48.152	ng	# 97
31) Naphthalene	7.99	128	999240	48.099	ng	# 100
32) Benzoic acid	7.71	122	20250	3.482	ng	# 86
33) 4-Chloroaniline	8.04	127	230115	26.667	ng	# 96
34) Hexachlorobutadiene	8.12	225	141057	48.804	ng	# 97
35) Caprolactam	8.42	113	102381m	49.701	ng	# 89
36) 4-Chloro-3-methylphenol	8.53	107	311165	47.075	ng	# 98
37) 2-Methylnaphthalene	8.68	142	686575	51.918	ng	# 99
39) 1,2,4,5-Tetrachlorobenzene	8.85	216	234925	46.265	ng	# 99
40) Hexachlorocyclopentadiene	8.84	237	216830	87.822	ng	# 99

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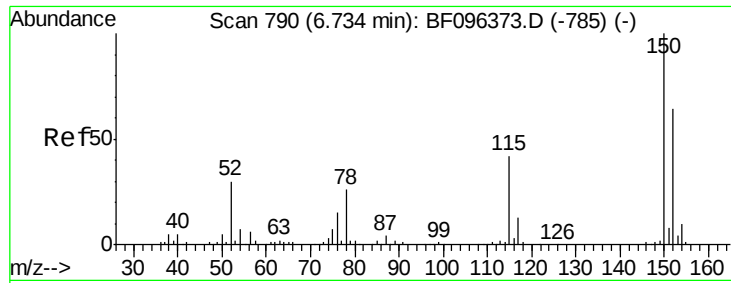
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.96	196	186297	46.378	ng	99
43) 2,4,5-Trichlorophenol	9.00	196	195738	49.283	ng	98
45) 1,1'-Biphenyl	9.15	154	750660	44.799	ng	98
46) 2-Chloronaphthalene	9.17	162	587215	47.025	ng	# 93
47) 2-Nitroaniline	9.26	65	216701	47.693	ng	94
48) Acenaphthylene	9.59	152	950350	48.030	ng	99
49) Dimethylphthalate	9.46	163	871028	59.664	ng	99
50) 2,6-Dinitrotoluene	9.51	165	159443	49.389	ng	# 85
51) Acenaphthene	9.76	154	547503	44.890	ng	99
52) 3-Nitroaniline	9.67	138	132386	32.878	ng	89
53) 2,4-Dinitrophenol	9.79	184	75080	43.787	ng	# 69
54) Dibenzofuran	9.93	168	806978	50.114	ng	99
55) 4-Nitrophenol	9.85	139	281753	84.423	ng	# 66
56) 2,4-Dinitrotoluene	9.92	165	207530	50.763	ng	# 78
57) Fluorene	10.27	166	594151	52.243	ng	99
58) 2,3,4,6-Tetrachlorophenol	10.05	232	150654	54.825	ng	98
59) Diethylphthalate	10.15	149	680358	49.305	ng	99
60) 4-Chlorophenyl-phenylether	10.26	204	247344	49.987	ng	94
61) 4-Nitroaniline	10.29	138	186846	51.033	ng	91
62) Azobenzene	10.42	77	649438	48.673	ng	92
64) 4,6-Dinitro-2-methylphenol	10.33	198	98000	41.295	ng	# 73
65) n-Nitrosodiphenylamine	10.38	169	570262	47.232	ng	99
66) 4-Bromophenyl-phenylether	10.75	248	162216	48.426	ng	95
67) Hexachlorobenzene	10.82	284	171977	46.900	ng	95
68) Atrazine	10.91	200	166252	48.198	ng	94
69) Pentachlorophenol	11.02	266	171697	79.003	ng	99
70) Phenanthrene	11.23	178	900024	48.384	ng	98
71) Anthracene	11.27	178	921947	48.637	ng	99
72) Carbazole	11.43	167	902795	47.357	ng	98
73) Di-n-butylphthalate	11.77	149	1056678	45.763	ng	99
74) Fluoranthene	12.41	202	892476	48.935	ng	98
76) Benzidine	12.53	184	399319	38.300	ng	# 92
77) Pyrene	12.63	202	915436	52.488	ng	99
79) Butylbenzylphthalate	13.26	149	445933	50.509	ng	# 80
80) Benzo(a)anthracene	13.82	228	626336	49.778	ng	98
81) 3,3'-Dichlorobenzidine	13.78	252	173247	33.523	ng	97
82) Chrysene	13.86	228	645943	49.022	ng	100
83) Bis(2-ethylhexyl)phthalate	13.83	149	499181	50.652	ng	# 100
84) Di-n-octyl phthalate	14.43	149	936228	48.241	ng	95
85) Indeno(1,2,3-cd)pyrene	16.57	276	590802	56.803	ng	99
87) Benzo(b)fluoranthene	14.83	252	606545	50.850	ng	97
88) Benzo(k)fluoranthene	14.86	252	477845	44.785	ng	96
89) Benzo(a)pyrene	15.17	252	522280	49.044	ng	99
90) Dibenzo(a,h)anthracene	16.59	278	475927	56.808	ng	98
91) Benzo(g,h,i)perylene	16.98	276	517824	59.648	ng	100

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



#1

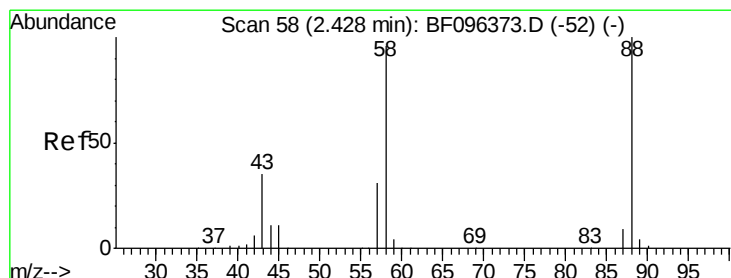
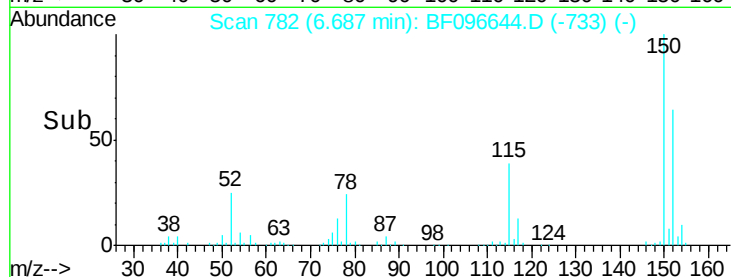
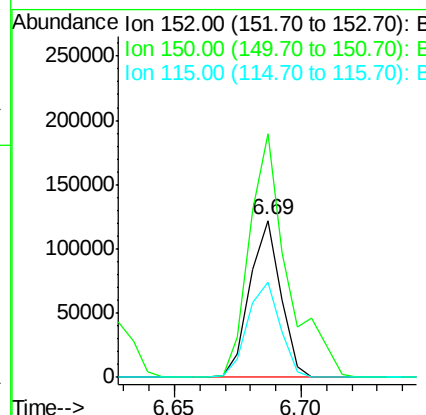
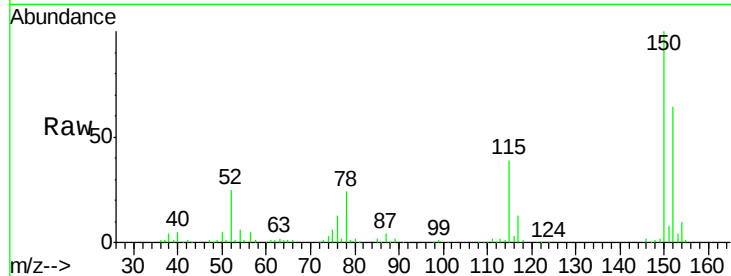
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.4	126.2	189.2
115	60.4	52.2	78.2

Manual Integrations
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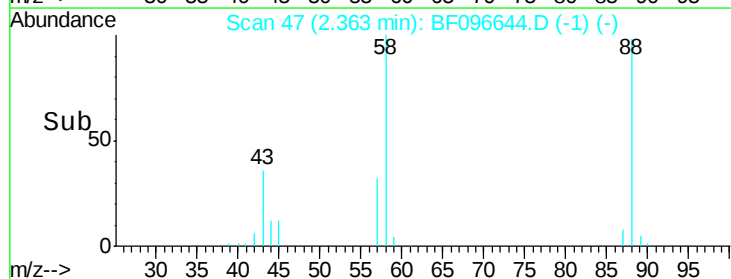
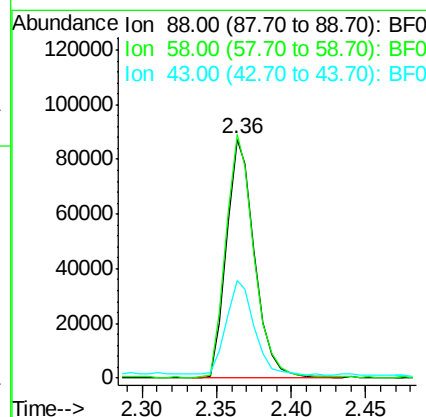
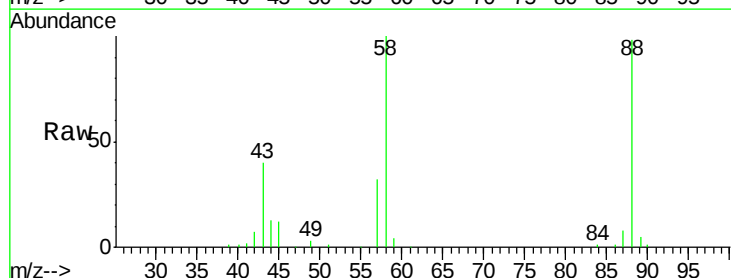
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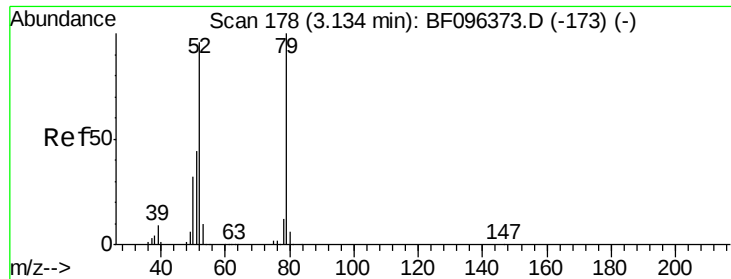


#2

1,4-Dioxane
Concen: 34.690 ng
RT: 2.36 min Scan# 47
Delta R.T. 0.00 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	103.4	61.4	92.0#
43	39.3	23.4	35.0#





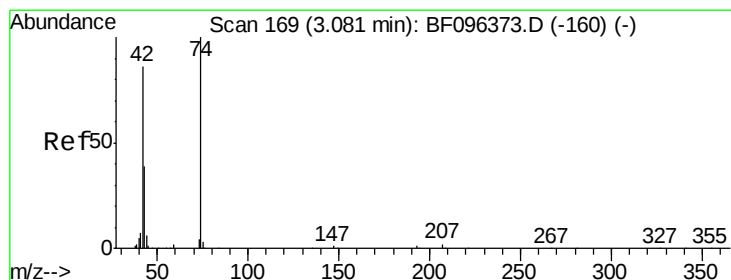
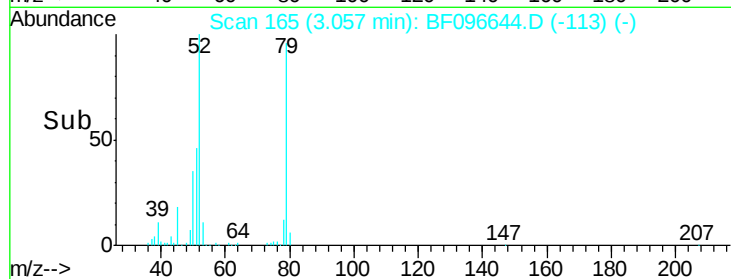
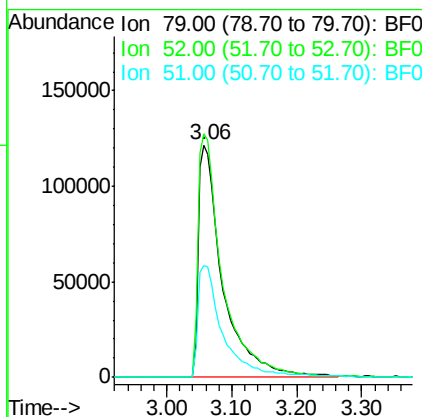
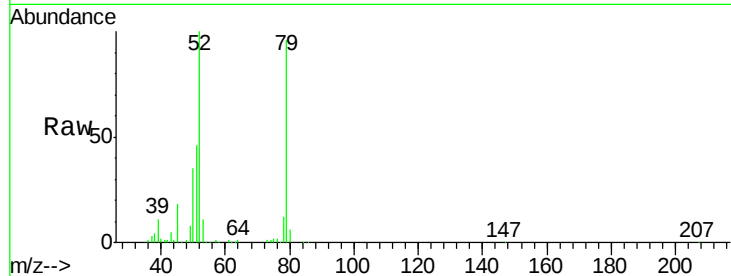
#3
 Pyridine
 Concen: 34.411 ng
 RT: 3.06 min Scan# 165
 Delta R.T. 0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
79	100		
52	104.7	54.8	82.2#
51	48.3	27.0	40.4#

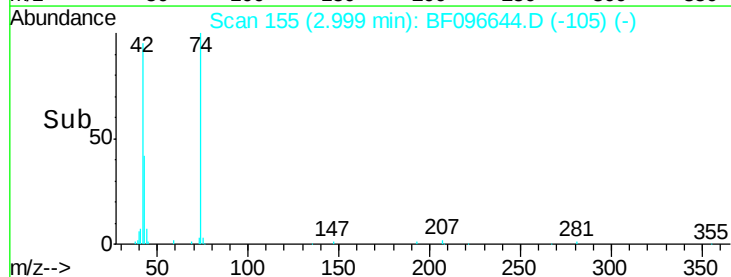
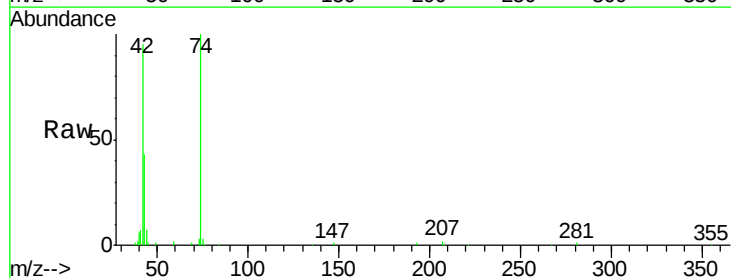
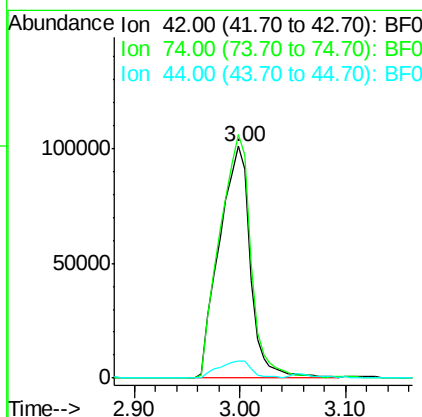
Manual Integrations
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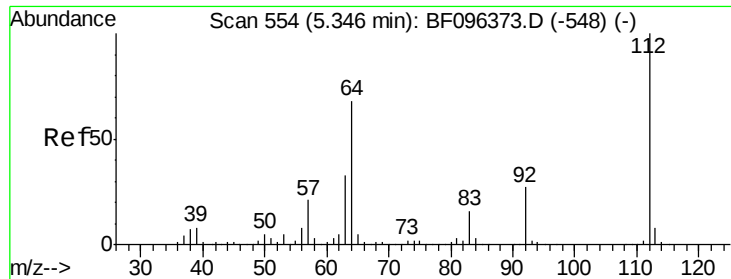
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#4
 n-Nitrosodimethylamine
 Concen: 45.818 ng
 RT: 3.00 min Scan# 155
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
42	100		
74	105.0	103.9	155.9
44	7.5	5.7	8.5





#5

2-Fluorophenol

Concen: 129.607 ng

RT: 5.30 min Scan# 547

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

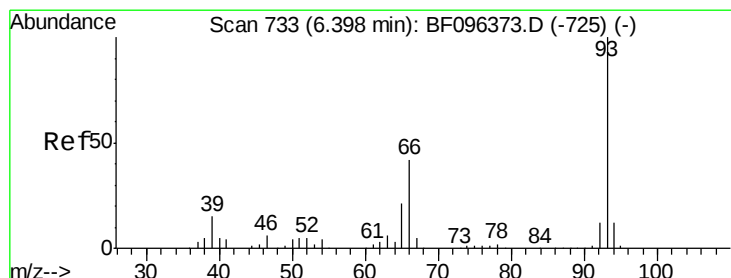
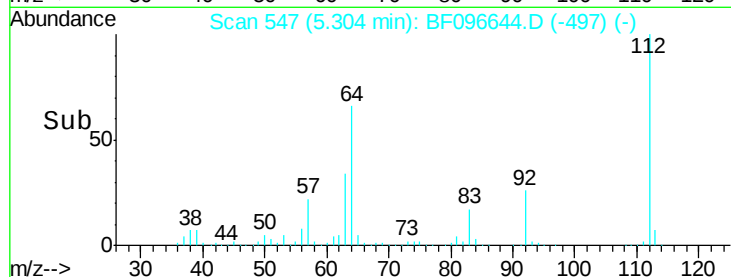
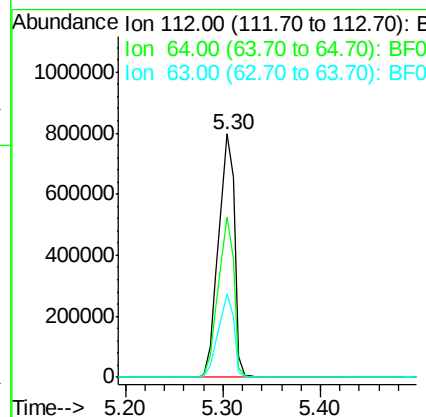
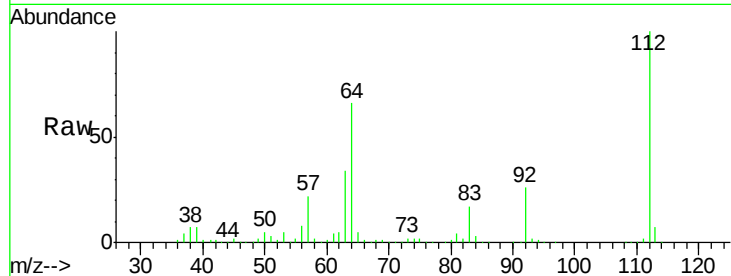
ClientSampleId :

NAA-SANDMSD

Tgt Ion:	112	Resp:	911502
Ion Ratio	Lower	Upper	
112	100		
64	65.9	46.0	69.0
63	34.2	23.4	35.0

Manual Integrations
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#6

Aniline

Concen: 33.712 ng

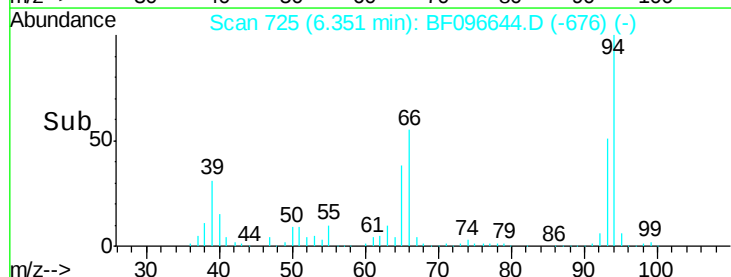
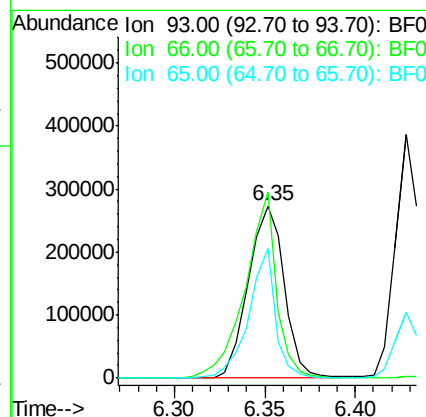
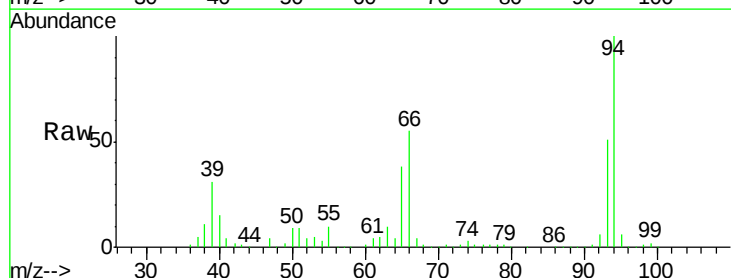
RT: 6.35 min Scan# 725

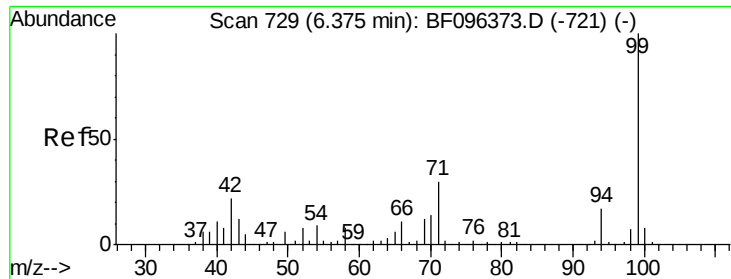
Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	93	Resp:	376723
Ion Ratio	Lower	Upper	
93	100		
66	108.3	32.9	49.3#
65	75.0	16.0	24.0#





#7

Phenol-d6

Concen: 129.420 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

Tgt Ion: 99 Resp: 1118948

Ion Ratio Lower Upper

99 100

42 21.4 13.5 20.3#

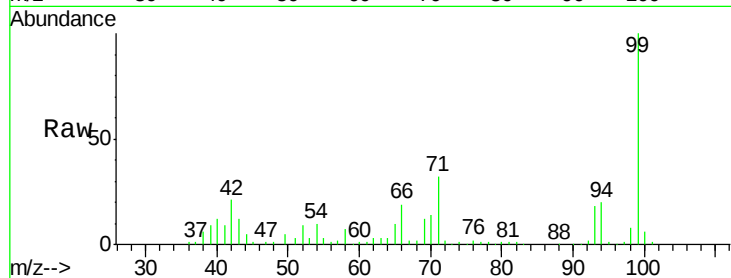
71 31.8 24.5 36.7

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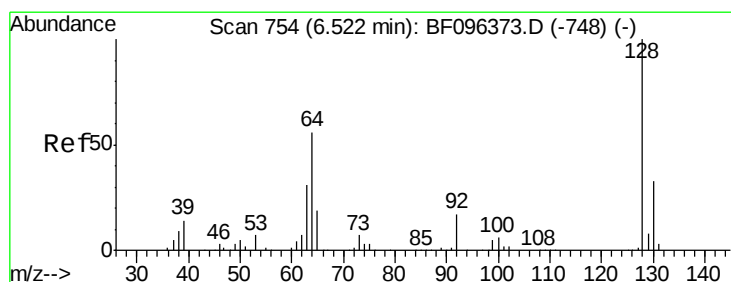
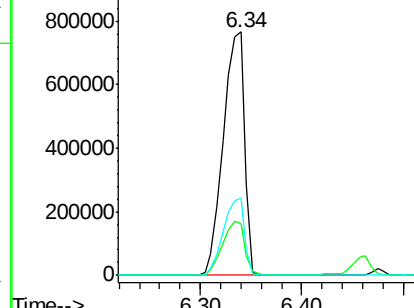
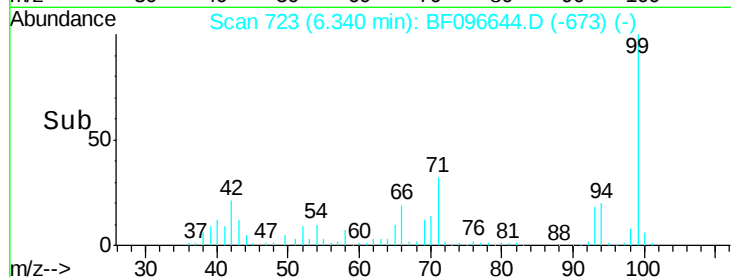
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 46.273 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

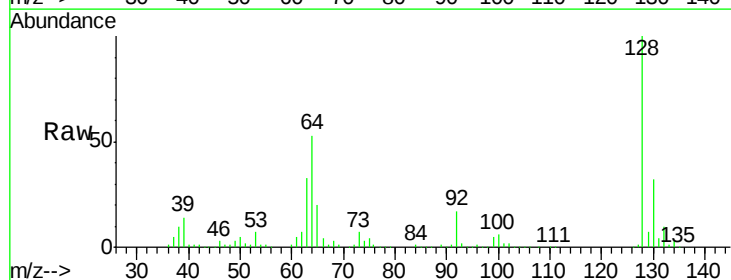
Tgt Ion: 128 Resp: 347037

Ion Ratio Lower Upper

128 100

130 31.7 12.9 52.9

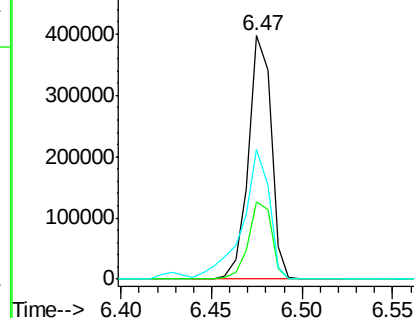
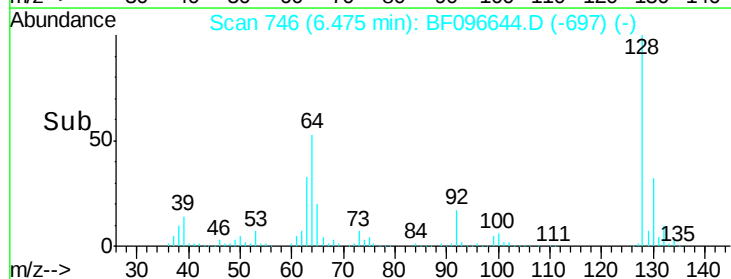
64 53.4 28.4 68.4

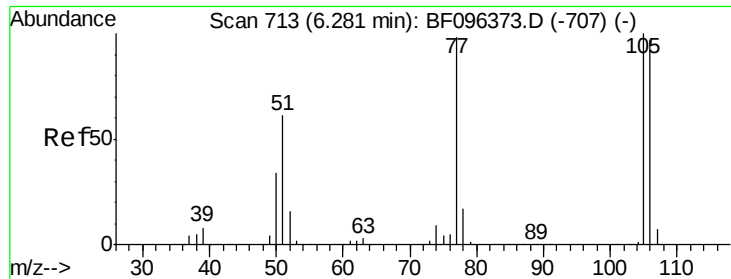


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 41.150 ng

RT: 6.23 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

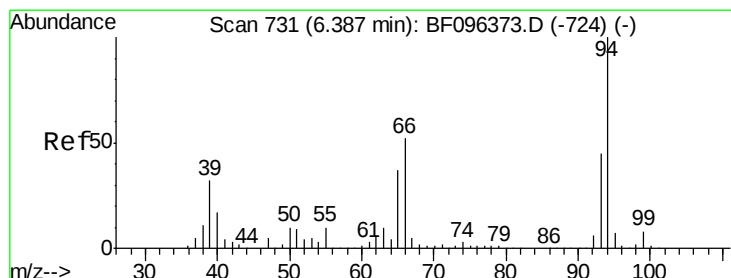
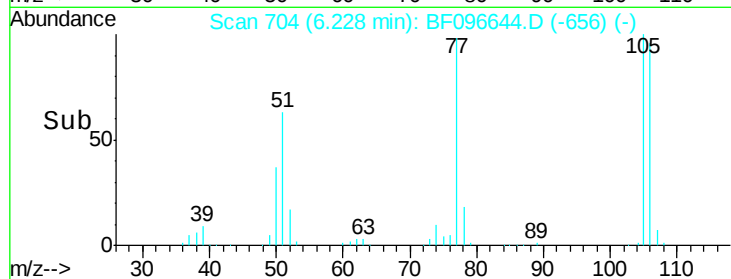
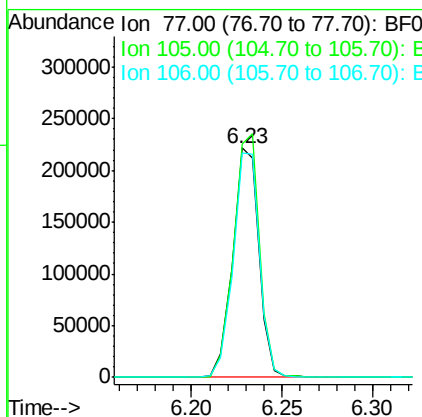
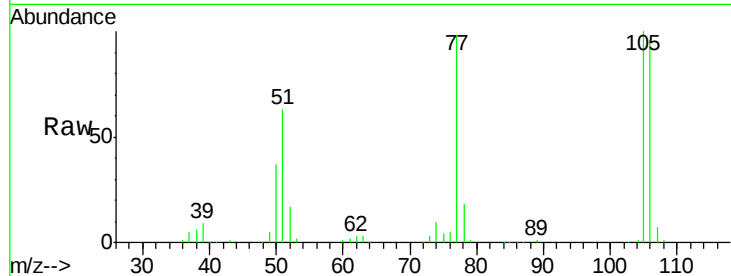
ClientSampleId :

NAA-SANDMSD

Tgt Ion:	77	Resp:	222661
Ion Ratio	Lower	Upper	
77	100		
105	102.0	83.8	123.8
106	98.1	79.1	119.1

Manual Integrations
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#10

Phenol

Concen: 45.330 ng

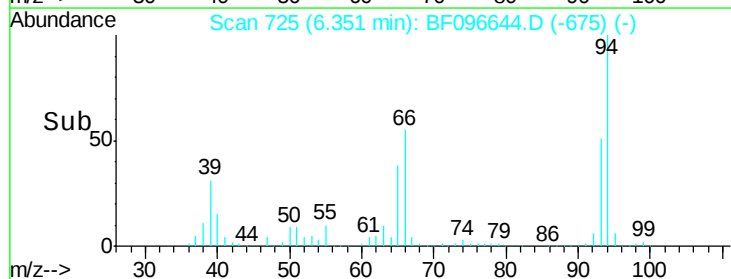
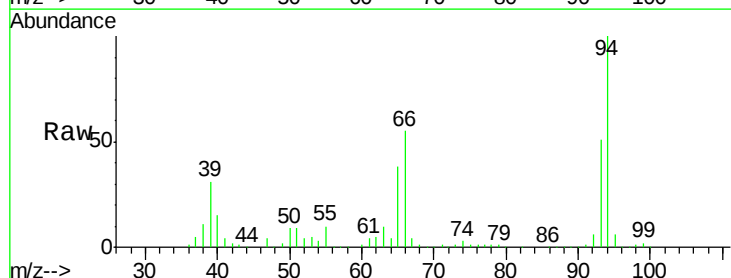
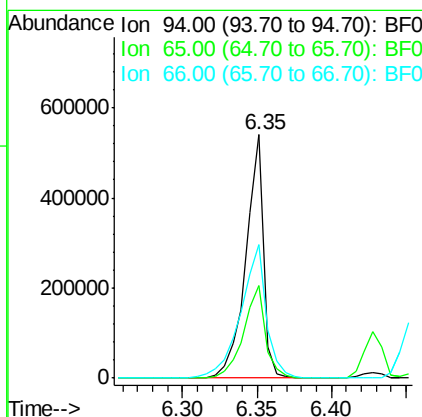
RT: 6.35 min Scan# 725

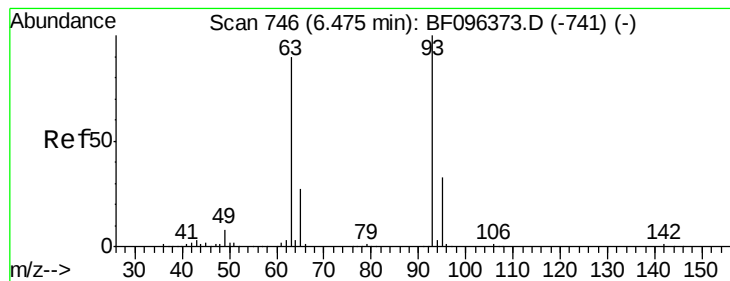
Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	94	Resp:	446485
Ion Ratio	Lower	Upper	
94	100		
65	37.9	9.9	49.9
66	54.7	23.1	63.1





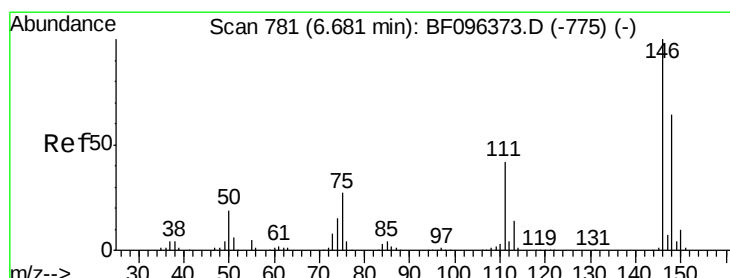
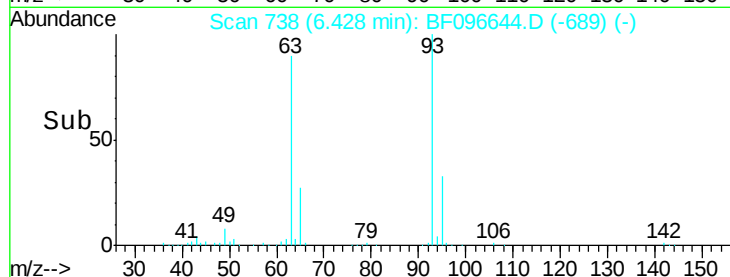
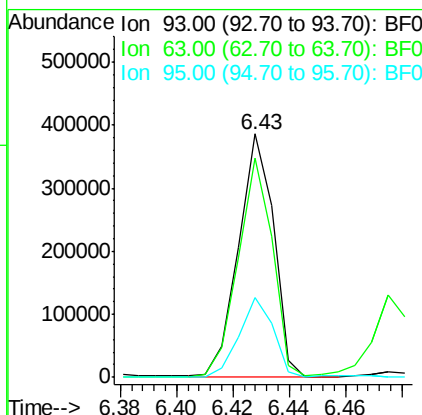
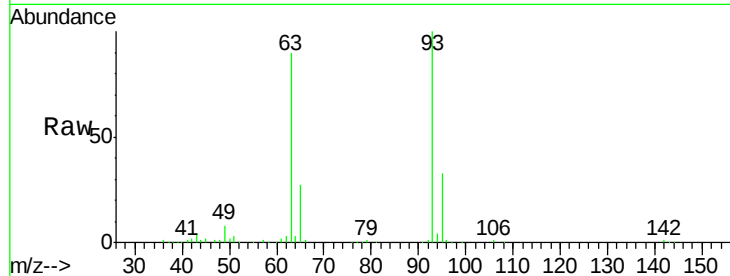
#11
bis(2-Chloroethyl)ether
Concen: 43.640 ng
RT: 6.43 min Scan# 738
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
93	100		
63	90.0	59.2	99.2
95	32.9	12.8	52.8

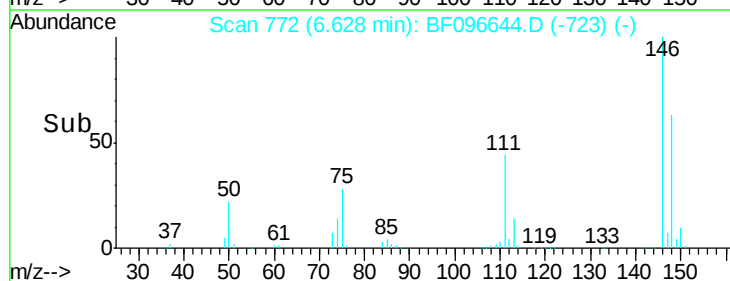
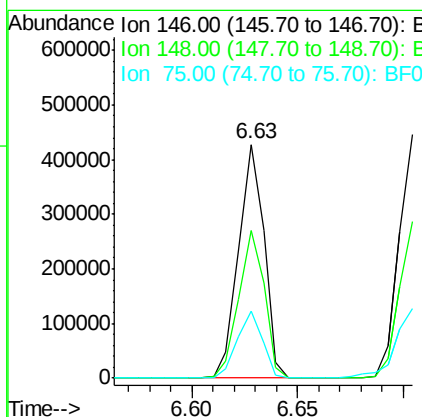
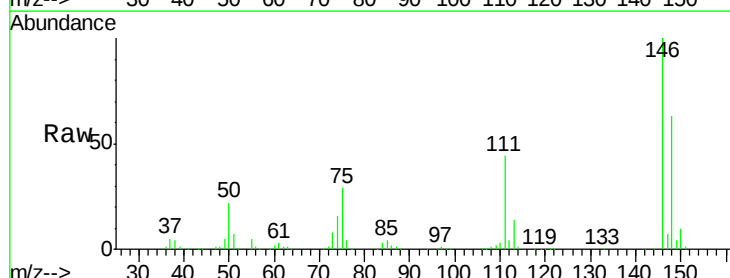
Manual Integrations
APPROVED

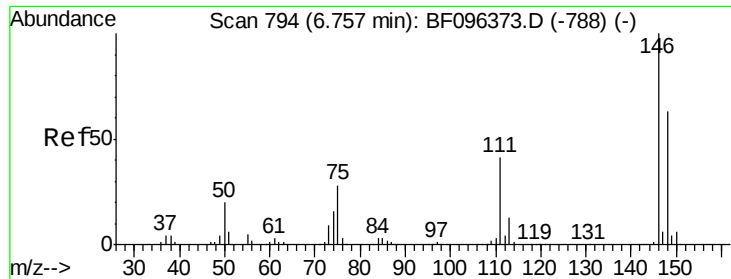
mohammad
7/12/2017 4:49:40 PM



#12
1,3-Dichlorobenzene
Concen: 45.517 ng
RT: 6.63 min Scan# 772
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.8	77.6
75	28.9	23.1	34.7





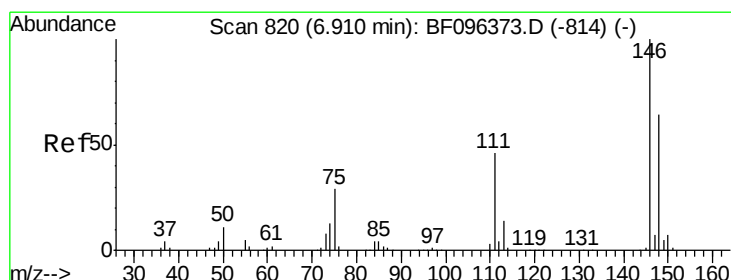
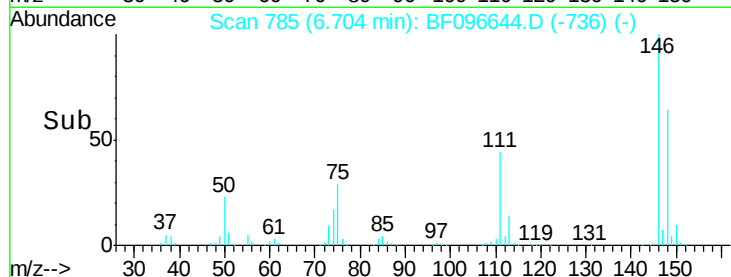
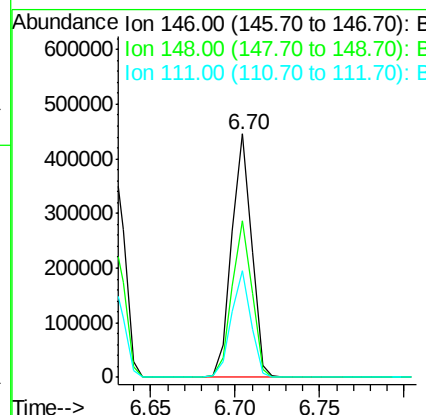
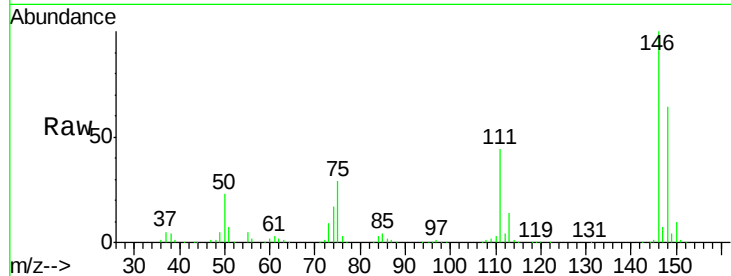
#13
 1,4-Dichlorobenzene
 Concen: 46.162 ng
 RT: 6.70 min Scan# 785
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.3	52.2	78.2
111	43.6	30.3	45.5

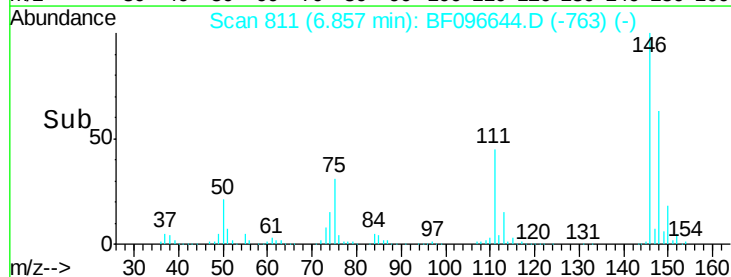
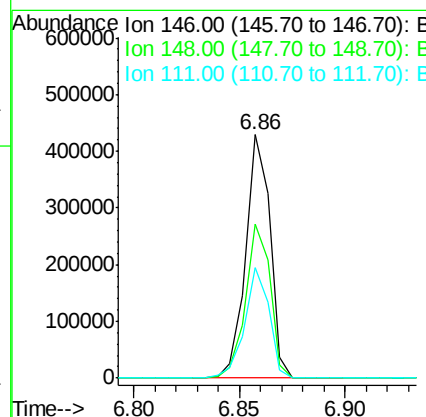
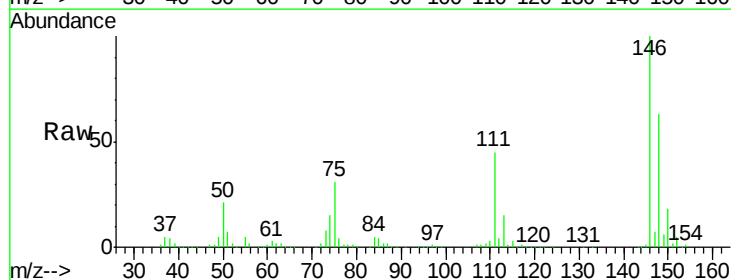
Manual Integrations
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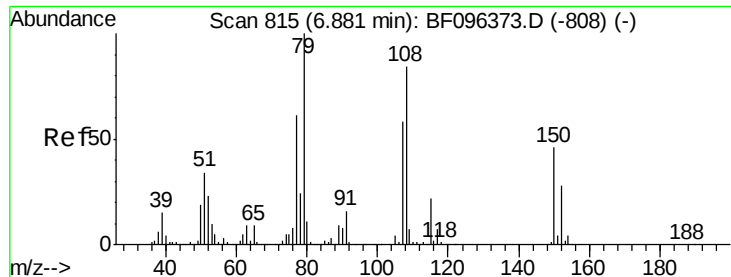
mohammad
 7/12/2017 4:49:40 PM



#14
 1,2-Dichlorobenzene
 Concen: 47.294 ng
 RT: 6.86 min Scan# 811
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.4	75.6
111	45.2	38.2	57.4





#15

Benzyl Alcohol

Concen: 49.412 ng

RT: 6.83 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

Tgt Ion: 79 Resp: 285576

Ion Ratio Lower Upper

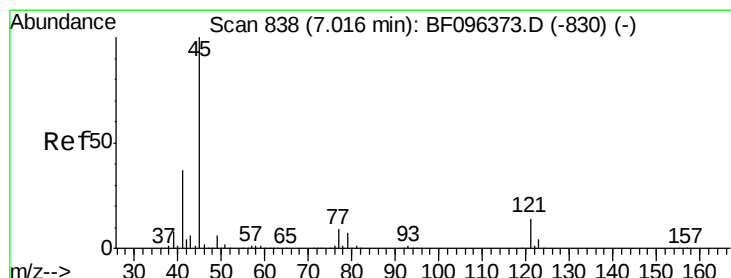
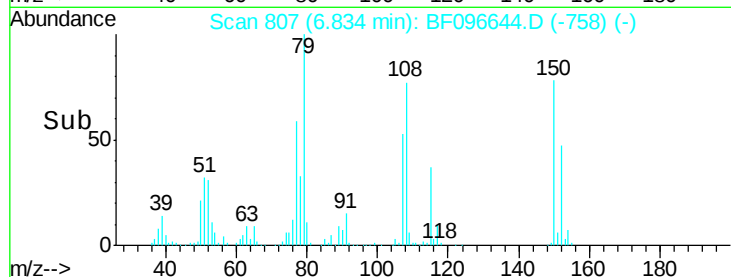
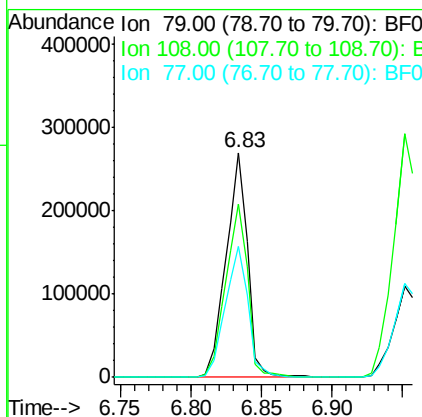
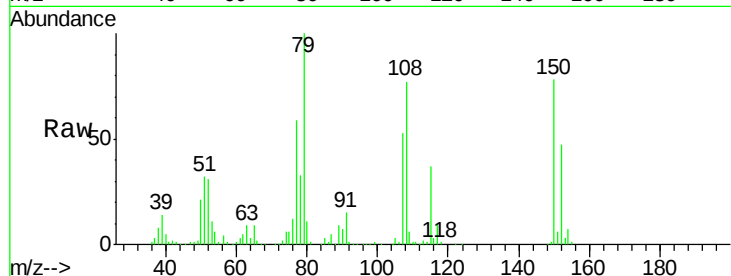
79 100

108 77.4 63.4 95.0

77 58.6 49.2 73.8

Manual Integrations
APPROVED

mohammad
7/12/2017 4:49:40 PM



#16

2,2'-oxybis(1-chloropropane)

Concen: 45.158 ng

RT: 6.97 min Scan# 830

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

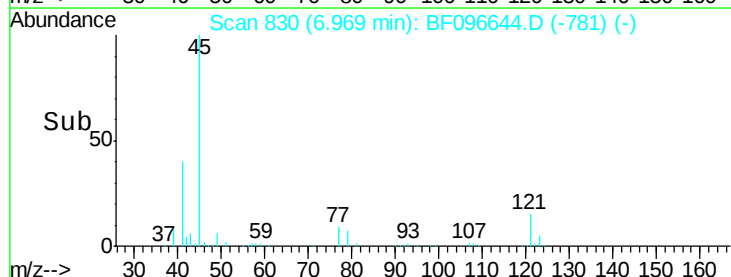
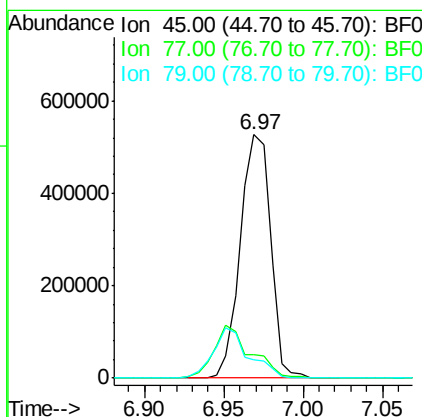
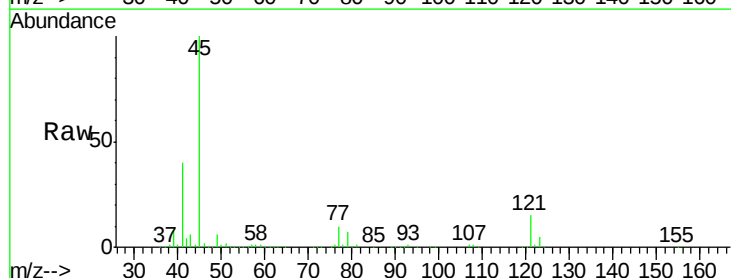
Tgt Ion: 45 Resp: 698804

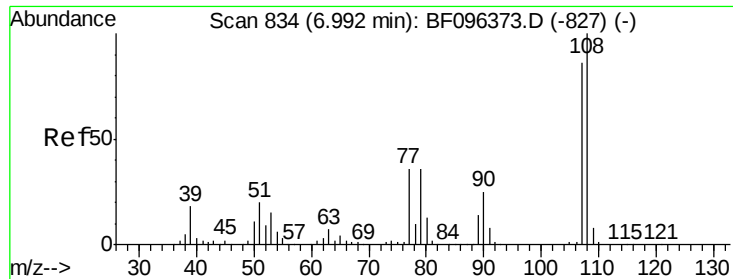
Ion Ratio Lower Upper

45 100

77 9.7 0.0 33.2

79 7.5 0.0 30.0





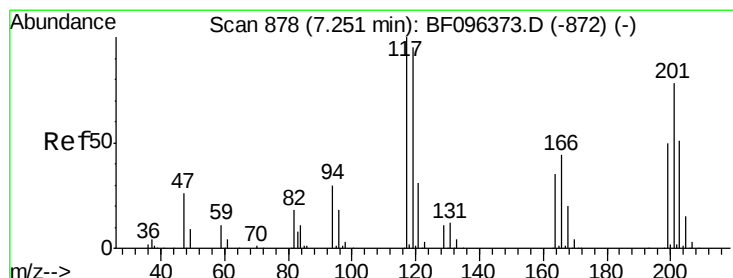
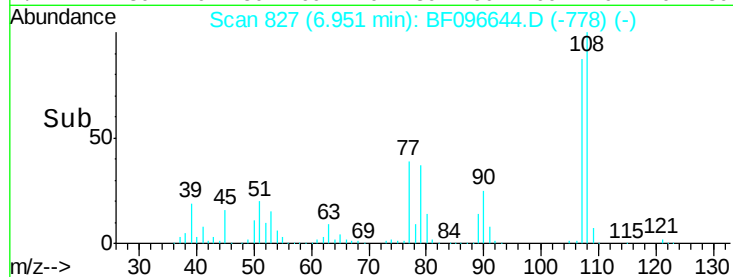
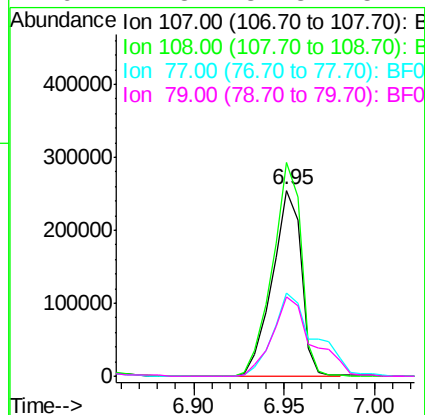
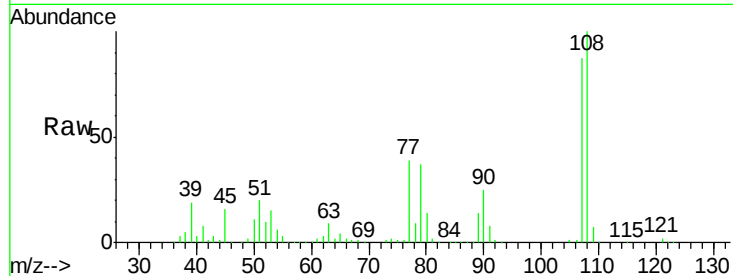
#17
2-Methylphenol
Concen: 47.496 ng
RT: 6.95 min Scan# 827
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion:	107	Resp:	283880
Ion Ratio	Lower	Upper	
107	100		
108	115.0	93.4	140.0
77	44.5	35.8	53.6
79	42.8	34.8	52.2

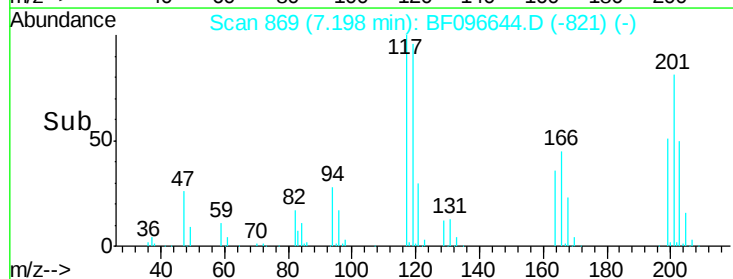
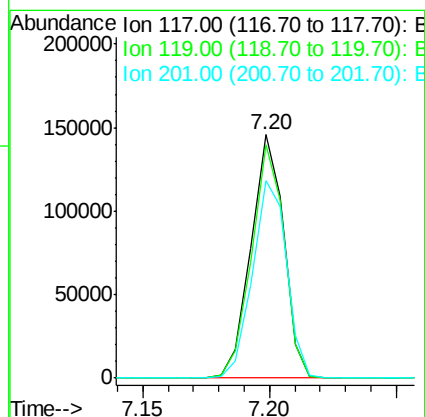
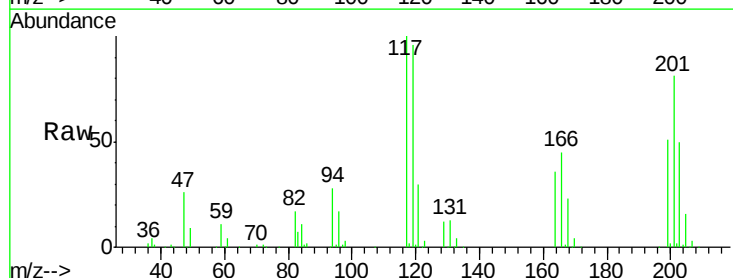
Manual Integrations
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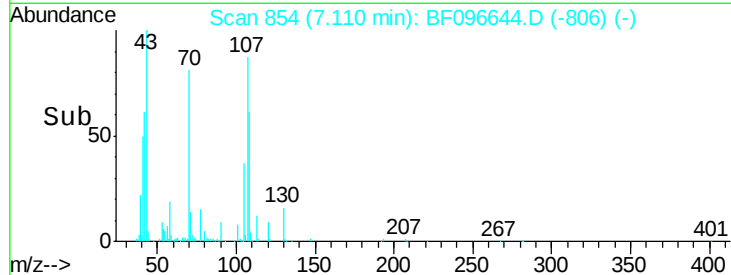
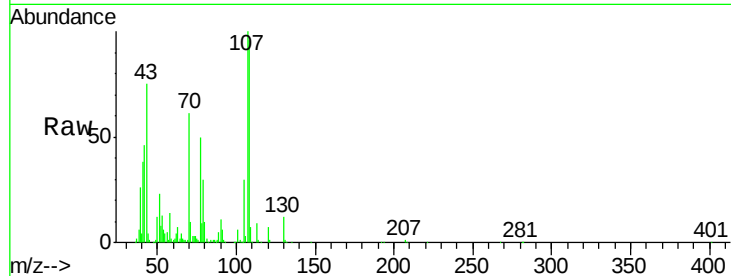
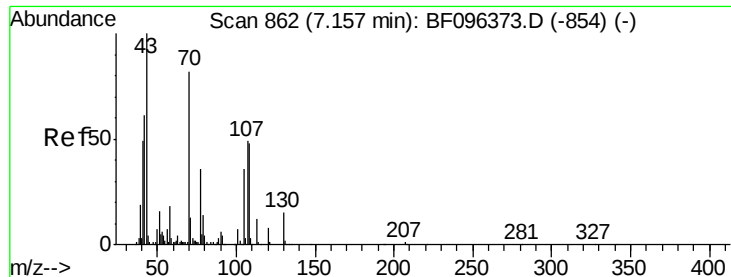
mohammad
7/12/2017 4:49:40 PM



#18
Hexachloroethane
Concen: 46.109 ng
RT: 7.20 min Scan# 869
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

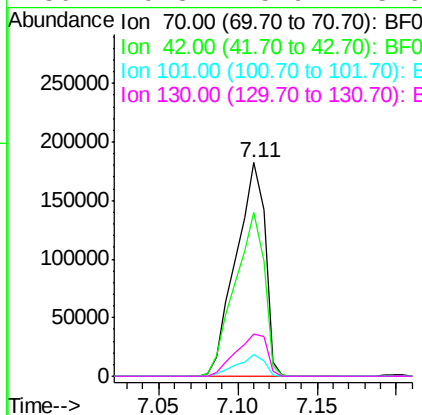
Tgt Ion:	117	Resp:	131387
Ion Ratio	Lower	Upper	
117	100		
119	95.6	77.4	116.0
201	80.9	94.6	141.8#





#19
n-Nitroso-di-n-propylamine
Concen: 45.029 ng
RT: 7.11 min Scan# 854
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

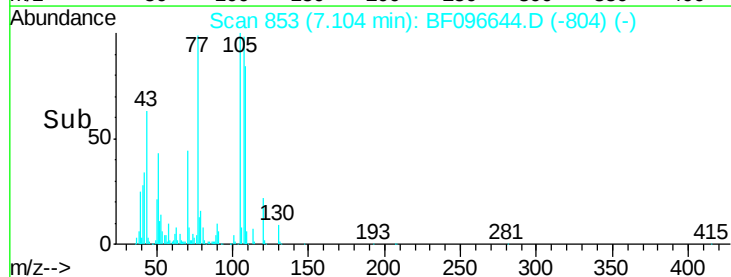
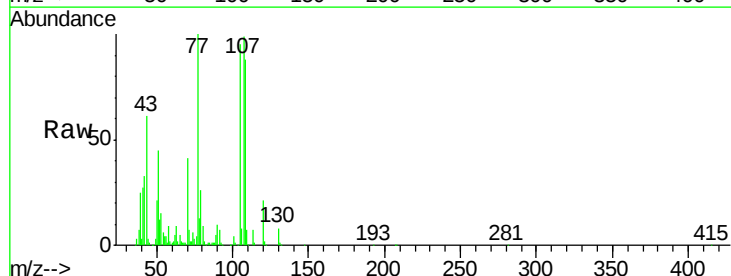
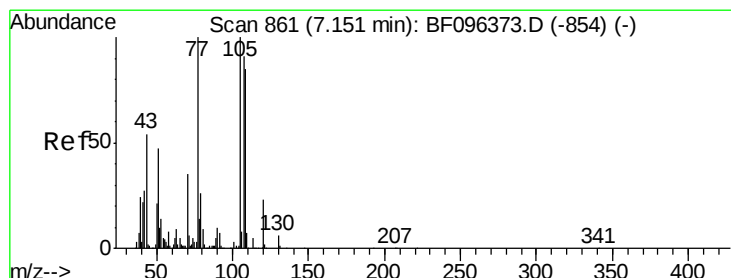
Tgt Ion	Ratio	Lower	Upper
70	100		
42	76.6	47.2	70.8#
101	9.9	7.2	10.8
130	19.8	15.9	23.9



Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

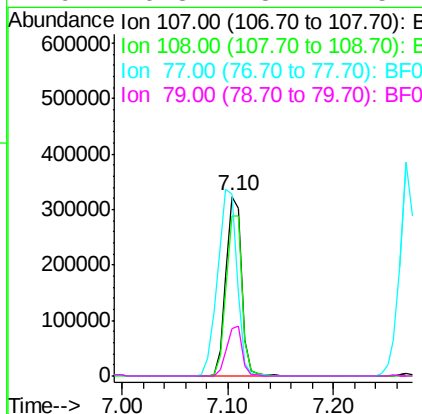
Manual Integrations
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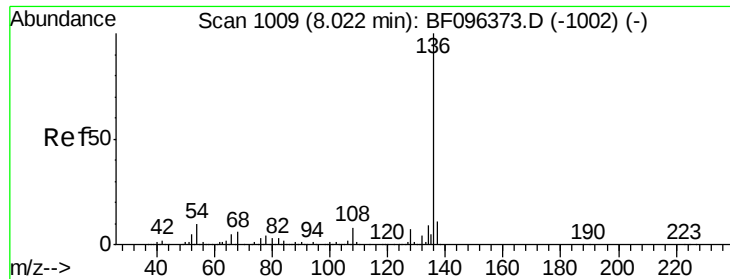
mohammad
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#20
3+4-Methylphenols
Concen: 49.988 ng
RT: 7.10 min Scan# 853
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
107	100		
108	89.0	71.0	111.0
77	101.4	90.5	130.5
79	26.3	8.4	48.4





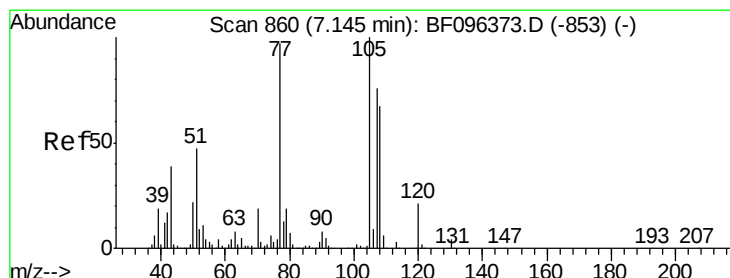
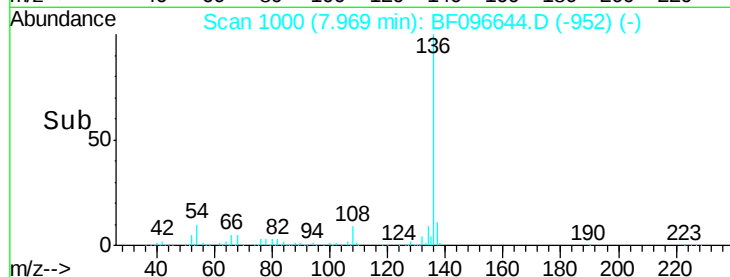
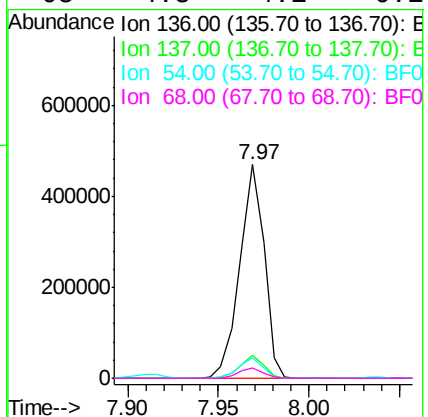
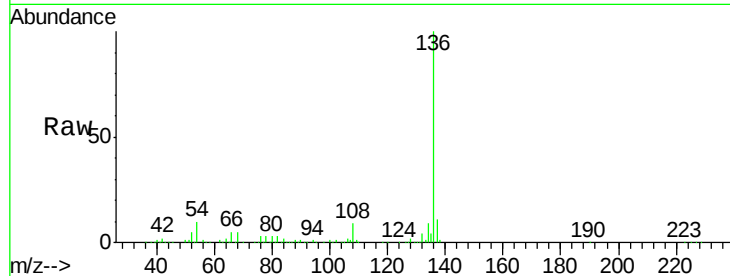
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1000
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	440057		
137	10.8	8.5	12.7	
54	9.6	4.9	7.3	
68	4.8	4.1	6.1	

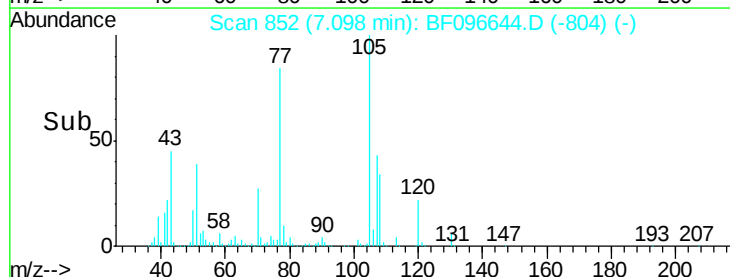
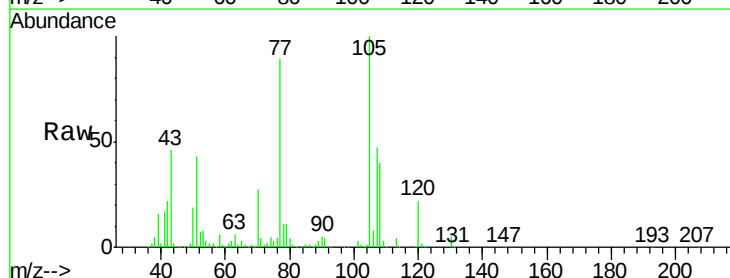
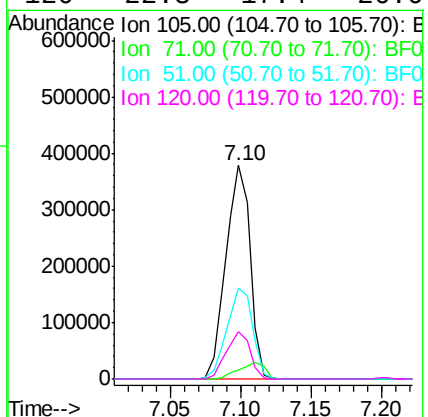
Manual Integrations
APPROVED

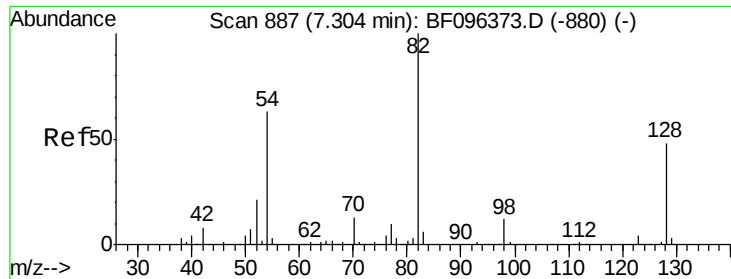
mohammad
7/12/2017 4:49:40 PM



#22
Acetophenone
Concen: 47.046 ng
RT: 7.10 min Scan# 852
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	452361		
71	4.4	2.8	4.2	
51	42.5	30.7	46.1	
120	22.3	17.4	26.0	





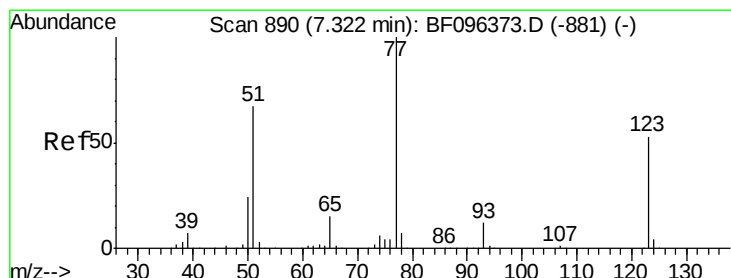
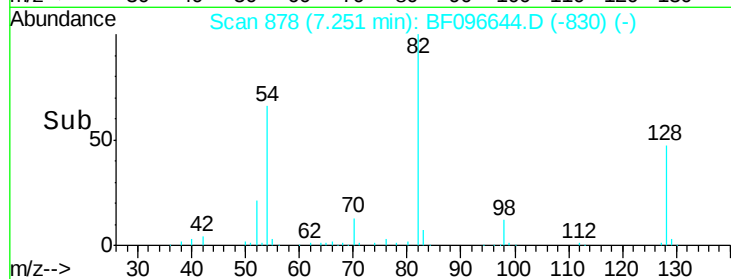
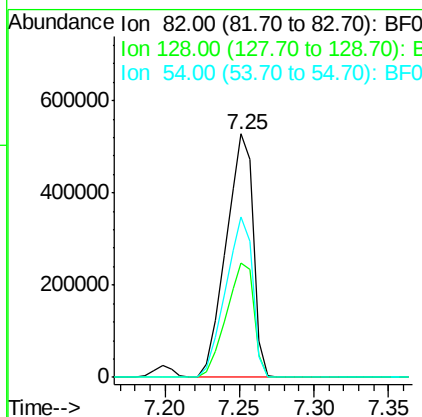
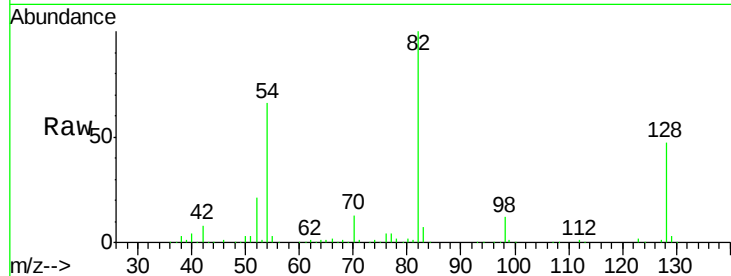
#23
 Nitrobenzene-d5
 Concen: 92.090 ng
 RT: 7.25 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.2	34.0	51.0
54	65.8	42.2	63.2

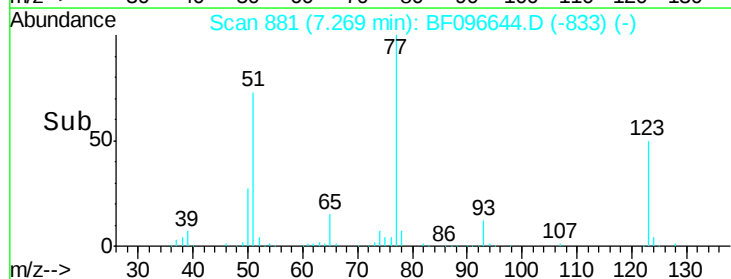
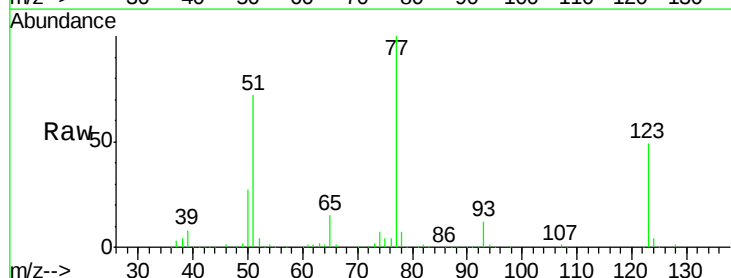
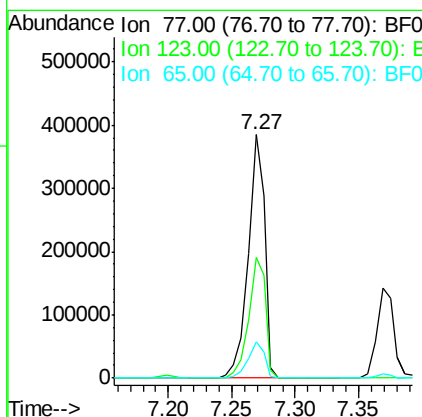
Manual Integrations
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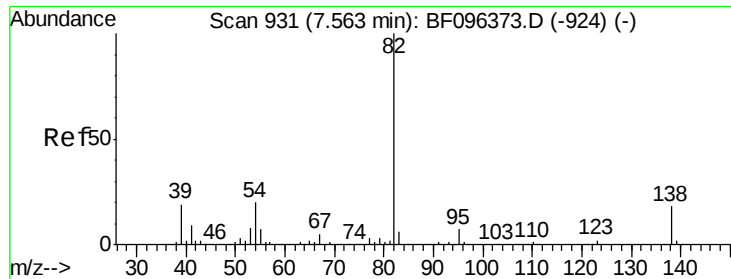
mohammad
 7/12/2017 4:49:40 PM



#24
 Nitrobenzene
 Concen: 45.085 ng
 RT: 7.27 min Scan# 881
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
77	100		
123	49.3	35.8	53.8
65	15.0	10.6	15.8





#25

Isophorone

Concen: 44.733 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

Tgt Ion: 82 Resp: 635165

Ion Ratio Lower Upper

82 100

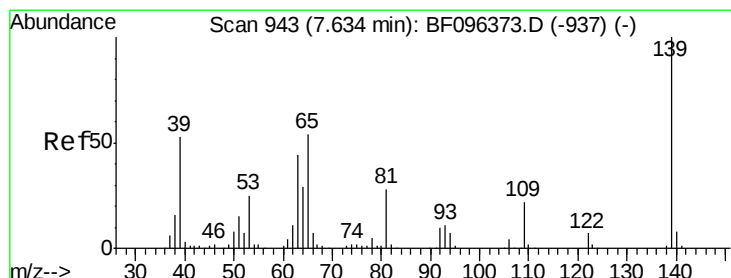
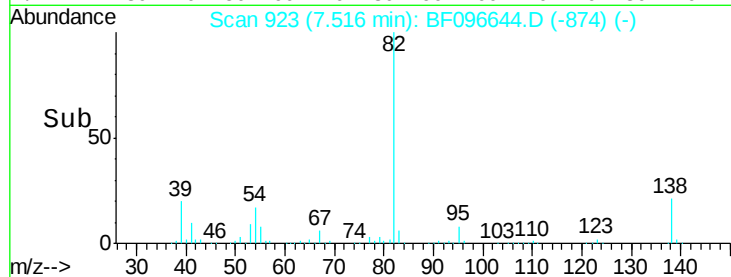
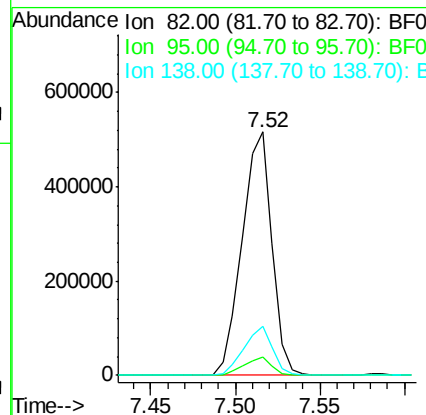
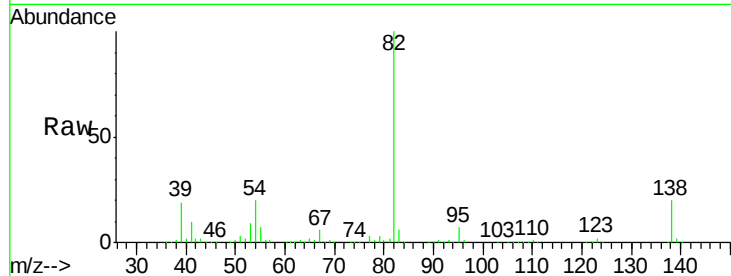
95 7.3 5.3 7.9

138 20.0 13.1 19.7#

Manual Integrations
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mohammad

7/12/2017 4:49:40 PM



#26

2-Nitrophenol

Concen: 48.622 ng

RT: 7.59 min Scan# 935

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

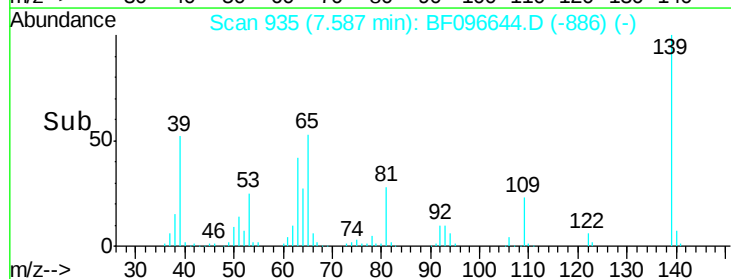
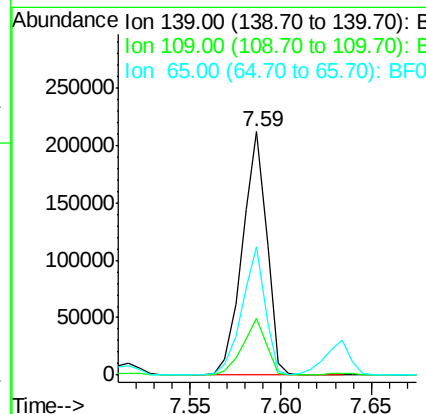
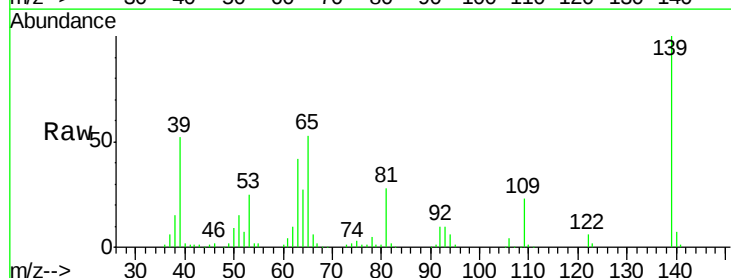
Tgt Ion: 139 Resp: 197713

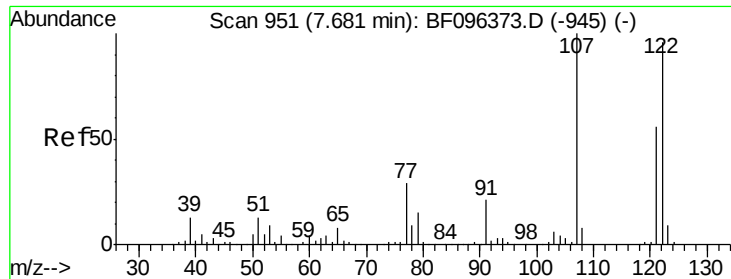
Ion Ratio Lower Upper

139 100

109 23.2 21.0 31.6

65 52.8 33.0 49.6#





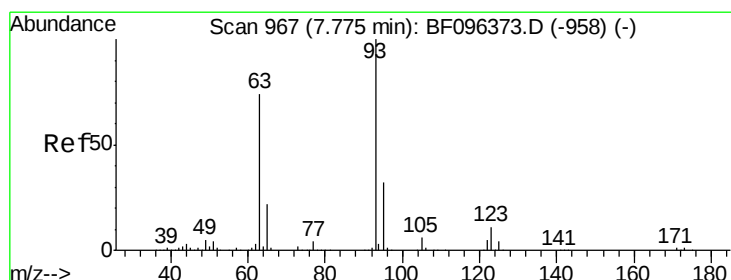
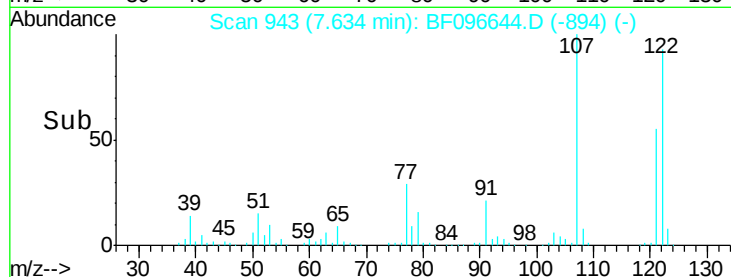
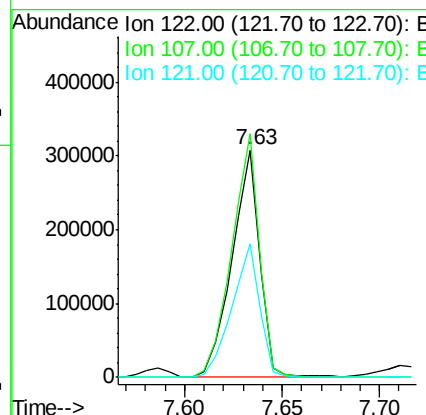
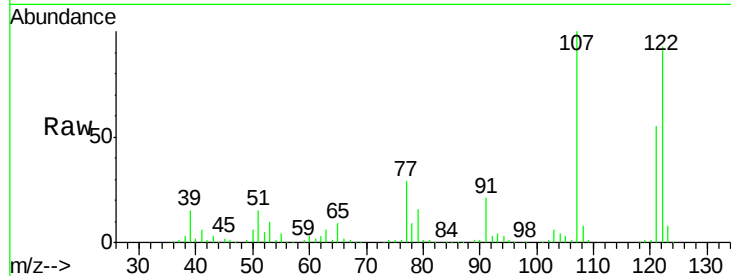
#27
2,4-Dimethylphenol
Concen: 43.698 ng
RT: 7.63 min Scan# 943
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
122	100		
107	107.1	89.2	133.8
121	58.5	45.2	67.8

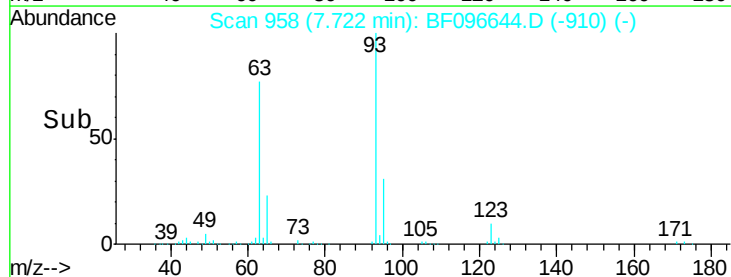
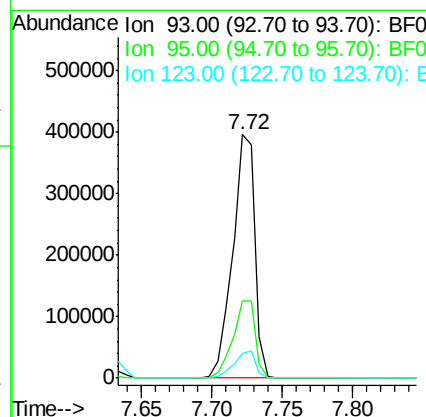
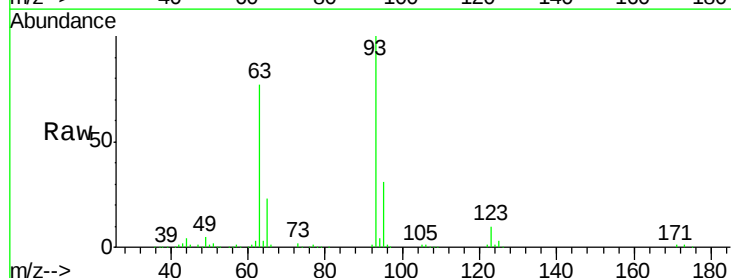
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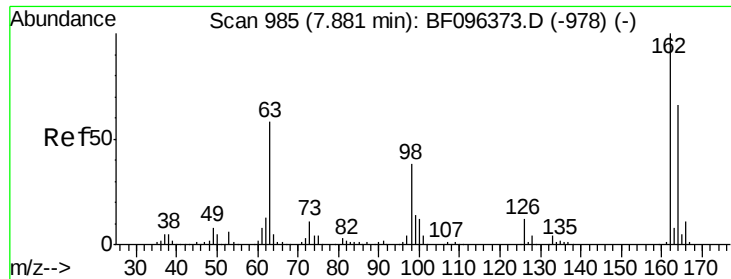
mohammad
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#28
bis(2-Chloroethoxy)methane
Concen: 45.814 ng
RT: 7.72 min Scan# 958
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
93	100		
95	31.5	26.5	39.7
123	10.4	9.0	13.4





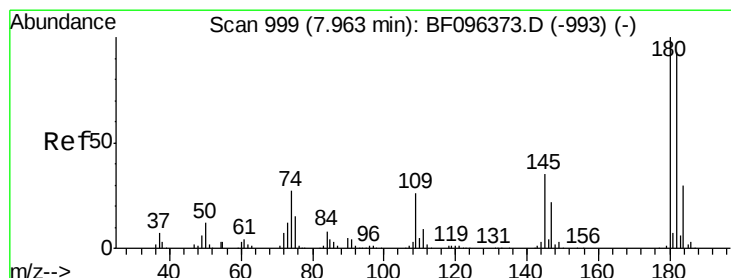
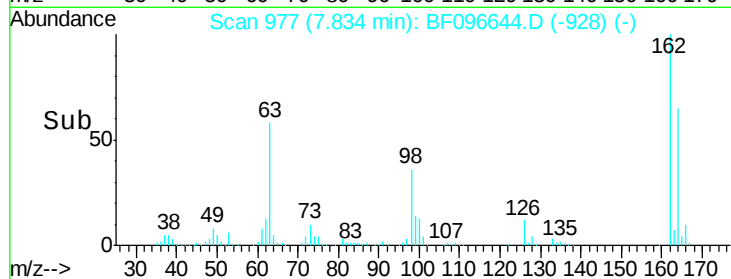
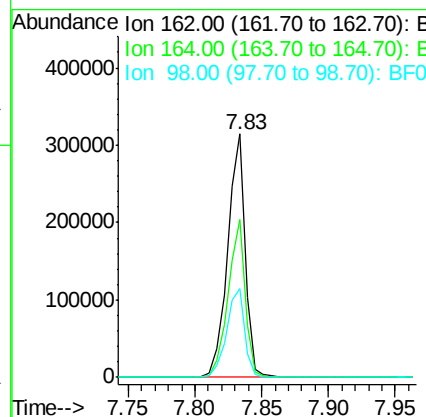
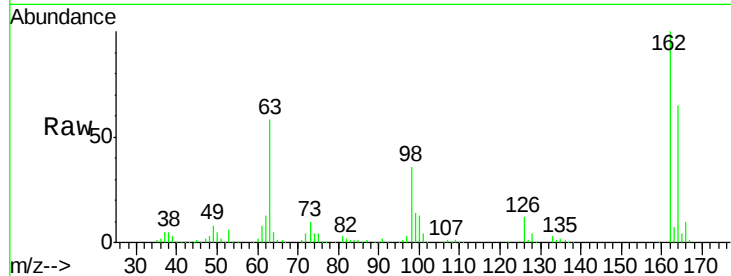
#29
2,4-Dichlorophenol
Concen: 49.351 ng
RT: 7.83 min Scan# 977
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	294811		
164	64.7	44.6	84.6	
98	36.3	14.8	54.8	

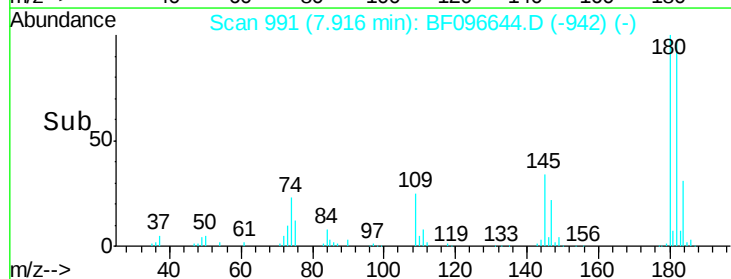
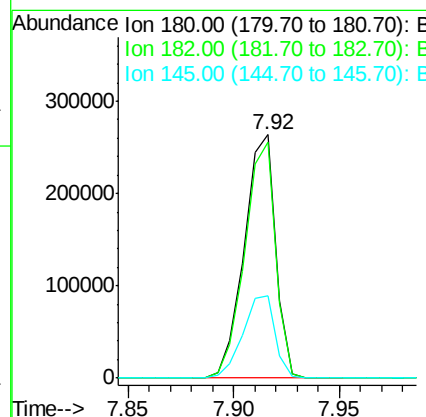
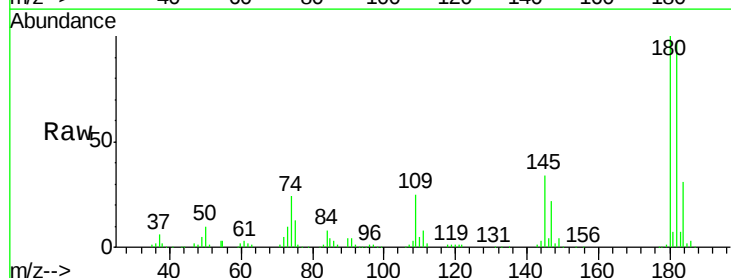
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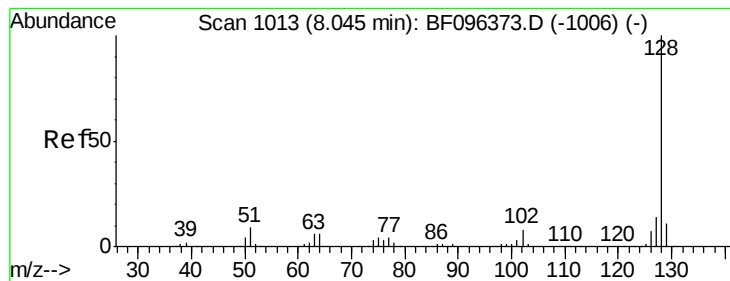
mohammad
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#30
1,2,4-Trichlorobenzene
Concen: 48.152 ng
RT: 7.92 min Scan# 991
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	271338		
182	97.1	75.8	113.6	
145	33.8	25.3	37.9	





#31

Naphthalene

Concen: 48.099 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF096644.D

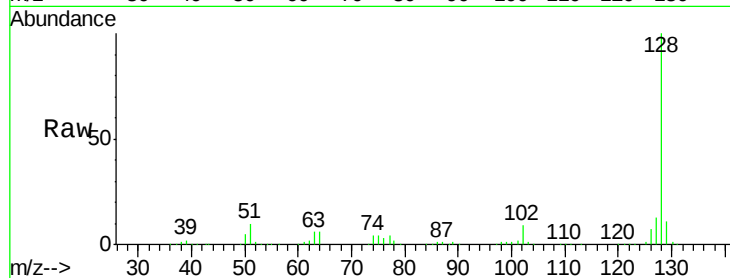
Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

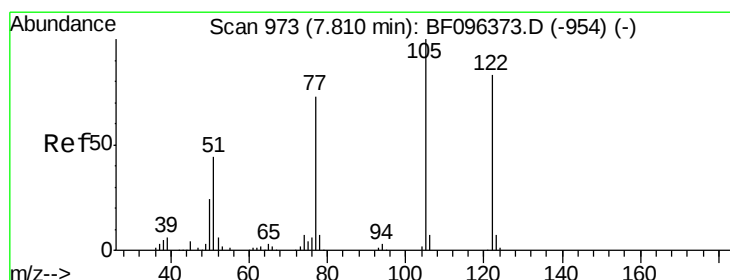
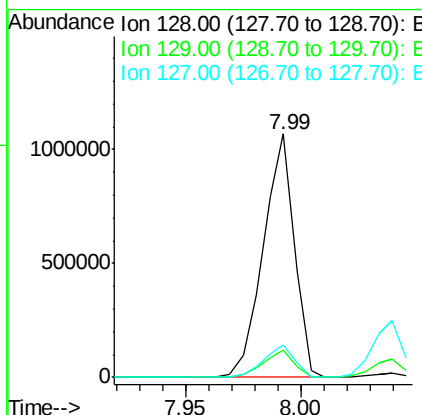
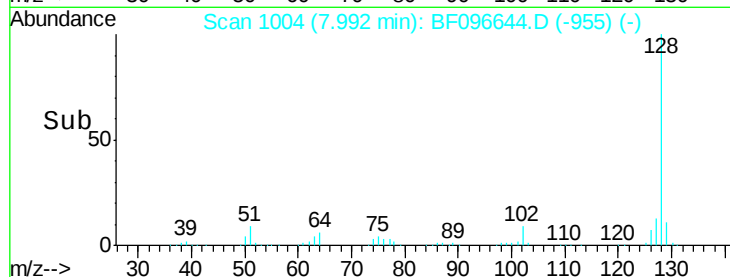
NAA-SANDMSD



Tgt Ion:	128	Resp:	999240
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.0	13.6
127	13.4	10.8	16.2

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#32

Benzoic acid

Concen: 3.482 ng

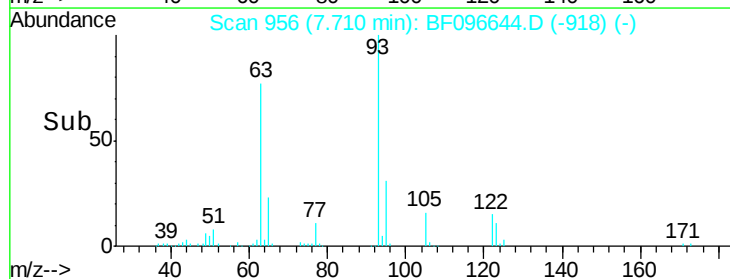
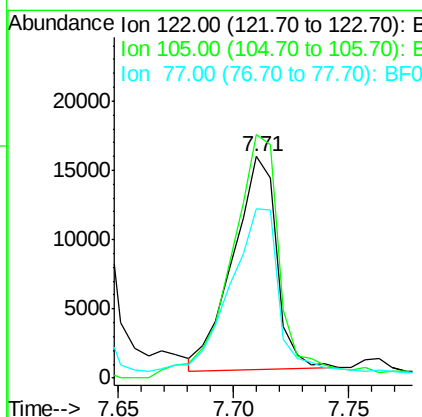
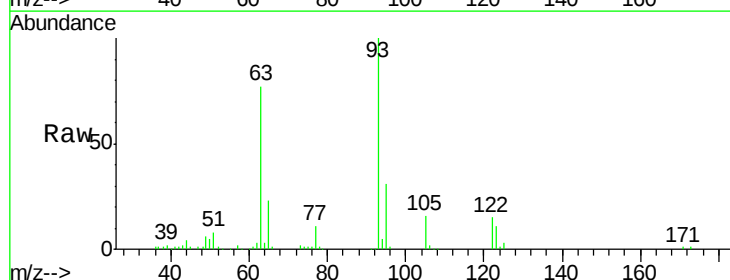
RT: 7.71 min Scan# 956

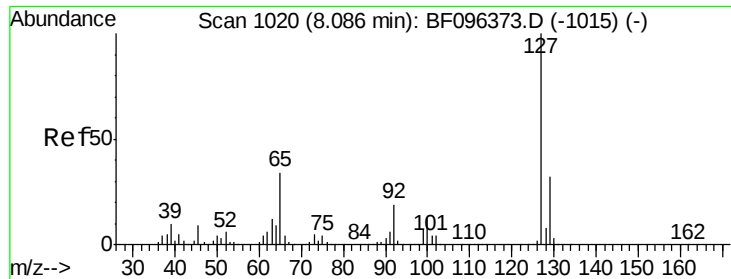
Delta R.T. -0.08 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	122	Resp:	20250
Ion Ratio	Lower	Upper	
122	100		
105	109.9	103.3	143.3
77	76.7	73.7	113.7





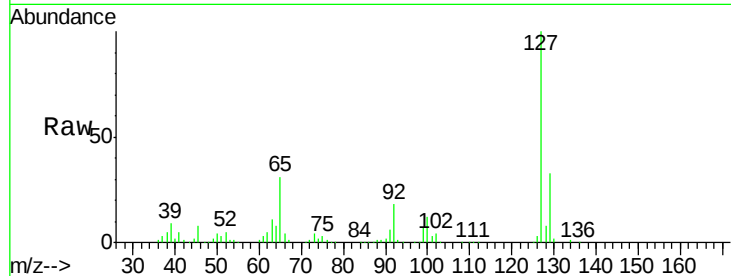
#33
4-Chloroaniline
Concen: 26.667 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

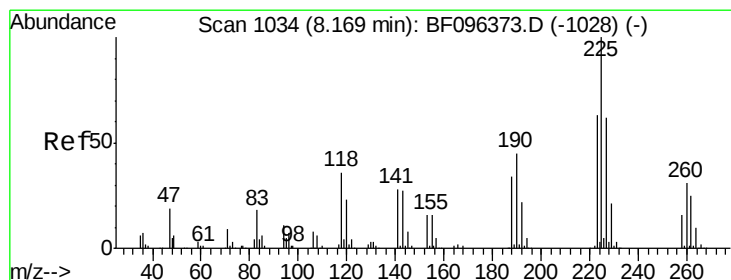
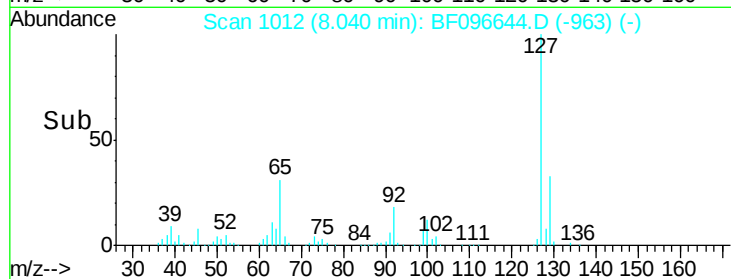
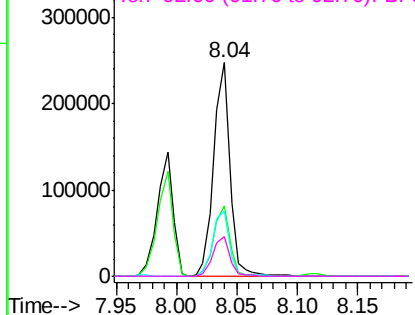
Tgt Ion	Ratio	Resp Lower	Resp Upper
127	100		
129	33.1	26.2	39.2
65	30.6	27.8	41.8
92	18.4	16.8	25.2

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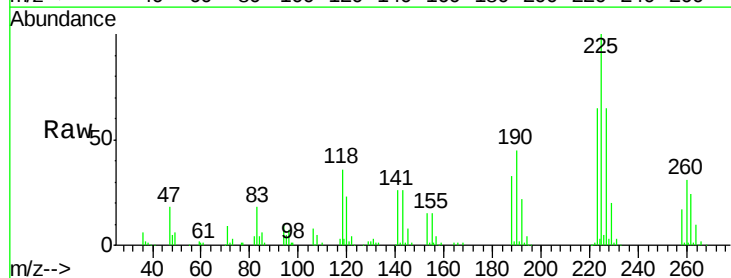


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

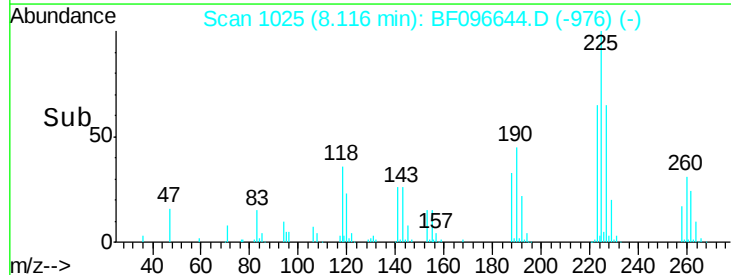
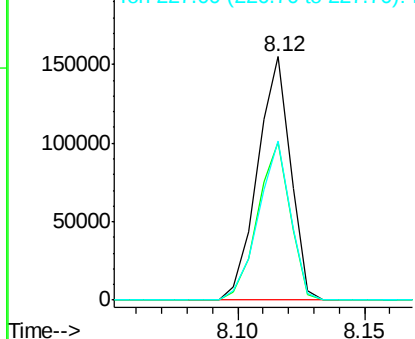


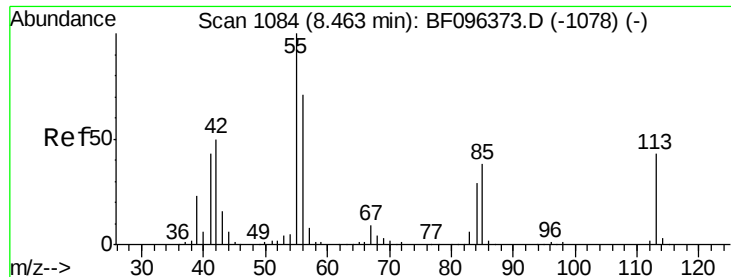
#34
Hexachlorobutadiene
Concen: 48.804 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
225	100		
223	64.6	48.8	73.2
227	65.3	51.1	76.7



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E





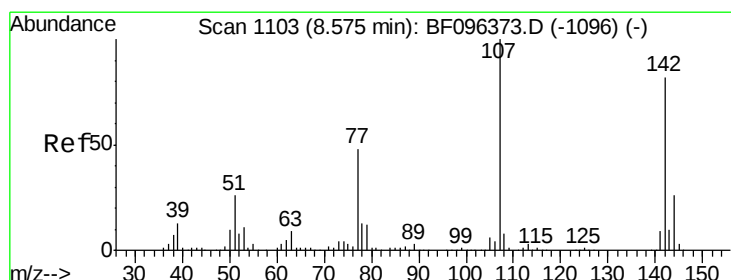
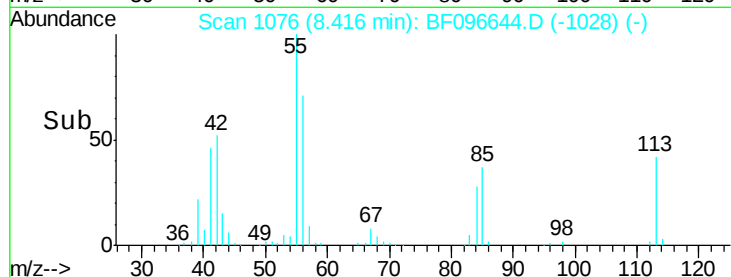
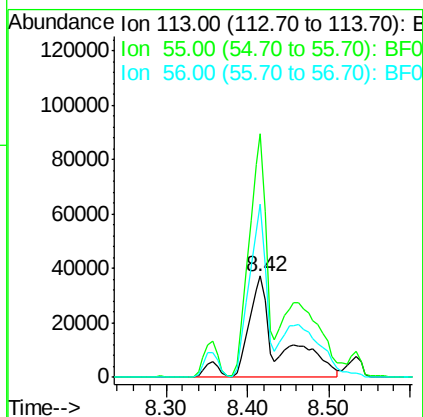
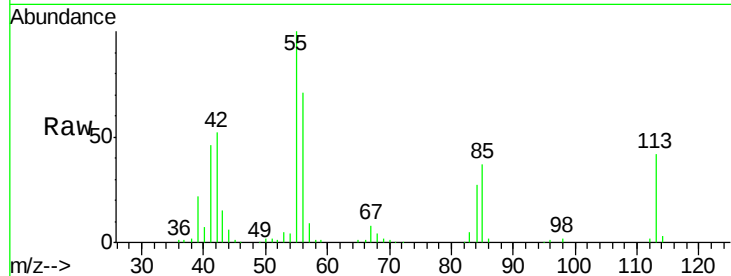
#35
 Caprolactam
 Concen: 49.701 ng m
 RT: 8.42 min Scan# 1076
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion:113 Resp: 102381
 Ion Ratio Lower Upper
 113 100
 55 239.9 150.2 190.2#
 56 170.6 107.8 147.8#

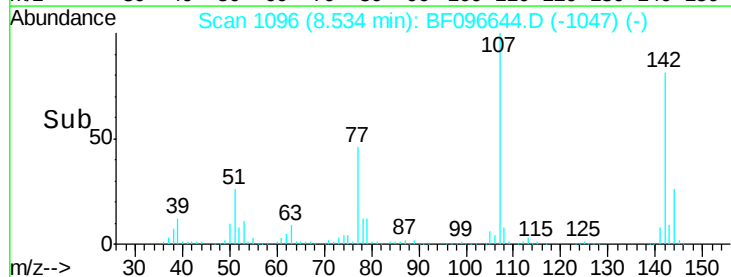
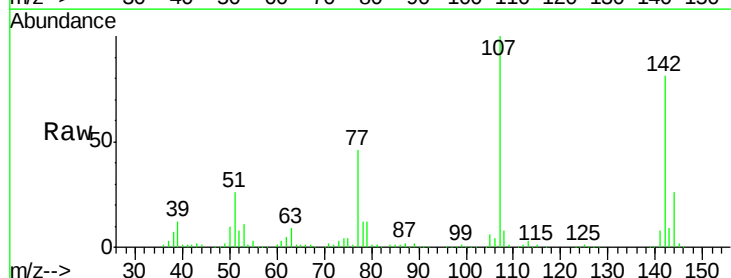
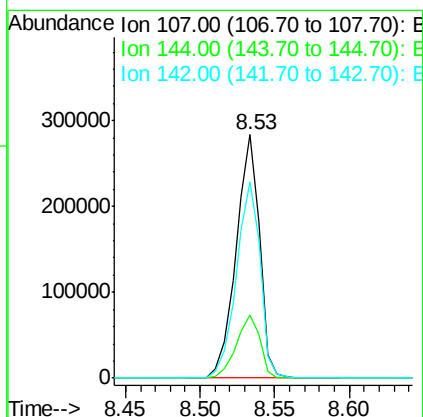
Manual Integrations
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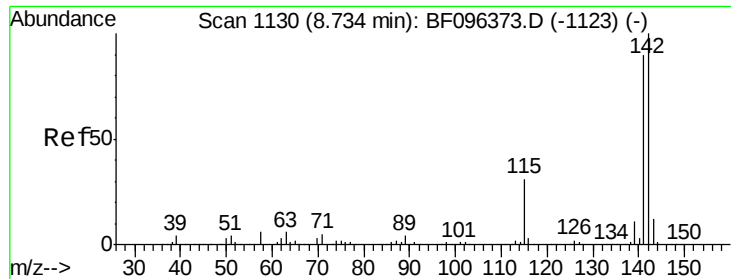
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#36
 4-Chloro-3-methylphenol
 Concen: 47.075 ng
 RT: 8.53 min Scan# 1096
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:107 Resp: 311165
 Ion Ratio Lower Upper
 107 100
 144 25.8 24.2 36.4
 142 80.8 73.4 110.0





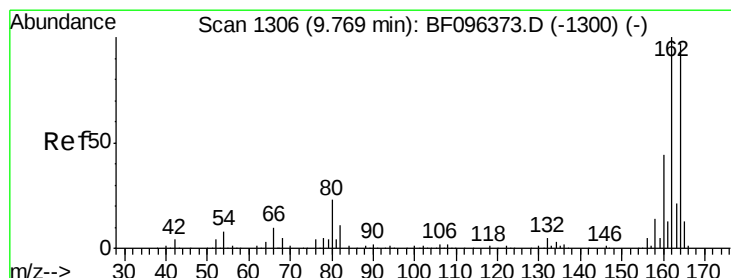
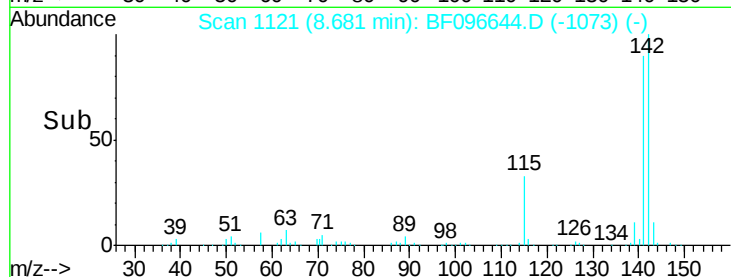
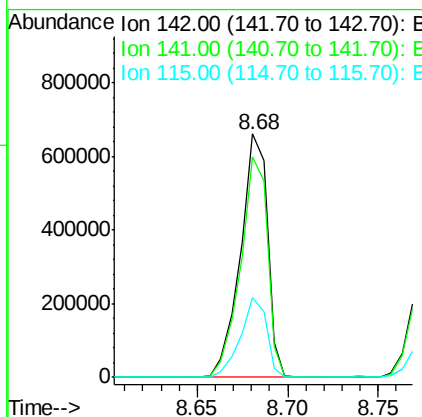
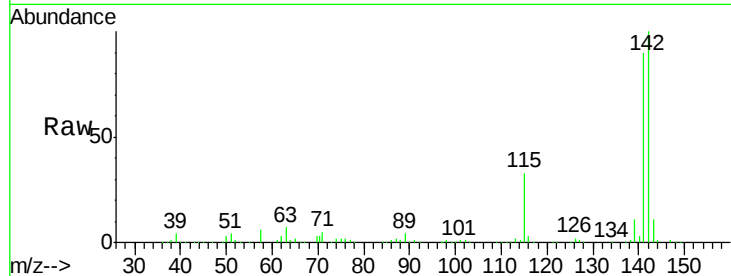
#37
 2-Methylnaphthalene
 Concen: 51.918 ng
 RT: 8.68 min Scan# 1121
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	686575		
141	90.4	71.3	106.9	
115	32.7	27.1	40.7	

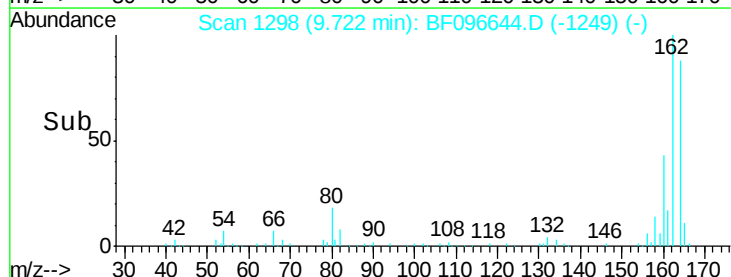
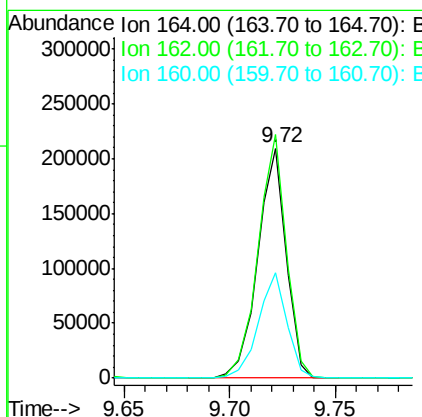
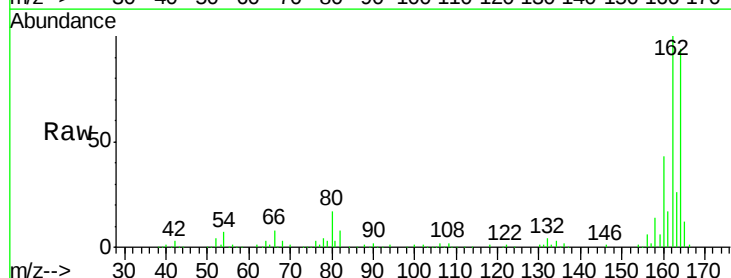
Manual Integrations
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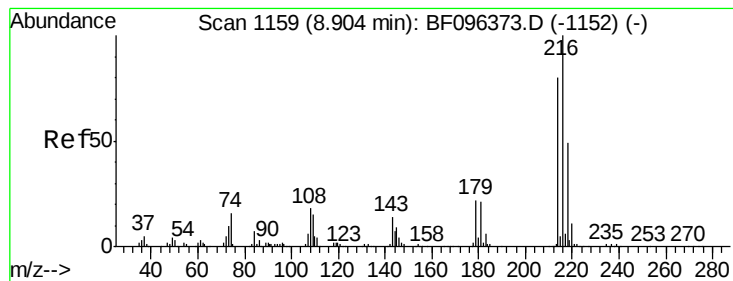
mohammad
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	195561		
162	106.1	82.6	123.8	
160	45.8	36.2	54.2	





#39

1,2,4,5-Tetrachlorobenzene

Concen: 46.265 ng

RT: 8.85 min Scan# 1150

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

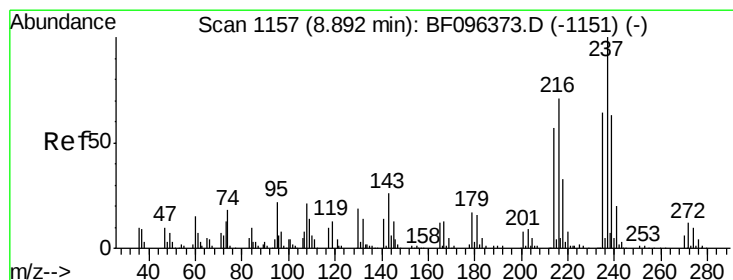
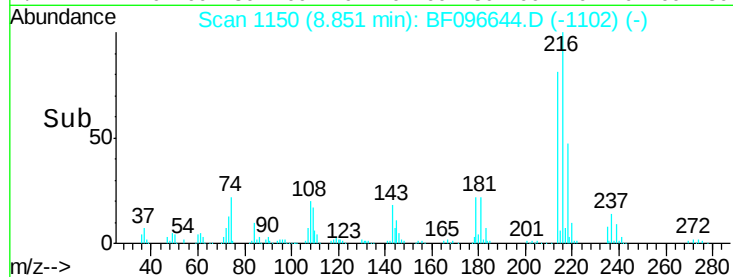
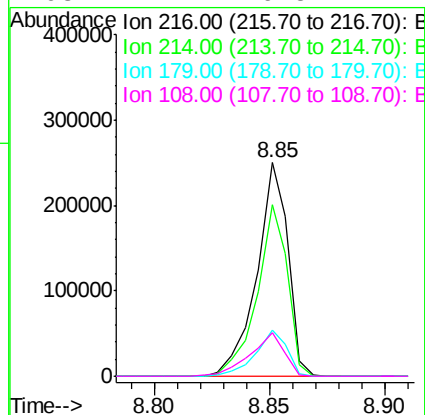
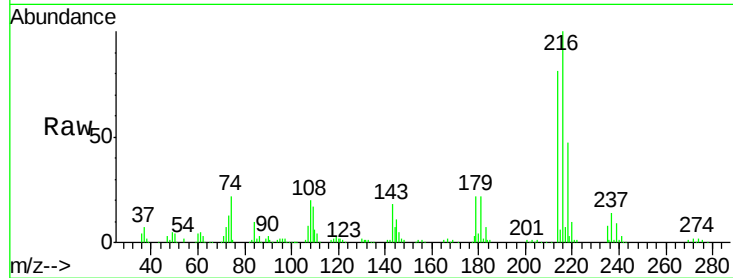
ClientSampleId :

NAA-SANDMSD

Tgt Ion:	216	Resp:	234925
Ion Ratio	Lower	Upper	
216	100		
214	78.6	63.4	95.2
179	21.7	17.9	26.9
108	22.4	16.5	24.7

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#40

Hexachlorocyclopentadiene

Concen: 87.822 ng

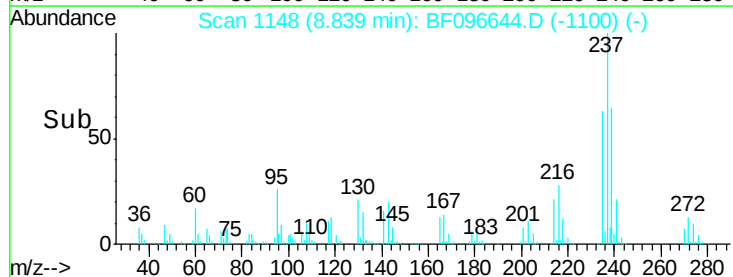
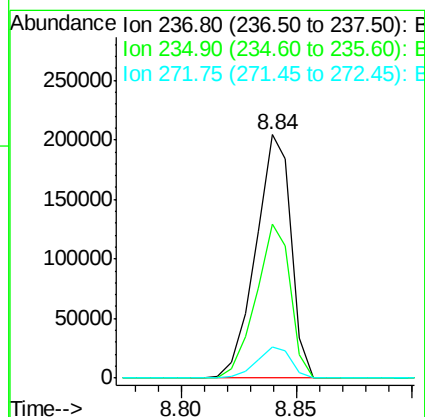
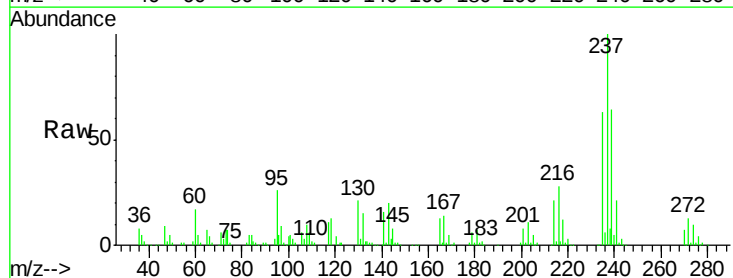
RT: 8.84 min Scan# 1148

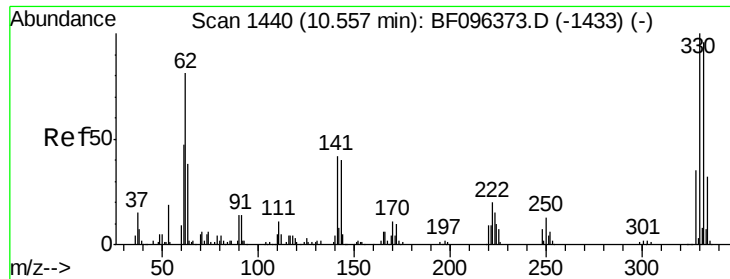
Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	237	Resp:	216830
Ion Ratio	Lower	Upper	
237	100		
235	63.5	42.6	82.6
272	12.7	0.0	31.9





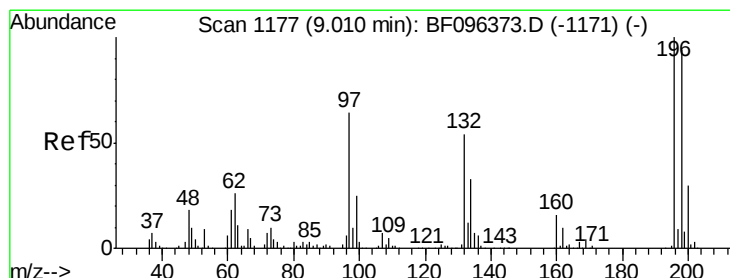
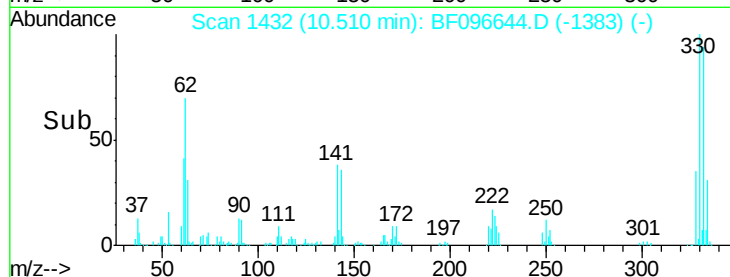
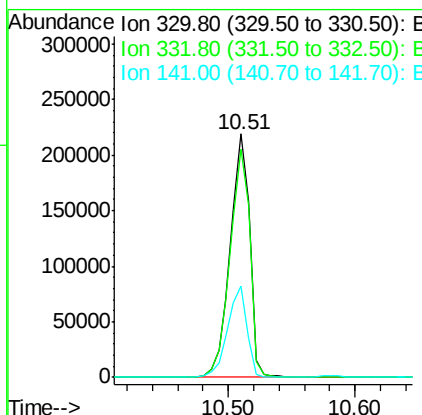
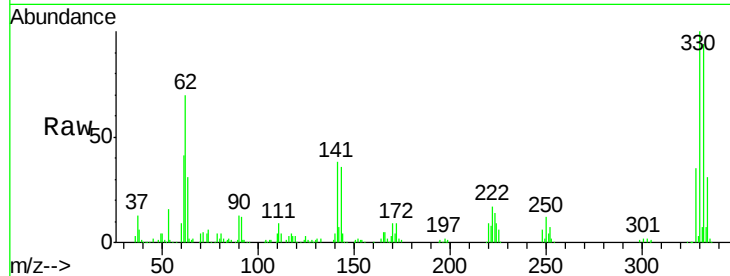
#41
 2,4,6-Tribromophenol
 Concen: 151.622 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.6	115.0
141	37.3	31.4	47.2

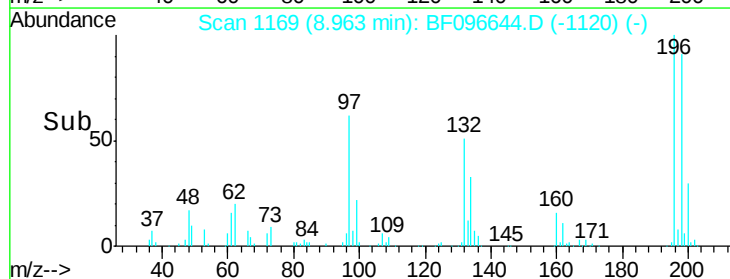
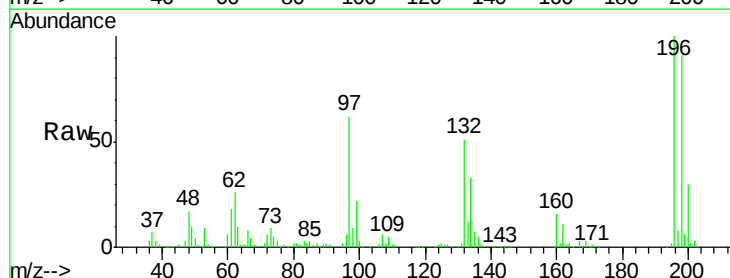
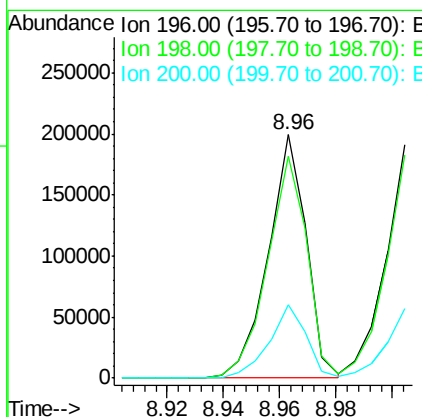
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#42
 2,4,6-Trichlorophenol
 Concen: 46.378 ng
 RT: 8.96 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
196	100		
198	91.3	74.2	111.4
200	30.0	24.0	36.0





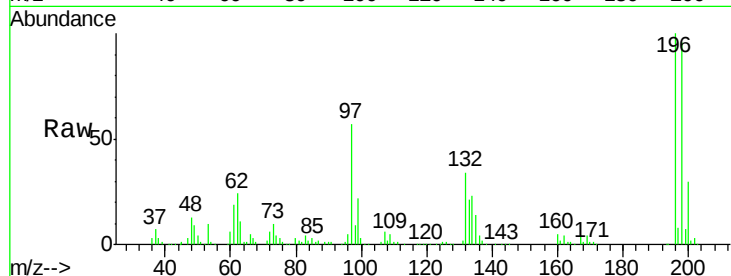
#43
 2,4,5-Trichlorophenol
 Concen: 49.283 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	195738		
198	95.7	75.7	113.5	
97	57.0	47.7	71.5	
132	34.4	28.0	42.0	

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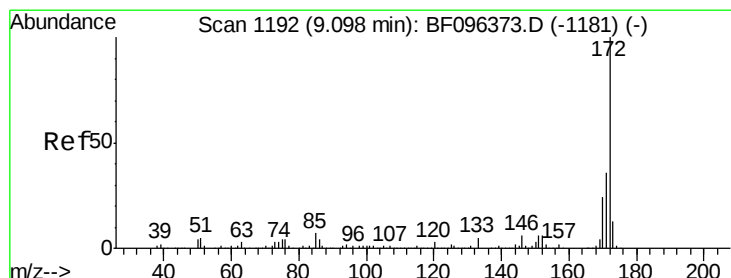
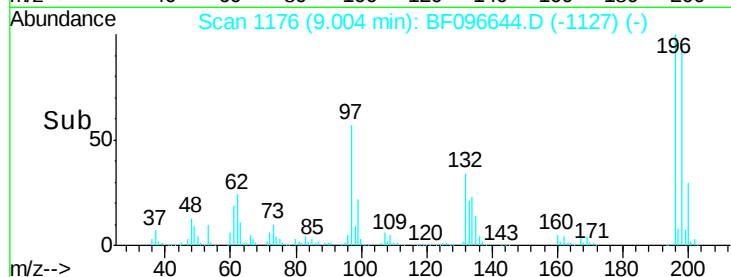
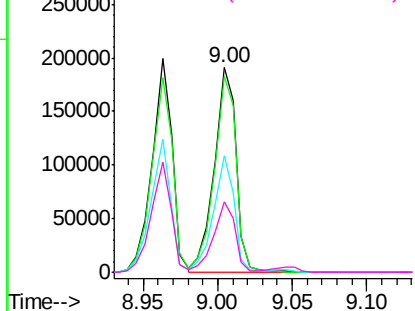
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF0

Ion 132.00 (131.70 to 132.70): E



#44
 2-Fluorobiphenyl
 Concen: 100.307 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

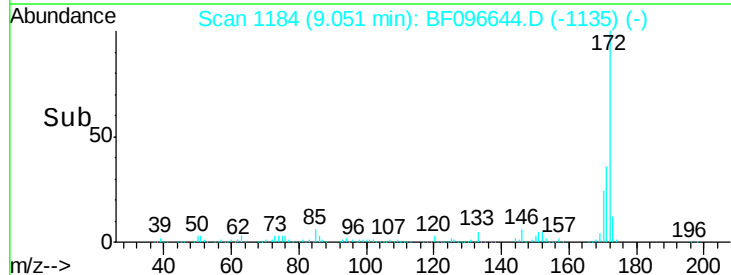
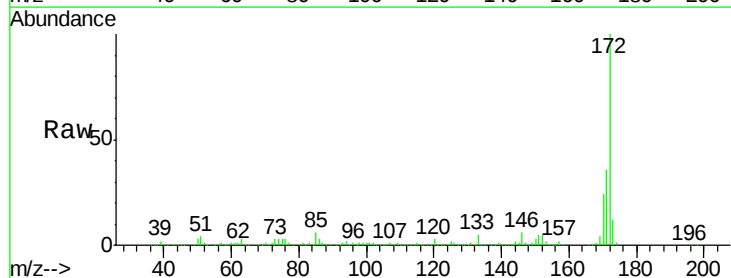
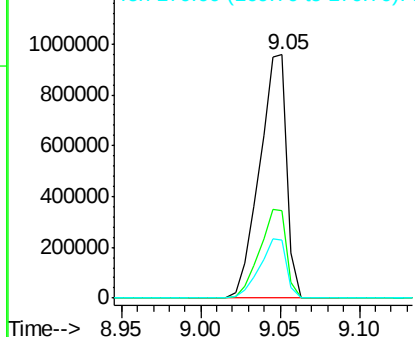
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1147293		
171	35.9	29.6	44.4	
170	23.9	19.8	29.8	

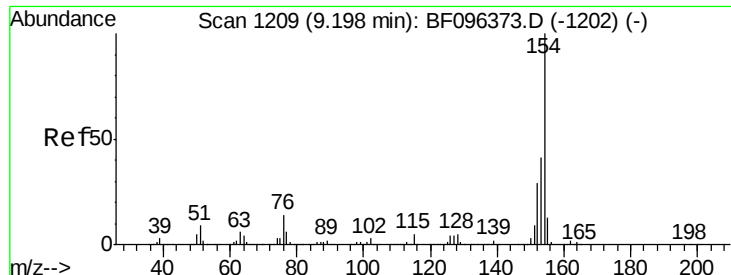
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





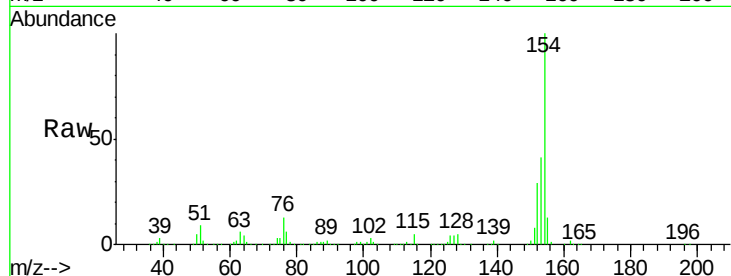
#45
 1,1'-Biphenyl
 Concen: 44.799 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

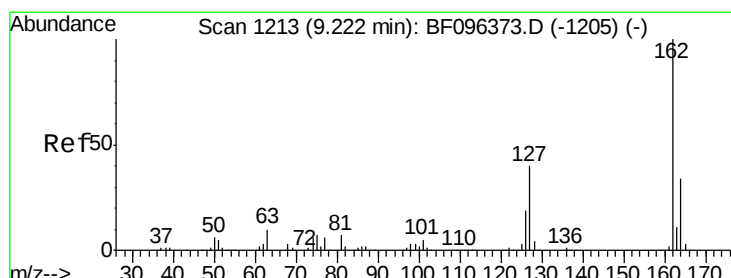
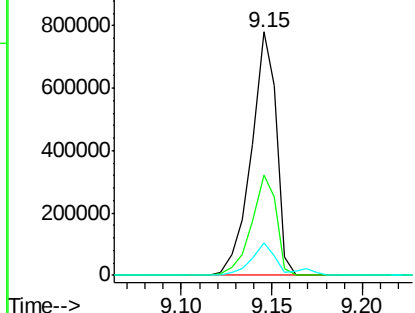
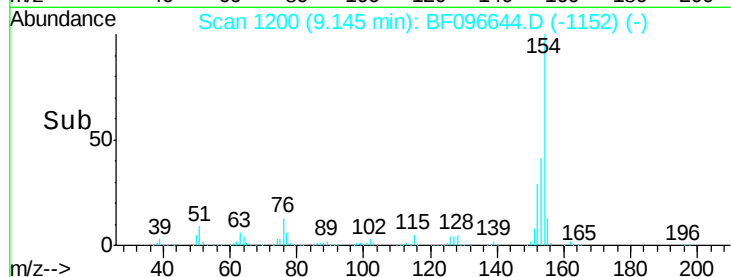
Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.2	61.2
76	13.3	0.0	29.9

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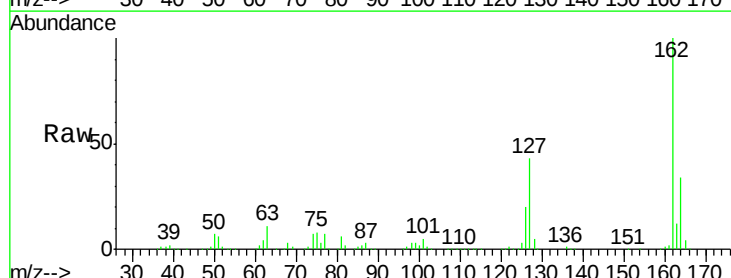


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

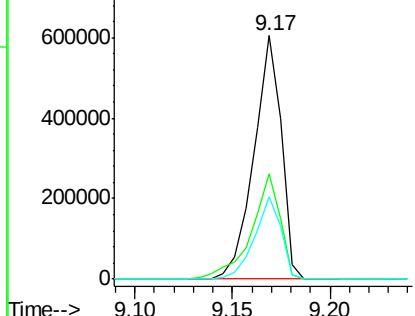
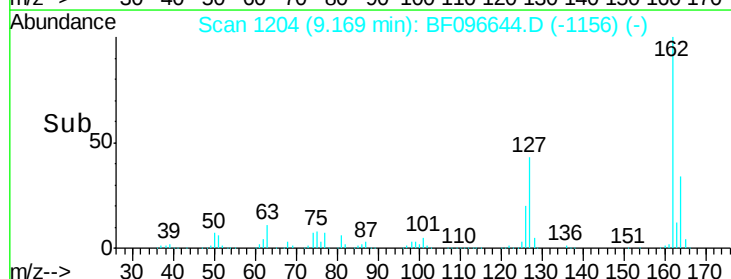


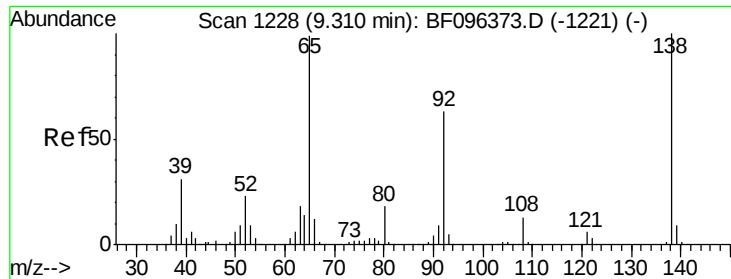
#46
 2-Chloronaphthalene
 Concen: 47.025 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
162	100		
127	43.2	28.3	42.5#
164	33.6	27.0	40.4



Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E





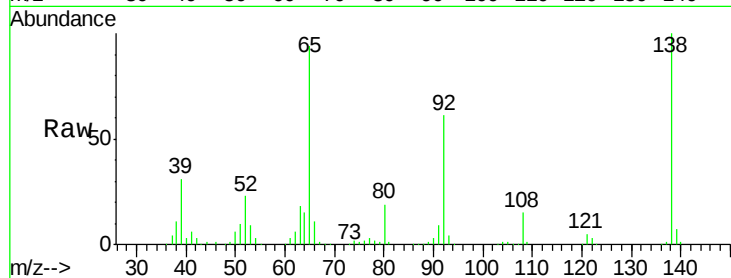
#47
2-Nitroaniline
Concen: 47.693 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
65	100		
92	64.8	53.9	80.9
138	105.9	78.8	118.2

Manual Integrations
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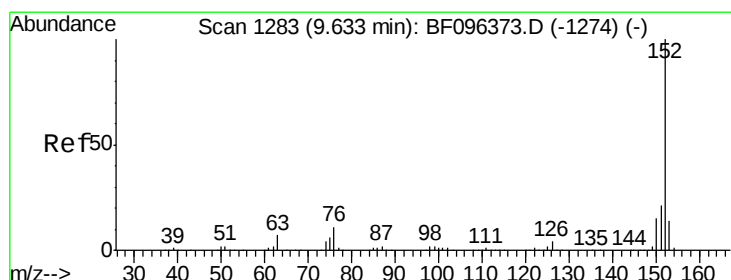
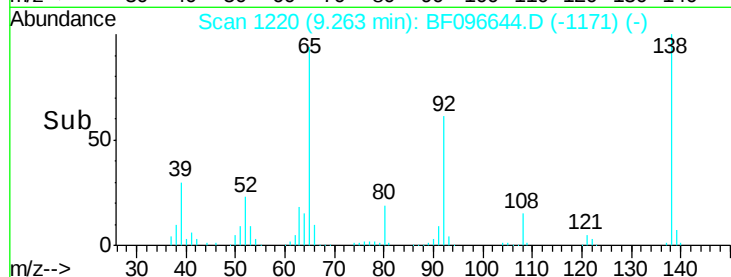
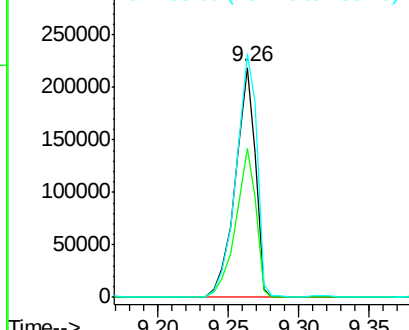


Abundance

Ion 65.00 (64.70 to 65.70): BF0

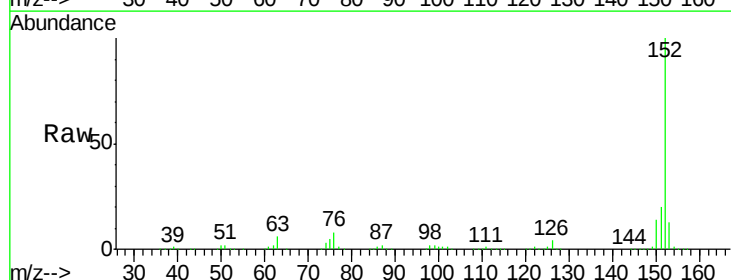
Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): E



#48
Acenaphthylene
Concen: 48.030 ng
RT: 9.59 min Scan# 1275
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.8	25.2
153	12.8	10.8	16.2

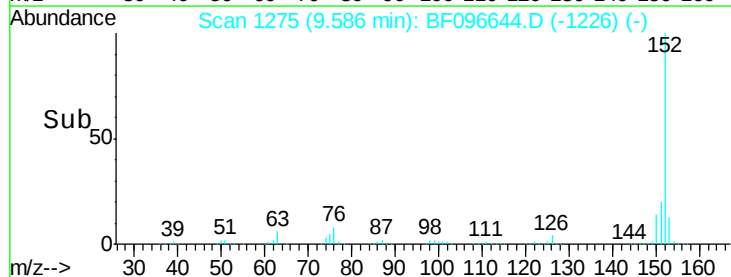
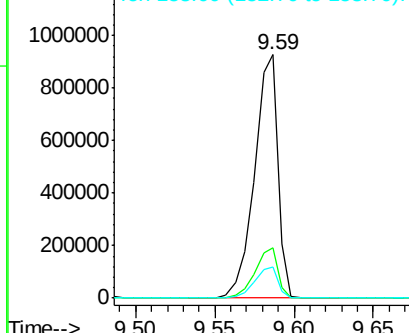


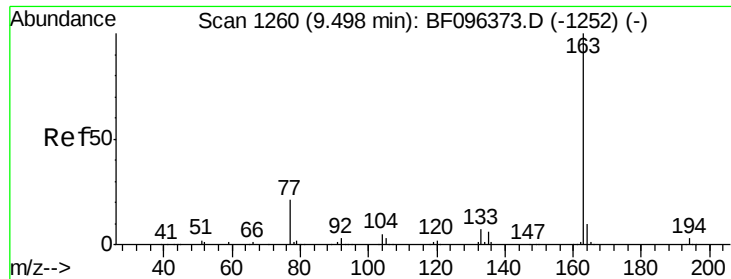
Abundance

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





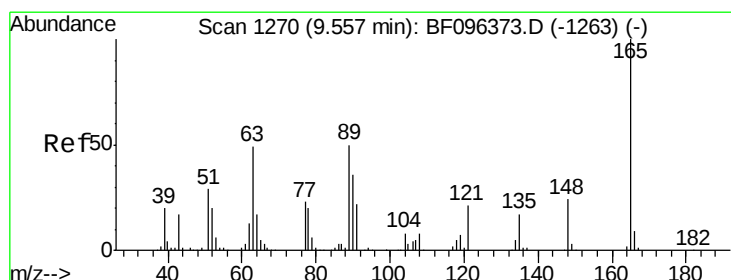
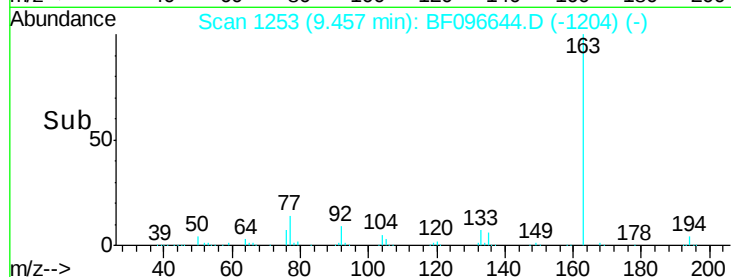
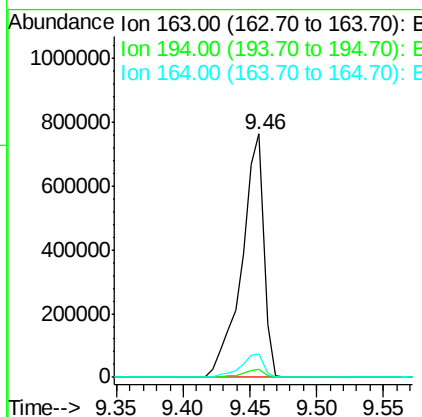
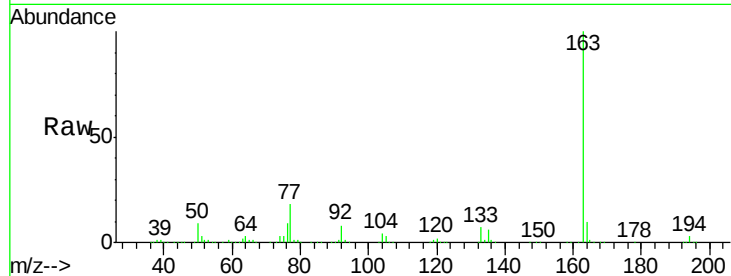
#49
Dimethylphthalate
Concen: 59.664 ng
RT: 9.46 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	871028		
194	3.3	2.6	4.0	
164	9.8	8.4	12.6	

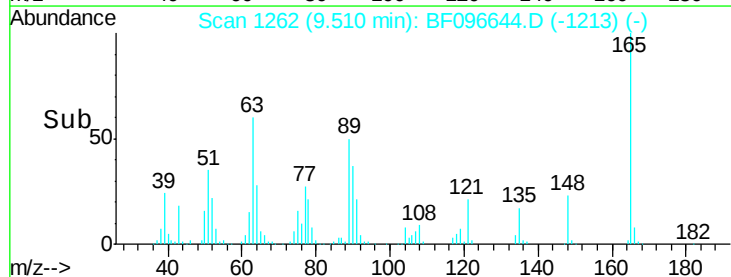
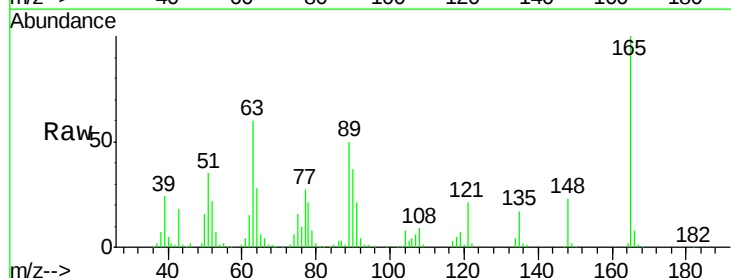
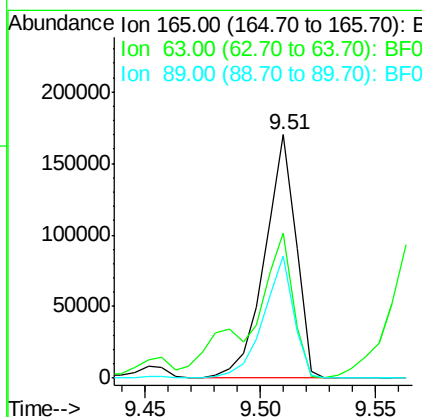
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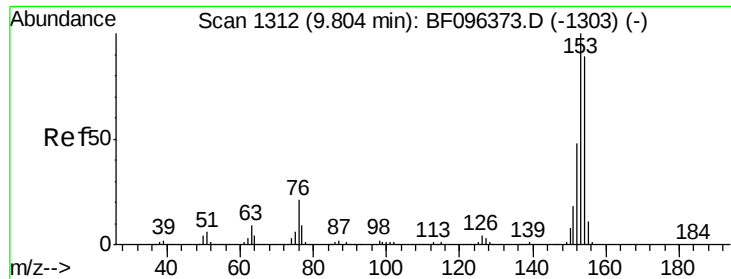
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#50
2,6-Dinitrotoluene
Concen: 49.389 ng
RT: 9.51 min Scan# 1262
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	159443		
63	59.8	34.3	51.5#	
89	49.9	37.1	55.7	





#51

Acenaphthene

Concen: 44.890 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

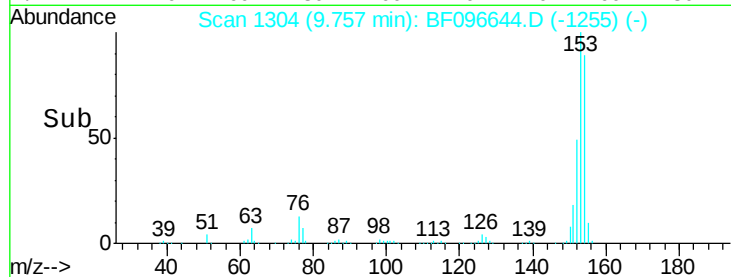
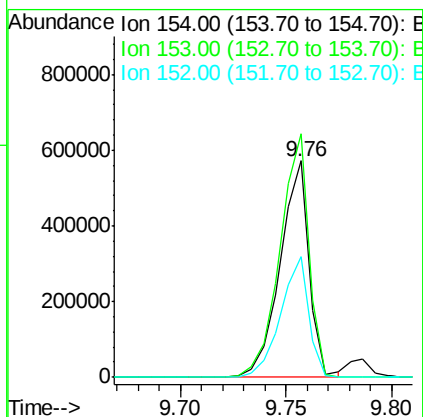
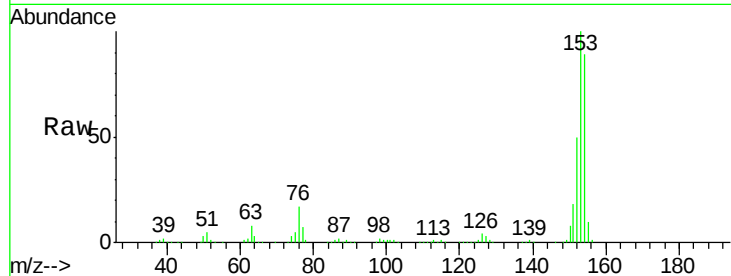
ClientSampleId :

NAA-SANDMSD

Tgt Ion:	154	Resp:	547503
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.5	135.7
152	55.8	43.6	65.4

Manual Integrations
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#52

3-Nitroaniline

Concen: 32.878 ng

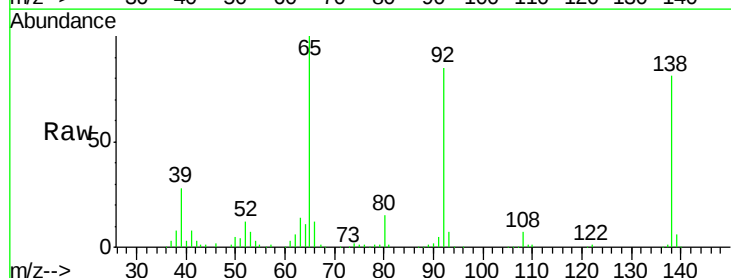
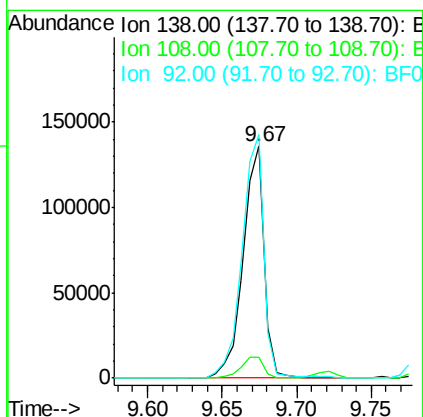
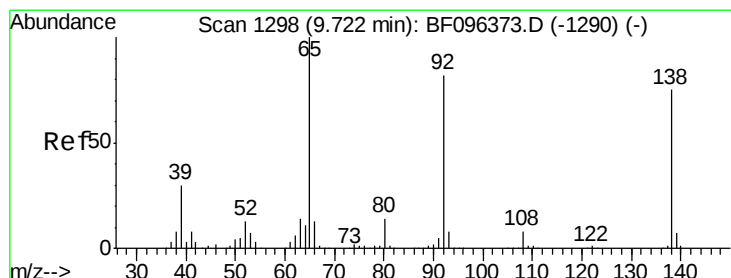
RT: 9.67 min Scan# 1290

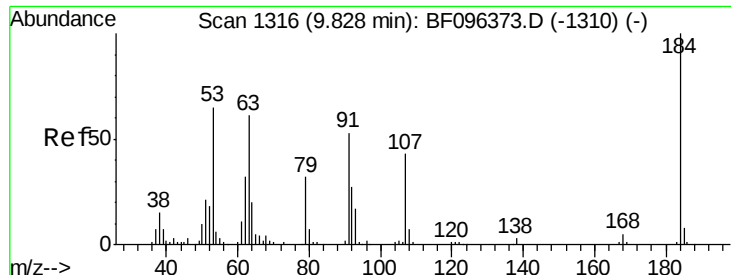
Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	138	Resp:	132386
Ion Ratio	Lower	Upper	
138	100		
108	9.2	9.1	13.7
92	104.9	93.8	140.6





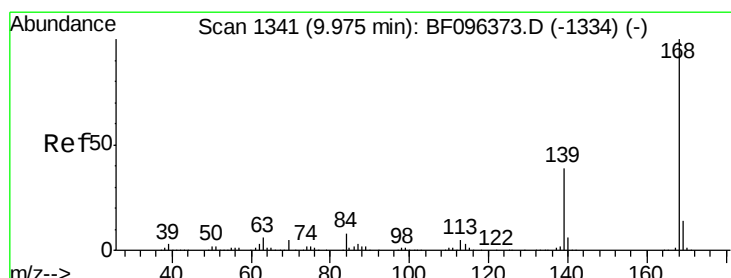
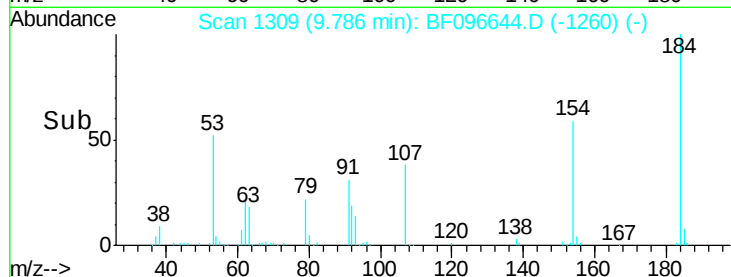
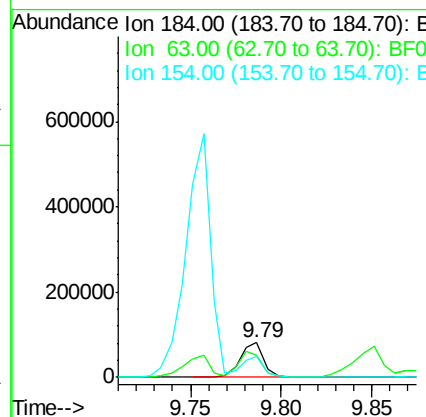
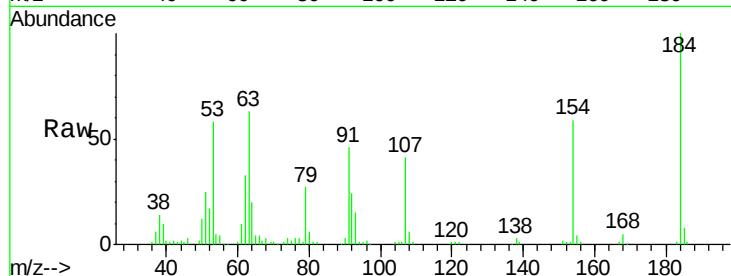
#53
 2,4-Dinitrophenol
 Concen: 43.787 ng
 RT: 9.79 min Scan# 1309
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion:184 Resp: 75080
 Ion Ratio Lower Upper
 184 100
 63 63.4 62.7 94.1
 154 59.2 81.1 121.7#

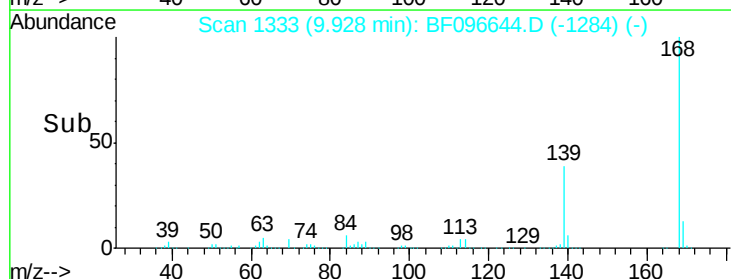
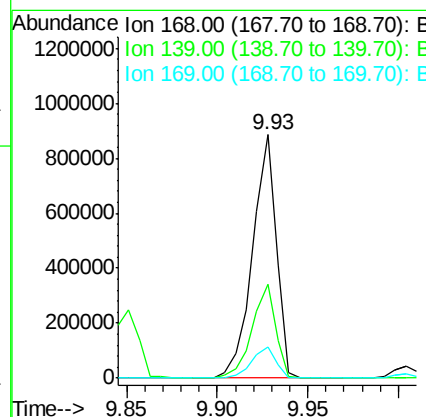
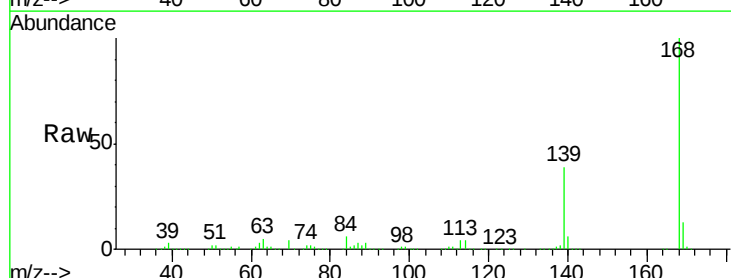
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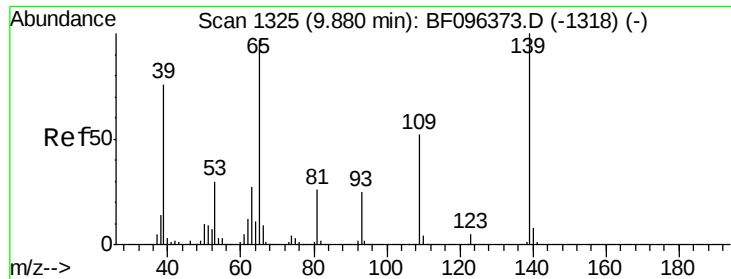
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#54
 Dibenzofuran
 Concen: 50.114 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:168 Resp: 806978
 Ion Ratio Lower Upper
 168 100
 139 38.6 30.6 45.8
 169 13.0 10.8 16.2





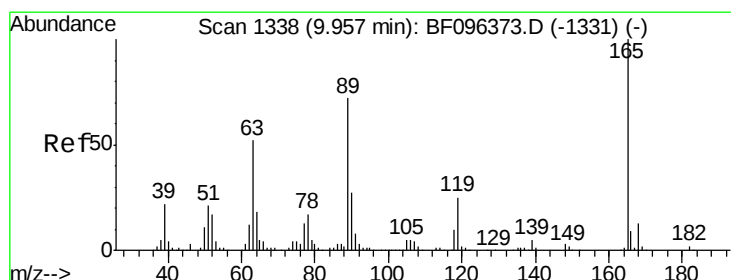
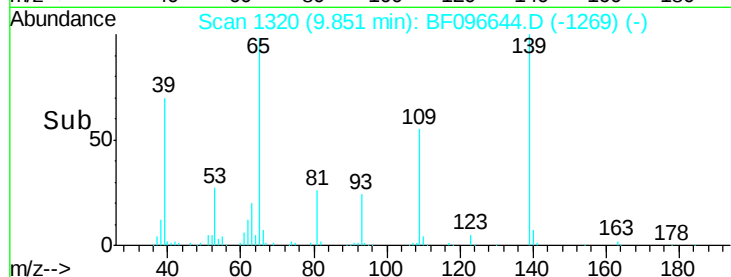
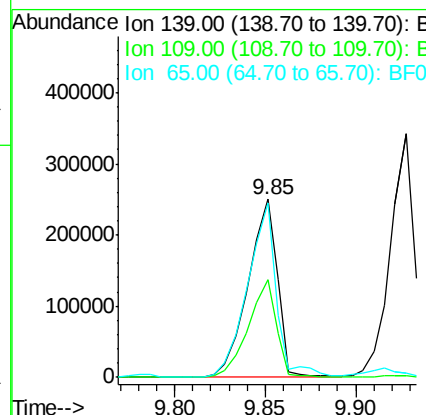
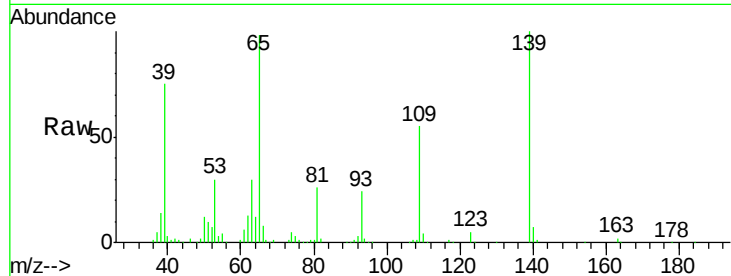
#55
4-Nitrophenol
Concen: 84.423 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.00 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
139	100		
109	55.2	34.1	74.1
65	98.3	31.4	71.4

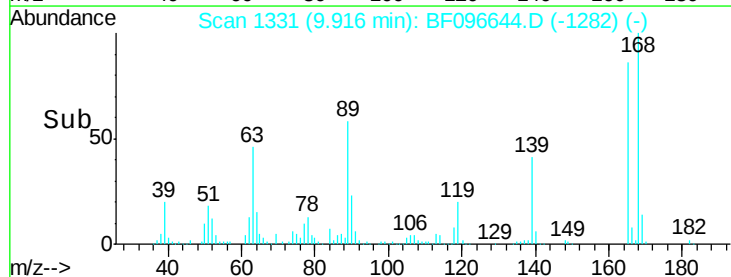
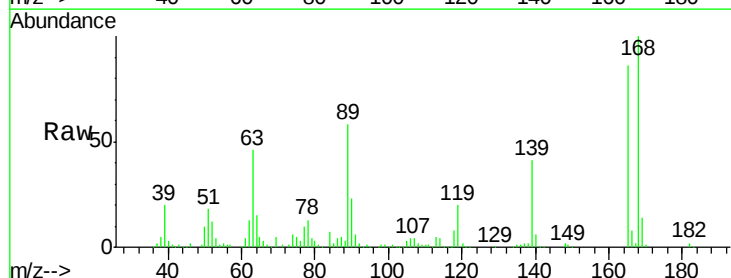
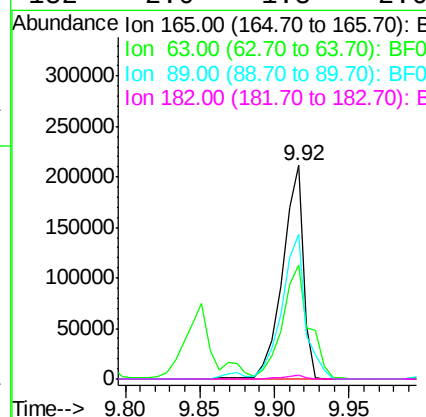
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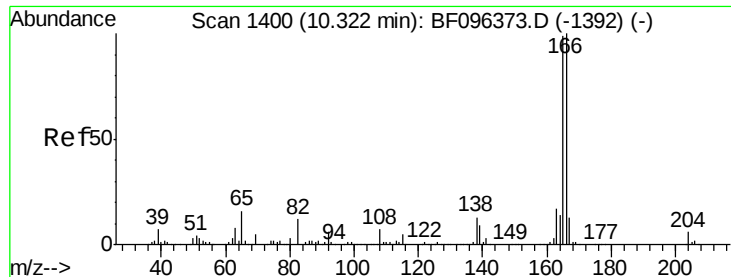
mohammad
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#56
2,4-Dinitrotoluene
Concen: 50.763 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
165	100		
63	53.5	25.4	38.0
89	67.9	46.4	69.6
182	2.0	1.8	2.6





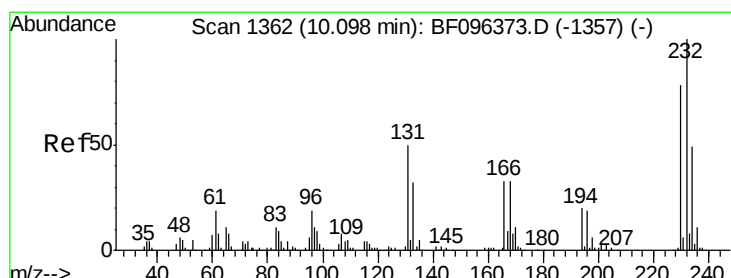
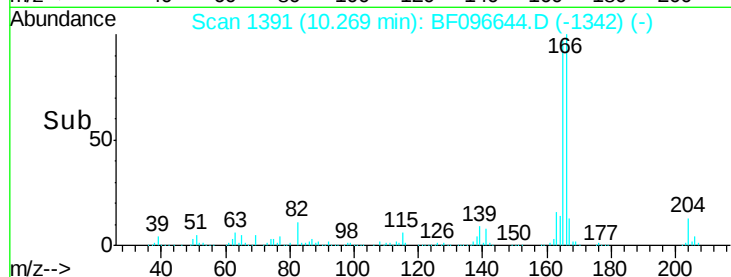
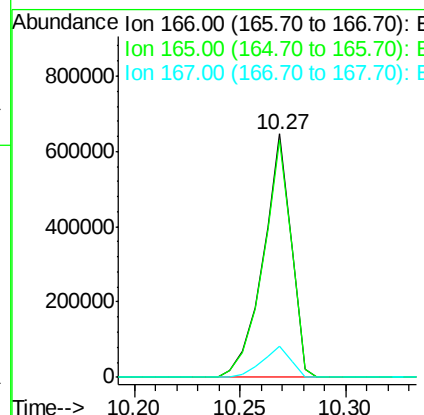
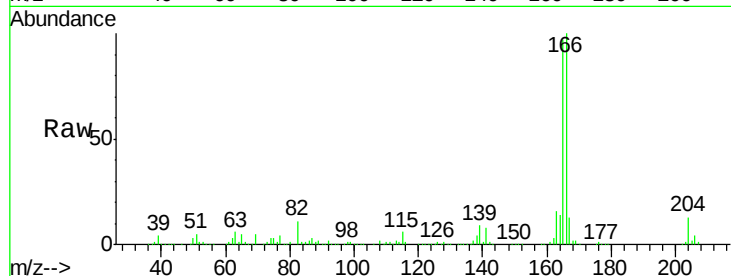
#57
Fluorene
 Concen: 52.243 ng
 RT: 10.27 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	594151		
165	97.4	78.8	118.2	
167	13.1	10.6	16.0	

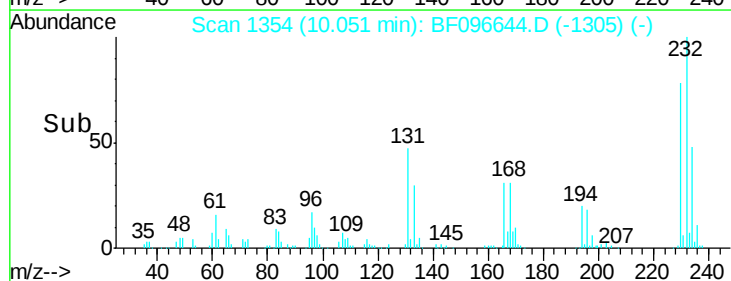
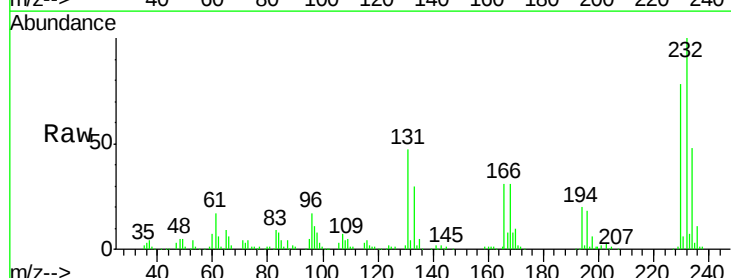
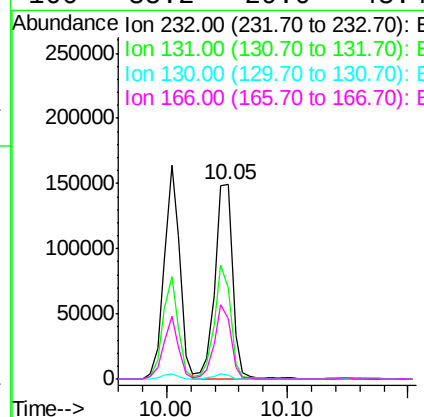
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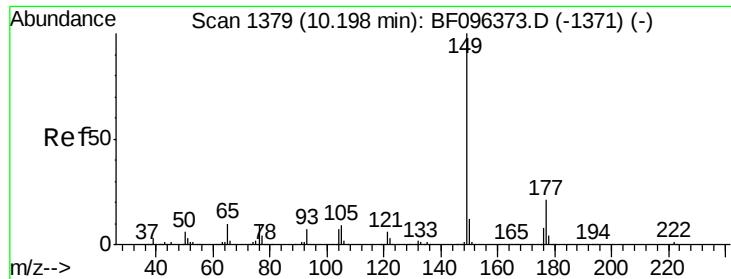
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#58
2,3,4,6-Tetrachlorophenol
 Concen: 54.825 ng
 RT: 10.05 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
232	100	150654		
131	54.0	44.8	67.2	
130	2.5	2.3	3.5	
166	35.2	29.0	43.4	





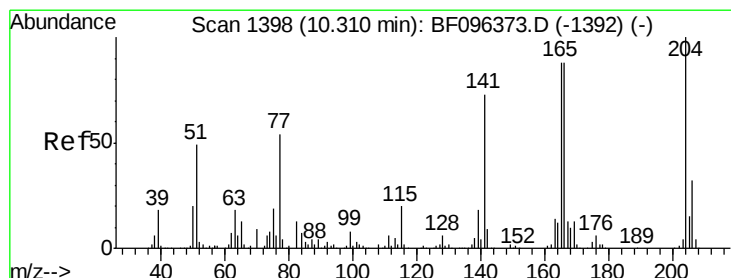
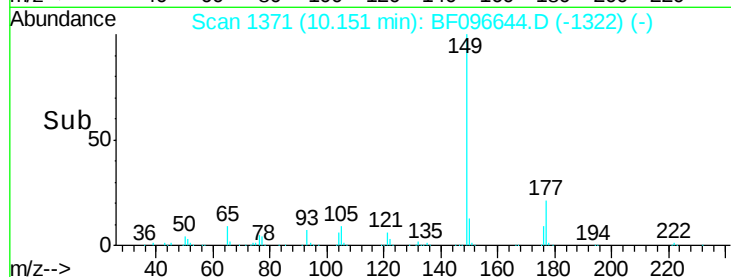
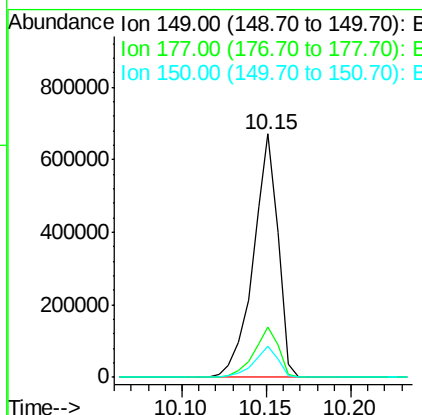
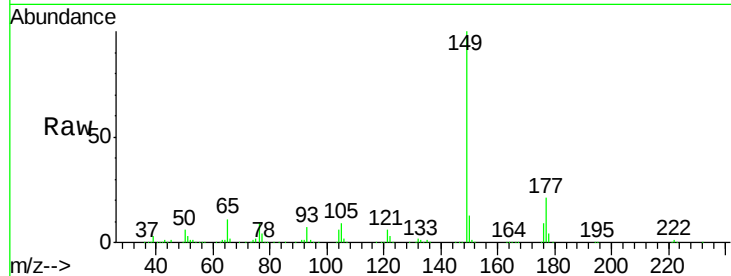
#59
Diethylphthalate
Concen: 49.305 ng
RT: 10.15 min Scan# 1371
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.6	16.7	25.1
150	12.5	10.2	15.2

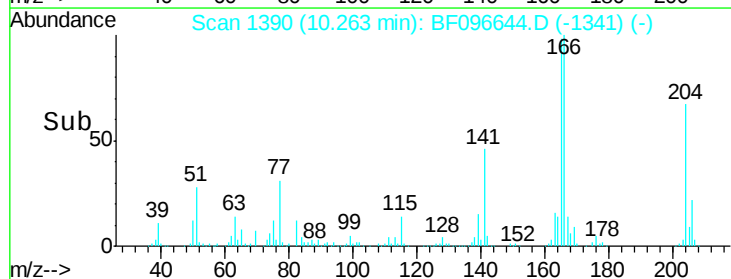
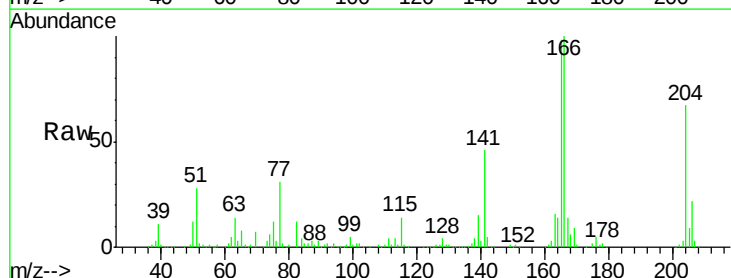
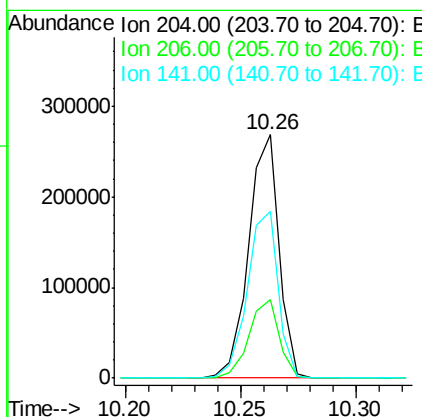
Manual Integrations
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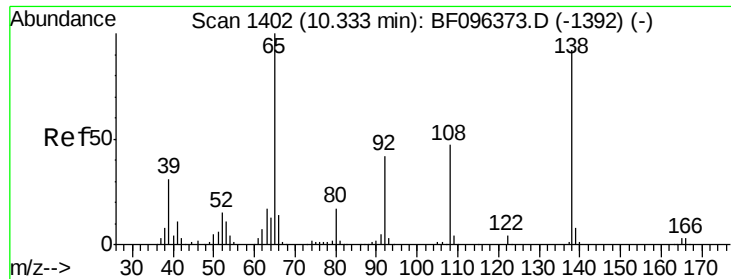
mohammad
7/12/2017 4:49:40 PM



#60
4-Chlorophenyl-phenylether
Concen: 49.987 ng
RT: 10.26 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.2	39.2
141	68.8	60.8	91.2





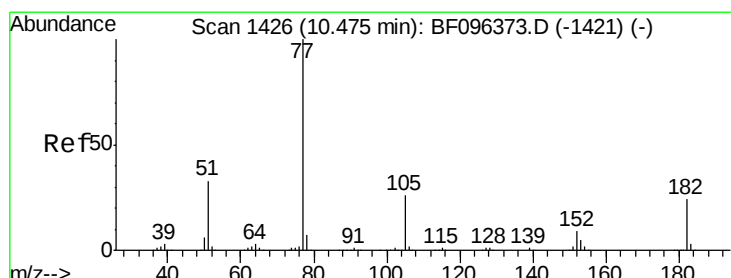
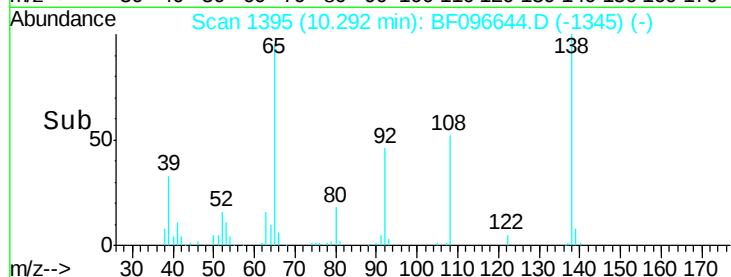
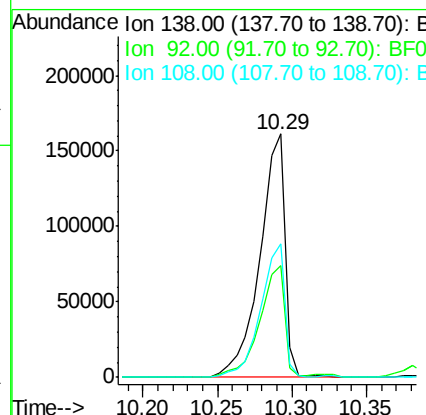
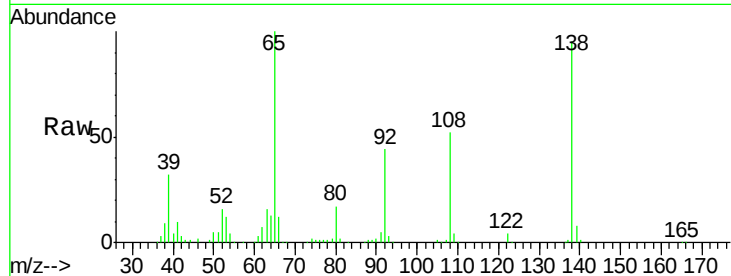
#61
4-Nitroaniline
Concen: 51.033 ng
RT: 10.29 min Scan# 1395
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
138	100		
92	46.1	21.8	61.8
108	54.8	42.3	82.3

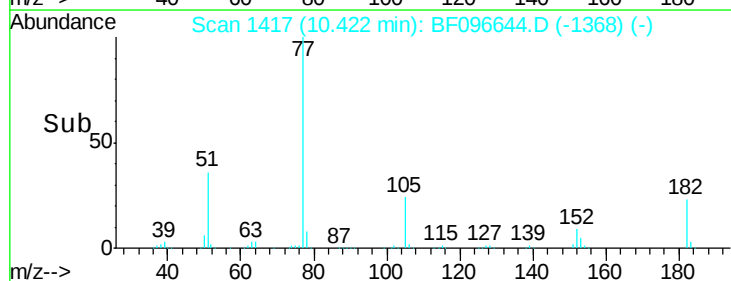
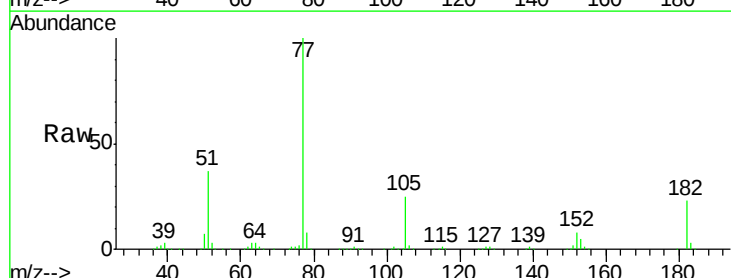
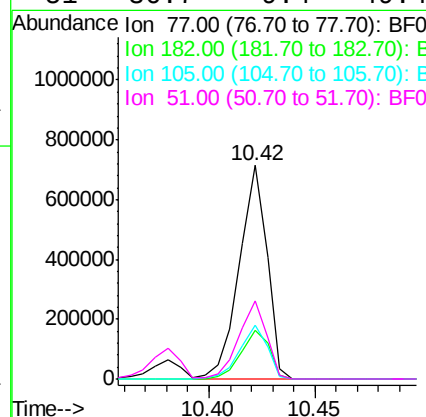
Manual Integrations
APPROVED

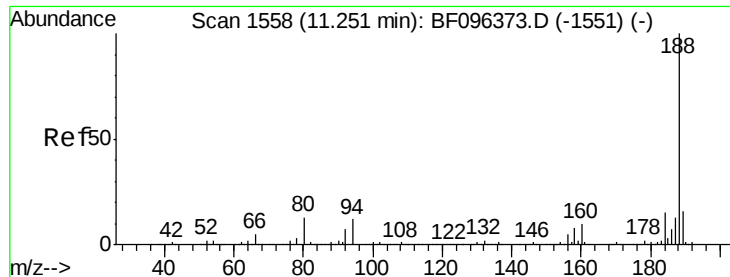
mohammad
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#62
Azobenzene
Concen: 48.673 ng
RT: 10.42 min Scan# 1417
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
77	100		
182	22.7	0.1	40.1
105	25.0	3.6	43.6
51	36.7	9.4	49.4





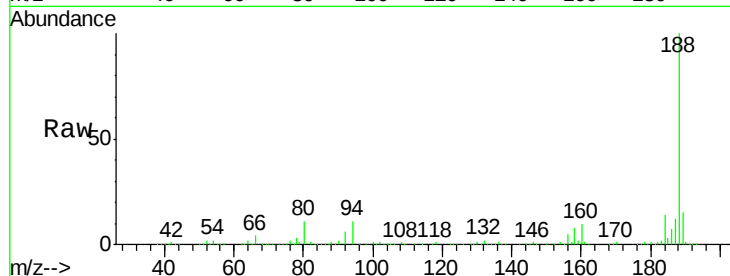
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

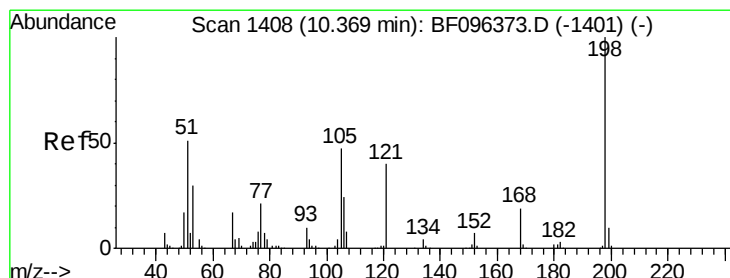
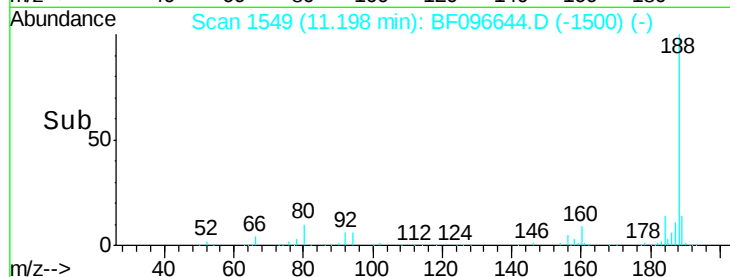
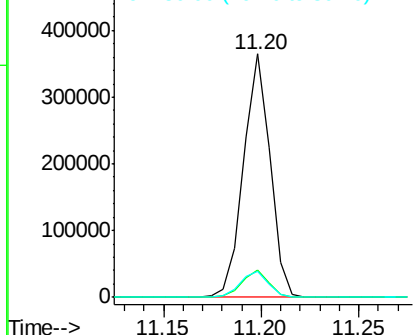
Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.0	9.4	14.2
80	10.8	10.2	15.2

Manual Integrations
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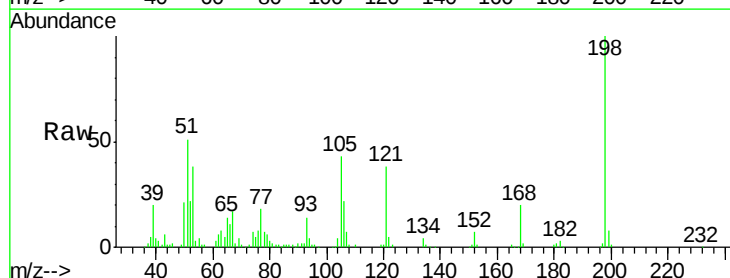


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

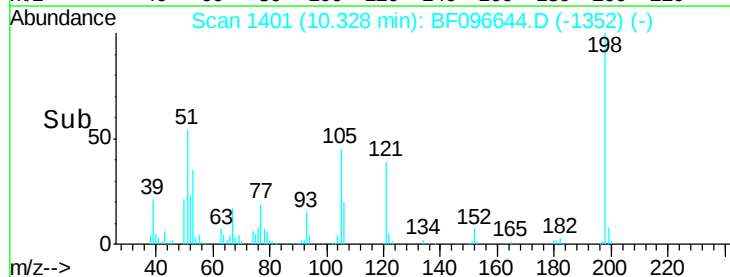
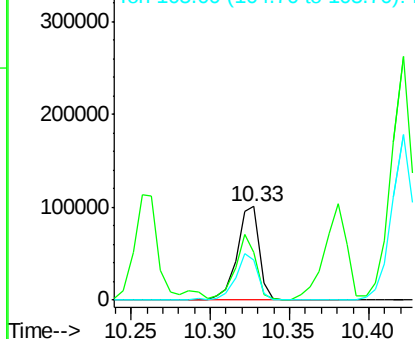


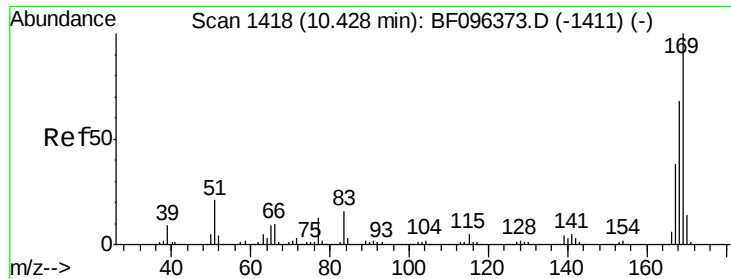
#64
4,6-Dinitro-2-methylphenol
Concen: 41.295 ng
RT: 10.33 min Scan# 1401
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
198	100		
51	51.3	53.2	93.2#
105	42.9	45.8	85.8#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





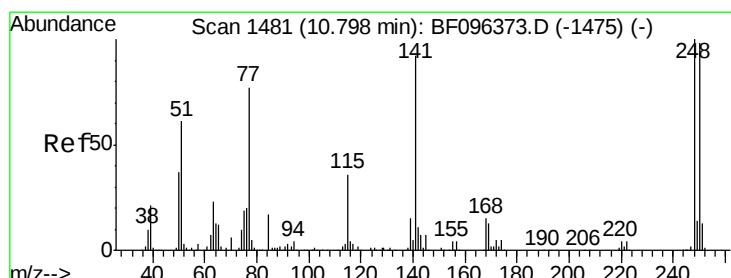
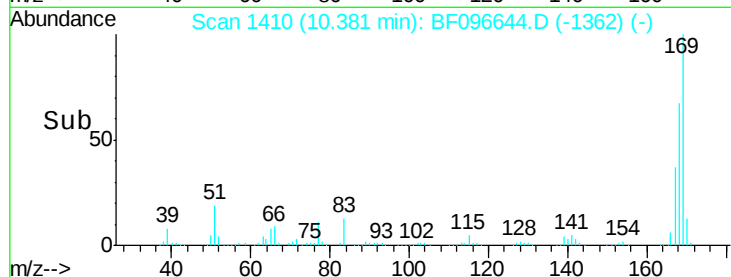
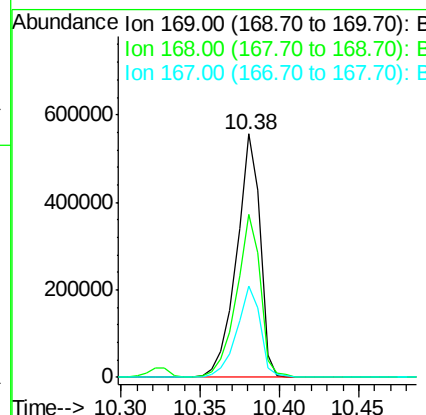
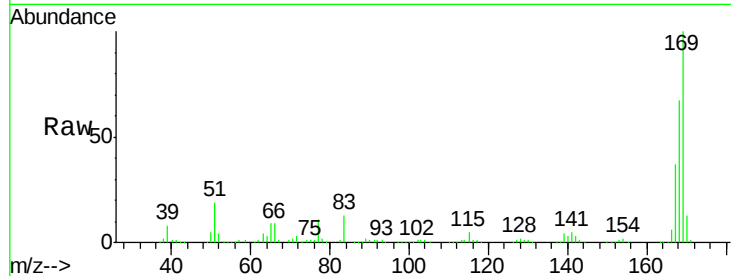
#65
n-Nitrosodiphenylamine
Concen: 47.232 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	570262		
168	67.2	53.2	79.8	
167	37.3	29.5	44.3	

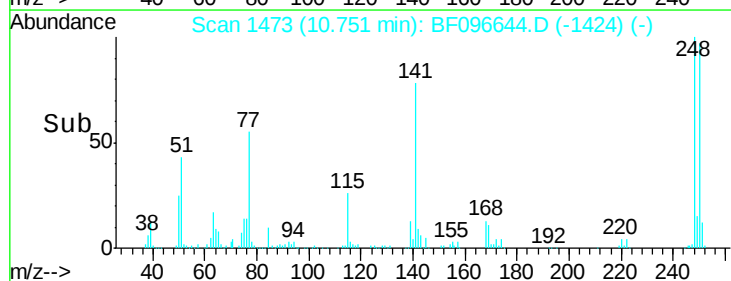
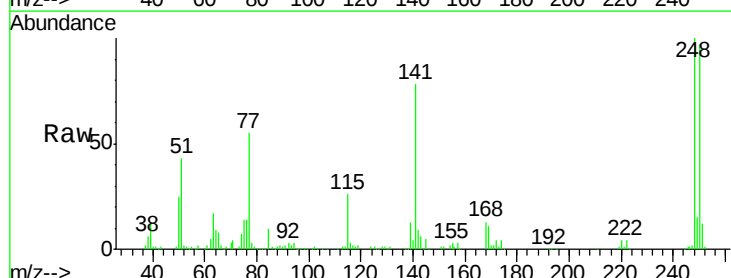
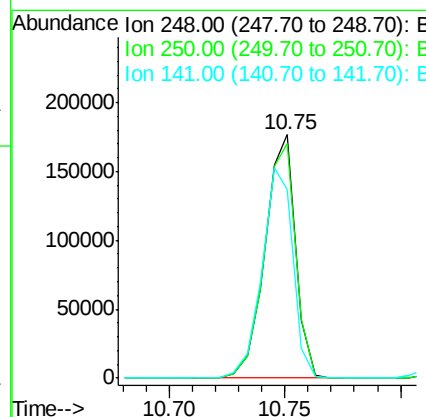
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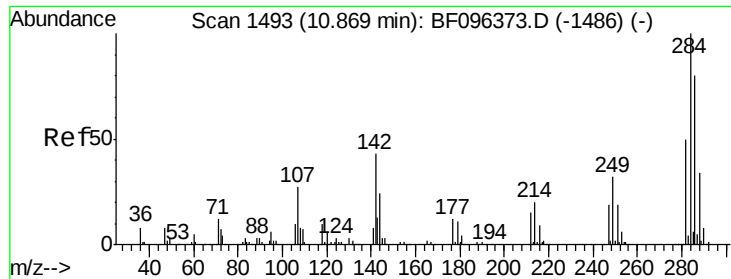
mohammad
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#66
4-Bromophenyl-phenylether
Concen: 48.426 ng
RT: 10.75 min Scan# 1473
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	162216		
250	96.6	76.8	115.2	
141	77.7	68.6	103.0	





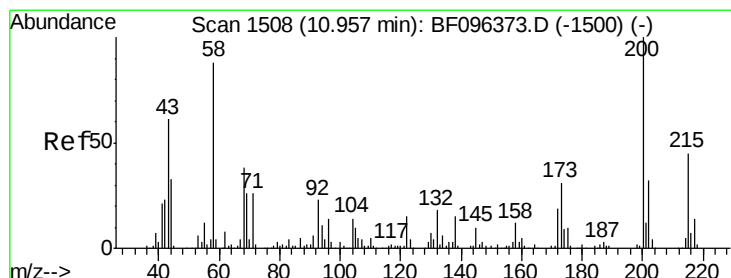
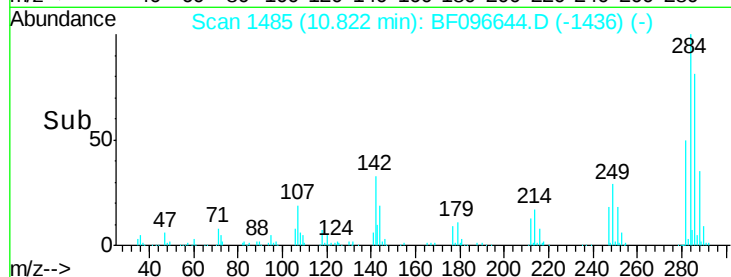
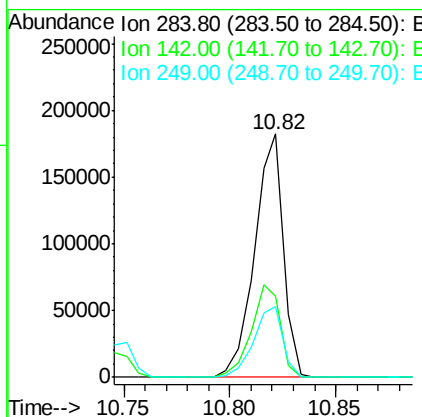
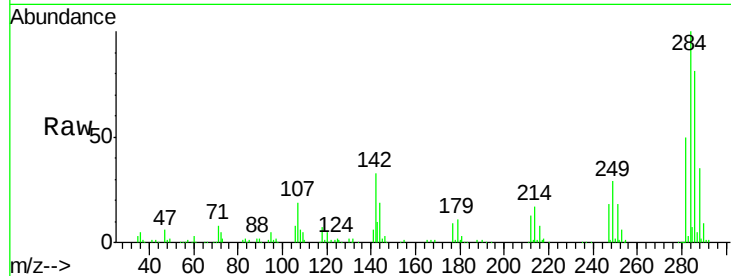
#67
Hexachlorobenzene
Concen: 46.900 ng
RT: 10.82 min Scan# 1485
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	171977		
142	33.3	22.8	34.2	
249	29.3	24.0	36.0	

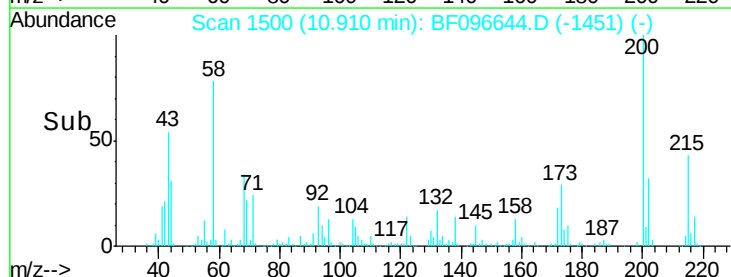
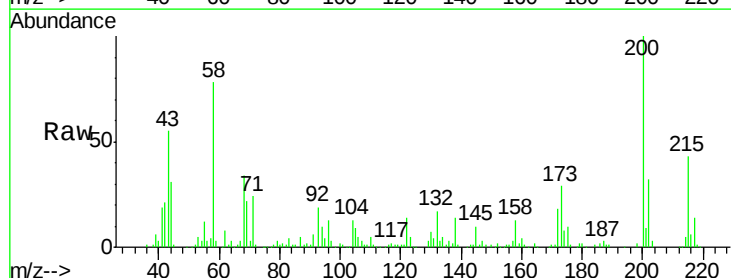
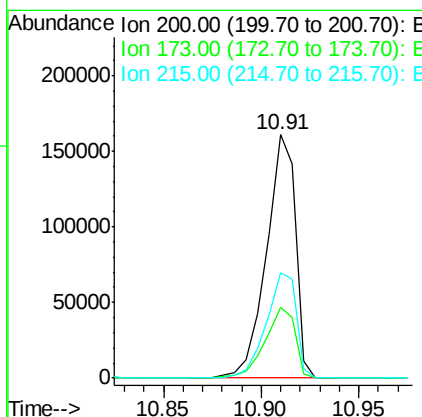
Manual Integrations
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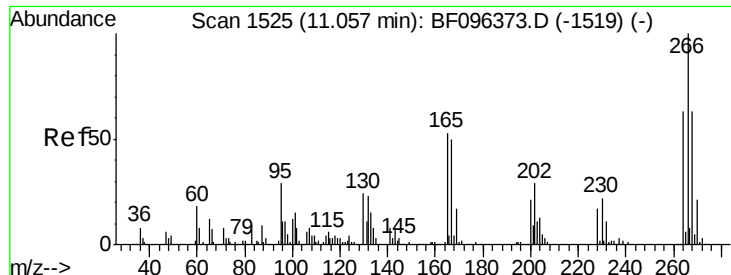
mohammad
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#68
Atrazine
Concen: 48.198 ng
RT: 10.91 min Scan# 1500
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
200	100	166252		
173	29.1	6.3	46.3	
215	43.4	27.2	67.2	





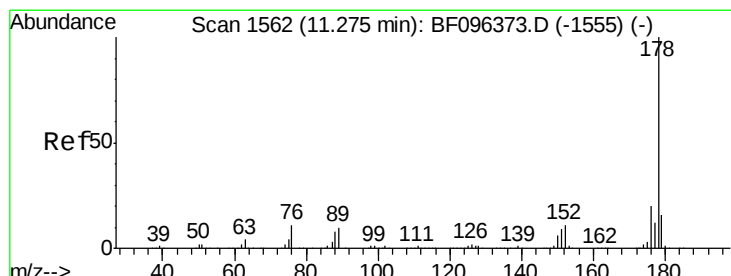
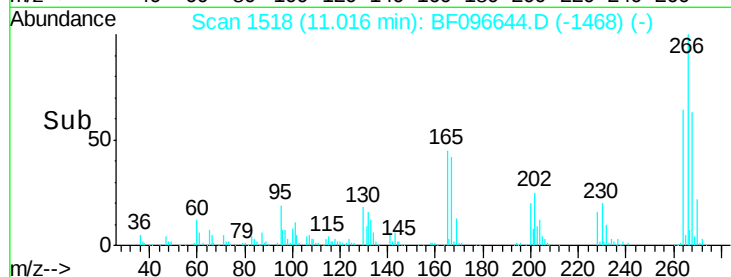
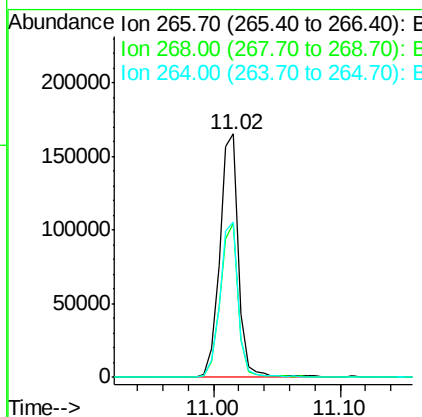
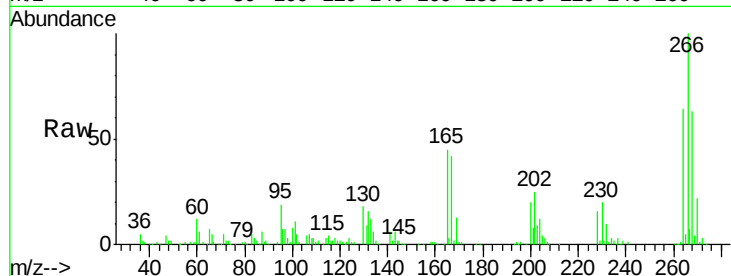
#69
 Pentachlorophenol
 Concen: 79.003 ng
 RT: 11.02 min Scan# 1518
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
266	100		
268	63.2	51.1	76.7
264	63.5	51.7	77.5

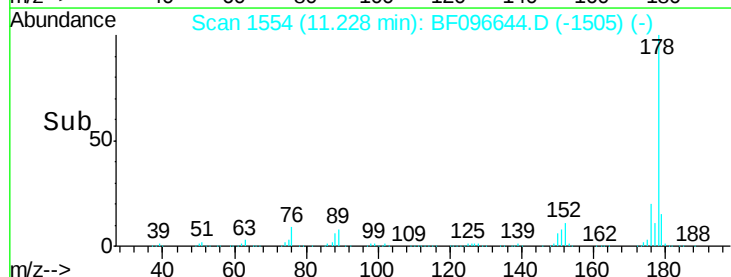
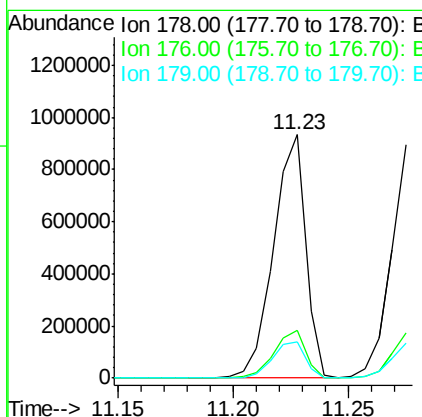
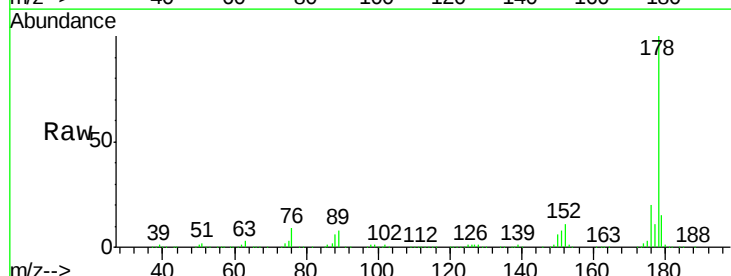
Manual Integrations
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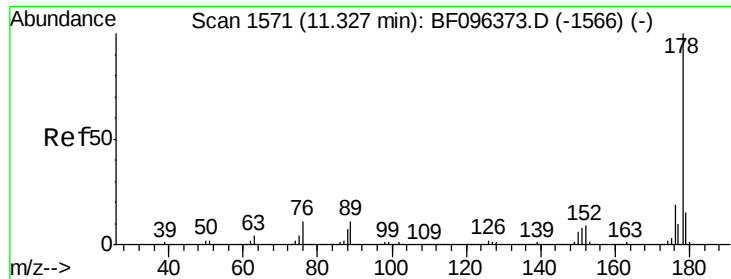
mohammad
 7/12/2017 4:49:40 PM



#70
 Phenanthrene
 Concen: 48.384 ng
 RT: 11.23 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.2	24.4
179	14.9	12.6	19.0





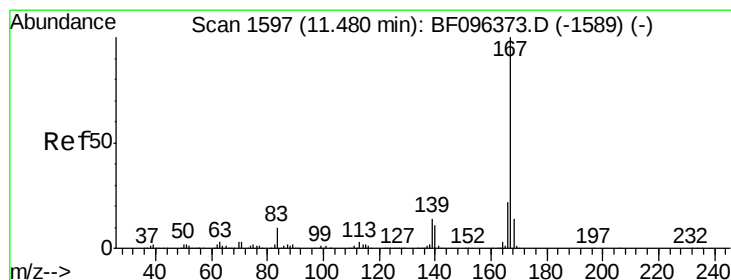
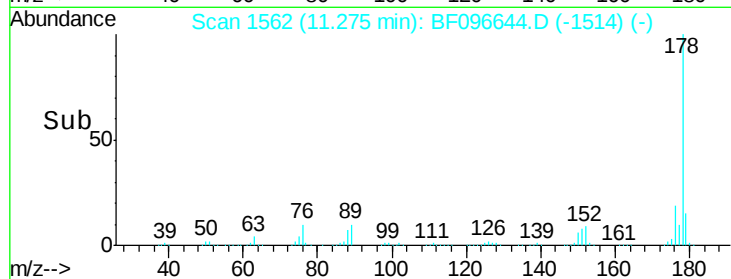
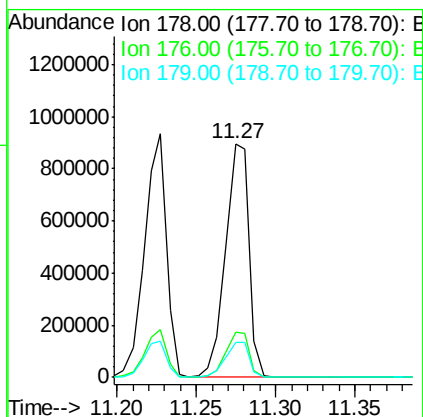
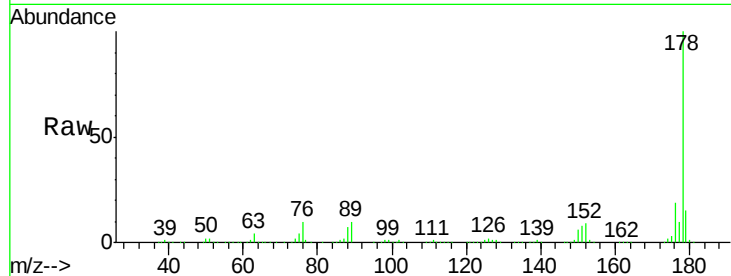
#71
 Anthracene
 Concen: 48.637 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.2	12.7	19.1

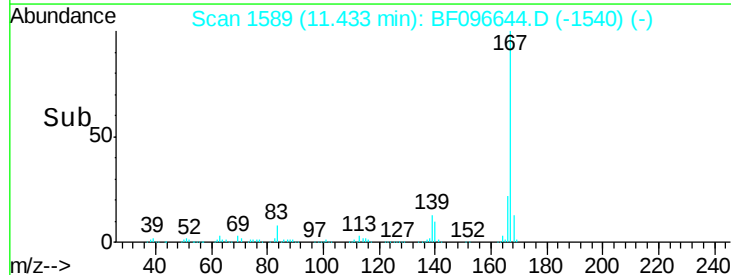
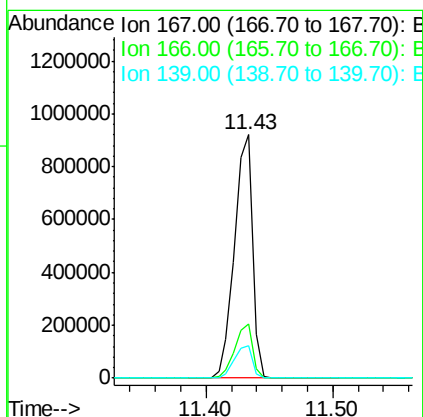
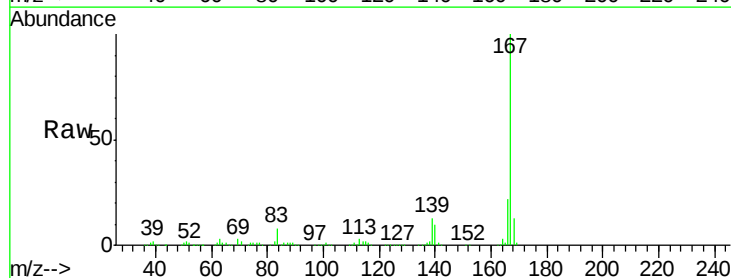
Manual Integrations
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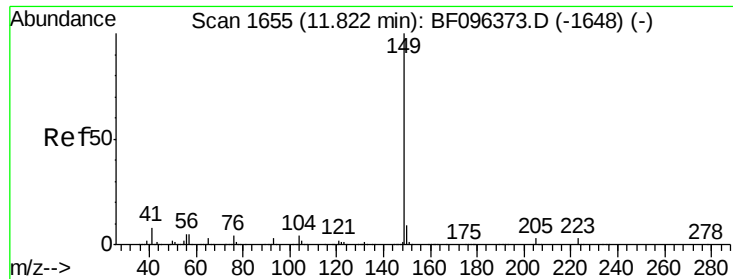
mohammad
 7/12/2017 4:49:40 PM



#72
 Carbazole
 Concen: 47.357 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	18.1	27.1
139	13.4	11.7	17.5





#73

Di-n-butylphthalate

Concen: 45.763 ng

RT: 11.77 min Scan# 1646

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

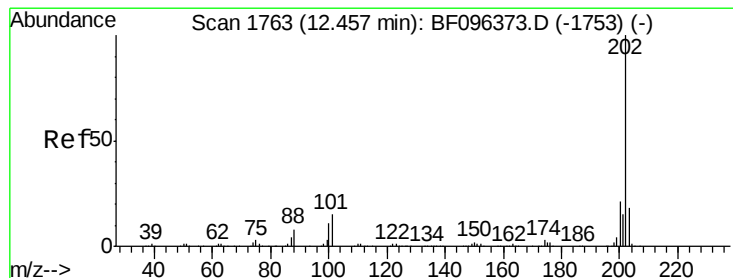
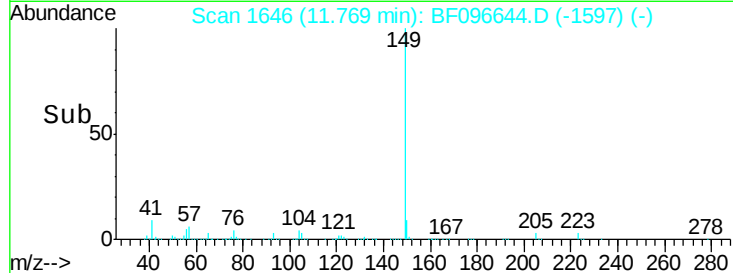
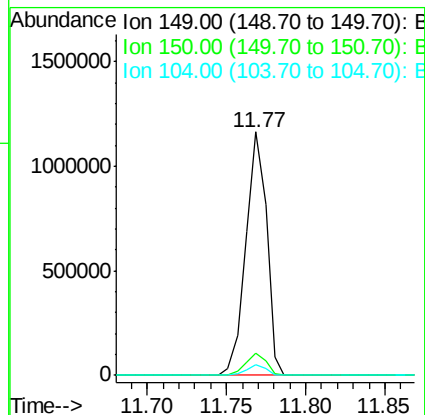
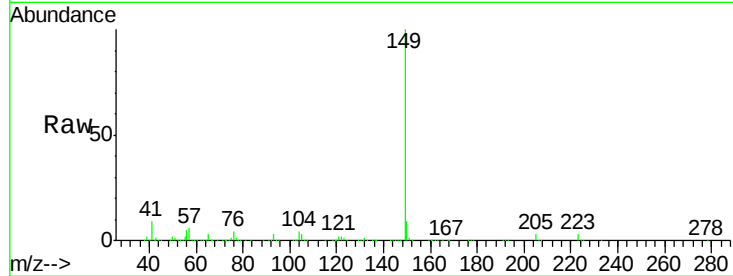
ClientSampleId :

NAA-SANDMSD

Tgt Ion:	149	Resp:	1056678
Ion Ratio	Lower	Upper	
149	100		
150	9.3	7.7	11.5
104	4.4	4.0	6.0

Manual Integrations
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#74

Fluoranthene

Concen: 48.935 ng

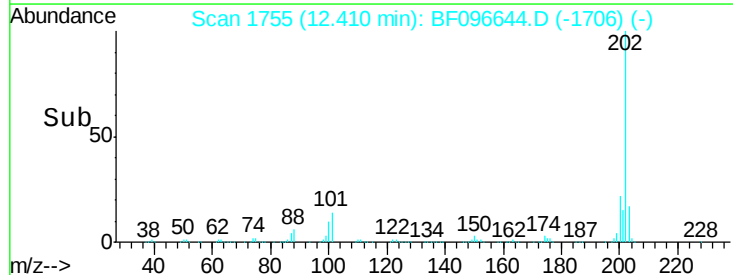
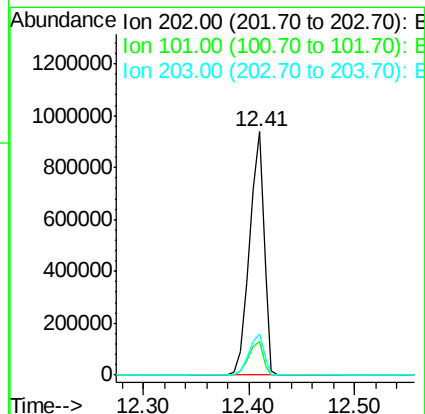
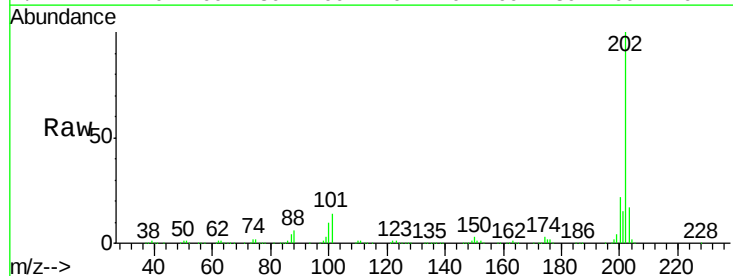
RT: 12.41 min Scan# 1755

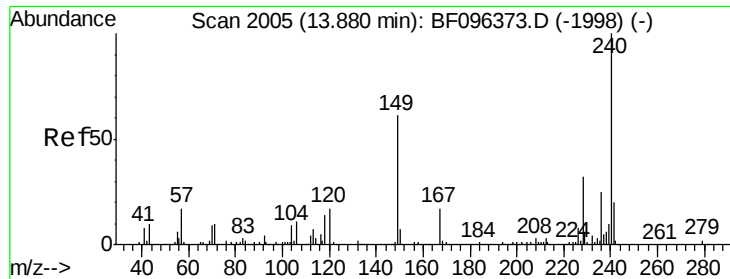
Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	202	Resp:	892476
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	33.2
203	17.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

Tgt Ion: 240 Resp: 217285
Ion Ratio Lower Upper

240 100

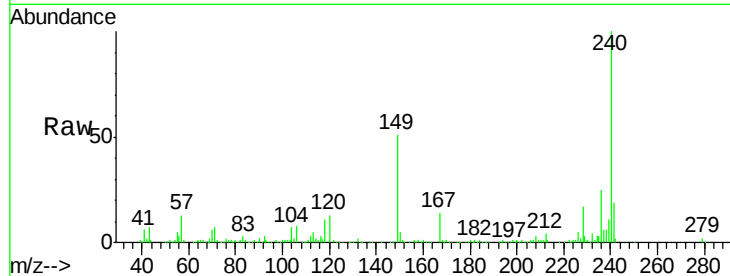
120 12.9 5.8 8.8#

236 25.4 20.5 30.7

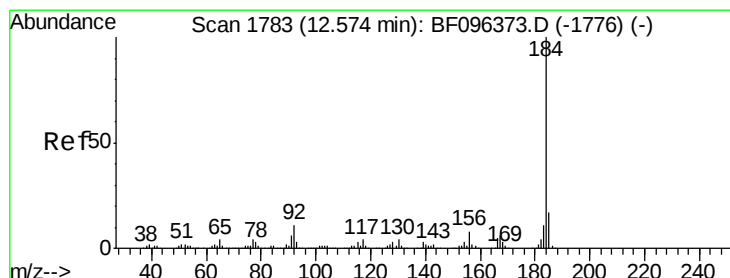
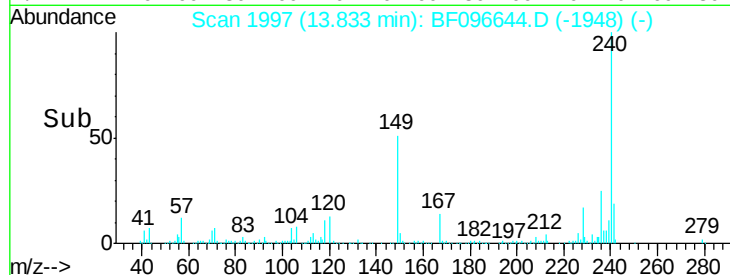
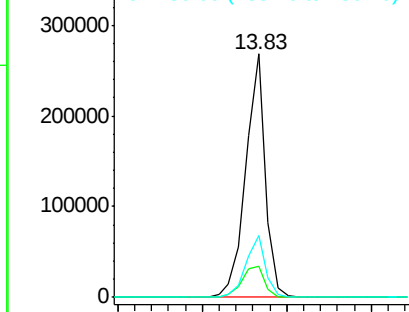
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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 38.300 ng

RT: 12.53 min Scan# 1775

Delta R.T. -0.01 min

Lab File: BF096644.D

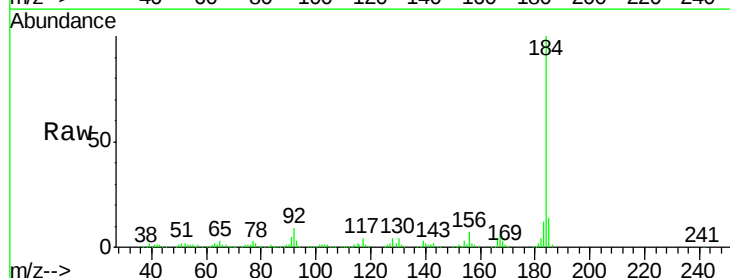
Acq: 11 Jul 2017 15:08

Tgt Ion: 184 Resp: 399319
Ion Ratio Lower Upper

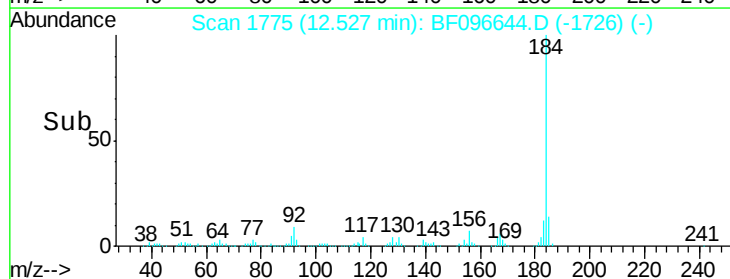
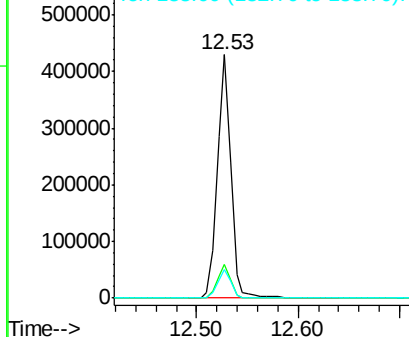
184 100

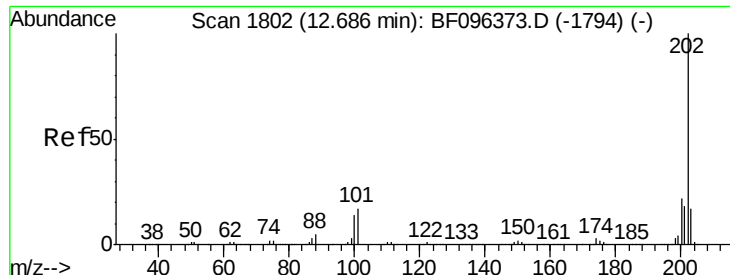
185 13.9 15.5 23.3#

183 11.8 9.8 14.6



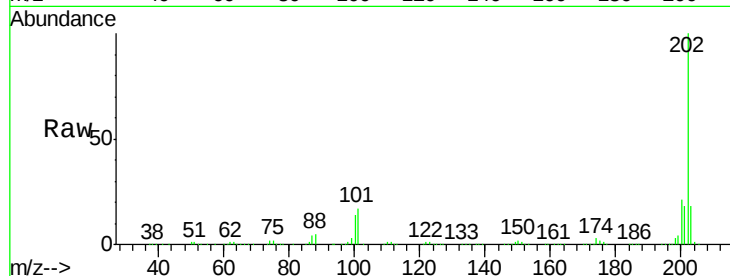
Abundance Ion 184.00 (183.70 to 184.70): E
Ion 185.00 (184.70 to 185.70): E
Ion 183.00 (182.70 to 183.70): E





#77
 Pyrene
 Concen: 52.488 ng
 RT: 12.63 min Scan# 1793
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

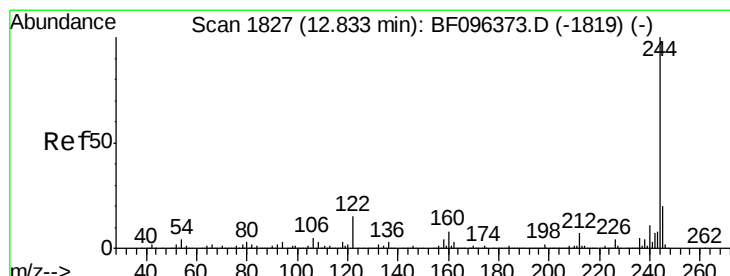
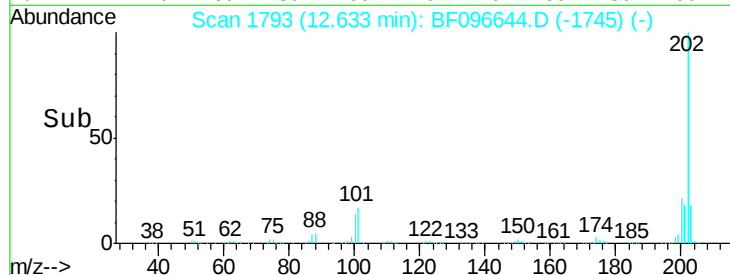
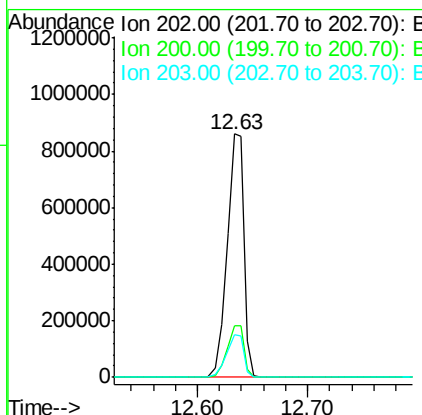
Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	915436		
200	21.4		17.6	26.4
203	17.5		14.4	21.6

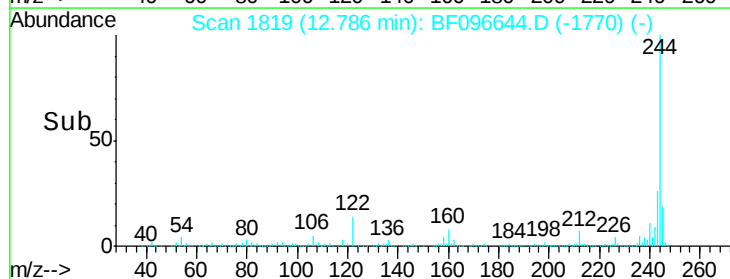
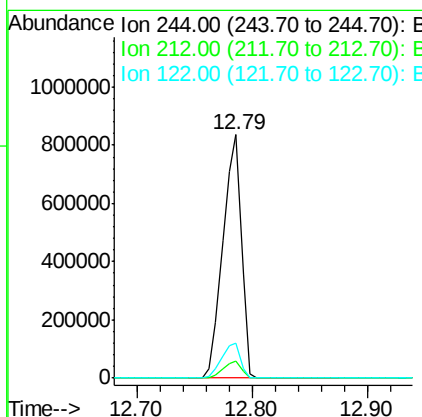
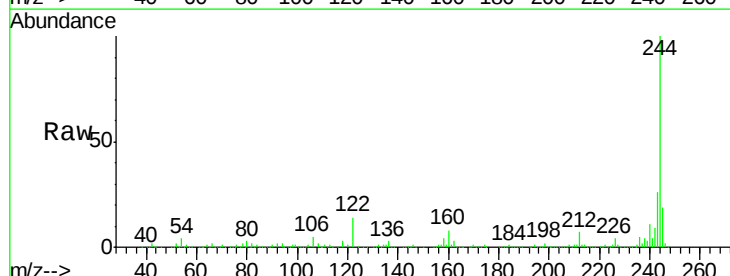
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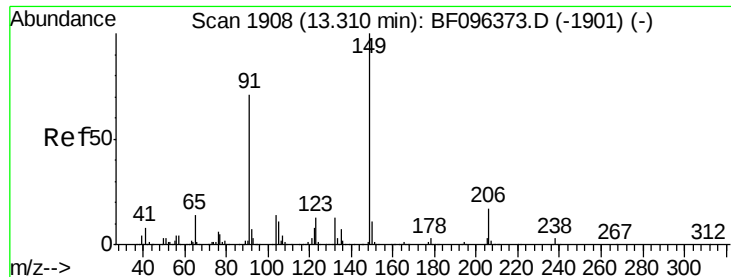
mohammad
 7/12/2017 4:49:40 PM



#78
 Terphenyl-d14
 Concen: 91.244 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	927812		
212	6.8		6.0	9.0
122	14.4		10.3	15.5





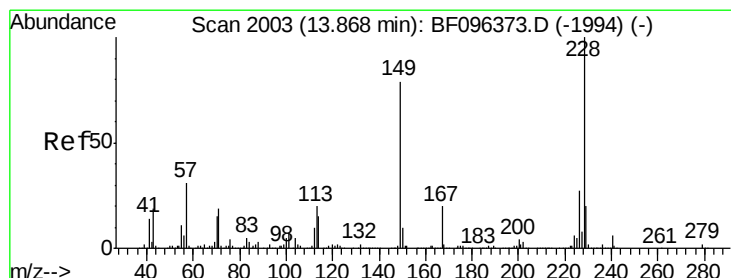
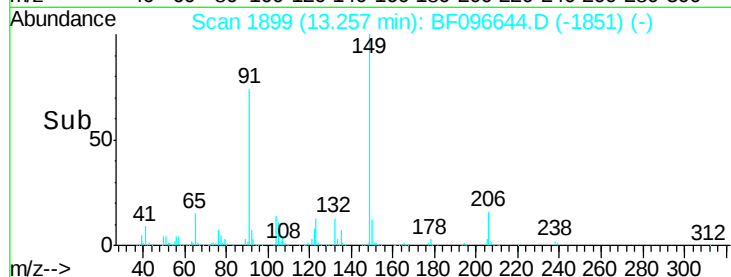
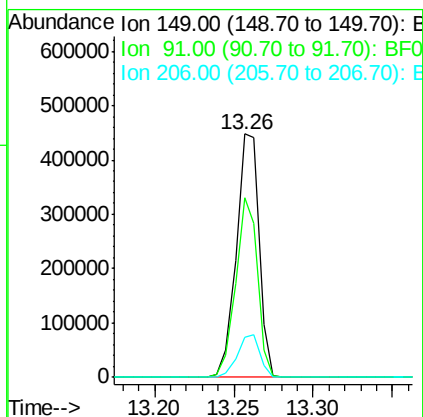
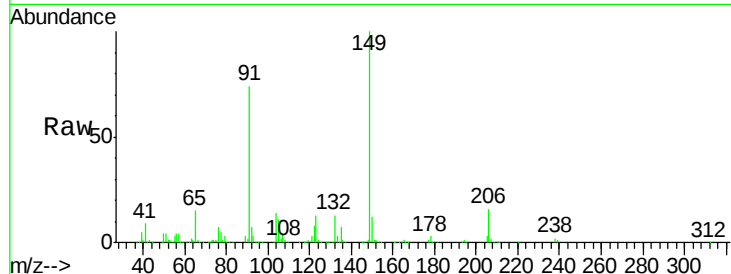
#79
Butylbenzylphthalate
Concen: 50.509 ng
RT: 13.26 min Scan# 1899
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	445933		
91	73.9	45.0	67.4#	
206	16.3	17.0	25.6#	

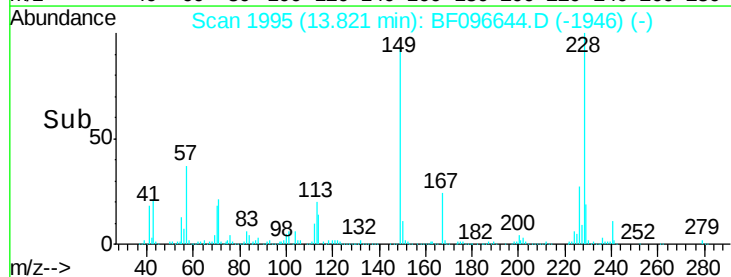
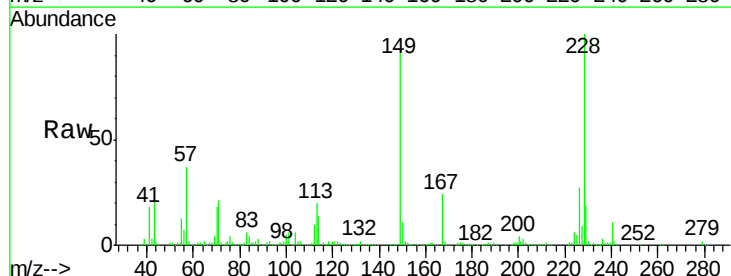
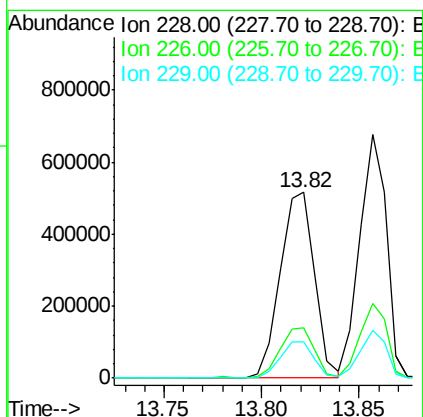
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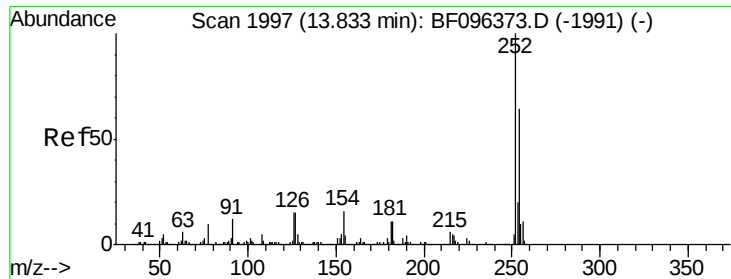
mohammad
7/12/2017 4:49:40 PM



#80
Benzo(a)anthracene
Concen: 49.778 ng
RT: 13.82 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	626336		
226	27.4	22.6	33.8	
229	19.5	16.3	24.5	





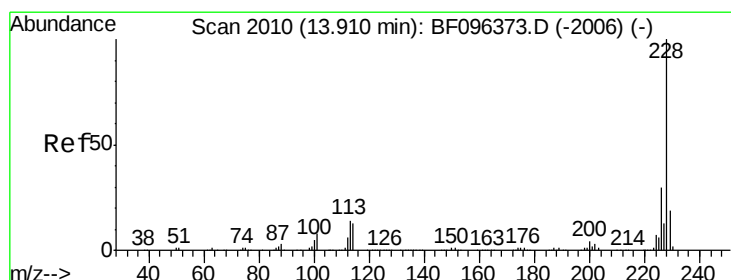
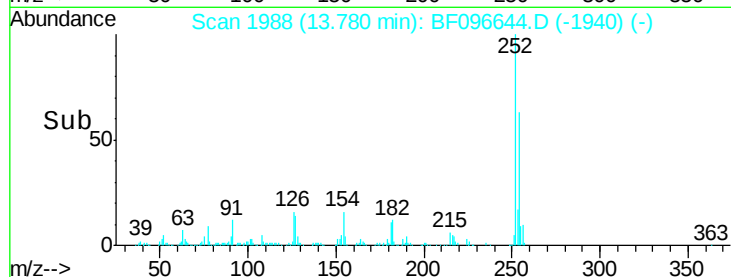
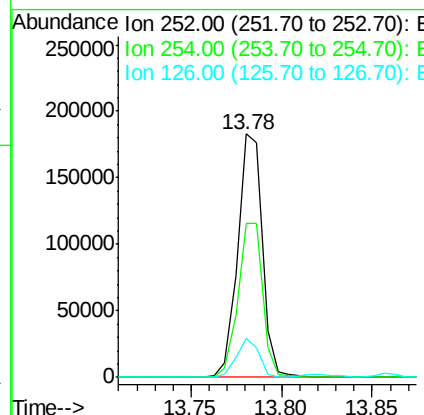
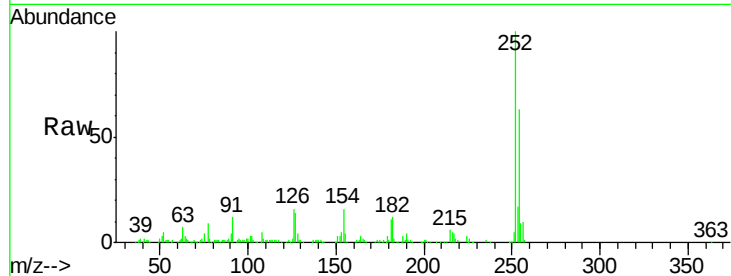
#81
 3,3'-Dichlorobenzidine
 Concen: 33.523 ng
 RT: 13.78 min Scan# 1988
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
252	100		
254	63.3	51.5	77.3
126	16.0	15.8	23.8

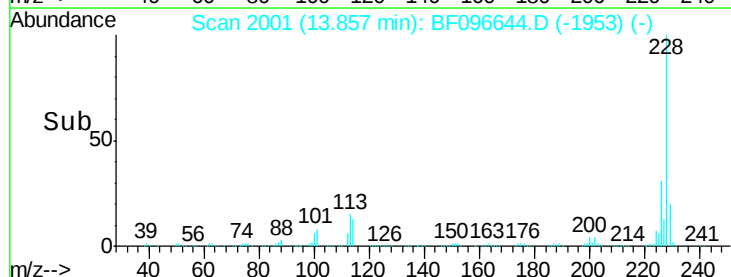
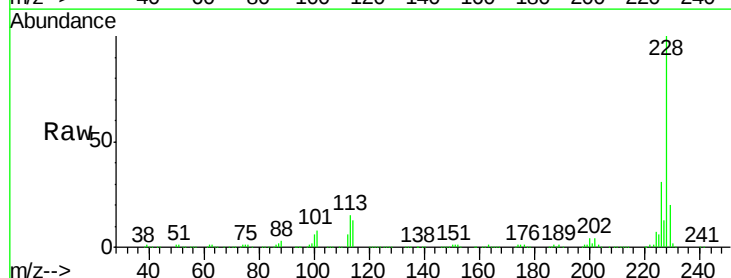
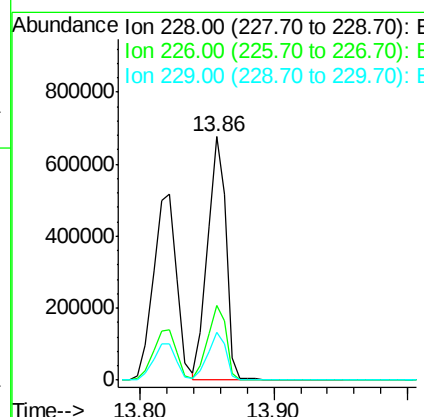
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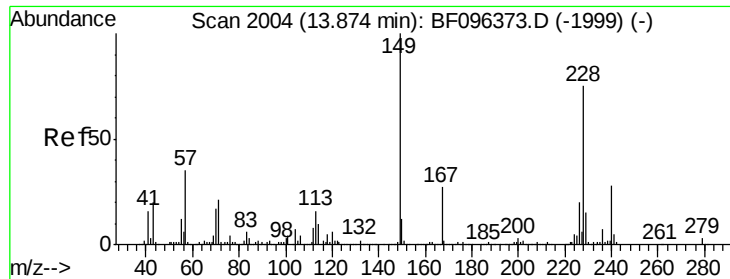
mohammad
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#82
 Chrysene
 Concen: 49.022 ng
 RT: 13.86 min Scan# 2001
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	19.6	15.8	23.6





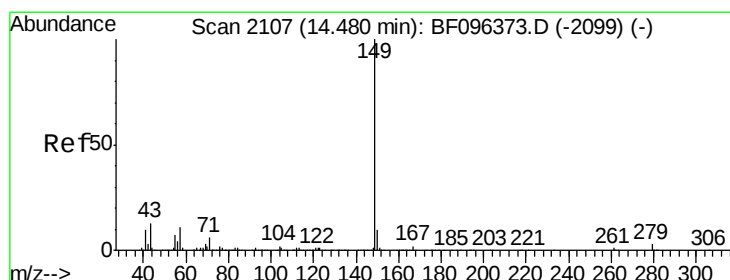
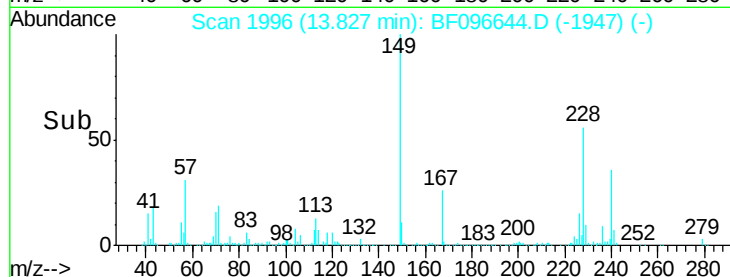
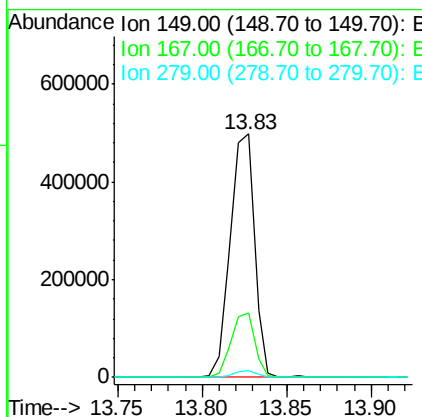
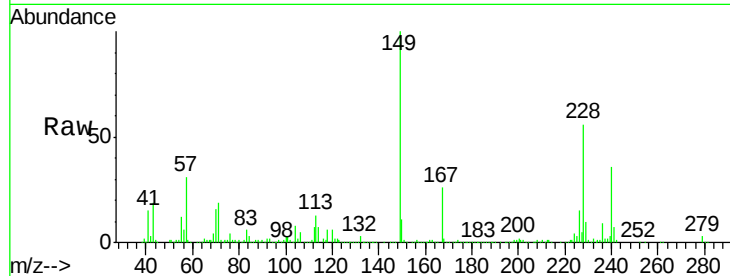
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 50.652 ng
 RT: 13.83 min Scan# 1996
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion:	149	Resp:	499181
Ion Ratio	Lower	Upper	
149	100		
167	26.2	21.0	31.4
279	3.0	1.9	2.9#

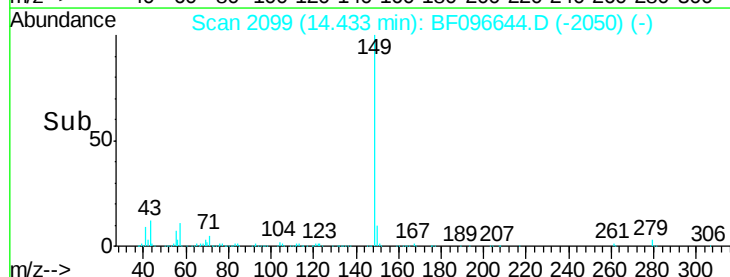
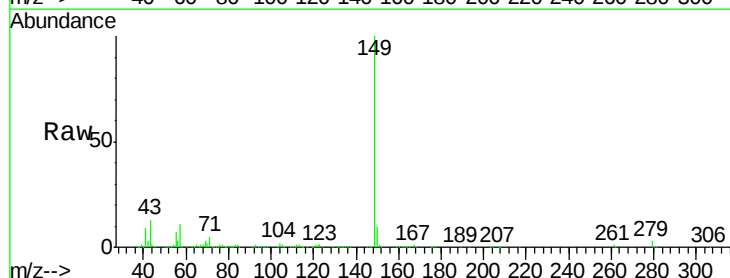
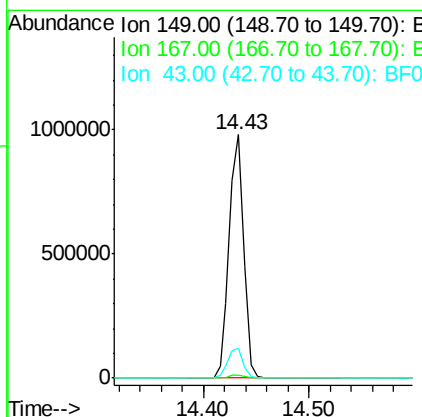
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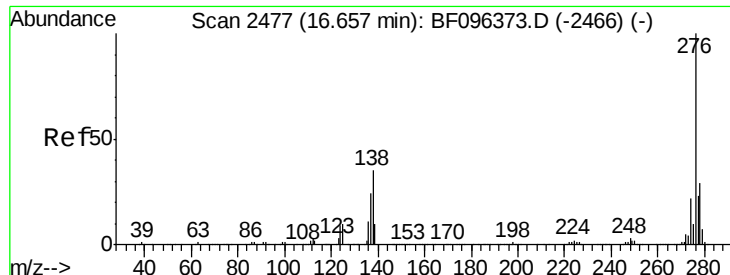
mohammad
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#84
 Di-n-octyl phthalate
 Concen: 48.241 ng
 RT: 14.43 min Scan# 2099
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:	149	Resp:	936228
Ion Ratio	Lower	Upper	
149	100		
167	1.5	1.2	1.8
43	12.7	8.5	12.7





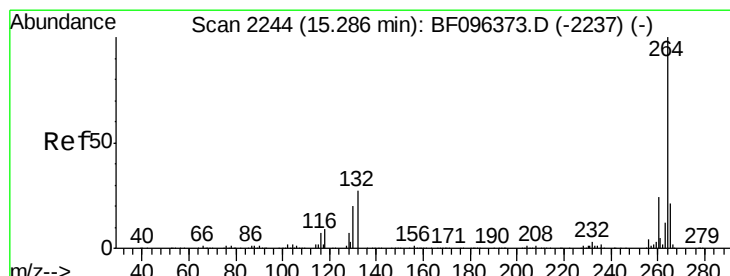
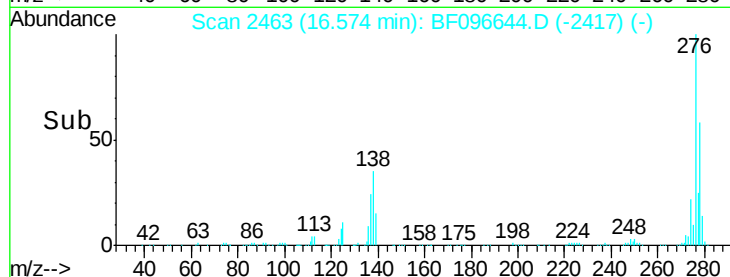
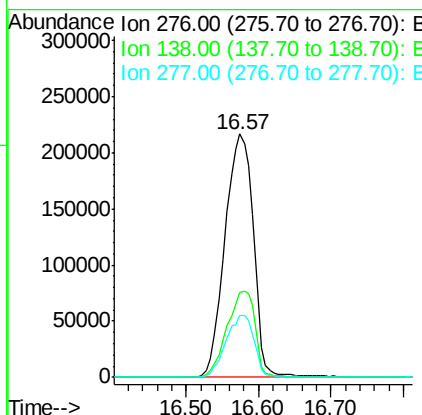
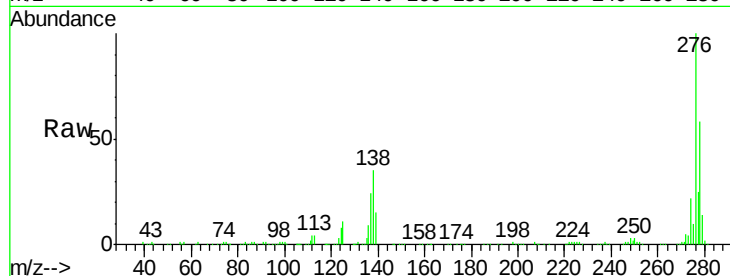
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 56.803 ng
 RT: 16.57 min Scan# 2463
 Delta R.T. -0.03 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
276	100		
138	35.1	27.8	41.6
277	25.1	20.2	30.4

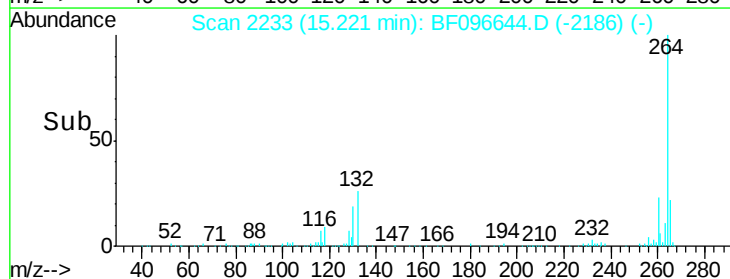
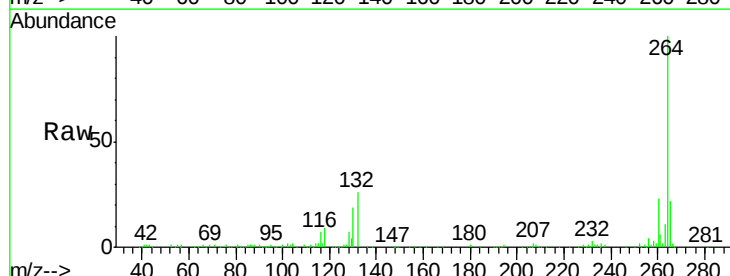
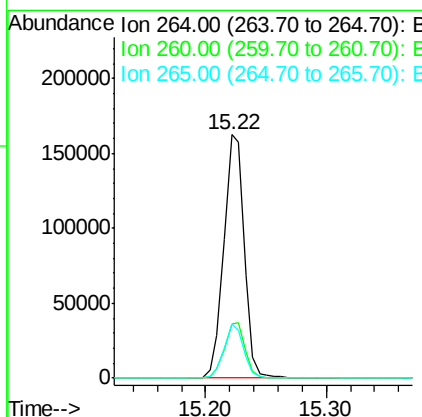
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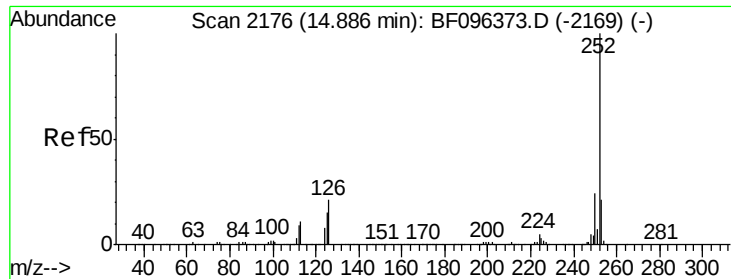
mohammad
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.22 min Scan# 2233
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	22.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 50.850 ng

RT: 14.83 min Scan# 2167

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

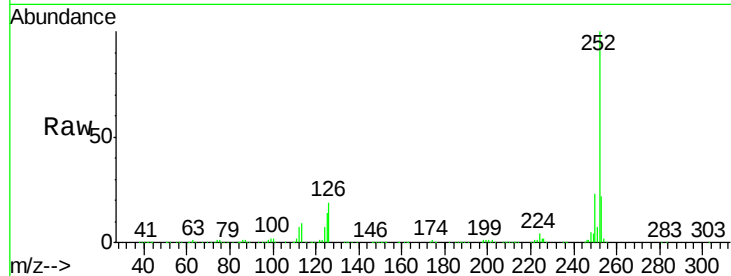
ClientSampleId :

NAA-SANDMSD

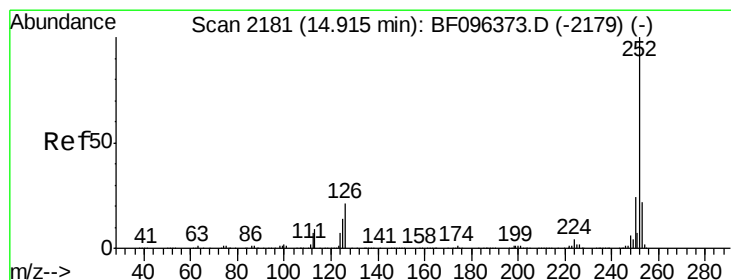
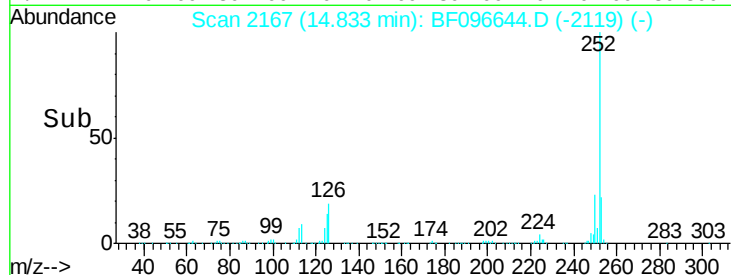
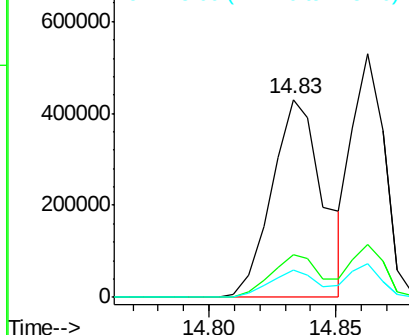
Tgt Ion:	252	Resp:	606545
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.1	27.1
125	14.0	9.8	14.8

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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



#88

Benzo(k)fluoranthene

Concen: 44.785 ng

RT: 14.86 min Scan# 2172

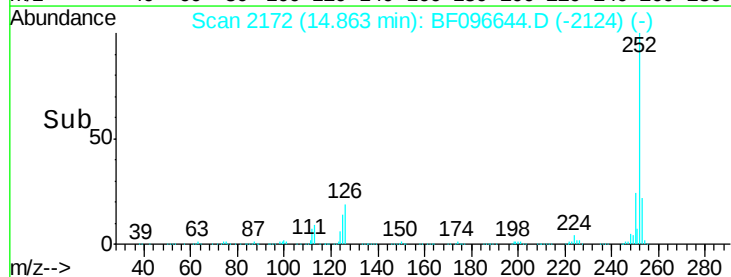
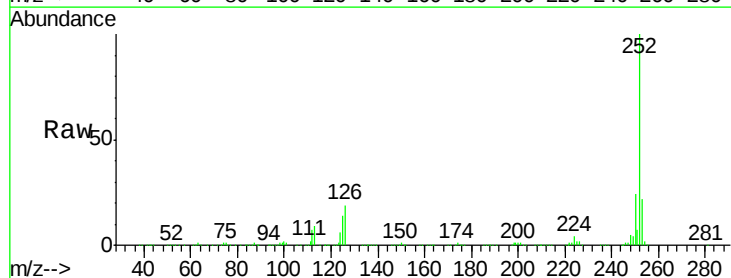
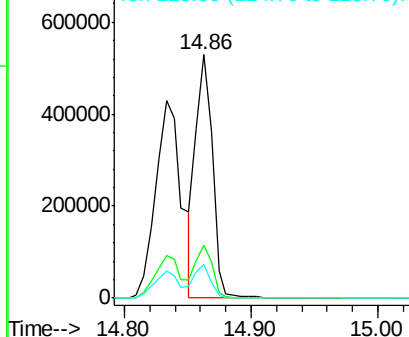
Delta R.T. -0.02 min

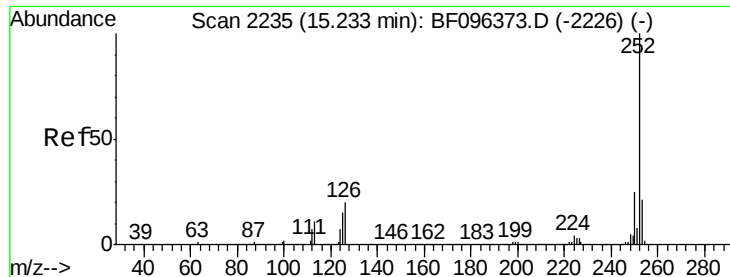
Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:	252	Resp:	477845
Ion Ratio	Lower	Upper	
252	100		
253	21.5	18.4	27.6
125	13.7	13.1	19.7

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





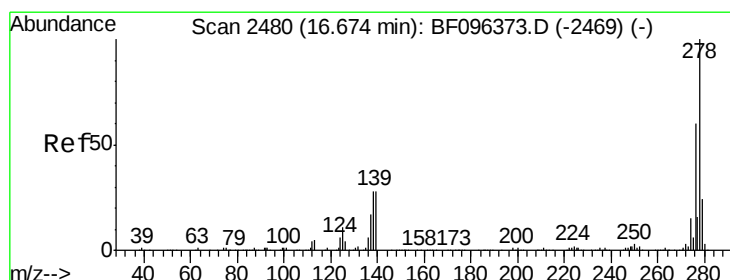
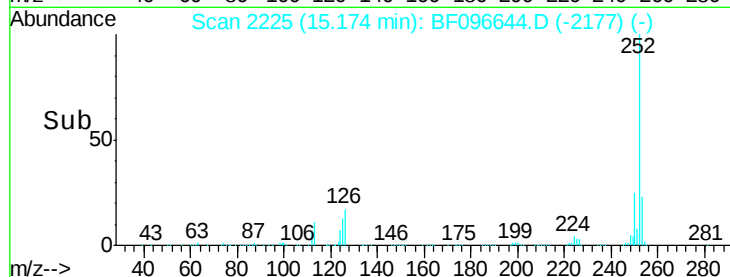
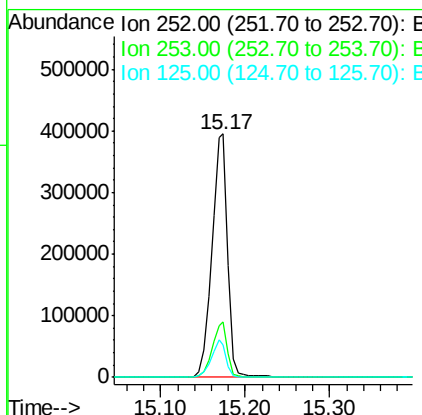
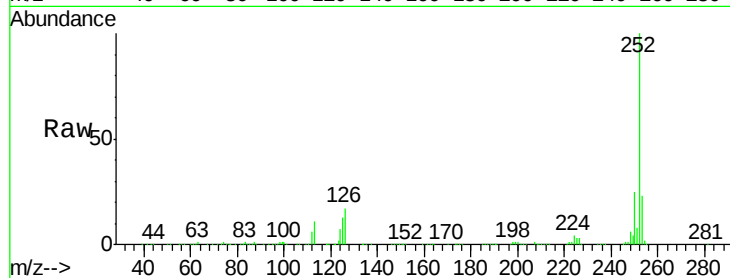
#89
Benzo(a)pyrene
Concen: 49.044 ng
RT: 15.17 min Scan# 2225
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	13.2	11.0	16.4

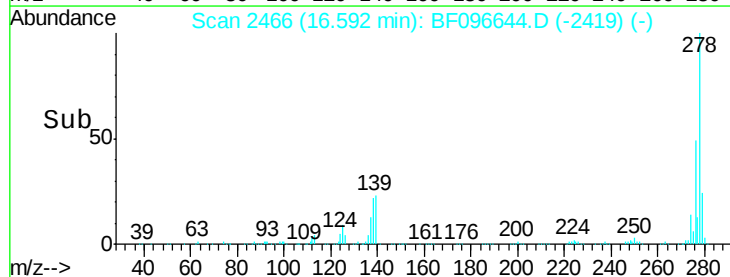
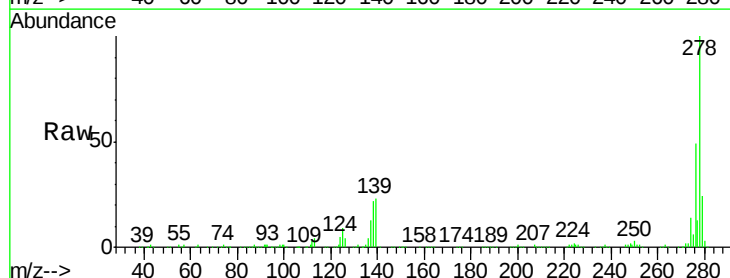
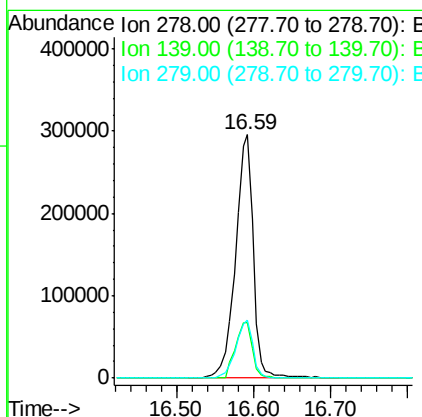
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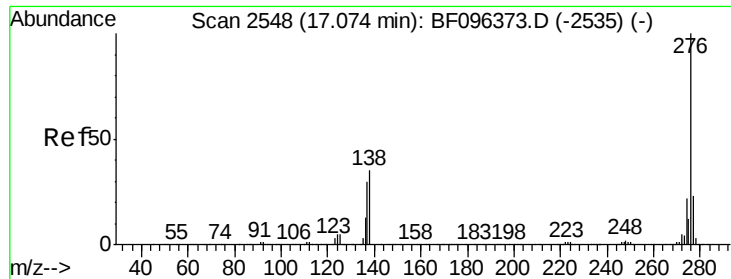
mohammad
7/12/2017 4:49:40 PM



#90
Dibenzo(a,h)anthracene
Concen: 56.808 ng
RT: 16.59 min Scan# 2466
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

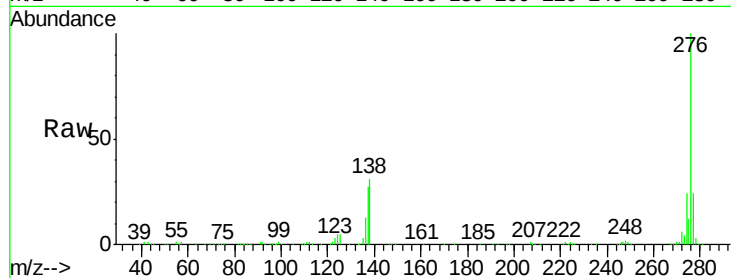
Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.7	16.6	24.8
279	23.9	19.3	28.9





#91
 Benzo(g,h,i)perylene
 Concen: 59.648 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD



Tgt Ion:	276	Resp:	517824
Ion Ratio		Lower	Upper
276	100		
277	23.5	18.6	28.0
138	31.4	25.4	38.0

Manual Integrations
 APPROVED

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