

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112520\
 Data File : BN012741.D
 Acq On : 25 Nov 2020 20:55
 Operator : CG/JU
 Sample : L4485-09
 Misc : MDL-WATER-02
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Manual Integrations
 APPROVED

mohammad
 11/27/2020 11:46:36 AM

Quant Time: Nov 26 01:47:09 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SFAM-EPA-BN112520.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Nov 25 18:19:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	100988	20.00	ng/ul	0.00
20) Naphthalene-d8	10.19	136	422156	20.00	ng/ul	0.00
38) Acenaphthene-d10	14.08	164	279876	20.00	ng/ul	0.00
64) Phenanthrene-d10	16.84	188	598133	20.00	ng/ul	0.00
79) Chrysene-d12	21.06	240	641330	20.00	ng/ul	0.00
88) Perylene-d12	23.16	264	729977	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.96	96	14986	5.34	ng/uL	0.00
4) Pyridine-d5	3.36	84	204151	26.94	ng/ul	0.00
7) Phenol-d5	6.61	99	338591	37.45	ng/ul	0.00
9) Bis-(2-Chloroethyl)ether-d	6.78	67	225038	39.91	ng/ul	0.00
11) 2-Chlorophenol-d4	6.96	132	271683	38.22	ng/ul	0.00
15) 4-Methylphenol-d8	8.13	113	281155	38.18	ng/ul	0.00
21) Nitrobenzene-d5	8.58	128	135330	40.06	ng/ul	0.00
24) 2-Nitrophenol-d4	9.29	143	151103	40.52	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	9.82	165	268054	37.84	ng/ul	0.00
31) 4-Chloroaniline-d4	10.34	131	348032	35.12	ng/ul	0.00
46) Dimethylphthalate-d6	13.50	166	868509	38.16	ng/ul	0.00
49) Acenaphthylene-d8	13.77	160	1070445	40.31	ng/ul	0.00
54) 4-Nitrophenol-d4	14.30	143	140559	34.92	ng/ul	0.00
60) Fluorene-d10	15.09	176	728206	37.90	ng/ul	0.00
65) 4,6-Dinitro-2-methylphenol	15.22	200	143977	35.21	ng/ul	0.00
73) Anthracene-d10	16.94	188	1138747	38.10	ng/ul	0.00
81) Pyrene-d10	19.25	212	1295807	40.53	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.04	264	1411740	35.80	ng/ul	0.00

Target Compounds

					Ovalue
2) 1,4-Dioxane	3.00	88	2182	0.748 ng/uL#	93
5) Pyridine	3.39	79	26595	3.406 ng/ul#	23
6) Benzaldehyde	6.58	77	21467	5.292 ng/ul	91
8) Phenol	6.63	94	28974	3.071 ng/ul	90
10) Bis(2-Chloroethyl)ether	6.87	93	23556	3.140 ng/ul	99
12) 2-Chlorophenol	6.99	128	22006	3.007 ng/ul	98
13) 2-Methylphenol	7.88	108	18391	2.621 ng/ul	87
14) 2,2'-oxybis(1-Chloropropan	7.95	45	33407	3.159 ng/ul#	94
16) Acetophenone	8.25	105	35614	2.913 ng/ul	94
17) N-Nitroso-di-n-propylamine	8.23	70	18354	2.895 ng/ul	95
18) 4-Methylphenol	8.20	108	22776	2.981 ng/ul	89
19) Hexachloroethane	8.48	117	10735	3.052 ng/ul	93
22) Nitrobenzene	8.62	77	31053	3.172 ng/ul	98
23) Isophorone	9.14	82	52641	3.067 ng/ul	99
25) 2-Nitrophenol	9.32	139	12478	3.066 ng/ul	94
26) 2,4-Dimethylphenol	9.39	107	25920	2.944 ng/ul	95
27) Bis(2-Chloroethoxy)methane	9.63	93	27960	2.828 ng/ul	93
29) 2,4-Dichlorophenol	9.84	162	20774	2.972 ng/ul#	81
30) Naphthalene	10.23	128	75426	3.144 ng/ul	96
32) 4-Chloroaniline	10.36	127	28923	2.995 ng/ul	94
33) Hexachlorobutadiene	10.52	225	14217	2.990 ng/ul	95
34) Caprolactam	11.17	113	5347m	2.345 ng/ul	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 4-Chloro-3-methylphenol	11.49	107	20530	2.559	ng/ul	95
36) 2-Methylnaphthalene	11.86	142	50196	2.966	ng/ul	99
37) 1-Methylnaphthalene	12.09	142	47711	2.925	ng/ul#	99
39) 1,2,4,5-Tetrachlorobenzene	12.25	216	26488	3.008	ng/ul	94
40) Hexachlorocyclopentadiene	12.22	237	12216	2.275	ng/ul	97
41) 2,4,6-Trichlorophenol	12.50	196	13915	2.481	ng/ul#	79
42) 2,4,5-Trichlorophenol	12.56	196	15484	2.533	ng/ul	90
43) 1,1'-Biphenyl	12.90	154	67209	2.960	ng/ul	96
44) 2-Chloronaphthalene	12.94	162	52201	2.909	ng/ul	95
45) 2-Nitroaniline	13.16	65	13827	2.352	ng/ul	95
47) Dimethylphthalate	13.55	163	71132	3.053	ng/ul#	95
48) 2,6-Dinitrotoluene	13.67	165	12110	2.627	ng/ul	98
50) Acenaphthylene	13.80	152	85053	3.118	ng/ul	95
51) 3-Nitroaniline	14.00	138	9532	2.531	ng/ul	94
52) Acenaphthene	14.15	153	60234	3.015	ng/ul	93
53) 2,4-Dinitrophenol	14.22	184	4007	1.407	ng/ul	90
55) 4-Nitrophenol	14.32	109	13089	3.112	ng/ul#	81
56) Dibenzofuran	14.49	168	81537	2.953	ng/ul	93
57) 2,4-Dinitrotoluene	14.47	165	16993	2.529	ng/ul#	80
58) 2,3,4,6-Tetrachlorophenol	14.72	232	13838	2.613	ng/ul#	91
59) Diethylphthalate	14.93	149	71430	2.953	ng/ul	96
61) Fluorene	15.14	166	70502	3.021	ng/ul	90
62) 4-Chlorophenyl-phenylether	15.14	204	34033	3.062	ng/ul	96
63) 4-Nitroaniline	15.18	138	10304m	2.705	ng/ul	
66) 4,6-Dinitro-2-methylphenol	15.23	198	13738	3.113	ng/ul#	61
67) N-Nitrosodiphenylamine	15.36	169	54471	2.928	ng/ul	91
68) 4-Bromophenyl-phenylether	16.04	248	19829	2.937	ng/ul	96
69) Hexachlorobenzene	16.15	284	25748	3.249	ng/ul	91
70) Atrazine	16.32	200	17784	2.447	ng/ul#	89
71) Pentachlorophenol	16.49	266	10385	2.136	ng/ul	98
72) Phenanthrene	16.88	178	109399	3.000	ng/ul	97
74) Anthracene	16.97	178	118000	3.191	ng/ul	97
75) 1,2,3,4-Tetrachlorobenzene	12.86	216	26193	3.058	ng/uL	91
76) Pentachlorobenzene	14.40	250	27458	3.029	ng/uL	99
77) Carbazole	17.25	167	89111	2.744	ng/ul	98
78) Di-n-butylphthalate	17.83	149	107620	2.604	ng/ul	98
80) Fluoranthene	18.91	202	121969	2.910	ng/ul	98
82) Pyrene	19.27	202	143511	3.261	ng/ul	98
83) Butylbenzylphthalate	20.21	149	45855	2.449	ng/ul	98
84) 3,3'-Dichlorobenzidine	20.99	252	39140	2.606	ng/ul	95
85) Benzo(a)anthracene	21.04	228	128230	2.993	ng/ul	95
86) Bis(2-ethylhexyl)phthalate	20.99	149	73770	2.433	ng/ul	96
87) Chrysene	21.09	228	126537	3.035	ng/ul	97
89) Di-n-octyl phthalate	21.85	149	121762	2.142	ng/ul	100
90) Benzo(b)fluoranthene	22.54	252	137039	2.888	ng/ul	96
91) Benzo(k)fluoranthene	22.58	252	136431	2.864	ng/ul	98
93) Benzo(a)pyrene	23.07	252	131670	2.982	ng/ul	93
94) Indeno(1,2,3-cd)pyrene	25.24	276	165233	2.930	ng/ul	97
95) Dibenzo(a,h)anthracene	25.25	278	139396	2.928	ng/ul	99
96) Benzo(g,h,i)perylene	25.87	276	138857	2.980	ng/ul	96

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ALS Vial : 12 Sample Multiplier: 1

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BNA_N
ClientSampleId :
MDL-WATER-02

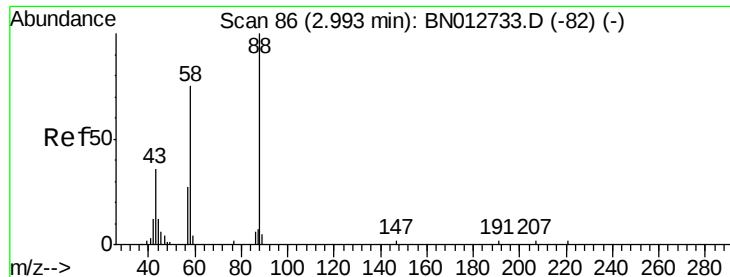
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Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2

1,4-Dioxane

Concen: 0.748 ng/uL

RT: 3.00 min Scan# 87

Delta R.T. 0.01 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

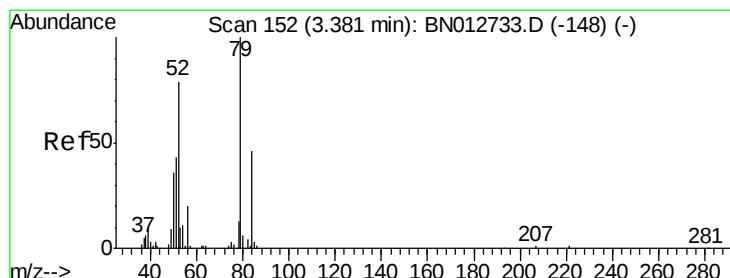
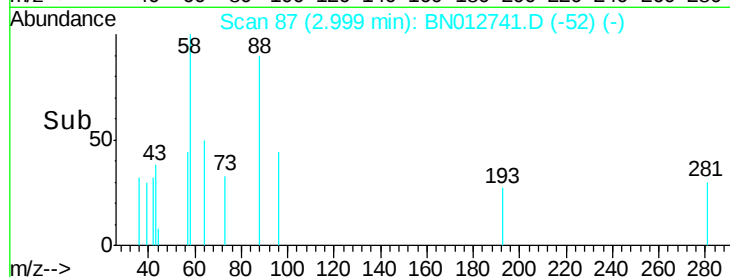
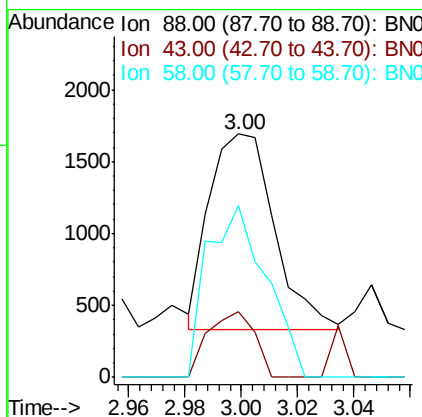
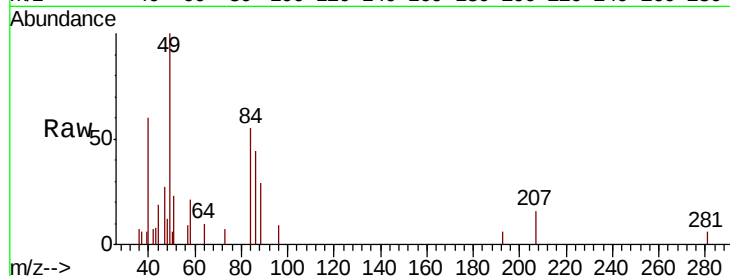
ClientSampleID :

MDL-WATER-02

Tot Ion:	88	Resp:	2182
Ion	Ratio	Lower	Upper
88	100		
43	26.8	29.4	44.0#
58	70.8	58.2	87.4

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#5

Pyridine

Concen: 3.406 ng/uL

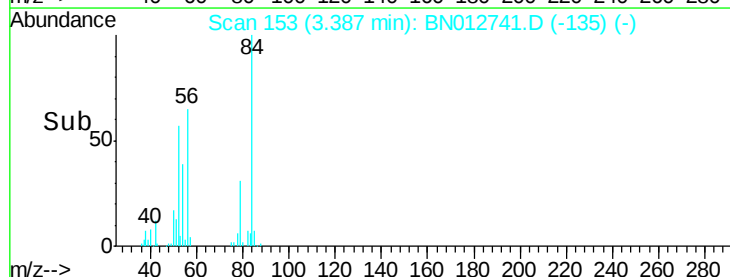
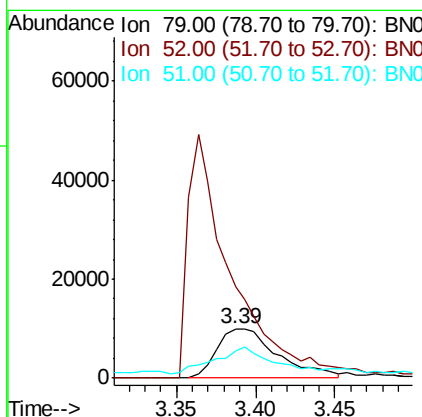
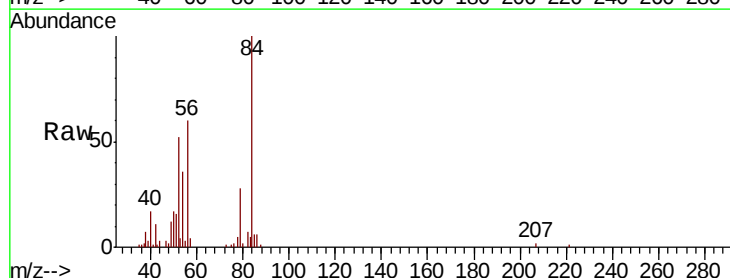
RT: 3.39 min Scan# 153

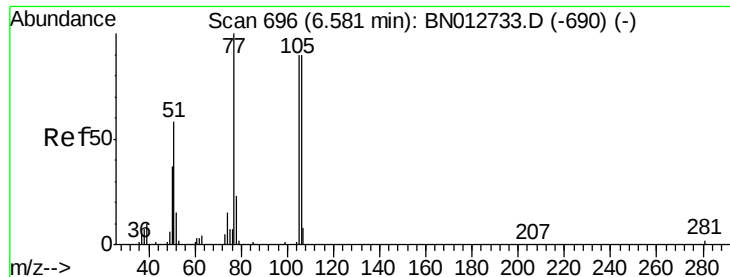
Delta R.T. 0.01 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion:	79	Resp:	26595
Ion	Ratio	Lower	Upper
79	100		
52	184.6	68.7	103.1#
51	56.7	35.5	53.3#





#6

Benzaldehyde

Concen: 5.292 ng/ul

RT: 6.58 min Scan# 696

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

ClientSampled :

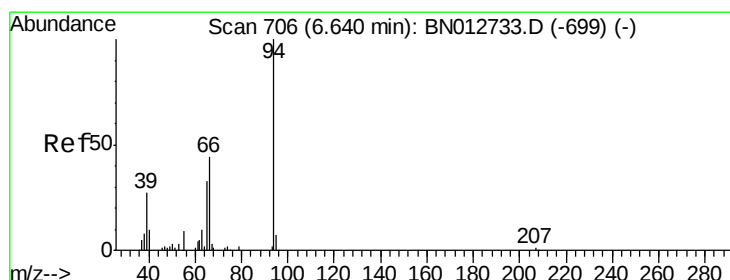
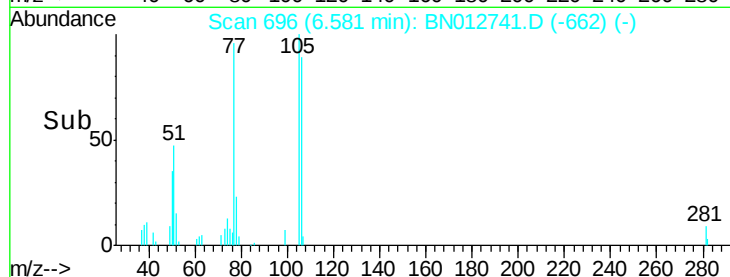
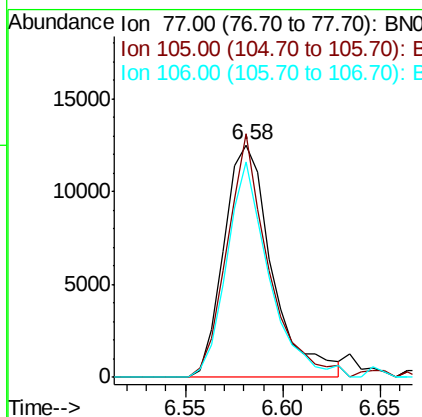
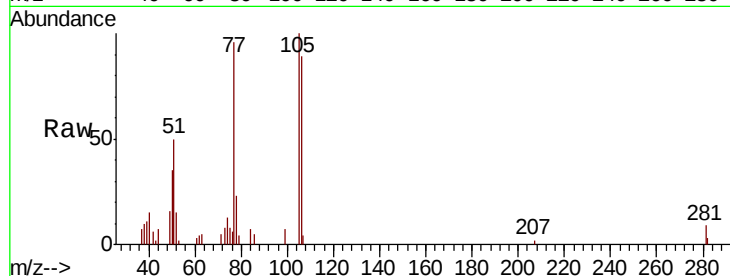
MDL-WATER-02

Tot Ion: 77 Resp: 21467

Ion	Ratio	Lower	Upper
77	100		
105	104.6	72.3	108.5
106	92.6	71.8	107.6

Manual Integrations
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#8

Phenol

Concen: 3.071 ng/ul

RT: 6.63 min Scan# 705

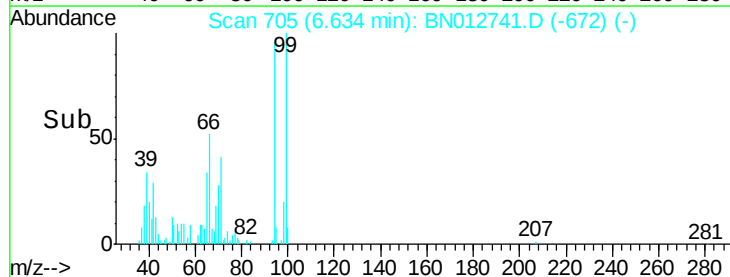
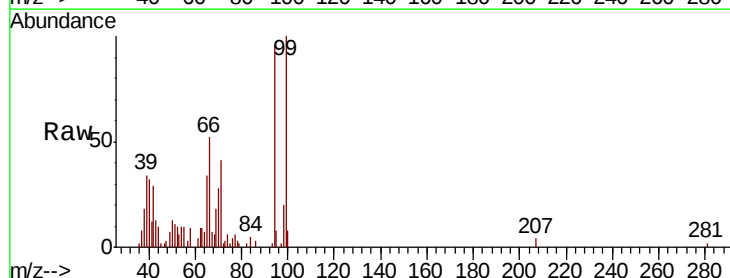
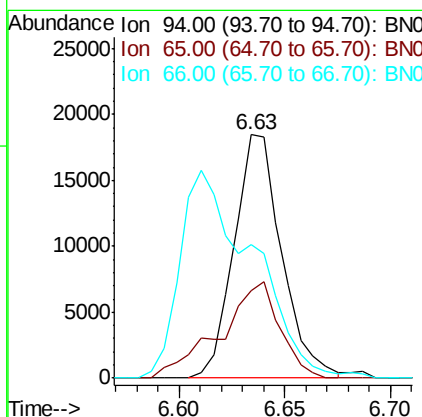
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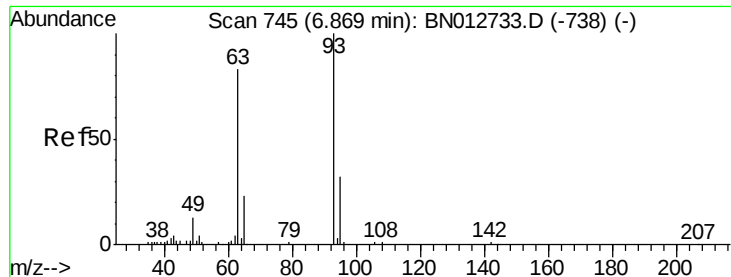
Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion: 94 Resp: 28974

Ion	Ratio	Lower	Upper
94	100		
65	35.8	26.6	39.8
66	54.8	36.9	55.3





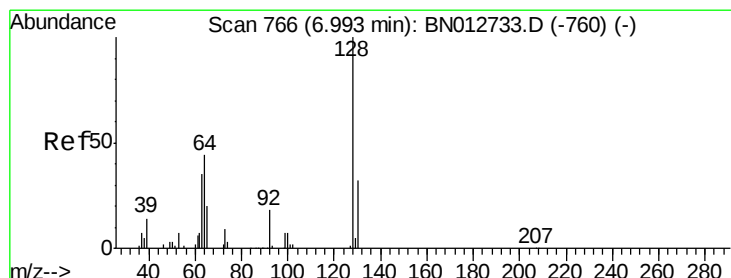
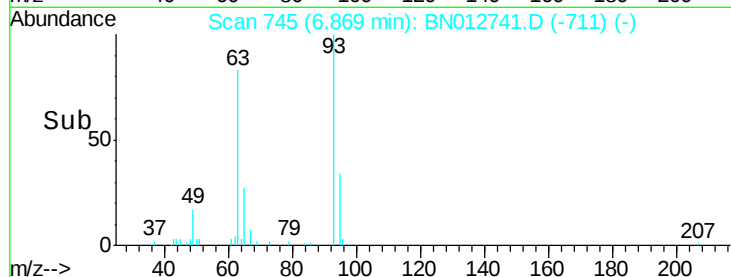
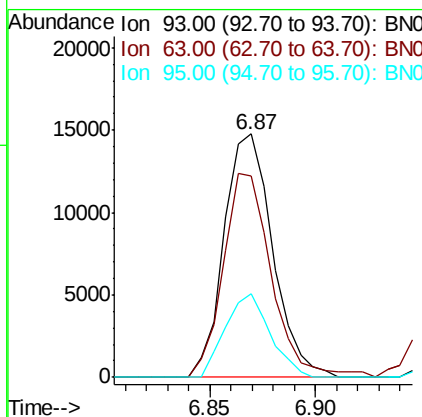
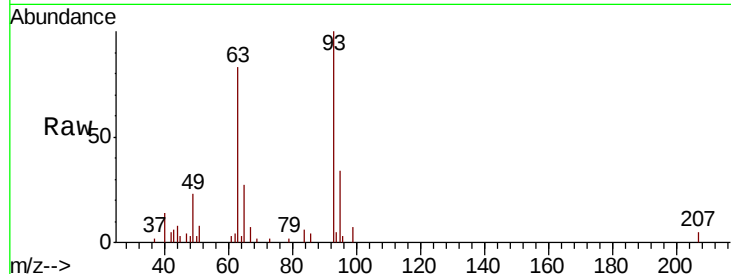
#10
Bis(2-Chloroethyl)ether
Concen: 3.140 ng/ul
RT: 6.87 min Scan# 745
Delta R.T. 0.00 min
Lab File: BN012741.D
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Tot Ion	93	Resp	23556
Ion	Ratio	Lower	Upper
93	100		
63	82.7	66.2	99.2
95	34.3	25.9	38.9

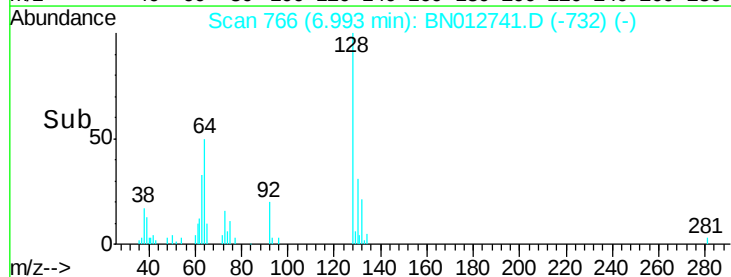
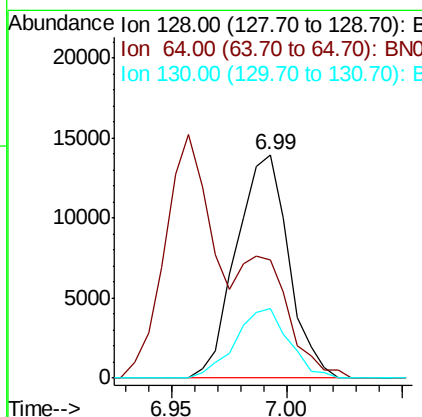
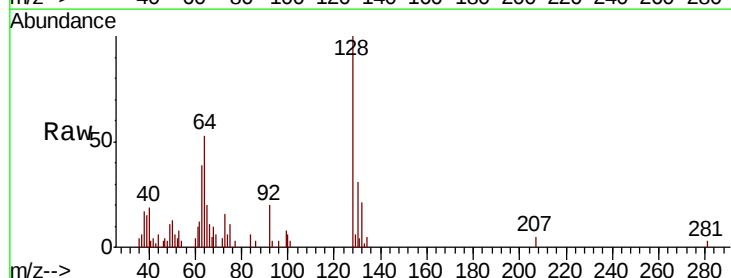
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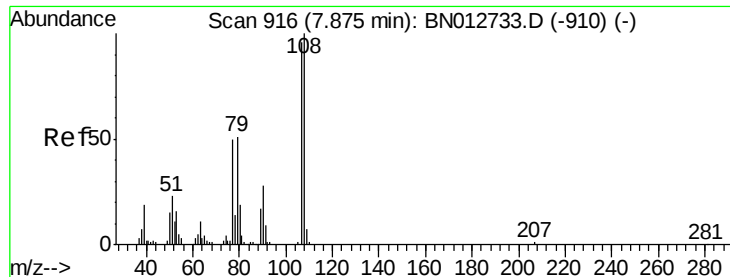
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#12
2-Chlorophenol
Concen: 3.007 ng/ul
RT: 6.99 min Scan# 766
Delta R.T. 0.00 min
Lab File: BN012741.D
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Tgt Ion	128	Resp	22006
Ion	Ratio	Lower	Upper
128	100		
64	52.8	41.0	61.6
130	30.9	25.7	38.5





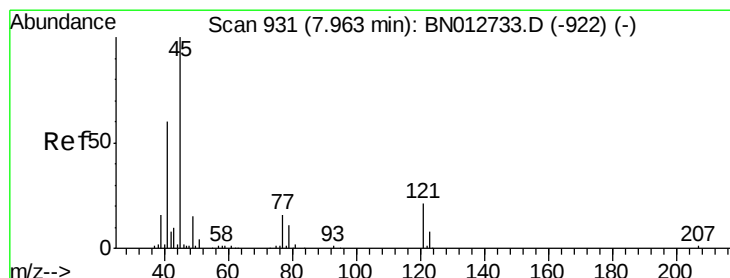
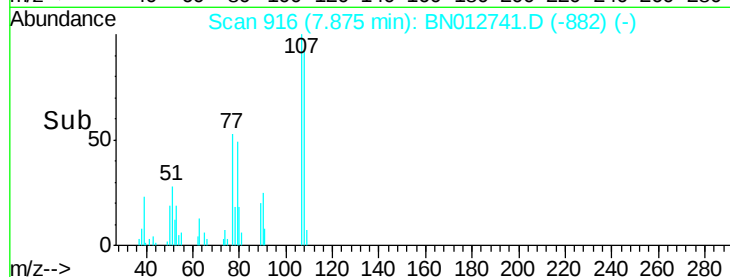
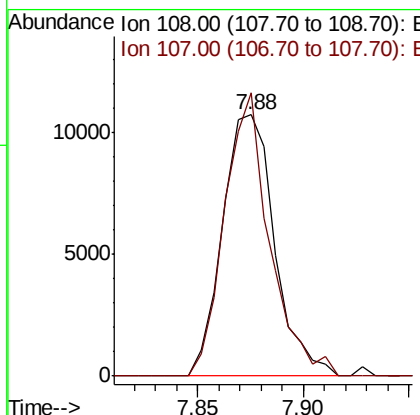
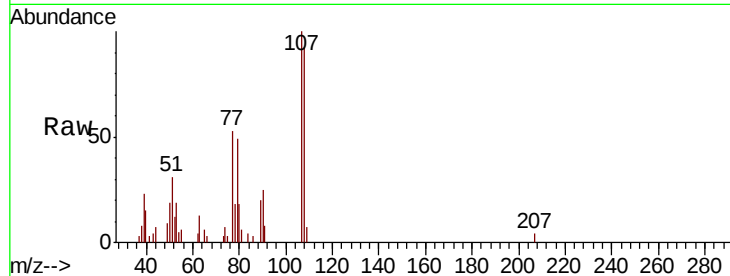
#13
2-Methylphenol
Concen: 2.621 ng/ul
RT: 7.88 min Scan# 916
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
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ClientSampled :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
108	100		
107	108.4	76.5	114.7

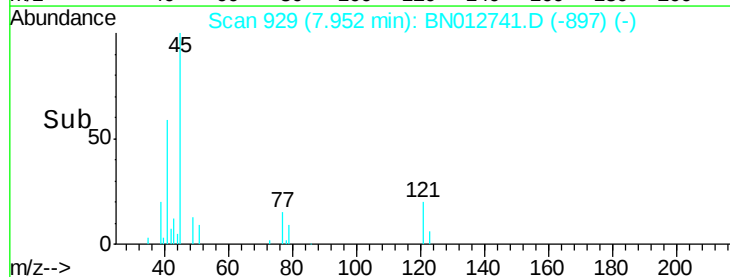
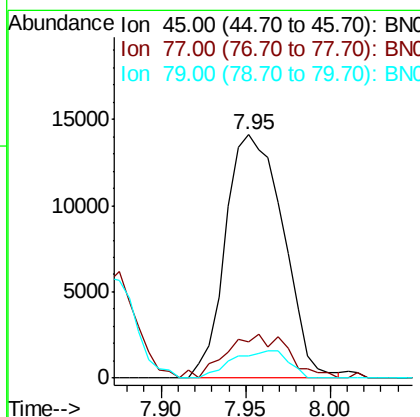
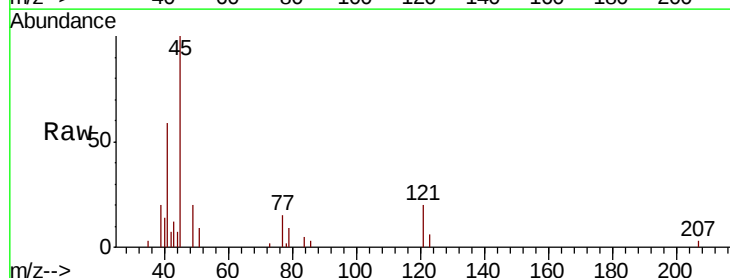
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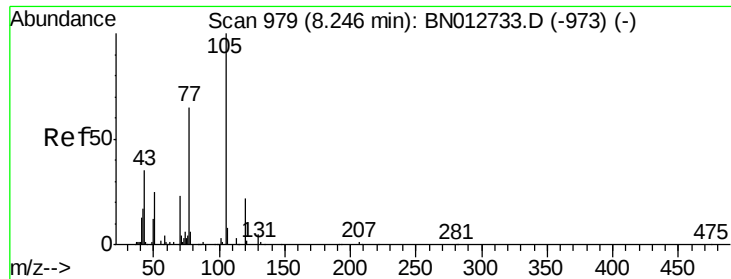
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#14
2,2'-oxybis(1-Chloropropane)
Concen: 3.159 ng/ul
RT: 7.95 min Scan# 929
Delta R.T. -0.01 min
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Tgt Ion	Ratio	Lower	Upper
45	100		
77	14.8	13.1	19.7
79	8.9	9.8	14.6





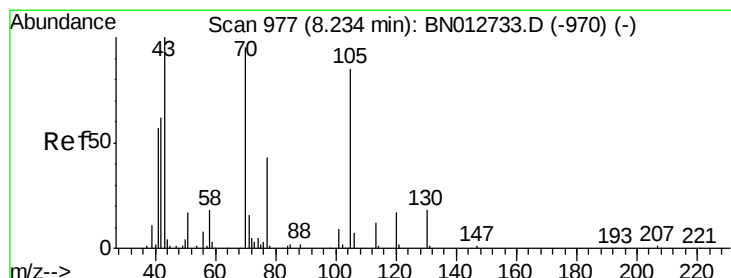
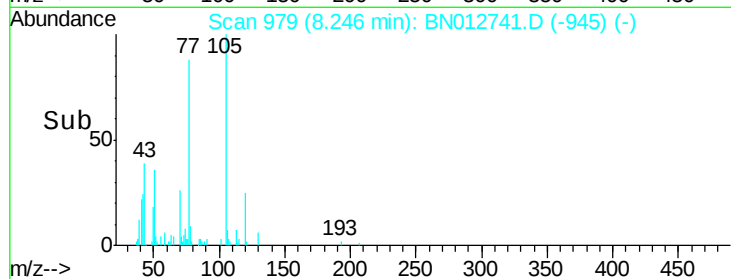
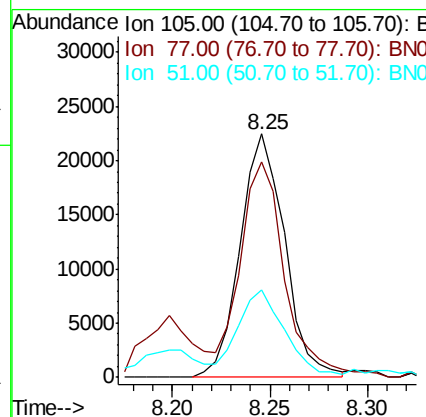
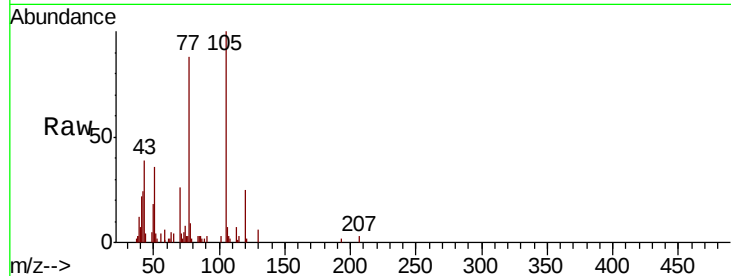
#16
Acetophenone
Concen: 2.913 ng/ul
RT: 8.25 min Scan# 979
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion:	105	Resp:	35614
Ion Ratio	Lower	Upper	
105	100		
77	88.4	66.3	99.5
51	35.8	26.4	39.6

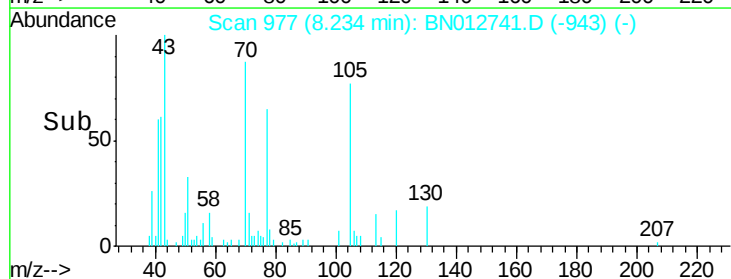
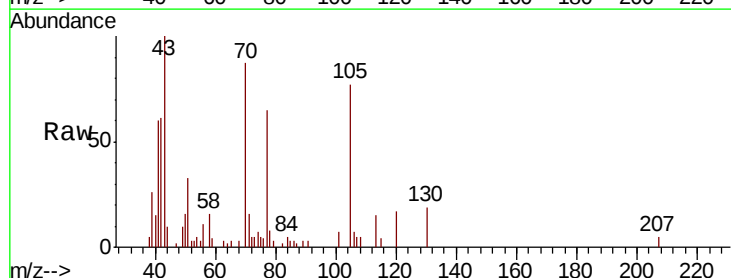
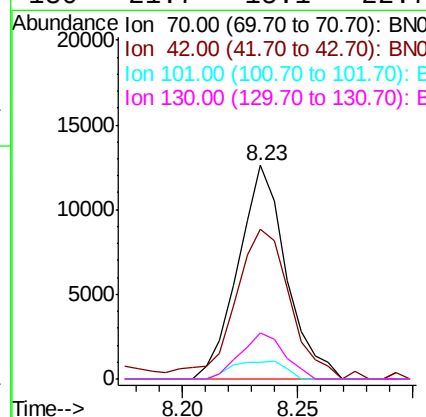
Manual Integrations
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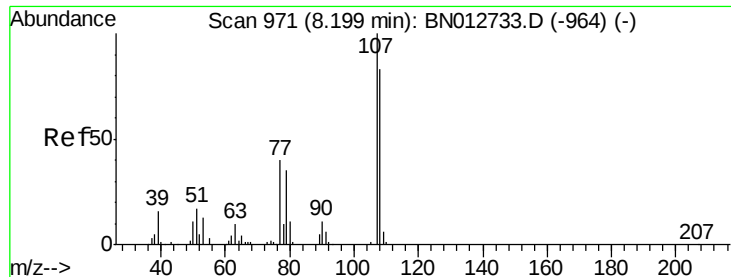
mohammad
11/27/2020 11:46:36 AM



#17
N-Nitroso-di-n-propylamine
Concen: 2.895 ng/ul
RT: 8.23 min Scan# 977
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion:	70	Resp:	18354
Ion Ratio	Lower	Upper	
70	100		
42	70.4	53.7	80.5
101	7.7	7.7	11.5
130	21.7	15.1	22.7





#18

4-Methylphenol

Concen: 2.981 ng/ul

RT: 8.20 min Scan# 971

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-02

Tot Ion:108 Resp: 22776

Ion Ratio Lower Upper

108 100

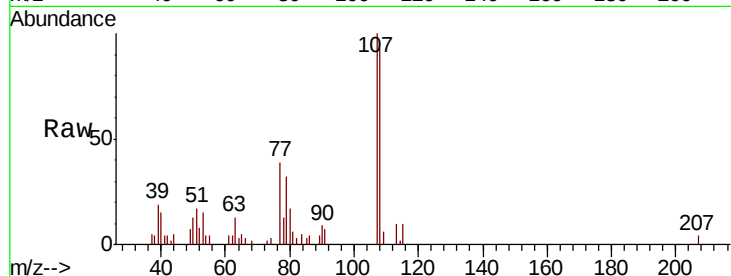
107 107.8 95.9 143.9

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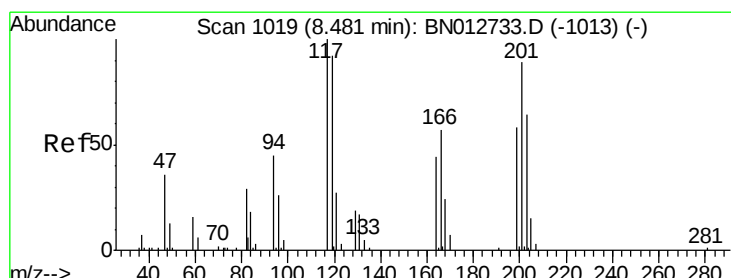
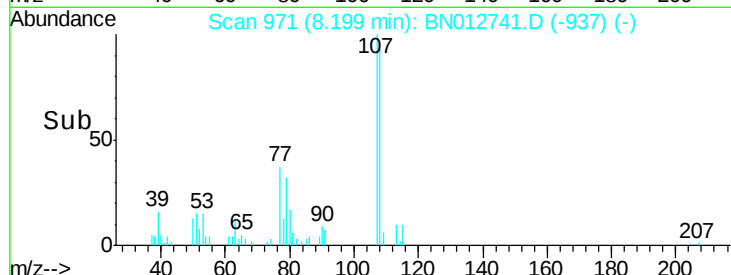
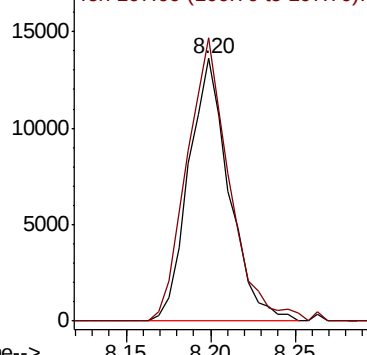
mohammad

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Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#19

Hexachloroethane

Concen: 3.052 ng/ul

RT: 8.48 min Scan# 1019

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

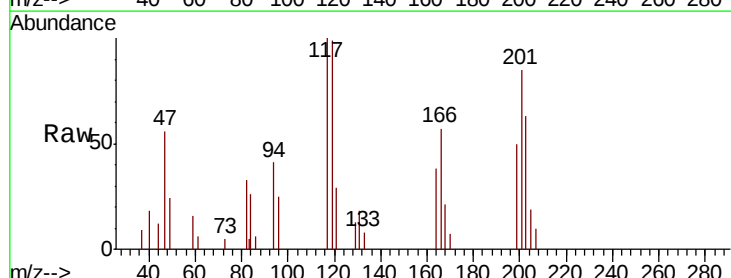
Tgt Ion:117 Resp: 10735

Ion Ratio Lower Upper

117 100

201 85.2 71.0 106.4

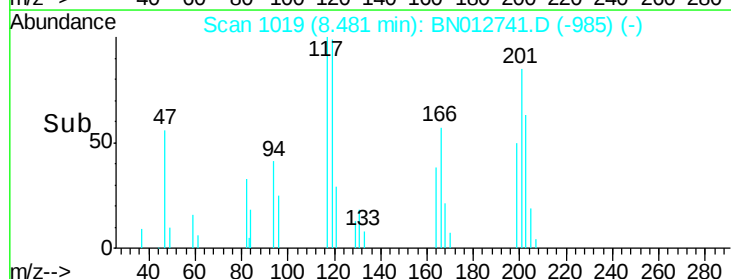
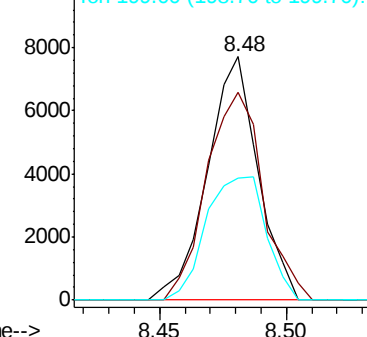
199 50.1 46.7 70.1

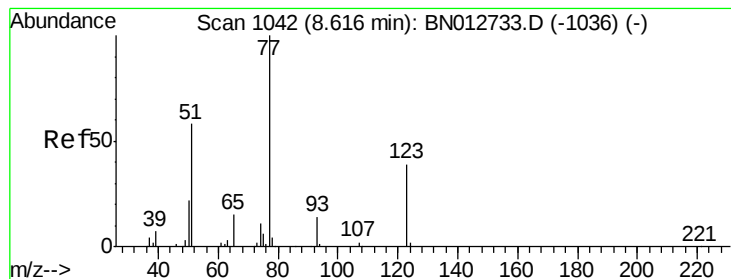


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#22

Nitrobenzene

Concen: 3.172 ng/ul

RT: 8.62 min Scan# 1042

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

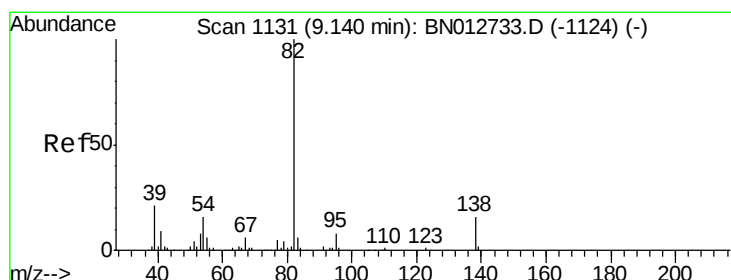
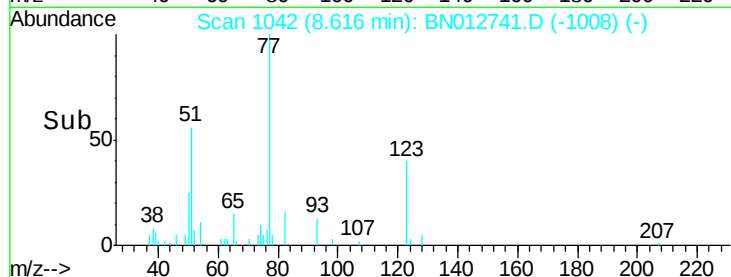
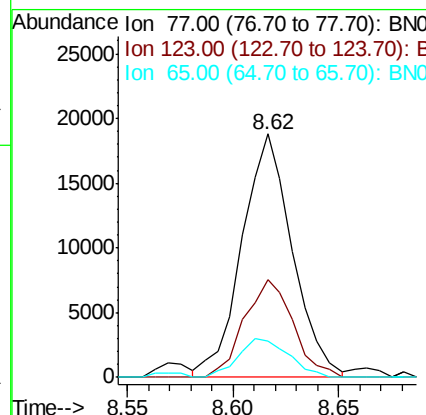
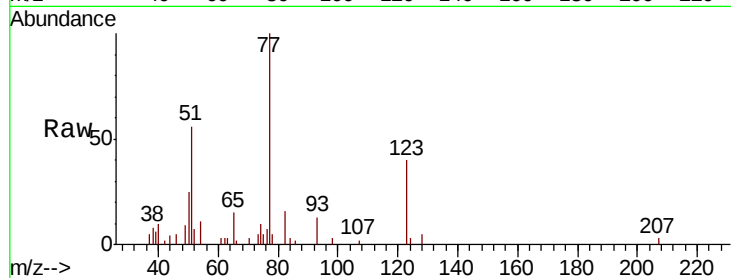
ClientSampleId :

MDL-WATER-02

Tot Ion:	77	Resp:	31053
Ion Ratio	Lower	Upper	
77	100		
123	40.2	31.3	46.9
65	15.1	11.7	17.5

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#23

Isophorone

Concen: 3.067 ng/ul

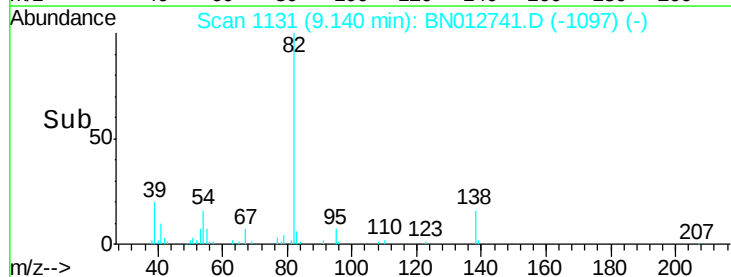
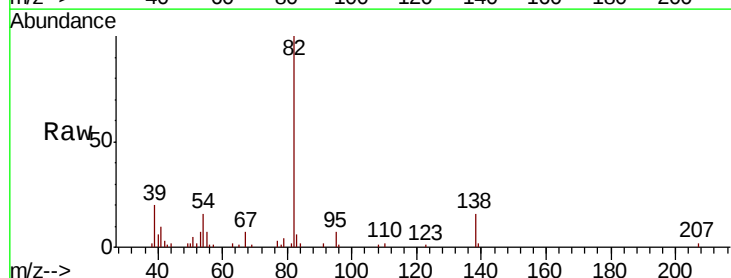
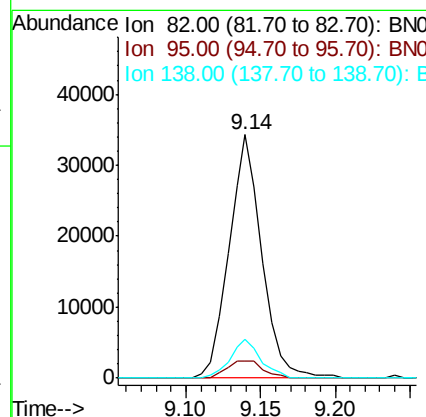
RT: 9.14 min Scan# 1131

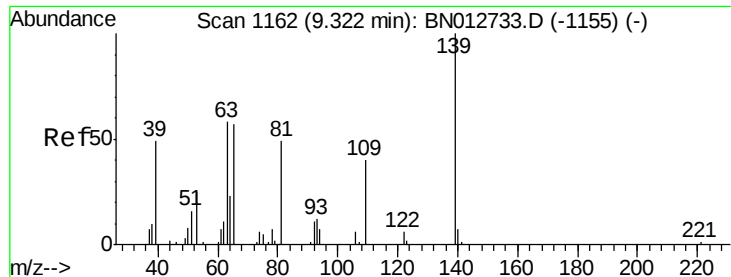
Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion:	82	Resp:	52641
Ion Ratio	Lower	Upper	
82	100		
95	7.2	6.5	9.7
138	16.0	12.6	19.0





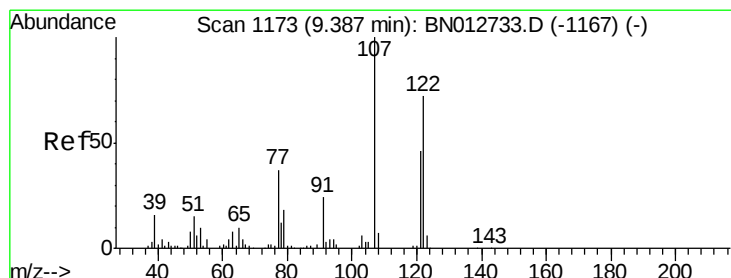
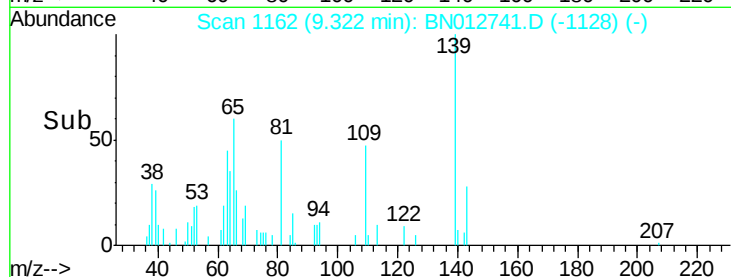
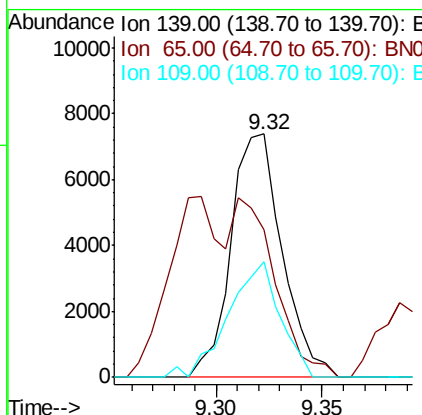
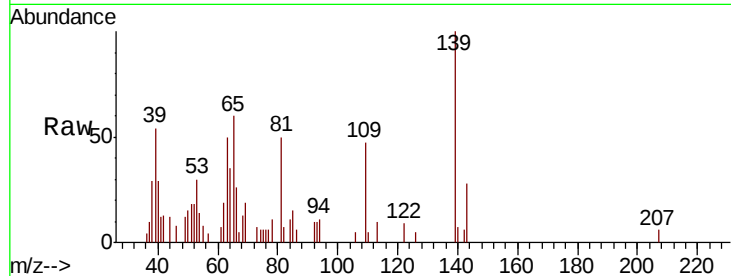
#25
2-Nitrophenol
Concen: 3.066 ng/ul
RT: 9.32 min Scan# 1162
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
139	100		
65	60.5	47.5	71.3
109	47.5	31.8	47.8

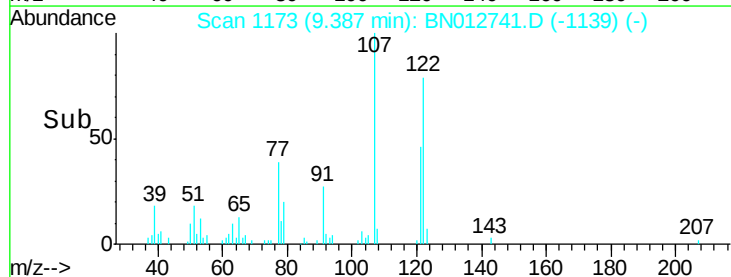
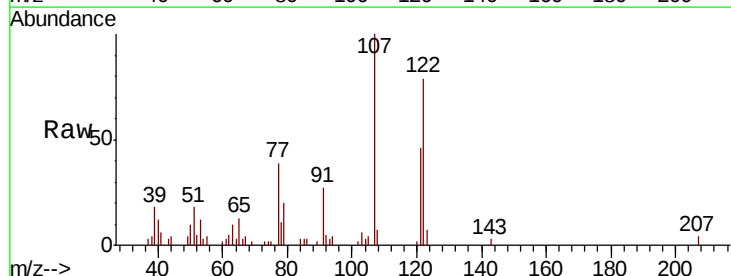
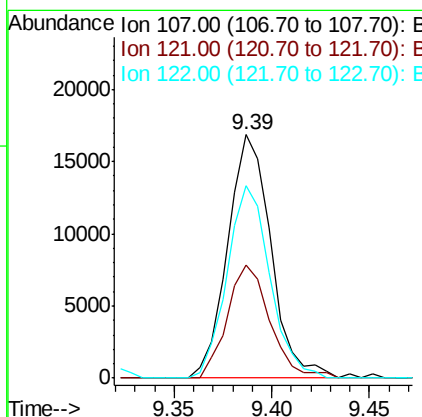
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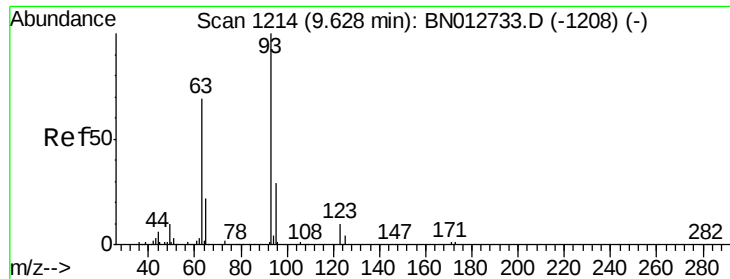
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#26
2,4-Dimethylphenol
Concen: 2.944 ng/ul
RT: 9.39 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
107	100		
121	46.5	36.8	55.2
122	78.8	57.9	86.9





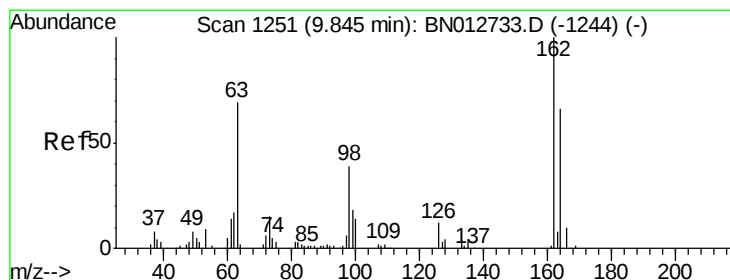
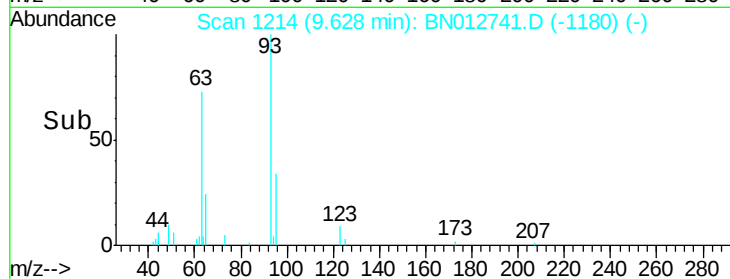
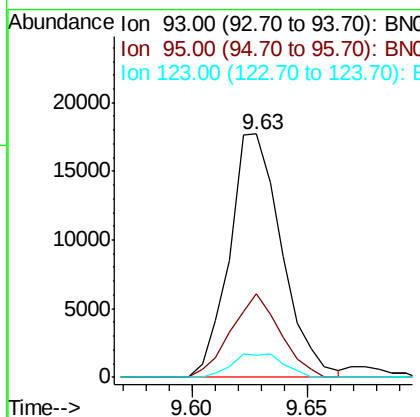
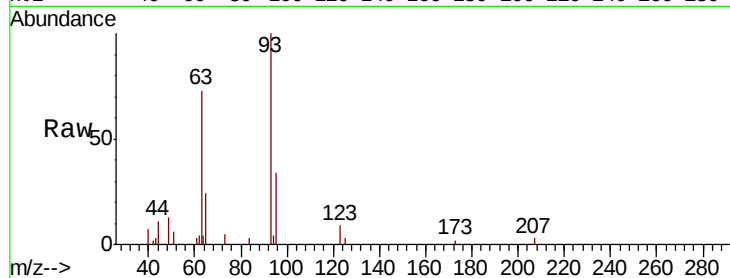
#27
 Bis(2-Chloroethoxy)methane
 Concen: 2.828 ng/ul
 RT: 9.63 min Scan# 1214
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
93	100		
95	34.3	23.5	35.3
123	9.3	7.8	11.6

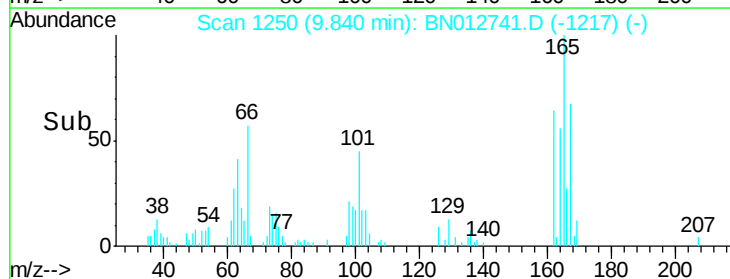
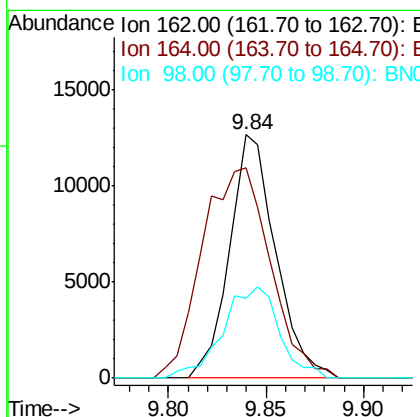
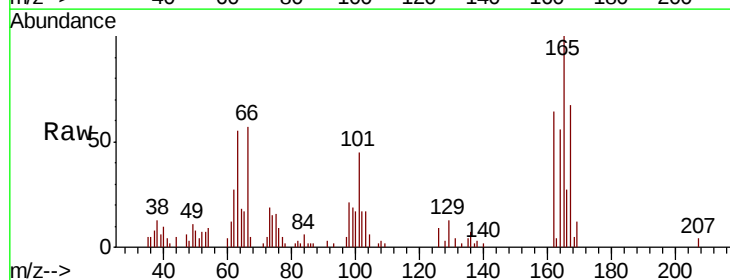
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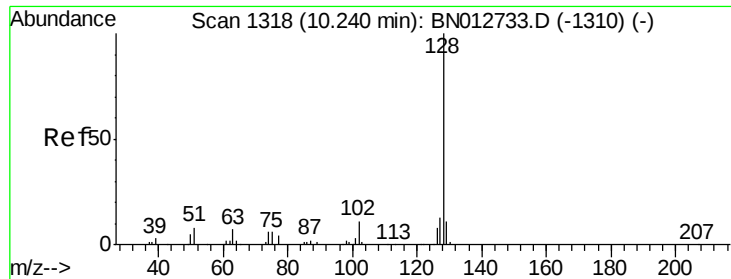
mohammad
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#29
 2,4-Dichlorophenol
 Concen: 2.972 ng/ul
 RT: 9.84 min Scan# 1250
 Delta R.T. -0.01 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
162	100		
164	86.4	53.2	79.8#
98	33.0	31.0	46.4





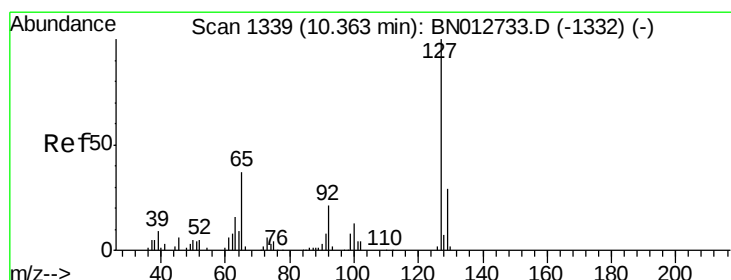
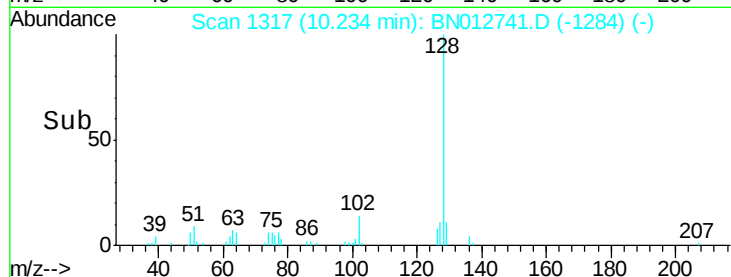
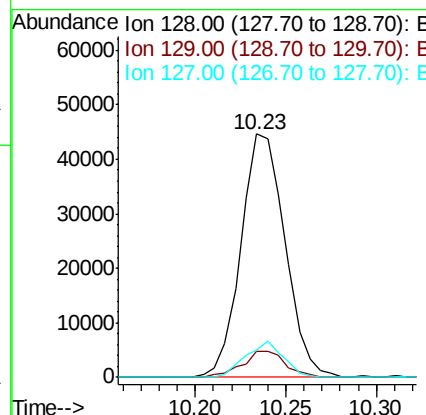
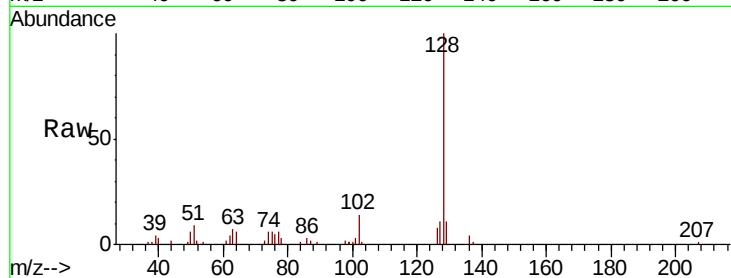
#30
Naphthalene
Concen: 3.144 ng/ul
RT: 10.23 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.6
127	11.1	10.5	15.7

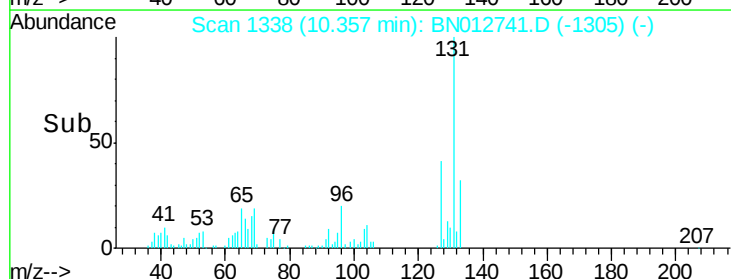
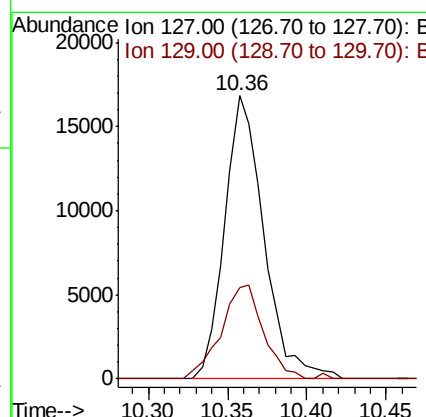
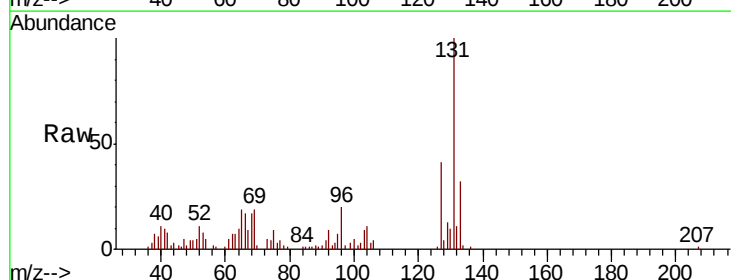
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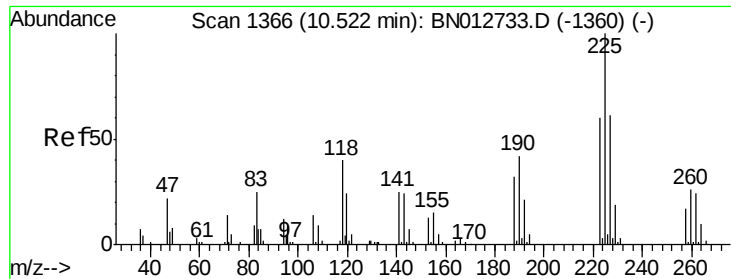
mohammad
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#32
4-Chloroaniline
Concen: 2.995 ng/ul
RT: 10.36 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.2	23.1	34.7





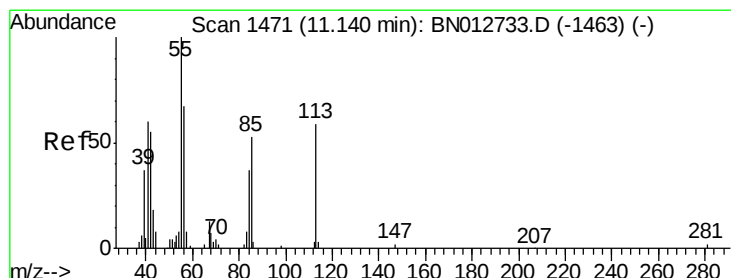
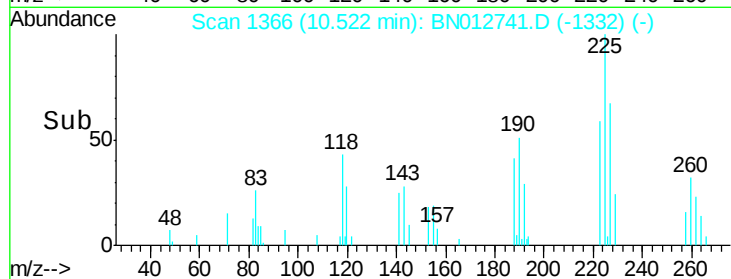
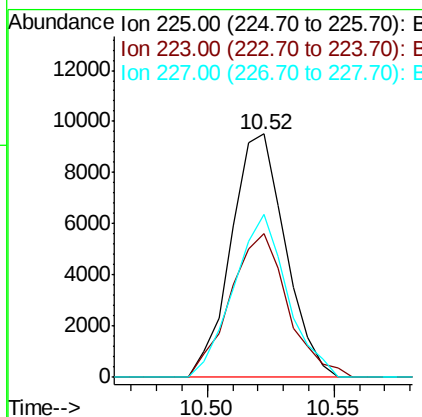
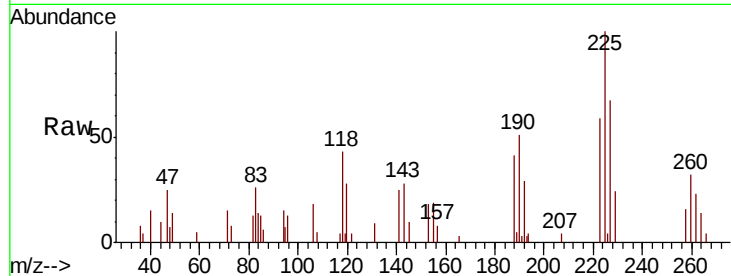
#33
Hexachlorobutadiene
Concen: 2.990 ng/ul
RT: 10.52 min Scan# 1366
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
225	100		
223	56.6	48.3	72.5
227	64.5	48.5	72.7

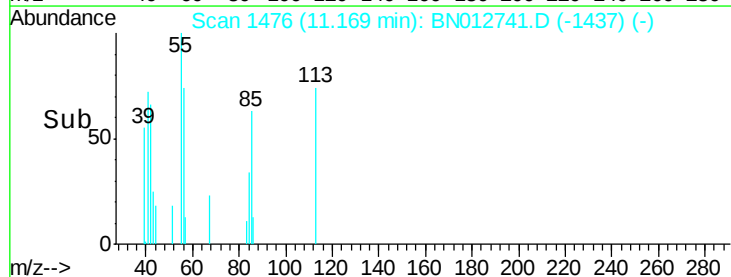
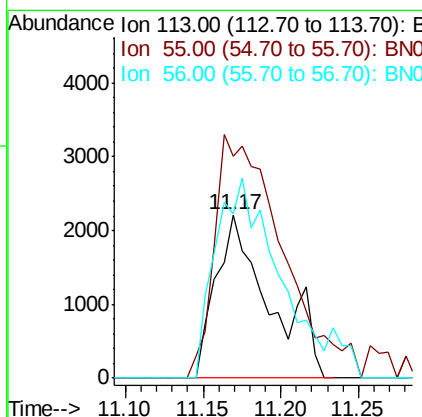
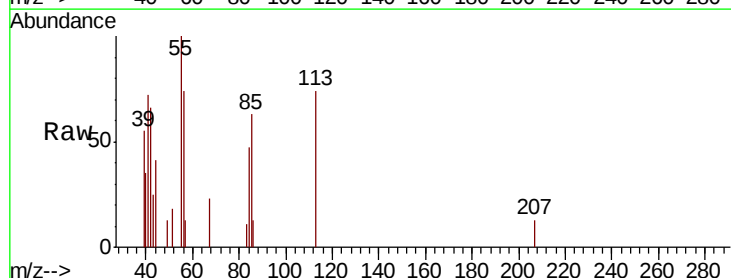
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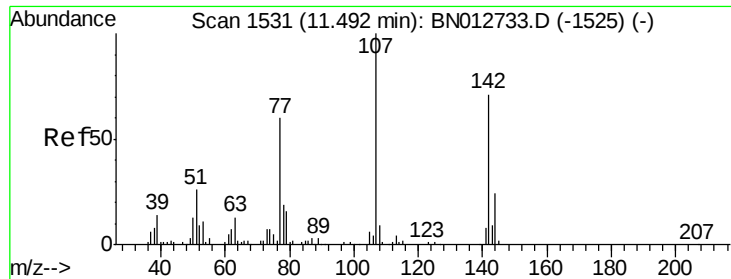
mohammad
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#34
Caprolactam
Concen: 2.345 ng/ul m
RT: 11.17 min Scan# 1476
Delta R.T. 0.03 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
113	100		
55	135.9	135.4	203.2
56	100.4	90.2	135.2





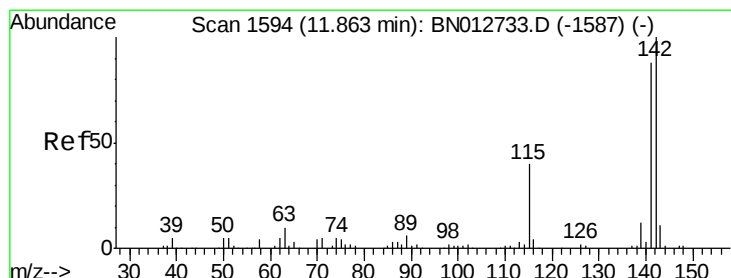
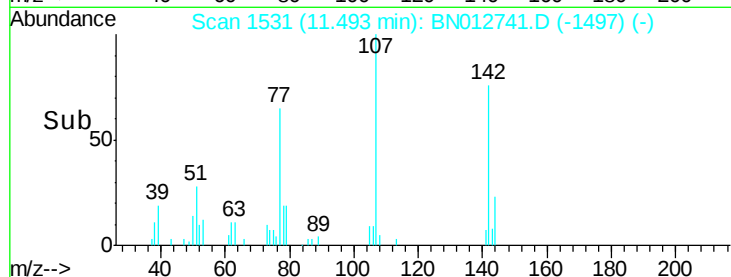
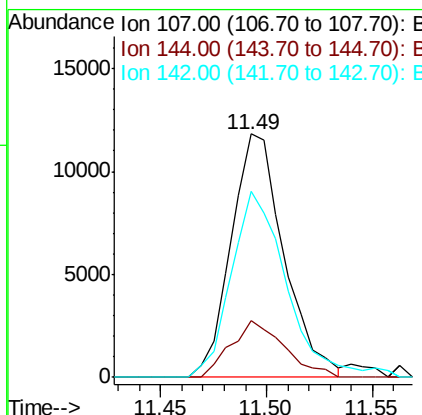
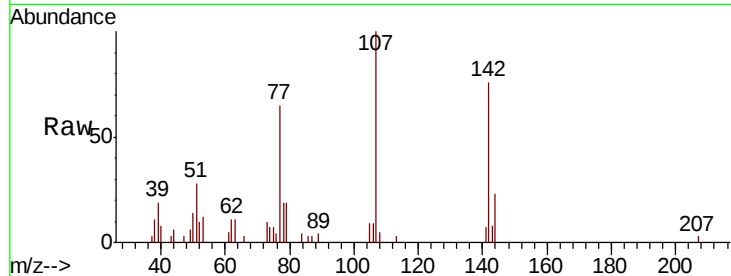
#35
4-Chloro-3-methylphenol
Concen: 2.559 ng/ul
RT: 11.49 min Scan# 1531
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
107	100		
144	23.4	19.4	29.0
142	76.4	56.9	85.3

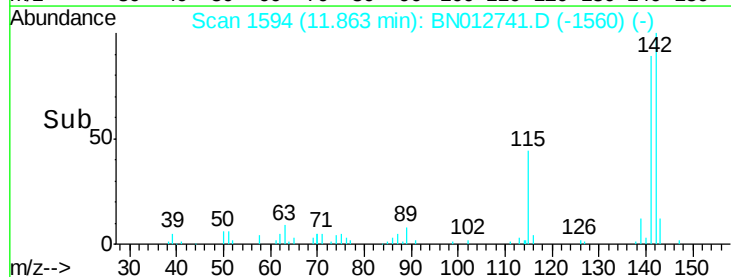
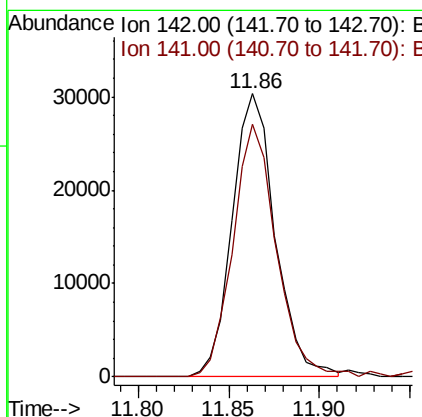
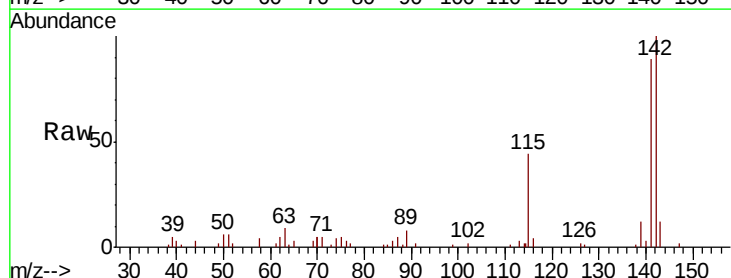
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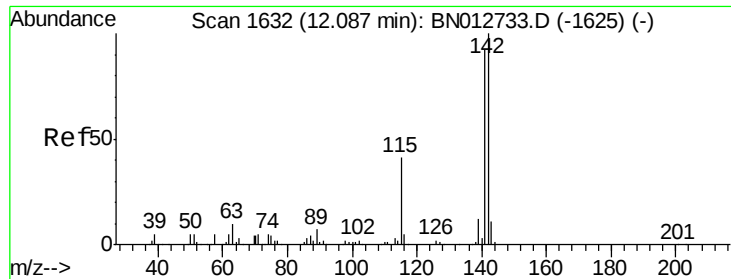
mohammad
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#36
2-Methylnaphthalene
Concen: 2.966 ng/ul
RT: 11.86 min Scan# 1594
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.4	105.6





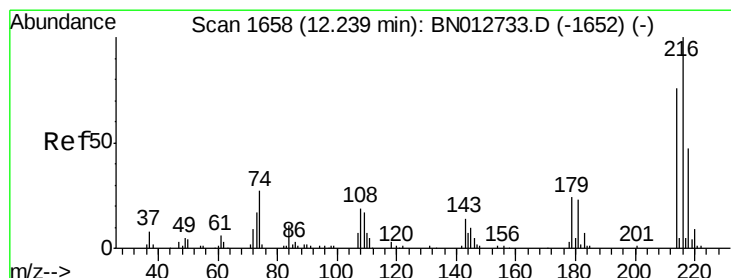
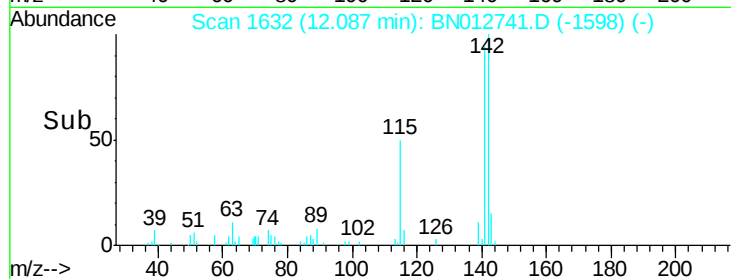
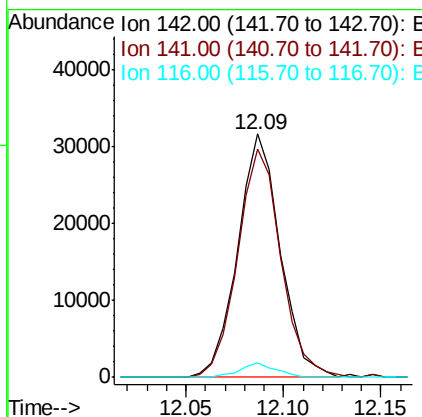
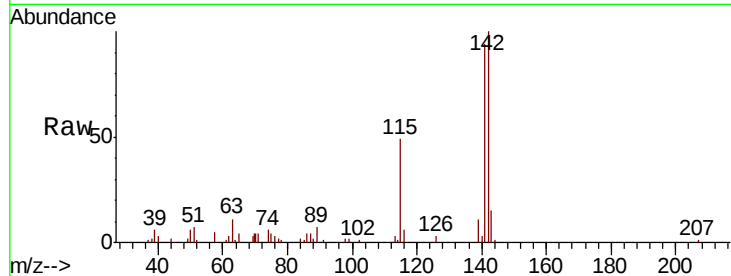
#37
 1-Methylnaphthalene
 Concen: 2.925 ng/ul
 RT: 12.09 min Scan# 1632
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	93.7	73.9	110.9
116	5.9	3.7	5.5#

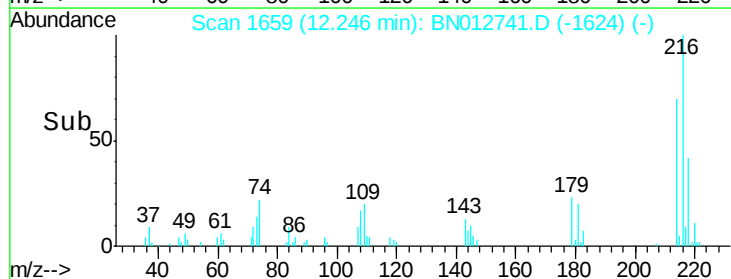
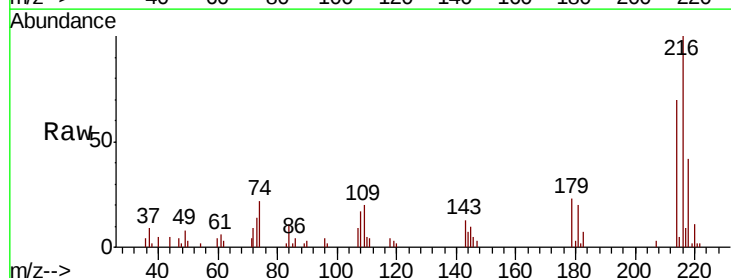
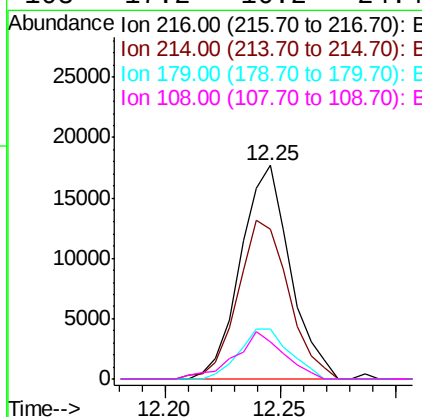
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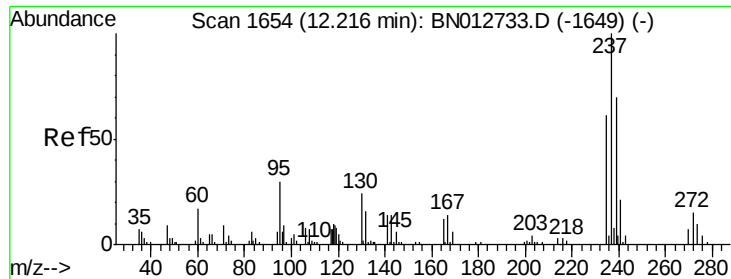
mohammad
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#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 3.008 ng/ul
 RT: 12.25 min Scan# 1659
 Delta R.T. 0.01 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
216	100		
214	70.4	60.9	91.3
179	23.1	19.0	28.4
108	17.2	16.2	24.4





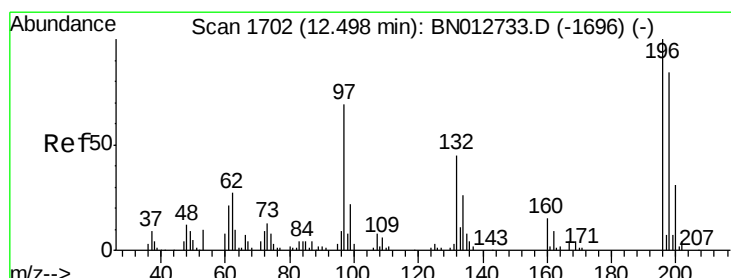
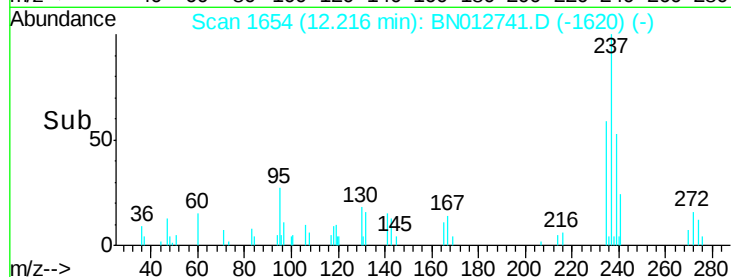
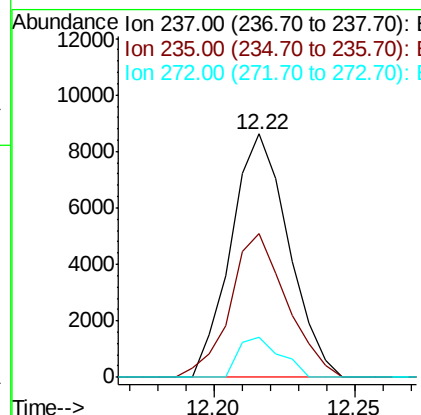
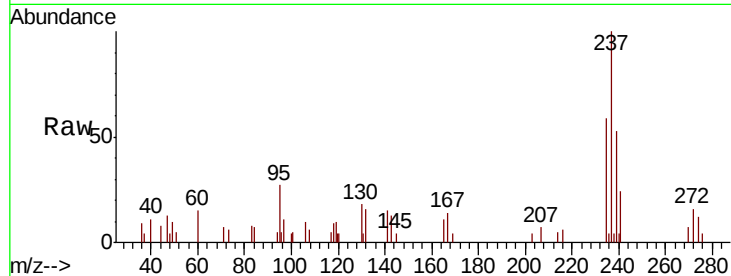
#40
Hexachlorocyclopentadiene
Concen: 2.275 ng/ul
RT: 12.22 min Scan# 1654
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
237	100		
235	59.2	48.7	73.1
272	16.3	11.7	17.5

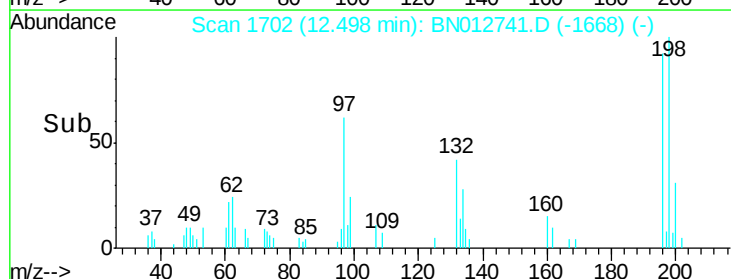
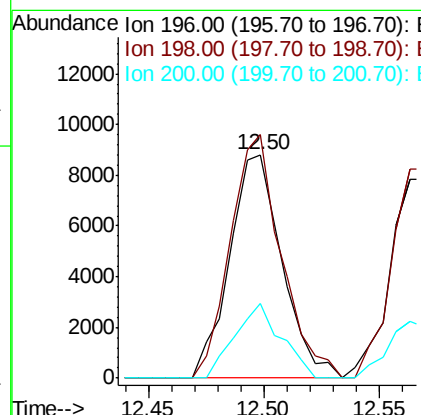
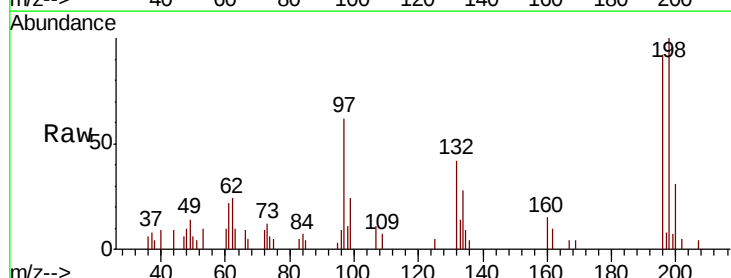
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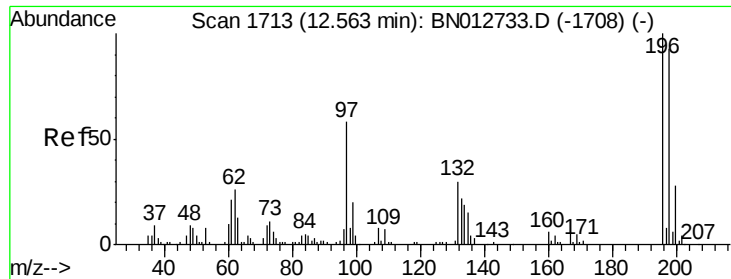
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#41
2,4,6-Trichlorophenol
Concen: 2.481 ng/ul
RT: 12.50 min Scan# 1702
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
196	100		
198	109.1	67.0	100.4#
200	33.3	25.0	37.4





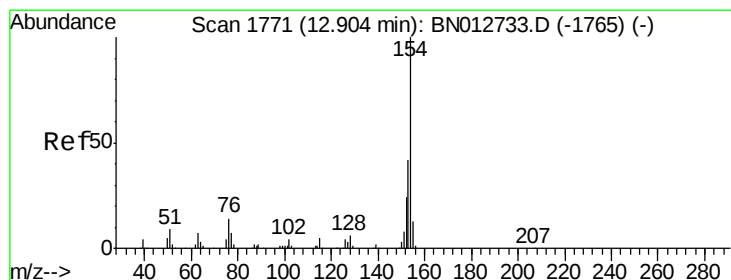
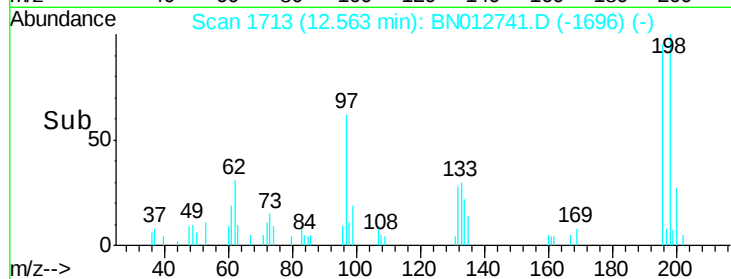
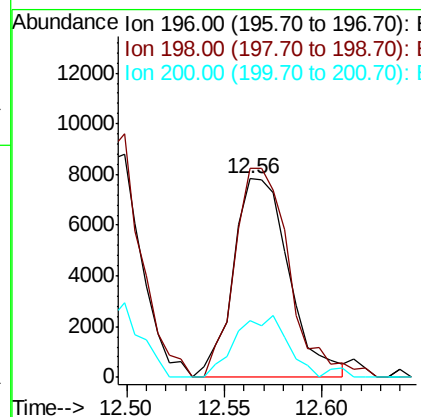
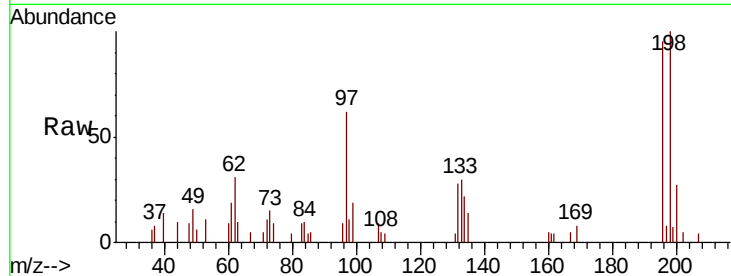
#42
 2,4,5-Trichlorophenol
 Concen: 2.533 ng/ul
 RT: 12.56 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
196	100		
198	105.5	74.9	112.3
200	28.8	22.8	34.2

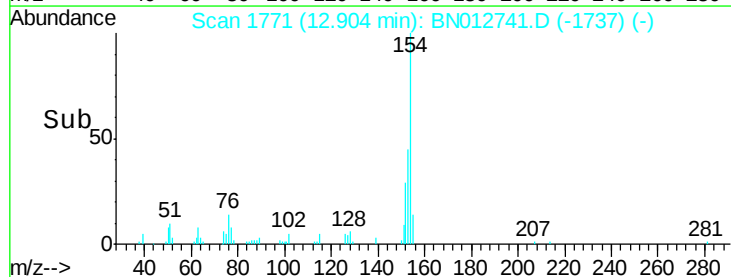
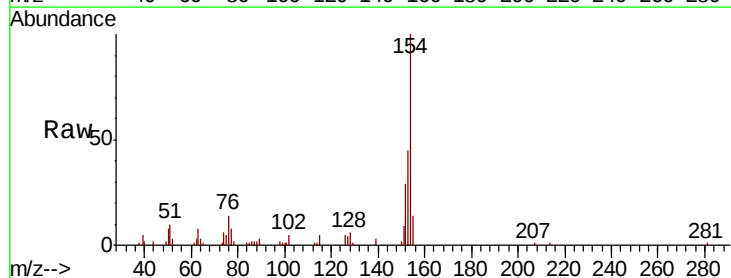
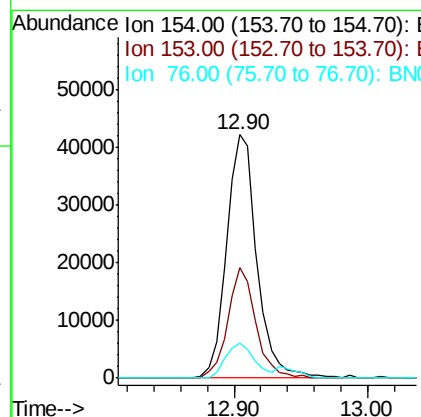
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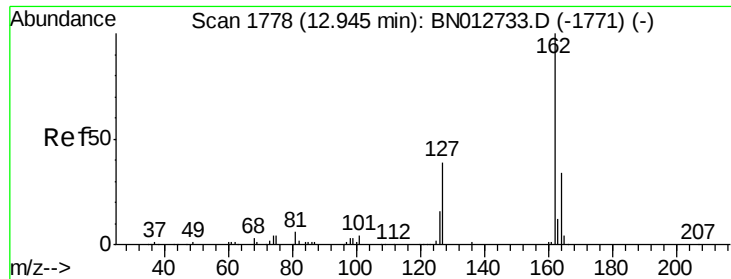
mohammad
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#43
 1,1'-Biphenyl
 Concen: 2.960 ng/ul
 RT: 12.90 min Scan# 1771
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
154	100		
153	45.4	33.8	50.8
76	14.5	11.0	16.6





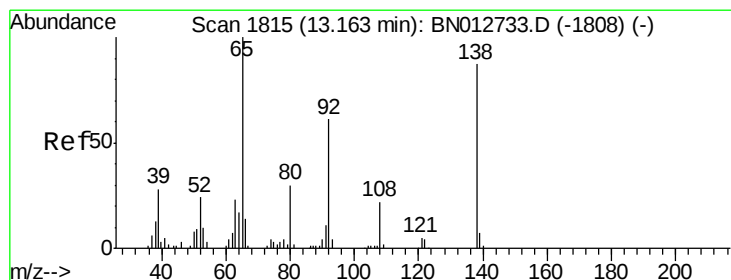
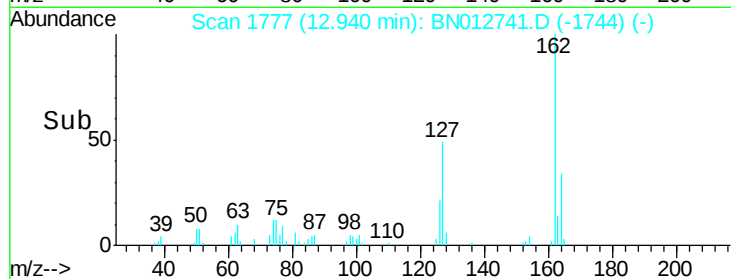
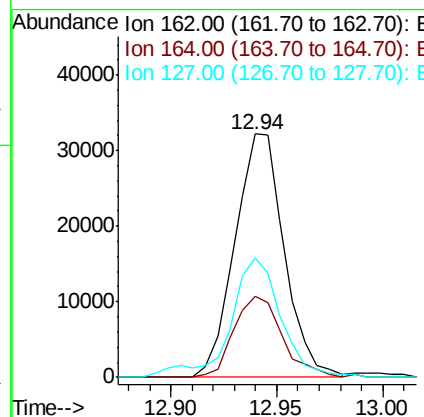
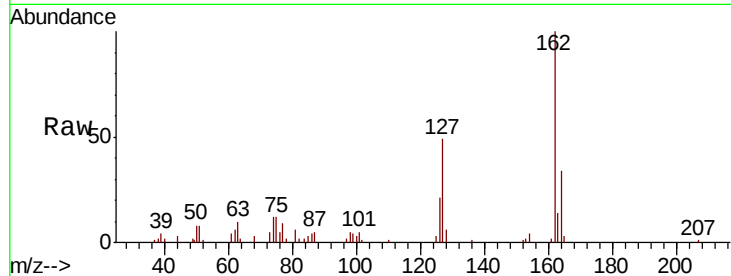
#44
2-Chloronaphthalene
Concen: 2.909 ng/ul
RT: 12.94 min Scan# 1777
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
162	100		
164	33.5	26.8	40.2
127	48.8	35.0	52.4

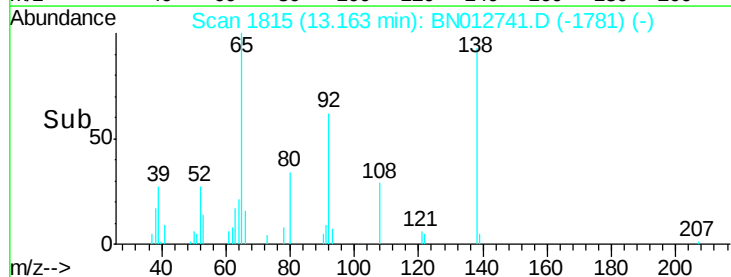
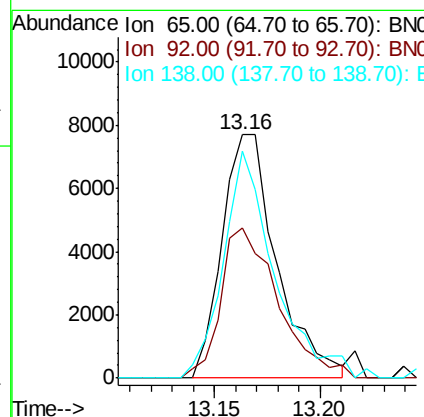
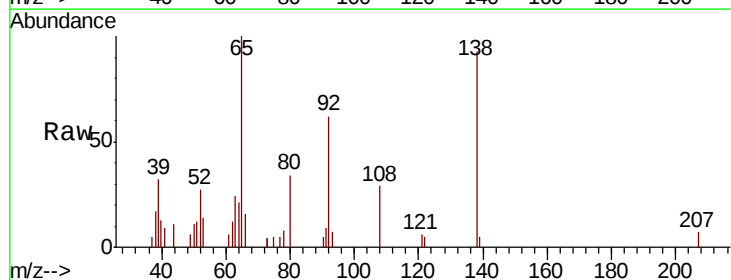
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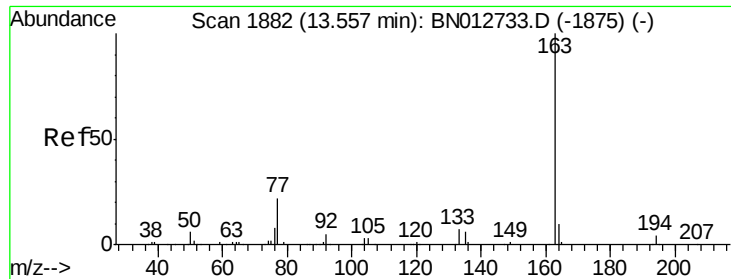
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#45
2-Nitroaniline
Concen: 2.352 ng/ul
RT: 13.16 min Scan# 1815
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
65	100		
92	61.8	48.7	73.1
138	93.4	69.3	103.9





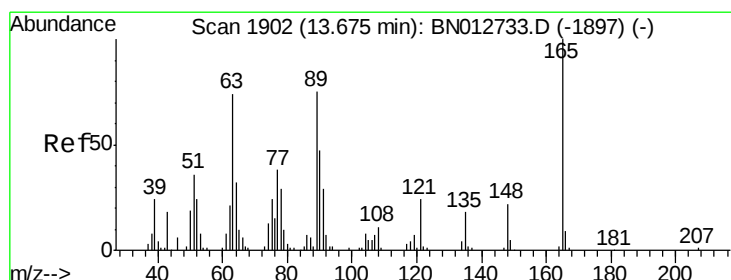
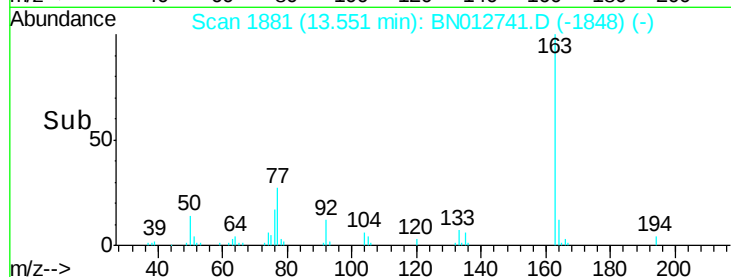
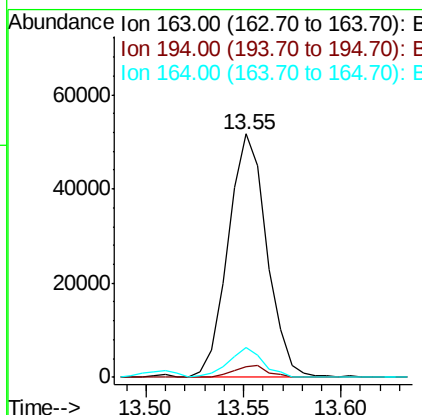
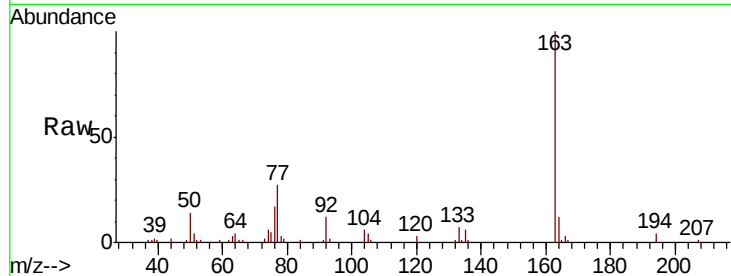
#47
Dimethylphthalate
Concen: 3.053 ng/ul
RT: 13.55 min Scan# 1881
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleID :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.1	4.7
164	12.2	7.8	11.6

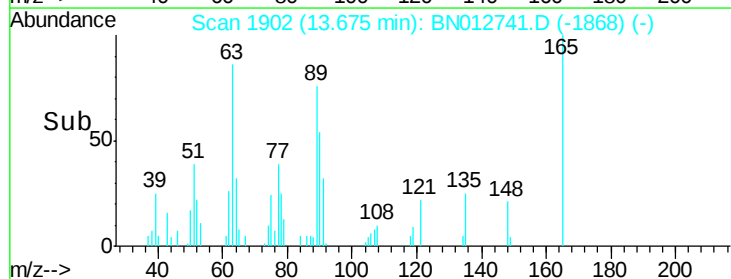
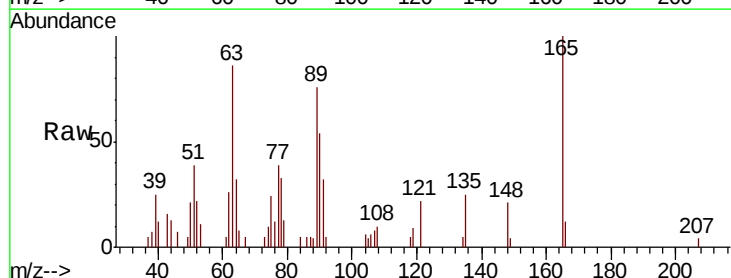
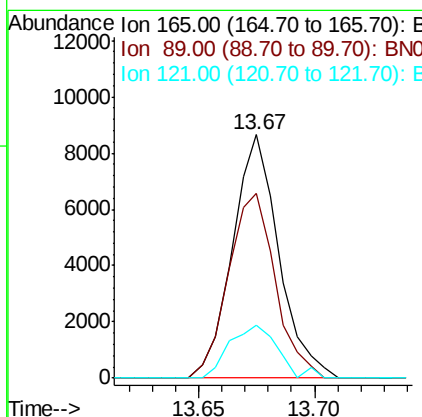
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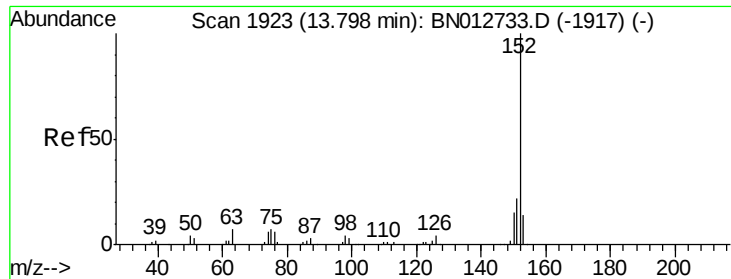
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#48
2,6-Dinitrotoluene
Concen: 2.627 ng/ul
RT: 13.67 min Scan# 1902
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
165	100		
89	75.7	60.0	90.0
121	21.7	19.1	28.7





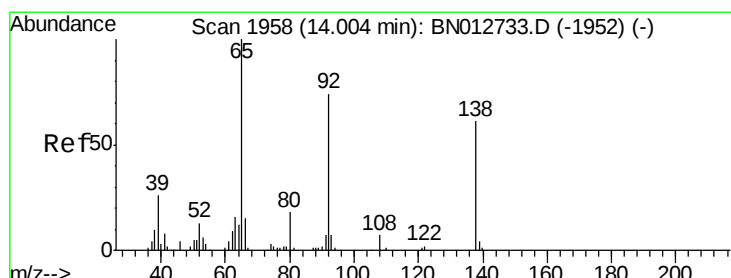
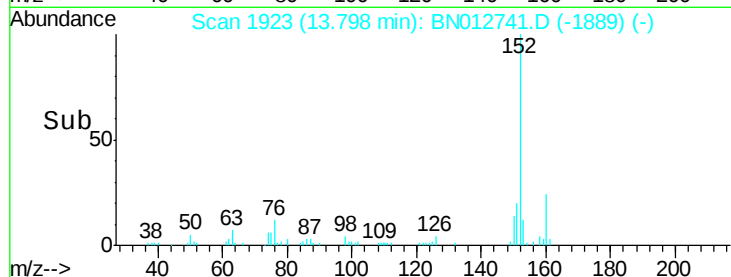
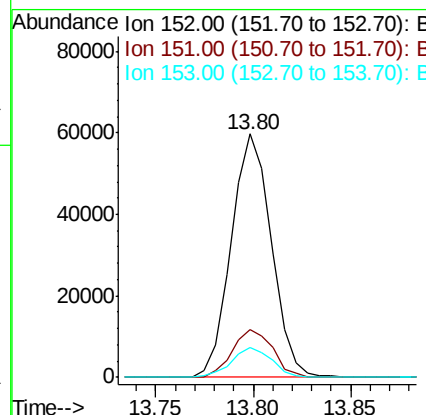
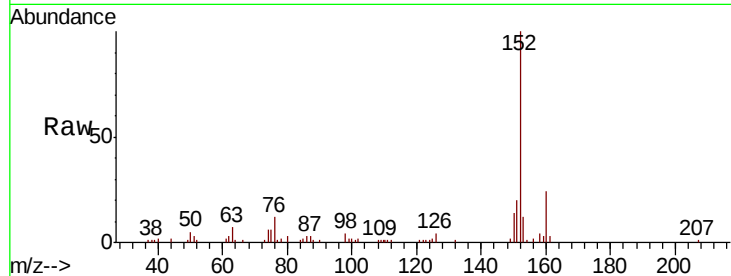
#50
Acenaphthylene
Concen: 3.118 ng/ul
RT: 13.80 min Scan# 1923
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.7	17.8	26.6
153	12.1	10.8	16.2

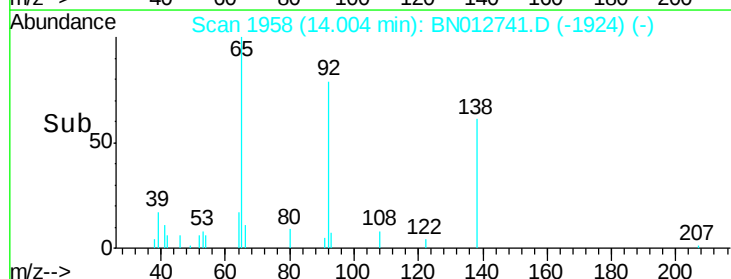
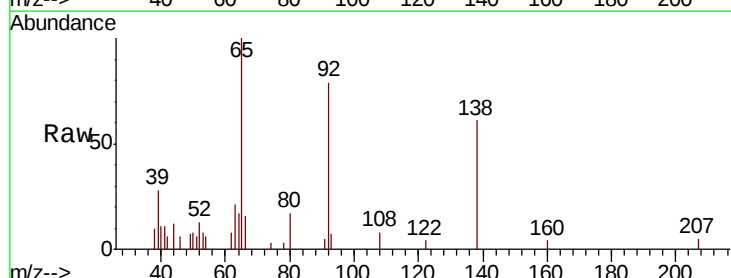
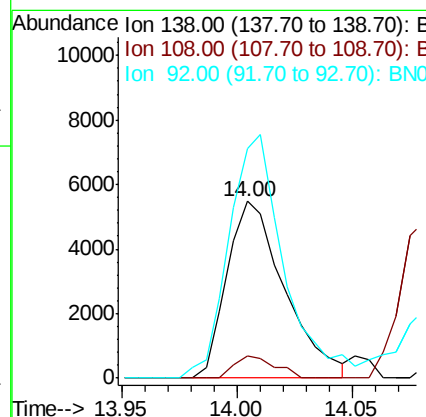
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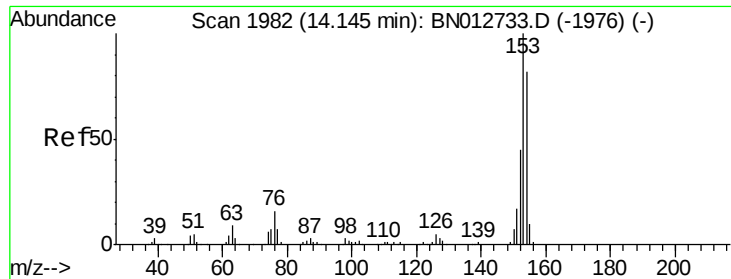
mohammad
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#51
3-Nitroaniline
Concen: 2.531 ng/ul
RT: 14.00 min Scan# 1958
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
138	100		
108	12.5	8.9	13.3
92	129.6	98.0	147.0





#52

Acenaphthene

Concen: 3.015 ng/ul

RT: 14.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

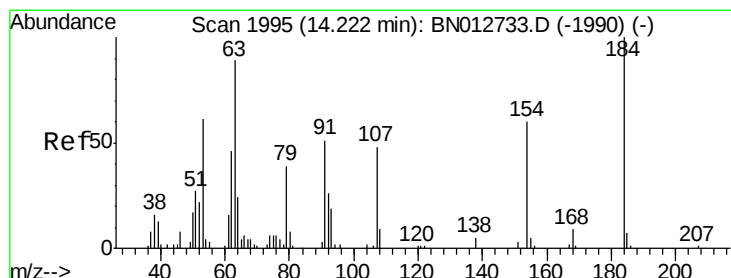
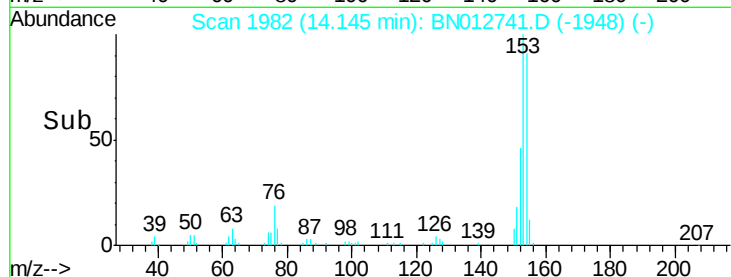
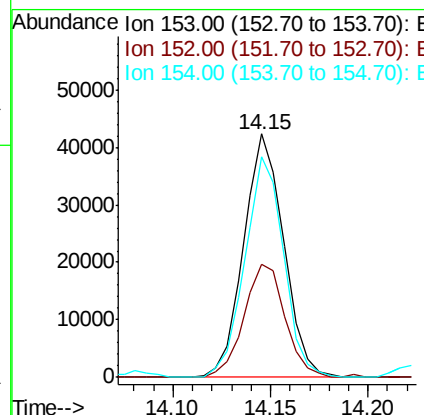
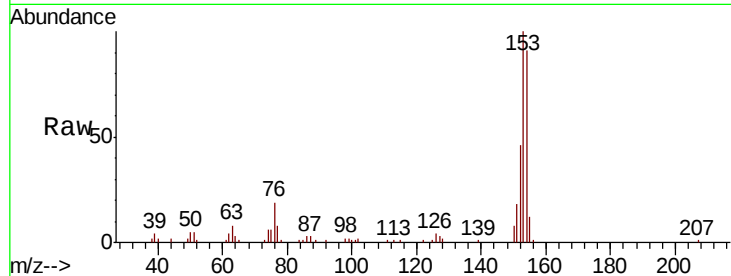
ClientSampleId :

MDL-WATER-02

Tot Ion:	153	Resp:	60234
Ion	Ratio	Lower	Upper
153	100		
152	46.4	36.2	54.4
154	90.8	65.4	98.0

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#53

2,4-Dinitrophenol

Concen: 1.407 ng/ul

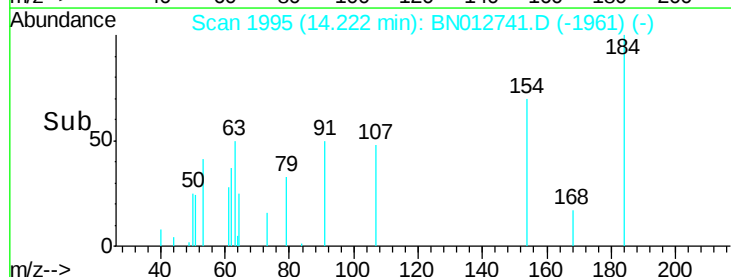
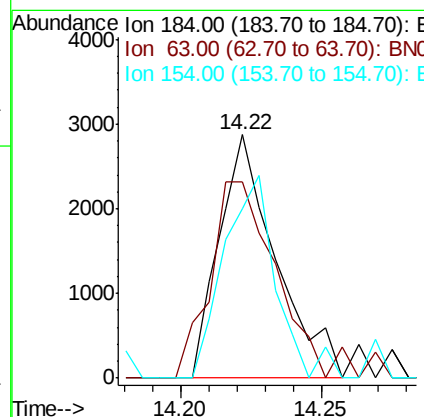
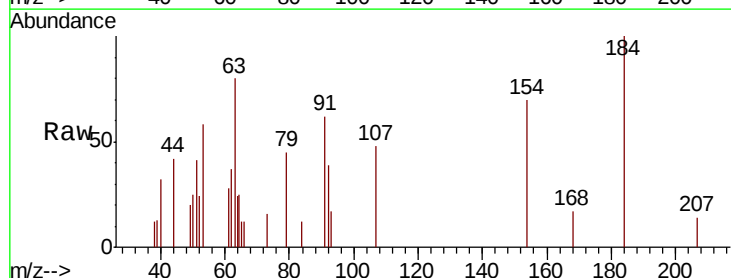
RT: 14.22 min Scan# 1995

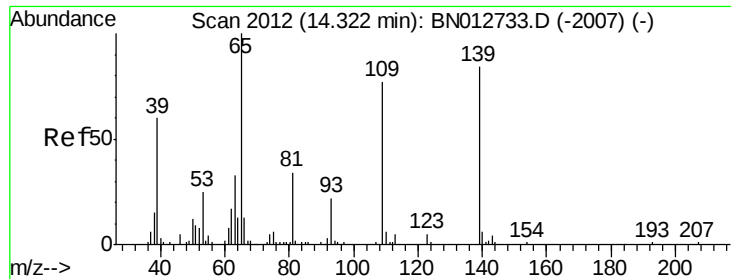
Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion:	184	Resp:	4007
Ion	Ratio	Lower	Upper
184	100		
63	80.4	72.7	109.1
154	69.6	50.6	76.0





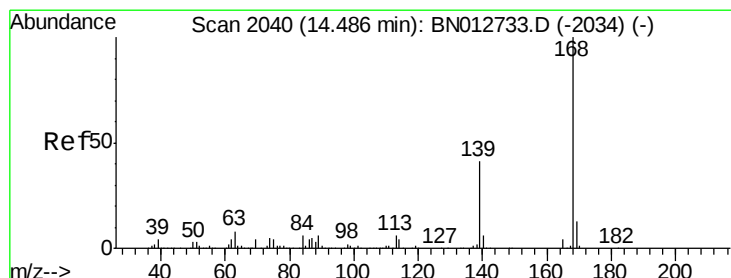
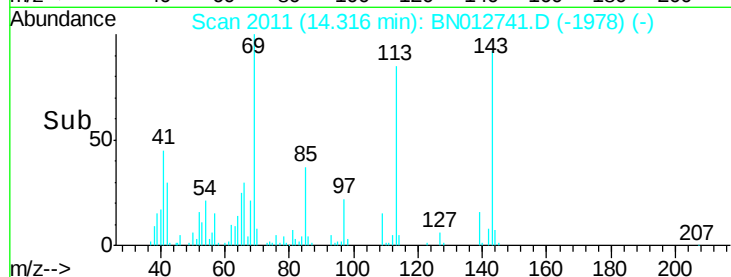
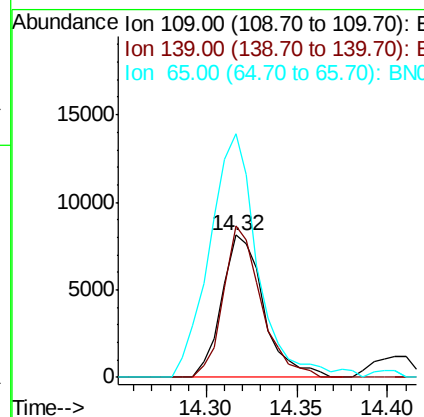
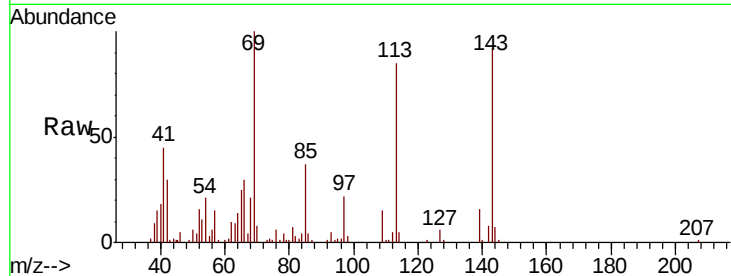
#55
4-Nitrophenol
Concen: 3.112 ng/ul
RT: 14.32 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
109	100		
139	106.3	87.8	131.8
65	171.4	106.6	160.0

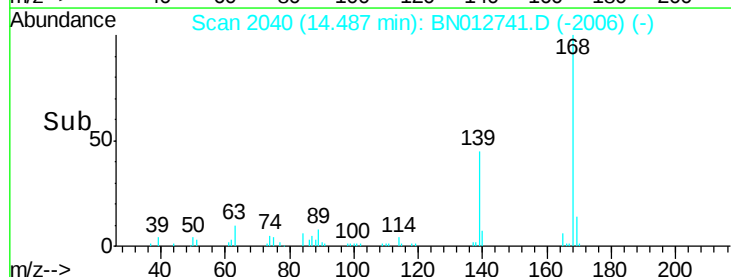
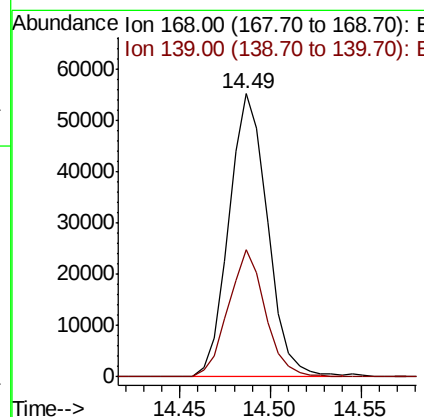
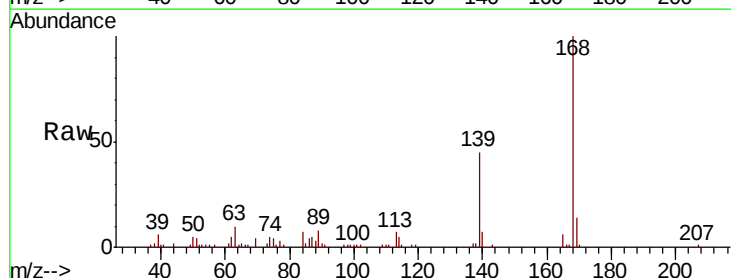
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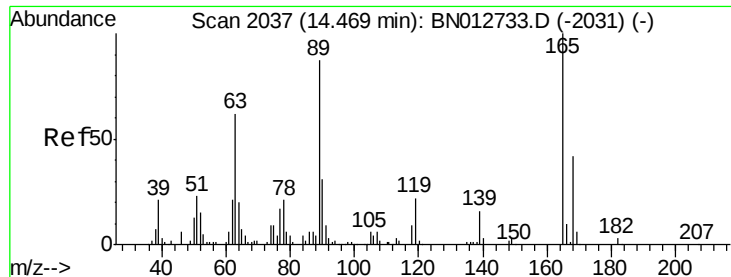
mohammad
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#56
Dibenzofuran
Concen: 2.953 ng/ul
RT: 14.49 min Scan# 2040
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
168	100		
139	44.8	32.5	48.7





#57

2,4-Dinitrotoluene

Concen: 2.529 ng/ul

RT: 14.47 min Scan# 2038

Delta R.T. 0.01 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

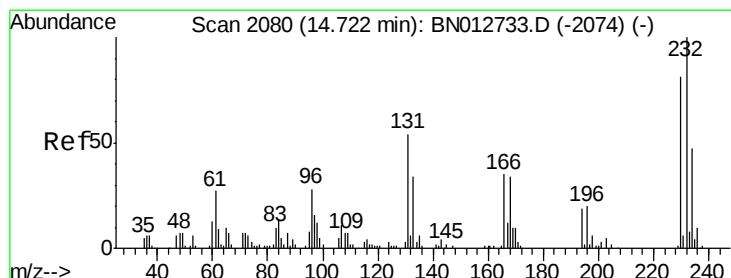
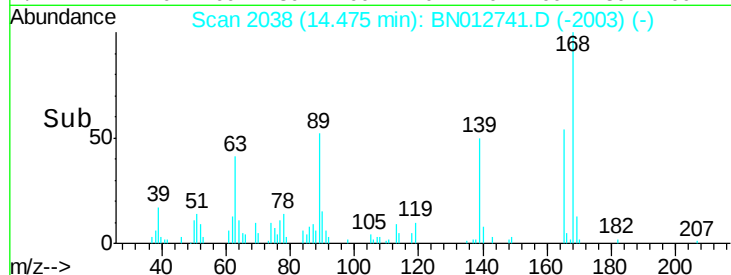
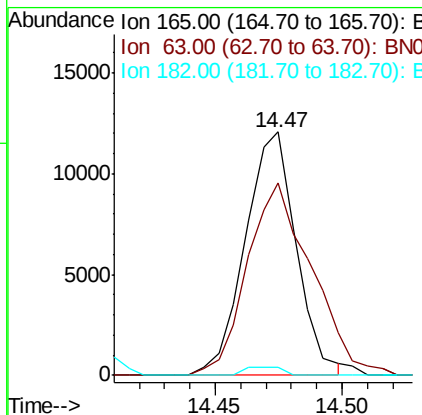
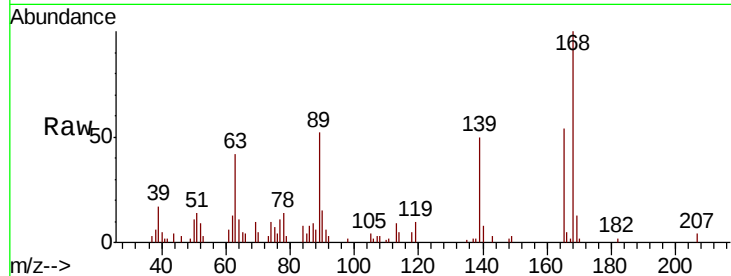
ClientSampleId :

MDL-WATER-02

Tot Ion	Ratio	Resp	Lower	Upper
165	100	16993		
63	78.8	49.8	74.8#	
182	3.2	2.3	3.5	

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#58

2,3,4,6-Tetrachlorophenol

Concen: 2.613 ng/ul

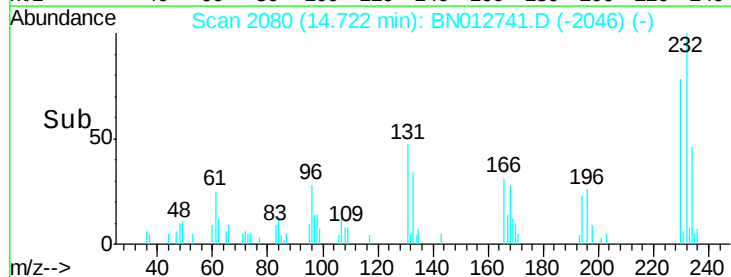
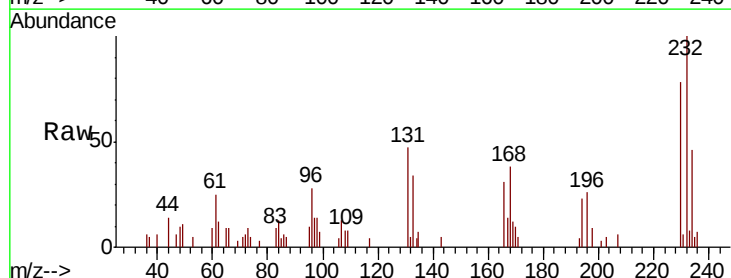
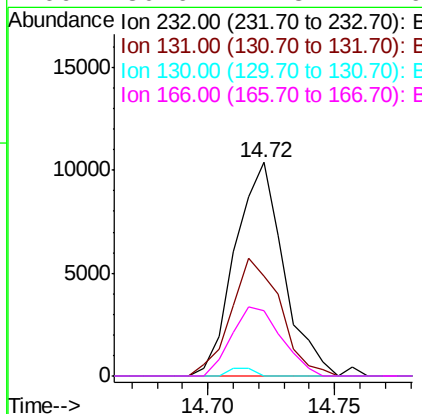
RT: 14.72 min Scan# 2080

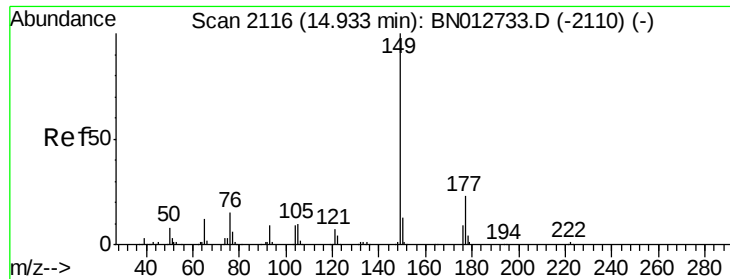
Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Resp	Lower	Upper
232	100	13838		
131	46.7	43.1	64.7	
130	0.0	2.7	4.1#	
166	30.6	27.8	41.6	





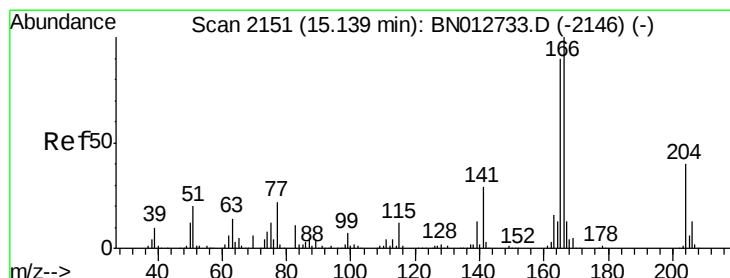
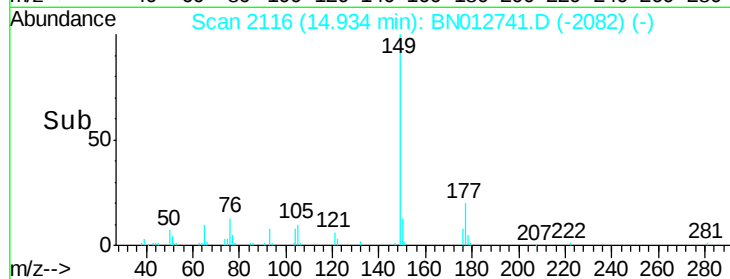
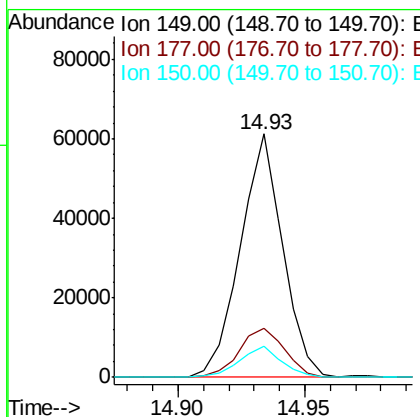
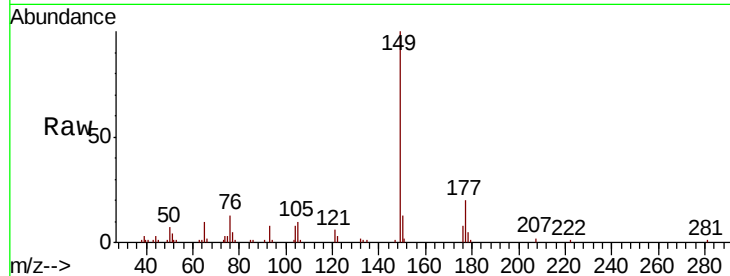
#59
Diethylphthalate
Concen: 2.953 ng/ul
RT: 14.93 min Scan# 2116
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
149	100		
177	20.3	18.4	27.6
150	12.9	10.3	15.5

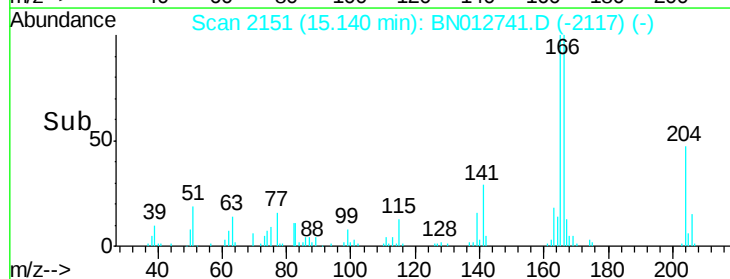
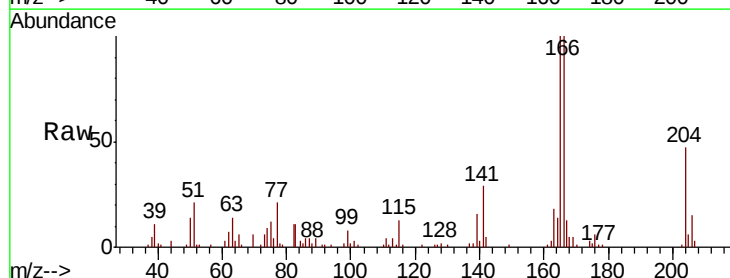
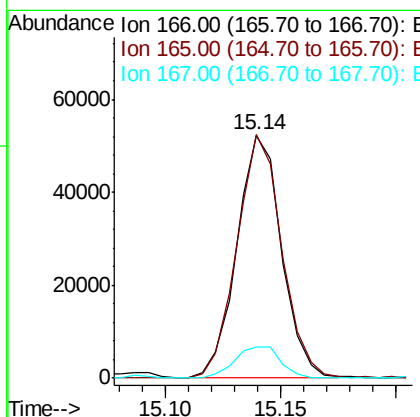
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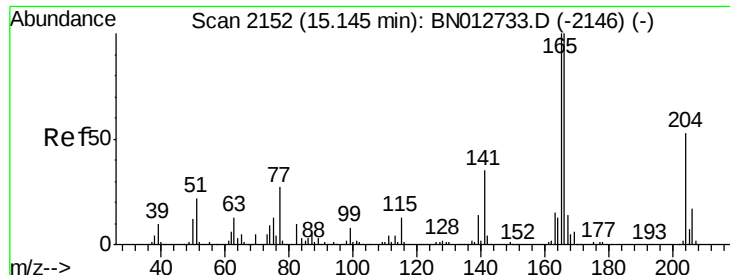
mohammad
11/27/2020 11:46:36 AM



#61
Fluorene
Concen: 3.021 ng/ul
RT: 15.14 min Scan# 2151
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.3	71.8	107.8
167	12.7	10.2	15.2





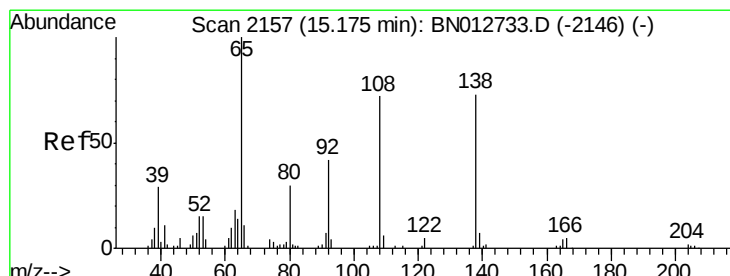
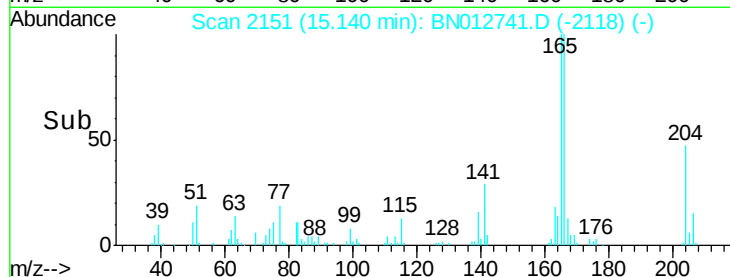
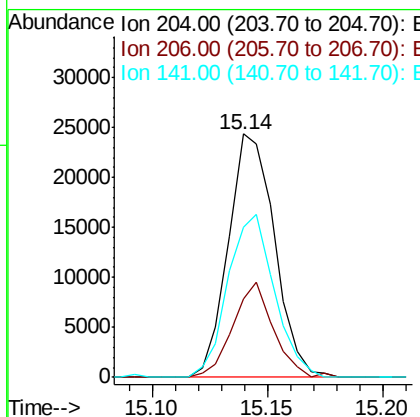
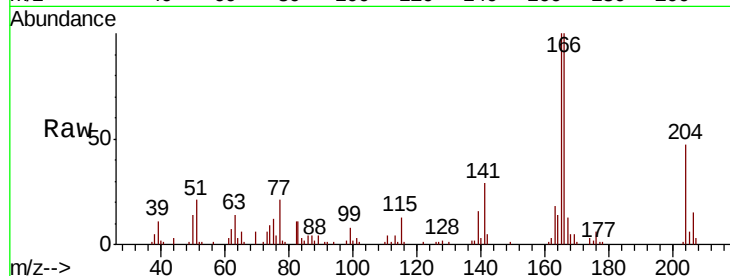
#62
 4-Chlorophenyl-phenylether
 Concen: 3.062 ng/ul
 RT: 15.14 min Scan# 2151
 Delta R.T. -0.01 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.3	37.9
141	61.8	53.0	79.4

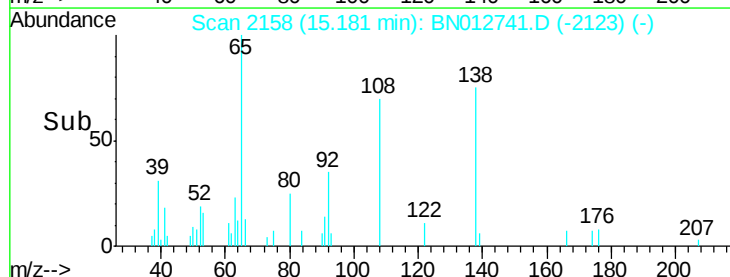
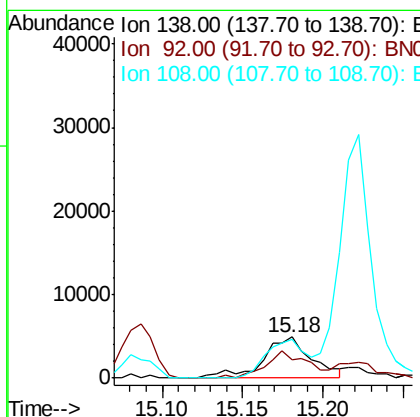
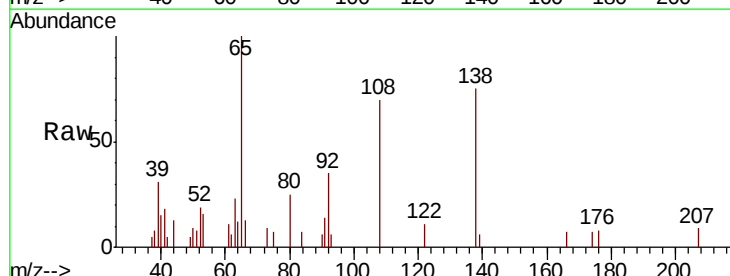
Manual Integrations
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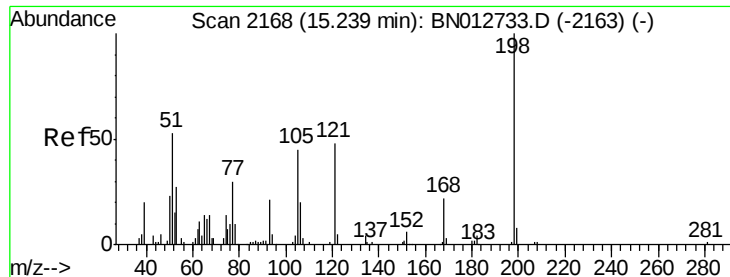
mohammad
 11/27/2020 11:46:36 AM



#63
 4-Nitroaniline
 Concen: 2.705 ng/ul m
 RT: 15.18 min Scan# 2158
 Delta R.T. 0.01 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
138	100		
92	46.4	47.0	70.4#
108	94.5	78.2	117.4





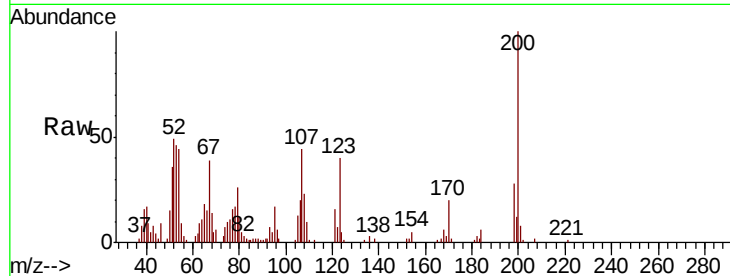
#66
 4,6-Dinitro-2-methylphenol
 Concen: 3.113 ng/ul
 RT: 15.23 min Scan# 2167
 Delta R.T. -0.01 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
198	100		
182	11.4	4.2	6.2#
77	57.4	26.6	39.8#

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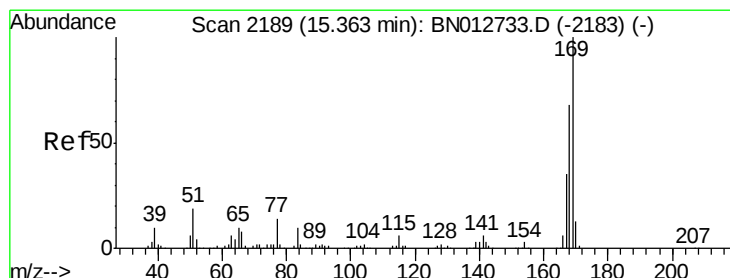
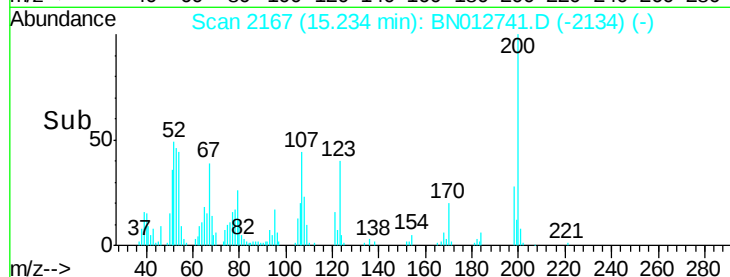
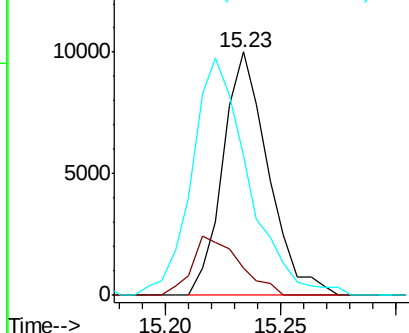


Abundance

Ion 198.00 (197.70 to 198.70): E

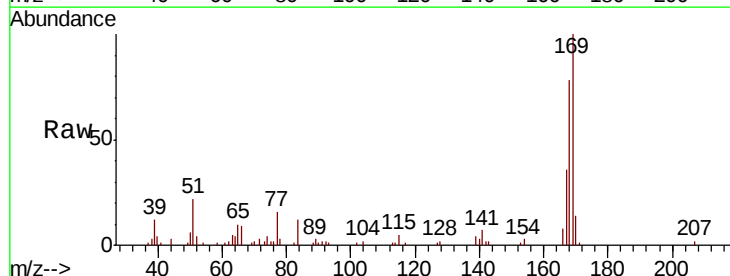
Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BNC



#67
 N-Nitrosodiphenylamine
 Concen: 2.928 ng/ul
 RT: 15.36 min Scan# 2189
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
169	100		
168	77.9	54.2	81.2
167	36.3	28.0	42.0

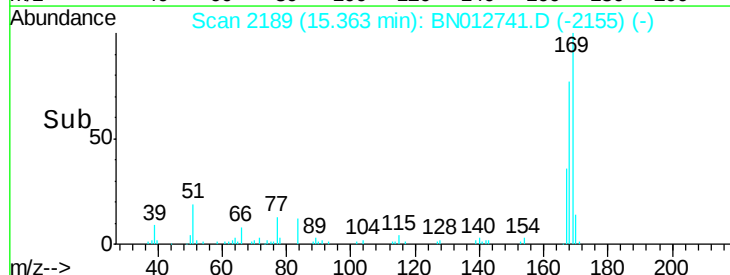
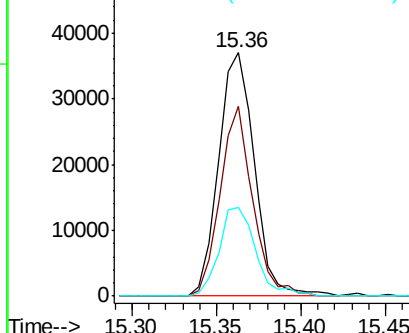


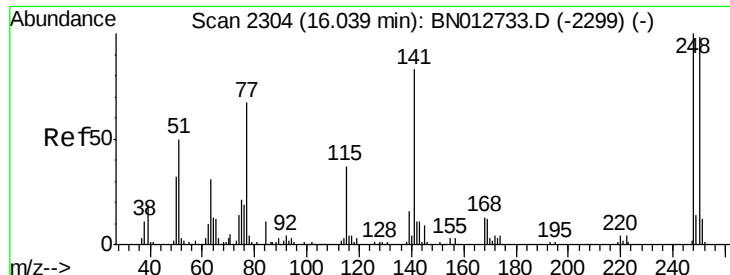
Abundance

Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





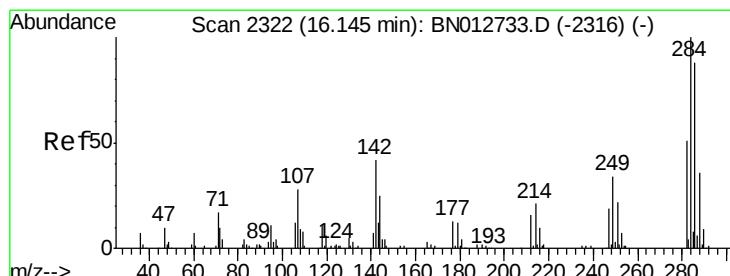
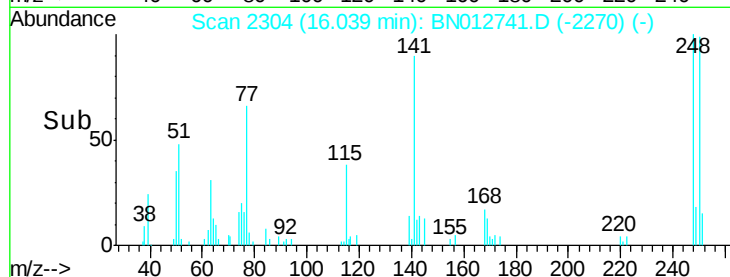
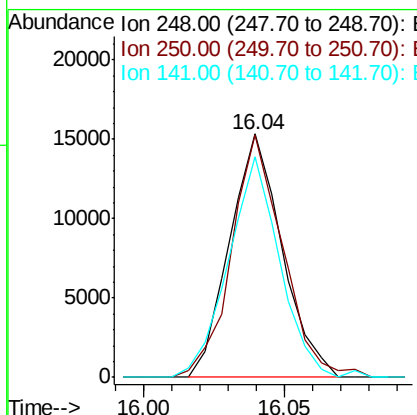
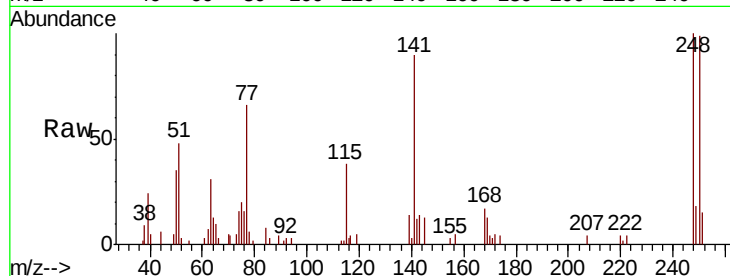
#68
 4-Bromophenyl-phenylether
 Concen: 2.937 ng/ul
 RT: 16.04 min Scan# 2304
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
248	100		
250	99.5	78.6	118.0
141	90.4	66.5	99.7

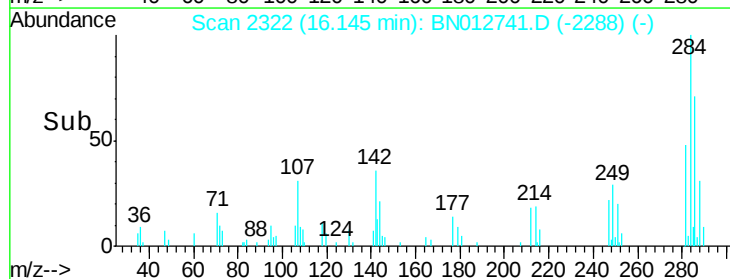
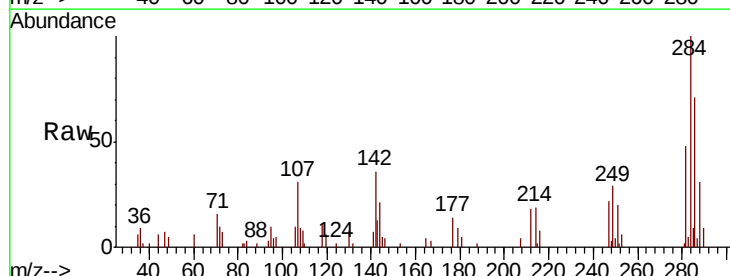
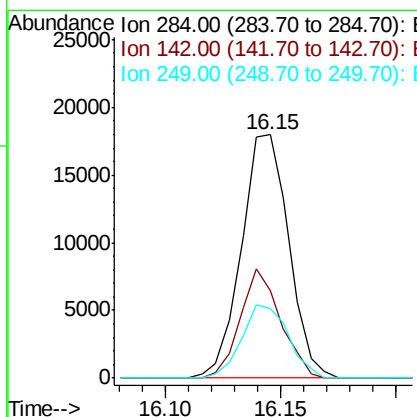
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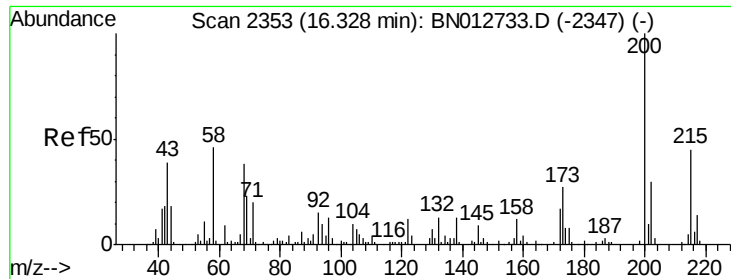
mohammad
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#69
 Hexachlorobenzene
 Concen: 3.249 ng/ul
 RT: 16.15 min Scan# 2322
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.8	33.7	50.5
249	28.7	26.8	40.2





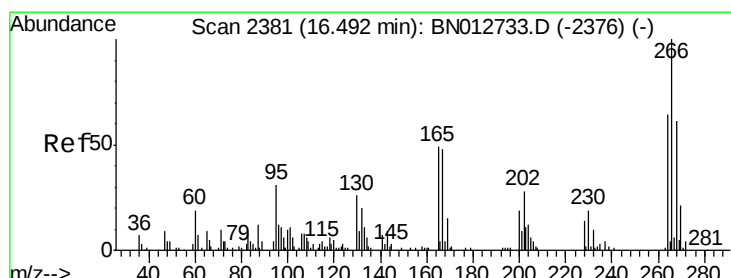
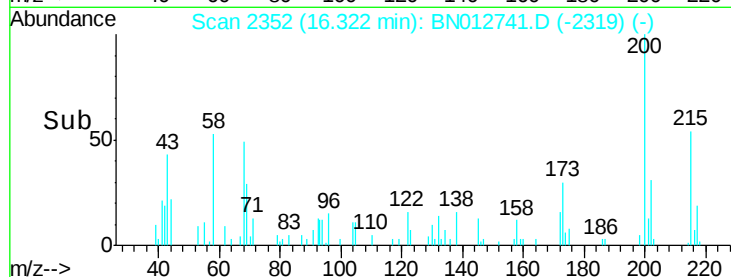
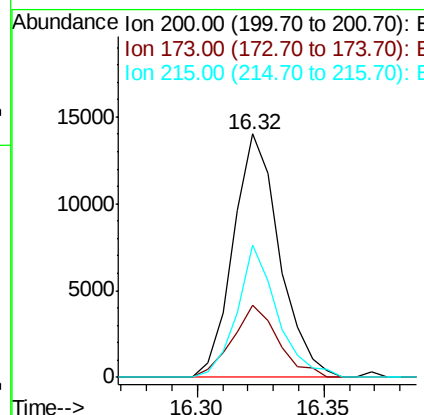
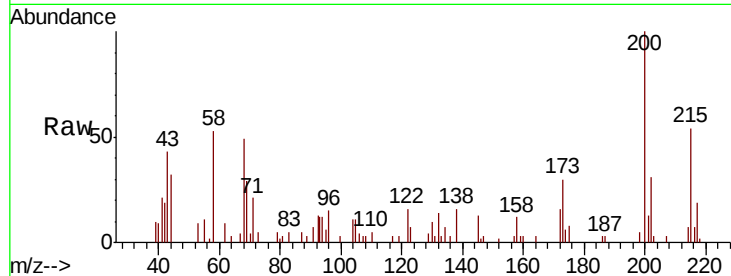
#70
Atrazine
Concen: 2.447 ng/ul
RT: 16.32 min Scan# 2352
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampled :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
200	100		
173	29.8	21.8	32.8
215	54.4	35.8	53.8

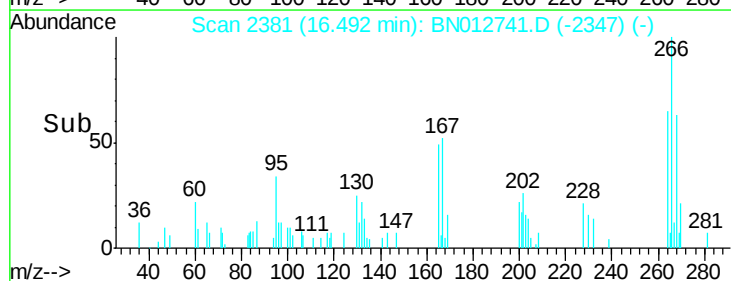
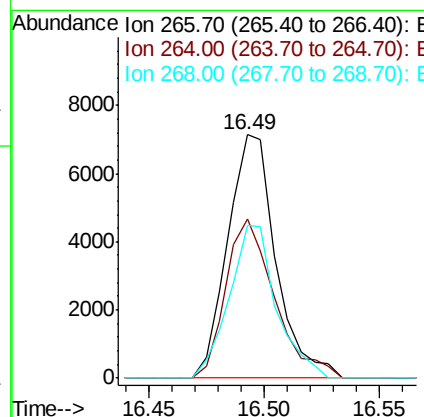
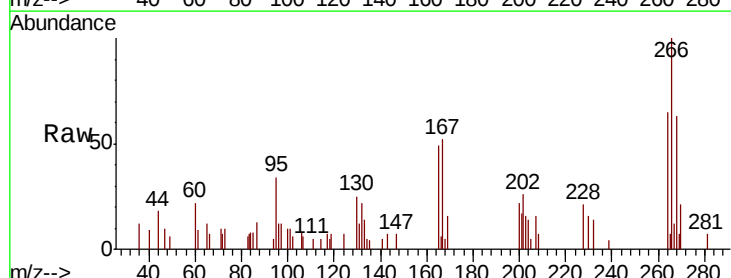
Manual Integrations
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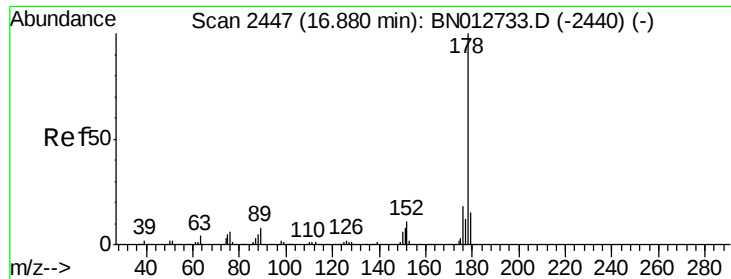
mohammad
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#71
Pentachlorophenol
Concen: 2.136 ng/ul
RT: 16.49 min Scan# 2381
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.2	51.4	77.2
268	62.7	48.7	73.1





#72

Phenanthrene

Concen: 3.000 ng/ul

RT: 16.88 min Scan# 2447

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

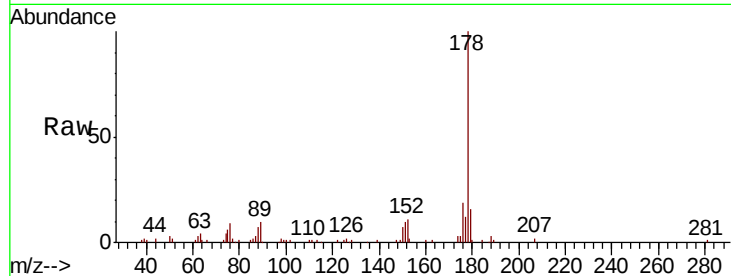
ClientSampleId :

MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.0	18.0
176	19.2	14.4	21.6

Manual Integrations
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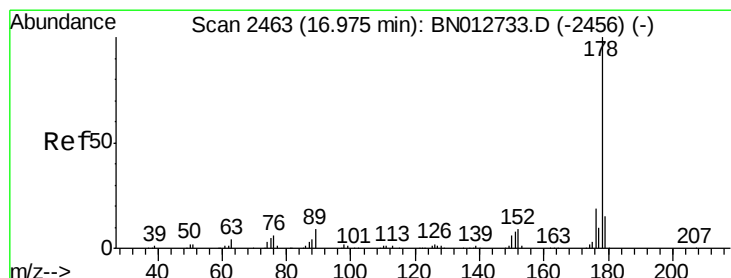
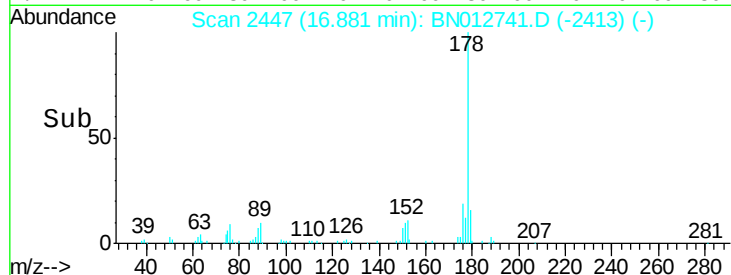
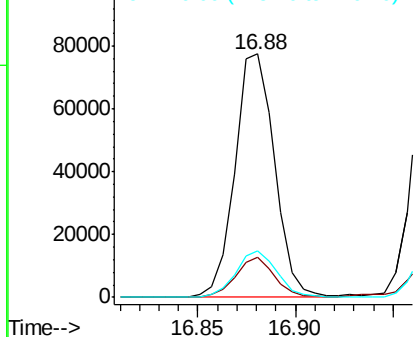


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#74

Anthracene

Concen: 3.191 ng/ul

RT: 16.97 min Scan# 2462

Delta R.T. -0.01 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

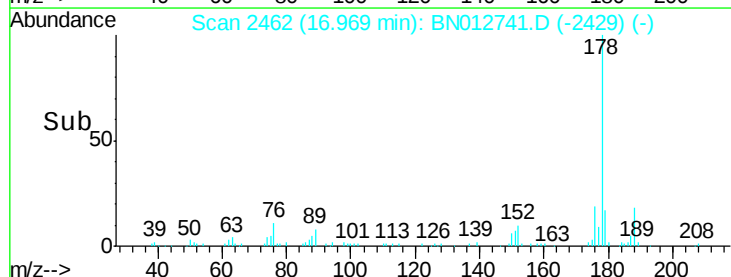
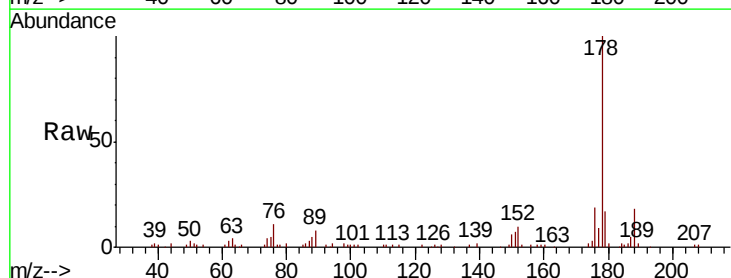
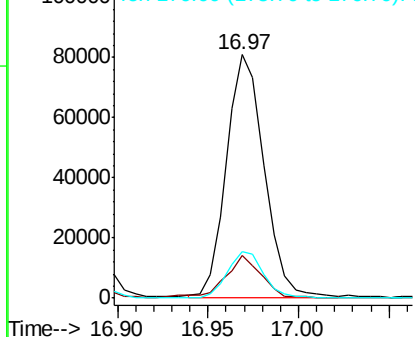
Tgt Ion	Ratio	Lower	Upper
178	100		
179	17.4	11.8	17.8
176	19.2	15.4	23.0

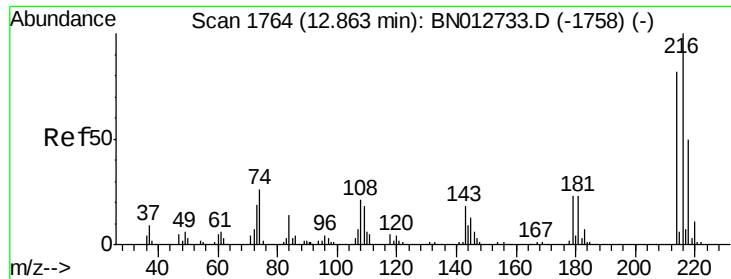
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

1,2,3,4-Tetrachlorobenzene

Concen: 3.058 ng/uL

RT: 12.86 min Scan# 1764

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

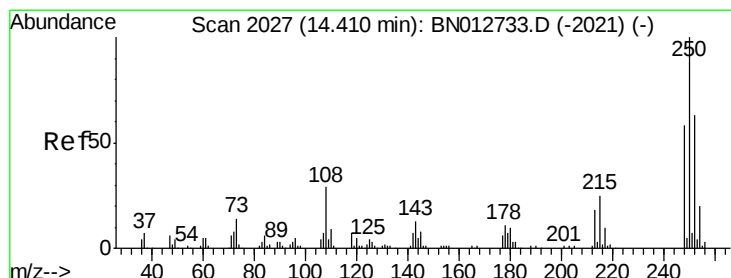
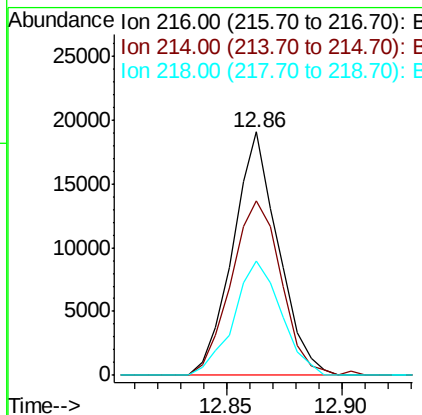
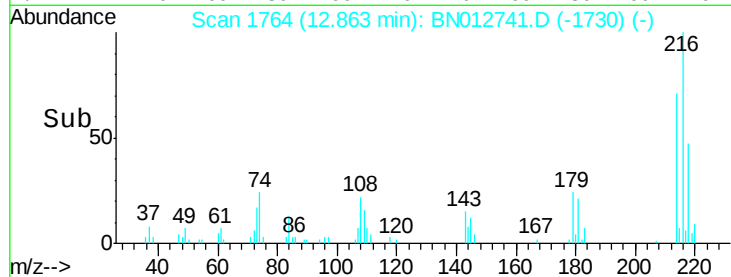
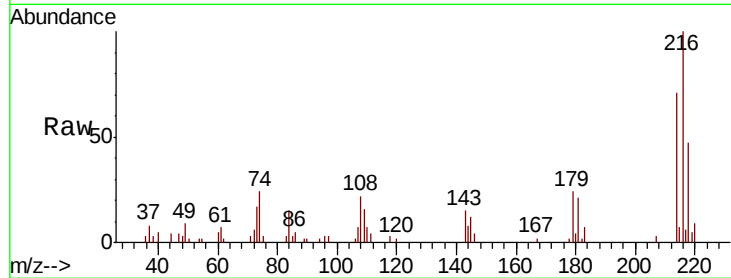
ClientSampleID :

MDL-WATER-02

Tot Ion:	216	Resp:	26193
Ion Ratio	Lower	Upper	
216	100		
214	71.4	65.6	98.4
218	47.1	39.8	59.8

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#76

Pentachlorobenzene

Concen: 3.029 ng/uL

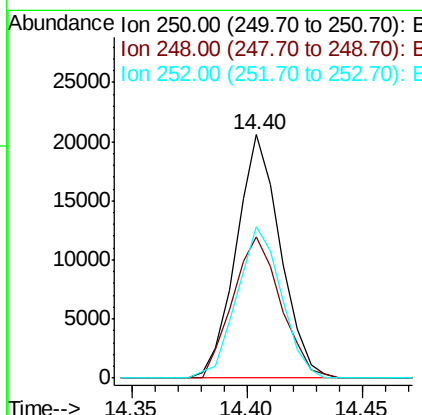
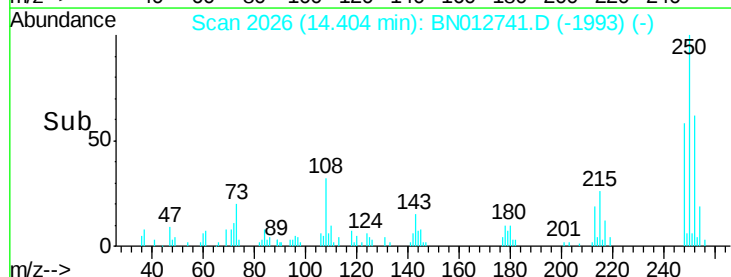
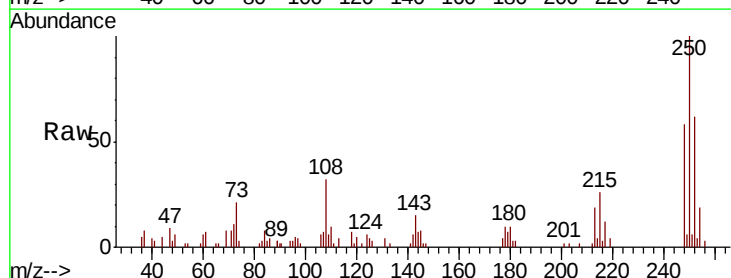
RT: 14.40 min Scan# 2026

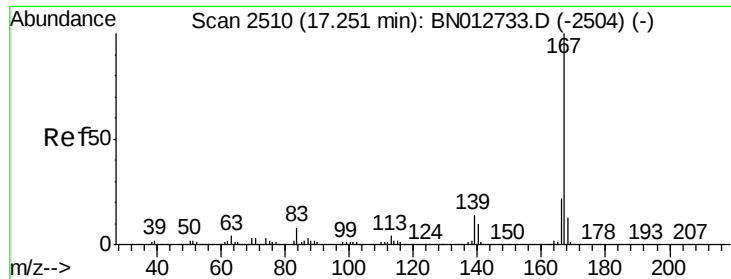
Delta R.T. -0.01 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion:	250	Resp:	27458
Ion Ratio	Lower	Upper	
250	100		
248	58.1	46.6	69.8
252	62.2	50.6	76.0





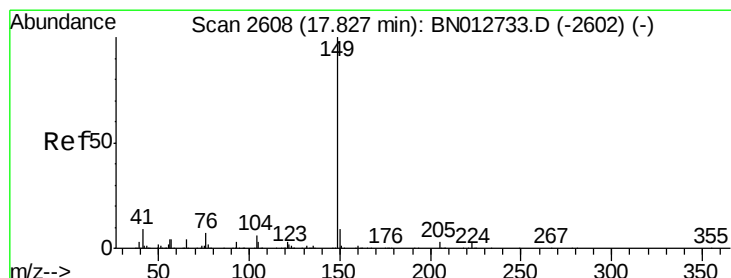
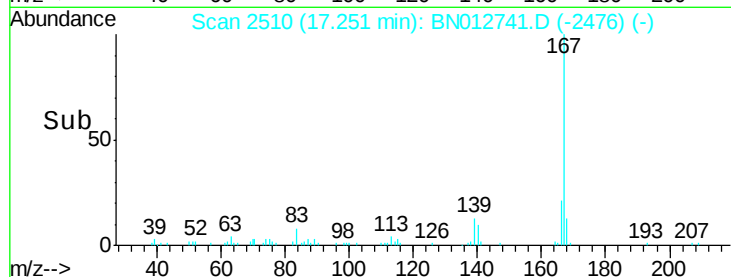
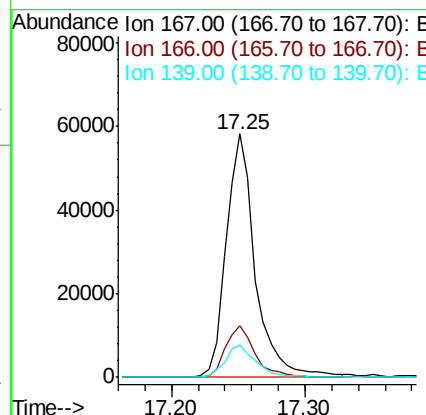
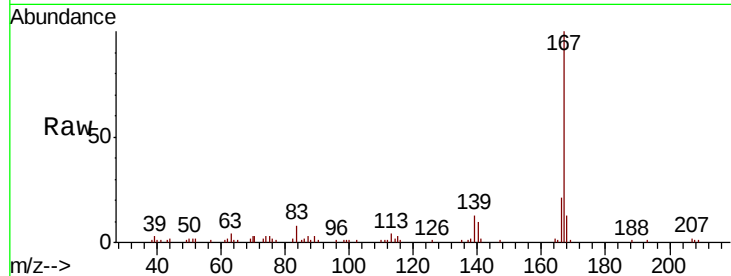
#77
 Carbazole
 Concen: 2.744 ng/ul
 RT: 17.25 min Scan# 2510
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.8	26.6
139	13.2	11.0	16.6

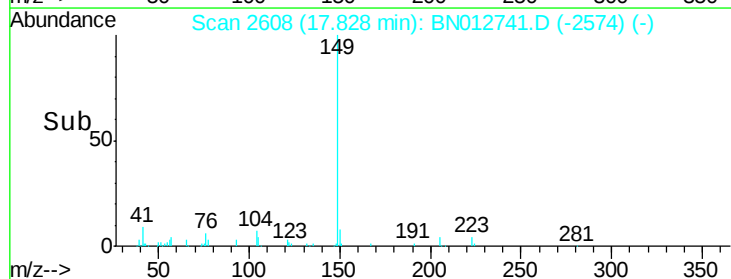
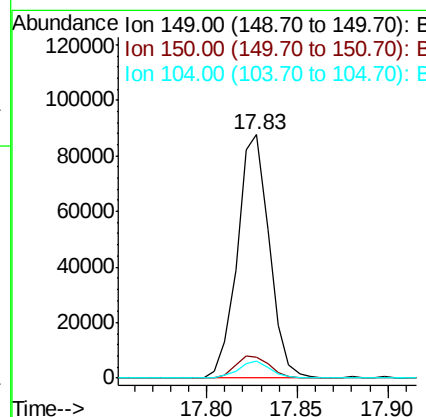
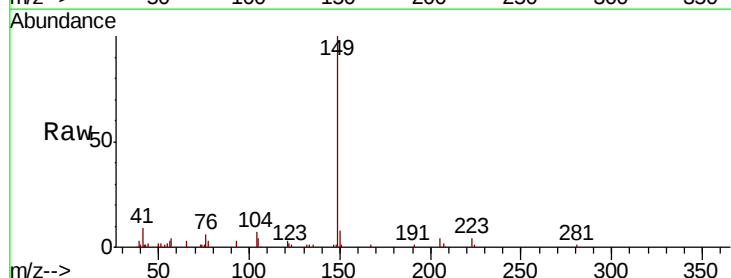
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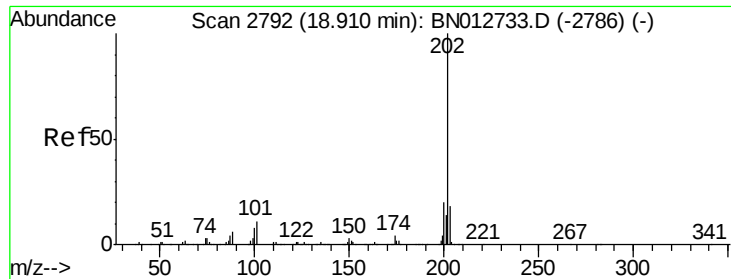
mohammad
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#78
 Di-n-butylphthalate
 Concen: 2.604 ng/ul
 RT: 17.83 min Scan# 2608
 Delta R.T. 0.00 min
 Lab File: BN012741.D
 Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
149	100		
150	8.4	7.4	11.0
104	7.0	4.8	7.2





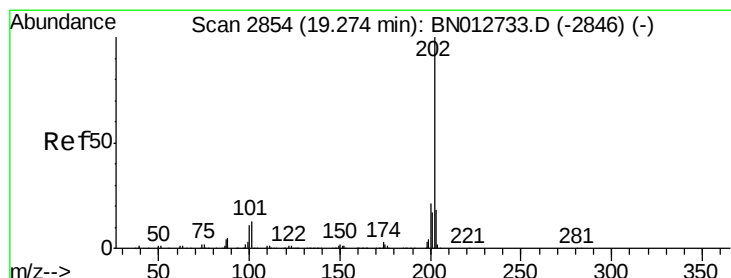
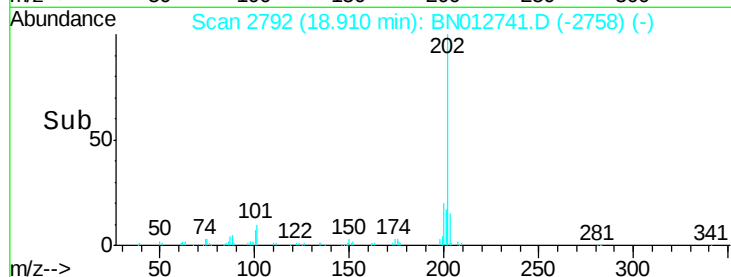
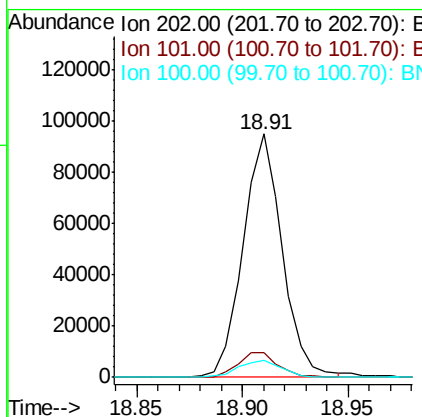
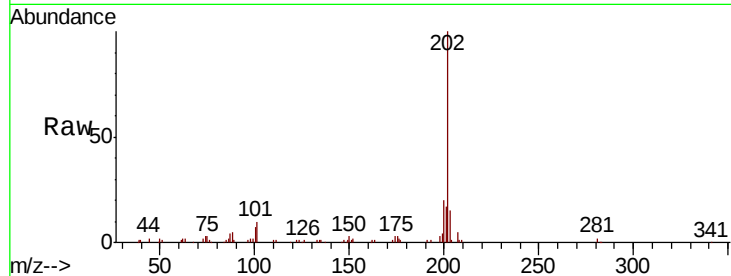
#80
Fluoranthene
Concen: 2.910 ng/ul
RT: 18.91 min Scan# 2792
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.0	8.5	12.7
100	7.2	6.6	10.0

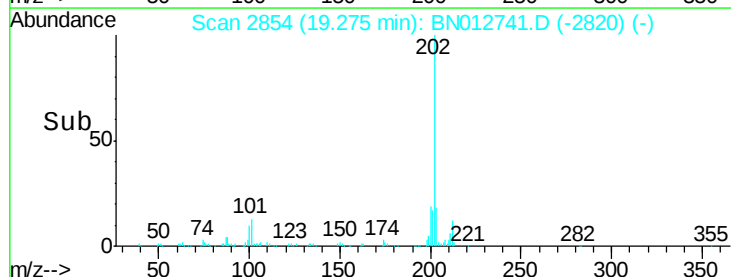
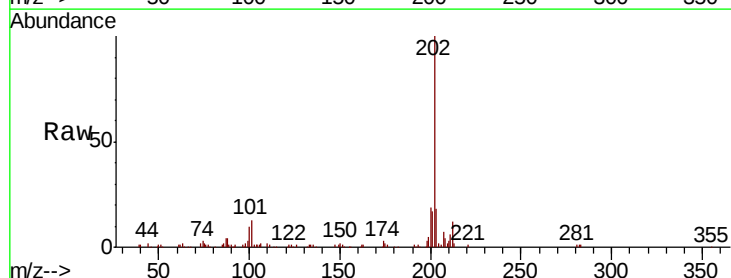
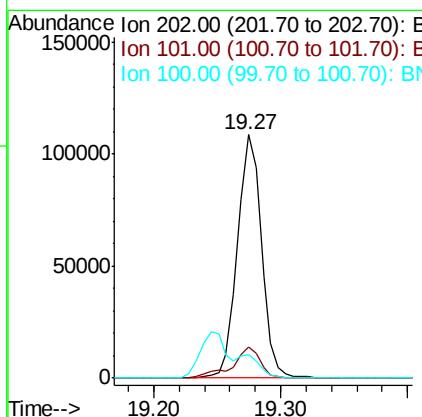
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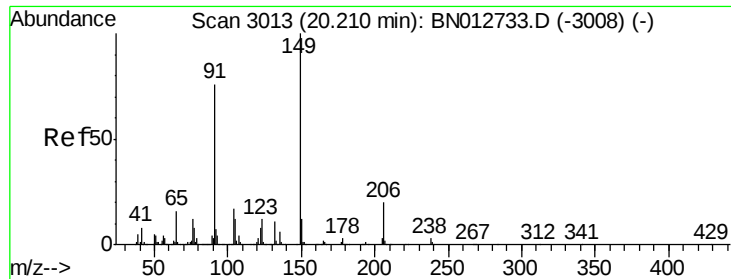
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#82
Pyrene
Concen: 3.261 ng/ul
RT: 19.27 min Scan# 2854
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
101	13.1	10.1	15.1
100	9.9	8.6	13.0





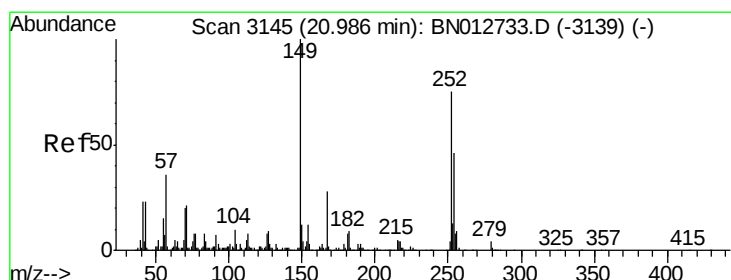
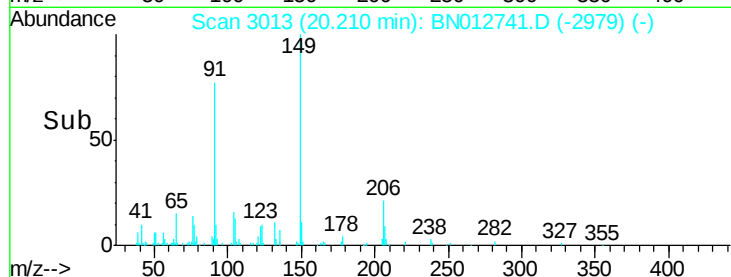
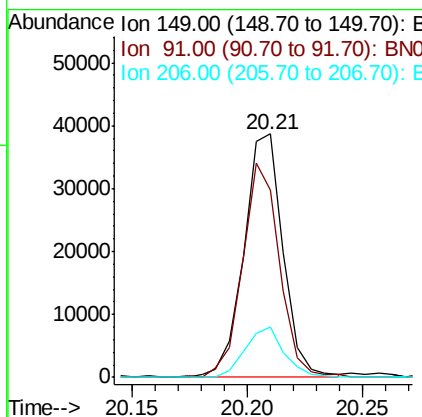
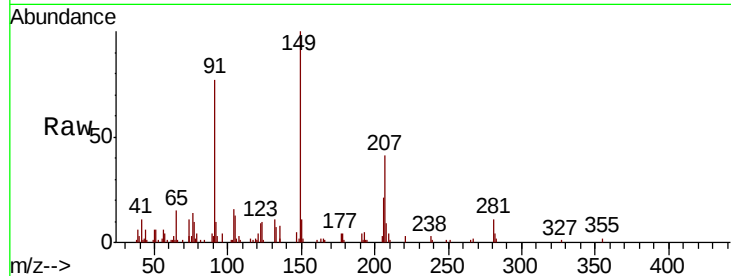
#83
Butylbenzylphthalate
Concen: 2.449 ng/ul
RT: 20.21 min Scan# 3013
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
149	100		
91	77.2	60.5	90.7
206	20.8	16.2	24.4

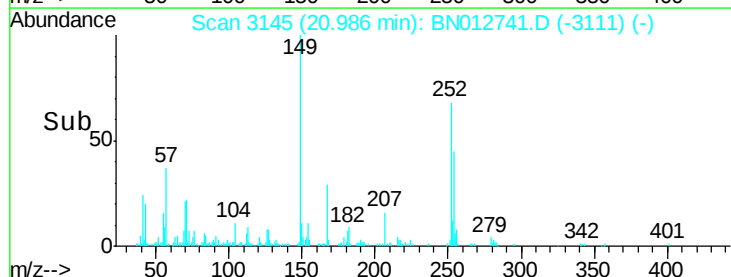
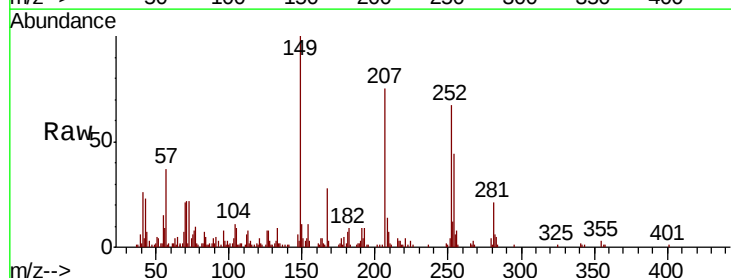
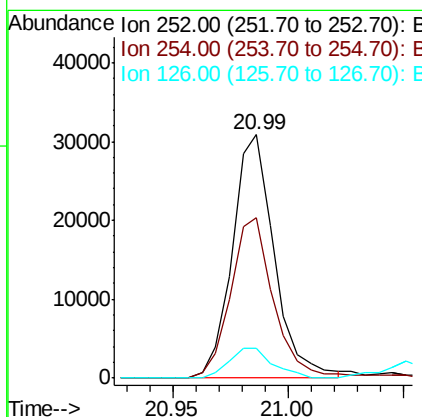
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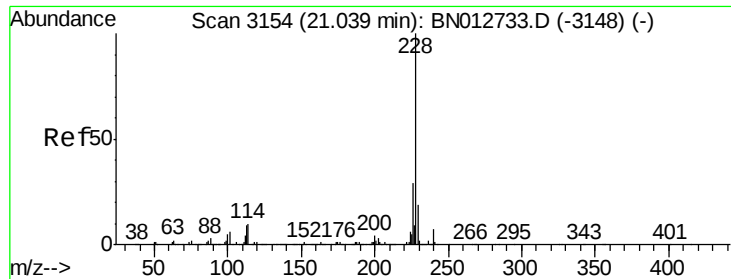
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#84
3,3'-Dichlorobenzidine
Concen: 2.606 ng/ul
RT: 20.99 min Scan# 3145
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
252	100		
254	65.8	49.7	74.5
126	12.1	8.6	13.0





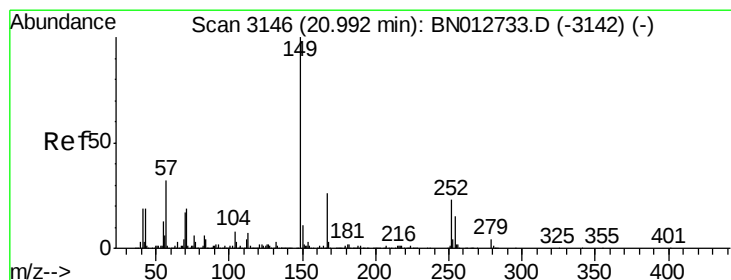
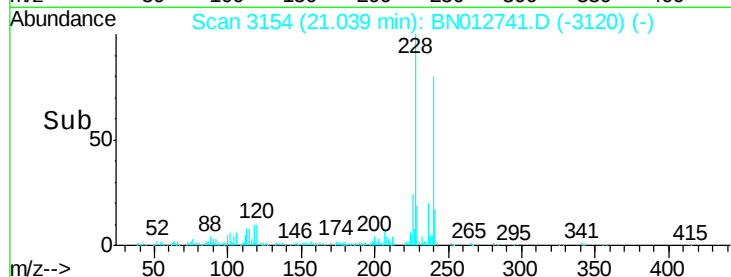
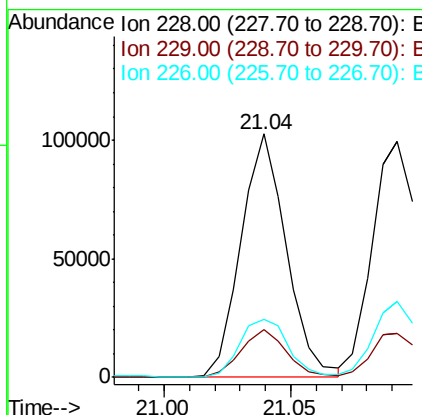
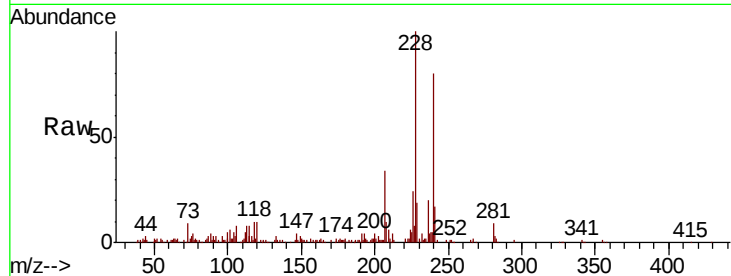
#85
Benzo(a)anthracene
Concen: 2.993 ng/ul
RT: 21.04 min Scan# 3154
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.6	23.4
226	23.8	22.9	34.3

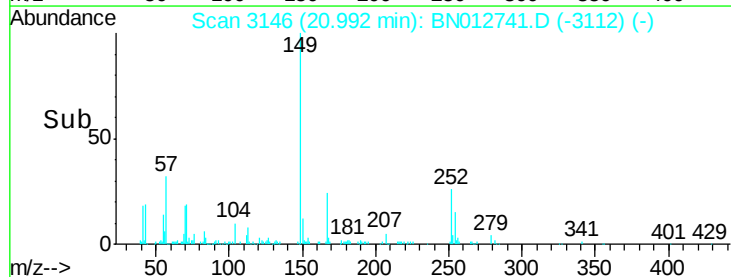
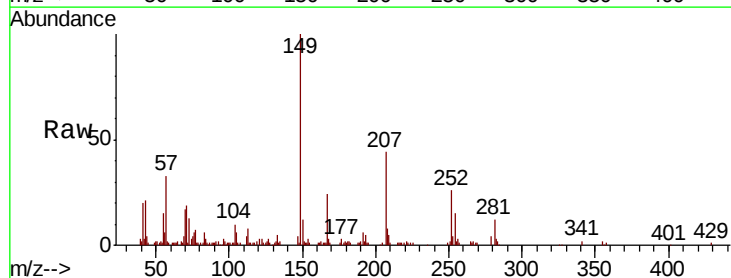
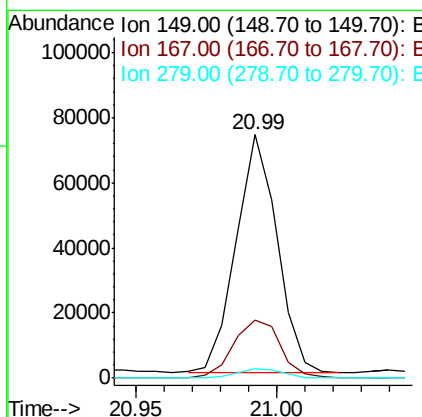
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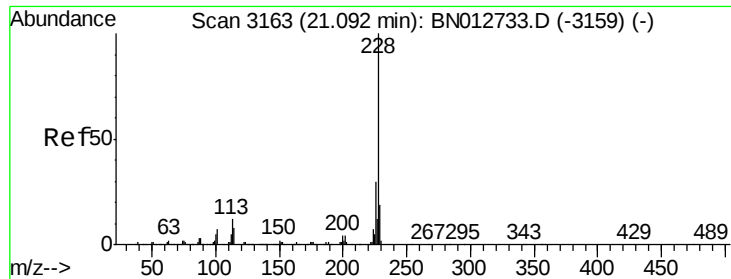
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#86
Bis(2-ethylhexyl)phthalate
Concen: 2.433 ng/ul
RT: 20.99 min Scan# 3146
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.6	20.7	31.1
279	4.1	3.1	4.7





#87

Chrysene

Concen: 3.035 ng/ul

RT: 21.09 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Instrument :

BNA_N

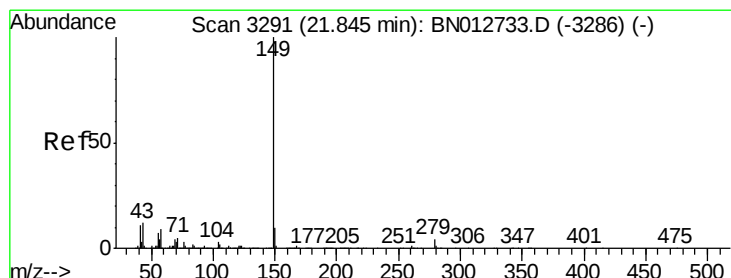
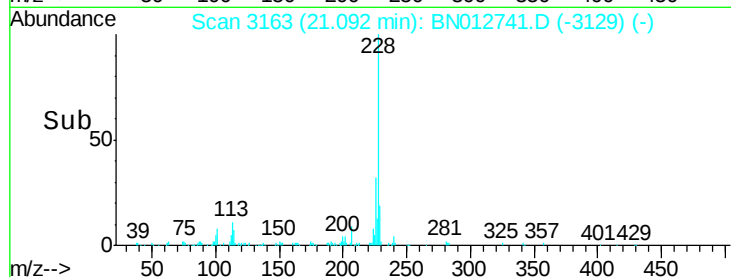
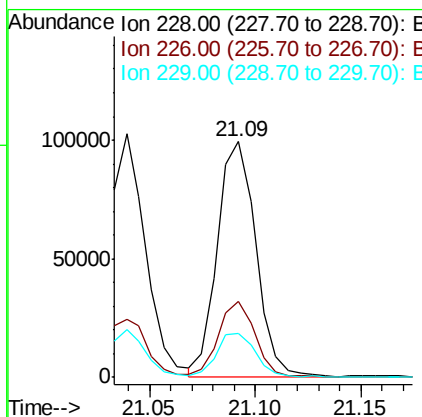
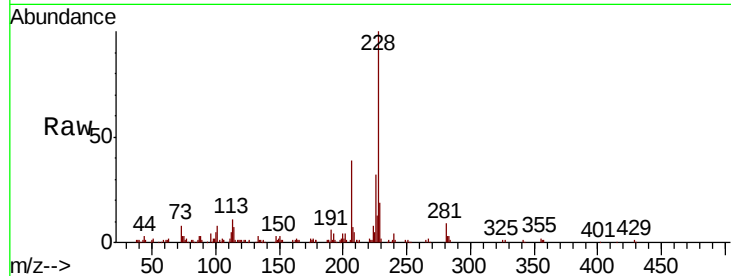
ClientSampleId :

MDL-WATER-02

Tot Ion:	228	Resp:	126537
Ion Ratio	Lower	Upper	
228	100		
226	32.2	23.8	35.6
229	18.8	15.1	22.7

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#89

Di-n-octyl phthalate

Concen: 2.142 ng/ul

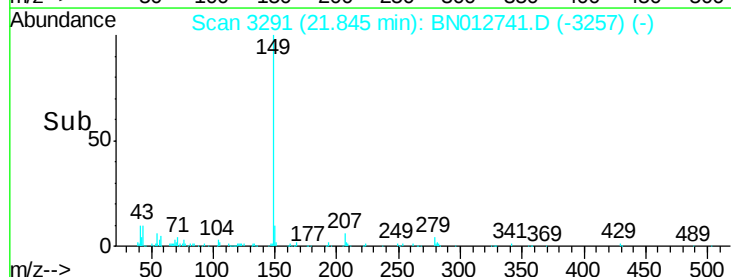
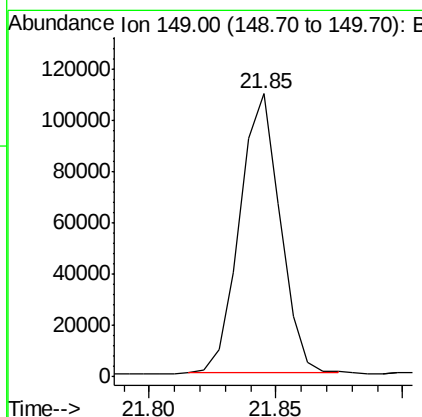
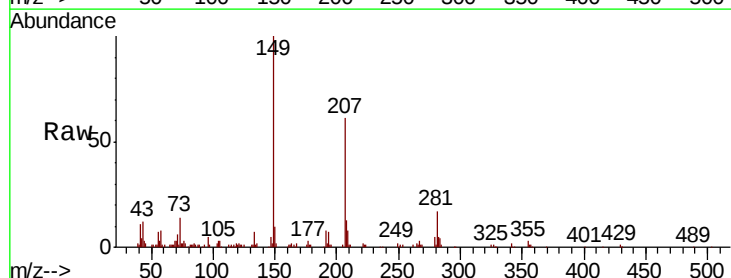
RT: 21.85 min Scan# 3291

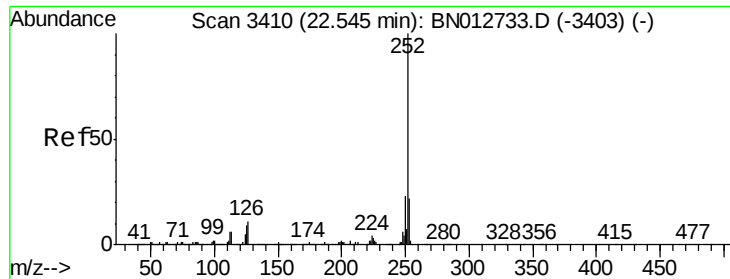
Delta R.T. 0.00 min

Lab File: BN012741.D

Acq: 25 Nov 2020 20:55

Tgt Ion:149 Resp: 121762





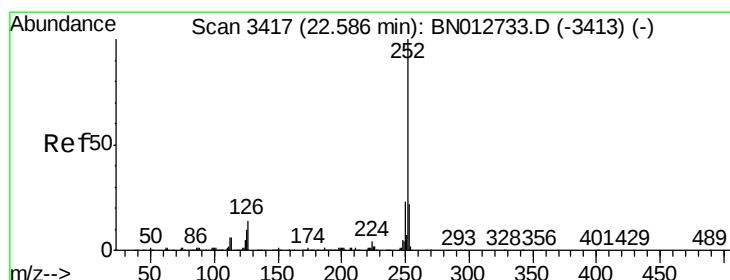
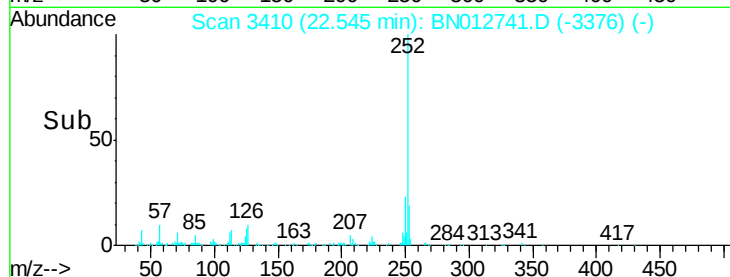
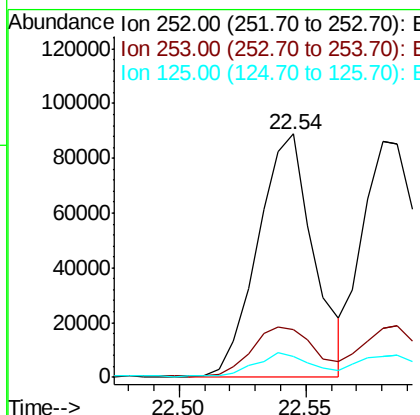
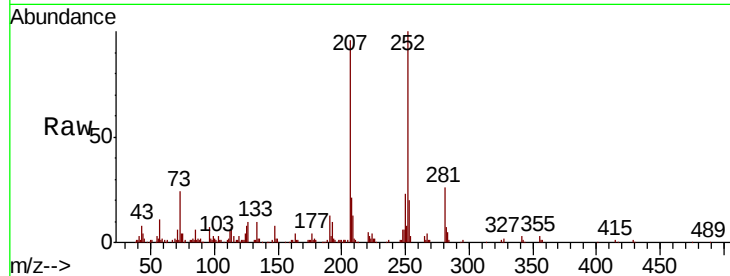
#90
Benzo(b)fluoranthene
Concen: 2.888 ng/ul
RT: 22.54 min Scan# 3410
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	19.7	17.7	26.5
125	8.4	7.6	11.4

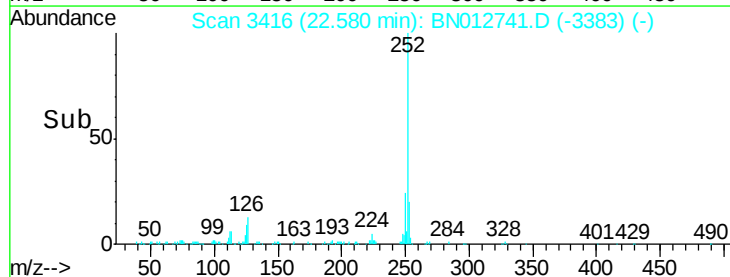
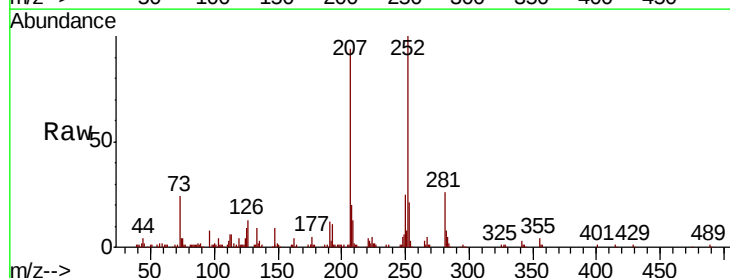
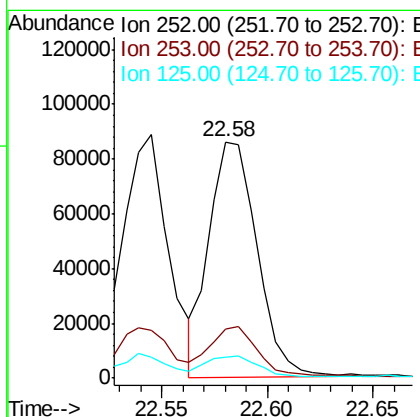
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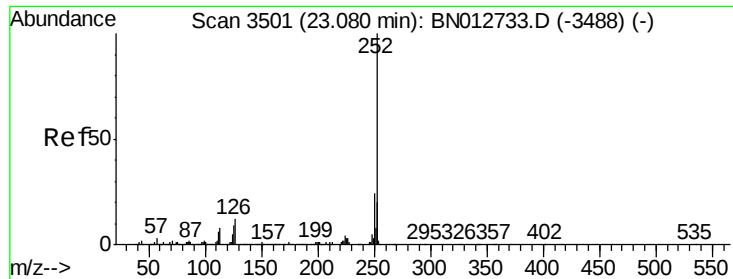
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#91
Benzo(k)fluoranthene
Concen: 2.864 ng/ul
RT: 22.58 min Scan# 3416
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.4	26.2
125	9.1	7.8	11.8





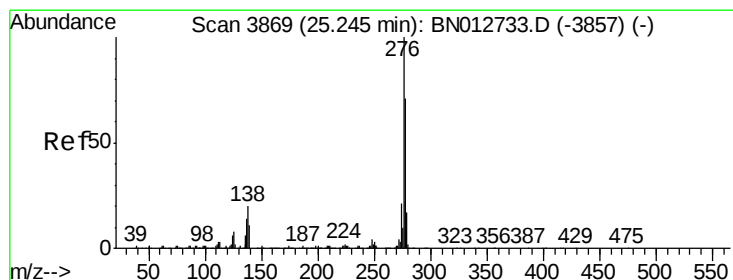
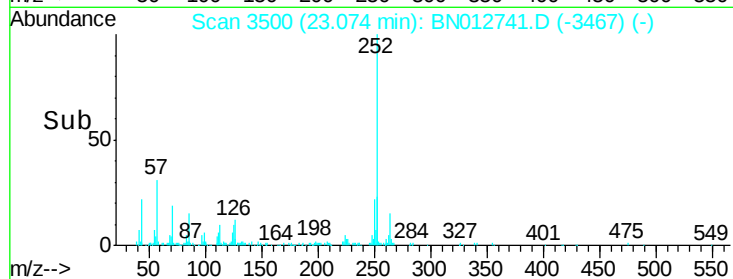
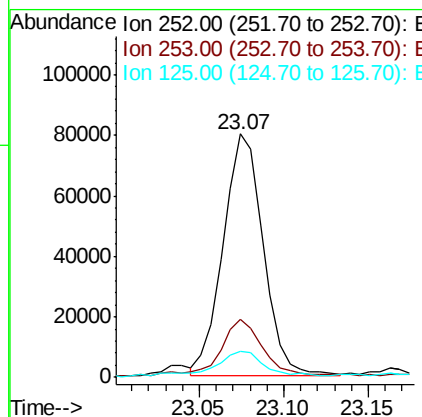
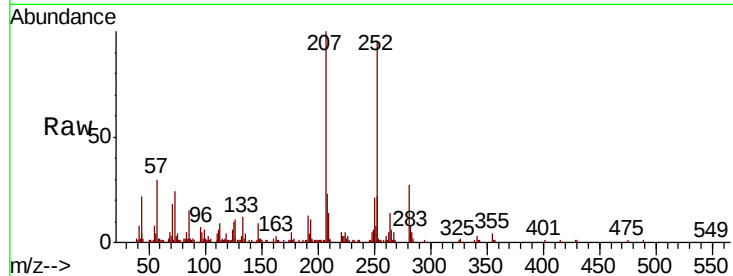
#93
Benzo(a)pyrene
Concen: 2.982 ng/u1
RT: 23.07 min Scan# 3500
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleID :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	16.1	24.1
125	10.7	7.4	11.0

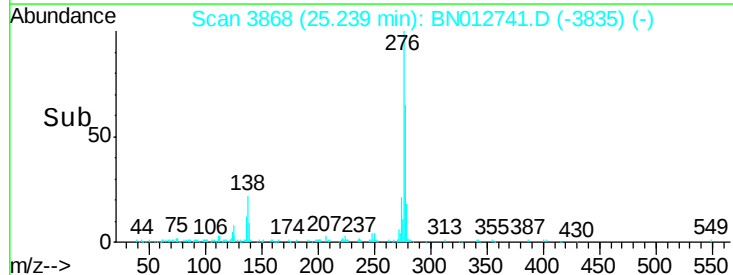
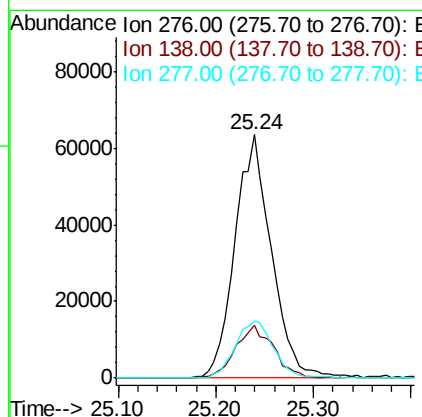
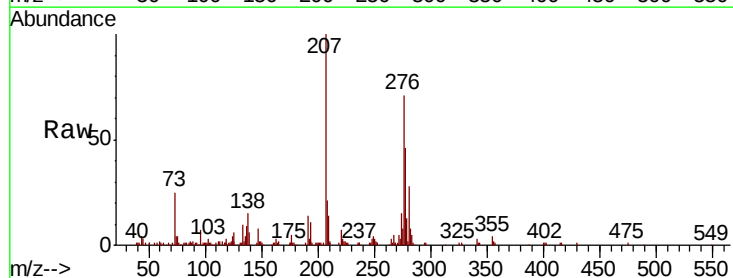
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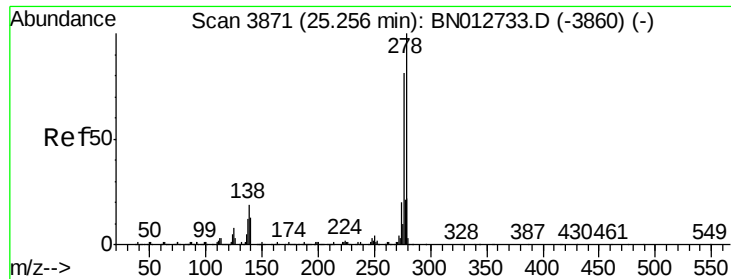
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#94
Indeno(1,2,3-cd)pyrene
Concen: 2.930 ng/u1
RT: 25.24 min Scan# 3868
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.3	24.5
277	23.3	17.7	26.5





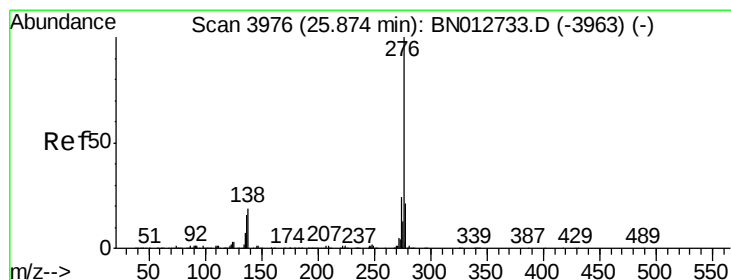
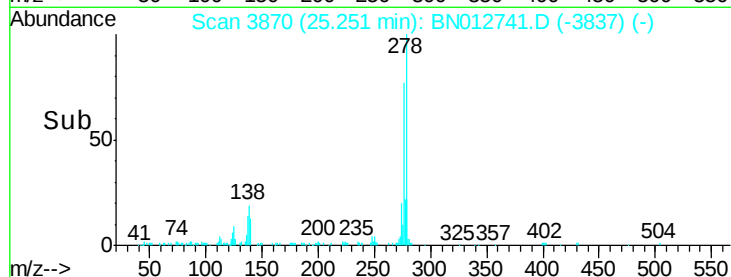
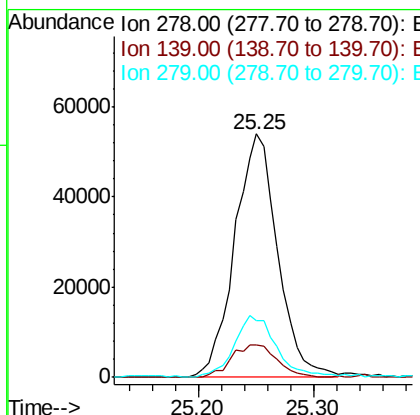
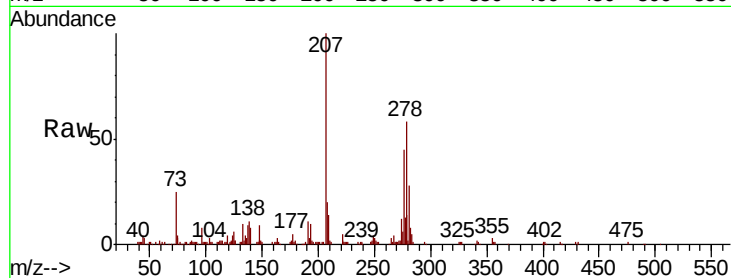
#95
Dibenzo(a,h)anthracene
Concen: 2.928 ng/ul
RT: 25.25 min Scan# 3870
Delta R.T. -0.01 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
278	100		
139	13.4	10.6	16.0
279	23.2	17.8	26.8

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#96
Benzo(g,h,i)perylene
Concen: 2.980 ng/ul
RT: 25.87 min Scan# 3976
Delta R.T. 0.00 min
Lab File: BN012741.D
Acq: 25 Nov 2020 20:55

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.2	15.0	22.4
277	23.0	16.5	24.7

