

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051832.D
 Acq On : 12 Oct 2018 15:01
 Operator : MD\SY
 Sample : J5164-07 2.5ppb
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:57 AM

Quant Time: Oct 13 03:25:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	127184	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	715417	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	590545	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	239205	30.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.03%
60) 4-Bromofluorobenzene	12.40	95	219383	25.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.87%
63) Toluene-d8	10.09	98	818336	31.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.37%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	13573	2.75	ug/l	100
3) Chloromethane	2.06	50	15091	2.89	ug/l	94
4) Vinyl Chloride	2.18	62	21902	2.81	ug/l	94
5) Bromomethane	2.57	94	25493	3.70	ug/l	88
6) Chloroethane	2.70	64	16339	2.91	ug/l	98
7) Trichlorofluoromethane	3.01	101	28393	2.55	ug/l	99
8) Diethyl Ether	3.42	74	8838	2.73	ug/l	73
9) 1,1,2-Trichlorotrifluoroet	3.76	101	18173	2.87	ug/l #	43
10) 1,1-Dichloroethene	3.75	96	16288m	2.78	ug/l	
11) Methyl Iodide	3.96	142	16521	1.94	ug/l	97
12) Methyl Acetate	4.33	43	11488	3.16	ug/l	96
13) Acrolein	3.61	56	4542	18.96	ug/l	90
14) Acrylonitrile	5.00	53	19206	11.82	ug/l #	41
15) Acetone	3.82	58	5388m	13.41	ug/l	
16) Carbon Disulfide	4.05	76	38286	2.49	ug/l	96
17) Allyl chloride	4.33	41	17626	2.54	ug/l	79
18) Methylene Chloride	4.55	84	18232	2.78	ug/l #	84
19) trans-1,2-Dichloroethene	5.04	96	18087m	2.71	ug/l	
20) Diisopropyl ether	5.96	45	40885	2.64	ug/l #	83
21) 1,1-Dichloroethane	5.86	63	29209m	2.70	ug/l	
22) cis-1,2-Dichloroethene	6.84	96	21124m	2.69	ug/l	
23) tert-Butyl Alcohol	4.79	59	5972m	13.95	ug/l	
24) Methyl tert-Butyl Ether	5.05	73	46259	2.74	ug/l #	95
25) Chloroform	7.37	83	34169	2.66	ug/l	86
26) Cyclohexane	7.65	56	23913	2.61	ug/l #	70
29) 1,1-Dichloropropene	7.80	75	23958	2.60	ug/l	96
30) 2-Butanone	6.84	43	23514m	12.20	ug/l	
31) 2,2-Dichloropropane	6.82	77	25974m	2.39	ug/l	
32) 1,1,1-Trichloroethane	7.57	97	32292	2.64	ug/l	94
33) Carbon Tetrachloride	7.78	117	26820	2.42	ug/l	89
34) Benzene	8.05	78	71213	2.61	ug/l #	80
35) Methacrylonitrile	7.21	41	9005m	3.56	ug/l	
36) 1,2-Dichloroethane	8.13	62	24062	2.75	ug/l #	94
37) Trichloroethene	8.84	130	21474	2.54	ug/l	99
38) Methylcyclohexane	9.09	83	29876	2.53	ug/l	79
39) 1,2-Dichloropropane	9.12	63	16922	2.63	ug/l	99
40) Dibromomethane	9.21	93	13142	2.76	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	24123	2.45	ug/l #	98
42) Vinyl Acetate	5.90	43	133143	12.27	ug/l #	92
43) Ethyl Acetate	6.95	43	6967	1.66	ug/l	97
44) Isopropyl Acetate	8.17	43	20683	2.47	ug/l #	89
45) 1,4-Dioxane	9.21	88	3921m	58.41	ug/l	
46) Methyl methacrylate	9.20	41	10534	2.73	ug/l	76
47) n-amyl Acetate	12.08	43	12173	1.74	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	19950	2.08	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	23889	2.26	ug/l	92
50) 1,1,2-Trichloroethane	10.56	97	16184	2.46	ug/l	94
51) Ethyl methacrylate	10.43	69	16925	2.24	ug/l	81
52) 1,3-Dichloropropane	10.71	76	25359	2.49	ug/l	97
53) Dibromochloromethane	10.90	129	16292	2.00	ug/l	99
54) 1,2-Dibromoethane	11.01	107	15208	2.20	ug/l	93
55) 2-Chloroethyl vinyl ether	9.70	63	37125	11.51	ug/l #	94
56) Bromoform	12.13	173	8864	1.65	ug/l #	92
58) 4-Methyl-2-Pentanone	9.99	43	55421	14.02	ug/l #	87
59) 2-Hexanone	10.75	43	30961m	11.61	ug/l	
61) Tetrachloroethene	10.63	164	20539	2.72	ug/l	98
62) Toluene	10.16	91	80677	2.75	ug/l	99
64) Chlorobenzene	11.44	112	50494	2.63	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.51	131	18137	2.46	ug/l	98
66) Ethyl Benzene	11.51	91	82920	2.56	ug/l	99
67) m/p-Xylenes	11.62	106	61779	4.70	ug/l	97
68) o-Xylene	11.95	106	31620	2.44	ug/l	97
69) Styrene	11.97	104	42796	2.15	ug/l	99
70) Isopropylbenzene	12.25	105	83763	2.42	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	17245	2.53	ug/l	93
72) 1,2,3-Trichloropropane	12.55	75	14415m	2.68	ug/l	
73) Bromobenzene	12.53	156	18761	2.19	ug/l	89
74) n-propylbenzene	12.59	91	83202	2.24	ug/l	99
75) 2-Chlorotoluene	12.67	91	52022	2.39	ug/l	95
76) 1,3,5-Trimethylbenzene	12.73	105	65887	2.31	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	2954	1.66	ug/l	92
78) 4-Chlorotoluene	12.77	91	43357	2.02	ug/l	94
79) tert-butylbenzene	12.99	119	61455	2.34	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	60840	2.13	ug/l	97
81) sec-Butylbenzene	13.17	105	76178	2.22	ug/l	97
82) p-Isopropyltoluene	13.29	119	60872	1.98	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	27177	1.80	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	24152	1.70	ug/l	94
85) n-Butylbenzene	13.62	91	35314	1.52	ug/l	95
86) Hexachloroethane	13.88	117	10451	1.97	ug/l	84
87) 1,2-Dichlorobenzene	13.65	146	29052	1.99	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2110	2.07	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	7516	8.51	ug/l	98
90) Hexachlorobutadiene	15.01	225	10625	2.25	ug/l	97
91) Naphthalene	15.14	128	19298	9.50	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	9586m	1.44	ug/l	

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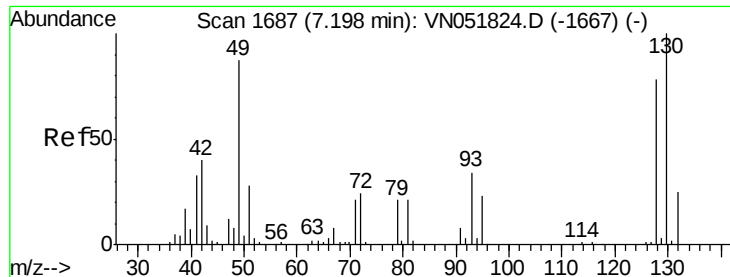
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

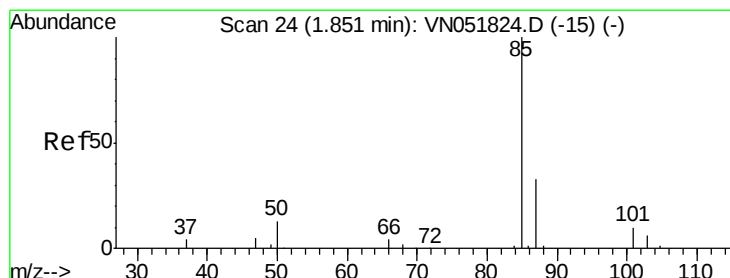
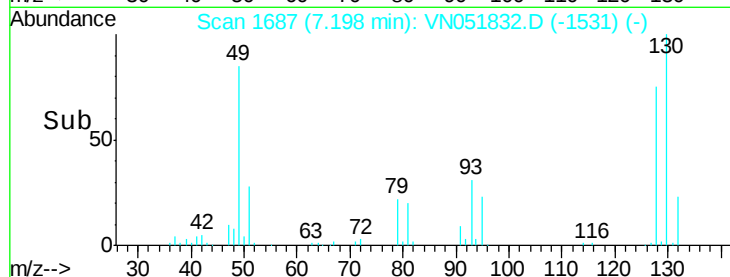
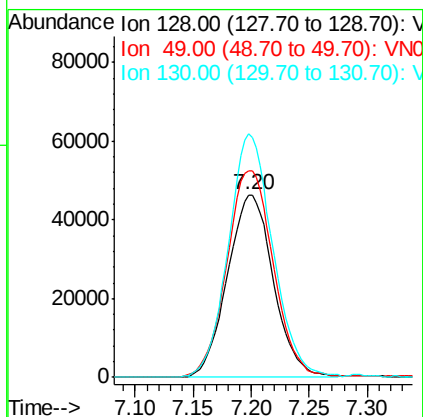
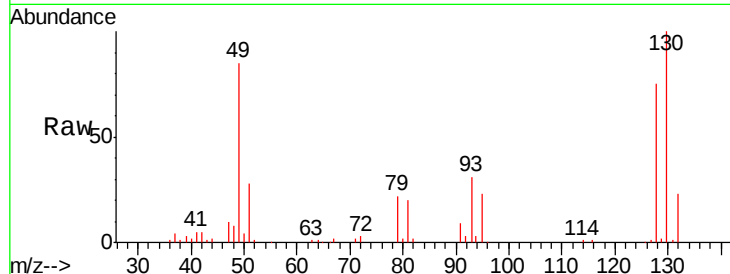
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	128	Resp:	127184
Ion	Ratio	Lower	Upper
128	100		
49	115.2	0.0	403.3
130	129.4	0.0	326.0

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#2

Dichlorodifluoromethane

Concen: 2.75 ug/l

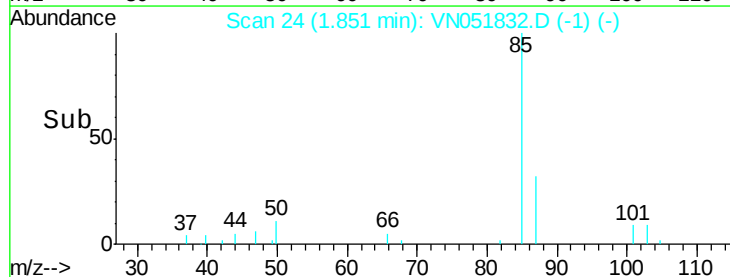
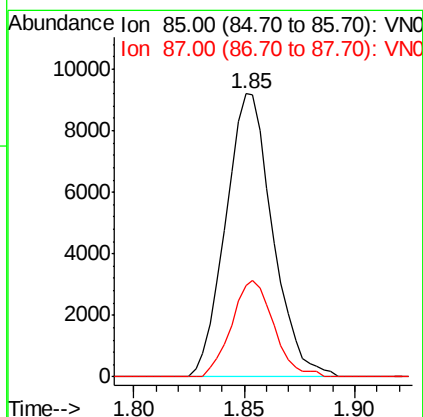
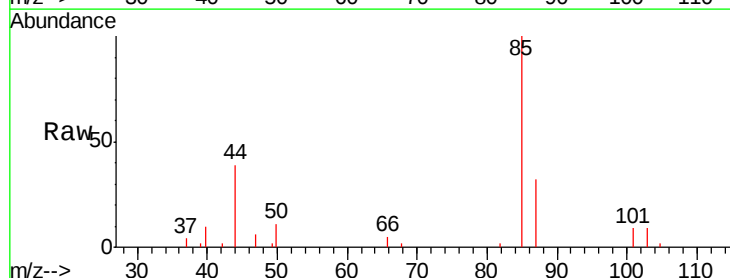
RT: 1.85 min Scan# 24

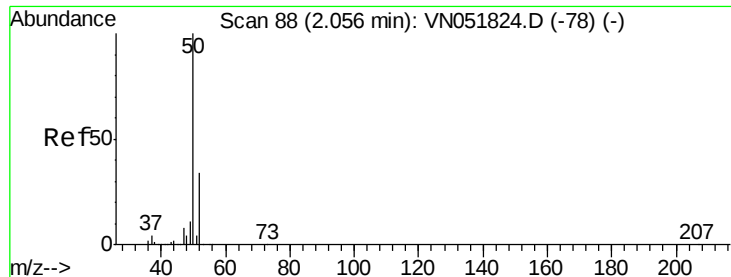
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	85	Resp:	13573
Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.3	48.8





#3

Chloromethane

Concen: 2.89 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 50 Resp: 15091

Ion Ratio Lower Upper

50 100

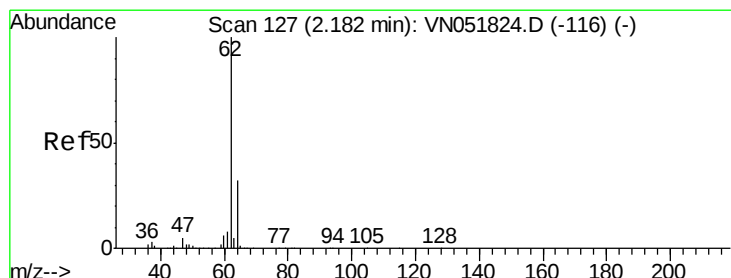
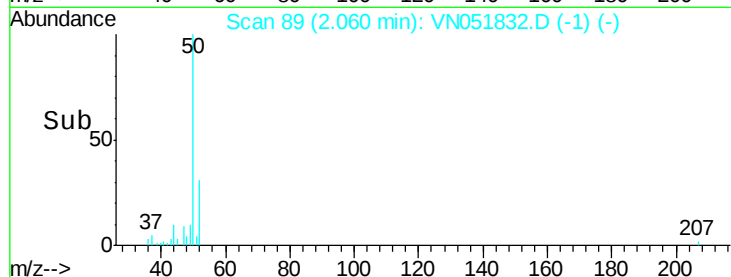
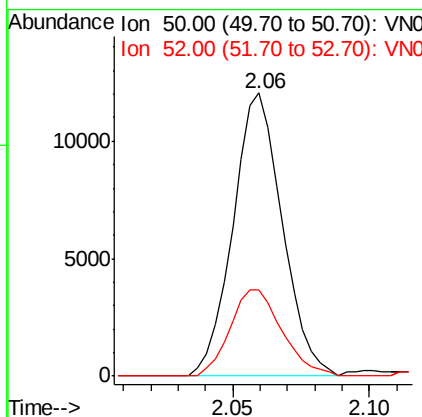
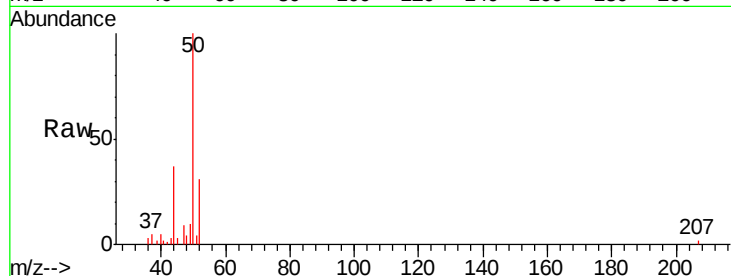
52 30.6 27.2 40.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.81 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051832.D

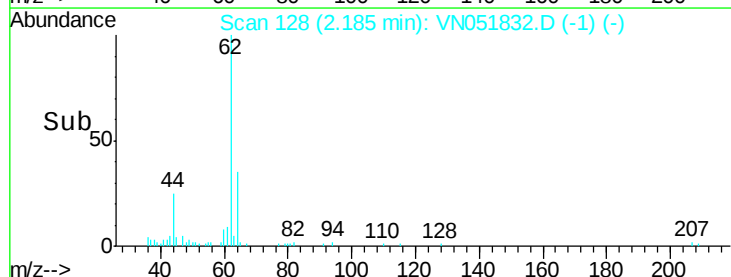
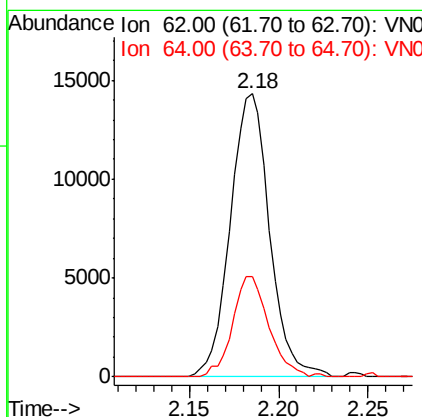
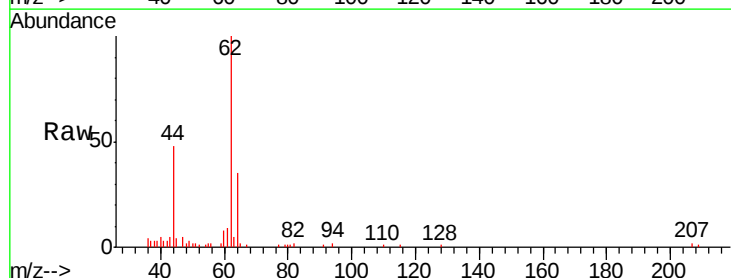
Acq: 12 Oct 2018 15:01

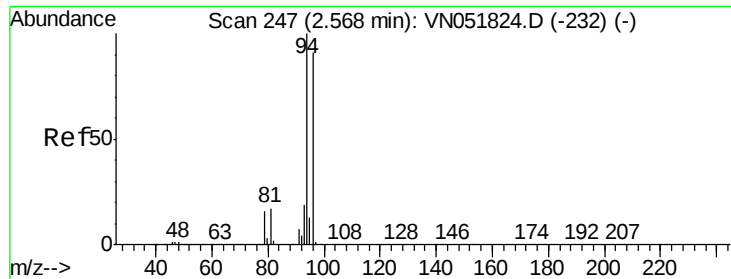
Tgt Ion: 62 Resp: 21902

Ion Ratio Lower Upper

62 100

64 35.4 25.4 38.2





#5

Bromomethane

Concen: 3.70 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051832.D

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Instrument :

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Tgt Ion: 94 Resp: 25493

Ion Ratio Lower Upper

94 100

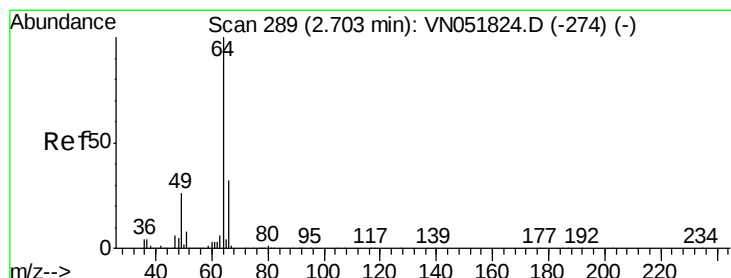
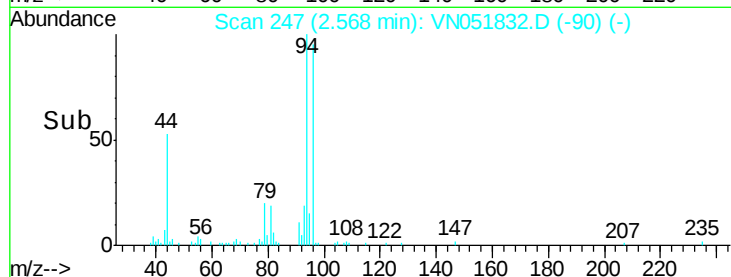
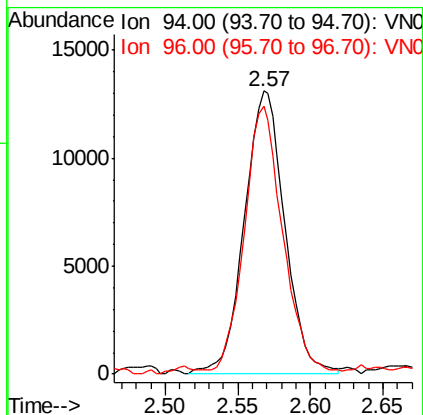
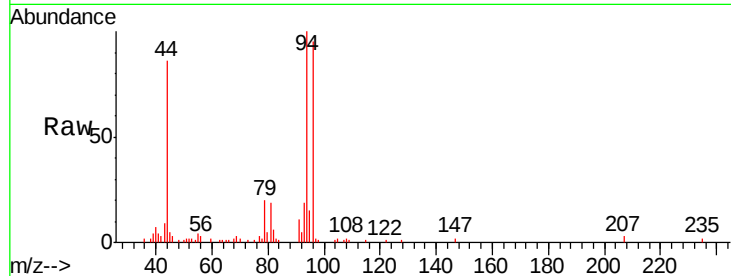
96 93.4 66.4 99.6

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#6

Chloroethane

Concen: 2.91 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051832.D

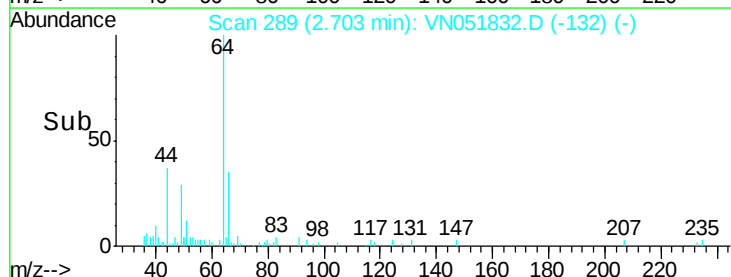
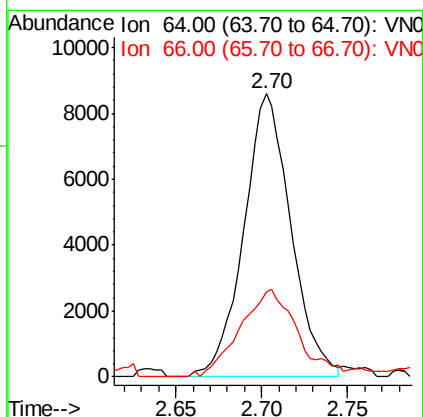
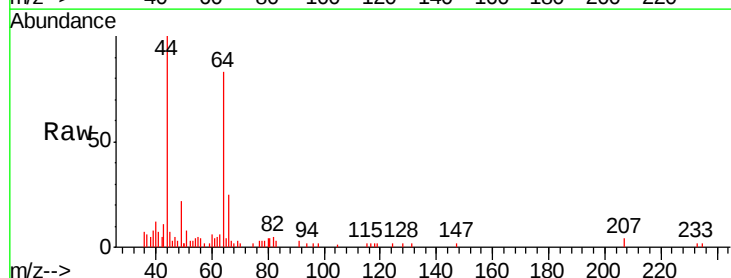
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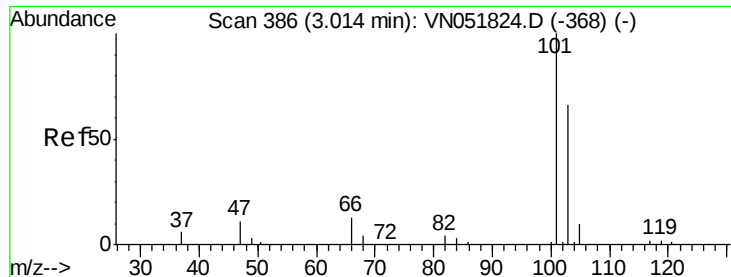
Tgt Ion: 64 Resp: 16339

Ion Ratio Lower Upper

64 100

66 30.9 25.8 38.6





#7

Trichlorofluoromethane

Concen: 2.55 ug/l

RT: 3.01 min Scan# 386

Delta R.T. 0.00 min

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Tgt Ion: 101 Resp: 28393

Ion Ratio Lower Upper

101 100

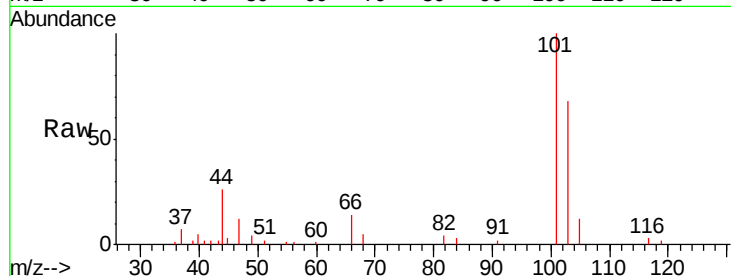
103 67.9 54.8 82.2

Manual Integrations

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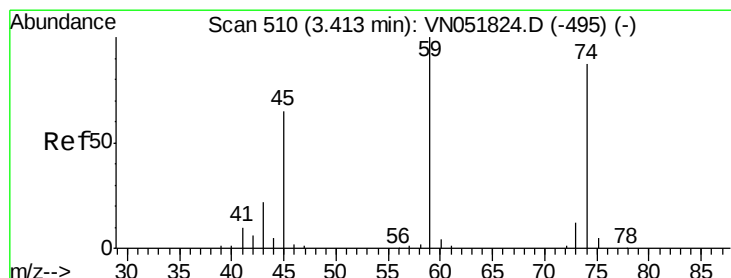
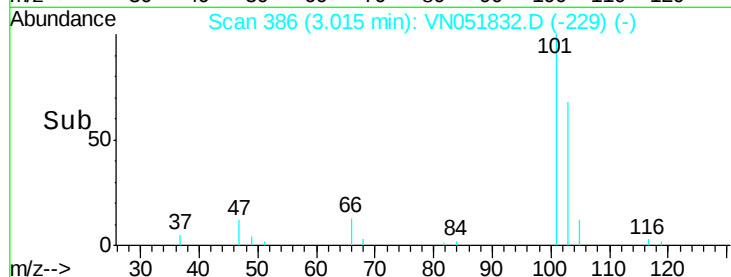
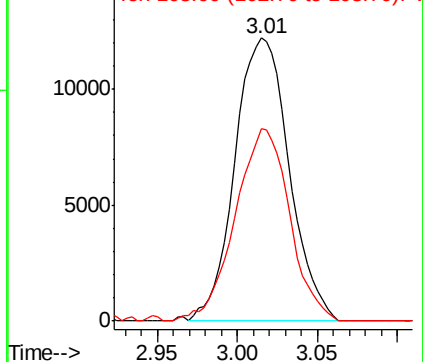
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.73 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN051832.D

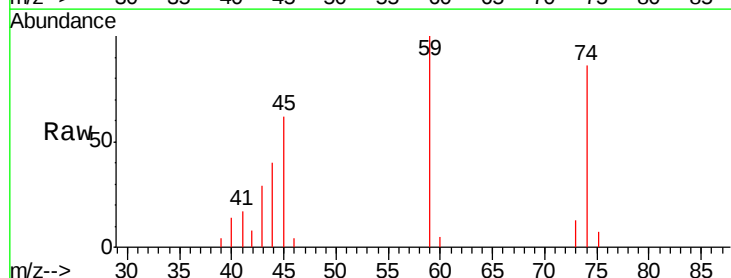
Acq: 12 Oct 2018 15:01

Tgt Ion: 74 Resp: 8838

Ion Ratio Lower Upper

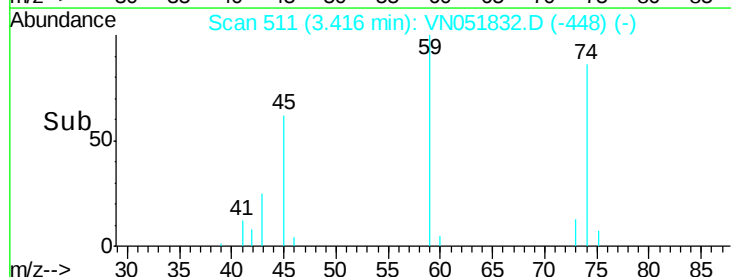
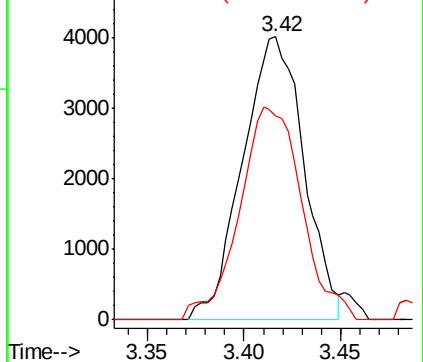
74 100

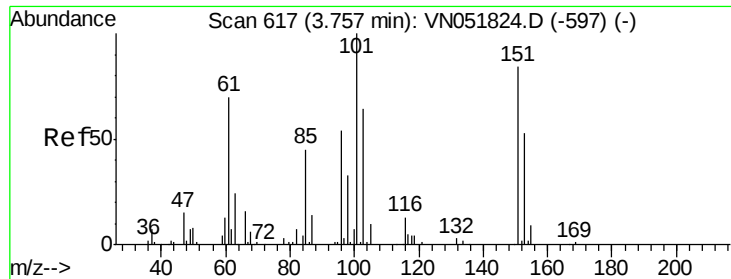
45 76.4 20.7 186.5



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.87 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

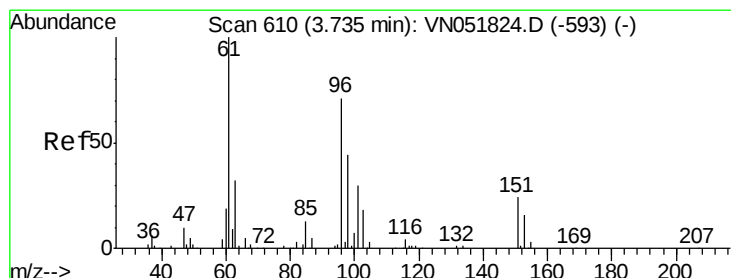
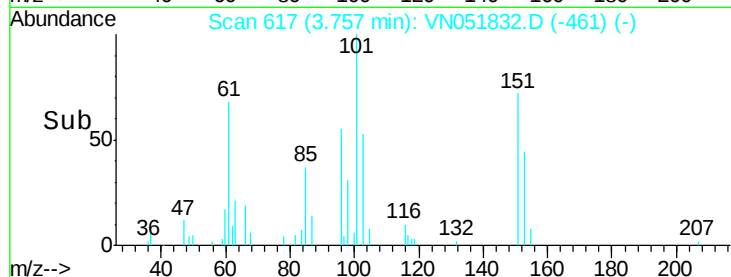
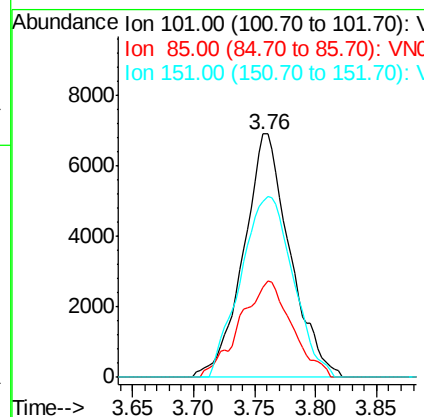
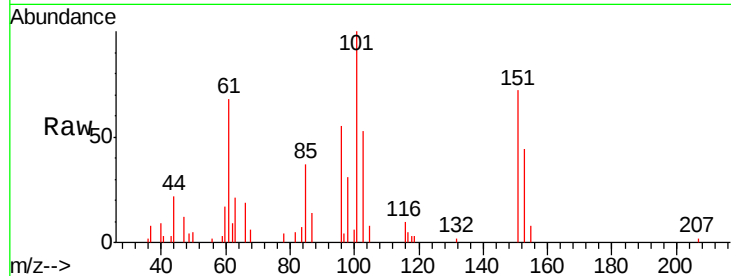
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	101	Resp:	18173
Ion Ratio	Lower	Upper	
101	100		
85	40.6	0.0	46.0
151	84.1	0.0	82.2#

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#10

1,1-Dichloroethene

Concen: 2.78 ug/l m

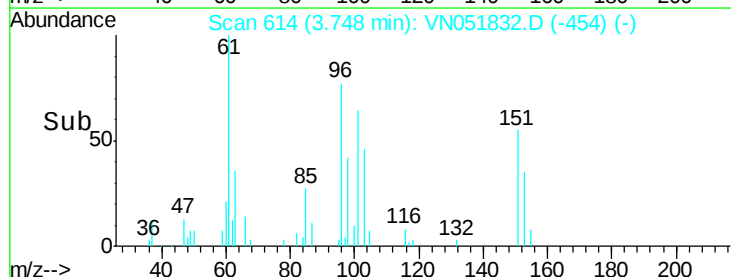
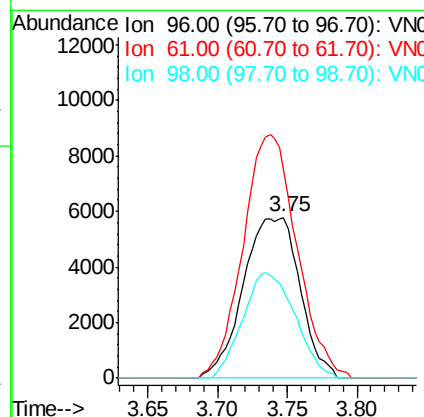
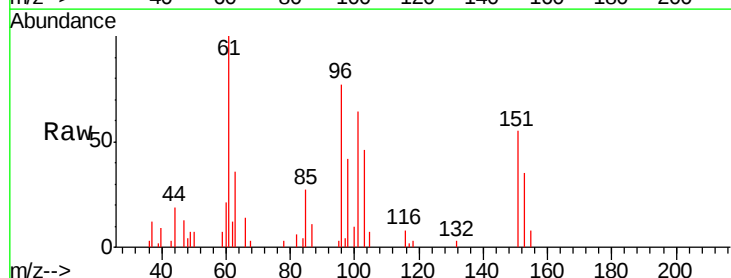
RT: 3.75 min Scan# 614

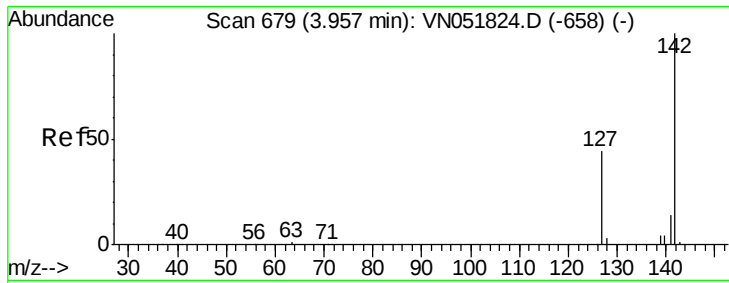
Delta R.T. 0.01 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	96	Resp:	16288
Ion Ratio	Lower	Upper	
96	100		
61	129.8	133.0	199.6#
98	54.0	52.6	78.8





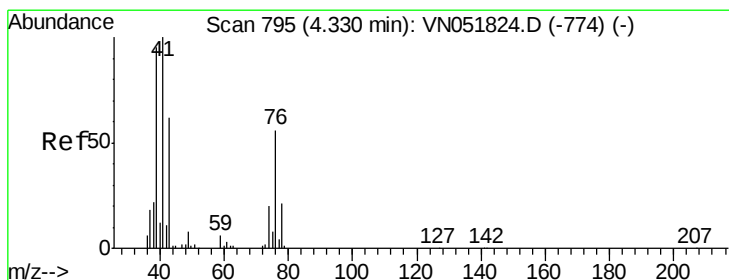
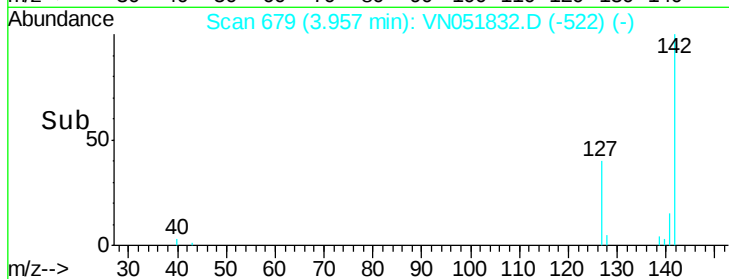
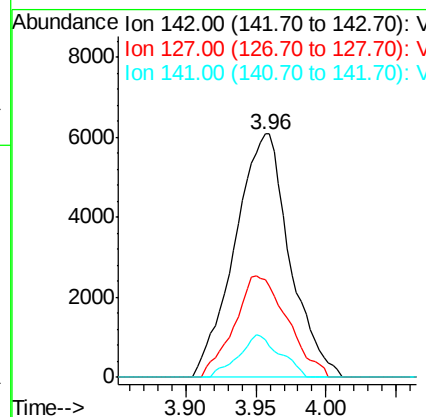
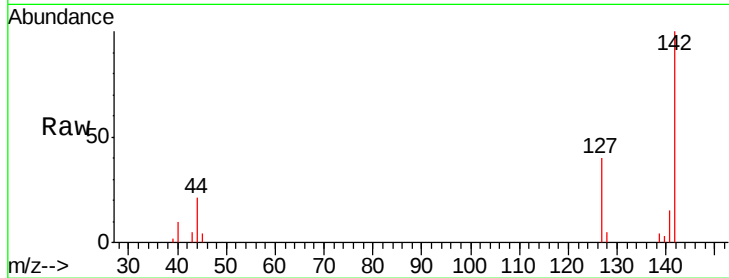
#11
Methyl Iodide
Concen: 1.94 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.2	19.7	59.0
141	15.4	6.3	18.9

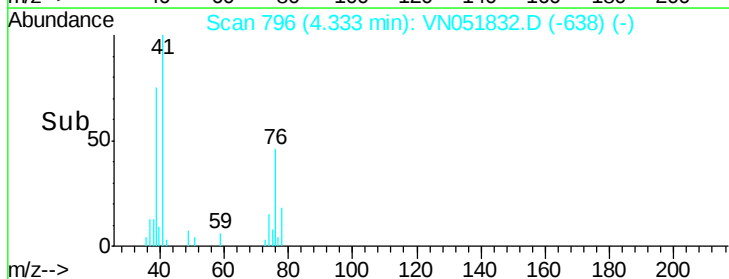
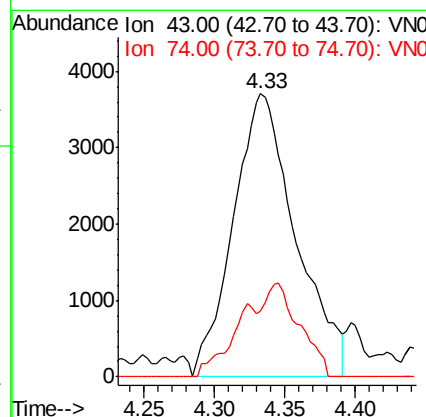
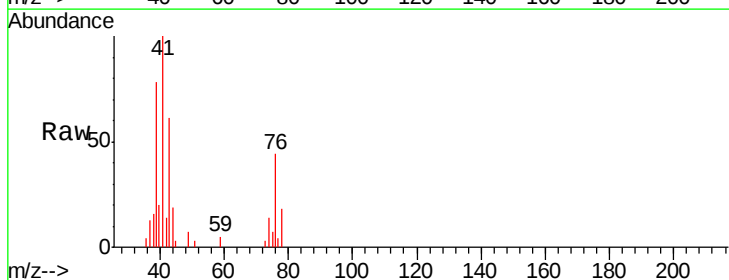
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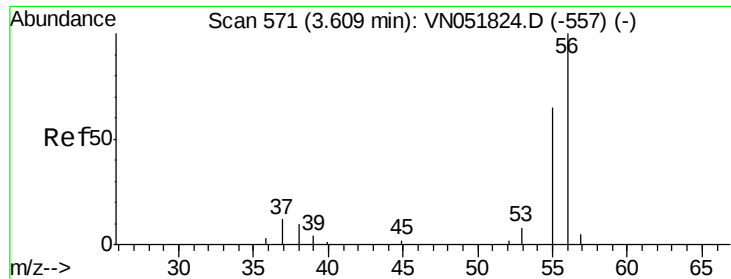
MMDadoda
10/15/2018 11:27:57 AM



#12
Methyl Acetate
Concen: 3.16 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.2	21.8	32.6





#13

Acrolein

Concen: 18.96 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 56 Resp: 4542

Ion Ratio Lower Upper

56 100

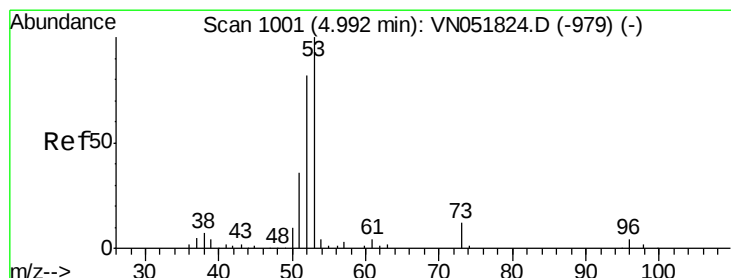
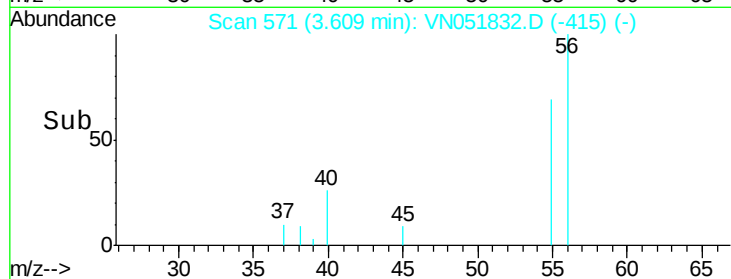
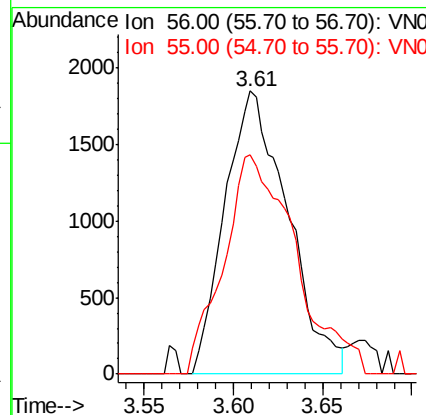
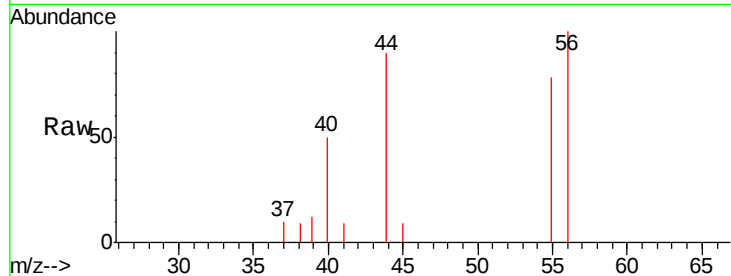
55 88.4 64.0 96.0

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#14

Acrylonitrile

Concen: 11.82 ug/l

RT: 5.00 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

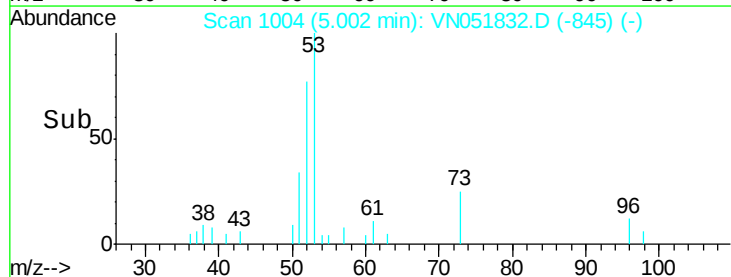
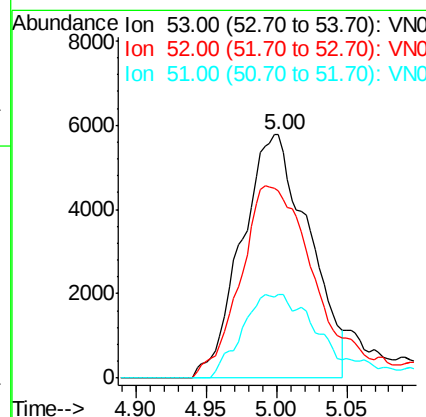
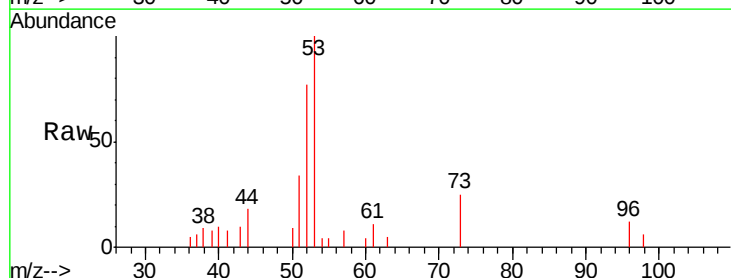
Tgt Ion: 53 Resp: 19206

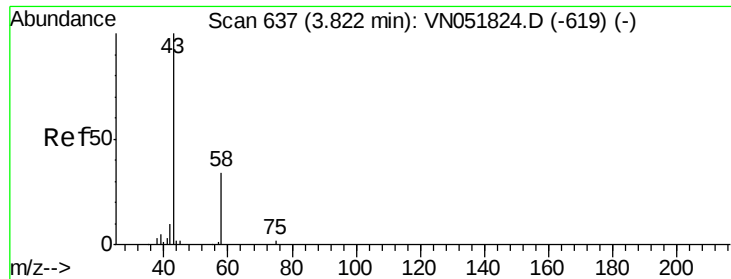
Ion Ratio Lower Upper

53 100

52 85.9 18.3 54.8#

51 17.0 19.7 59.1#





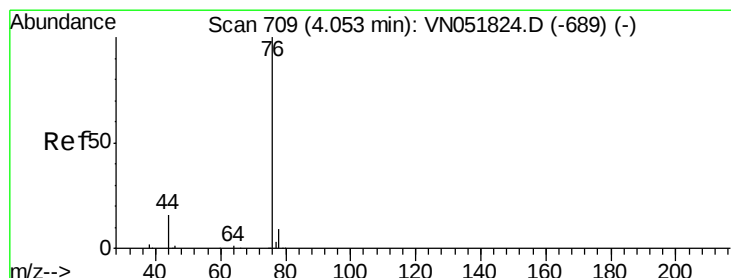
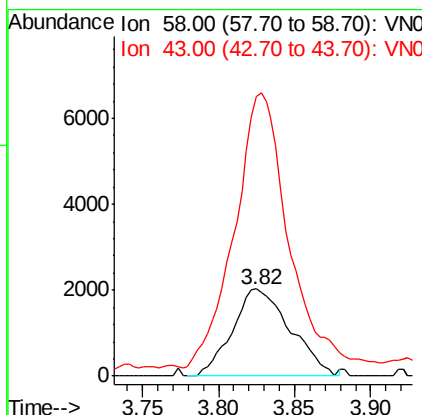
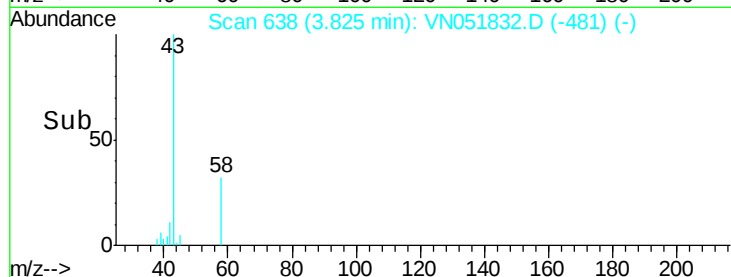
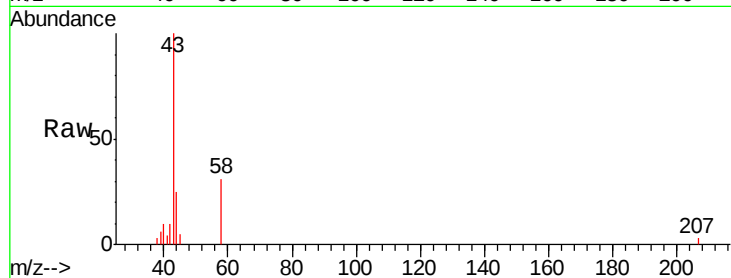
#15
Acetone
Concen: 13.41 ug/l m
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 58 Resp: 5388
Ion Ratio Lower Upper
58 100
43 321.4 232.2 348.2

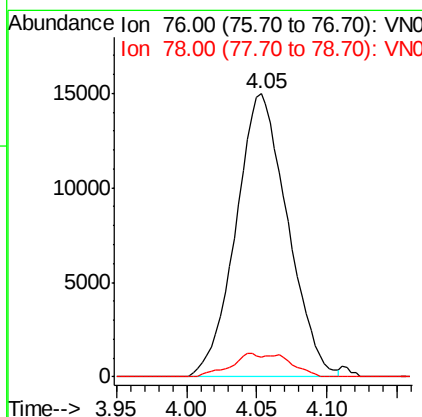
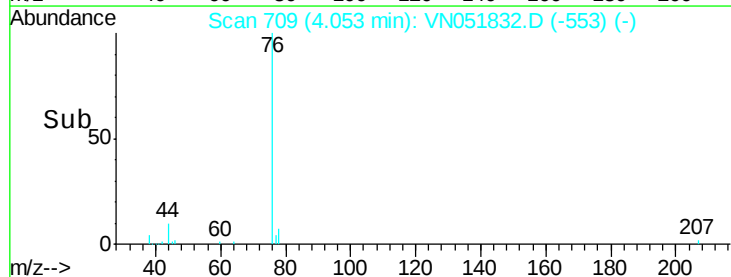
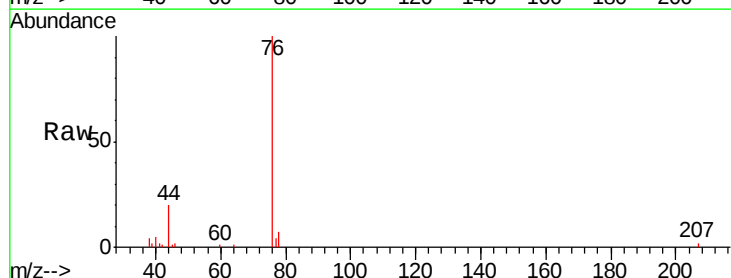
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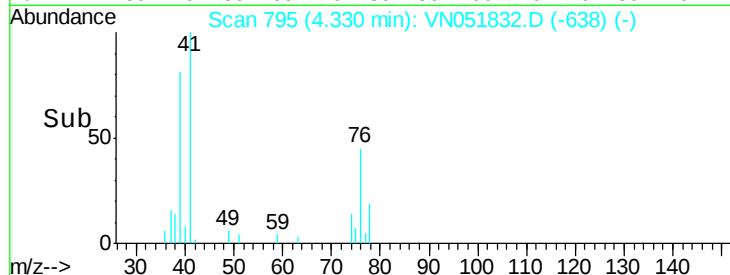
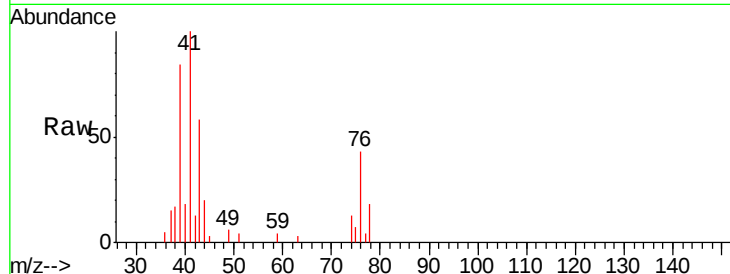
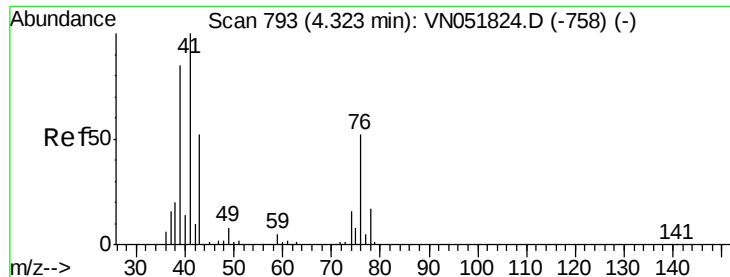
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#16
Carbon Disulfide
Concen: 2.49 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 76 Resp: 38286
Ion Ratio Lower Upper
76 100
78 7.0 6.7 10.1





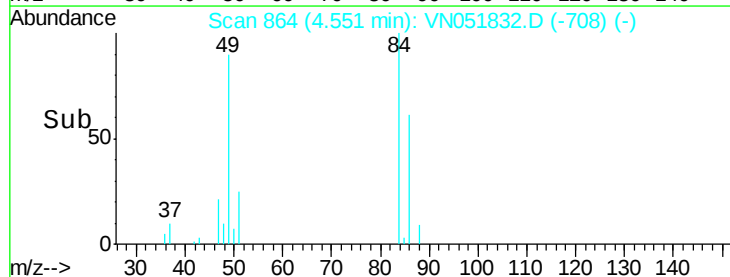
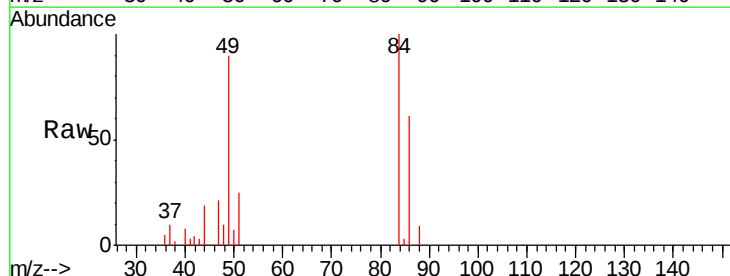
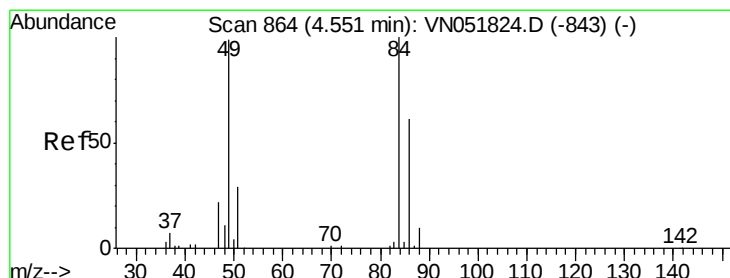
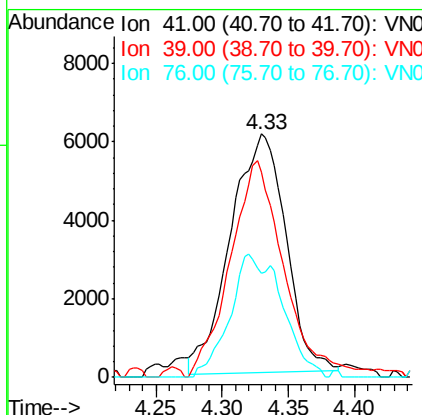
#17
 Allyl chloride
 Concen: 2.54 ug/l
 RT: 4.33 min Scan# 795
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	87.9	32.6	97.8
76	44.9	20.2	60.5

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

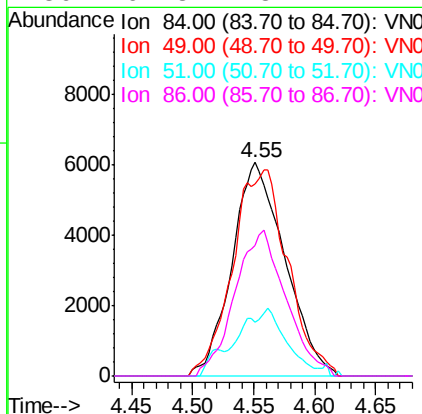
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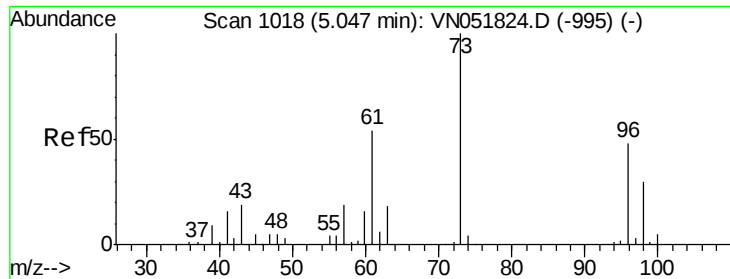
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#18
 Methylene Chloride
 Concen: 2.78 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	90.0	91.6	137.4#
51	25.3	29.8	44.6#
86	61.3	48.2	72.4





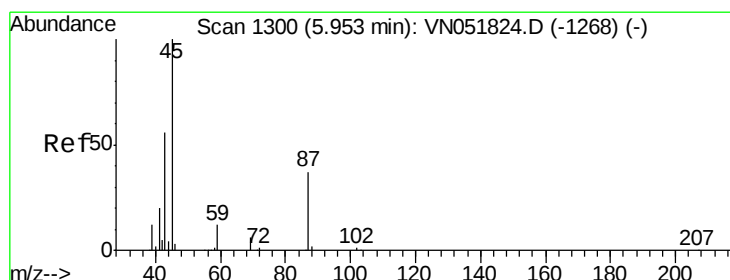
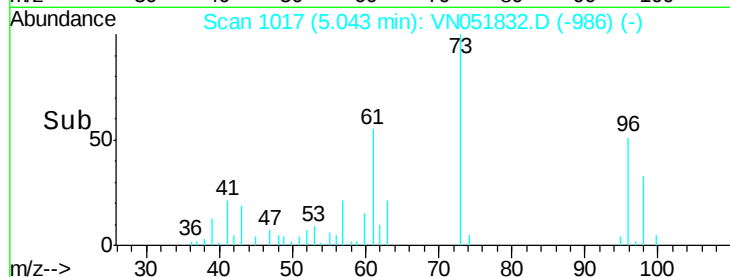
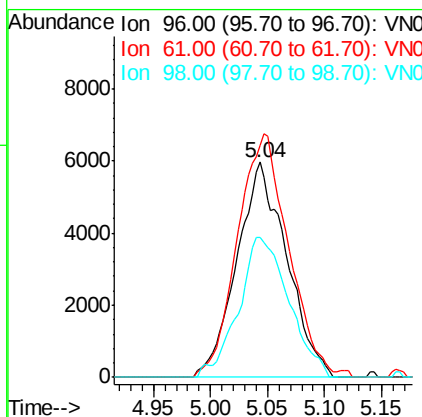
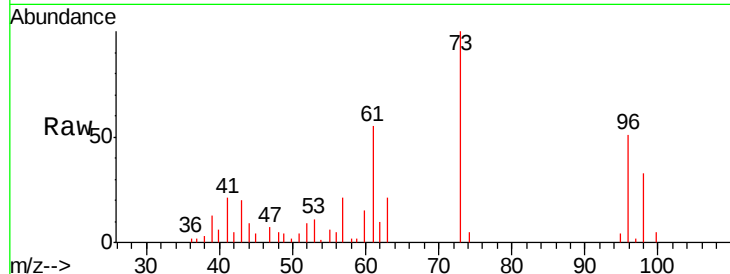
#19
trans-1,2-Dichloroethene
Concen: 2.71 ug/l m
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 96 Resp: 18087
Ion Ratio Lower Upper
96 100
61 108.1 112.3 168.5#
98 64.9 47.1 70.7

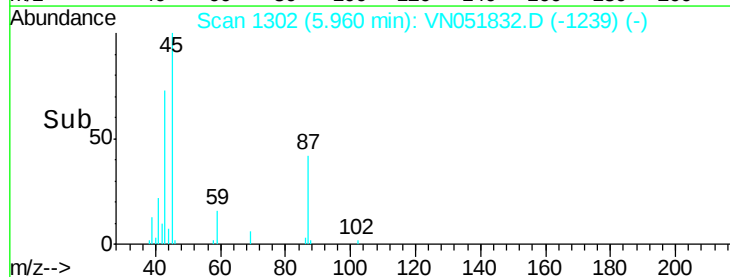
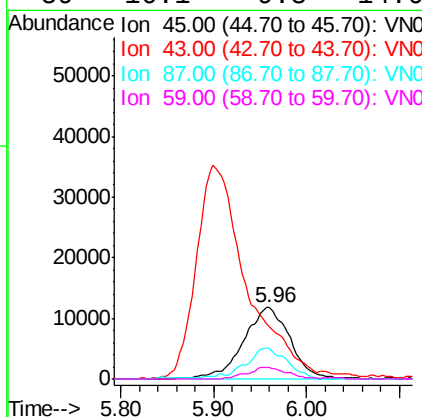
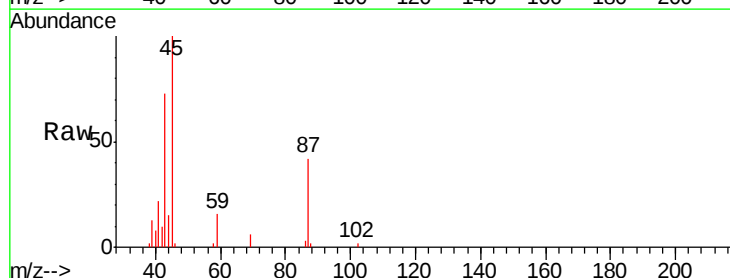
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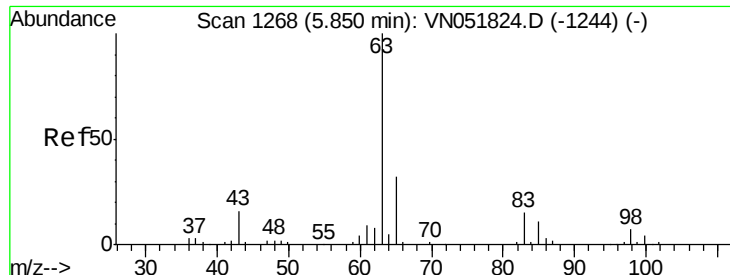
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#20
Diisopropyl ether
Concen: 2.64 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 45 Resp: 40885
Ion Ratio Lower Upper
45 100
43 66.9 62.1 93.1
87 43.0 19.9 29.9#
59 16.1 9.8 14.6#





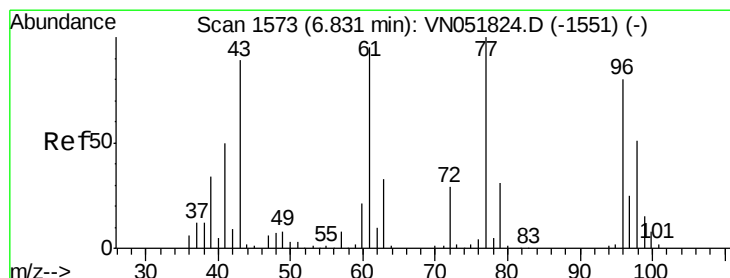
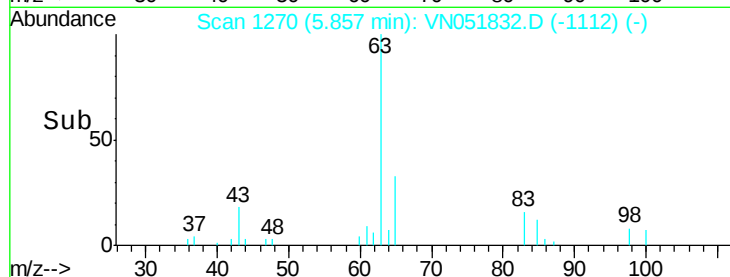
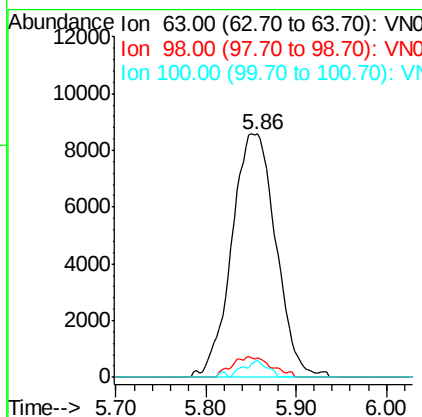
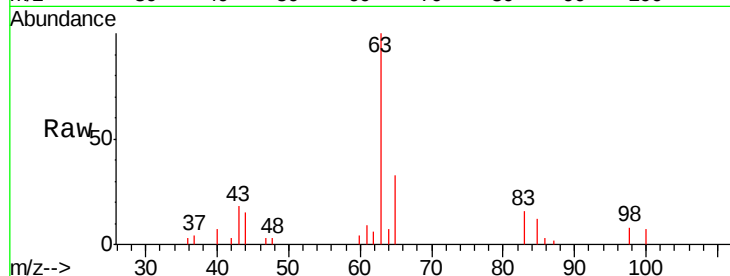
#21
 1,1-Dichloroethane
 Concen: 2.70 ug/l m
 RT: 5.86 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp Lower	Upper
63	100		
98	7.9	4.1	12.3
100	6.9	1.6	4.7#

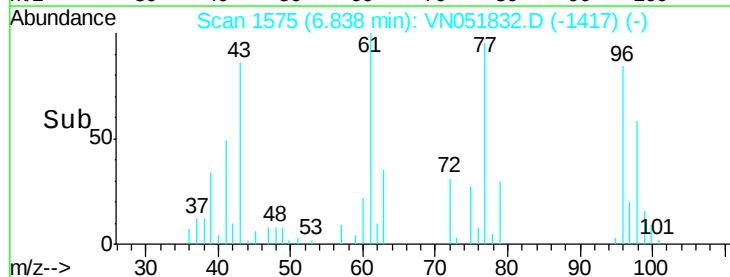
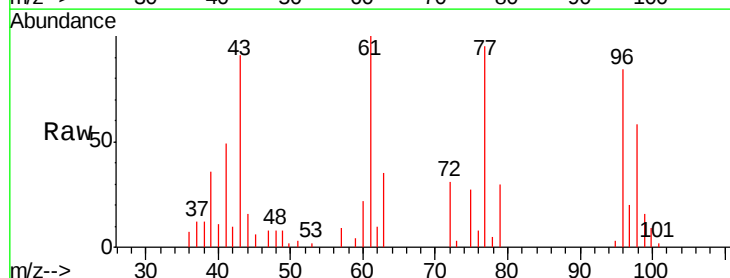
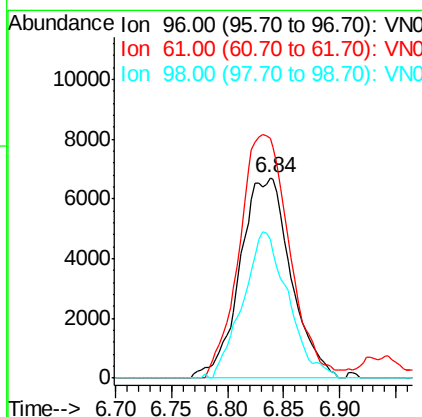
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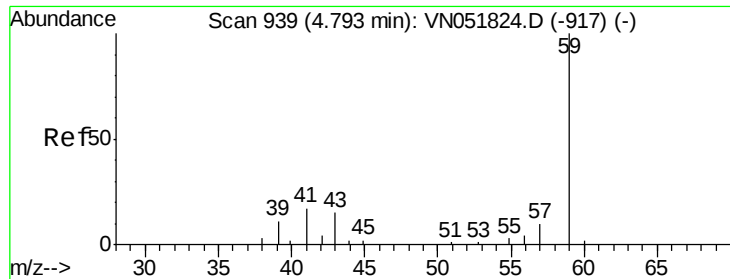
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#22
 cis-1,2-Dichloroethene
 Concen: 2.69 ug/l m
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	120.0	124.5	186.7#
98	63.1	51.9	77.9





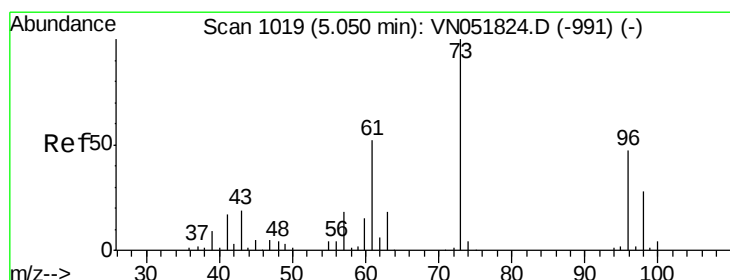
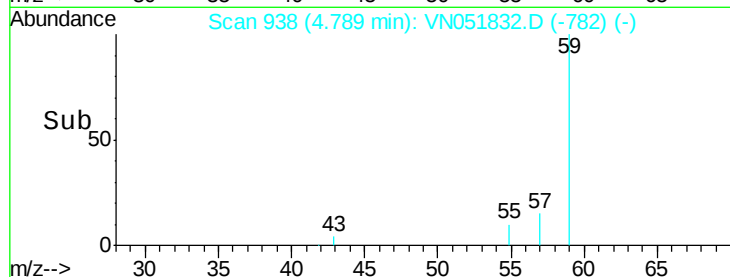
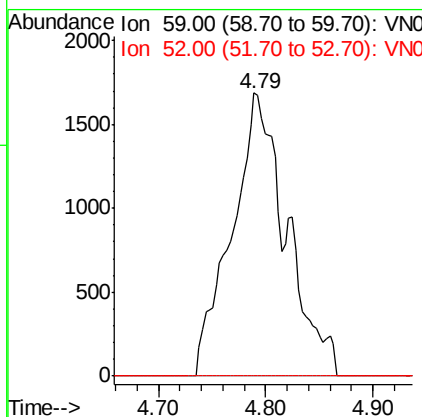
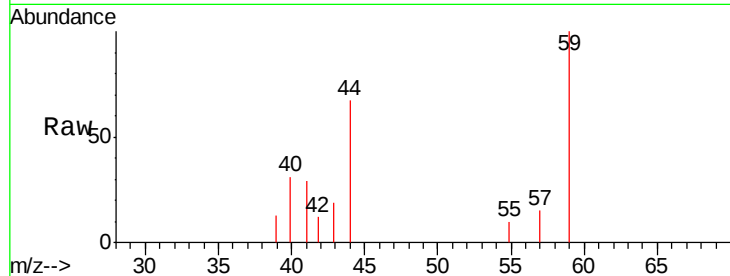
#23
 tert-Butyl Alcohol
 Concen: 13.95 ug/l m
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 59 Resp: 5972
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

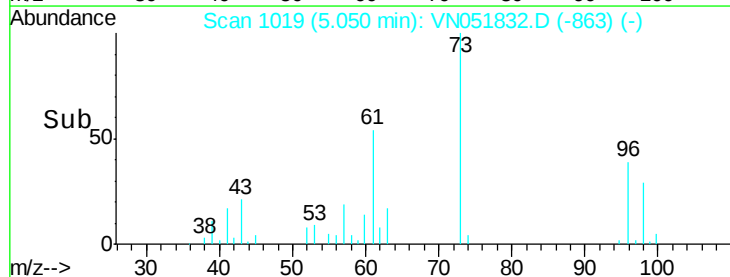
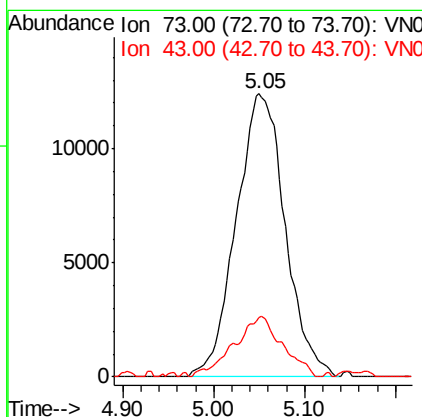
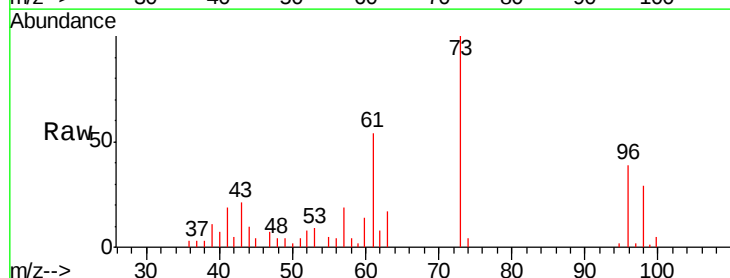
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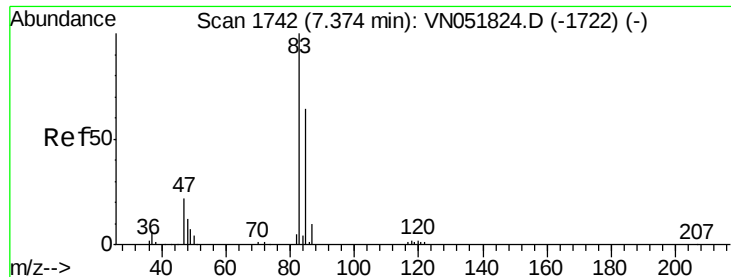
MMDadoda
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#24
 Methyl tert-Butyl Ether
 Concen: 2.74 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion: 73 Resp: 46259
 Ion Ratio Lower Upper
 73 100
 43 4.9 5.4 8.0#





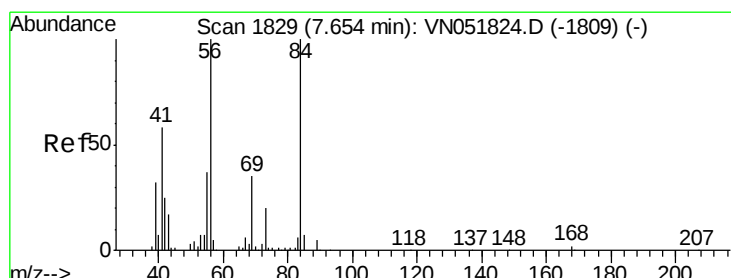
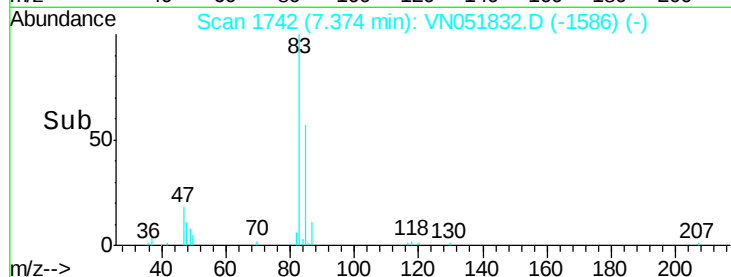
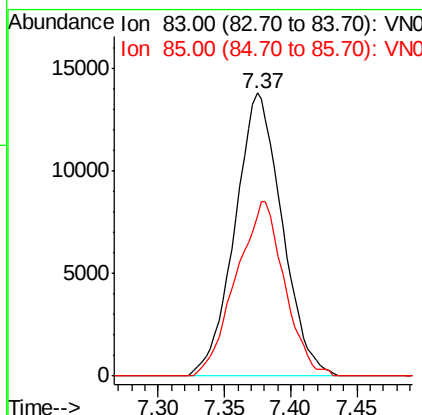
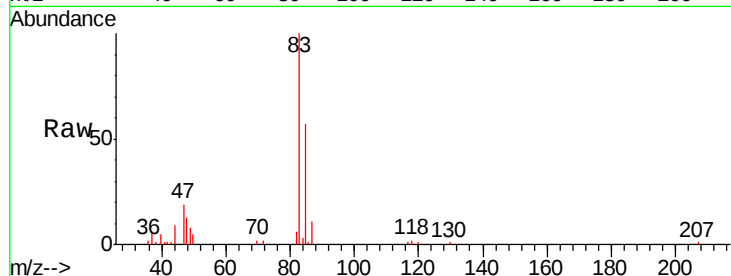
#25
Chloroform
Concen: 2.66 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 83 Resp: 34169
Ion Ratio Lower Upper
83 100
85 56.7 54.6 82.0

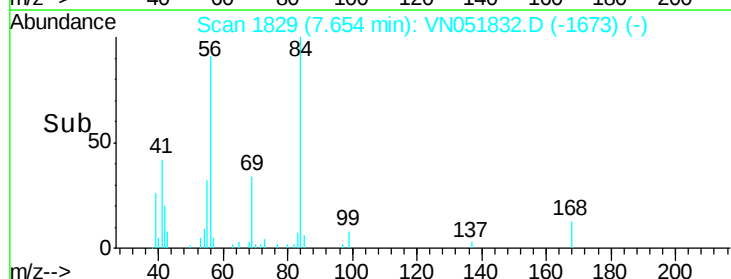
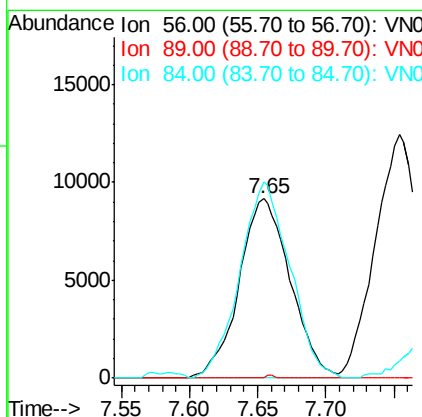
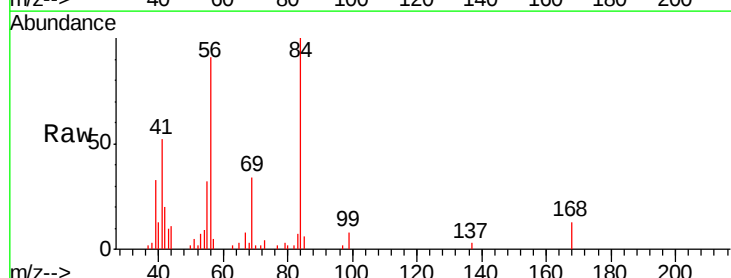
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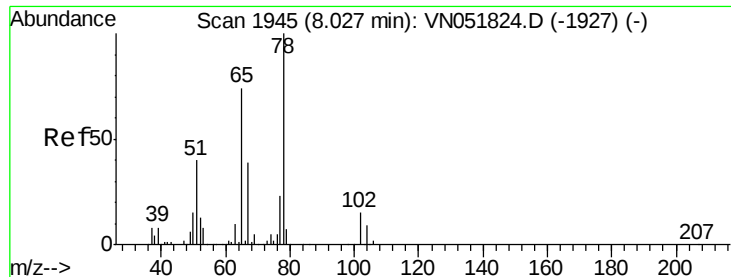
MMDadoda
10/15/2018 11:27:57 AM



#26
Cyclohexane
Concen: 2.61 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 56 Resp: 23913
Ion Ratio Lower Upper
56 100
89 0.3 1.5 2.3#
84 106.9 64.2 96.4#





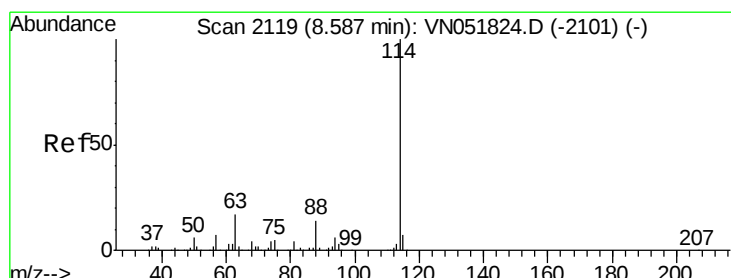
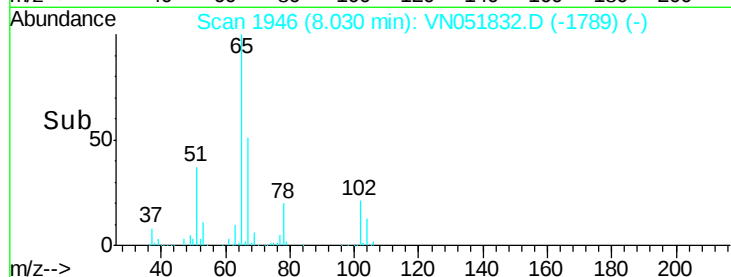
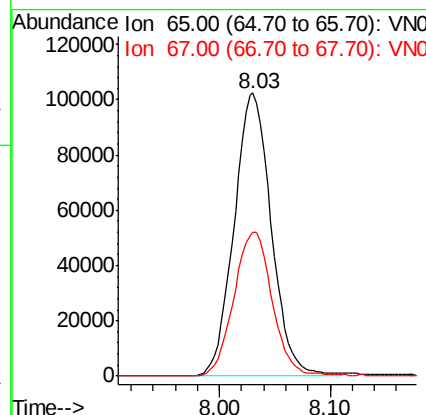
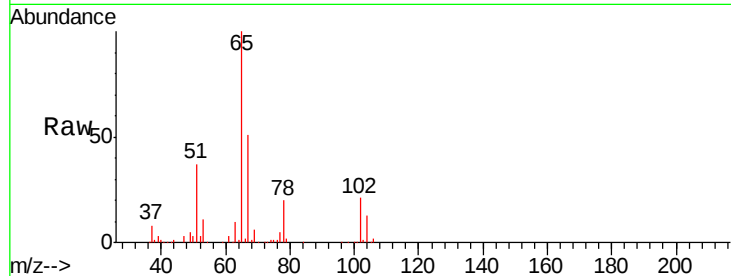
#27
 1,2-Dichloroethane-d4
 Concen: 2.61 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.4	41.8	62.8

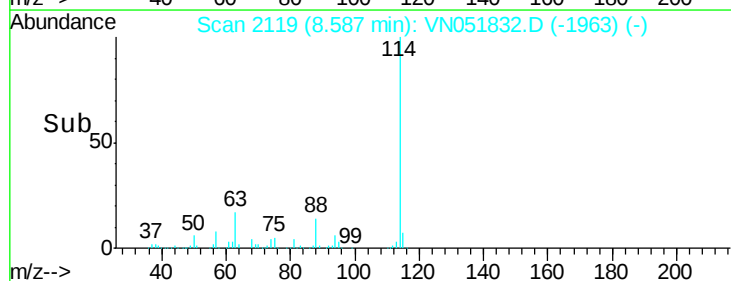
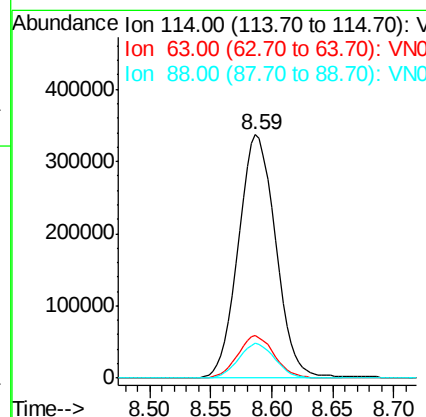
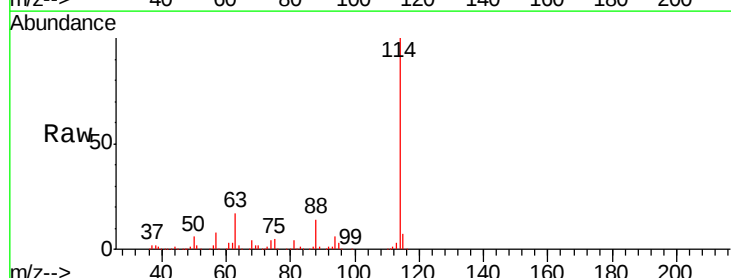
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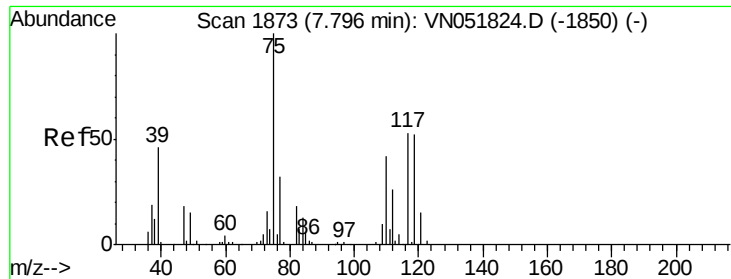
MMDadoda
 10/15/2018 11:27:57 AM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.0	16.2	24.2
88	14.0	12.2	18.4





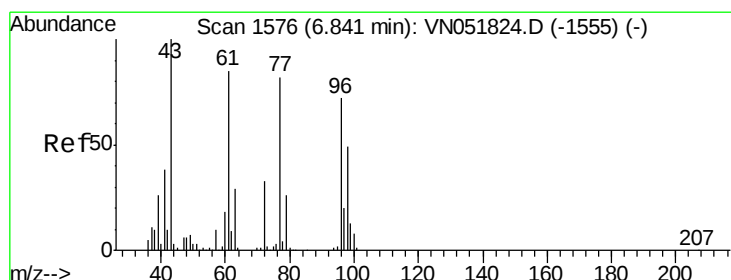
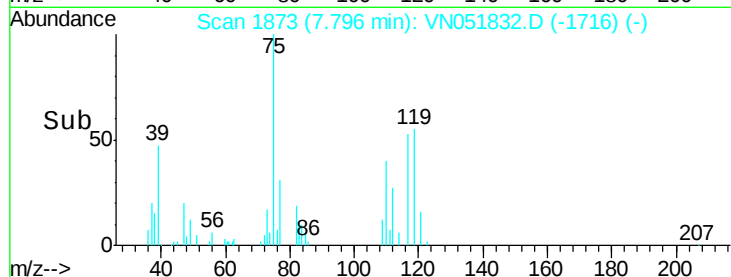
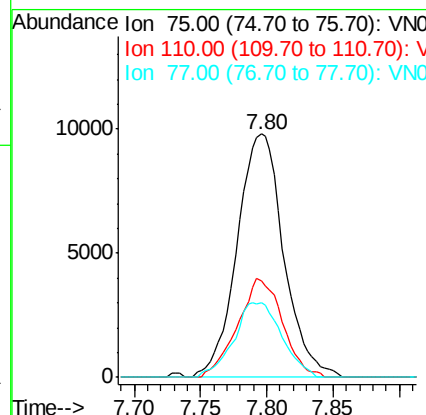
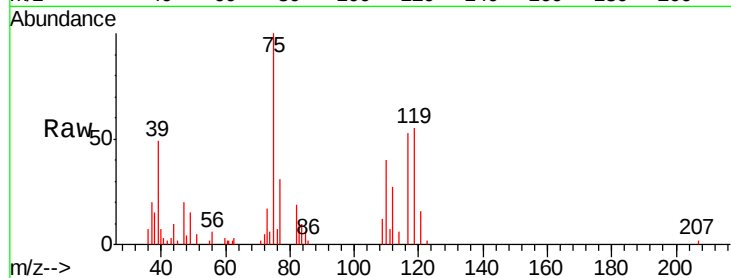
#29
 1,1-Dichloropropene
 Concen: 2.60 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	23958		
110	39.1	0.0	70.8	
77	31.6	0.0	61.6	

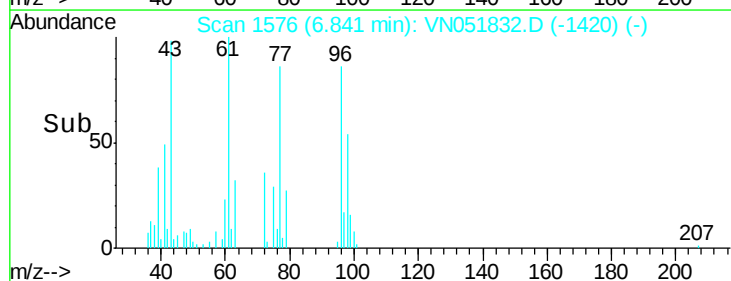
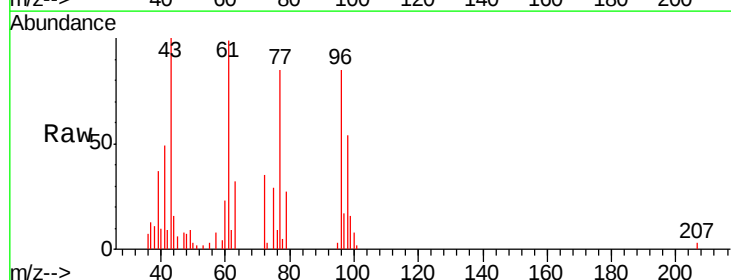
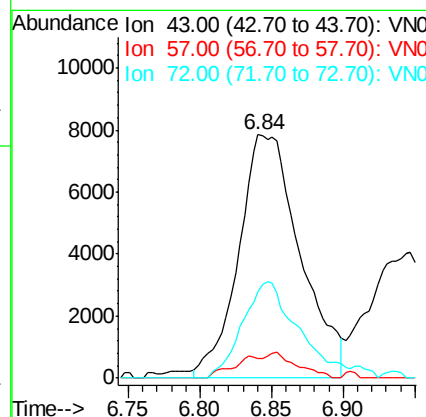
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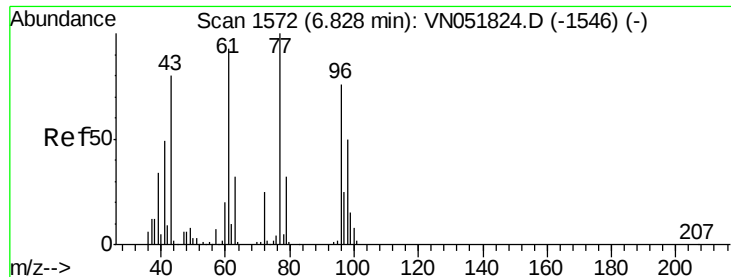
MMDadoda
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#30
 2-Butanone
 Concen: 12.20 ug/l m
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	23514		
57	5.0	4.5	6.7	
72	34.5	21.5	32.3	





#31

2,2-Dichloropropane

Concen: 2.39 ug/l m

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 77 Resp: 25974

Ion Ratio Lower Upper

77 100

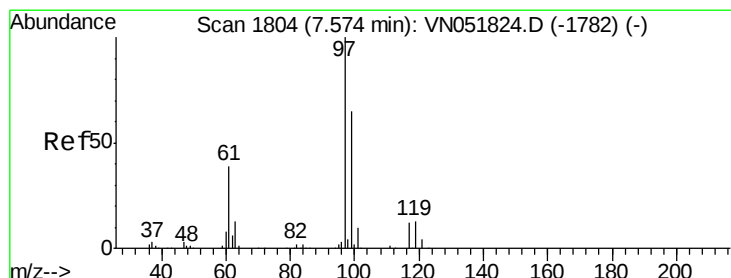
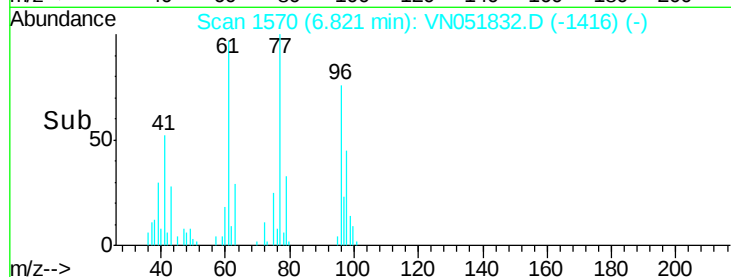
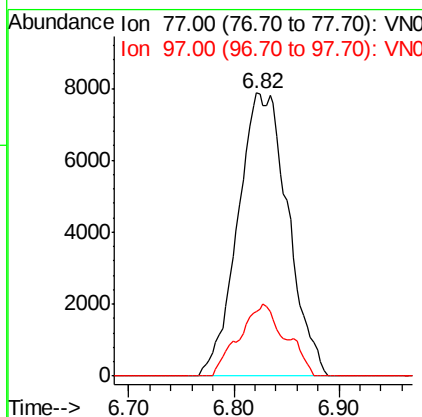
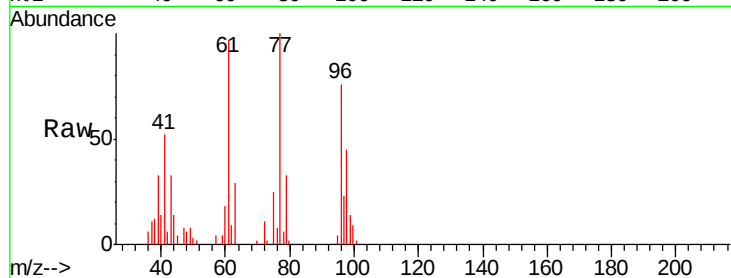
97 9.7 12.0 18.0#

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#32

1,1,1-Trichloroethane

Concen: 2.64 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

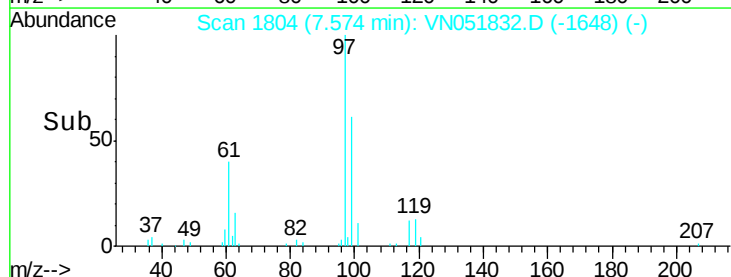
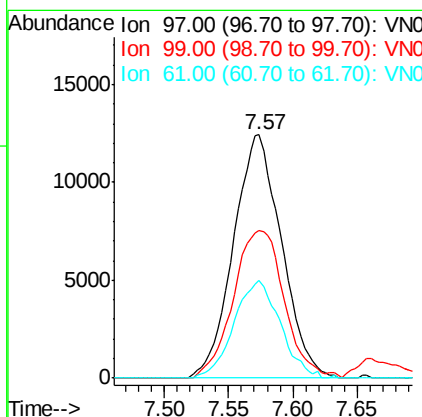
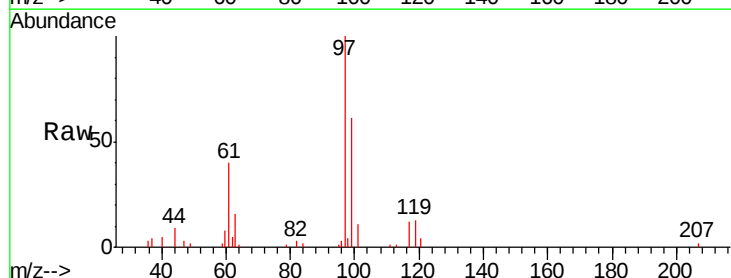
Tgt Ion: 97 Resp: 32292

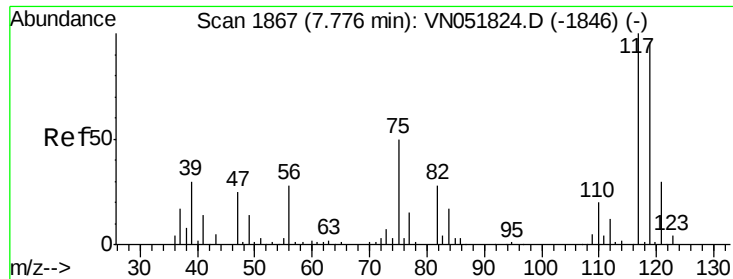
Ion Ratio Lower Upper

97 100

99 63.8 51.6 77.4

61 38.2 37.4 56.0





#33

Carbon Tetrachloride

Concen: 2.42 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

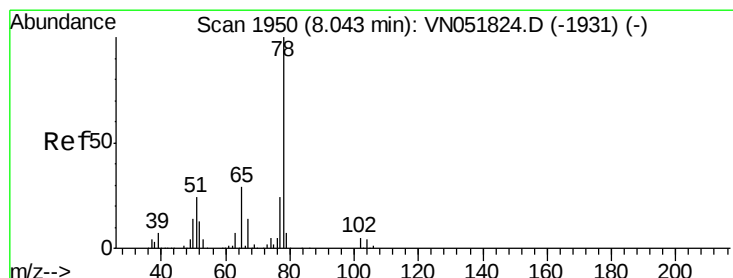
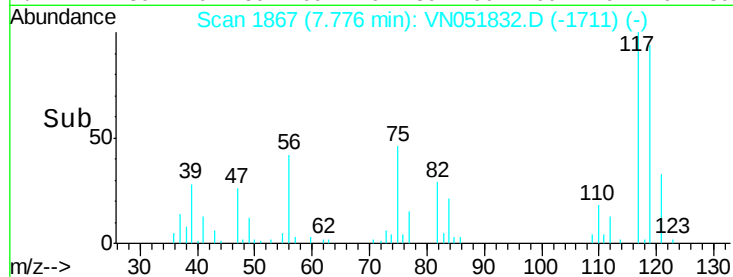
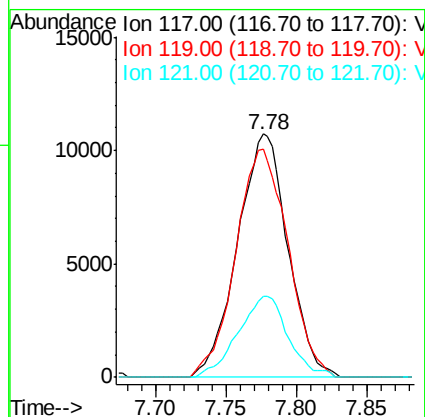
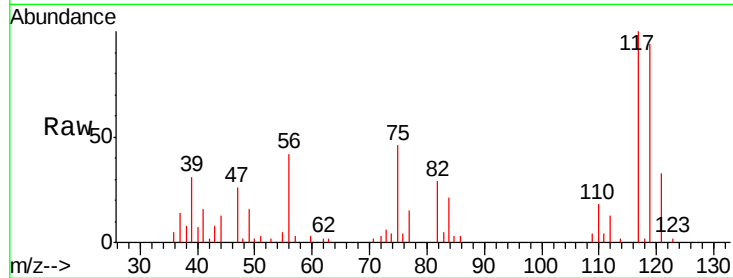
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.6	85.1	127.7
121	33.0	24.2	36.2

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#34

Benzene

Concen: 2.61 ug/l

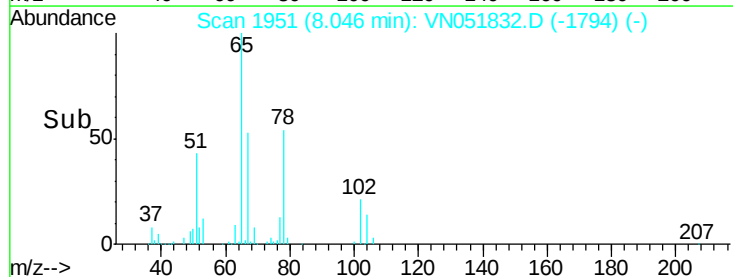
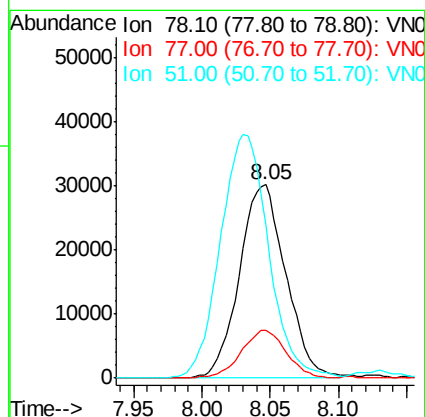
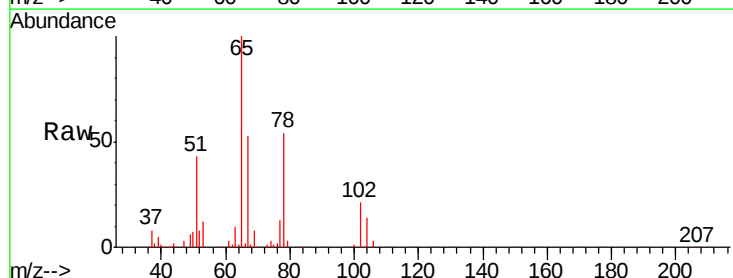
RT: 8.05 min Scan# 1951

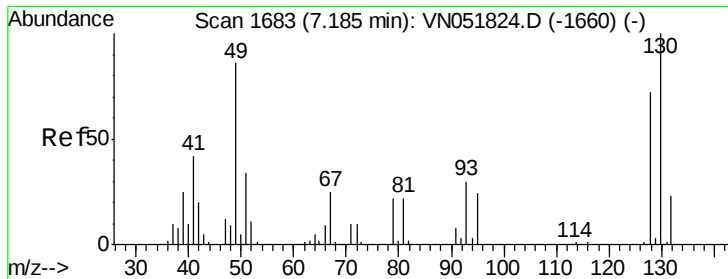
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2
51	77.8	46.2	69.4





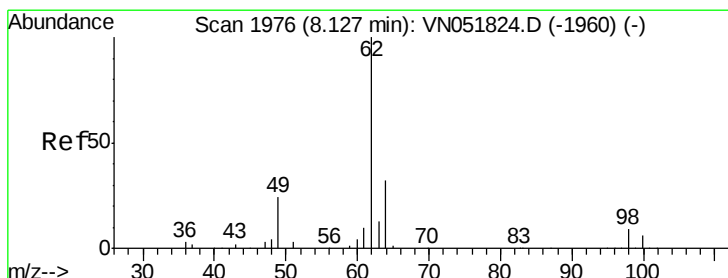
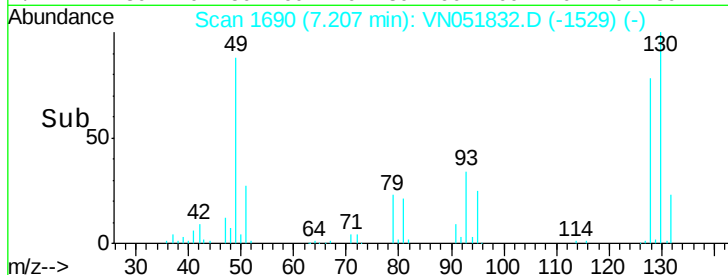
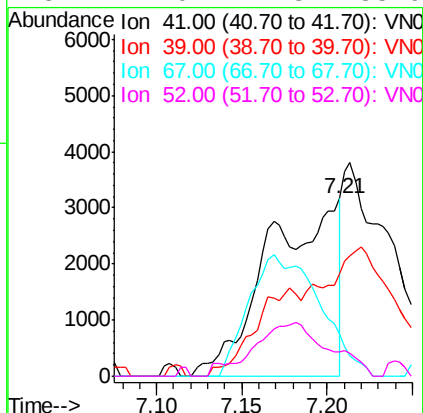
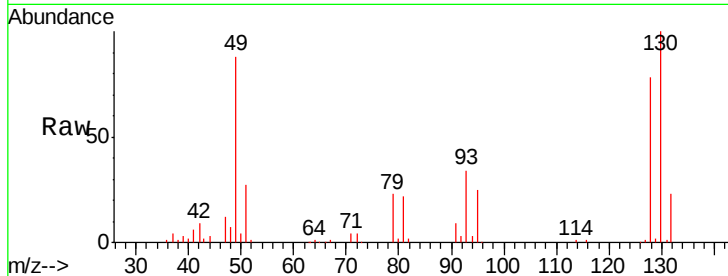
#35
Methacrylonitrile
Concen: 3.56 ug/l m
RT: 7.21 min Scan# 1690
Delta R.T. 0.02 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 41 Resp: 9005
Ion Ratio Lower Upper
41 100
39 57.5 22.6 67.7
67 24.1 28.9 86.8#
52 14.0 11.3 33.9

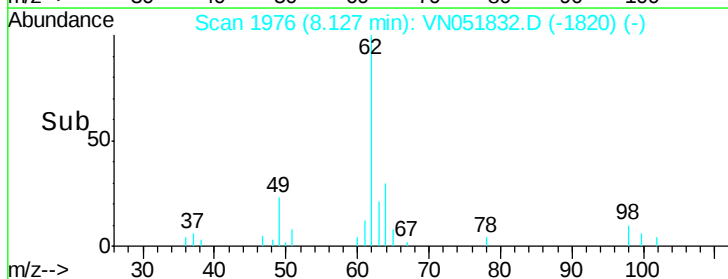
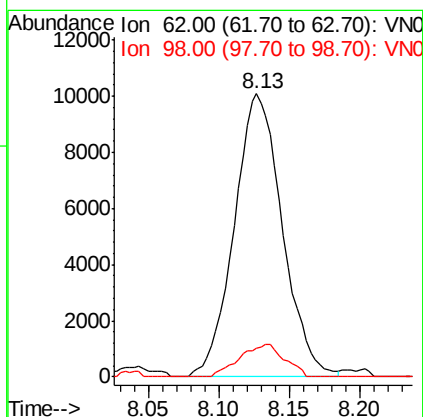
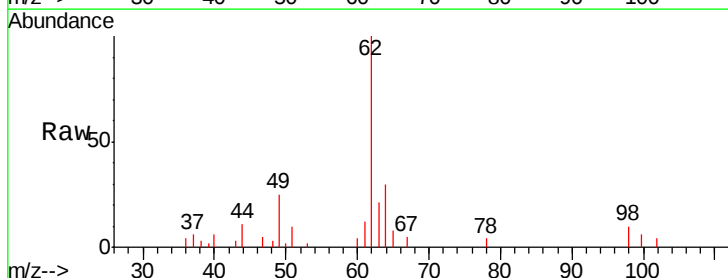
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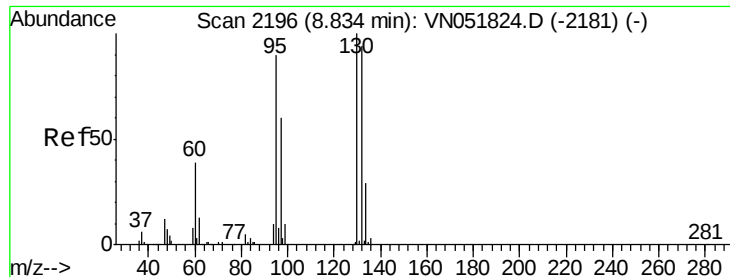
MMDadoda
10/15/2018 11:27:57 AM



#36
1,2-Dichloroethane
Concen: 2.75 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 62 Resp: 24062
Ion Ratio Lower Upper
62 100
98 10.7 6.9 10.3#





#37

Trichloroethene

Concen: 2.54 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:130 Resp: 21474

Ion Ratio Lower Upper

130 100

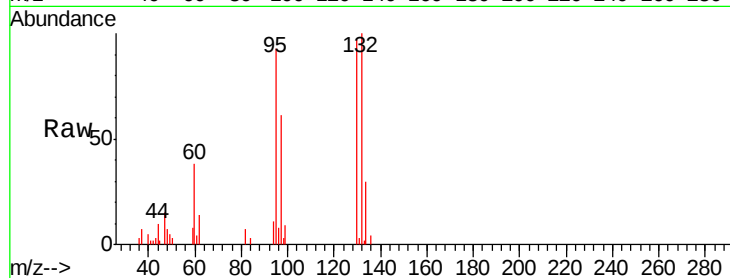
95 94.3 76.4 114.6

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Abundance Ion 129.90 (129.60 to 130.60): VN051832.D (-2041) (-)

Ion 94.90 (94.60 to 95.60): VN051832.D (-2041) (-)

8.84

10000

8000

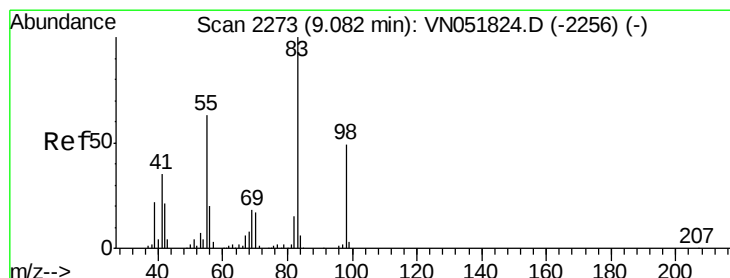
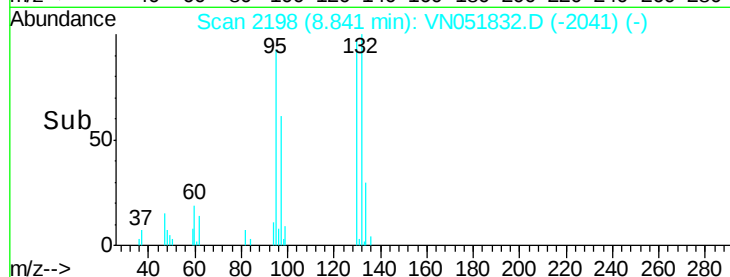
6000

4000

2000

0

Time-->



#38

Methylcyclohexane

Concen: 2.53 ug/l

RT: 9.09 min Scan# 2274

Delta R.T. 0.01 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

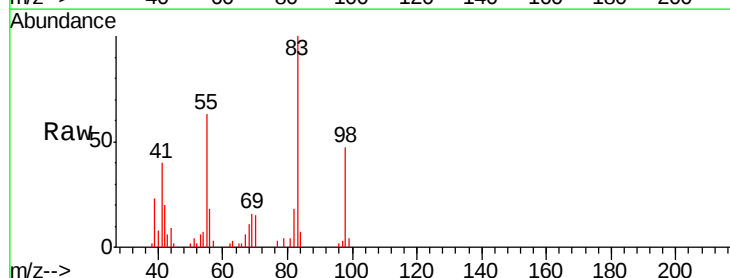
Tgt Ion: 83 Resp: 29876

Ion Ratio Lower Upper

83 100

55 63.8 43.0 129.2

98 51.0 21.3 63.7



Abundance Ion 83.00 (82.70 to 83.70): VN051832.D (-2116) (-)

Ion 55.00 (54.70 to 55.70): VN051832.D (-2116) (-)

Ion 98.00 (97.70 to 98.70): VN051832.D (-2116) (-)

9.09

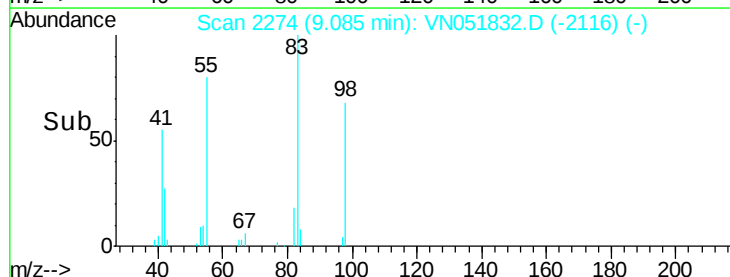
15000

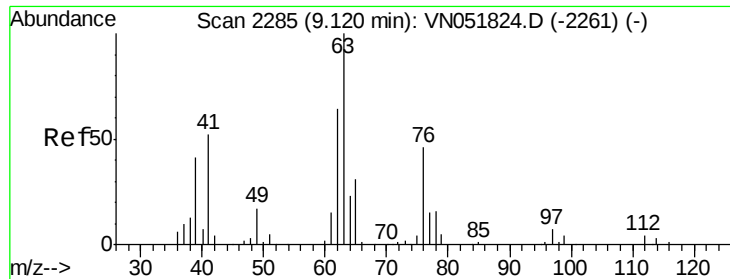
10000

5000

0

Time-->





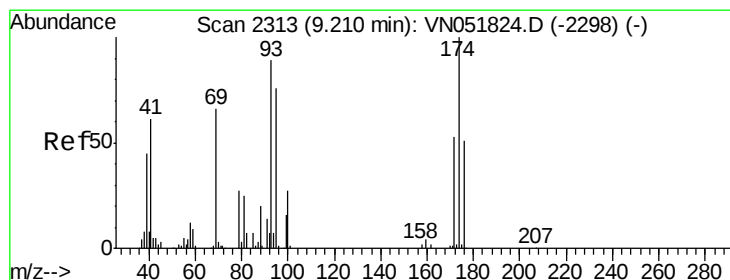
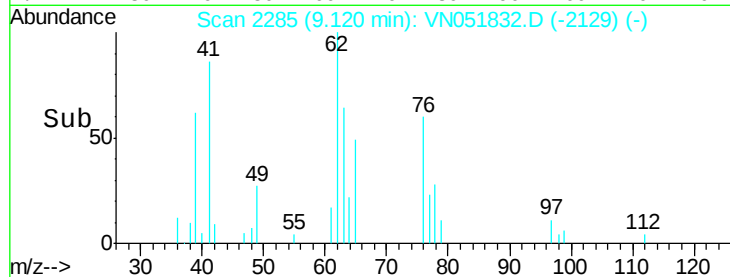
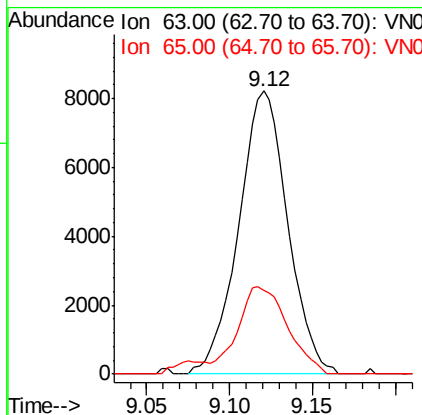
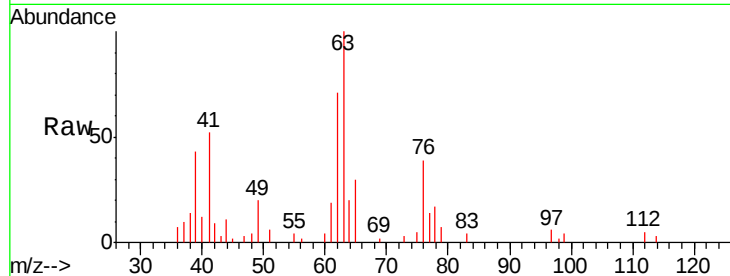
#39
 1,2-Dichloropropane
 Concen: 2.63 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 63 Resp: 16922
 Ion Ratio Lower Upper
 63 100
 65 29.5 23.2 34.8

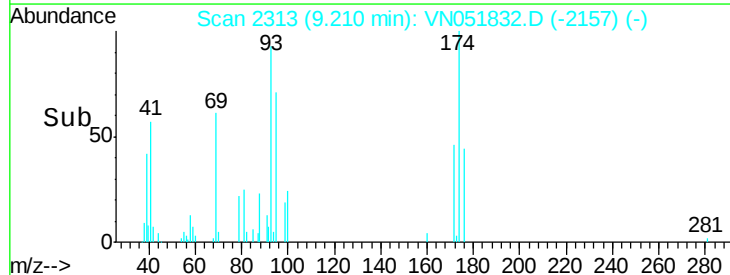
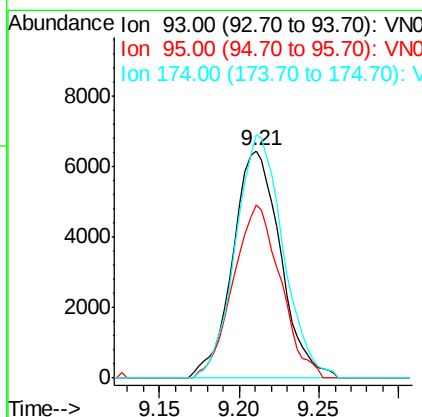
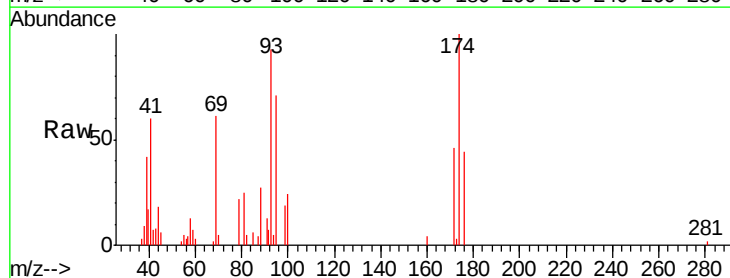
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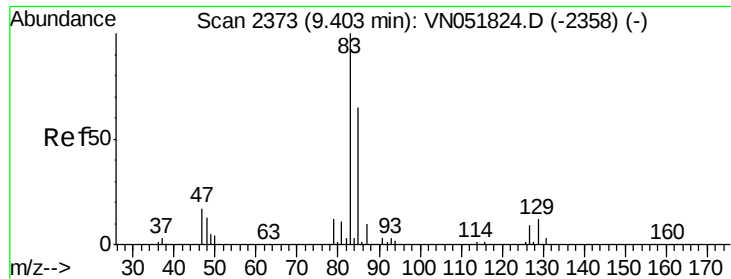
MMDadoda
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#40
 Dibromomethane
 Concen: 2.76 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion: 93 Resp: 13142
 Ion Ratio Lower Upper
 93 100
 95 75.5 0.0 162.0
 174 106.8 0.0 214.0





#41

Bromodichloromethane

Concen: 2.45 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

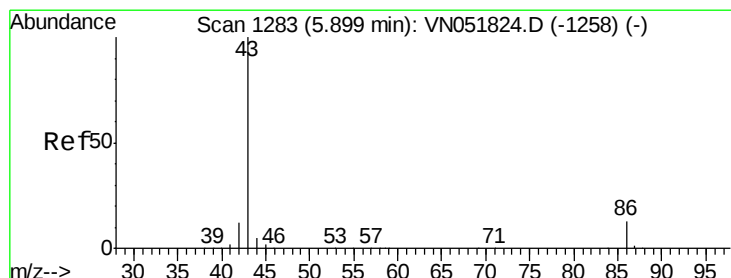
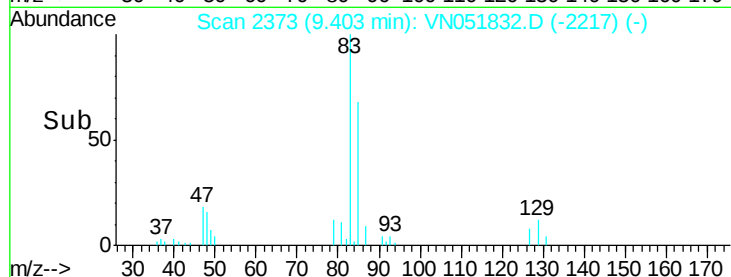
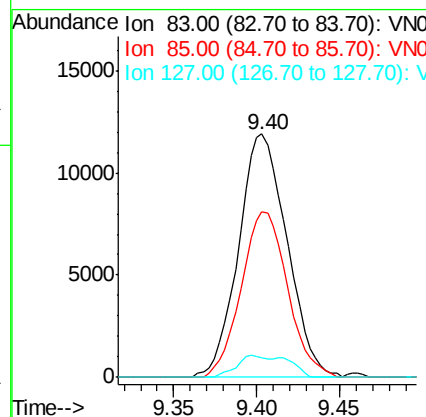
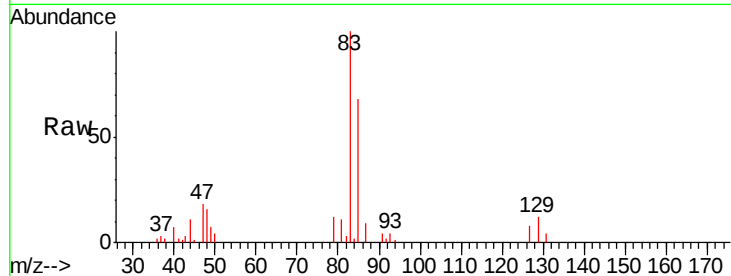
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	83	Resp:	24123
Ion Ratio	Lower	Upper	
83	100		
85	68.1	55.7	83.5
127	8.0	8.2	12.4#

Manual Integrations
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#42

Vinyl Acetate

Concen: 12.27 ug/l

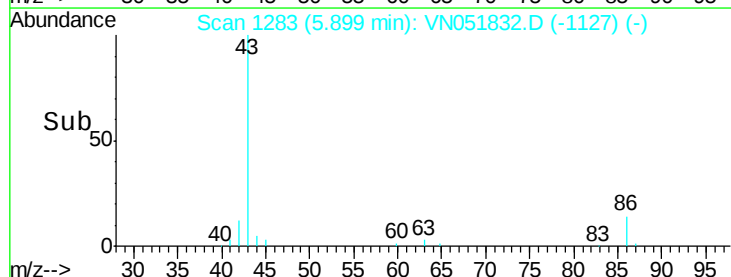
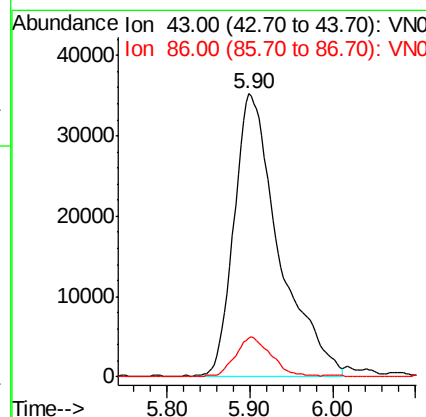
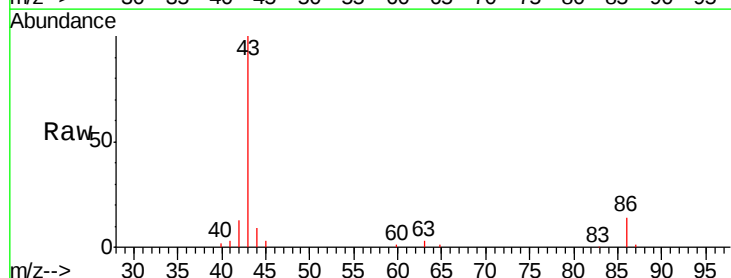
RT: 5.90 min Scan# 1283

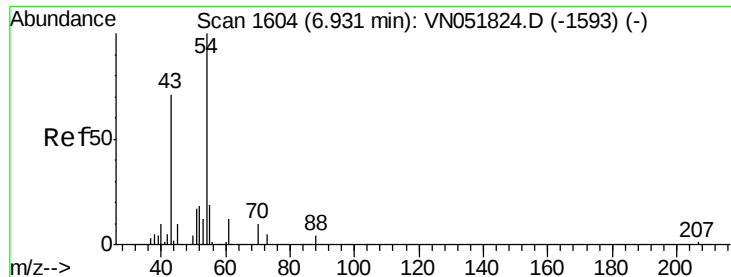
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	43	Resp:	133143
Ion Ratio	Lower	Upper	
43	100		
86	11.1	6.5	9.7#





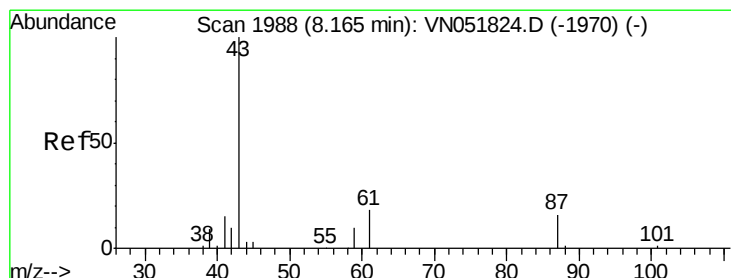
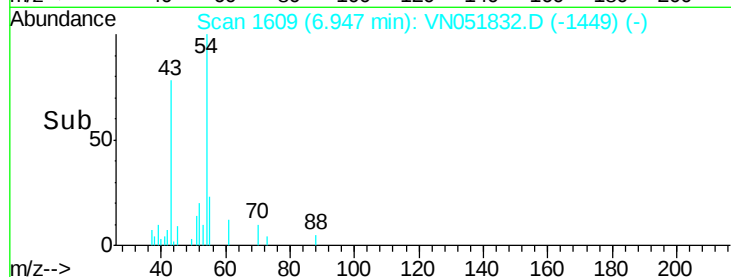
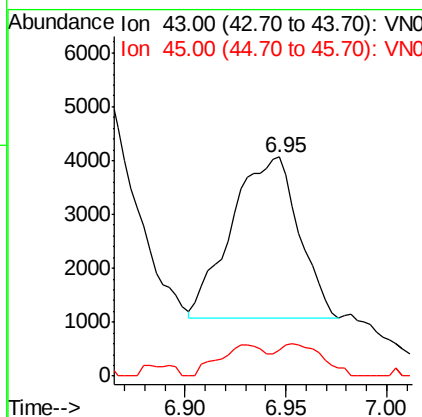
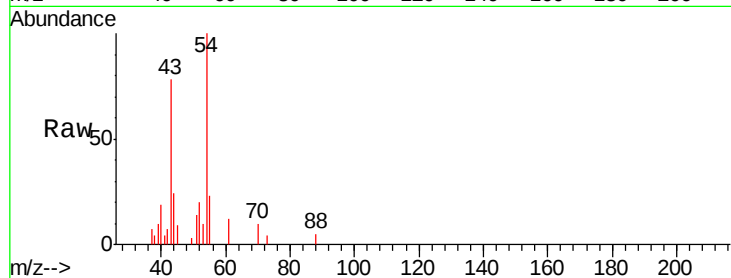
#43
Ethyl Acetate
Concen: 1.66 ug/l
RT: 6.95 min Scan# 1609
Delta R.T. 0.01 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 43 Resp: 6967
Ion Ratio Lower Upper
43 100
45 12.6 11.0 16.6

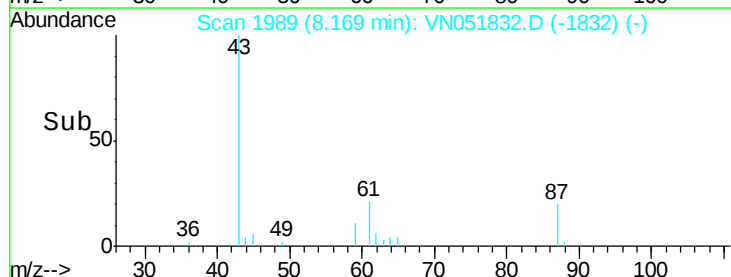
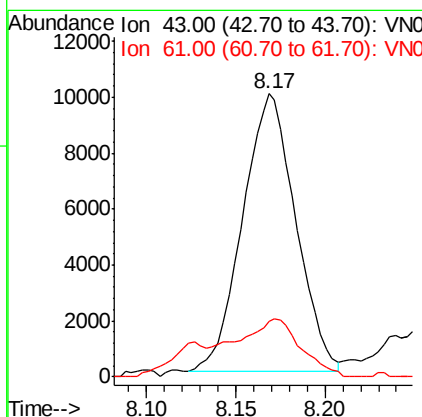
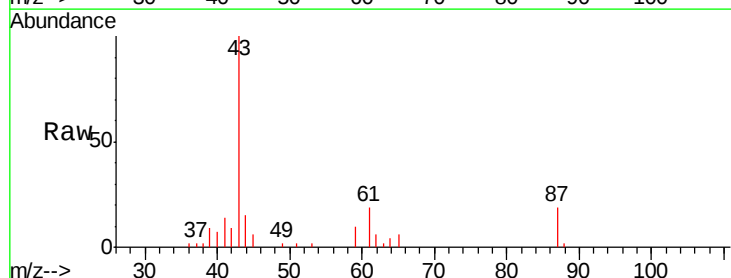
Manual Integrations
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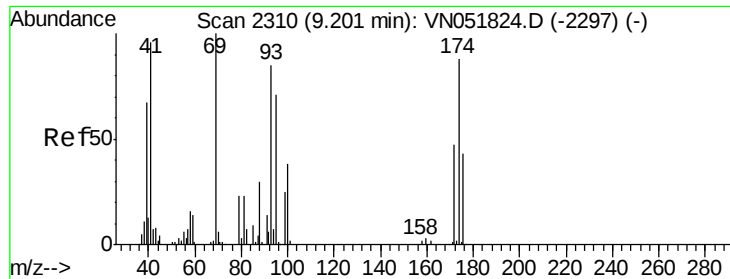
MMDadoda
10/15/2018 11:27:57 AM



#44
Isopropyl Acetate
Concen: 2.47 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 43 Resp: 20683
Ion Ratio Lower Upper
43 100
61 14.9 15.9 23.9#





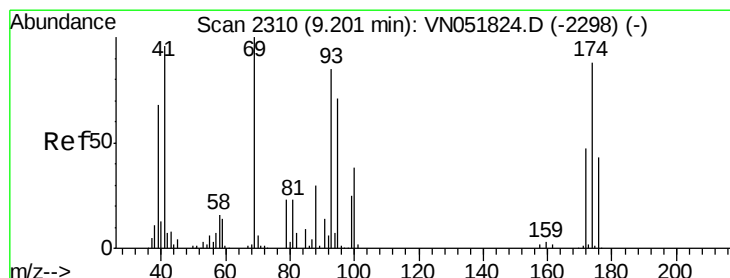
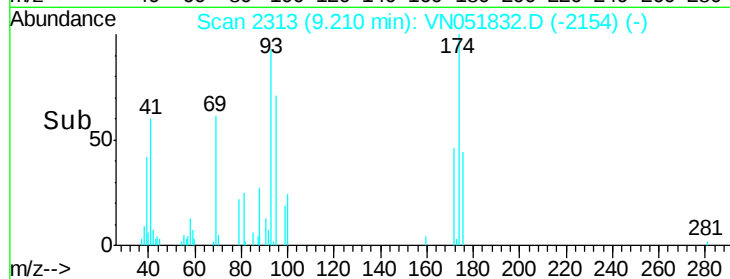
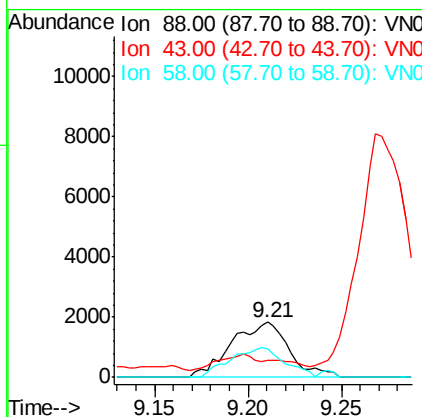
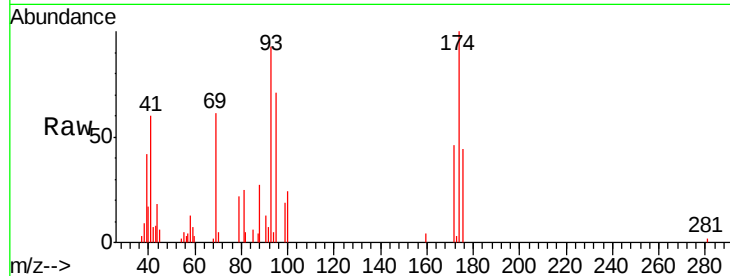
#45
 1,4-Dioxane
 Concen: 58.41 ug/l m
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.01 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
88	100		
43	19.0	26.2	39.2#
58	0.0	65.6	98.4#

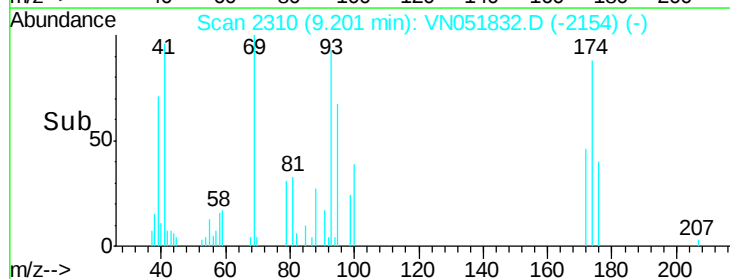
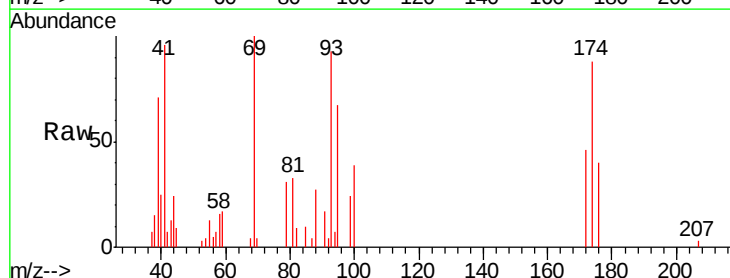
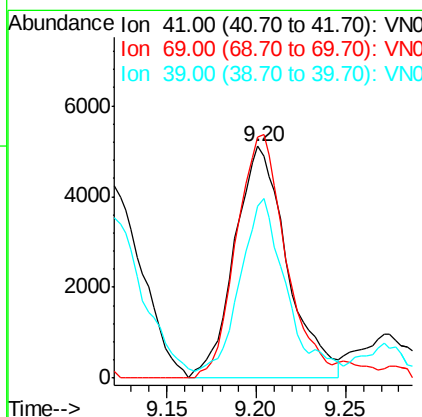
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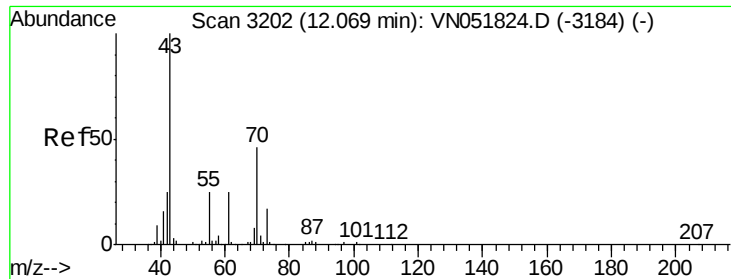
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 10/15/2018 11:27:57 AM



#46
 Methyl methacrylate
 Concen: 2.73 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
41	100		
69	104.2	40.7	122.1
39	70.3	27.3	81.9





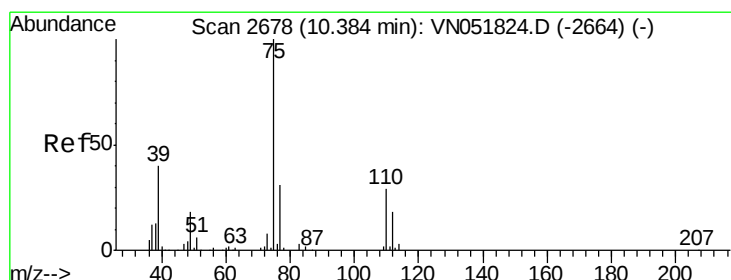
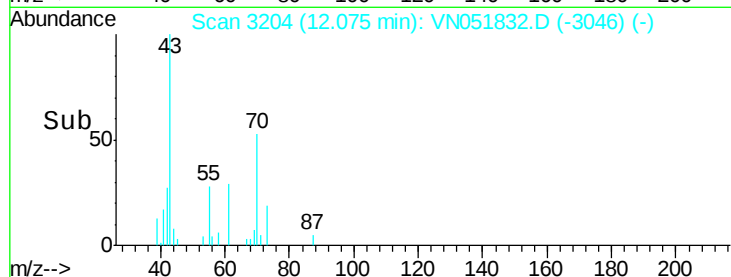
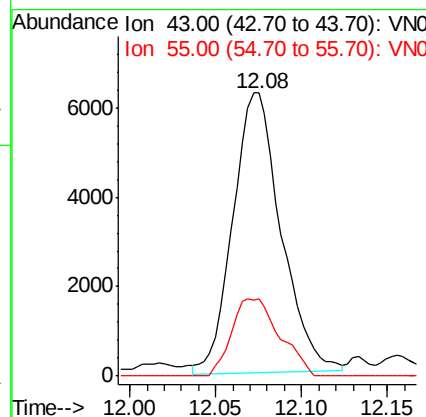
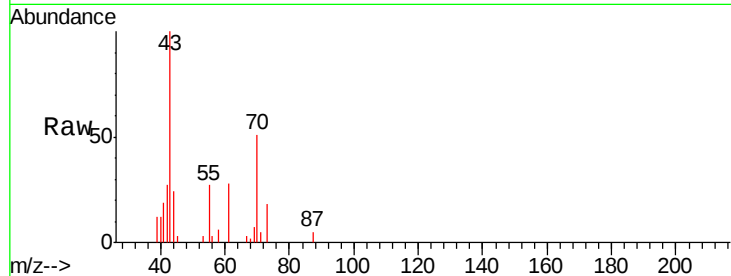
#47
n-amy1 Acetate
Concen: 1.74 ug/l
RT: 12.08 min Scan# 3204
Delta R.T. 0.01 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 43 Resp: 12173
Ion Ratio Lower Upper
43 100
55 13.7 12.2 18.4

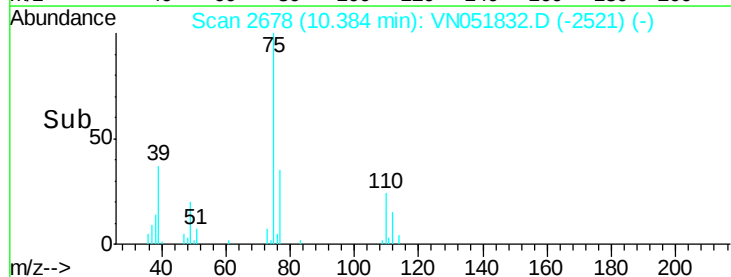
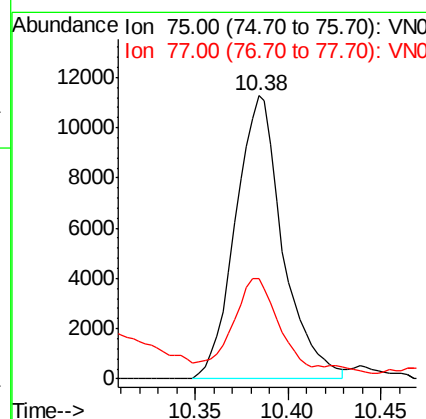
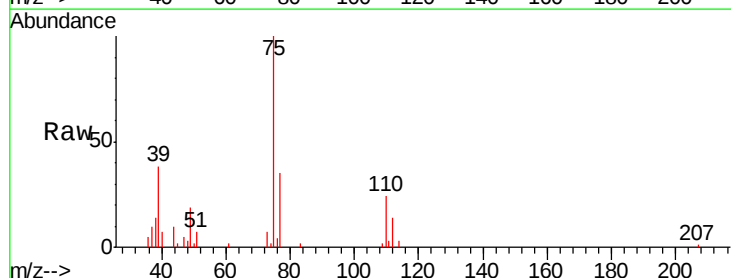
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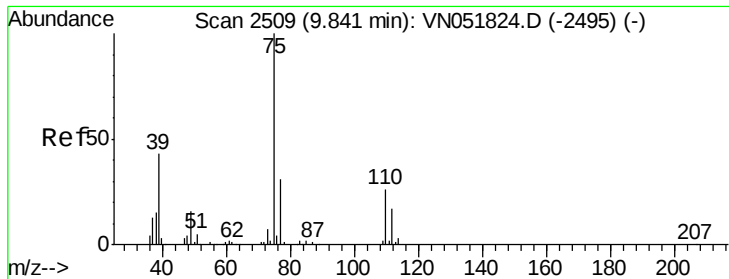
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#48
t-1,3-Dichloropropene
Concen: 2.08 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 75 Resp: 19950
Ion Ratio Lower Upper
75 100
77 31.1 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 2.26 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

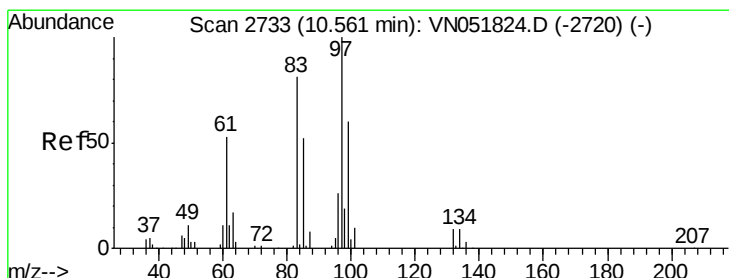
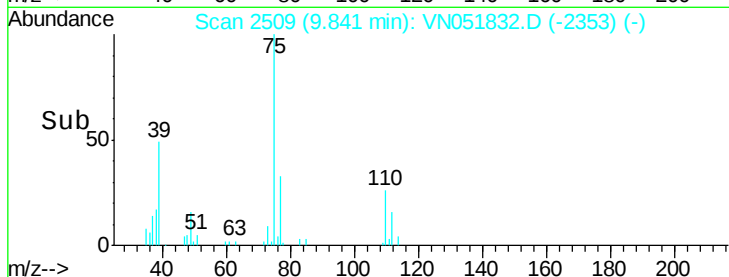
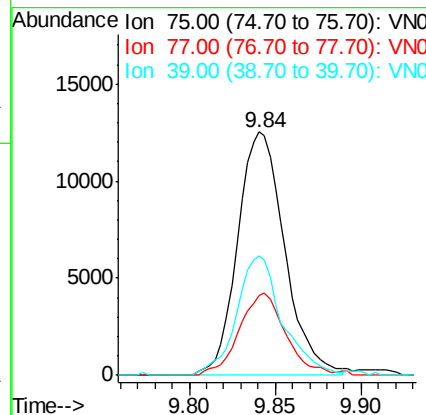
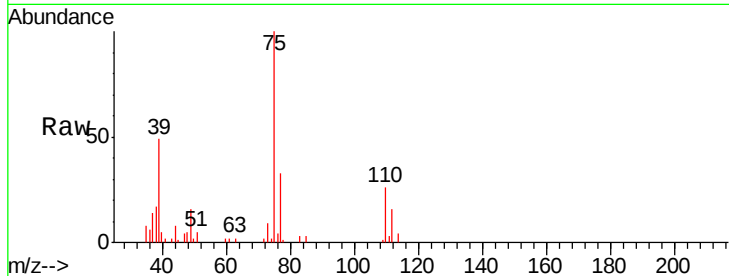
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	75	Resp:	23889
Ion	Ratio	Lower	Upper
75	100		
77	32.8	23.2	34.8
39	49.1	34.6	52.0

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#50

1,1,2-Trichloroethane

Concen: 2.46 ug/l

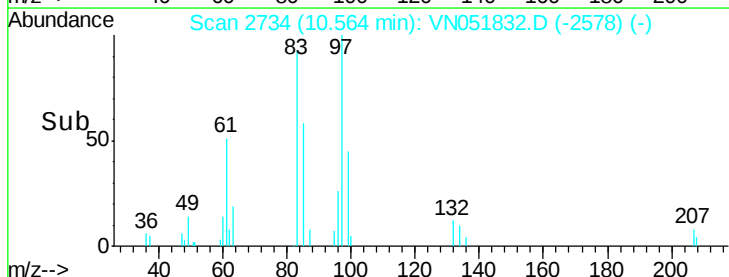
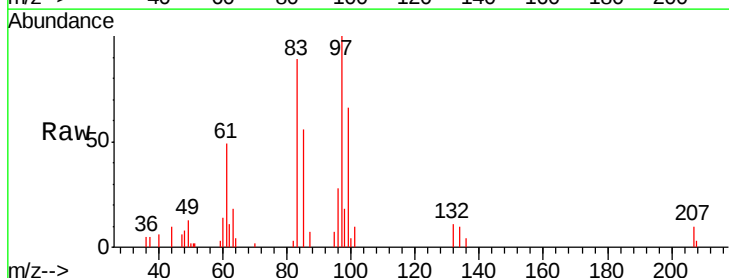
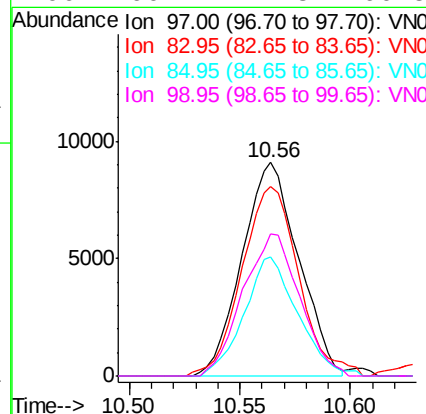
RT: 10.56 min Scan# 2734

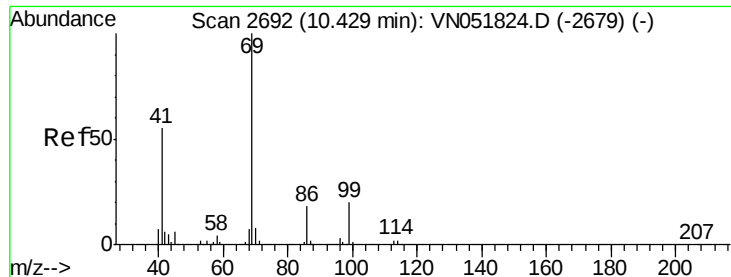
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	97	Resp:	16184
Ion	Ratio	Lower	Upper
97	100		
83	87.2	68.2	102.4
85	56.0	42.5	63.7
99	66.4	44.3	66.5





#51

Ethyl methacrylate

Concen: 2.24 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

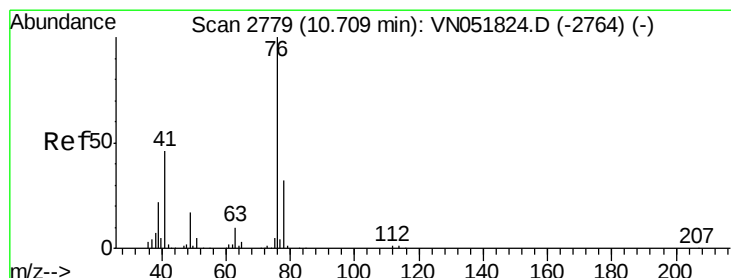
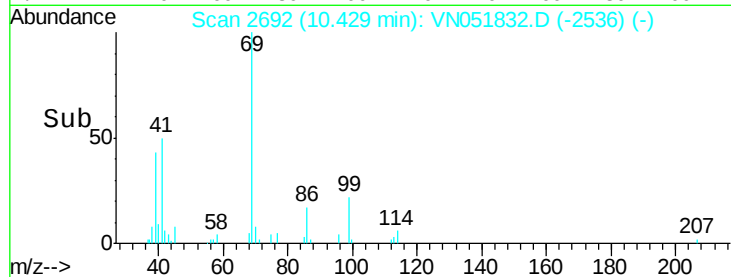
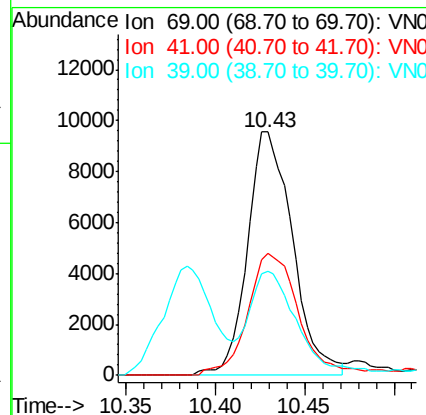
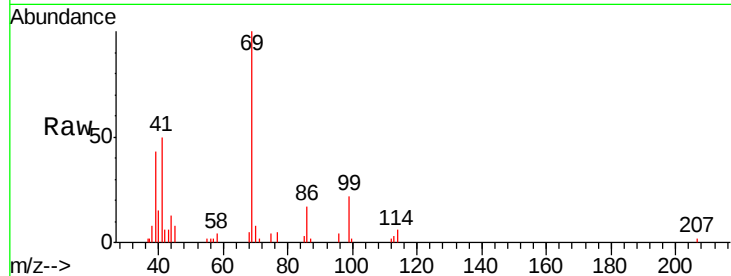
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	69	Resp:	16925
Ion	Ratio	Lower	Upper
69	100		
41	49.9	34.4	103.1
39	38.9	16.3	48.8

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#52

1,3-Dichloropropane

Concen: 2.49 ug/l

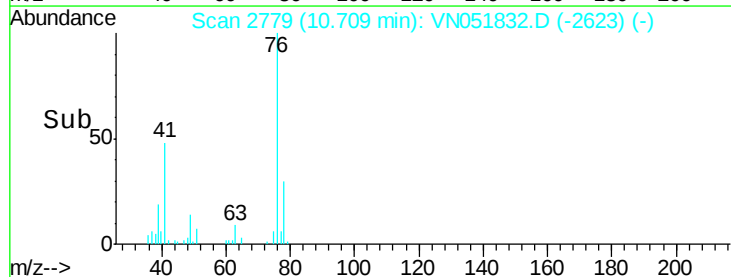
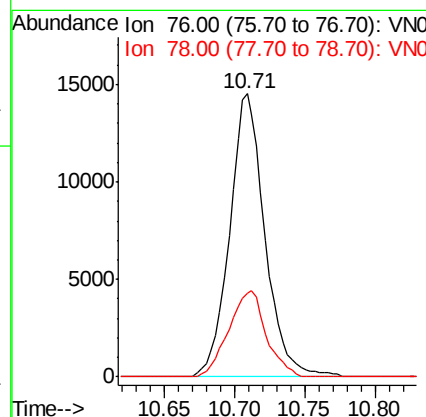
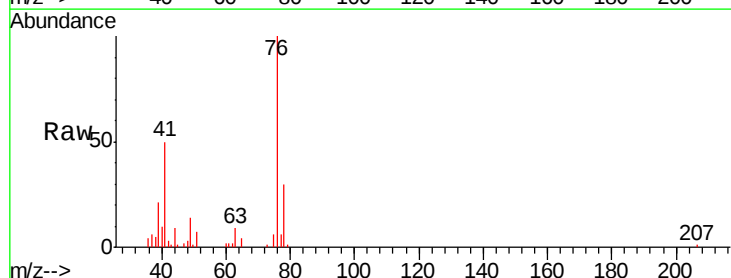
RT: 10.71 min Scan# 2779

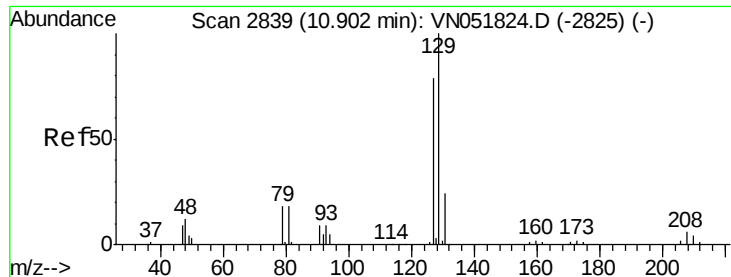
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	76	Resp:	25359
Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	67.6





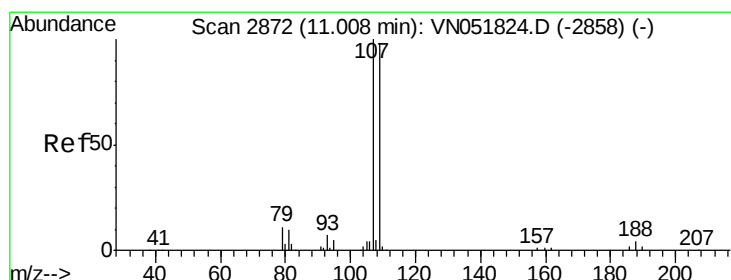
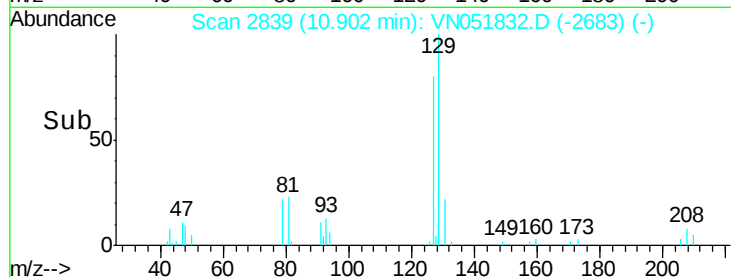
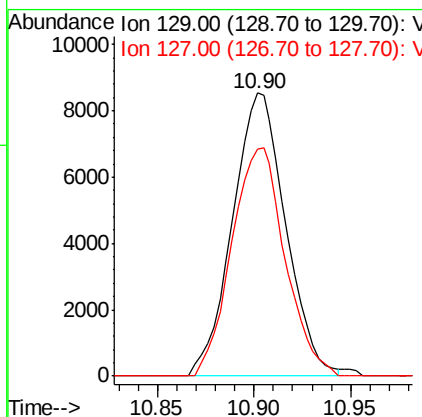
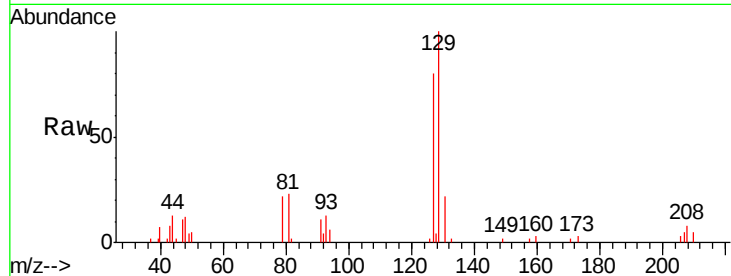
#53
 Dibromochloromethane
 Concen: 2.00 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion:129 Resp: 16292
 Ion Ratio Lower Upper
 129 100
 127 80.9 40.2 120.5

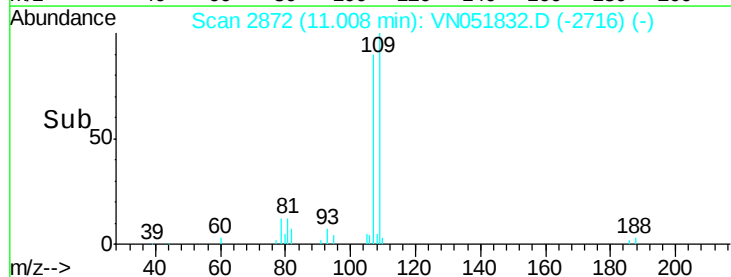
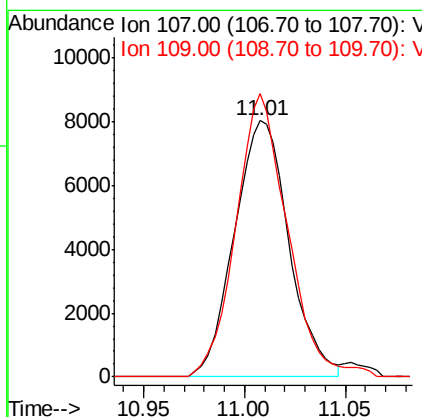
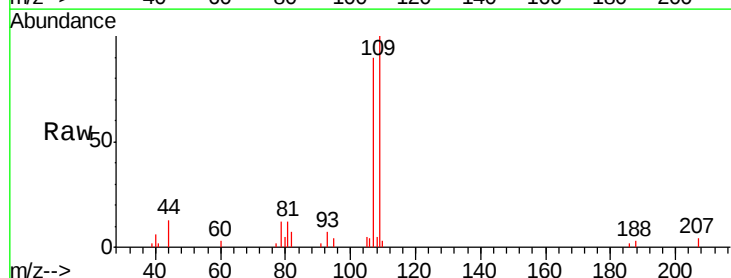
Manual Integrations
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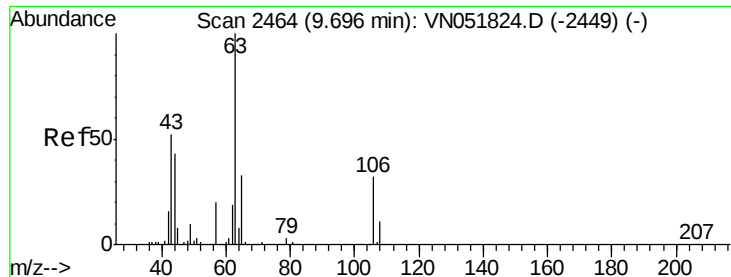
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#54
 1,2-Dibromoethane
 Concen: 2.20 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion:107 Resp: 15208
 Ion Ratio Lower Upper
 107 100
 109 103.5 77.4 116.0





#55

2-Chloroethyl vinyl ether

Concen: 11.51 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 63 Resp: 37125

Ion Ratio Lower Upper

63 100

65 31.2 25.4 38.0

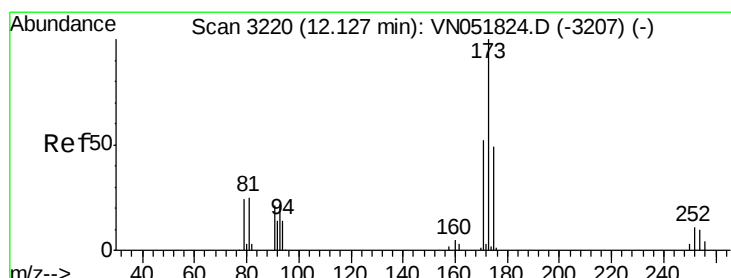
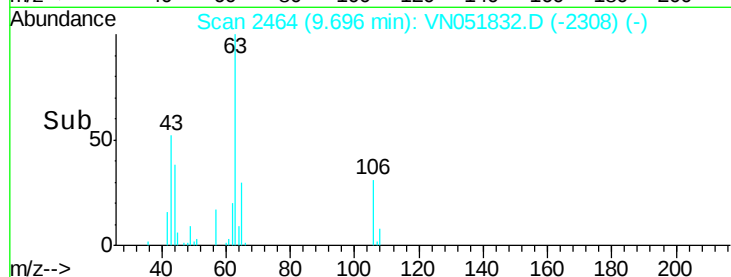
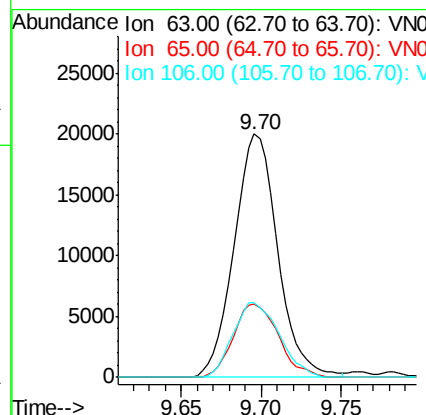
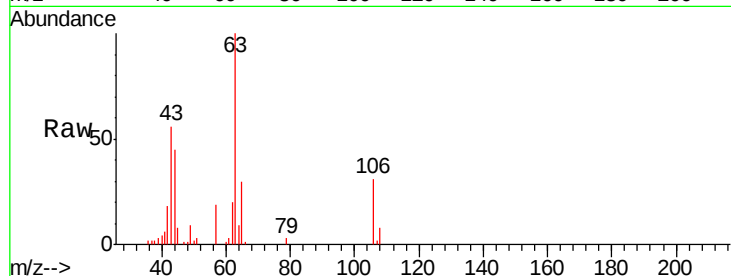
106 32.5 21.2 31.8#

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#56

Bromoform

Concen: 1.65 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

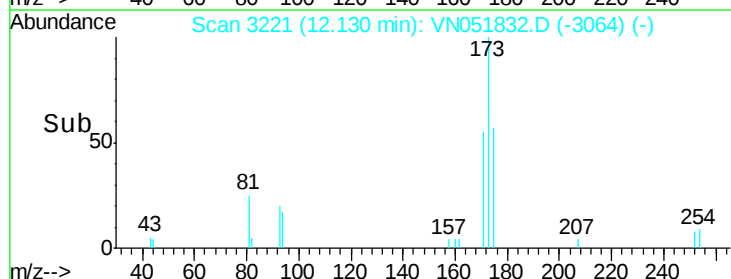
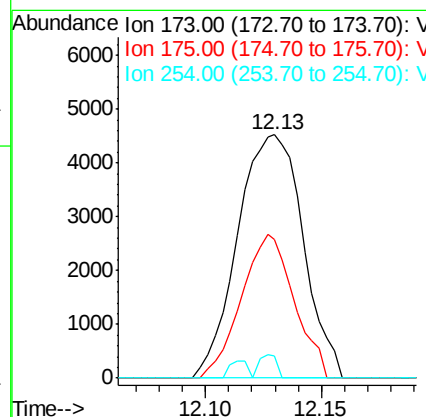
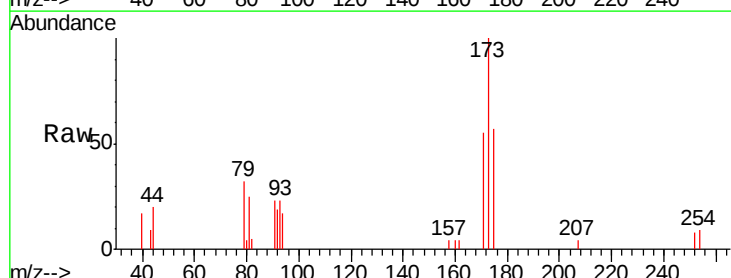
Tgt Ion: 173 Resp: 8864

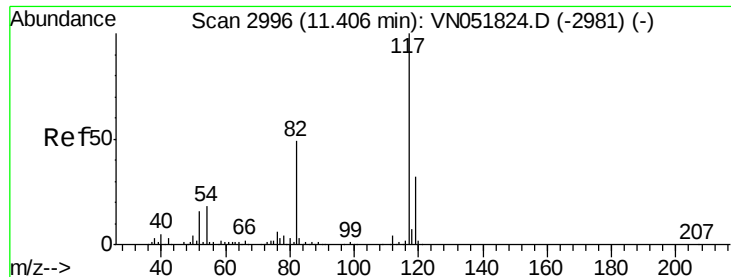
Ion Ratio Lower Upper

173 100

175 47.7 35.8 53.8

254 2.6 8.6 13.0#





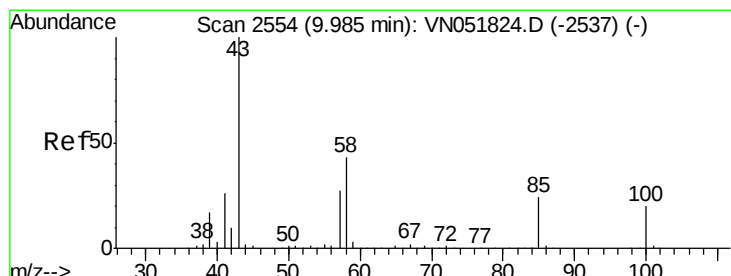
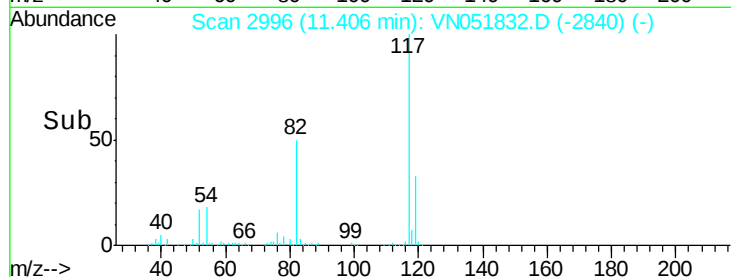
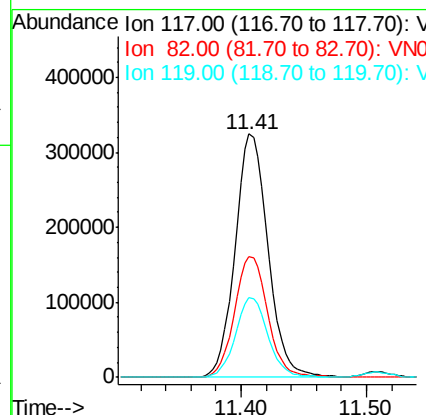
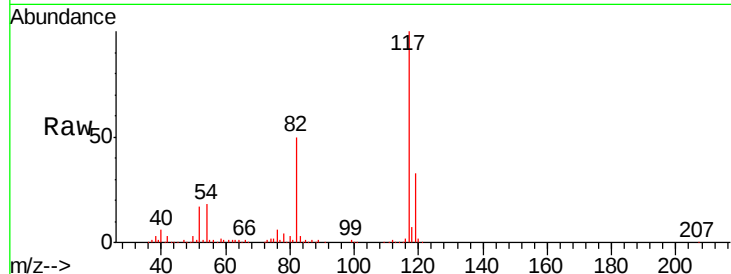
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	50.3	44.1	66.1
119	32.6	25.8	38.8

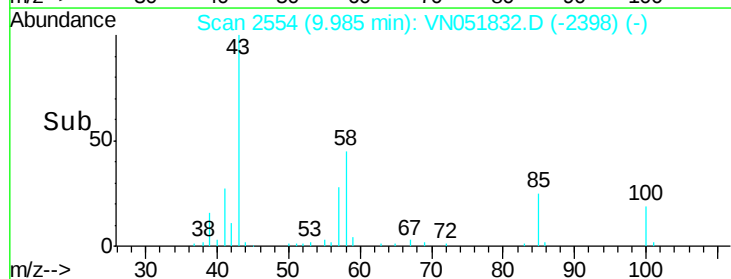
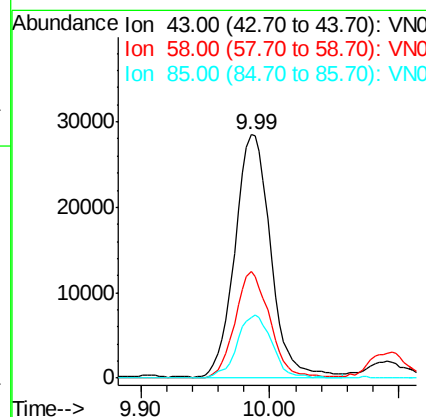
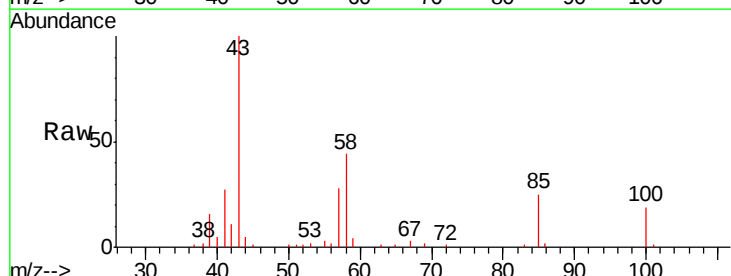
Manual Integrations
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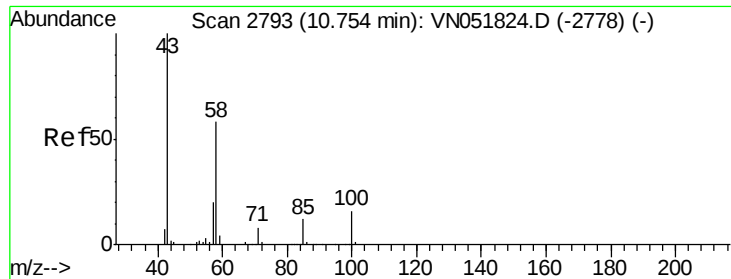
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#58
4-Methyl-2-Pentanone
Concen: 14.02 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
58	42.1	29.3	43.9
85	25.0	12.6	18.8#





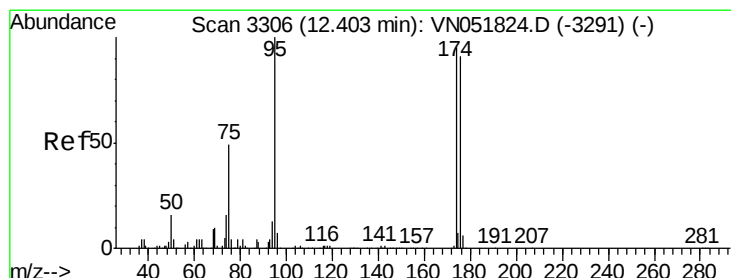
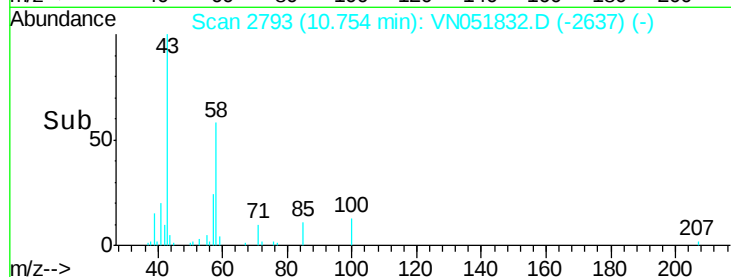
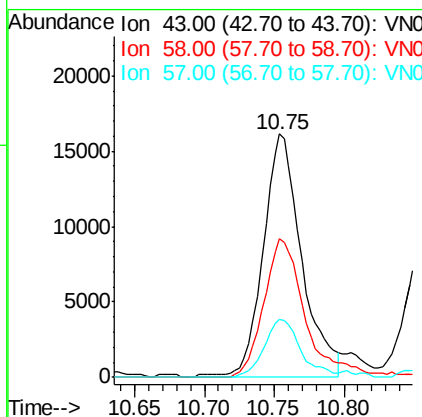
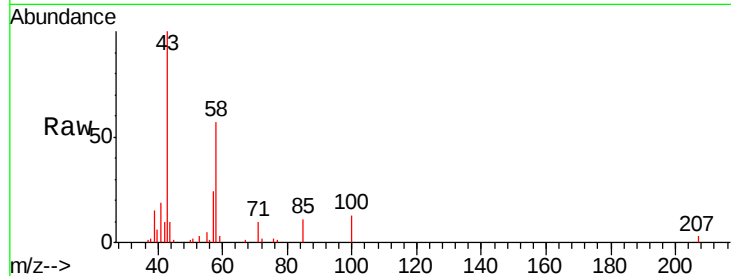
#59
2-Hexanone
Concen: 11.61 ug/l m
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
43	100		
58	1.6	41.3	61.9#
57	0.5	13.4	20.0#

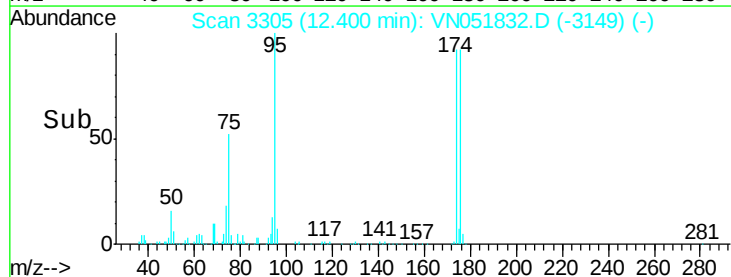
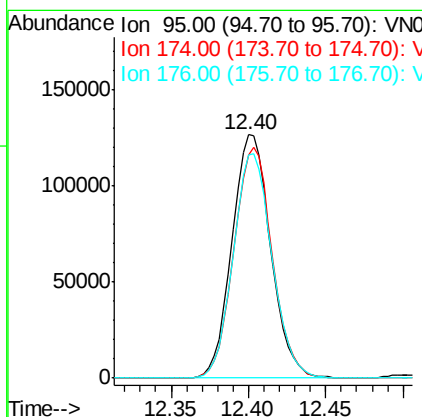
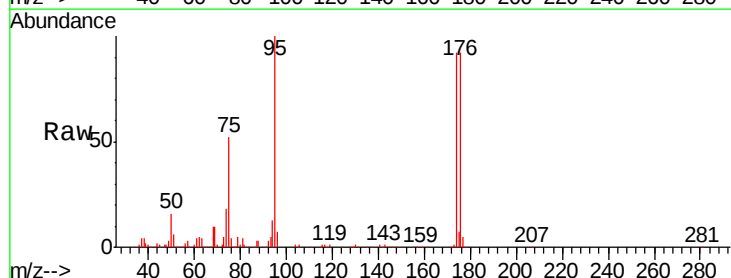
Manual Integrations
APPROVED

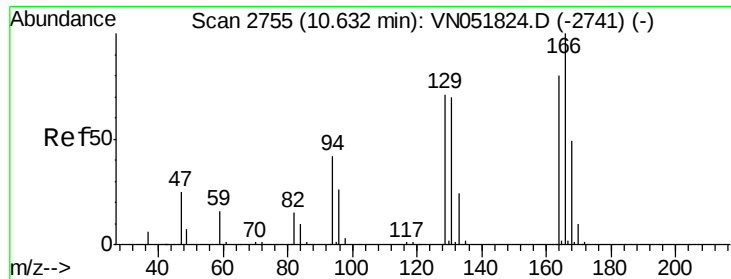
MMDadoda
10/15/2018 11:27:57 AM



#60
4-Bromofluorobenzene
Concen: 11.61 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.2	73.5	110.3
176	92.5	70.2	105.2





#61

Tetrachloroethene

Concen: 2.72 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 164 Resp: 20539

Ion Ratio Lower Upper

164 100

166 127.0 98.7 148.1

129 85.1 69.6 104.4

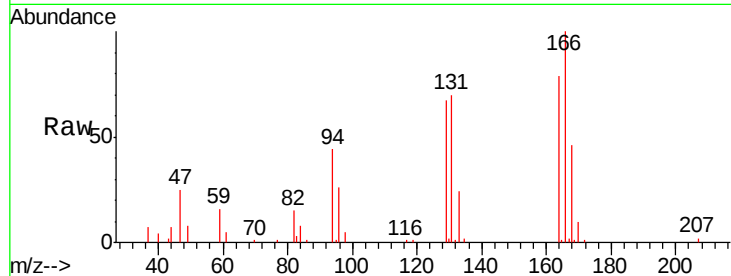
131 88.9 72.4 108.6

Manual Integrations

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MMDadoda

10/15/2018 11:27:57 AM

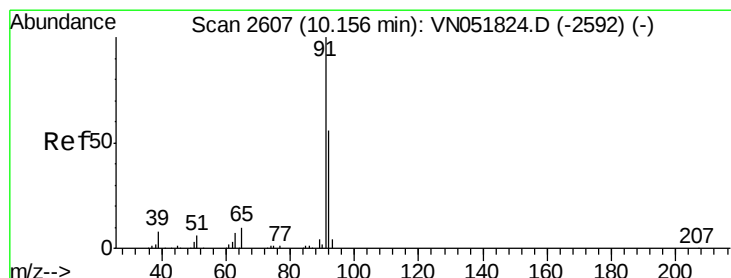
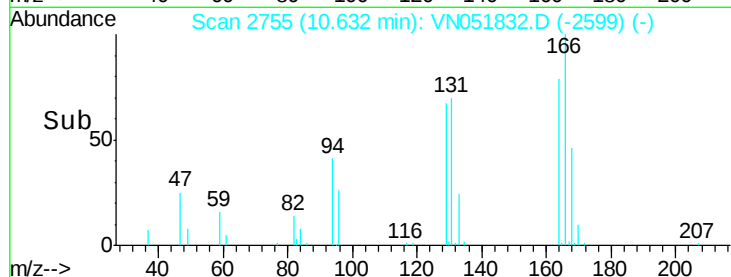
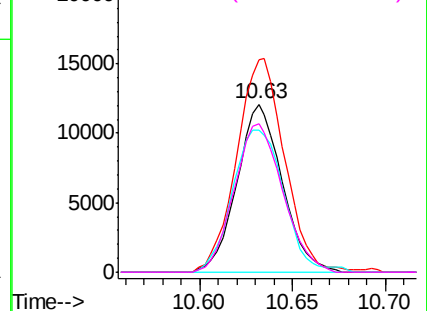


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.75 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051832.D

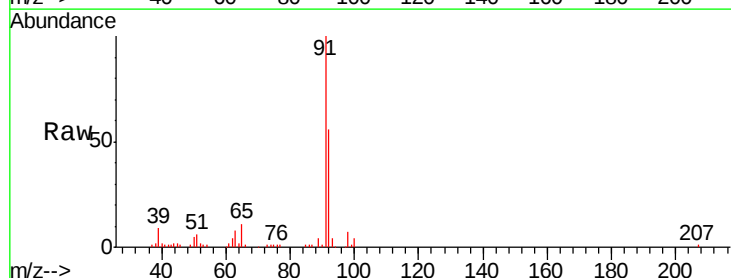
Acq: 12 Oct 2018 15:01

Tgt Ion: 91 Resp: 80677

Ion Ratio Lower Upper

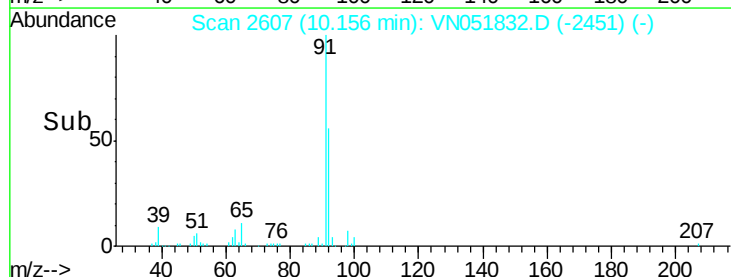
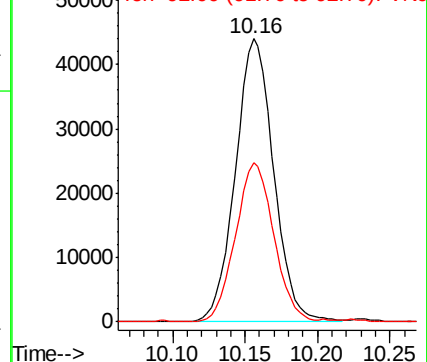
91 100

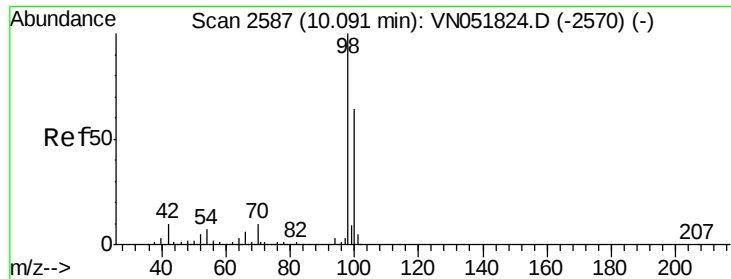
92 56.2 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





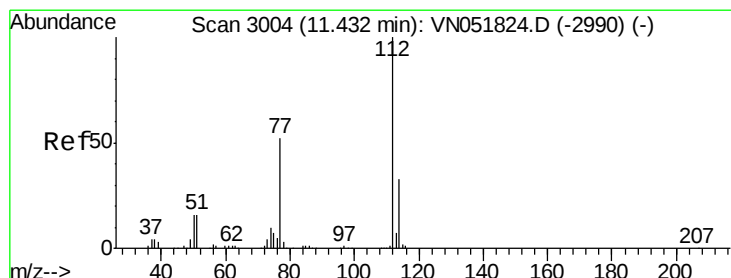
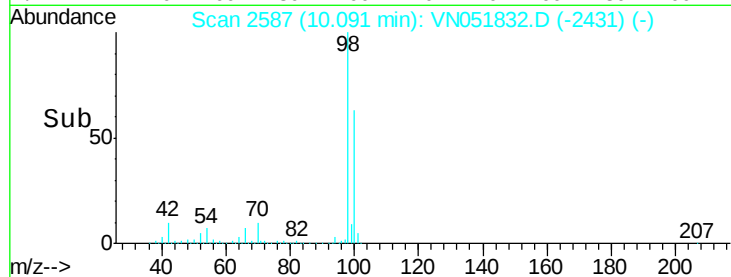
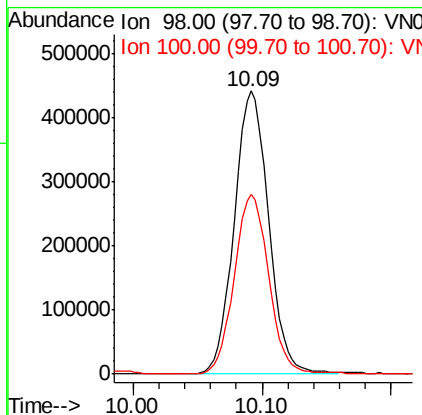
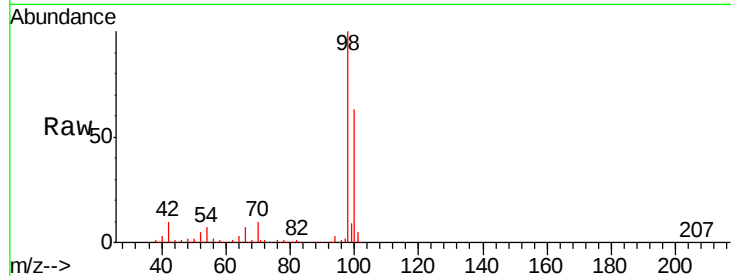
#63
Toluene-d8
Concen: 2.75 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 98 Resp: 818336
Ion Ratio Lower Upper
98 100
100 63.6 50.8 76.2

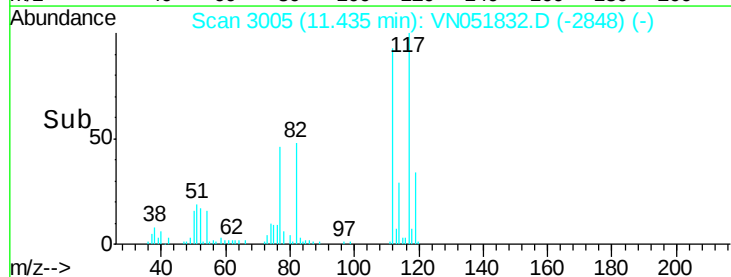
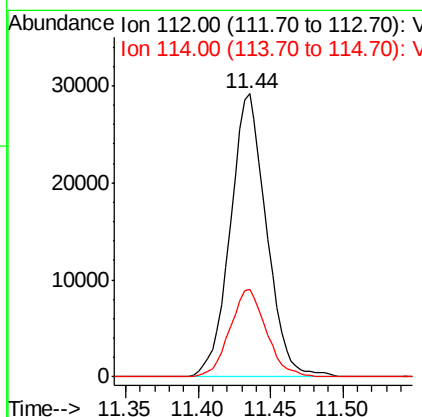
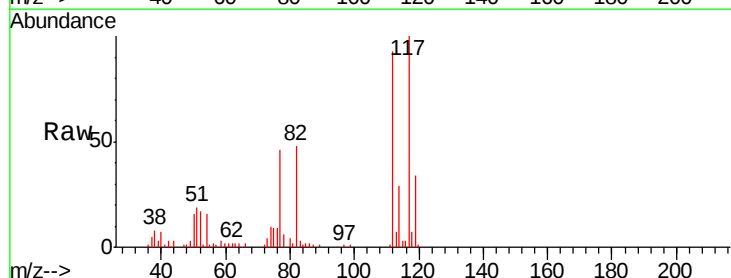
Manual Integrations
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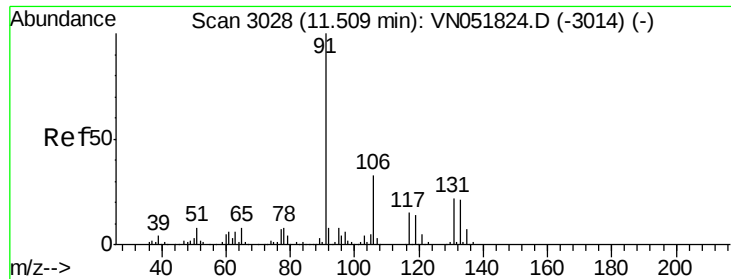
MMDadoda
10/15/2018 11:27:57 AM



#64
Chlorobenzene
Concen: 2.63 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion: 112 Resp: 50494
Ion Ratio Lower Upper
112 100
114 30.9 27.5 41.3





#65

1,1,1,2-Tetrachloroethane

Concen: 2.46 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

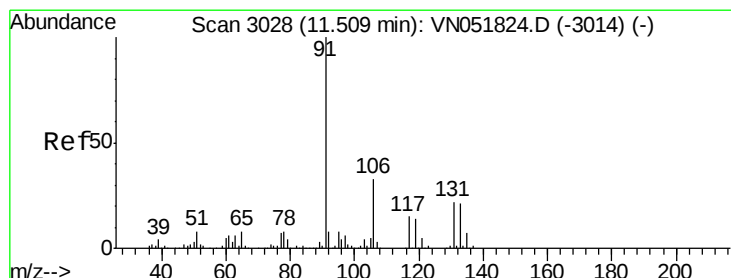
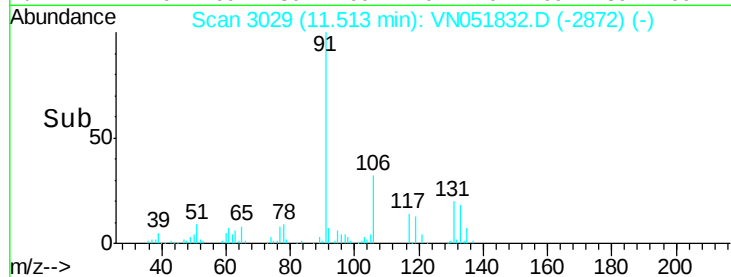
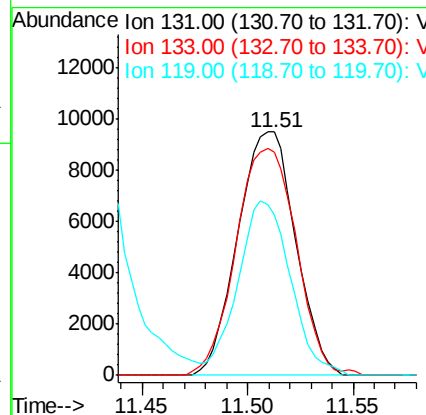
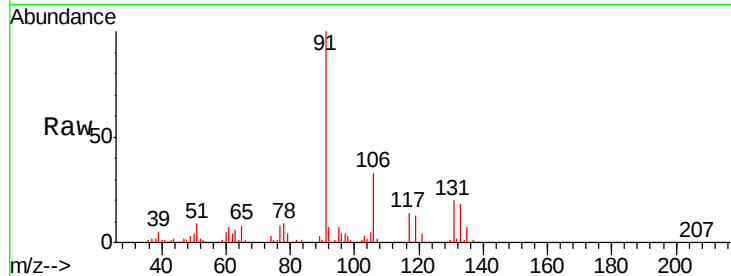
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	131	Resp:	18137
Ion Ratio	Lower	Upper	
131	100		
133	96.9	0.0	190.4
119	65.5	0.0	128.0

Manual Integrations
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10/15/2018 11:27:57 AM



#66

Ethyl Benzene

Concen: 2.56 ug/l

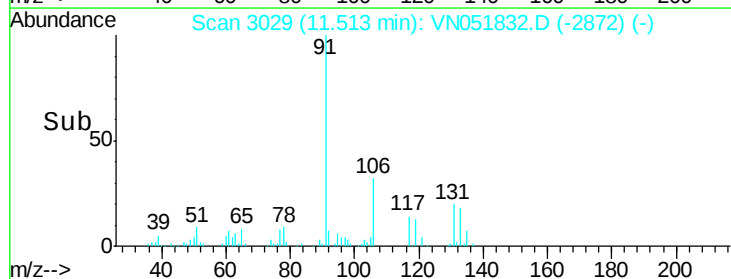
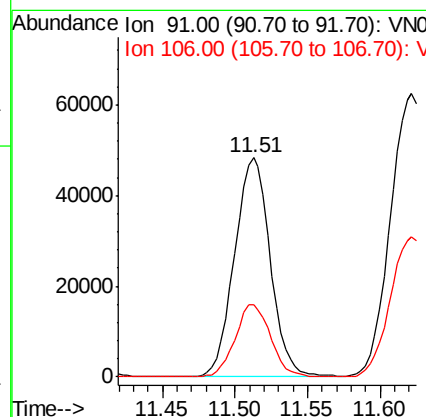
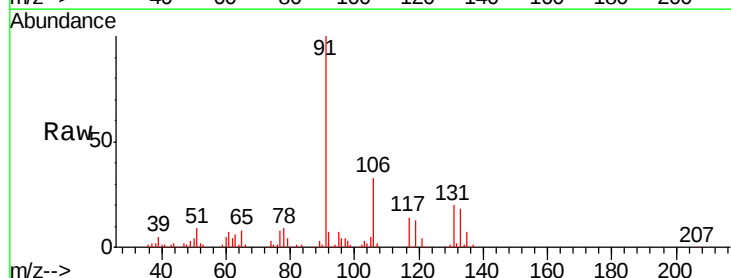
RT: 11.51 min Scan# 3029

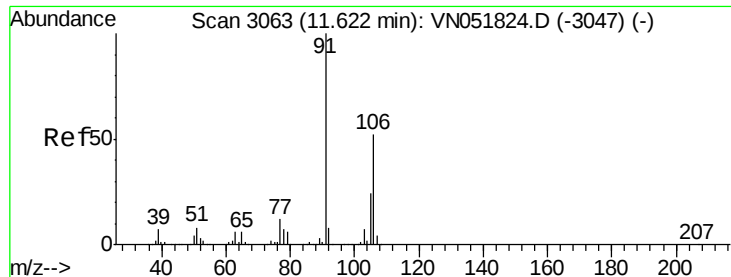
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	91	Resp:	82920
Ion Ratio	Lower	Upper	
91	100		
106	32.8	25.9	38.9





#67

m/p-Xylenes

Concen: 4.70 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:106 Resp: 61779

Ion Ratio Lower Upper

106 100

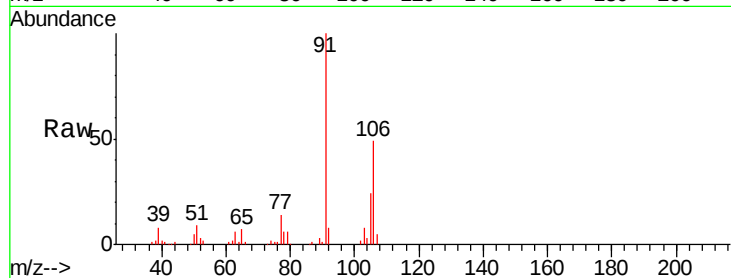
91 202.3 158.8 238.2

Manual Integrations

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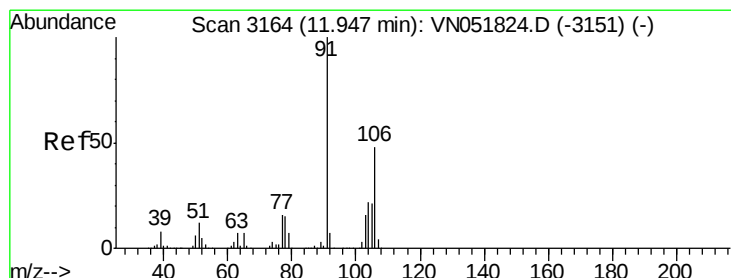
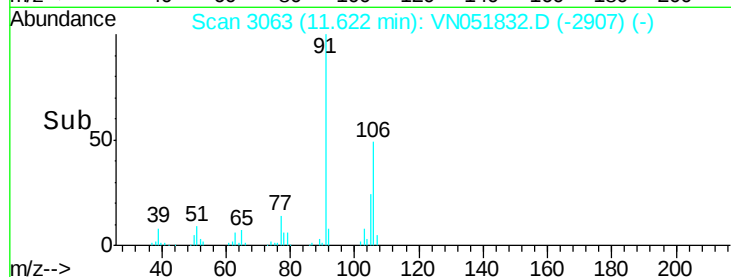
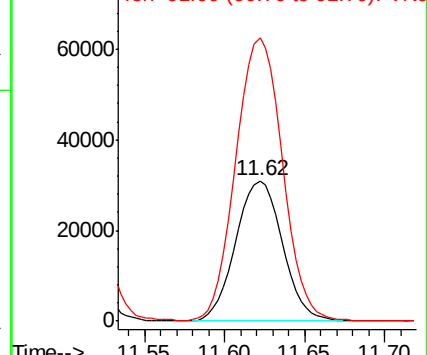
MMDadoda

10/15/2018 11:27:57 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 2.44 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN051832.D

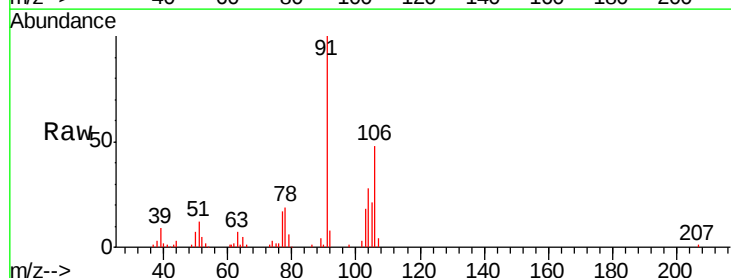
Acq: 12 Oct 2018 15:01

Tgt Ion:106 Resp: 31620

Ion Ratio Lower Upper

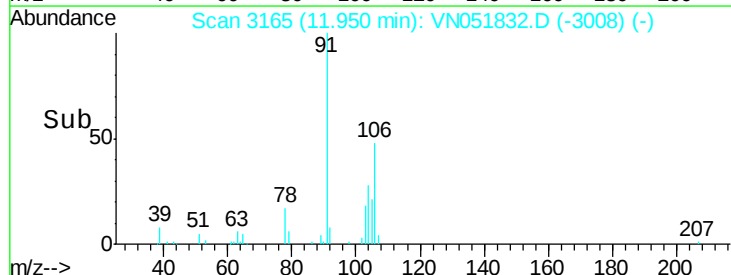
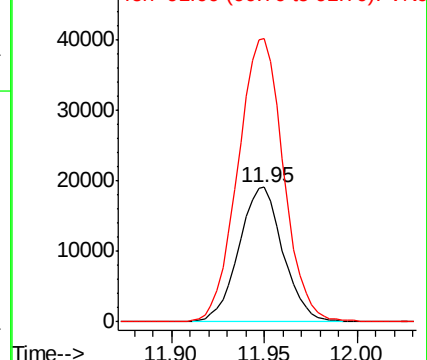
106 100

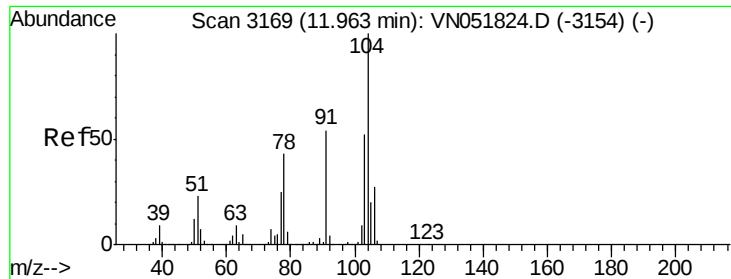
91 217.2 111.1 333.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





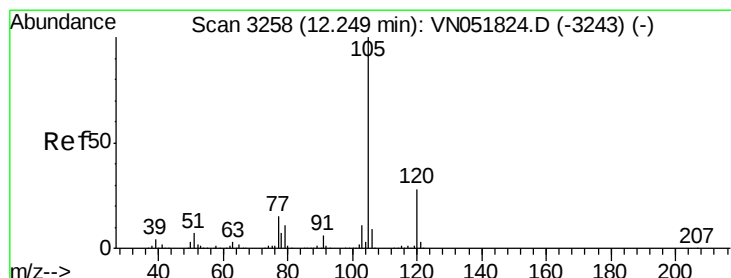
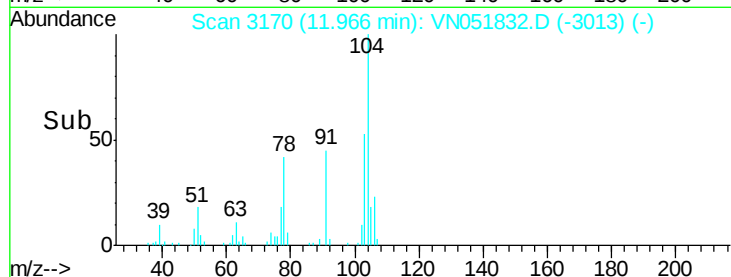
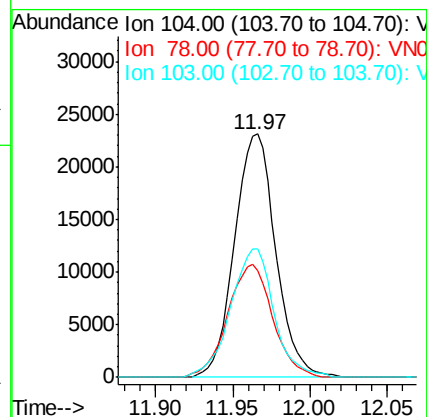
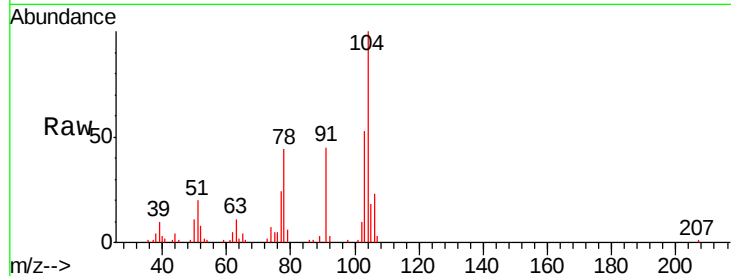
#69
Styrene
Concen: 2.15 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	42796		
78	50.6		40.6	60.8
103	55.8		44.0	66.0

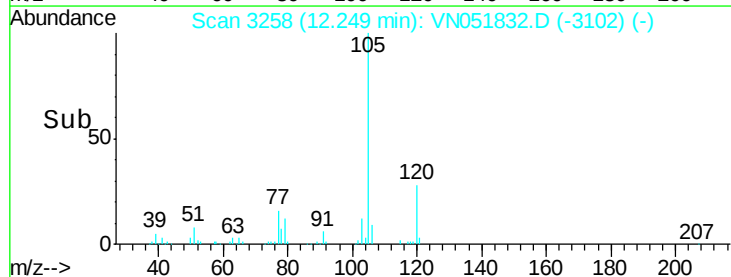
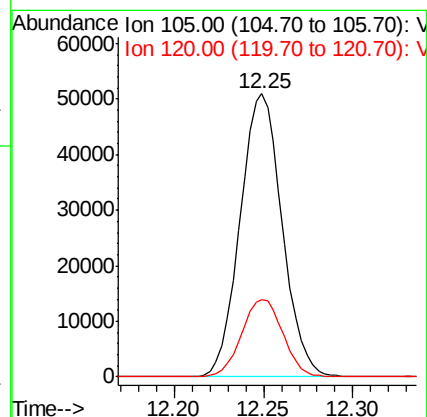
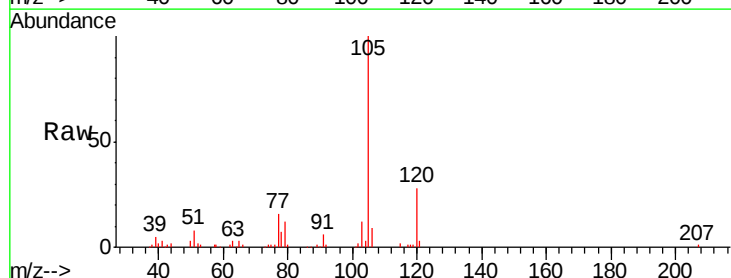
Manual Integrations
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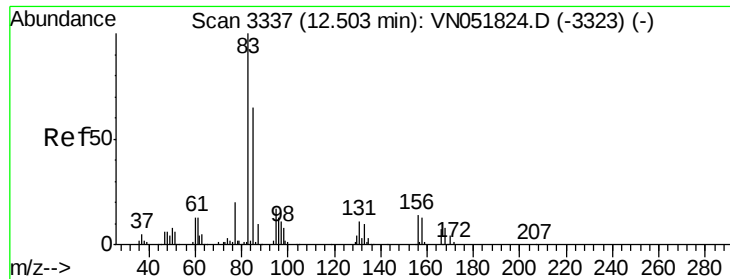
MMDadoda
10/15/2018 11:27:57 AM



#70
Isopropylbenzene
Concen: 2.42 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	83763		
120	27.0		19.0	35.4





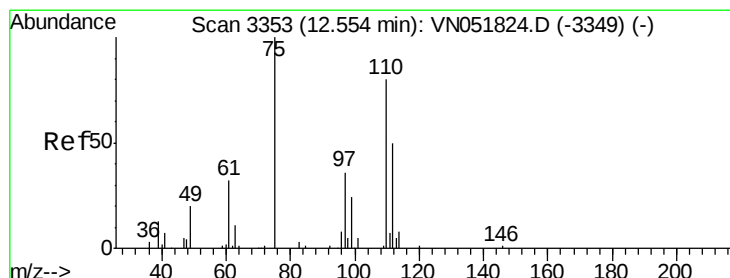
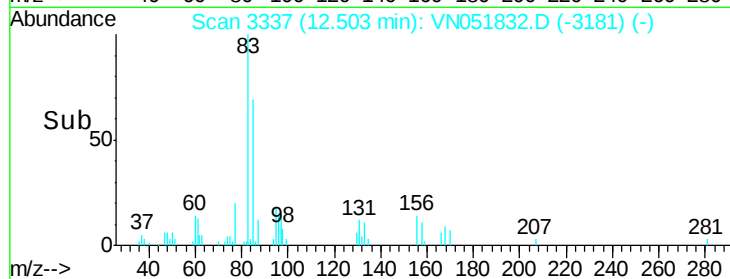
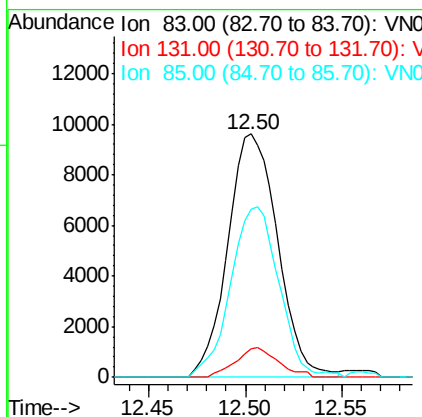
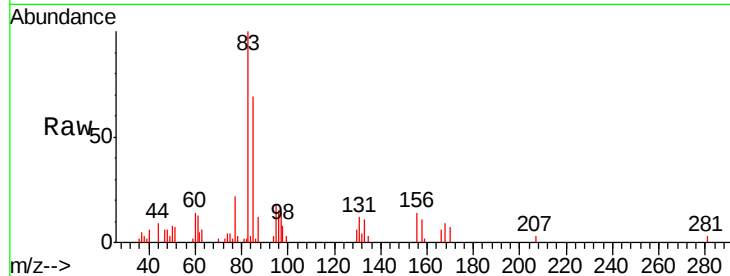
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.53 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.5	16.4
85	67.1	30.6	91.8

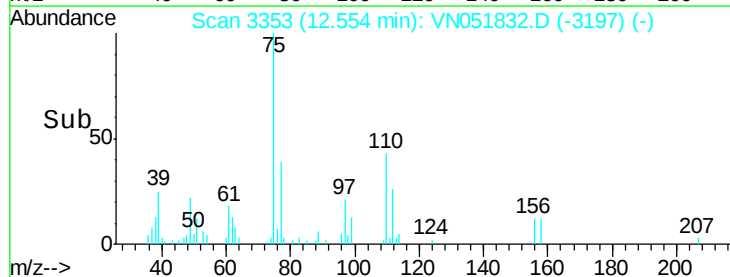
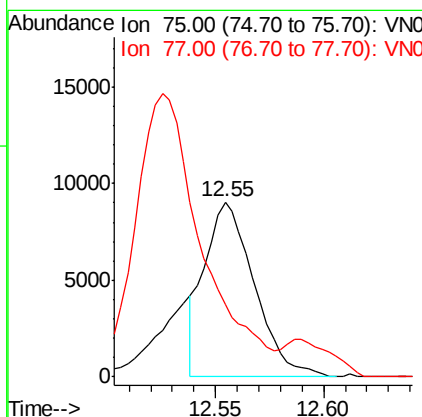
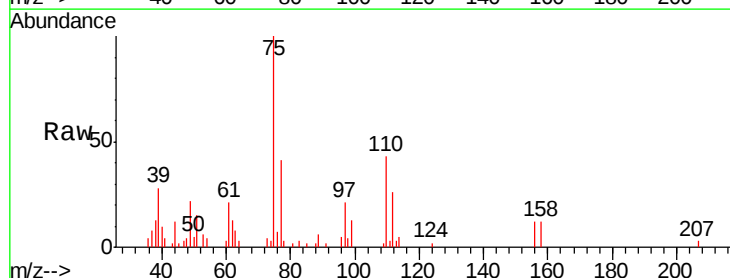
Manual Integrations
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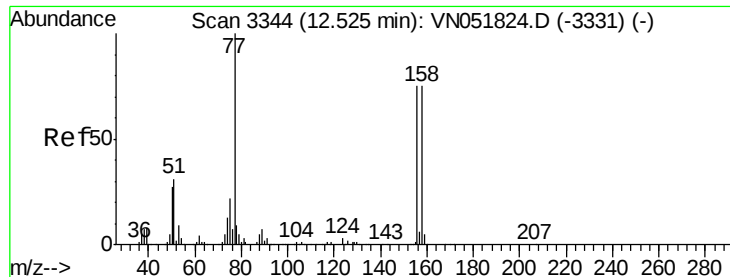
MMDadoda
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#72
 1,2,3-Trichloropropane
 Concen: 2.68 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	217.8	0.0	400.0





#73

Bromobenzene

Concen: 2.19 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

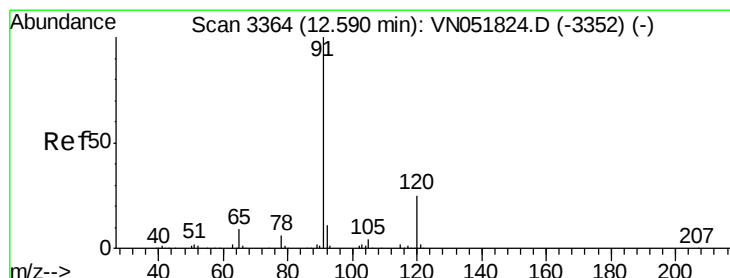
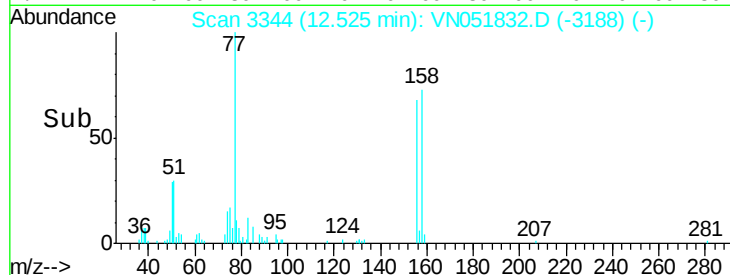
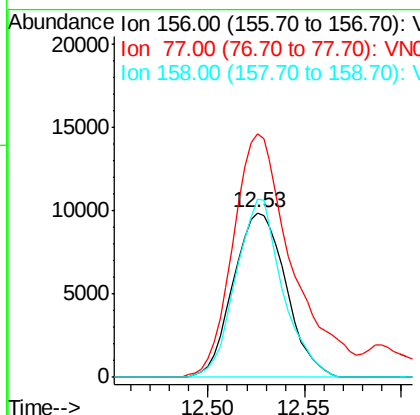
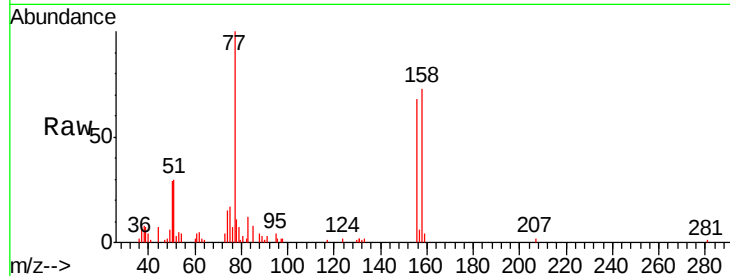
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	156	Resp:	18761
Ion Ratio	Lower	Upper	
156	100		
77	167.3	0.0	377.4
158	96.3	0.0	203.0

Manual Integrations
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10/15/2018 11:27:57 AM



#74

n-propylbenzene

Concen: 2.24 ug/l

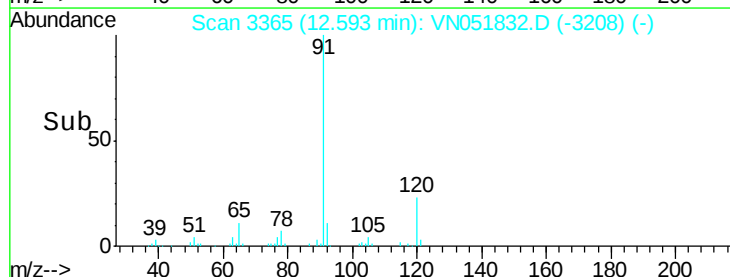
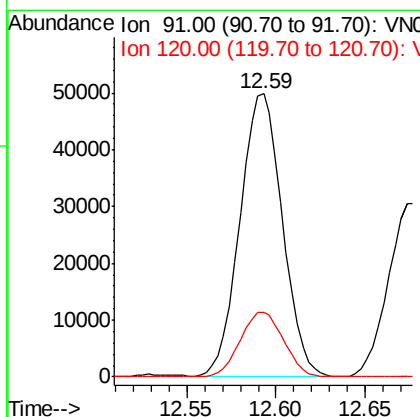
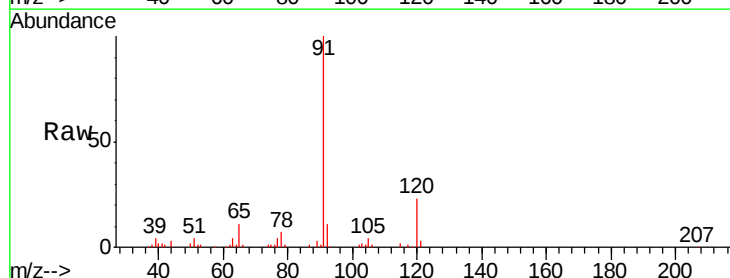
RT: 12.59 min Scan# 3365

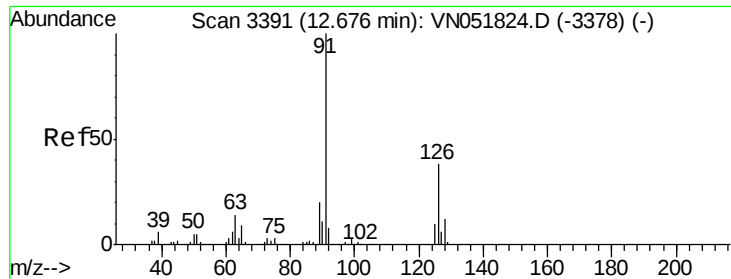
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	91	Resp:	83202
Ion Ratio	Lower	Upper	
91	100		
120	23.1	0.0	45.0





#75

2-Chlorotoluene

Concen: 2.39 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 91 Resp: 52022

Ion Ratio Lower Upper

91 100

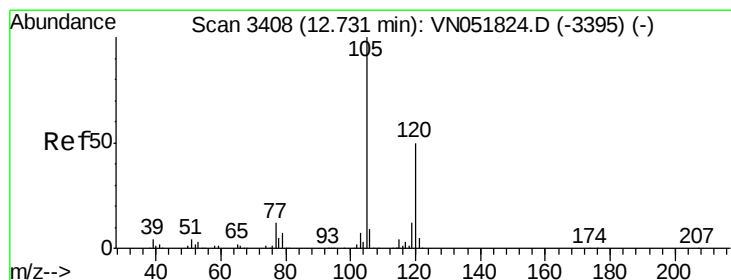
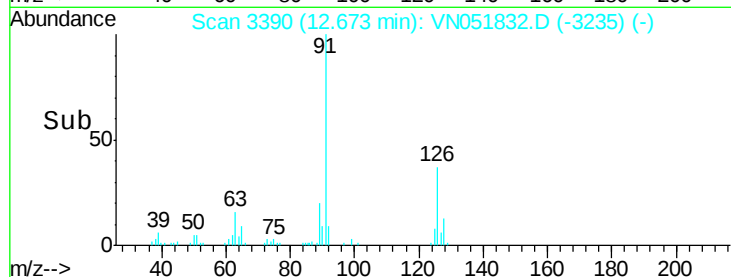
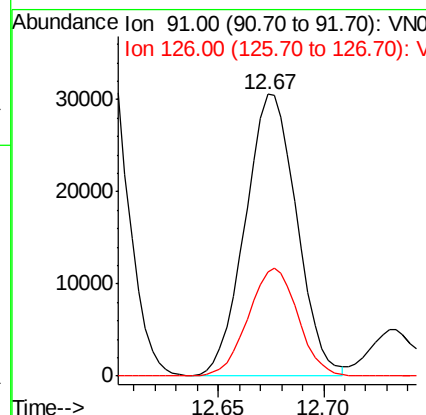
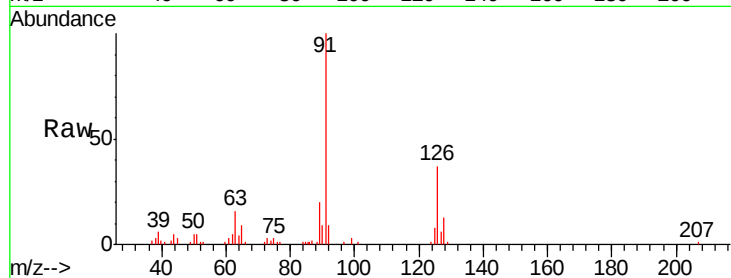
126 36.8 0.0 67.6

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#76

1,3,5-Trimethylbenzene

Concen: 2.31 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051832.D

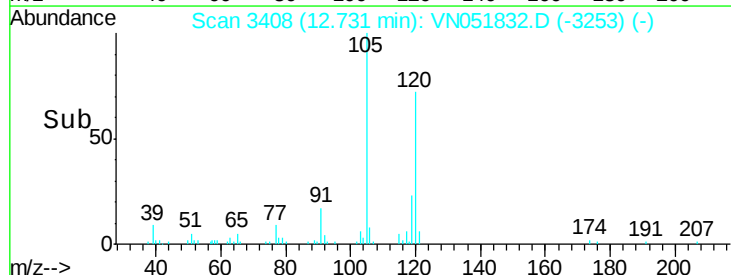
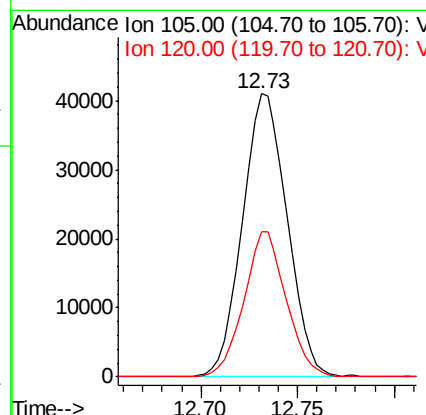
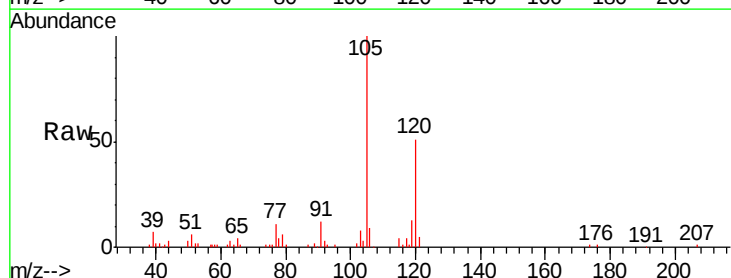
Acq: 12 Oct 2018 15:01

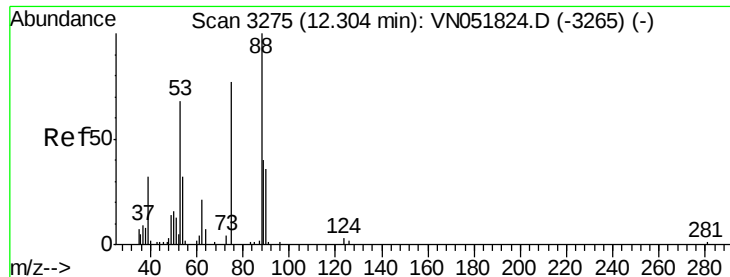
Tgt Ion: 105 Resp: 65887

Ion Ratio Lower Upper

105 100

120 48.5 0.0 98.2





#77

t-1,4-Dichloro-2-butene

Concen: 1.66 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

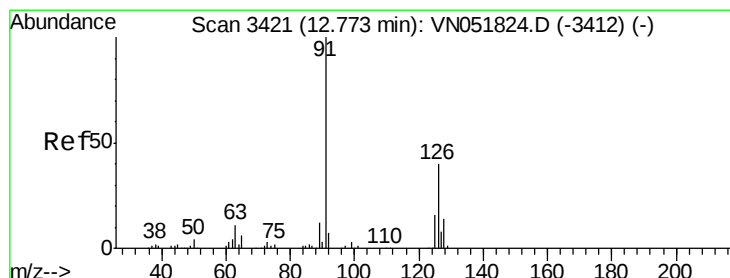
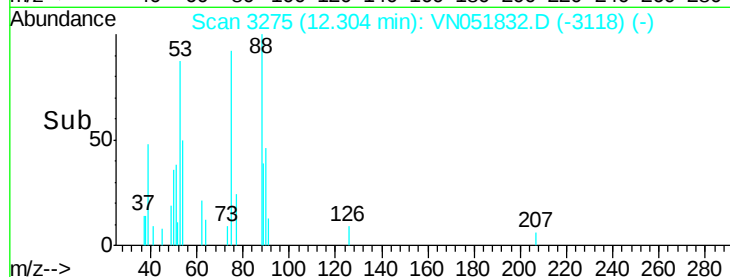
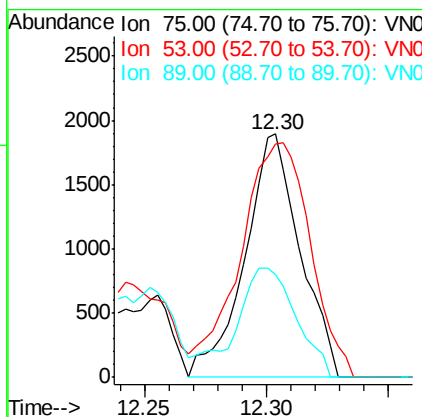
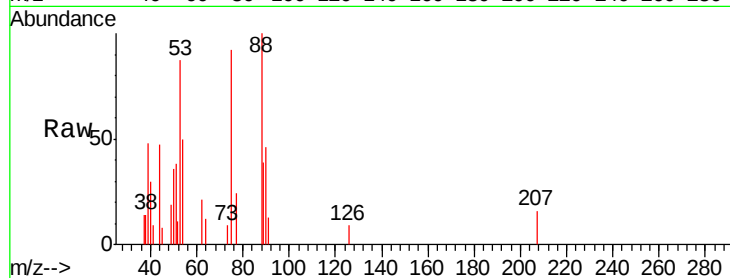
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion:	75	Resp:	2954
Ion	Ratio	Lower	Upper
75	100		
53	86.0	46.3	138.9
89	42.2	24.6	73.8

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#78

4-Chlorotoluene

Concen: 2.02 ug/l

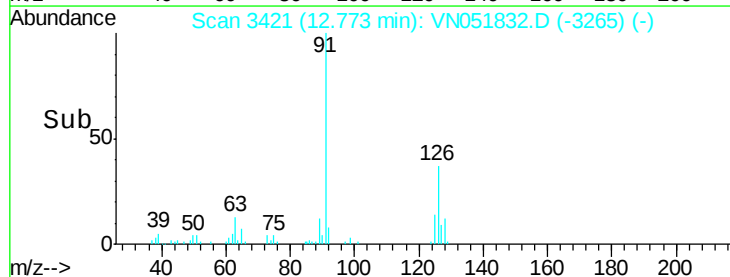
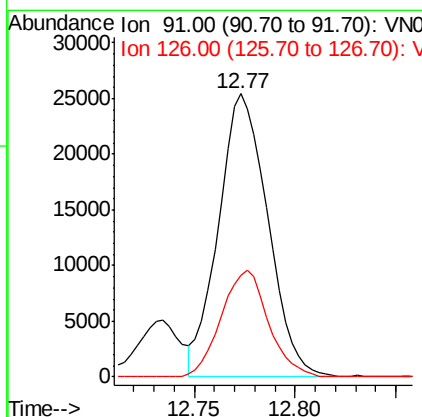
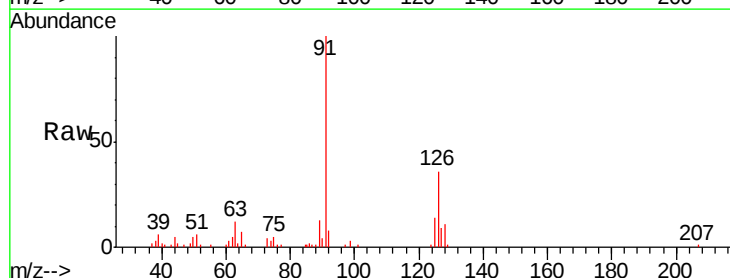
RT: 12.77 min Scan# 3421

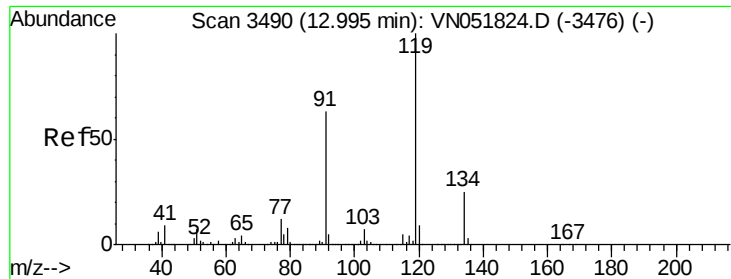
Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Tgt Ion:	91	Resp:	43357
Ion	Ratio	Lower	Upper
91	100		
126	36.1	0.0	65.2





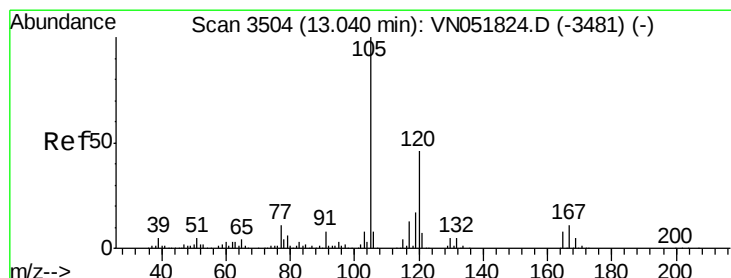
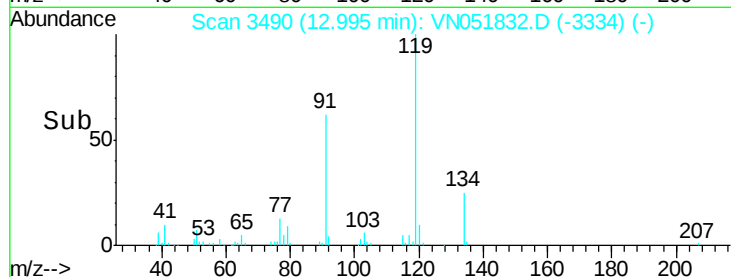
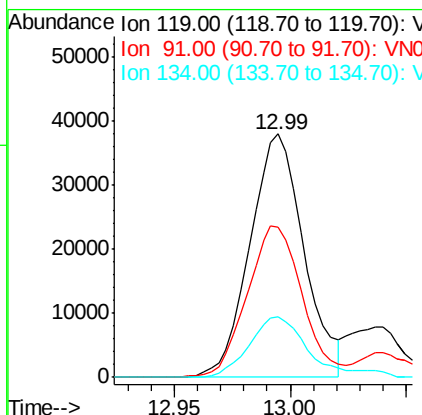
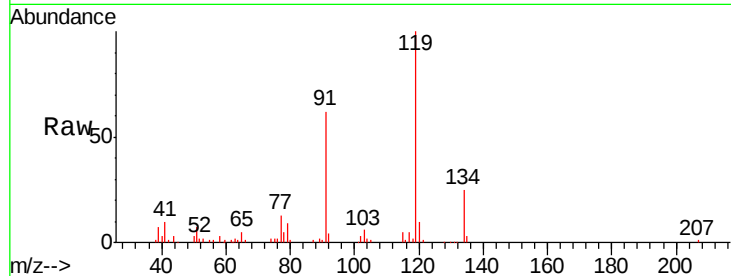
#79
 tert-butylbenzene
 Concen: 2.34 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	61455		
91	63.7		0.0	131.6
134	26.5		0.0	46.2

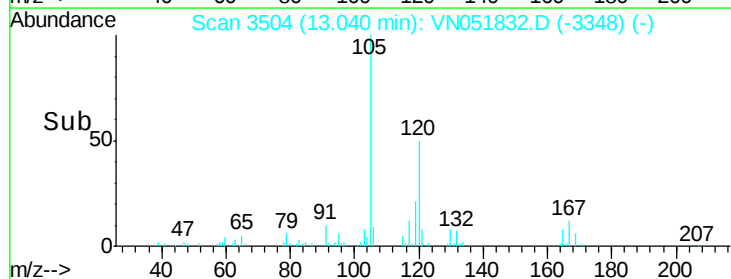
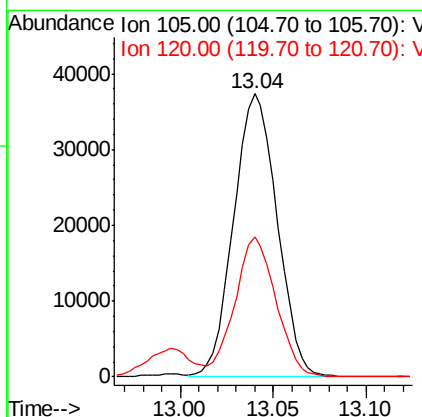
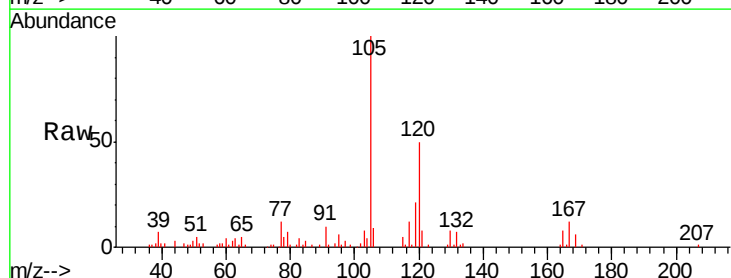
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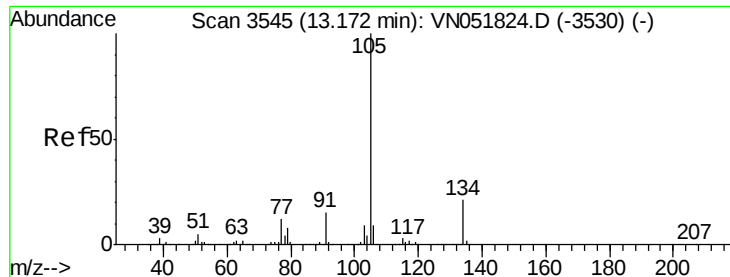
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#80
 1,2,4-Trimethylbenzene
 Concen: 2.13 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	60840		
120	46.6		0.0	89.6





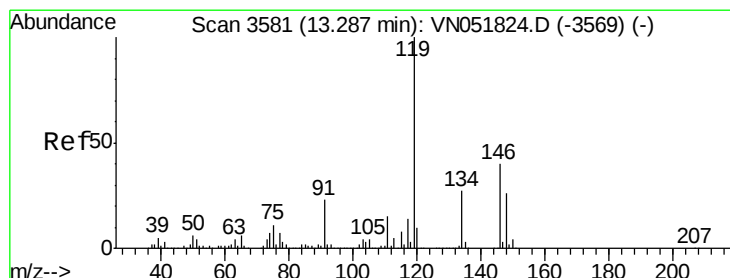
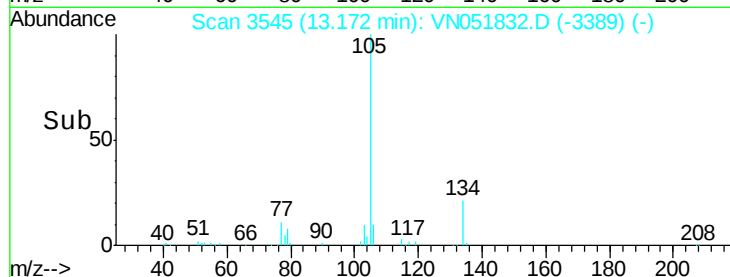
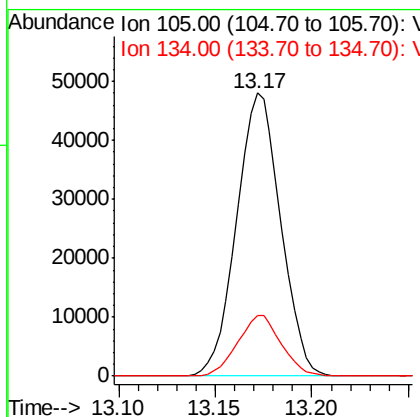
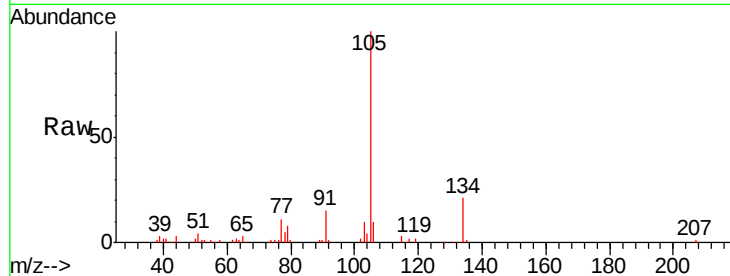
#81
 sec-Butylbenzene
 Concen: 2.22 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.1	0.0	39.4

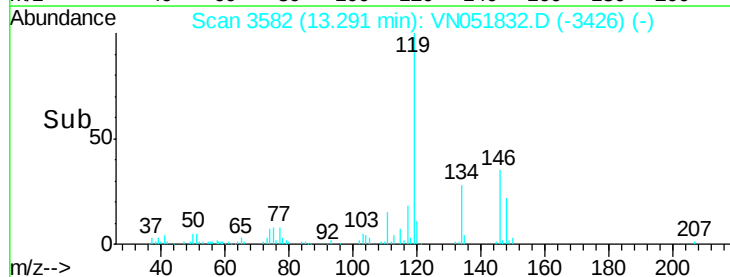
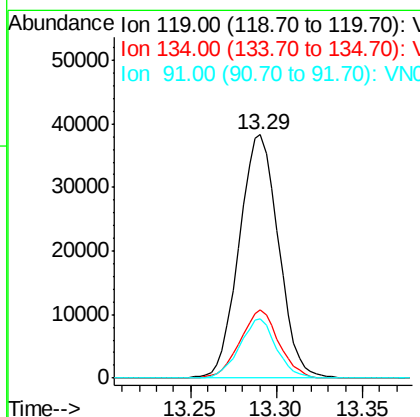
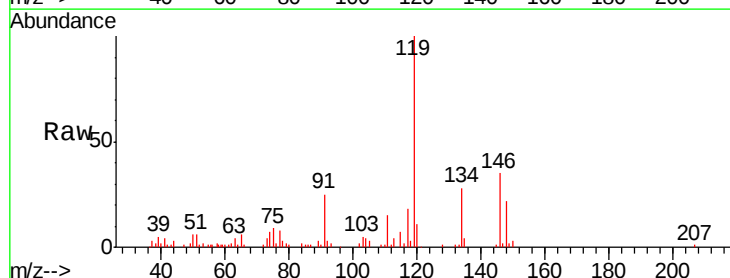
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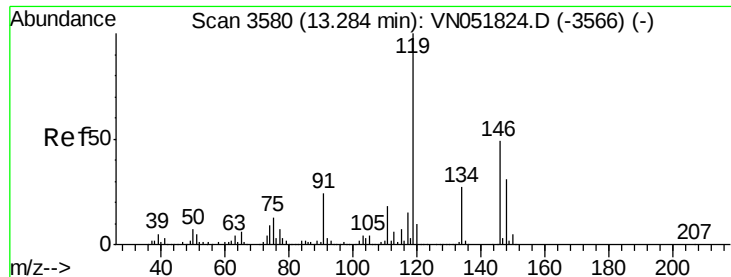
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#82
 p-Isopropyltoluene
 Concen: 1.98 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.4	0.0	53.6
91	22.5	0.0	52.0





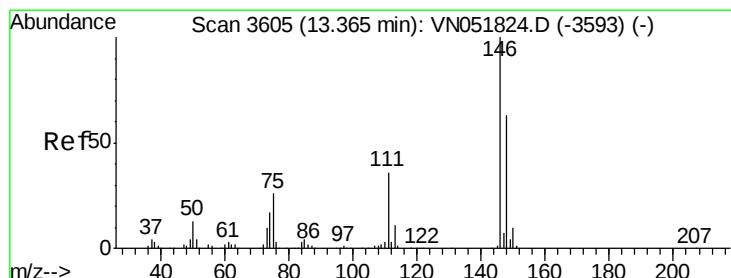
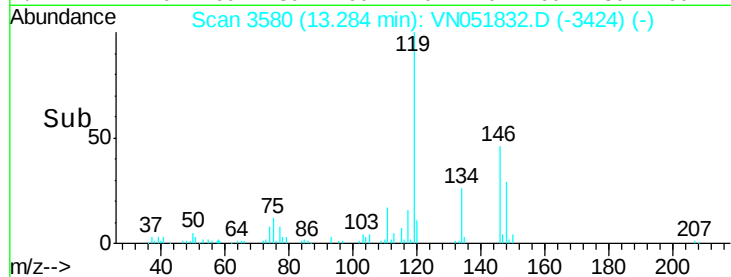
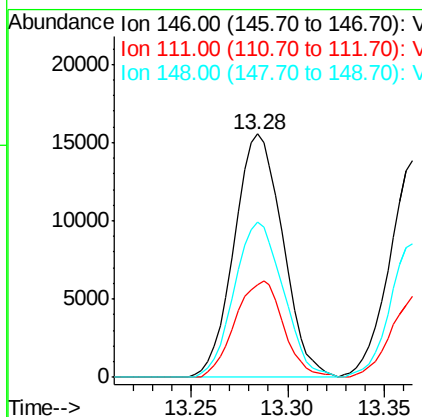
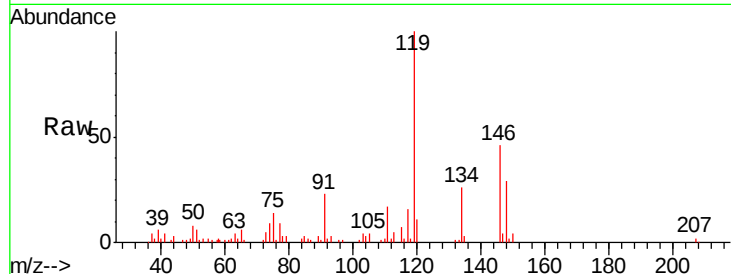
#83
 1,3-Dichlorobenzene
 Concen: 1.80 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.3	18.1	54.3
148	64.1	31.3	93.8

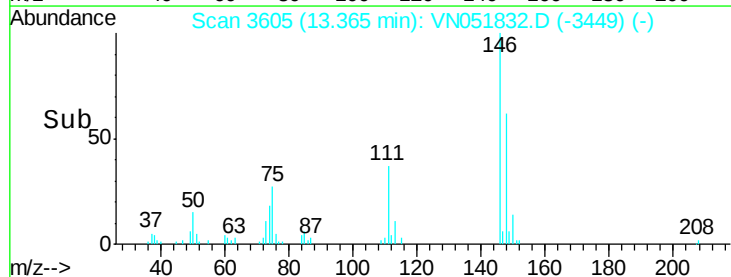
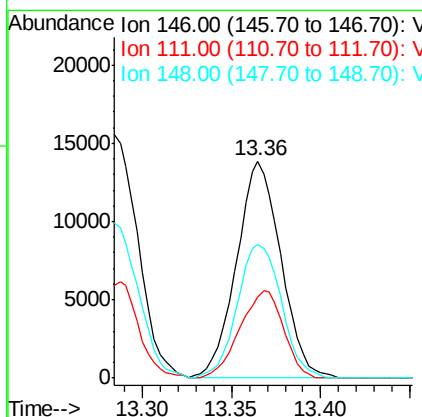
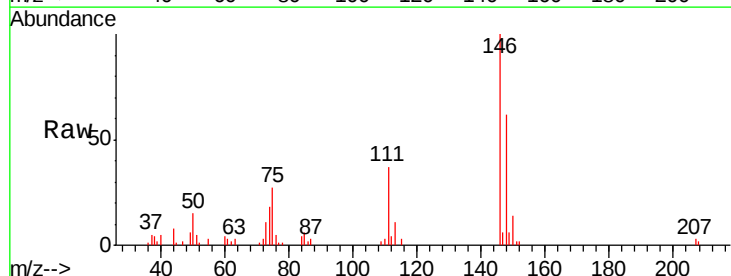
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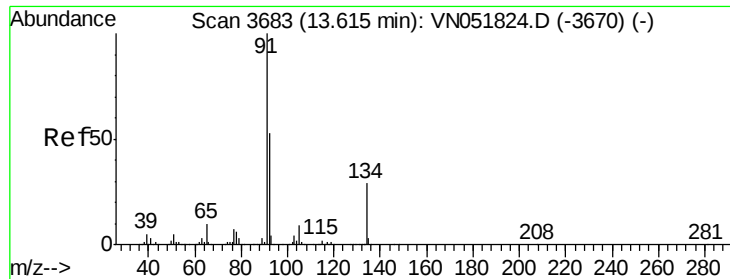
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#84
 1,4-Dichlorobenzene
 Concen: 1.70 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	17.4	52.2
148	61.3	32.8	98.3





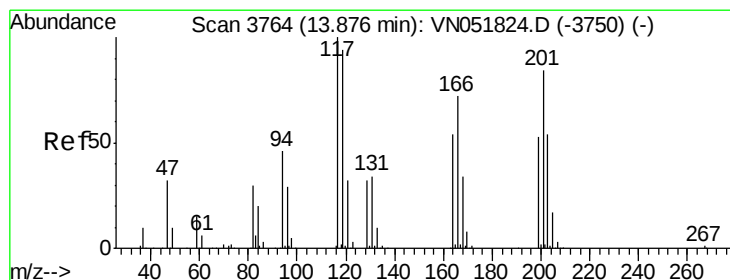
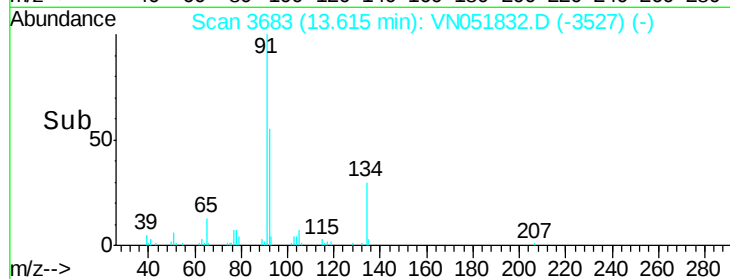
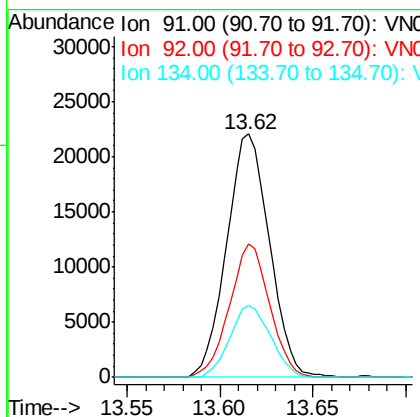
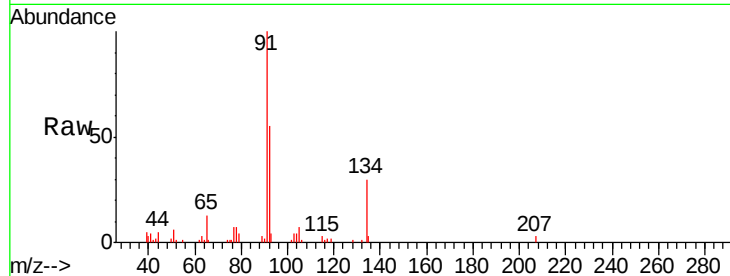
#85
n-Butylbenzene
Concen: 1.52 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	35314		
92	51.4	0.0	97.4	
134	28.1	0.0	49.6	

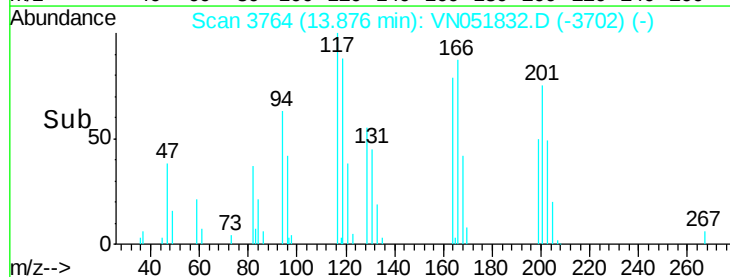
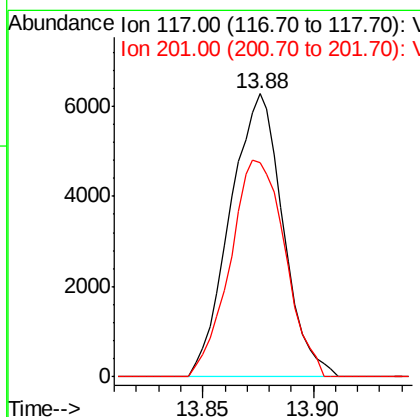
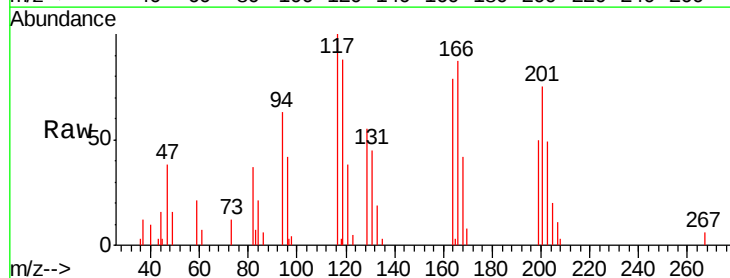
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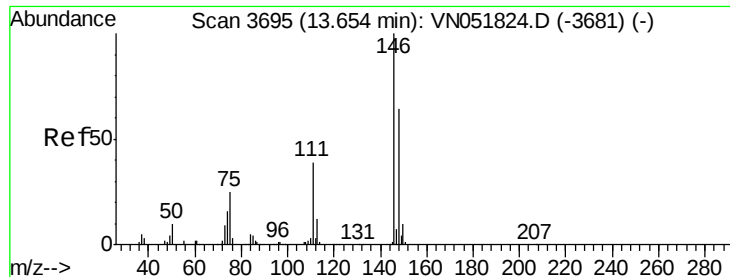
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#86
Hexachloroethane
Concen: 1.97 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	10451		
201	79.8	47.8	143.3	





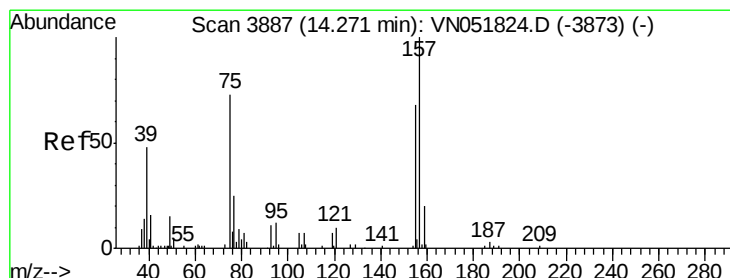
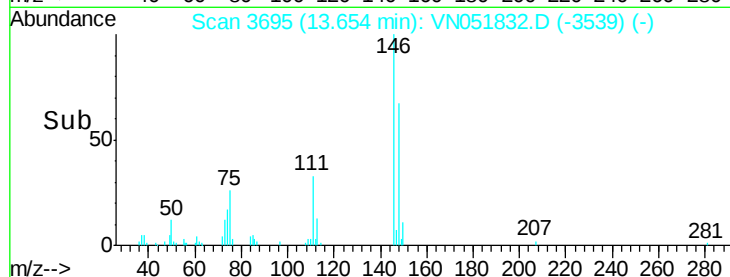
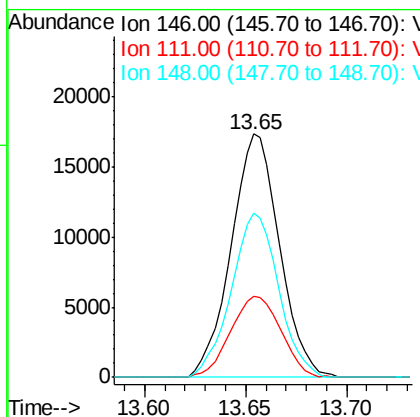
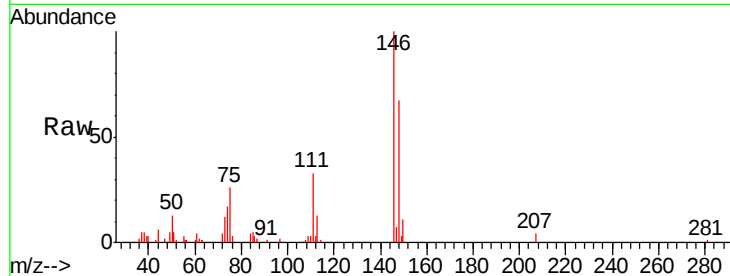
#87
 1,2-Dichlorobenzene
 Concen: 1.99 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	29052		
111	34.6	20.8	62.2	
148	66.1	33.2	99.6	

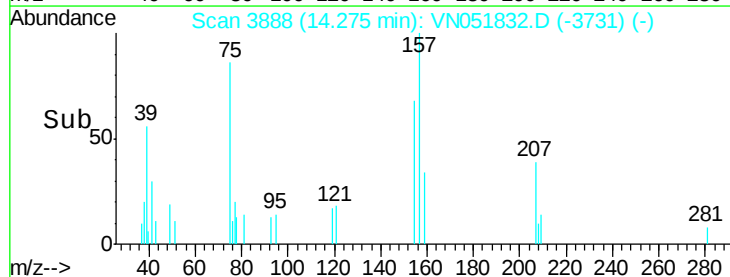
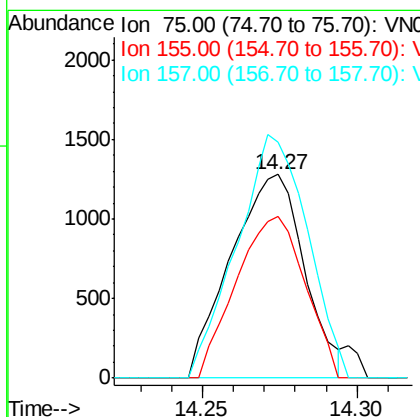
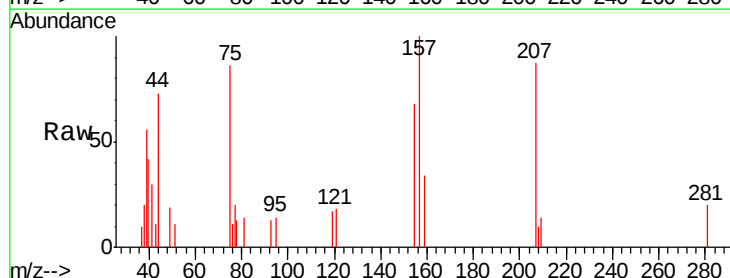
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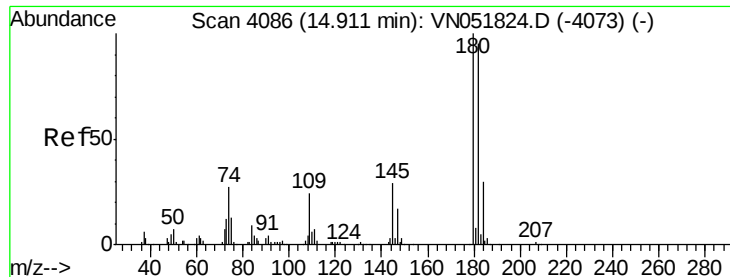
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.07 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	2110		
155	74.6	57.0	85.6	
157	115.4	87.4	131.0	





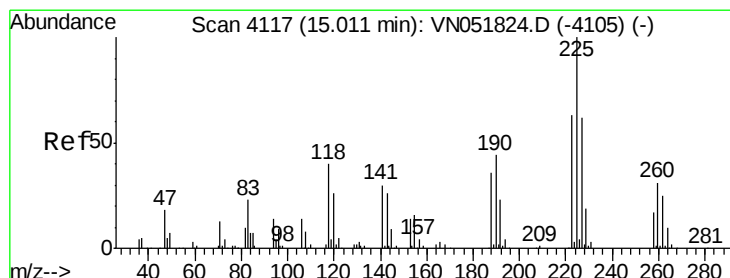
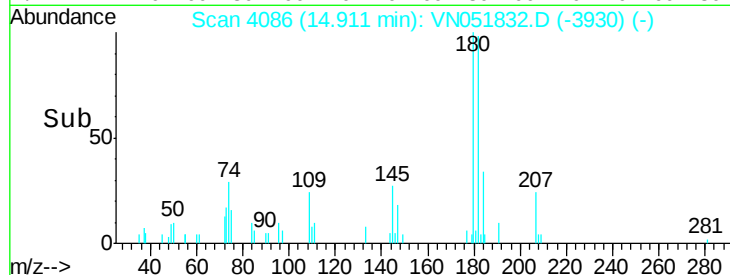
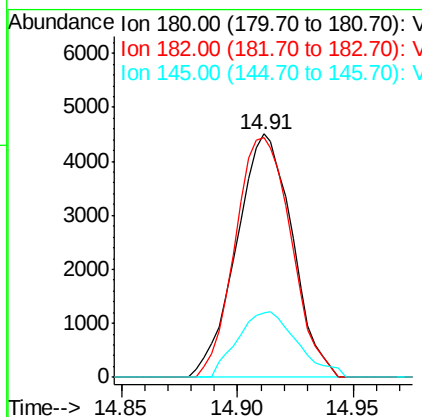
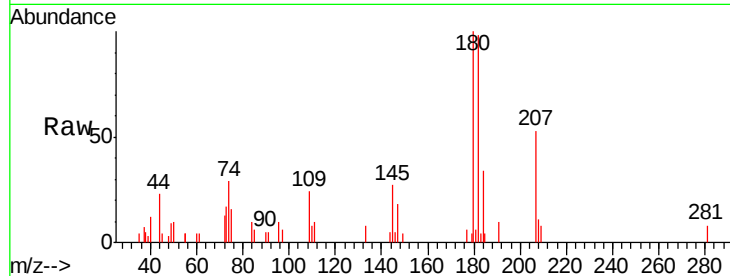
#89
 1,2,4-Trichlorobenzene
 Concen: 8.51 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.0	77.7	116.5
145	28.5	23.4	35.2

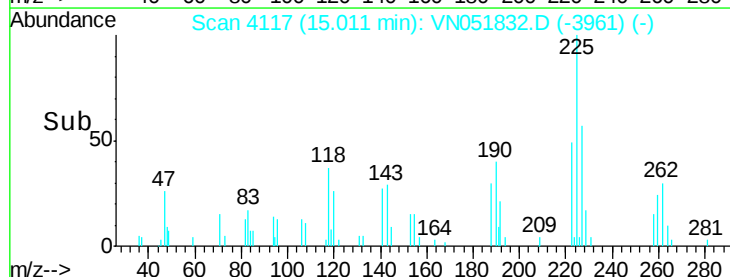
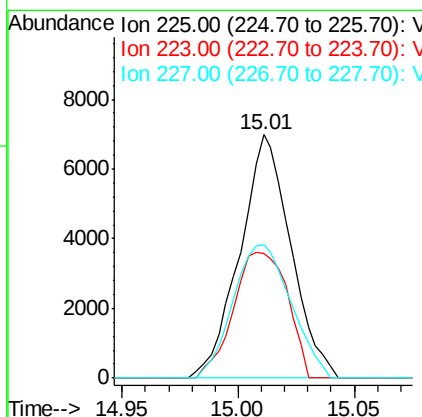
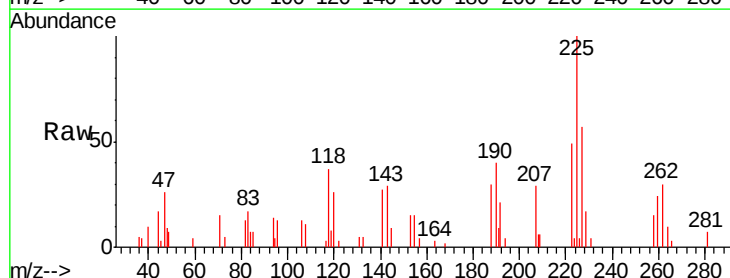
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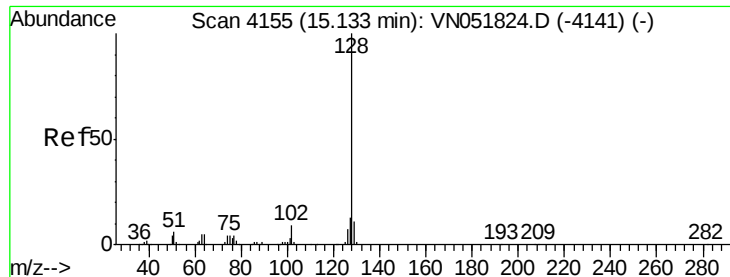
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#90
 Hexachlorobutadiene
 Concen: 2.25 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.0	0.0	117.0
227	62.2	0.0	127.0





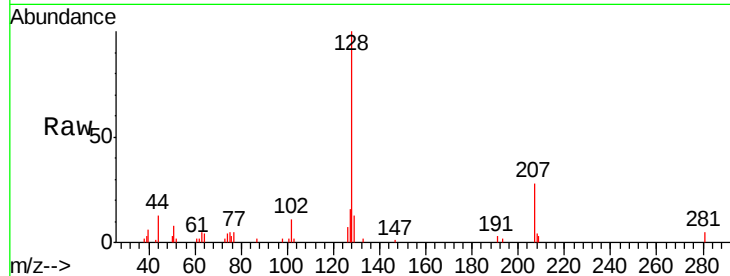
#91
Naphthalene
Concen: 9.50 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

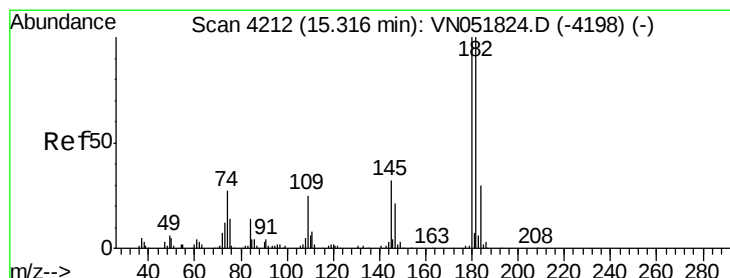
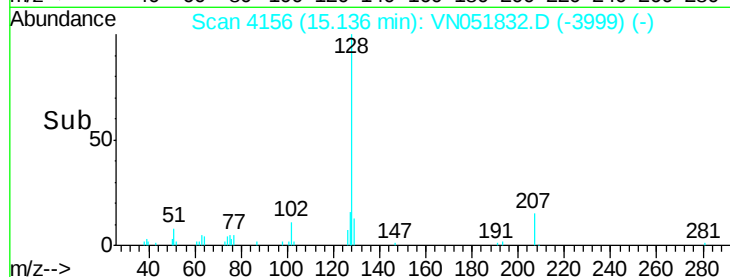
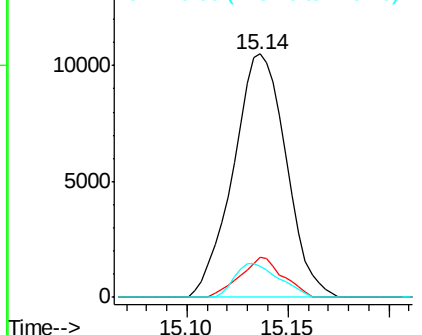
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.1	15.1
129	11.6	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/15/2018 11:27:57 AM

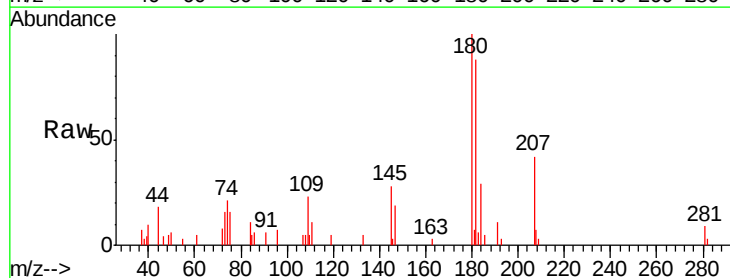


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 1.44 ug/l m
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.6	0.0	198.0
145	22.3	0.0	36.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

