

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

Quant Time: Oct 12 16:09:23 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	3.74	96	9480	1.62 ug/l	92
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	4693	11.68 ug/l	99
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	11838	1.77 ug/l #	79
20) Diisopropyl ether	5.96	45	40885	2.64 ug/l #	83
21) 1,1-Dichloroethane	5.85	63	14884	1.38 ug/l #	98
22) cis-1,2-Dichloroethene	6.82	96	10112	1.29 ug/l #	23
23) tert-Butyl Alcohol	4.79	59	2590	6.05 ug/l #	100
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	10885	5.65 ug/l #	21
31) 2,2-Dichloropropane	6.82	77	15169	1.40 ug/l	96
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	7.17	41	2994	1.18 ug/l	90
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	9.20	88	1460	21.75	ug/l #	25
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	10.43	43	1088	0.41	ug/l	93
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	19152	3.57	ug/l	76
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	14.91	180	7516	1.13	ug/l	96

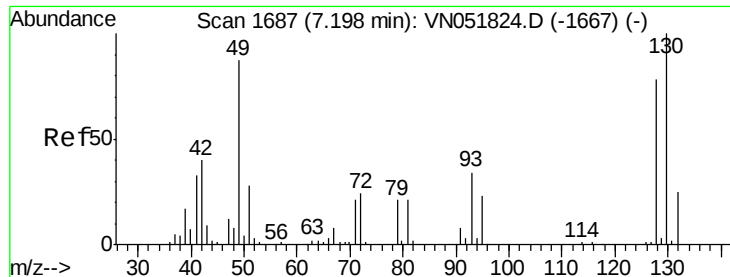
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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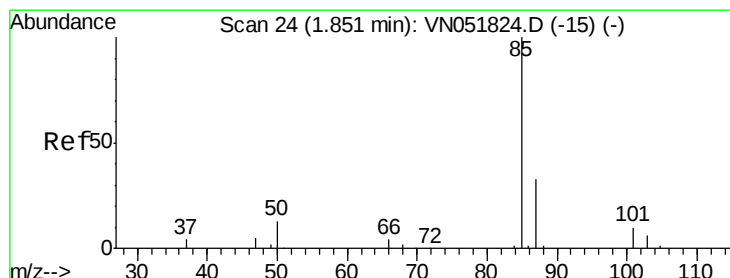
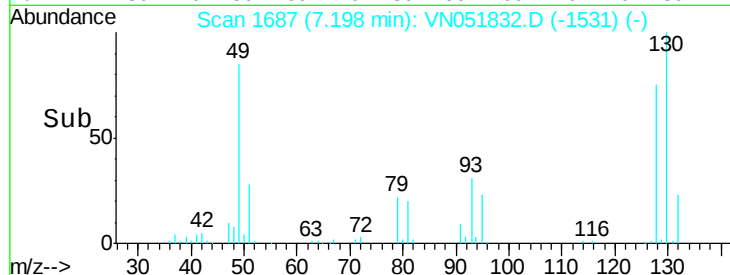
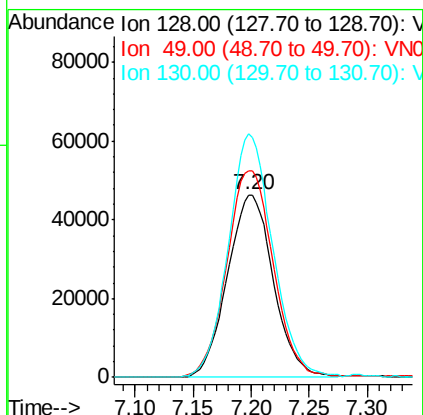
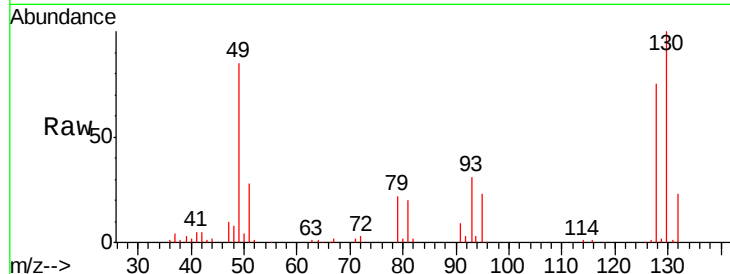
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

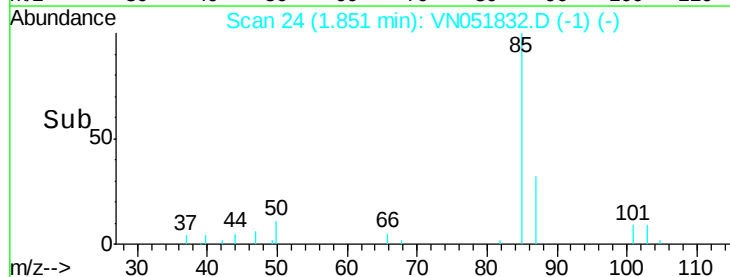
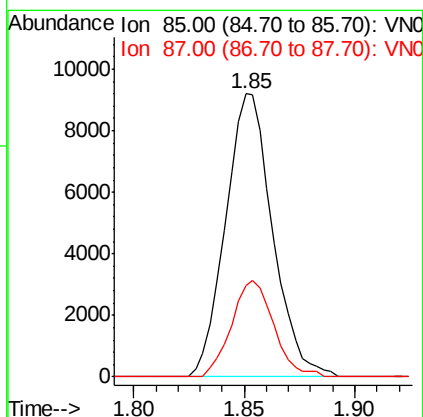
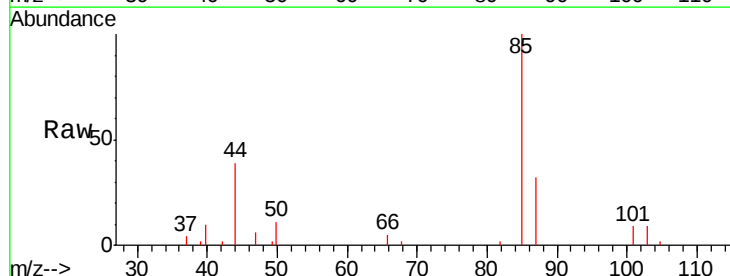
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

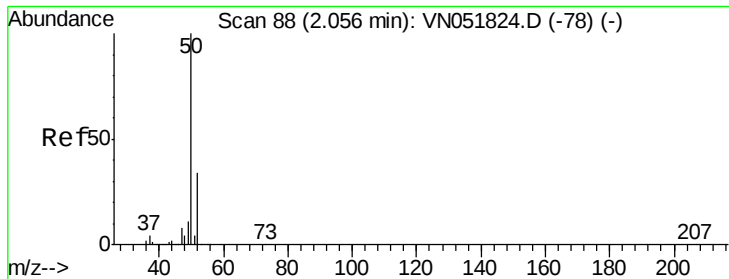
Tgt Ion: 128 Resp: 127184
 Ion Ratio Lower Upper
 128 100
 49 115.2 0.0 403.3
 130 129.4 0.0 326.0



#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 :

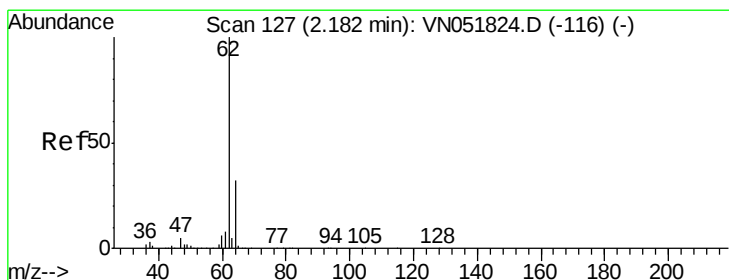
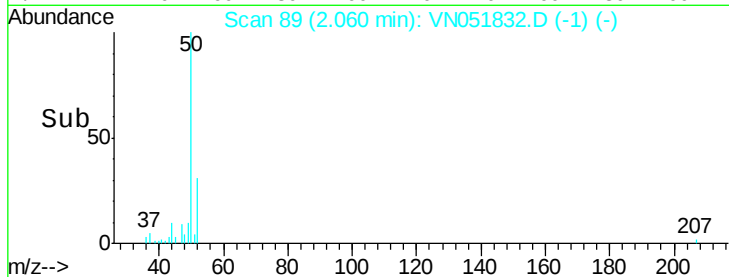
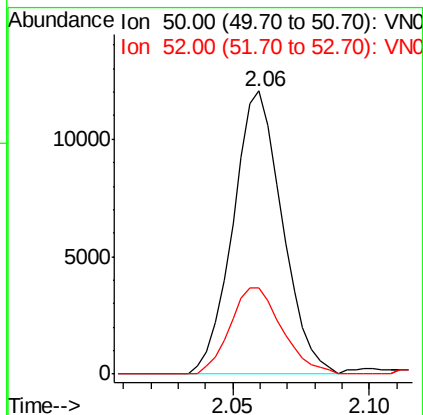
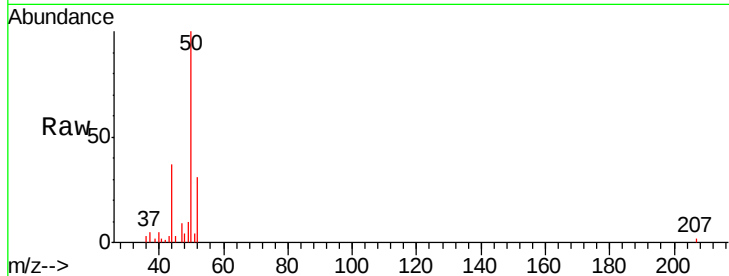
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 50 Resp: 15091

Ion Ratio Lower Upper

50 100

52 30.6 27.2 40.8



#4

Vinyl Chloride

Concen: 2.81 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051832.D

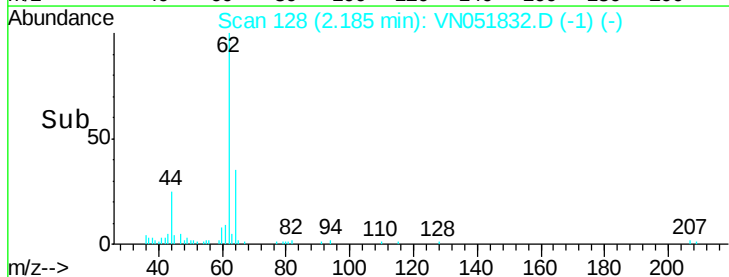
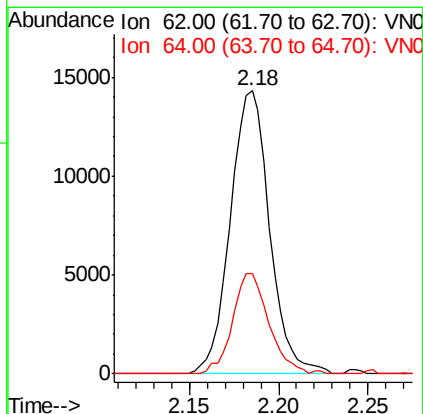
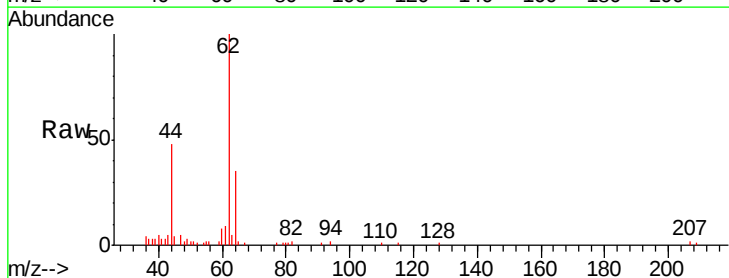
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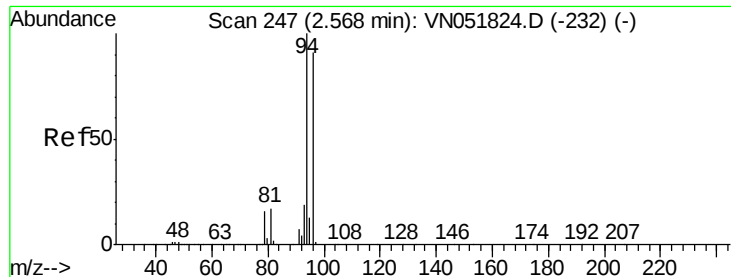
Tgt Ion: 62 Resp: 21902

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

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

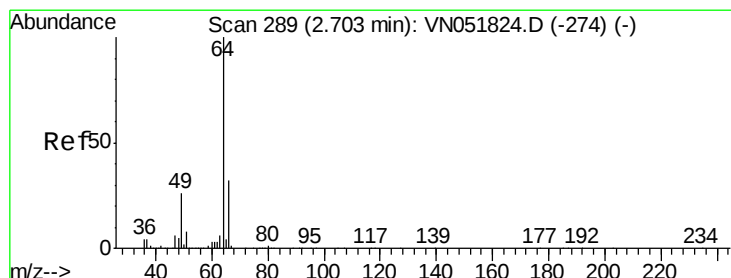
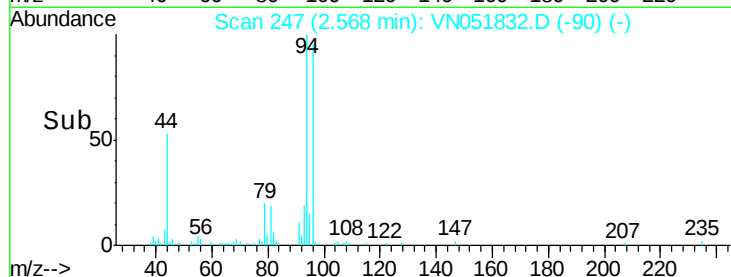
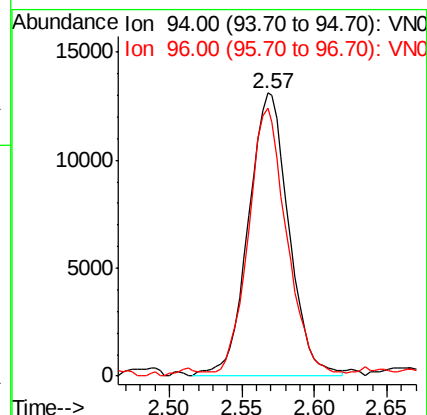
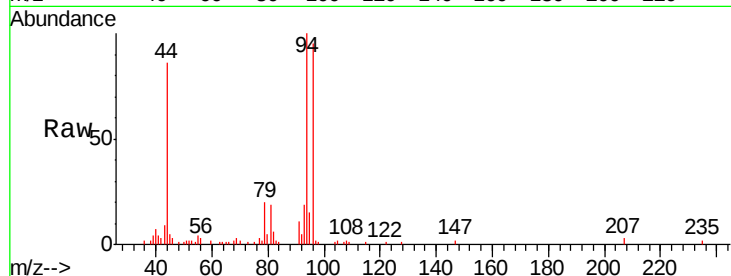
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 94 Resp: 25493

Ion Ratio Lower Upper

94 100

96 93.4 66.4 99.6



#6

Chloroethane

Concen: 2.91 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051832.D

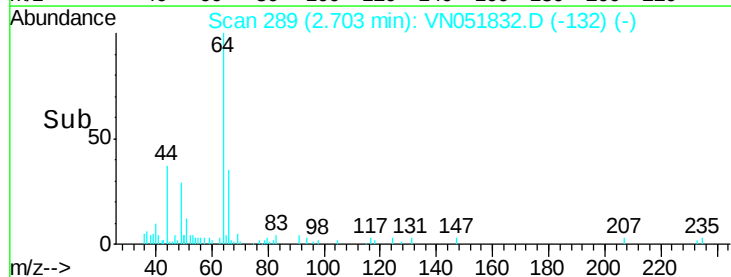
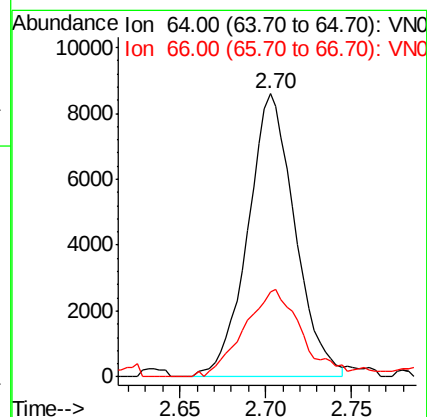
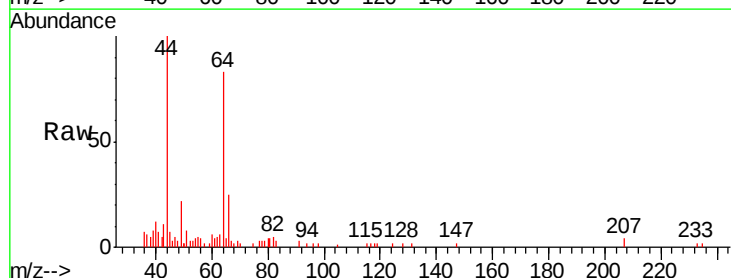
Acq: 12 Oct 2018 15:01

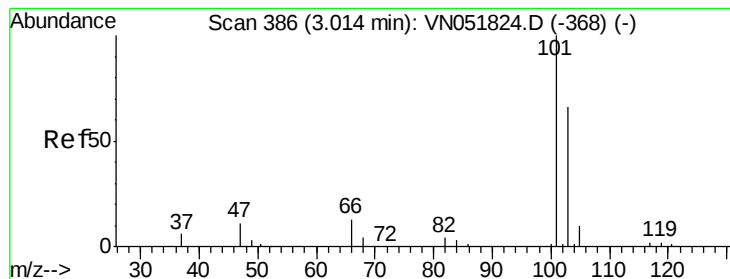
Tgt Ion: 64 Resp: 16339

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

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

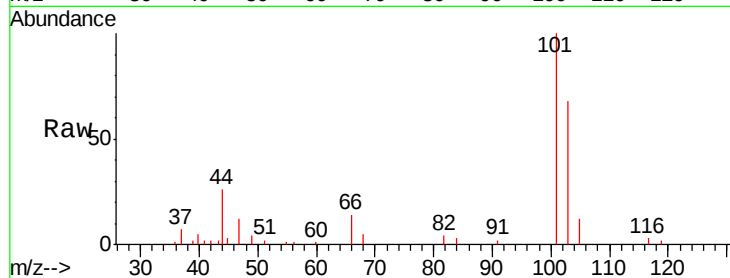
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 101 Resp: 28393

Ion Ratio Lower Upper

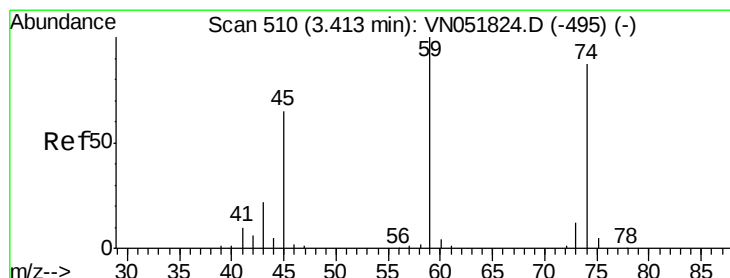
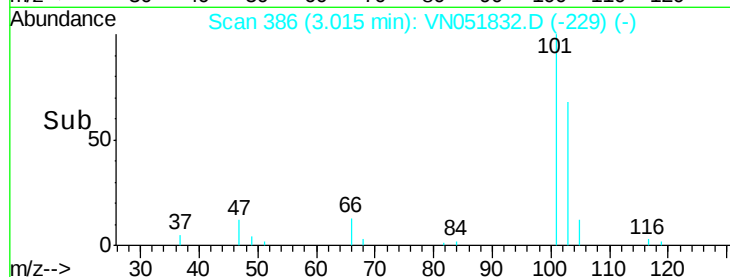
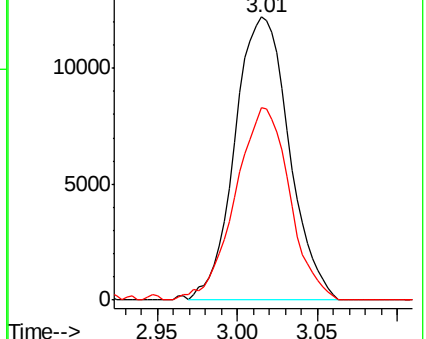
101 100

103 67.9 54.8 82.2



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

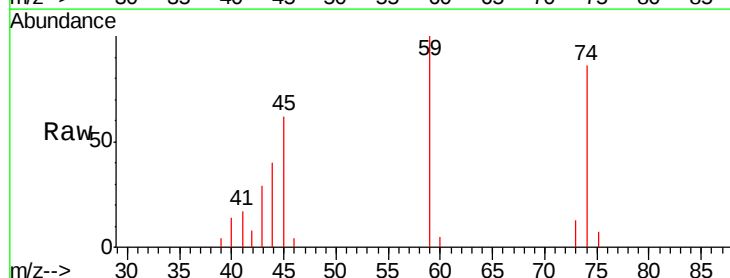
Acq: 12 Oct 2018 15:01

Tgt Ion: 74 Resp: 8838

Ion Ratio Lower Upper

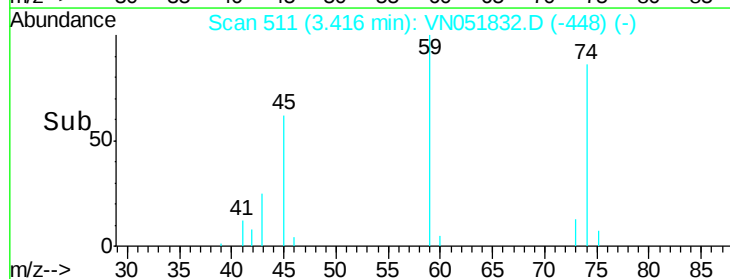
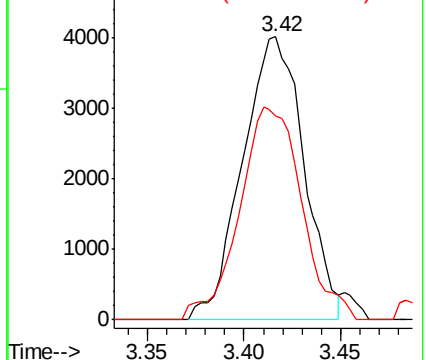
74 100

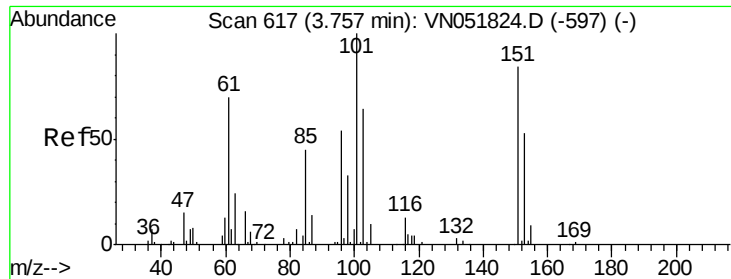
45 76.4 20.7 186.5



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

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ClientSampleId :

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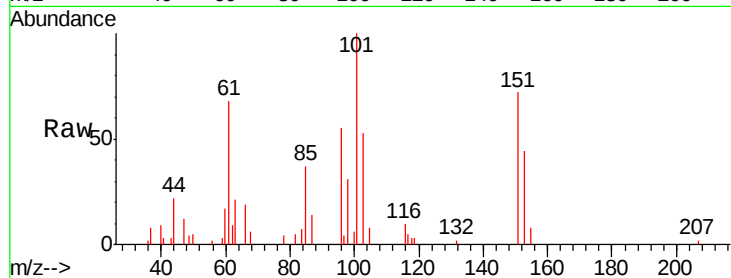
Tgt Ion:101 Resp: 18173

Ion Ratio Lower Upper

101 100

85 40.6 0.0 46.0

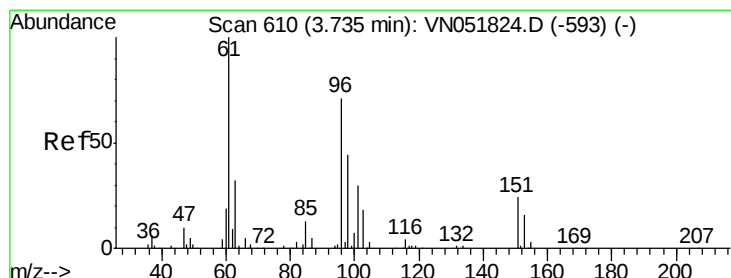
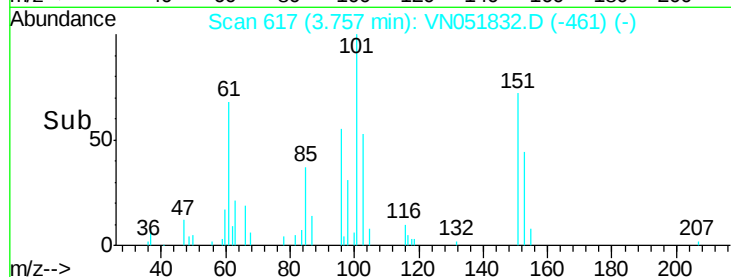
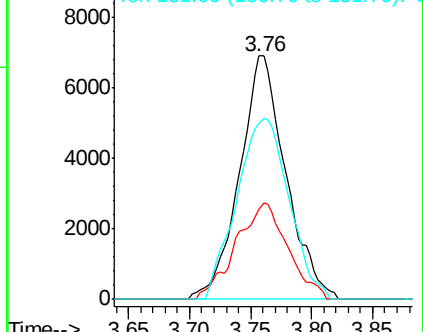
151 84.1 0.0 82.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 1.62 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

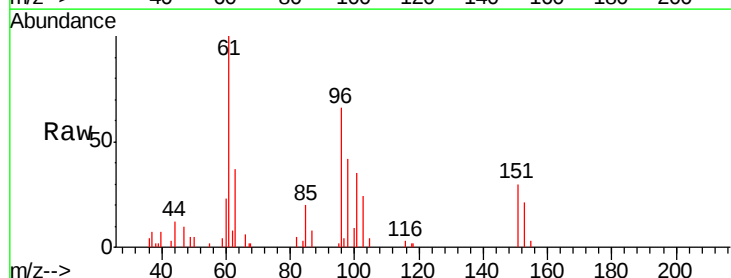
Tgt Ion: 96 Resp: 9480

Ion Ratio Lower Upper

96 100

61 152.6 133.0 199.6

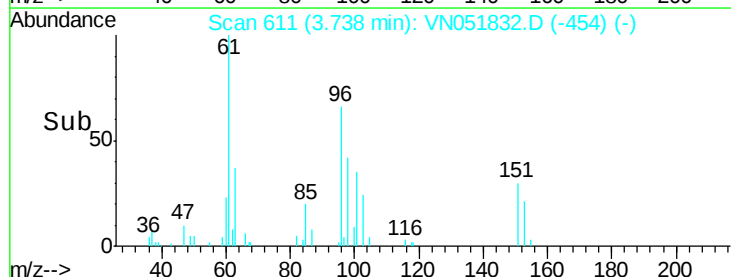
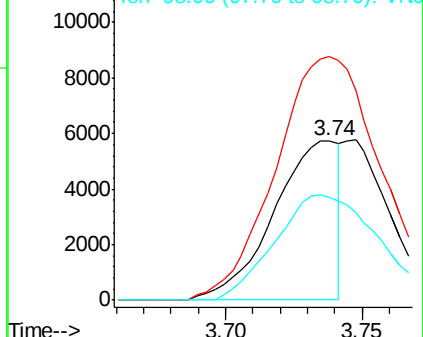
98 64.1 52.6 78.8

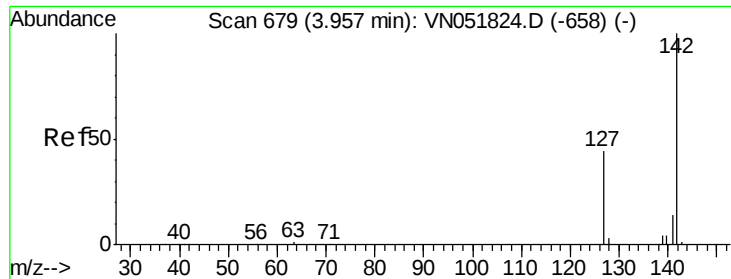


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

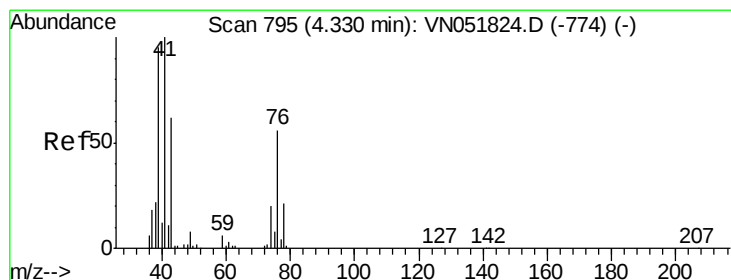
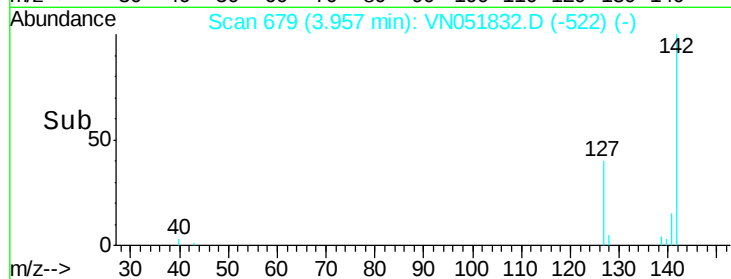
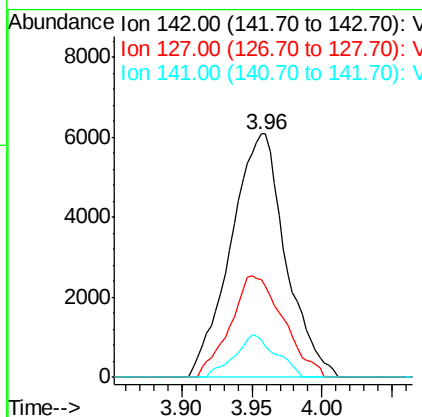
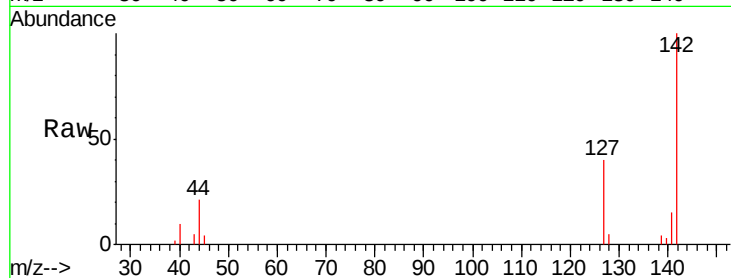




#11
Methyl Iodide
Concen: 1.94 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

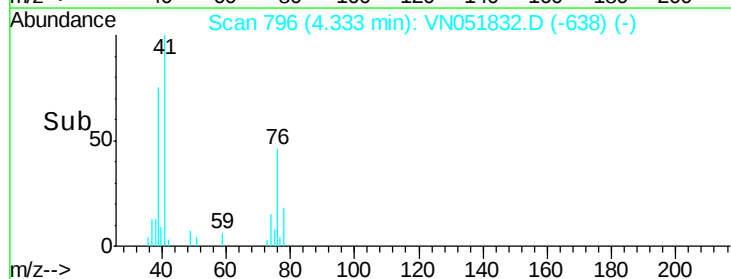
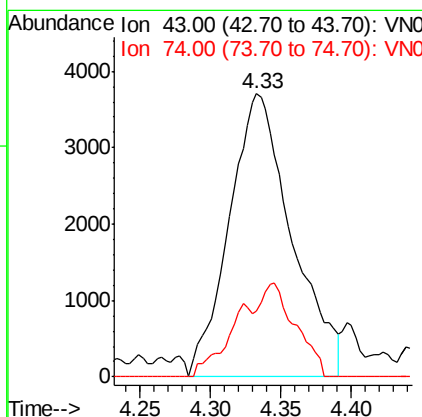
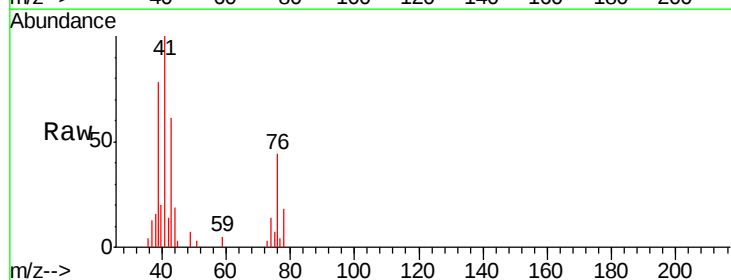
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

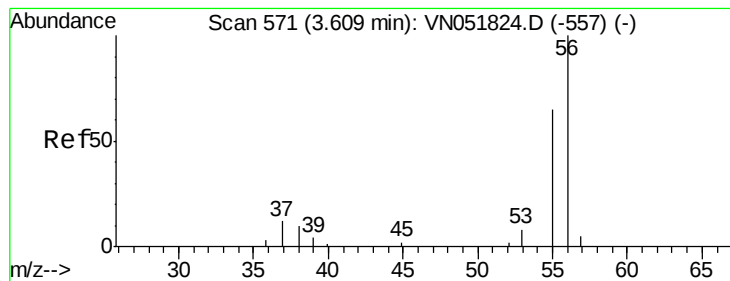
Tgt Ion:142 Resp: 16521
Ion Ratio Lower Upper
142 100
127 40.2 19.7 59.0
141 15.4 6.3 18.9



#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: 43 Resp: 11488
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 :

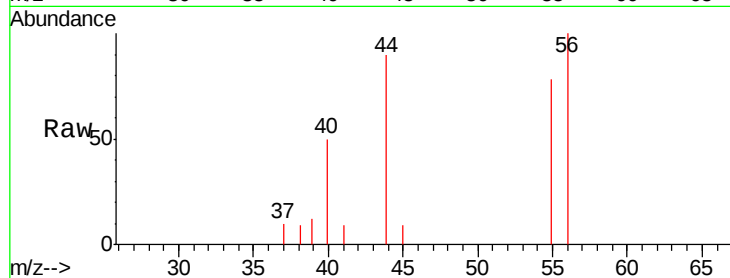
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 56 Resp: 4542

Ion Ratio Lower Upper

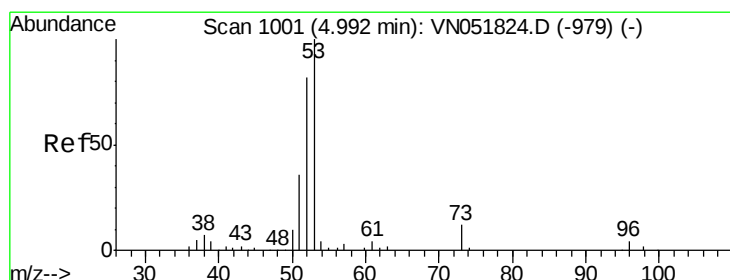
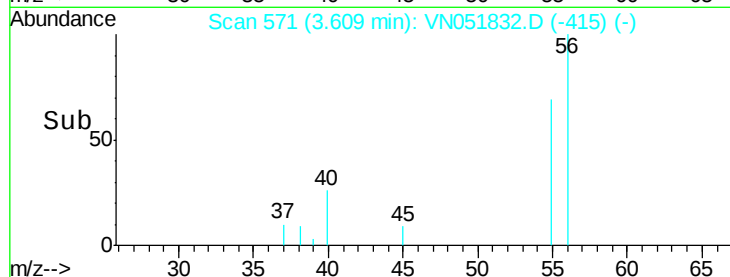
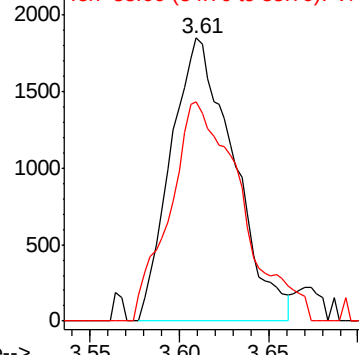
56 100

55 88.4 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#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

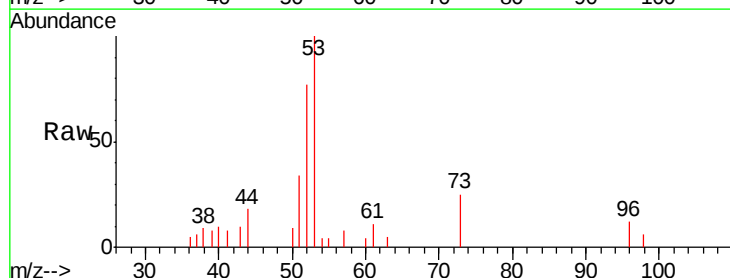
Tgt Ion: 53 Resp: 19206

Ion Ratio Lower Upper

53 100

52 85.9 18.3 54.8#

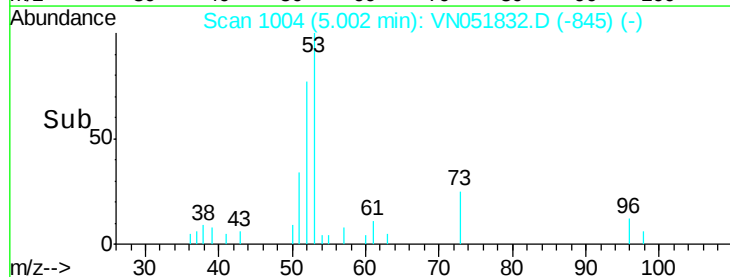
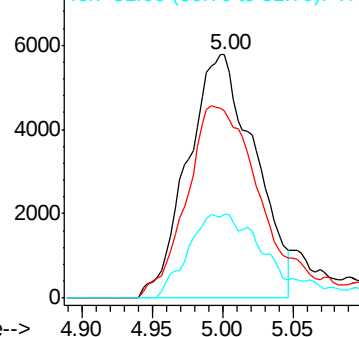
51 17.0 19.7 59.1#

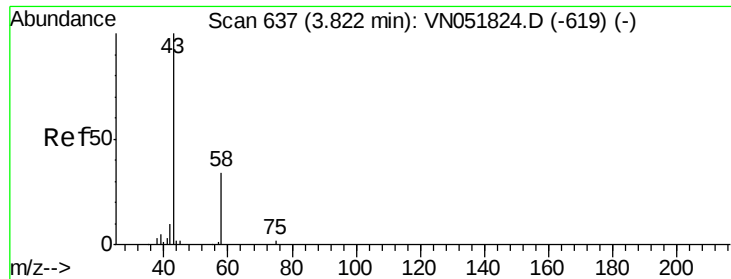


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

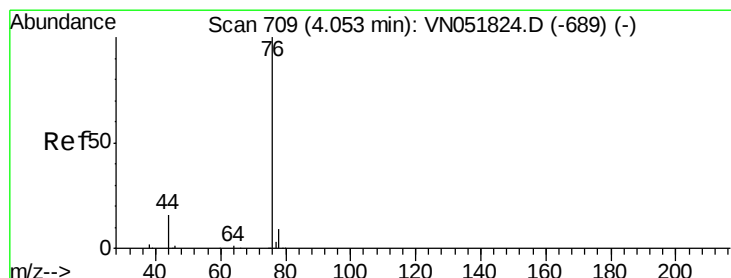
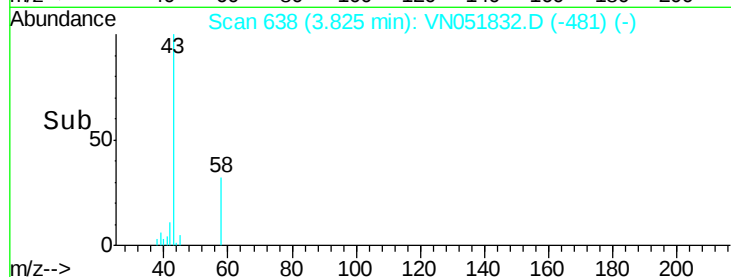
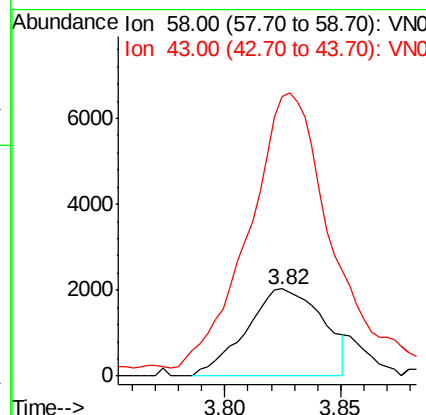
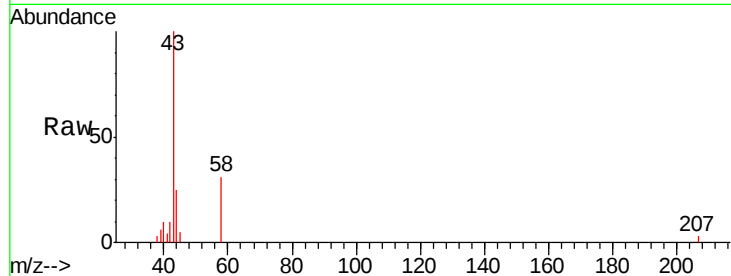




#15
Acetone
Concen: 11.68 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

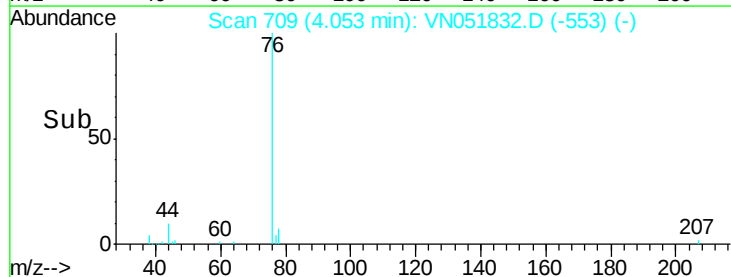
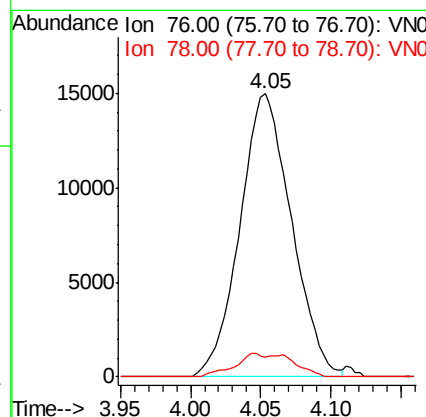
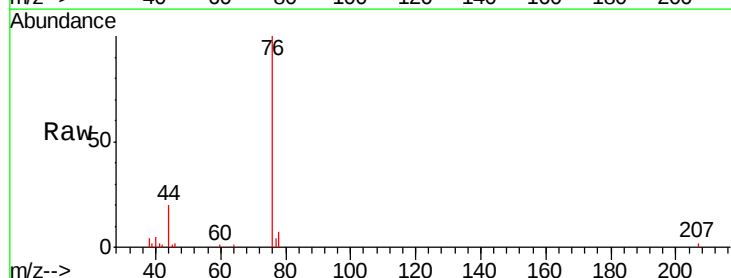
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

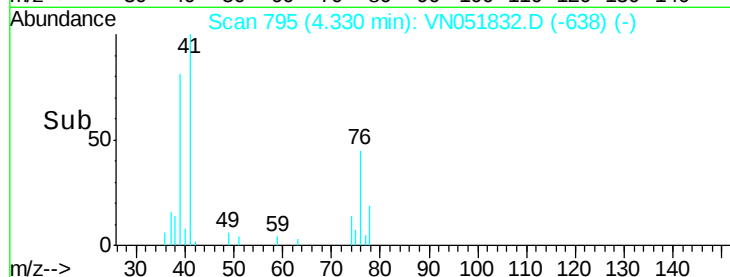
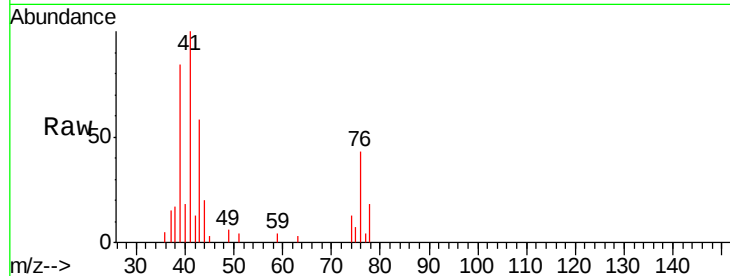
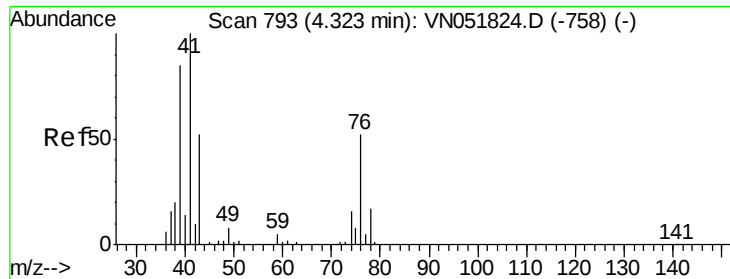
Tgt Ion: 58 Resp: 4693
Ion Ratio Lower Upper
58 100
43 292.0 232.2 348.2



#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

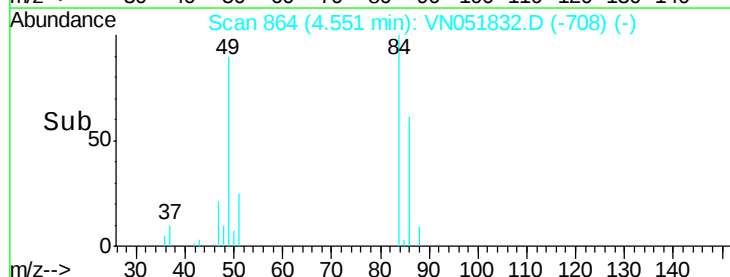
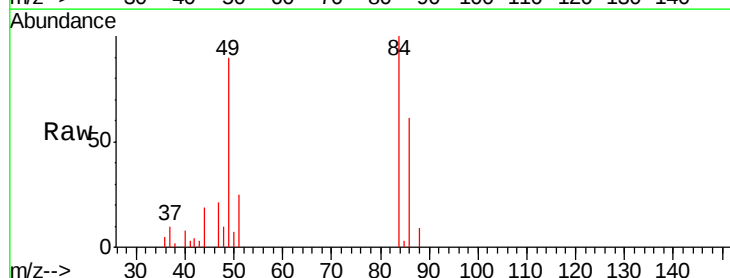
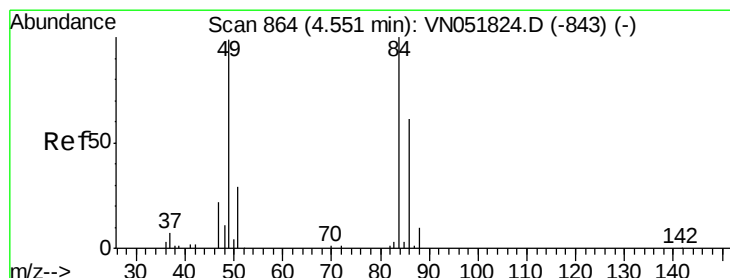
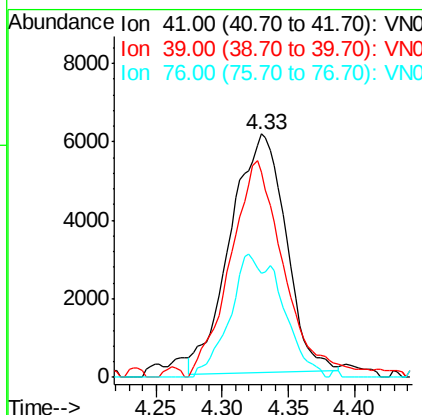




#17
 Allyl chloride
 Concen: 2.54 ug/l
 RT: 4.33 min Scan# 795
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

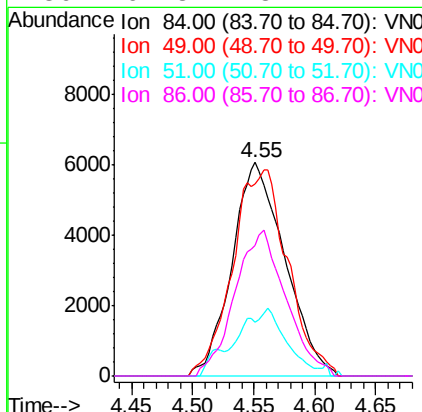
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

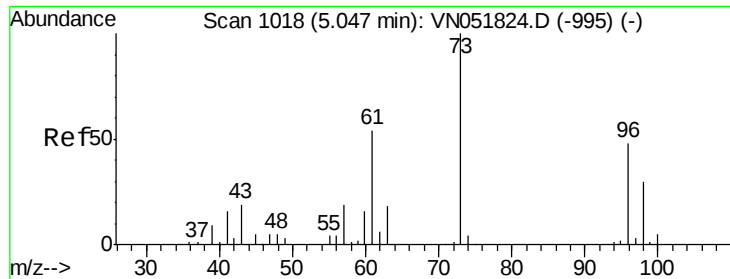
Tgt Ion: 41 Resp: 17626
 Ion Ratio Lower Upper
 41 100
 39 87.9 32.6 97.8
 76 44.9 20.2 60.5



#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: 84 Resp: 18232
 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

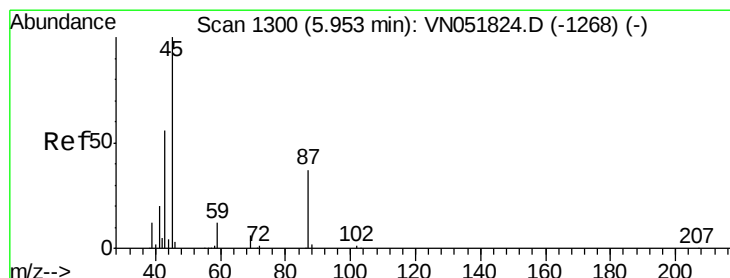
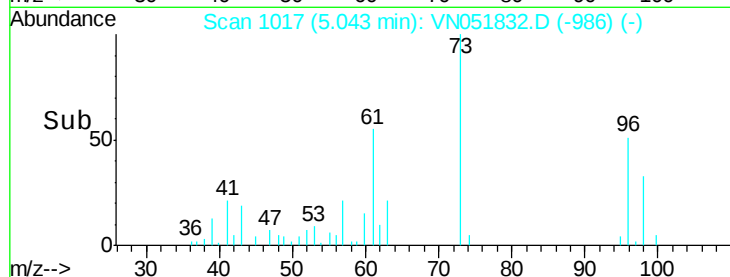
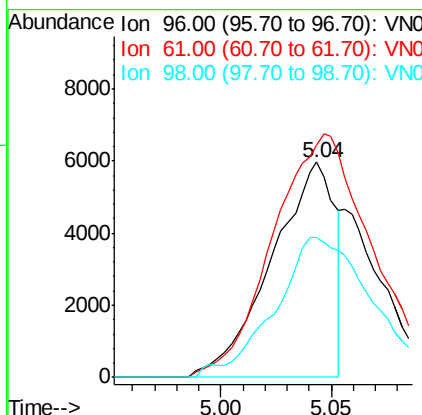
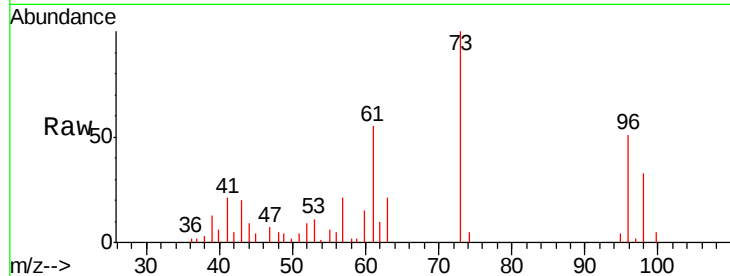




#19
trans-1,2-Dichloroethene
Concen: 1.77 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

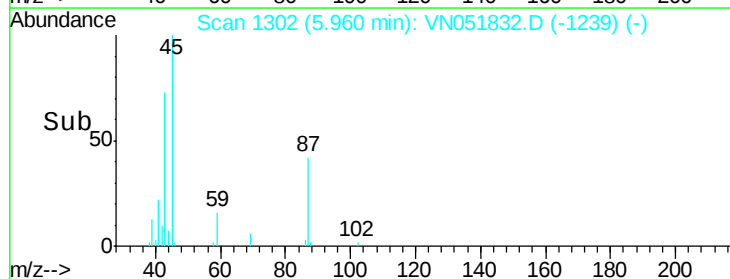
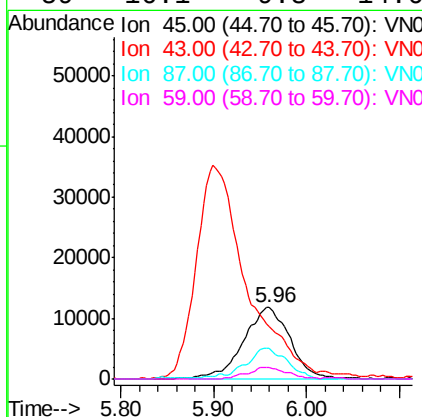
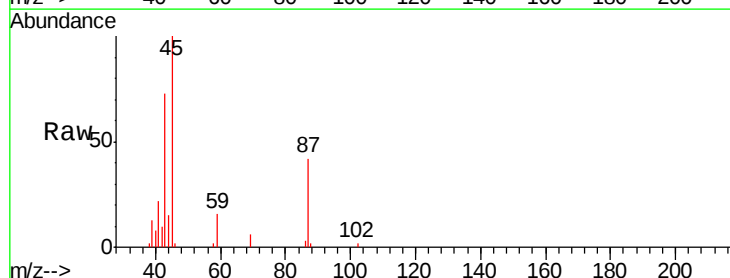
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

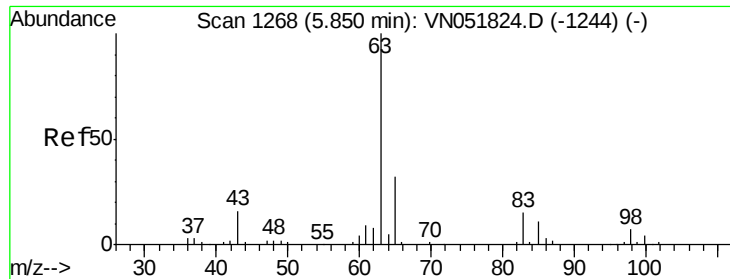
Tgt Ion: 96 Resp: 11838
Ion Ratio Lower Upper
96 100
61 108.1 112.3 168.5#
98 64.9 47.1 70.7



#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: 1.38 ug/l

RT: 5.85 min Scan# 1268

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

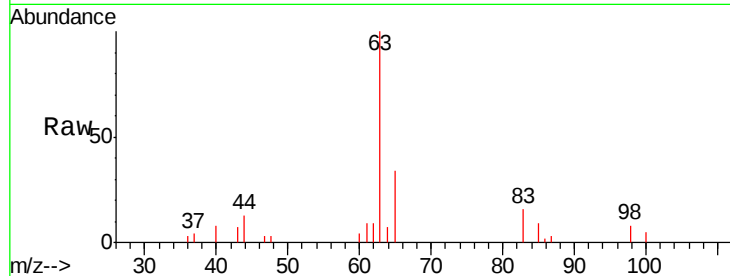
Tgt Ion: 63 Resp: 14884

Ion Ratio Lower Upper

63 100

98 8.3 4.1 12.3

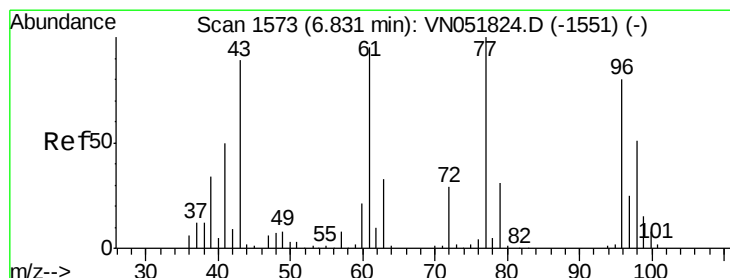
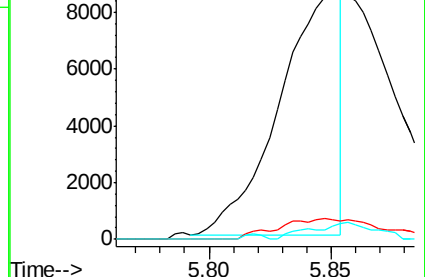
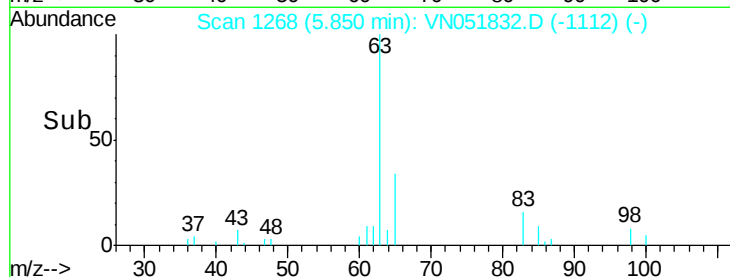
100 5.3 1.6 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VN051832.D (-1112) (-)

Ion 98.00 (97.70 to 98.70): VN051832.D (-1112) (-)

Ion 100.00 (99.70 to 100.70): VN051832.D (-1112) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.29 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VN051832.D

Acq: 12 Oct 2018 15:01

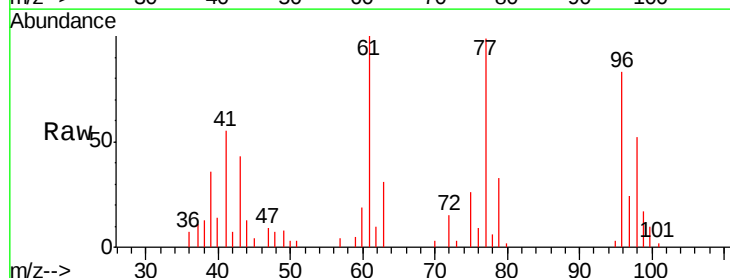
Tgt Ion: 96 Resp: 10112

Ion Ratio Lower Upper

96 100

61 250.7 124.5 186.7#

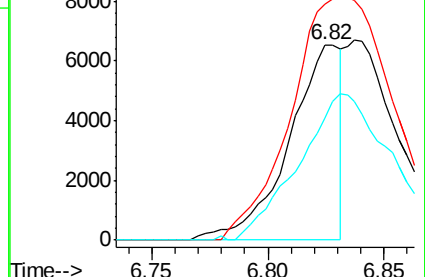
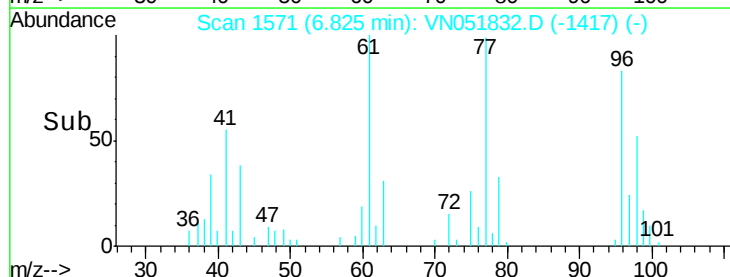
98 131.8 51.9 77.9#

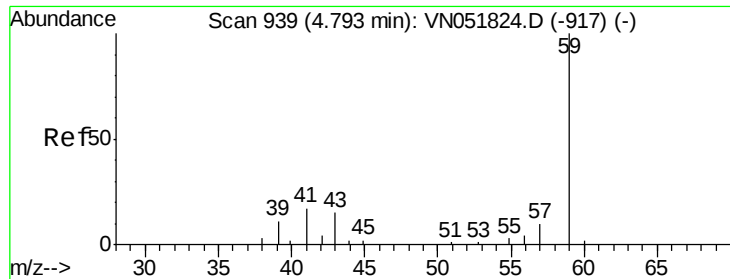


Abundance Ion 96.00 (95.70 to 96.70): VN051832.D (-1417) (-)

Ion 61.00 (60.70 to 61.70): VN051832.D (-1417) (-)

Ion 98.00 (97.70 to 98.70): VN051832.D (-1417) (-)

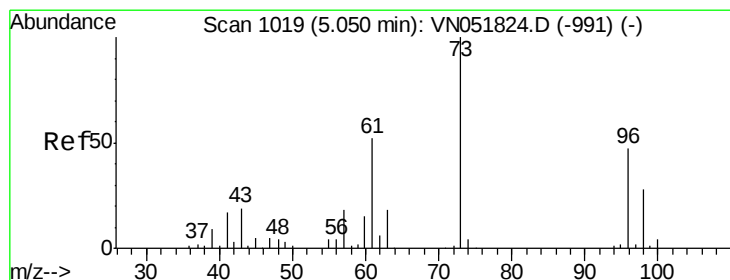
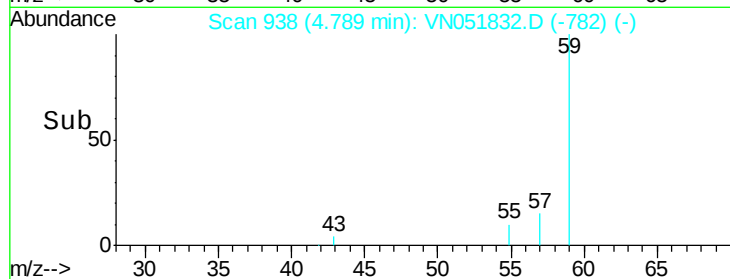
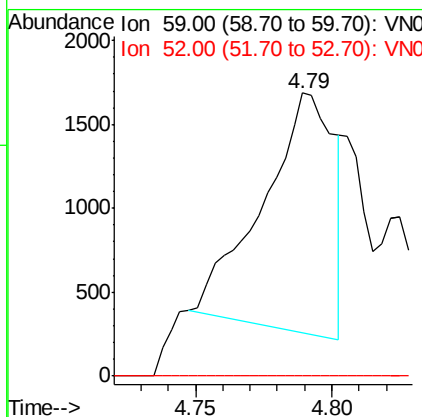
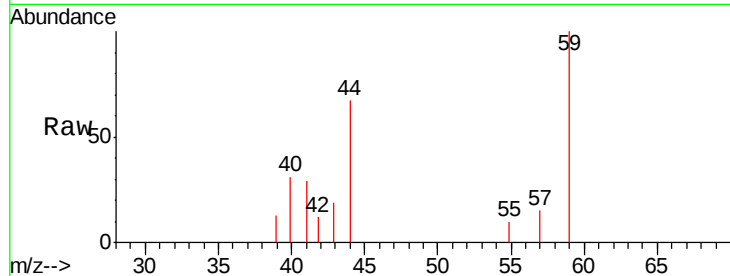




#23
 tert-Butyl Alcohol
 Concen: 6.05 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

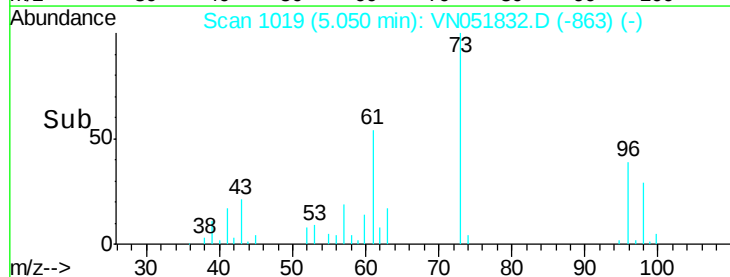
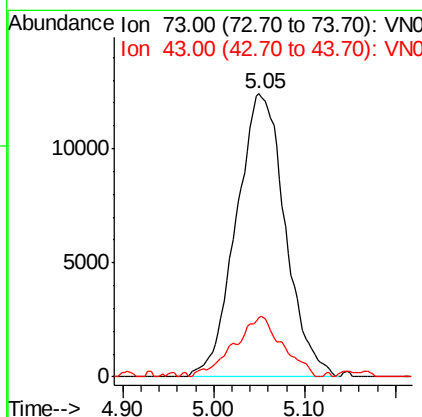
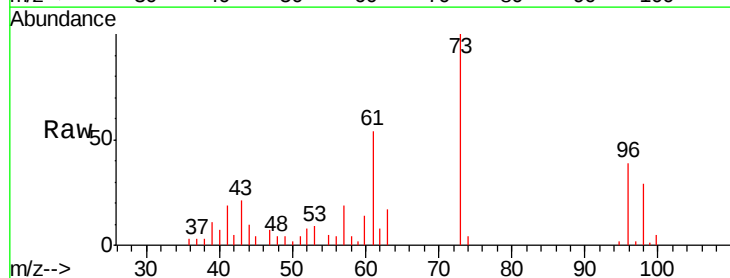
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

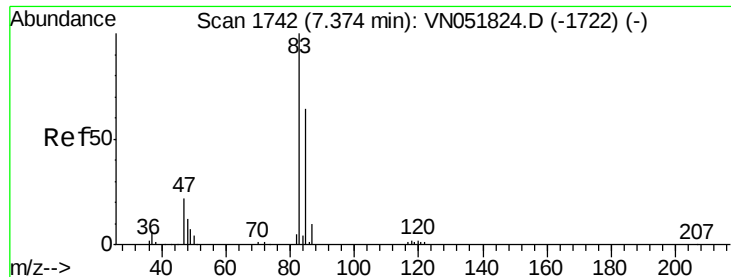
Tgt Ion: 59 Resp: 2590
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#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#

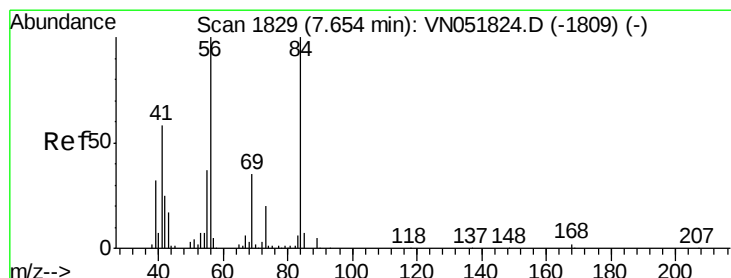
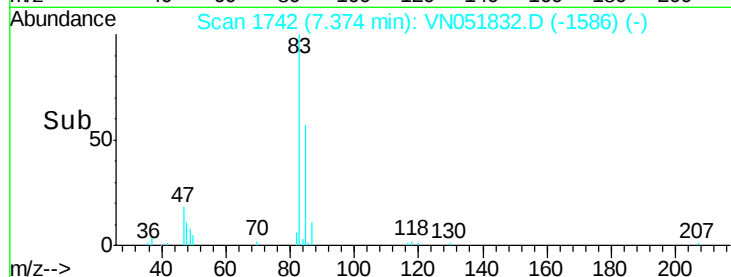
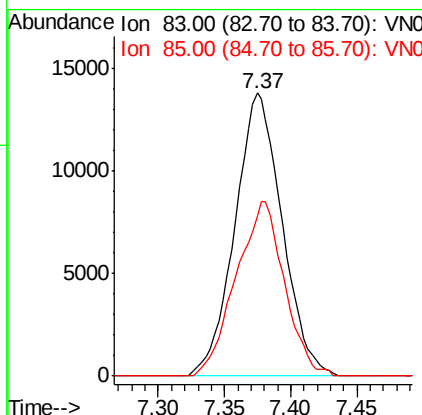
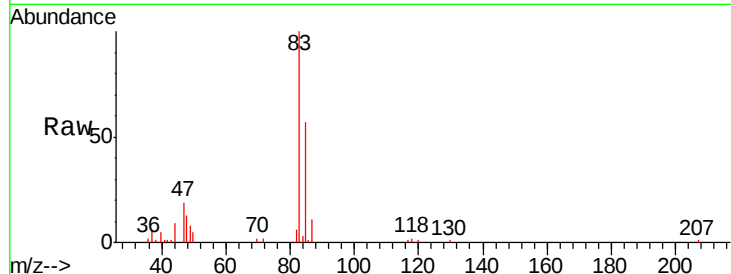




#25
Chloroform
Concen: 2.66 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

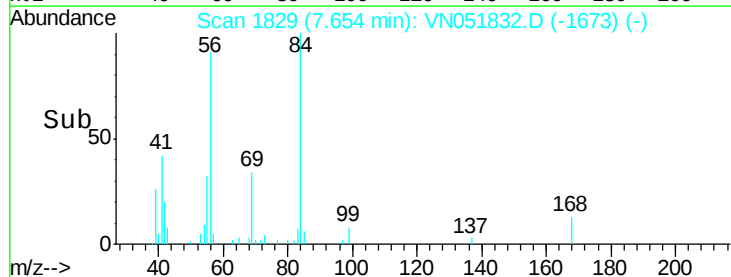
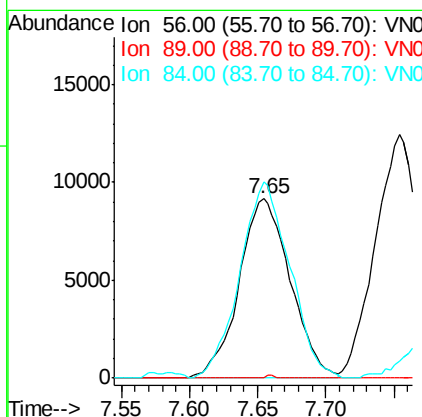
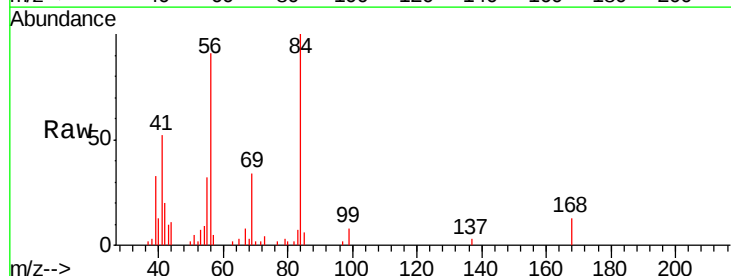
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

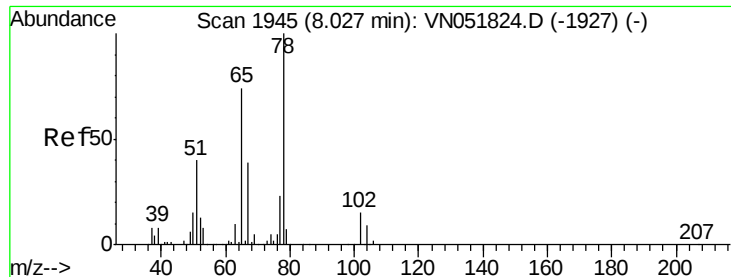
Tgt Ion: 83 Resp: 34169
Ion Ratio Lower Upper
83 100
85 56.7 54.6 82.0



#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 :

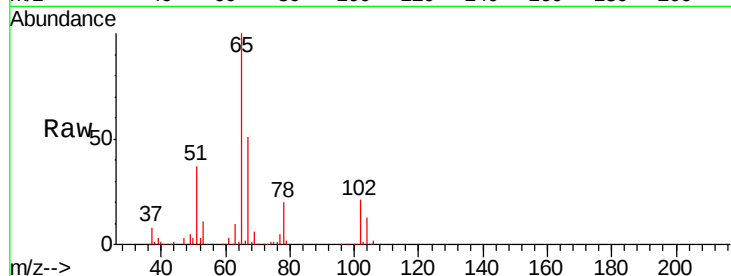
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 65 Resp: 239205

Ion Ratio Lower Upper

65 100

67 52.4 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051832.D (-1789) (-)

Ion 67.00 (66.70 to 67.70): VN051832.D (-1789) (-)

8.03

100000

80000

60000

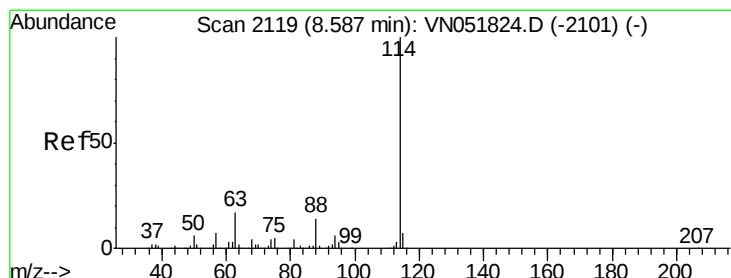
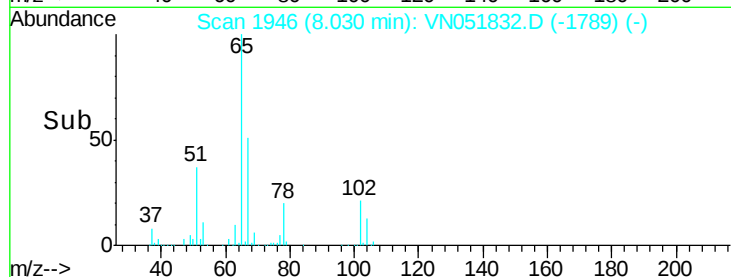
40000

20000

0

8.00 8.10

Time-->



#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

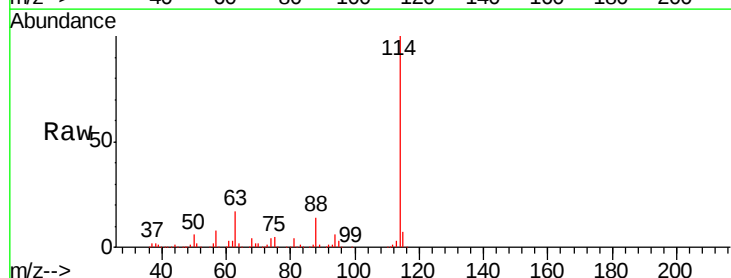
Tgt Ion: 114 Resp: 715417

Ion Ratio Lower Upper

114 100

63 17.0 16.2 24.2

88 14.0 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051832.D (-1963) (-)

Ion 63.00 (62.70 to 63.70): VN051832.D (-1963) (-)

Ion 88.00 (87.70 to 88.70): VN051832.D (-1963) (-)

8.59

400000

300000

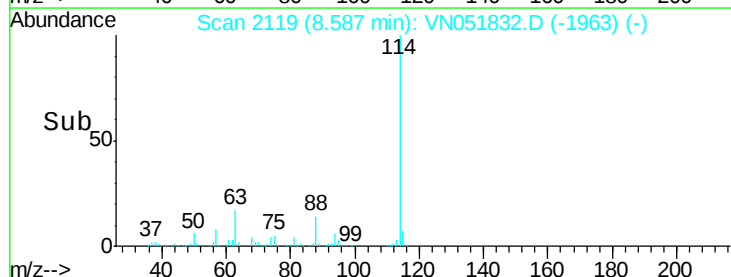
200000

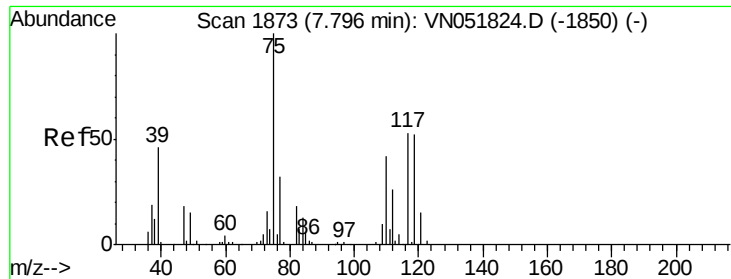
100000

0

8.50 8.55 8.60 8.65 8.70

Time-->

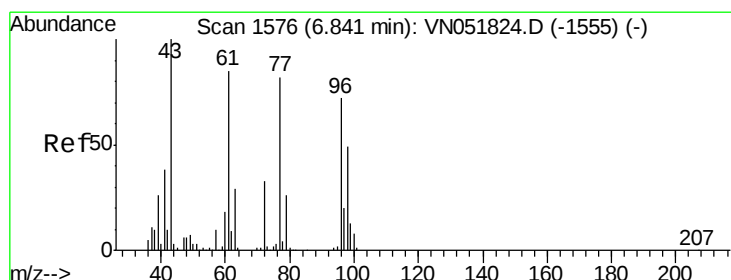
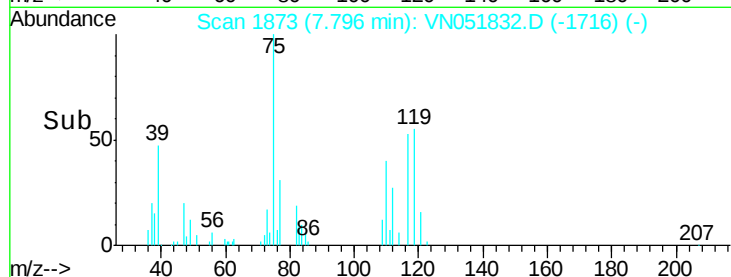
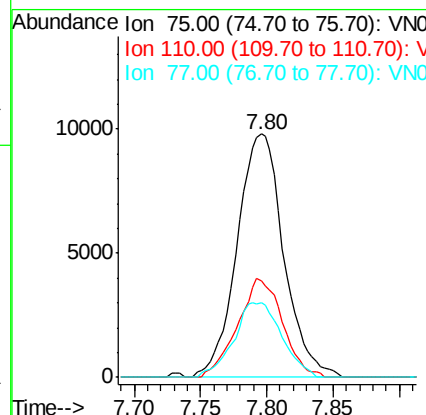
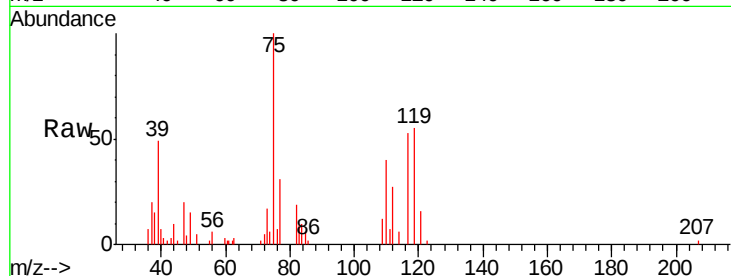




#29
 1,1-Dichloropropene
 Concen: 2.60 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

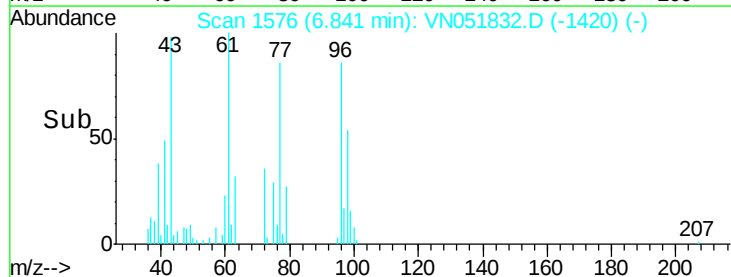
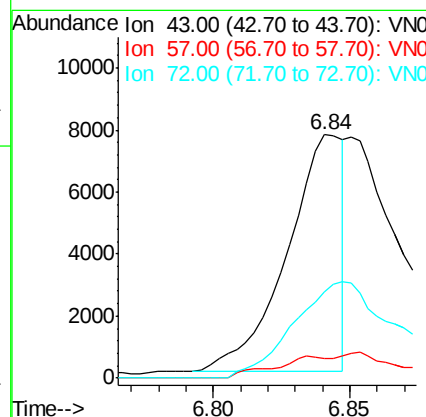
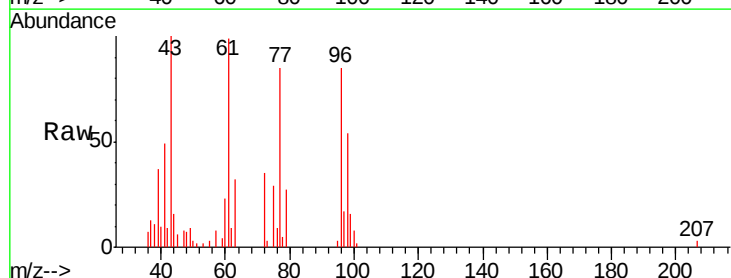
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

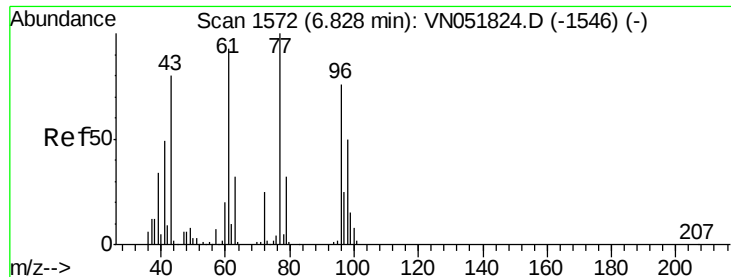
Tgt Ion: 75 Resp: 23958
 Ion Ratio Lower Upper
 75 100
 110 39.1 0.0 70.8
 77 31.6 0.0 61.6



#30
 2-Butanone
 Concen: 5.65 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion: 43 Resp: 10885
 Ion Ratio Lower Upper
 43 100
 57 10.8 4.5 6.7#
 72 74.5 21.5 32.3#





#31

2,2-Dichloropropane

Concen: 1.40 ug/l

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 :

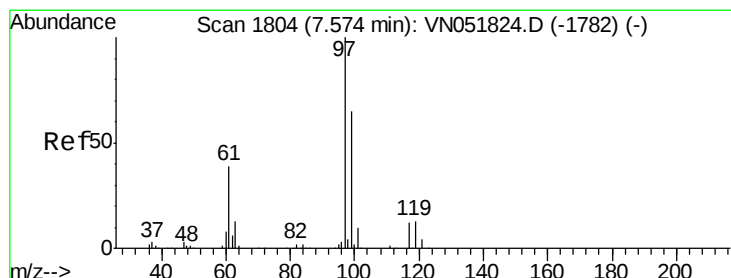
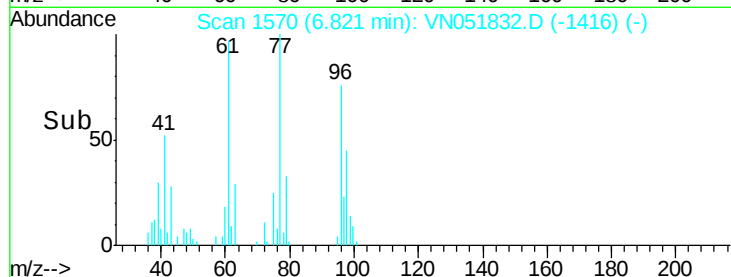
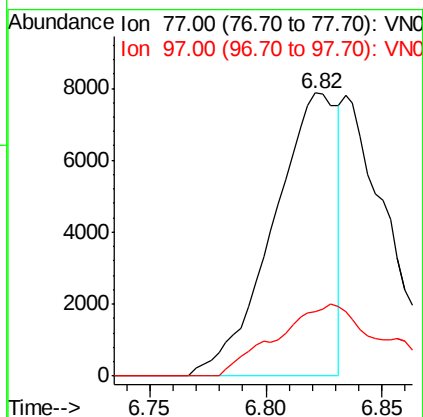
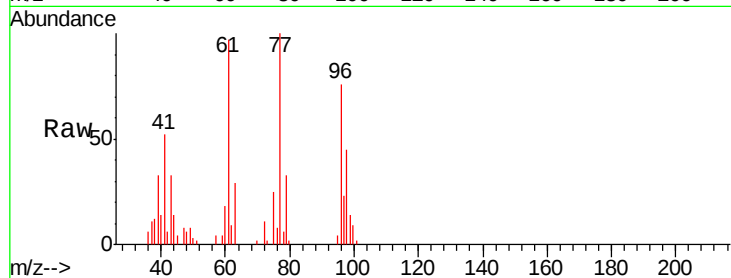
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 77 Resp: 15169

Ion Ratio Lower Upper

77 100

97 16.6 12.0 18.0



#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

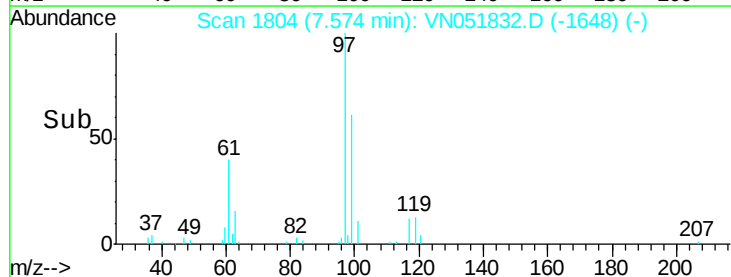
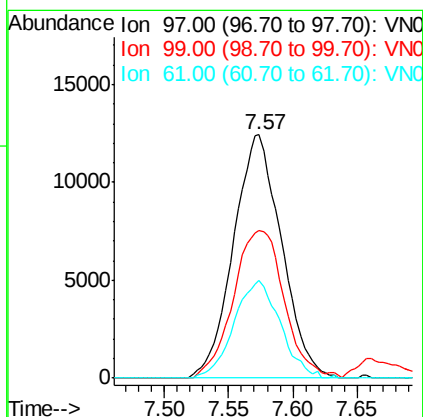
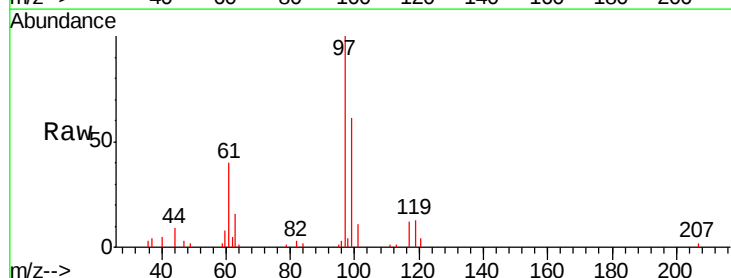
Tgt Ion: 97 Resp: 32292

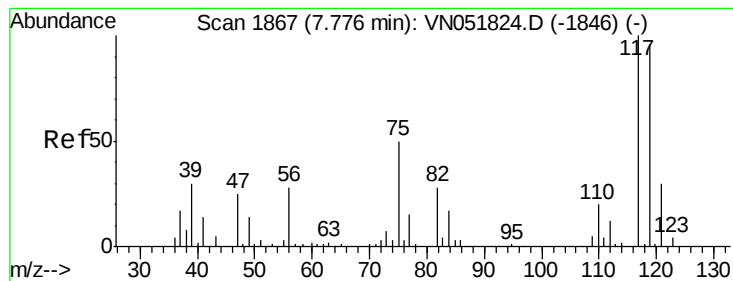
Ion Ratio Lower Upper

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

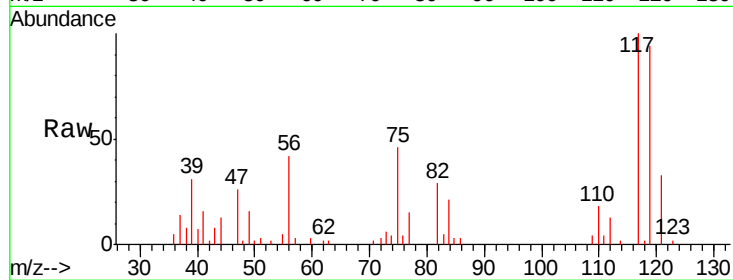
Tgt Ion: 117 Resp: 26820

Ion Ratio Lower Upper

117 100

119 93.6 85.1 127.7

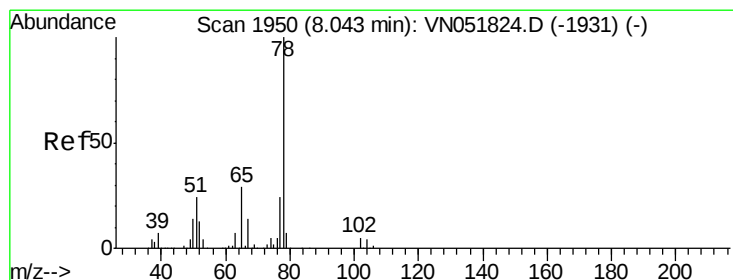
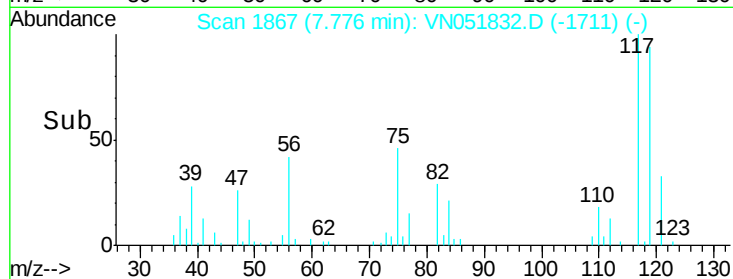
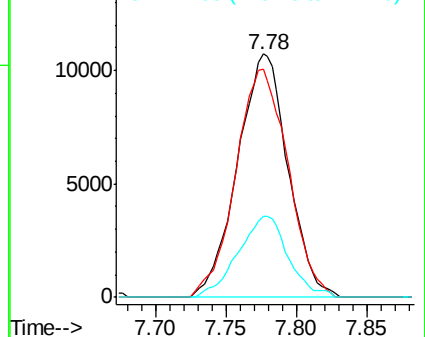
121 33.0 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#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

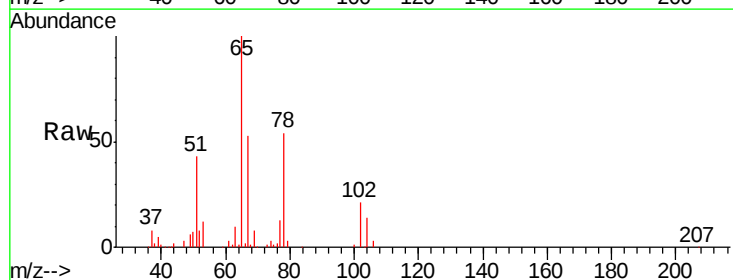
Tgt Ion: 78 Resp: 71213

Ion Ratio Lower Upper

78 100

77 24.5 18.8 28.2

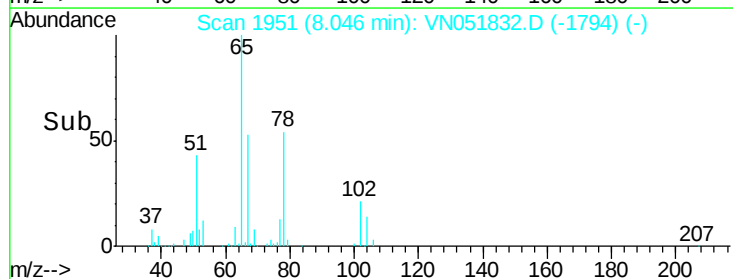
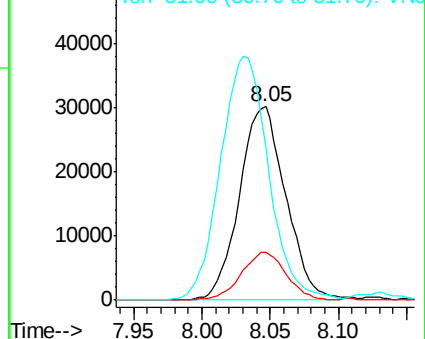
51 77.8 46.2 69.4#

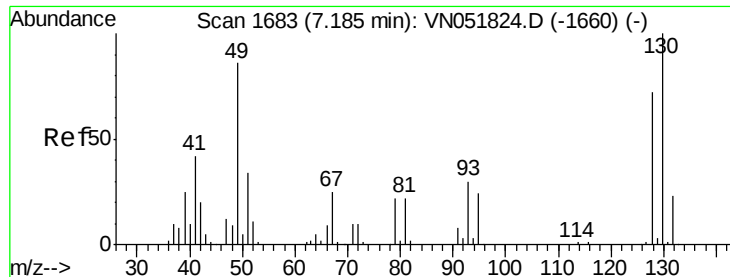


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

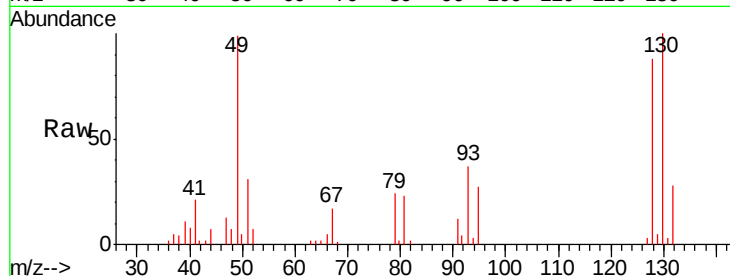




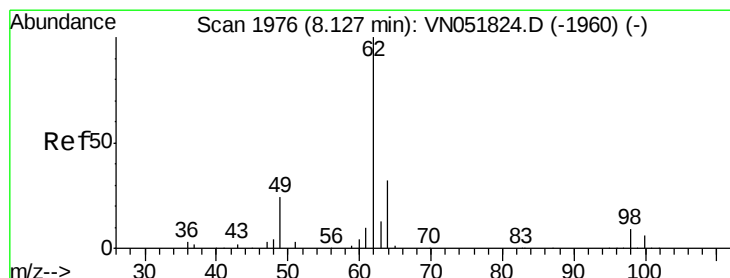
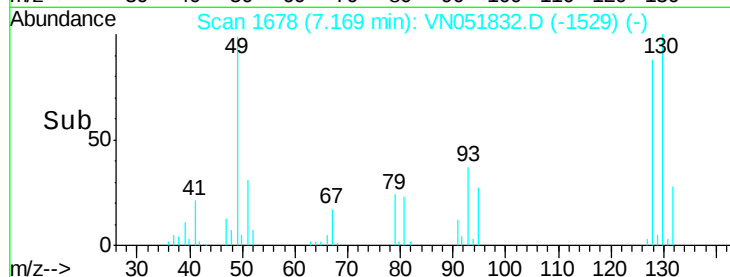
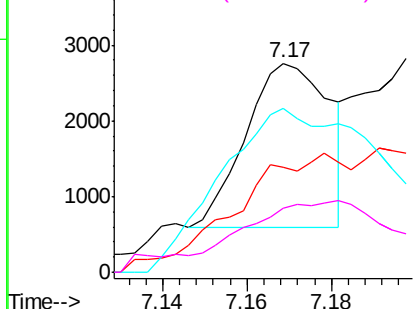
#35
Methacrylonitrile
Concen: 1.18 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.02 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

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

Tgt Ion:	41	Resp:	2994
Ion	Ratio	Lower	Upper
41	100		
39	47.2	22.6	67.7
67	68.3	28.9	86.8
52	29.0	11.3	33.9

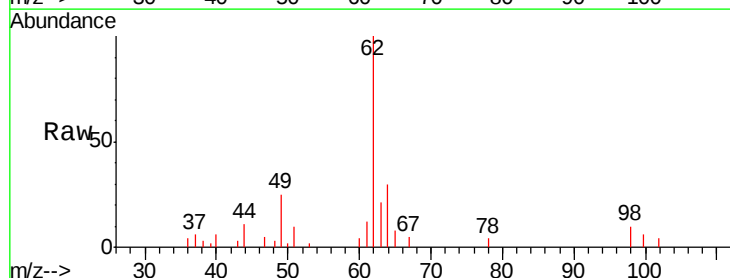


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

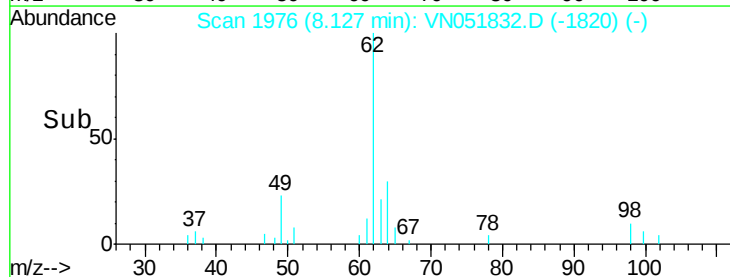
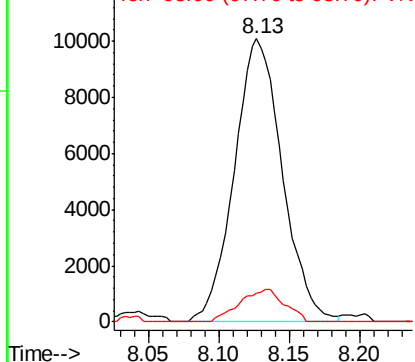


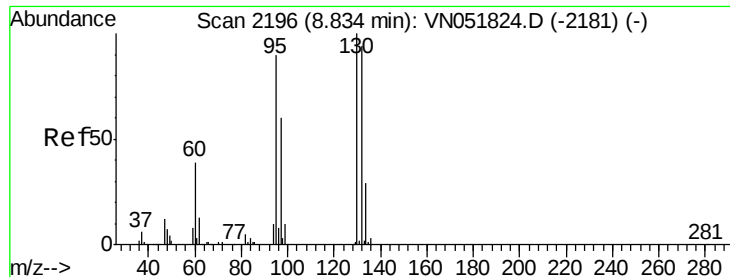
#36
1,2-Dichloroethane
Concen: 2.75 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

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



Abundance Ion 62.00 (61.70 to 62.70): VN0
Ion 98.00 (97.70 to 98.70): VN0





#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 :

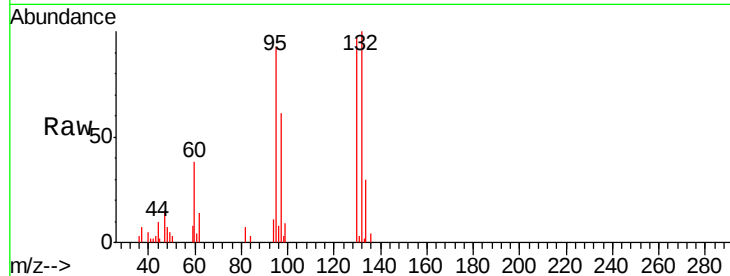
LOD-MDL-WATER-01-QT4-2018

Tgt Ion:130 Resp: 21474

Ion Ratio Lower Upper

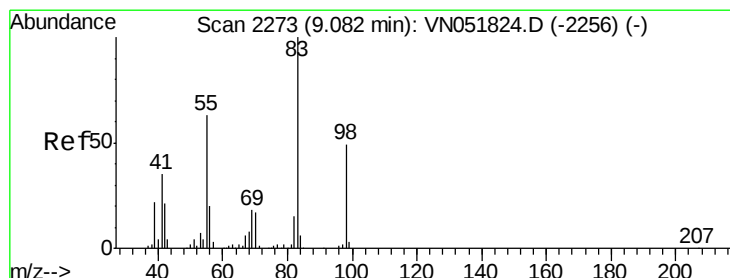
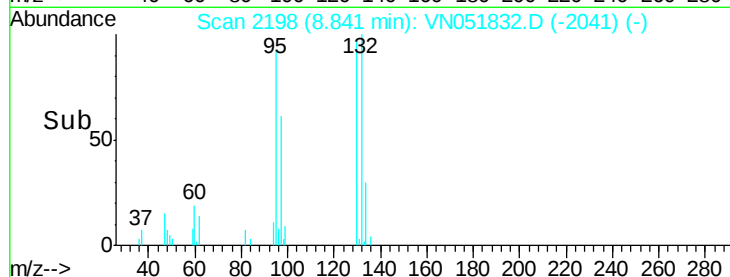
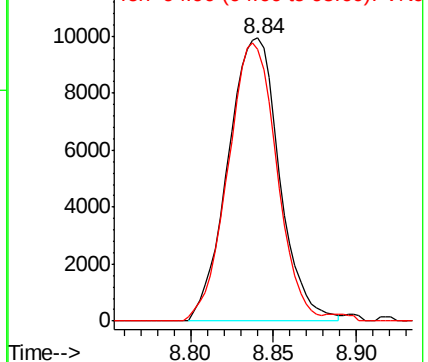
130 100

95 94.3 76.4 114.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#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

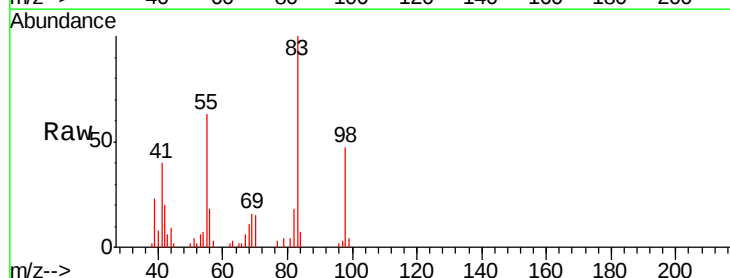
Tgt Ion: 83 Resp: 29876

Ion Ratio Lower Upper

83 100

55 63.8 43.0 129.2

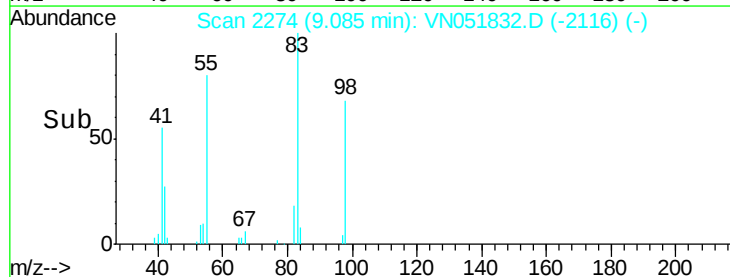
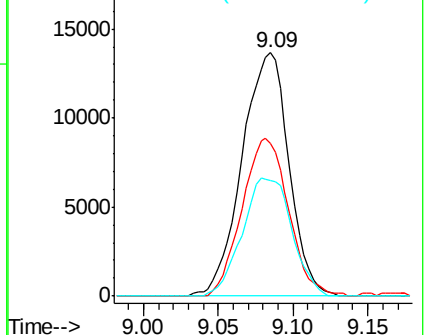
98 51.0 21.3 63.7

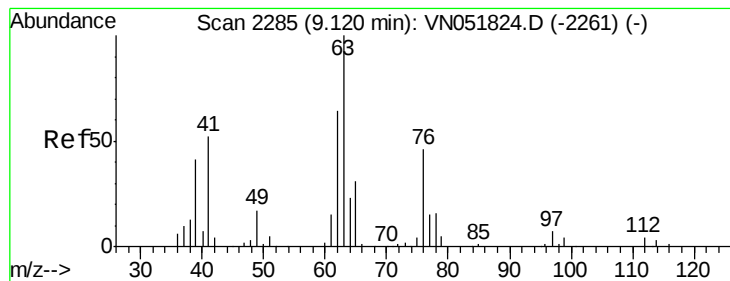


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





#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 :

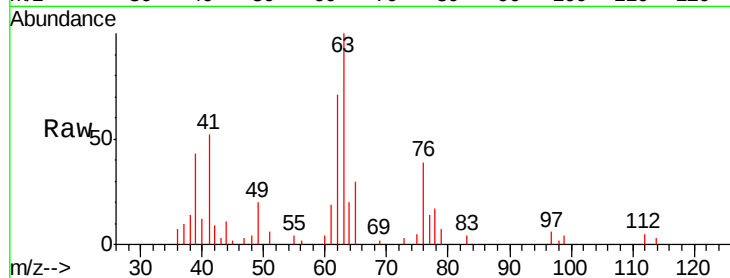
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 63 Resp: 16922

Ion Ratio Lower Upper

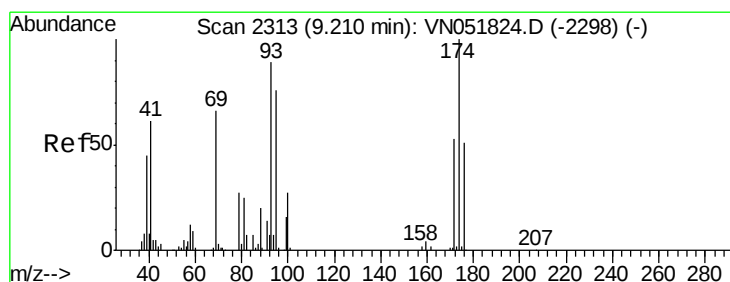
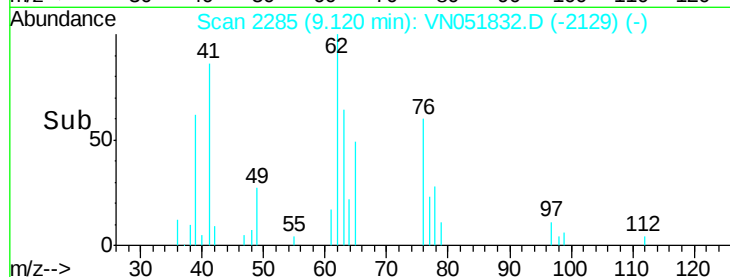
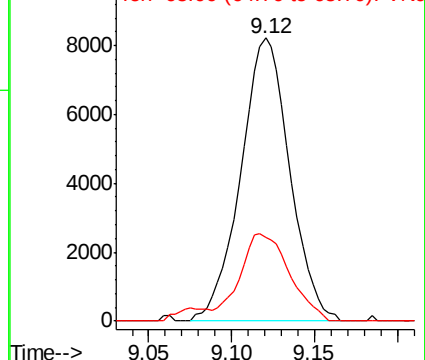
63 100

65 29.5 23.2 34.8



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#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

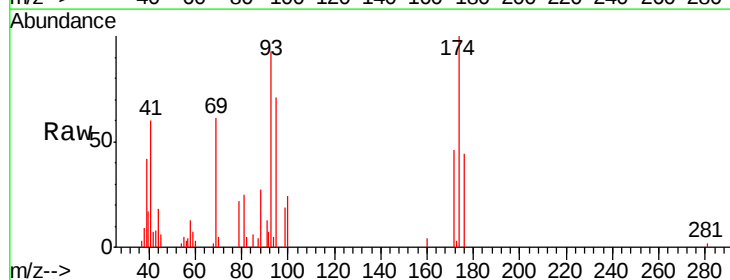
Tgt Ion: 93 Resp: 13142

Ion Ratio Lower Upper

93 100

95 75.5 0.0 162.0

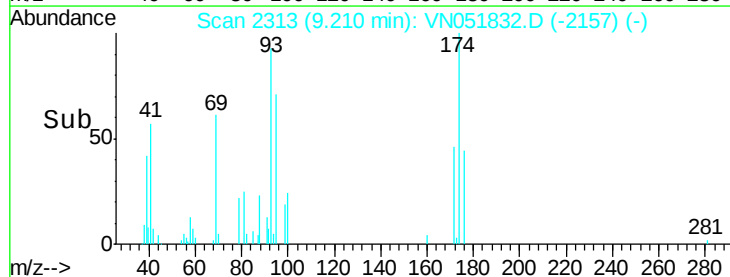
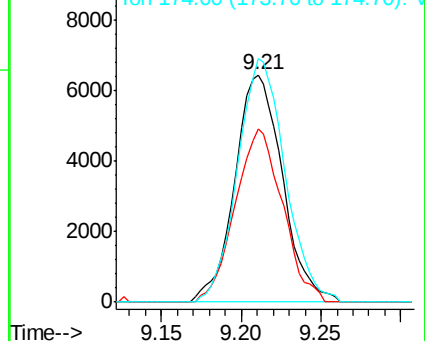
174 106.8 0.0 214.0

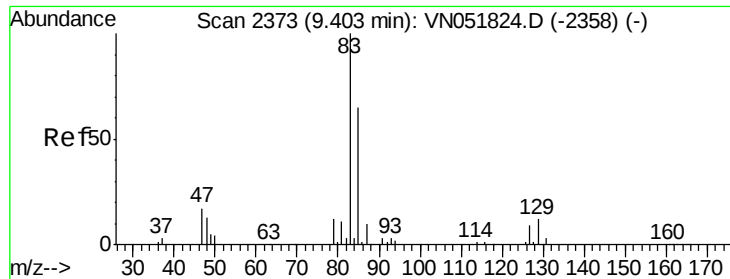


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#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

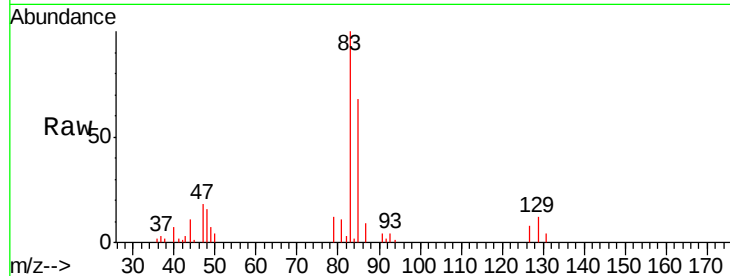
Tgt Ion: 83 Resp: 24123

Ion Ratio Lower Upper

83 100

85 68.1 55.7 83.5

127 8.0 8.2 12.4#

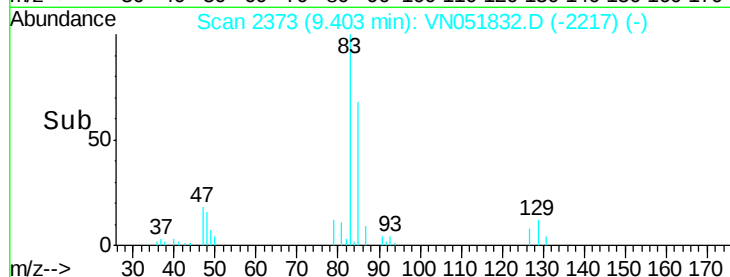


Abundance Ion 83.00 (82.70 to 83.70): VN051832.D (-2217) (-)

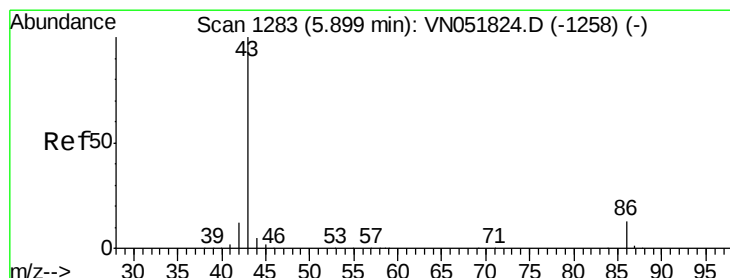
Ion 85.00 (84.70 to 85.70): VN051832.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VN051832.D (-2217) (-)

Time-->



Time-->



#42

Vinyl Acetate

Concen: 12.27 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN051832.D

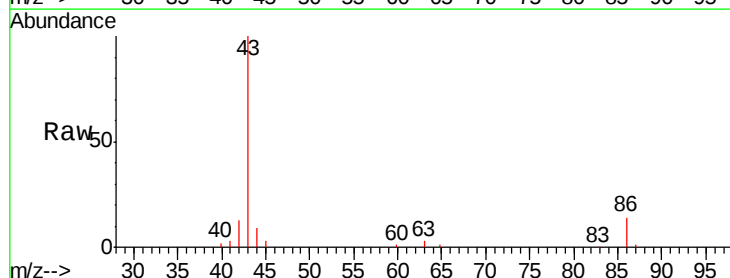
Acq: 12 Oct 2018 15:01

Tgt Ion: 43 Resp: 133143

Ion Ratio Lower Upper

43 100

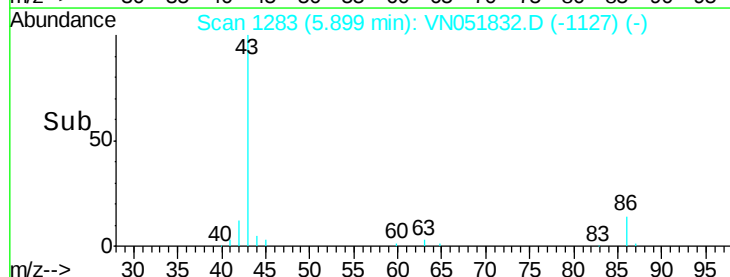
86 11.1 6.5 9.7#



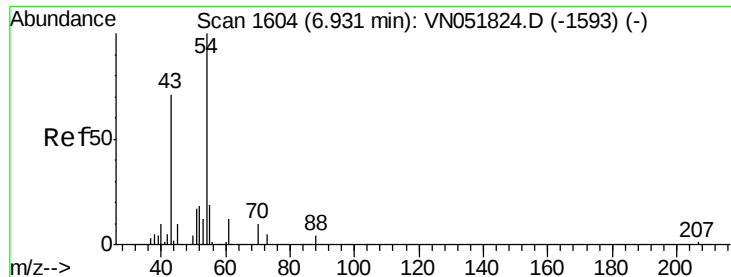
Abundance Ion 43.00 (42.70 to 43.70): VN051832.D (-1127) (-)

Ion 86.00 (85.70 to 86.70): VN051832.D (-1127) (-)

Time-->



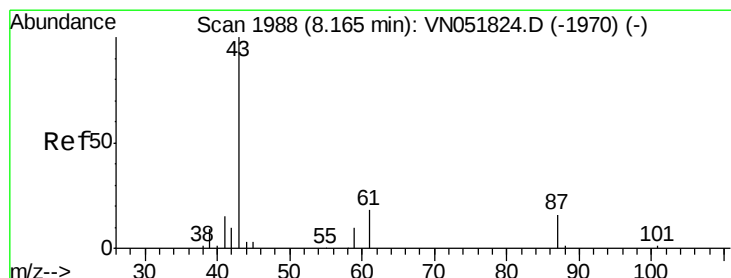
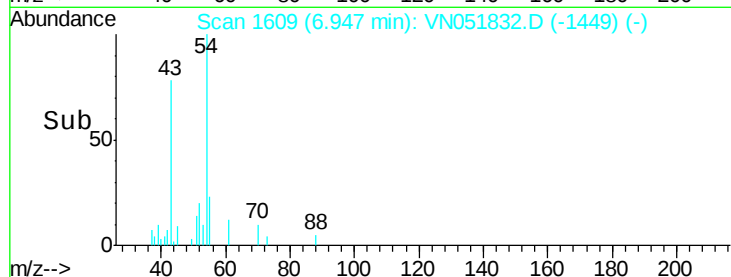
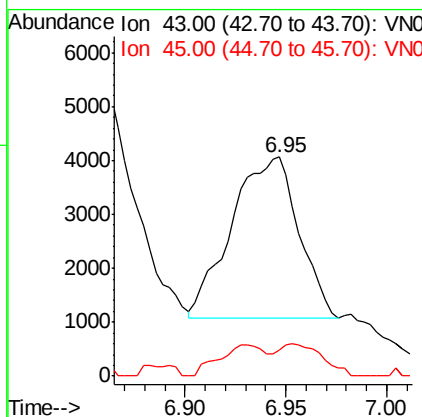
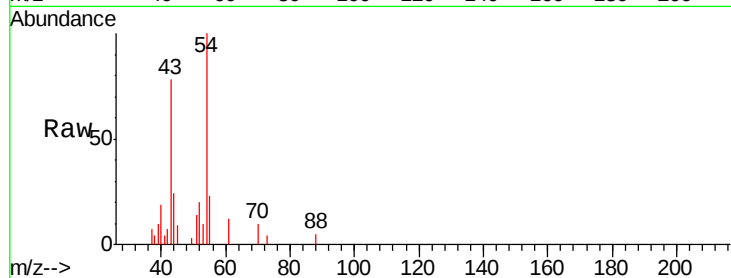
Time-->



#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

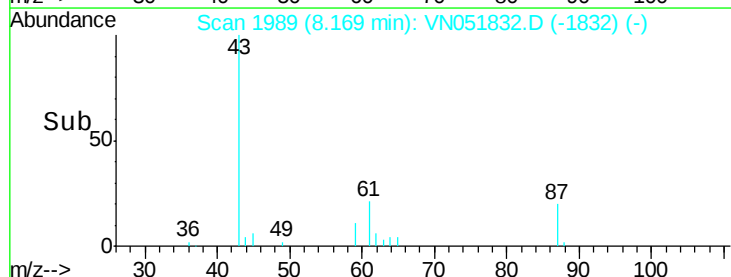
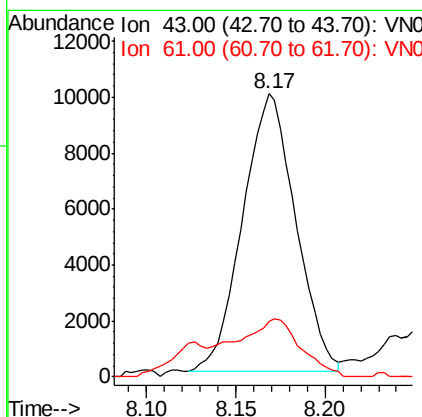
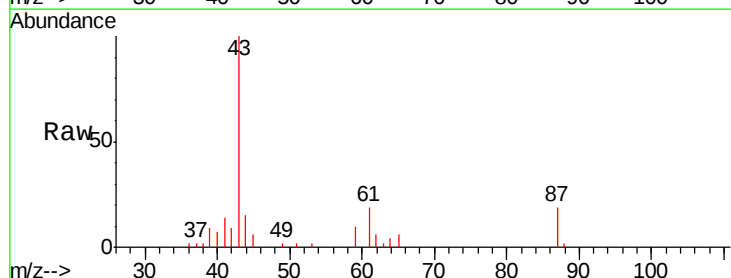
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

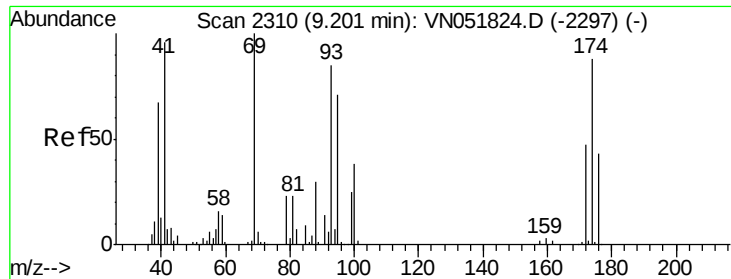
Tgt Ion: 43 Resp: 6967
Ion Ratio Lower Upper
43 100
45 12.6 11.0 16.6



#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#

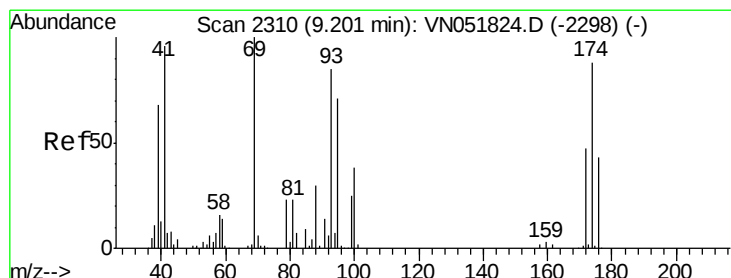
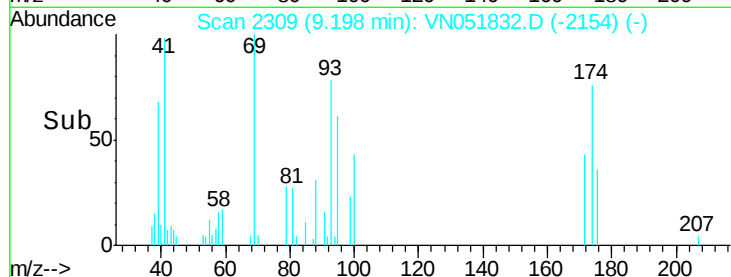
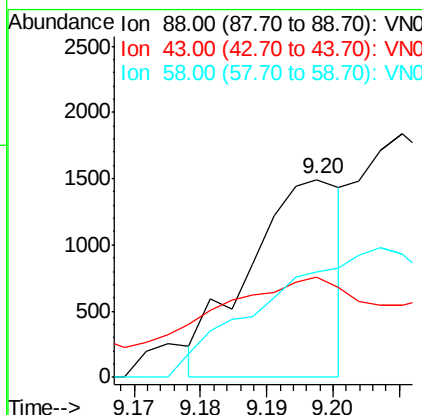
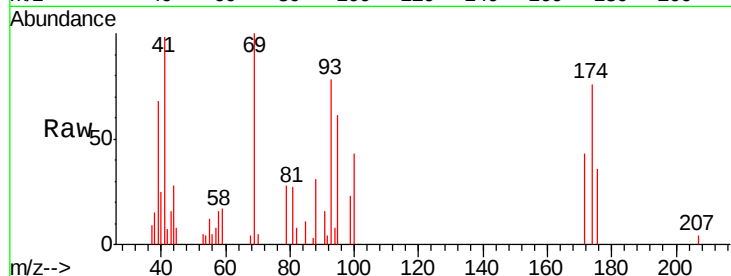




#45
 1,4-Dioxane
 Concen: 21.75 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

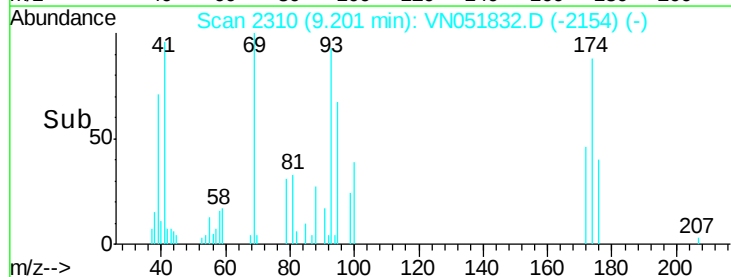
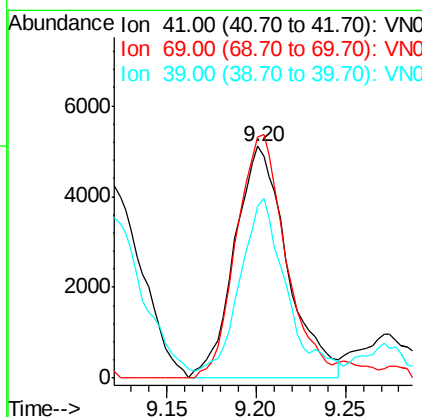
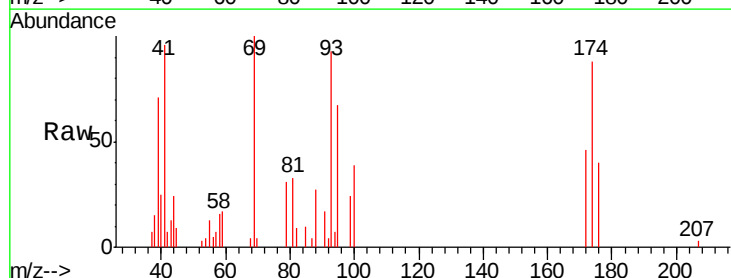
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

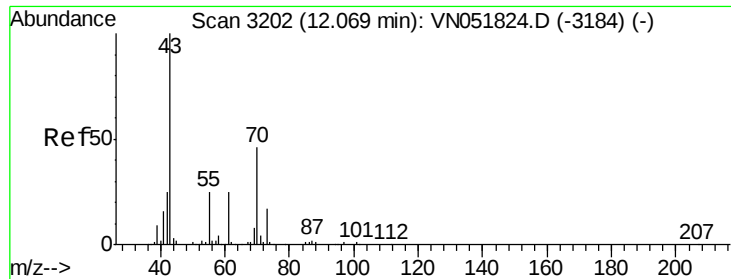
Tgt Ion: 88 Resp: 1460
 Ion Ratio Lower Upper
 88 100
 43 51.1 26.2 39.2#
 58 0.0 65.6 98.4#



#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: 41 Resp: 10534
 Ion Ratio Lower Upper
 41 100
 69 104.2 40.7 122.1
 39 70.3 27.3 81.9

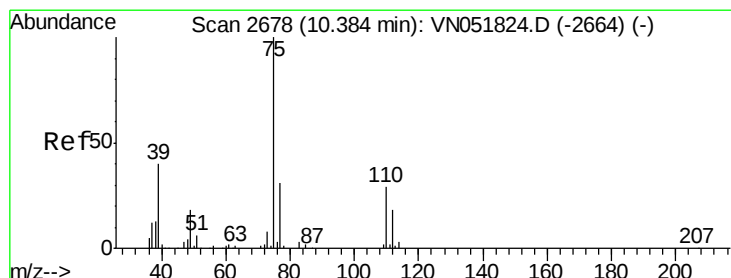
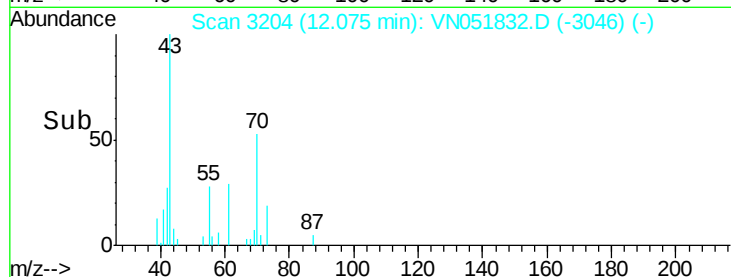
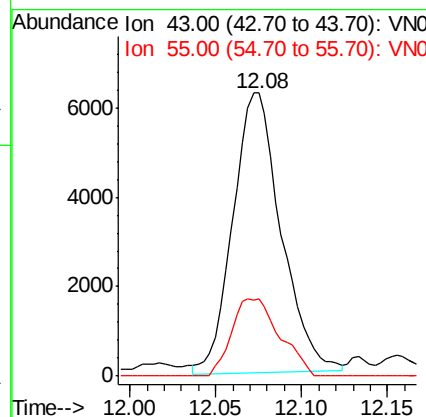
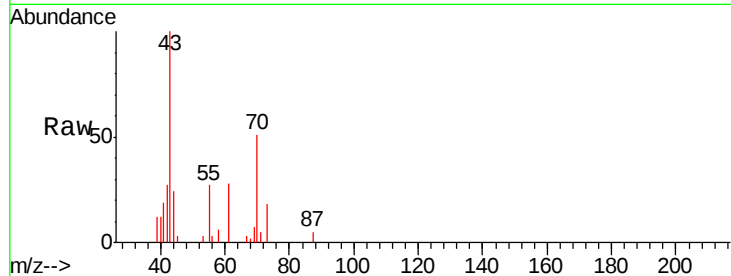




#47
n-amy1 Acetate
Concen: 1.74 ug/l
RT: 12.08 min Scan# 3204
Delta R.T. 0.01 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

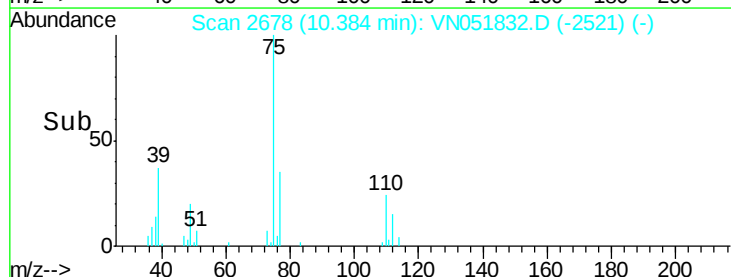
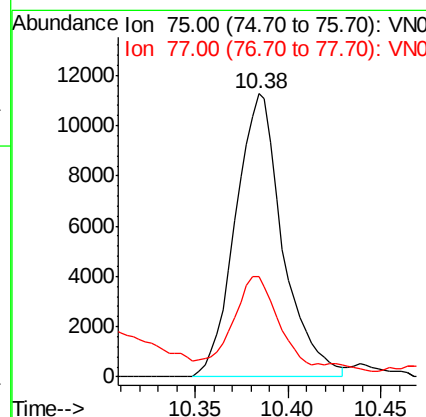
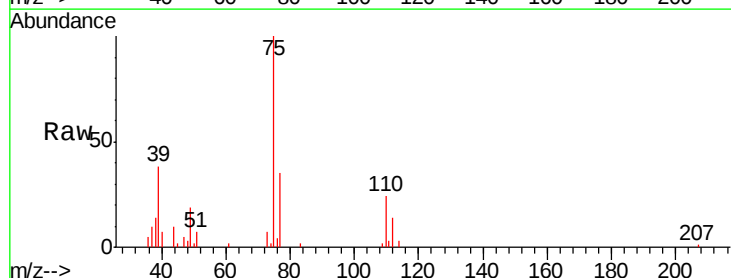
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

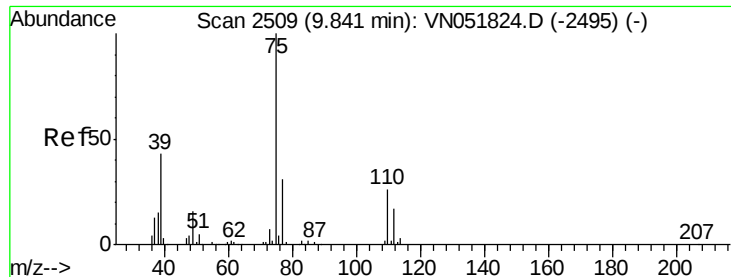
Tgt Ion: 43 Resp: 12173
Ion Ratio Lower Upper
43 100
55 13.7 12.2 18.4



#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

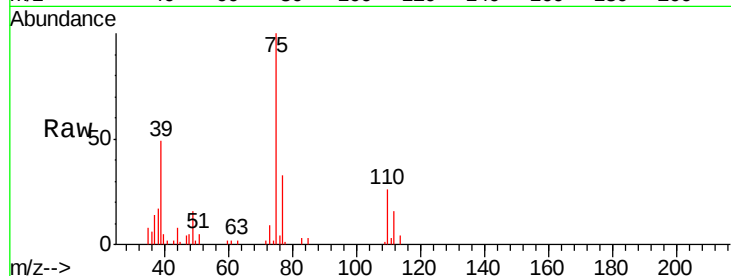
Tgt Ion: 75 Resp: 23889

Ion Ratio Lower Upper

75 100

77 32.8 23.2 34.8

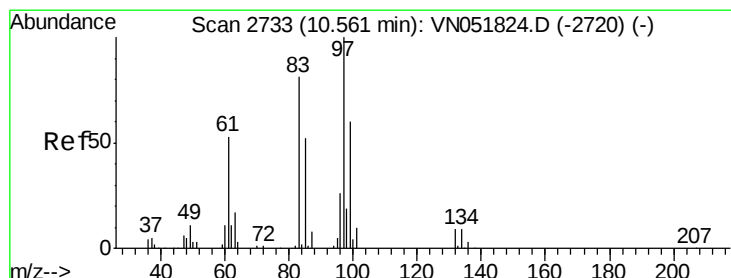
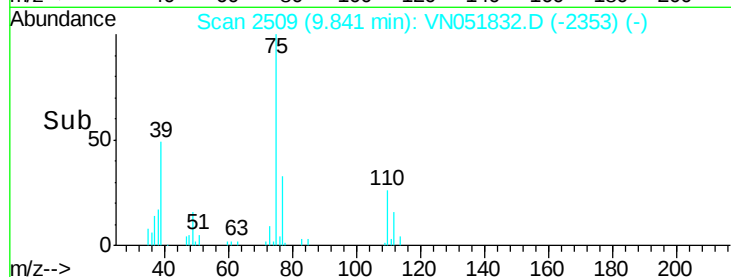
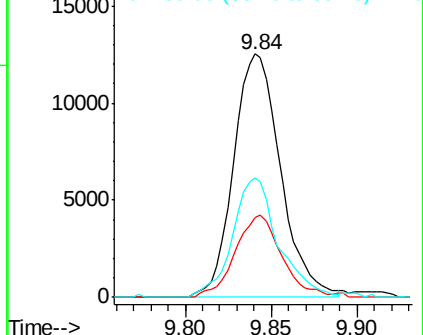
39 49.1 34.6 52.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#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

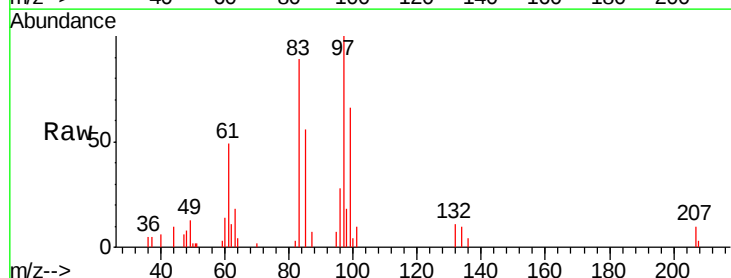
Ion Ratio Lower Upper

97 100

83 87.2 68.2 102.4

85 56.0 42.5 63.7

99 66.4 44.3 66.5

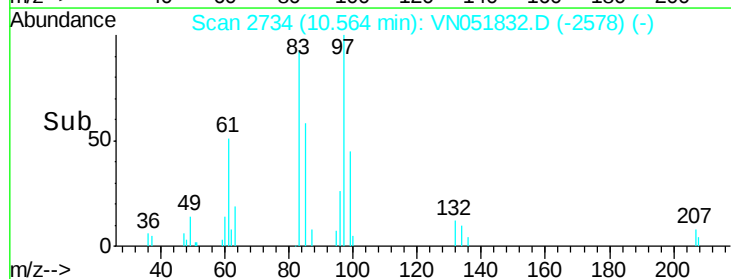
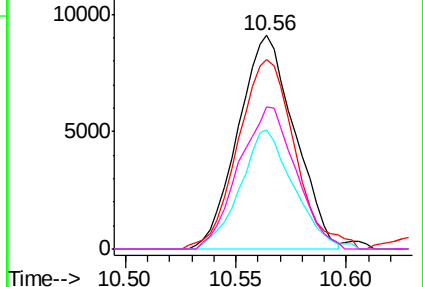


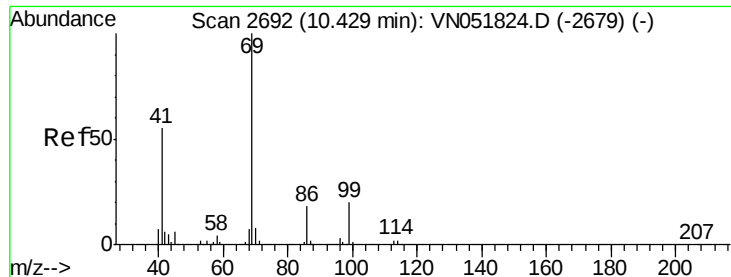
Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0





#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

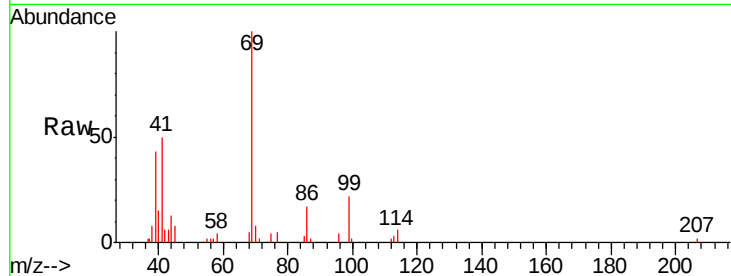
Tgt Ion: 69 Resp: 16925

Ion Ratio Lower Upper

69 100

41 49.9 34.4 103.1

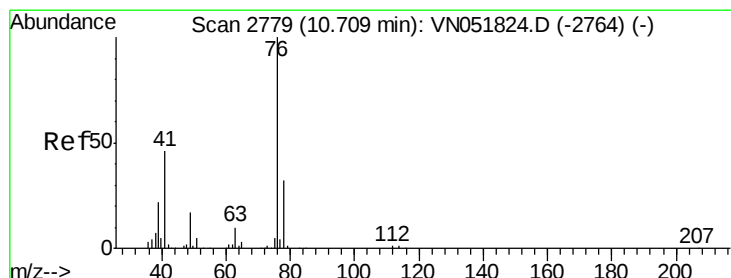
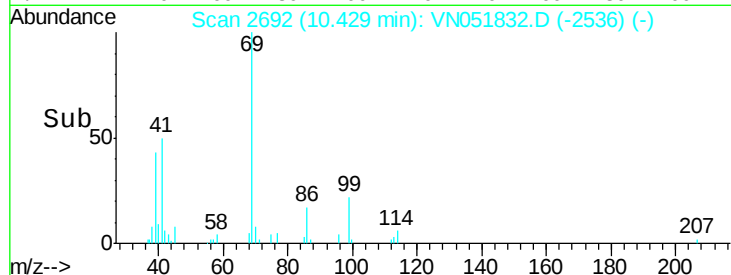
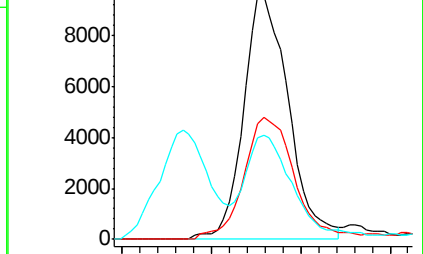
39 38.9 16.3 48.8



Abundance Ion 69.00 (68.70 to 69.70): VN051832.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN051832.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN051832.D (-2536) (-)



#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

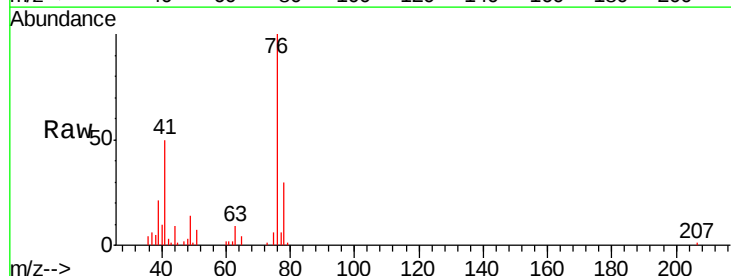
Acq: 12 Oct 2018 15:01

Tgt Ion: 76 Resp: 25359

Ion Ratio Lower Upper

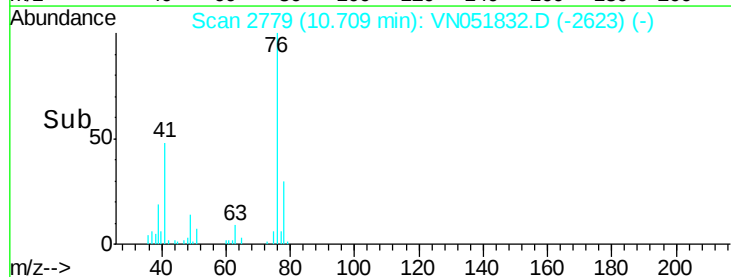
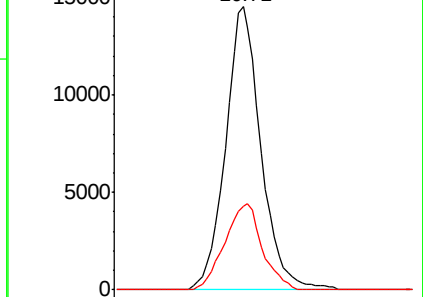
76 100

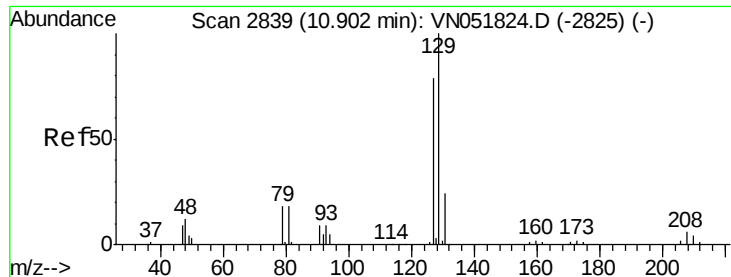
78 32.1 0.0 67.6



Abundance Ion 76.00 (75.70 to 76.70): VN051832.D (-2623) (-)

Ion 78.00 (77.70 to 78.70): VN051832.D (-2623) (-)





#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 :

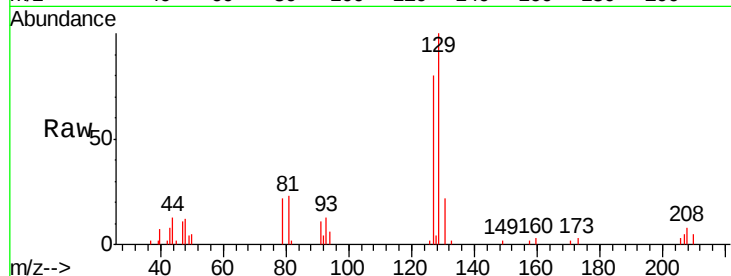
LOD-MDL-WATER-01-QT4-2018

Tgt Ion:129 Resp: 16292

Ion Ratio Lower Upper

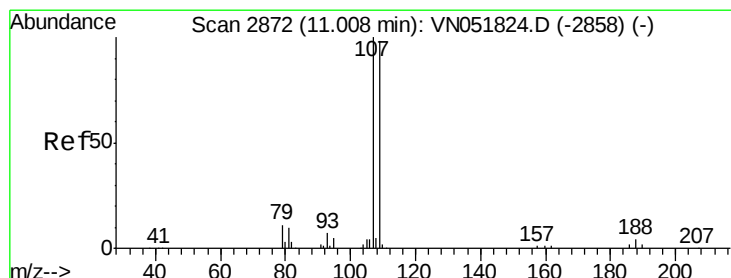
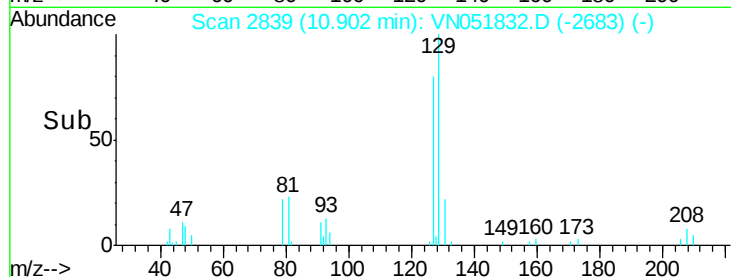
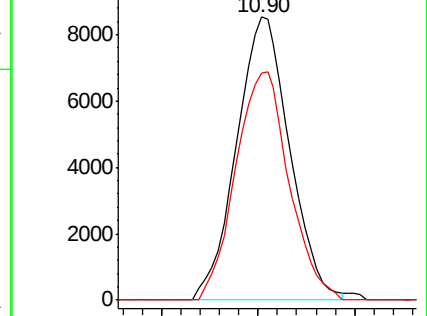
129 100

127 80.9 40.2 120.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#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

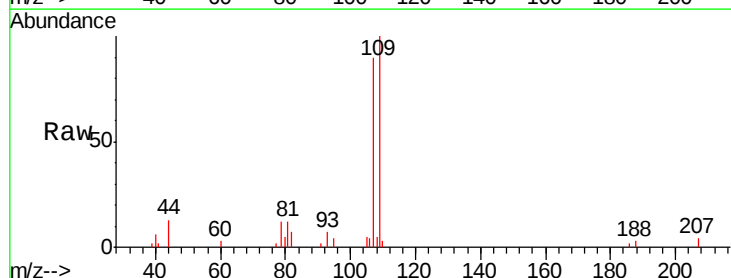
Acq: 12 Oct 2018 15:01

Tgt Ion:107 Resp: 15208

Ion Ratio Lower Upper

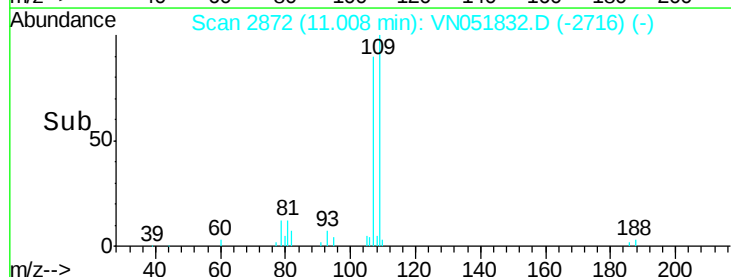
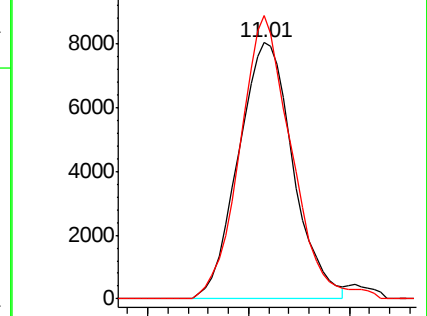
107 100

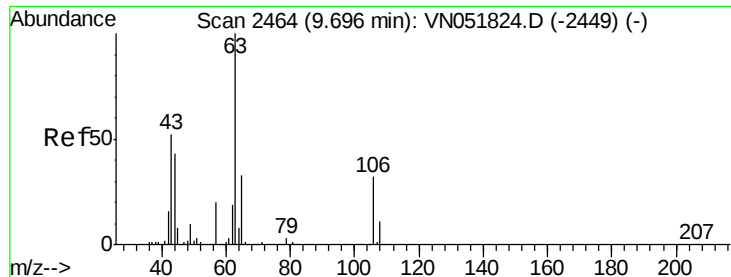
109 103.5 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#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

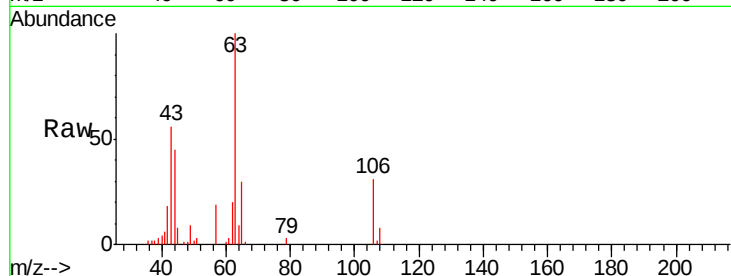
Tgt Ion: 63 Resp: 37125

Ion Ratio Lower Upper

63 100

65 31.2 25.4 38.0

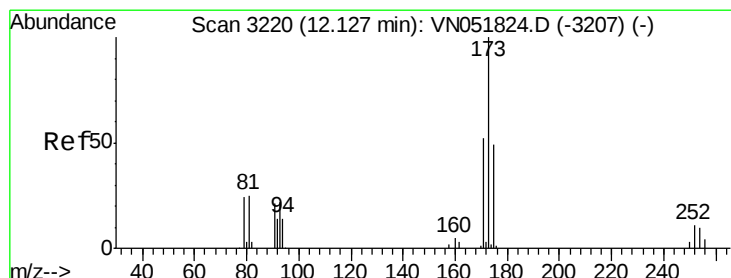
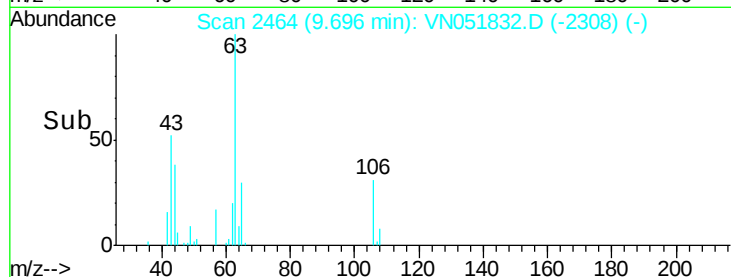
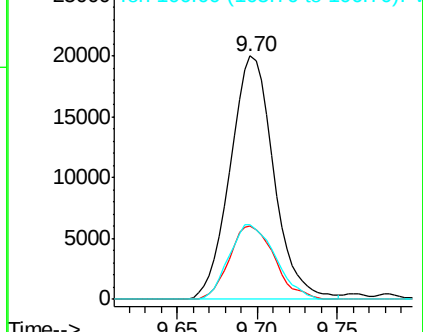
106 32.5 21.2 31.8#



Abundance Ion 63.00 (62.70 to 63.70): VN051832.D (-2308) (-)

Ion 65.00 (64.70 to 65.70): VN051832.D (-2308) (-)

Ion 106.00 (105.70 to 106.70): VN051832.D (-2308) (-)



#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

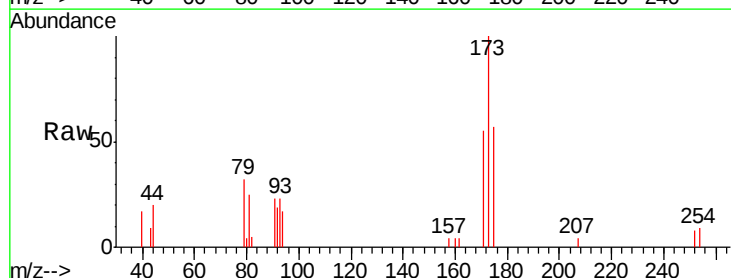
Tgt Ion: 173 Resp: 8864

Ion Ratio Lower Upper

173 100

175 47.7 35.8 53.8

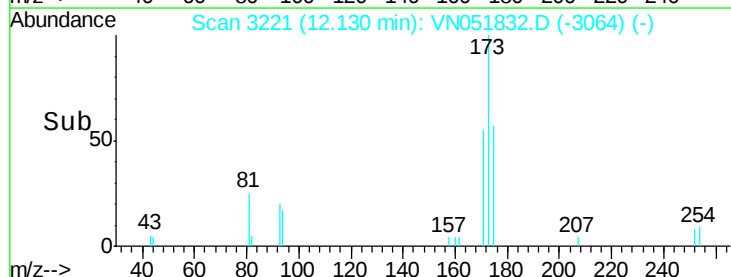
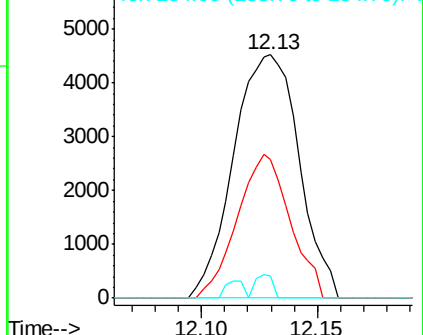
254 2.6 8.6 13.0#

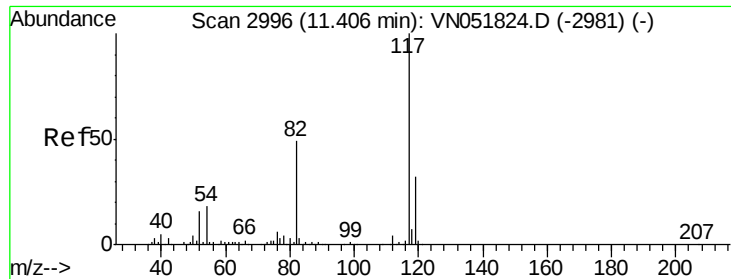


Abundance Ion 173.00 (172.70 to 173.70): VN051832.D (-3064) (-)

Ion 175.00 (174.70 to 175.70): VN051832.D (-3064) (-)

Ion 254.00 (253.70 to 254.70): VN051832.D (-3064) (-)

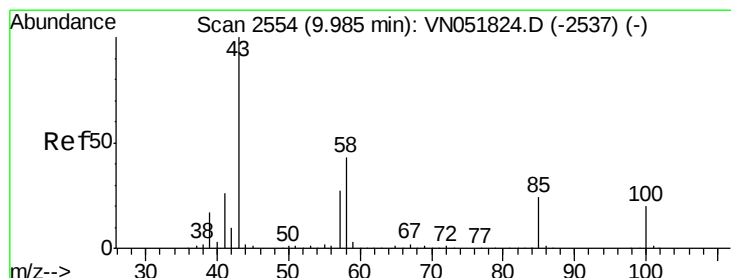
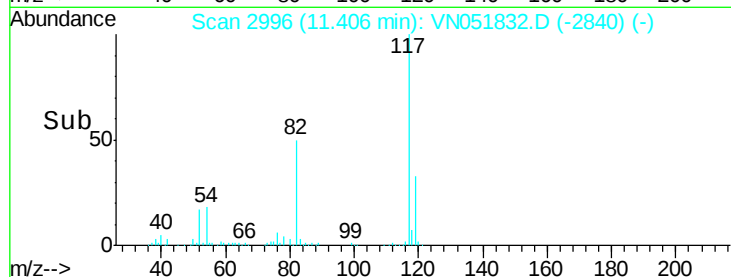
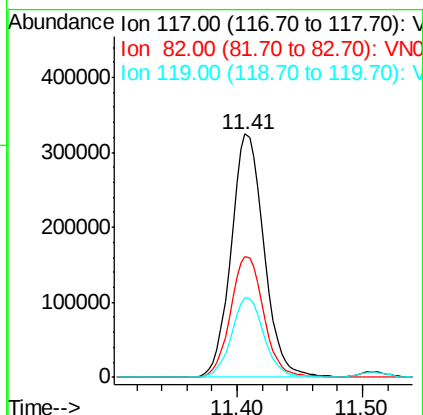
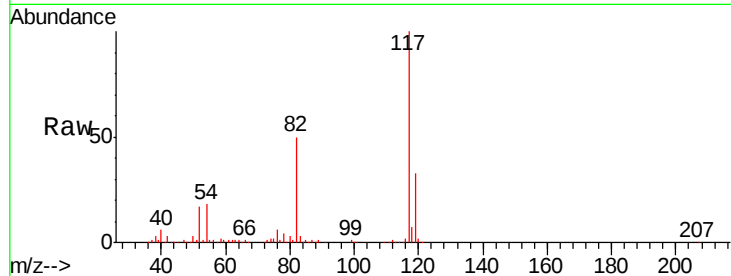




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

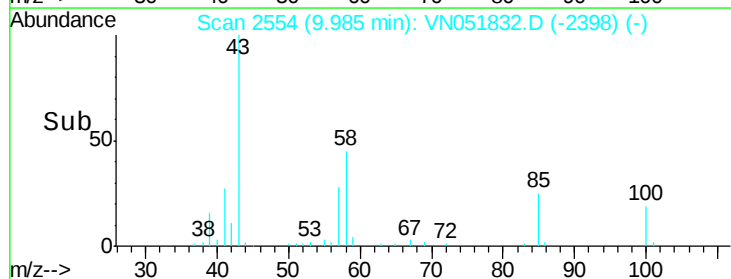
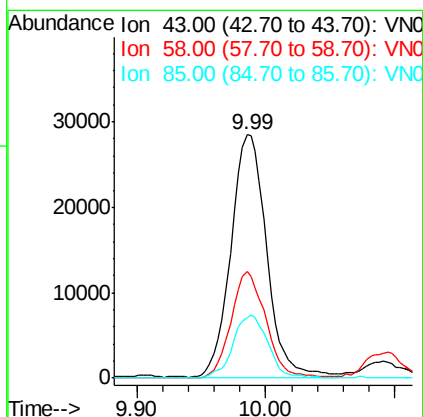
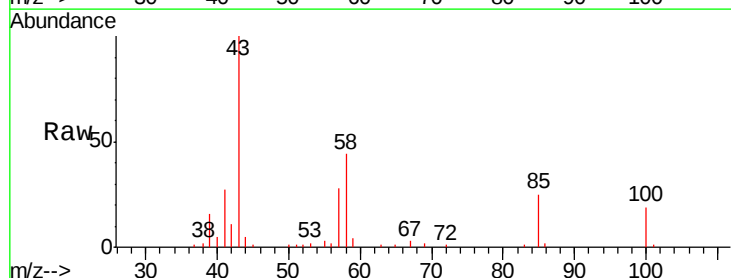
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

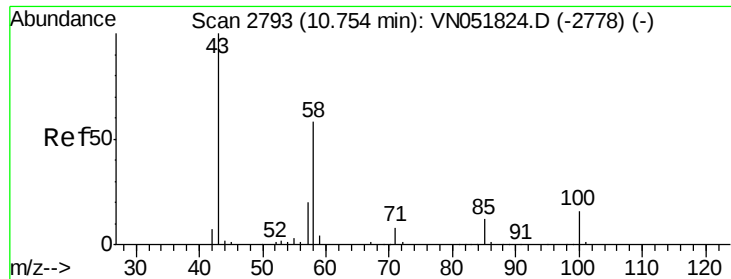
Tgt Ion: 117 Resp: 590545
Ion Ratio Lower Upper
117 100
82 50.3 44.1 66.1
119 32.6 25.8 38.8



#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: 43 Resp: 55421
Ion Ratio Lower Upper
43 100
58 42.1 29.3 43.9
85 25.0 12.6 18.8#

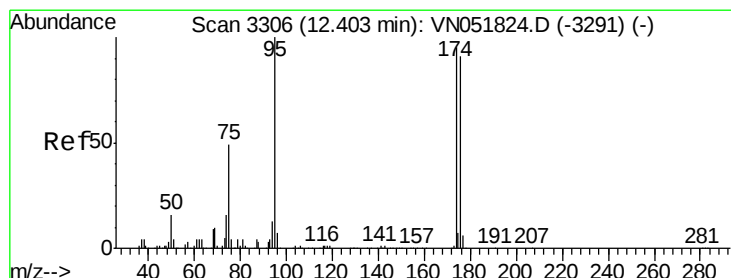
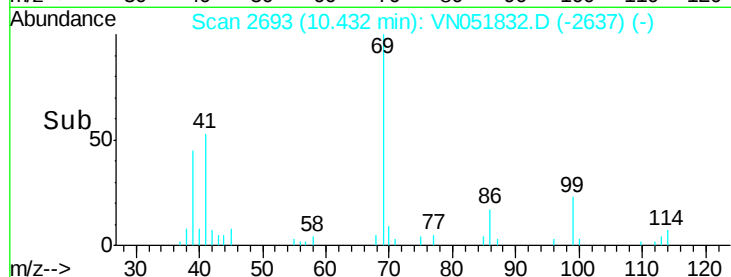
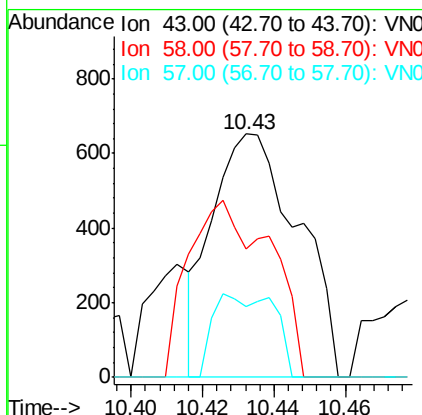
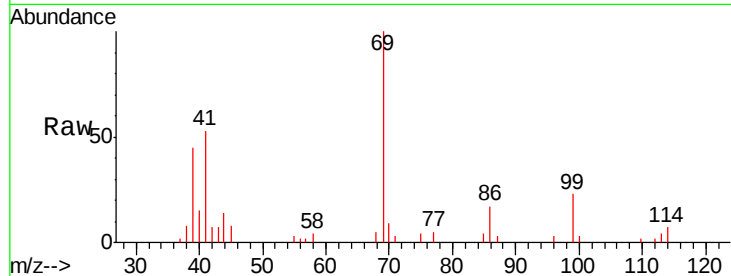




#59
2-Hexanone
Concen: 0.41 ug/l
RT: 10.43 min Scan# 2693
Delta R.T. -0.32 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

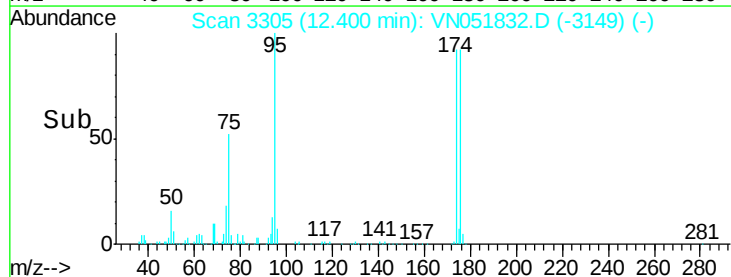
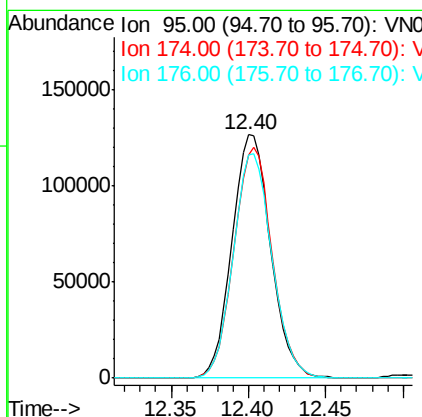
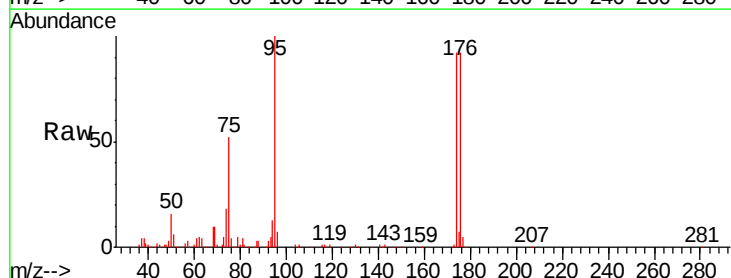
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

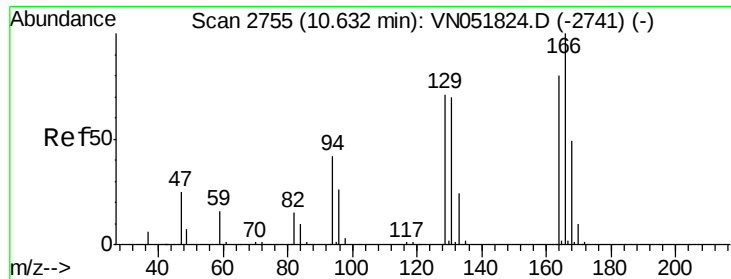
Tgt Ion: 43 Resp: 1088
Ion Ratio Lower Upper
43 100
58 46.6 41.3 61.9
57 13.9 13.4 20.0



#60
4-Bromofluorobenzene
Concen: 0.41 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: 95 Resp: 219383
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

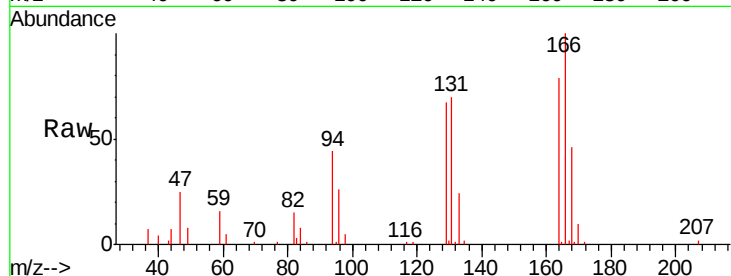
Ion Ratio Lower Upper

164 100

166 127.0 98.7 148.1

129 85.1 69.6 104.4

131 88.9 72.4 108.6

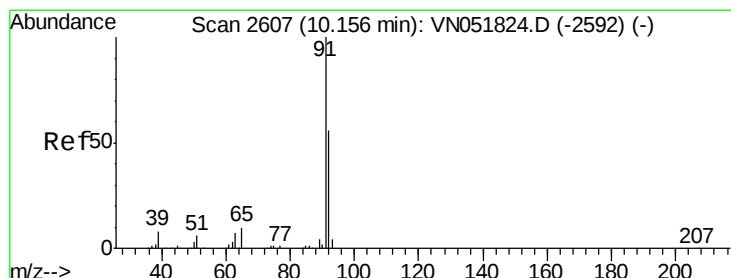
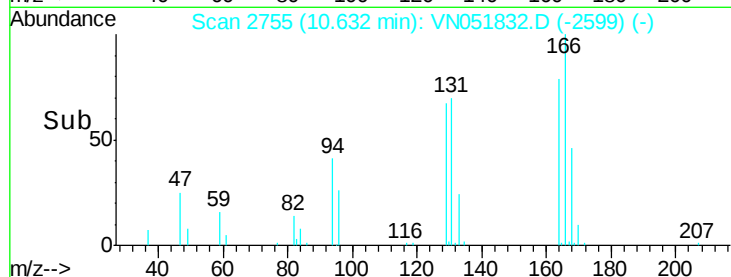
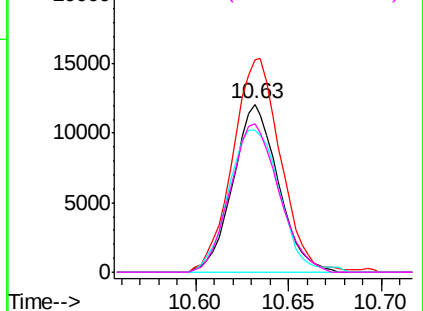


Abundance Ion 163.85 (163.55 to 164.55): V

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

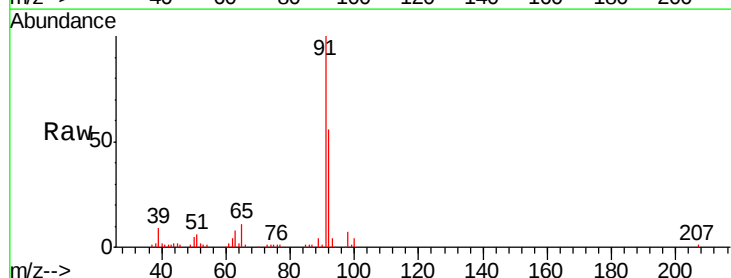
Acq: 12 Oct 2018 15:01

Tgt Ion: 91 Resp: 80677

Ion Ratio Lower Upper

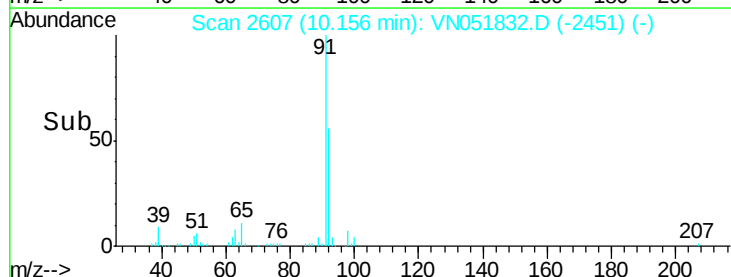
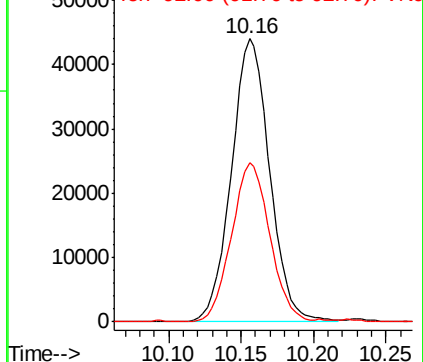
91 100

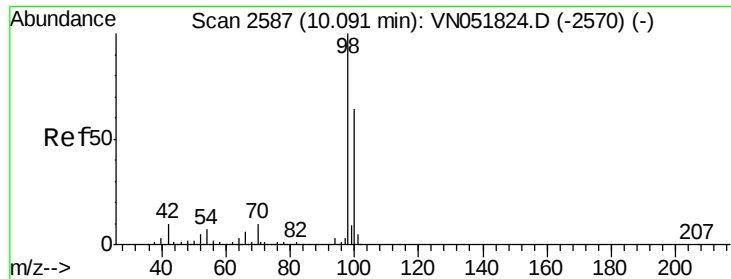
92 56.2 44.6 66.8



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 :

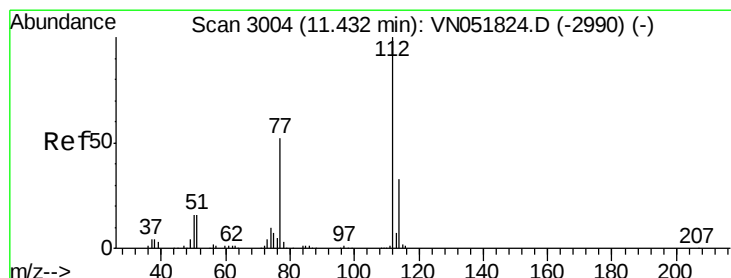
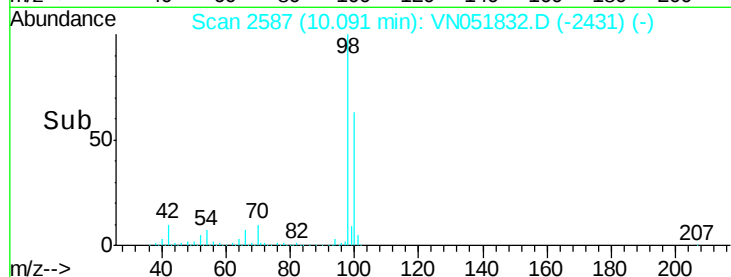
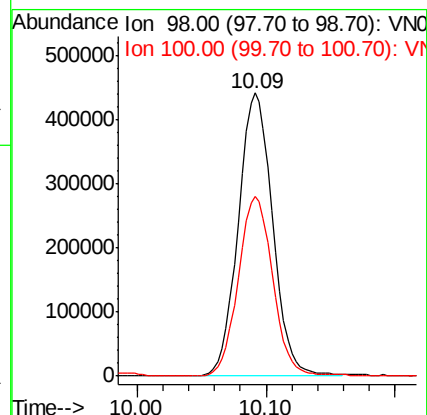
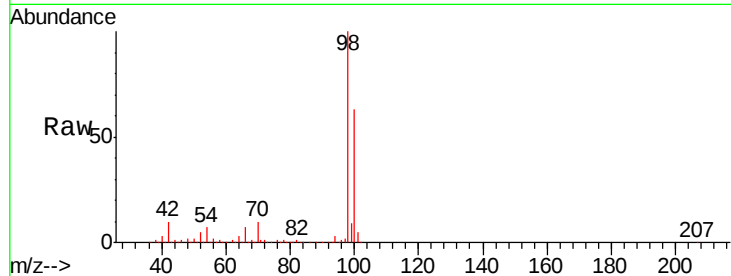
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 98 Resp: 818336

Ion Ratio Lower Upper

98 100

100 63.6 50.8 76.2



#64

Chlorobenzene

Concen: 2.63 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN051832.D

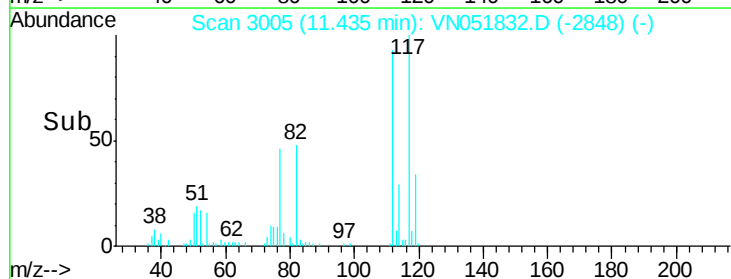
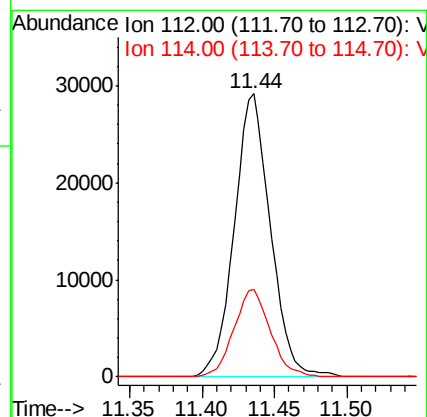
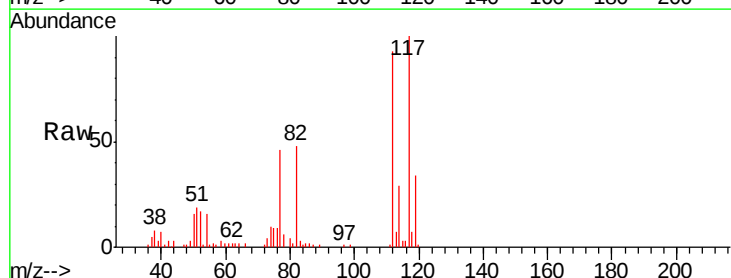
Acq: 12 Oct 2018 15:01

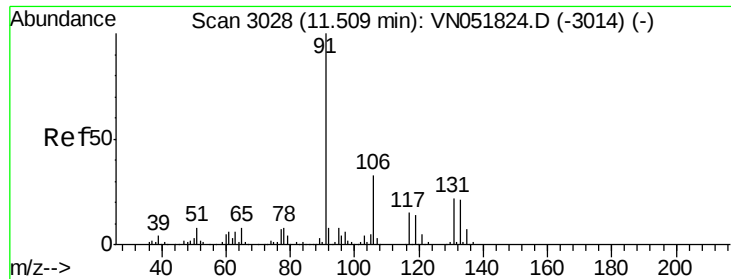
Tgt Ion: 112 Resp: 50494

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

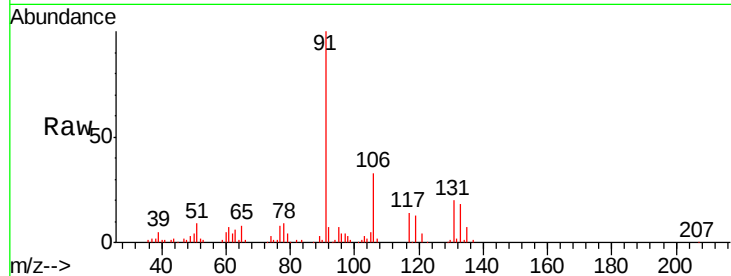
Tgt Ion:131 Resp: 18137

Ion Ratio Lower Upper

131 100

133 96.9 0.0 190.4

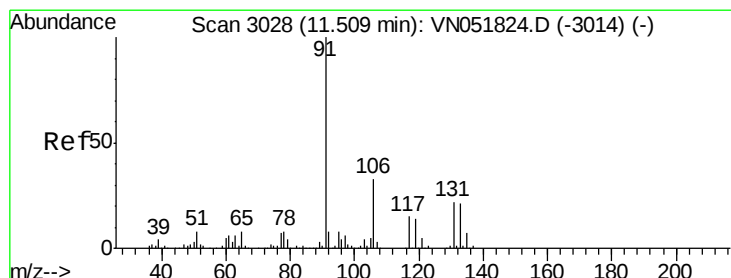
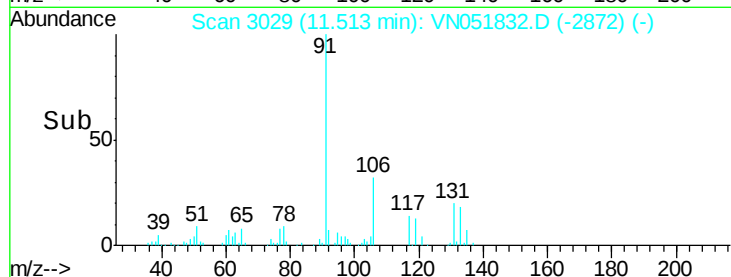
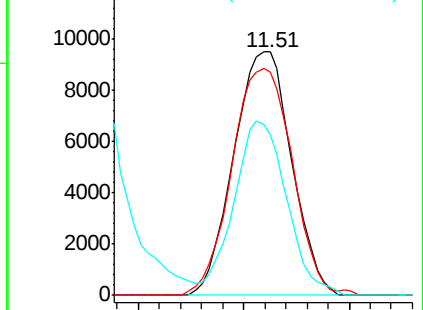
119 65.5 0.0 128.0



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 2.56 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051832.D

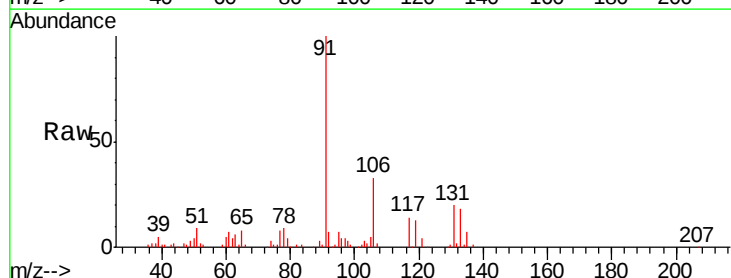
Acq: 12 Oct 2018 15:01

Tgt Ion: 91 Resp: 82920

Ion Ratio Lower Upper

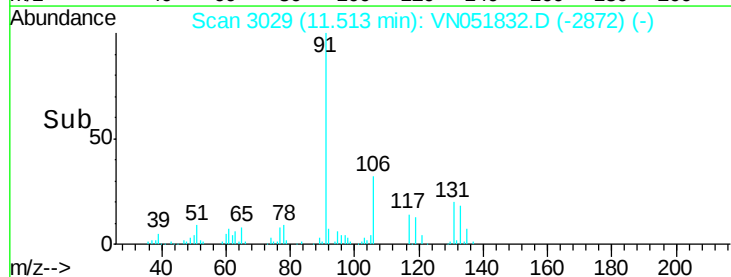
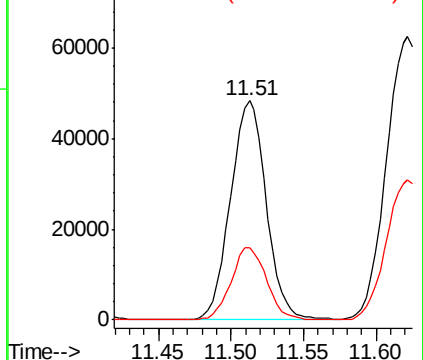
91 100

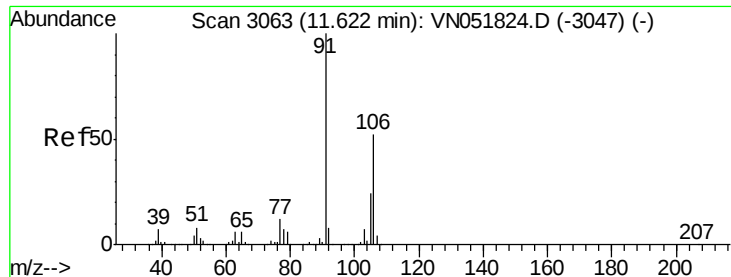
106 32.8 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#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 :

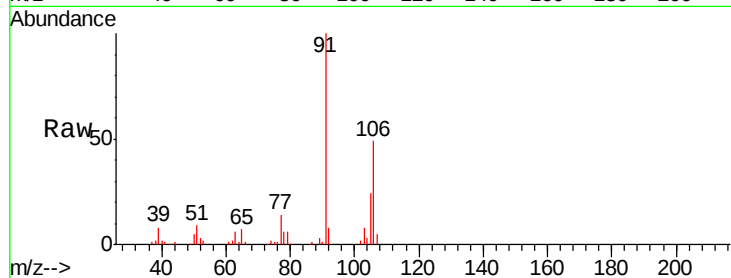
LOD-MDL-WATER-01-QT4-2018

Tgt Ion:106 Resp: 61779

Ion Ratio Lower Upper

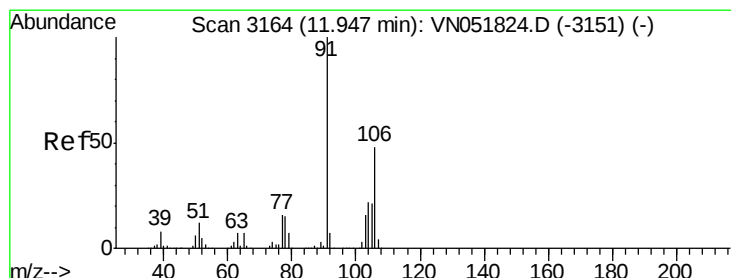
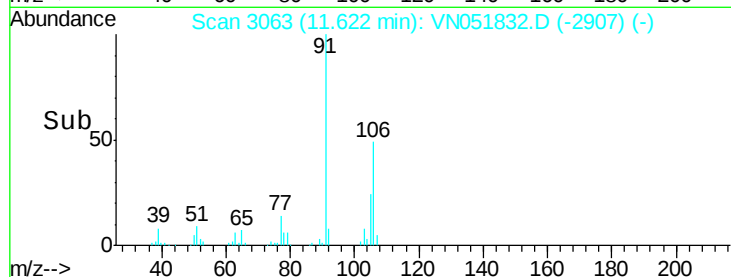
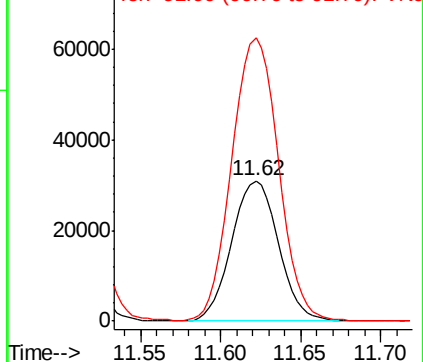
106 100

91 202.3 158.8 238.2



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

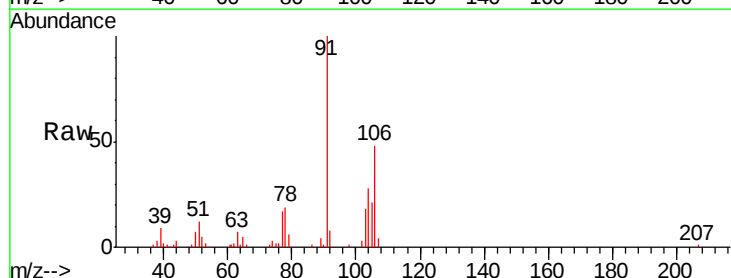
Acq: 12 Oct 2018 15:01

Tgt Ion:106 Resp: 31620

Ion Ratio Lower Upper

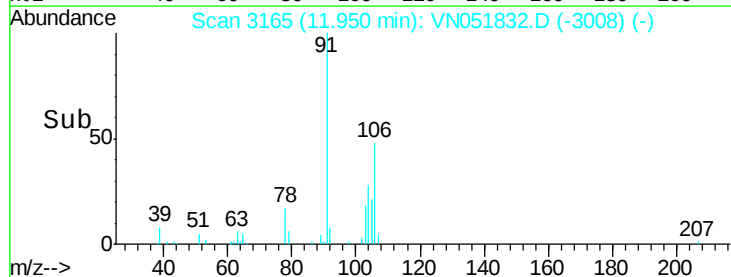
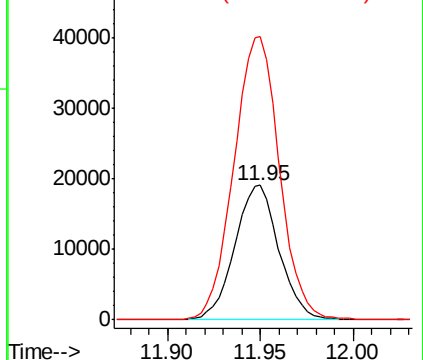
106 100

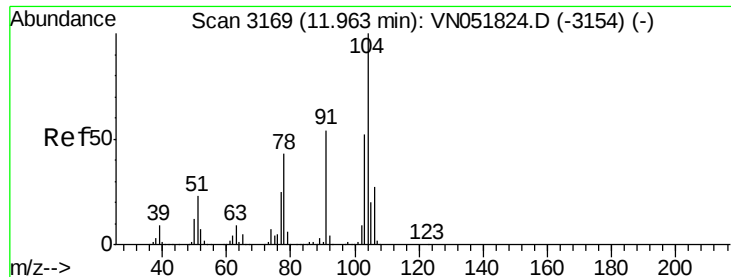
91 217.2 111.1 333.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

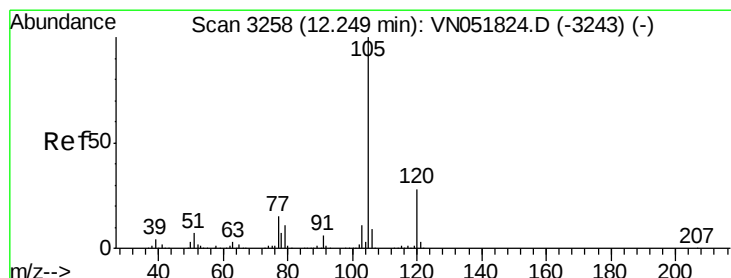
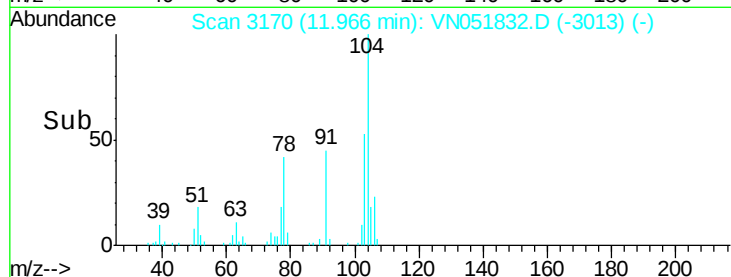
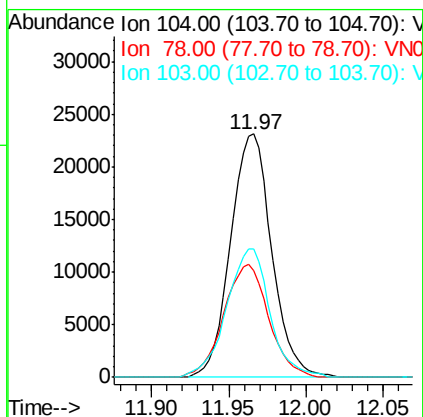
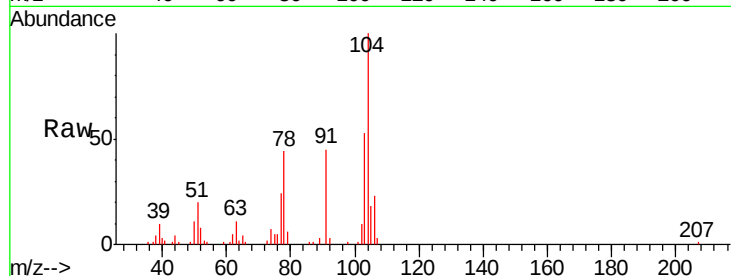




#69
Styrene
Concen: 2.15 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

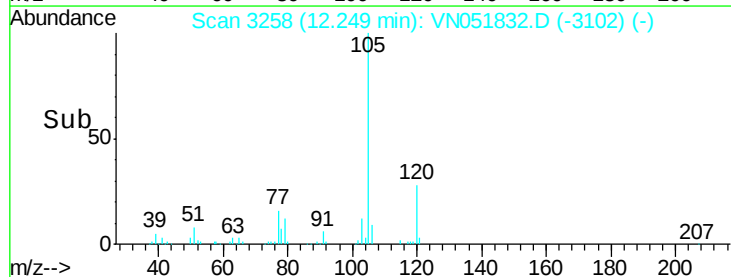
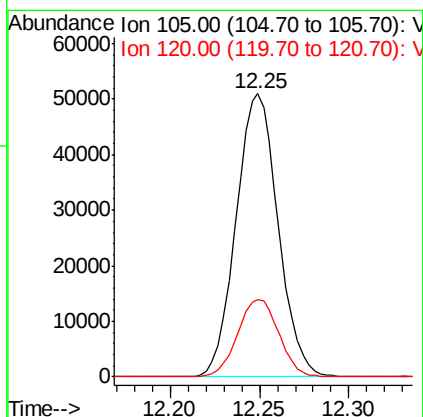
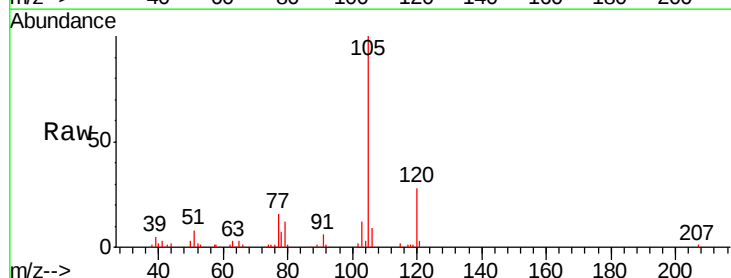
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

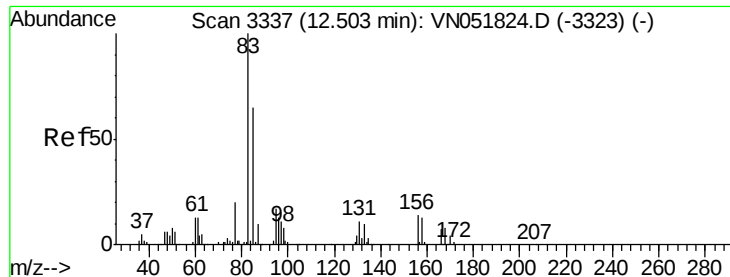
Tgt Ion:104 Resp: 42796
Ion Ratio Lower Upper
104 100
78 50.6 40.6 60.8
103 55.8 44.0 66.0



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

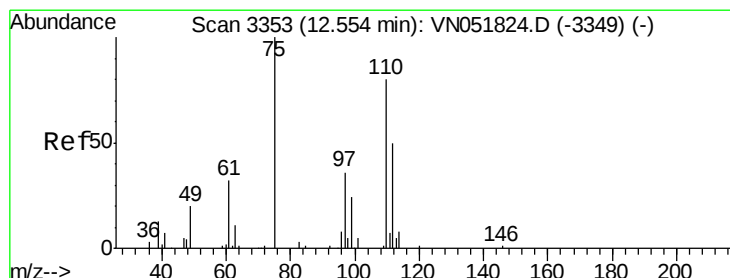
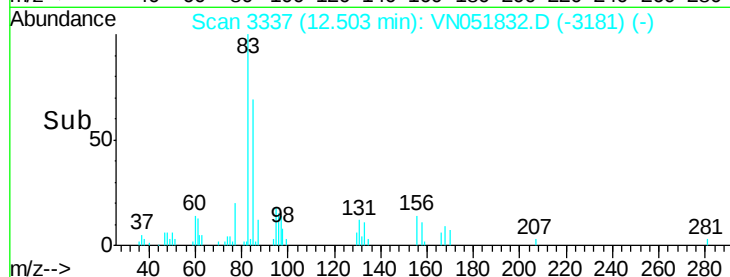
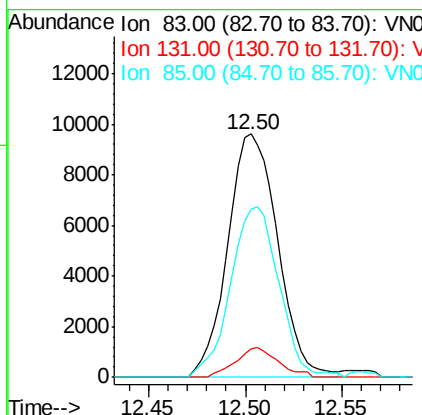
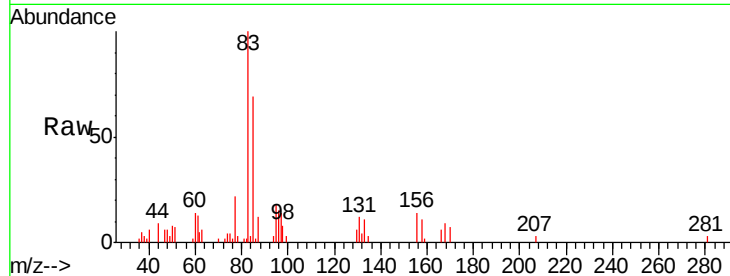




#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.53 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

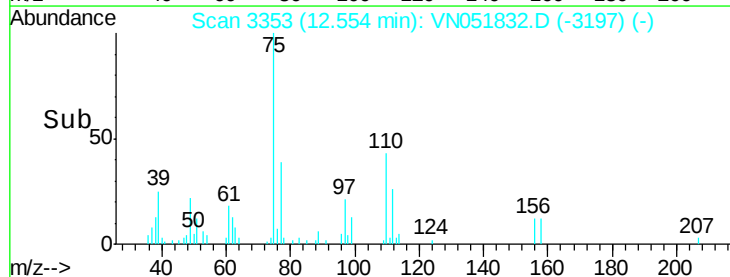
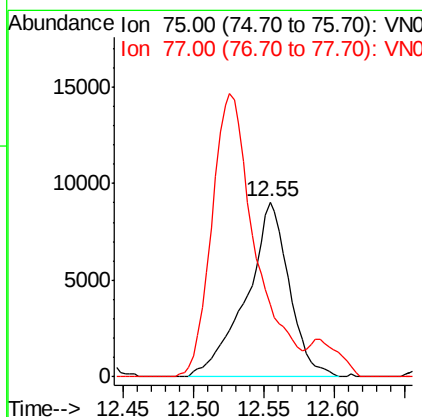
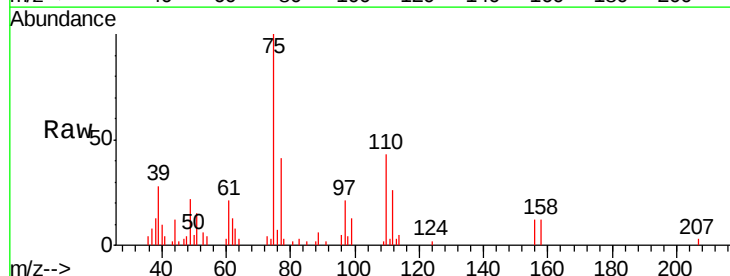
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

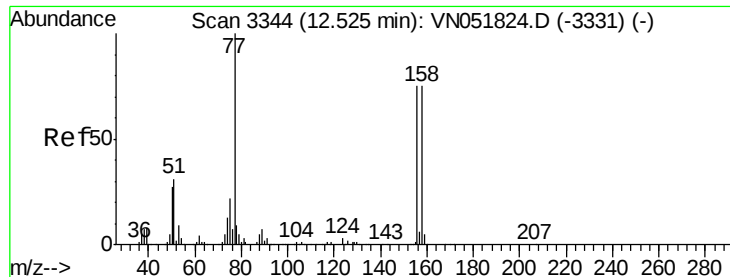
Tgt Ion: 83 Resp: 17245
 Ion Ratio Lower Upper
 83 100
 131 10.2 5.5 16.4
 85 67.1 30.6 91.8



#72
 1,2,3-Trichloropropane
 Concen: 3.57 ug/l
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

Tgt Ion: 75 Resp: 19152
 Ion Ratio Lower Upper
 75 100
 77 163.9 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

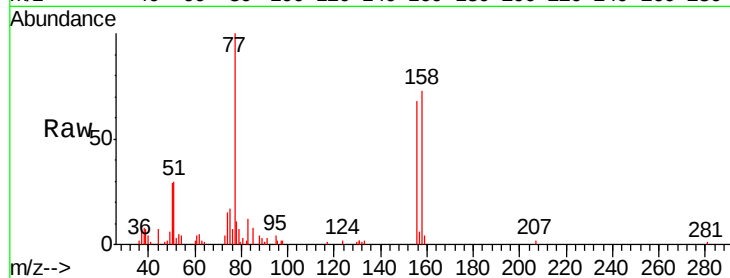
Tgt Ion:156 Resp: 18761

Ion Ratio Lower Upper

156 100

77 167.3 0.0 377.4

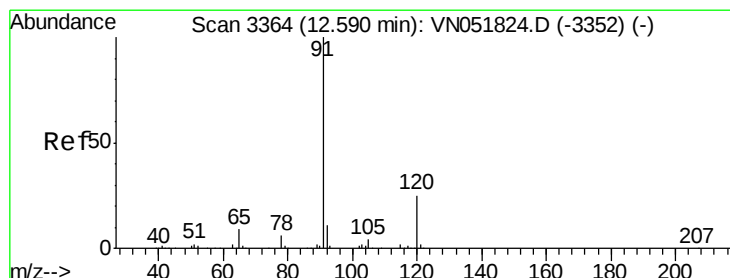
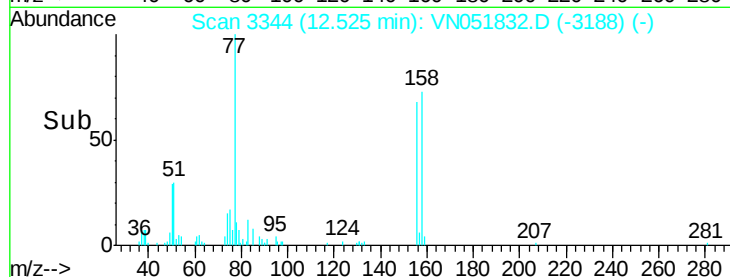
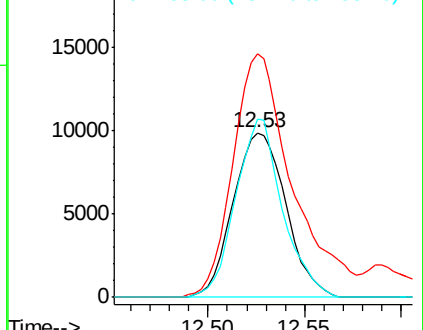
158 96.3 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.24 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051832.D

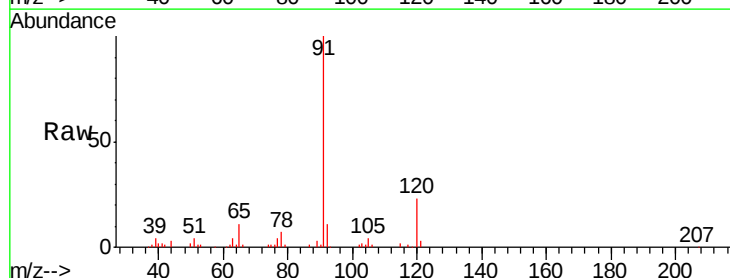
Acq: 12 Oct 2018 15:01

Tgt Ion: 91 Resp: 83202

Ion Ratio Lower Upper

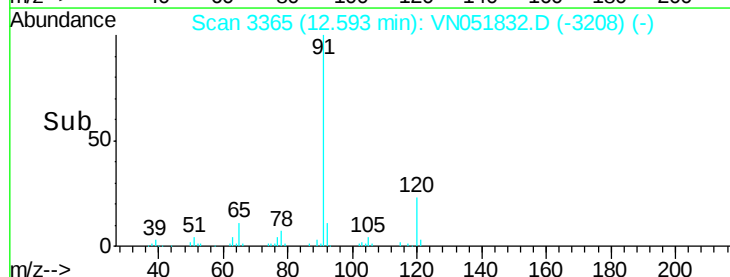
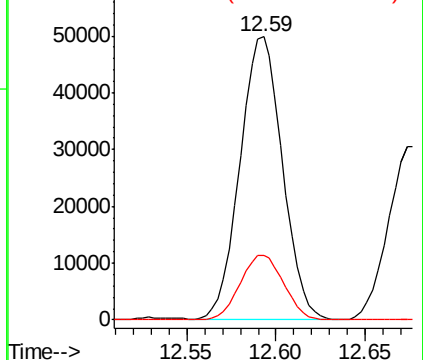
91 100

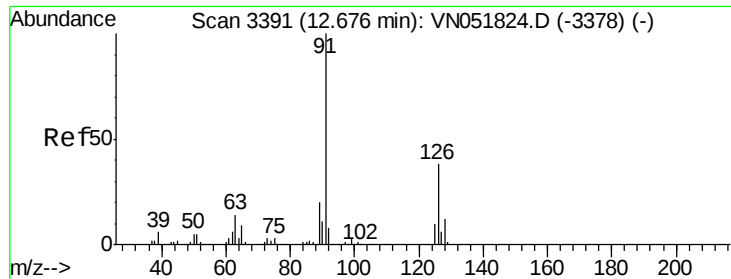
120 23.1 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#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 :

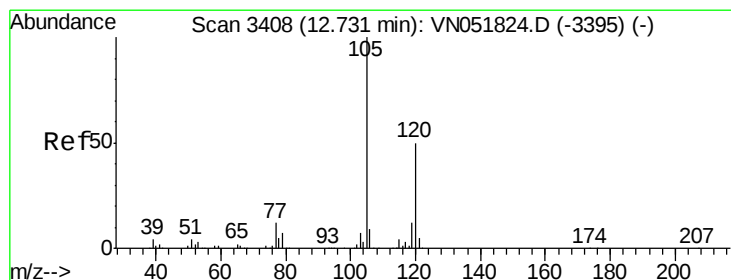
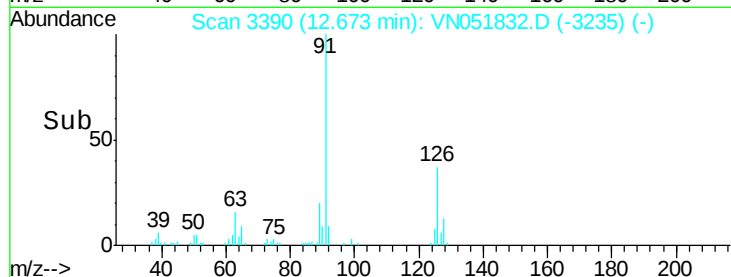
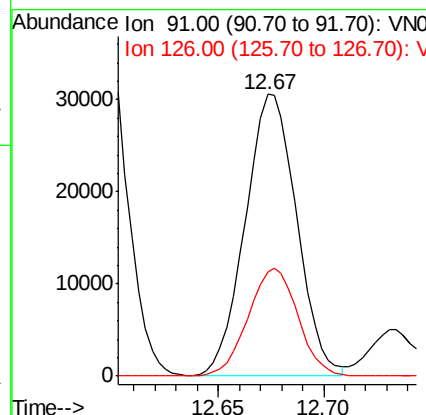
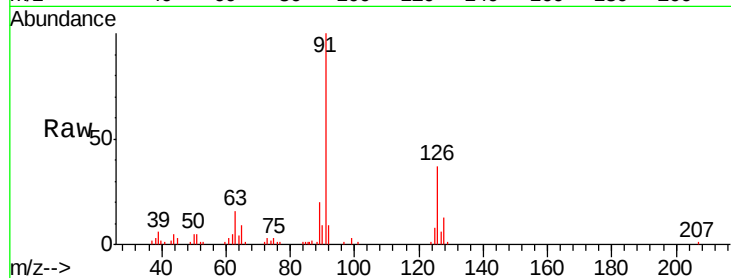
LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 91 Resp: 52022

Ion Ratio Lower Upper

91 100

126 36.8 0.0 67.6



#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

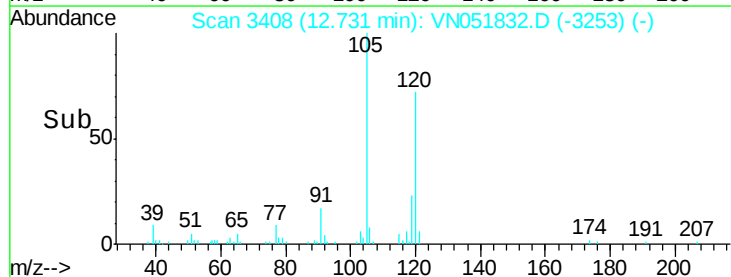
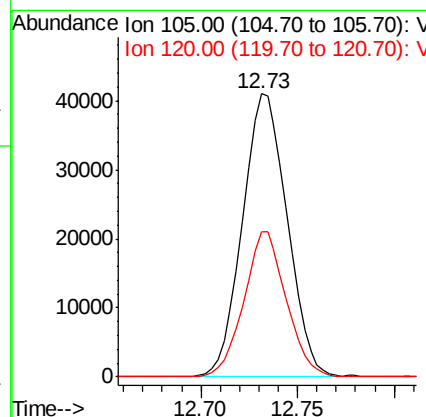
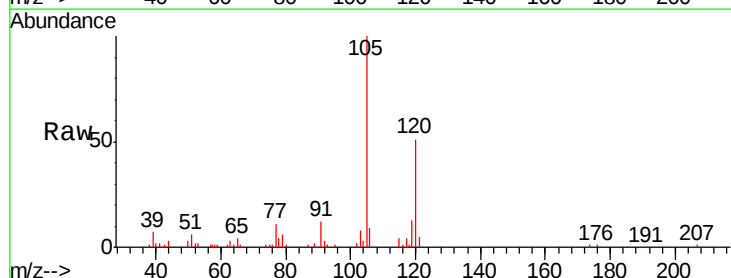
Acq: 12 Oct 2018 15:01

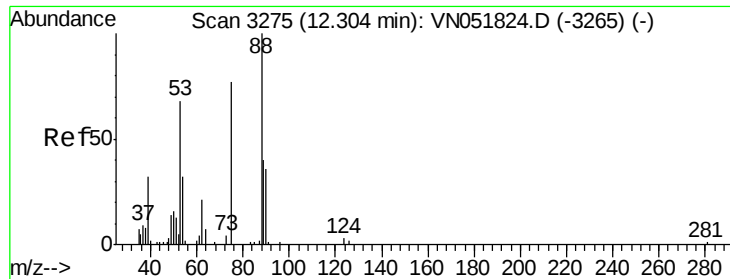
Tgt Ion: 105 Resp: 65887

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

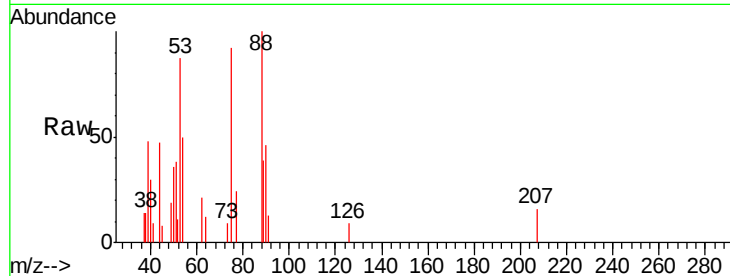
Tgt Ion: 75 Resp: 2954

Ion Ratio Lower Upper

75 100

53 86.0 46.3 138.9

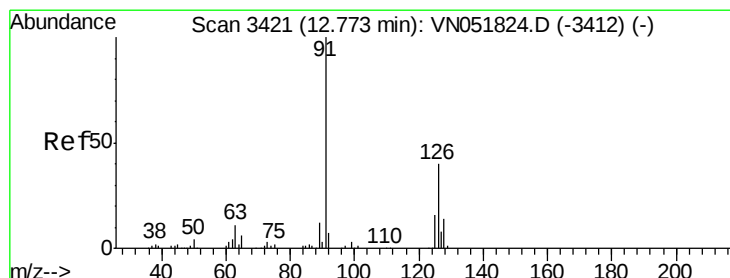
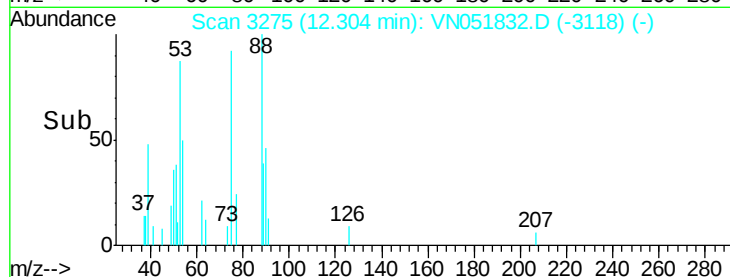
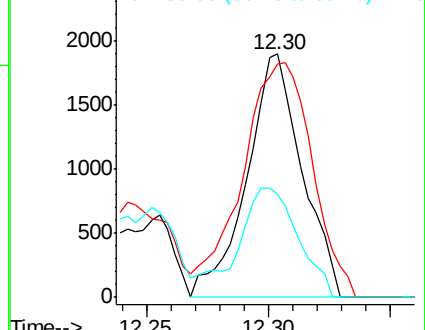
89 42.2 24.6 73.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 2.02 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051832.D

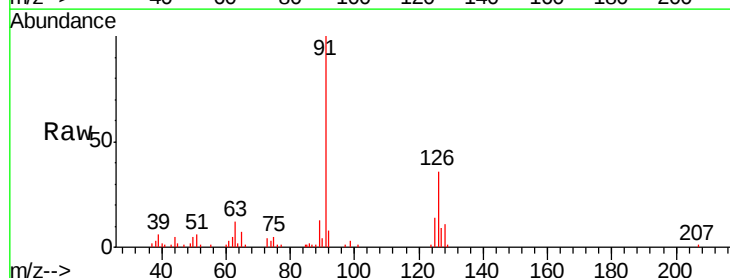
Acq: 12 Oct 2018 15:01

Tgt Ion: 91 Resp: 43357

Ion Ratio Lower Upper

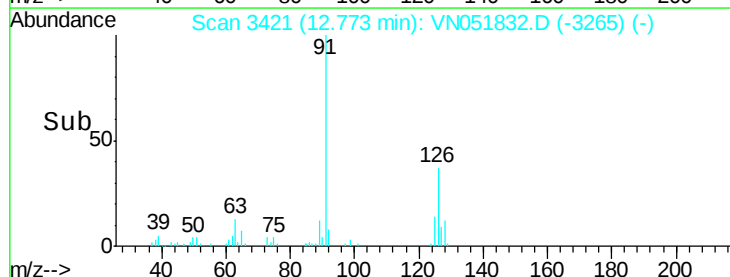
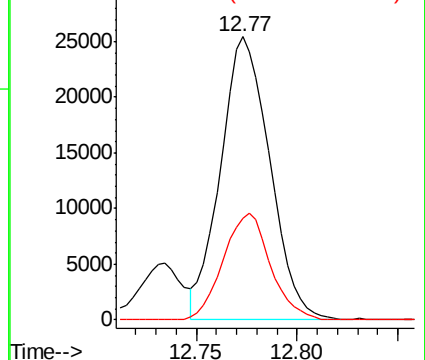
91 100

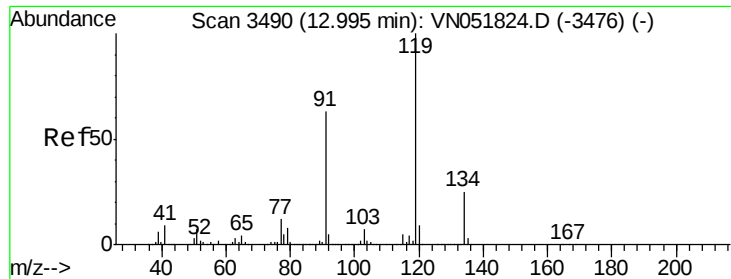
126 36.1 0.0 65.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

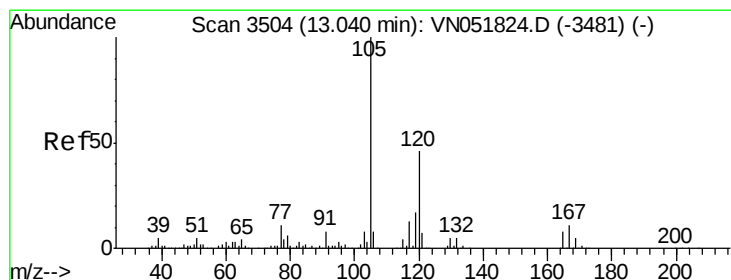
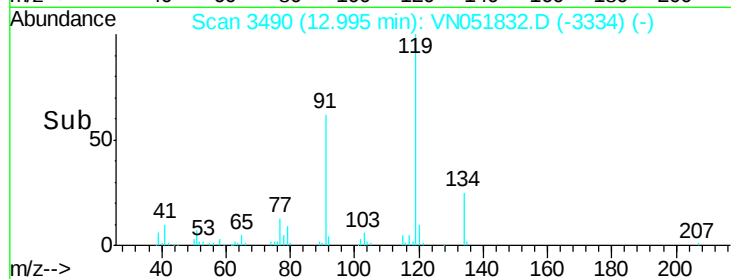
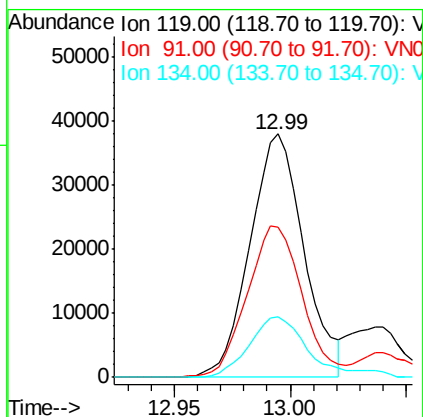
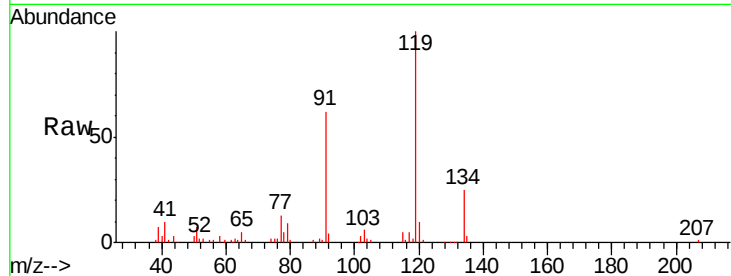




#79
tert-butylbenzene
Concen: 2.34 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

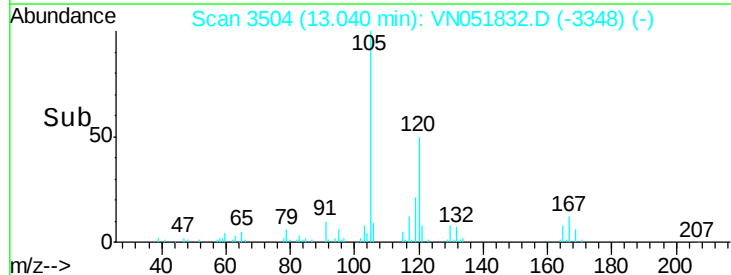
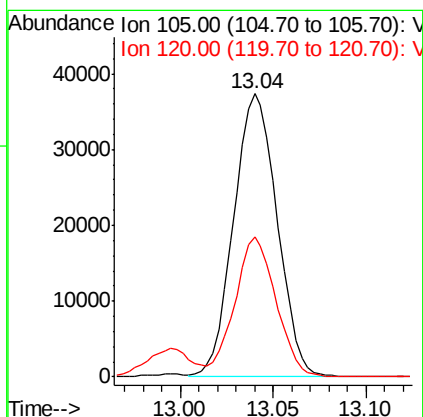
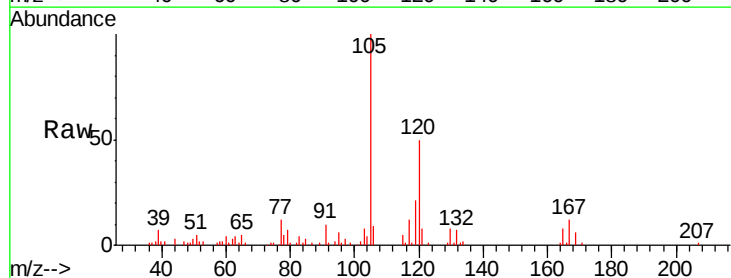
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

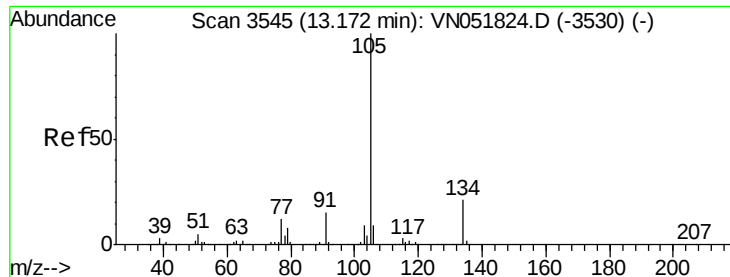
Tgt Ion:119 Resp: 61455
Ion Ratio Lower Upper
119 100
91 63.7 0.0 131.6
134 26.5 0.0 46.2



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

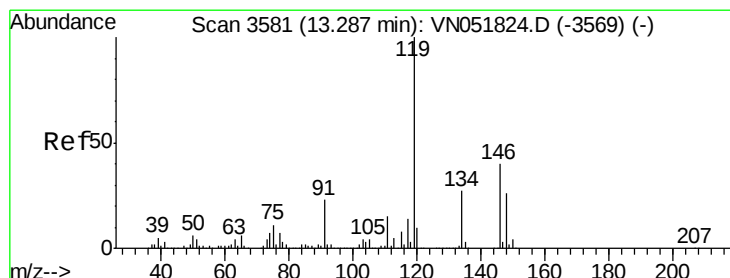
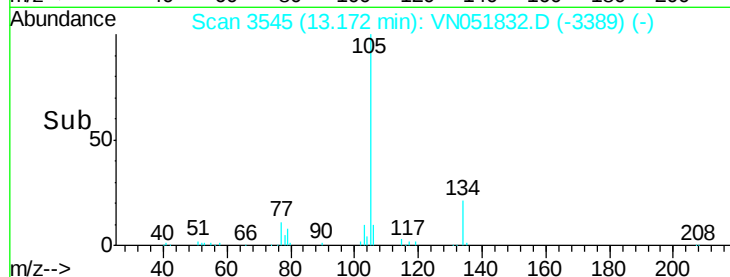
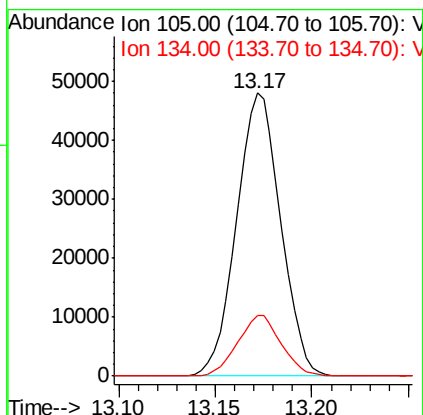
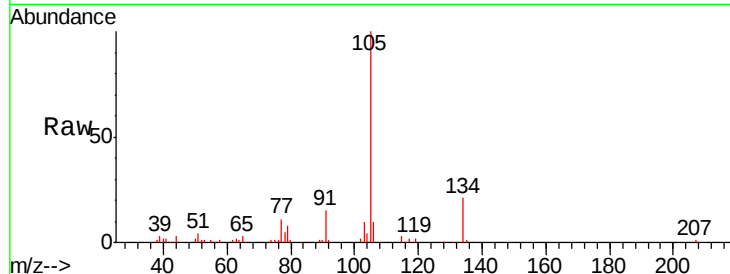




#81
 sec-Butylbenzene
 Concen: 2.22 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

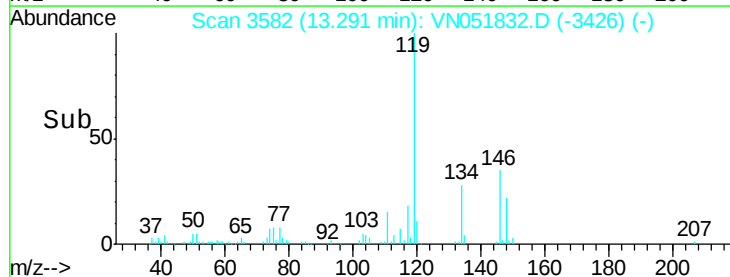
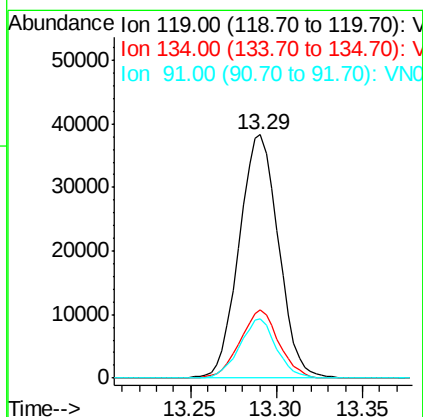
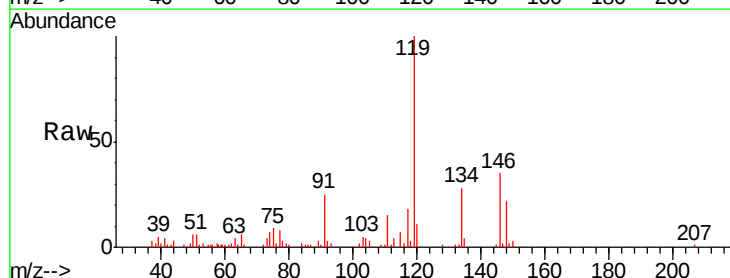
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

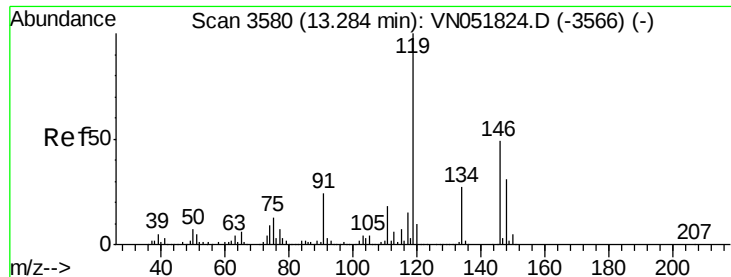
Tgt Ion:105 Resp: 76178
 Ion Ratio Lower Upper
 105 100
 134 21.1 0.0 39.4



#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:119 Resp: 60872
 Ion Ratio Lower Upper
 119 100
 134 27.4 0.0 53.6
 91 22.5 0.0 52.0

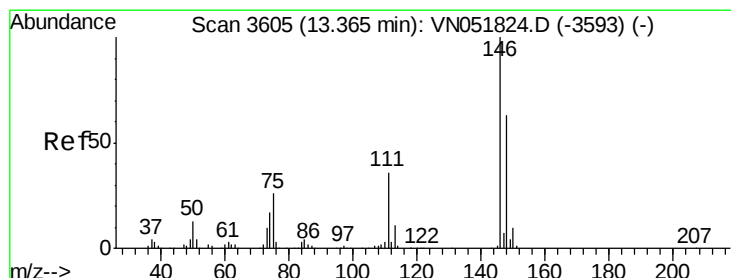
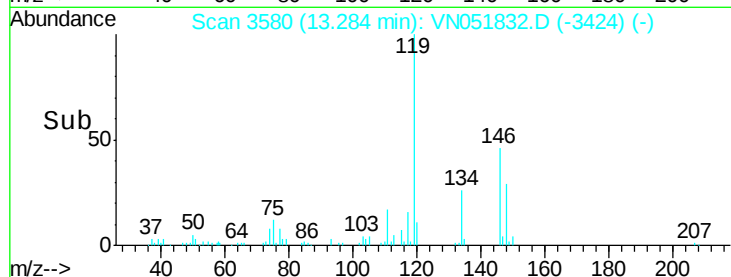
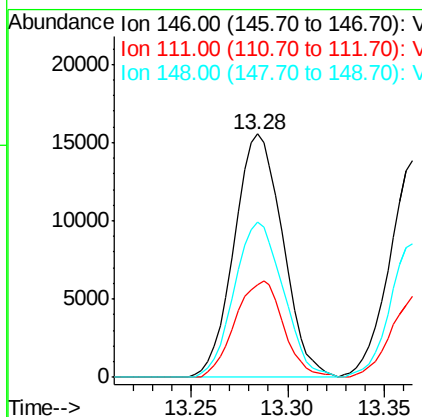
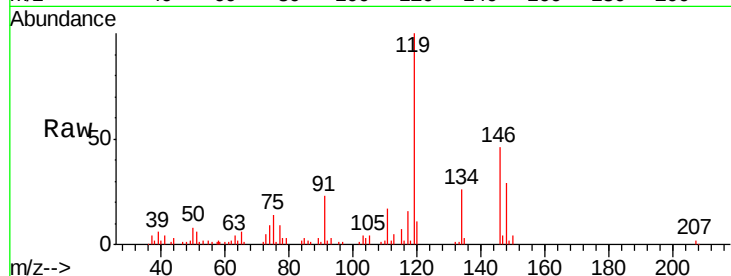




#83
 1,3-Dichlorobenzene
 Concen: 1.80 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

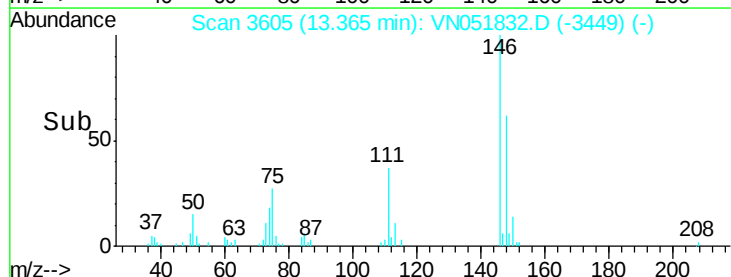
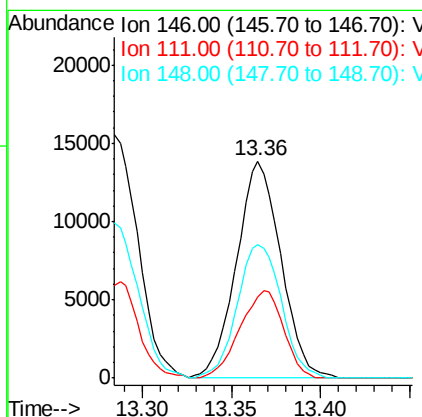
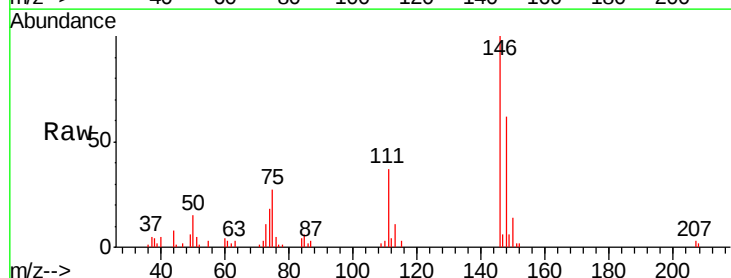
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

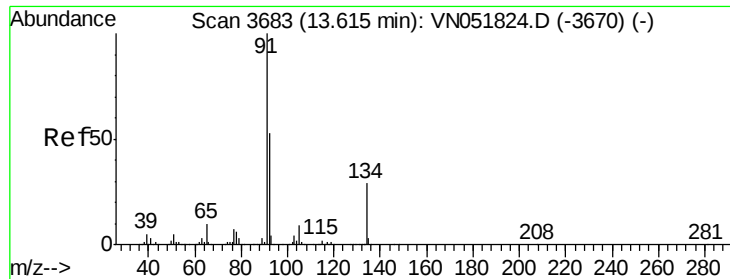
Tgt Ion:146 Resp: 27177
 Ion Ratio Lower Upper
 146 100
 111 39.3 18.1 54.3
 148 64.1 31.3 93.8



#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:146 Resp: 24152
 Ion Ratio Lower Upper
 146 100
 111 39.5 17.4 52.2
 148 61.3 32.8 98.3

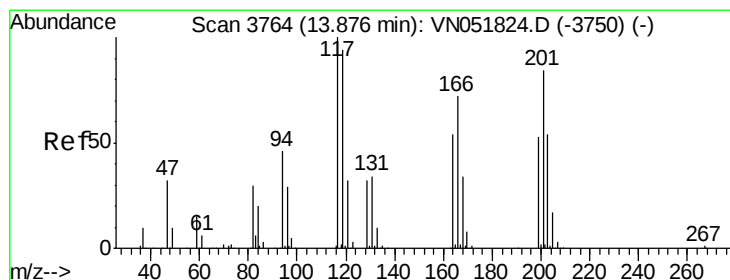
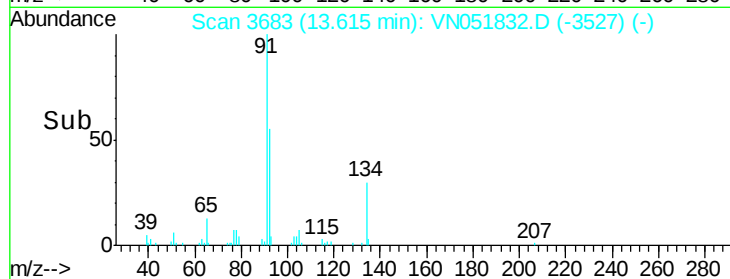
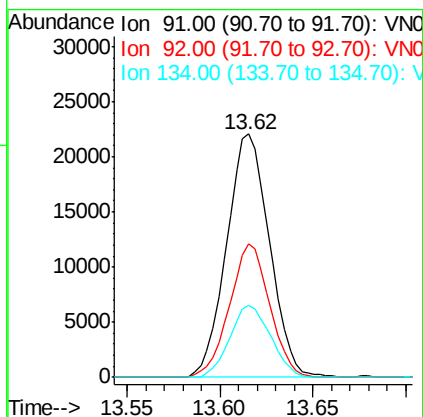
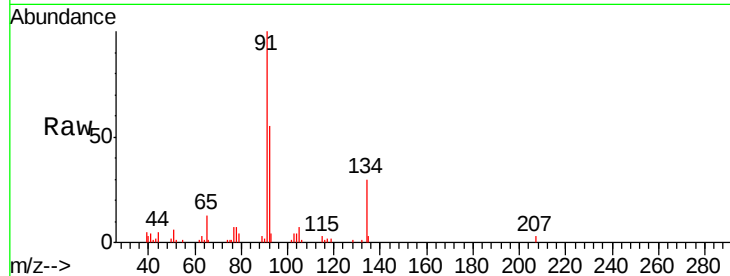




#85
n-Butylbenzene
Concen: 1.52 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

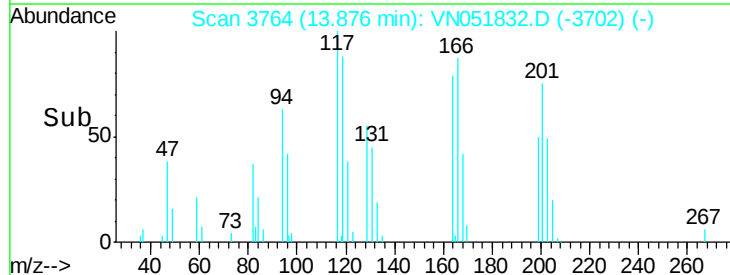
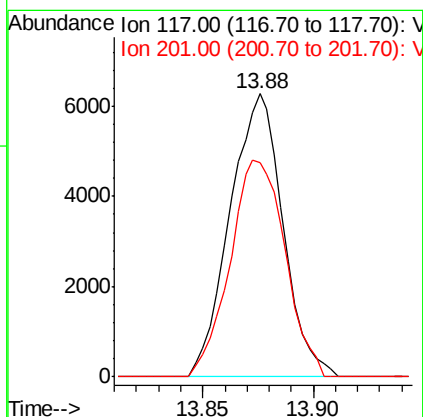
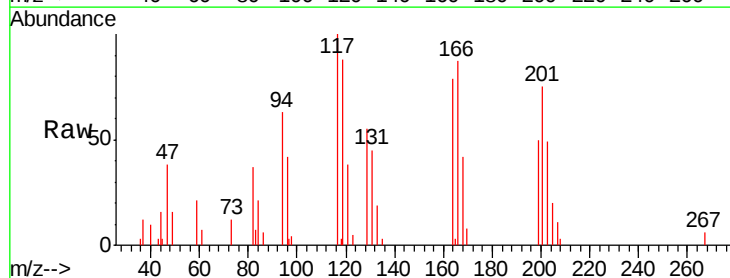
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

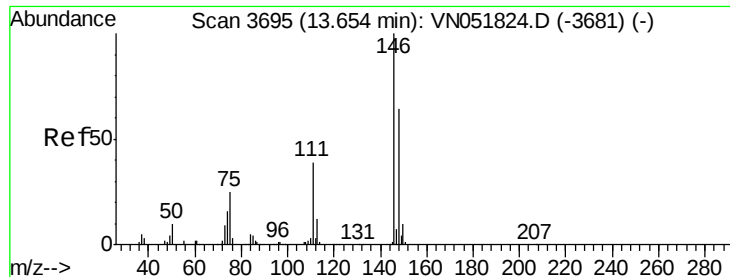
Tgt Ion: 91 Resp: 35314
Ion Ratio Lower Upper
91 100
92 51.4 0.0 97.4
134 28.1 0.0 49.6



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

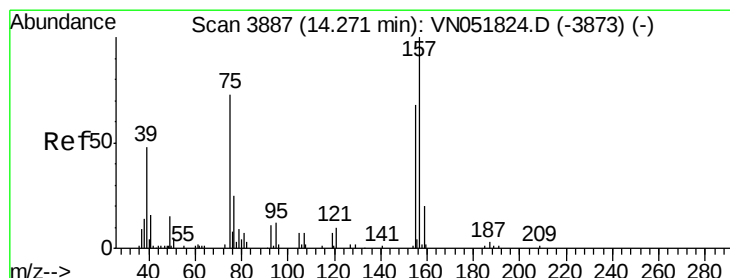
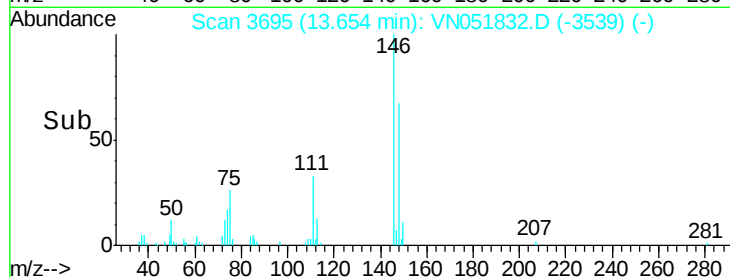
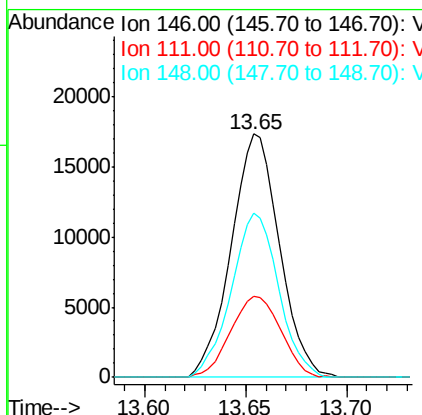
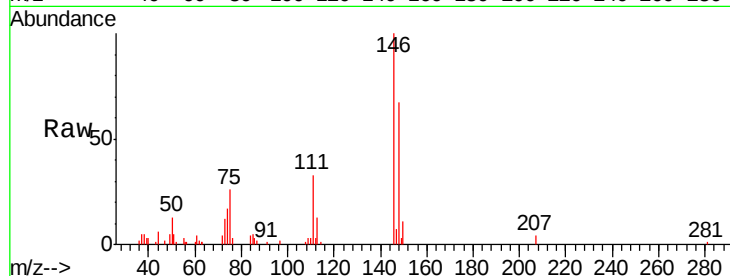




#87
 1,2-Dichlorobenzene
 Concen: 1.99 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

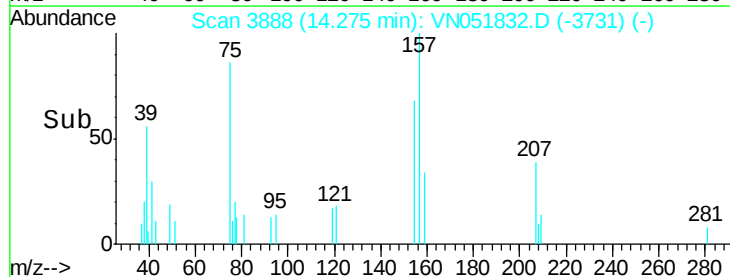
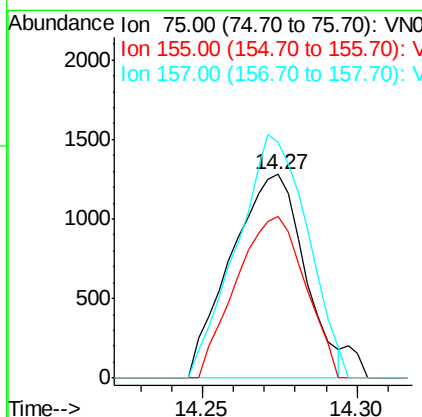
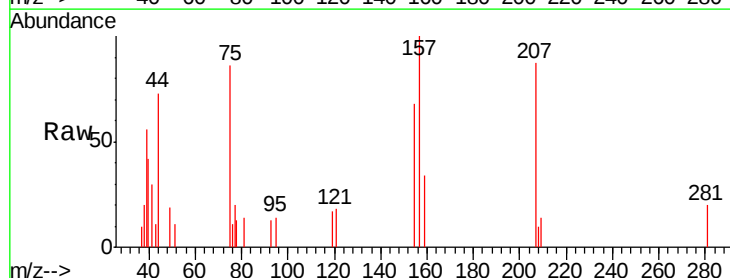
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

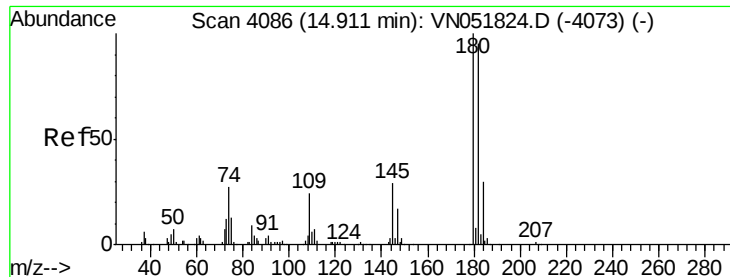
Tgt Ion: 146 Resp: 29052
 Ion Ratio Lower Upper
 146 100
 111 34.6 20.8 62.2
 148 66.1 33.2 99.6



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

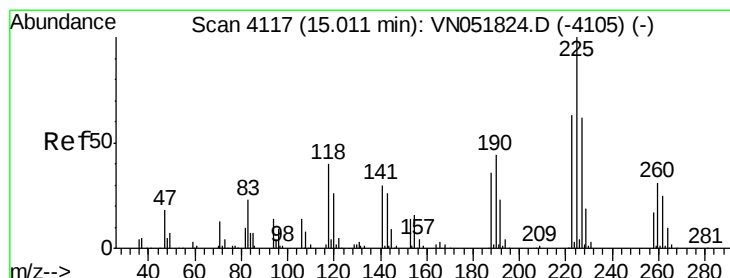
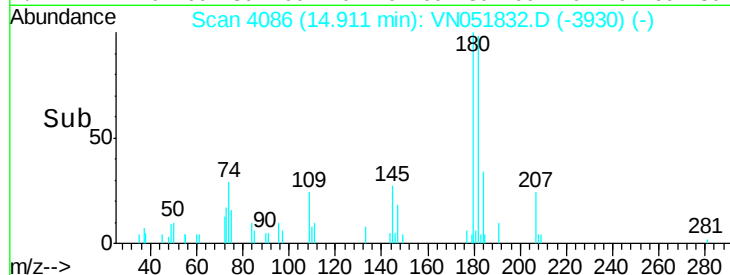
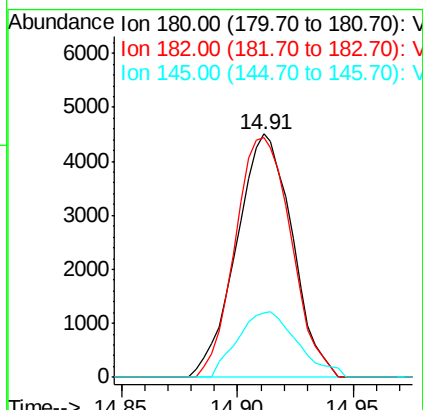
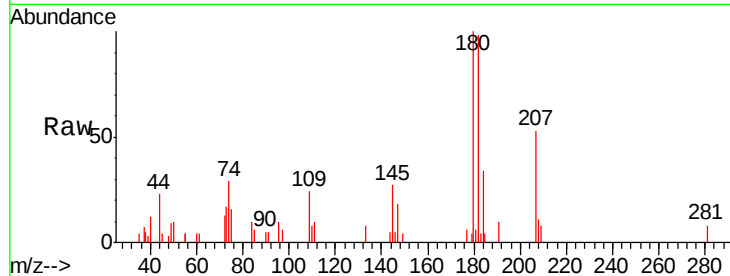




#89
 1,2,4-Trichlorobenzene
 Concen: 8.51 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051832.D
 Acq: 12 Oct 2018 15:01

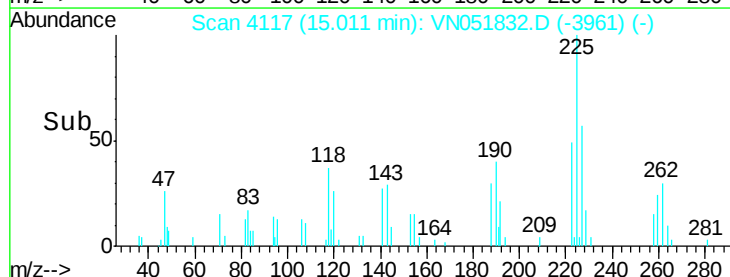
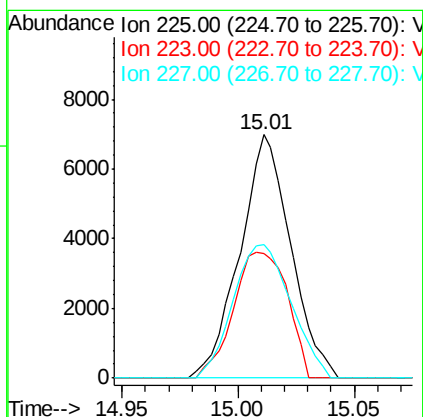
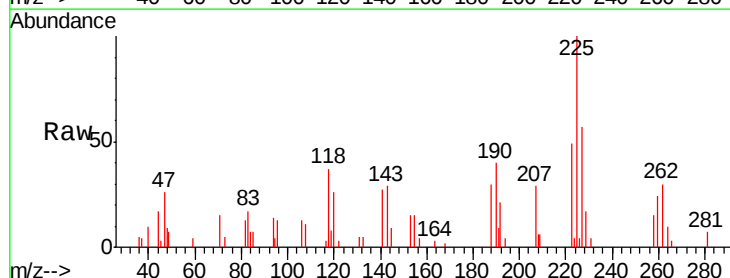
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

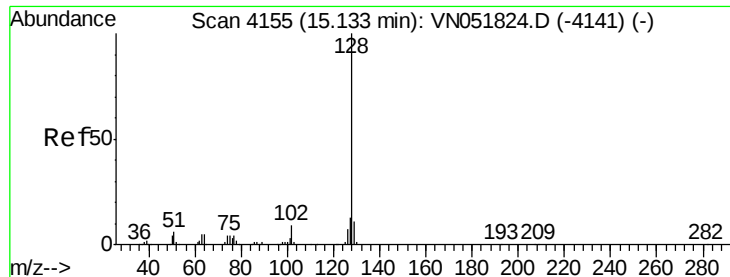
Tgt Ion:180 Resp: 7516
 Ion Ratio Lower Upper
 180 100
 182 99.0 77.7 116.5
 145 28.5 23.4 35.2



#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:225 Resp: 10625
 Ion Ratio Lower Upper
 225 100
 223 55.0 0.0 117.0
 227 62.2 0.0 127.0

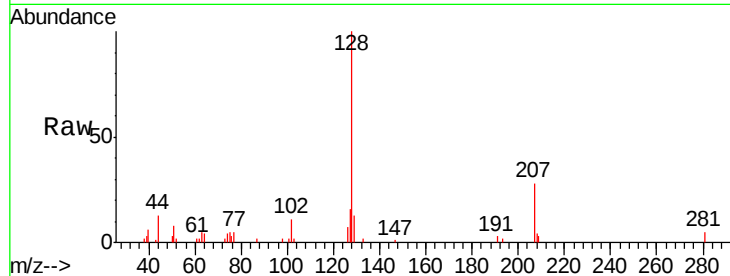




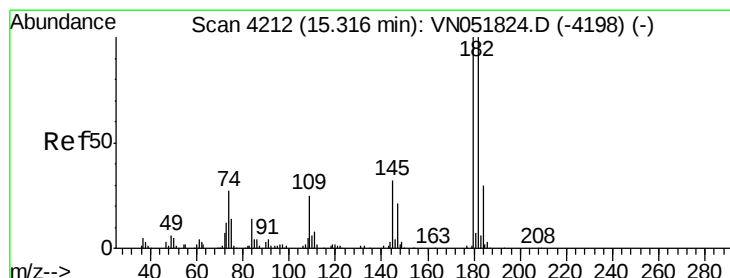
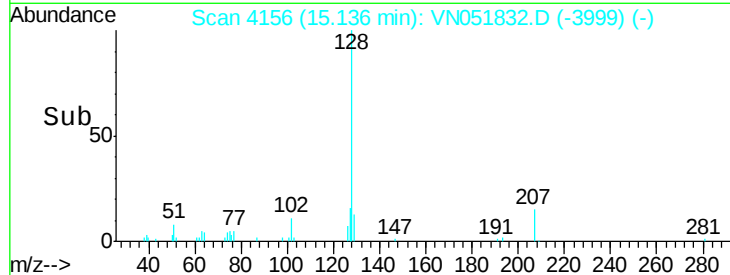
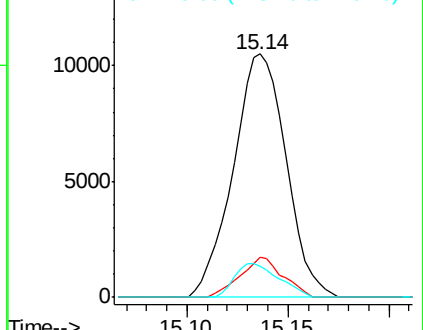
#91
Naphthalene
Concen: 9.50 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

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

Tgt Ion:128 Resp: 19298
Ion Ratio Lower Upper
128 100
127 13.3 10.1 15.1
129 11.6 8.4 12.6

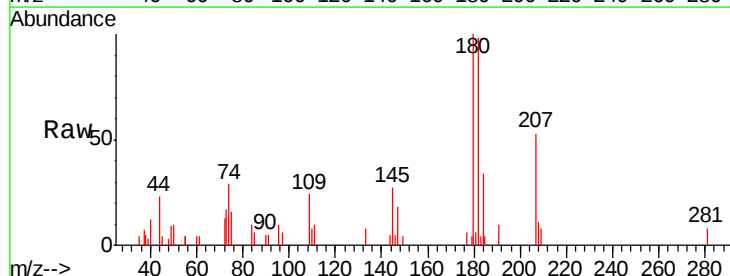


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 1.13 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. -0.40 min
Lab File: VN051832.D
Acq: 12 Oct 2018 15:01

Tgt Ion:180 Resp: 7516
Ion Ratio Lower Upper
180 100
182 99.0 0.0 198.0
145 28.5 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

