

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052318.D
 Acq On : 14 Nov 2018 17:35
 Operator : MD\SY
 Sample : J5164-09 2.5ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Quant Time: Nov 15 04:01:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	246807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	435975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	374788	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146966	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	186573	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
35) Dibromofluoromethane	7.59	113	142953	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
50) Toluene-d8	10.09	98	541094	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
62) 4-Bromofluorobenzene	12.40	95	164795	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.85	85	5651	2.161	ug/l	96
3) Chloromethane	2.06	50	9475	2.607	ug/l	97
4) Vinyl Chloride	2.19	62	8273	2.633	ug/l	96
5) Bromomethane	2.57	94	5611	2.865	ug/l	94
6) Chloroethane	2.71	64	4726	2.661	ug/l	94
7) Trichlorofluoromethane	3.02	101	11390	2.620	ug/l	99
8) Diethyl Ether	3.41	74	4540	2.740	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	4184	1.524	ug/l #	40
10) Methyl Iodide	3.96	142	8385	2.275	ug/l #	91
11) Tert butyl alcohol	4.79	59	2048	11.125	ug/l #	72
12) 1,1-Dichloroethene	3.74	96	6431	2.531	ug/l #	88
13) Acrolein	3.61	56	3819	34.327	ug/l	88
14) Allyl chloride	4.33	41	13498	2.587	ug/l	98
15) Acrylonitrile	5.00	53	13983	13.302	ug/l	92
16) Acetone	3.82	43	10288	10.719	ug/l	91
17) Carbon Disulfide	4.06	76	18301	2.512	ug/l	99
18) Methyl Acetate	4.33	43	4751	2.183	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	19648	2.691	ug/l	94
20) Methylene Chloride	4.56	84	9454	2.573	ug/l #	95
21) trans-1,2-Dichloroethene	5.05	96	7641	2.793	ug/l	94
22) Diisopropyl ether	5.96	45	26884	2.526	ug/l #	89
23) Vinyl Acetate	5.90	43	78907	10.928	ug/l	96
24) 1,1-Dichloroethane	5.85	63	15768	2.763	ug/l #	95
25) 2-Butanone	6.84	43	16101	11.918	ug/l	94
26) 2,2-Dichloropropane	6.82	77	10686	2.546	ug/l	89
27) cis-1,2-Dichloroethene	6.83	96	8651	2.717	ug/l	91
28) Bromochloromethane	7.20	49	7428	2.531	ug/l #	95
29) Tetrahydrofuran	7.21	42	10821	12.193	ug/l	98
30) Chloroform	7.37	83	23524	4.325	ug/l	100
31) Cyclohexane	7.66	56	19365	2.650	ug/l #	72
32) 1,1,1-Trichloroethane	7.57	97	12240	2.642	ug/l	98
36) 1,1-Dichloropropene	7.79	75	11396	2.608	ug/l	97
37) Ethyl Acetate	6.93	43	7738	2.440	ug/l #	90
38) Carbon Tetrachloride	7.77	117	10476	2.609	ug/l	88

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	12305	2.467	ug/l	96
40) Benzene	8.04	78	31488	2.522	ug/l	99
41) Methacrylonitrile	7.17	41	4866	6.254	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	12243	2.750	ug/l	93
43) Isopropyl Acetate	8.17	43	15219	2.487	ug/l #	93
44) Trichloroethene	8.83	130	8068	2.624	ug/l	96
45) 1,2-Dichloropropane	9.12	63	8773	2.476	ug/l	99
46) Dibromomethane	9.21	93	5882	2.868	ug/l	94
47) Bromodichloromethane	9.40	83	10884	2.586	ug/l #	89
48) Methyl methacrylate	9.20	41	7237	2.331	ug/l	92
49) 1,4-Dioxane	9.19	88	1085	45.517	ug/l #	47
51) 4-Methyl-2-Pentanone	9.99	43	37573	12.197	ug/l	98
52) Toluene	10.16	92	19234	2.576	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	9259	2.181	ug/l #	85
54) cis-1,3-Dichloropropene	9.84	75	10307	2.130	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	6548	2.419	ug/l	94
56) Ethyl methacrylate	10.43	69	8591	2.413	ug/l	96
57) 1,3-Dichloropropane	10.71	76	12302	2.566	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.70	63	23125	11.409	ug/l	98
59) 2-Hexanone	10.75	43	24601	11.611	ug/l	97
60) Dibromochloromethane	10.90	129	6733	2.299	ug/l	97
61) 1,2-Dibromoethane	11.00	107	6676	2.476	ug/l	90
64) Tetrachloroethene	10.63	164	7205	2.704	ug/l	89
65) Chlorobenzene	11.43	112	21208	2.677	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	7153	2.648	ug/l	99
67) Ethyl Benzene	11.51	91	33730	2.453	ug/l	94
68) m/p-Xylenes	11.62	106	24404	4.858	ug/l	99
69) o-Xylene	11.94	106	11816	2.454	ug/l	95
70) Styrene	11.96	104	18702	2.425	ug/l	97
71) Bromoform	12.13	173	3447	2.161	ug/l #	92
73) Isopropylbenzene	12.25	105	30704	2.599	ug/l	96
74) N-amyl acetate	12.07	43	11066	2.629	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	8825	3.090	ug/l	94
76) 1,2,3-Trichloropropane	12.55	75	10526	4.221	ug/l #	100
77) Bromobenzene	12.53	156	7571	2.754	ug/l	97
78) n-propylbenzene	12.59	91	35619	2.578	ug/l	100
79) 2-Chlorotoluene	12.67	91	21715	2.690	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	24833	2.643	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	92489	120.292	ug/l #	5
82) 4-Chlorotoluene	12.77	91	21117	2.553	ug/l	100
83) tert-Butylbenzene	12.99	119	21619	2.606	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	22955	2.433	ug/l	99
85) sec-Butylbenzene	13.17	105	29331	2.596	ug/l	100
86) p-Isopropyltoluene	13.29	119	22228	2.322	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	12844	2.630	ug/l	94
88) 1,4-Dichlorobenzene	13.36	146	13247	2.729	ug/l	94
89) n-Butylbenzene	13.61	91	18560	2.257	ug/l	98
90) Hexachloroethane	13.87	117	3807	2.245	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	12604	2.664	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	637	1.512	ug/l #	38

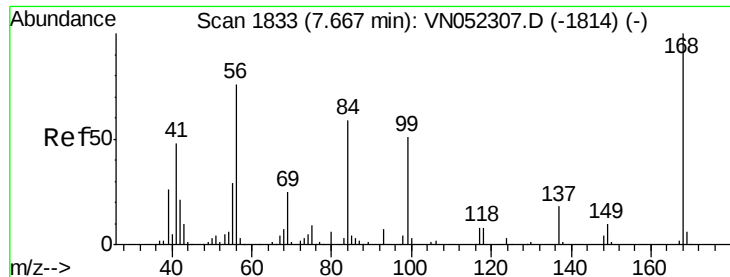
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	3234	3.660	ug/l	84
94) Hexachlorobutadiene	15.01	225	2916	2.693	ug/l	94
95) Naphthalene	15.13	128	7360	3.946	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	3461	1.925	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

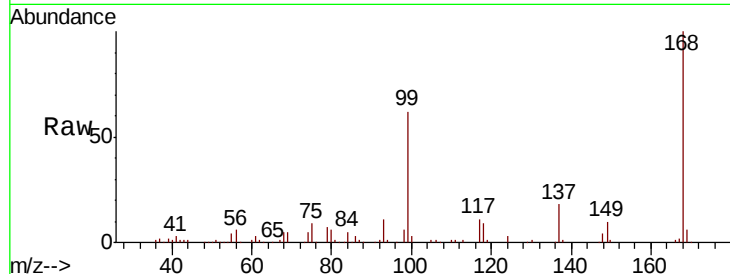
MDL-WATER-03-QT4-2018

Tot Ion:168 Resp: 246807

Ion Ratio Lower Upper

168 100

99 62.3 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

120000

100000

80000

60000

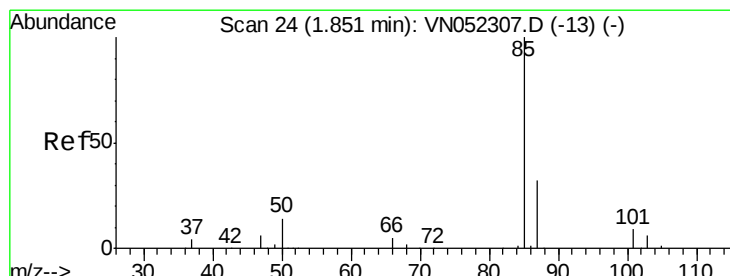
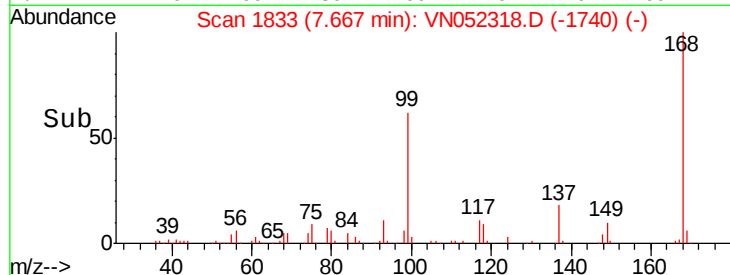
40000

20000

0

Time-->

7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 2.161 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052318.D

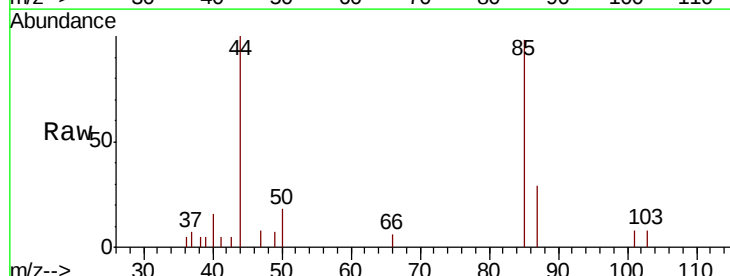
Acq: 14 Nov 2018 17:35

Tgt Ion: 85 Resp: 5651

Ion Ratio Lower Upper

85 100

87 29.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

4000

3000

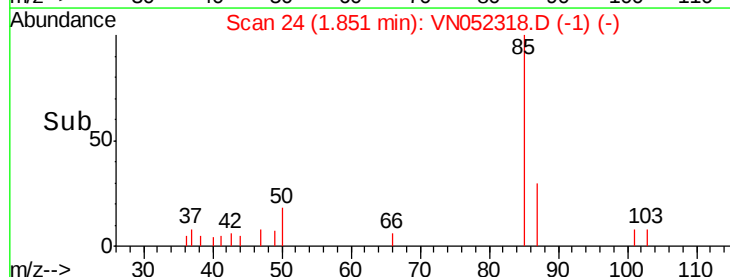
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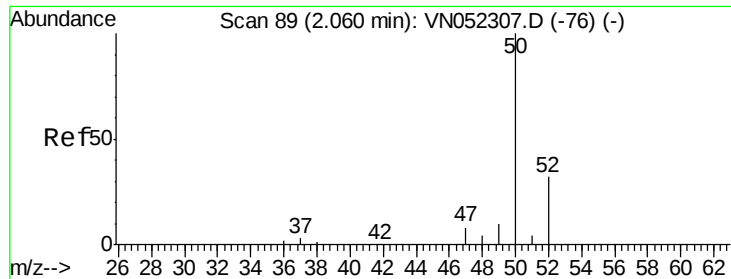
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0

Time-->

1.80 1.85 1.90

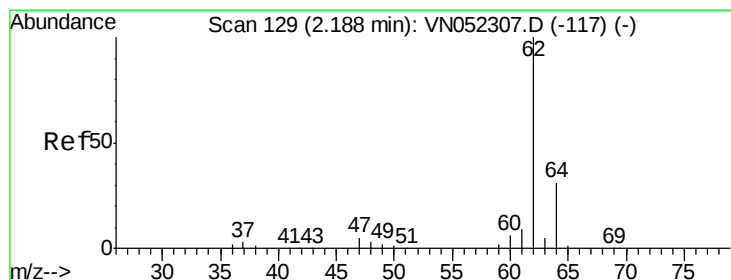
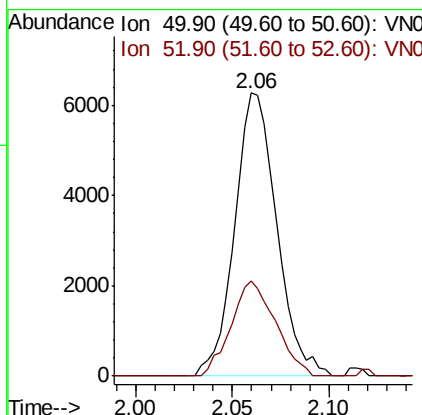
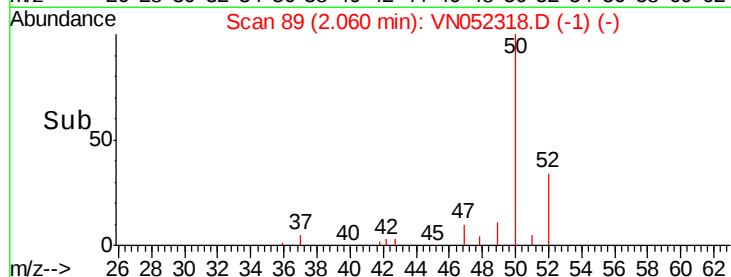
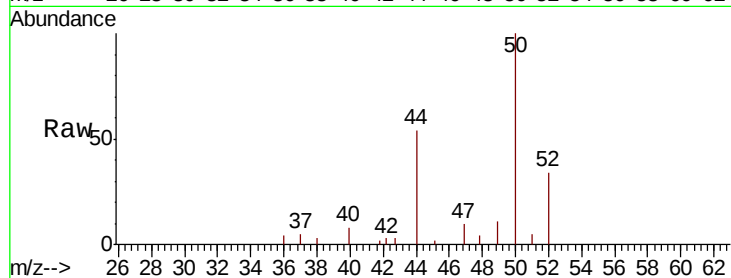




#3
 Chloromethane
 Concen: 2.607 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

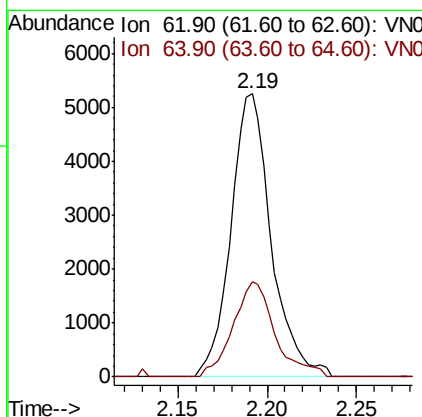
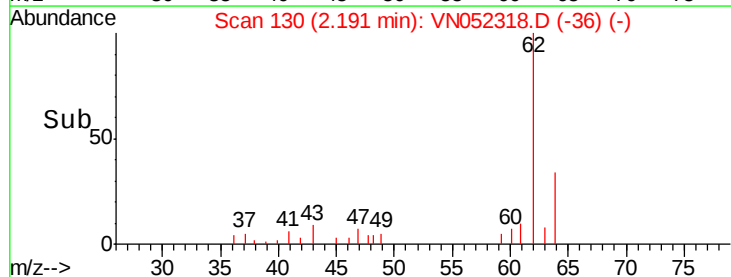
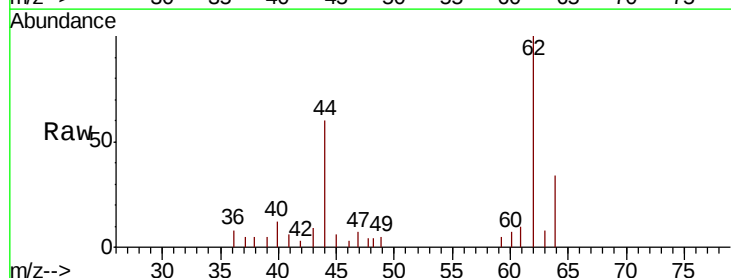
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

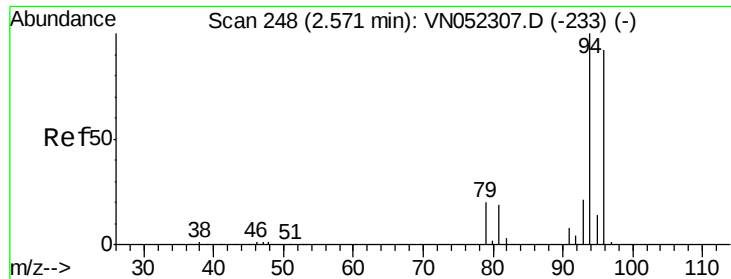
Tot Ion: 50 Resp: 9475
 Ion Ratio Lower Upper
 50 100
 52 33.6 25.5 38.3



#4
 Vinyl Chloride
 Concen: 2.633 ug/l
 RT: 2.19 min Scan# 130
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 62 Resp: 8273
 Ion Ratio Lower Upper
 62 100
 64 33.8 25.2 37.8





#5

Bromomethane

Concen: 2.865 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

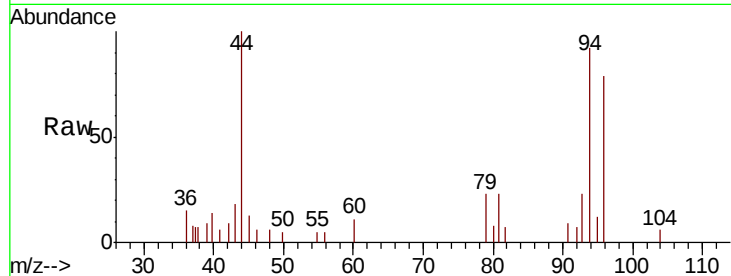
MDL-WATER-03-QT4-2018

Tot Ion: 94 Resp: 5611

Ion Ratio Lower Upper

94 100

96 86.1 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

3000

2500

2000

1500

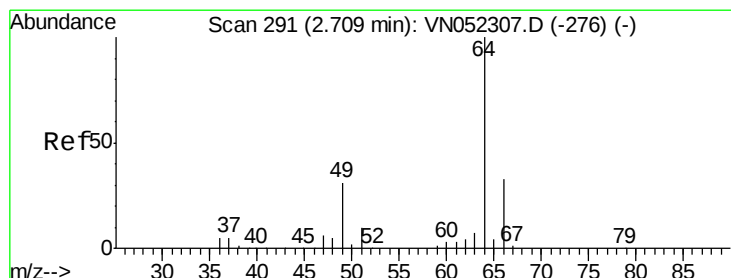
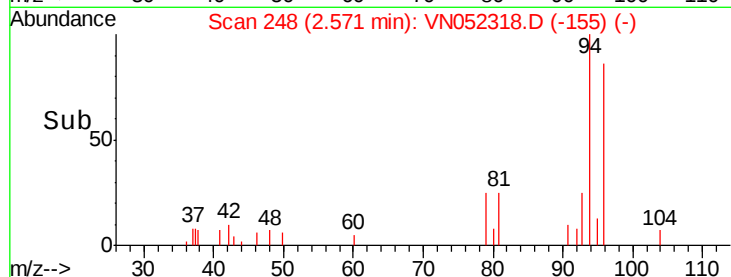
1000

500

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 2.661 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052318.D

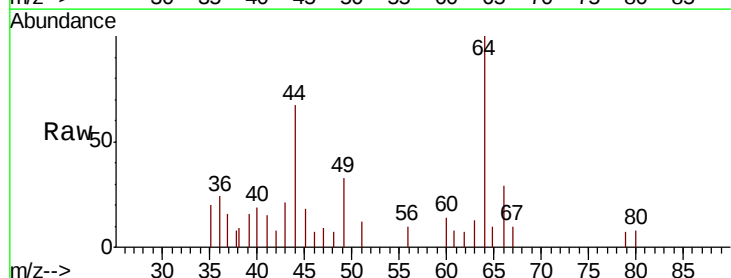
Acq: 14 Nov 2018 17:35

Tgt Ion: 64 Resp: 4726

Ion Ratio Lower Upper

64 100

66 29.4 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

2500

2000

1500

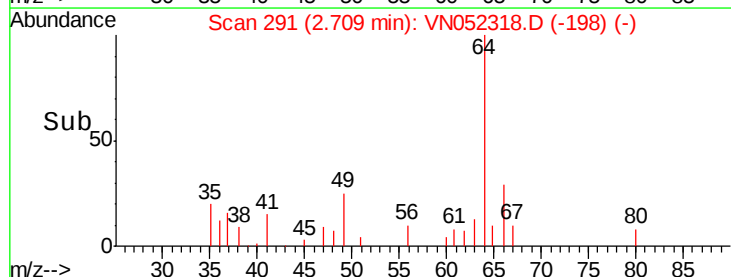
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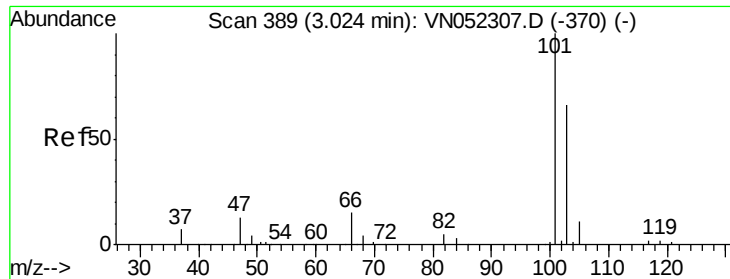
500

0

Time-->

2.65 2.70 2.75



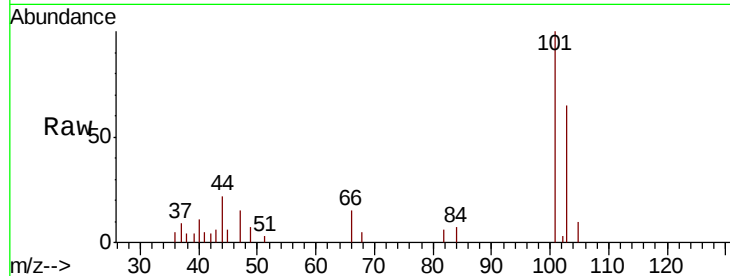


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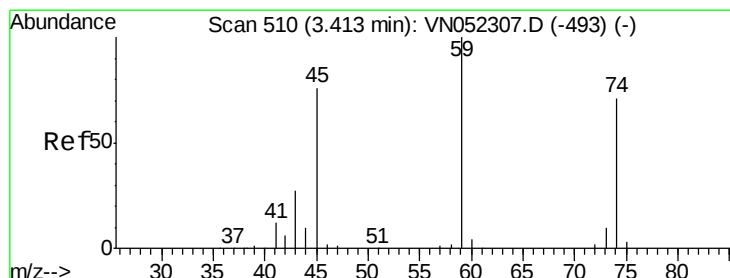
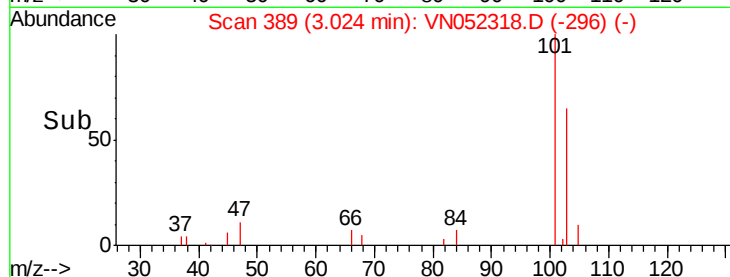
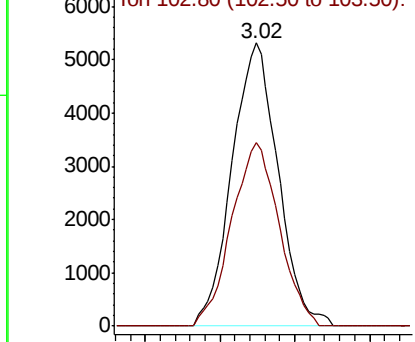
Trichlorofluoromethane
 Concen: 2.620 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tot Ion:101 Resp: 11390
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.8 79.2



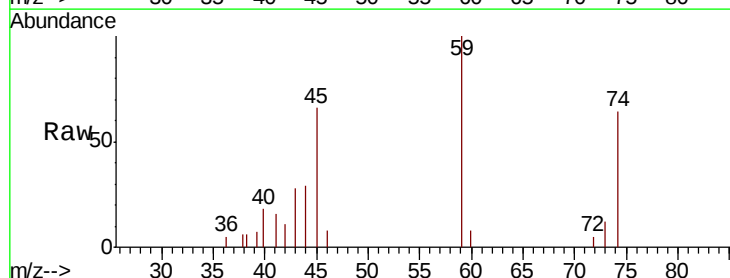
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



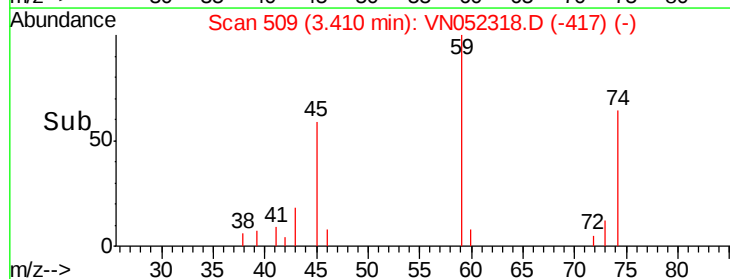
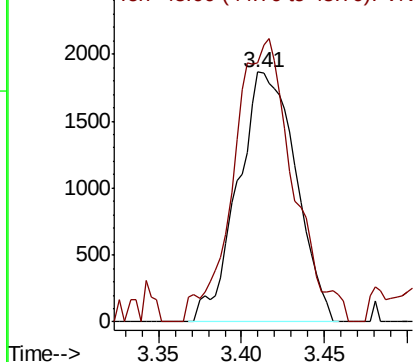
#8

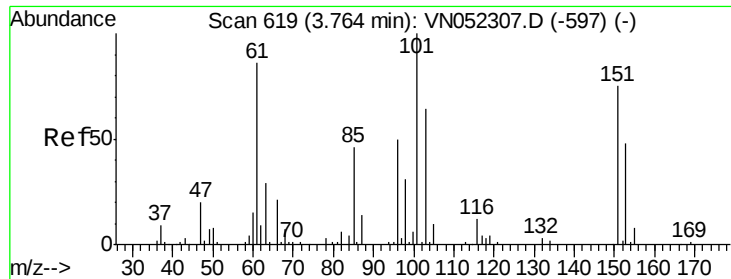
Diethyl Ether
 Concen: 2.740 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 74 Resp: 4540
 Ion Ratio Lower Upper
 74 100
 45 116.3 54.3 162.9



Abundance Ion 74.00 (73.70 to 74.70): VNO
 Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.524 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

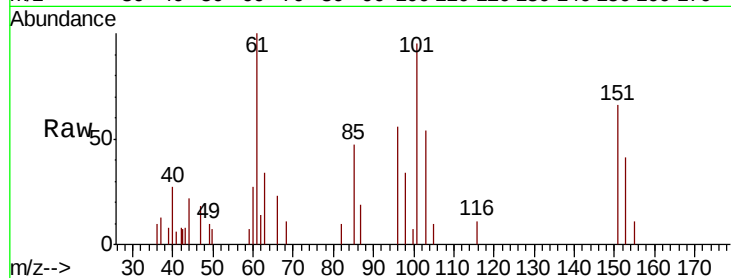
Tot Ion:101 Resp: 4184

Ion Ratio Lower Upper

101 100

85 77.0 37.4 56.0#

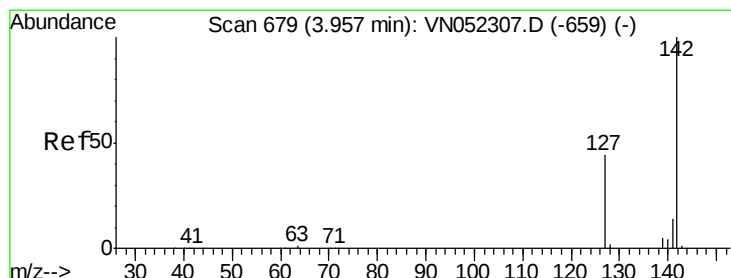
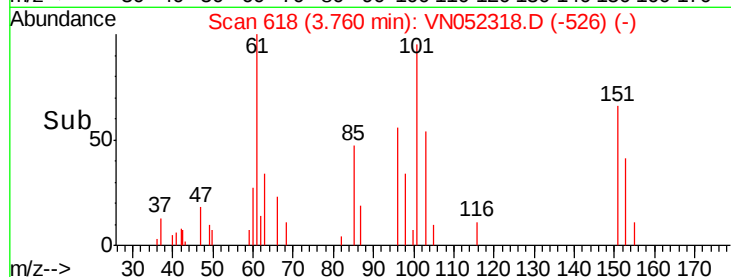
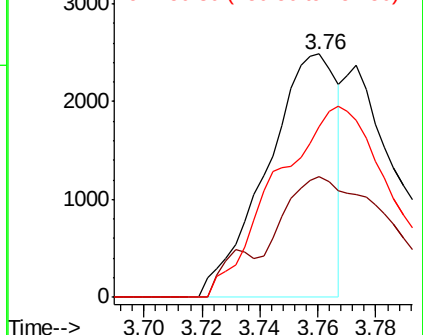
151 131.5 58.6 88.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.275 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

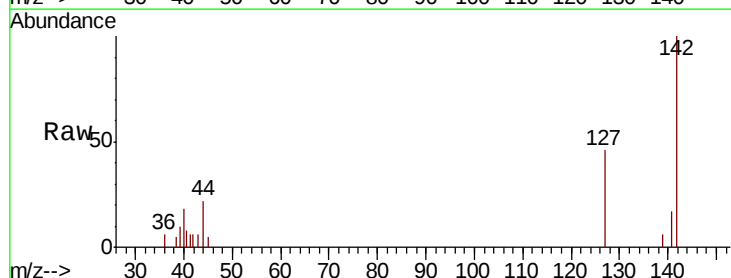
Tgt Ion:142 Resp: 8385

Ion Ratio Lower Upper

142 100

127 51.7 36.3 54.5

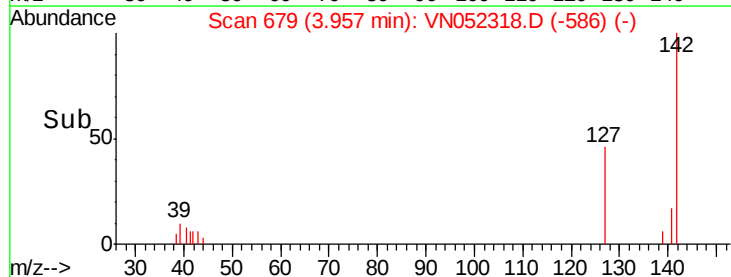
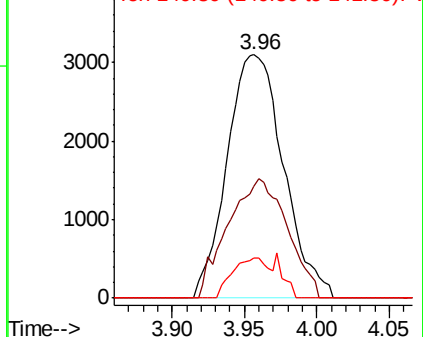
141 10.7 11.4 17.2#

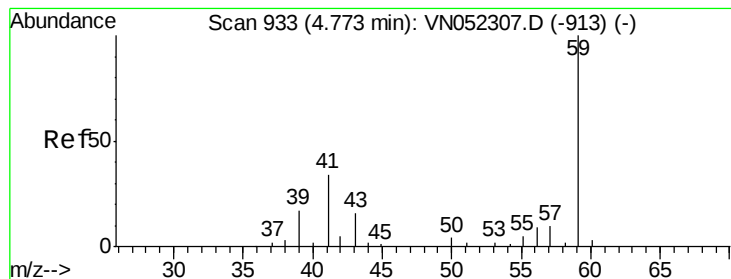


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



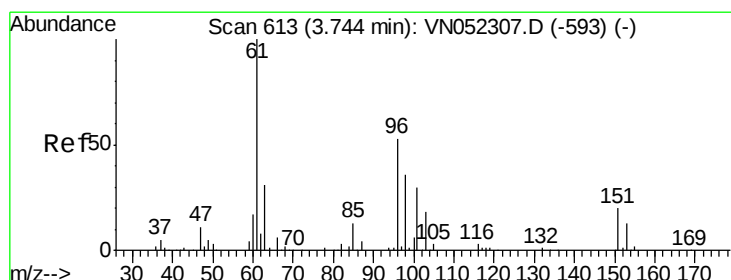
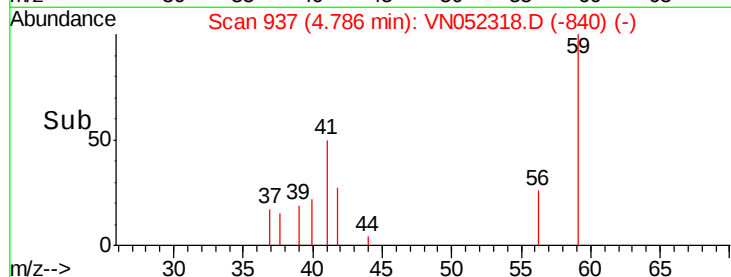
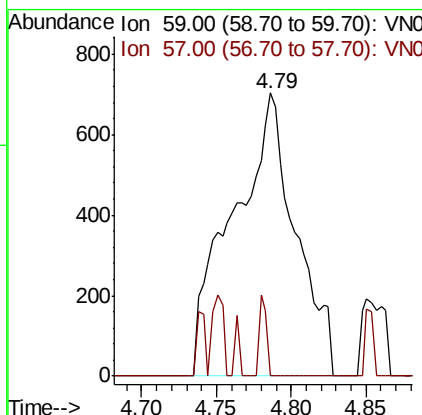
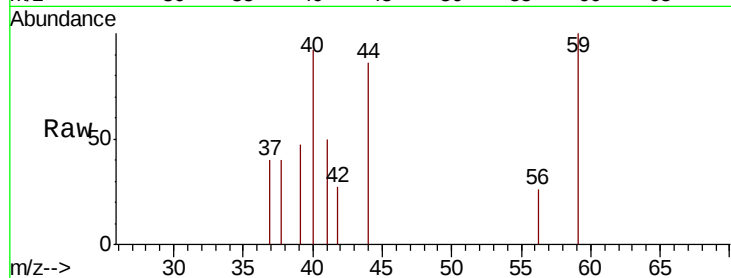


#11

Tert butyl alcohol
 Concen: 11.125 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

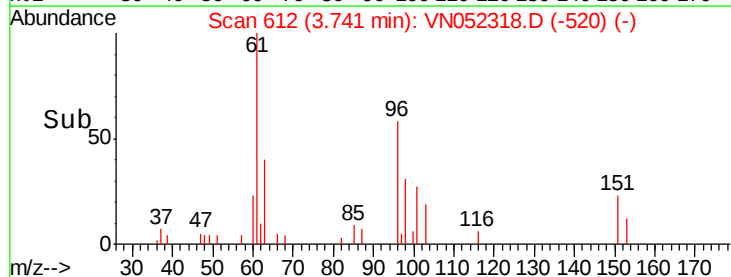
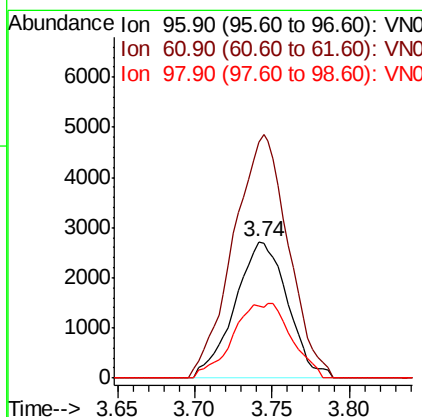
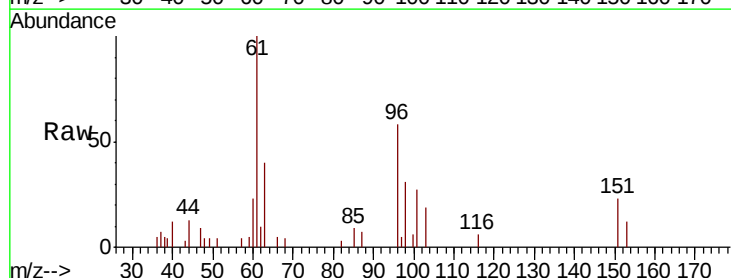
Tot Ion: 59 Resp: 2048
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

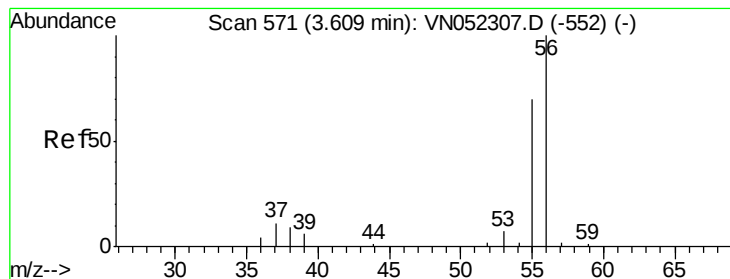


#12

1,1-Dichloroethene
 Concen: 2.531 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 96 Resp: 6431
 Ion Ratio Lower Upper
 96 100
 61 172.7 149.6 224.4
 98 52.9 54.2 81.2#





#13

Acrolein

Concen: 34.327 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

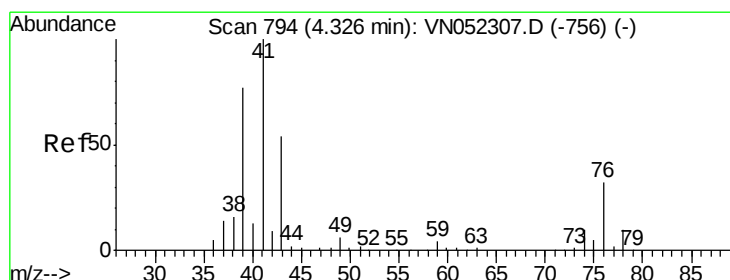
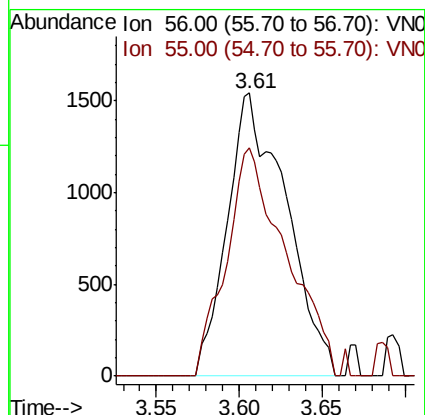
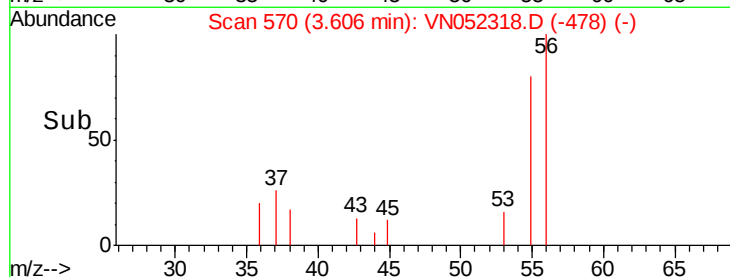
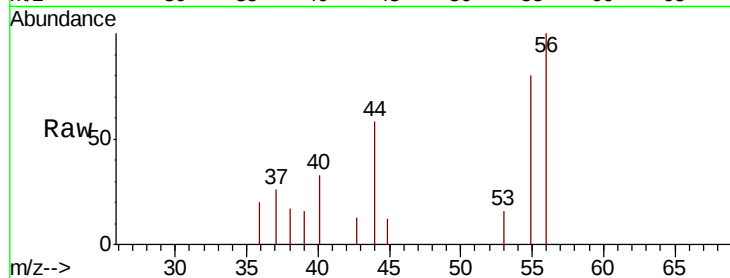
MDL-WATER-03-QT4-2018

Tot Ion: 56 Resp: 3819

Ion Ratio Lower Upper

56 100

55 82.0 57.6 86.4



#14

Allyl chloride

Concen: 2.587 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

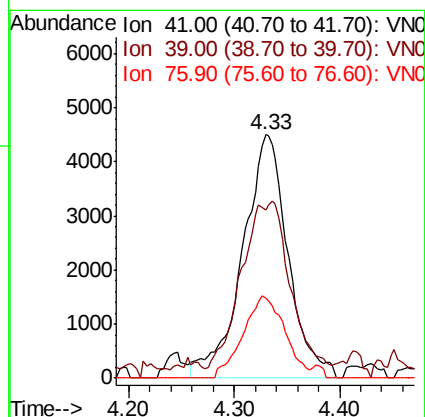
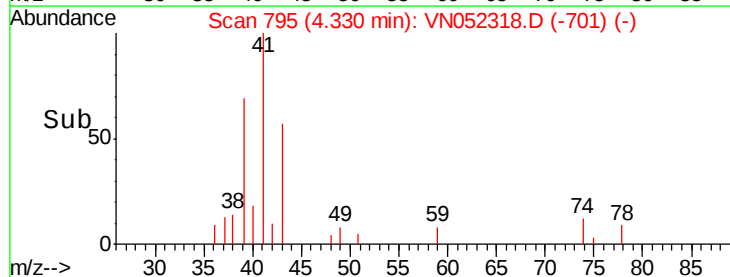
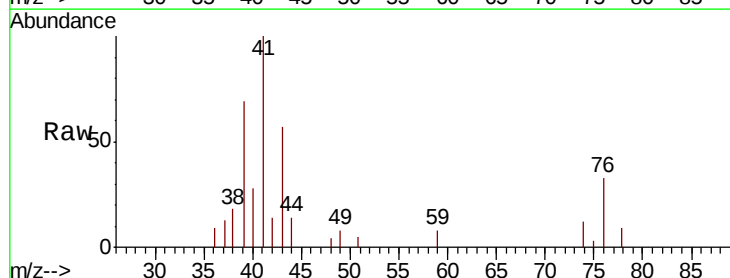
Tgt Ion: 41 Resp: 13498

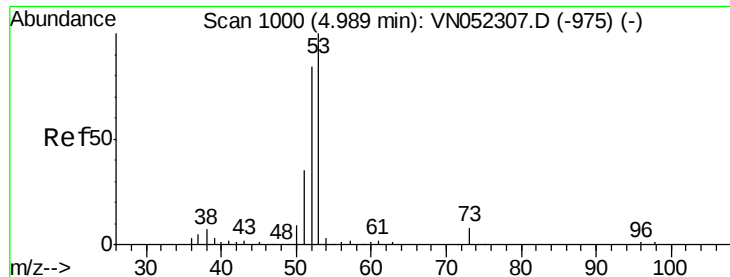
Ion Ratio Lower Upper

41 100

39 72.0 59.1 88.7

76 30.9 24.1 36.1





#15

Acrylonitrile

Concen: 13.302 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

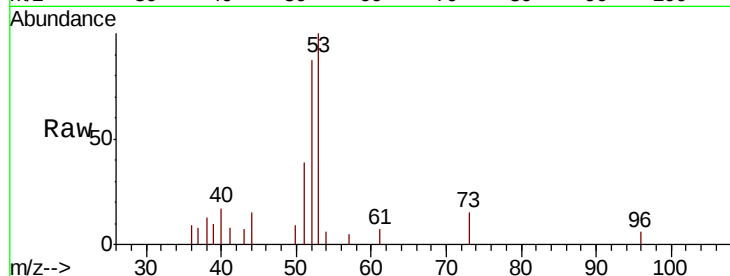
Tot Ion: 53 Resp: 13983

Ion Ratio Lower Upper

53 100

52 74.8 67.5 101.3

51 36.5 29.9 44.9

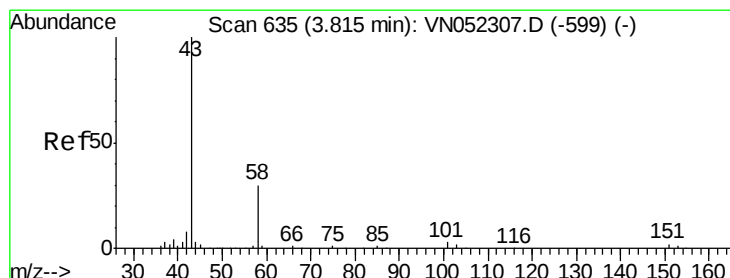
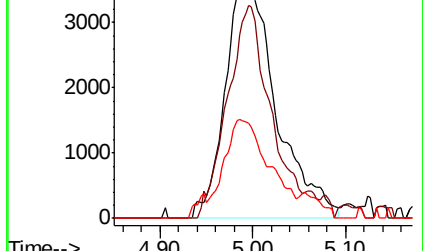
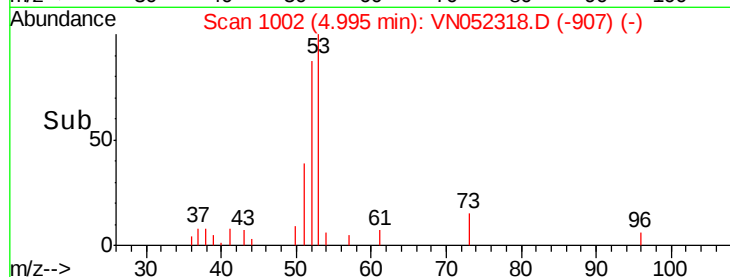


Abundance Ion 53.00 (52.70 to 53.70): VN052307.D (-975) (-)

Ion 52.00 (51.70 to 52.70): VN052307.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VN052307.D (-975) (-)

Time-->



#16

Acetone

Concen: 10.719 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052318.D

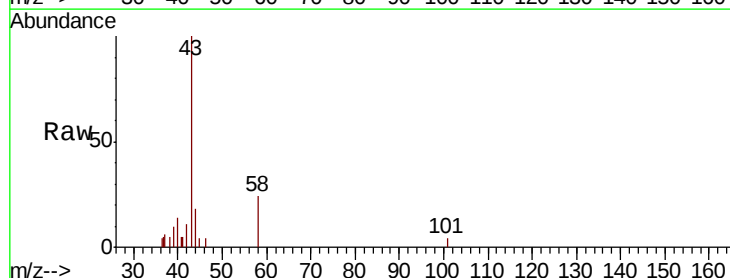
Acq: 14 Nov 2018 17:35

Tgt Ion: 43 Resp: 10288

Ion Ratio Lower Upper

43 100

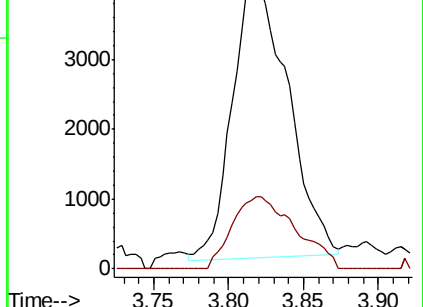
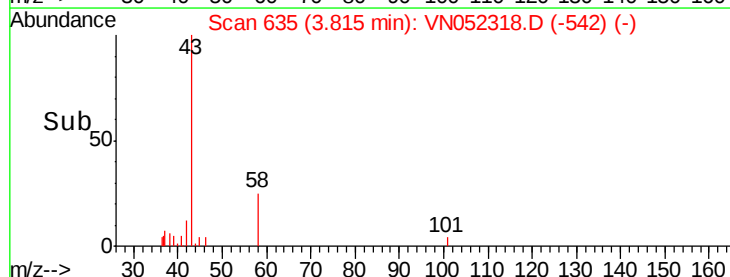
58 25.3 24.2 36.4

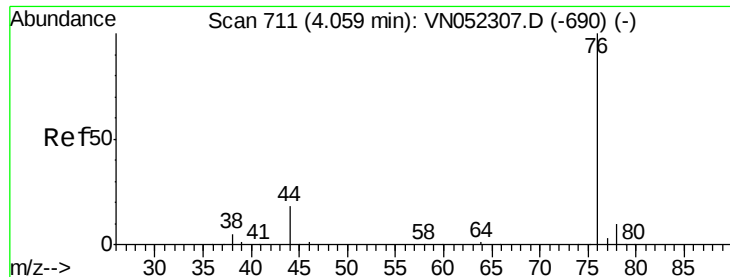


Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-599) (-)

Time-->

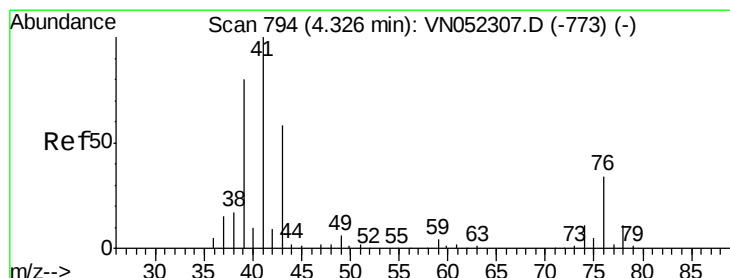
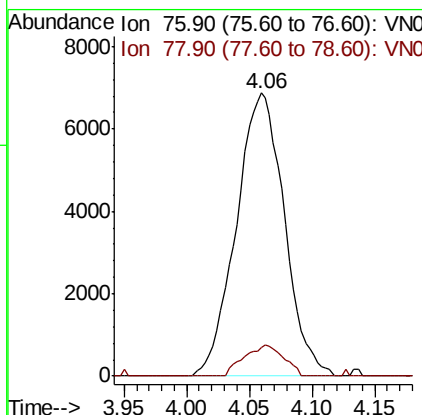
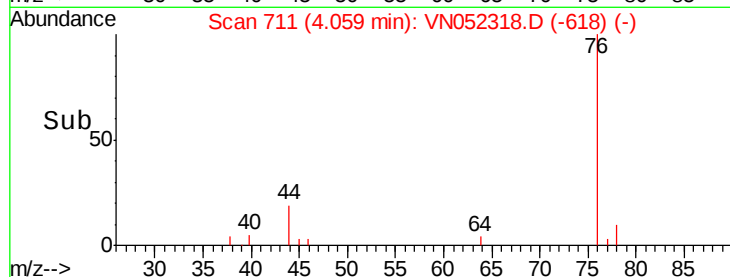
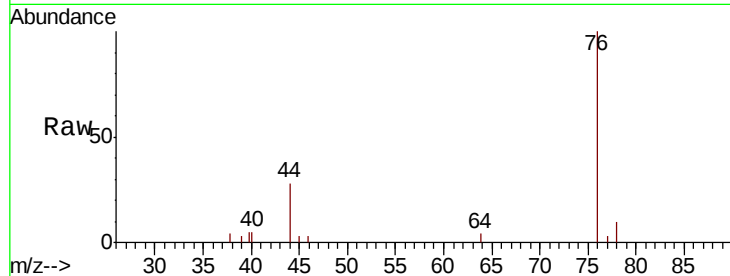




#17
Carbon Disulfide
Concen: 2.512 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

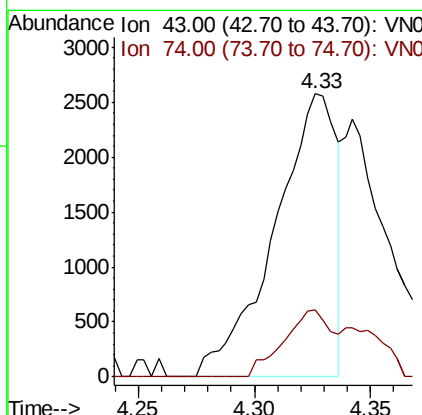
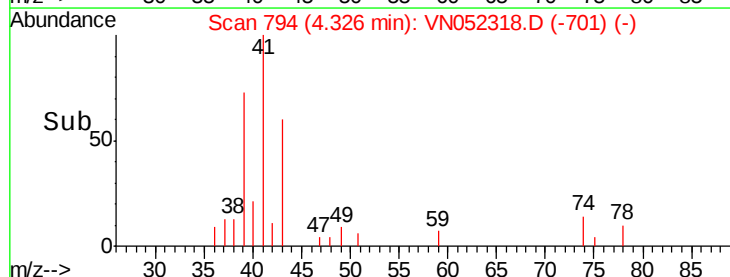
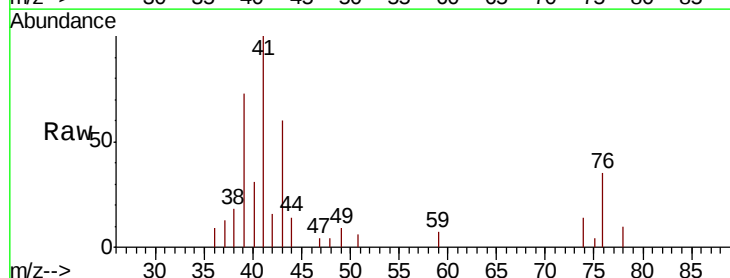
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

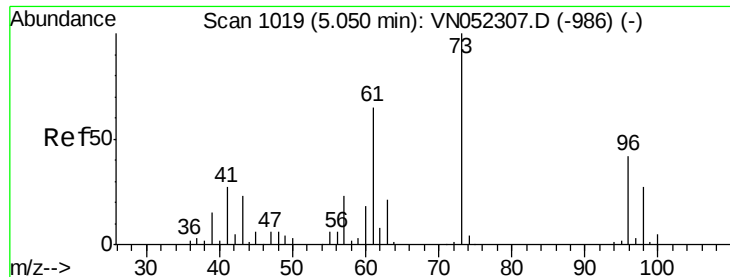
Tot Ion: 76 Resp: 18301
Ion Ratio Lower Upper
76 100
78 9.9 7.7 11.5



#18
Methyl Acetate
Concen: 2.183 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 43 Resp: 4751
Ion Ratio Lower Upper
43 100
74 18.8 15.9 23.9





#19

Methyl tert-butyl Ether

Concen: 2.691 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

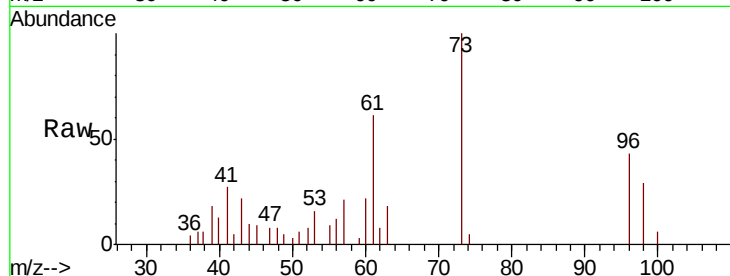
MDL-WATER-03-QT4-2018

Tot Ion: 73 Resp: 19648

Ion Ratio Lower Upper

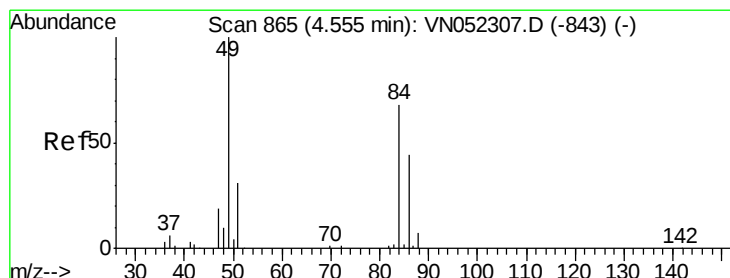
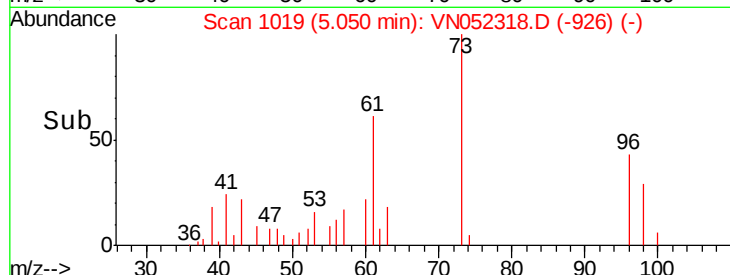
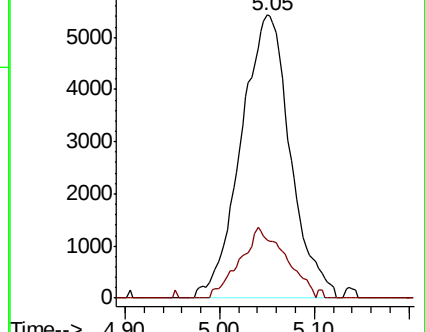
73 100

57 20.6 18.7 28.1



Abundance Ion 73.00 (72.70 to 73.70): VN052307.D (-986) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-986) (-)



#20

Methylene Chloride

Concen: 2.573 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Tgt Ion: 84 Resp: 9454

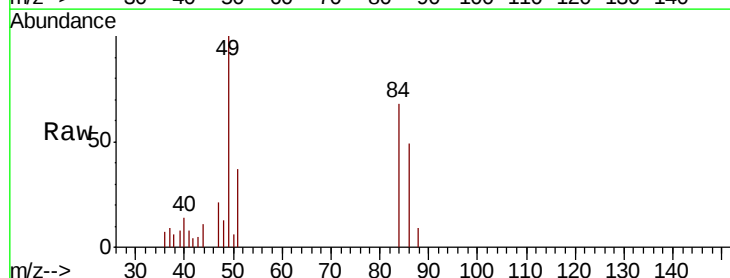
Ion Ratio Lower Upper

84 100

49 146.8 118.2 177.2

51 54.2 36.1 54.1#

86 71.4 51.6 77.4

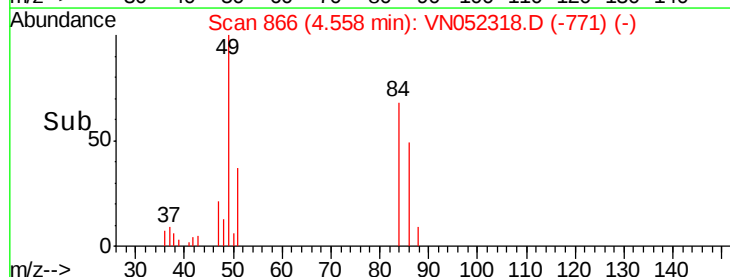
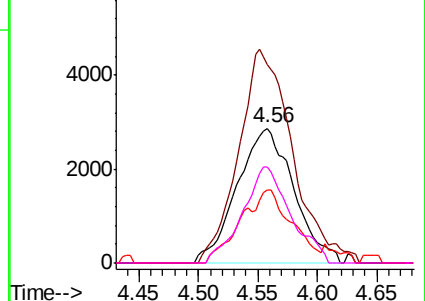


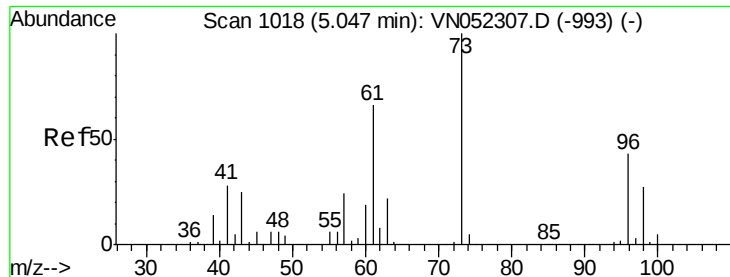
Abundance Ion 83.90 (83.60 to 84.60): VN052307.D (-843) (-)

Ion 48.90 (48.60 to 49.60): VN052307.D (-843) (-)

Ion 50.90 (50.60 to 51.60): VN052307.D (-843) (-)

Ion 85.90 (85.60 to 86.60): VN052307.D (-843) (-)





#21

trans-1,2-Dichloroethene

Concen: 2.793 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

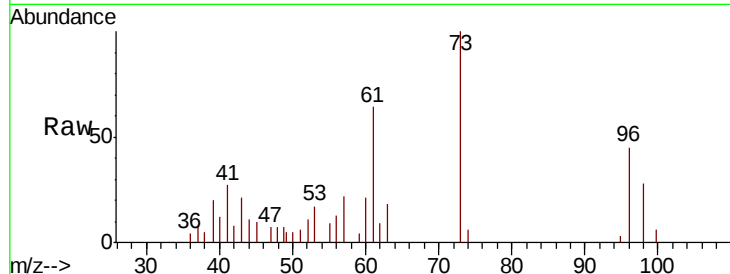
Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion: 96 Resp: 7641

Ion	Ratio	Lower	Upper
96	100		
61	144.3	123.6	185.4
98	63.0	50.7	76.1

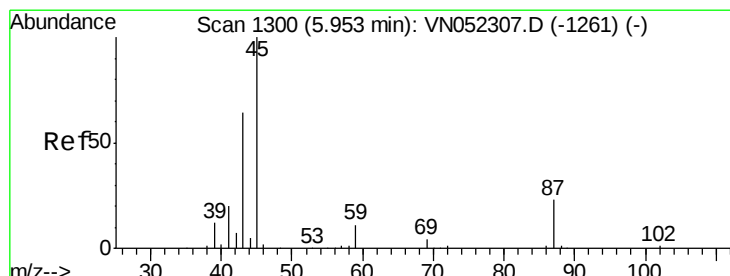
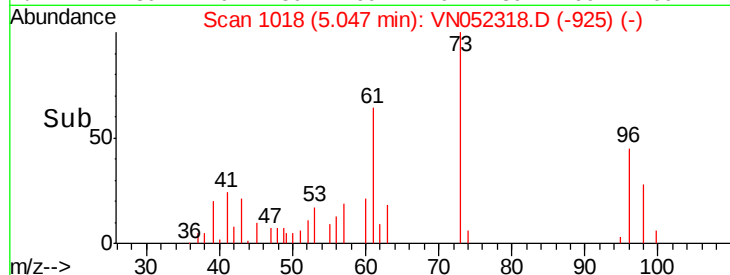
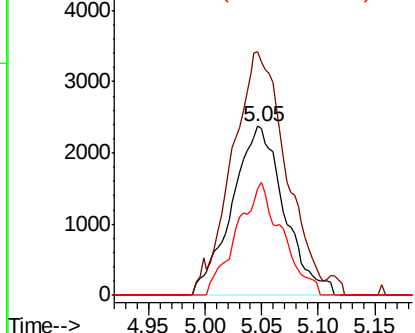


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 2.526 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Tgt Ion: 45 Resp: 26884

Ion	Ratio	Lower	Upper
45	100		
43	73.8	51.4	77.2
87	18.7	18.8	28.2#
59	12.7	8.6	12.8

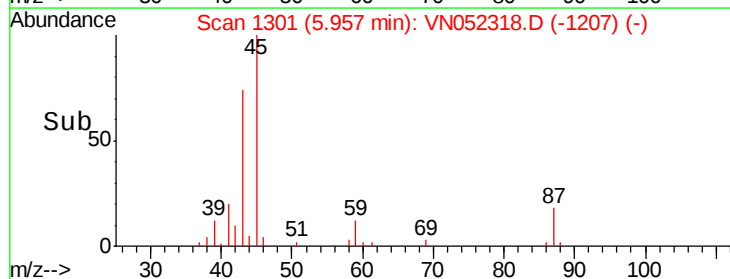
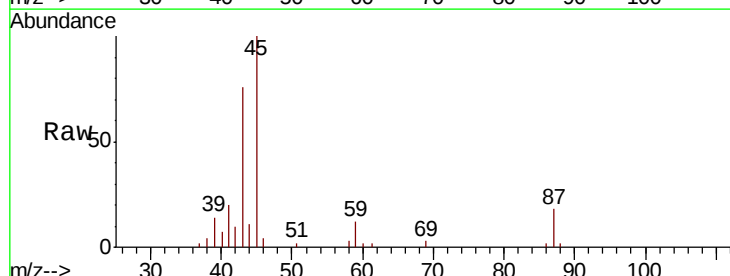
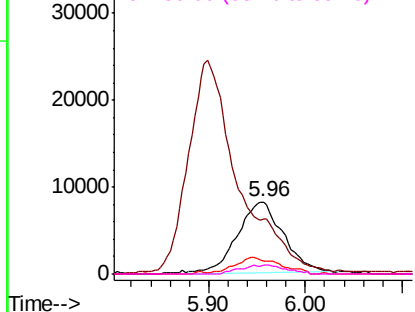
Abundance

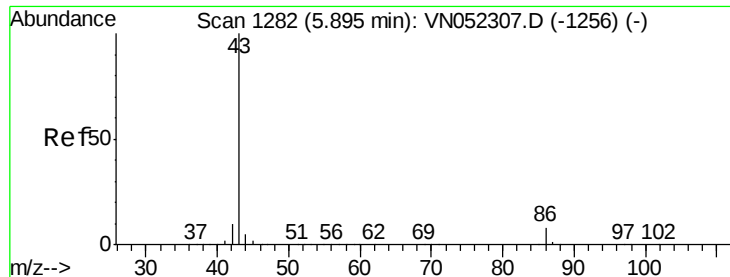
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC

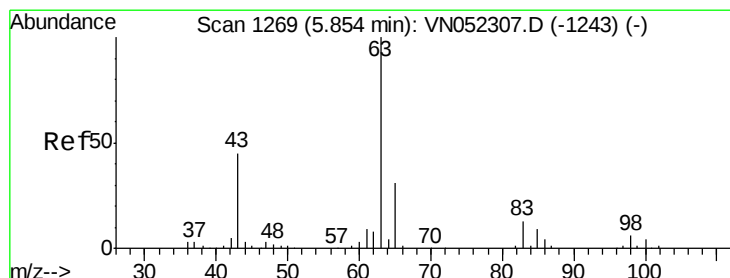
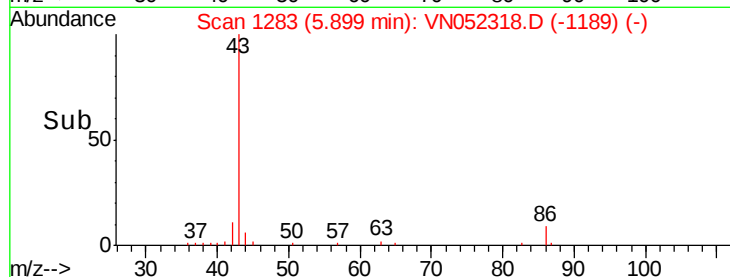
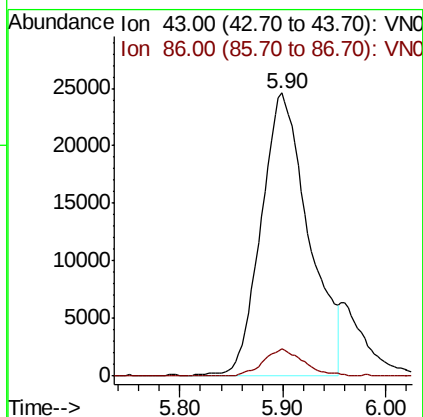
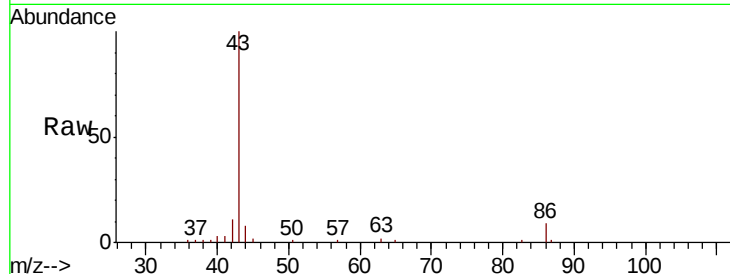




#23
 Vinyl Acetate
 Concen: 10.928 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

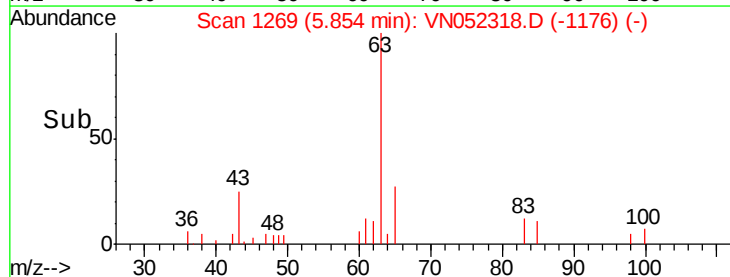
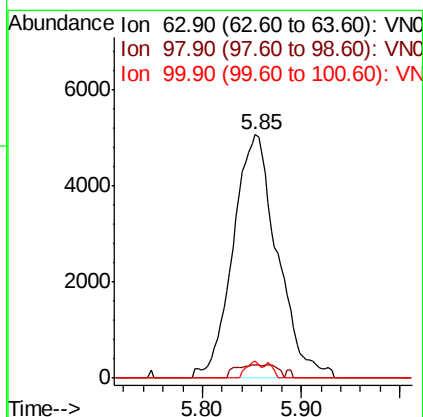
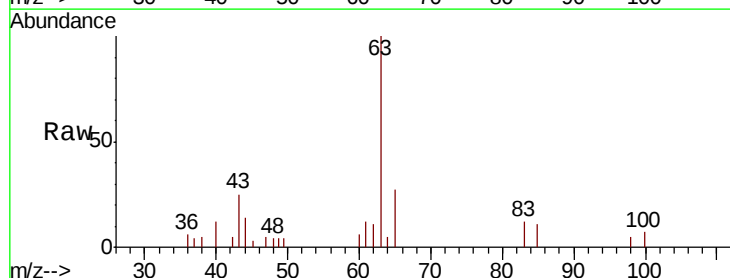
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

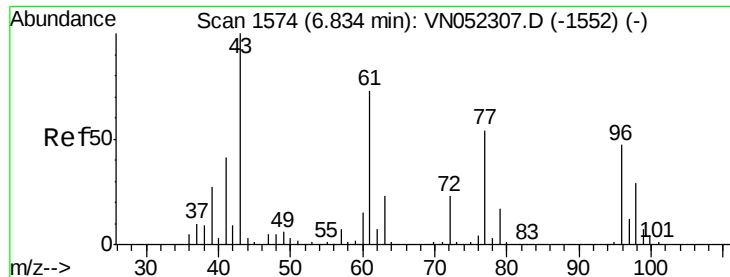
Tot Ion: 43 Resp: 78907
 Ion Ratio Lower Upper
 43 100
 86 9.4 6.5 9.7



#24
 1,1-Dichloroethane
 Concen: 2.763 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 63 Resp: 15768
 Ion Ratio Lower Upper
 63 100
 98 5.4 2.9 8.6
 100 7.2 1.9 5.7#

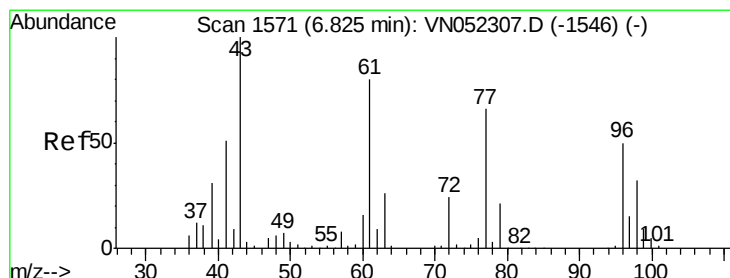
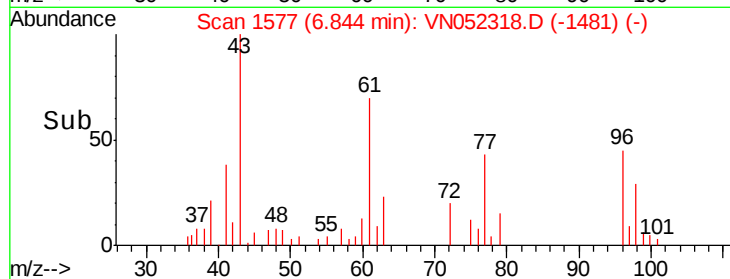
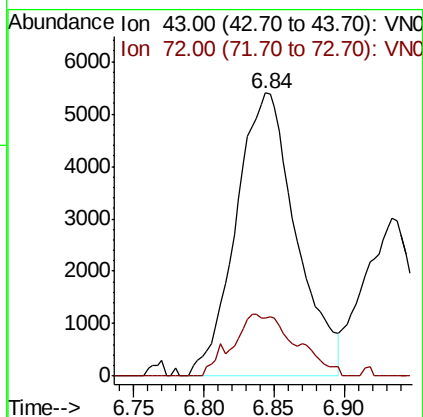
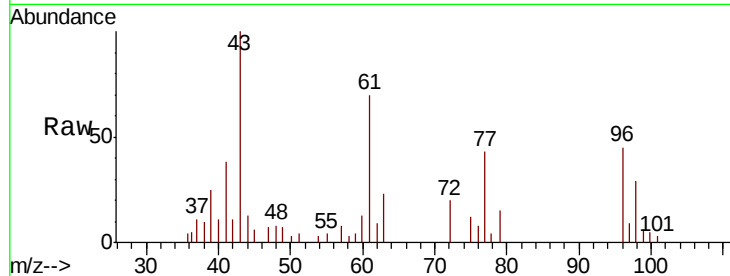




#25
2-Butanone
Concen: 11.918 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

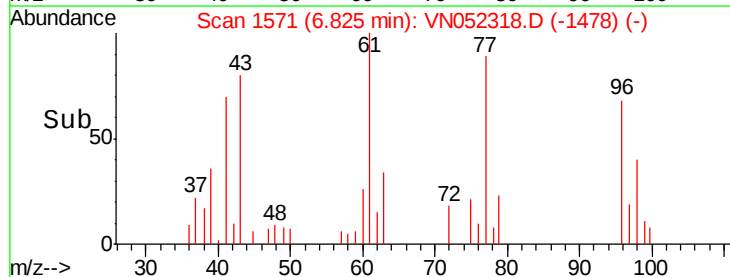
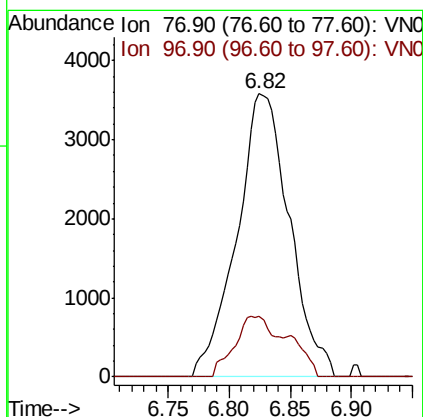
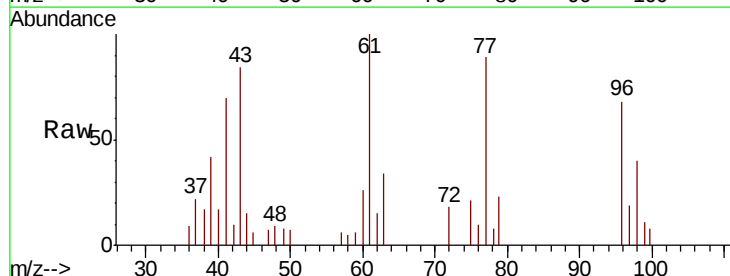
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

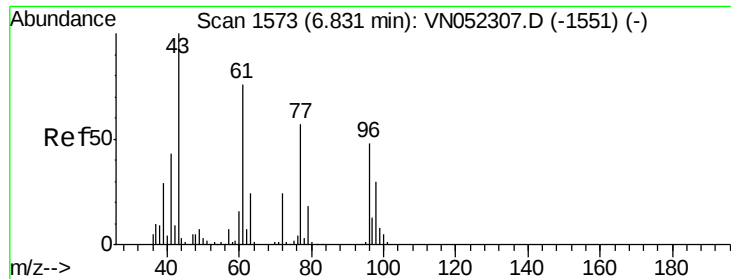
Tot Ion: 43 Resp: 16101
Ion Ratio Lower Upper
43 100
72 20.3 18.6 27.8



#26
2,2-Dichloropropane
Concen: 2.546 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 77 Resp: 10686
Ion Ratio Lower Upper
77 100
97 16.6 11.1 33.1

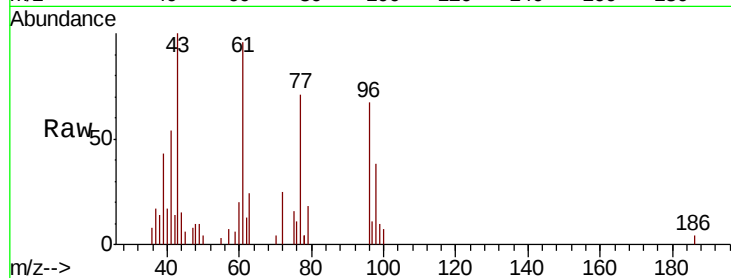




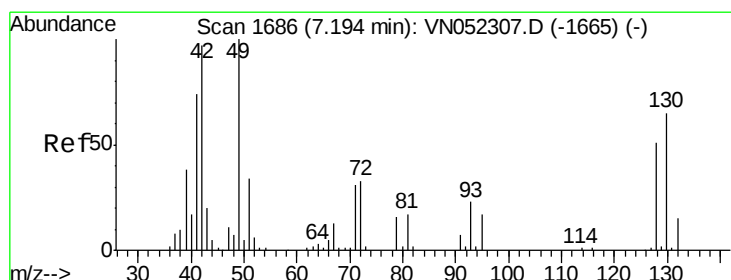
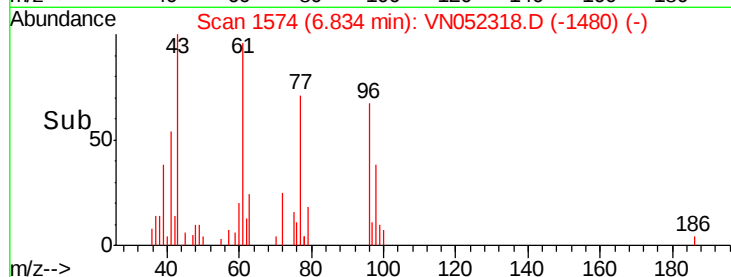
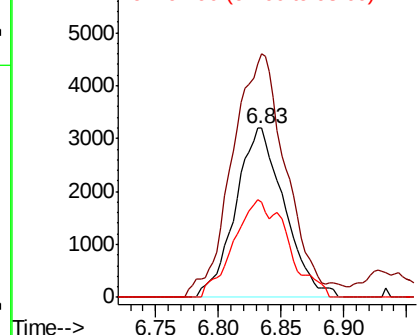
#27
 cis-1,2-Dichloroethene
 Concen: 2.717 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tot Ion: 96 Resp: 8651
 Ion Ratio Lower Upper
 96 100
 61 157.4 0.0 316.8
 98 40.8 0.0 126.6

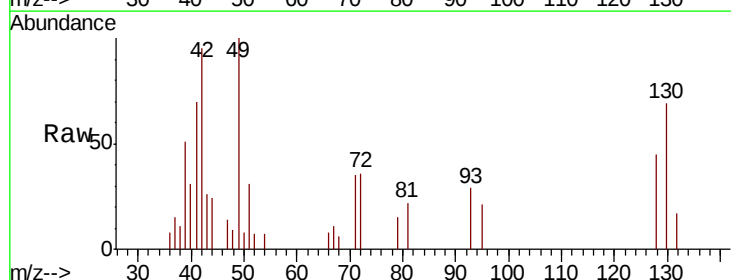


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

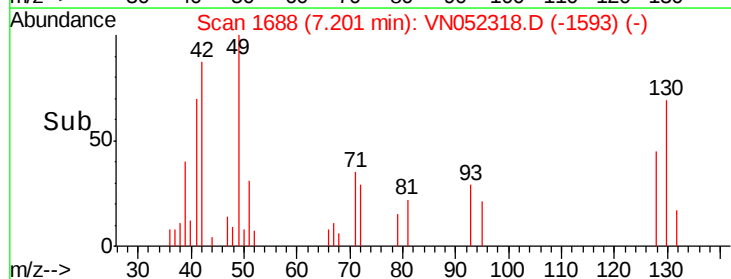
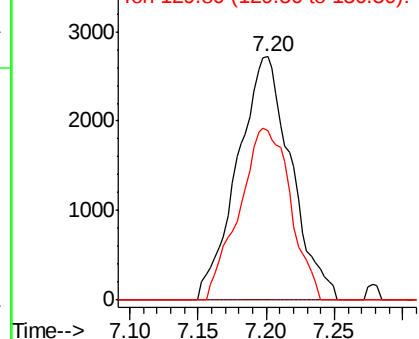


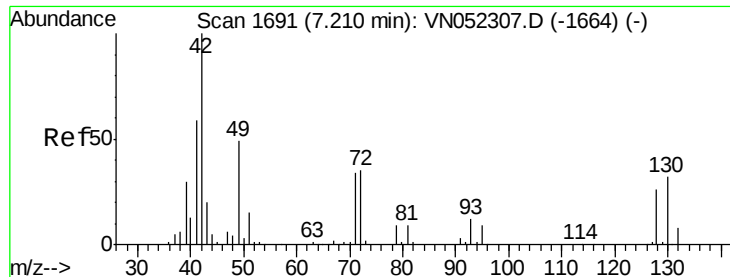
#28
 Bromochloromethane
 Concen: 2.531 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. 0.01 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 49 Resp: 7428
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.0
 130 67.2 50.4 75.6



Abundance Ion 48.90 (48.60 to 49.60): VN0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

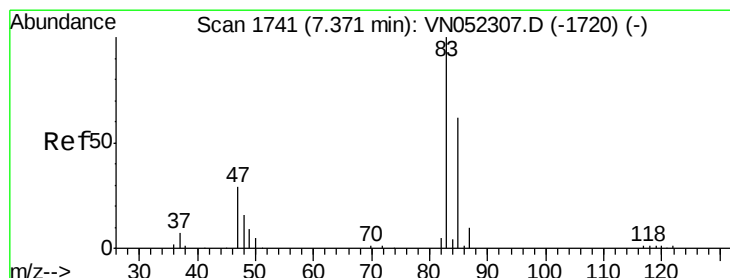
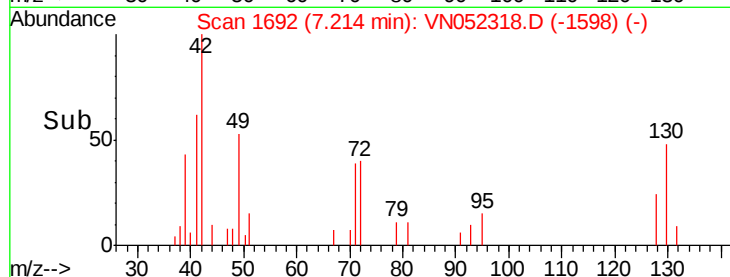
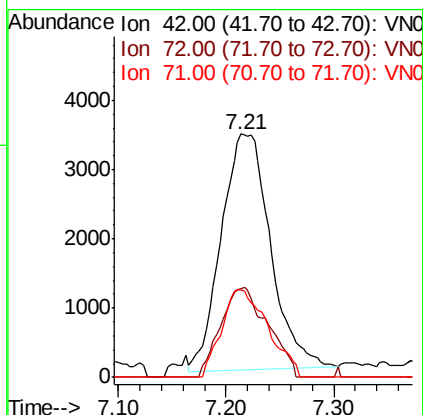
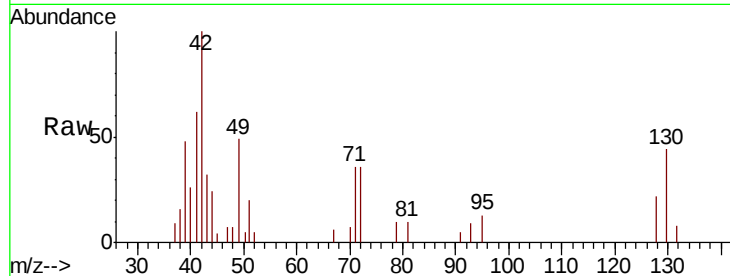




#29
Tetrahydrofuran
Concen: 12.193 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

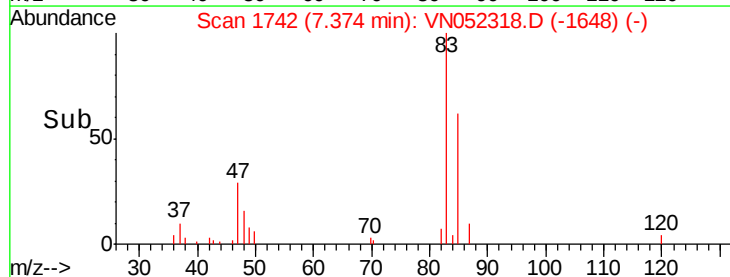
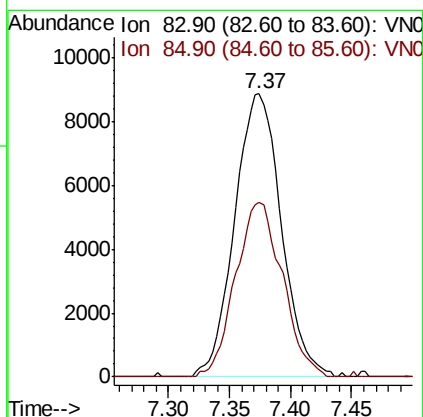
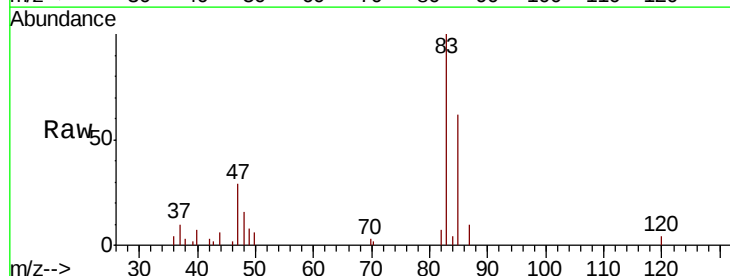
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

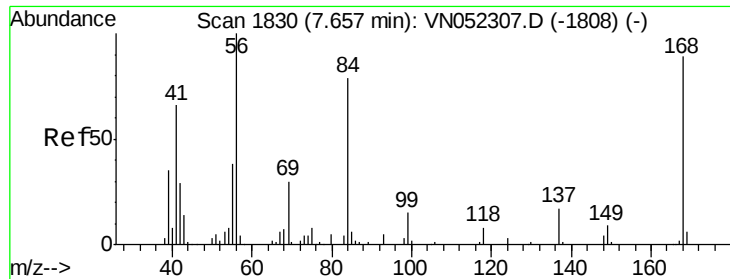
Tot Ion: 42 Resp: 10821
Ion Ratio Lower Upper
42 100
72 36.5 28.6 42.8
71 35.0 26.7 40.1



#30
Chloroform
Concen: 4.325 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 83 Resp: 23524
Ion Ratio Lower Upper
83 100
85 61.9 49.4 74.2

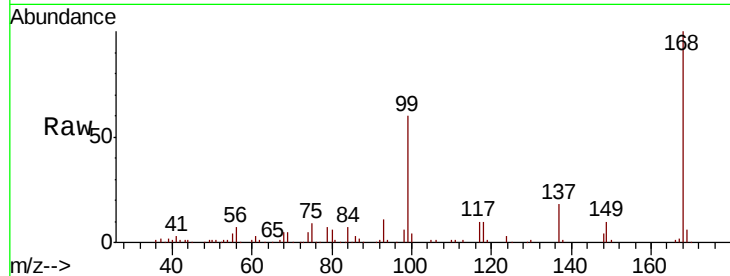




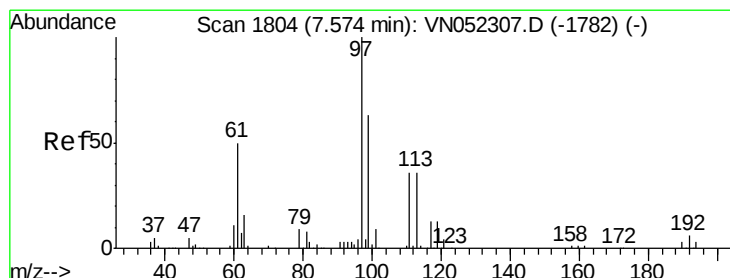
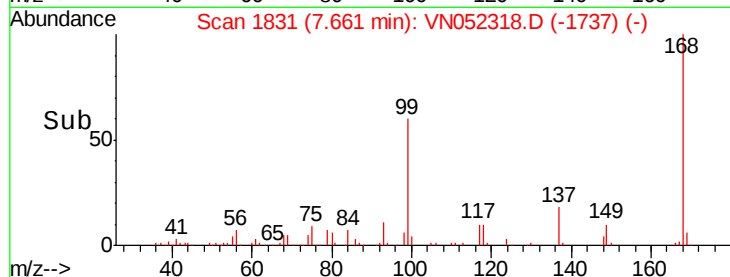
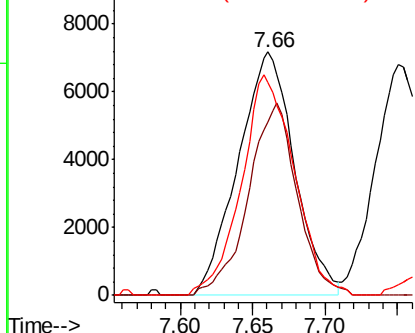
#31
Cyclohexane
Concen: 2.650 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion: 56 Resp: 19365
Ion Ratio Lower Upper
56 100
69 70.9 23.8 35.8#
84 87.4 63.0 94.6

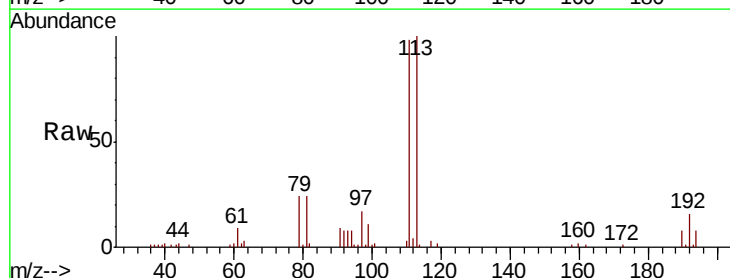


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

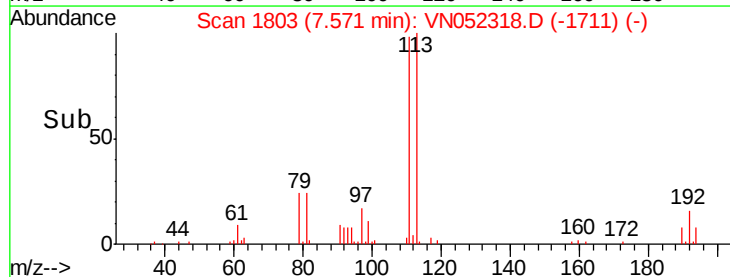
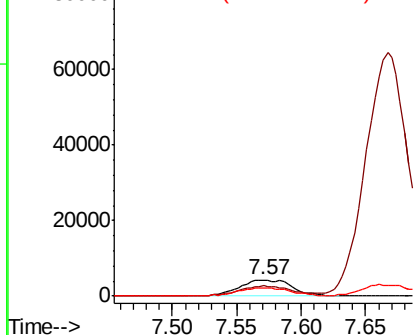


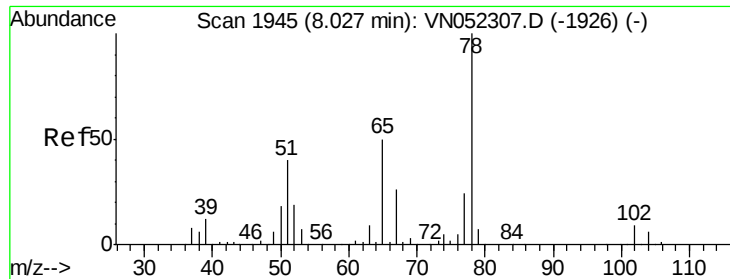
#32
1,1,1-Trichloroethane
Concen: 2.642 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 97 Resp: 12240
Ion Ratio Lower Upper
97 100
99 63.3 50.2 75.2
61 52.0 40.2 60.4



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0

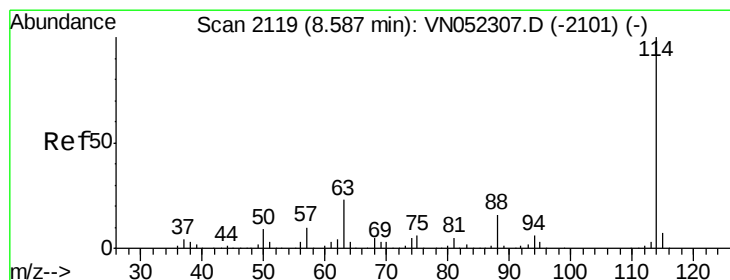
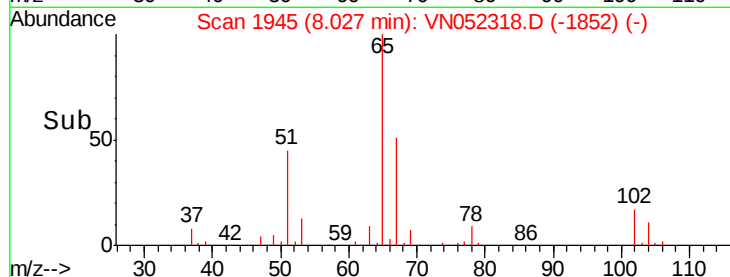
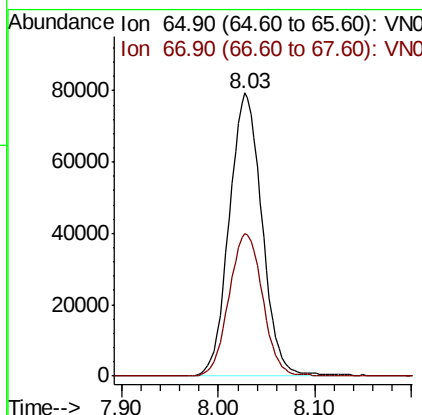
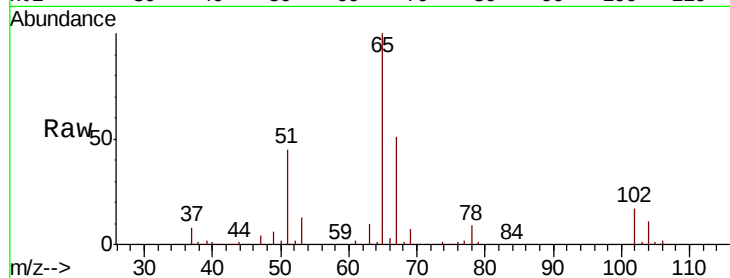




#33
 1,2-Dichloroethane-d4
 Concen: 2.642 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

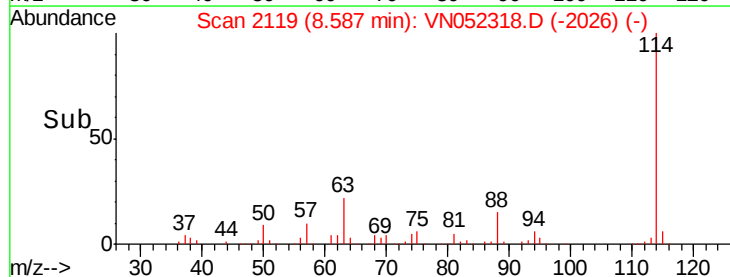
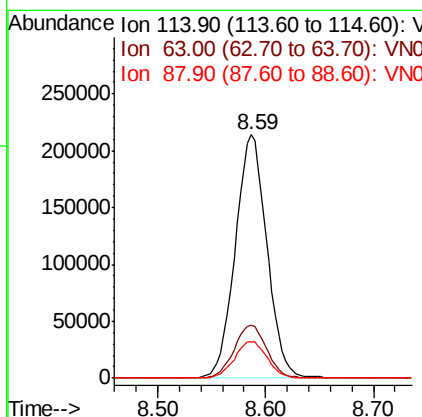
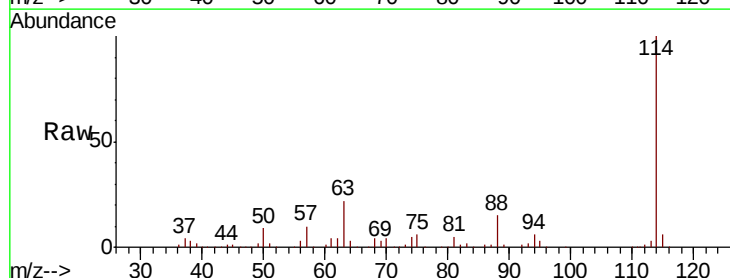
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

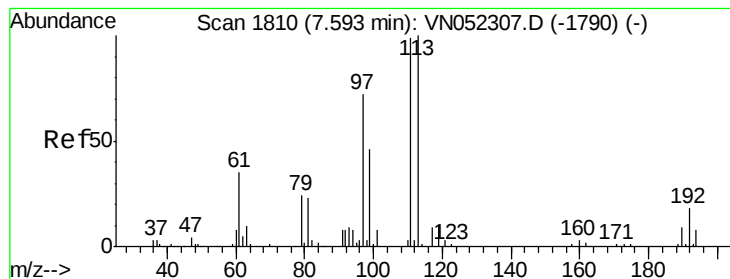
Tot Ion: 65 Resp: 186573
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 114 Resp: 435975
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 45.4
 88 15.0 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

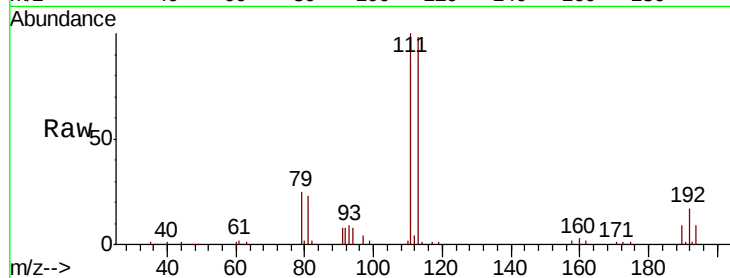
Tot Ion:113 Resp: 142953

Ion Ratio Lower Upper

113 100

111 102.4 81.0 121.6

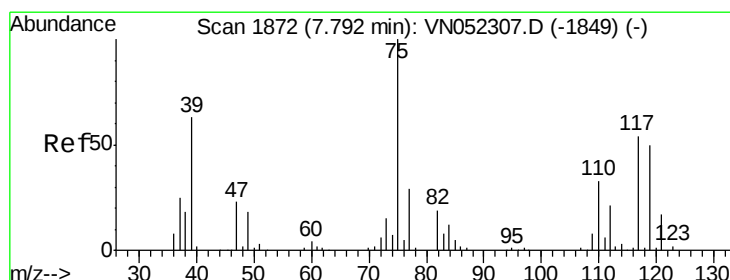
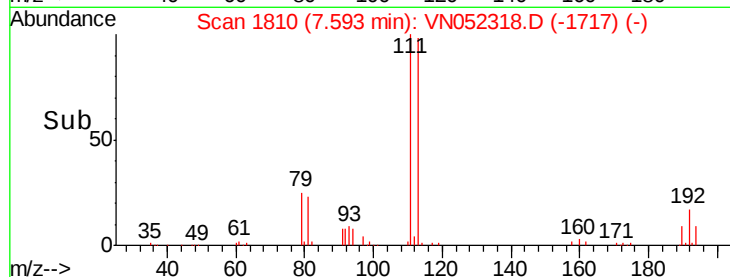
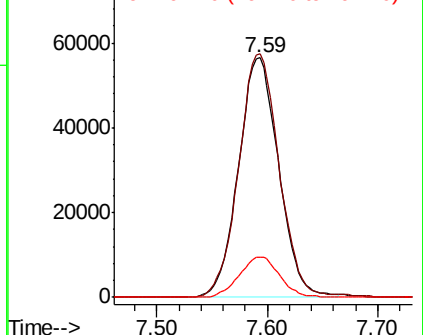
192 16.9 13.8 20.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 2.608 ug/l

RT: 7.79 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

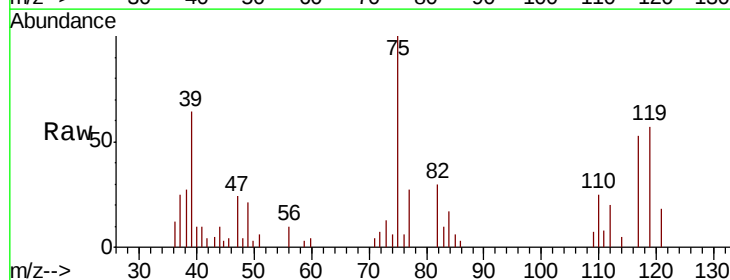
Tgt Ion: 75 Resp: 11396

Ion Ratio Lower Upper

75 100

110 30.0 16.5 49.5

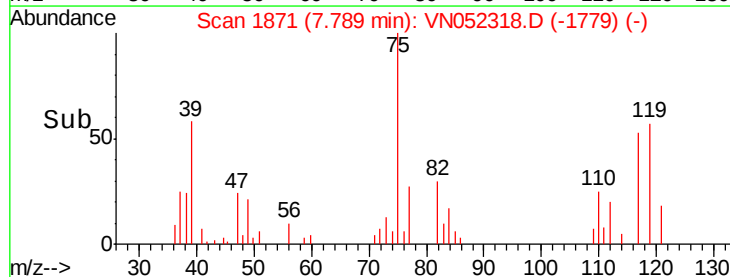
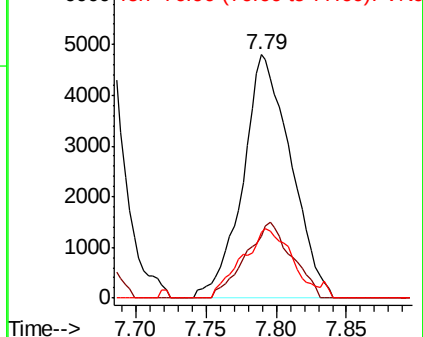
77 30.6 24.2 36.2

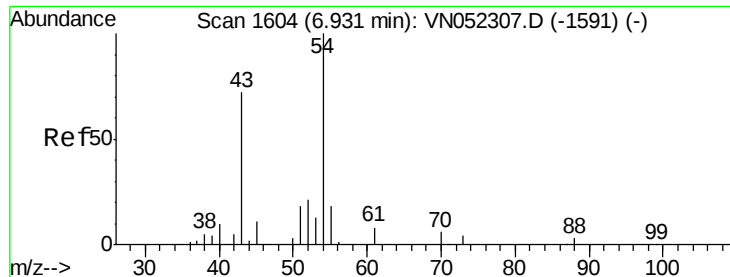


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

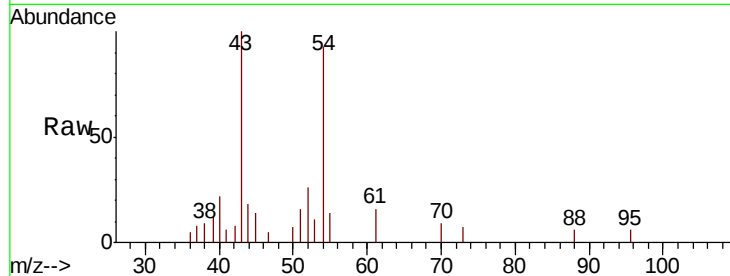




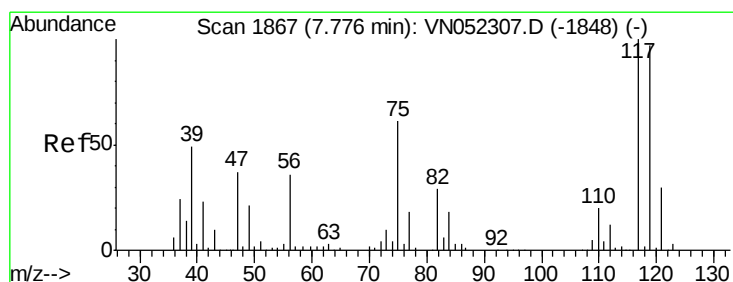
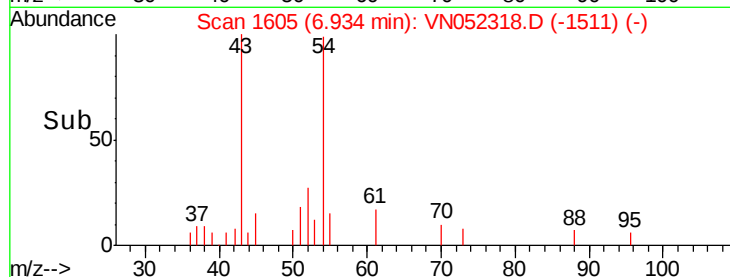
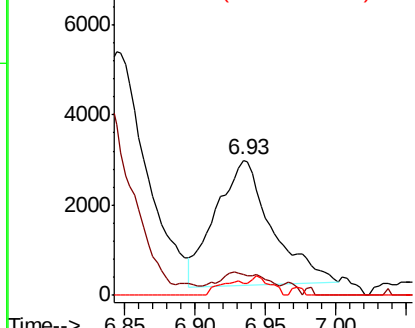
#37
Ethyl Acetate
Concen: 2.440 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 7738
Ion Ratio Lower Upper
43 100
61 7.6 10.3 15.5#
70 5.8 5.6 8.4

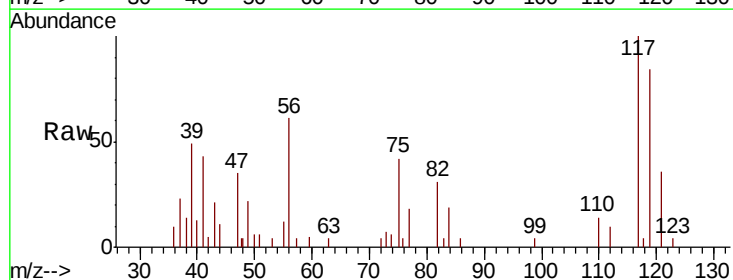


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

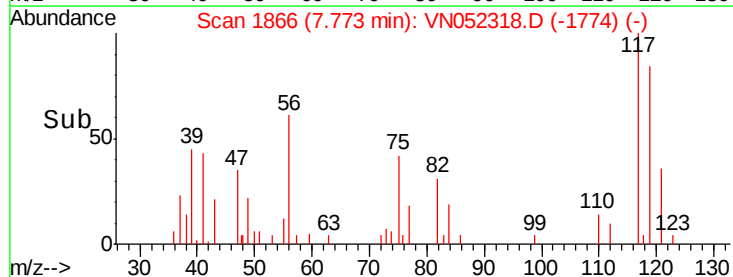
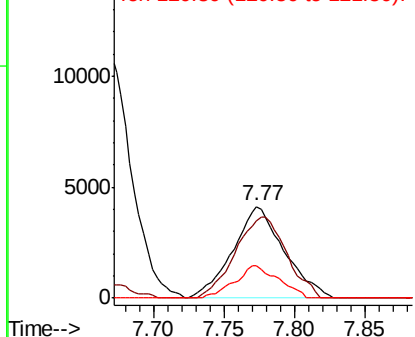


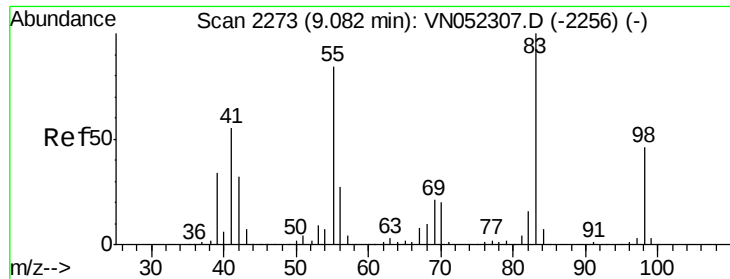
#38
Carbon Tetrachloride
Concen: 2.609 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 117 Resp: 10476
Ion Ratio Lower Upper
117 100
119 84.4 77.4 116.0
121 35.6 24.0 36.0



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

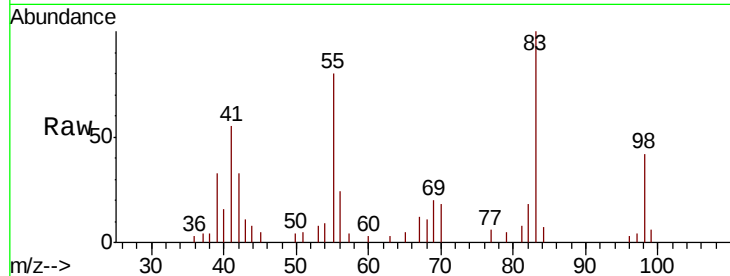




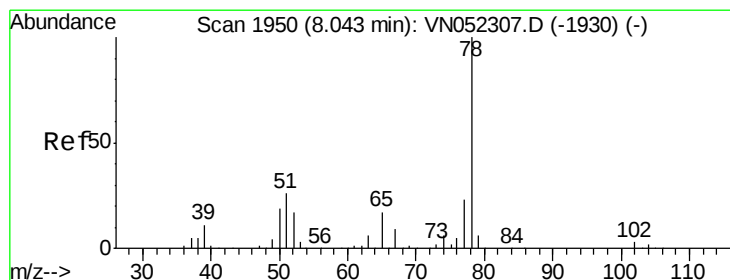
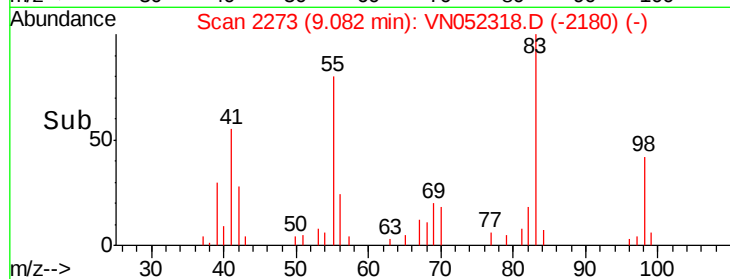
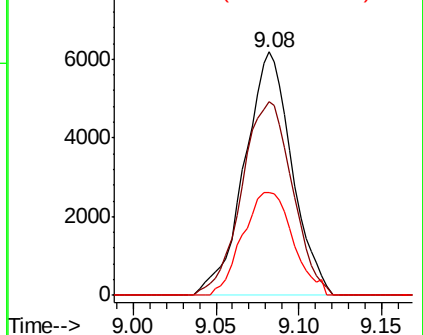
#39
Methvlcvclohexane
Concen: 2.467 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion: 83 Resp: 12305
Ion Ratio Lower Upper
83 100
55 79.8 66.8 100.2
98 42.3 36.4 54.6

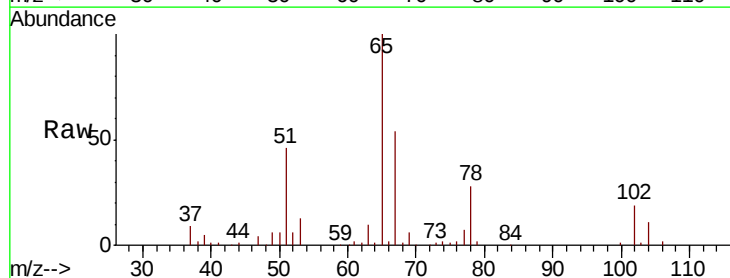


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

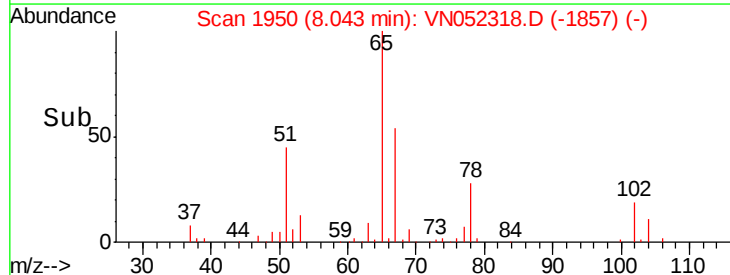
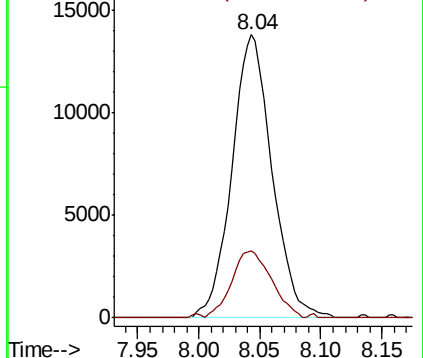


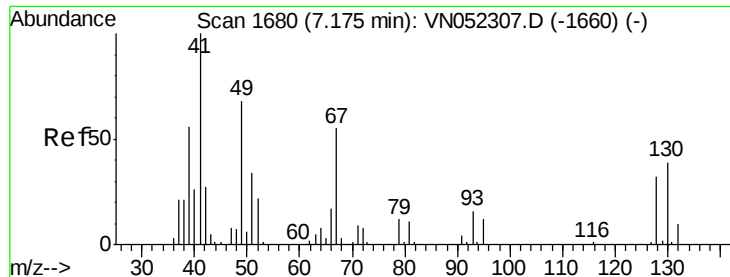
#40
Benzene
Concen: 2.522 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 78 Resp: 31488
Ion Ratio Lower Upper
78 100
77 23.7 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

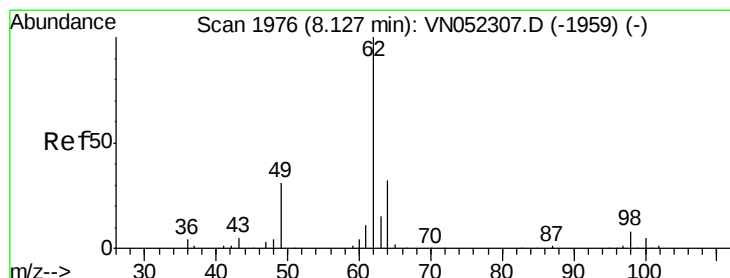
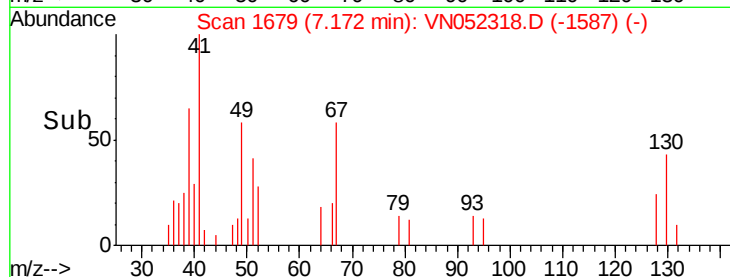
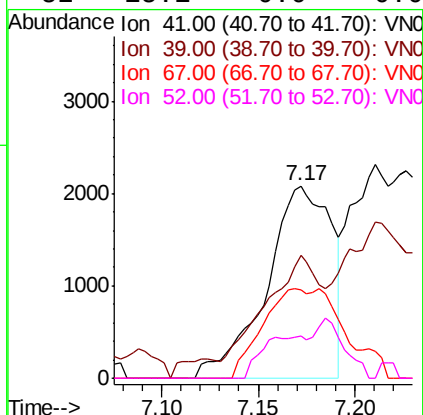
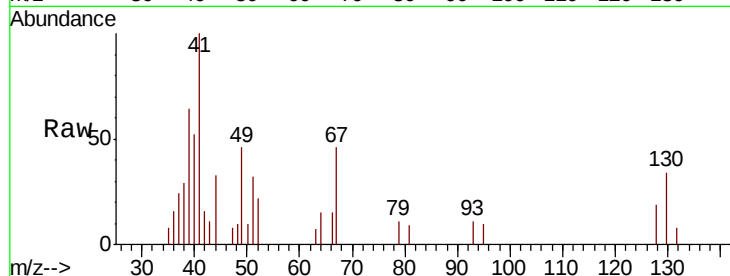




#41
Methacrylonitrile
Concen: 6.254 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

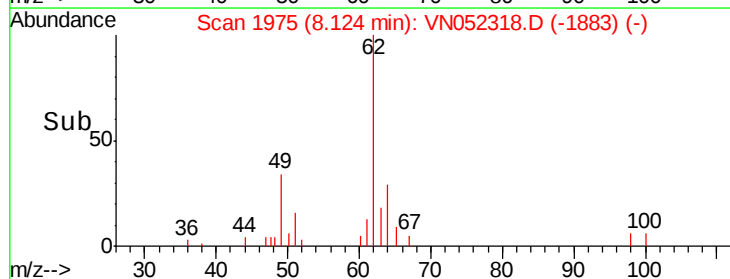
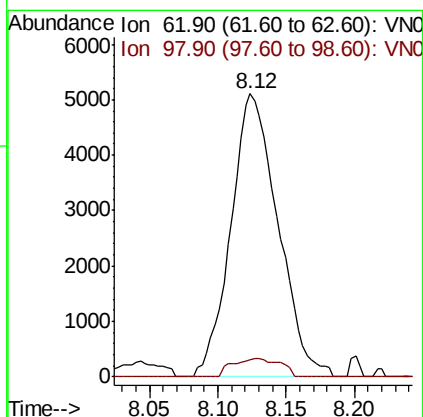
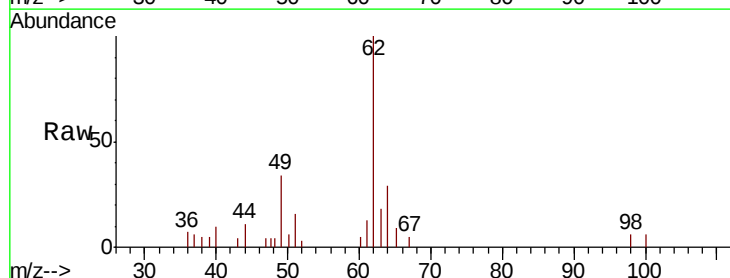
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

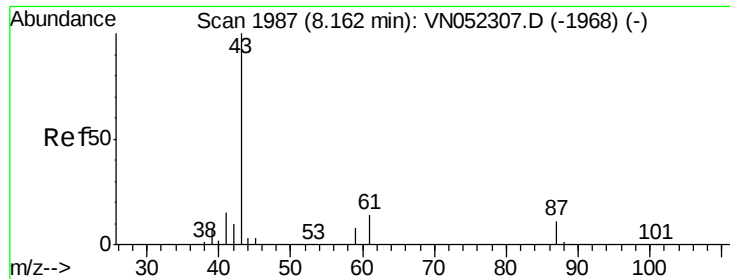
Tot Ion: 41 Resp: 4866
Ion Ratio Lower Upper
41 100
39 52.4 0.0 0.0#
67 32.1 0.0 0.0#
52 15.1 0.0 0.0#



#42
1,2-Dichloroethane
Concen: 2.750 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 62 Resp: 12243
Ion Ratio Lower Upper
62 100
98 5.2 0.0 15.6





#43

Isopropyl Acetate

Concen: 2.487 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

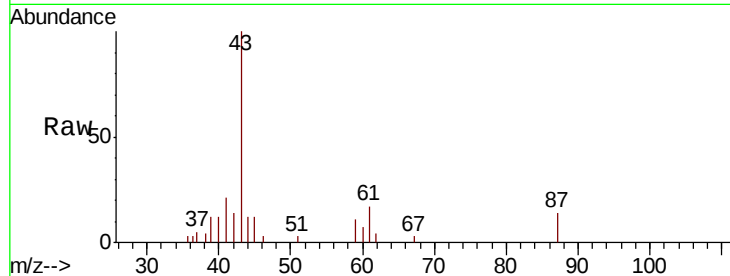
Tot Ion: 43 Resp: 15219

Ion Ratio Lower Upper

43 100

61 18.5 12.0 18.0#

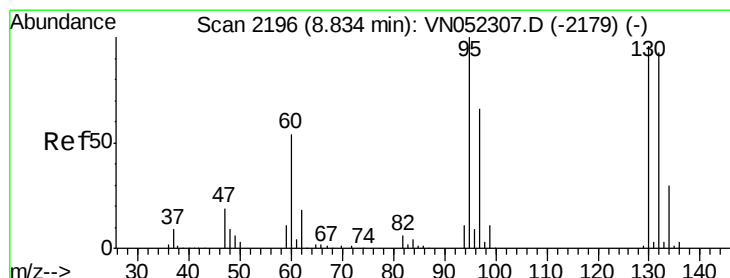
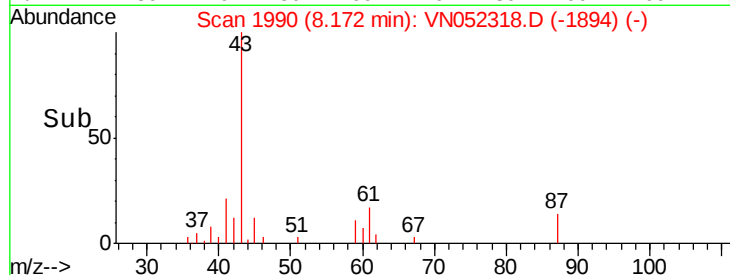
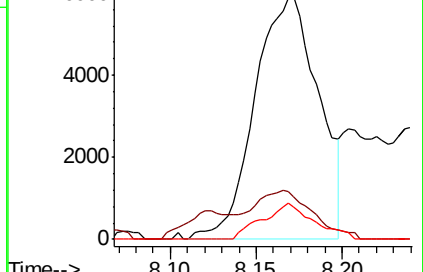
87 11.9 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VN052318.D (-1990) (-)

Ion 61.00 (60.70 to 61.70): VN052318.D (-1990) (-)

Ion 87.00 (86.70 to 87.70): VN052318.D (-1990) (-)



#44

Trichloroethene

Concen: 2.624 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN052318.D

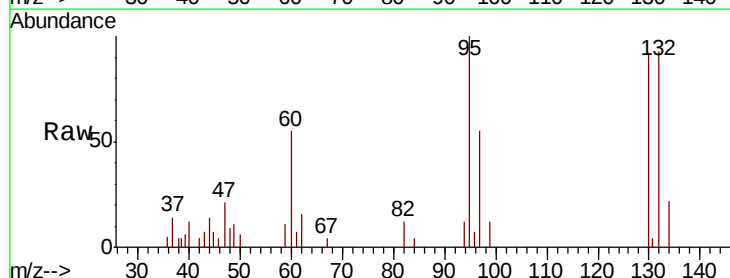
Acq: 14 Nov 2018 17:35

Tgt Ion:130 Resp: 8068

Ion Ratio Lower Upper

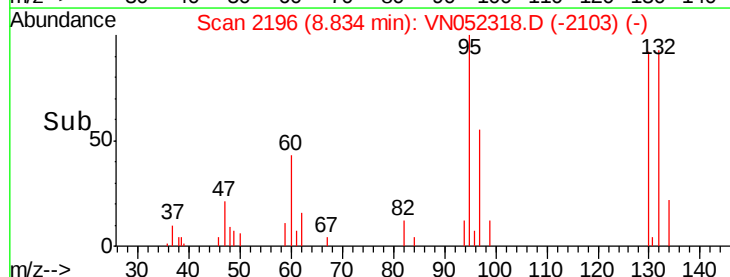
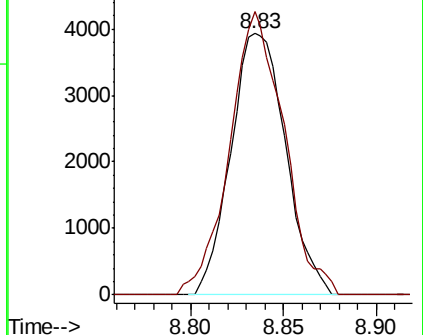
130 100

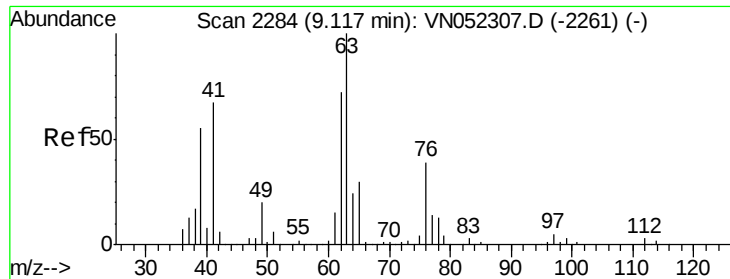
95 108.3 0.0 208.4



Abundance Ion 129.80 (129.50 to 130.50): VN052318.D (-2196) (-)

Ion 94.90 (94.60 to 95.60): VN052318.D (-2196) (-)

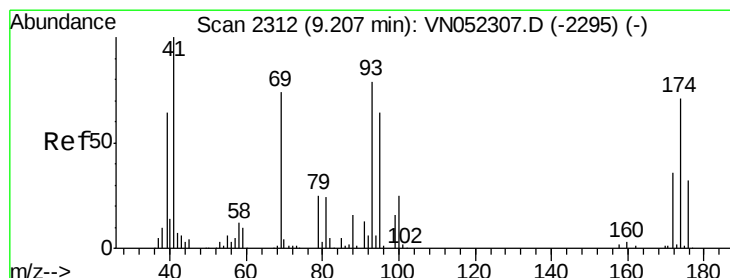
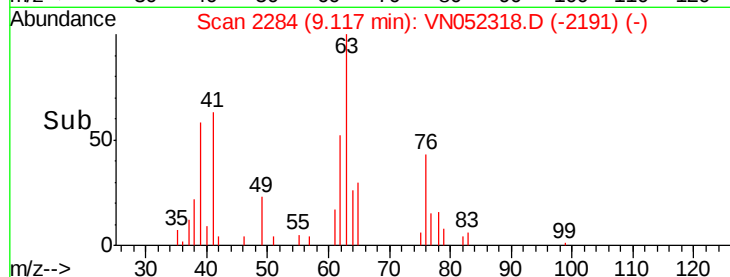
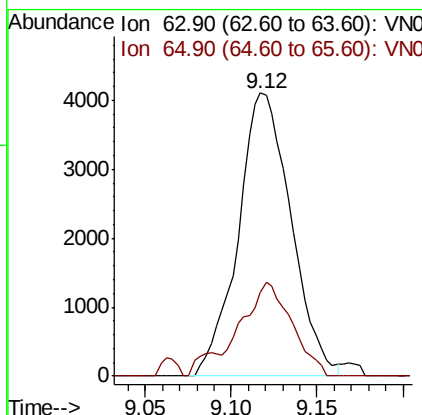
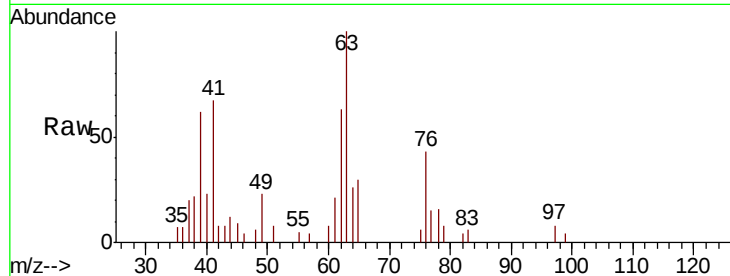




#45
 1,2-Dichloropropane
 Concen: 2.476 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

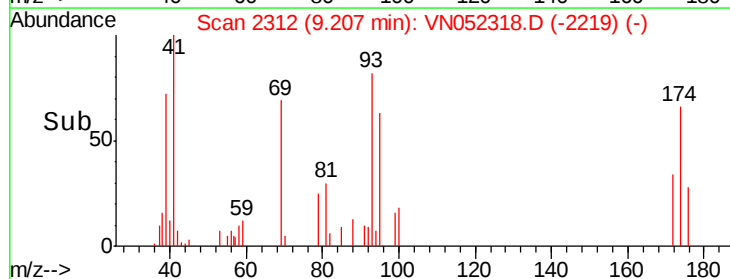
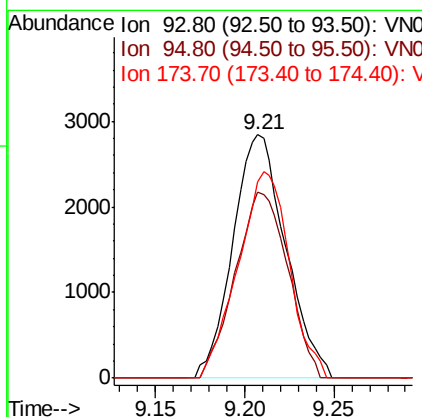
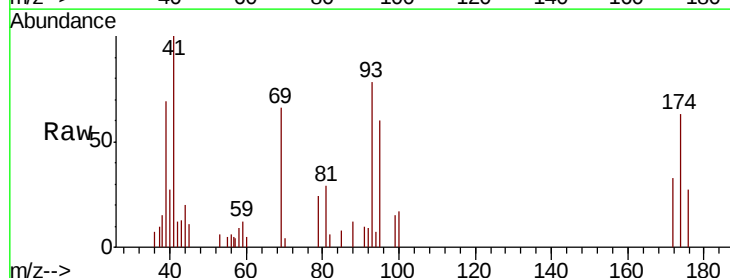
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

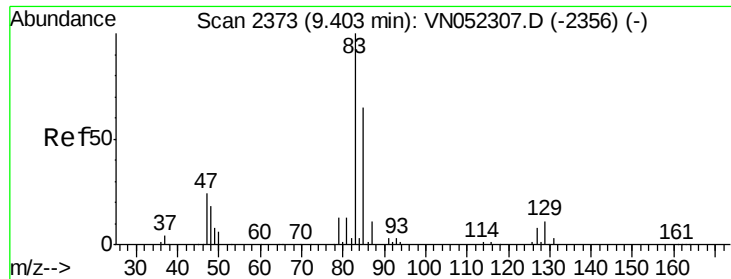
Tot Ion: 63 Resp: 8773
 Ion Ratio Lower Upper
 63 100
 65 29.8 24.2 36.4



#46
 Dibromomethane
 Concen: 2.868 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 93 Resp: 5882
 Ion Ratio Lower Upper
 93 100
 95 75.8 64.2 96.2
 174 82.1 70.9 106.3





#47

Bromodichloromethane

Concen: 2.586 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

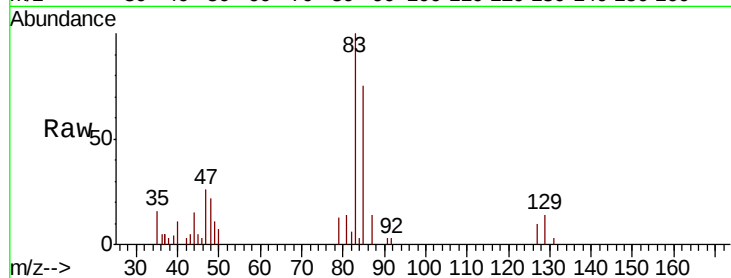
Tot Ion: 83 Resp: 10884

Ion Ratio Lower Upper

83 100

85 74.9 52.2 78.4

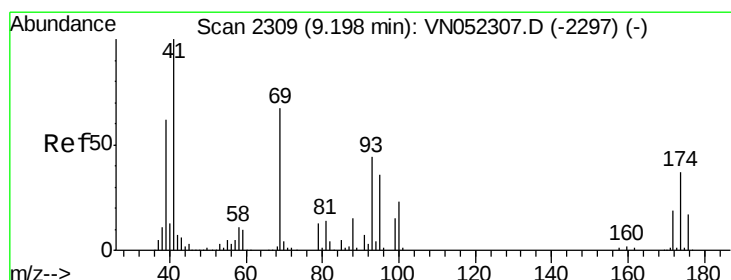
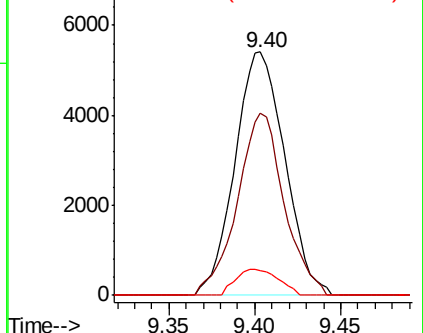
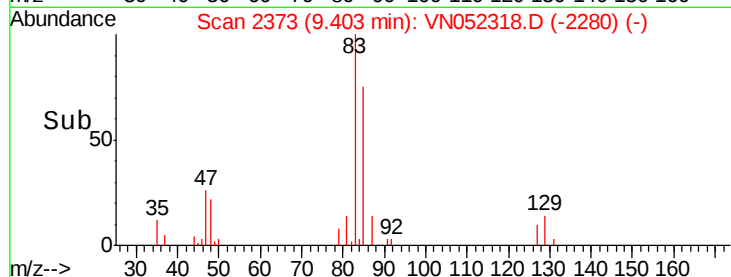
127 10.2 6.7 10.1#



Abundance Ion 82.90 (82.60 to 83.60): VN052318.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN052318.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN052318.D (-2280) (-)



#48

Methyl methacrylate

Concen: 2.331 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

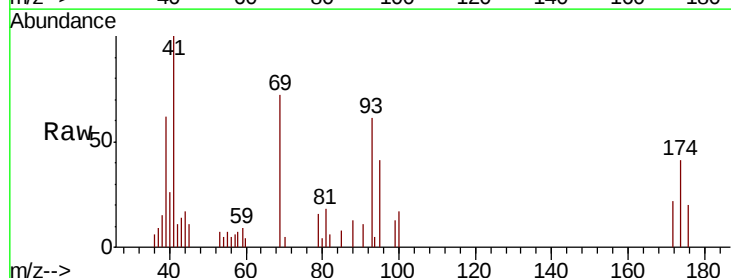
Tgt Ion: 41 Resp: 7237

Ion Ratio Lower Upper

41 100

69 73.4 57.1 85.7

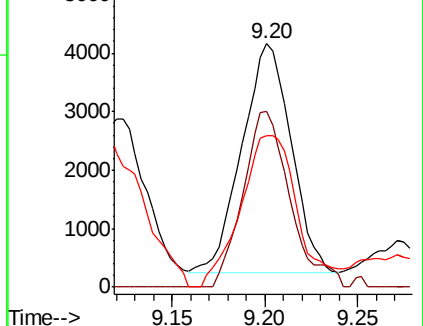
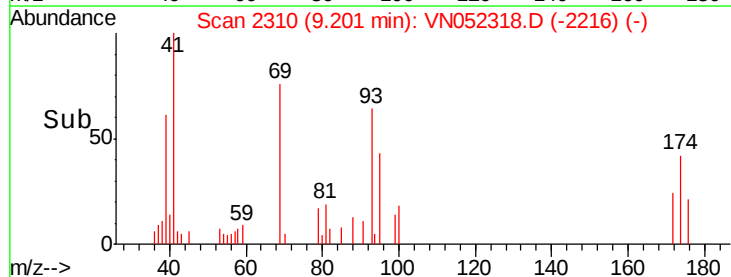
39 76.9 52.5 78.7

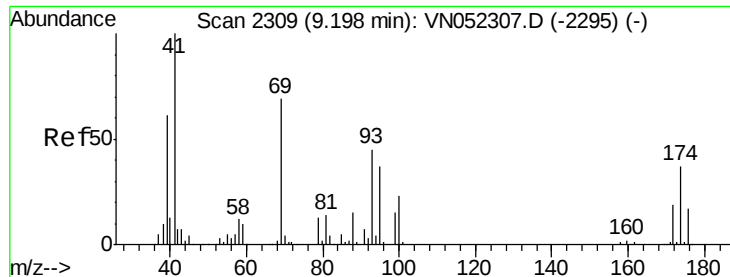


Abundance Ion 41.00 (40.70 to 41.70): VN052318.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN052318.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN052318.D (-2216) (-)





#49

1,4-Dioxane

Concen: 45.517 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

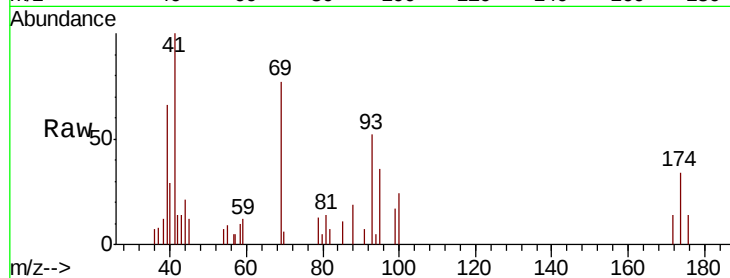
Tot Ion: 88 Resp: 1085

Ion Ratio Lower Upper

88 100

43 0.0 33.3 49.9#

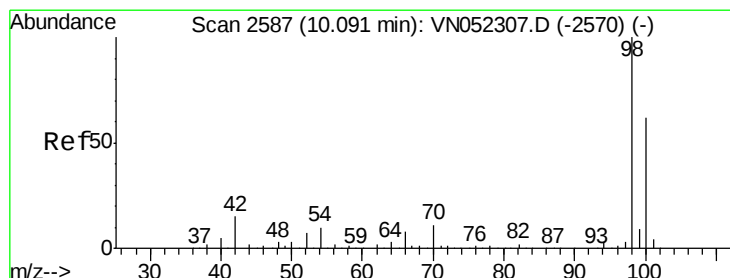
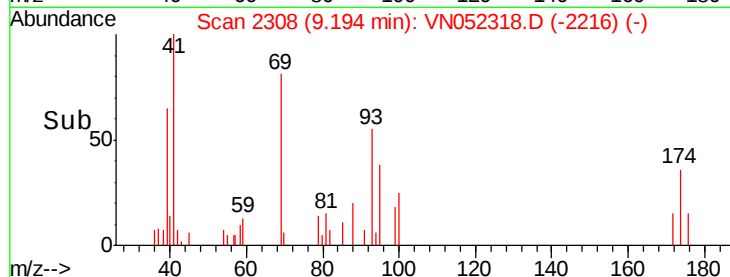
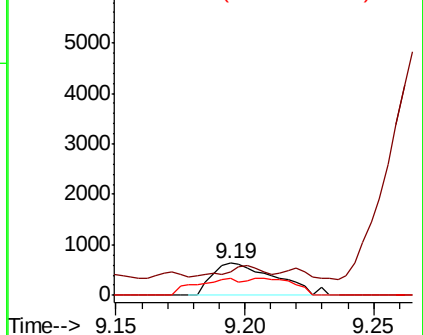
58 35.8 59.2 88.8#



Abundance Ion 88.00 (87.70 to 88.70): VN052307.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN052307.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-2295) (-)



#50

Toluene-d8

Concen: 45.517 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052318.D

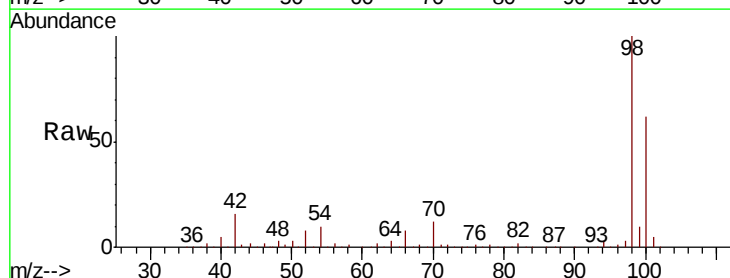
Acq: 14 Nov 2018 17:35

Tgt Ion: 98 Resp: 541094

Ion Ratio Lower Upper

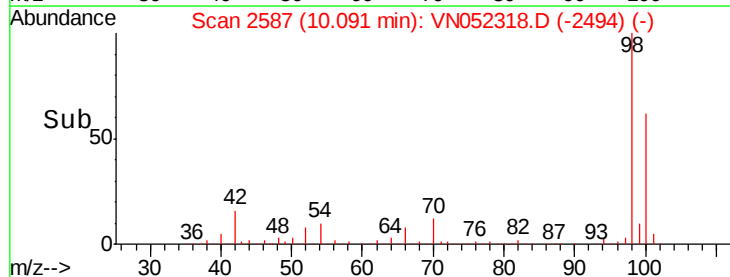
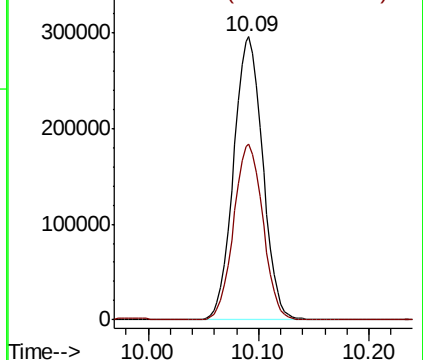
98 100

100 62.3 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 12.197 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

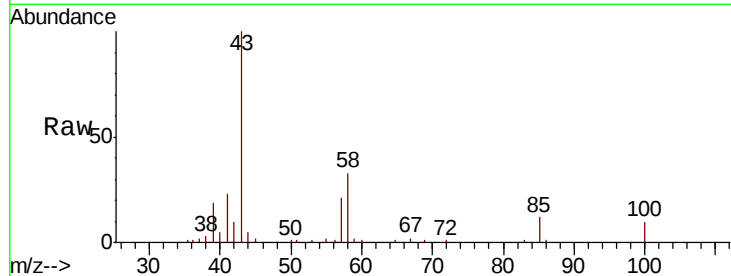
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 37573

Ion Ratio Lower Upper

43 100

58 32.7 27.0 40.6



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-2535) (-)

9.99

20000

15000

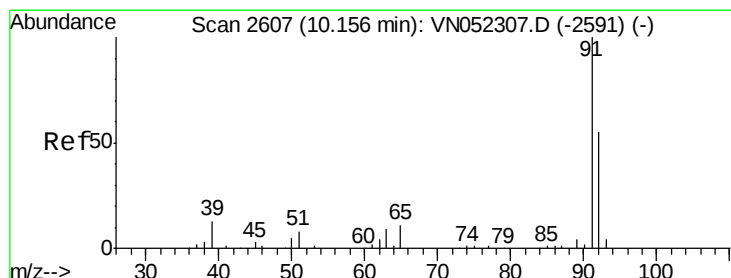
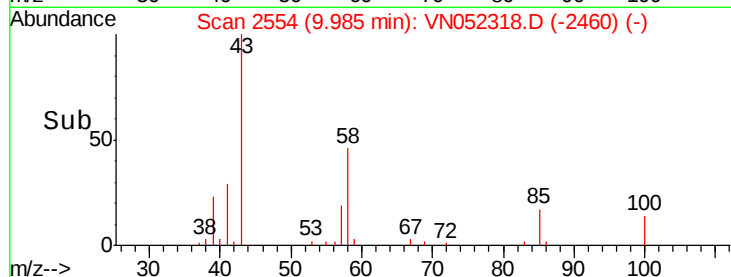
10000

5000

0

9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 2.576 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052318.D

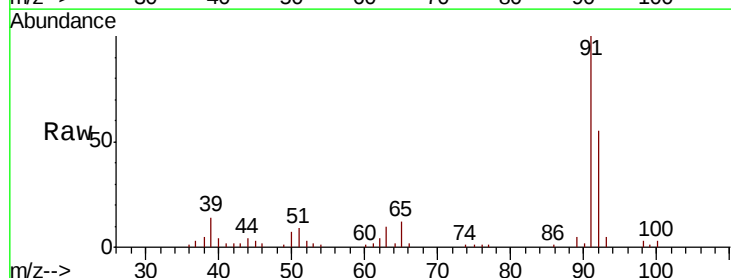
Acq: 14 Nov 2018 17:35

Tgt Ion: 92 Resp: 19234

Ion Ratio Lower Upper

92 100

91 182.7 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN052307.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052307.D (-2591) (-)

10.16

20000

15000

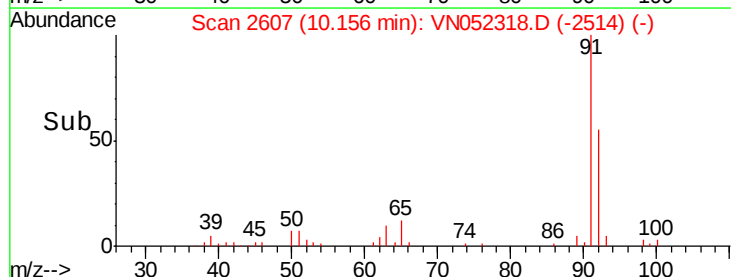
10000

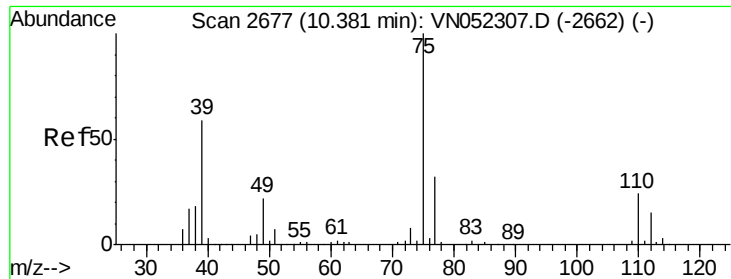
5000

0

10.10 10.15 10.20

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.181 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

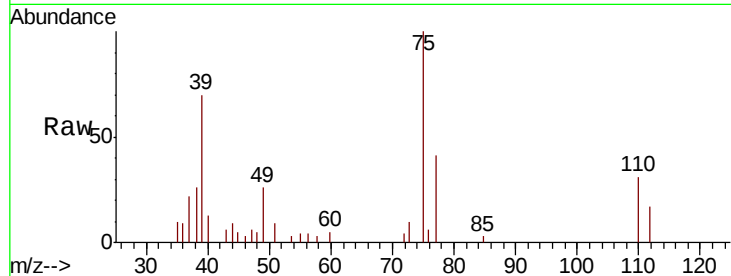
MDL-WATER-03-QT4-2018

Tot Ion: 75 Resp: 9259

Ion Ratio Lower Upper

75 100

77 40.5 25.7 38.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

6000

5000

4000

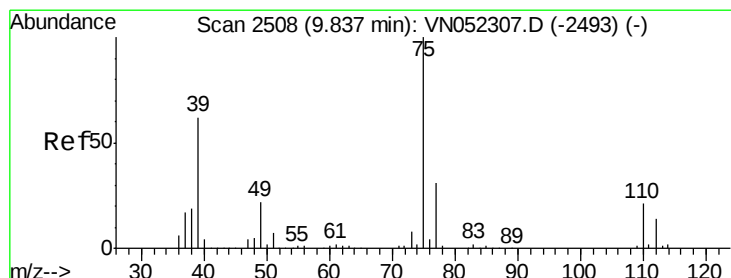
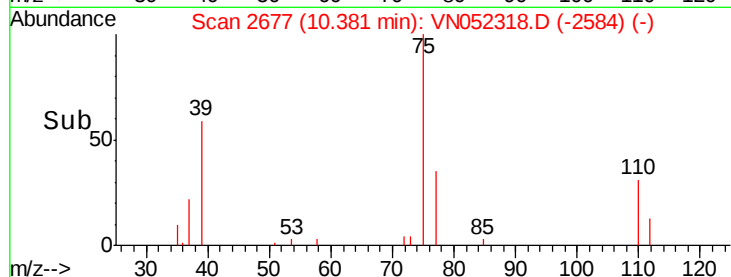
3000

2000

1000

0

Time--> 10.30 10.35 10.40



#54

cis-1,3-Dichloropropene

Concen: 2.130 ug/l

RT: 9.84 min Scan# 2510

Delta R.T. 0.01 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

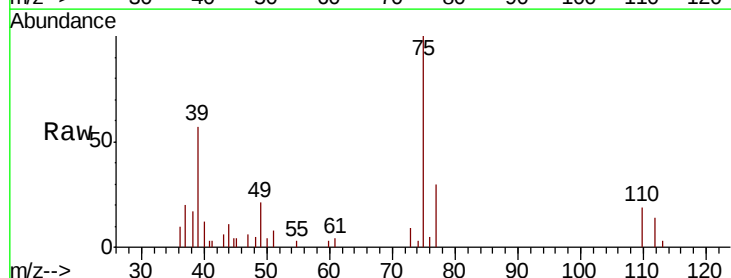
Tgt Ion: 75 Resp: 10307

Ion Ratio Lower Upper

75 100

77 29.7 24.6 36.8

39 53.8 49.9 74.9



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

8000

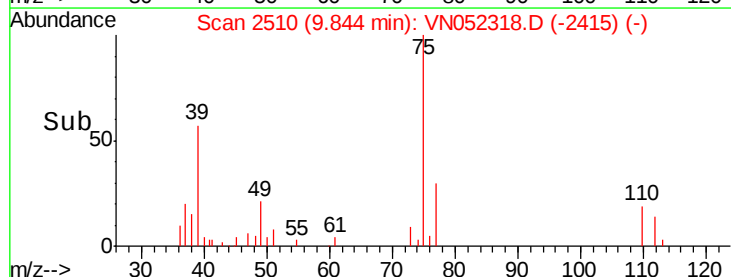
6000

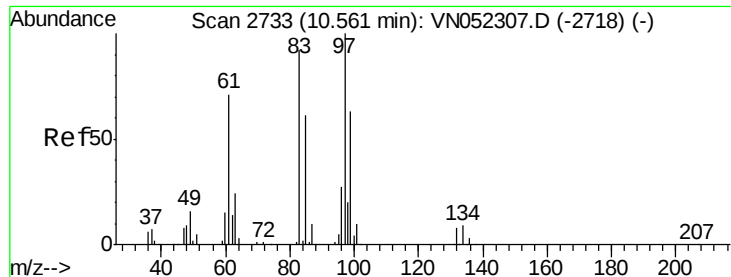
4000

2000

0

Time--> 9.80 9.85 9.90

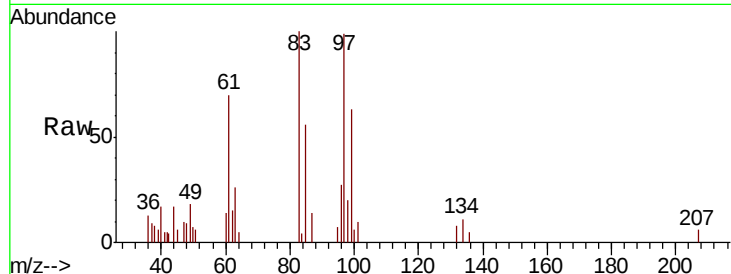




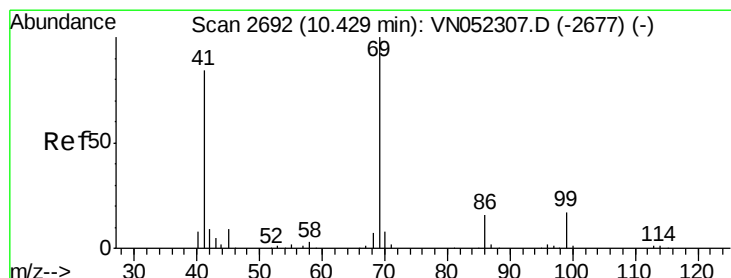
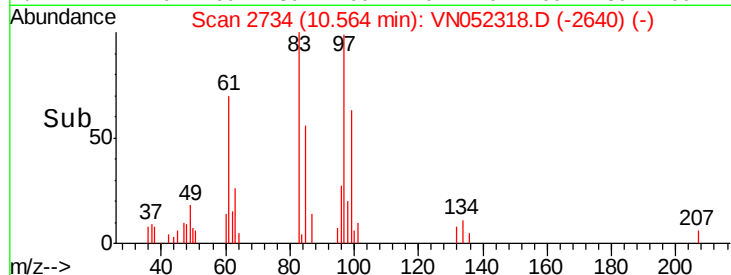
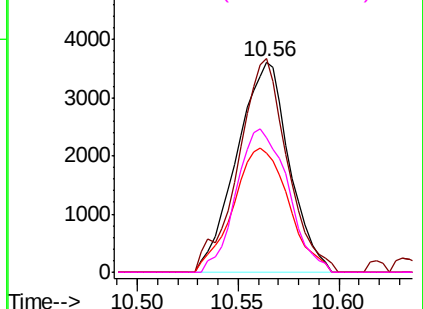
#55
 1,1,2-Trichloroethane
 Concen: 2.419 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tot Ion: 97 Resp: 6548
 Ion Ratio Lower Upper
 97 100
 83 101.5 73.8 110.6
 85 56.9 49.0 73.4
 99 63.8 50.5 75.7

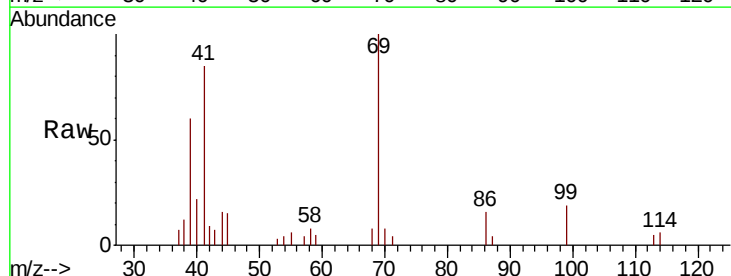


Abundance Ion 96.90 (96.60 to 97.60): VNO
 Ion 82.90 (82.60 to 83.60): VNO
 Ion 84.90 (84.60 to 85.60): VNO
 Ion 98.90 (98.60 to 99.60): VNO

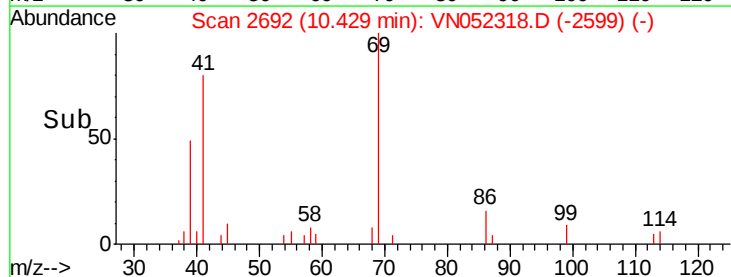
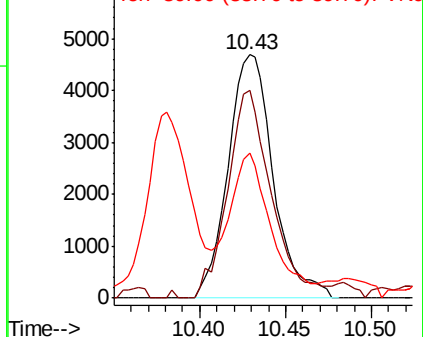


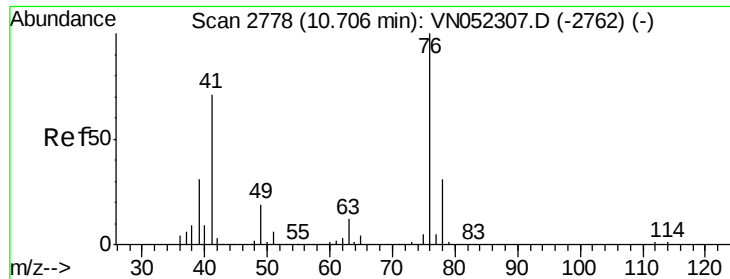
#56
 Ethyl methacrylate
 Concen: 2.413 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 69 Resp: 8591
 Ion Ratio Lower Upper
 69 100
 41 82.6 64.8 97.2
 39 46.8 41.0 61.6



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO

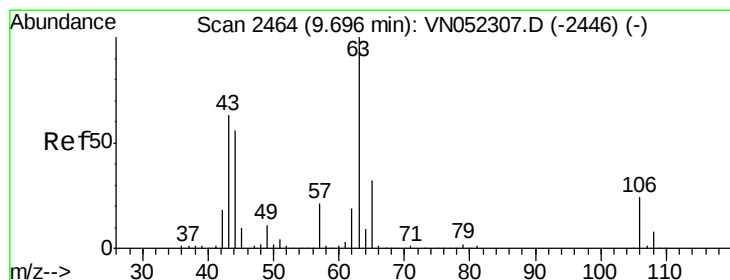
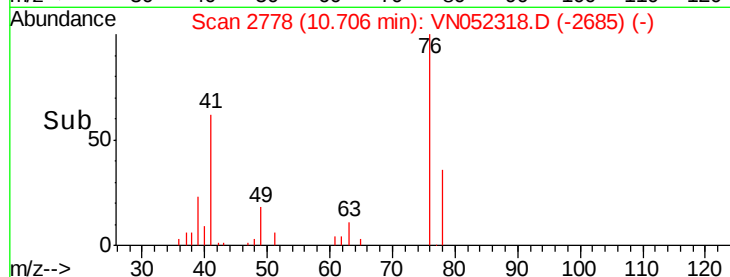
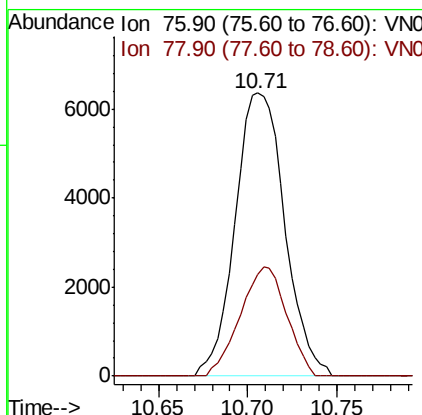
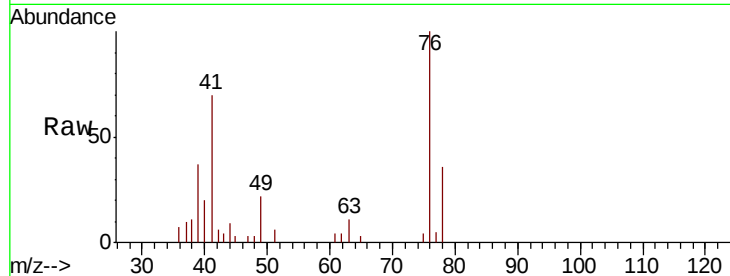




#57
 1,3-Dichloropropane
 Concen: 2.566 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

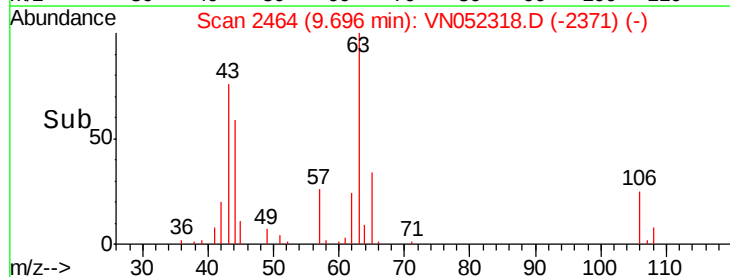
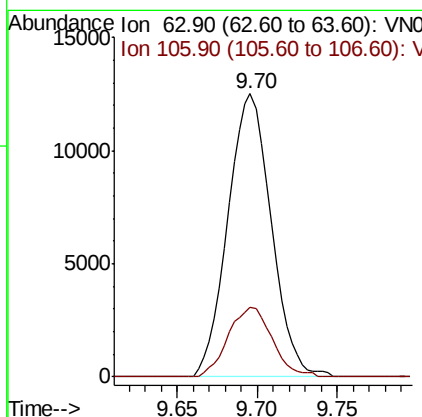
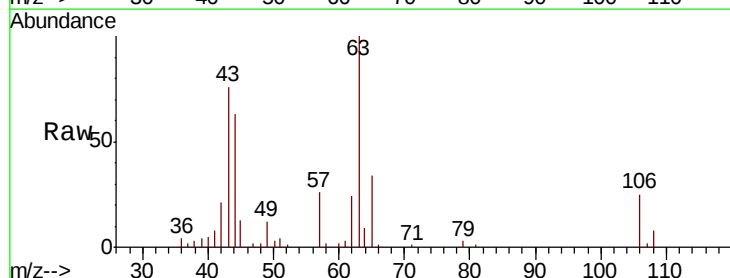
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

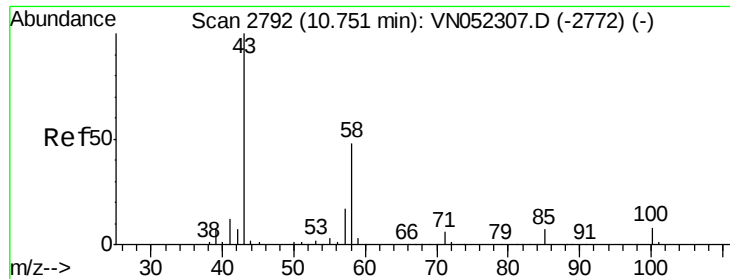
Tot Ion: 76 Resp: 12302
 Ion Ratio Lower Upper
 76 100
 78 36.2 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 11.409 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 63 Resp: 23125
 Ion Ratio Lower Upper
 63 100
 106 24.9 19.3 28.9

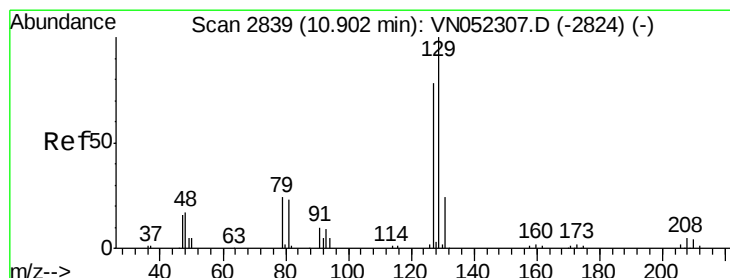
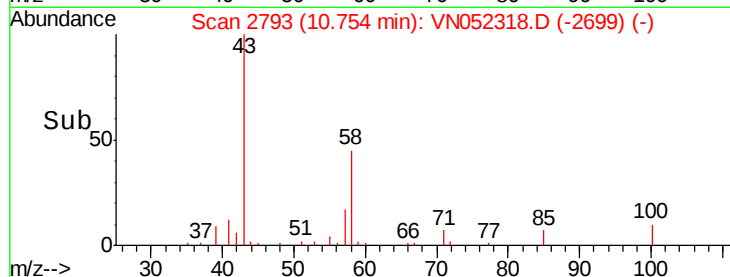
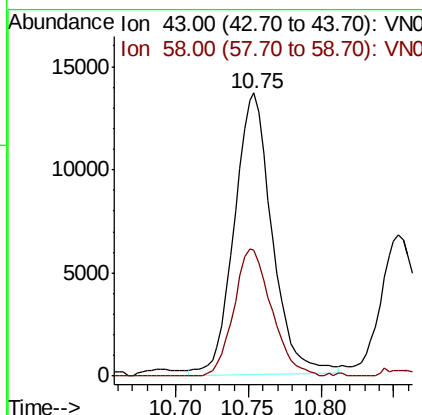
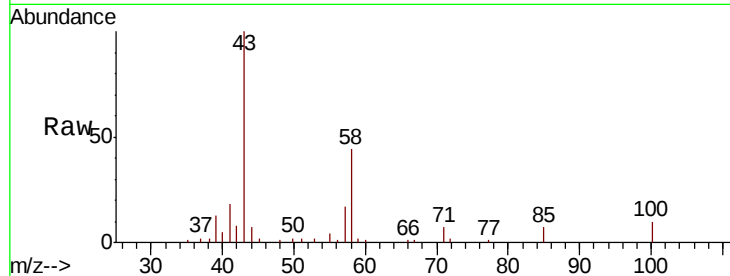




#59
2-Hexanone
Concen: 11.611 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

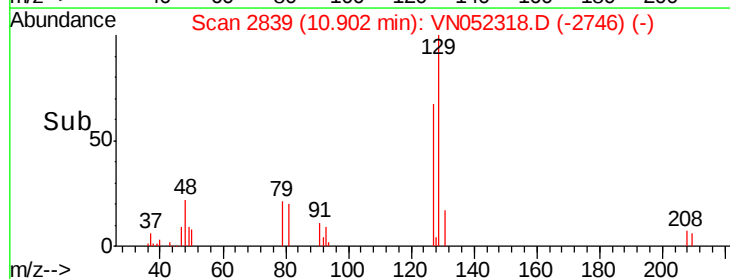
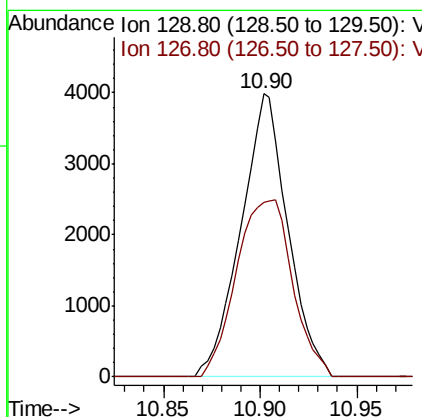
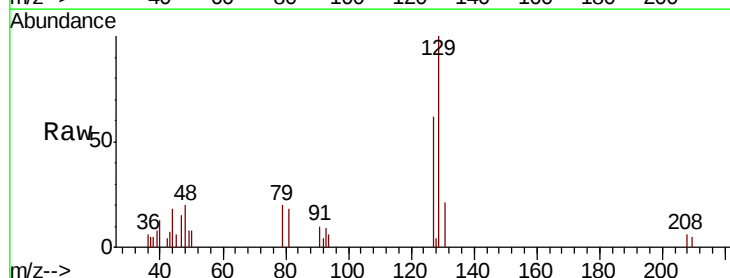
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

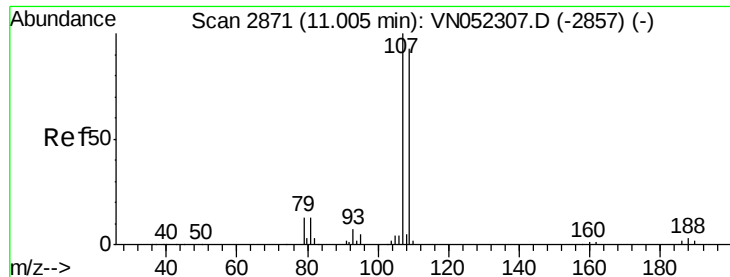
Tot Ion: 43 Resp: 24601
Ion Ratio Lower Upper
43 100
58 45.3 23.5 70.6



#60
Dibromochloromethane
Concen: 2.299 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion:129 Resp: 6733
Ion Ratio Lower Upper
129 100
127 74.5 38.5 115.5





#61

1,2-Dibromoethane

Concen: 2.476 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

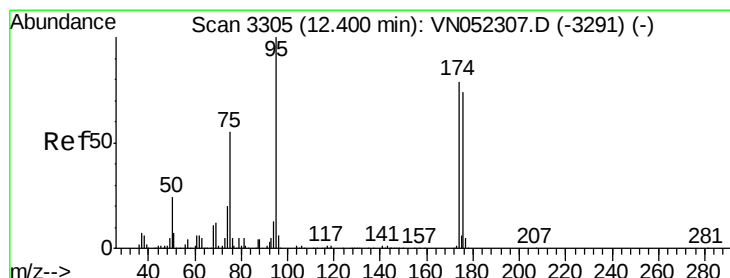
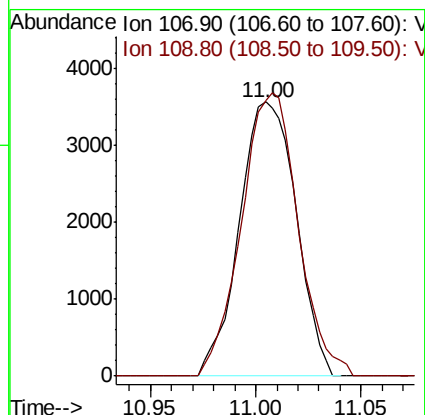
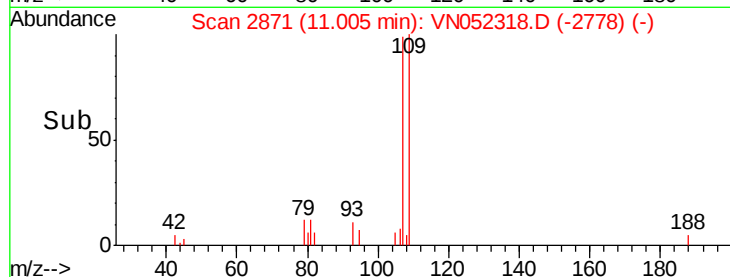
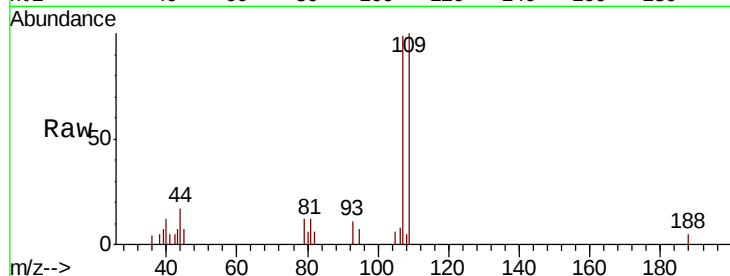
MDL-WATER-03-QT4-2018

Tot Ion:107 Resp: 6676

Ion Ratio Lower Upper

107 100

109 103.0 74.9 112.3



#62

4-Bromofluorobenzene

Concen: 2.476 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

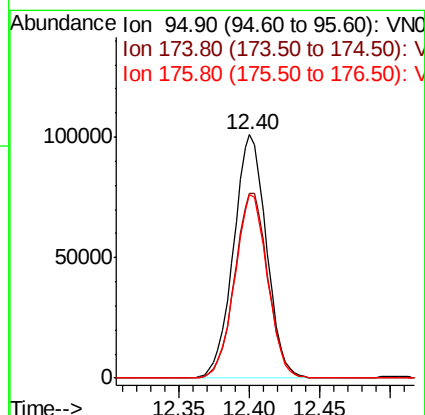
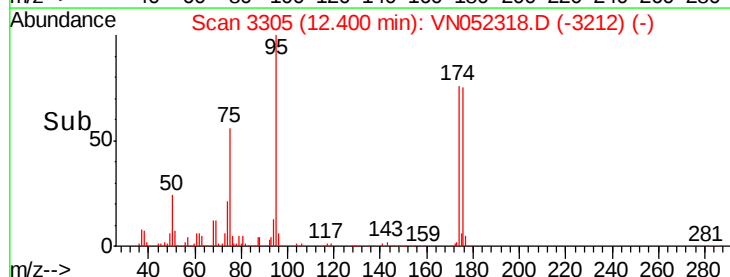
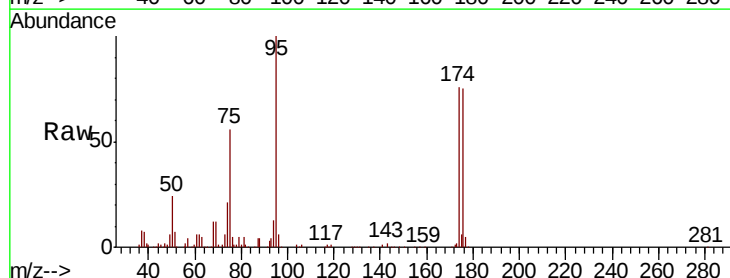
Tgt Ion: 95 Resp: 164795

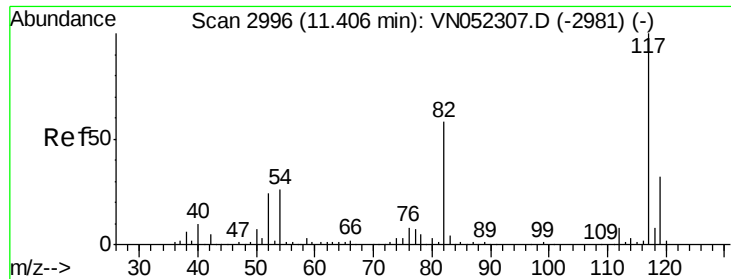
Ion Ratio Lower Upper

95 100

174 77.0 0.0 156.0

176 75.0 0.0 148.4

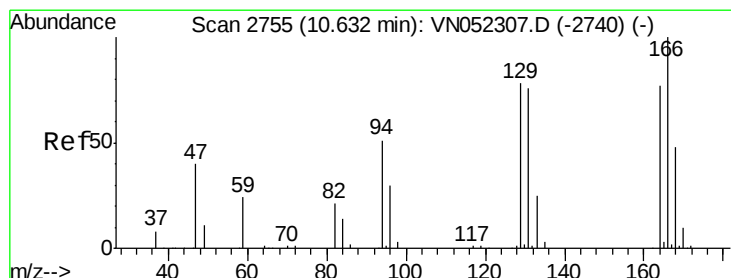
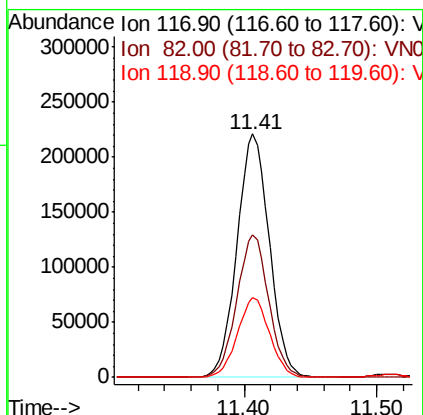
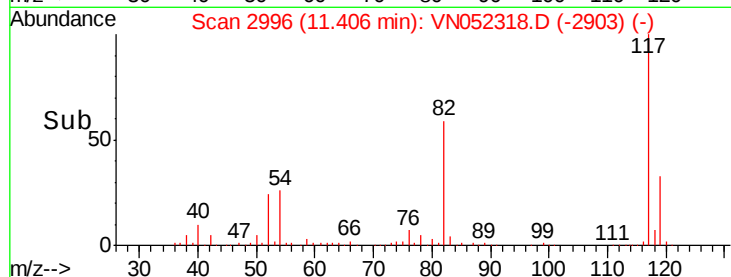
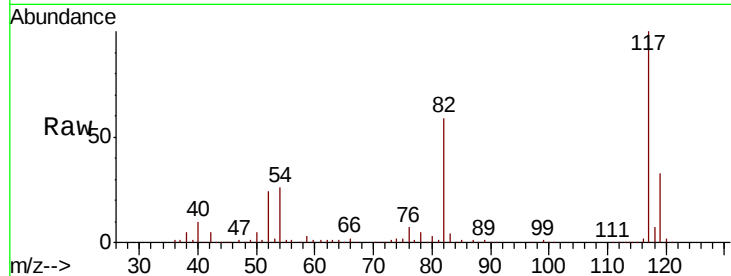




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

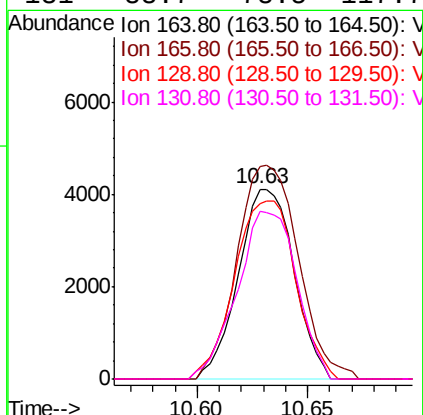
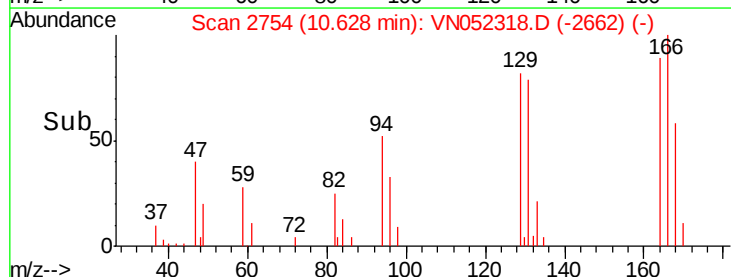
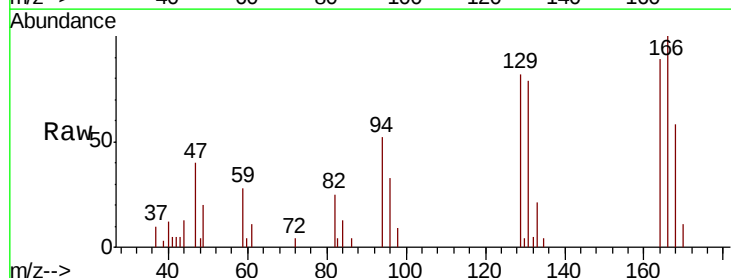
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

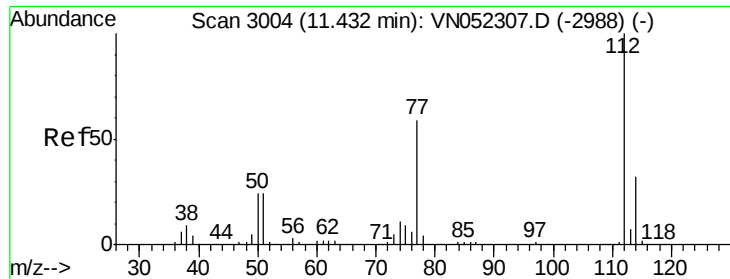
Tot Ion:117 Resp: 374788
Ion Ratio Lower Upper
117 100
82 58.7 46.5 69.7
119 32.7 25.7 38.5



#64
Tetrachloroethene
Concen: 2.704 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion:164 Resp: 7205
Ion Ratio Lower Upper
164 100
166 112.3 103.8 155.6
129 92.6 80.7 121.1
131 88.7 78.5 117.7

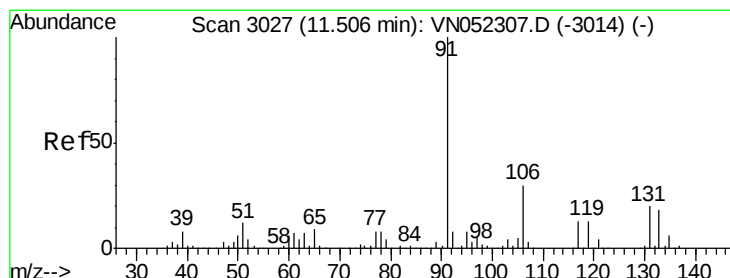
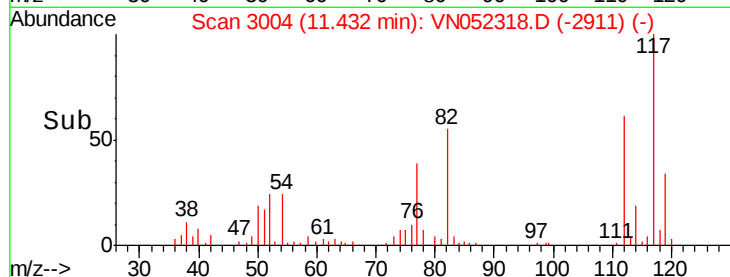
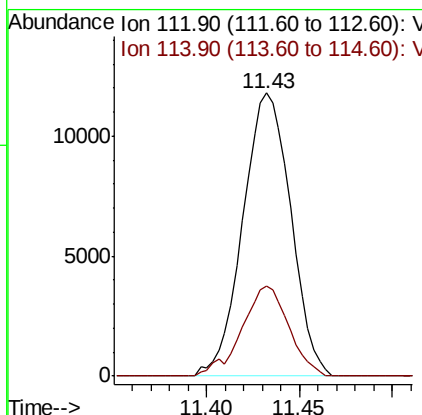
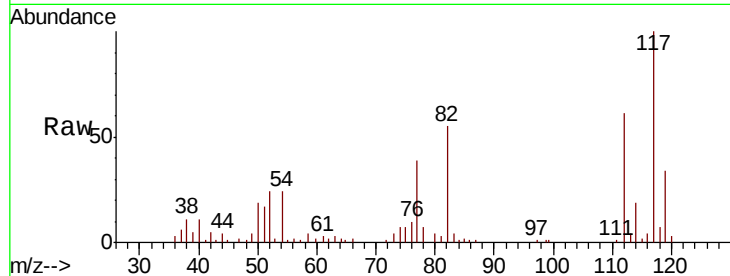




#65
Chlorobenzene
Concen: 2.677 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

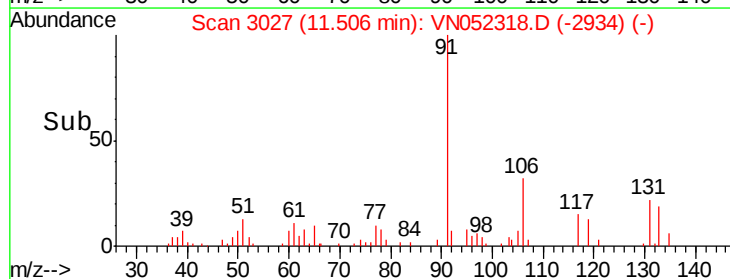
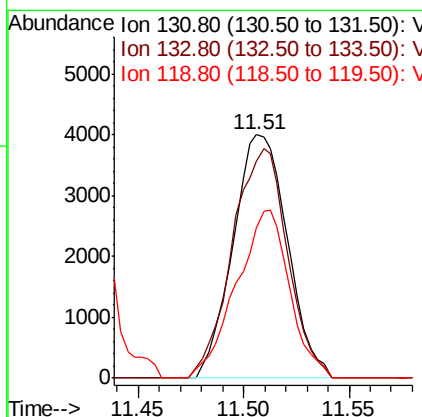
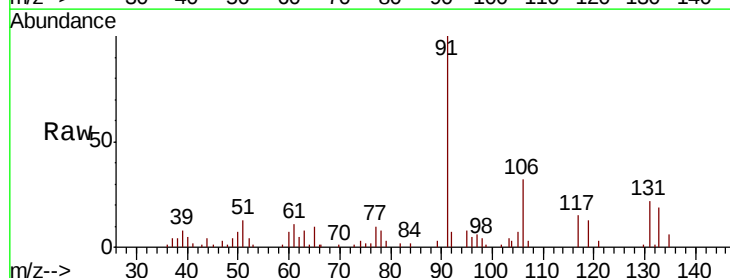
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion:112 Resp: 21208
Ion Ratio Lower Upper
112 100
114 32.0 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 2.648 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion:131 Resp: 7153
Ion Ratio Lower Upper
131 100
133 95.6 47.4 142.3
119 67.6 33.3 99.9

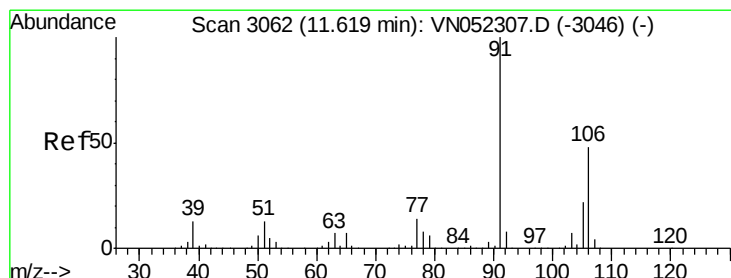
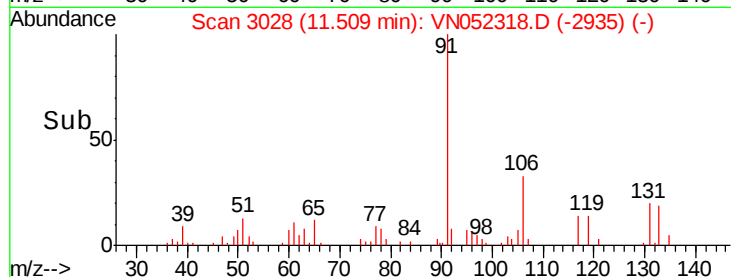
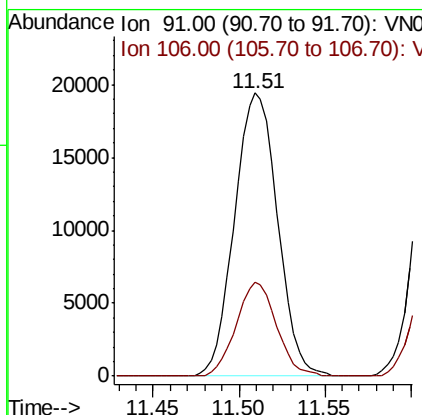
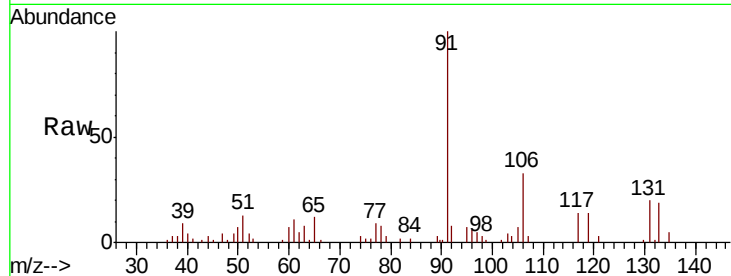




#67
Ethyl Benzene
Concen: 2.453 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

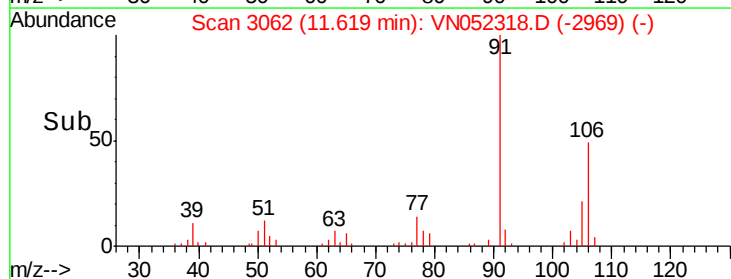
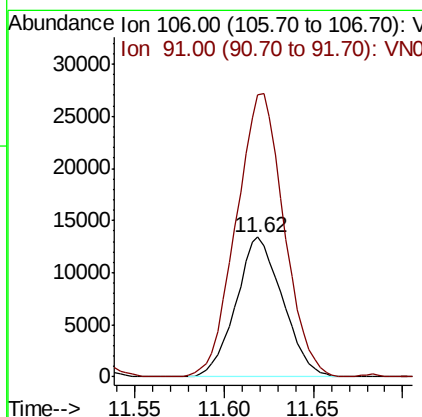
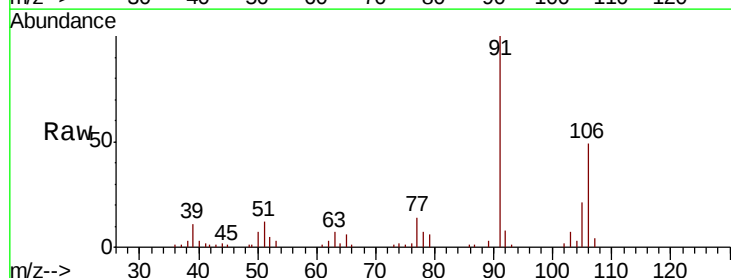
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

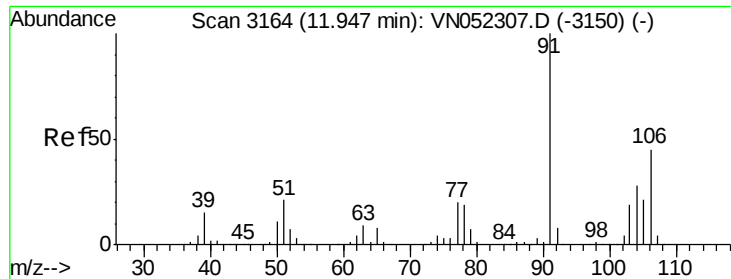
Tot Ion: 91 Resp: 33730
Ion Ratio Lower Upper
91 100
106 33.2 24.2 36.2



#68
m/p-Xylenes
Concen: 4.858 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion: 106 Resp: 24404
Ion Ratio Lower Upper
106 100
91 207.9 165.5 248.3

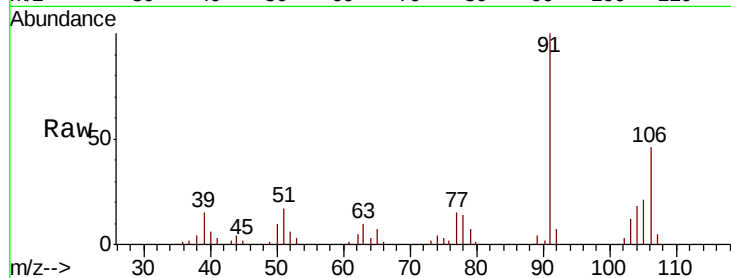




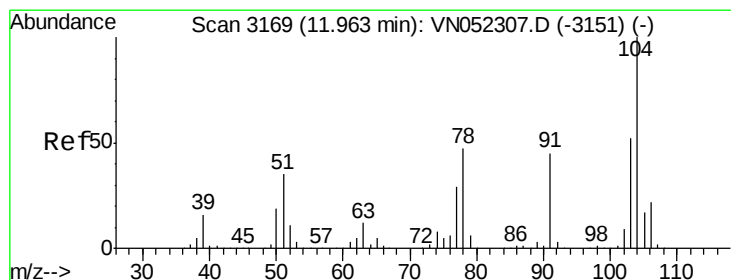
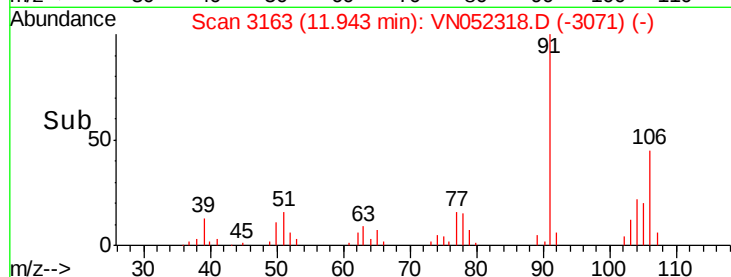
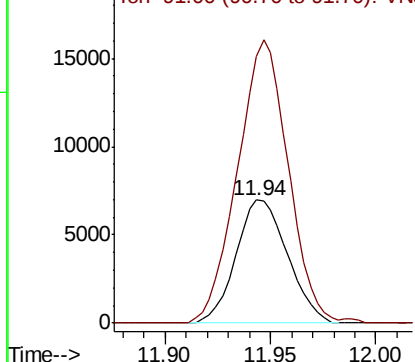
#69
o-Xylene
Concen: 2.454 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion:106 Resp: 11816
Ion Ratio Lower Upper
106 100
91 227.4 110.0 330.0

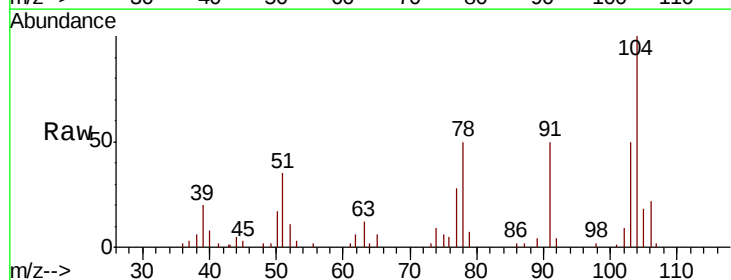


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

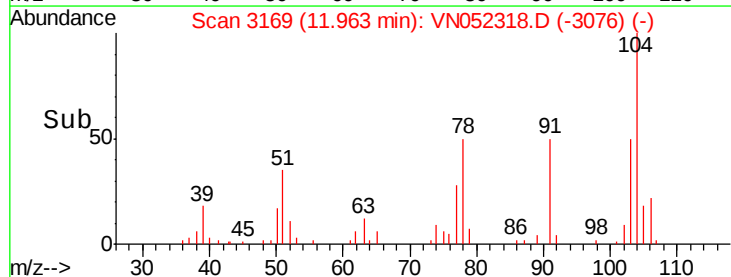
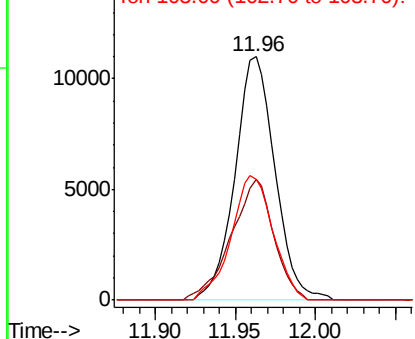


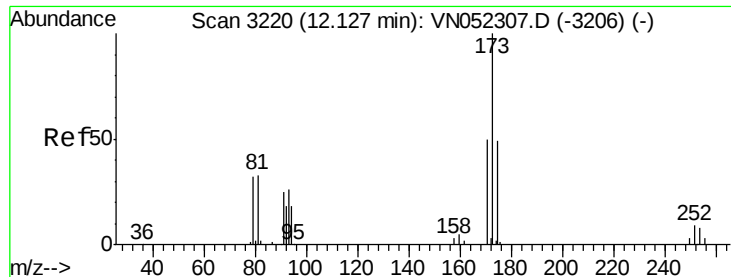
#70
Styrene
Concen: 2.425 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion:104 Resp: 18702
Ion Ratio Lower Upper
104 100
78 52.8 42.7 64.1
103 53.5 45.4 68.0



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 2.161 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

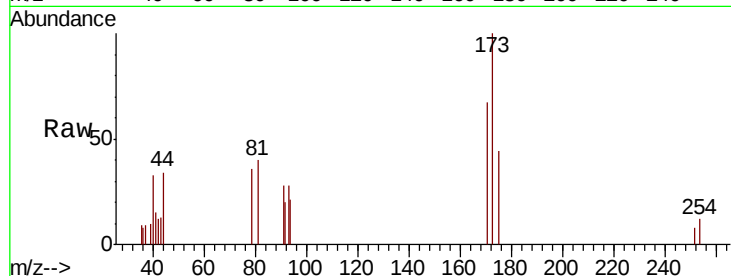
Tot Ion:173 Resp: 3447

Ion Ratio Lower Upper

173 100

175 44.4 25.0 75.0

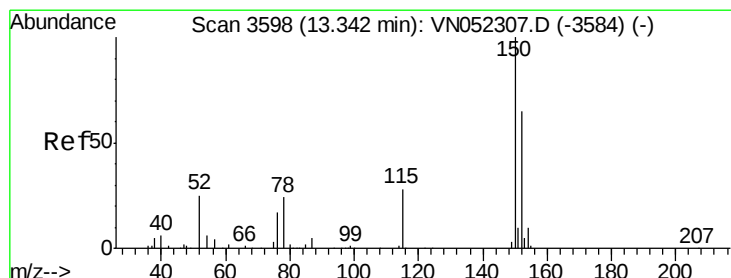
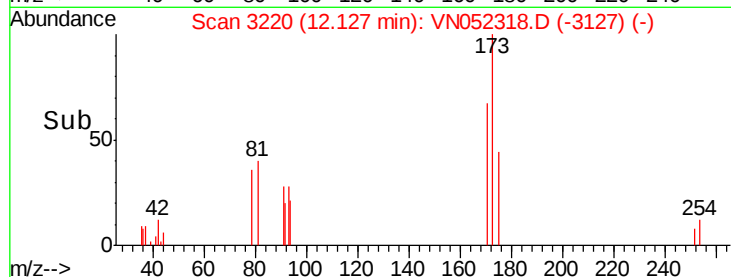
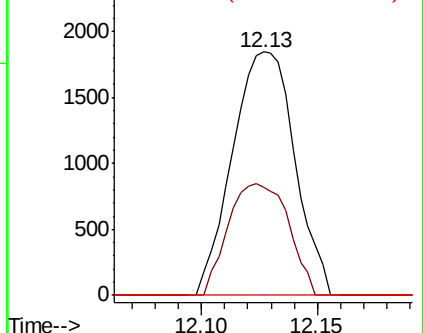
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

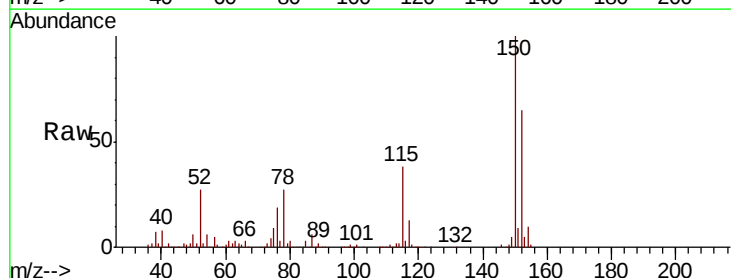
Tgt Ion:152 Resp: 146966

Ion Ratio Lower Upper

152 100

115 59.1 30.3 91.0

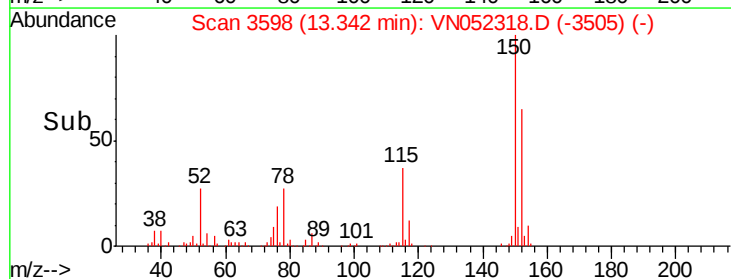
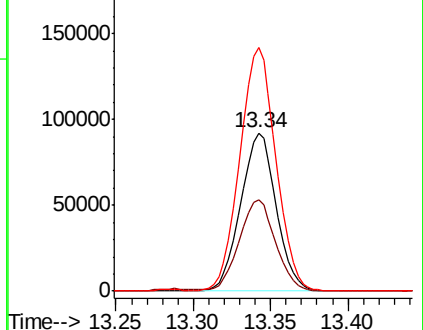
150 156.7 0.0 348.2

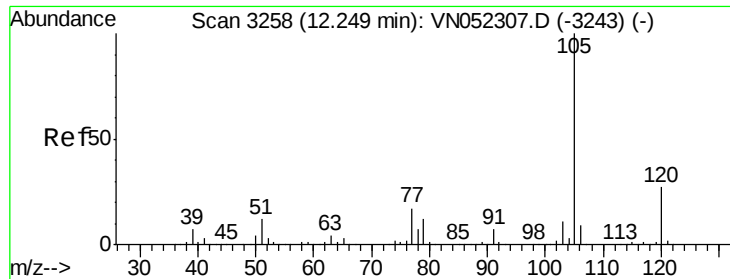


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.599 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

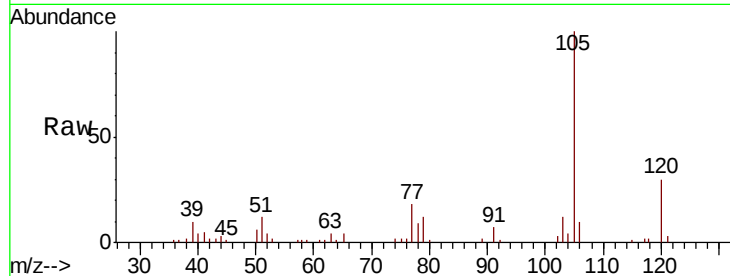
MDL-WATER-03-QT4-2018

Tot Ion: 105 Resp: 30704

Ion Ratio Lower Upper

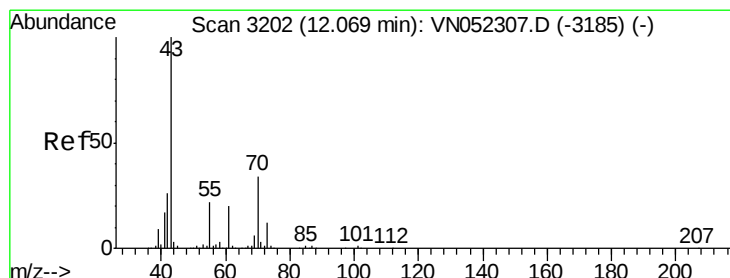
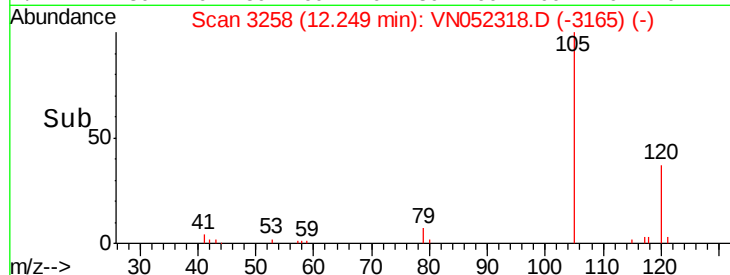
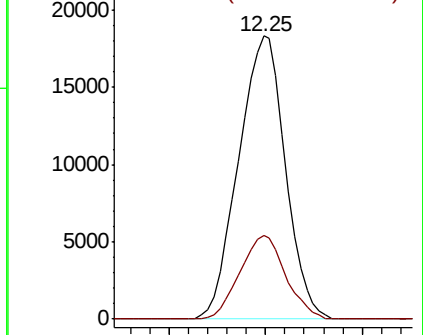
105 100

120 28.9 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.629 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Tgt Ion: 43 Resp: 11066

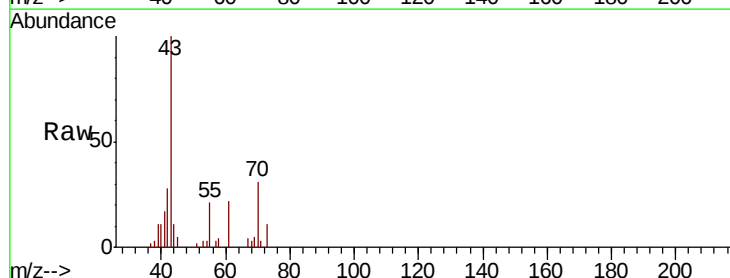
Ion Ratio Lower Upper

43 100

70 28.6 27.1 40.7

55 23.0 17.4 26.0

61 21.8 16.1 24.1

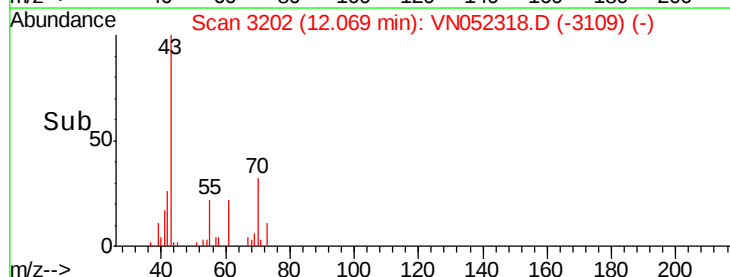
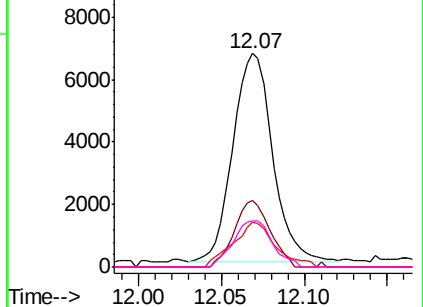


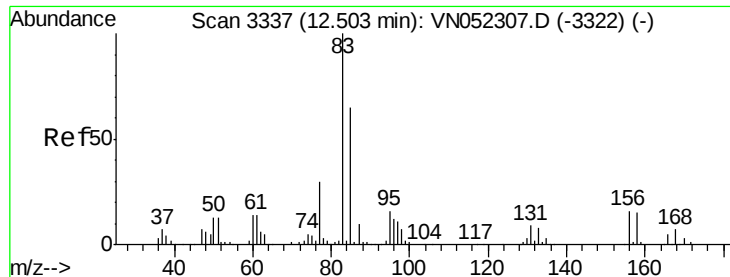
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 3.090 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

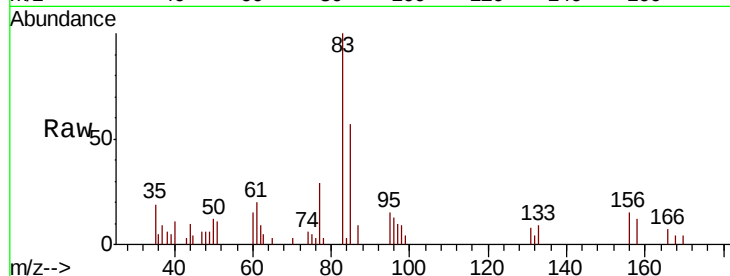
Tot Ion: 83 Resp: 8825

Ion Ratio Lower Upper

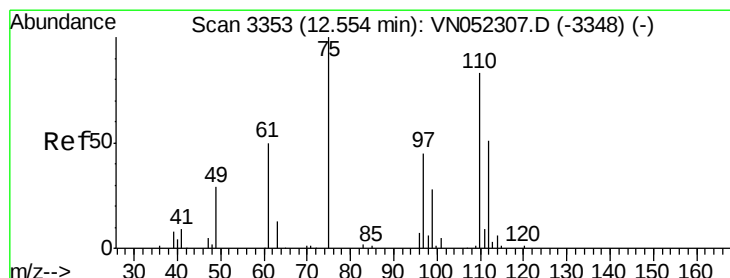
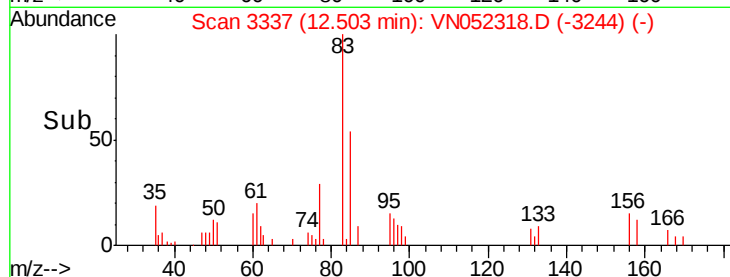
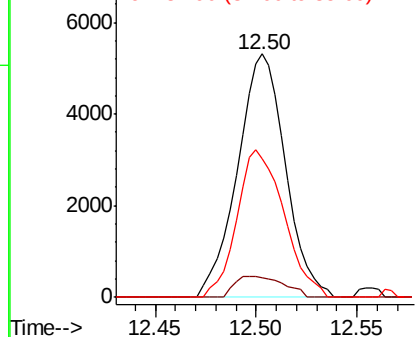
83 100

131 8.9 4.7 14.1

85 59.4 32.4 97.2



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 4.221 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN052318.D

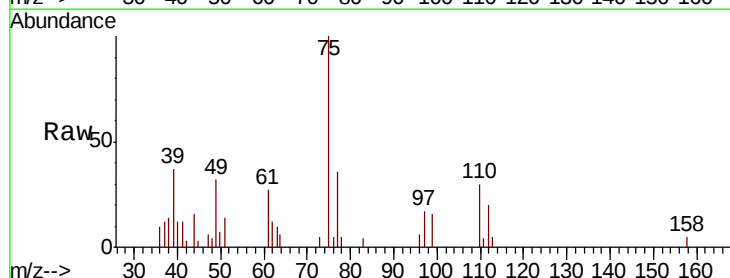
Acq: 14 Nov 2018 17:35

Tgt Ion: 75 Resp: 10526

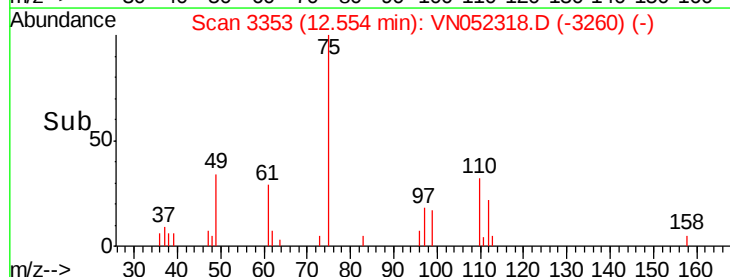
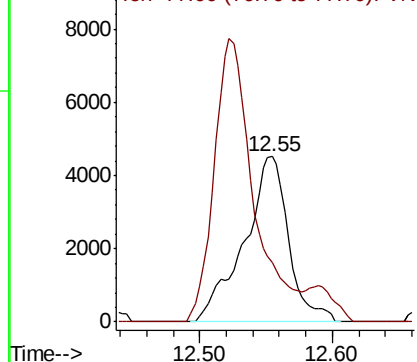
Ion Ratio Lower Upper

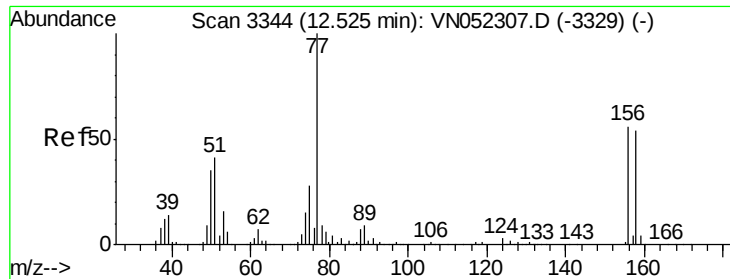
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 2.754 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

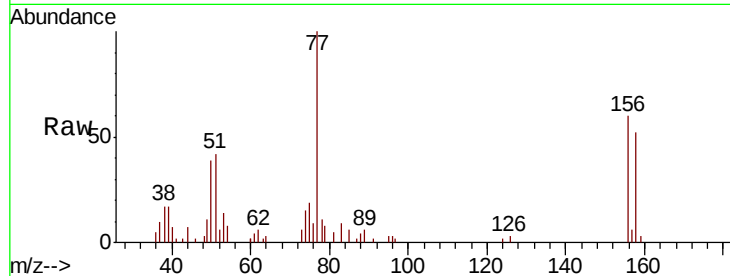
Tot Ion:156 Resp: 7571

Ion Ratio Lower Upper

156 100

77 211.2 103.6 310.9

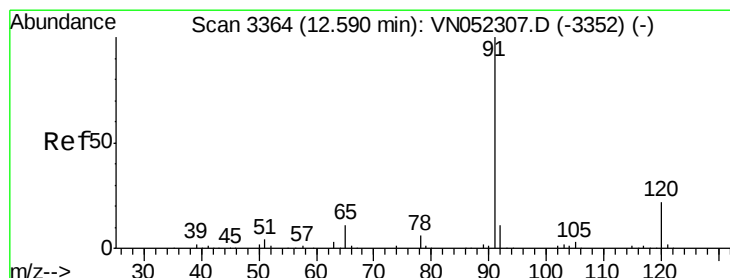
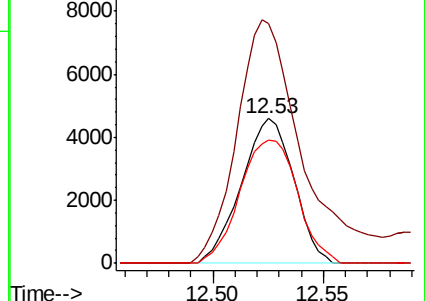
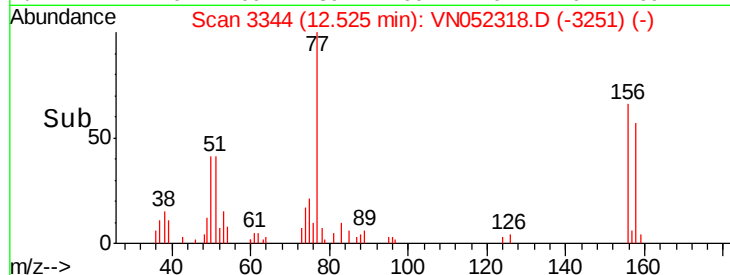
158 93.5 48.1 144.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.578 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN052318.D

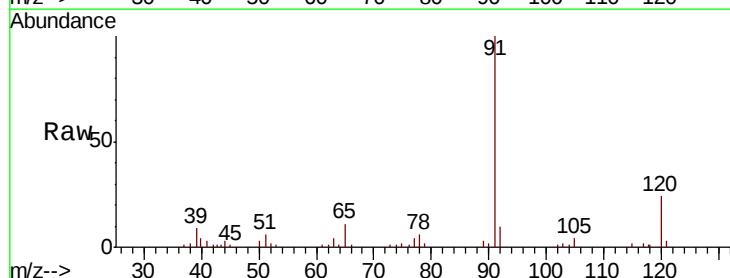
Acq: 14 Nov 2018 17:35

Tgt Ion: 91 Resp: 35619

Ion Ratio Lower Upper

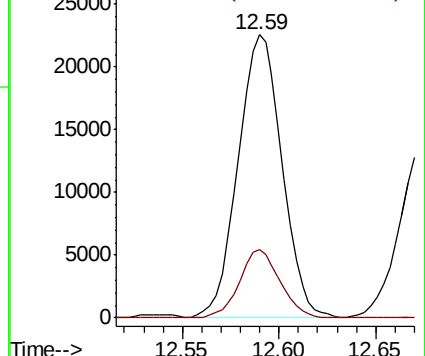
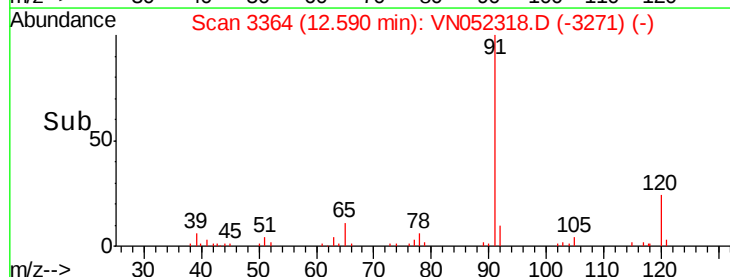
91 100

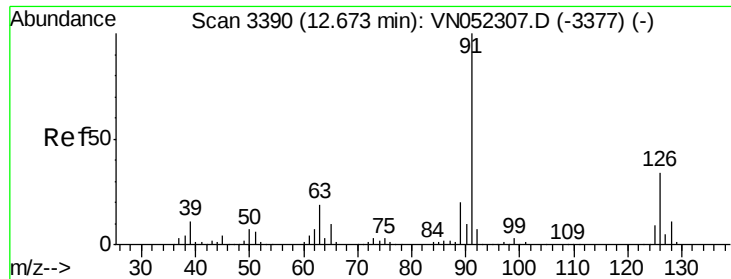
120 22.2 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.690 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

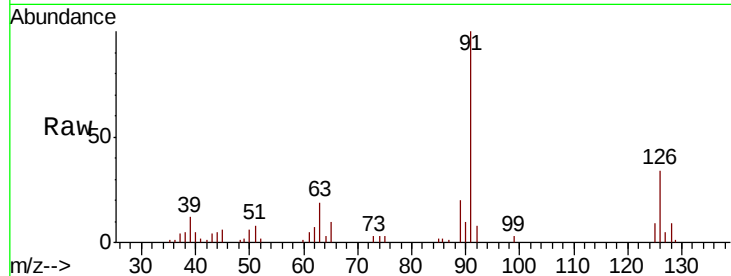
MDL-WATER-03-QT4-2018

Tot Ion: 91 Resp: 21715

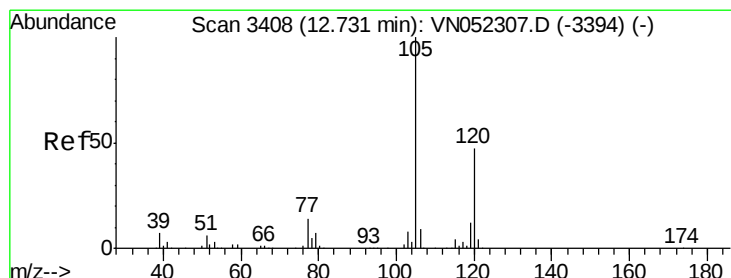
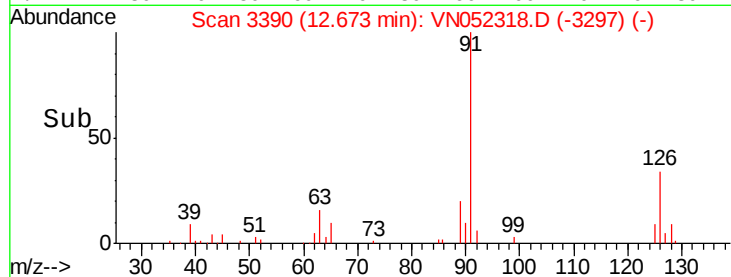
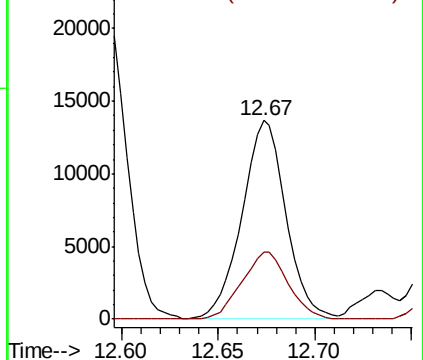
Ion Ratio Lower Upper

91 100

126 35.3 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VN052318.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.643 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052318.D

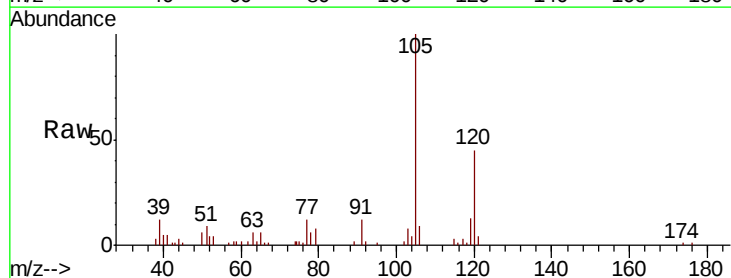
Acq: 14 Nov 2018 17:35

Tgt Ion: 105 Resp: 24833

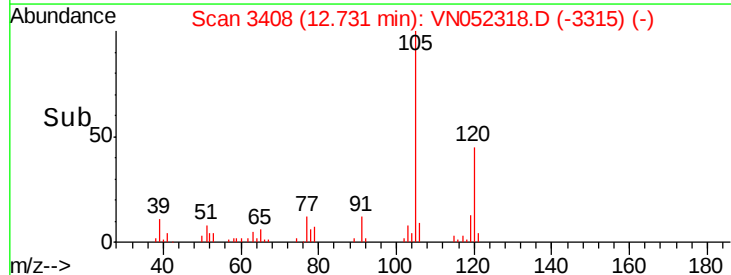
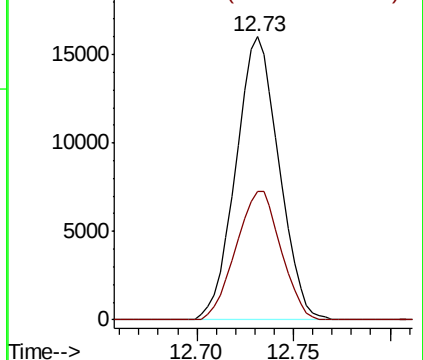
Ion Ratio Lower Upper

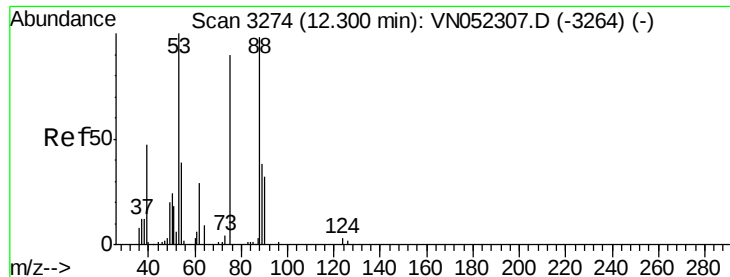
105 100

120 47.1 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN052318.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 120.292 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

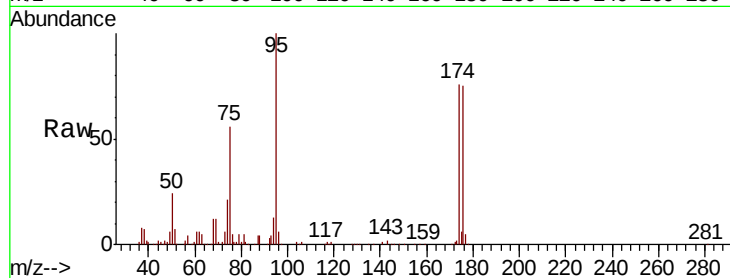
Tot Ion: 75 Resp: 92489

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

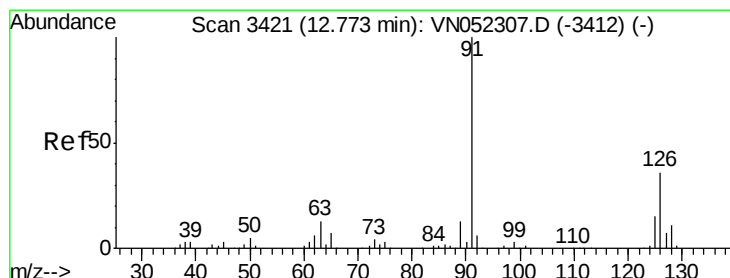
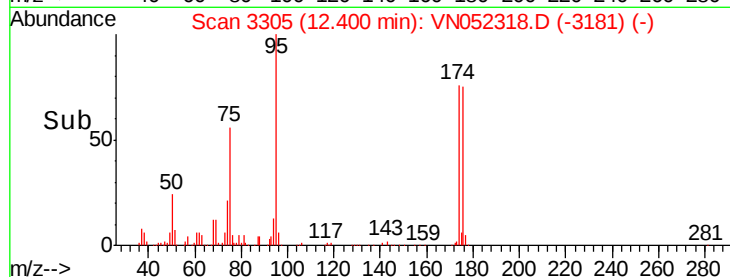
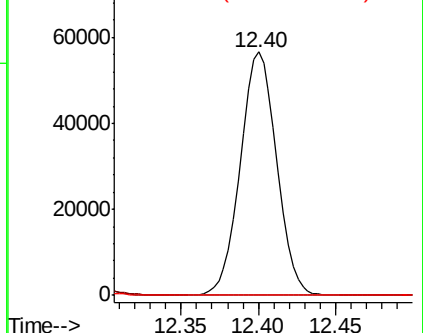
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 2.553 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN052318.D

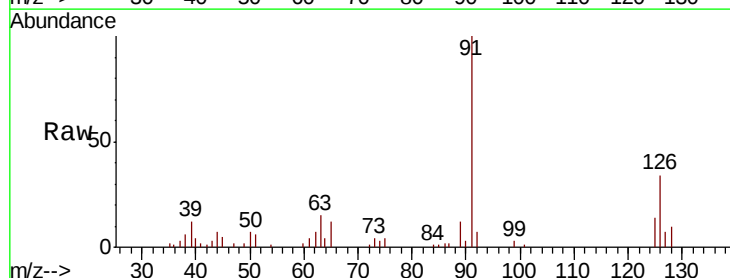
Acq: 14 Nov 2018 17:35

Tgt Ion: 91 Resp: 21117

Ion Ratio Lower Upper

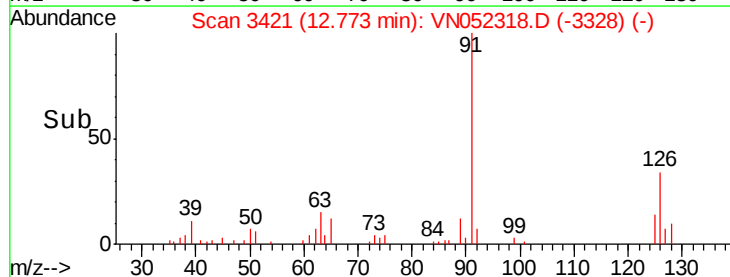
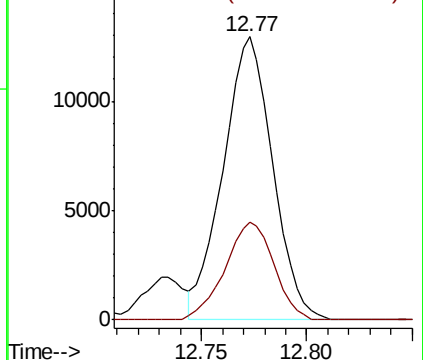
91 100

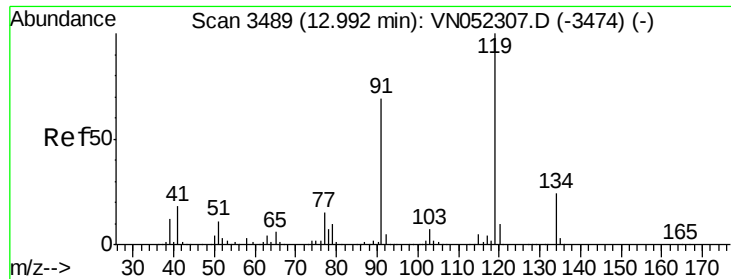
126 34.0 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.606 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

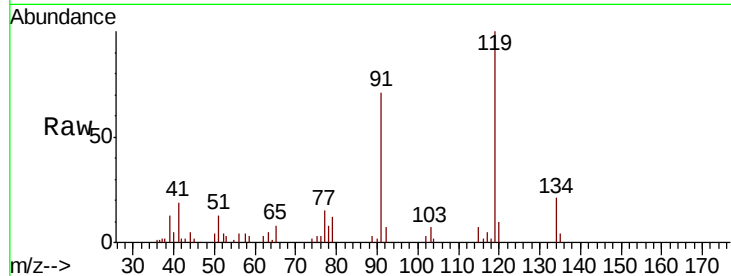
Tot Ion:119 Resp: 21619

Ion Ratio Lower Upper

119 100

91 69.4 33.8 101.3

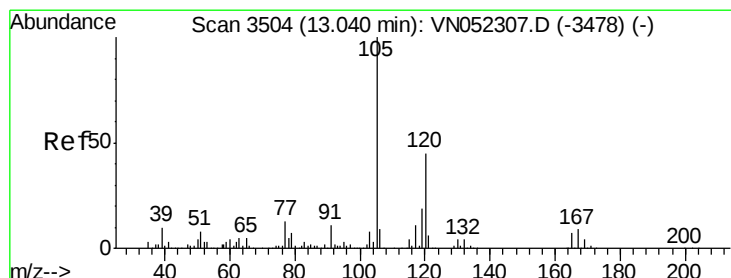
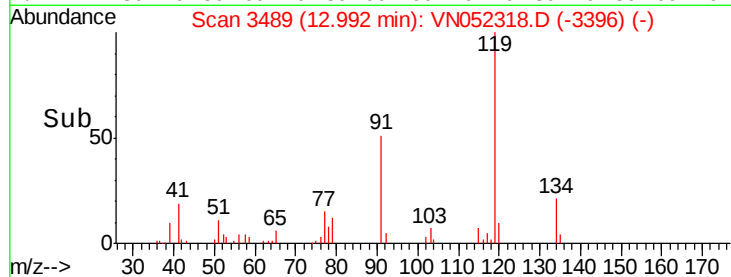
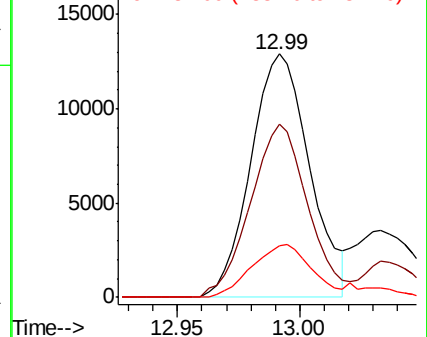
134 21.8 11.9 35.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.433 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN052318.D

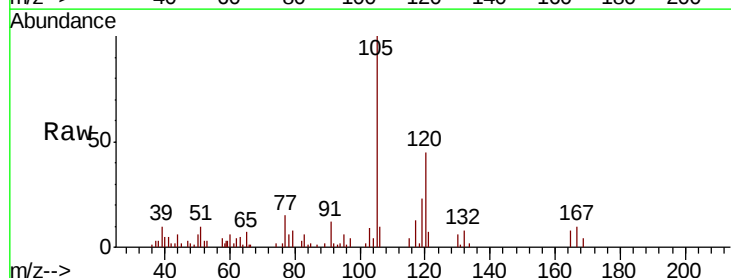
Acq: 14 Nov 2018 17:35

Tgt Ion:105 Resp: 22955

Ion Ratio Lower Upper

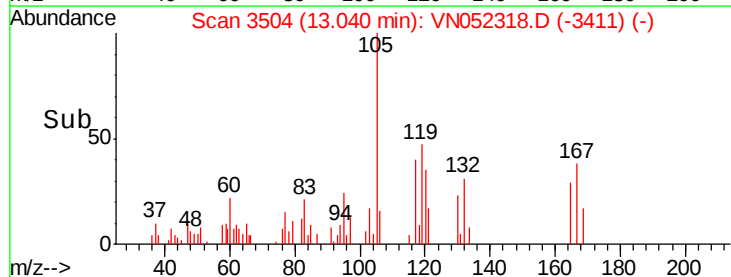
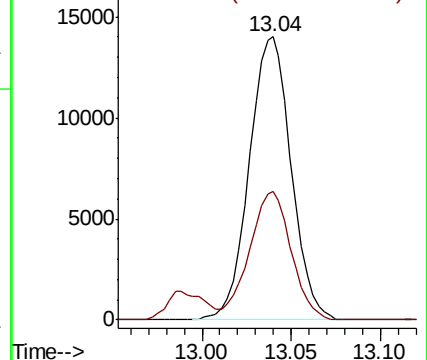
105 100

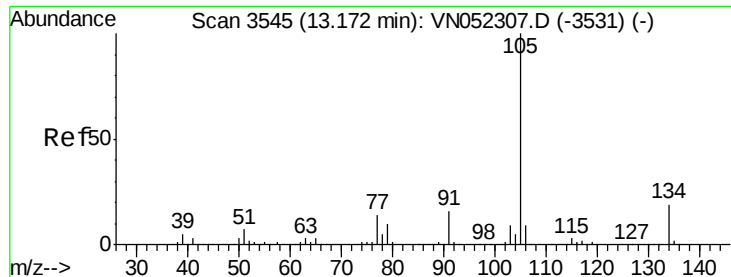
120 45.5 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

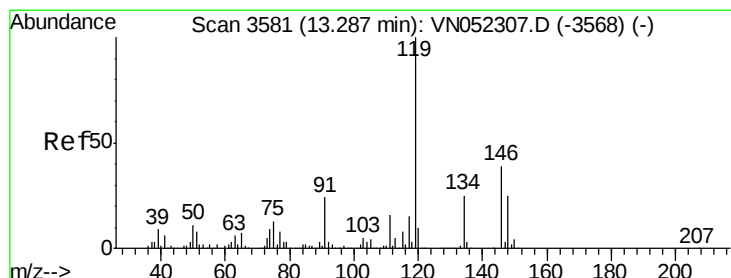
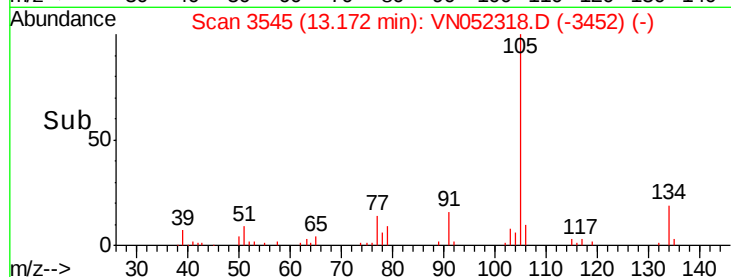
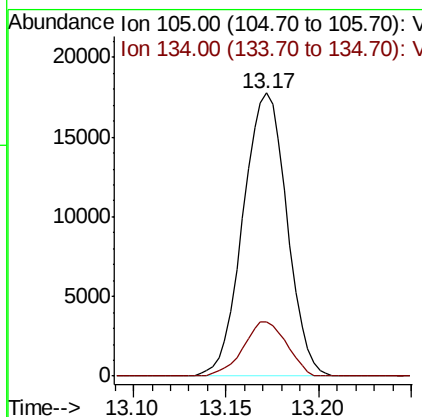
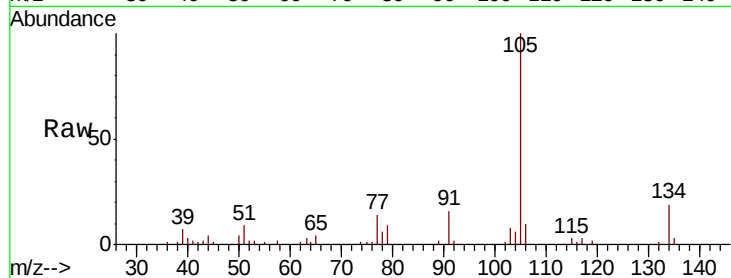




#85
 sec-Butylbenzene
 Concen: 2.596 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

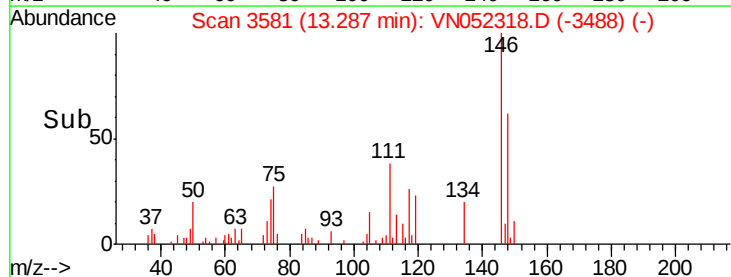
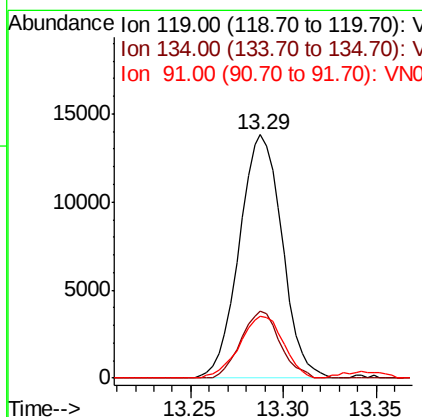
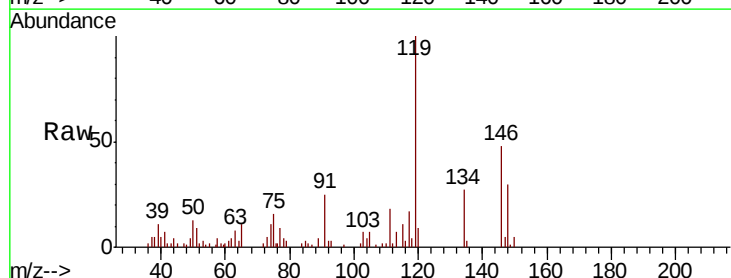
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

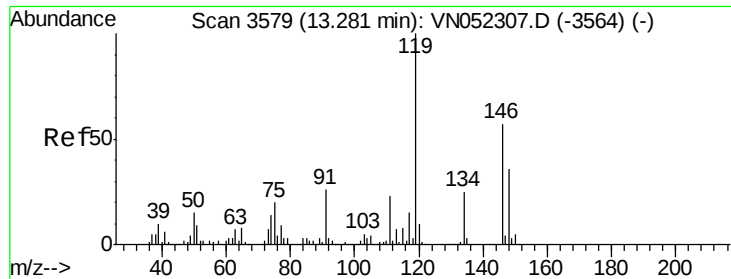
Tot Ion:105 Resp: 29331
 Ion Ratio Lower Upper
 105 100
 134 18.9 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 2.322 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion:119 Resp: 22228
 Ion Ratio Lower Upper
 119 100
 134 25.0 13.0 38.9
 91 26.1 12.4 37.0

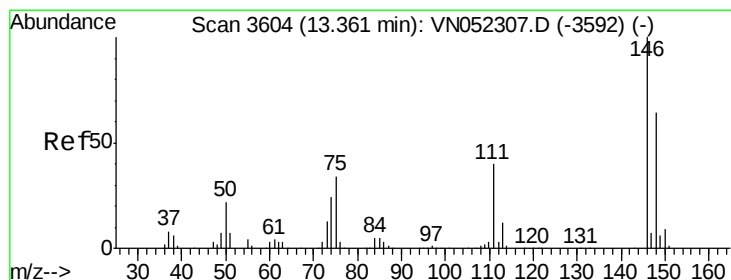
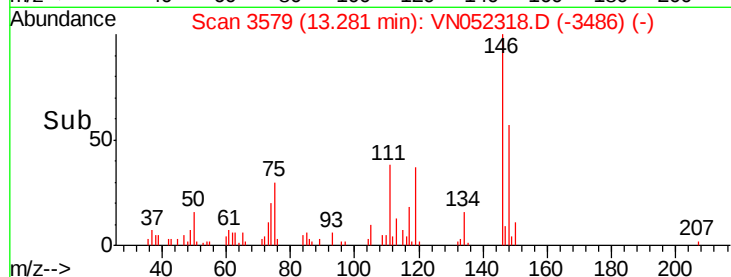
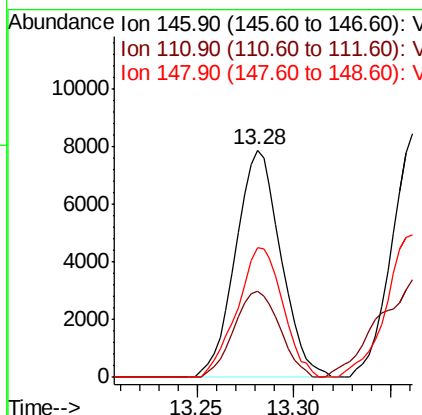
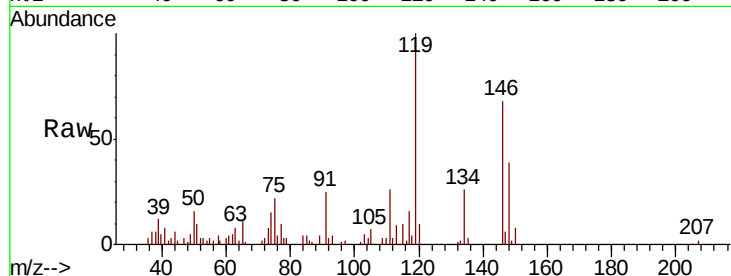




#87
 1,3-Dichlorobenzene
 Concen: 2.630 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

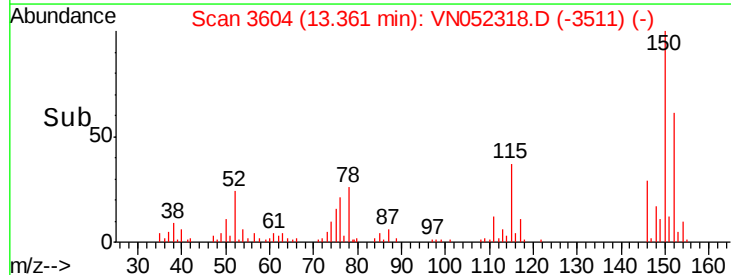
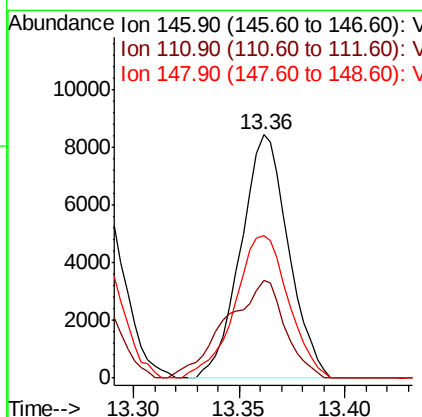
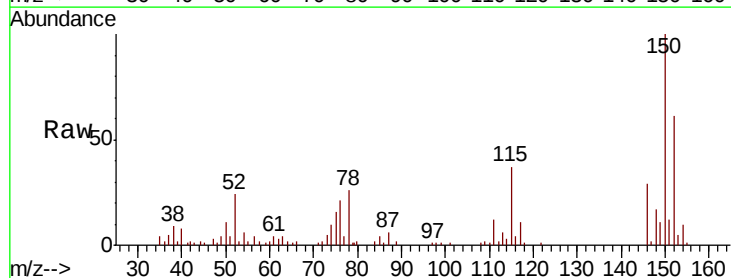
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

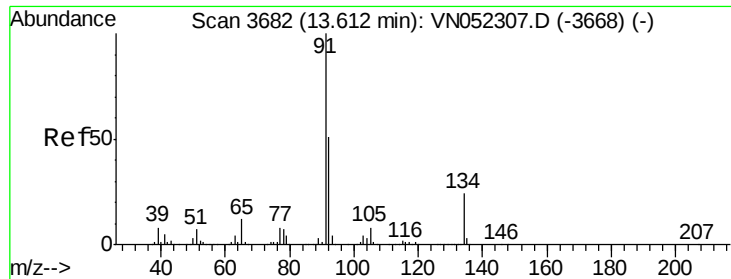
Tot Ion:146 Resp: 12844
 Ion Ratio Lower Upper
 146 100
 111 38.4 20.3 61.0
 148 57.6 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 2.729 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion:146 Resp: 13247
 Ion Ratio Lower Upper
 146 100
 111 49.7 20.6 61.8
 148 65.9 32.4 97.2





#89

n-Butylbenzene

Concen: 2.257 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN052318.D

Acq: 14 Nov 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

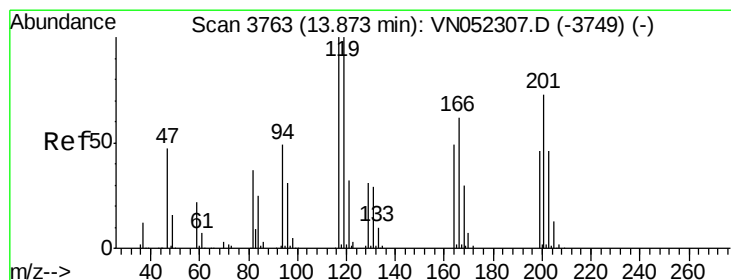
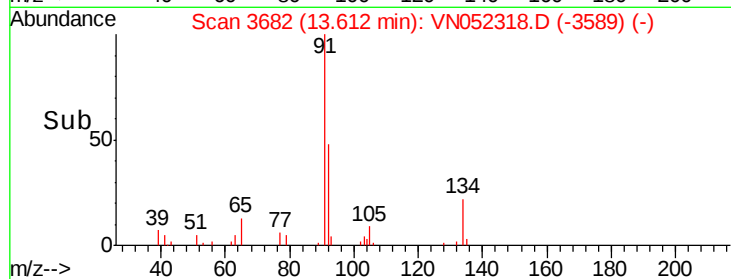
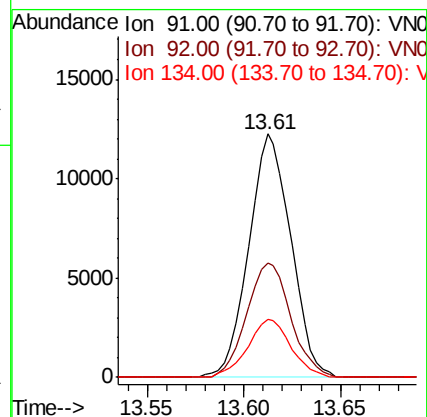
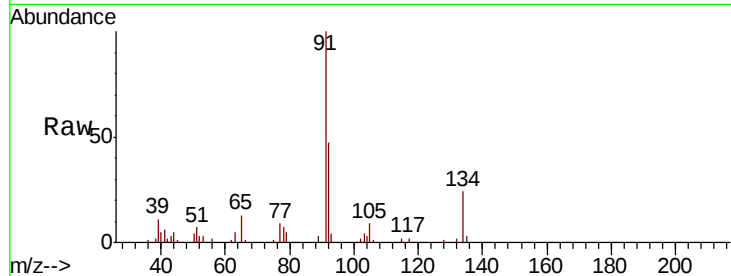
Tot Ion: 91 Resp: 18560

Ion Ratio Lower Upper

91 100

92 49.0 25.4 76.2

134 24.4 12.2 36.4



#90

Hexachloroethane

Concen: 2.245 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN052318.D

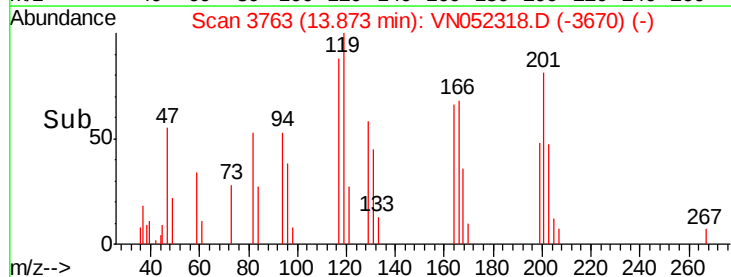
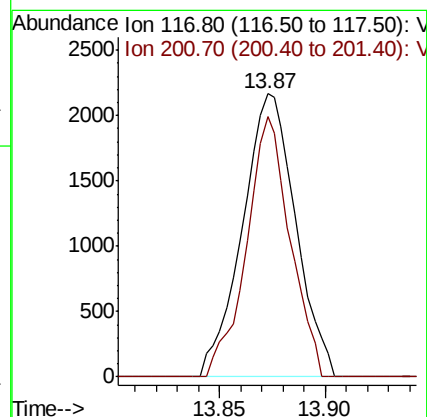
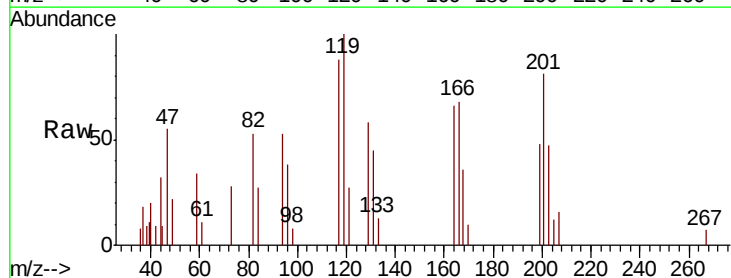
Acq: 14 Nov 2018 17:35

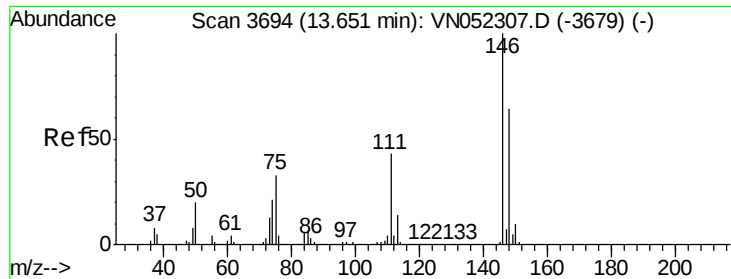
Tgt Ion: 117 Resp: 3807

Ion Ratio Lower Upper

117 100

201 75.0 35.3 105.9

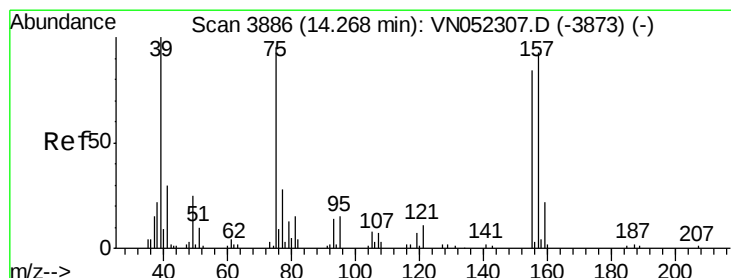
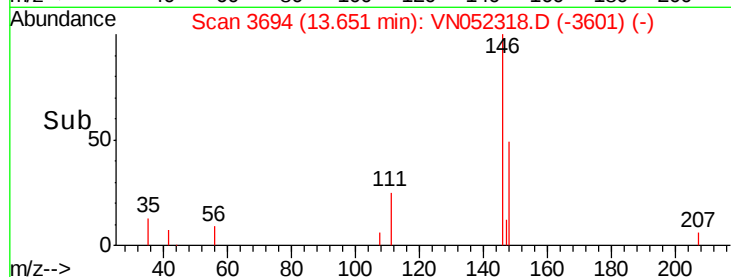
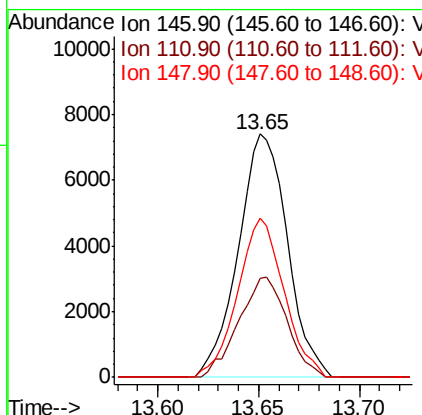
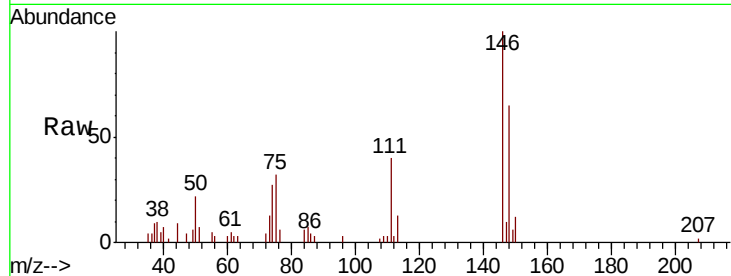




#91
 1,2-Dichlorobenzene
 Concen: 2.664 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

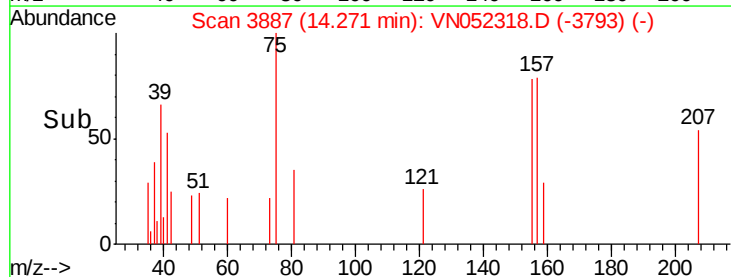
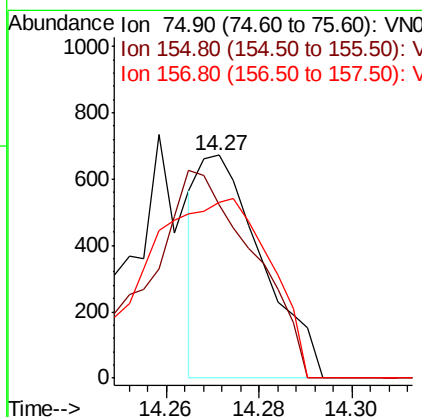
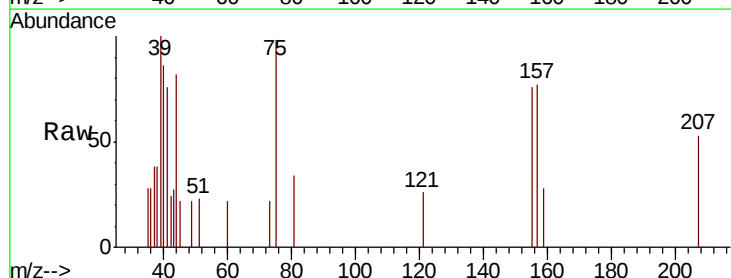
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

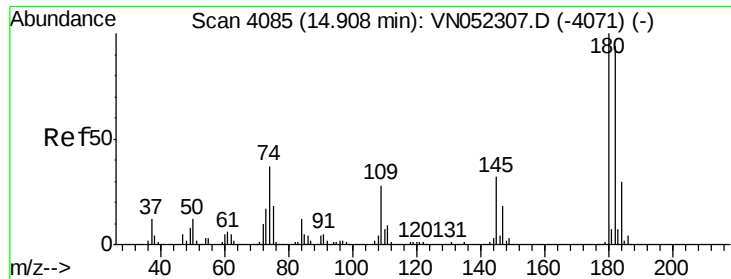
Tot Ion:146 Resp: 12604
 Ion Ratio Lower Upper
 146 100
 111 40.4 21.3 63.9
 148 61.7 31.6 94.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.512 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion: 75 Resp: 637
 Ion Ratio Lower Upper
 75 100
 155 148.8 42.4 127.3#
 157 154.5 49.6 149.0#

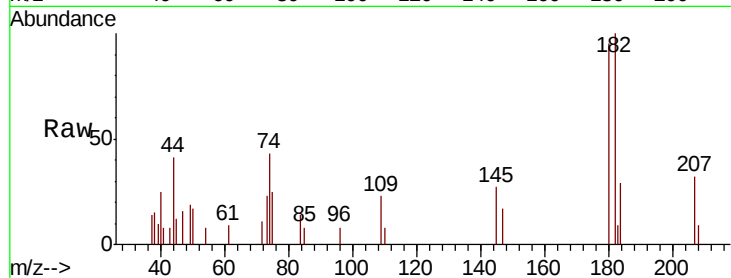




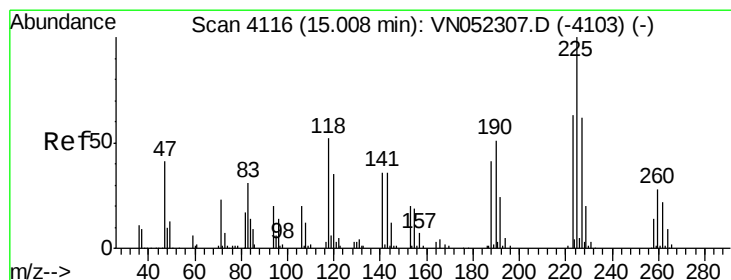
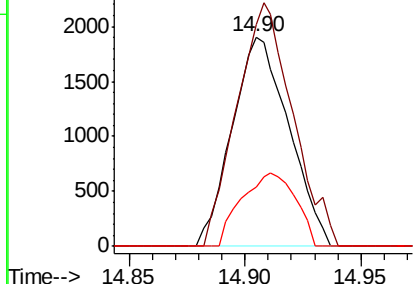
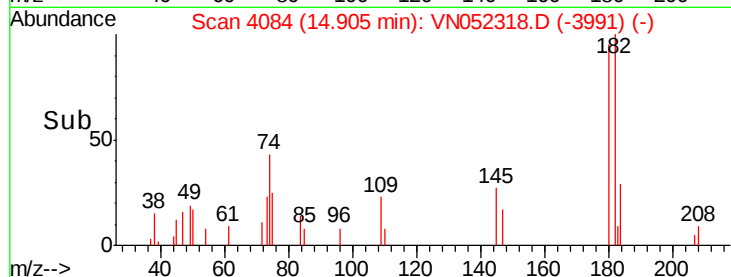
#93
 1,2,4-Trichlorobenzene
 Concen: 3.660 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tot Ion:180 Resp: 3234
 Ion Ratio Lower Upper
 180 100
 182 114.6 47.6 142.9
 145 33.5 15.5 46.5

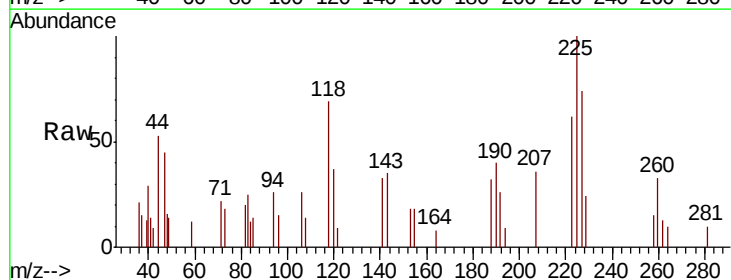


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

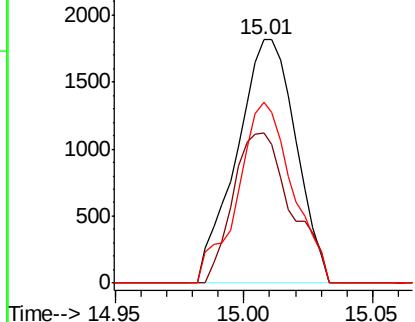
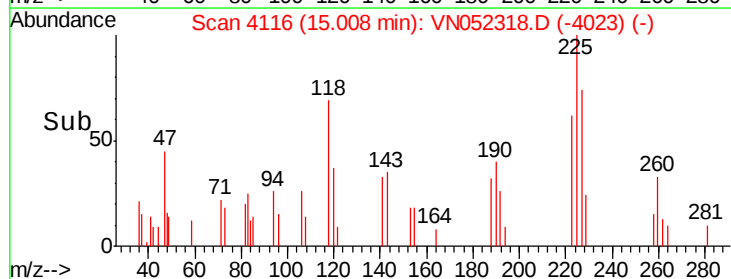


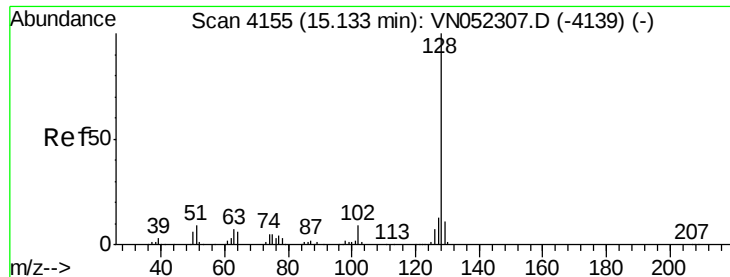
#94
 Hexachlorobutadiene
 Concen: 2.693 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052318.D
 Acq: 14 Nov 2018 17:35

Tgt Ion:225 Resp: 2916
 Ion Ratio Lower Upper
 225 100
 223 60.2 31.9 95.5
 227 68.4 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

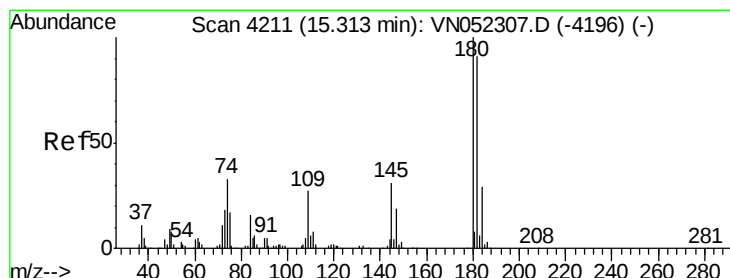
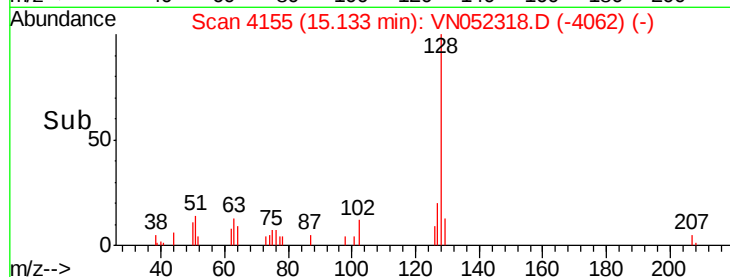
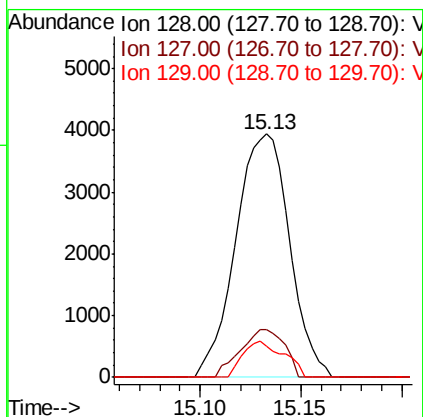
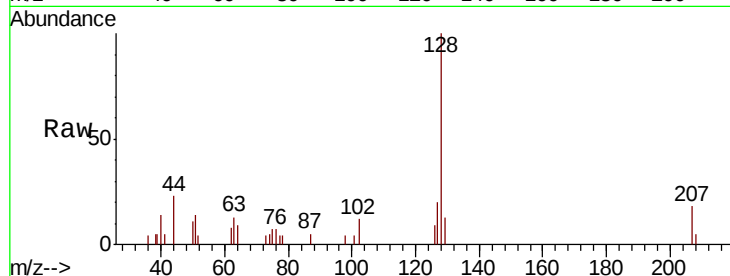




#95
Naphthalene
Concen: 3.946 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

Tot Ion:128 Resp: 7360
Ion Ratio Lower Upper
128 100
127 16.2 10.4 15.6#
129 11.4 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.925 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052318.D
Acq: 14 Nov 2018 17:35

Tgt Ion:180 Resp: 3461
Ion Ratio Lower Upper
180 100
182 95.4 46.5 139.3
145 35.1 16.4 49.2

