

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052316.D
 Acq On : 14 Nov 2018 16:42
 Operator : MD\SY
 Sample : J5164-09 0.5ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

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

Quant Time: Nov 15 04:00:49 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	254198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	450017	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	389875	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136921	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	190875	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
35) Dibromofluoromethane	7.59	113	145373	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
50) Toluene-d8	10.09	98	551259	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
62) 4-Bromofluorobenzene	12.40	95	163191	43.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	1151	0.427	ug/l	84
3) Chloromethane	2.06	50	2280	0.609	ug/l	91
4) Vinyl Chloride	2.19	62	1963	0.607	ug/l	97
5) Bromomethane	2.57	94	1278	0.634	ug/l	93
6) Chloroethane	2.71	64	1241	0.678	ug/l	97
7) Trichlorofluoromethane	3.02	101	2392	0.534	ug/l #	81
8) Diethyl Ether	3.41	74	471	0.276	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	3.75	101	532	0.188	ug/l #	1
10) Methyl Iodide	3.97	142	1579	0.416	ug/l #	91
11) Tert butyl alcohol	4.76	59	407	2.147	ug/l #	72
12) 1,1-Dichloroethene	3.74	96	1489	0.569	ug/l #	76
13) Acrolein	3.62	56	886	24.599	ug/l #	75
14) Allyl chloride	4.32	41	1108	0.206	ug/l #	47
15) Acrylonitrile	4.99	53	1088	1.005	ug/l #	1
16) Acetone	3.82	43	2157	2.182	ug/l	89
17) Carbon Disulfide	4.06	76	4733	0.631	ug/l #	94
18) Methyl Acetate	4.33	43	2055	1.167	ug/l #	72
19) Methyl tert-butyl Ether	5.05	73	3690	0.491	ug/l #	83
20) Methylene Chloride	4.56	84	1638	Below Cal		91
21) trans-1,2-Dichloroethene	5.05	96	523	0.186	ug/l #	48
22) Diisopropyl ether	5.95	45	5994	0.547	ug/l #	89
23) Vinyl Acetate	5.91	43	15750	2.118	ug/l #	91
24) 1,1-Dichloroethane	5.85	63	2368	0.403	ug/l #	85
25) 2-Butanone	6.85	43	3750	2.695	ug/l	94
26) 2,2-Dichloropropane	6.83	77	1382	0.320	ug/l #	64
27) cis-1,2-Dichloroethene	6.84	96	1842	0.562	ug/l #	4
28) Bromochloromethane	7.19	49	380	0.126	ug/l #	83
29) Tetrahydrofuran	7.23	42	2916	3.190	ug/l #	64
30) Chloroform	7.38	83	12344	2.203	ug/l	98
31) Cyclohexane	7.66	56	9802	0.751	ug/l #	32
32) 1,1,1-Trichloroethane	7.56	97	1059	0.222	ug/l #	1
36) 1,1-Dichloropropene	7.79	75	2577	0.571	ug/l #	81
37) Ethyl Acetate	6.94	43	285	0.087	ug/l #	30
38) Carbon Tetrachloride	7.78	117	1977	0.477	ug/l	86

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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	1301	0.253	ug/l #	86
40) Benzene	8.04	78	6526	0.506	ug/l	94
41) Methacrylonitrile	7.18	41	281	3.839	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	2614	0.569	ug/l #	78
43) Isopropyl Acetate	8.16	43	2049	0.324	ug/l #	74
44) Trichloroethene	8.84	130	1762	0.555	ug/l	76
45) 1,2-Dichloropropane	9.12	63	2200	0.602	ug/l #	82
46) Dibromomethane	9.21	93	1164	0.550	ug/l	88
47) Bromodichloromethane	9.40	83	3184	0.733	ug/l #	91
48) Methyl methacrylate	9.20	41	1929	0.602	ug/l #	71
51) 4-Methyl-2-Pentanone	9.98	43	7914	2.489	ug/l	97
52) Toluene	10.15	92	3818	0.495	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	1822	0.416	ug/l	89
54) cis-1,3-Dichloropropene	9.84	75	2607	0.522	ug/l #	85
55) 1,1,2-Trichloroethane	10.56	97	1516	0.543	ug/l #	86
56) Ethyl methacrylate	10.43	69	1597	0.435	ug/l #	80
57) 1,3-Dichloropropane	10.70	76	2320	0.469	ug/l	90
58) 2-Chloroethyl Vinyl ether	9.69	63	5018	2.398	ug/l	90
59) 2-Hexanone	10.75	43	4413	2.018	ug/l	90
60) Dibromochloromethane	10.90	129	1171	0.387	ug/l	89
61) 1,2-Dibromoethane	11.01	107	1315	0.472	ug/l	94
64) Tetrachloroethene	10.63	164	1438	0.519	ug/l	90
65) Chlorobenzene	11.43	112	4334	0.526	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	765	0.272	ug/l #	10
67) Ethyl Benzene	11.51	91	6963	0.487	ug/l	92
68) m/p-Xylenes	11.62	106	5056	0.967	ug/l	96
69) o-Xylene	11.95	106	2261	0.451	ug/l	86
70) Stvrene	11.97	104	3373	0.421	ug/l	90
71) Bromoform	12.12	173	693	0.418	ug/l #	90
73) Isopropylbenzene	12.25	105	5918	0.538	ug/l	99
74) N-amyl acetate	12.07	43	2327	0.593	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.51	83	1504	0.565	ug/l #	61
76) 1,2,3-Trichloropropane	12.40	75	90657	39.021	ug/l #	100
77) Bromobenzene	12.53	156	1806	0.705	ug/l	85
78) n-propylbenzene	12.59	91	7058	0.548	ug/l	97
79) 2-Chlorotoluene	12.68	91	4591	0.610	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	4645	0.531	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	90657	126.560	ug/l #	5
82) 4-Chlorotoluene	12.77	91	5029	0.653	ug/l	90
83) tert-Butylbenzene	12.99	119	4454	0.576	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	4841	0.551	ug/l	99
85) sec-Butylbenzene	13.17	105	5422	0.515	ug/l	95
86) p-Isopropyltoluene	13.29	119	4150	0.465	ug/l	93
87) 1,3-Dichlorobenzene	13.28	146	2716	0.597	ug/l	95
88) 1,4-Dichlorobenzene	13.28	146	2716	0.601	ug/l	94
89) n-Butylbenzene	13.61	91	3685	0.481	ug/l	99
90) Hexachloroethane	13.88	117	747	0.473	ug/l	58
91) 1,2-Dichlorobenzene	13.65	146	2401	0.545	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	14.27	75	29	0.074	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	797	2.628	ug/l #	68

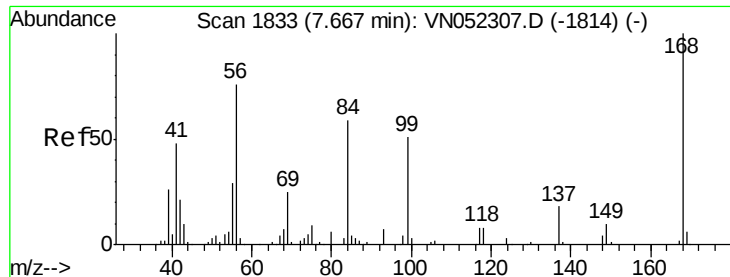
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.00	225	574	0.569	ug/l #	57
95) Naphthalene	15.13	128	1631	2.924	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.31	180	773	0.462	ug/l	78

(#) = 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: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

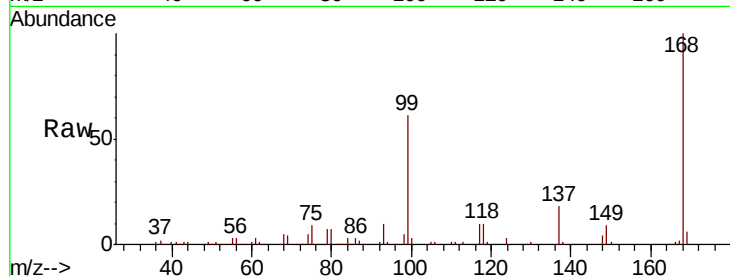
MDL-WATER-03-QT4-2018

Tot Ion:168 Resp: 254198

Ion Ratio Lower Upper

168 100

99 61.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

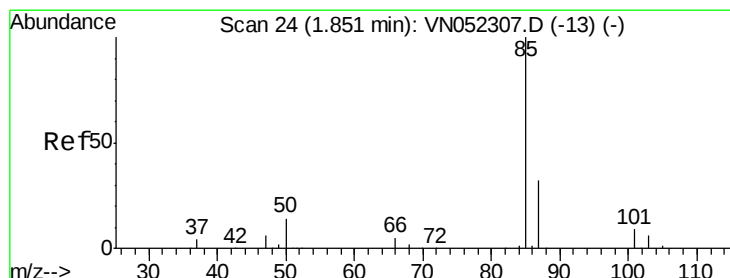
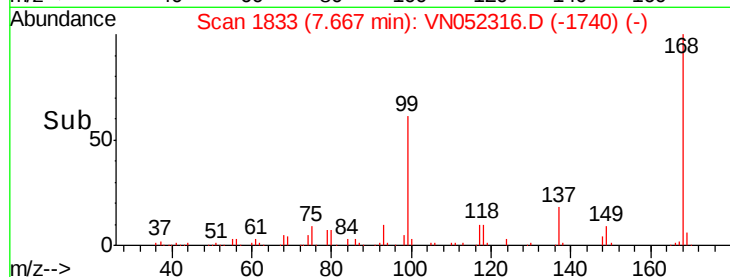
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.427 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052316.D

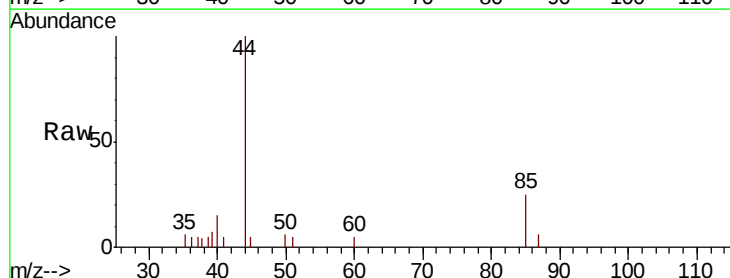
Acq: 14 Nov 2018 16:42

Tgt Ion: 85 Resp: 1151

Ion Ratio Lower Upper

85 100

87 22.8 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

1000

800

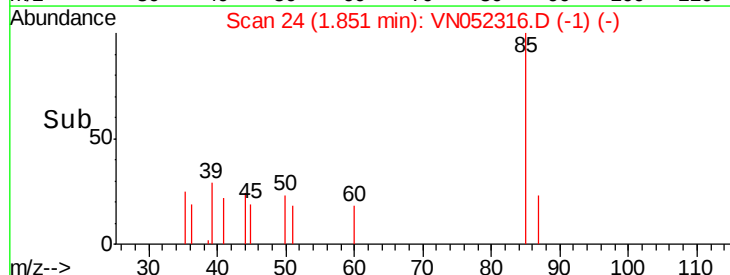
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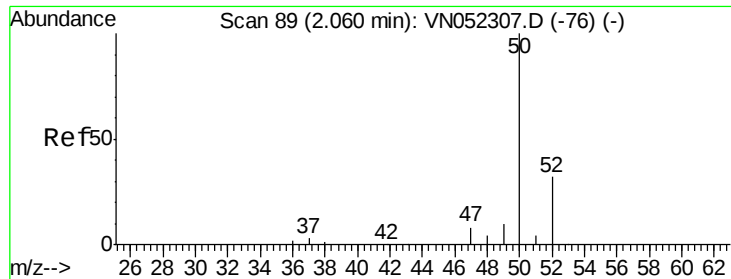
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200

0

Time-->

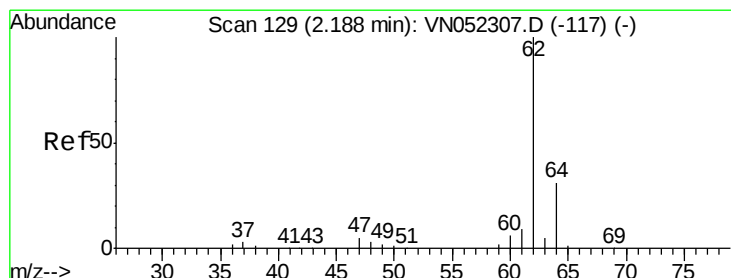
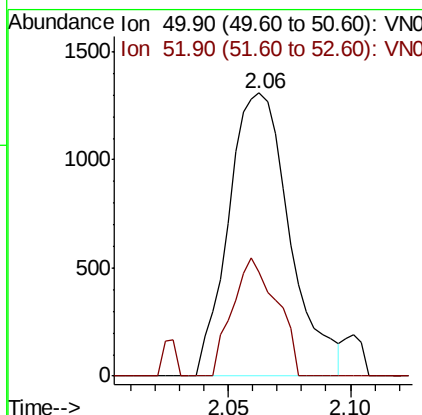
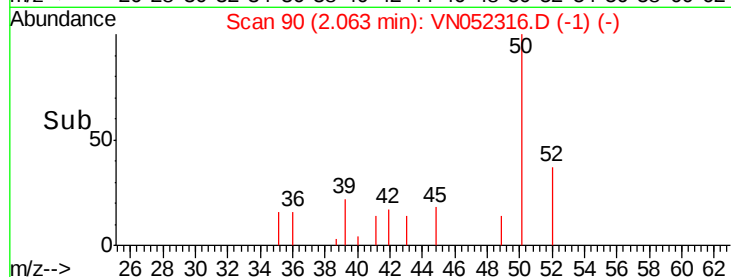
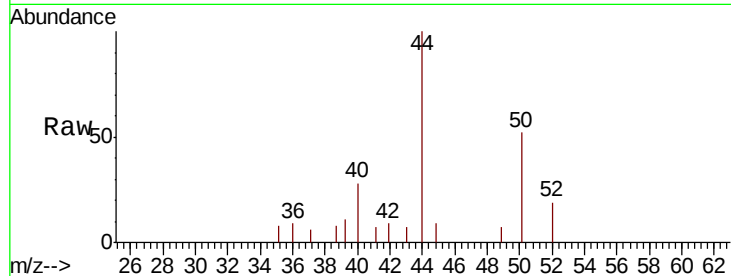




#3
 Chloromethane
 Concen: 0.609 ug/l
 RT: 2.06 min Scan# 90
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

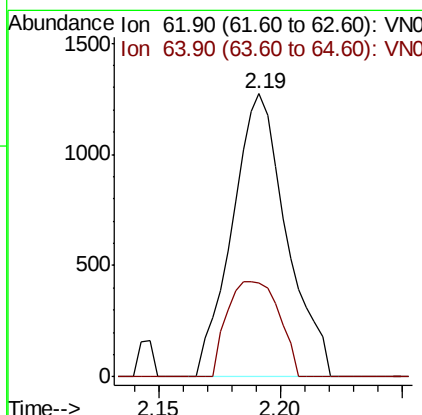
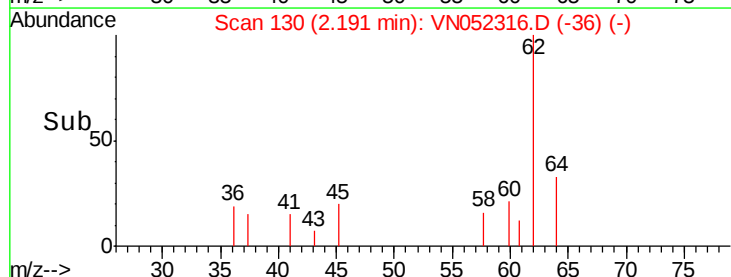
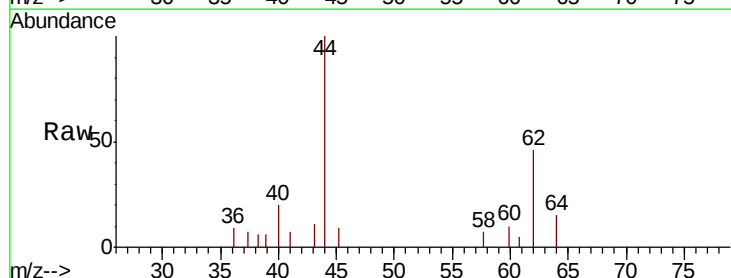
Instrument :
 MSVOA_N
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 MDL-WATER-03-QT4-2018

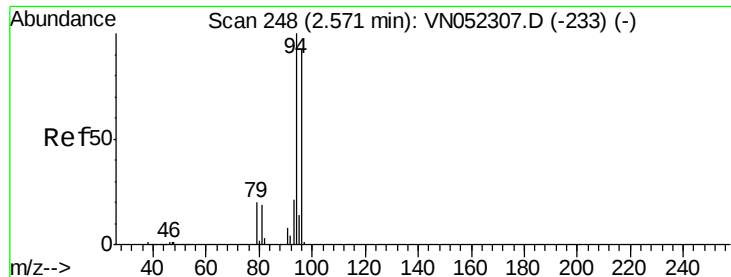
Tot Ion: 50 Resp: 2280
 Ion Ratio Lower Upper
 50 100
 52 37.1 25.5 38.3



#4
 Vinyl Chloride
 Concen: 0.607 ug/l
 RT: 2.19 min Scan# 130
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 62 Resp: 1963
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.2 37.8





#5

Bromomethane

Concen: 0.634 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

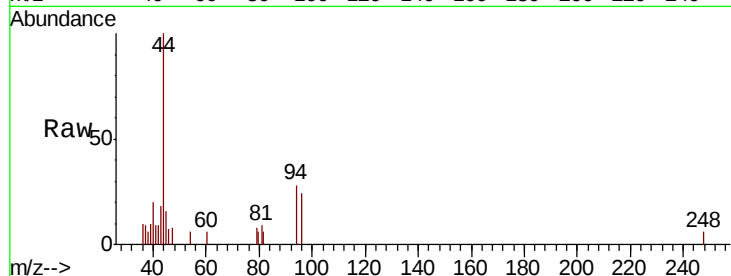
MDL-WATER-03-QT4-2018

Tot Ion: 94 Resp: 1278

Ion Ratio Lower Upper

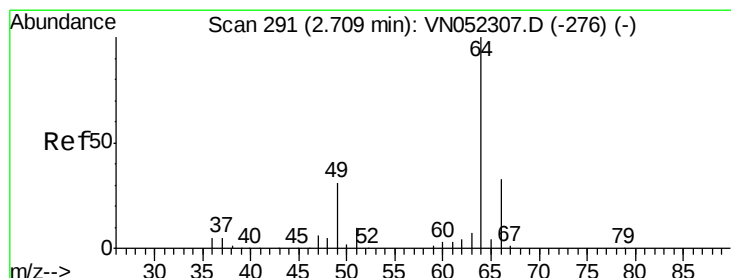
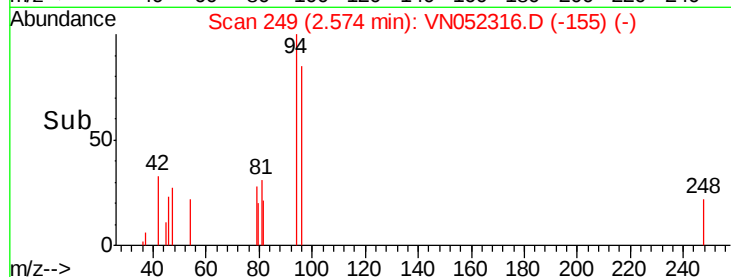
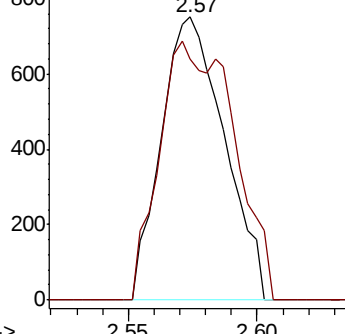
94 100

96 85.1 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.678 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052316.D

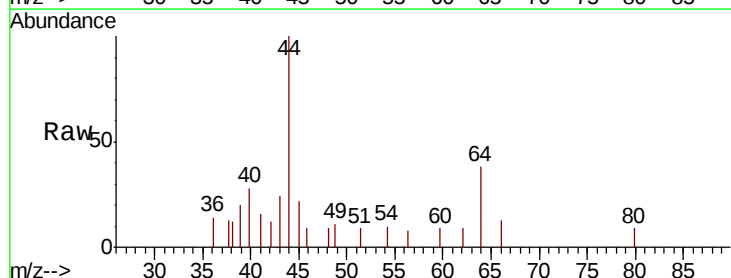
Acq: 14 Nov 2018 16:42

Tgt Ion: 64 Resp: 1241

Ion Ratio Lower Upper

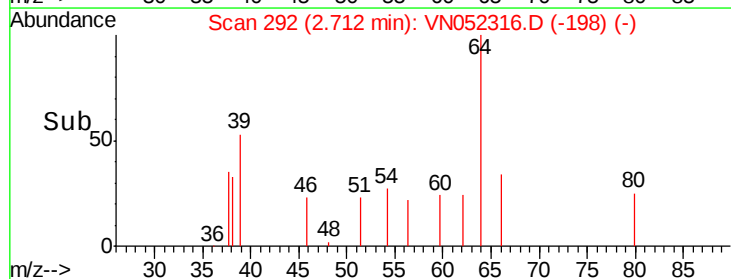
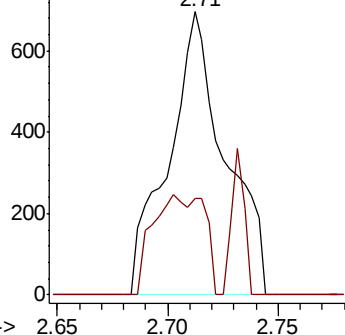
64 100

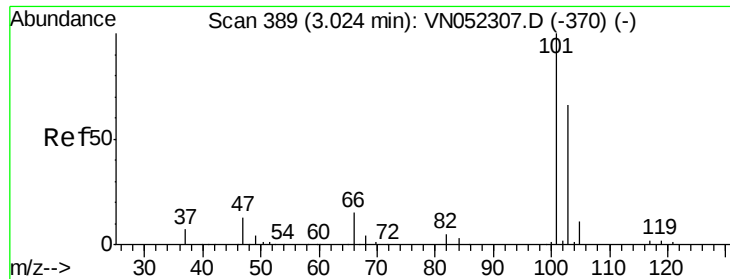
66 34.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 0.534 ug/l

RT: 3.02 min Scan# 389

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

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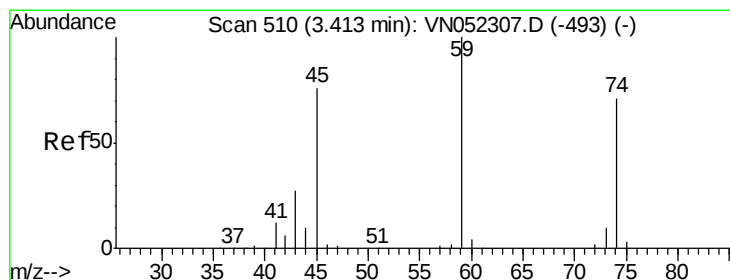
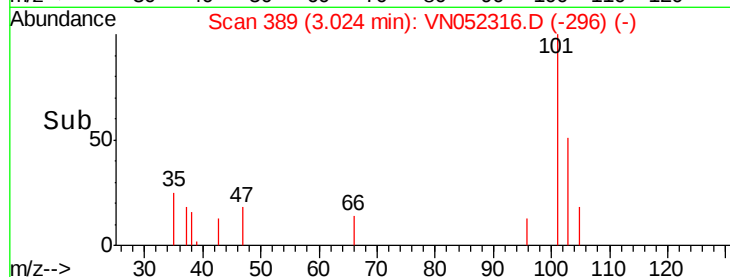
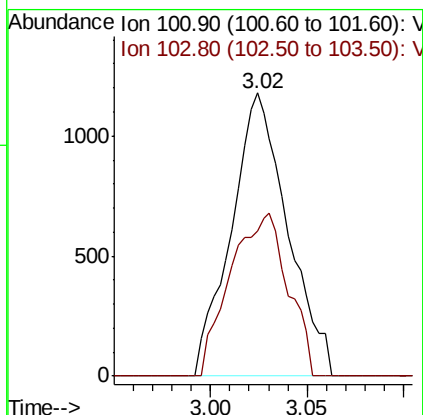
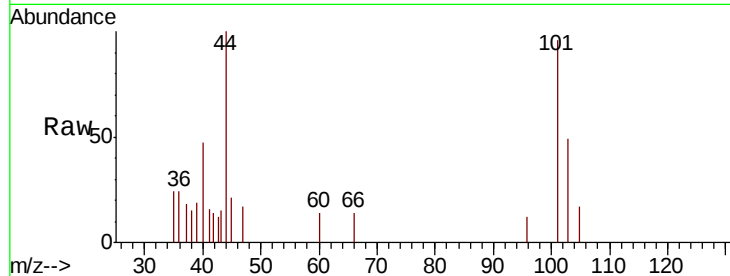
MDL-WATER-03-QT4-2018

Tot Ion:101 Resp: 2392

Ion Ratio Lower Upper

101 100

103 51.2 52.8 79.2#



#8

Diethyl Ether

Concen: 0.276 ug/l

RT: 3.41 min Scan# 508

Delta R.T. -0.01 min

Lab File: VN052316.D

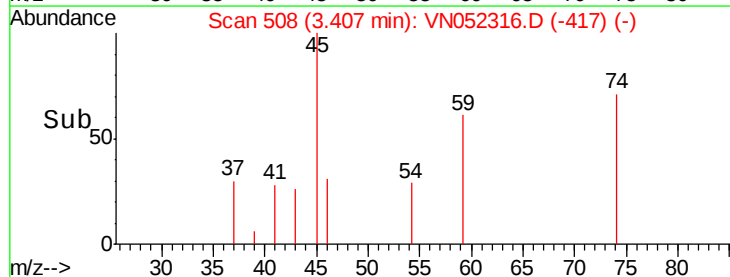
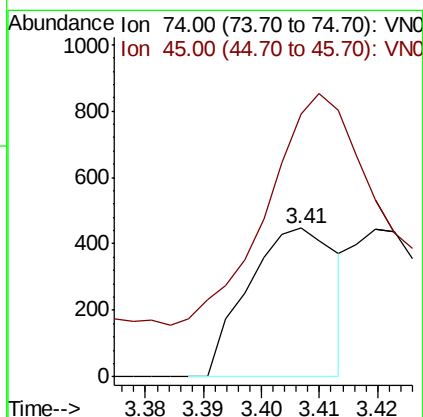
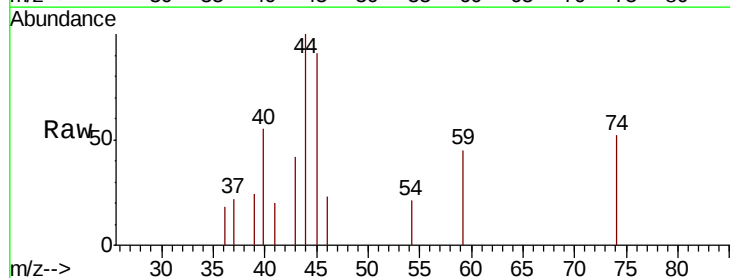
Acq: 14 Nov 2018 16:42

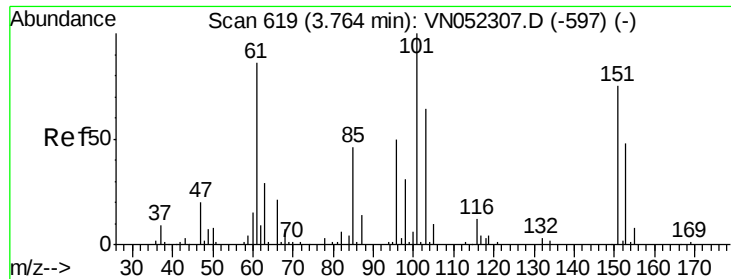
Tgt Ion: 74 Resp: 471

Ion Ratio Lower Upper

74 100

45 323.6 54.3 162.9#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.188 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

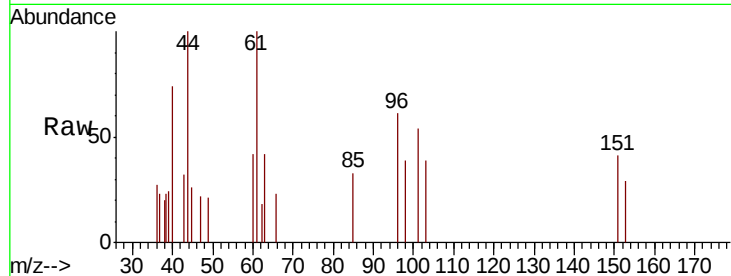
Tot Ion:101 Resp: 532

Ion Ratio Lower Upper

101 100

85 56.4 37.4 56.0#

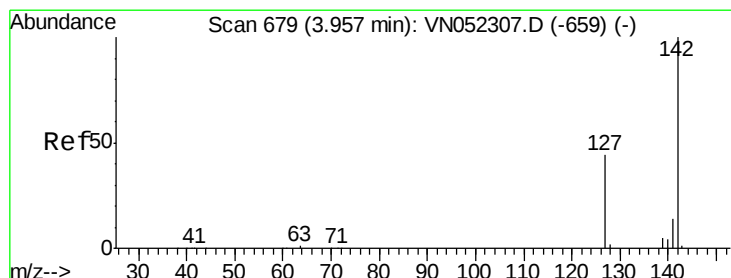
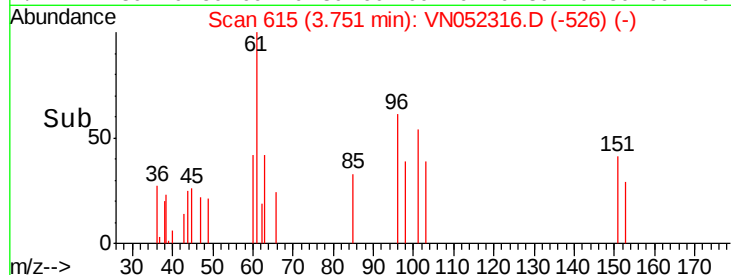
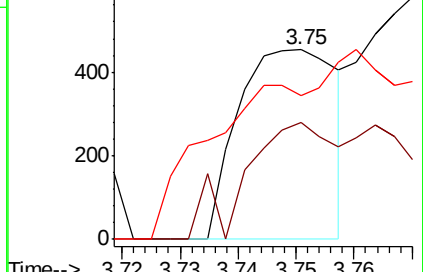
151 239.3 58.6 88.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.416 ug/l

RT: 3.97 min Scan# 682

Delta R.T. 0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

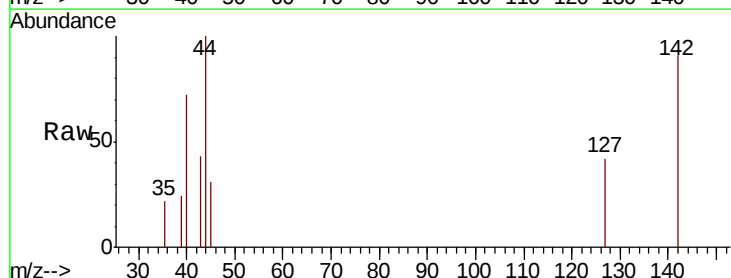
Tgt Ion:142 Resp: 1579

Ion Ratio Lower Upper

142 100

127 46.0 36.3 54.5

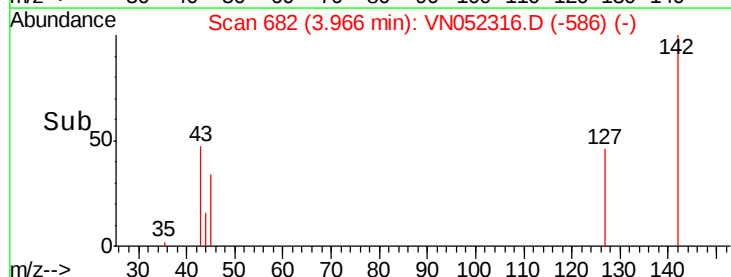
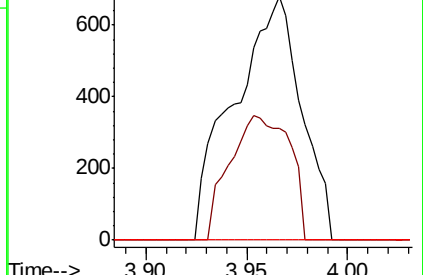
141 0.0 11.4 17.2#

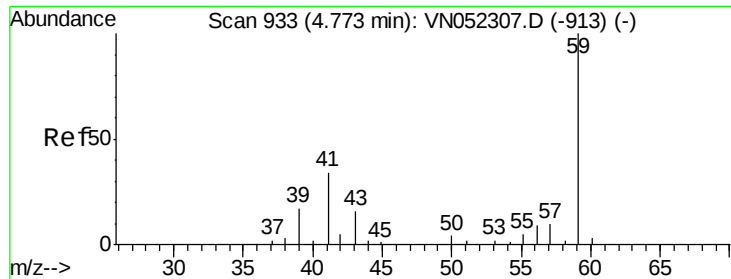


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

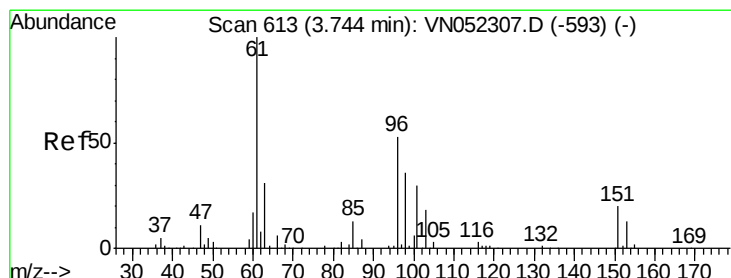
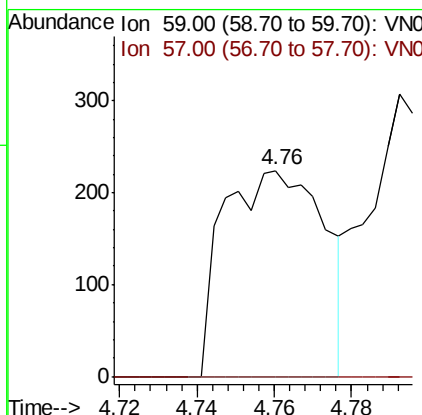
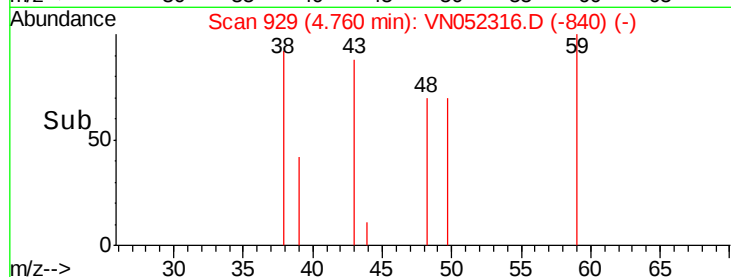
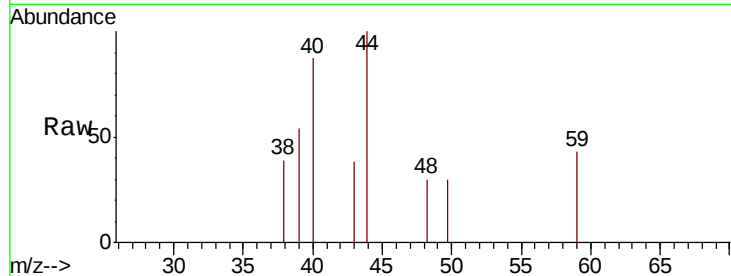




#11
Tert butyl alcohol
Concen: 2.147 ug/l
RT: 4.76 min Scan# 929
Delta R.T. -0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

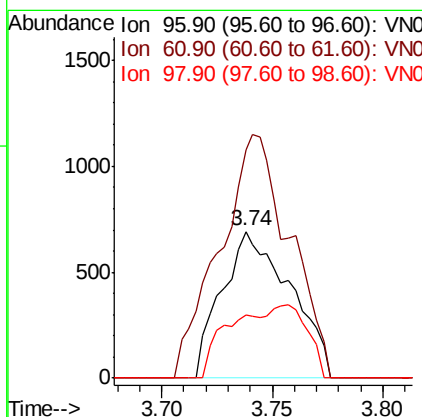
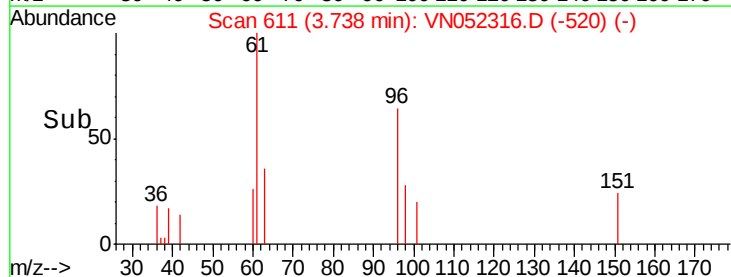
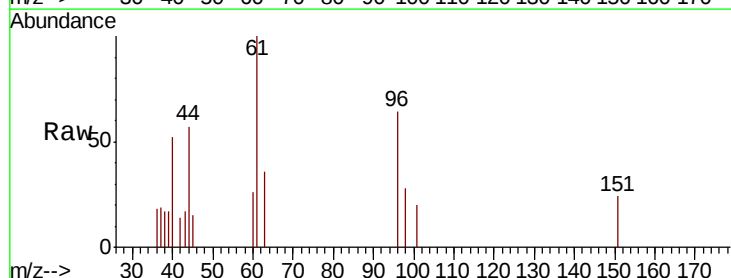
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

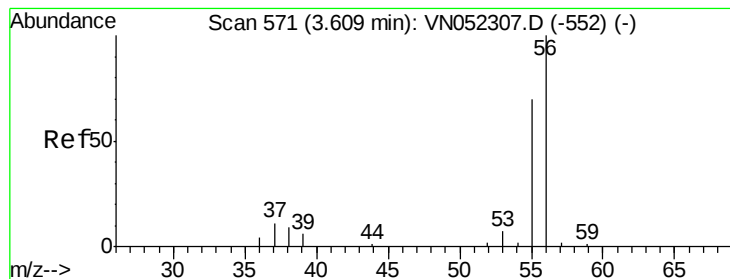
Tot Ion: 59 Resp: 407
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.569 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion: 96 Resp: 1489
Ion Ratio Lower Upper
96 100
61 155.7 149.6 224.4
98 43.0 54.2 81.2#





#13

Acrolein

Concen: 24.599 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

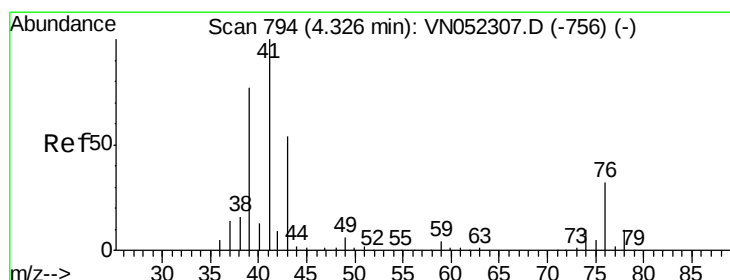
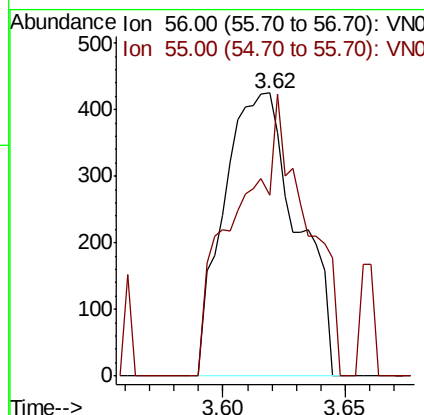
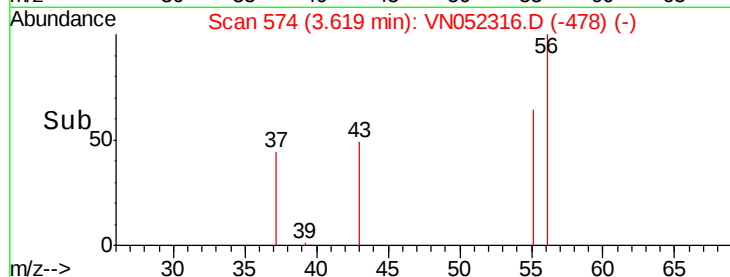
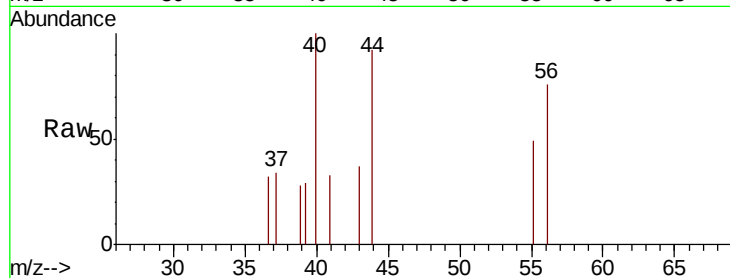
MDL-WATER-03-QT4-2018

Tot Ion: 56 Resp: 886

Ion Ratio Lower Upper

56 100

55 93.1 57.6 86.4#



#14

Allyl chloride

Concen: 0.206 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

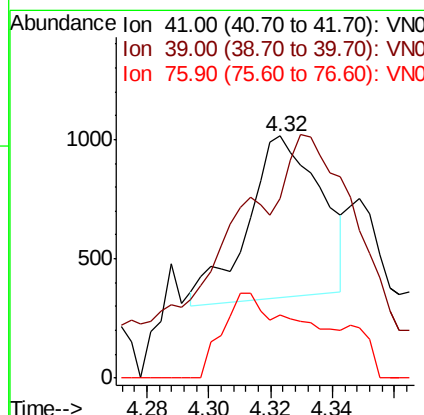
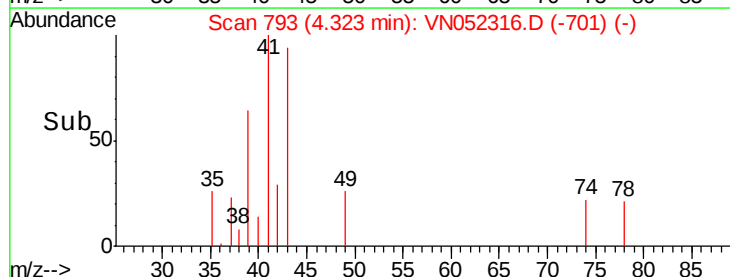
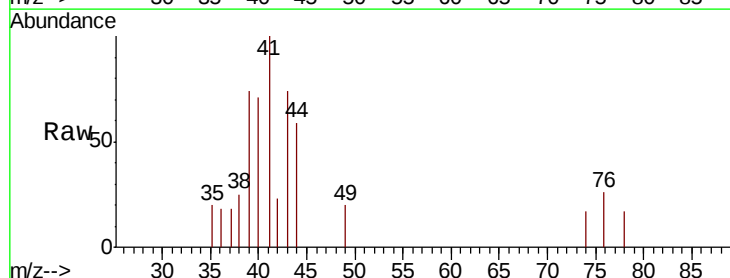
Tgt Ion: 41 Resp: 1108

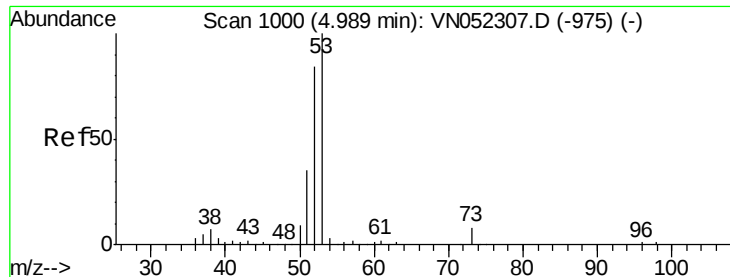
Ion Ratio Lower Upper

41 100

39 117.4 59.1 88.7#

76 0.0 24.1 36.1#

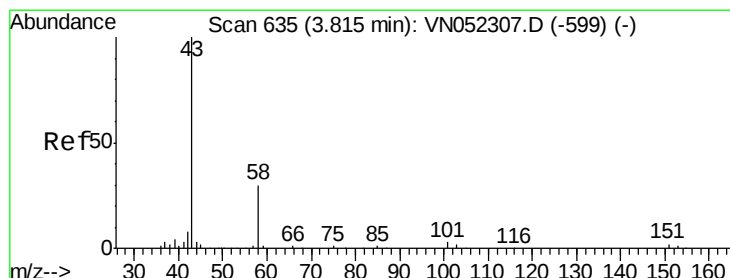
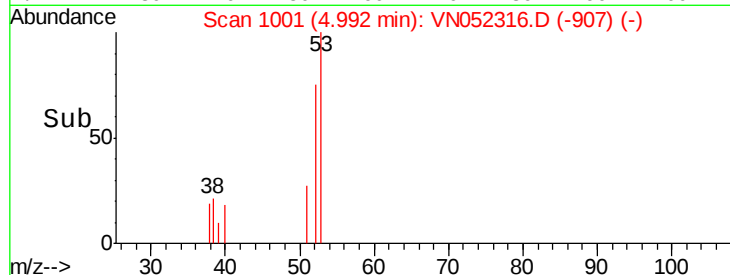
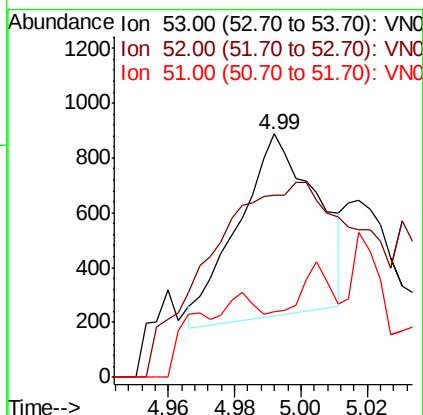
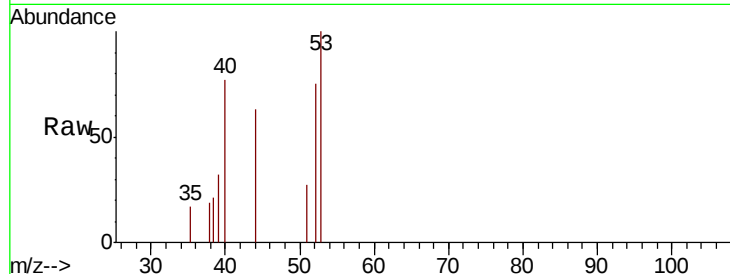




#15
 Acrylonitrile
 Concen: 1.005 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

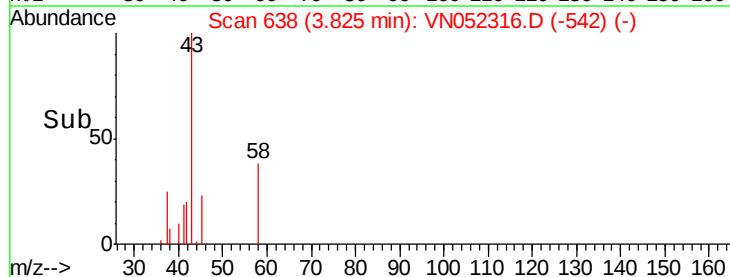
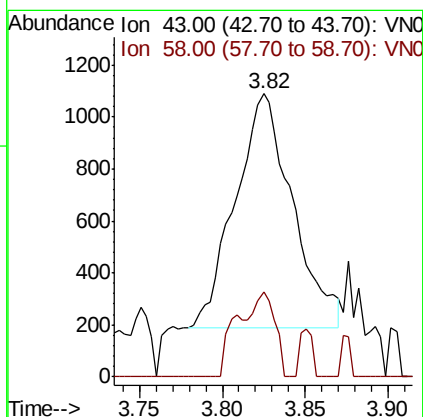
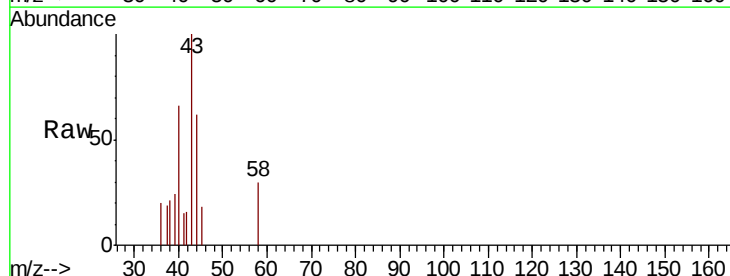
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

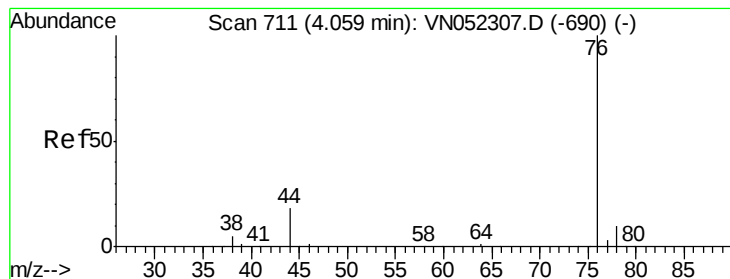
Tot Ion: 53 Resp: 1088
 Ion Ratio Lower Upper
 53 100
 52 210.4 67.5 101.3#
 51 29.3 29.9 44.9#



#16
 Acetone
 Concen: 2.182 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 43 Resp: 2157
 Ion Ratio Lower Upper
 43 100
 58 36.2 24.2 36.4





#17

Carbon Disulfide

Concen: 0.631 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

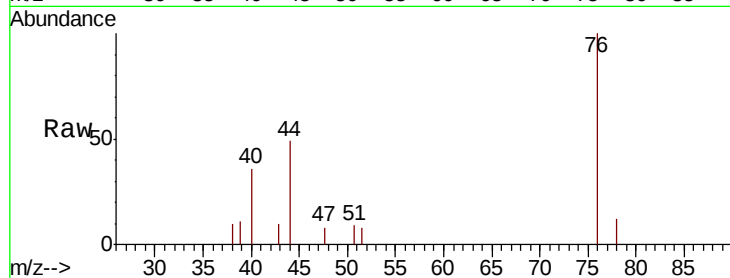
MDL-WATER-03-QT4-2018

Tot Ion: 76 Resp: 4733

Ion Ratio Lower Upper

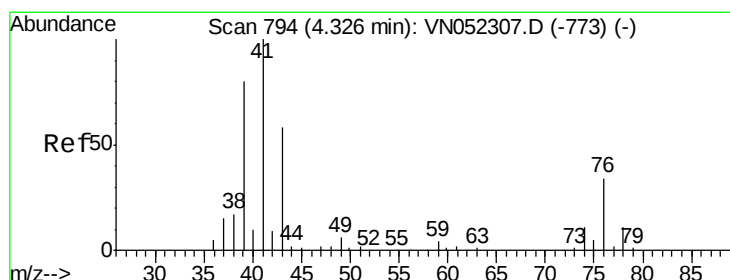
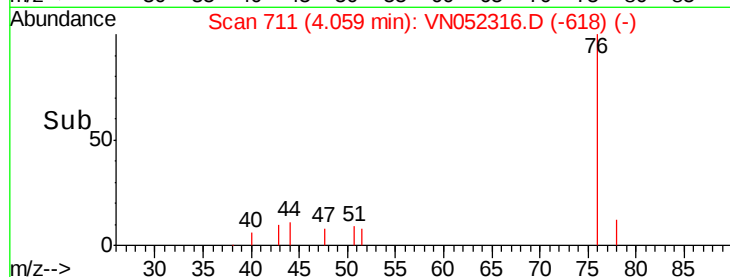
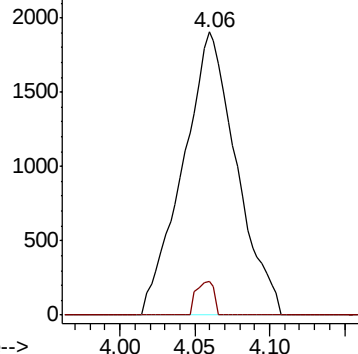
76 100

78 11.9 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.167 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052316.D

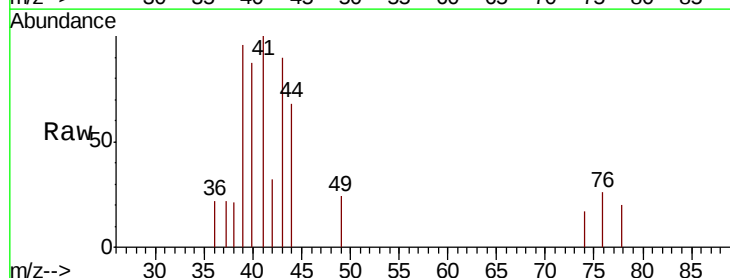
Acq: 14 Nov 2018 16:42

Tgt Ion: 43 Resp: 2055

Ion Ratio Lower Upper

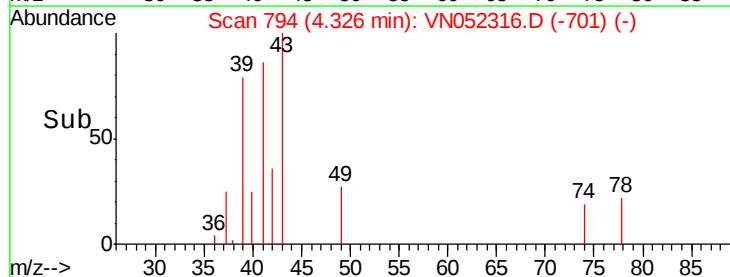
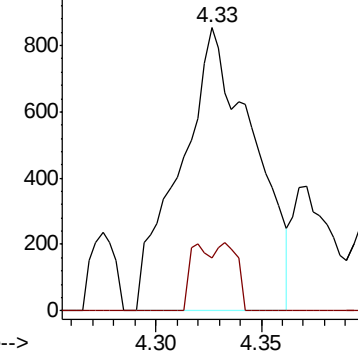
43 100

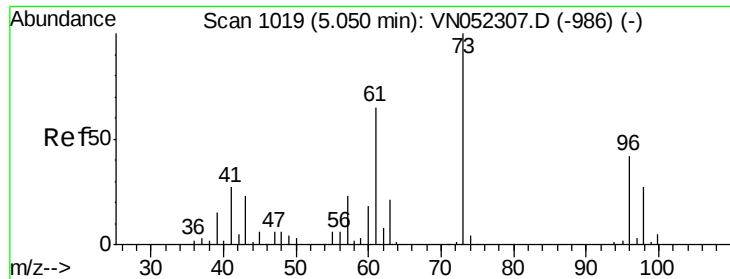
74 6.9 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#19

Methyl tert-butyl Ether

Concen: 0.491 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

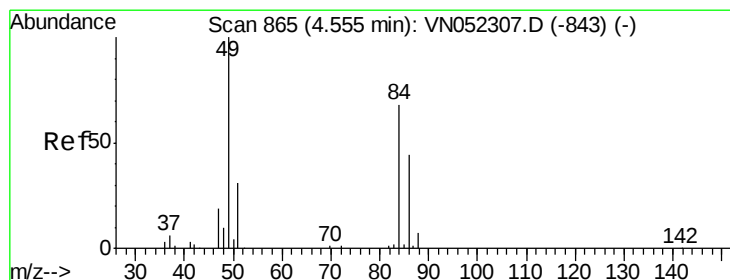
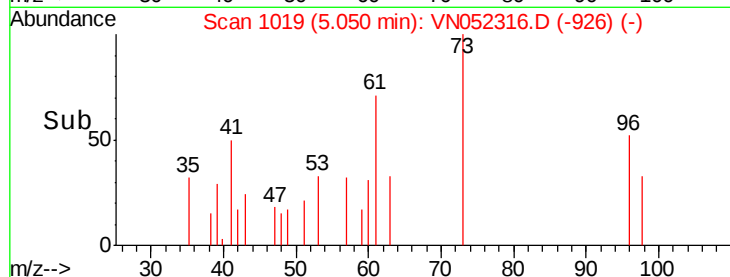
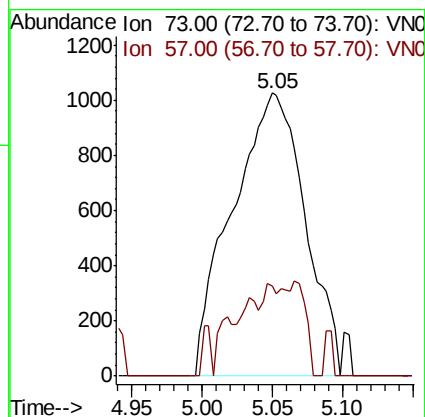
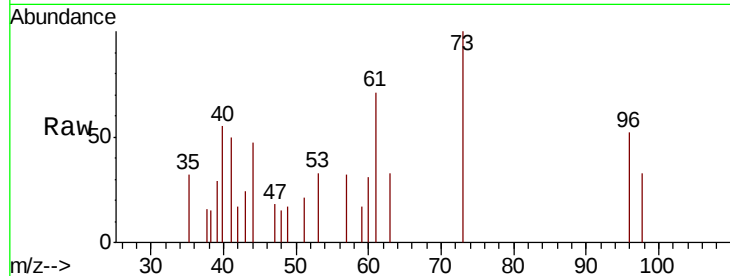
MDL-WATER-03-QT4-2018

Tot Ion: 73 Resp: 3690

Ion Ratio Lower Upper

73 100

57 31.7 18.7 28.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Tgt Ion: 84 Resp: 1638

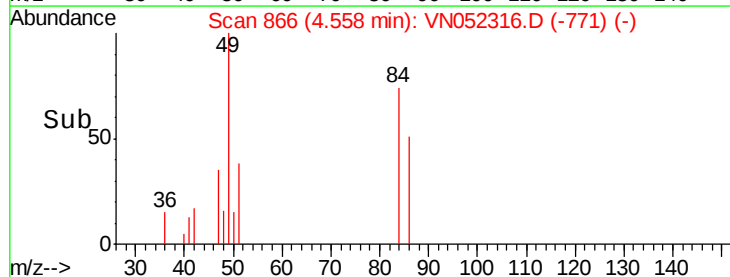
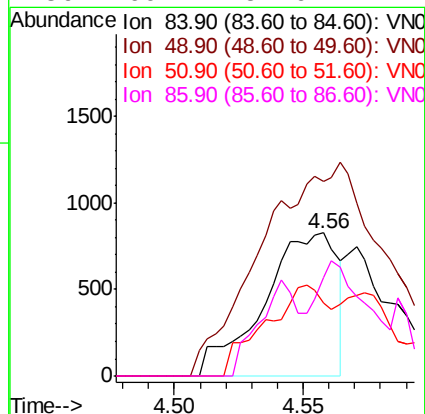
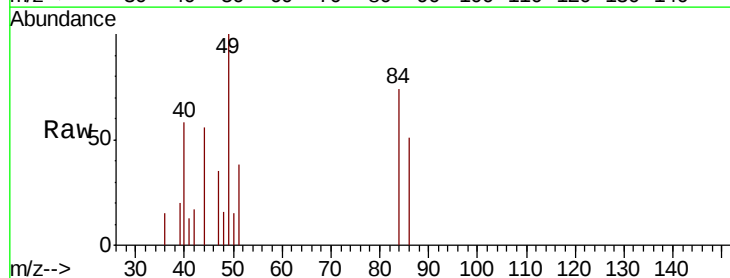
Ion Ratio Lower Upper

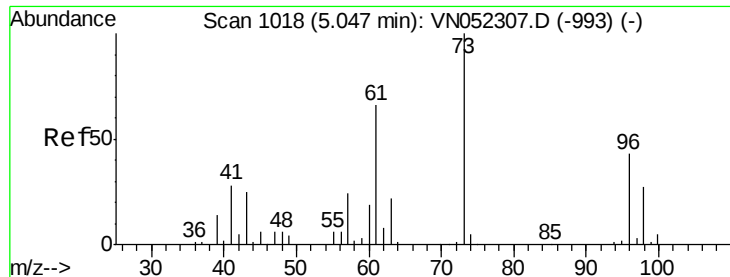
84 100

49 136.0 118.2 177.2

51 51.5 36.1 54.1

86 69.1 51.6 77.4

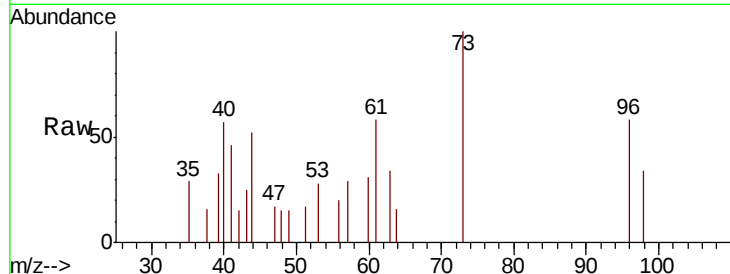




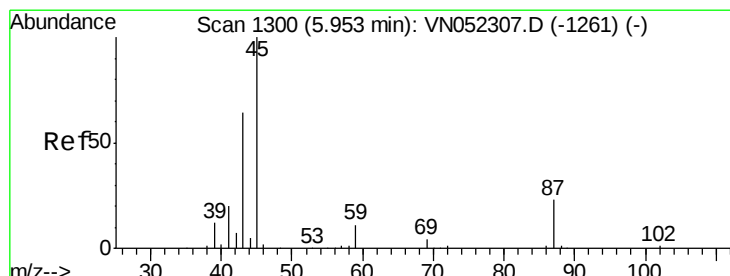
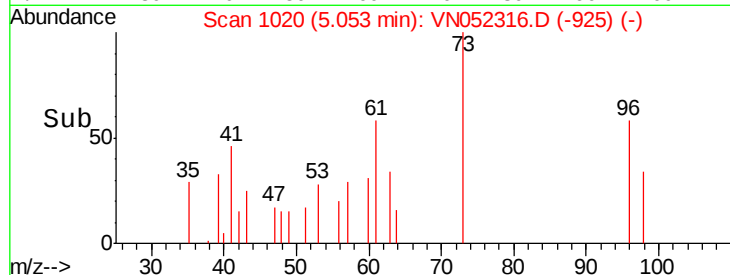
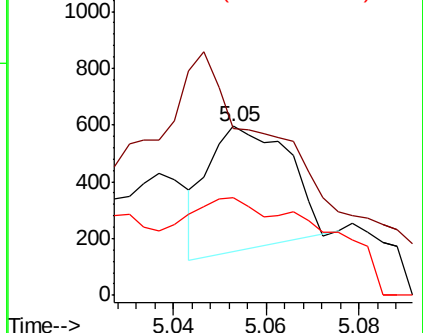
#21
trans-1,2-Dichloroethene
Concen: 0.186 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

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

Tot Ion: 96 Resp: 523
Ion Ratio Lower Upper
96 100
61 79.8 123.6 185.4#
98 33.2 50.7 76.1#

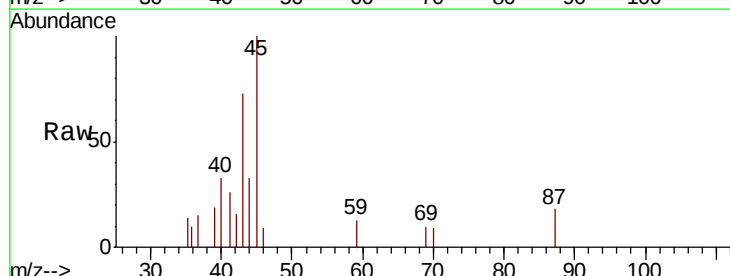


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

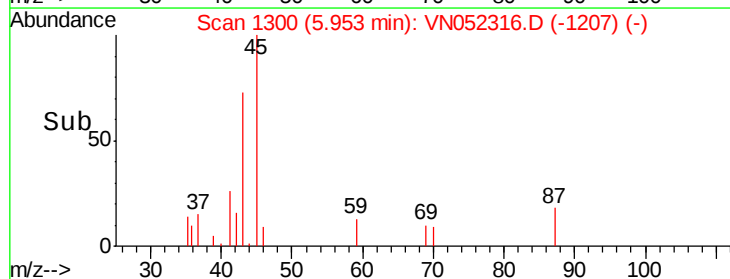
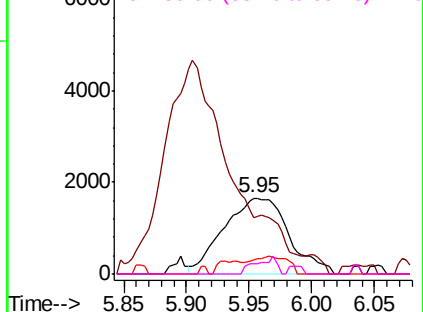


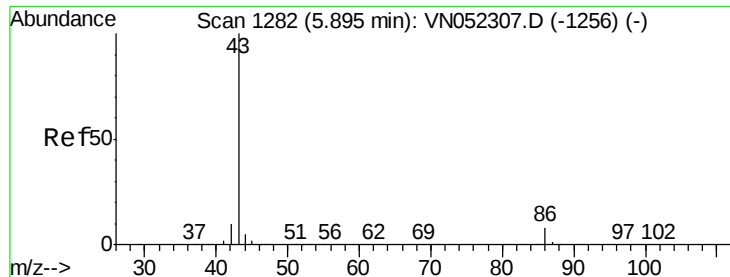
#22
Diisopropyl ether
Concen: 0.547 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion: 45 Resp: 5994
Ion Ratio Lower Upper
45 100
43 73.5 51.4 77.2
87 18.2 18.8 28.2#
59 12.8 8.6 12.8



Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 2.118 ug/l

RT: 5.91 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

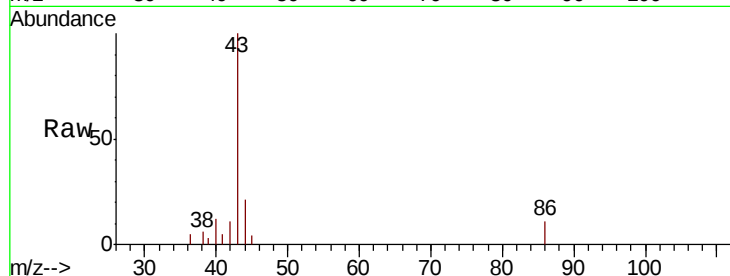
MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 15750

Ion Ratio Lower Upper

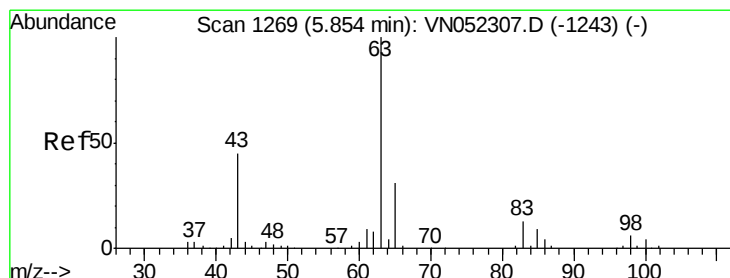
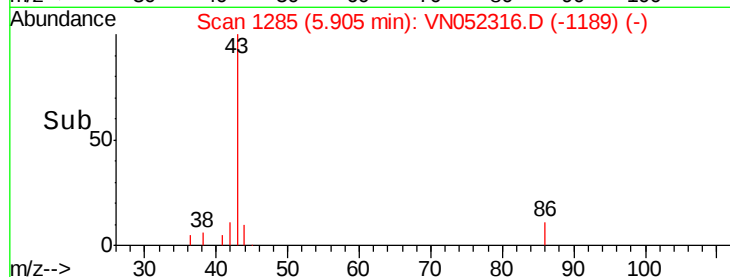
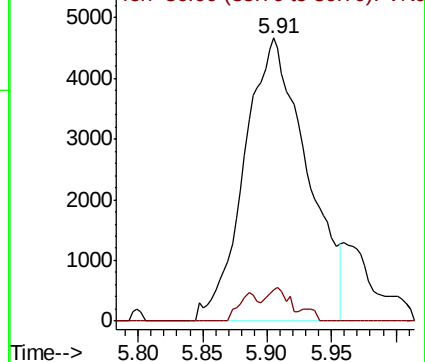
43 100

86 11.2 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 0.403 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

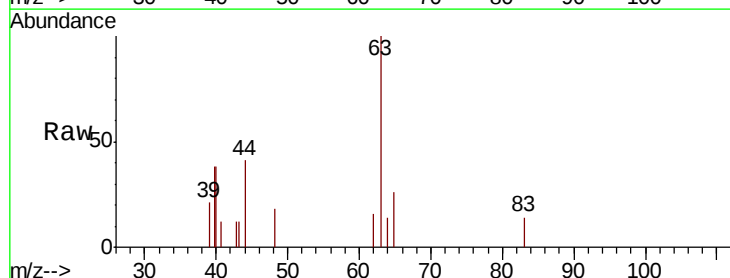
Tgt Ion: 63 Resp: 2368

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

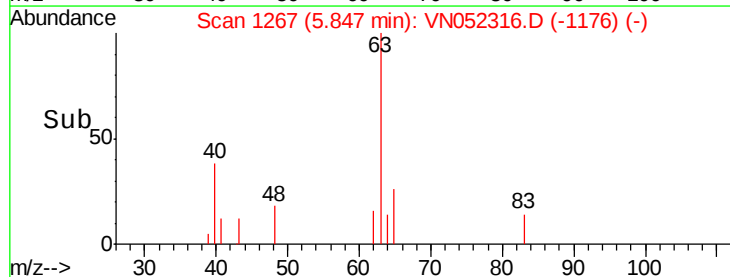
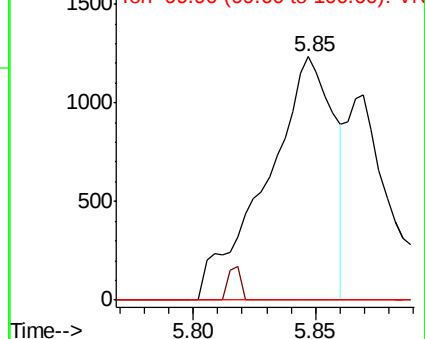
100 0.0 1.9 5.7#

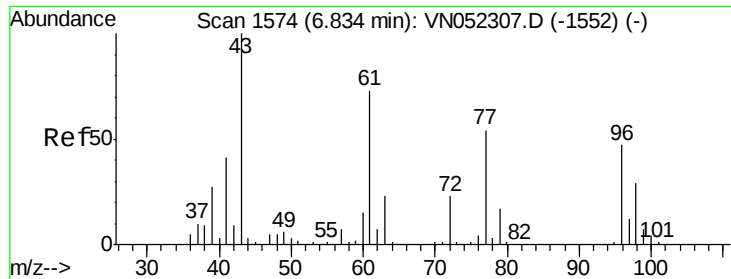


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

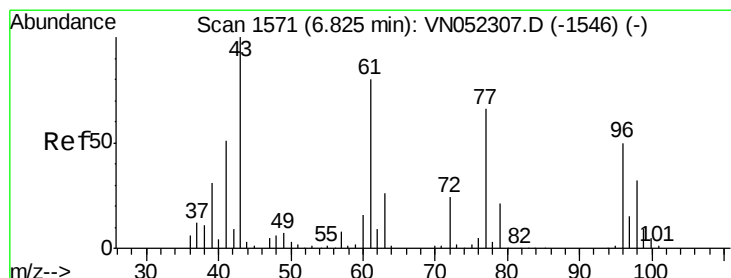
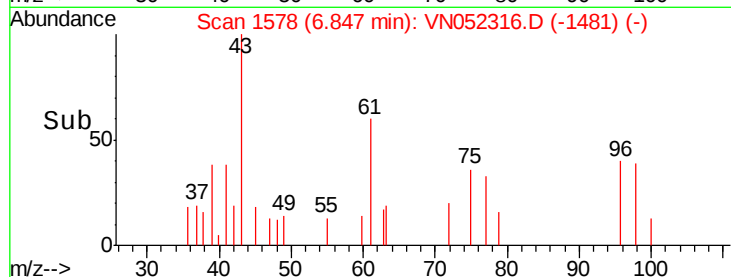
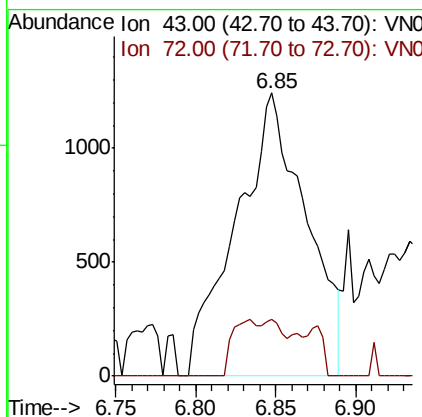
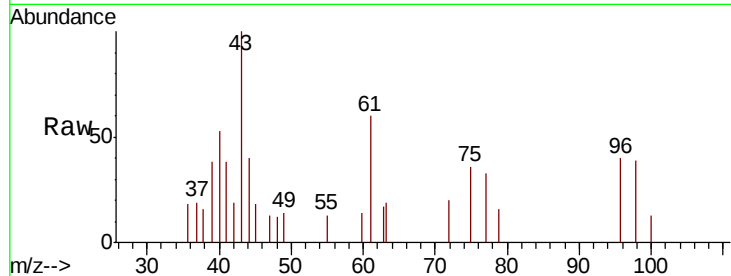




#25
2-Butanone
Concen: 2.695 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

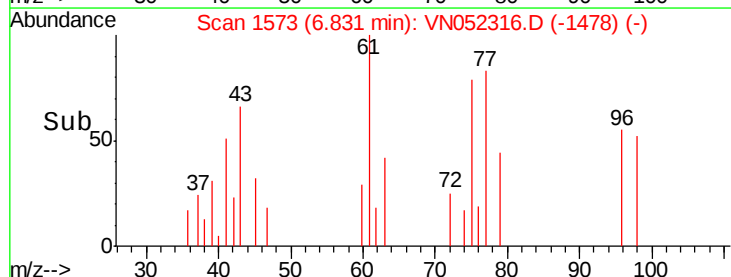
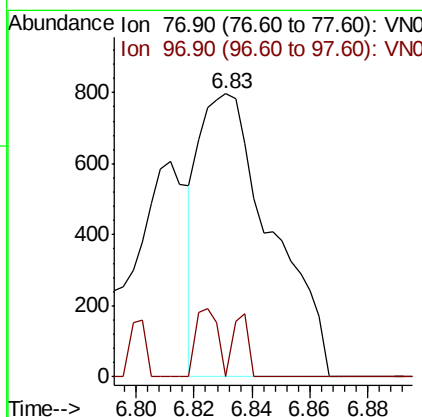
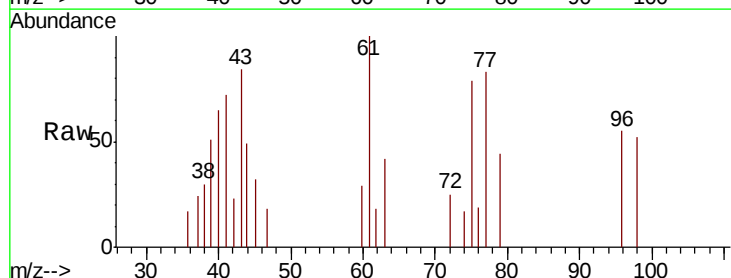
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

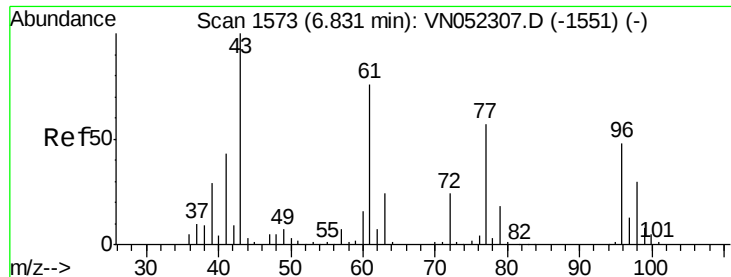
Tot Ion: 43 Resp: 3750
Ion Ratio Lower Upper
43 100
72 20.1 18.6 27.8



#26
2,2-Dichloropropane
Concen: 0.320 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion: 77 Resp: 1382
Ion Ratio Lower Upper
77 100
97 4.7 11.1 33.1#





#27

cis-1,2-Dichloroethene

Concen: 0.562 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

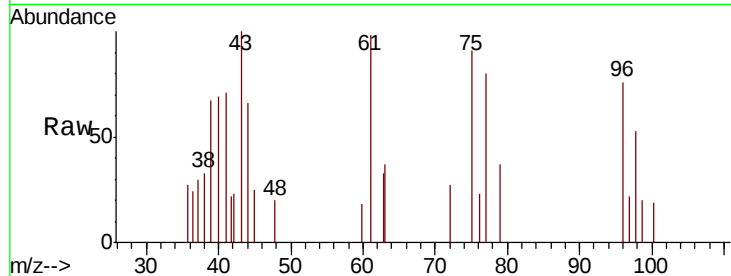
Tot Ion: 96 Resp: 1842

Ion Ratio Lower Upper

96 100

61 0.0 0.0 316.8

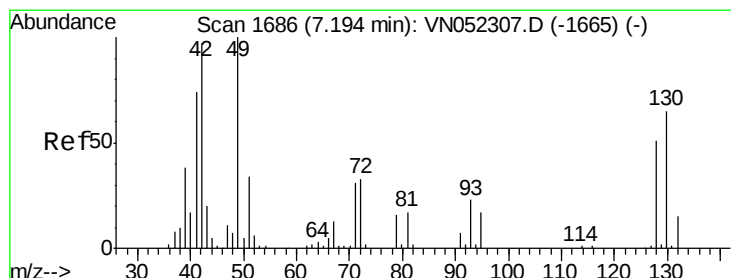
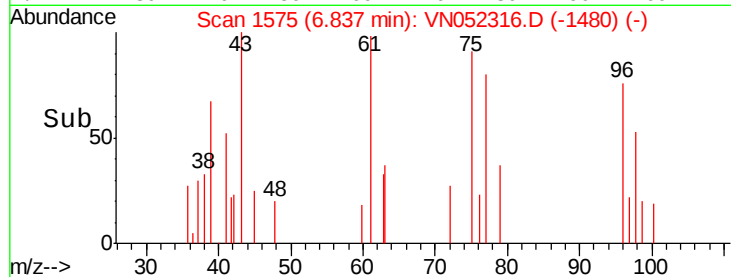
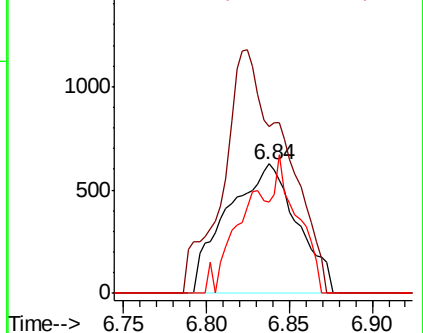
98 37.1 0.0 126.6



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: 0.126 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

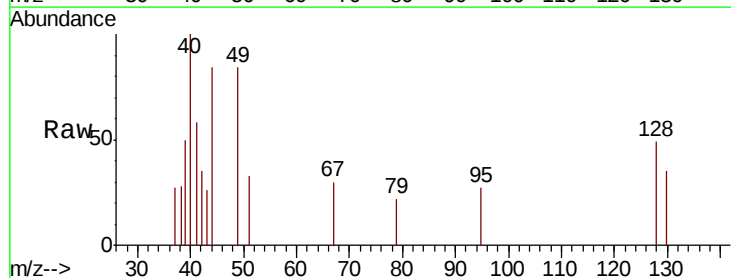
Tgt Ion: 49 Resp: 380

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.0

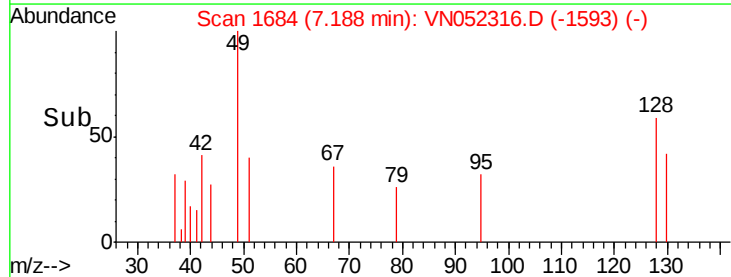
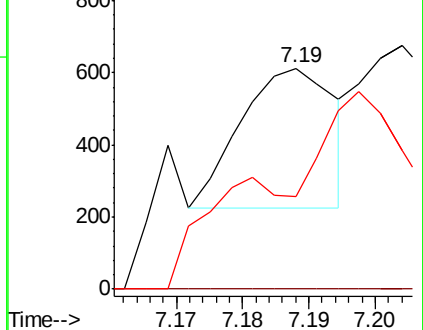
130 76.1 50.4 75.6#

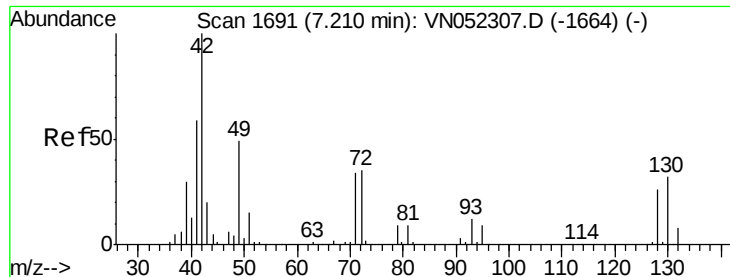


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 3.190 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

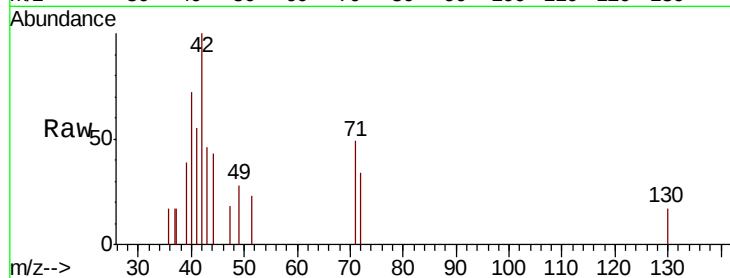
Tot Ion: 42 Resp: 2916

Ion Ratio Lower Upper

42 100

72 6.0 28.6 42.8#

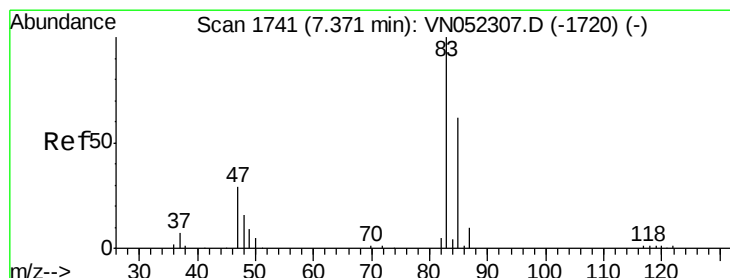
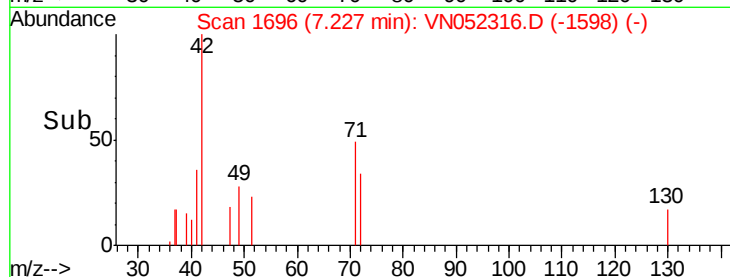
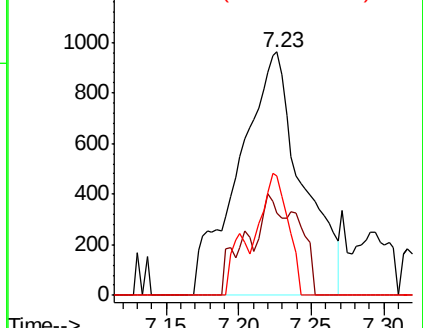
71 21.9 26.7 40.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 2.203 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN052316.D

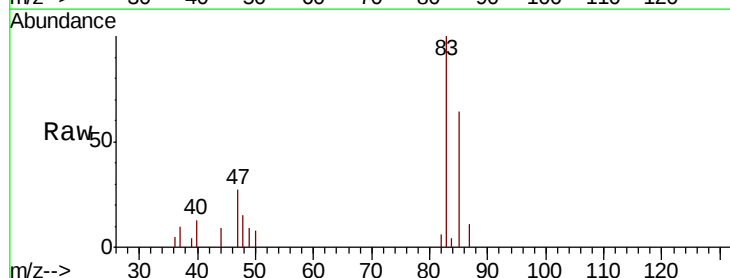
Acq: 14 Nov 2018 16:42

Tgt Ion: 83 Resp: 12344

Ion Ratio Lower Upper

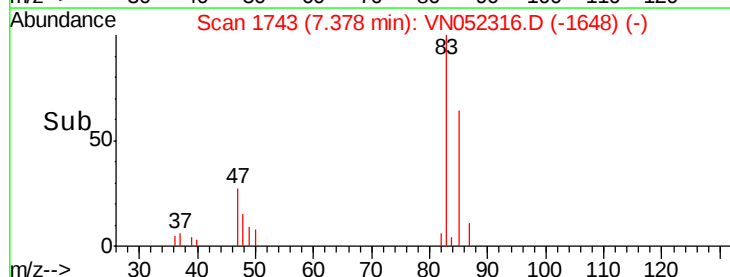
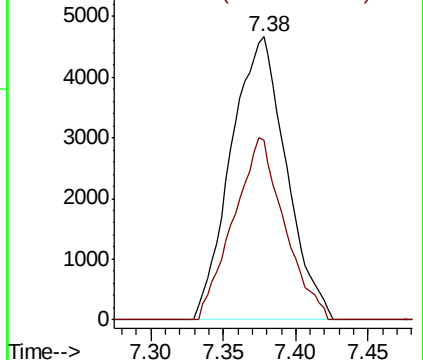
83 100

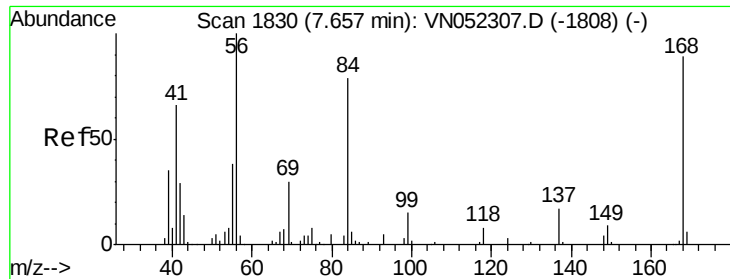
85 63.7 49.4 74.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

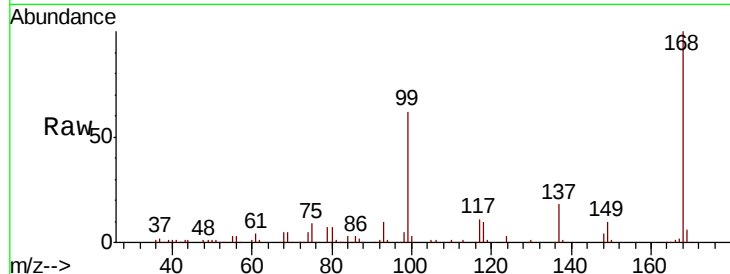




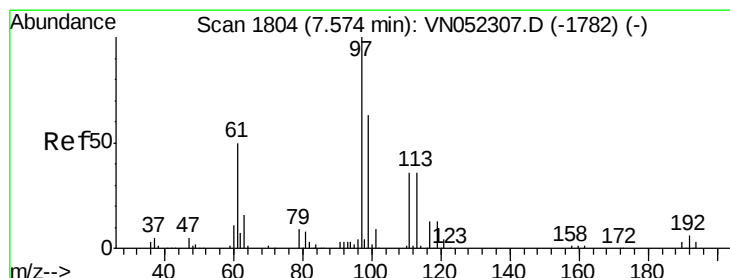
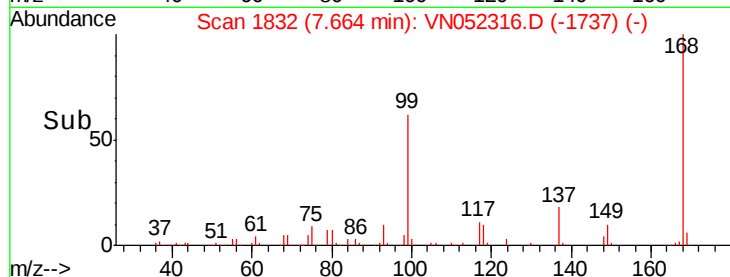
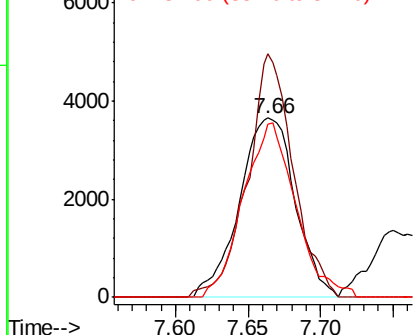
#31
Cyclohexane
Concen: 0.751 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

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

Tot Ion: 56 Resp: 9802
Ion Ratio Lower Upper
56 100
69 135.6 23.8 35.8#
84 96.3 63.0 94.6#

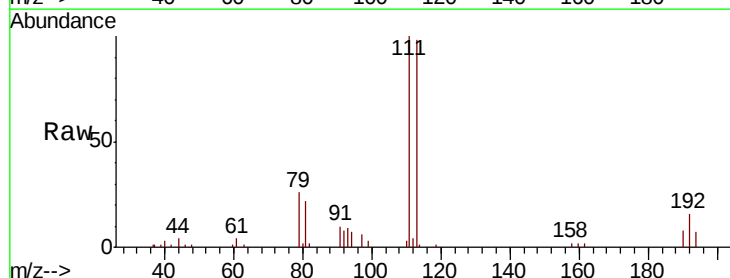


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

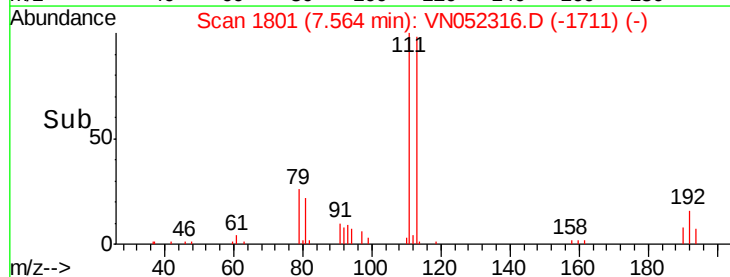
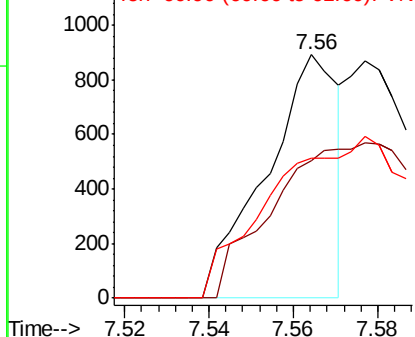


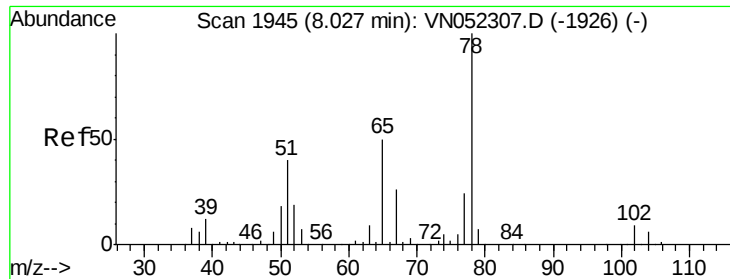
#32
1,1,1-Trichloroethane
Concen: 0.222 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion: 97 Resp: 1059
Ion Ratio Lower Upper
97 100
99 0.0 50.2 75.2#
61 144.1 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

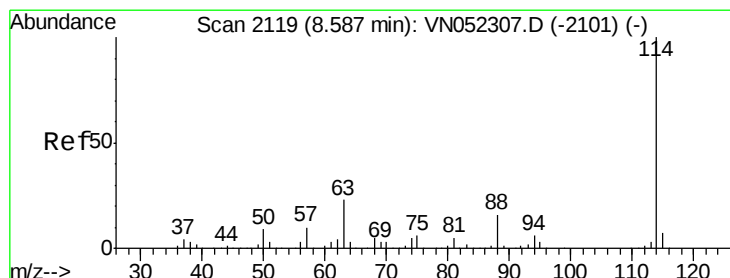
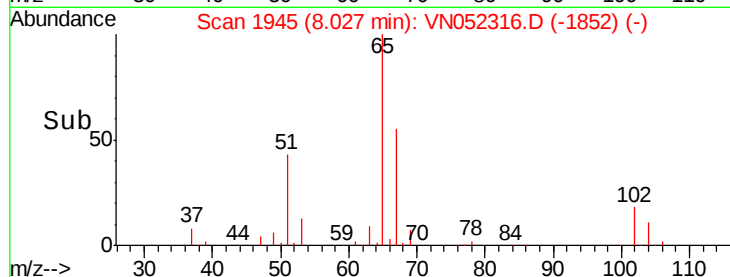
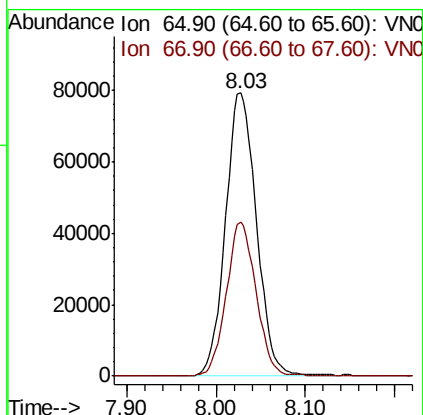
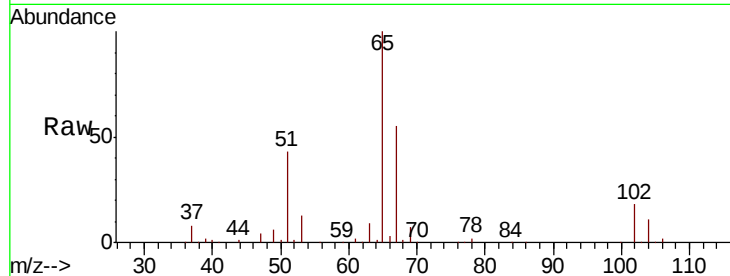




#33
 1,2-Dichloroethane-d4
 Concen: 0.222 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

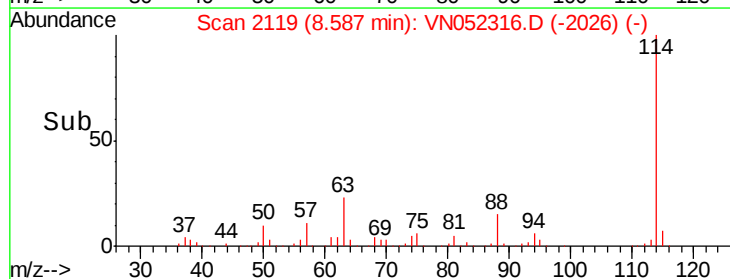
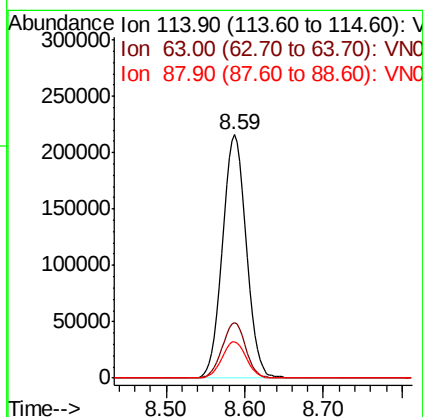
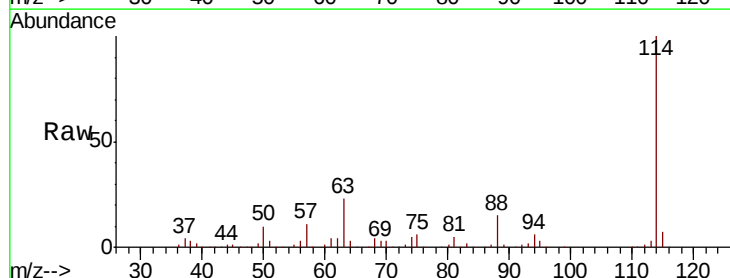
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

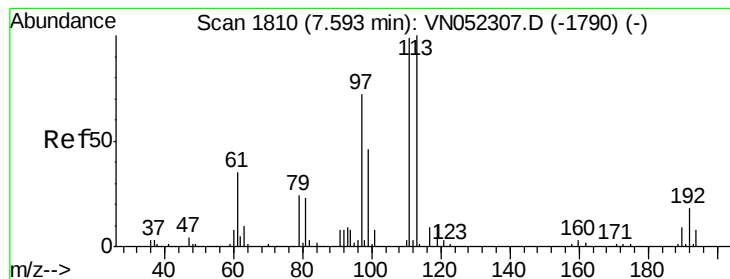
Tot Ion: 65 Resp: 190875
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 114 Resp: 450017
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.4
 88 15.0 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

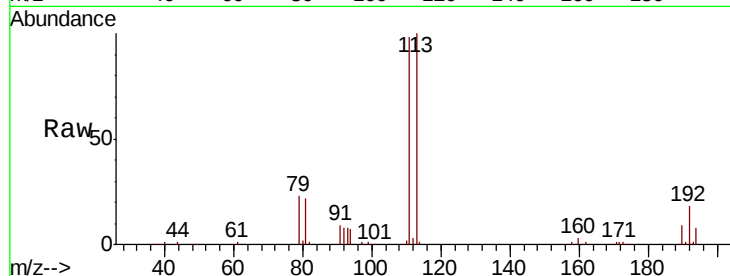
Tot Ion: 113 Resp: 145373

Ion Ratio Lower Upper

113 100

111 101.1 81.0 121.6

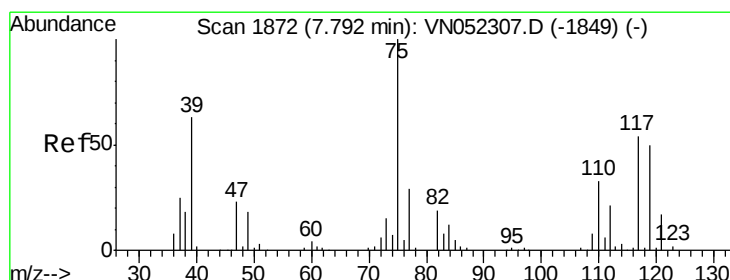
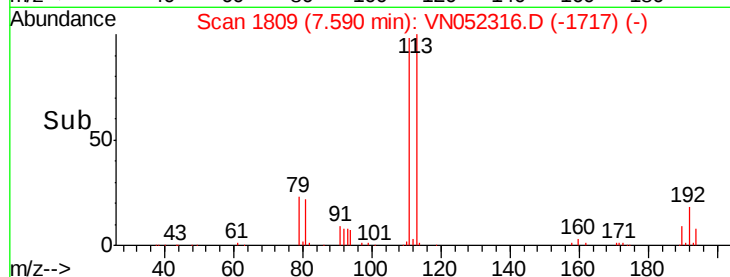
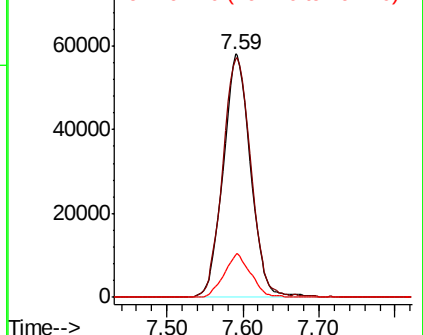
192 17.3 13.8 20.6



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: 0.571 ug/l

RT: 7.79 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

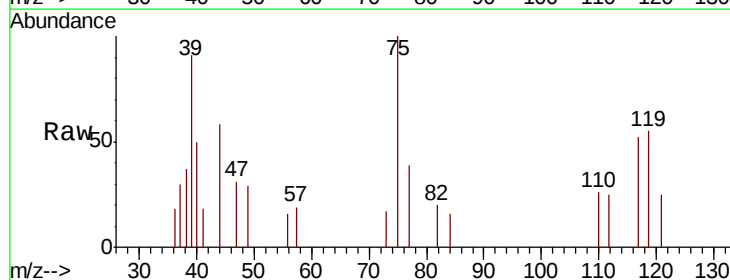
Tgt Ion: 75 Resp: 2577

Ion Ratio Lower Upper

75 100

110 12.3 16.5 49.5#

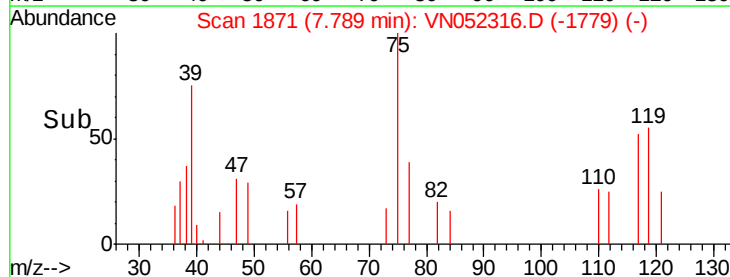
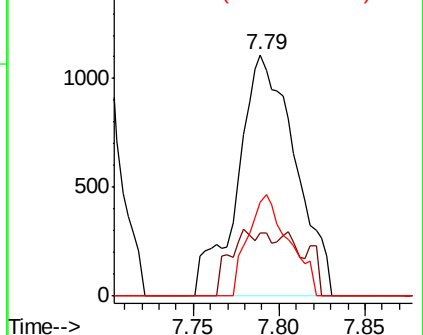
77 29.8 24.2 36.2

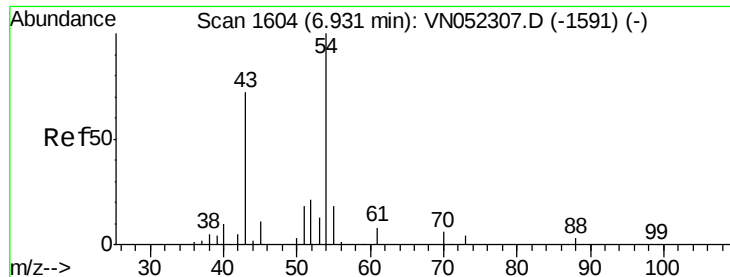


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 0.087 ug/l

RT: 6.94 min Scan# 1608

Delta R.T. 0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

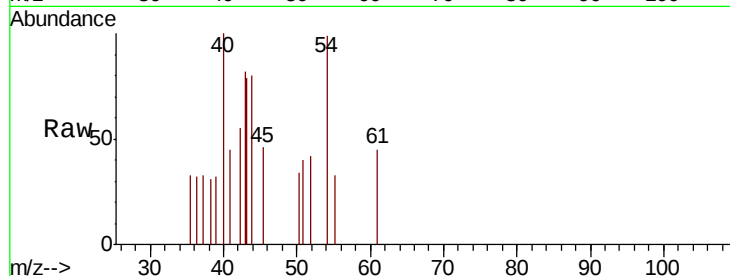
Tot Ion: 43 Resp: 285

Ion Ratio Lower Upper

43 100

61 51.2 10.3 15.5#

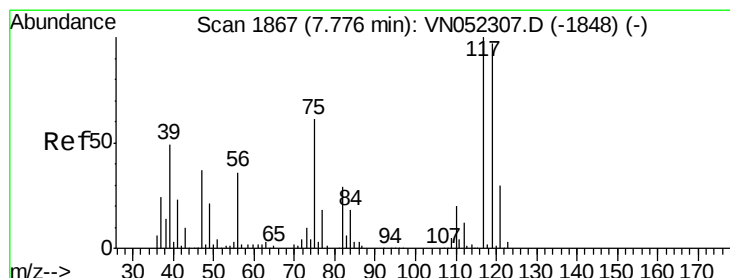
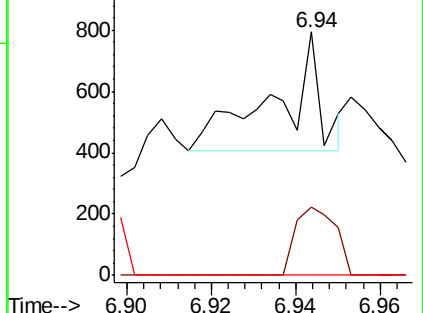
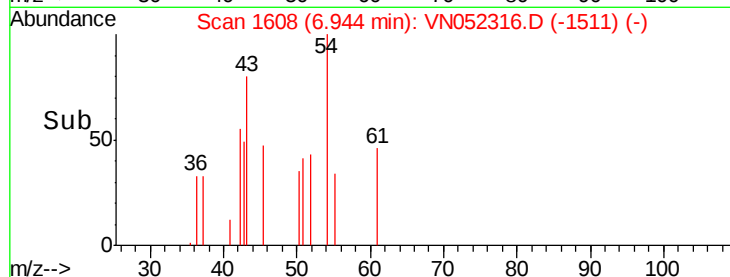
70 0.0 5.6 8.4#



Abundance Ion 43.00 (42.70 to 43.70): VN052316.D (-1511) (-)

Ion 60.90 (60.60 to 61.60): VN052316.D (-1511) (-)

Ion 70.00 (69.70 to 70.70): VN052316.D (-1511) (-)



#38

Carbon Tetrachloride

Concen: 0.477 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

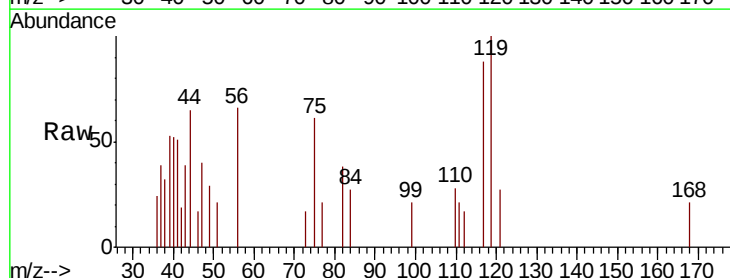
Tgt Ion: 117 Resp: 1977

Ion Ratio Lower Upper

117 100

119 114.2 77.4 116.0

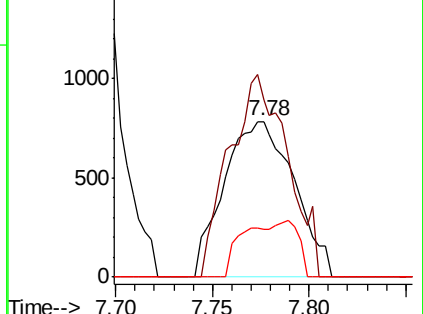
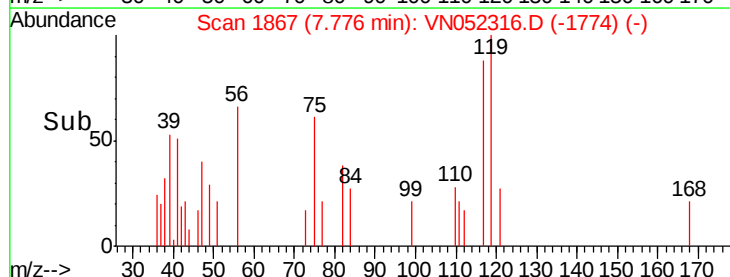
121 31.2 24.0 36.0

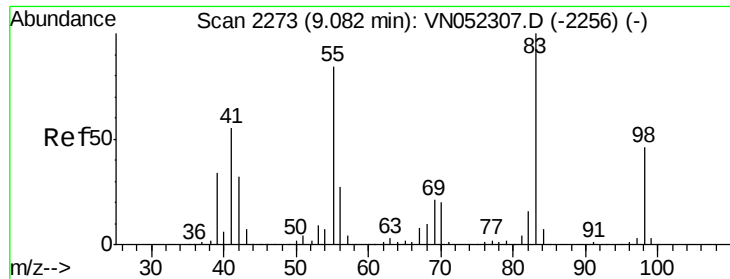


Abundance Ion 116.80 (116.50 to 117.50): VN052316.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052316.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052316.D (-1774) (-)

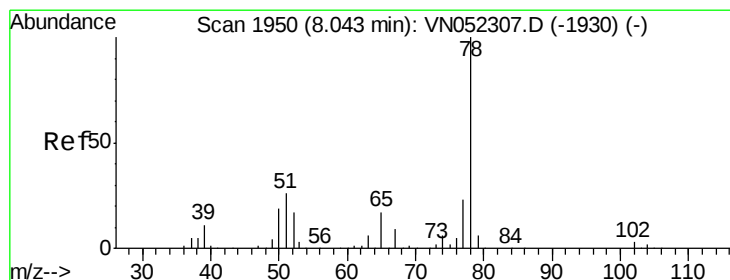
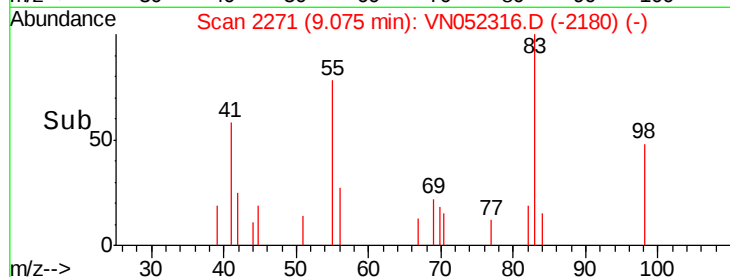
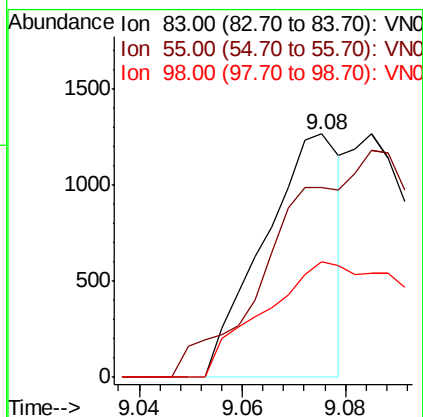
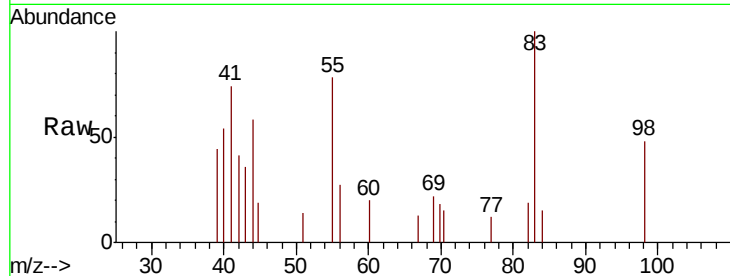




#39
Methvlcvclohexane
Concen: 0.253 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. -0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

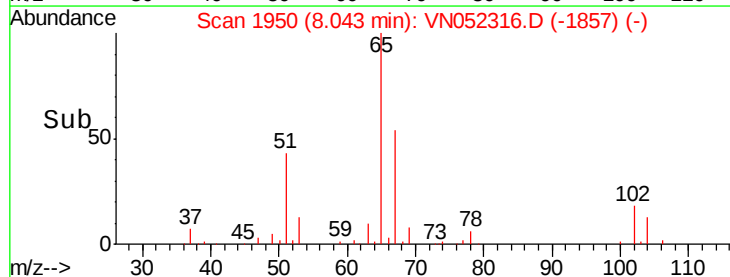
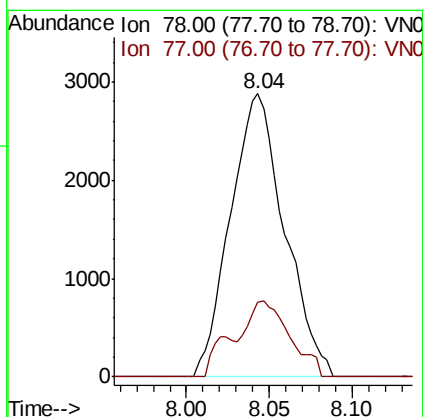
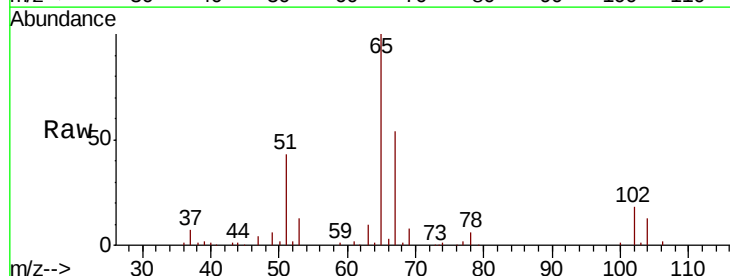
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

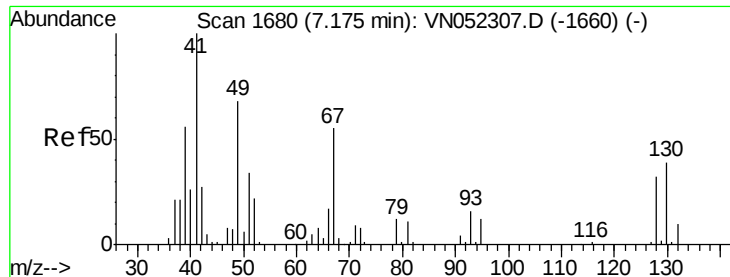
Tot Ion: 83 Resp: 1301
Ion Ratio Lower Upper
83 100
55 65.5 66.8 100.2#
98 47.6 36.4 54.6



#40
Benzene
Concen: 0.506 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion: 78 Resp: 6526
Ion Ratio Lower Upper
78 100
77 26.4 18.7 28.1



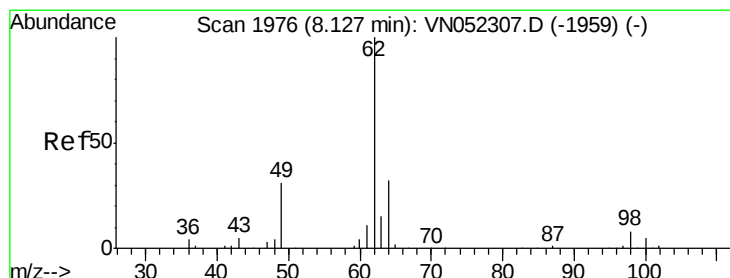
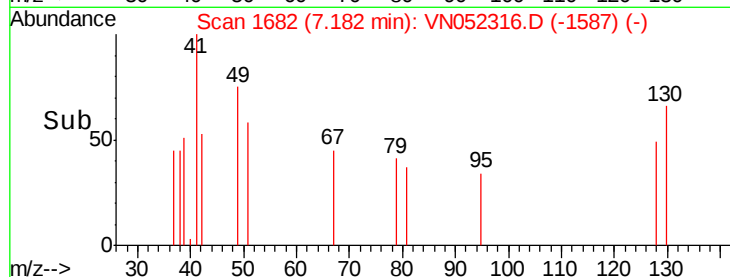
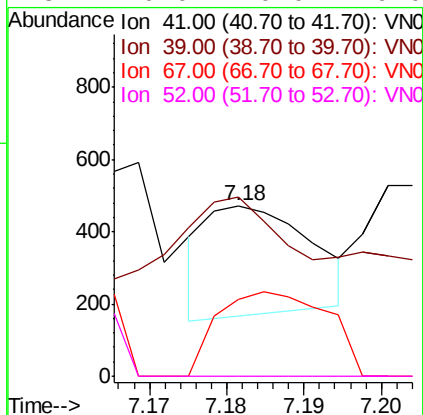
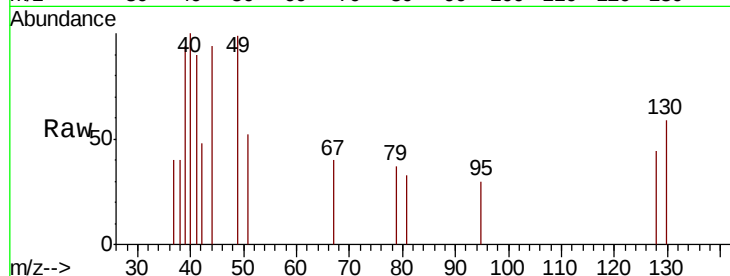


#41
Methacrylonitrile
Concen: 3.839 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

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

Tot Ion: 41 Resp: 281

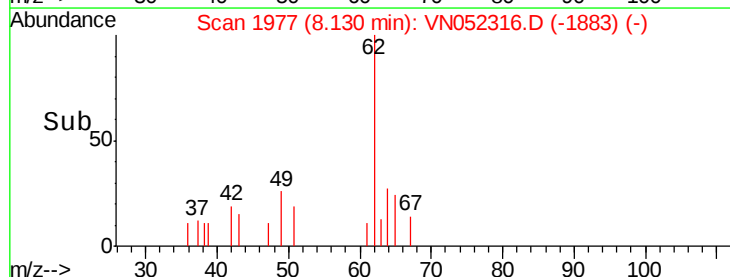
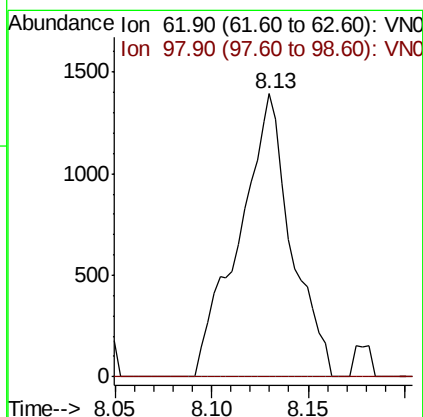
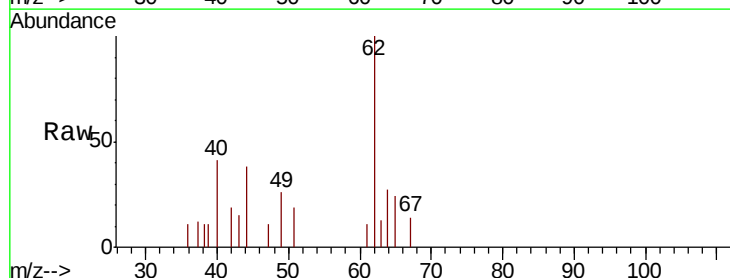
Ion	Ratio	Lower	Upper
41	100		
39	92.2	0.0	0.0#
67	81.9	0.0	0.0#
52	0.0	0.0	0.0

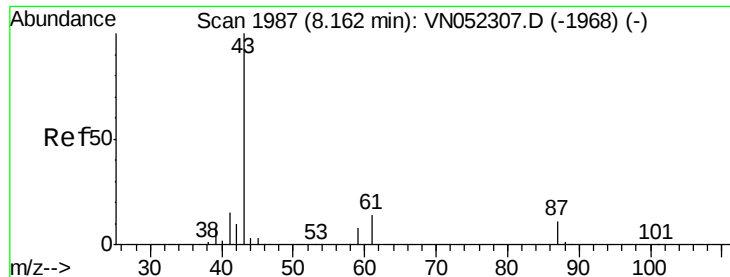


#42
1,2-Dichloroethane
Concen: 0.569 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion: 62 Resp: 2614

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	15.6





#43

Isopropyl Acetate

Concen: 0.324 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

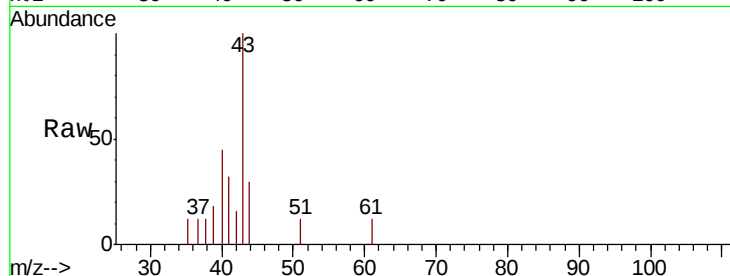
Tot Ion: 43 Resp: 2049

Ion Ratio Lower Upper

43 100

61 25.1 12.0 18.0#

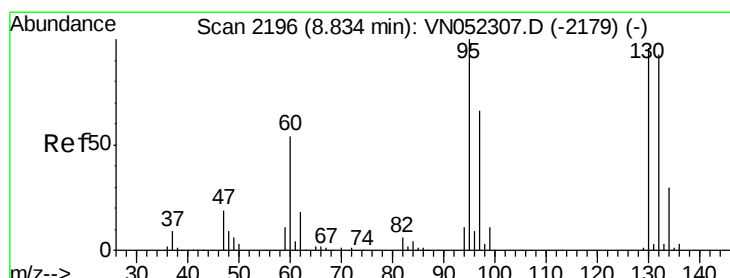
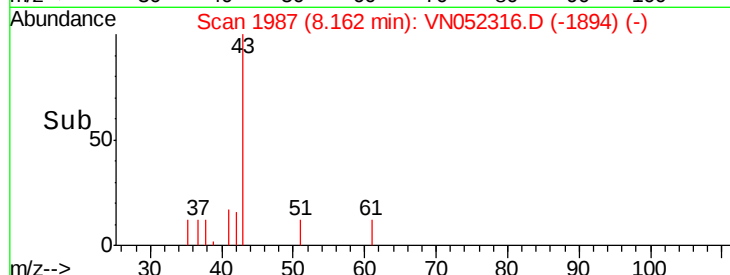
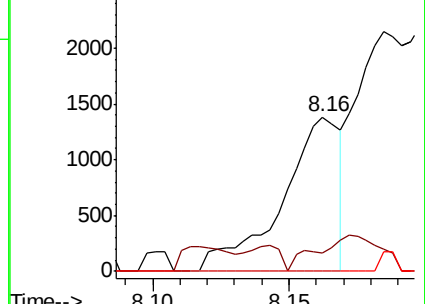
87 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052316.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN052316.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN052316.D (-1894) (-)



#44

Trichloroethene

Concen: 0.555 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN052316.D

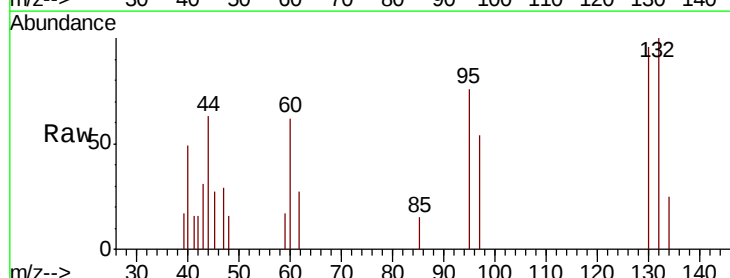
Acq: 14 Nov 2018 16:42

Tgt Ion: 130 Resp: 1762

Ion Ratio Lower Upper

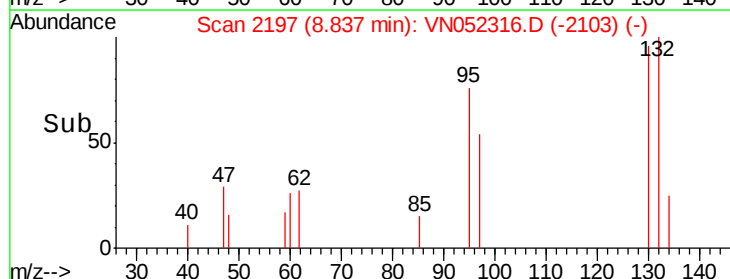
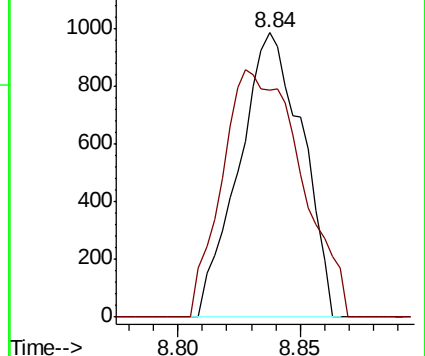
130 100

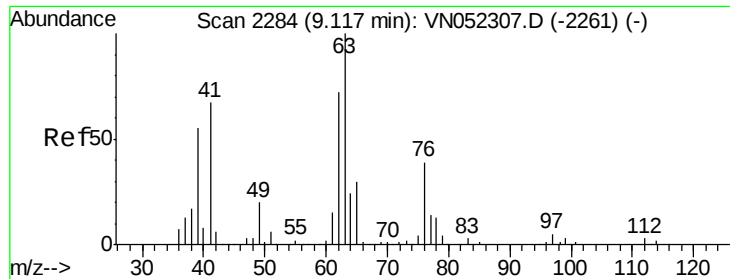
95 79.8 0.0 208.4



Abundance Ion 129.80 (129.50 to 130.50): VN052316.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN052316.D (-2103) (-)

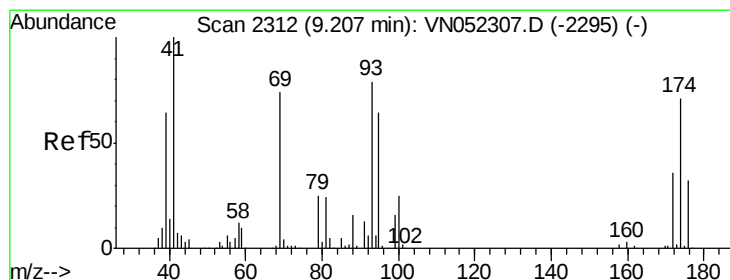
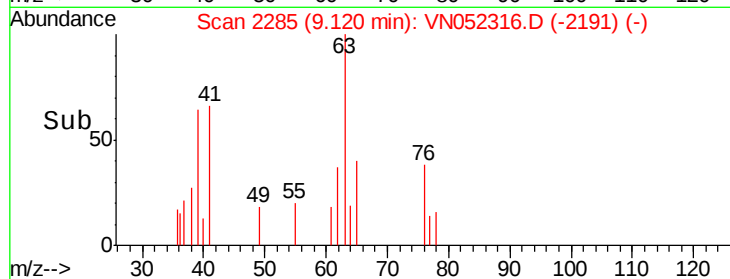
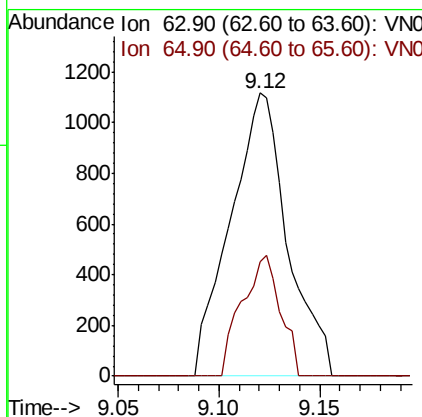
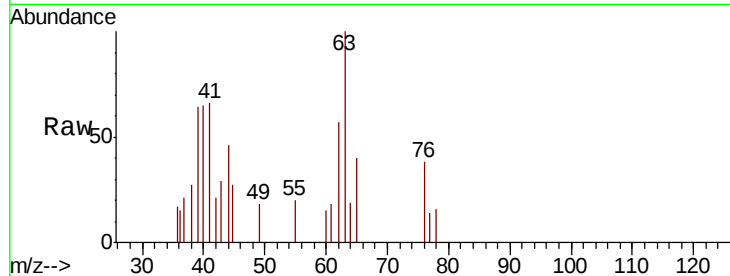




#45
 1,2-Dichloropropane
 Concen: 0.602 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

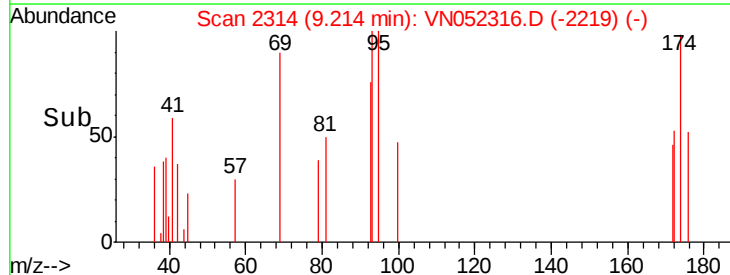
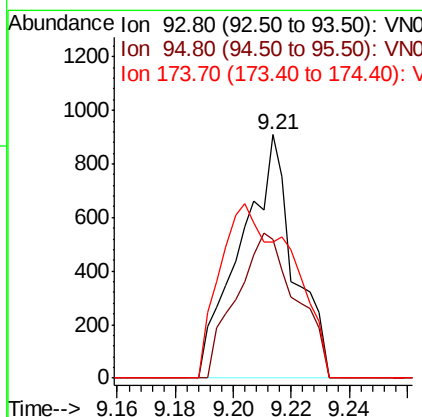
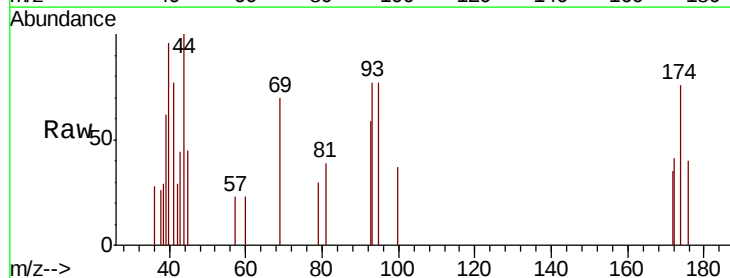
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

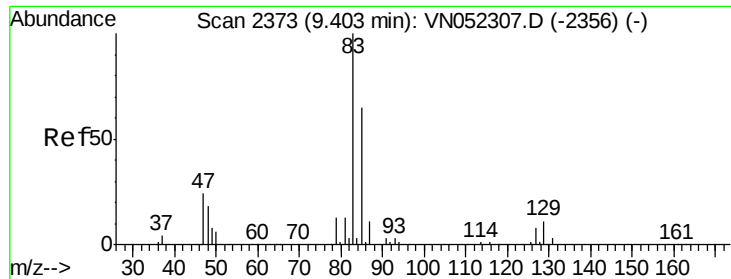
Tot Ion: 63 Resp: 2200
 Ion Ratio Lower Upper
 63 100
 65 40.2 24.2 36.4#



#46
 Dibromomethane
 Concen: 0.550 ug/l
 RT: 9.21 min Scan# 2314
 Delta R.T. 0.01 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 93 Resp: 1164
 Ion Ratio Lower Upper
 93 100
 95 66.9 64.2 96.2
 174 96.4 70.9 106.3





#47

Bromodichloromethane

Concen: 0.733 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

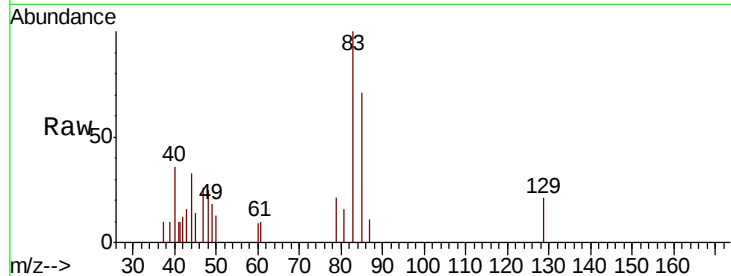
Tot Ion: 83 Resp: 3184

Ion Ratio Lower Upper

83 100

85 70.6 52.2 78.4

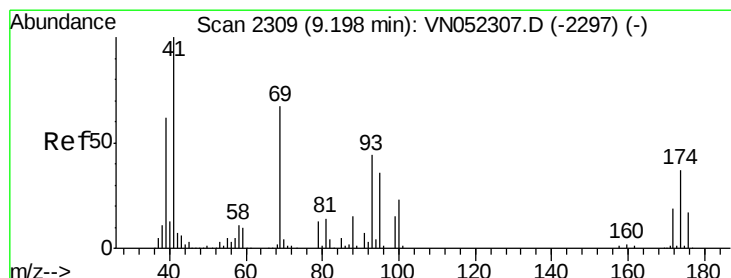
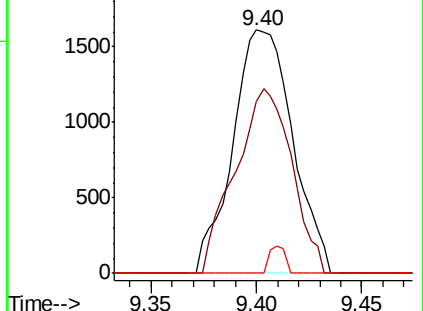
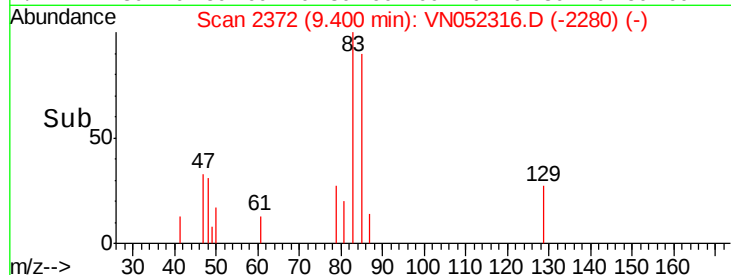
127 0.0 6.7 10.1#



Abundance Ion 82.90 (82.60 to 83.60): VN052316.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN052316.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN052316.D (-2280) (-)



#48

Methyl methacrylate

Concen: 0.602 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

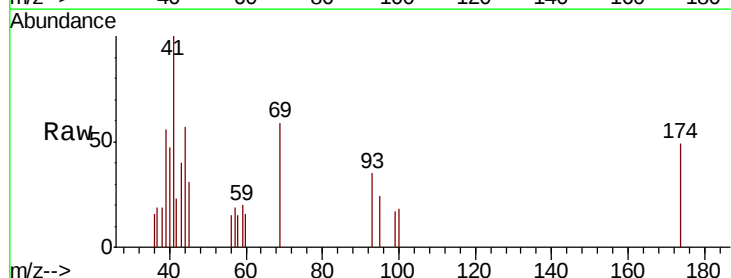
Tgt Ion: 41 Resp: 1929

Ion Ratio Lower Upper

41 100

69 67.7 57.1 85.7

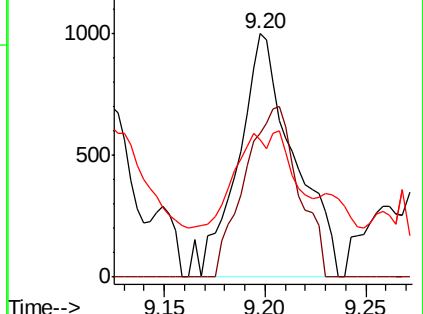
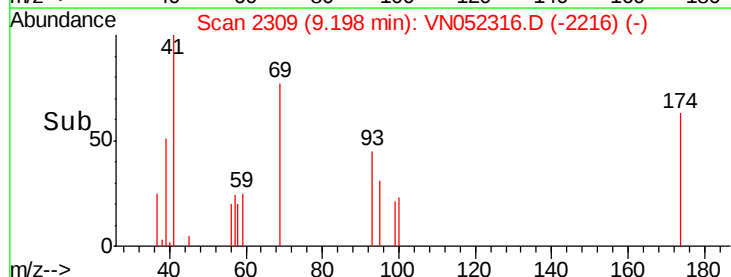
39 21.5 52.5 78.7#

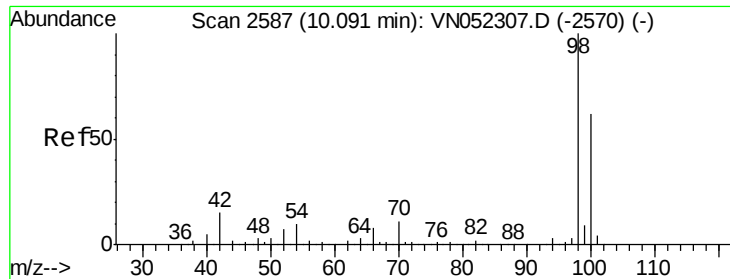


Abundance Ion 41.00 (40.70 to 41.70): VN052316.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN052316.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN052316.D (-2216) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

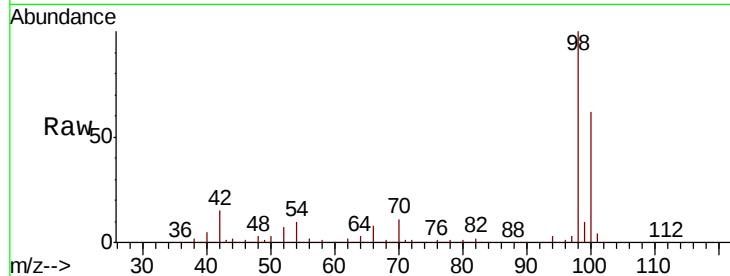
MDL-WATER-03-QT4-2018

Tot Ion: 98 Resp: 551259

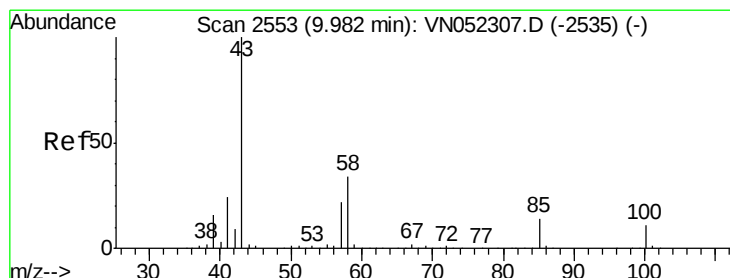
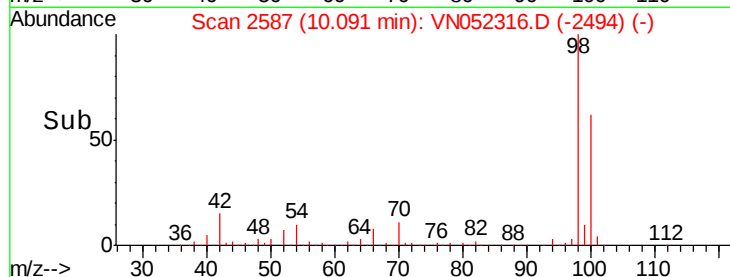
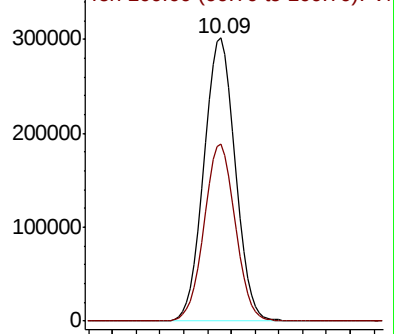
Ion Ratio Lower Upper

98 100

100 62.0 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052316.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.489 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052316.D

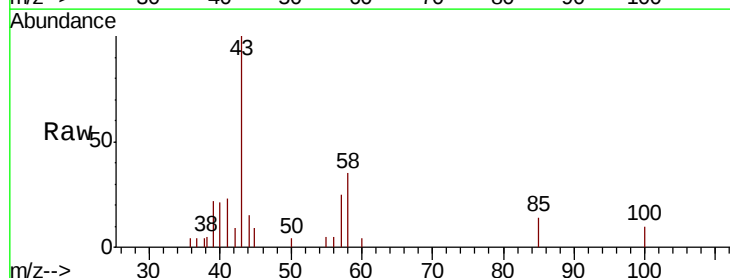
Acq: 14 Nov 2018 16:42

Tgt Ion: 43 Resp: 7914

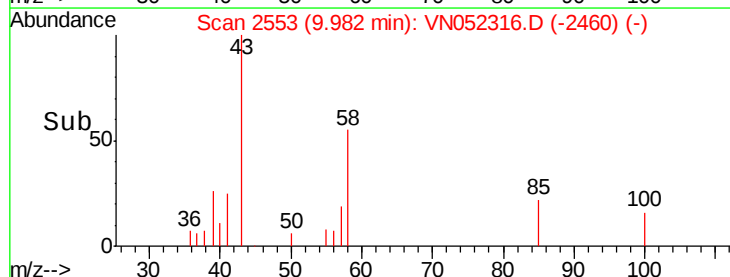
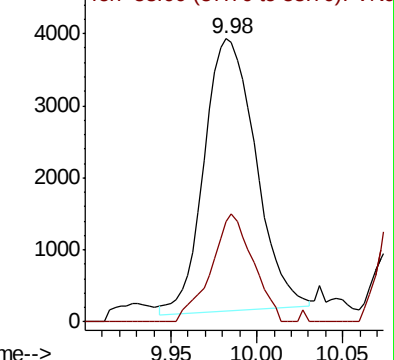
Ion Ratio Lower Upper

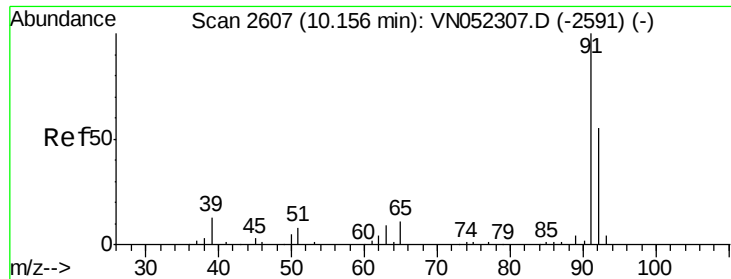
43 100

58 32.0 27.0 40.6



Abundance Ion 43.00 (42.70 to 43.70): VN052316.D (-2460) (-)





#52

Toluene

Concen: 0.495 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

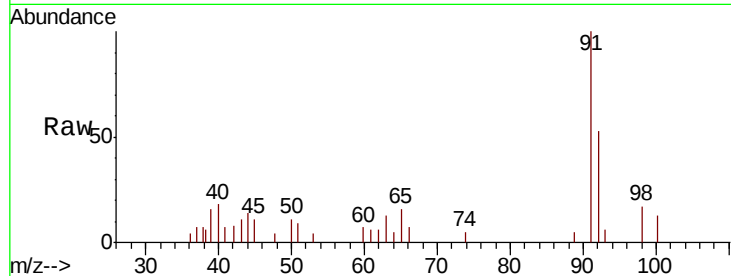
MDL-WATER-03-QT4-2018

Tot Ion: 92 Resp: 3818

Ion Ratio Lower Upper

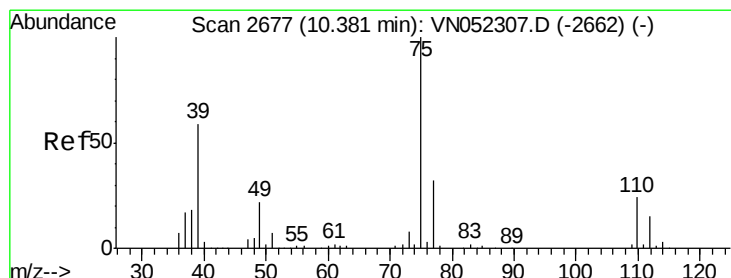
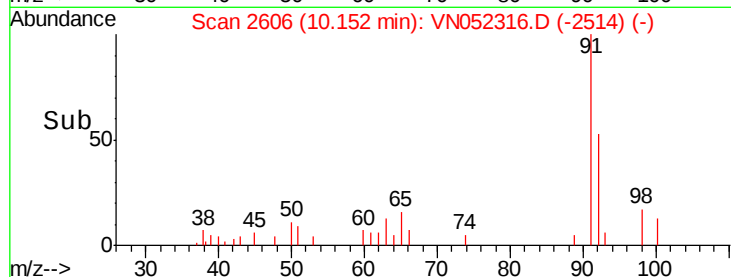
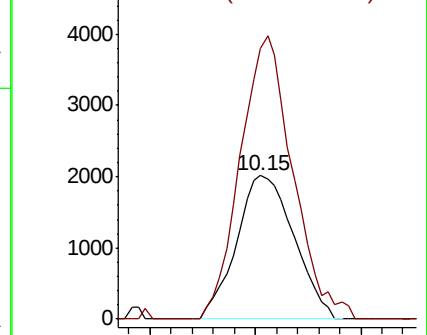
92 100

91 180.3 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.416 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052316.D

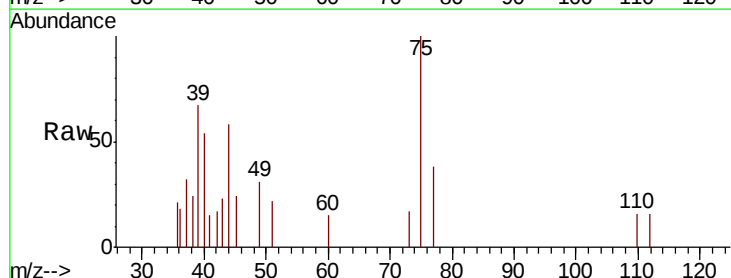
Acq: 14 Nov 2018 16:42

Tgt Ion: 75 Resp: 1822

Ion Ratio Lower Upper

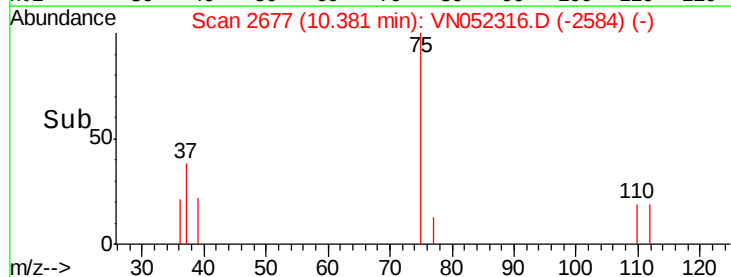
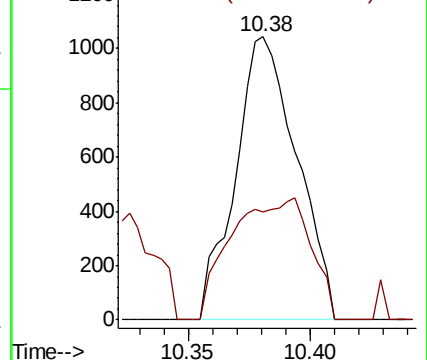
75 100

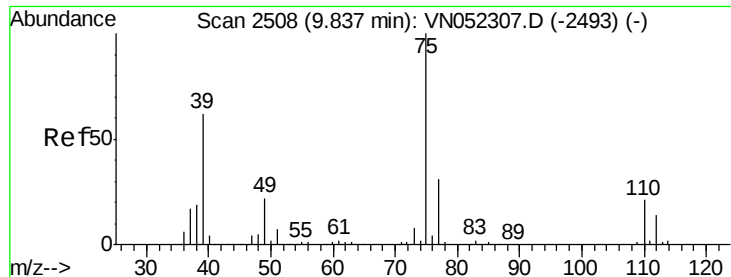
77 38.2 25.7 38.5



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 0.522 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

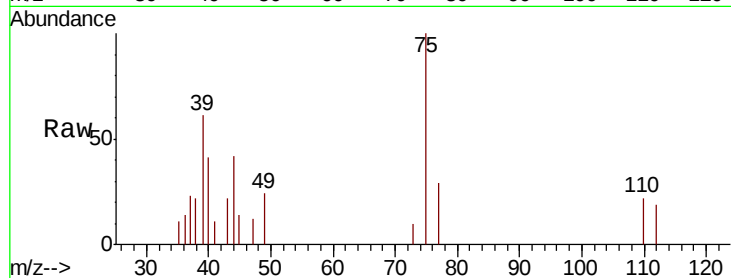
Tot Ion: 75 Resp: 2607

Ion Ratio Lower Upper

75 100

77 29.3 24.6 36.8

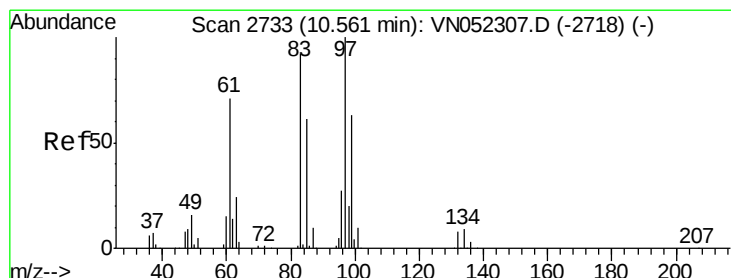
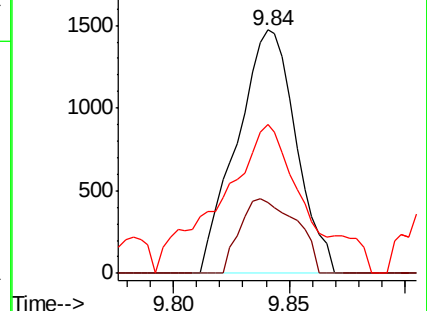
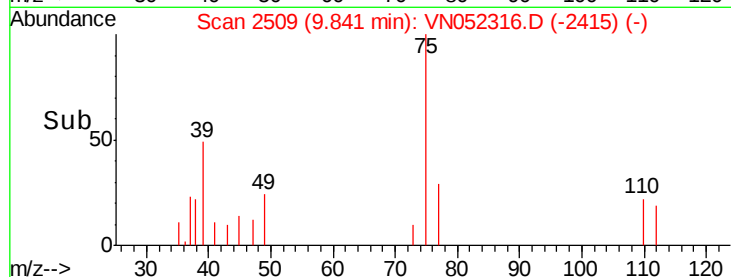
39 45.8 49.9 74.9#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN052307.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN052307.D (-2493) (-)



#55

1,1,2-Trichloroethane

Concen: 0.543 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Tgt Ion: 97 Resp: 1516

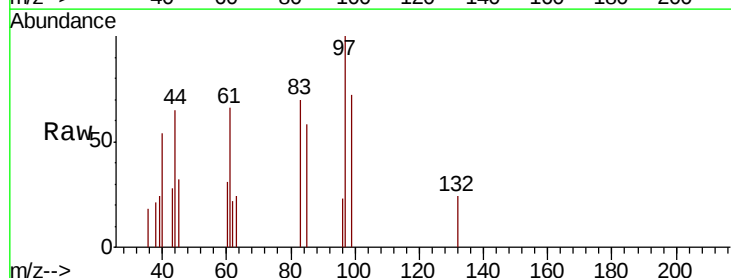
Ion Ratio Lower Upper

97 100

83 70.0 73.8 110.6#

85 58.5 49.0 73.4

99 72.5 50.5 75.7

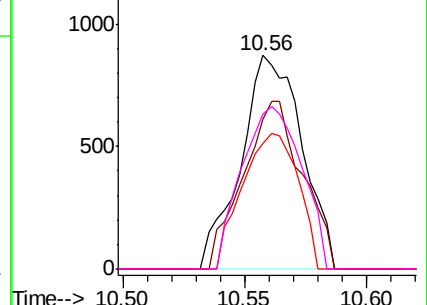
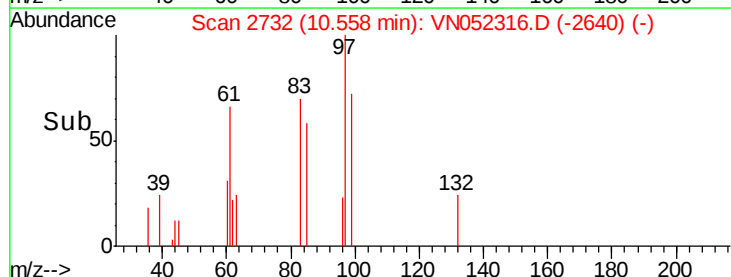


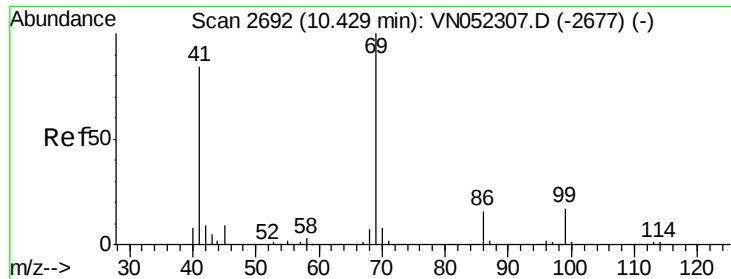
Abundance Ion 96.90 (96.60 to 97.60): VN052307.D (-2718) (-)

Ion 82.90 (82.60 to 83.60): VN052307.D (-2718) (-)

Ion 84.90 (84.60 to 85.60): VN052307.D (-2718) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-2718) (-)





#56

Ethyl methacrylate

Concen: 0.435 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

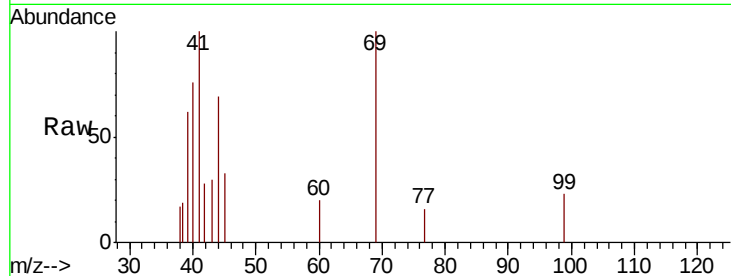
Tot Ion: 69 Resp: 1597

Ion Ratio Lower Upper

69 100

41 107.0 64.8 97.2#

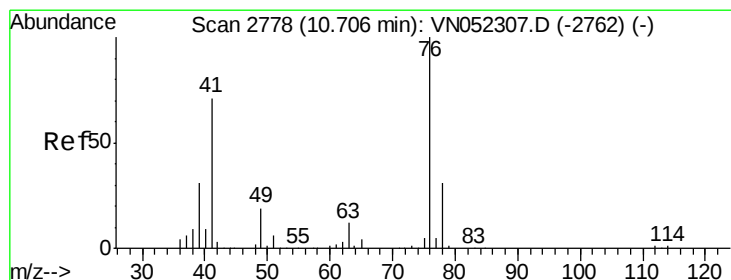
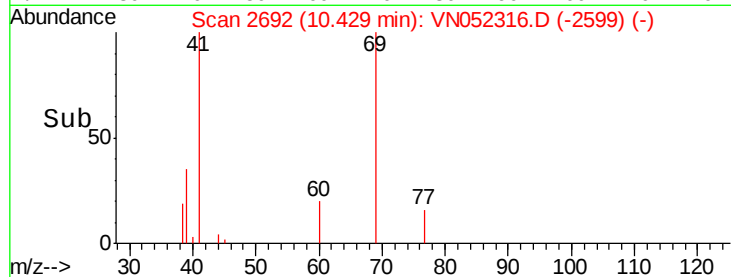
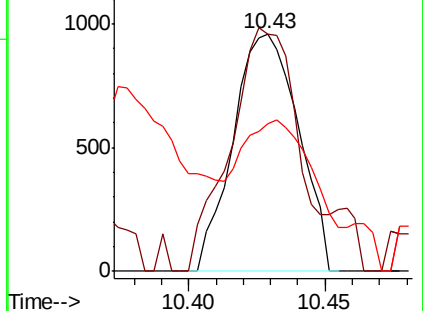
39 46.9 41.0 61.6



Abundance Ion 69.00 (68.70 to 69.70): VN052316.D (-2599) (-)

Ion 41.00 (40.70 to 41.70): VN052316.D (-2599) (-)

Ion 39.00 (38.70 to 39.70): VN052316.D (-2599) (-)



#57

1,3-Dichloropropane

Concen: 0.469 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN052316.D

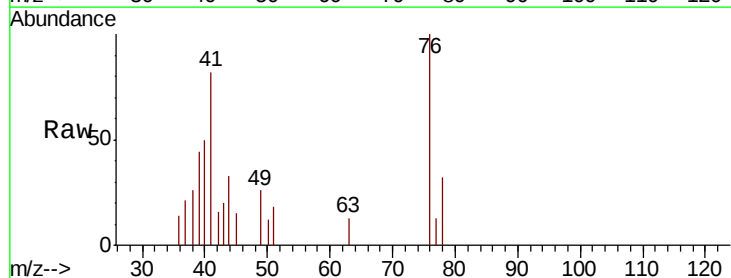
Acq: 14 Nov 2018 16:42

Tgt Ion: 76 Resp: 2320

Ion Ratio Lower Upper

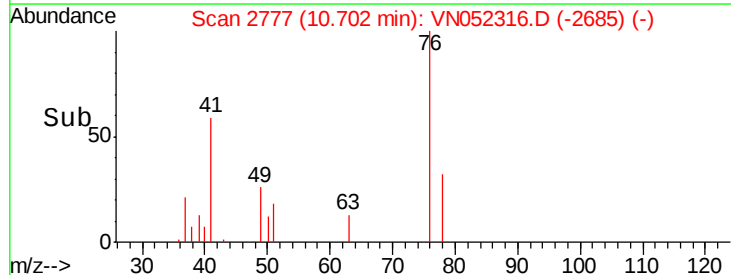
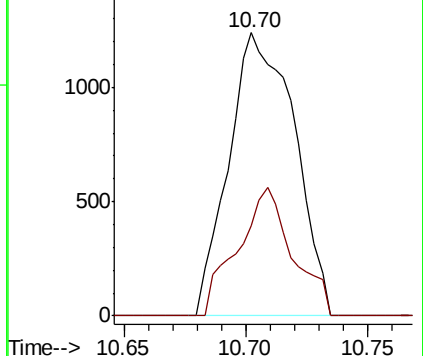
76 100

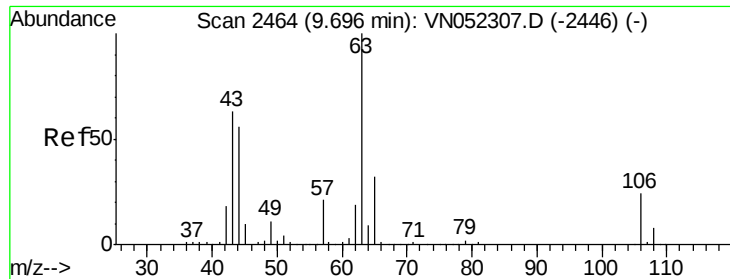
78 37.9 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN052316.D (-2685) (-)

Ion 77.90 (77.60 to 78.60): VN052316.D (-2685) (-)

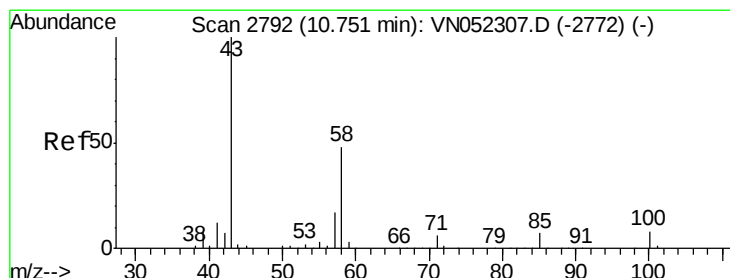
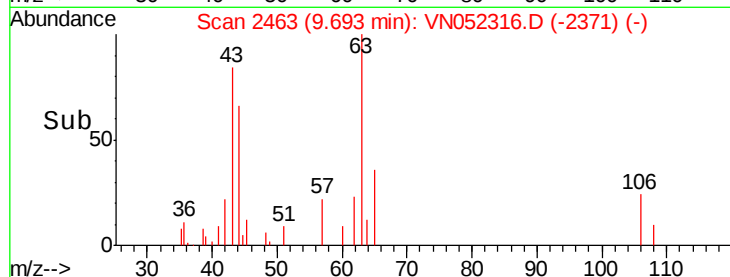
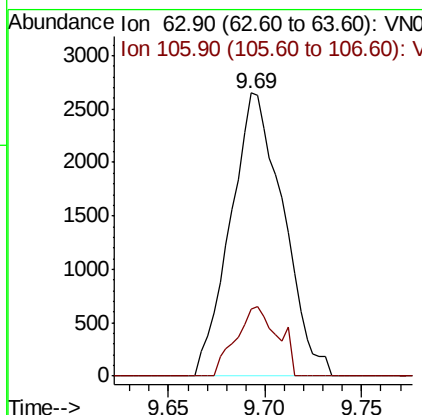
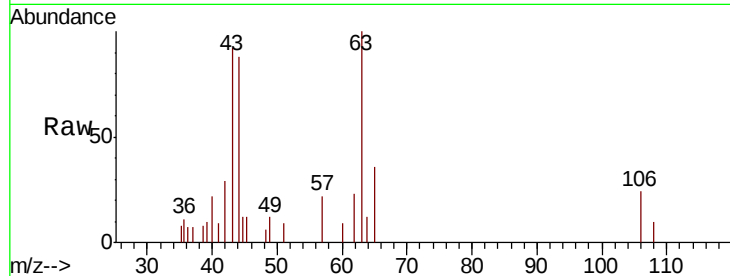




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.398 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

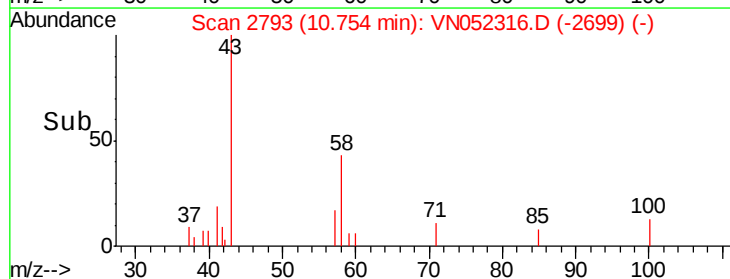
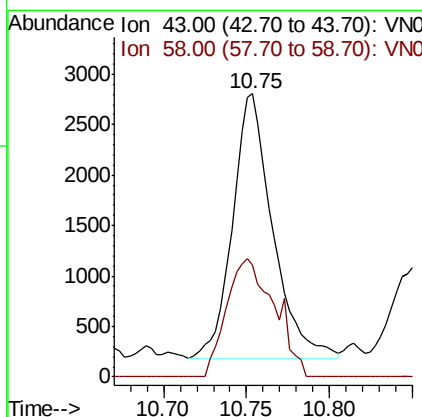
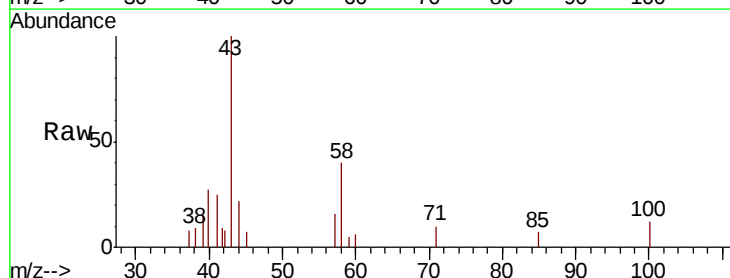
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

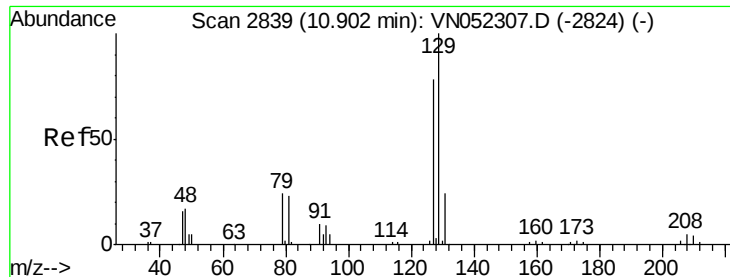
Tot Ion: 63 Resp: 5018
 Ion Ratio Lower Upper
 63 100
 106 19.4 19.3 28.9



#59
 2-Hexanone
 Concen: 2.018 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 43 Resp: 4413
 Ion Ratio Lower Upper
 43 100
 58 53.5 23.5 70.6





#60

Dibromochloromethane

Concen: 0.387 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

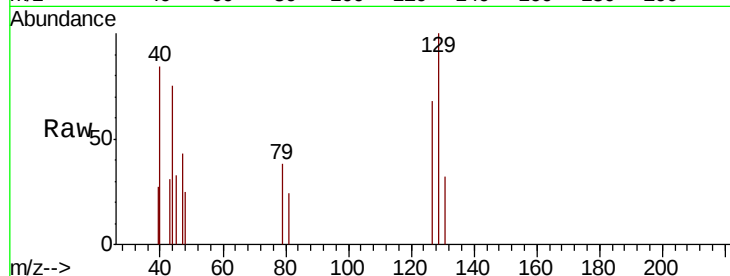
MDL-WATER-03-QT4-2018

Tot Ion:129 Resp: 1171

Ion Ratio Lower Upper

129 100

127 86.9 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

800

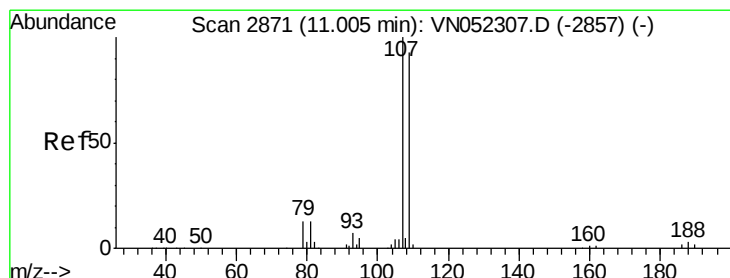
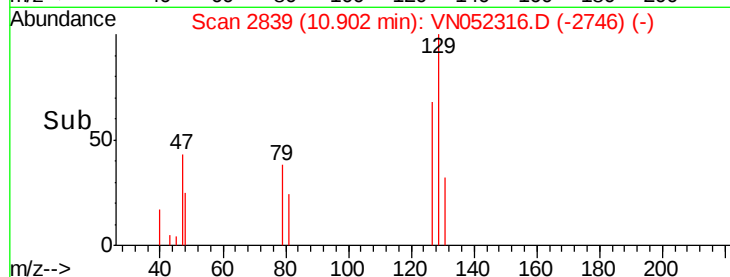
600

400

200

0

Time-->



#61

1,2-Dibromoethane

Concen: 0.472 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. 0.01 min

Lab File: VN052316.D

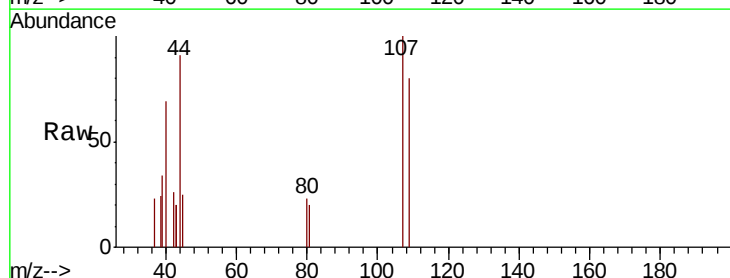
Acq: 14 Nov 2018 16:42

Tgt Ion:107 Resp: 1315

Ion Ratio Lower Upper

107 100

109 88.3 74.9 112.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

800

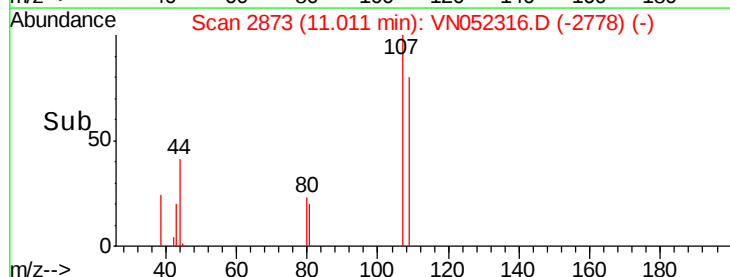
600

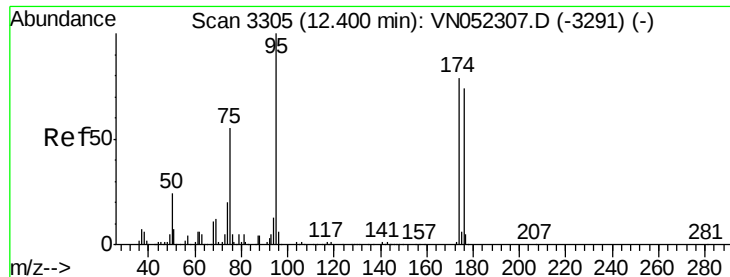
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 0.472 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

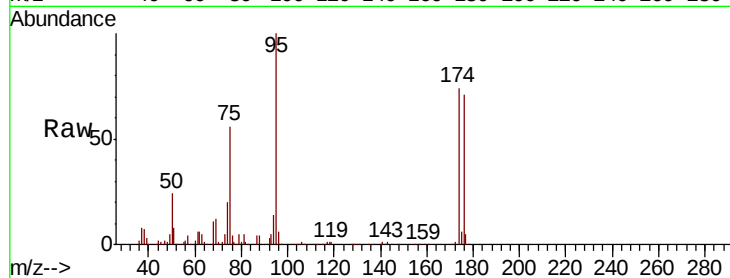
Tot Ion: 95 Resp: 163191

Ion Ratio Lower Upper

95 100

174 76.2 0.0 156.0

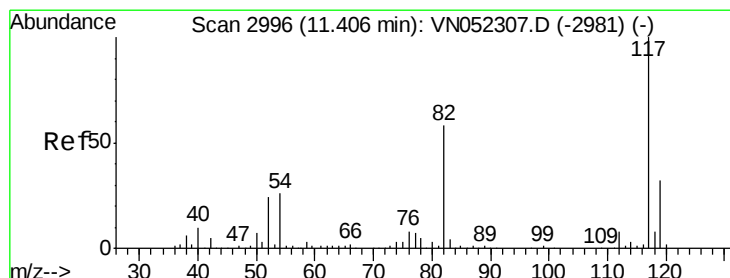
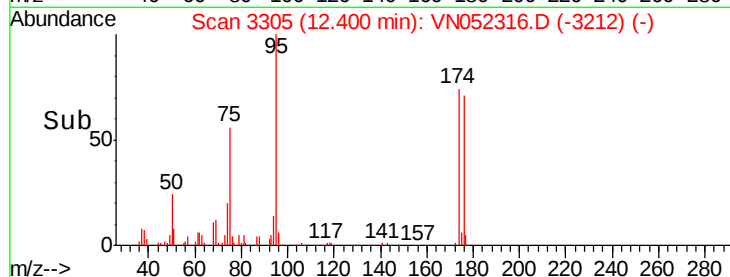
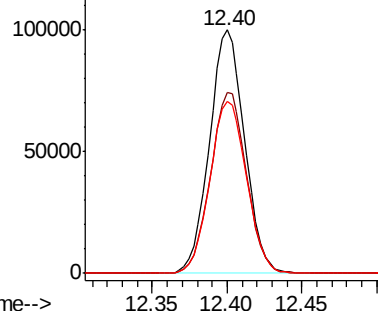
176 73.7 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052316.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052316.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052316.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

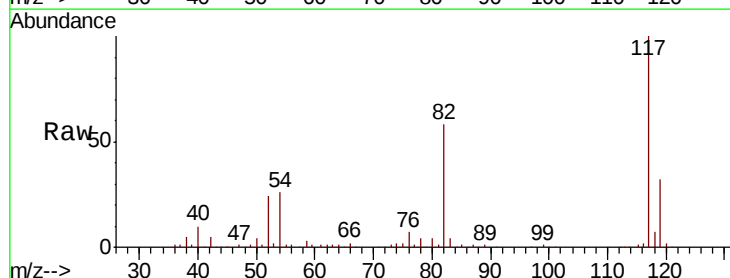
Tgt Ion: 117 Resp: 389875

Ion Ratio Lower Upper

117 100

82 57.8 46.5 69.7

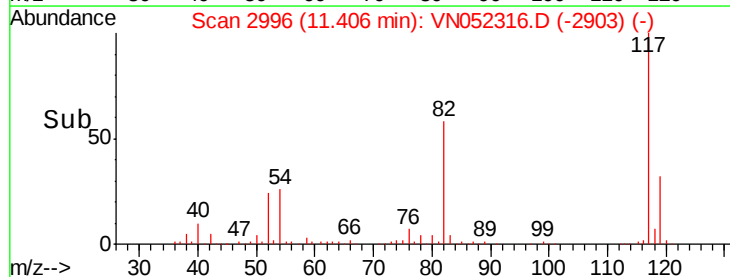
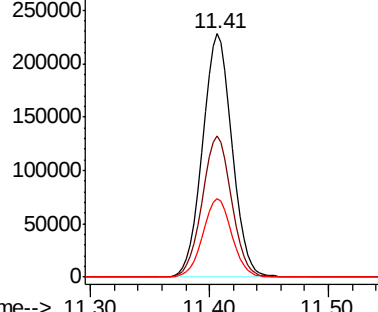
119 32.4 25.7 38.5

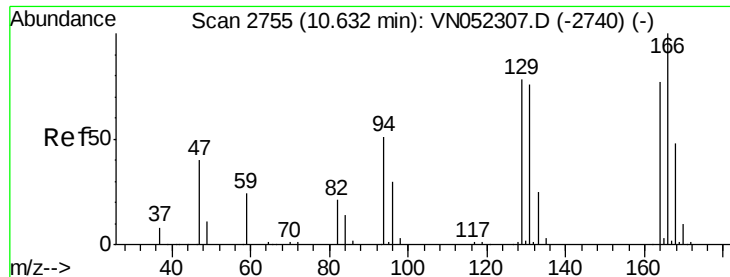


Abundance Ion 116.90 (116.60 to 117.60): VN052316.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052316.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052316.D (-2903) (-)





#64

Tetrachloroethene

Concen: 0.519 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

Tot Ion:164 Resp: 1438

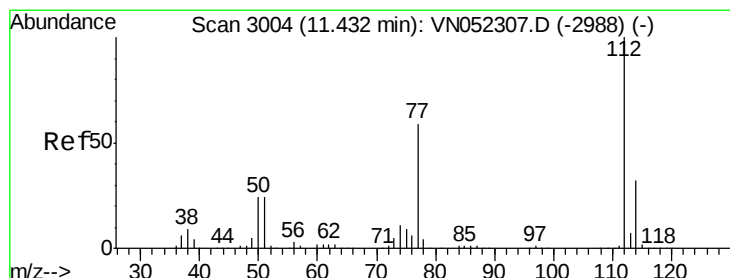
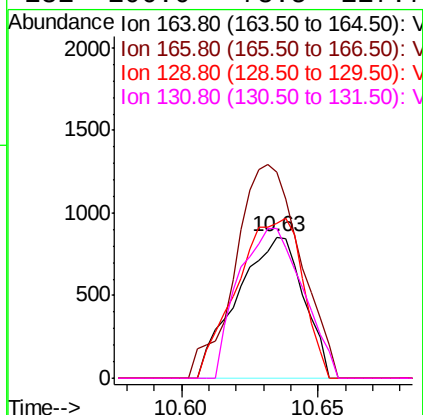
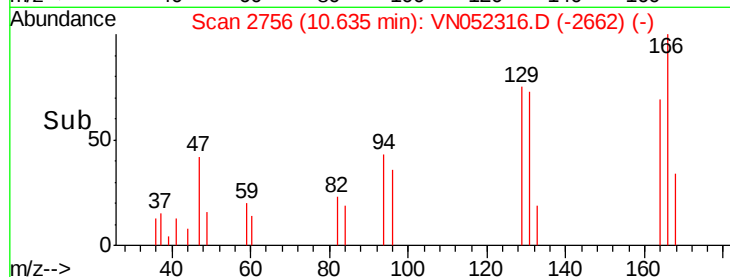
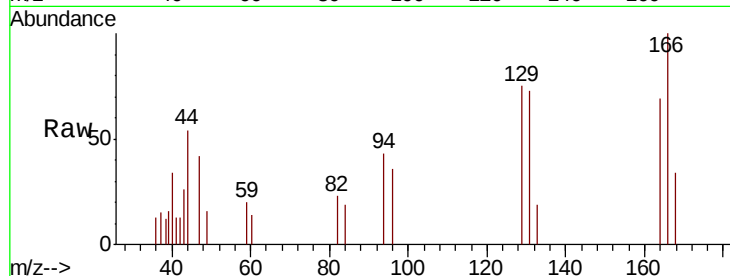
Ion Ratio Lower Upper

164 100

166 146.0 103.8 155.6

129 109.2 80.7 121.1

131 106.0 78.5 117.7



#65

Chlorobenzene

Concen: 0.526 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052316.D

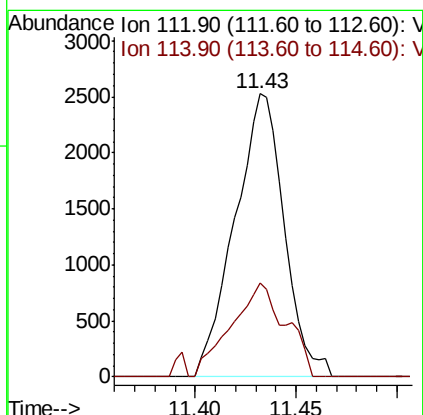
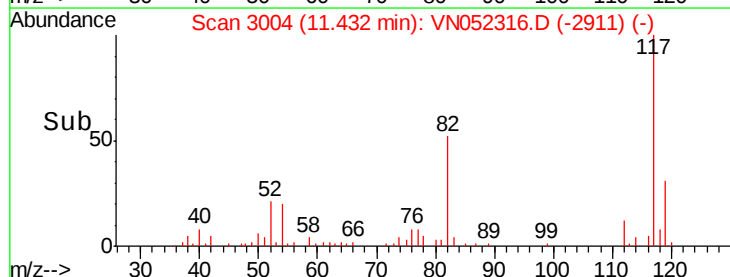
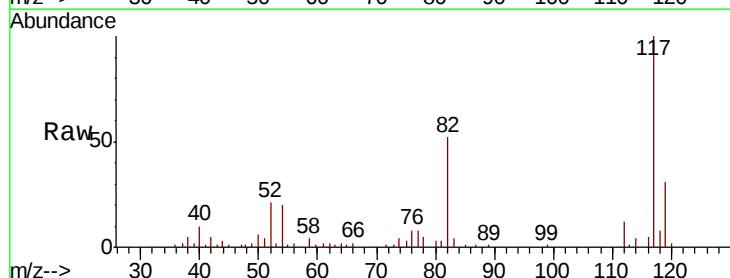
Acq: 14 Nov 2018 16:42

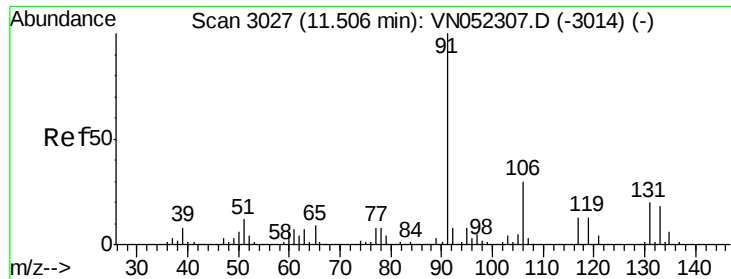
Tgt Ion:112 Resp: 4334

Ion Ratio Lower Upper

112 100

114 33.3 25.9 38.9

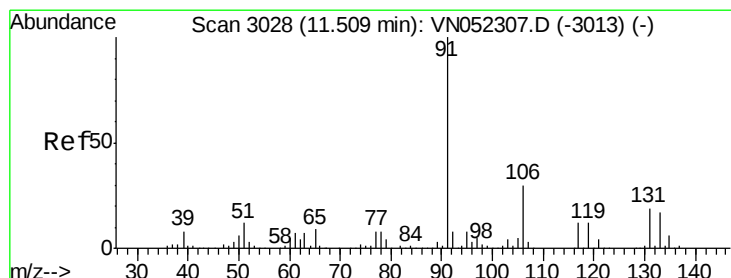
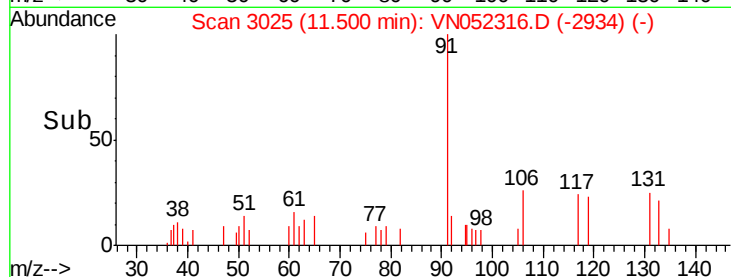
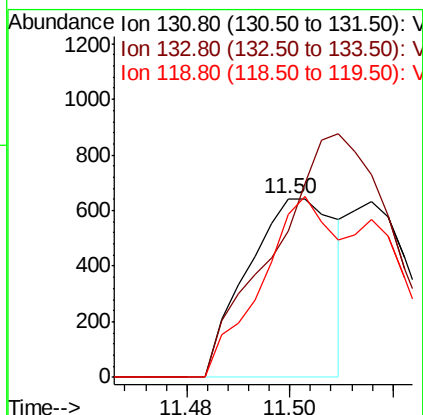
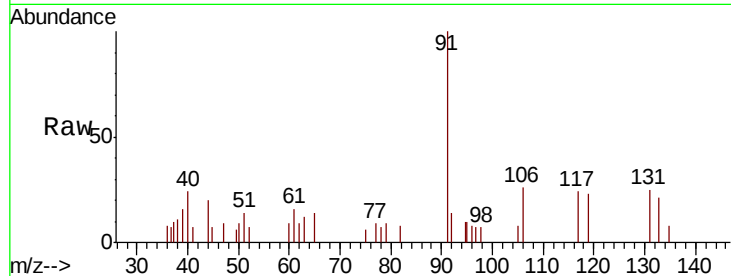




#66
 1,1,1,2-Tetrachloroethane
 Concen: 0.272 ug/l
 RT: 11.50 min Scan# 3025
 Delta R.T. -0.01 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

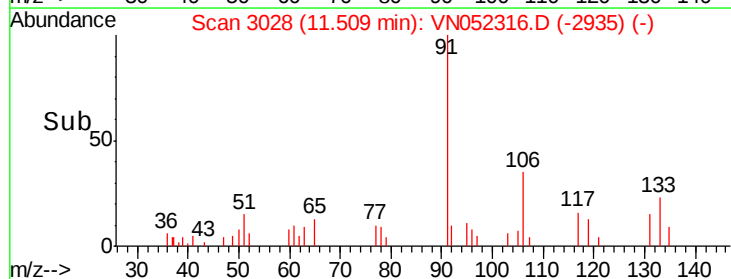
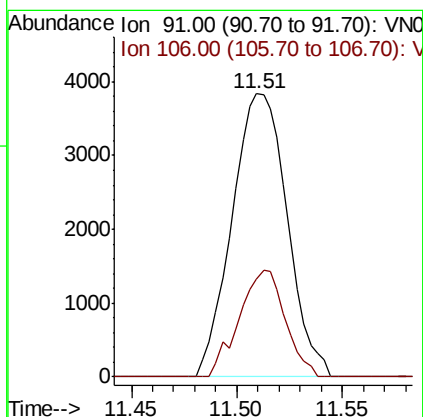
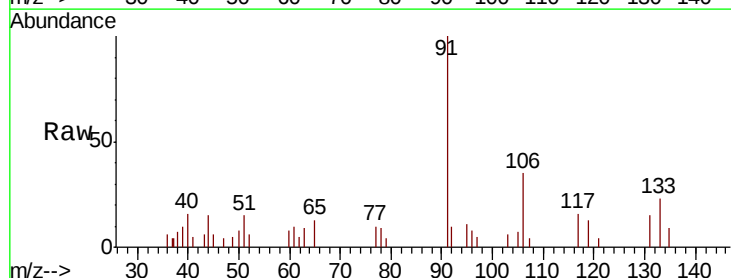
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

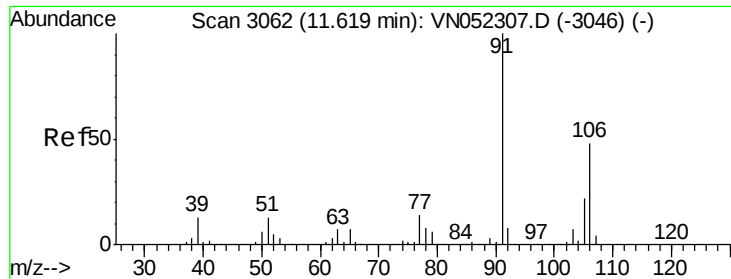
Tot Ion:131 Resp: 765
 Ion Ratio Lower Upper
 131 100
 133 186.0 47.4 142.3#
 119 0.0 33.3 99.9#



#67
 Ethyl Benzene
 Concen: 0.487 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 91 Resp: 6963
 Ion Ratio Lower Upper
 91 100
 106 34.6 24.2 36.2

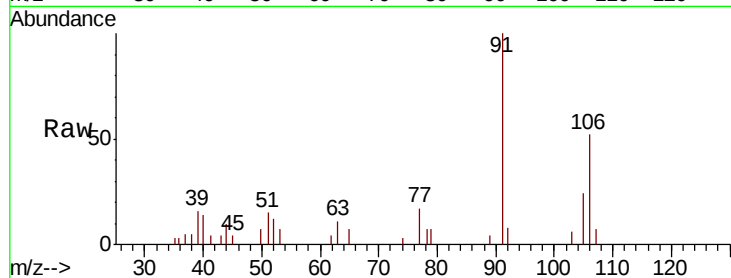




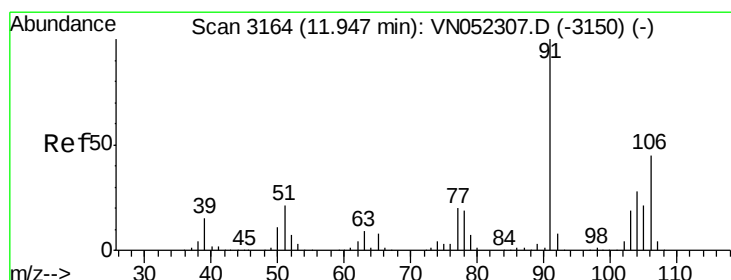
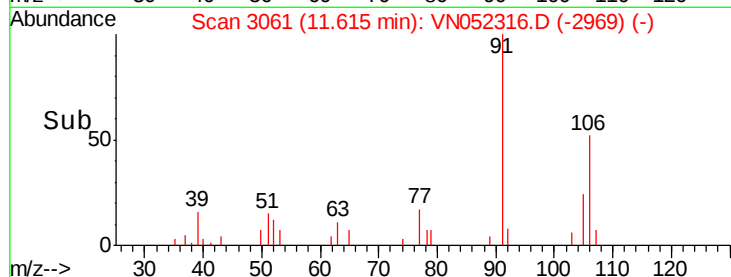
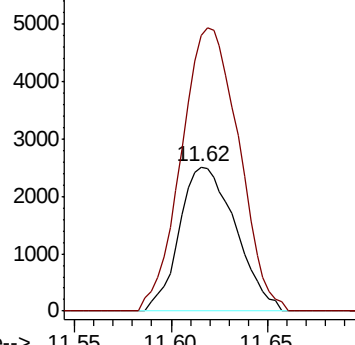
#68
m/p-Xylenes
Concen: 0.967 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

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

Tot Ion:106 Resp: 5056
Ion Ratio Lower Upper
106 100
91 201.0 165.5 248.3

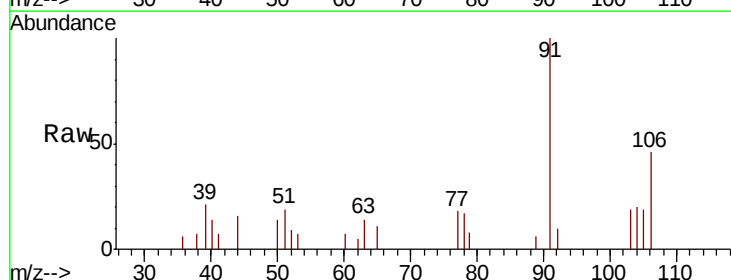


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

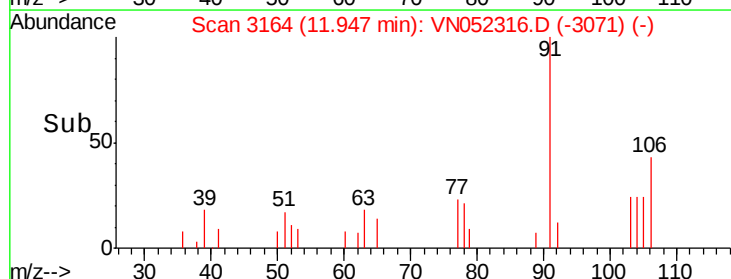
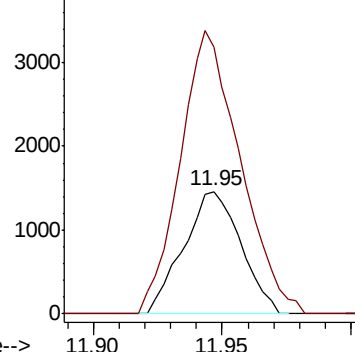


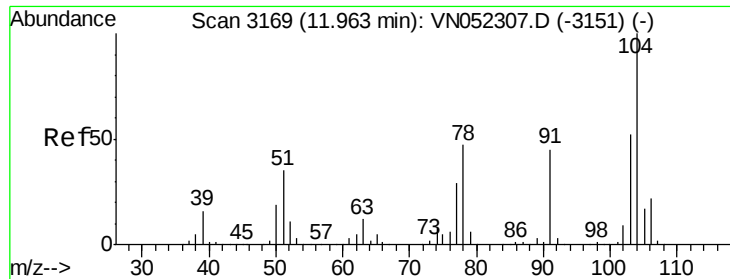
#69
o-Xylene
Concen: 0.451 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion:106 Resp: 2261
Ion Ratio Lower Upper
106 100
91 242.1 110.0 330.0



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

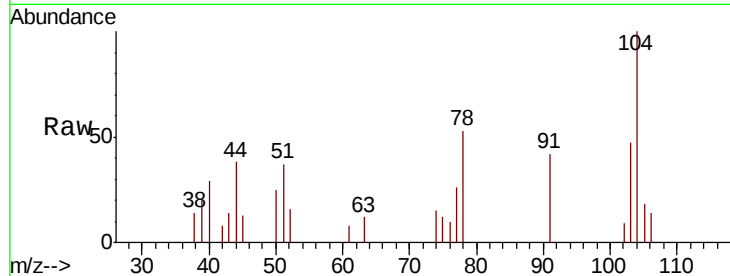




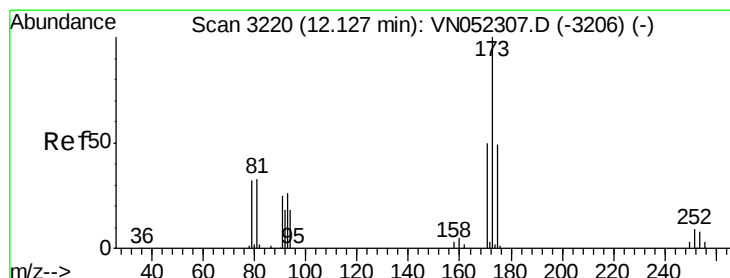
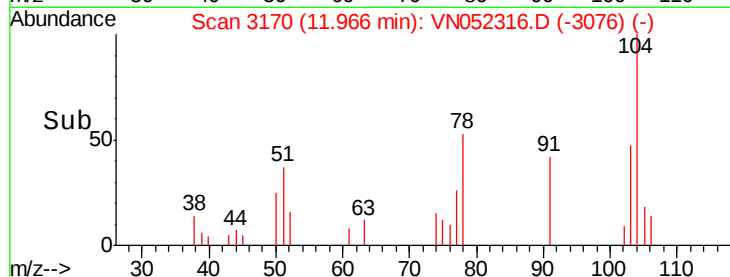
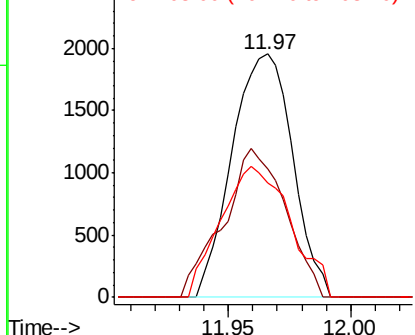
#70
Stvrene
Concen: 0.421 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

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

Tot Ion:104 Resp: 3373
Ion Ratio Lower Upper
104 100
78 62.8 42.7 64.1
103 61.8 45.4 68.0

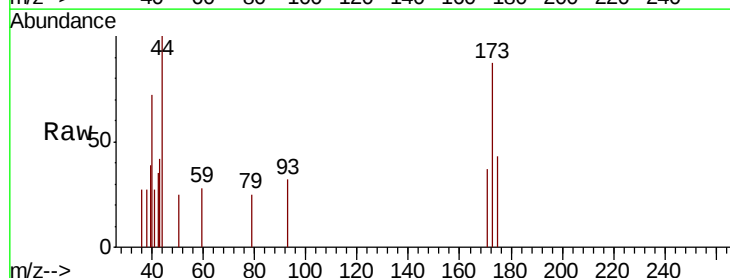


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

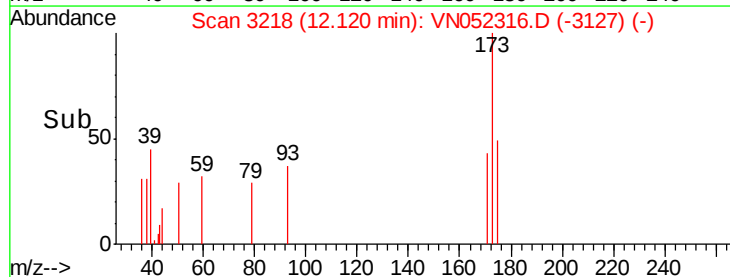
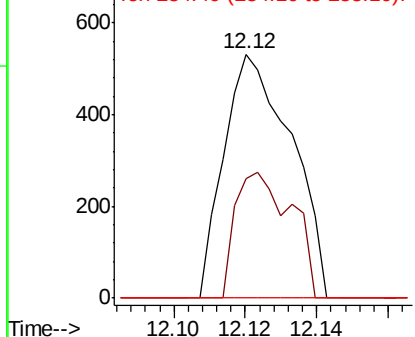


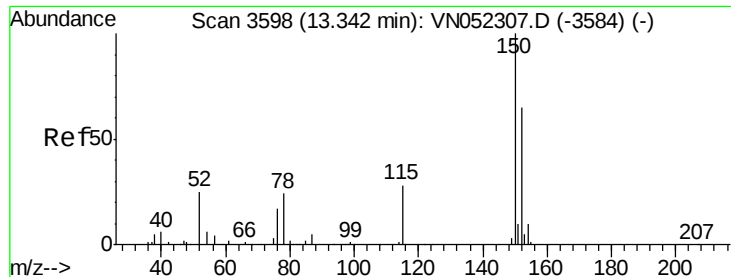
#71
Bromoform
Concen: 0.418 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. -0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion:173 Resp: 693
Ion Ratio Lower Upper
173 100
175 43.0 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: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

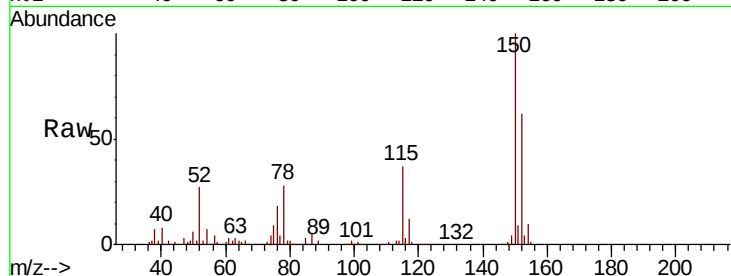
Tot Ion:152 Resp: 136921

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

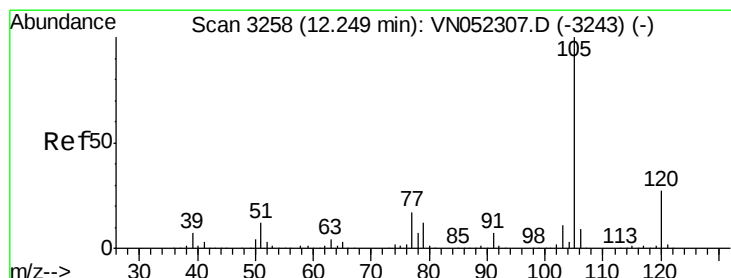
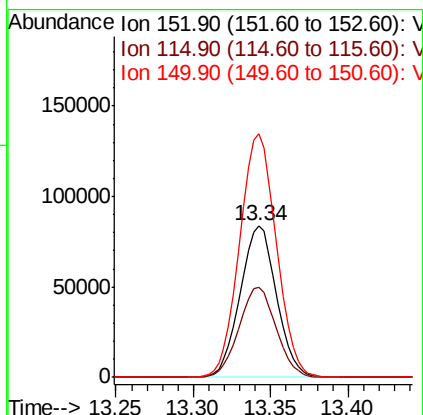
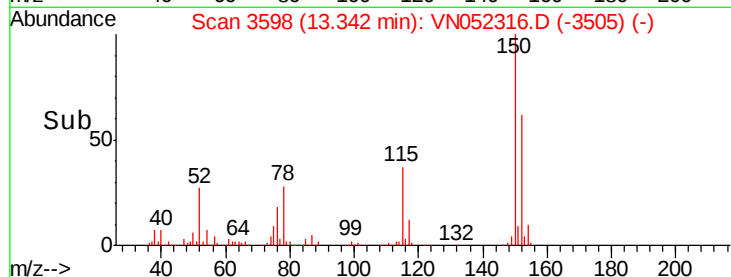
150 162.2 0.0 348.2



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: 0.538 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052316.D

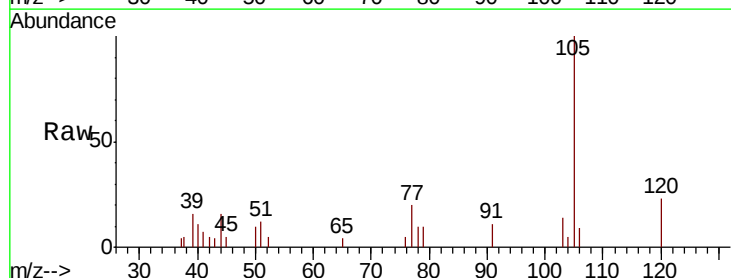
Acq: 14 Nov 2018 16:42

Tgt Ion:105 Resp: 5918

Ion Ratio Lower Upper

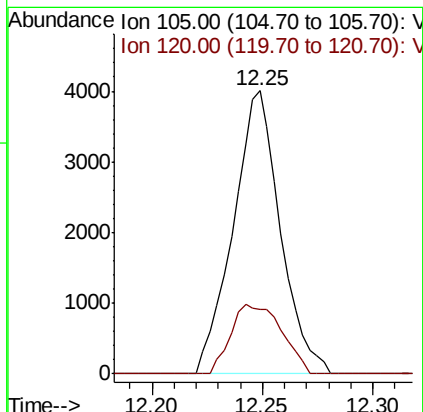
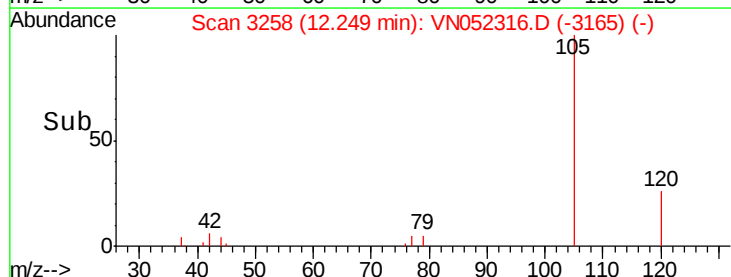
105 100

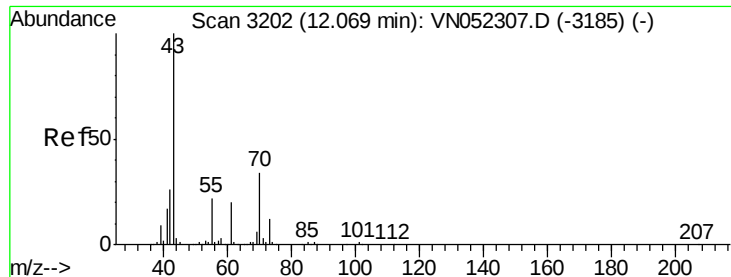
120 26.4 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.593 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

Tot Ion: 43 Resp: 2327

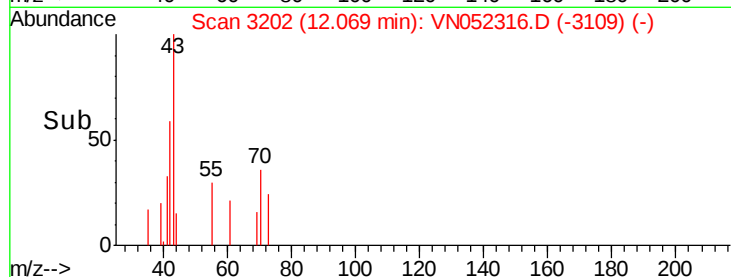
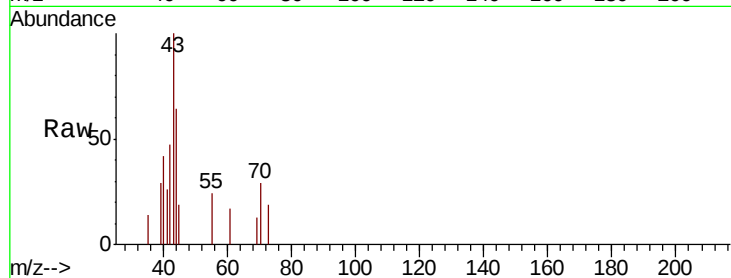
Ion Ratio Lower Upper

43 100

70 0.0 27.1 40.7#

55 25.7 17.4 26.0

61 12.9 16.1 24.1#

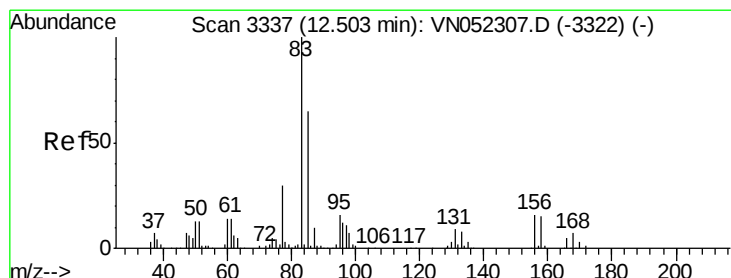
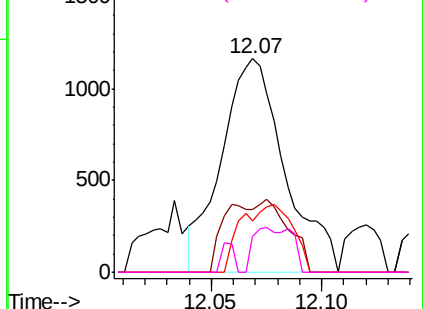


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.565 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

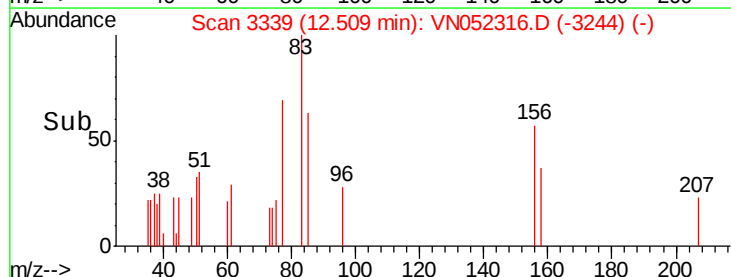
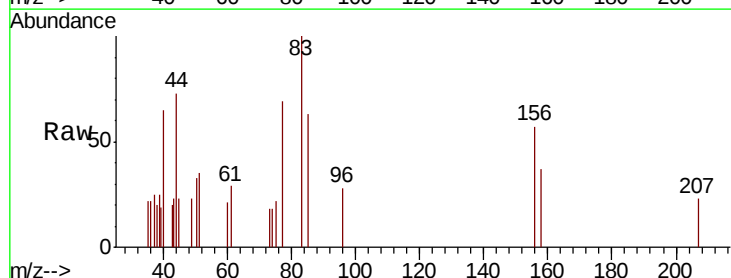
Tgt Ion: 83 Resp: 1504

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

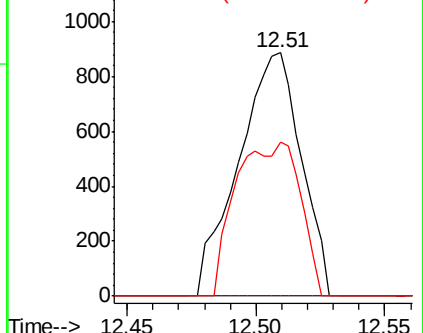
85 32.9 32.4 97.2

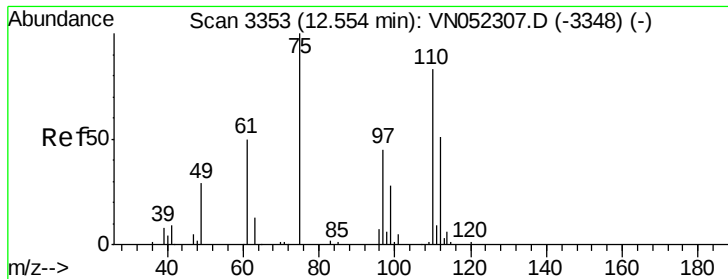


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0

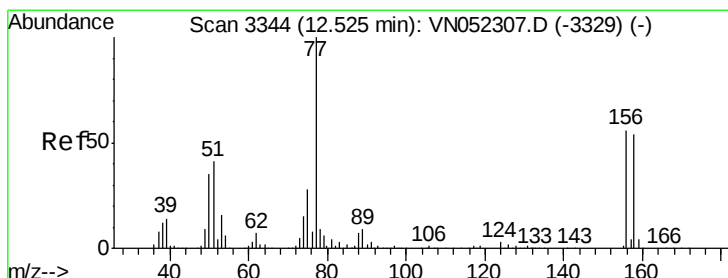
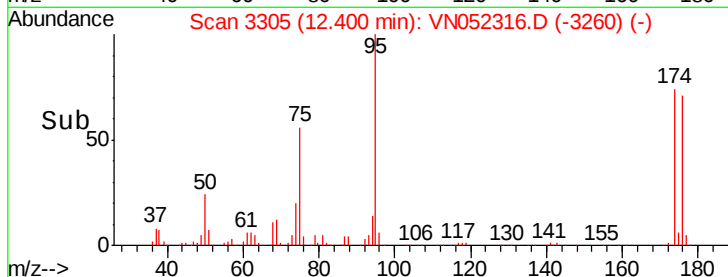
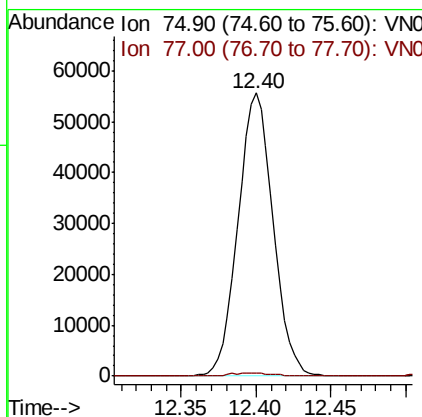
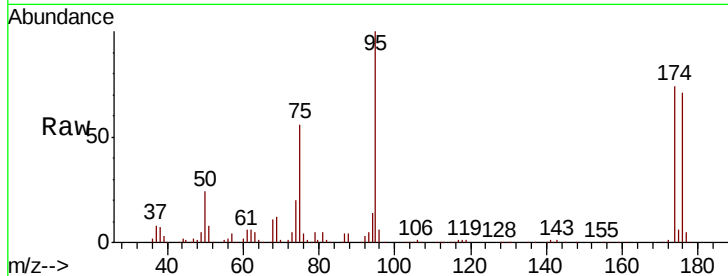




#76
 1,2,3-Trichloropropane
 Concen: 39.021 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

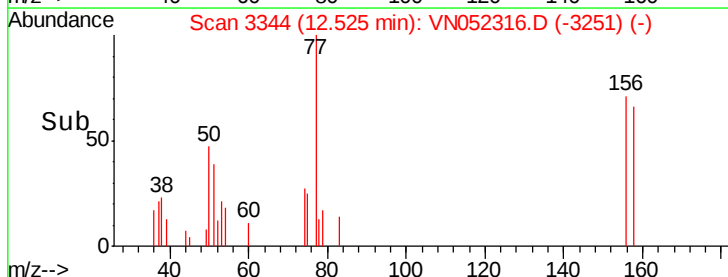
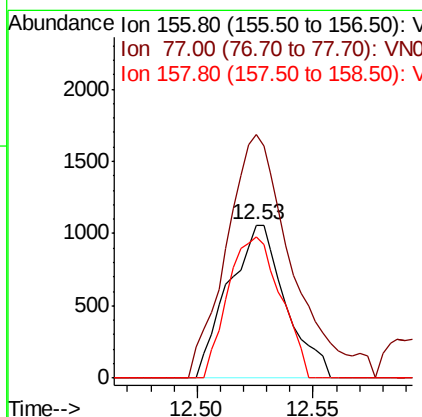
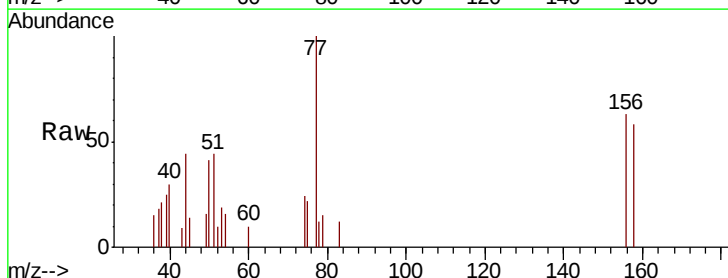
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

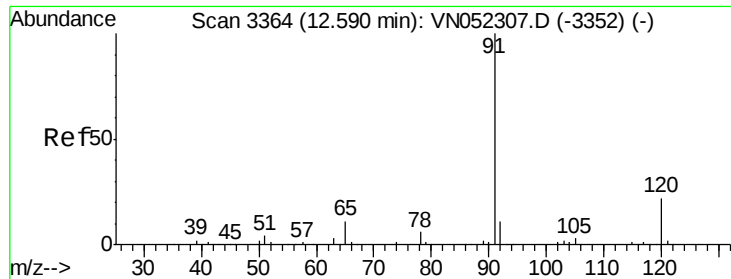
Tot Ion: 75 Resp: 90657
 Ion Ratio Lower Upper
 75 100
 77 0.6 0.0 0.0#



#77
 Bromobenzene
 Concen: 0.705 ug/l
 RT: 12.53 min Scan# 3344
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 156 Resp: 1806
 Ion Ratio Lower Upper
 156 100
 77 182.4 103.6 310.9
 158 85.3 48.1 144.4





#78

n-propylbenzene

Concen: 0.548 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

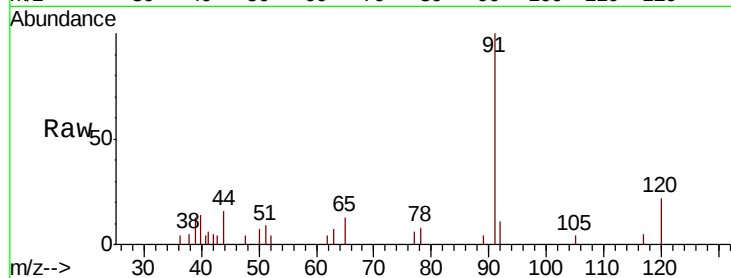
MDL-WATER-03-QT4-2018

Tot Ion: 91 Resp: 7058

Ion Ratio Lower Upper

91 100

120 23.7 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

5000

4000

3000

2000

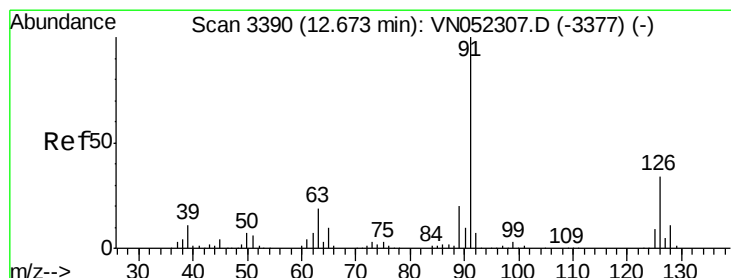
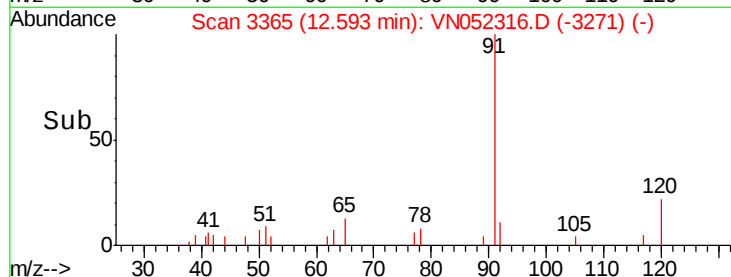
1000

0

12.55

12.60

Time-->



#79

2-Chlorotoluene

Concen: 0.610 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052316.D

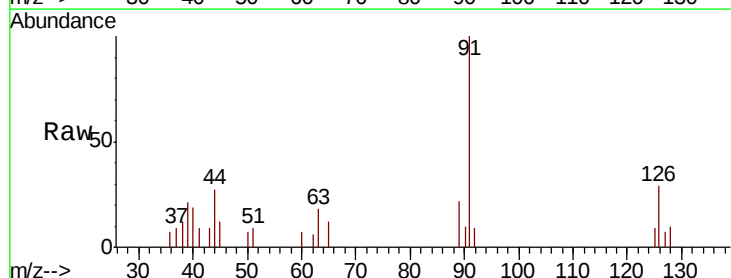
Acq: 14 Nov 2018 16:42

Tgt Ion: 91 Resp: 4591

Ion Ratio Lower Upper

91 100

126 32.4 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

3000

2500

2000

1500

1000

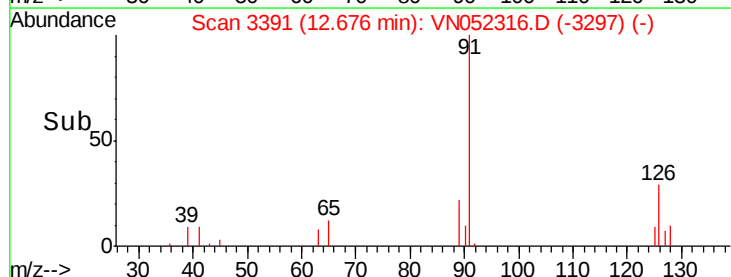
500

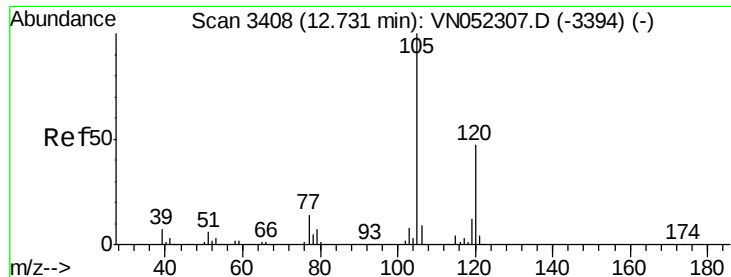
0

12.65

12.70

Time-->

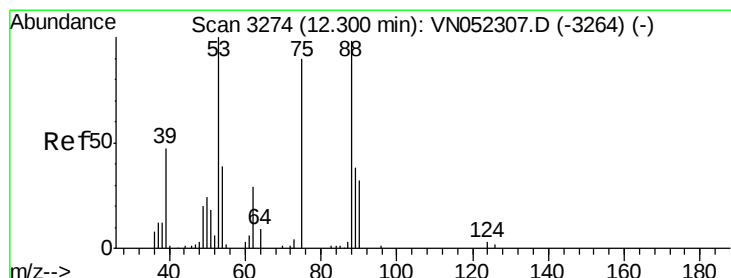
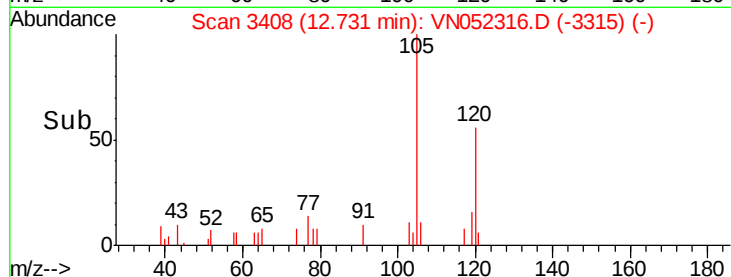
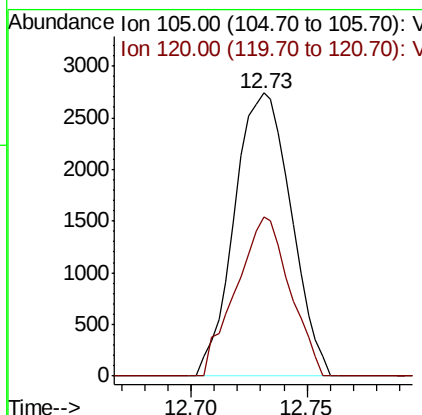
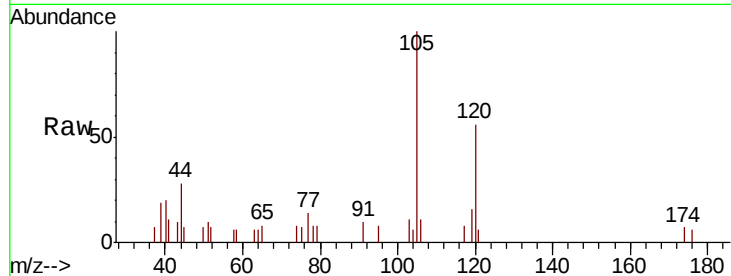




#80
 1,3,5-Trimethylbenzene
 Concen: 0.531 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

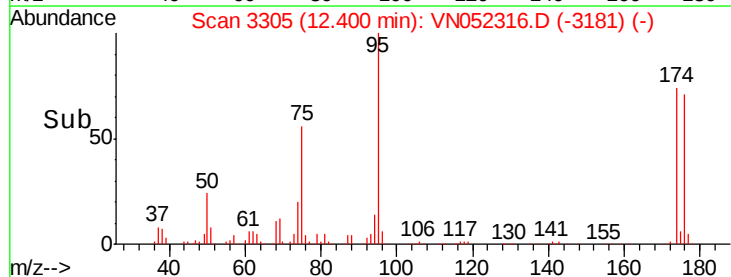
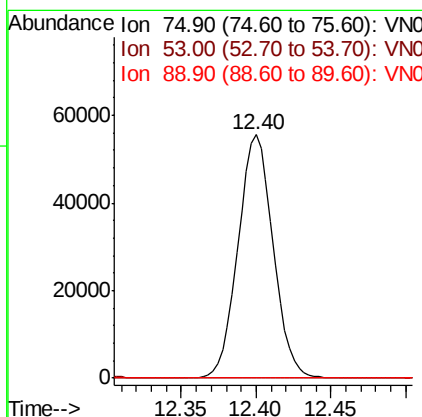
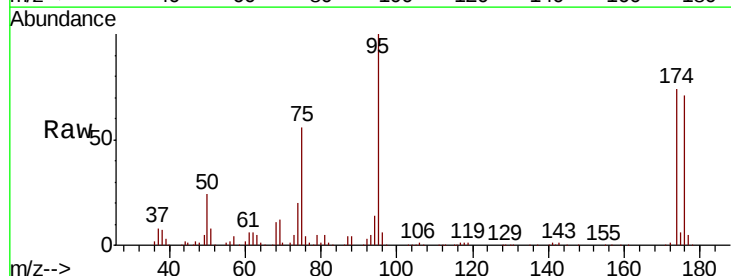
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

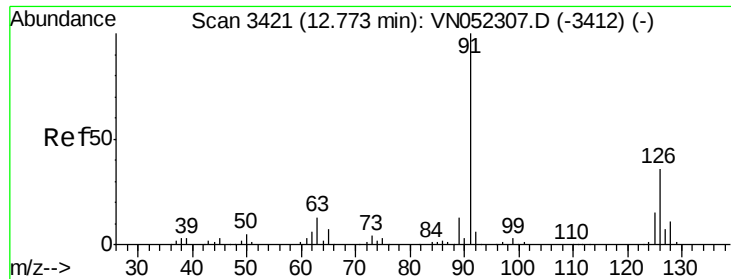
Tot Ion:105 Resp: 4645
 Ion Ratio Lower Upper
 105 100
 120 53.4 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.560 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 75 Resp: 90657
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#





#82

4-Chlorotoluene

Concen: 0.653 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

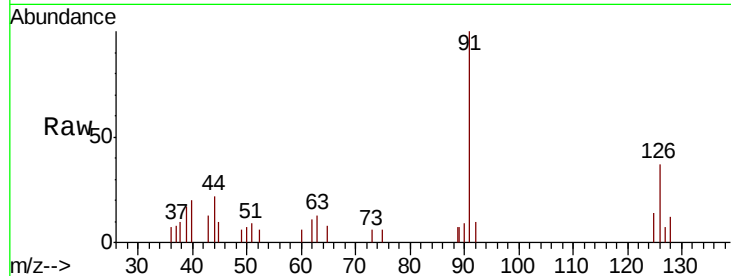
MDL-WATER-03-QT4-2018

Tot Ion: 91 Resp: 5029

Ion Ratio Lower Upper

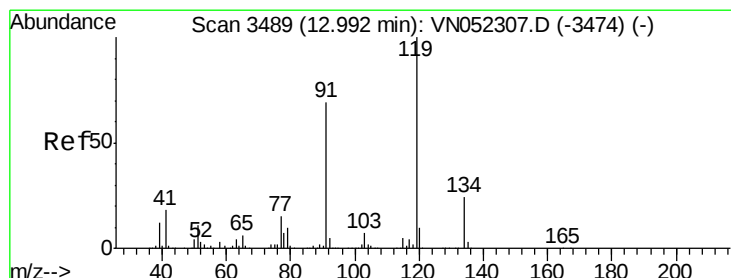
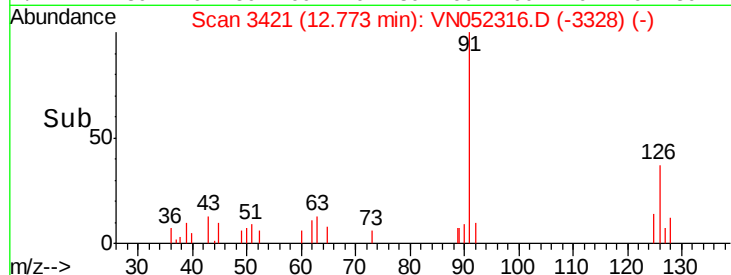
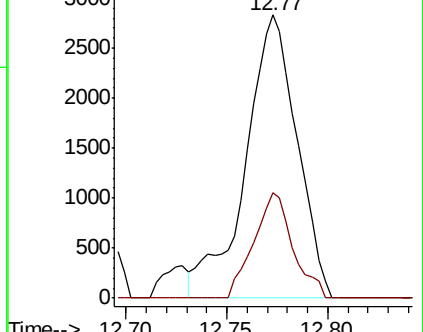
91 100

126 28.3 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VN052307.D (-3412) (-)

Ion 125.90 (125.60 to 126.60): VN052307.D (-3412) (-)



#83

tert-Butylbenzene

Concen: 0.576 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

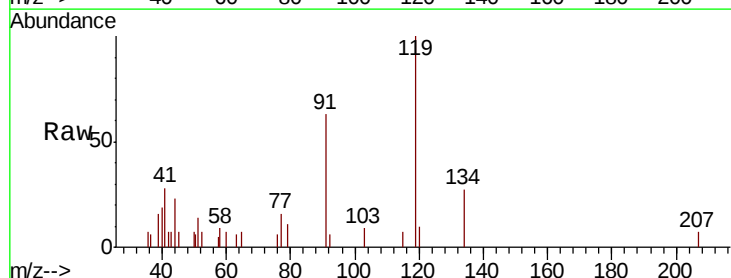
Tgt Ion: 119 Resp: 4454

Ion Ratio Lower Upper

119 100

91 68.3 33.8 101.3

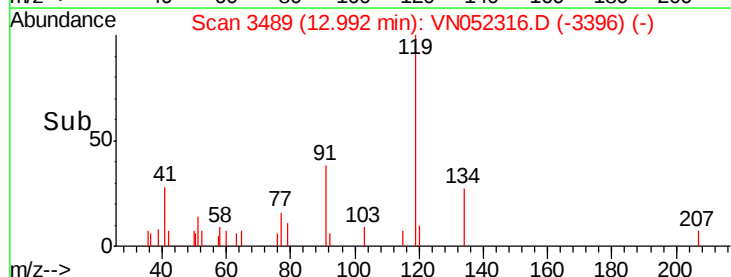
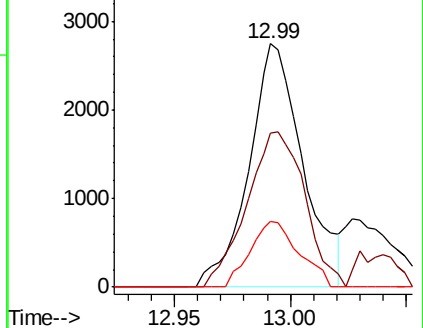
134 24.3 11.9 35.9

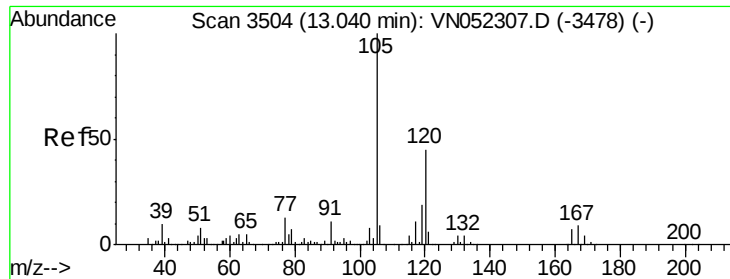


Abundance Ion 119.00 (118.70 to 119.70): VN052307.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN052307.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN052307.D (-3474) (-)





#84

1,2,4-Trimethylbenzene

Concen: 0.551 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

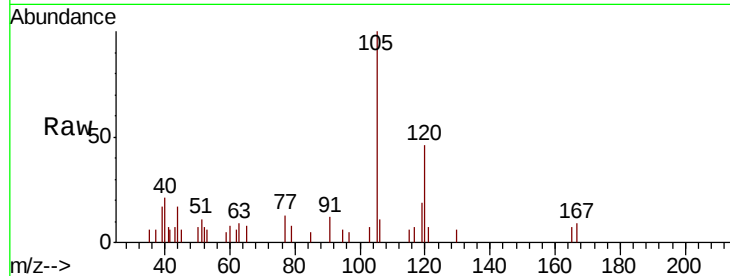
MDL-WATER-03-QT4-2018

Tot Ion:105 Resp: 4841

Ion Ratio Lower Upper

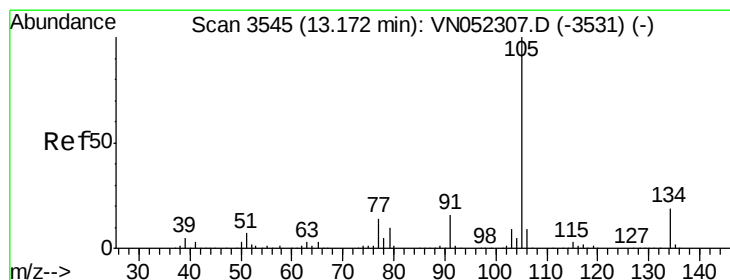
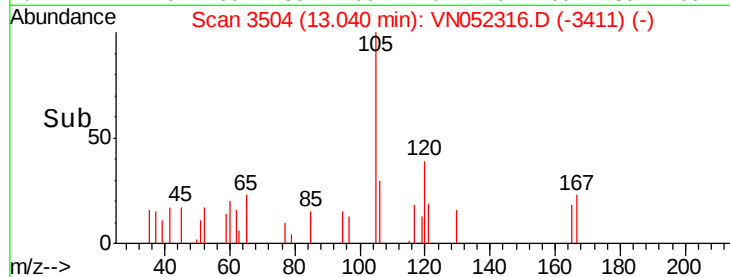
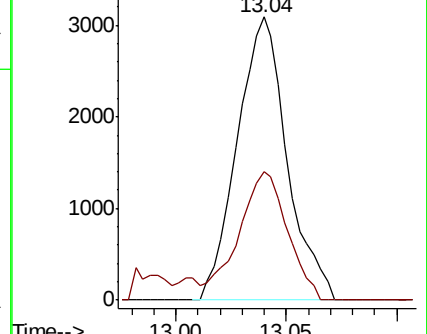
105 100

120 44.6 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: 0.515 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052316.D

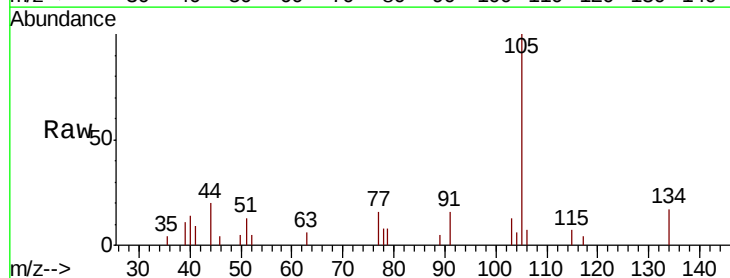
Acq: 14 Nov 2018 16:42

Tgt Ion:105 Resp: 5422

Ion Ratio Lower Upper

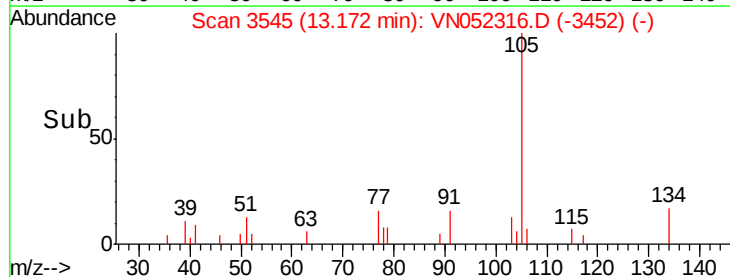
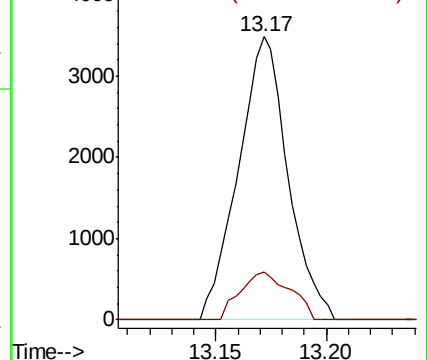
105 100

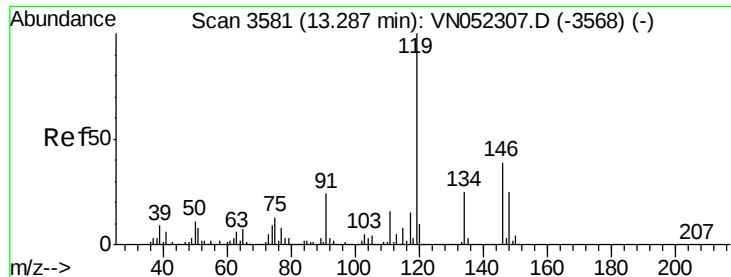
134 16.9 9.5 28.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

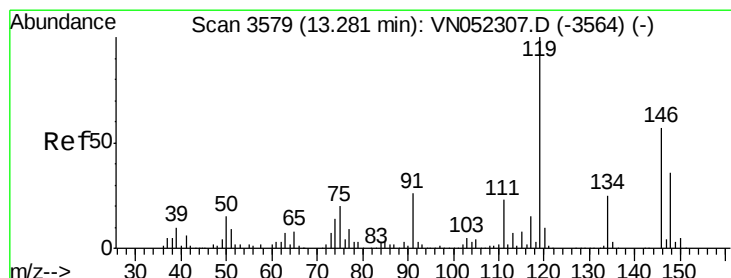
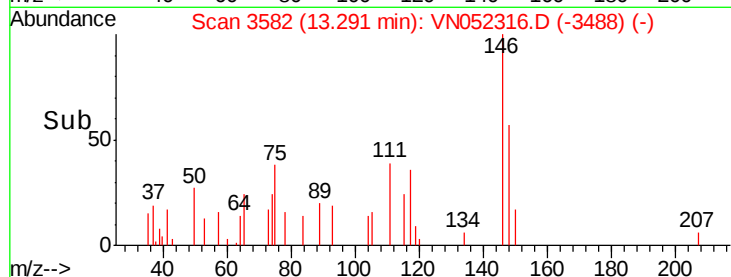
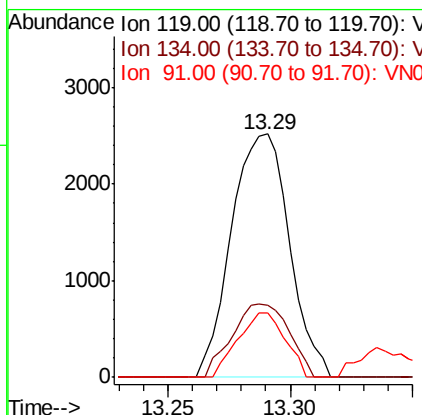
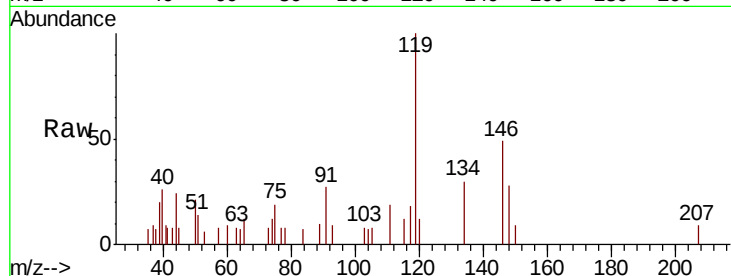




#86
 p-Isopropyltoluene
 Concen: 0.465 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

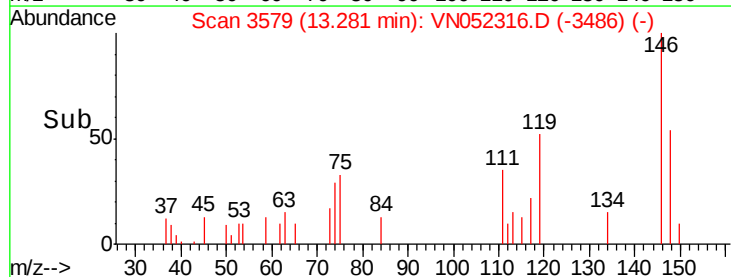
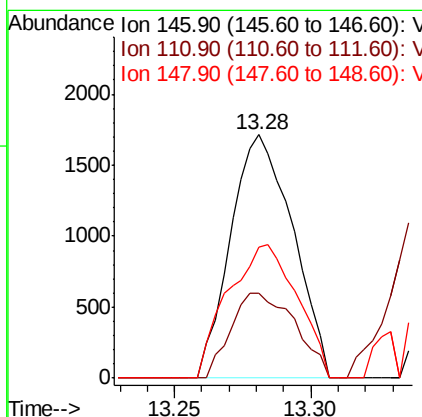
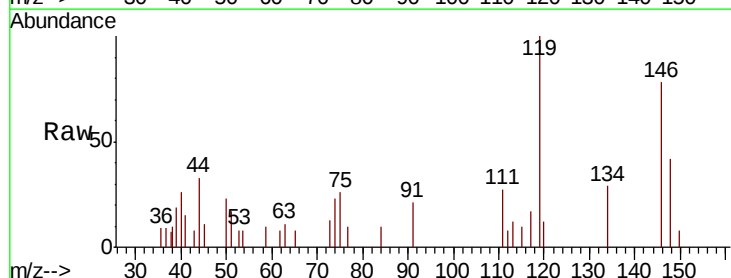
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

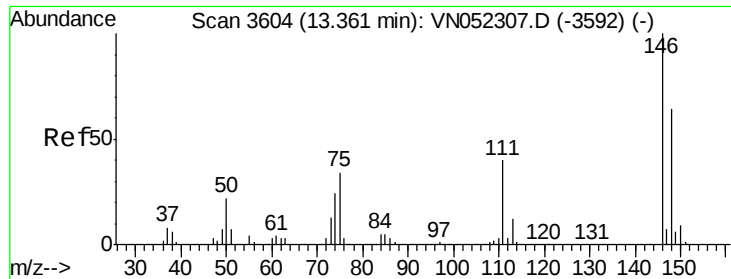
Tot Ion:119 Resp: 4150
 Ion Ratio Lower Upper
 119 100
 134 29.7 13.0 38.9
 91 21.6 12.4 37.0



#87
 1,3-Dichlorobenzene
 Concen: 0.597 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion:146 Resp: 2716
 Ion Ratio Lower Upper
 146 100
 111 35.9 20.3 61.0
 148 61.0 31.8 95.4

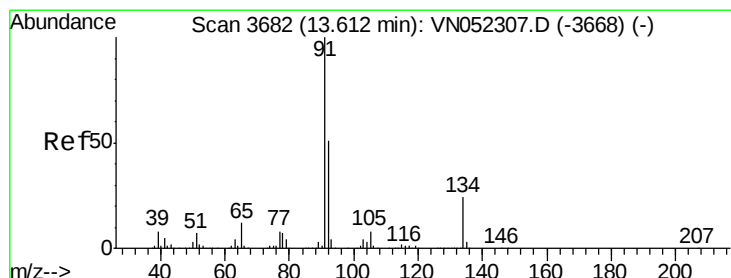
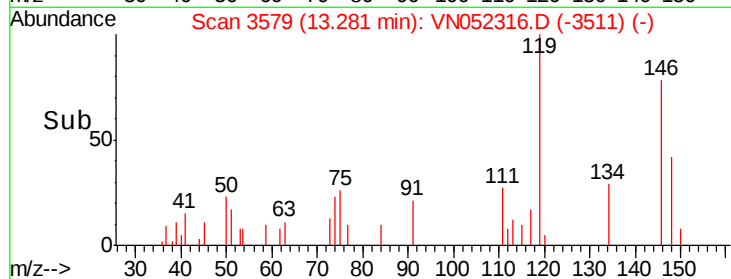
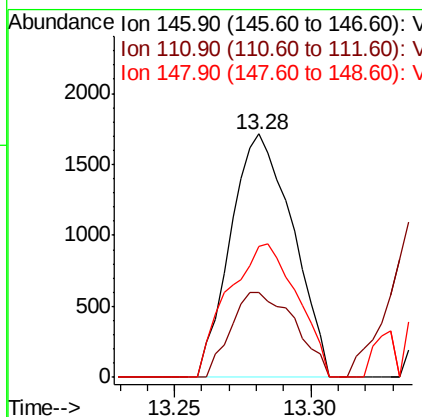
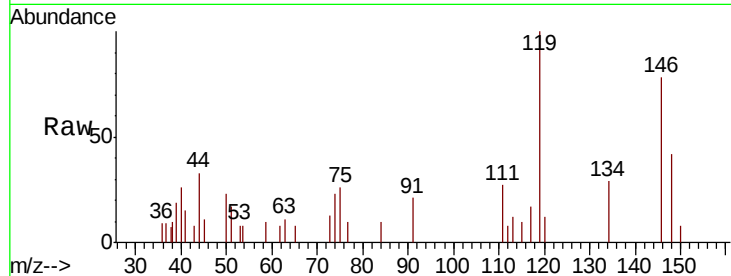




#88
 1,4-Dichlorobenzene
 Concen: 0.601 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.08 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

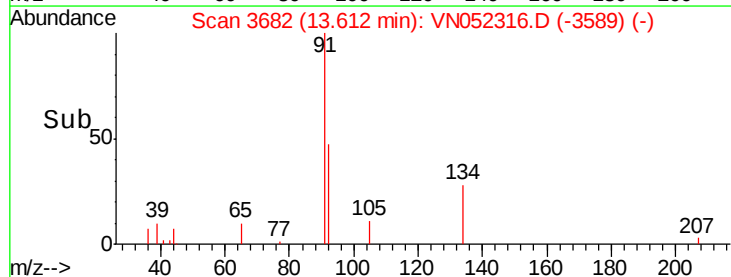
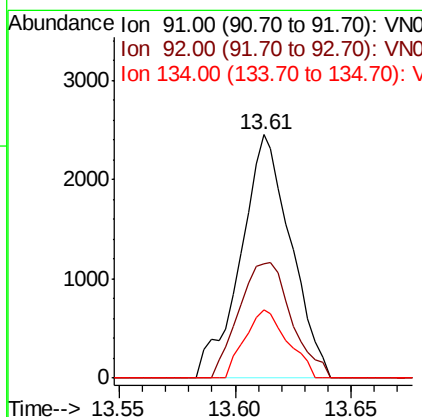
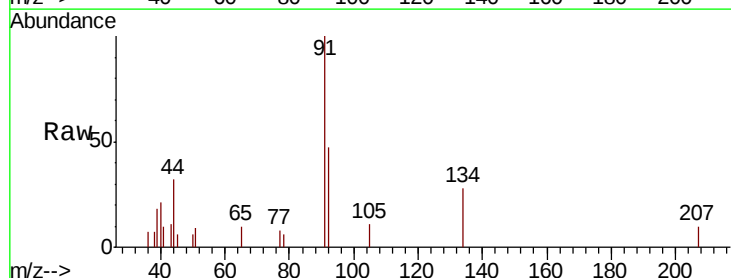
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2018

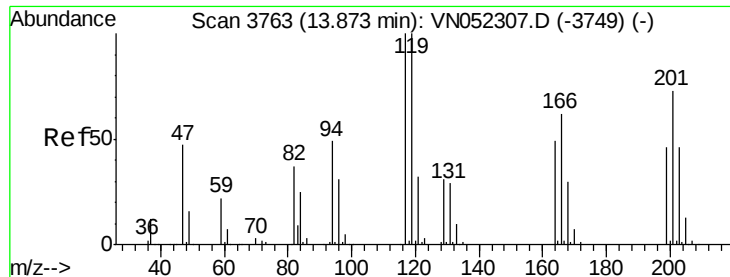
Tot Ion:146 Resp: 2716
 Ion Ratio Lower Upper
 146 100
 111 35.9 20.6 61.8
 148 61.0 32.4 97.2



#89
 n-Butylbenzene
 Concen: 0.481 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 91 Resp: 3685
 Ion Ratio Lower Upper
 91 100
 92 49.7 25.4 76.2
 134 23.9 12.2 36.4

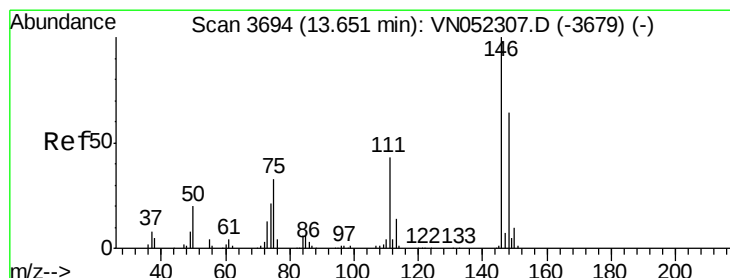
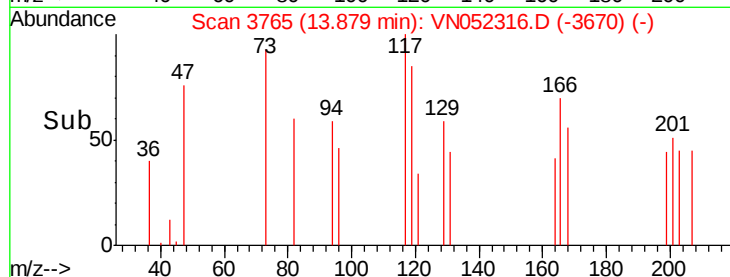
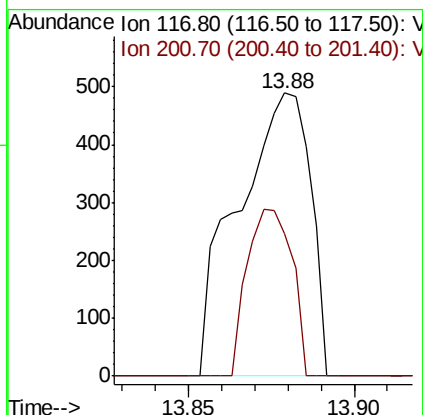
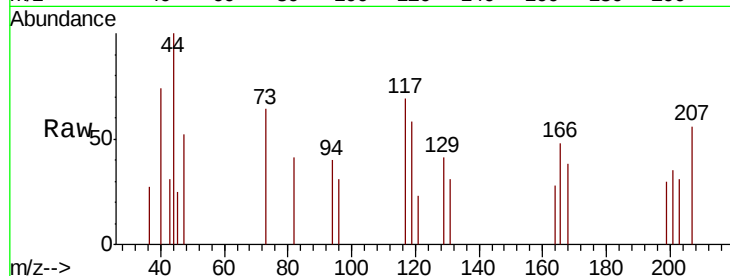




#90
Hexachloroethane
Concen: 0.473 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.01 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

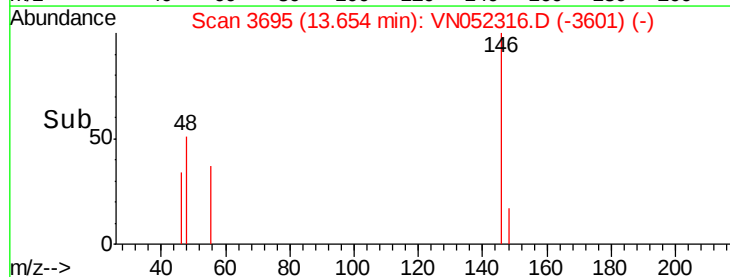
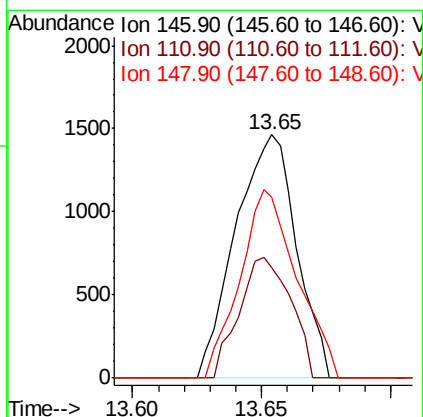
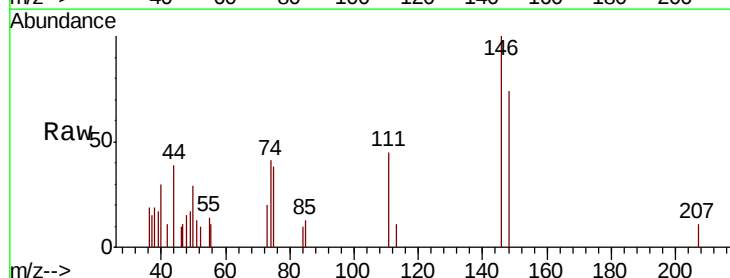
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2018

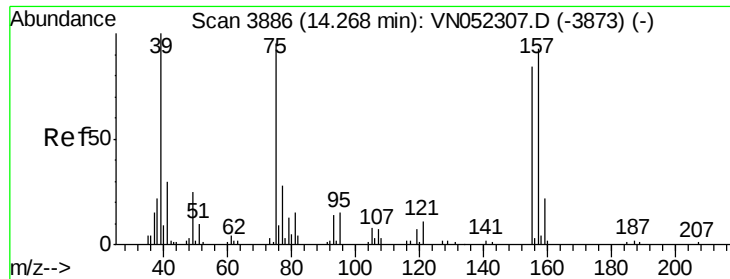
Tot Ion:117 Resp: 747
Ion Ratio Lower Upper
117 100
201 36.1 35.3 105.9



#91
1,2-Dichlorobenzene
Concen: 0.545 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN052316.D
Acq: 14 Nov 2018 16:42

Tgt Ion:146 Resp: 2401
Ion Ratio Lower Upper
146 100
111 42.1 21.3 63.9
148 72.8 31.6 94.8

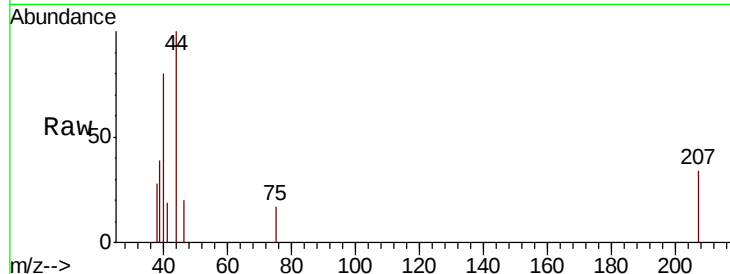




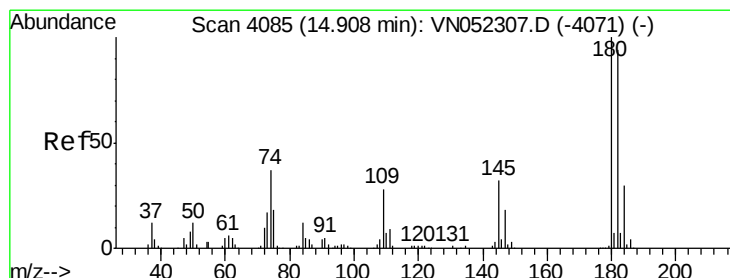
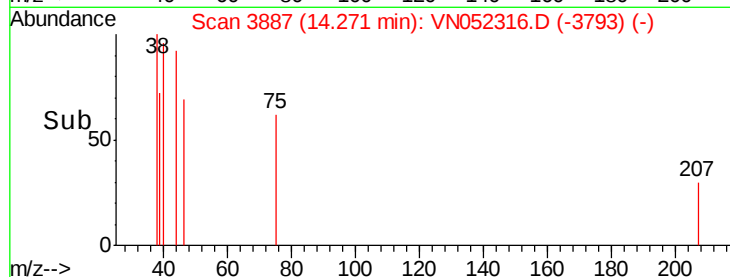
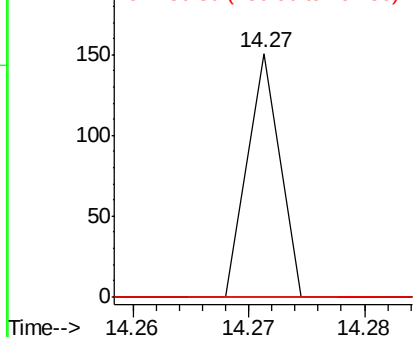
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.074 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

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

Tot Ion: 75 Resp: 29
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.4 127.3#
 157 0.0 49.6 149.0#

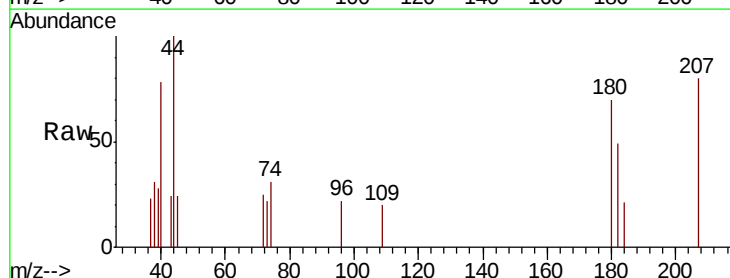


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3873) (-)
 Ion 154.80 (154.50 to 155.50): VN052307.D (-3873) (-)
 Ion 156.80 (156.50 to 157.50): VN052307.D (-3873) (-)

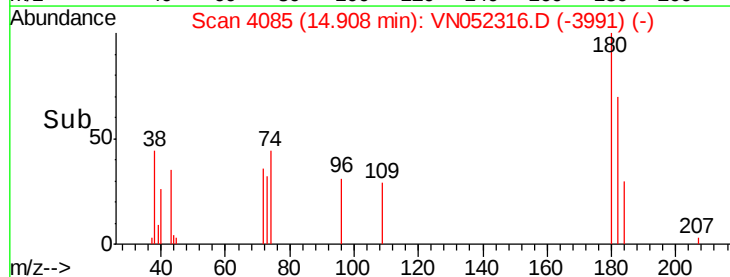
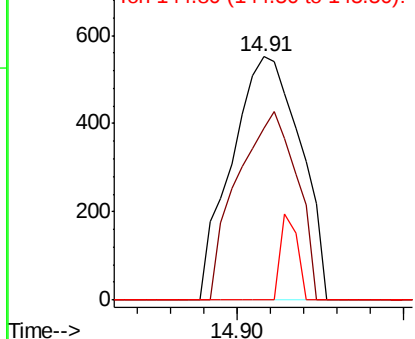


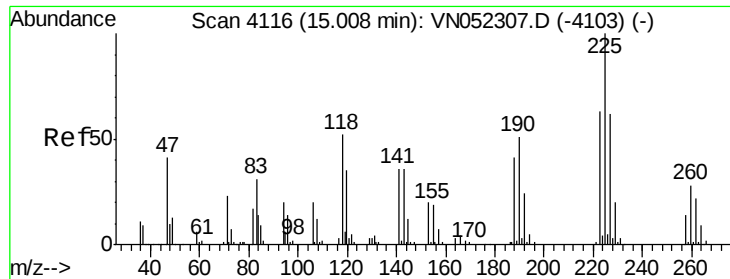
#93
 1,2,4-Trichlorobenzene
 Concen: 2.628 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

Tgt Ion: 180 Resp: 797
 Ion Ratio Lower Upper
 180 100
 182 66.8 47.6 142.9
 145 8.4 15.5 46.5#



Abundance Ion 179.80 (179.50 to 180.50): VN052307.D (-4071) (-)
 Ion 181.80 (181.50 to 182.50): VN052307.D (-4071) (-)
 Ion 144.80 (144.50 to 145.50): VN052307.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: 0.569 ug/l

RT: 15.00 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2018

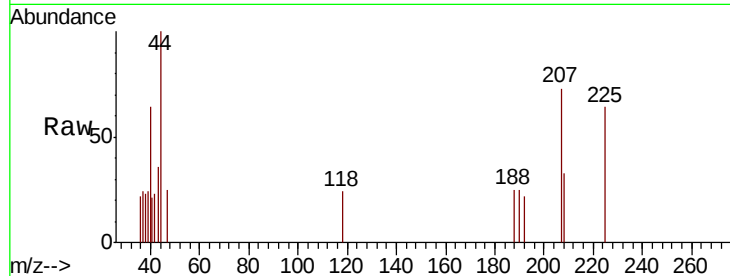
Tot Ion:225 Resp: 574

Ion Ratio Lower Upper

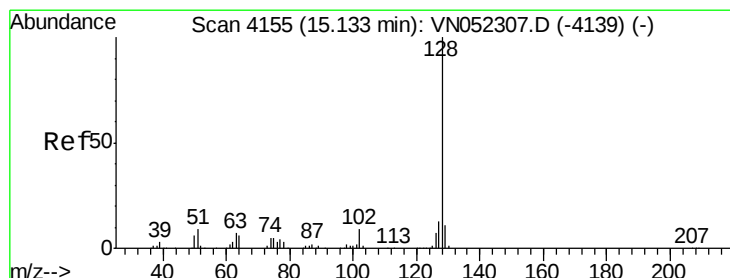
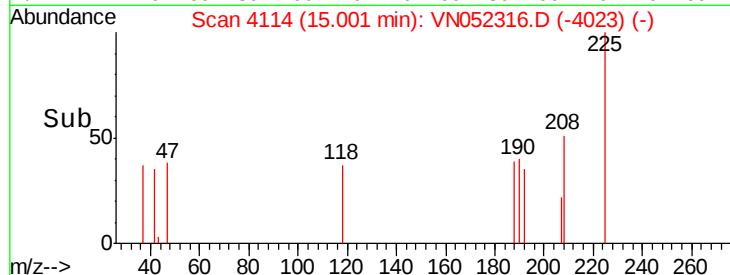
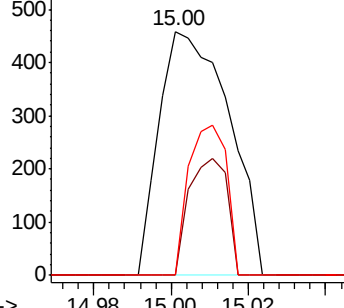
225 100

223 26.1 31.9 95.5#

227 33.4 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: 2.924 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052316.D

Acq: 14 Nov 2018 16:42

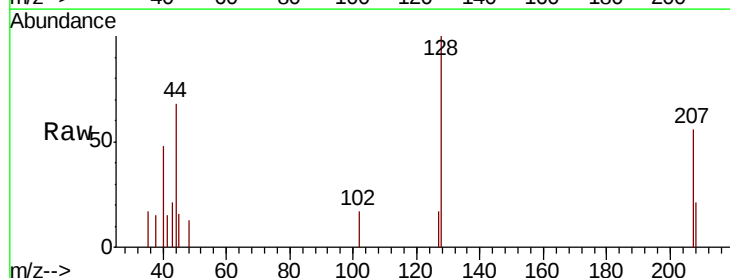
Tgt Ion:128 Resp: 1631

Ion Ratio Lower Upper

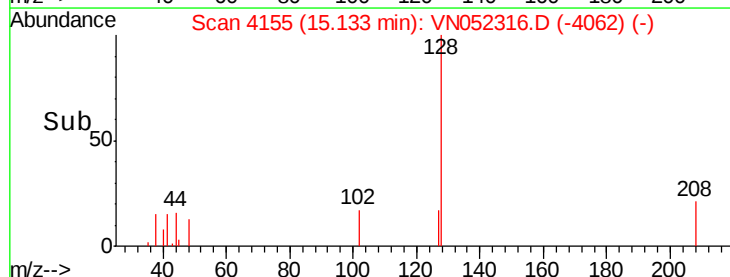
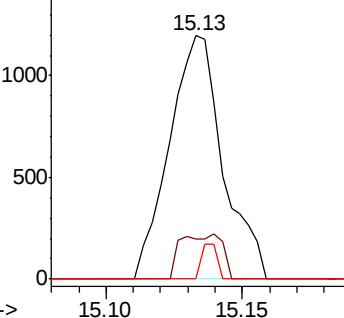
128 100

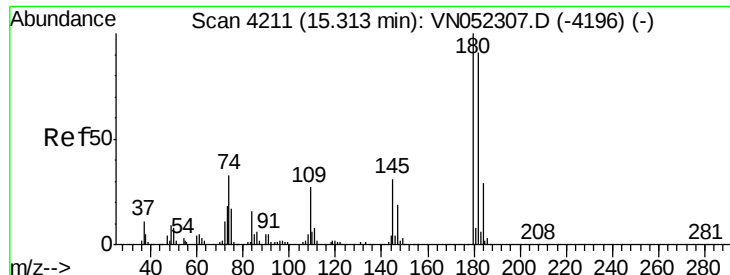
127 14.2 10.4 15.6

129 4.0 8.6 13.0#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.462 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN052316.D
 Acq: 14 Nov 2018 16:42

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	112.7	46.5	139.3
145	17.3	16.4	49.2

