

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051866.D
 Acq On : 15 Oct 2018 11:38
 Operator : MD\SY
 Sample : J5512-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:44:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	89897	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	499412	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	408924	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	166684	30.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.57%
60) 4-Bromofluorobenzene	12.40	95	140286	23.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	79.30%
63) Toluene-d8	10.09	98	565654	31.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.20%

Target Compounds

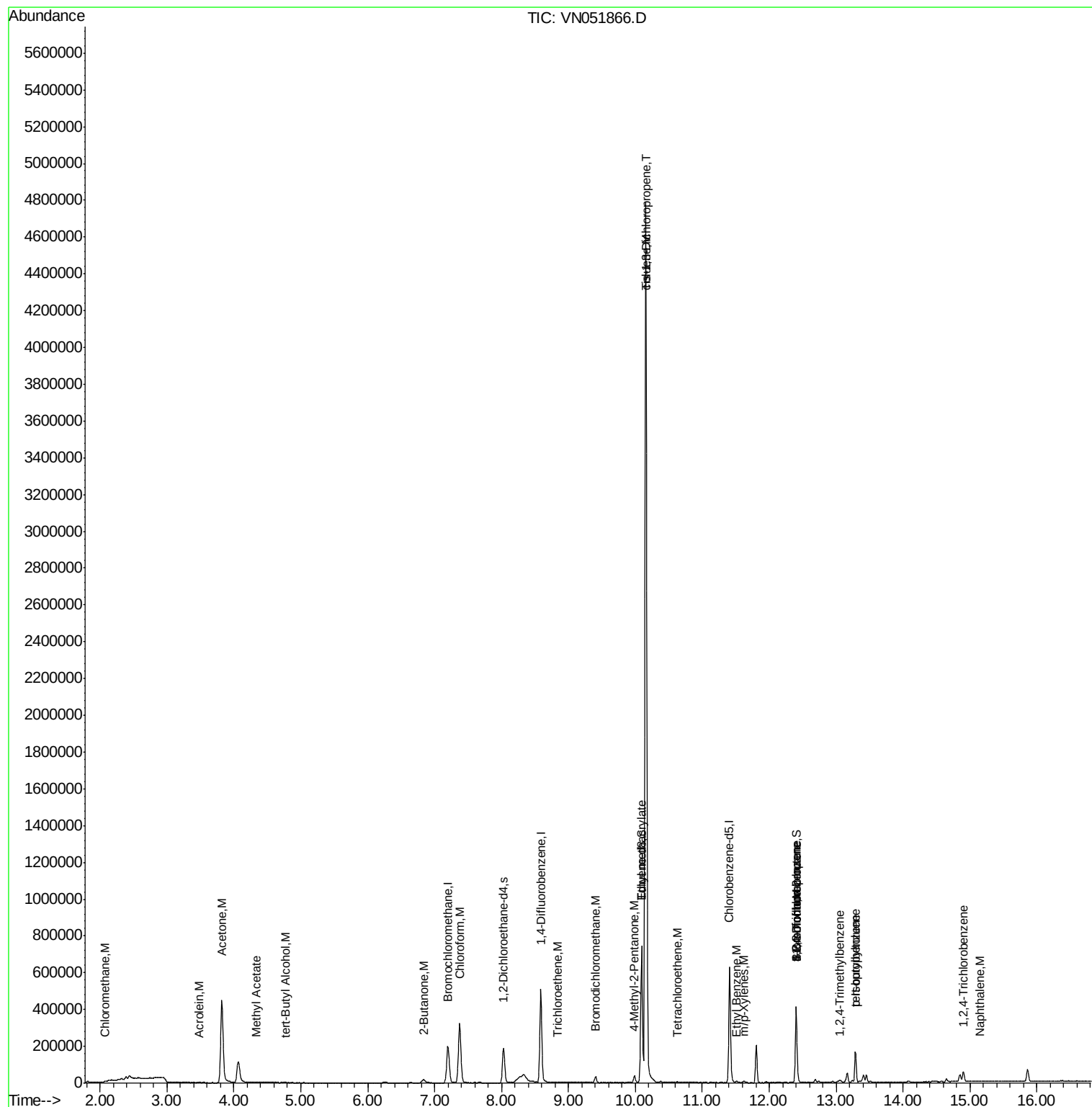
					Ovalue	
3) Chloromethane	2.06	50	874	0.237	ug/l #	86
12) Methyl Acetate	4.34	43	2652	1.032	ug/l	95
13) Acrolein	3.49	56	70	0.413	ug/l	84
15) Acetone	3.82	58	248211	874.109	ug/l	96
23) tert-Butyl Alcohol	4.78	59	184	0.608	ug/l #	100
25) Chloroform	7.37	83	342638	37.769	ug/l	97
30) 2-Butanone	6.84	43	10625	7.897	ug/l #	85
37) Trichloroethene	8.84	130	1220	0.206	ug/l #	31
41) Bromodichloromethane	9.41	83	22783	3.314	ug/l #	83
49) cis-1,3-Dichloropropene	10.16	75	24955	3.377	ug/l #	1
51) Ethyl methacrylate	10.09	69	1595	0.303	ug/l	82
56) Bromoform	12.40	173	1423	0.379	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	26161	9.560	ug/l #	93
61) Tetrachloroethene	10.63	164	1111	0.212	ug/l #	81
62) Toluene	10.16	91	3902759	192.114	ug/l	99
66) Ethyl Benzene	11.51	91	5694	0.254	ug/l	94
67) m/p-Xylenes	11.61	106	2575	0.283	ug/l #	43
72) 1,2,3-Trichloropropane	12.40	75	72906	19.611	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	72906	59.296	ug/l #	12
79) tert-butylbenzene	13.29	119	100297	5.511	ug/l	60
80) 1,2,4-Trimethylbenzene	13.04	105	4622	0.234	ug/l	93
82) p-Isopropyltoluene	13.29	119	100297	4.708	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	458	7.796	ug/l #	85
91) Naphthalene	15.13	128	2706	8.729	ug/l #	81

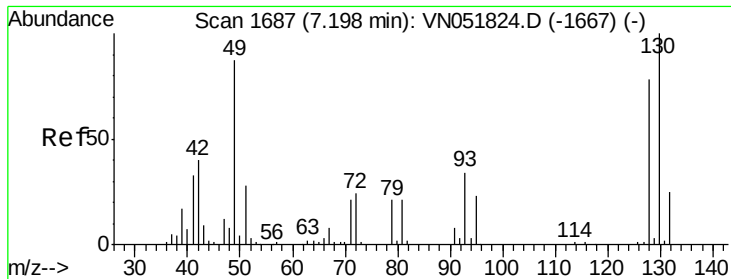
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampled :

Quant Time: Oct 16 00:44:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
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QLast Update : Fri Oct 12 10:23:44 2018
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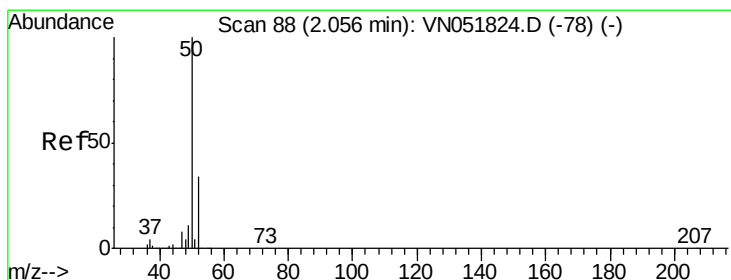
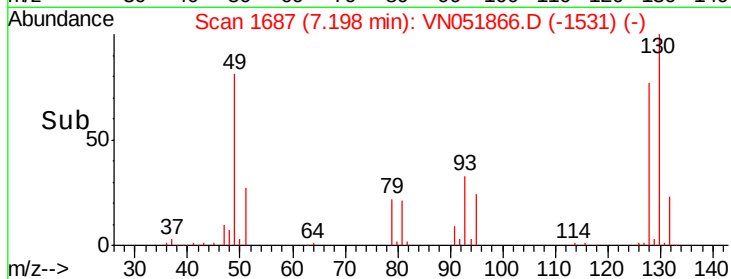
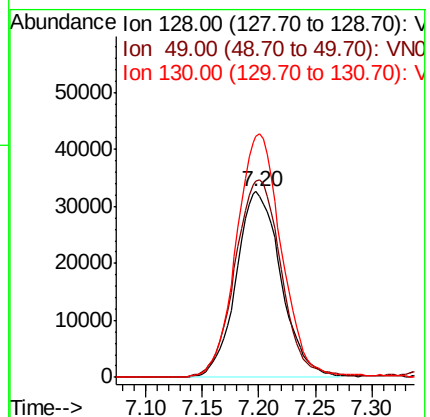
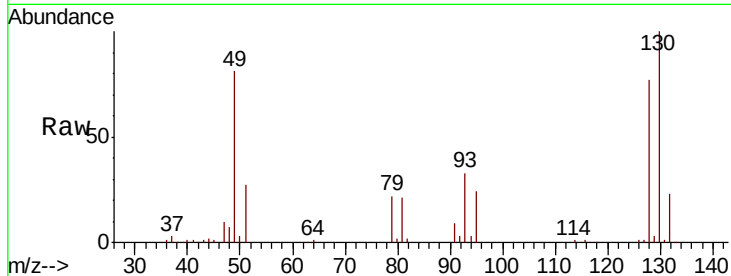




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

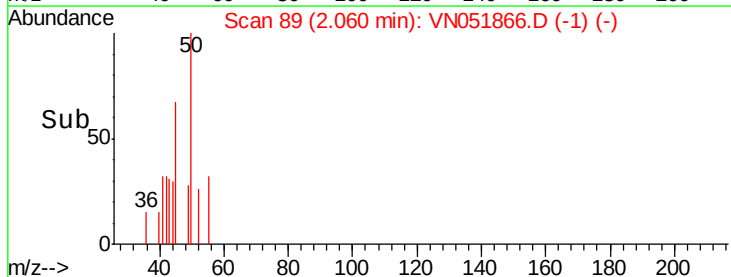
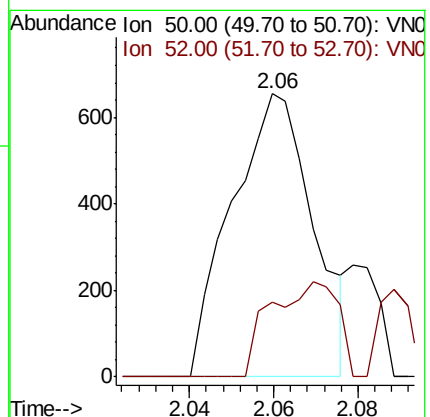
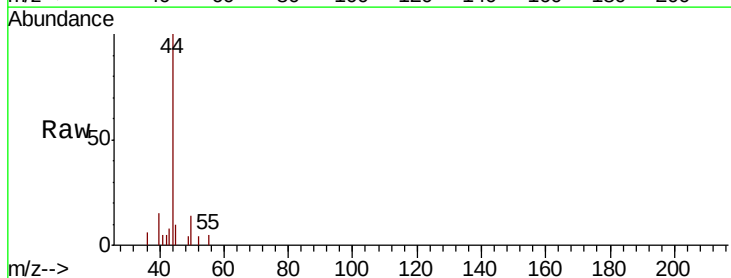
Instrument :
MSVOA_N
ClientSampled :

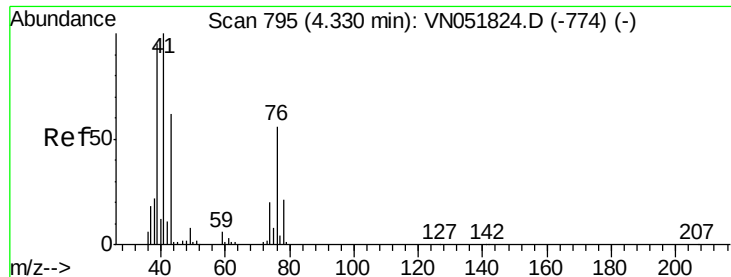
Tot Ion:128 Resp: 89897
Ion Ratio Lower Upper
128 100
49 109.7 0.0 403.3
130 131.0 0.0 326.0



#3
Chloromethane
Concen: 0.237 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

Tgt Ion: 50 Resp: 874
Ion Ratio Lower Upper
50 100
52 26.1 27.2 40.8#

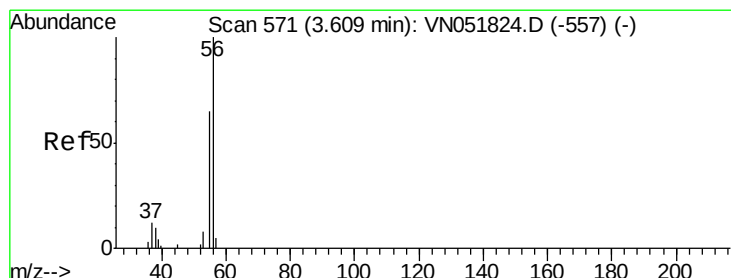
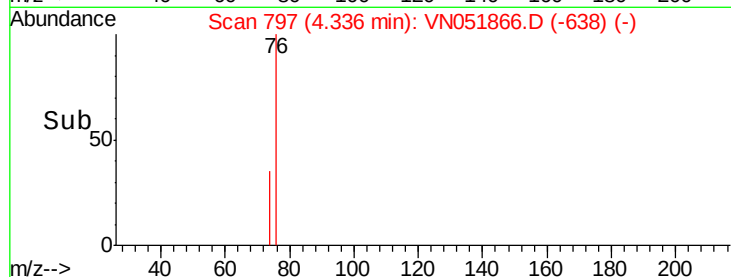
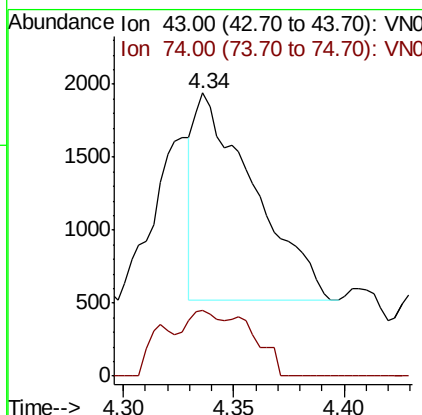
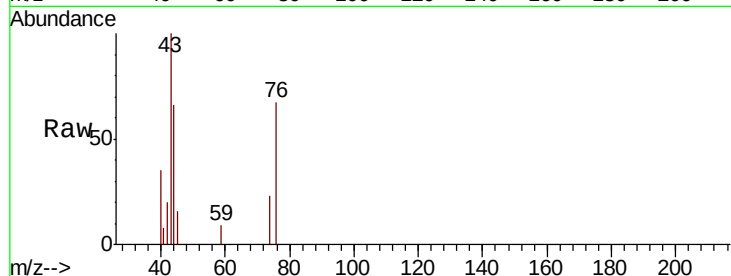




#12
Methvl Acetate
Concen: 1.032 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

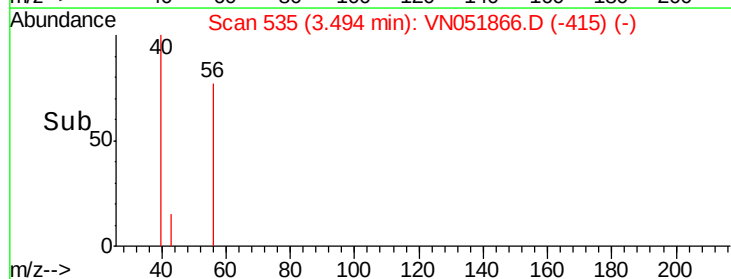
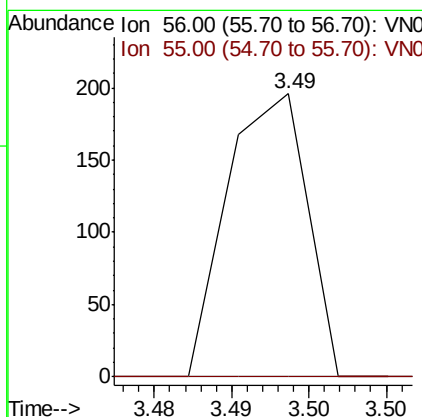
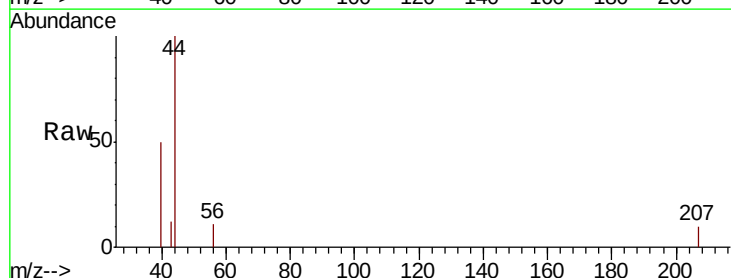
Instrument :
MSVOA_N
ClientSampled :

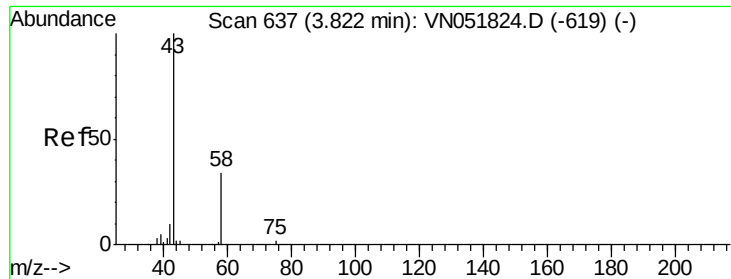
Tot Ion: 43 Resp: 2652
Ion Ratio Lower Upper
43 100
74 29.6 21.8 32.6



#13
Acrolein
Concen: 0.413 ug/l
RT: 3.49 min Scan# 535
Delta R.T. -0.12 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

Tgt Ion: 56 Resp: 70
Ion Ratio Lower Upper
56 100
55 94.3 64.0 96.0

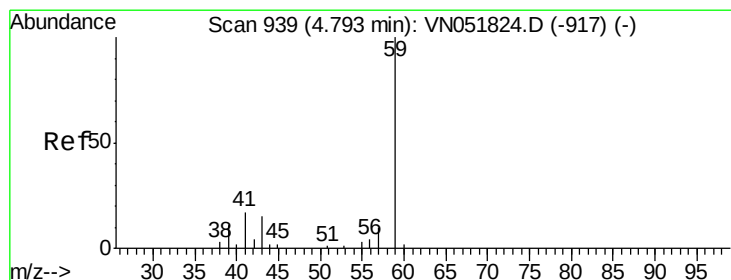
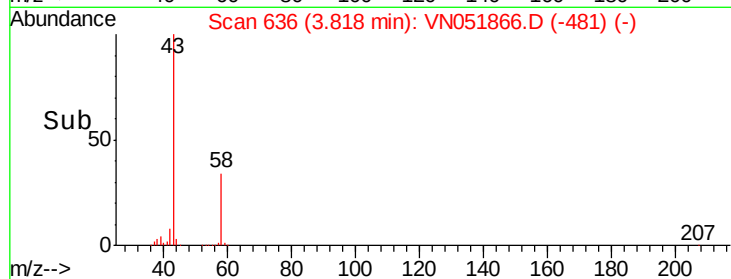
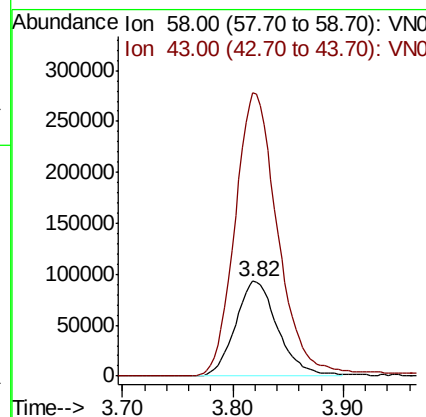
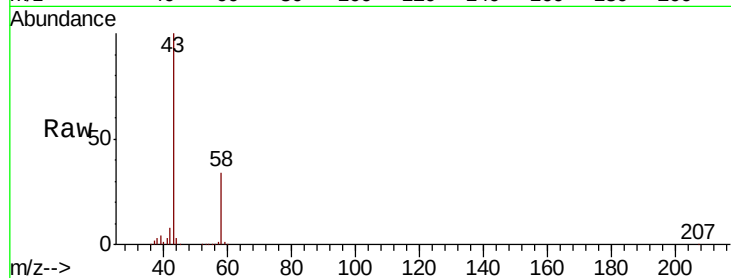




#15
Acetone
Concen: 874.109 ug/l
RT: 3.82 min Scan# 636
Delta R.T. -0.00 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

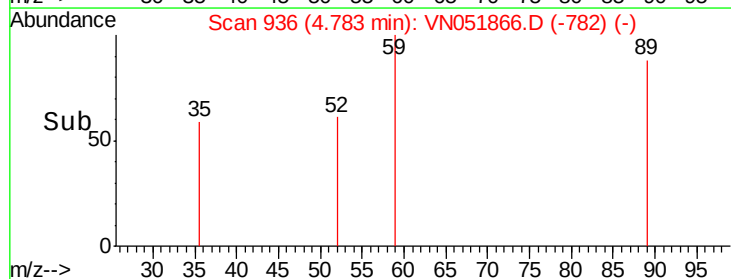
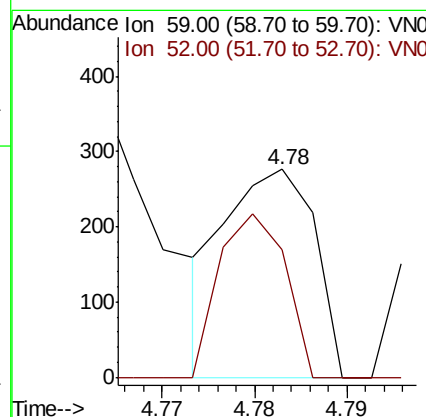
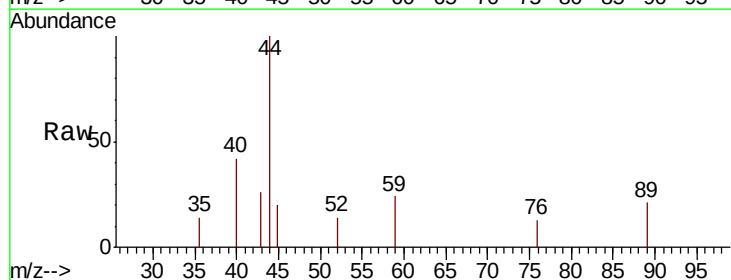
Instrument :
MSVOA_N
ClientSampled :

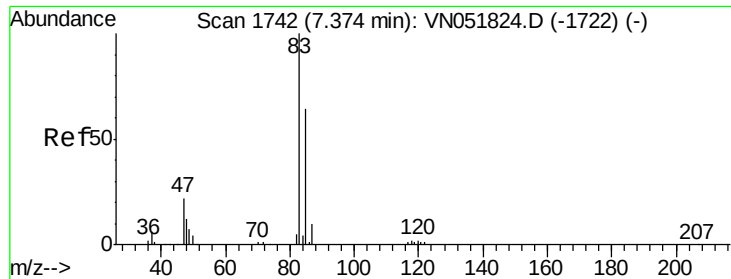
Tot Ion: 58 Resp: 248211
Ion Ratio Lower Upper
58 100
43 297.5 232.2 348.2



#23
tert-Butyl Alcohol
Concen: 0.608 ug/l
RT: 4.78 min Scan# 936
Delta R.T. -0.01 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

Tgt Ion: 59 Resp: 184
Ion Ratio Lower Upper
59 100
52 58.7 0.0 0.0#





#25

Chloroform

Concen: 37.769 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

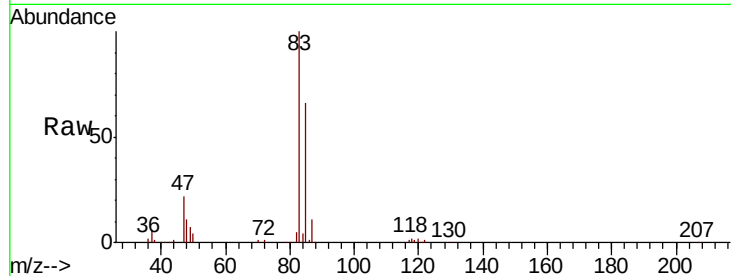
ClientSampled :

Tot Ion: 83 Resp: 342638

Ion Ratio Lower Upper

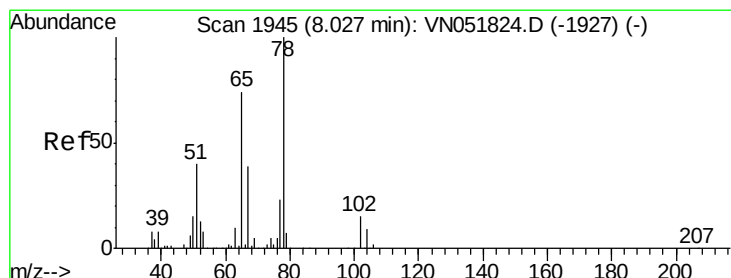
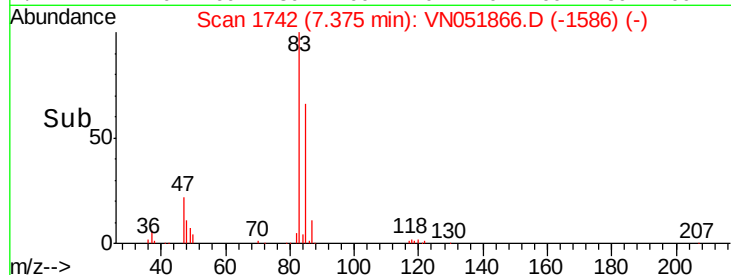
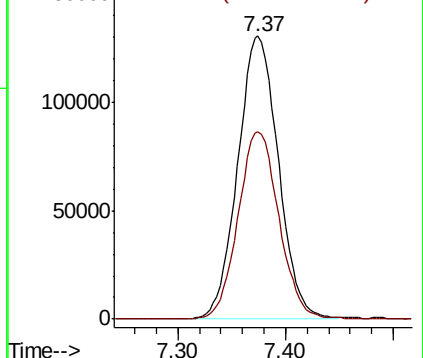
83 100

85 66.0 54.6 82.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051866.D

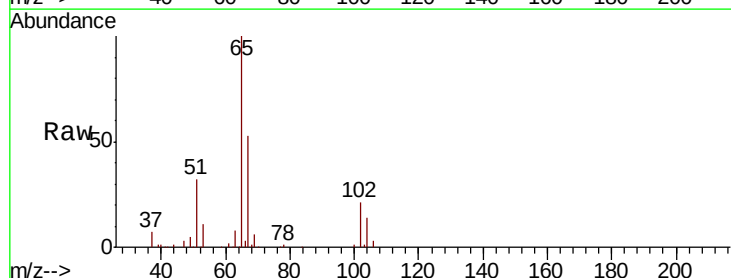
Acq: 15 Oct 2018 11:38

Tgt Ion: 65 Resp: 166684

Ion Ratio Lower Upper

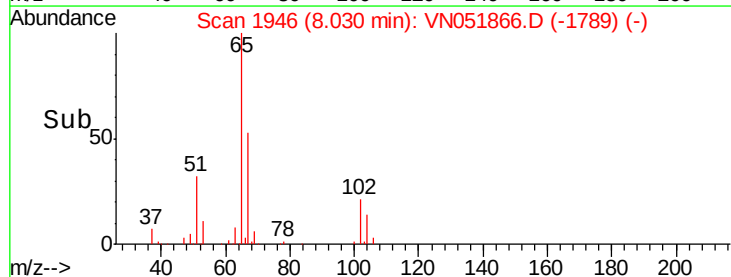
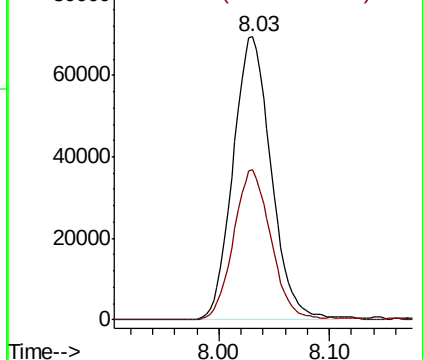
65 100

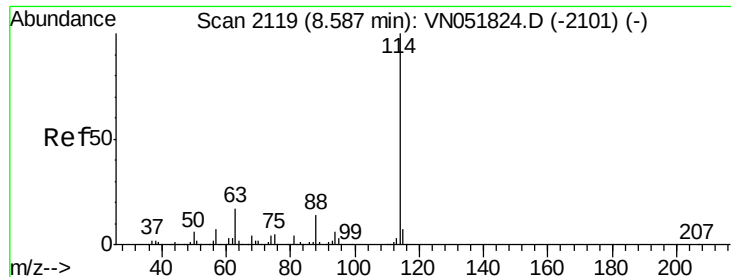
67 51.7 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

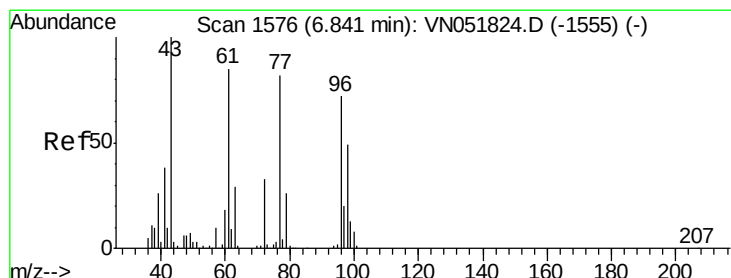
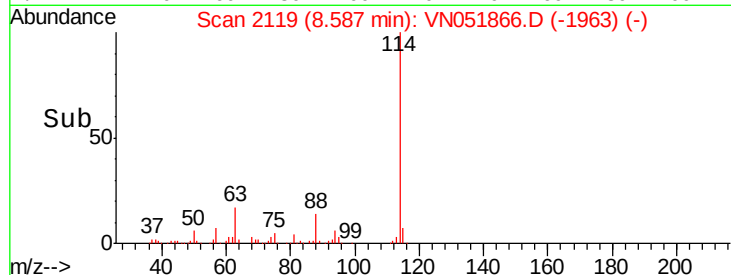
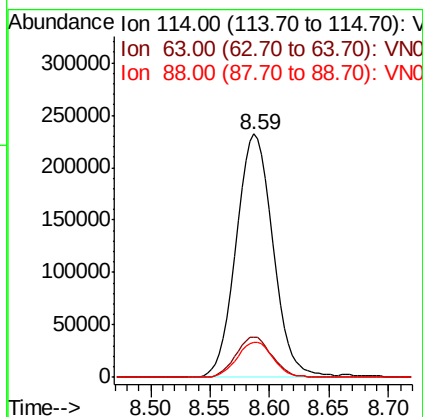
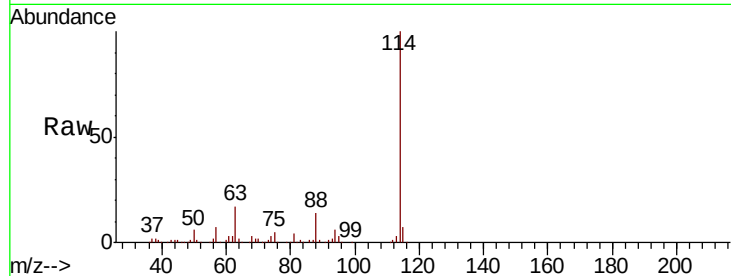




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051866.D
 Acq: 15 Oct 2018 11:38

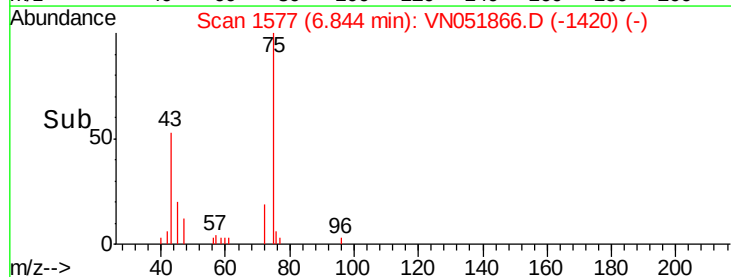
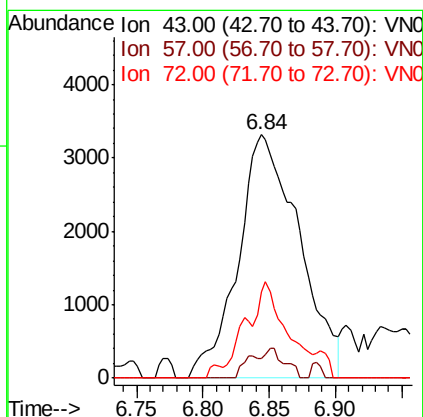
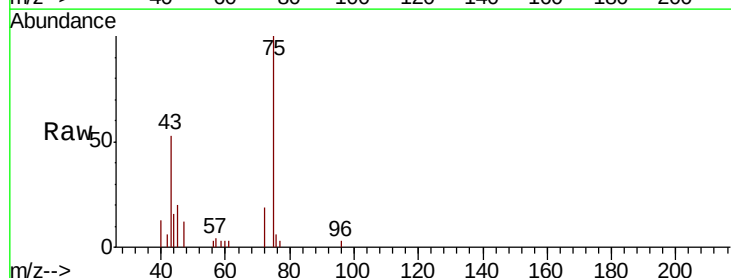
Instrument :
 MSVOA_N
 ClientSampleId :

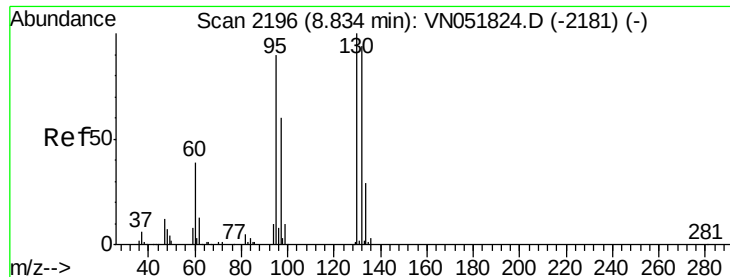
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.3	16.2	24.2
88	14.3	12.2	18.4



#30
 2-Butanone
 Concen: 7.897 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051866.D
 Acq: 15 Oct 2018 11:38

Tgt Ion	Ratio	Lower	Upper
43	100		
57	1.9	4.5	6.7#
72	18.5	21.5	32.3#





#37

Trichloroethene

Concen: 0.206 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

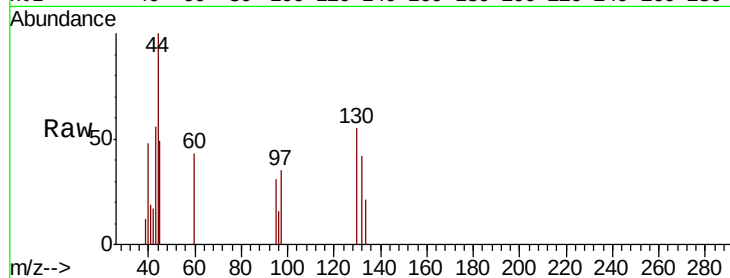
ClientSampleId :

Tot Ion:130 Resp: 1220

Ion Ratio Lower Upper

130 100

95 28.3 76.4 114.6#



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VNO

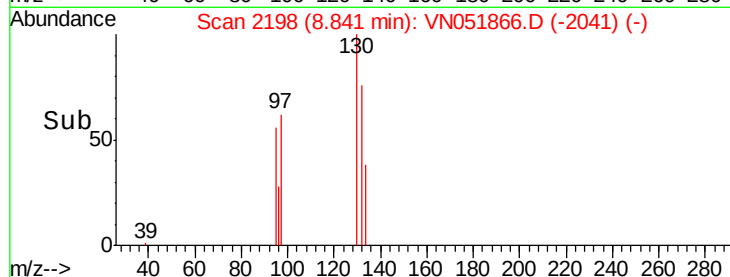
8.84

8.82

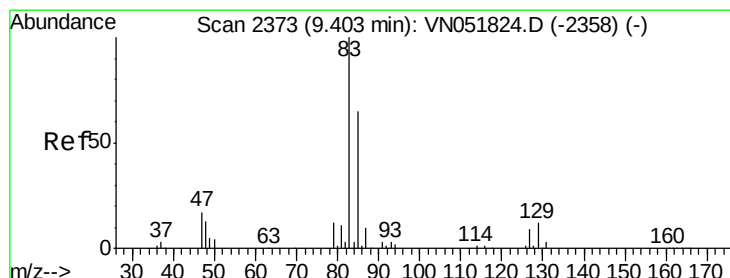
8.84

8.86

8.88



Time-->



#41

Bromodichloromethane

Concen: 3.314 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

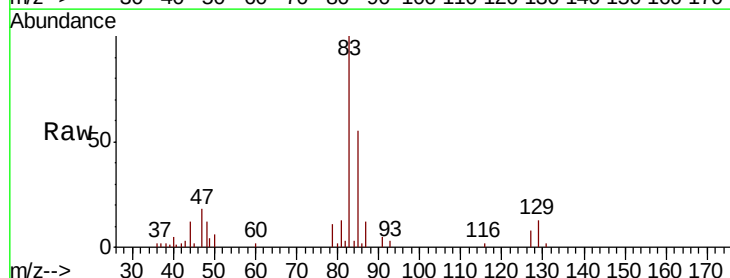
Tgt Ion: 83 Resp: 22783

Ion Ratio Lower Upper

83 100

85 54.7 55.7 83.5#

127 7.5 8.2 12.4#



Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 85.00 (84.70 to 85.70): VNO

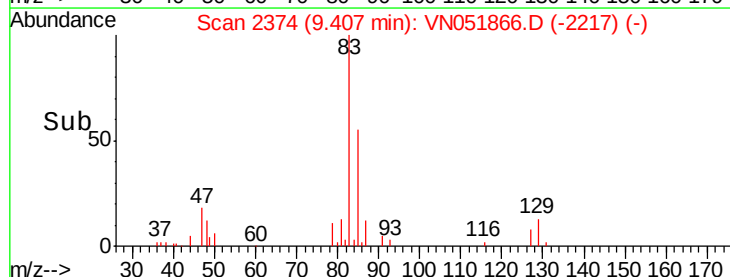
Ion 127.00 (126.70 to 127.70): VNO

9.41

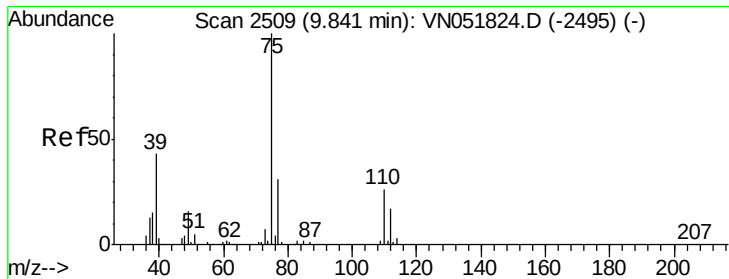
9.35

9.40

9.45



Time-->



#49

cis-1,3-Dichloropropene

Concen: 3.377 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.32 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

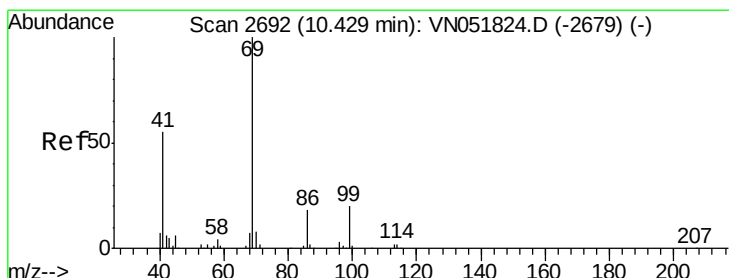
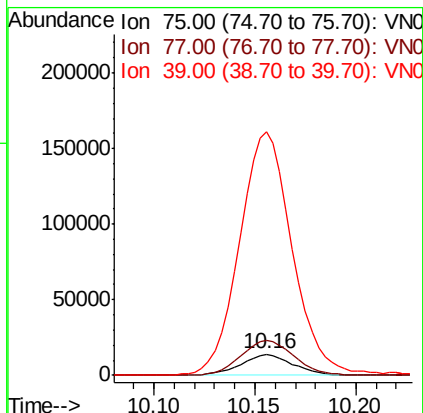
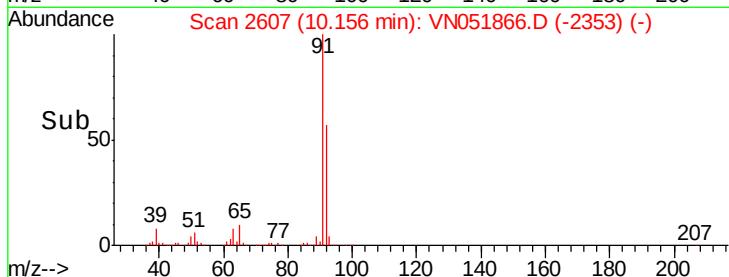
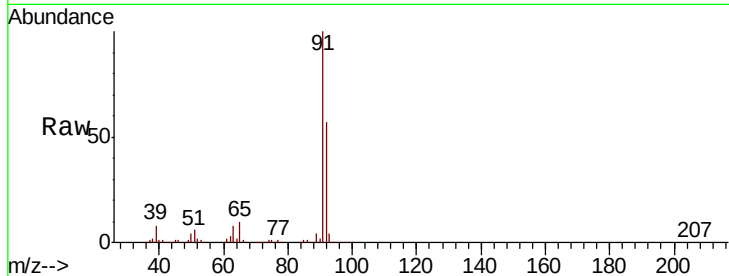
Tot Ion: 75 Resp: 24955

Ion Ratio Lower Upper

75 100

77 163.4 23.2 34.8#

39 1147.3 34.6 52.0#



#51

Ethyl methacrylate

Concen: 0.303 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

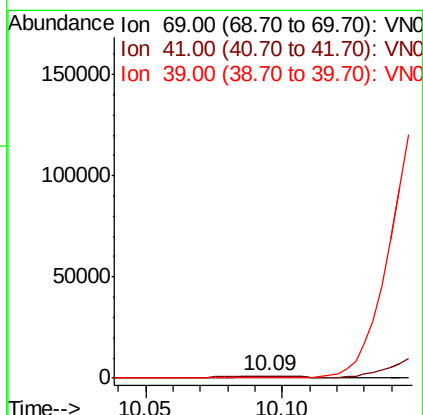
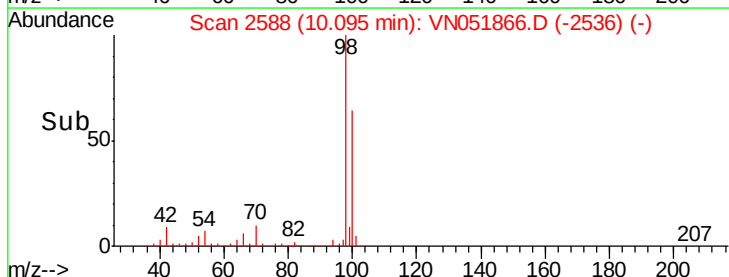
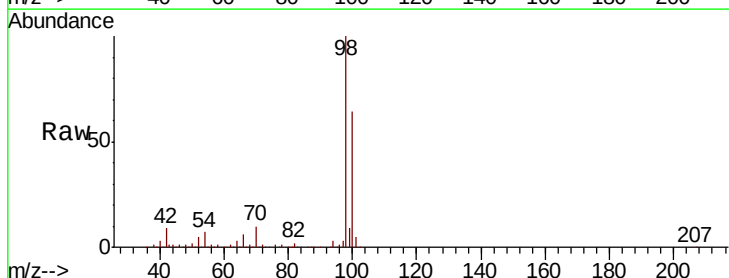
Tgt Ion: 69 Resp: 1595

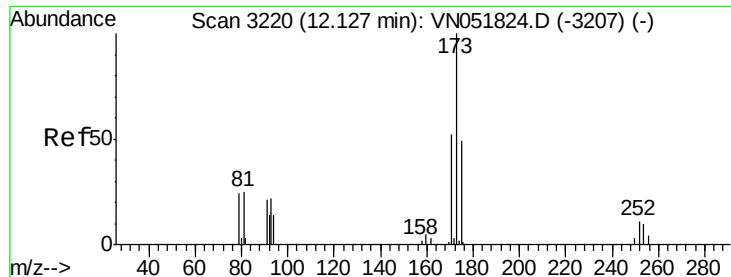
Ion Ratio Lower Upper

69 100

41 49.5 34.4 103.1

39 35.7 16.3 48.8

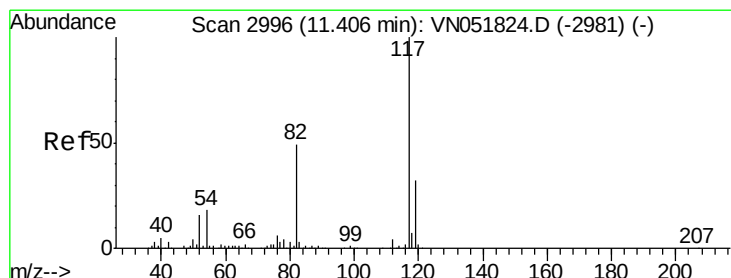
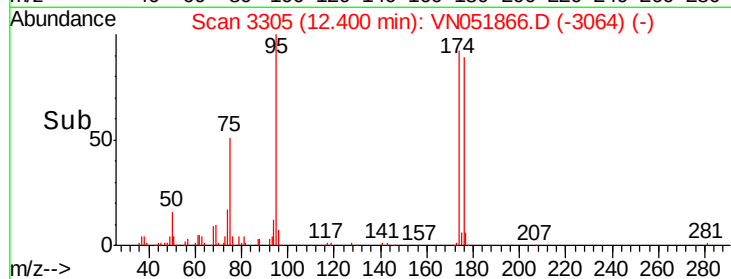
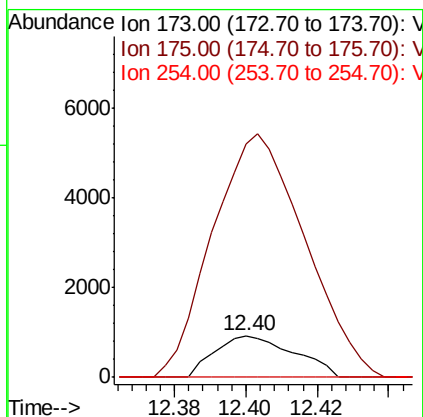
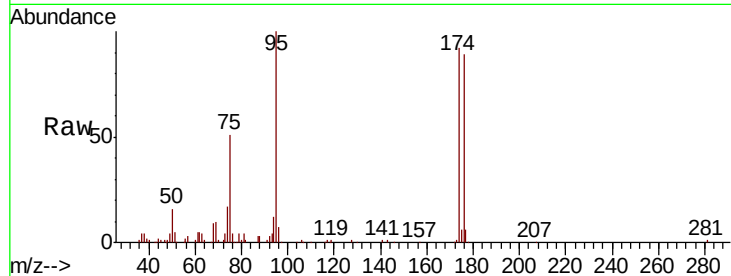




#56
Bromoform
Concen: 0.379 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

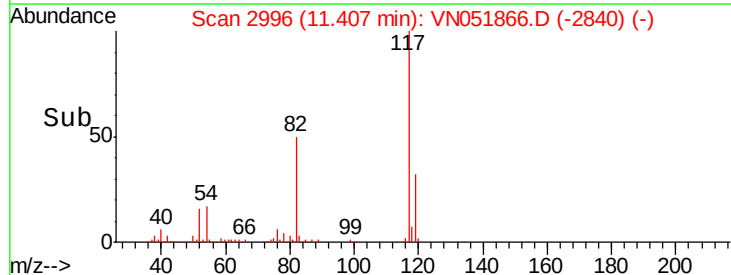
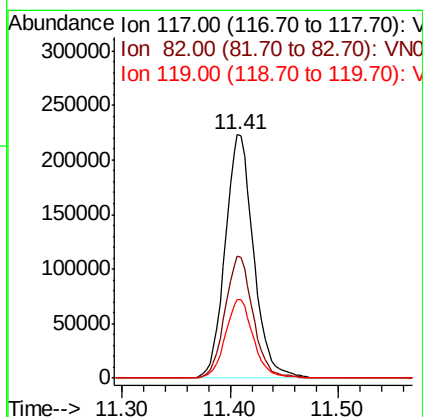
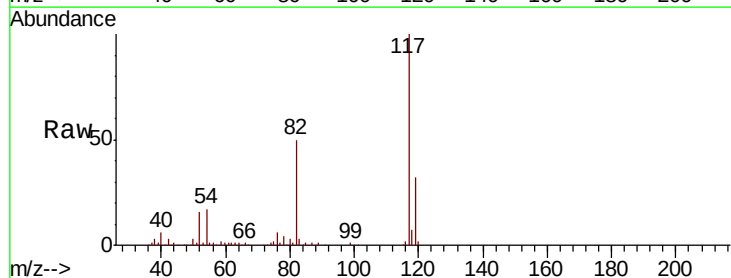
Instrument :
MSVOA_N
ClientSampleId :

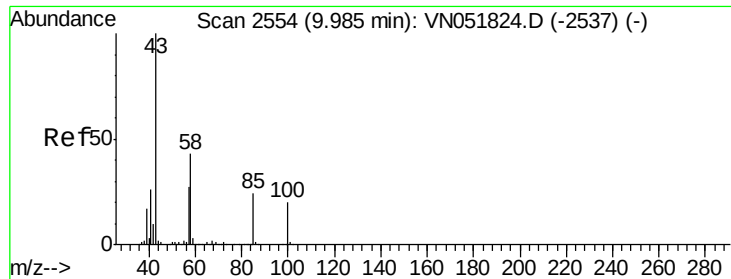
Tot Ion:173 Resp: 1423
Ion Ratio Lower Upper
173 100
175 682.4 35.8 53.8#
254 0.0 8.6 13.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

Tgt Ion:117 Resp: 408924
Ion Ratio Lower Upper
117 100
82 49.4 44.1 66.1
119 31.9 25.8 38.8

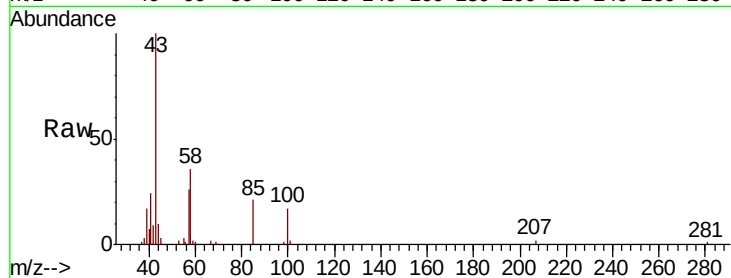




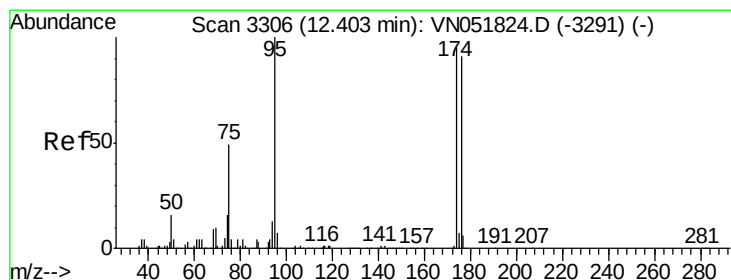
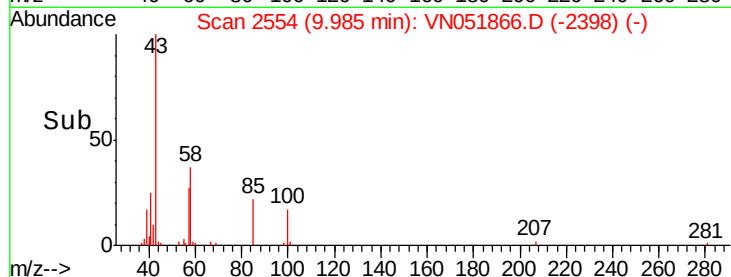
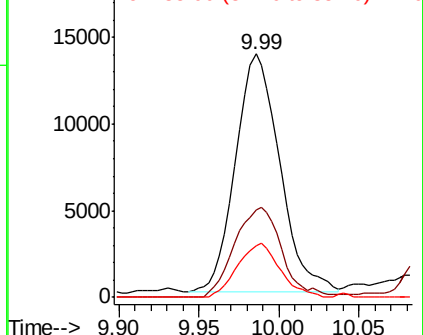
#58
 4-Methyl-2-Pentanone
 Concen: 9.560 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051866.D
 Acq: 15 Oct 2018 11:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.8	29.3	43.9
85	21.7	12.6	18.8

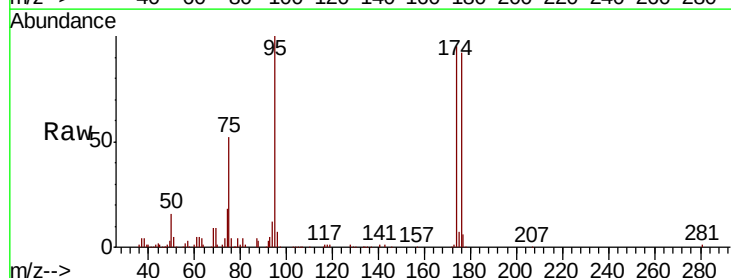


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0

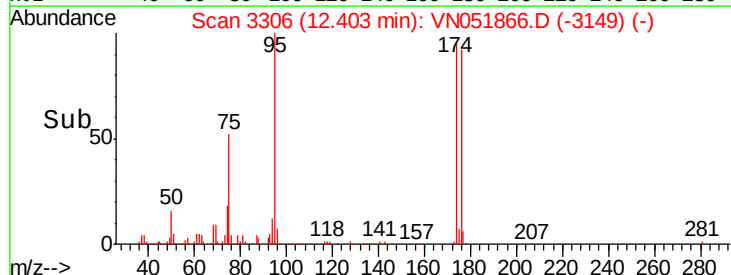
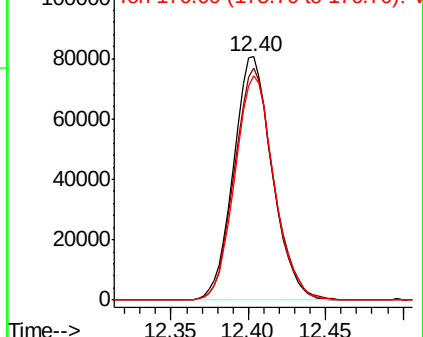


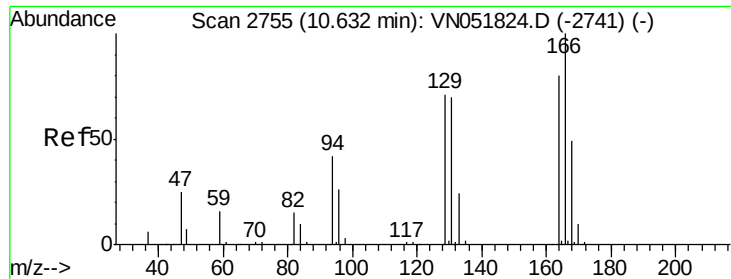
#60
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051866.D
 Acq: 15 Oct 2018 11:38

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.1	73.5	110.3
176	93.2	70.2	105.2



Abundance Ion 95.00 (94.70 to 95.70): VN0
 Ion 174.00 (173.70 to 174.70): V
 Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 0.212 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:164 Resp: 1111

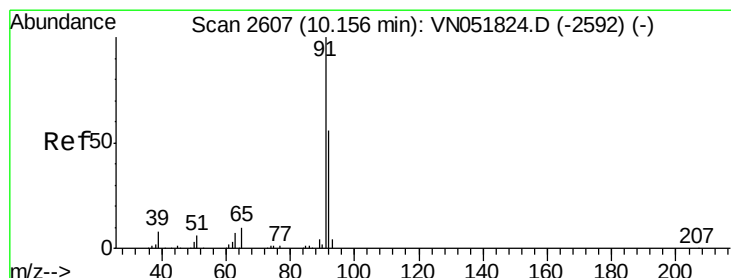
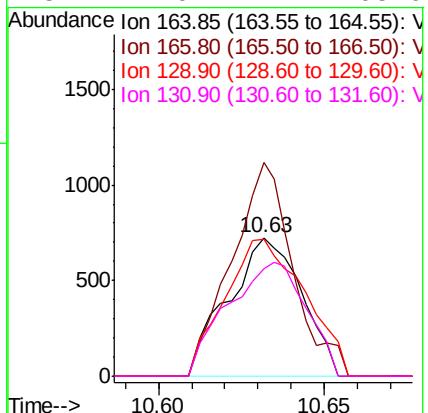
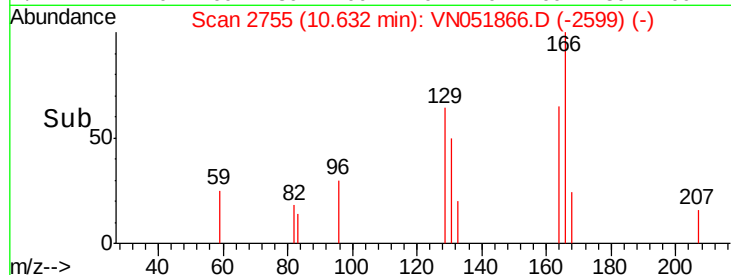
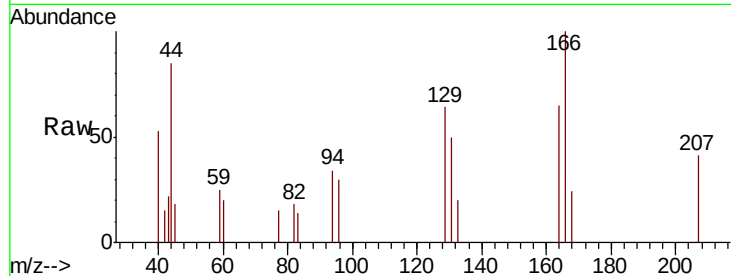
Ion Ratio Lower Upper

164 100

166 153.9 98.7 148.1#

129 99.0 69.6 104.4

131 77.0 72.4 108.6



#62

Toluene

Concen: 192.114 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051866.D

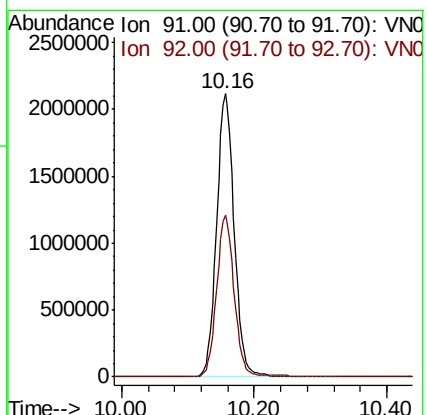
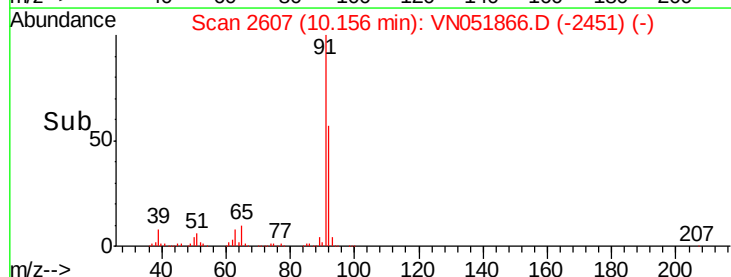
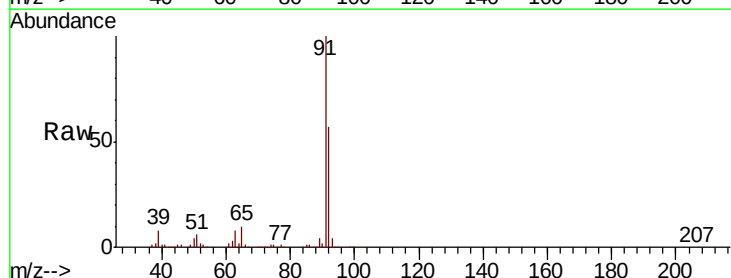
Acq: 15 Oct 2018 11:38

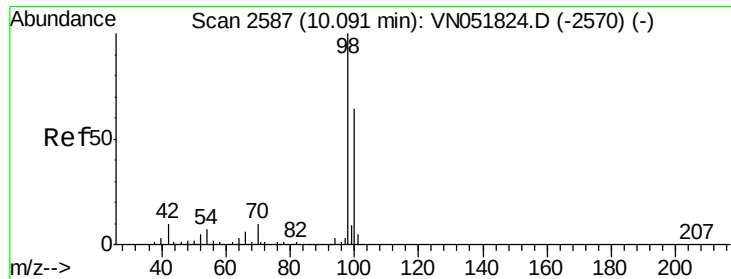
Tgt Ion: 91 Resp: 3902759

Ion Ratio Lower Upper

91 100

92 56.6 44.6 66.8

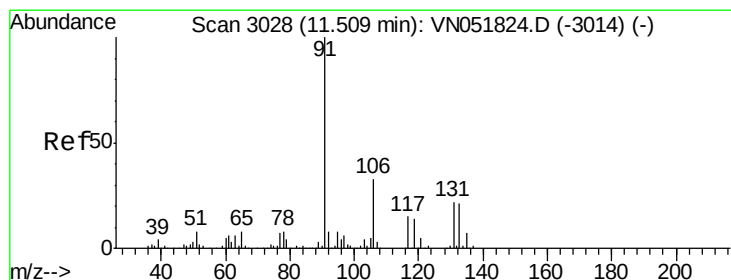
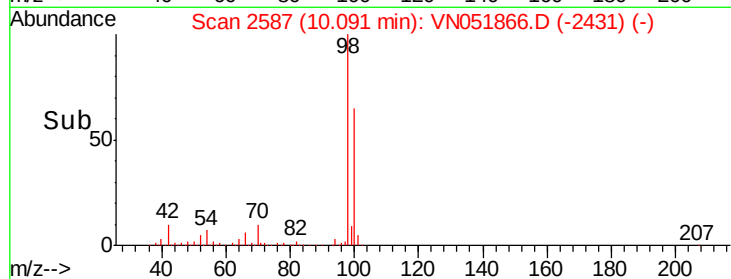
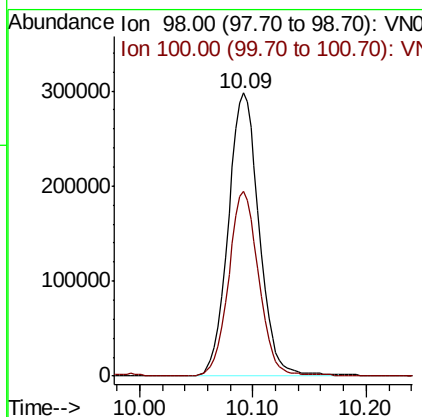
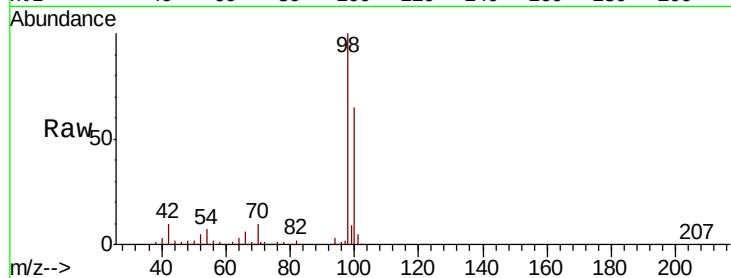




#63
Toluene-d8
Concen: 192.114 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

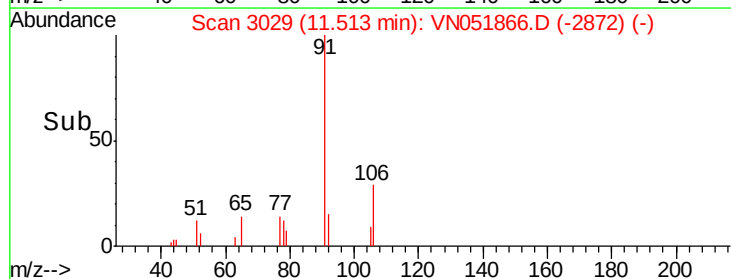
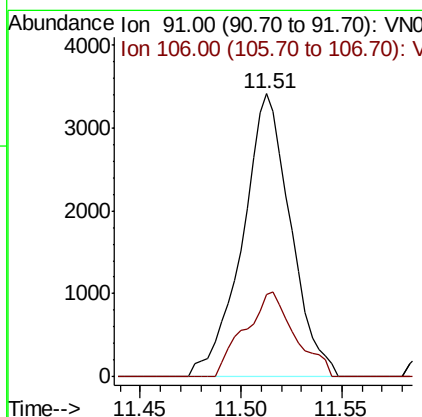
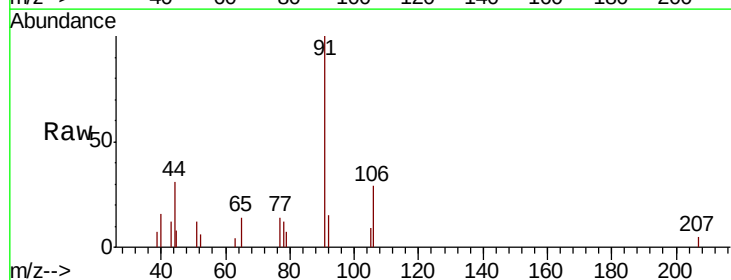
Instrument :
MSVOA_N
ClientSampleId :

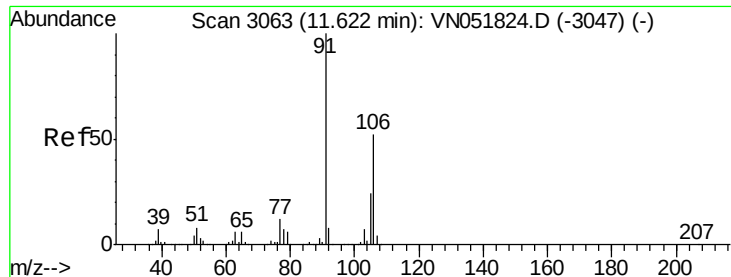
Tot Ion: 98 Resp: 565654
Ion Ratio Lower Upper
98 100
100 63.8 50.8 76.2



#66
Ethyl Benzene
Concen: 0.254 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051866.D
Acq: 15 Oct 2018 11:38

Tgt Ion: 91 Resp: 5694
Ion Ratio Lower Upper
91 100
106 29.3 25.9 38.9





#67

m/p-Xvlenes

Concen: 0.283 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.01 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

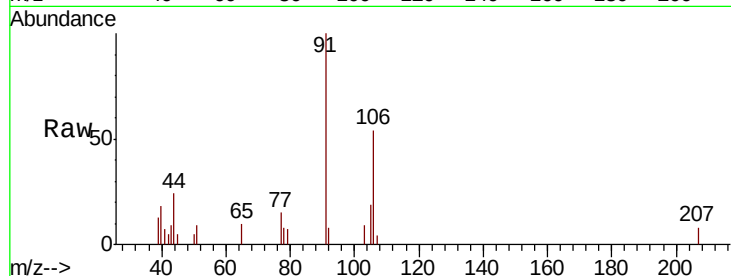
ClientSampled :

Tot Ion:106 Resp: 2575

Ion Ratio Lower Upper

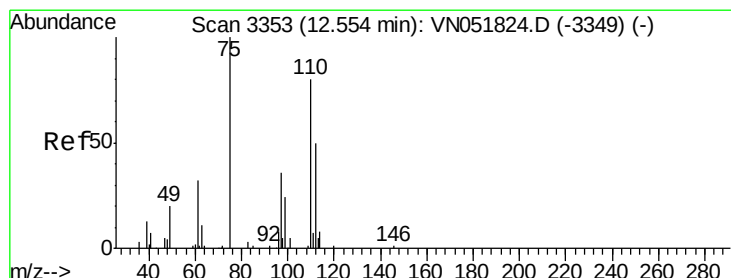
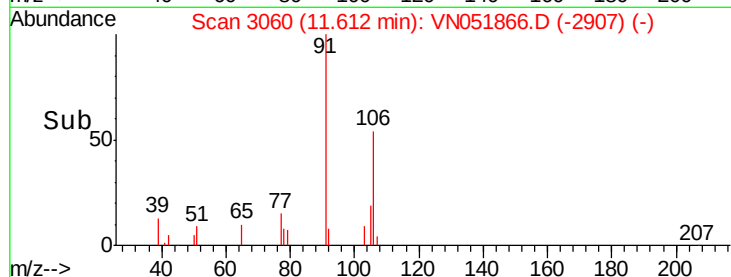
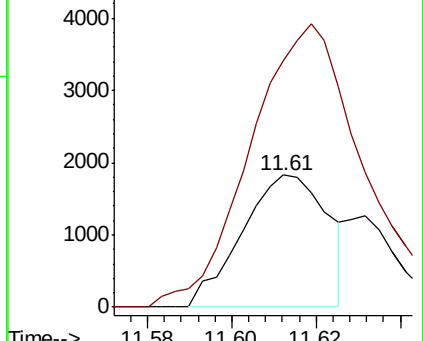
106 100

91 284.7 158.8 238.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VNO



#72

1,2,3-Trichloropropane

Concen: 19.611 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051866.D

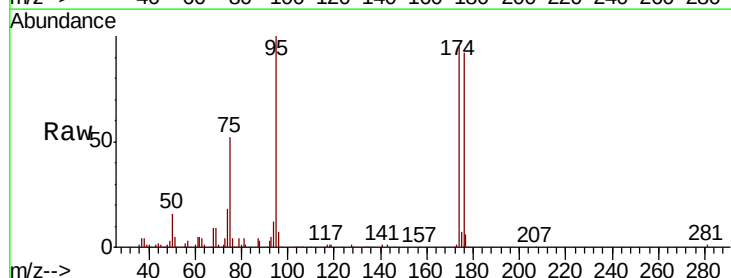
Acq: 15 Oct 2018 11:38

Tgt Ion: 75 Resp: 72906

Ion Ratio Lower Upper

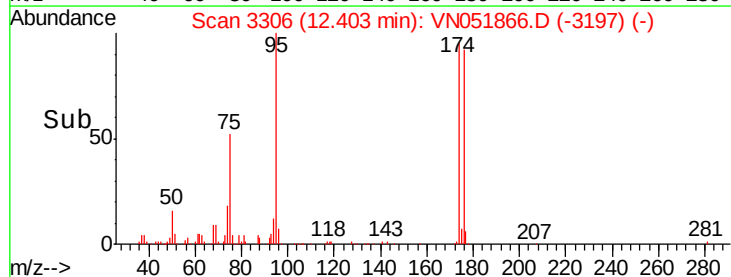
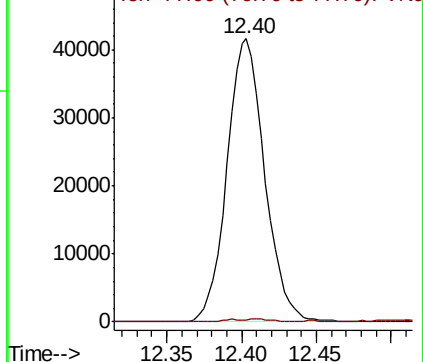
75 100

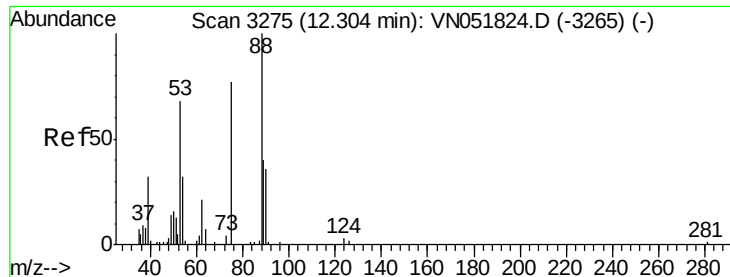
77 0.6 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

t-1,4-Dichloro-2-butene

Concen: 59.296 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

ClientSampled :

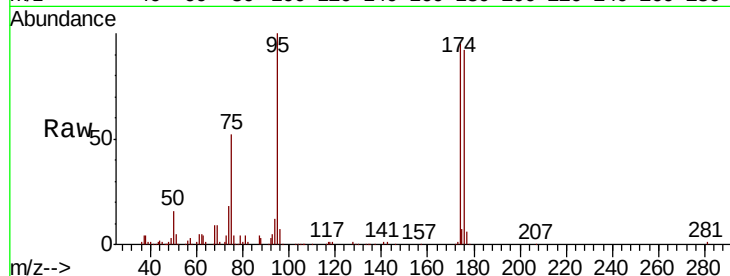
Tot Ion: 75 Resp: 72906

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

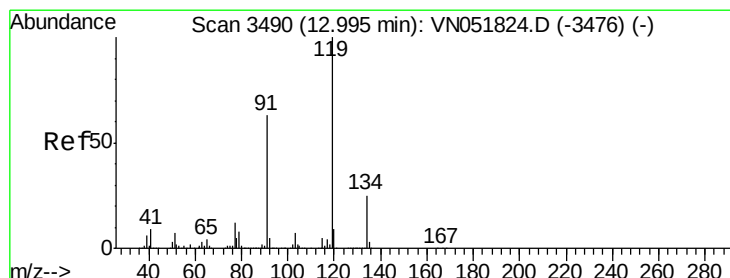
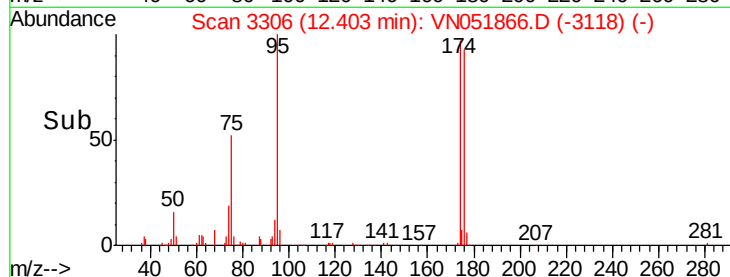
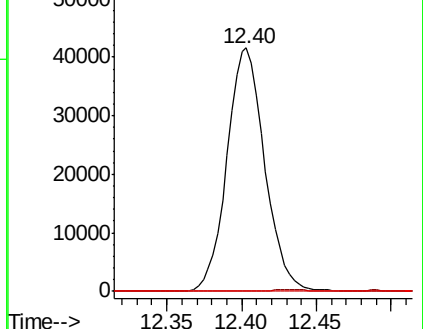
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051866.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051866.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN051866.D (-3306) (-)



#79

tert-butylbenzene

Concen: 5.511 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.29 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

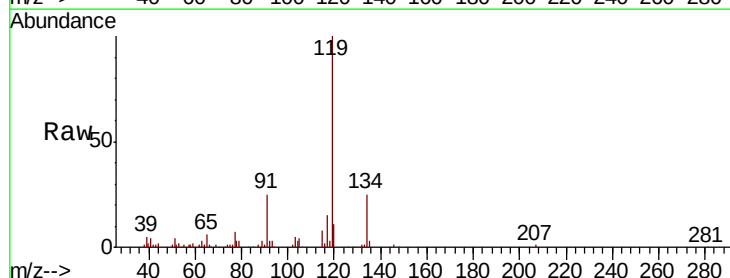
Tgt Ion: 119 Resp: 100297

Ion Ratio Lower Upper

119 100

91 24.3 0.0 131.6

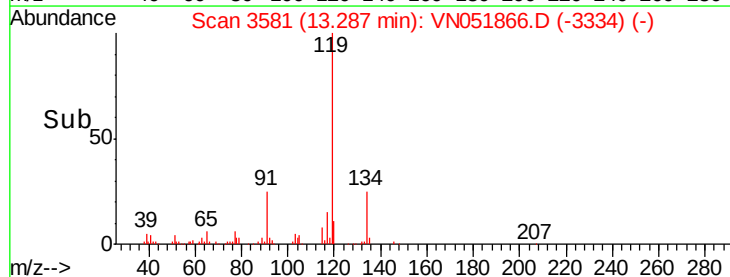
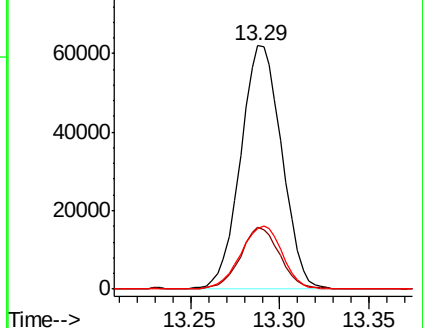
134 26.2 0.0 46.2

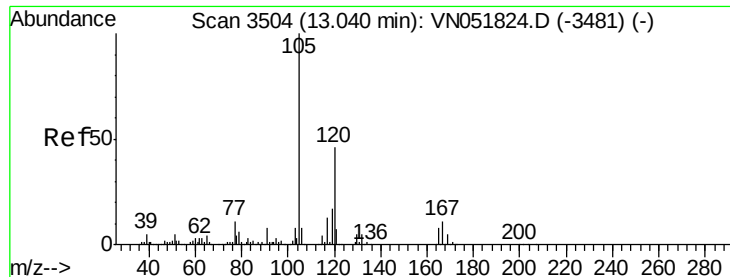


Abundance Ion 119.00 (118.70 to 119.70): VN051866.D (-3581) (-)

Ion 91.00 (90.70 to 91.70): VN051866.D (-3581) (-)

Ion 134.00 (133.70 to 134.70): VN051866.D (-3581) (-)





#80

1,2,4-Trimethylbenzene

Concen: 0.234 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

Instrument :

MSVOA_N

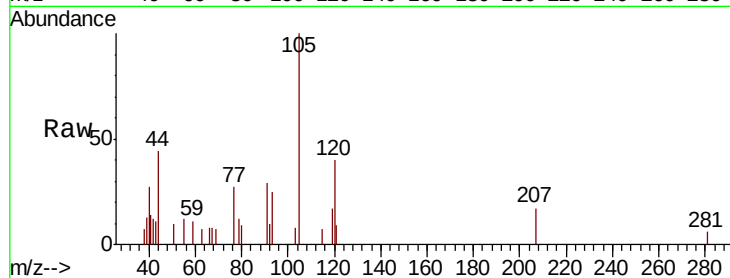
ClientSampleId :

Tot Ion:105 Resp: 4622

Ion Ratio Lower Upper

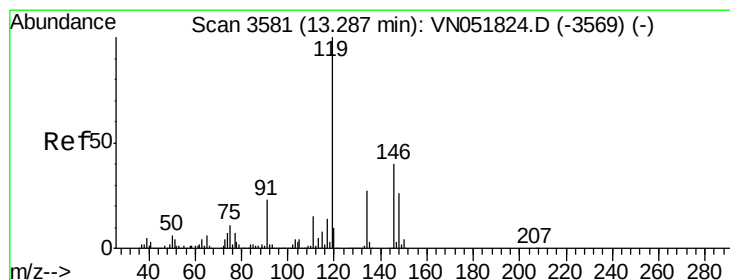
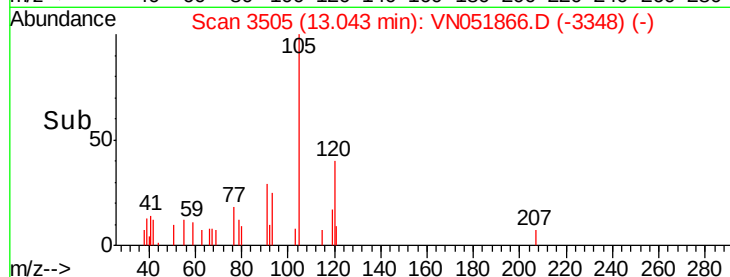
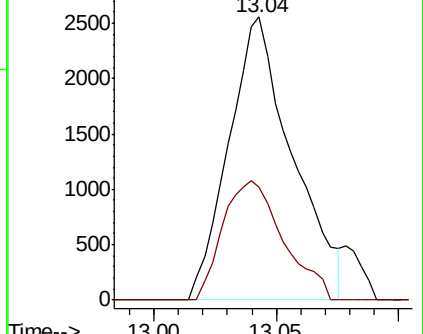
105 100

120 40.0 0.0 89.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

p-Isopropyltoluene

Concen: 4.708 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051866.D

Acq: 15 Oct 2018 11:38

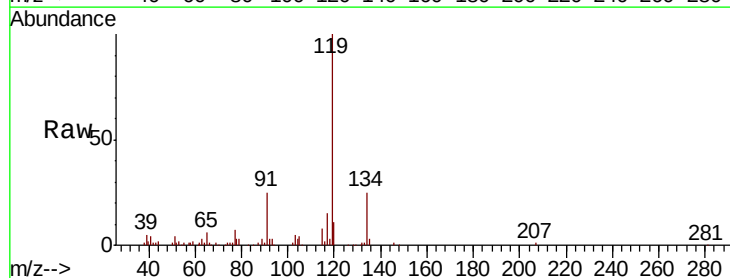
Tgt Ion:119 Resp: 100297

Ion Ratio Lower Upper

119 100

134 26.2 0.0 53.6

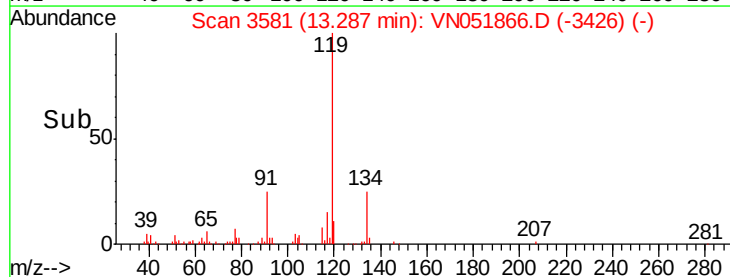
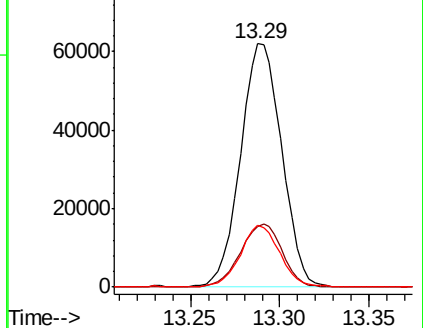
91 24.3 0.0 52.0

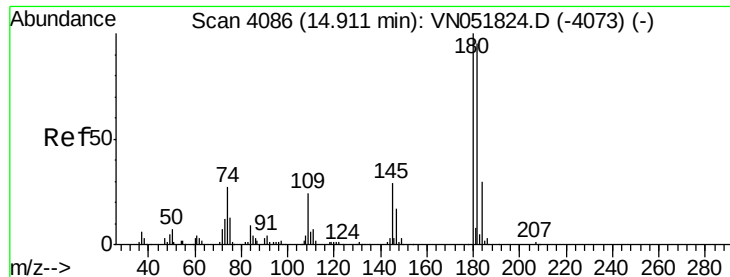


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

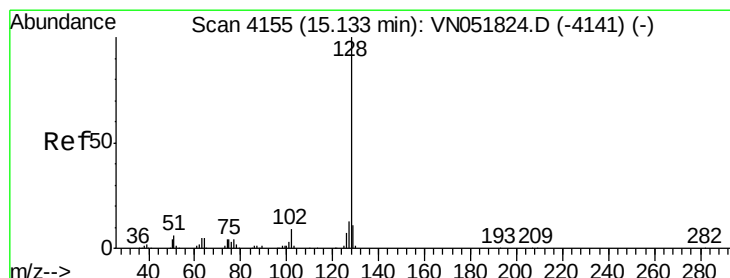
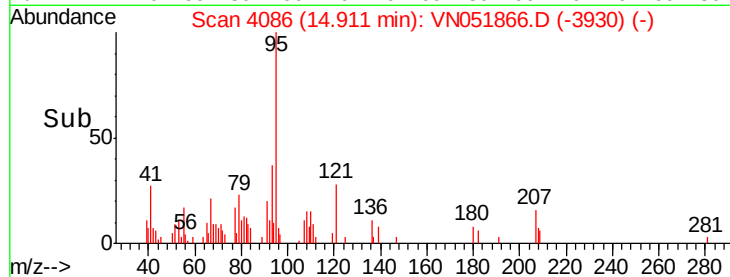
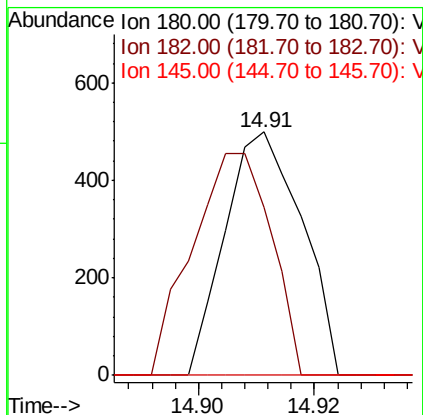
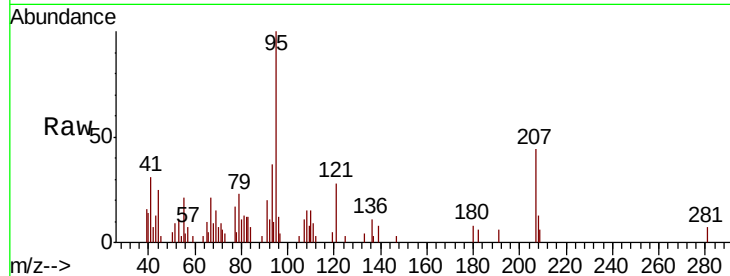




#89
 1,2,4-Trichlorobenzene
 Concen: 7.796 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051866.D
 Acq: 15 Oct 2018 11:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 458
 Ion Ratio Lower Upper
 180 100
 182 93.9 77.7 116.5
 145 0.0 23.4 35.2#



#91
 Naphthalene
 Concen: 8.729 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051866.D
 Acq: 15 Oct 2018 11:38

Tgt Ion:128 Resp: 2706
 Ion Ratio Lower Upper
 128 100
 127 5.9 10.1 15.1#
 129 2.4 8.4 12.6#

