

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051986.D
 Acq On : 24 Oct 2018 14:27
 Operator : MD\SY
 Sample : PB114120ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:46:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1145903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1662805	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1554096	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	691773	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	590979	57.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.82%	
35) Dibromofluoromethane	7.59	113	617874	58.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.46%	
50) Toluene-d8	10.09	98	2298633	59.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.90%	
62) 4-Bromofluorobenzene	12.40	95	715718	54.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.62%	

Target Compounds

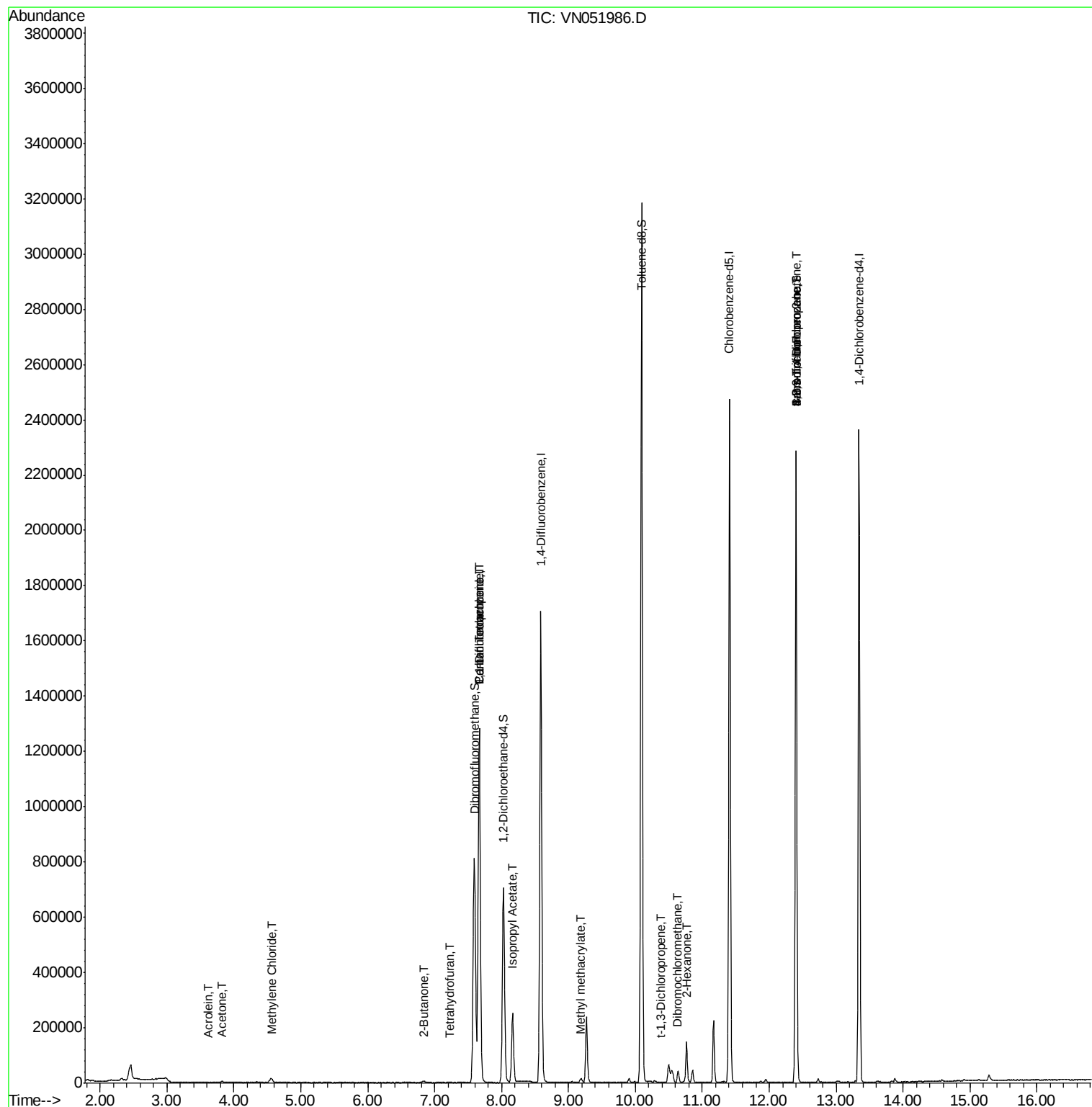
					Qvalue	
13) Acrolein	3.62	56	35	37.370	ug/l #	14
16) Acetone	3.82	43	4050	2.409	ug/l	94
18) Methyl Acetate	4.32	43	4284	Below Cal	#	61
20) Methylene Chloride	4.55	84	12628	1.280	ug/l	96
25) 2-Butanone	6.84	43	5798	2.419	ug/l #	78
29) Tetrahydrofuran	7.21	42	684	0.421	ug/l #	79
31) Cyclohexane	7.66	56	17279	Below Cal	#	25
36) 1,1-Dichloropropene	7.67	75	68945	5.405	ug/l #	47
37) Ethyl Acetate	6.94	43	456	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	100468	6.861	ug/l #	16
43) Isopropyl Acetate	8.17	43	272467	25.507	ug/l	100
48) Methyl methacrylate	9.18	41	6419	1.243	ug/l #	4
53) t-1,3-Dichloropropene	10.37	75	59	1.248	ug/l #	43
59) 2-Hexanone	10.76	43	20347	5.154	ug/l #	57
60) Dibromochloromethane	10.63	129	225	1.995	ug/l #	11
71) Bromoform	12.40	173	6973	4.466	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	346592	48.504	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	346592	152.518	ug/l #	12

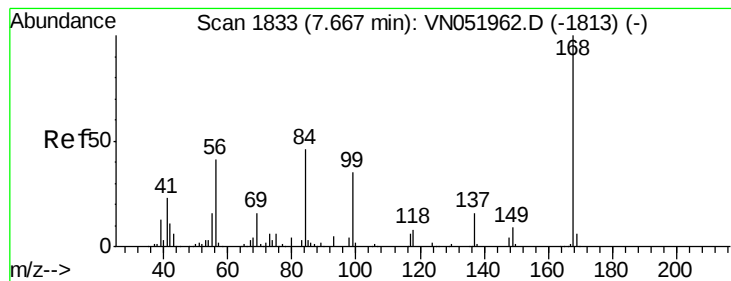
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :

MSVOA_N

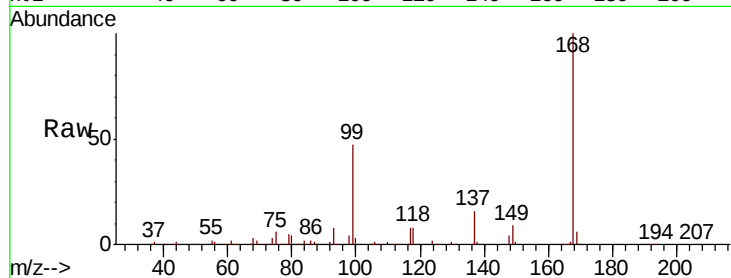
ClientSampled :

Tot Ion:168 Resp: 1145903

Ion Ratio Lower Upper

168 100

99 46.9 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

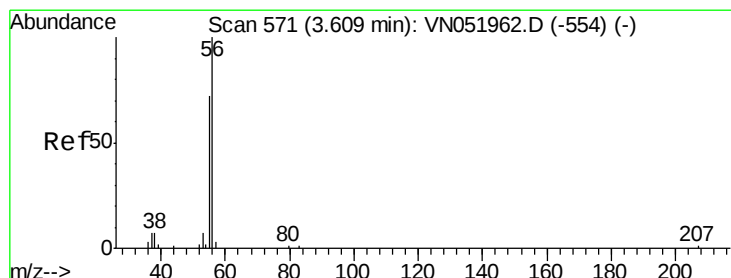
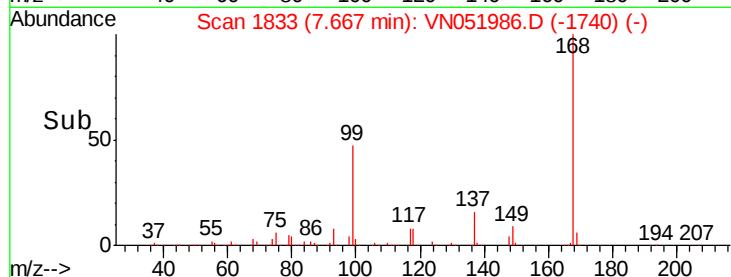
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.370 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051986.D

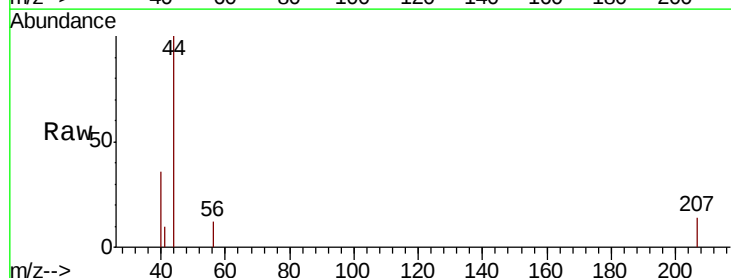
Acq: 24 Oct 2018 14:27

Tgt Ion: 56 Resp: 35

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

200

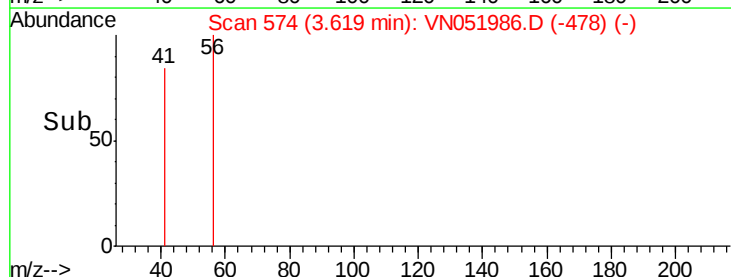
150

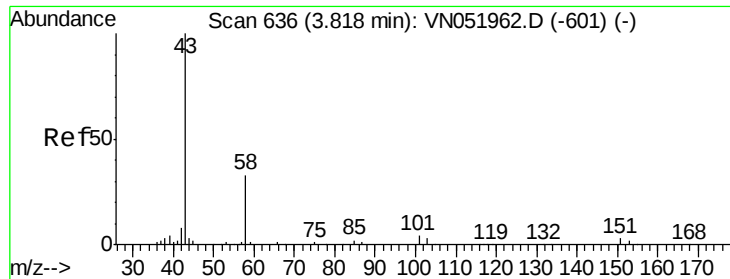
100

50

0

Time-->





#16

Acetone

Concen: 2.409 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :

MSVOA_N

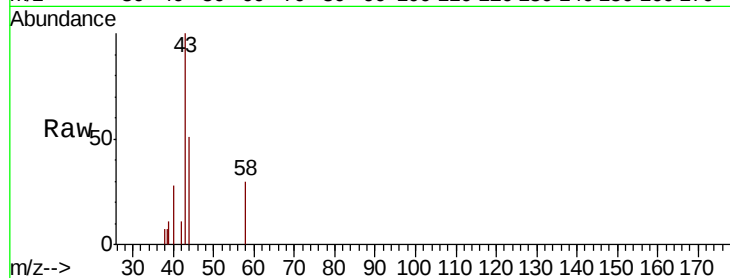
ClientSampled :

Tot Ion: 43 Resp: 4050

Ion Ratio Lower Upper

43 100

58 30.1 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3000

2500

2000

1500

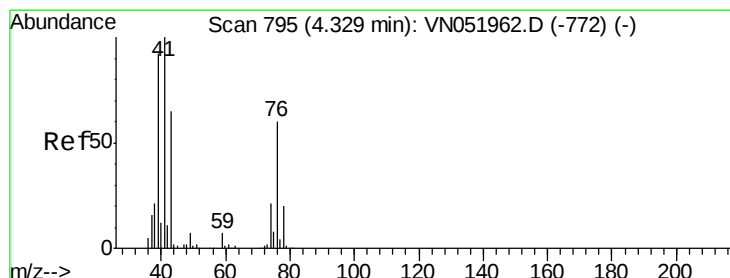
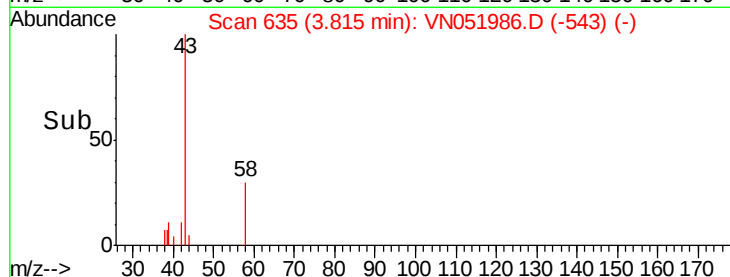
1000

500

0

3.76 3.78 3.80 3.82 3.84

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN051986.D

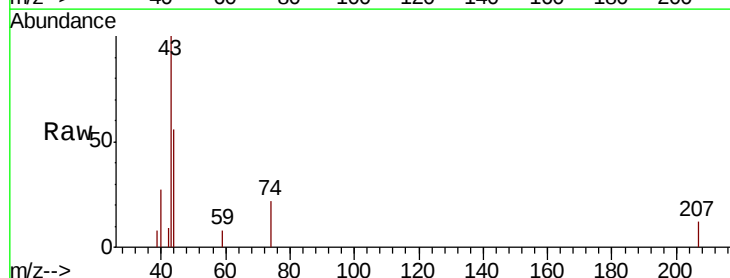
Acq: 24 Oct 2018 14:27

Tgt Ion: 43 Resp: 4284

Ion Ratio Lower Upper

43 100

74 10.1 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

2000

1500

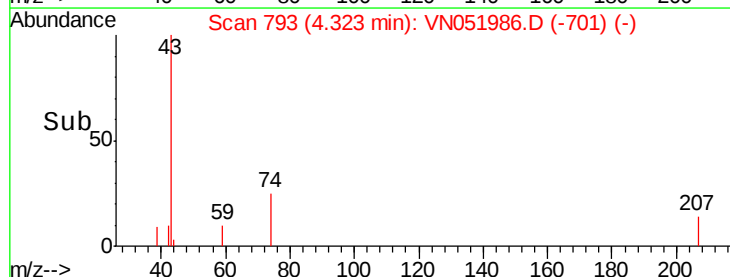
1000

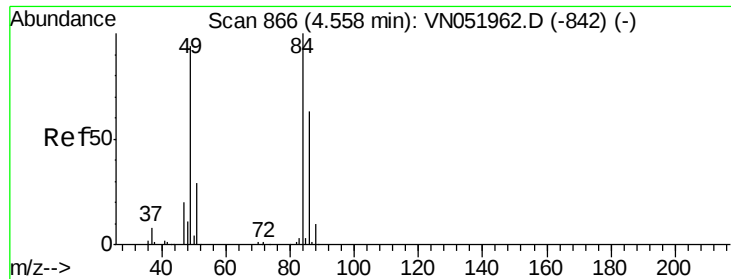
500

0

4.25 4.30 4.35

Time-->





#20

Methvlene Chloride

Concen: 1.280 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.01 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 12628

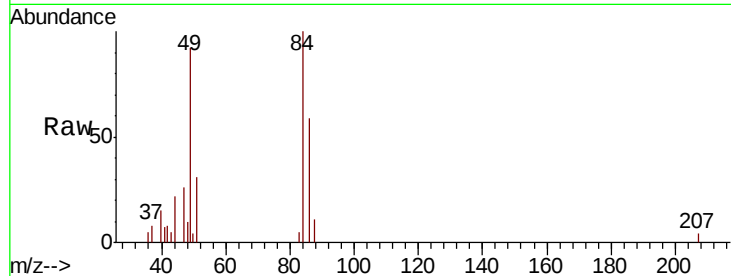
Ion Ratio Lower Upper

84 100

49 91.7 75.4 113.0

51 31.5 23.1 34.7

86 59.3 50.2 75.4

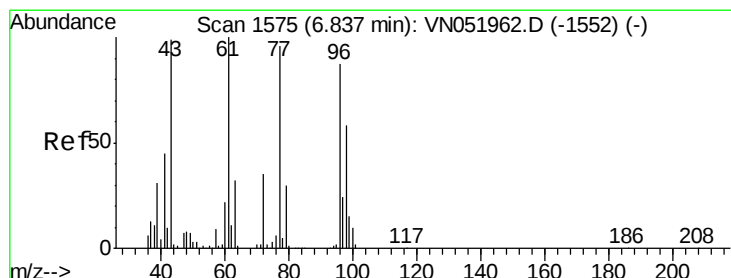
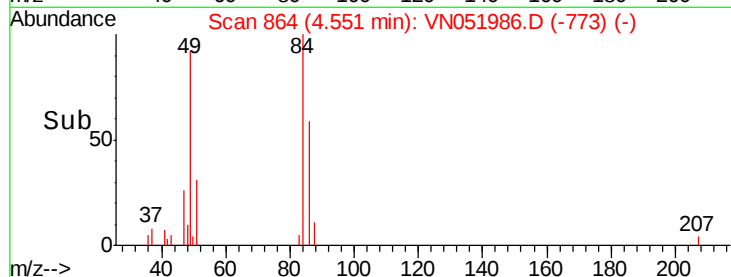
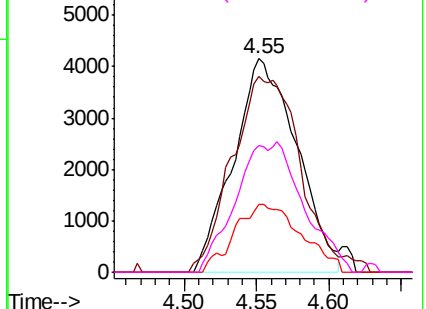


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.419 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN051986.D

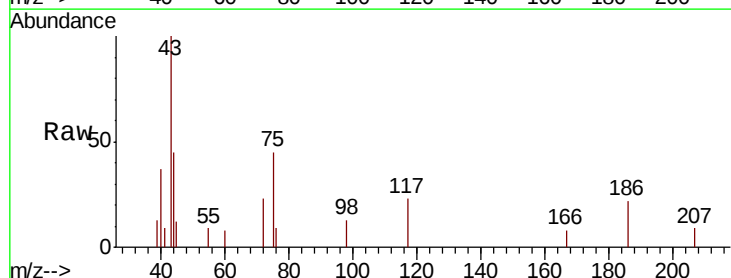
Acq: 24 Oct 2018 14:27

Tgt Ion: 43 Resp: 5798

Ion Ratio Lower Upper

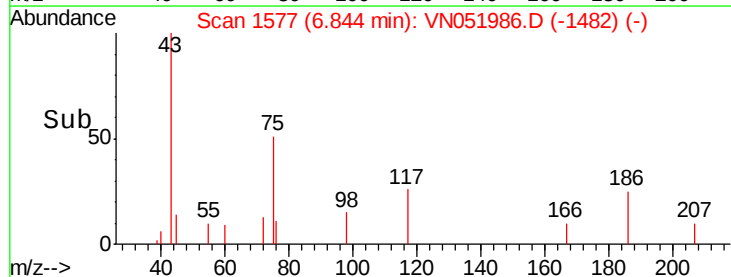
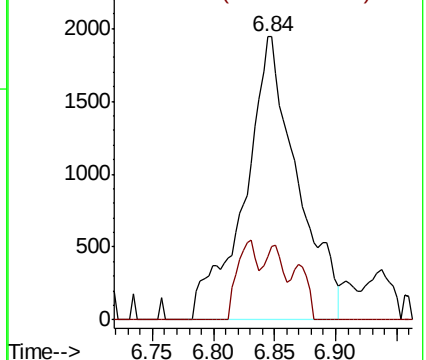
43 100

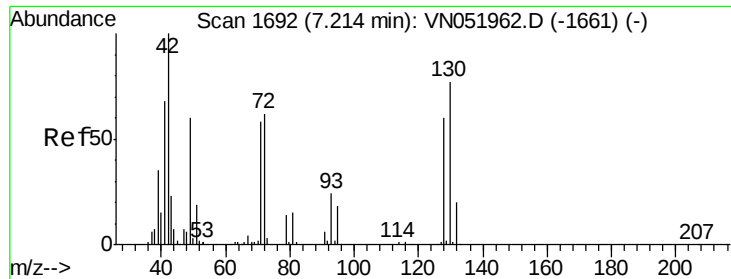
72 22.6 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

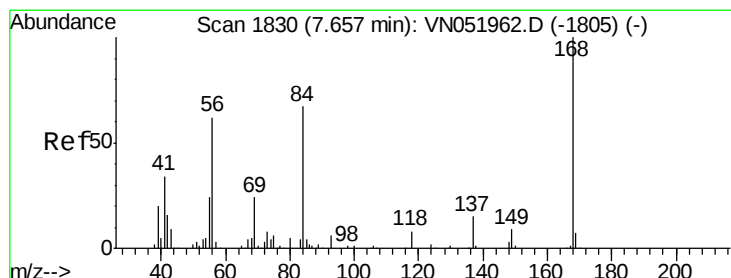
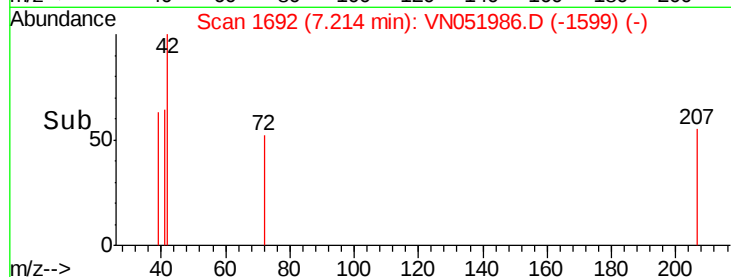
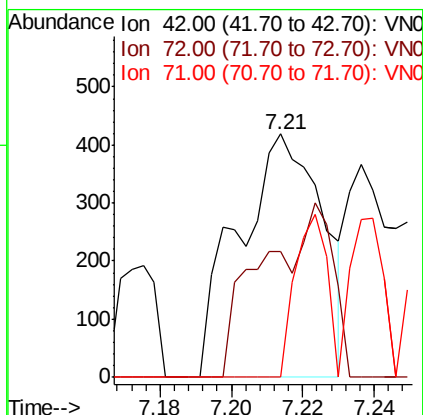
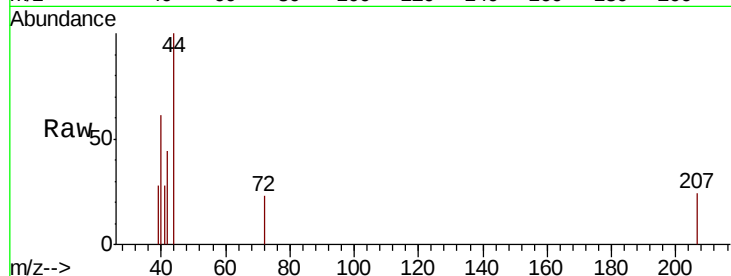




#29
Tetrahydrofuran
Concen: 0.421 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051986.D
Acq: 24 Oct 2018 14:27

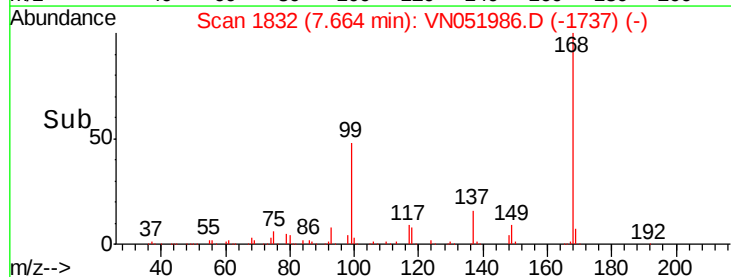
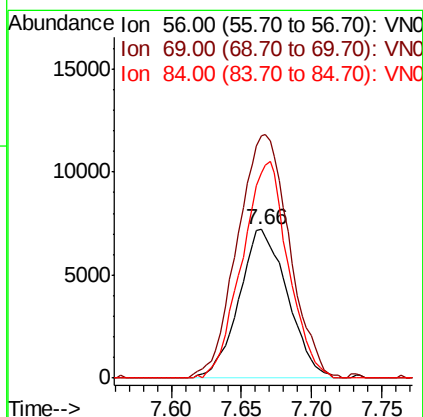
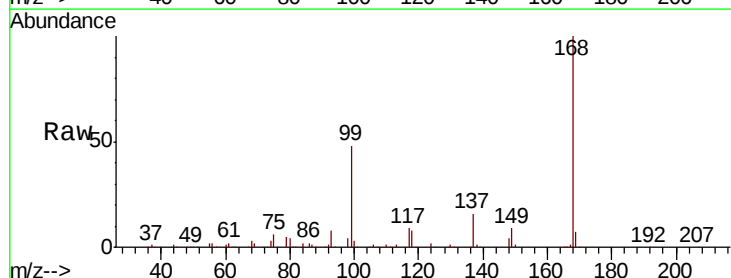
Instrument :
MSVOA_N
ClientSampled :

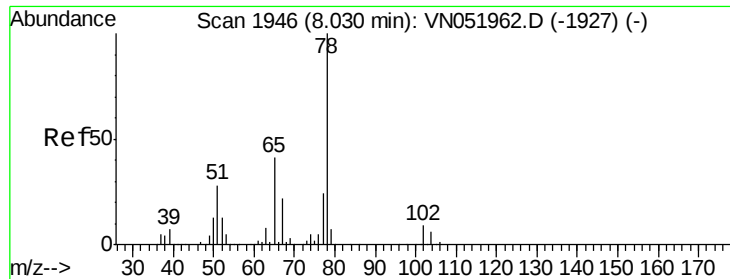
Tot Ion: 42 Resp: 684
Ion Ratio Lower Upper
42 100
72 59.4 47.5 71.3
71 25.1 45.4 68.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051986.D
Acq: 24 Oct 2018 14:27

Tgt Ion: 56 Resp: 17279
Ion Ratio Lower Upper
56 100
69 162.9 31.2 46.8#
84 137.8 86.3 129.5#

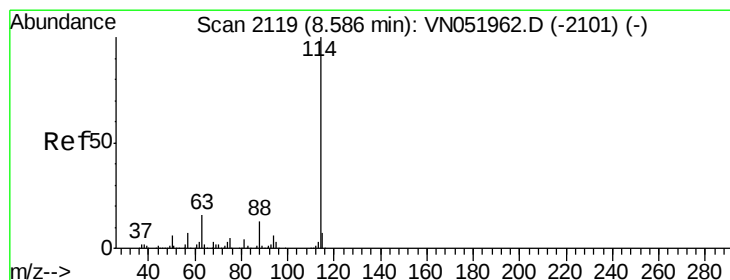
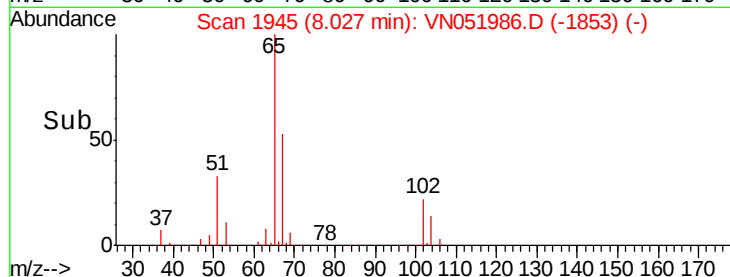
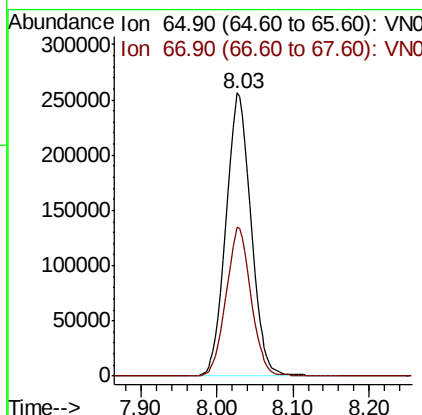
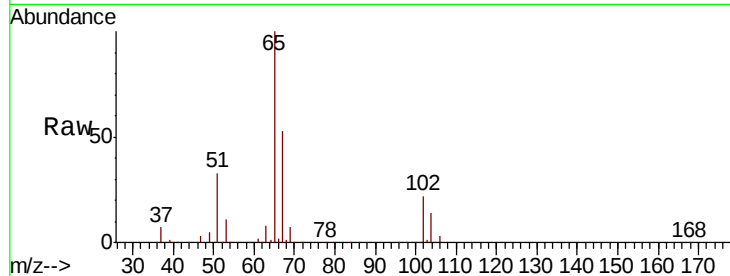




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051986.D
 Acq: 24 Oct 2018 14:27

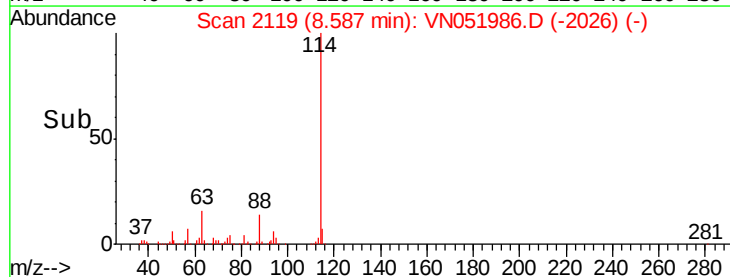
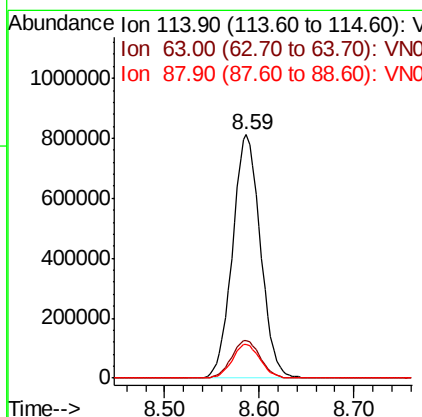
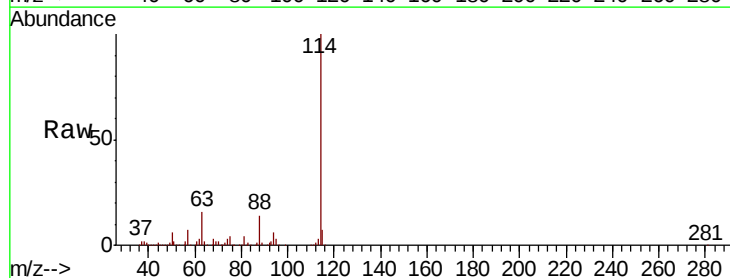
Instrument :
 MSVOA_N
 ClientSampled :

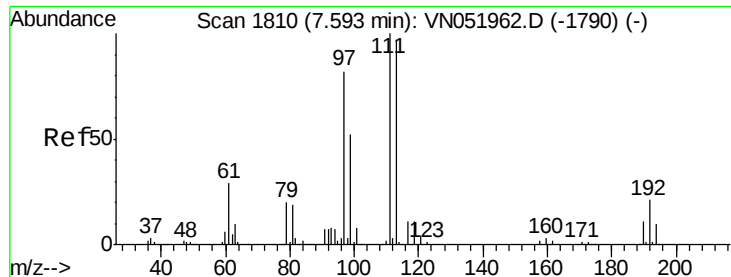
Tot Ion: 65 Resp: 590979
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051986.D
 Acq: 24 Oct 2018 14:27

Tgt Ion: 114 Resp: 1662805
 Ion Ratio Lower Upper
 114 100
 63 15.7 0.0 31.2
 88 14.0 0.0 27.0

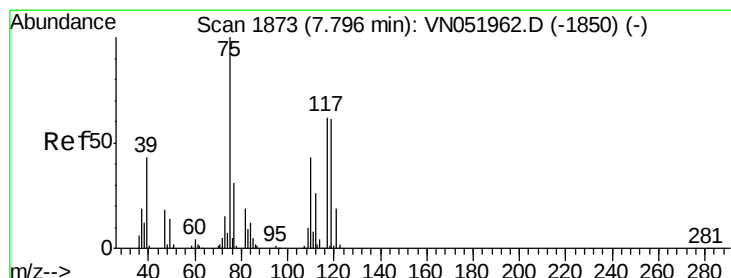
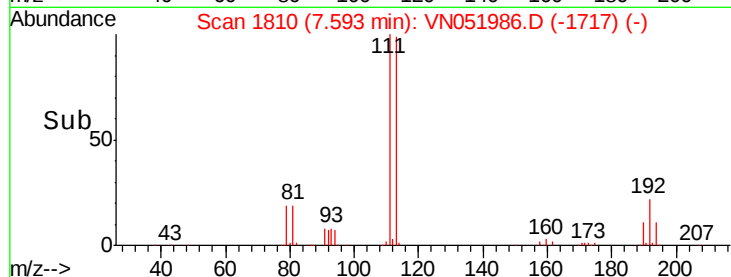
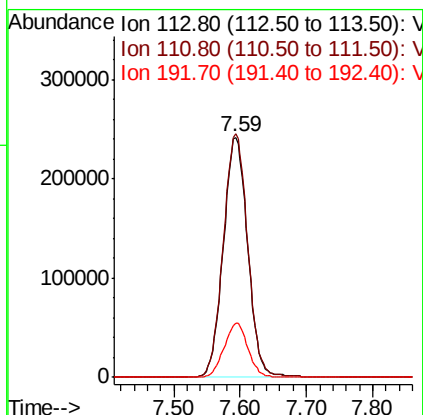
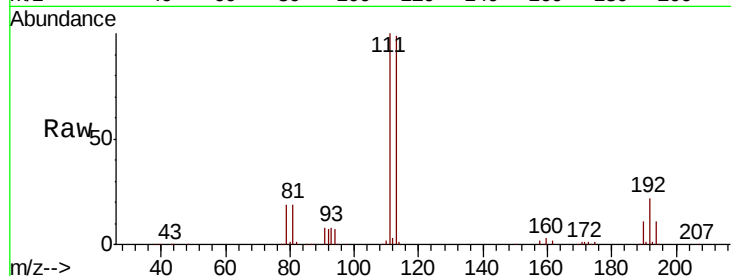




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051986.D
 Acq: 24 Oct 2018 14:27

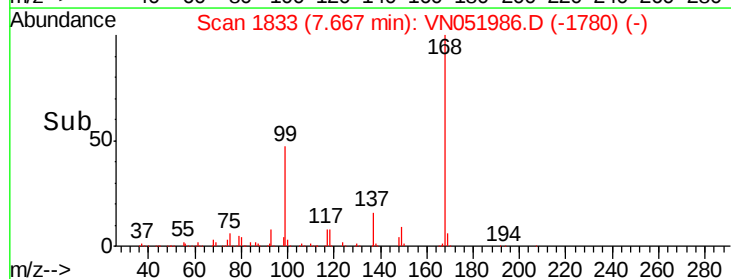
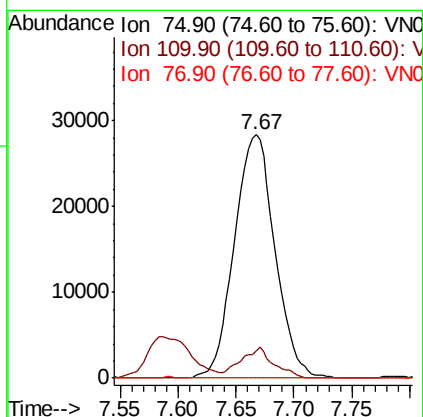
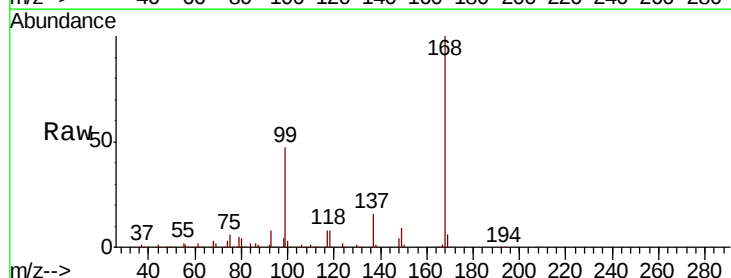
Instrument :
 MSVOA_N
 ClientSampleId :

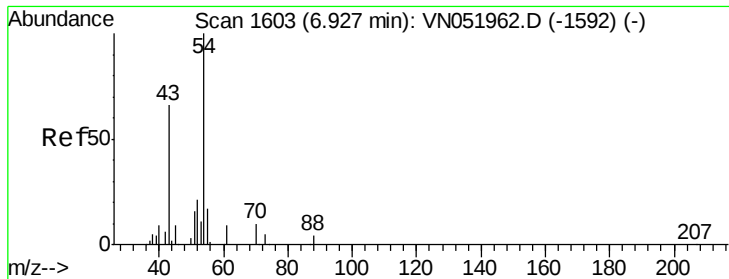
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.7	121.1
192	22.1	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.405 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051986.D
 Acq: 24 Oct 2018 14:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	20.9	62.8#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.94 min Scan# 1606

Delta R.T. 0.01 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

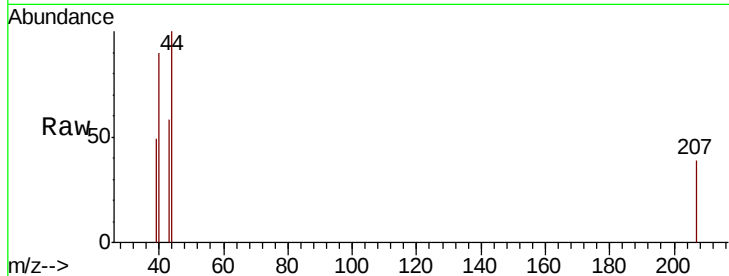
Tot Ion: 43 Resp: 456

Ion Ratio Lower Upper

43 100

61 0.0 13.5 20.3#

70 0.0 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VN051986.D (-1510) (-)

Ion 60.90 (60.60 to 61.60): VN051986.D (-1510) (-)

Ion 70.00 (69.70 to 70.70): VN051986.D (-1510) (-)

6.94

300

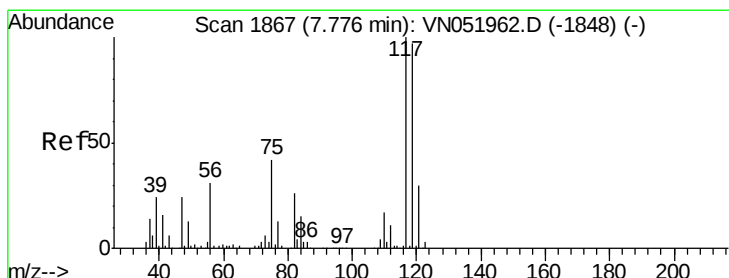
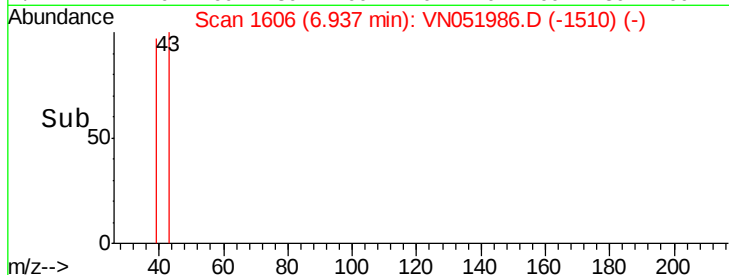
200

100

0

6.92 6.94 6.96

Time-->



#38

Carbon Tetrachloride

Concen: 6.861 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

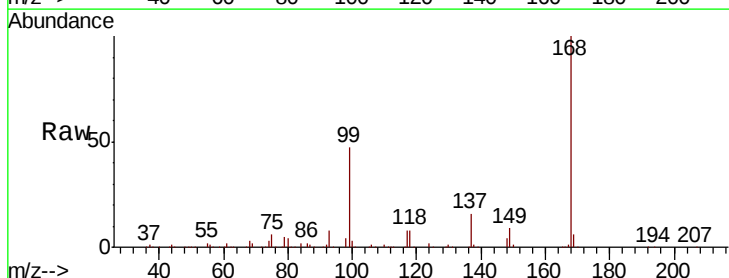
Tgt Ion: 117 Resp: 100468

Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): VN051986.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN051986.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN051986.D (-1774) (-)

7.67

50000

40000

30000

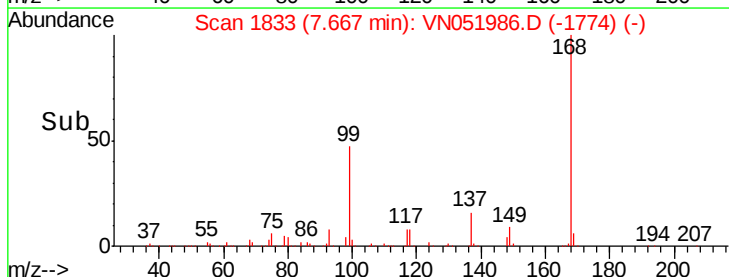
20000

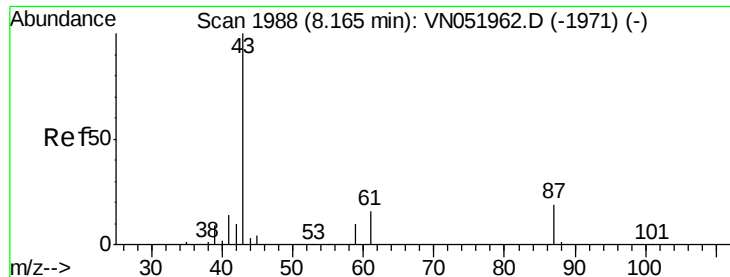
10000

0

7.60 7.70 7.80

Time-->





#43

Isopropyl Acetate

Concen: 25.507 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

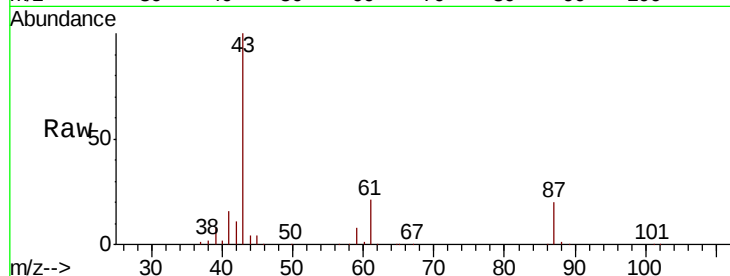
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 272467

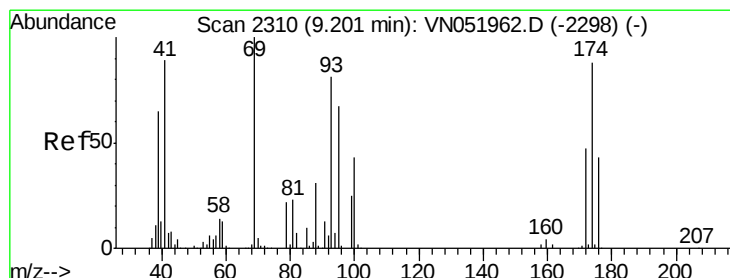
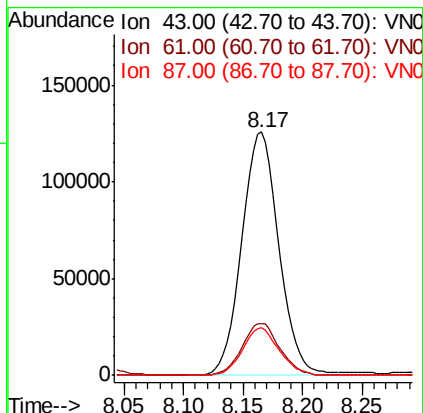
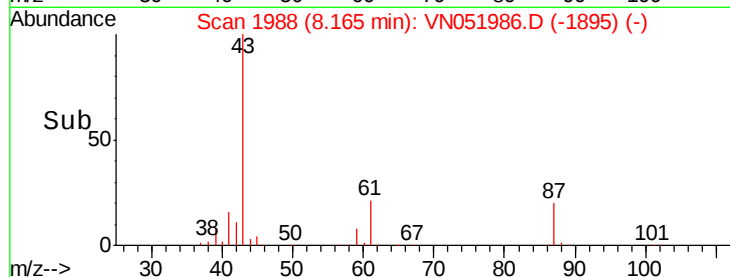
Ion	Ratio	Lower	Upper
43	100		
61	21.7	17.2	25.8
87	19.2	15.2	22.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.243 ug/l

RT: 9.18 min Scan# 2303

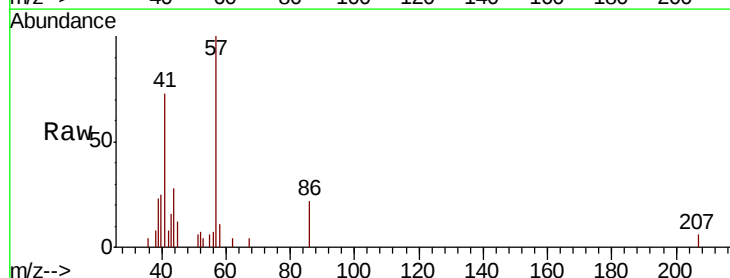
Delta R.T. -0.02 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Tgt Ion: 41 Resp: 6419

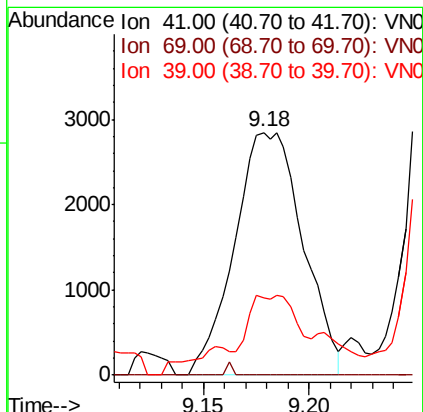
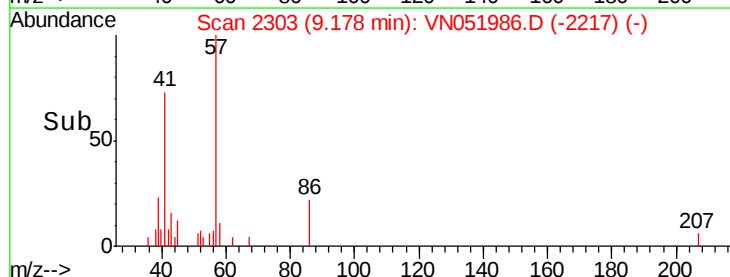
Ion	Ratio	Lower	Upper
41	100		
69	0.0	92.2	138.4#
39	7.5	60.2	90.4#

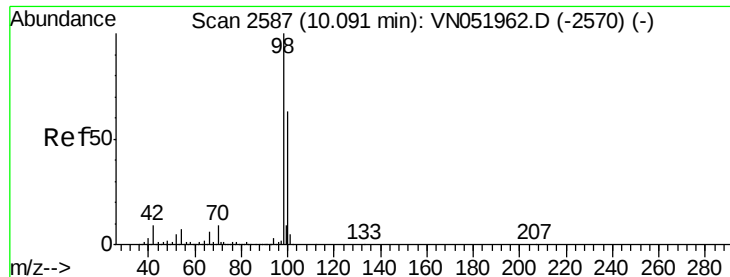


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :

MSVOA_N

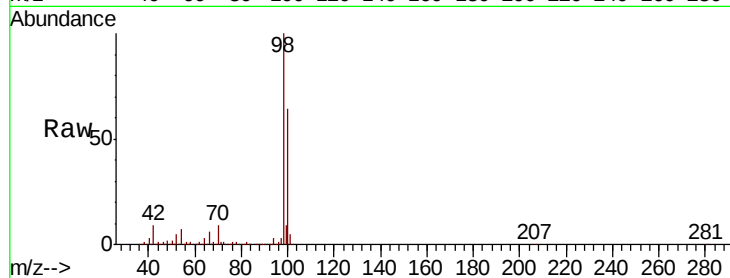
ClientSampled :

Tot Ion: 98 Resp: 2298633

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN051986.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051986.D (-2570) (-)

10.09

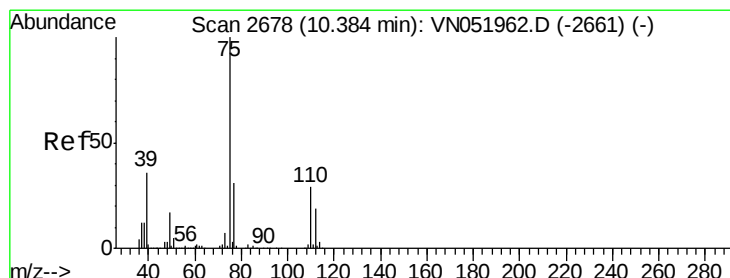
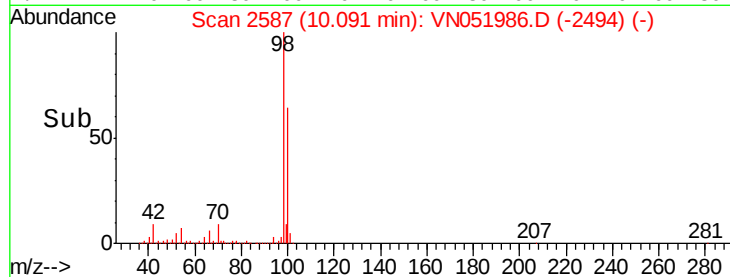
1500000

1000000

500000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.248 ug/l

RT: 10.37 min Scan# 2673

Delta R.T. -0.02 min

Lab File: VN051986.D

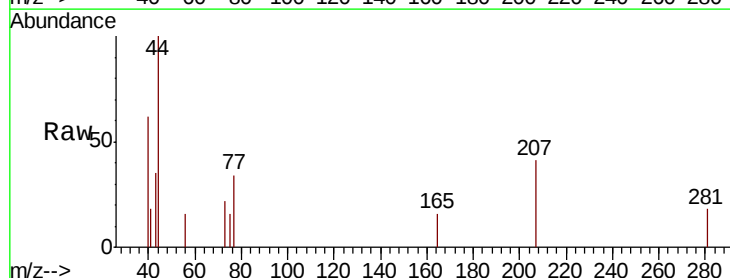
Acq: 24 Oct 2018 14:27

Tgt Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN051986.D (-2584) (-)

Ion 76.90 (76.60 to 77.60): VN051986.D (-2584) (-)

500

400

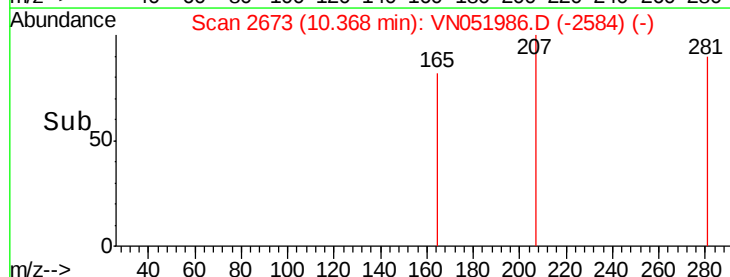
300

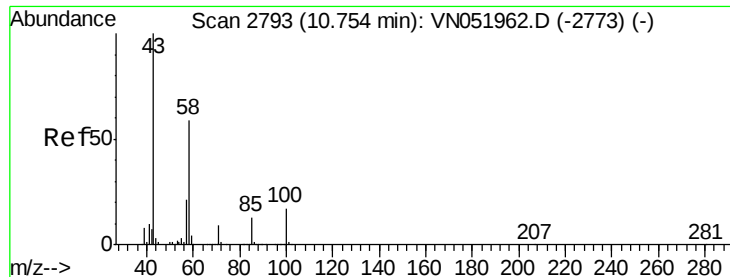
200

100

0

Time-->

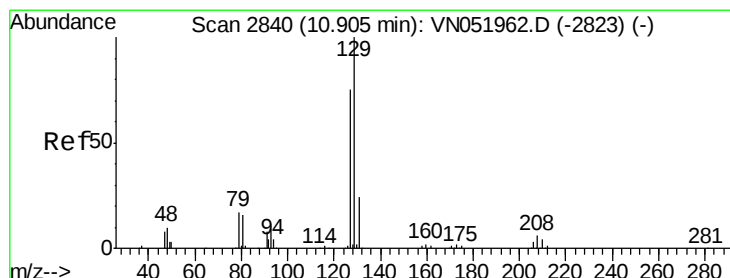
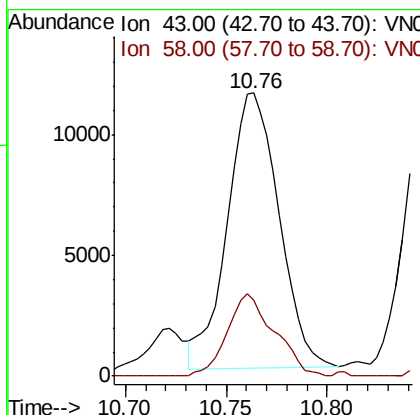
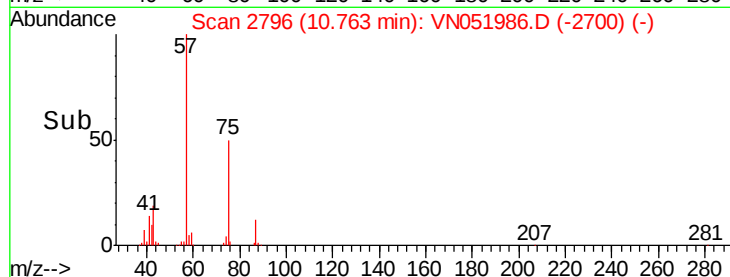
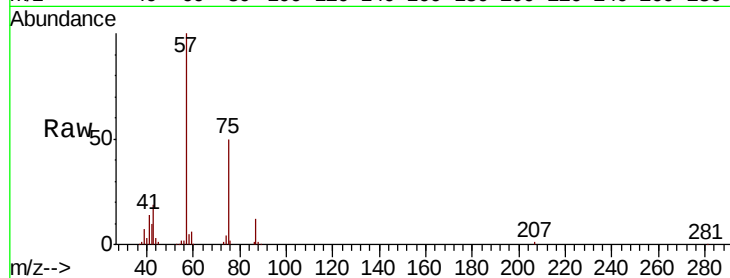




#59
2-Hexanone
Concen: 5.154 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051986.D
Acq: 24 Oct 2018 14:27

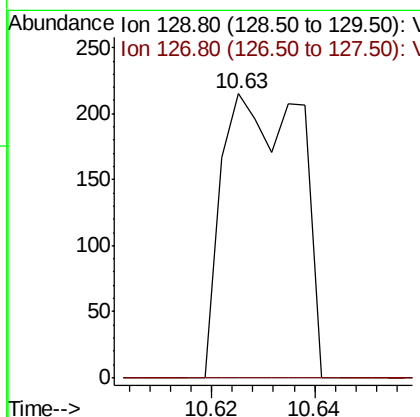
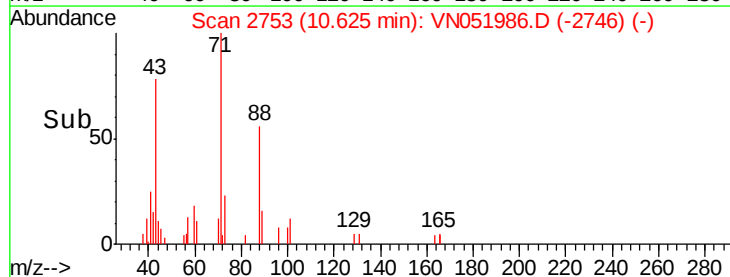
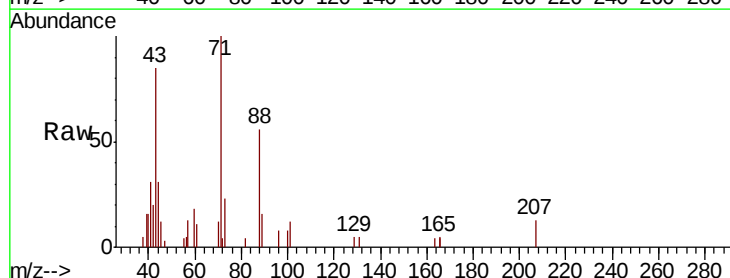
Instrument :
MSVOA_N
ClientSampled :

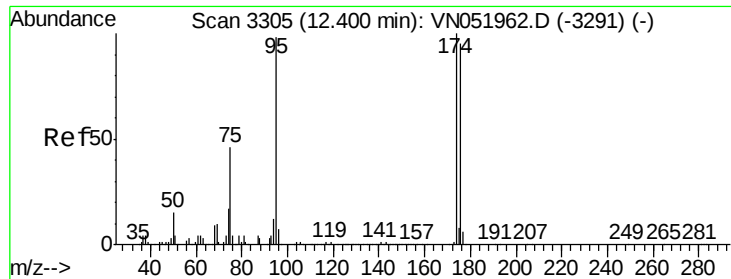
Tot Ion: 43 Resp: 20347
Ion Ratio Lower Upper
43 100
58 27.7 29.9 89.8#



#60
Dibromochloromethane
Concen: 1.995 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.28 min
Lab File: VN051986.D
Acq: 24 Oct 2018 14:27

Tgt Ion: 129 Resp: 225
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampled :

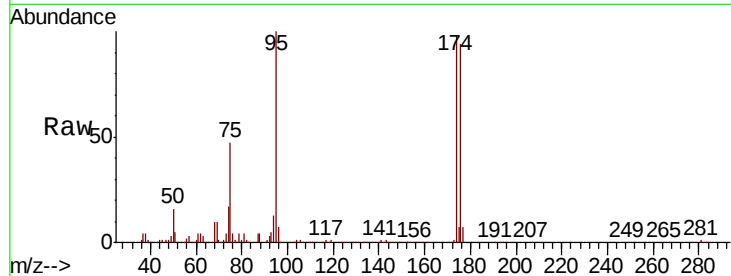
Tot Ion: 95 Resp: 715718

Ion Ratio Lower Upper

95 100

174 99.4 0.0 206.0

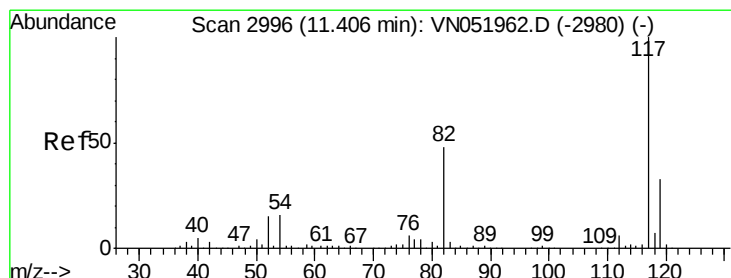
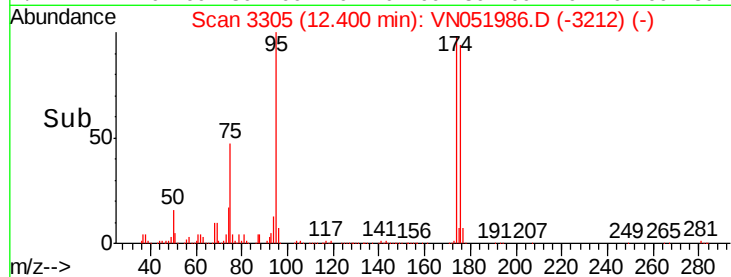
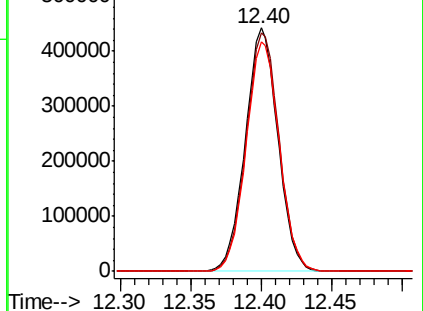
176 96.0 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): VN051986.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN051986.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN051986.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

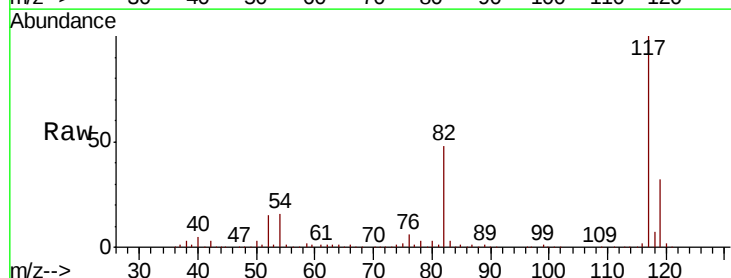
Tgt Ion: 117 Resp: 1554096

Ion Ratio Lower Upper

117 100

82 47.9 38.1 57.1

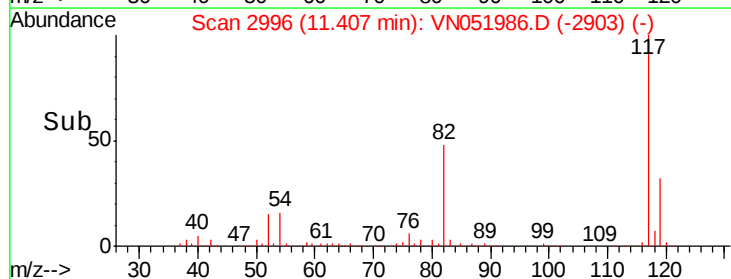
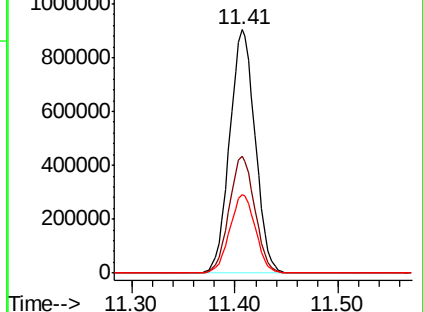
119 32.4 26.4 39.6

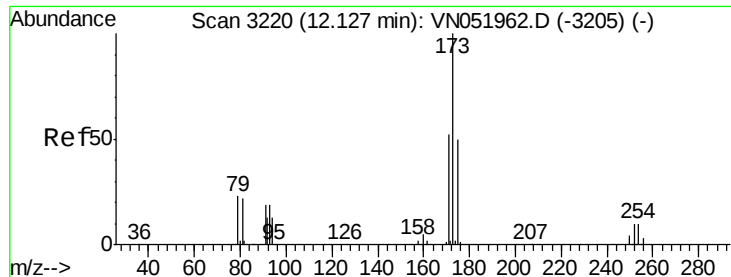


Abundance Ion 116.90 (116.60 to 117.60): VN051986.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN051986.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN051986.D (-2903) (-)

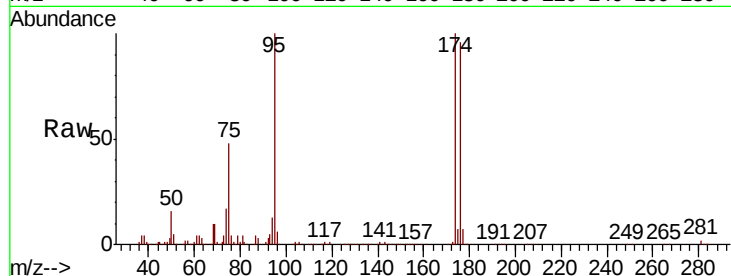




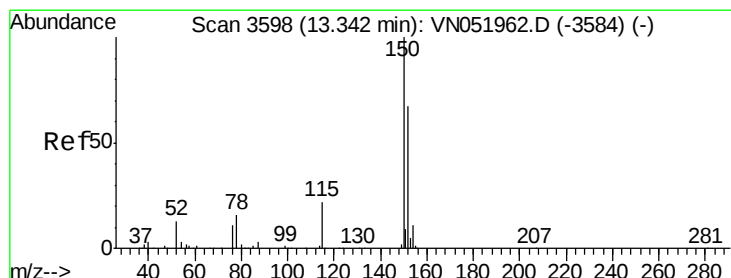
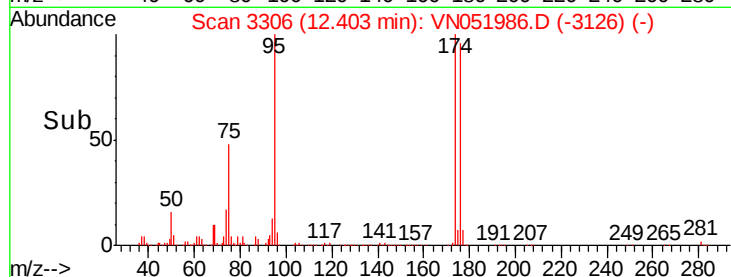
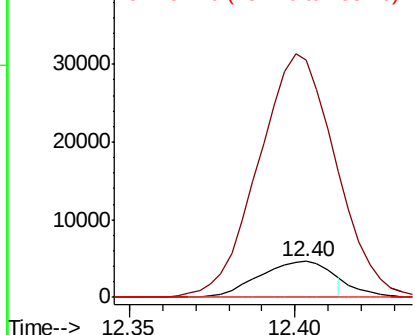
#71
Bromoform
Concen: 4.466 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051986.D
Acq: 24 Oct 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 6973
Ion Ratio Lower Upper
173 100
175 654.7 24.6 74.0#
254 0.0 0.1 0.1#

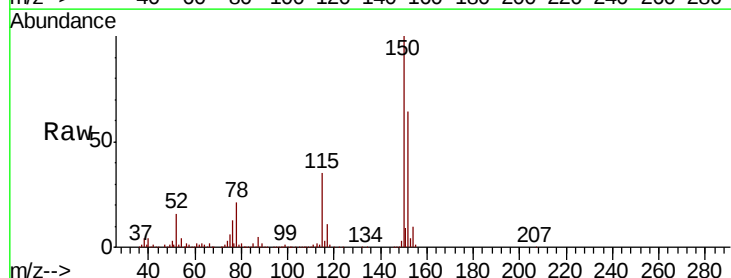


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

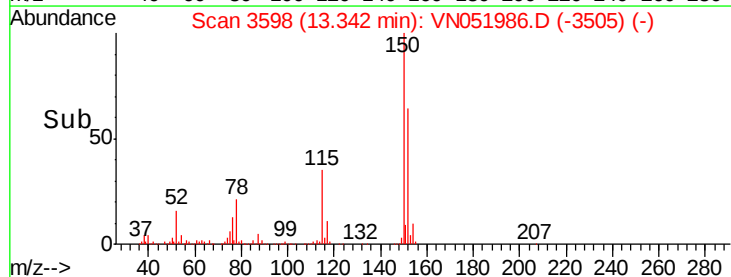
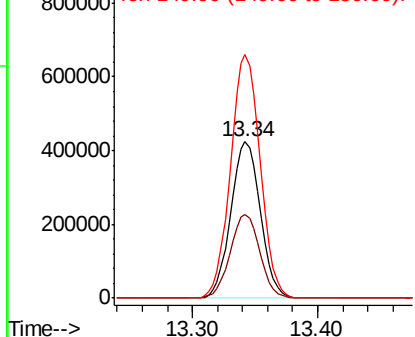


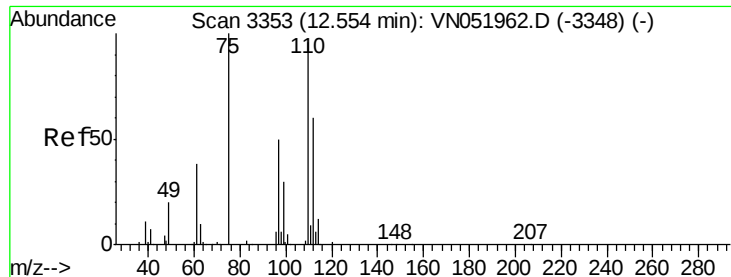
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN051986.D
Acq: 24 Oct 2018 14:27

Tgt Ion:152 Resp: 691773
Ion Ratio Lower Upper
152 100
115 53.4 25.8 77.3
150 156.5 0.0 344.4



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





#76

1,2,3-Trichloropropane

Concen: 48.504 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

Instrument :

MSVOA_N

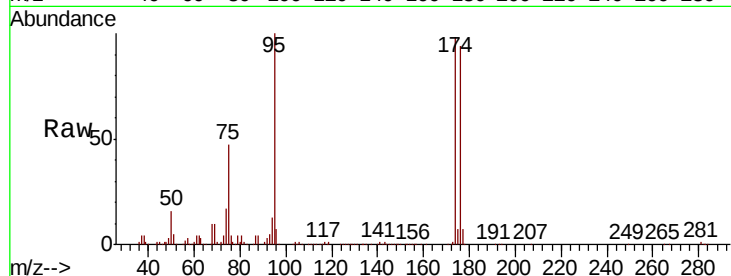
ClientSampled :

Tot Ion: 75 Resp: 346592

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

250000

200000

150000

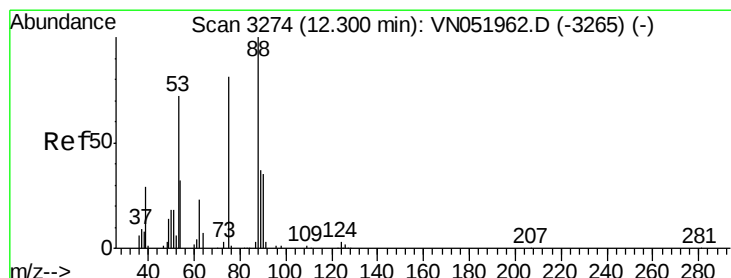
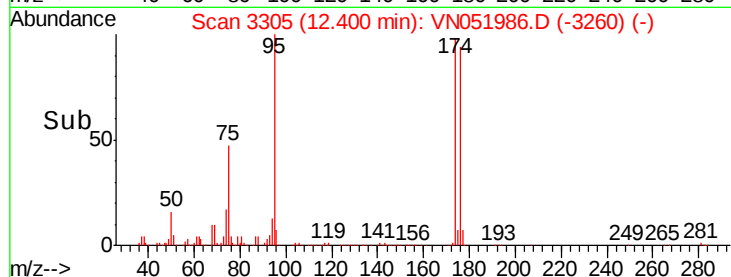
100000

50000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 152.518 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051986.D

Acq: 24 Oct 2018 14:27

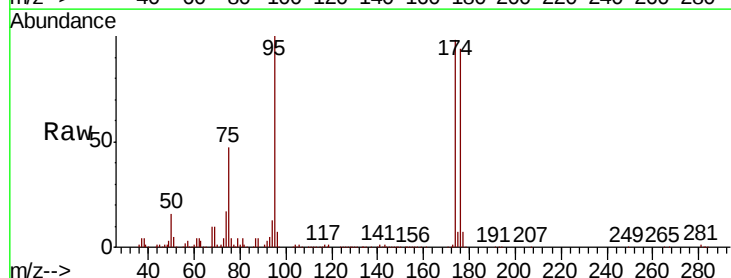
Tgt Ion: 75 Resp: 346592

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

250000

200000

150000

100000

50000

0

12.35 12.40 12.45

Time-->

