

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103118\
 Data File : VN052075.D
 Acq On : 31 Oct 2018 15:51
 Operator : MD\SY
 Sample : PB114328ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

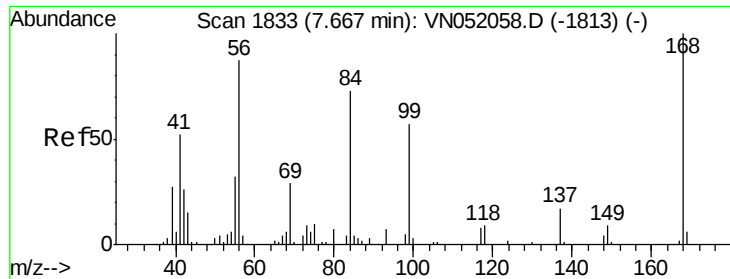
Quant Time: Nov 01 01:42:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	283229	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	526435	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	509066	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208482	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	240927	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	
35) Dibromofluoromethane	7.59	113	203481	61.79	ug/l	0.00
Spiked Amount			Recovery	=	123.58%	
50) Toluene-d8	10.09	98	797989	60.62	ug/l	0.00
Spiked Amount			Recovery	=	121.24%	
62) 4-Bromofluorobenzene	12.40	95	278770	57.69	ug/l	0.00
Spiked Amount			Recovery	=	115.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	60	24.275	ug/l #	75
16) Acetone	3.82	43	6403	6.600	ug/l	100
18) Methyl Acetate	4.33	43	3376	1.093	ug/l #	79
20) Methylene Chloride	4.54	84	5377	1.455	ug/l #	81
25) 2-Butanone	6.85	43	684	0.450	ug/l #	50
31) Cyclohexane	7.67	56	7659	Below Cal	#	4
36) 1,1-Dichloropropene	7.66	75	24607	4.597	ug/l #	45
38) Carbon Tetrachloride	7.67	117	32851	7.118	ug/l #	16
43) Isopropyl Acetate	8.17	43	166186	26.079	ug/l	100
48) Methyl methacrylate	9.18	41	4231	1.310	ug/l #	20
49) 1,4-Dioxane	9.23	88	69	27.544	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	814	0.235	ug/l #	38
54) cis-1,3-Dichloropropene	9.91	75	1221	0.202	ug/l #	67
59) 2-Hexanone	10.77	43	10448	4.233	ug/l #	59
71) Bromoform	12.39	173	1042	2.638	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	145980	38.251	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	145980	126.962	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.25	75	69	1.029	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052075.D

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Instrument :

MSVOA_N

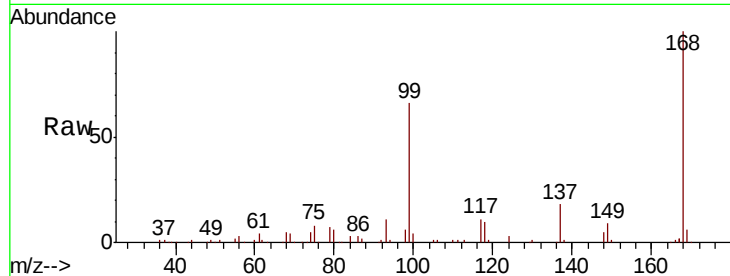
ClientSampled :

Tot Ion:168 Resp: 283229

Ion Ratio Lower Upper

168 100

99 65.7 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

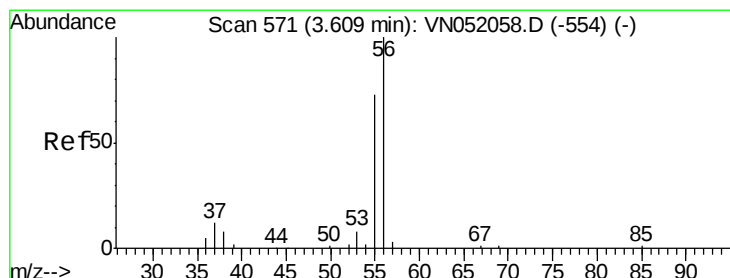
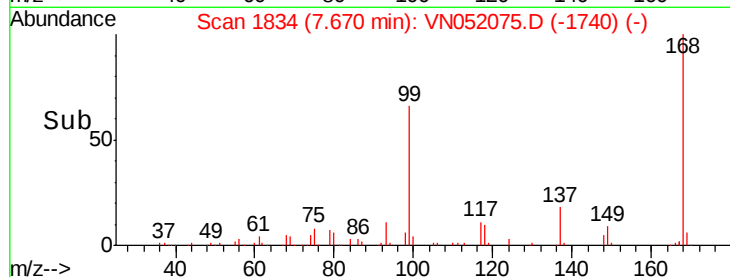
7.67

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#13

Acrolein

Concen: 24.275 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052075.D

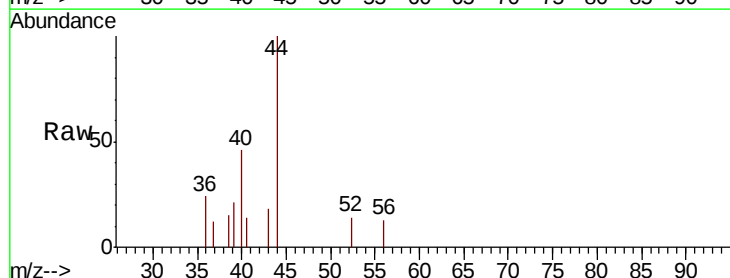
Acq: 31 Oct 2018 15:51

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 53.3 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

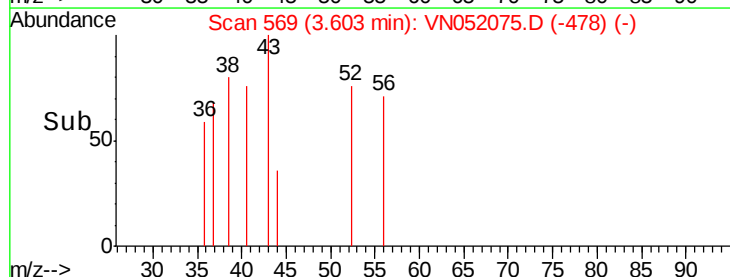
150

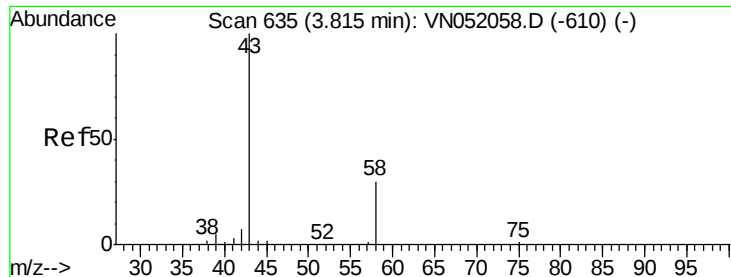
100

50

0

Time--> 3.59 3.60 3.61





#16

Acetone

Concen: 6.600 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

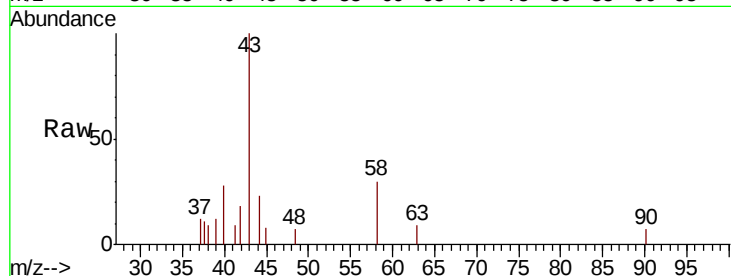
ClientSampleId :

Tot Ion: 43 Resp: 6403

Ion Ratio Lower Upper

43 100

58 30.4 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN052075.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052075.D (-542) (-)

3.82

2000

1500

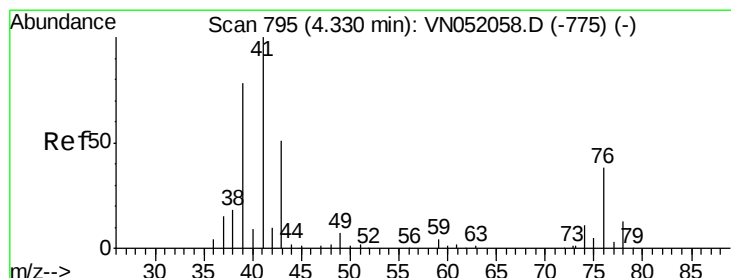
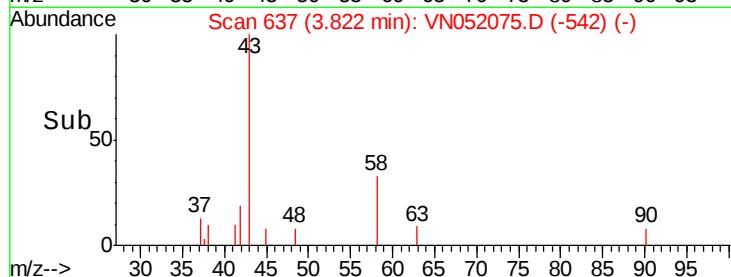
1000

500

0

3.70 3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: 1.093 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052075.D

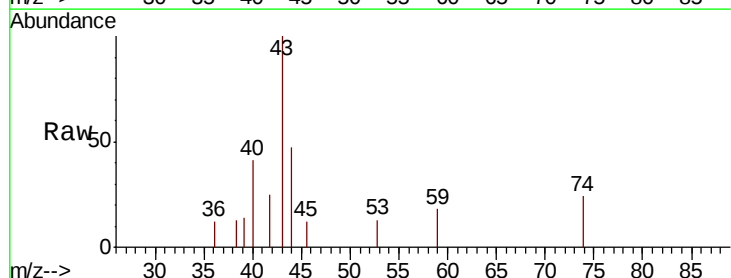
Acq: 31 Oct 2018 15:51

Tgt Ion: 43 Resp: 3376

Ion Ratio Lower Upper

43 100

74 12.1 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN052075.D (-702) (-)

Ion 74.00 (73.70 to 74.70): VN052075.D (-702) (-)

4.33

1500

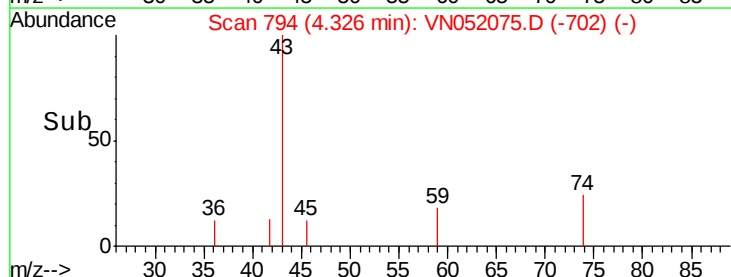
1000

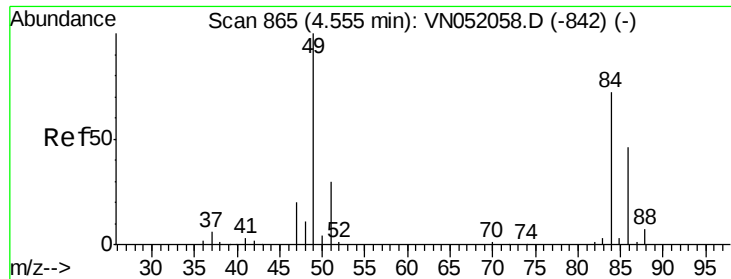
500

0

4.30 4.35

Time-->

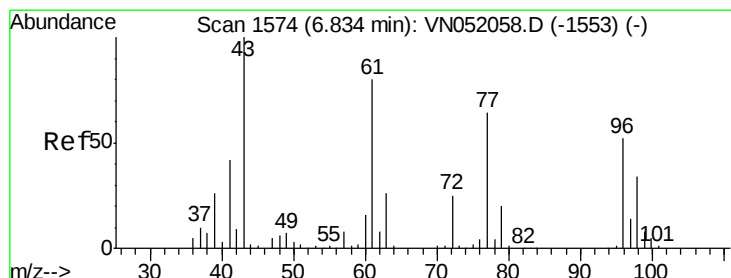
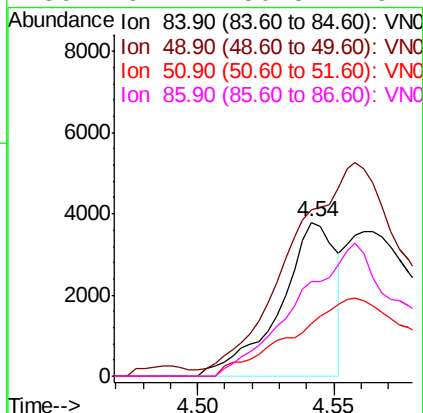
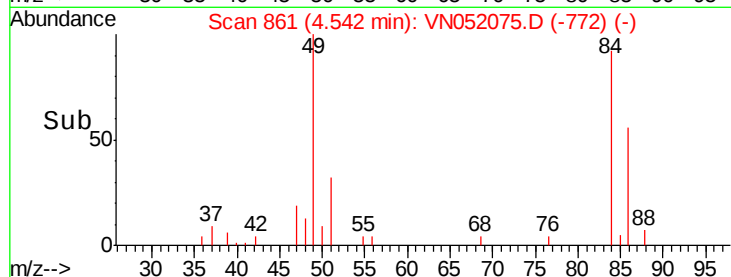
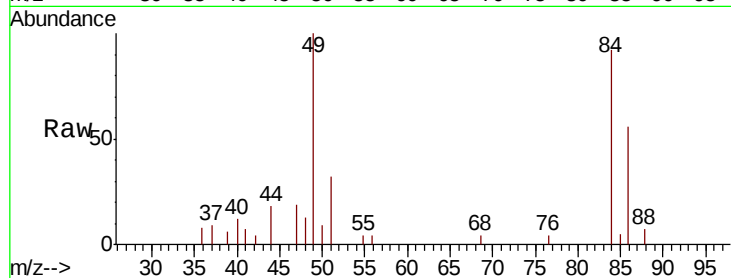




#20
Methvlene Chloride
Concen: 1.455 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

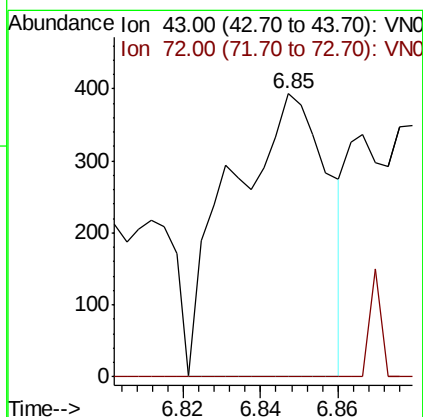
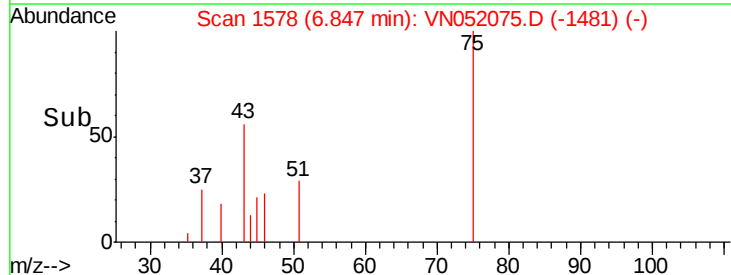
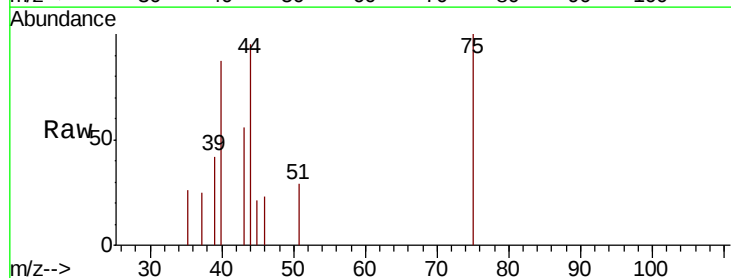
Instrument :
MSVOA_N
ClientSampleId :

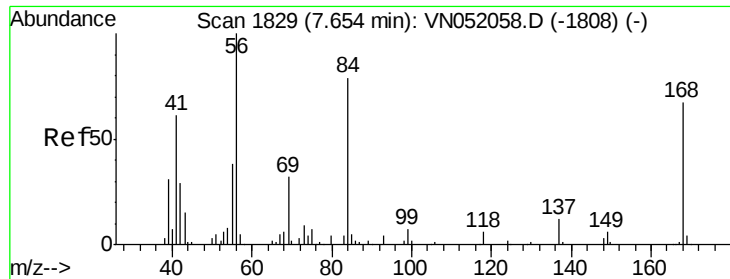
Tot Ion: 84 Resp: 5377
Ion Ratio Lower Upper
84 100
49 104.3 110.6 165.8#
51 34.4 33.7 50.5
86 61.1 50.5 75.7



#25
2-Butanone
Concen: 0.450 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

Tgt Ion: 43 Resp: 684
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#

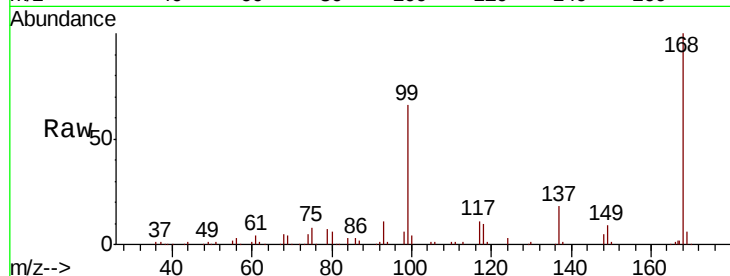




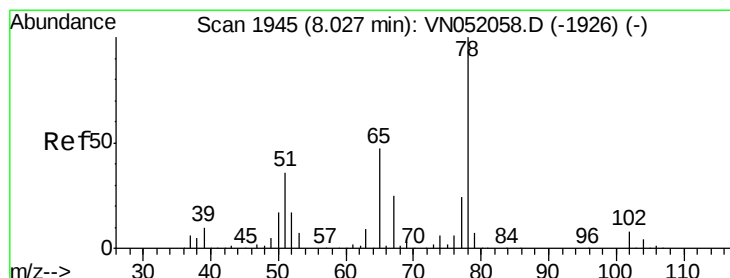
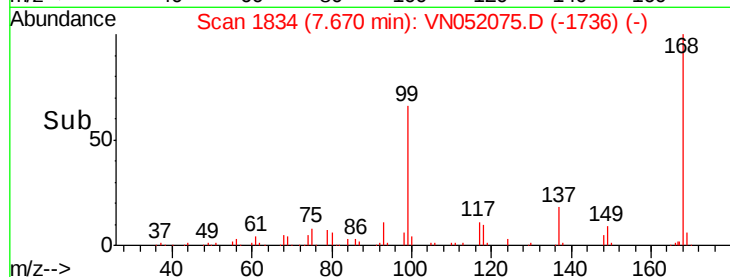
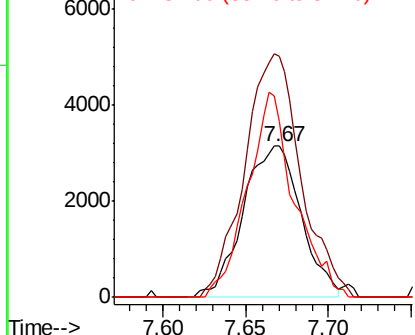
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7659
Ion Ratio Lower Upper
56 100
69 159.6 25.8 38.6#
84 116.5 63.5 95.3#

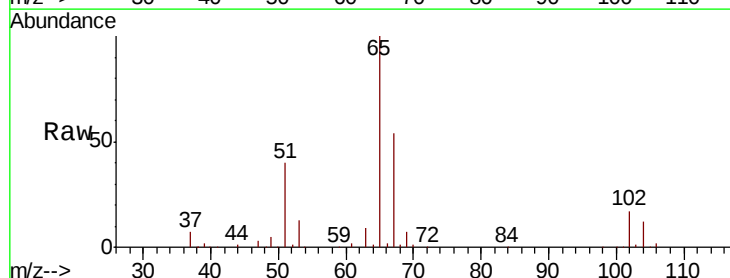


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

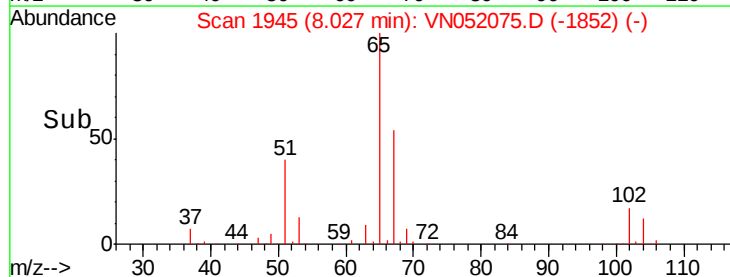
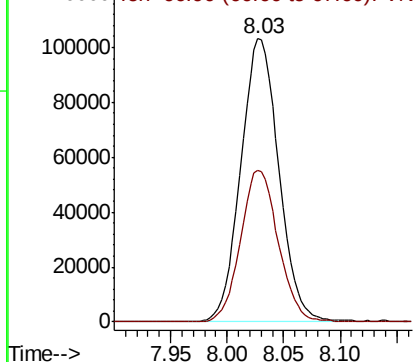


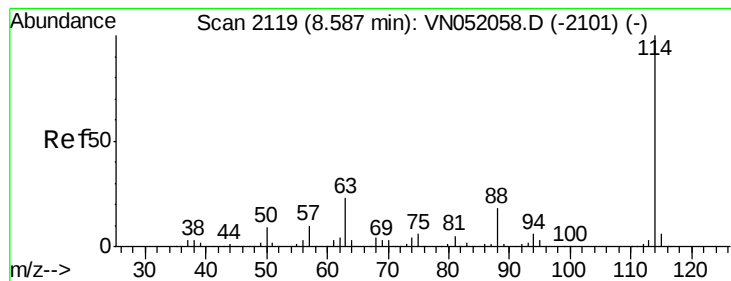
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

Tgt Ion: 65 Resp: 240927
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

ClientSampleId :

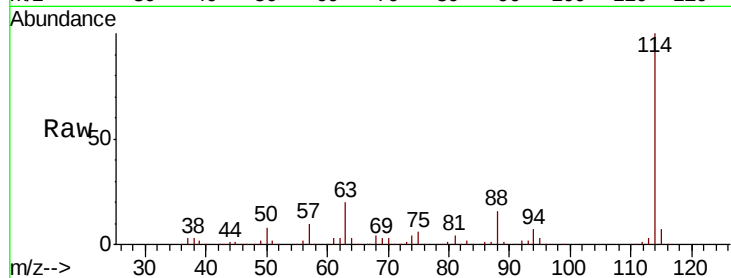
Tot Ion:114 Resp: 526435

Ion Ratio Lower Upper

114 100

63 20.2 0.0 46.0

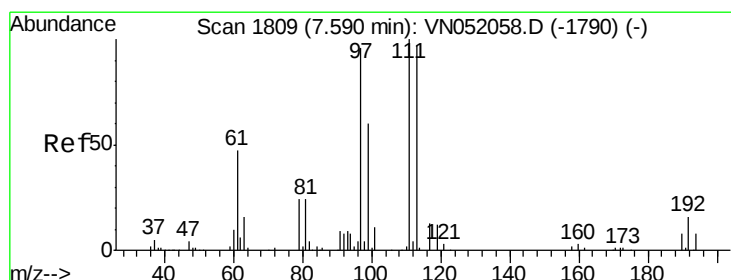
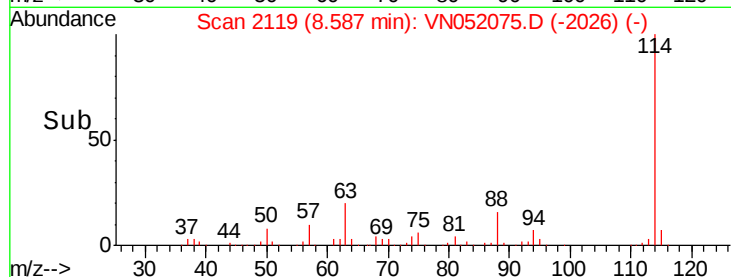
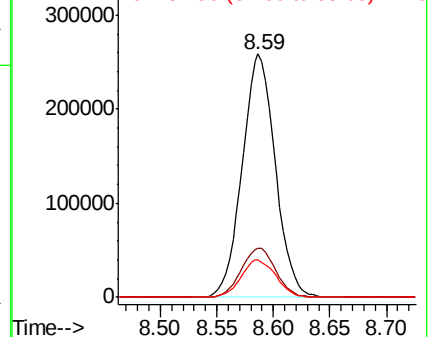
88 15.6 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

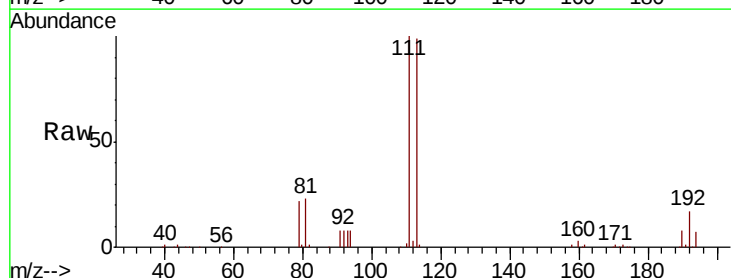
Tgt Ion:113 Resp: 203481

Ion Ratio Lower Upper

113 100

111 102.2 83.1 124.7

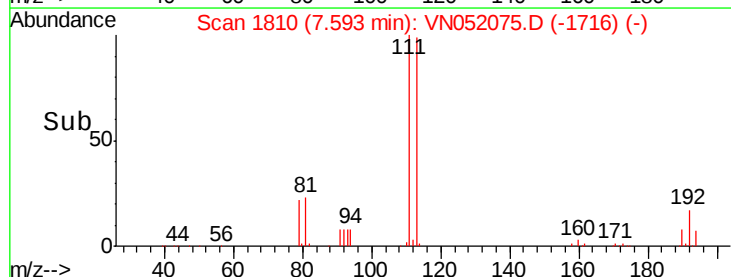
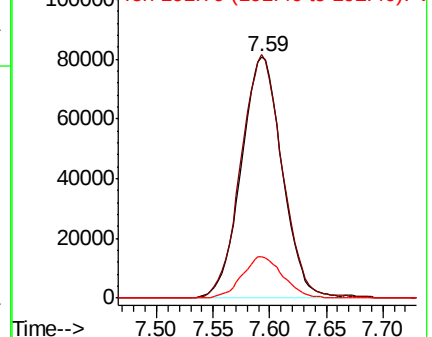
192 17.0 12.7 19.1

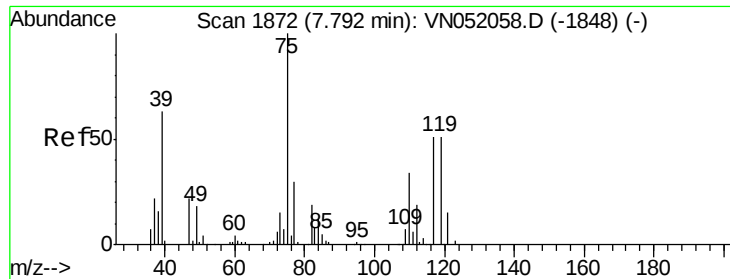


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

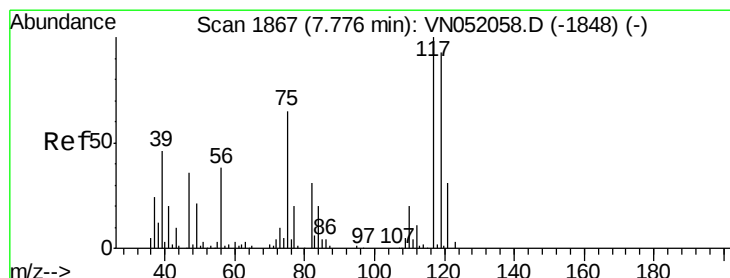
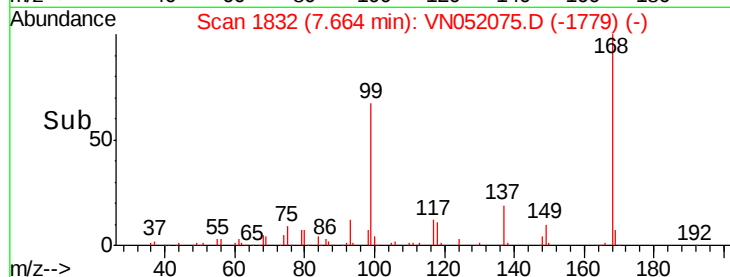
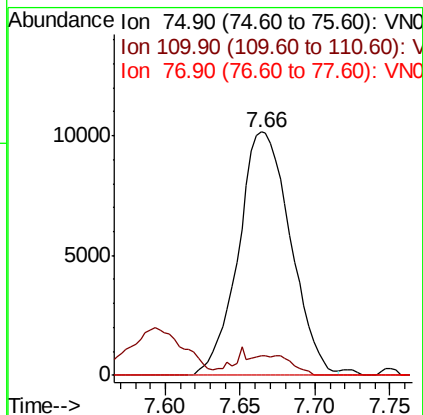
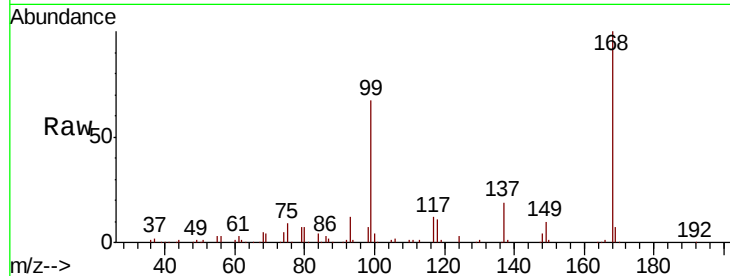




#36
 1,1-Dichloropropene
 Concen: 4.597 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052075.D
 Acq: 31 Oct 2018 15:51

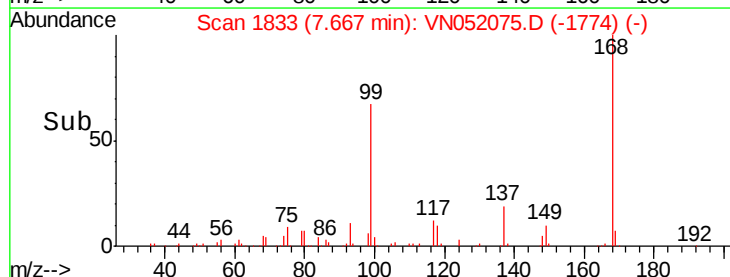
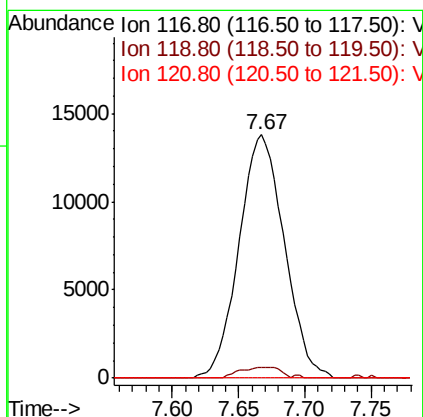
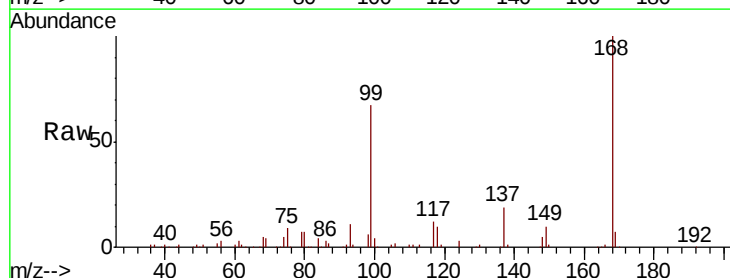
Instrument :
 MSVOA_N
 ClientSampled :

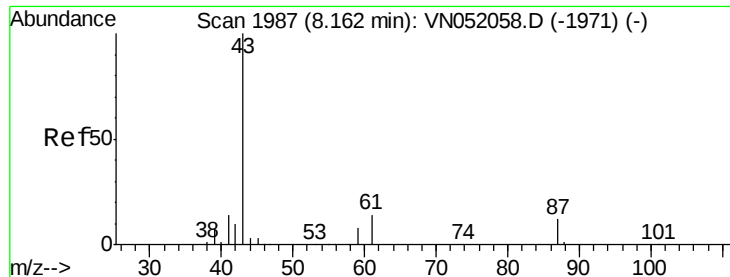
Tot Ion	Ratio	Lower	Upper
75	100		
110	2.0	16.0	48.0#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 7.118 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052075.D
 Acq: 31 Oct 2018 15:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	74.8	112.2#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 26.079 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

ClientSampleId :

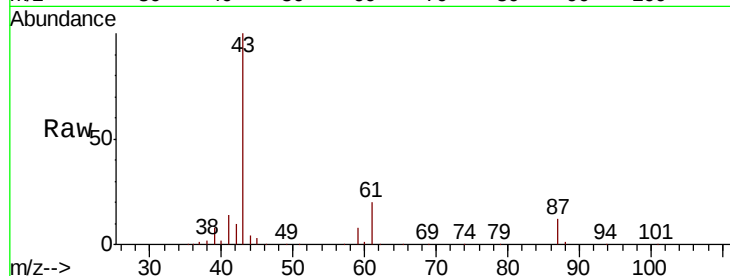
Tot Ion: 43 Resp: 166186

Ion Ratio Lower Upper

43 100

61 19.3 15.4 23.0

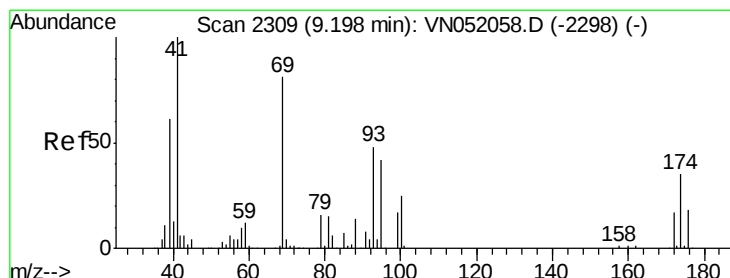
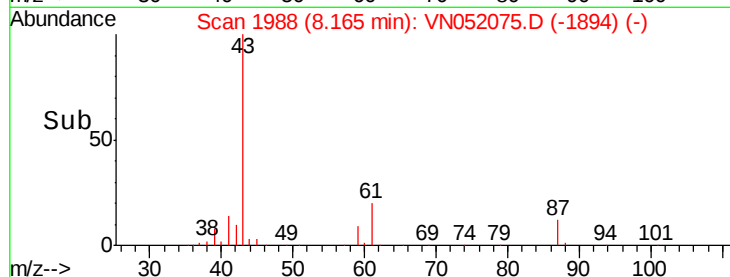
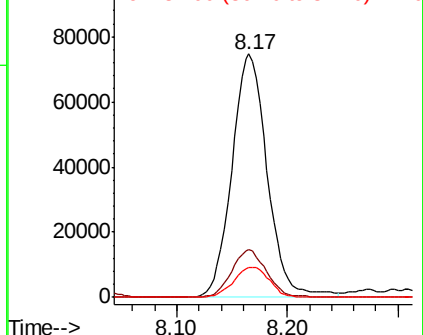
87 12.4 9.8 14.8



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: 1.310 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

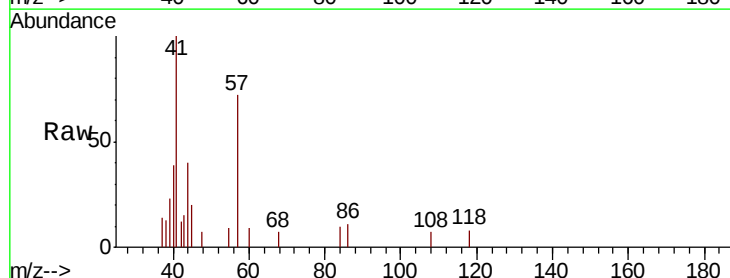
Tgt Ion: 41 Resp: 4231

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

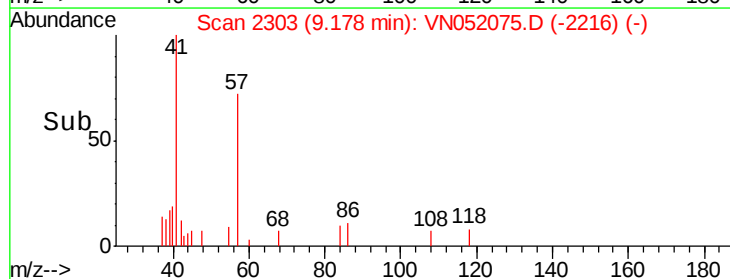
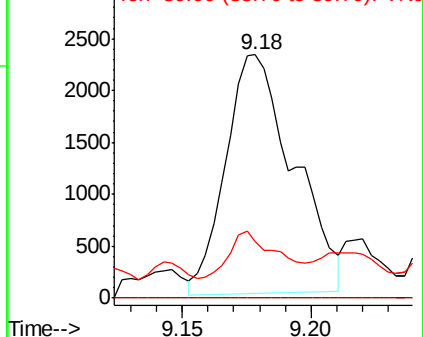
39 13.8 50.5 75.7#

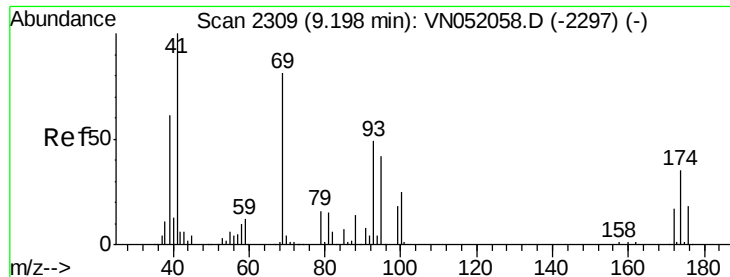


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 27.544 ug/l

RT: 9.23 min Scan# 2318

Delta R.T. 0.03 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

ClientSampled :

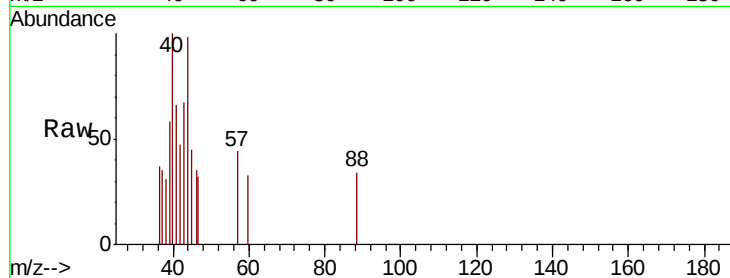
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 0.0 34.1 51.1#

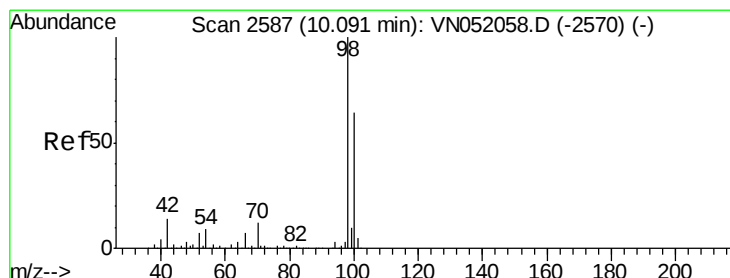
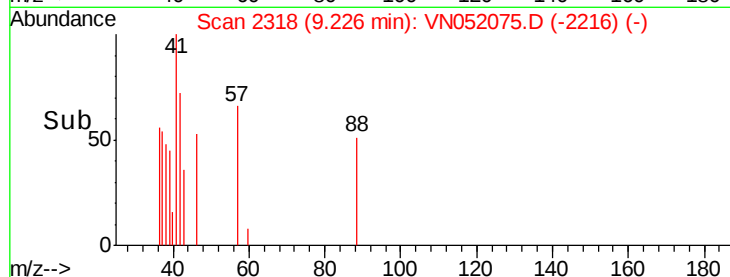
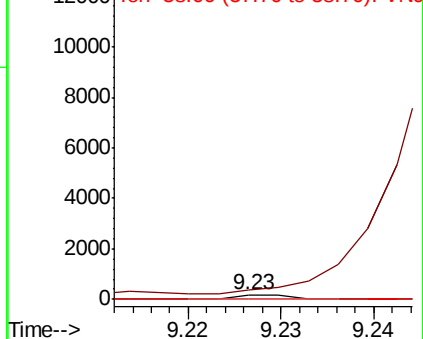
58 0.0 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN052075.D (-2216) (-)

Ion 43.00 (42.70 to 43.70): VN052075.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN052075.D (-2216) (-)



#50

Toluene-d8

Concen: 27.544 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052075.D

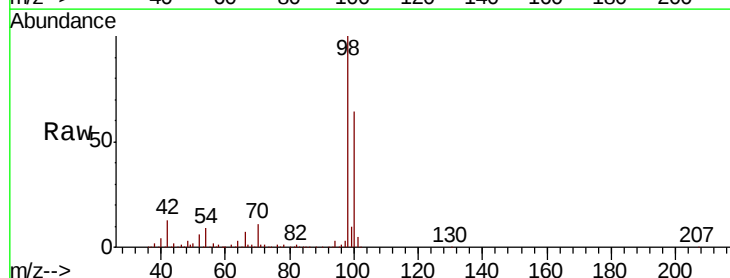
Acq: 31 Oct 2018 15:51

Tgt Ion: 98 Resp: 797989

Ion Ratio Lower Upper

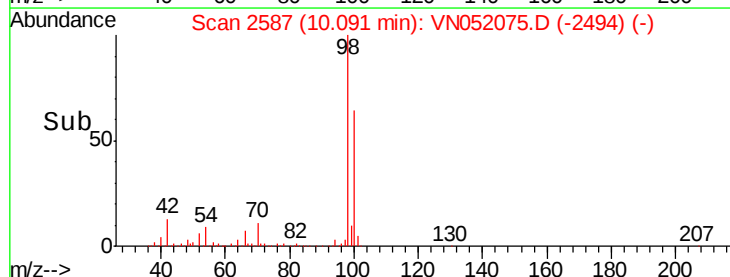
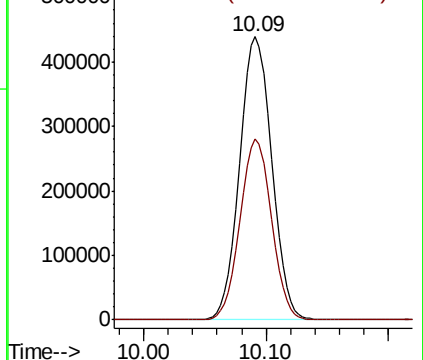
98 100

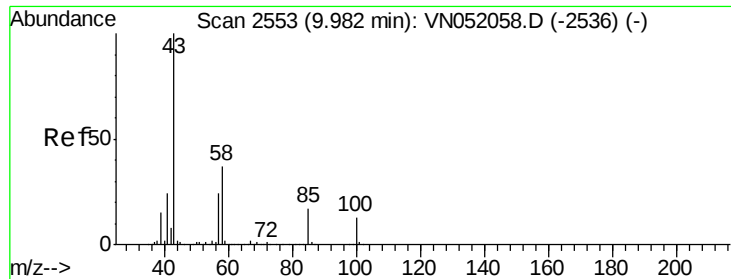
100 62.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052075.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052075.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.235 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

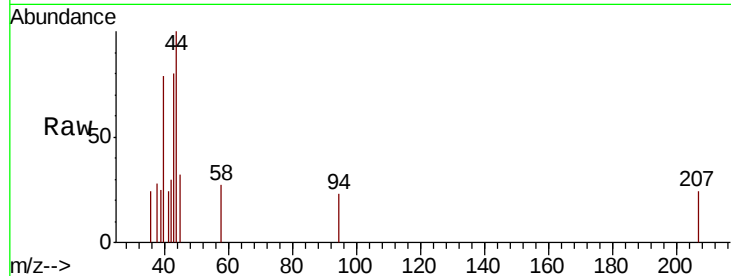
ClientSampled :

Tot Ion: 43 Resp: 814

Ion Ratio Lower Upper

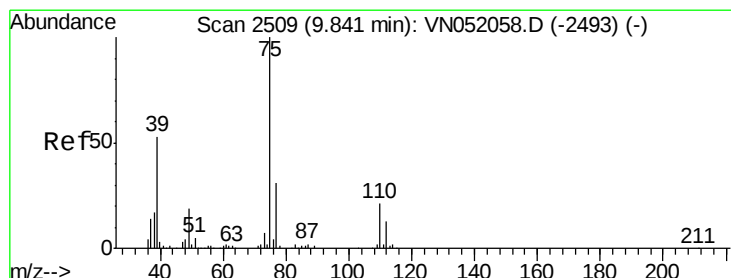
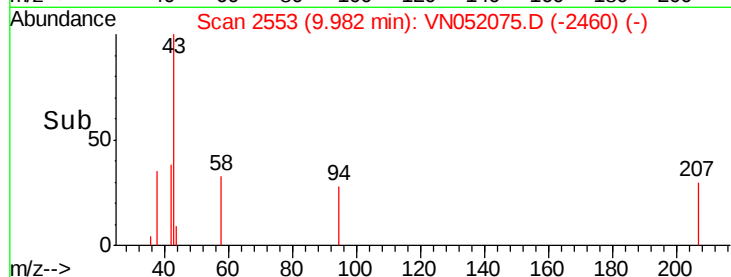
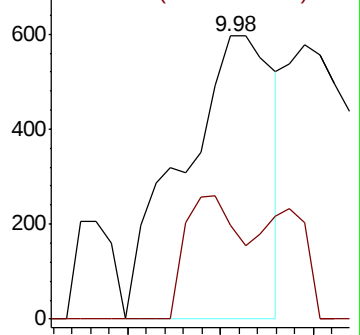
43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 0.202 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

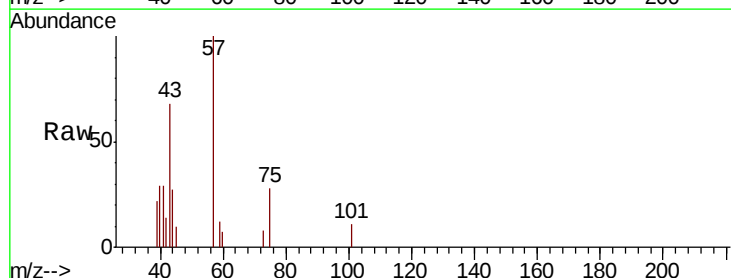
Tgt Ion: 75 Resp: 1221

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

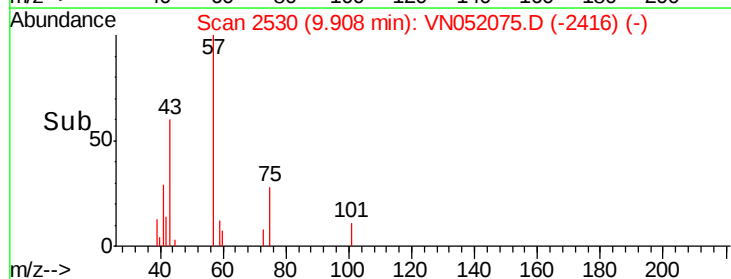
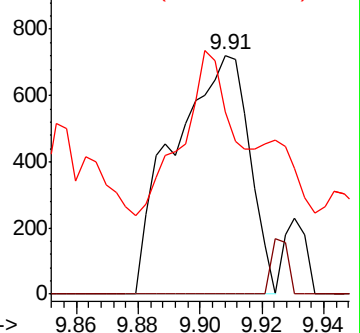
39 39.5 42.3 63.5#

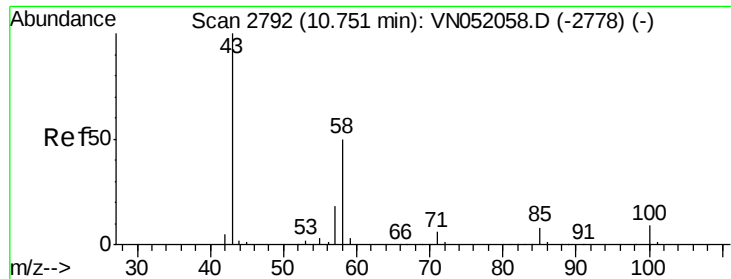


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

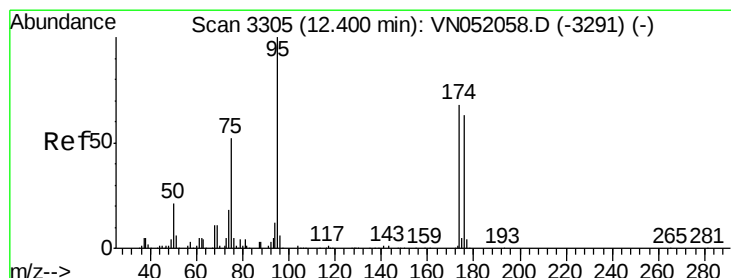
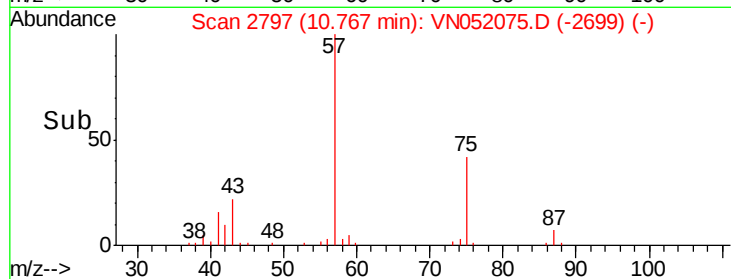
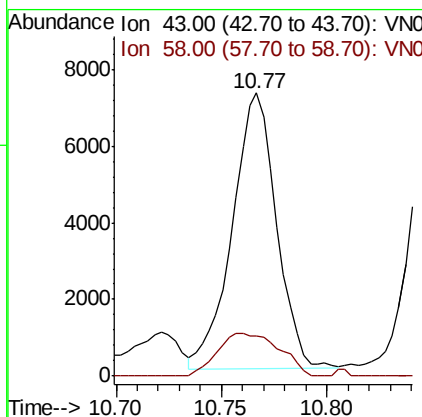
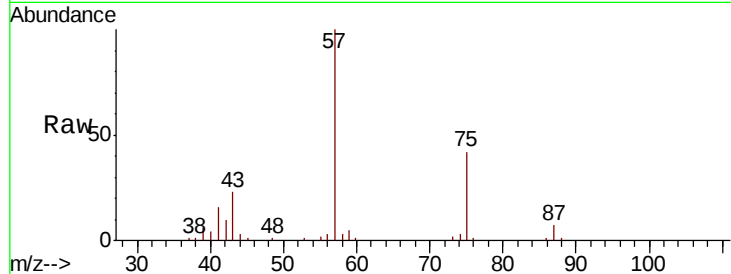




#59
2-Hexanone
Concen: 4.233 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

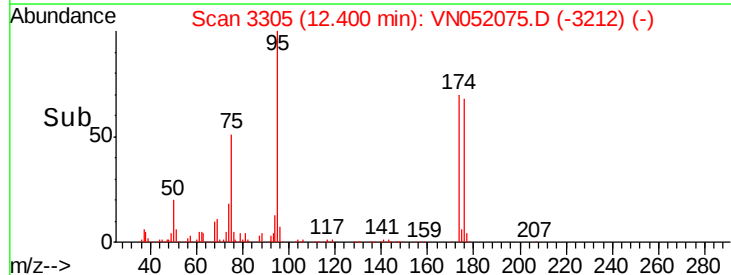
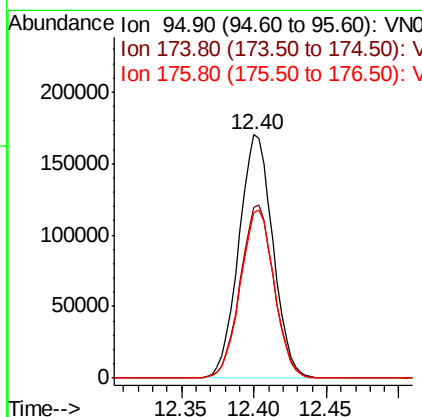
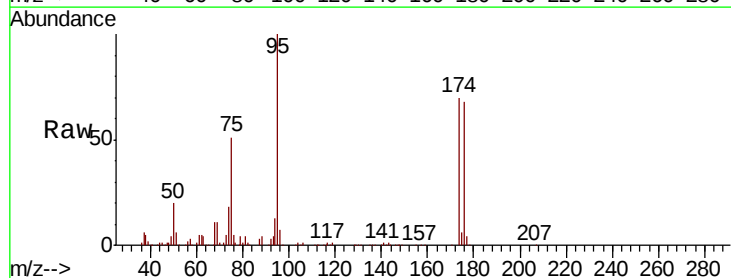
Instrument :
MSVOA_N
ClientSampled :

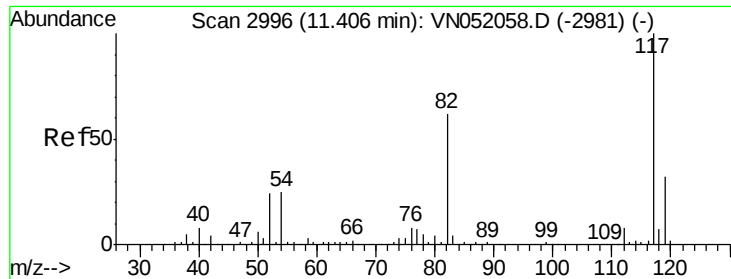
Tot Ion: 43 Resp: 10448
Ion Ratio Lower Upper
43 100
58 21.8 25.2 75.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

Tgt Ion: 95 Resp: 278770
Ion Ratio Lower Upper
95 100
174 70.3 0.0 131.8
176 68.4 0.0 126.0

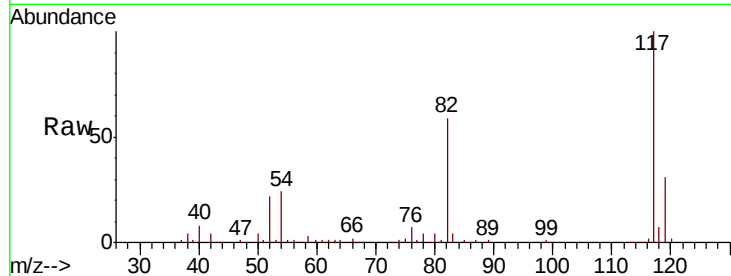




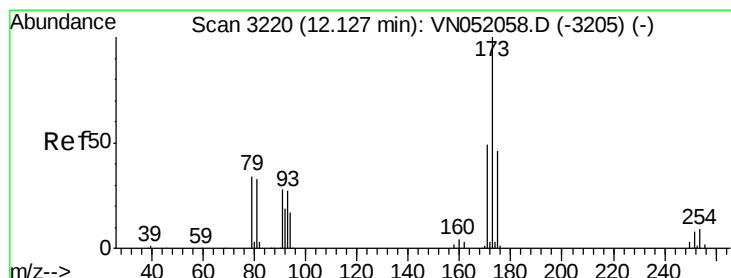
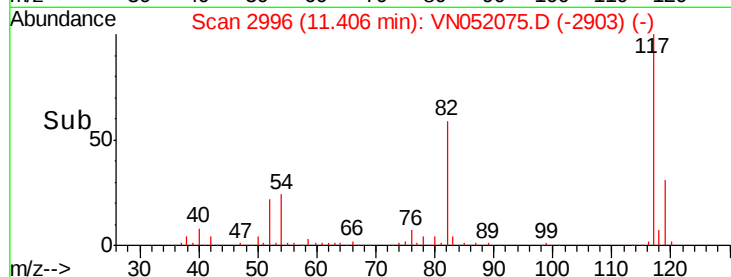
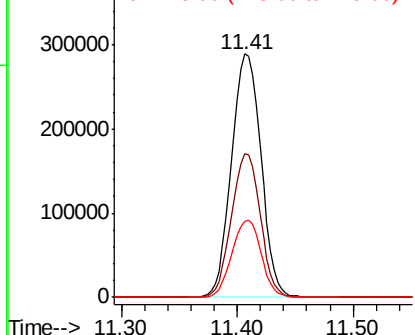
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 509066
Ion Ratio Lower Upper
117 100
82 58.9 49.9 74.9
119 31.5 25.7 38.5

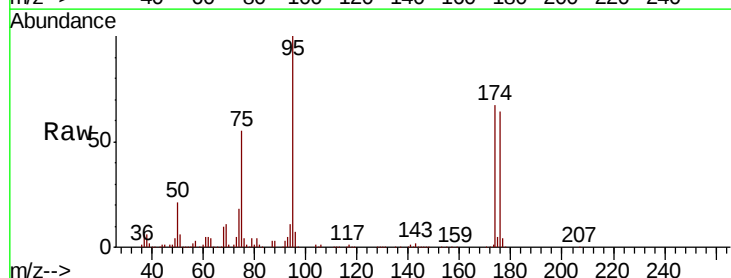


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

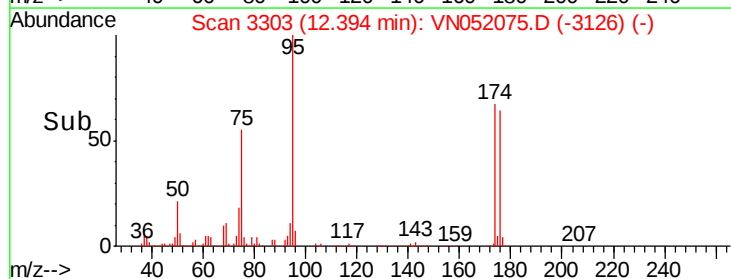
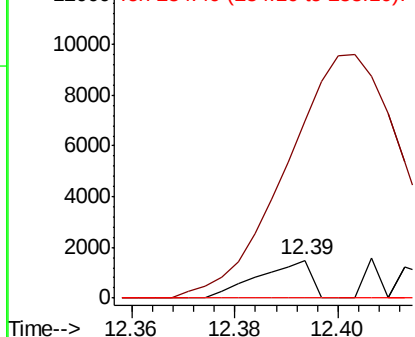


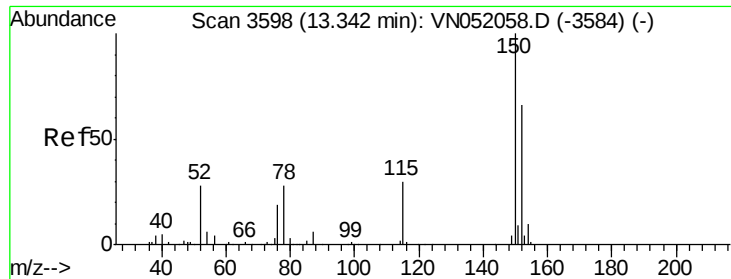
#71
Bromoform
Concen: 2.638 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN052075.D
Acq: 31 Oct 2018 15:51

Tgt Ion:173 Resp: 1042
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.7#
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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

ClientSampled :

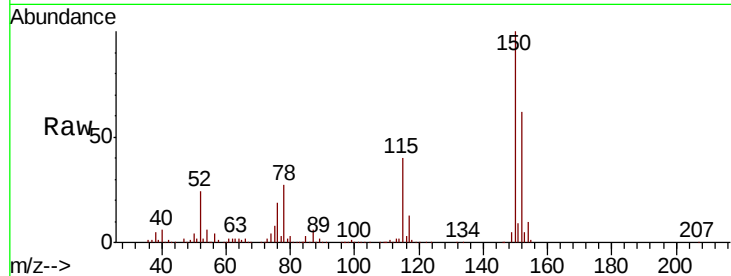
Tot Ion:152 Resp: 208482

Ion Ratio Lower Upper

152 100

115 65.9 31.6 95.0

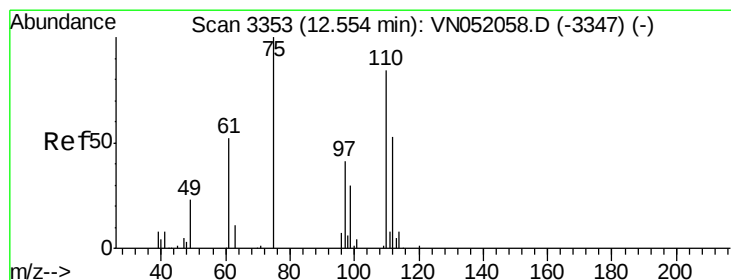
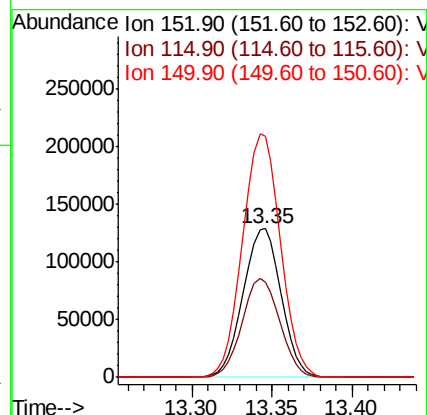
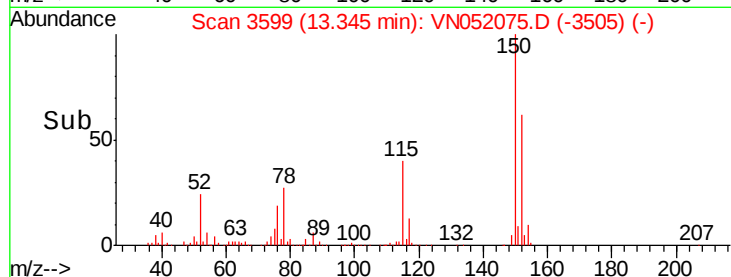
150 163.0 0.0 345.0



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: 38.251 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052075.D

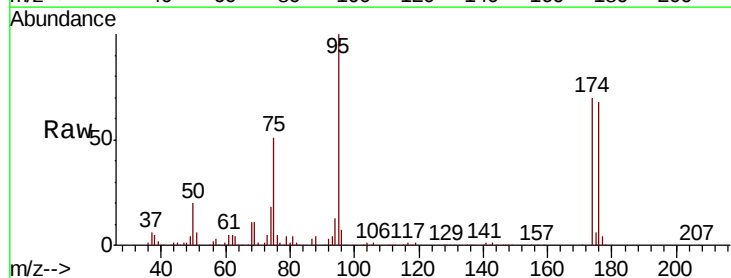
Acq: 31 Oct 2018 15:51

Tgt Ion: 75 Resp: 145980

Ion Ratio Lower Upper

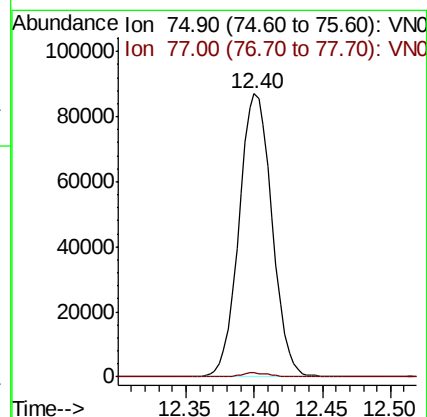
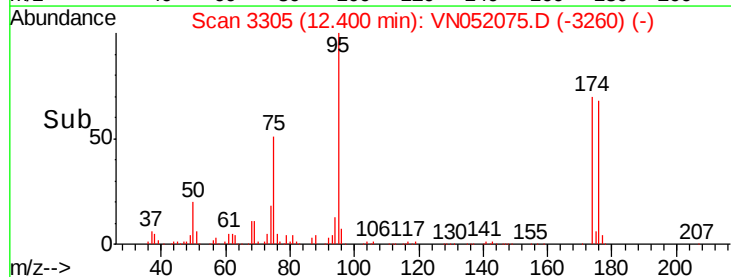
75 100

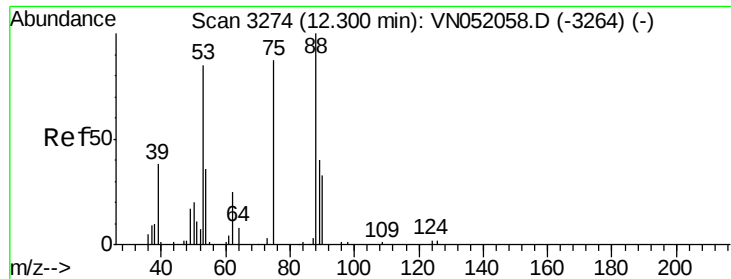
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 126.962 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

Instrument :

MSVOA_N

ClientSampled :

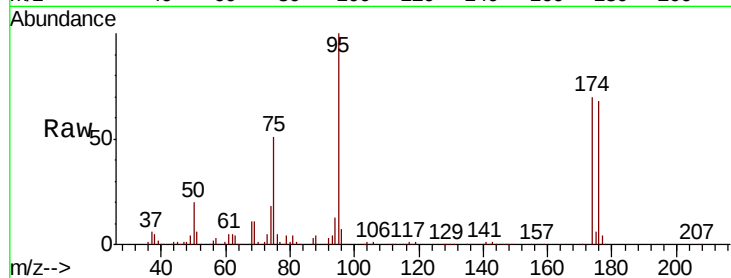
Tot Ion: 75 Resp: 145980

Ion Ratio Lower Upper

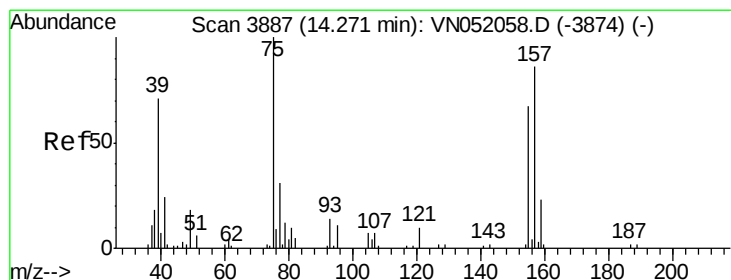
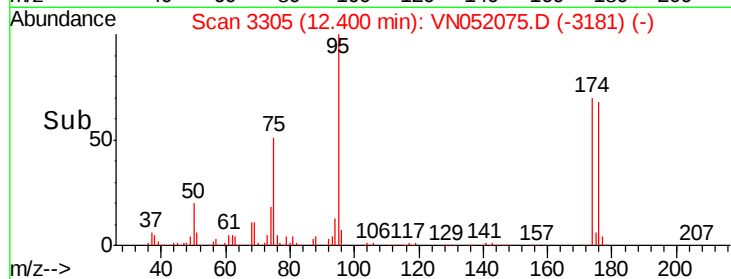
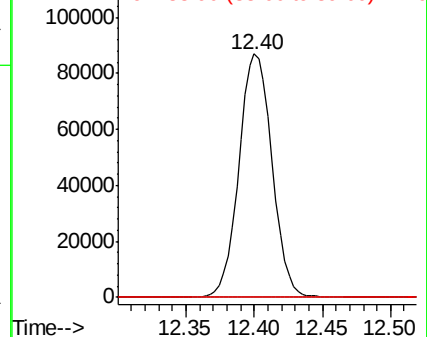
75 100

53 0.0 81.8 122.6#

89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.029 ug/l

RT: 14.25 min Scan# 3881

Delta R.T. -0.02 min

Lab File: VN052075.D

Acq: 31 Oct 2018 15:51

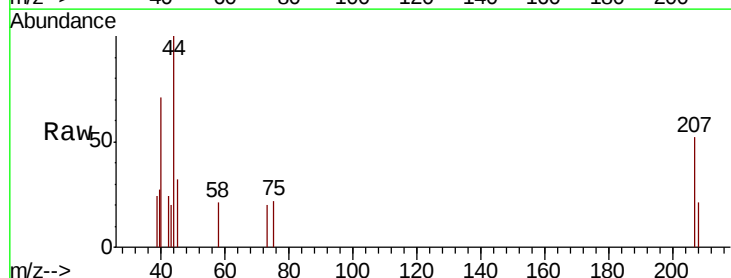
Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

