

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020720\
 Data File : VN060025.D
 Acq On : 7 Feb 2020 12:44
 Operator : JC/MD
 Sample : L1431-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 23:13:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	299339	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	282446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	130361	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	111071	52.58	ug/l	0.00
Spiked Amount						
				Recovery	=	105.16%
35) Dibromofluoromethane	7.57	113	92038	51.56	ug/l	0.00
Spiked Amount						
				Recovery	=	103.12%
50) Toluene-d8	10.08	98	363991	52.63	ug/l	0.00
Spiked Amount						
				Recovery	=	105.26%
62) 4-Bromofluorobenzene	12.40	95	132319	53.07	ug/l	0.00
Spiked Amount						
				Recovery	=	106.14%

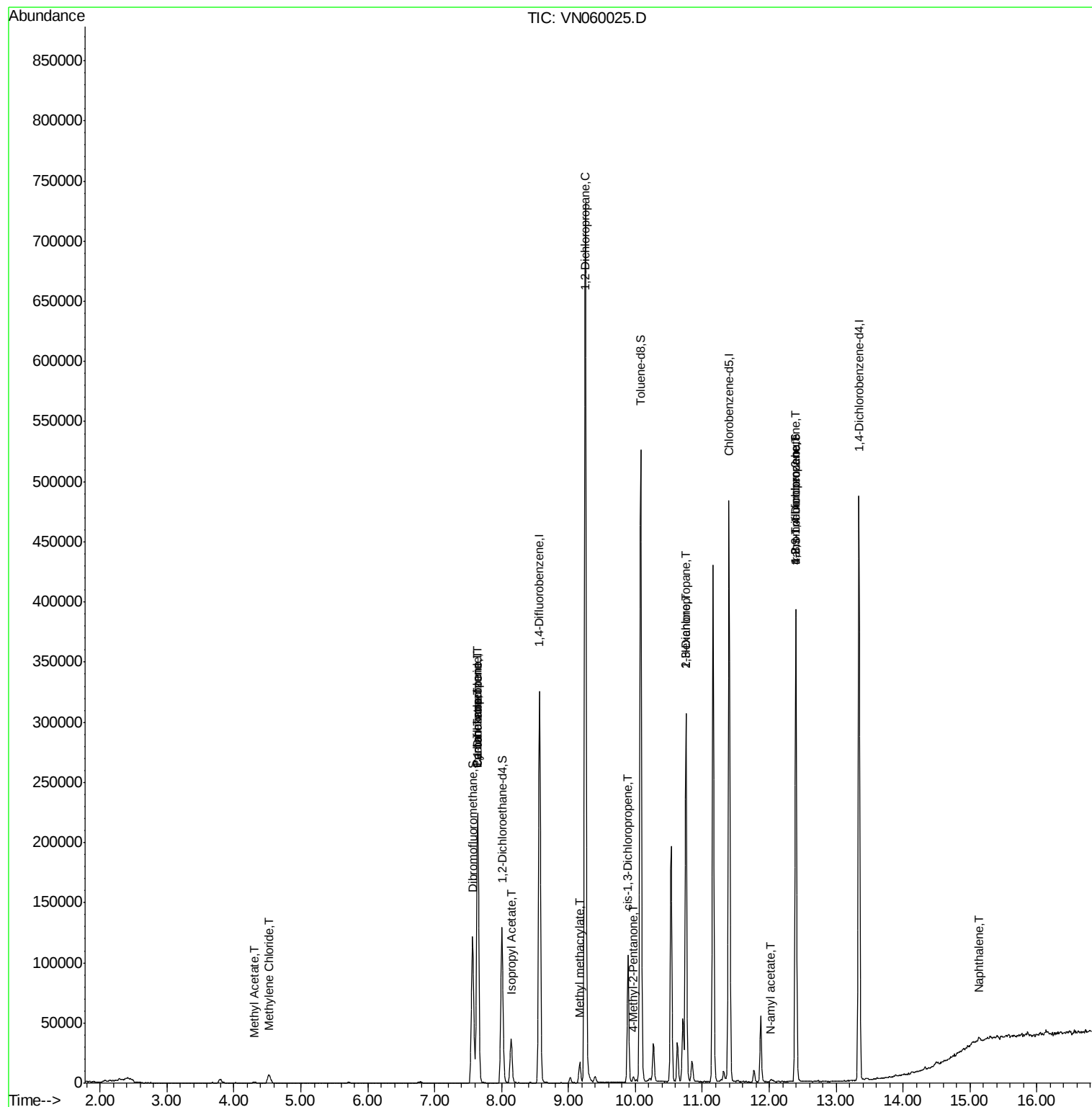
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5651	Below Cal		100
18) Methyl Acetate	4.30	43	1345	0.545	ug/l #	54
20) Methylene Chloride	4.53	84	5921	1.852	ug/l	91
31) Cyclohexane	7.64	56	3917	1.253	ug/l #	8
36) 1,1-Dichloropropene	7.64	75	13750	5.275	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18236	6.431	ug/l #	17
43) Isopropyl Acetate	8.14	43	43477	10.339	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	808	0.420	ug/l #	44
48) Methyl methacrylate	9.16	41	2507	1.333	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2961	1.218	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	19684	6.127	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3233	1.047	ug/l #	42
59) 2-Hexanone	10.75	43	43672	24.385	ug/l #	55
74) N-amyl acetate	12.02	43	2048	0.552	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67924	30.961	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	67924	66.489	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.33	75	95	Below Cal	#	6
95) Naphthalene	15.14	128	3512	0.494	ug/l #	88

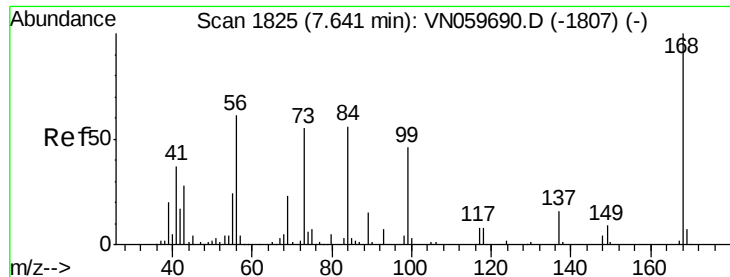
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 18 03:09:32 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

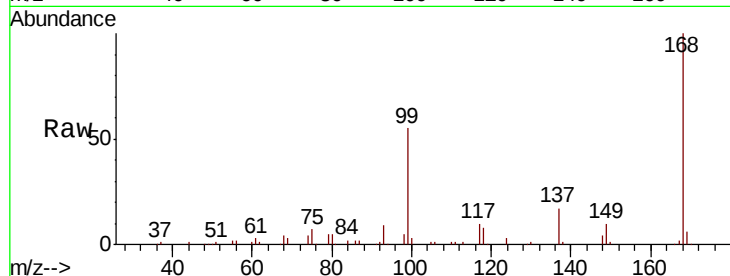
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 190215

Ion Ratio Lower Upper

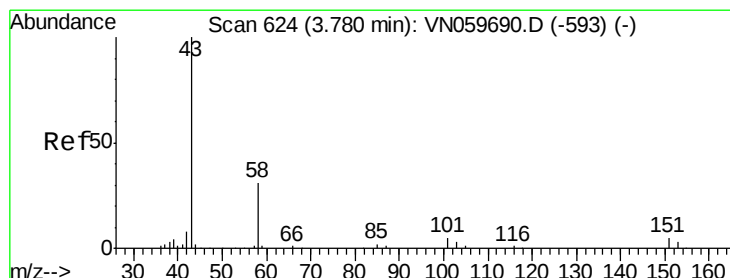
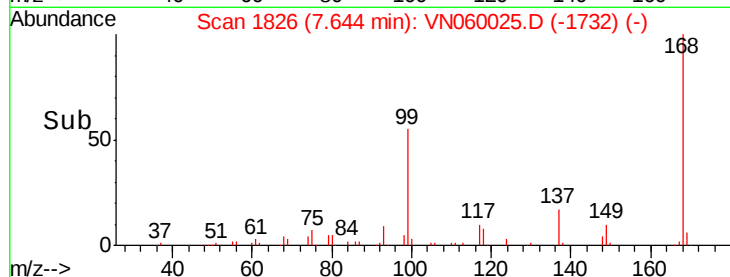
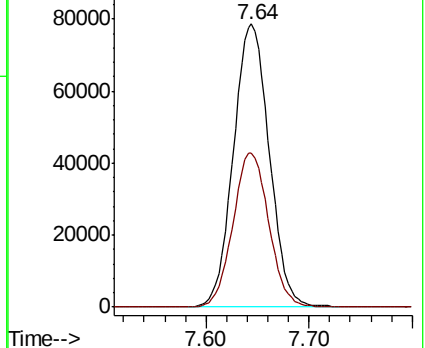
168 100

99 54.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060025.D

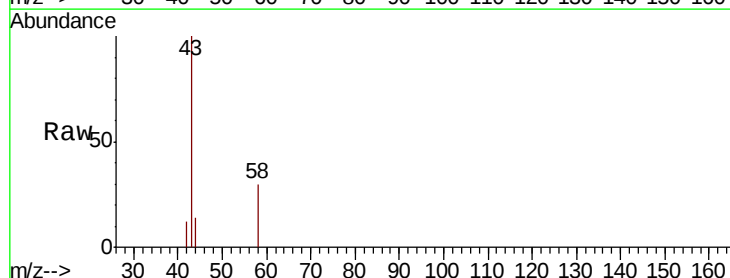
Acq: 7 Feb 2020 12:44

Tgt Ion: 43 Resp: 5651

Ion Ratio Lower Upper

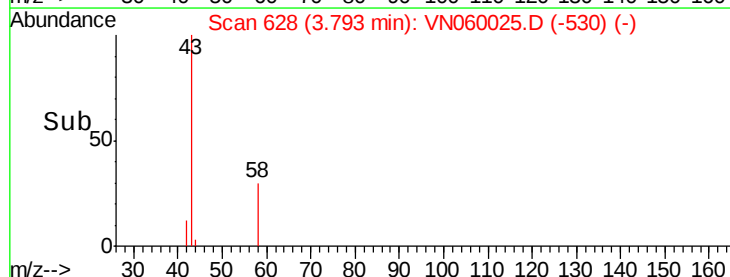
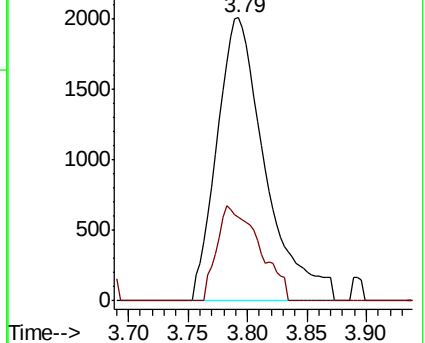
43 100

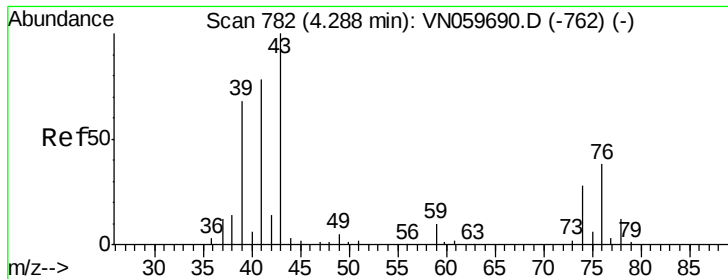
58 29.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

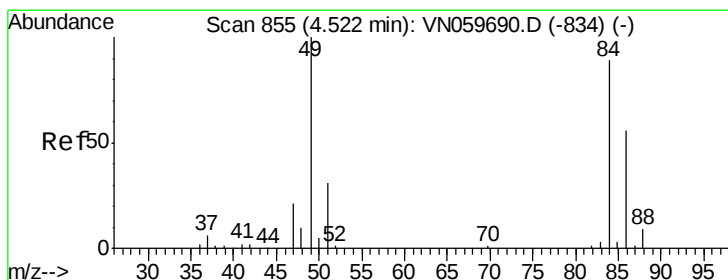
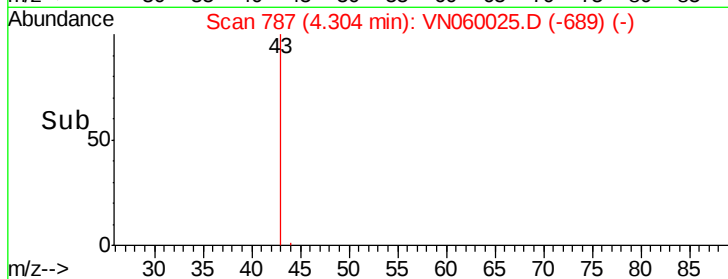
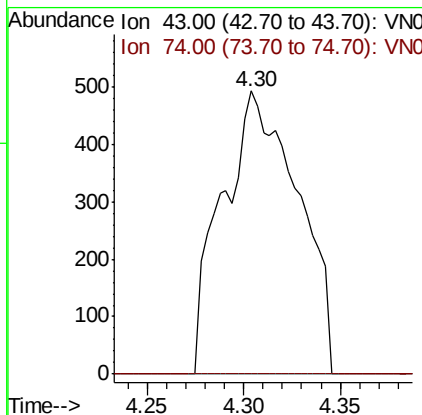
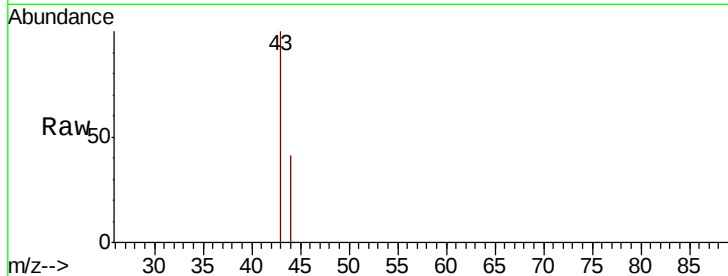




#18
Methyl Acetate
Concen: 0.545 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060025.D
Acq: 7 Feb 2020 12:44

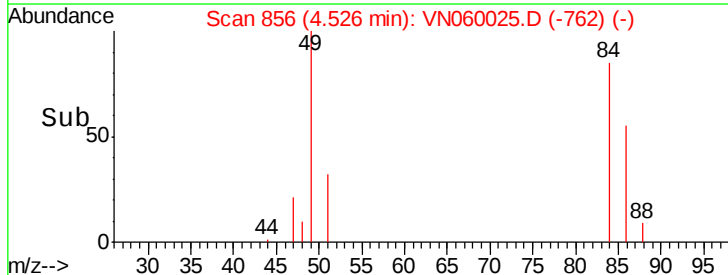
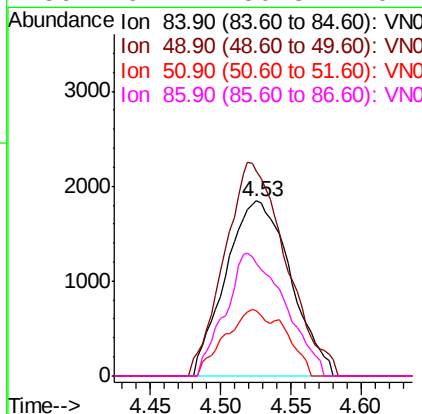
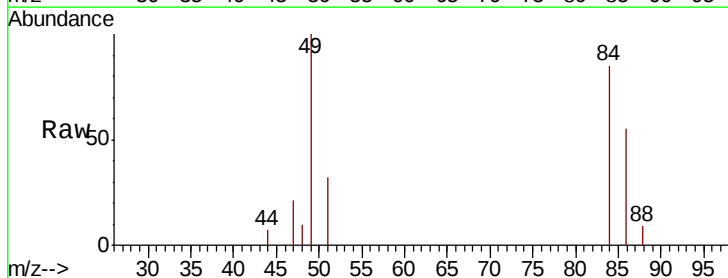
Instrument :
MSVOA_N
ClientSampled :

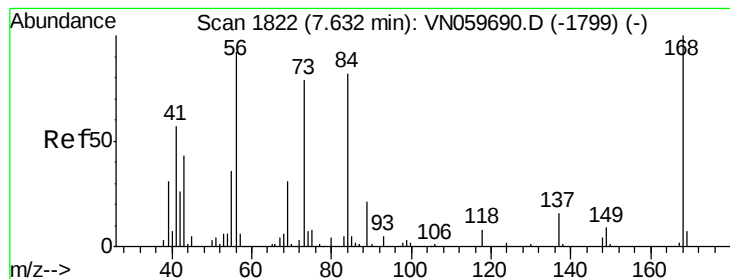
Tot Ion: 43 Resp: 1345
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.852 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060025.D
Acq: 7 Feb 2020 12:44

Tgt Ion: 84 Resp: 5921
Ion Ratio Lower Upper
84 100
49 117.2 106.6 160.0
51 37.0 31.9 47.9
86 64.4 50.8 76.2





#31

Cyclohexane

Concen: 1.253 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Instrument :

MSVOA_N

ClientSampled :

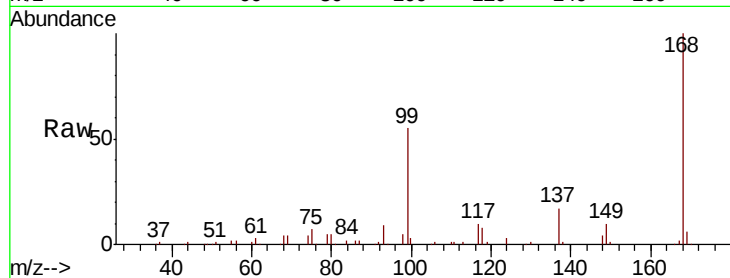
Tot Ion: 56 Resp: 3917

Ion Ratio Lower Upper

56 100

69 168.0 26.5 39.7#

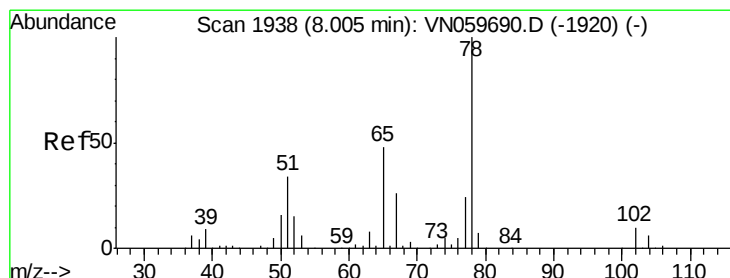
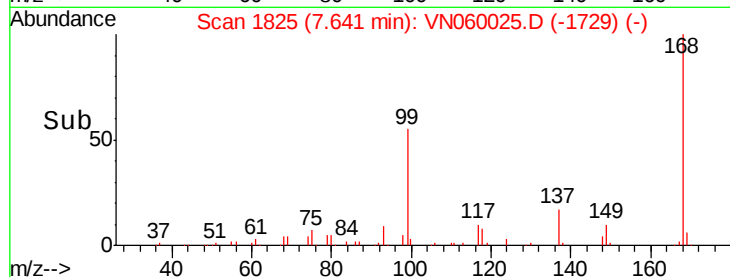
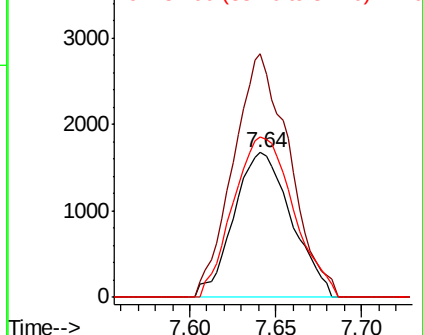
84 110.4 65.3 97.9#



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



#33

1,2-Dichloroethane-d4

Concen: 52.581 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060025.D

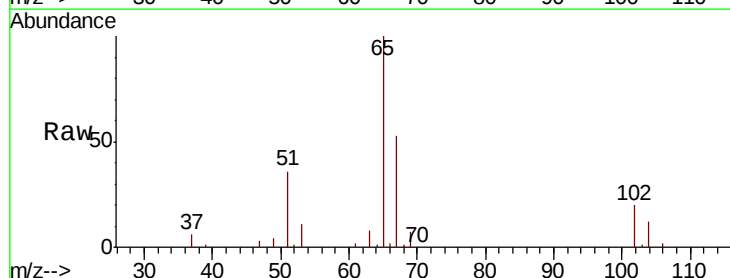
Acq: 7 Feb 2020 12:44

Tgt Ion: 65 Resp: 111071

Ion Ratio Lower Upper

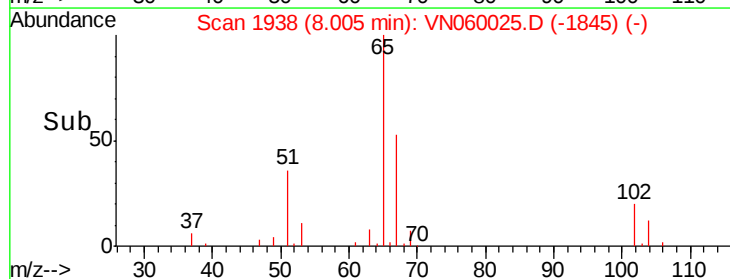
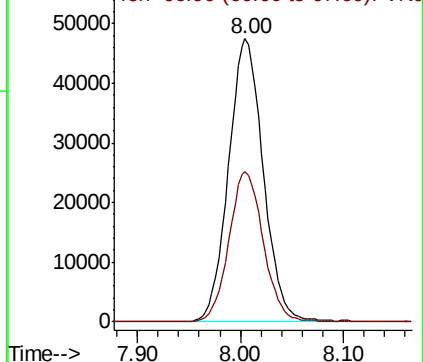
65 100

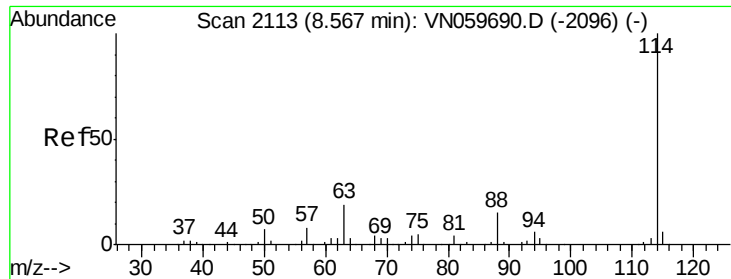
67 52.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

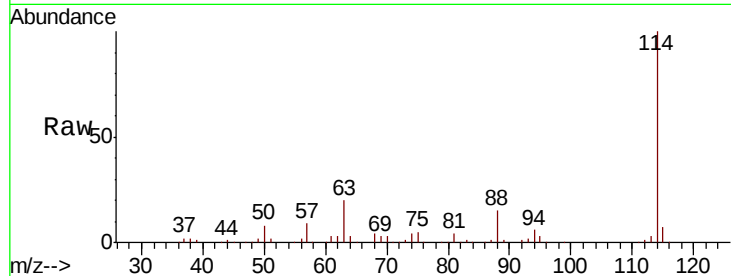




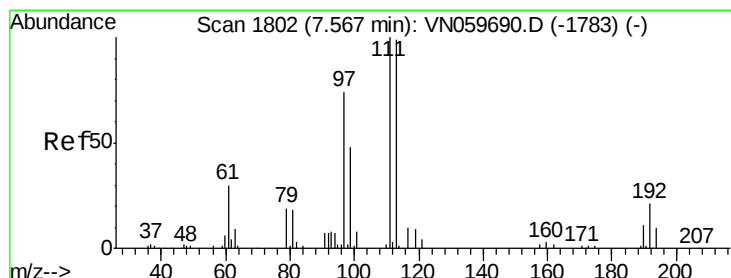
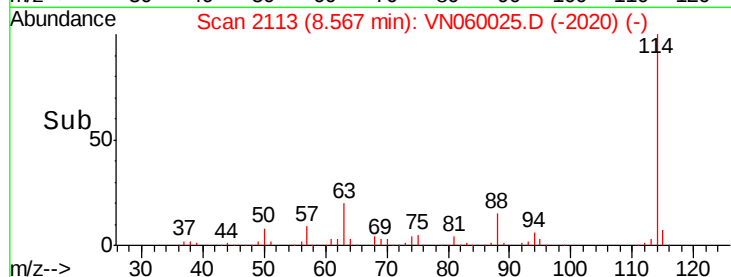
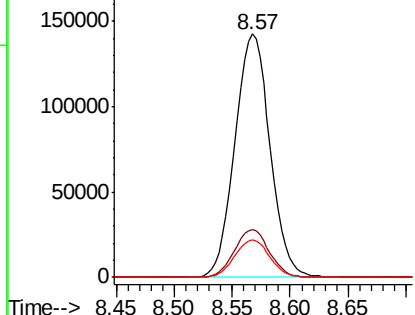
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	43.6
88	15.2	0.0	31.4

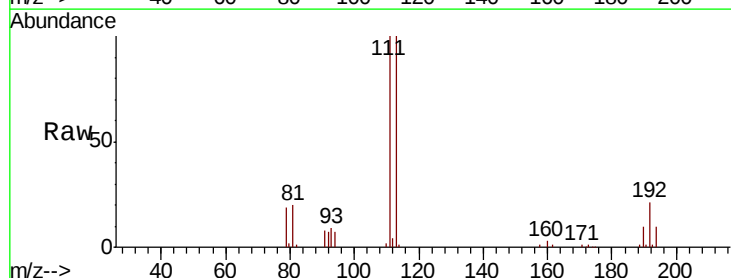


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

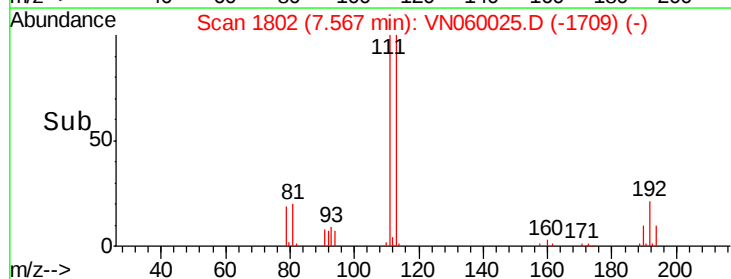
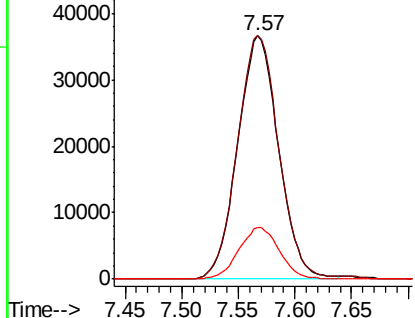


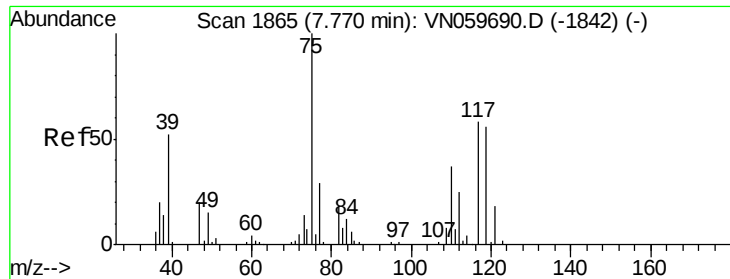
#35
 Dibromofluoromethane
 Concen: 51.559 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.5	125.3
192	21.1	15.4	23.2



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

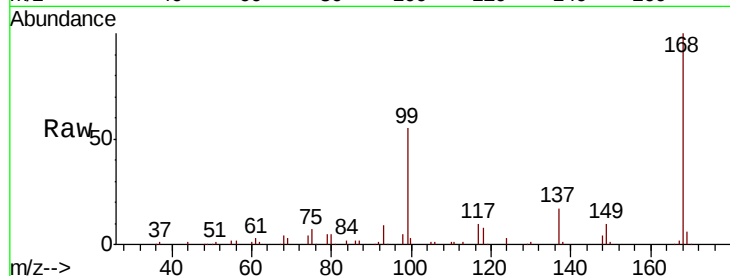




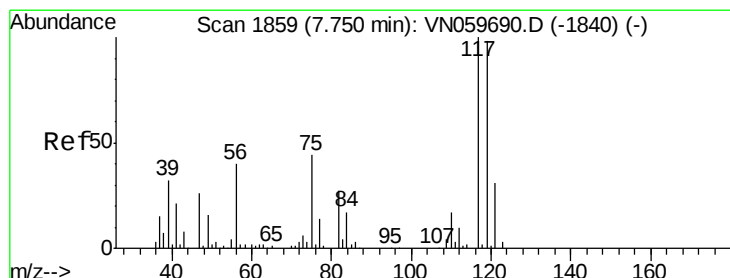
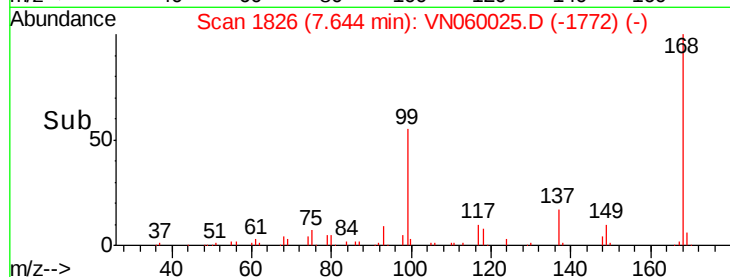
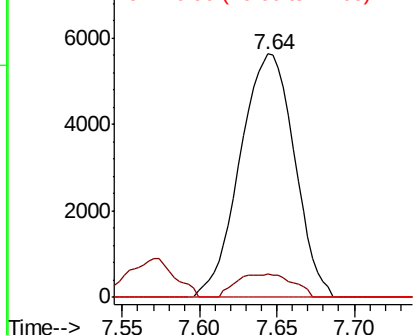
#36
 1,1-Dichloropropene
 Concen: 5.275 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13750
Ion Ratio	Lower	Upper	
75	100		
110	9.9	16.6	49.7#
77	0.0	25.1	37.7#

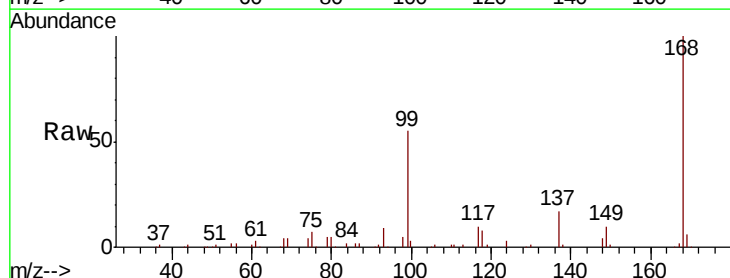


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

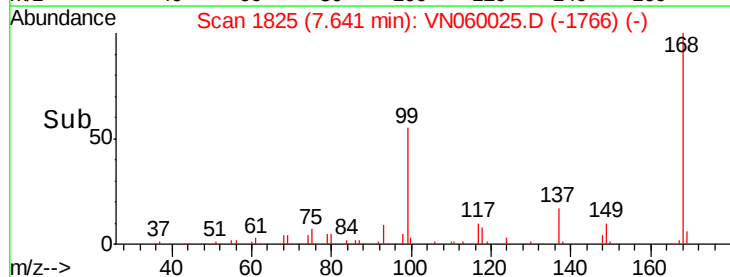
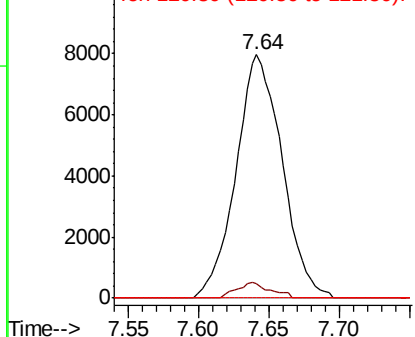


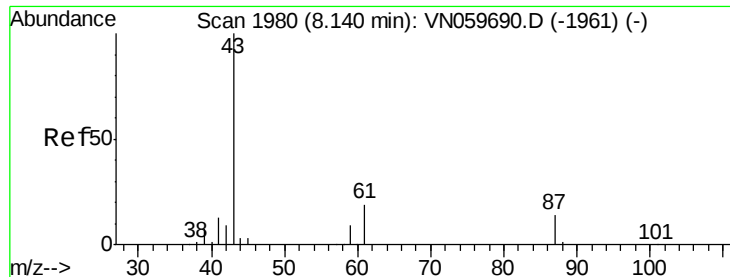
#38
 Carbon Tetrachloride
 Concen: 6.431 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Tgt Ion	117	Resp	18236
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.1	76.5	114.7#
121	0.0	25.1	37.7#



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





#43

Isopropyl Acetate

Concen: 10.339 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Instrument :

MSVOA_N

ClientSampleId :

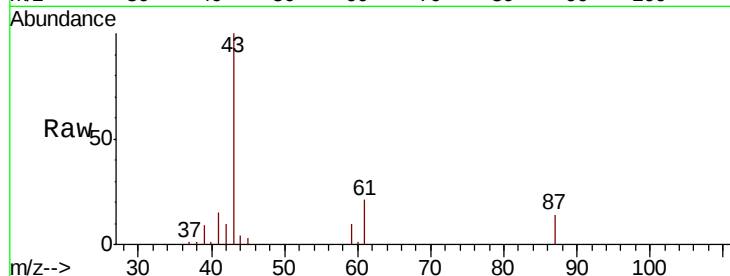
Tot Ion: 43 Resp: 43477

Ion Ratio Lower Upper

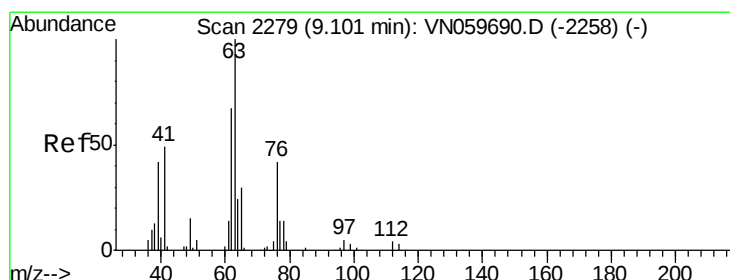
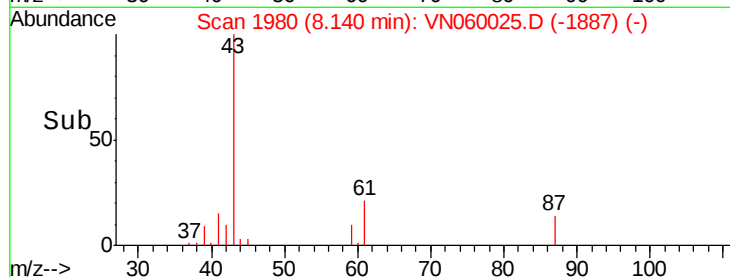
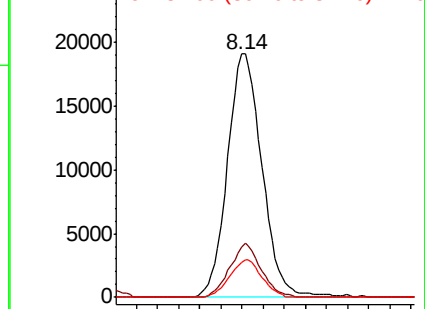
43 100

61 19.9 20.2 30.2#

87 14.2 9.5 14.3



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



#45

1,2-Dichloropropane

Concen: 0.420 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060025.D

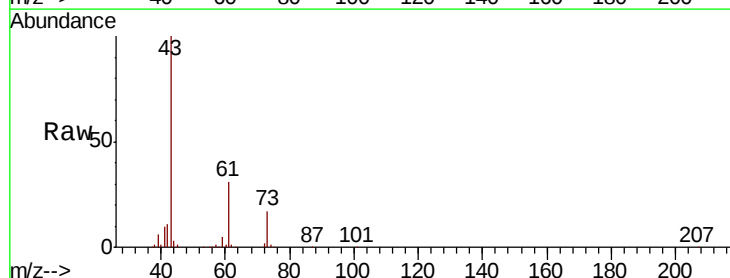
Acq: 7 Feb 2020 12:44

Tgt Ion: 63 Resp: 808

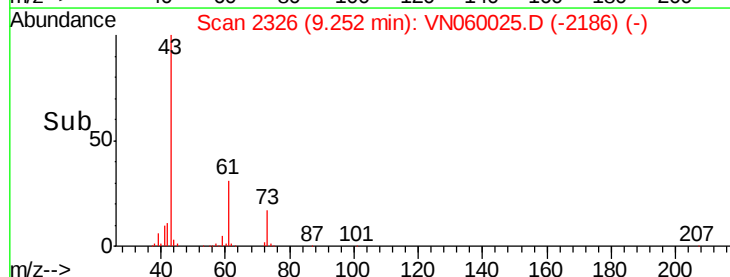
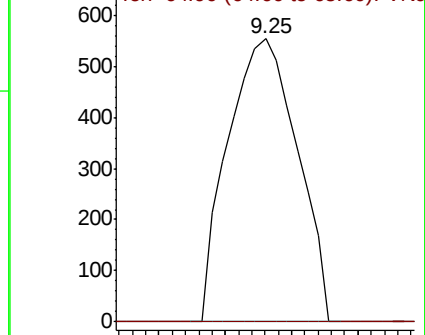
Ion Ratio Lower Upper

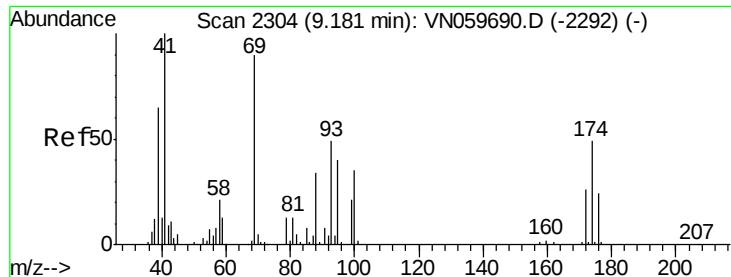
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

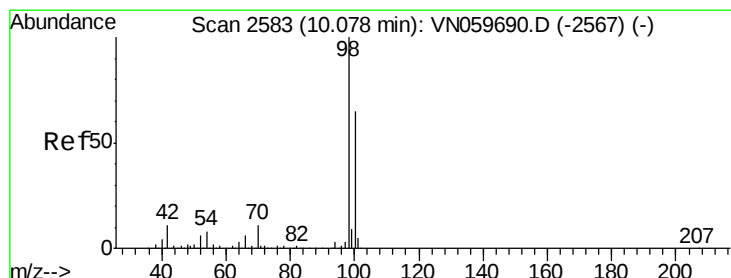
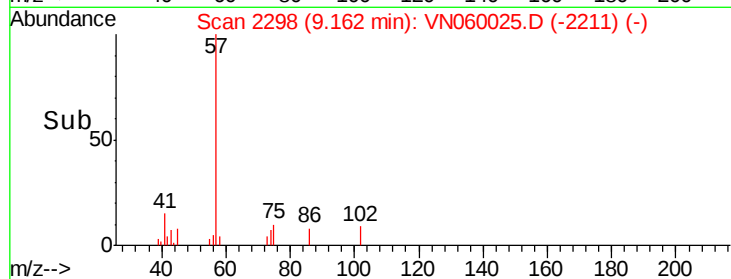
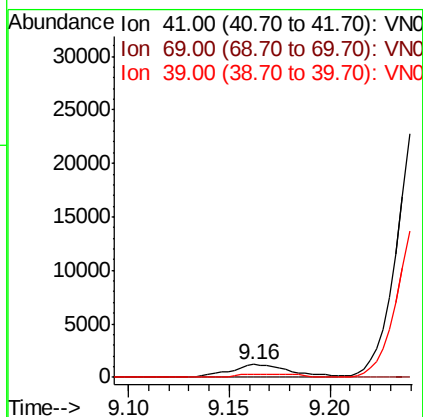
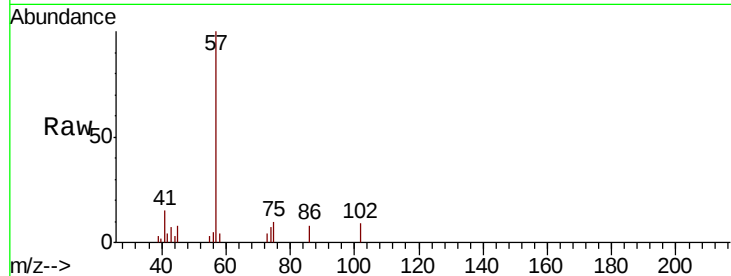




#48
Methvl methacrylate
Concen: 1.333 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060025.D
Acq: 7 Feb 2020 12:44

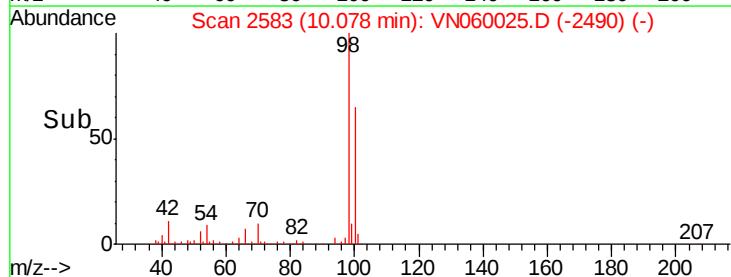
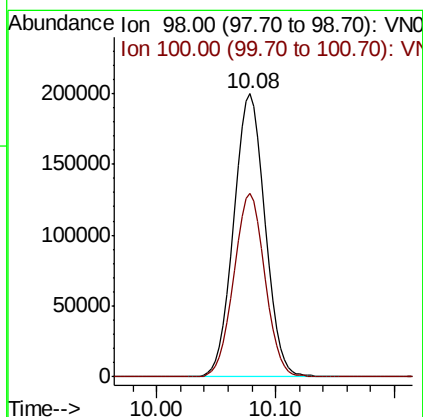
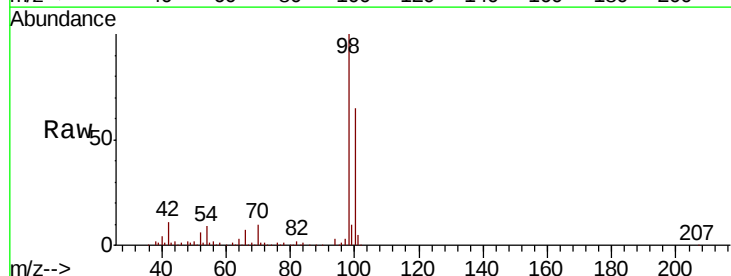
Instrument :
MSVOA_N
ClientSampled :

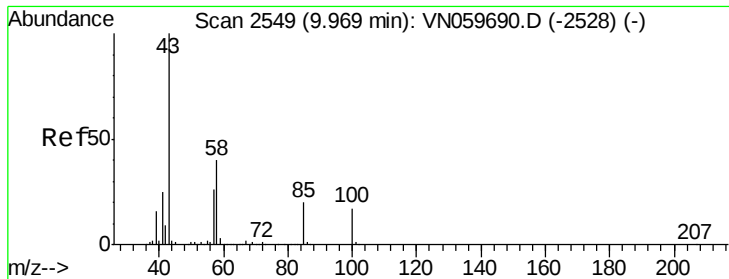
Tot Ion: 41 Resp: 2507
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 52.628 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060025.D
Acq: 7 Feb 2020 12:44

Tgt Ion: 98 Resp: 363991
Ion Ratio Lower Upper
98 100
100 64.6 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.218 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Instrument :

MSVOA_N

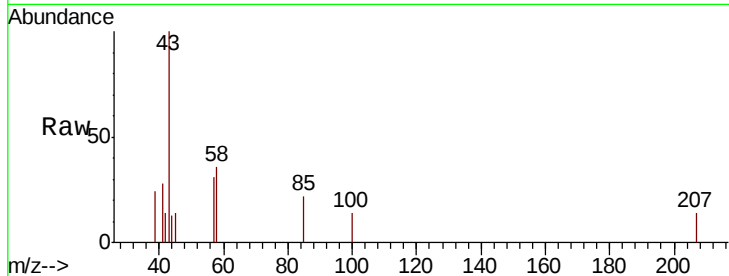
ClientSampled :

Tot Ion: 43 Resp: 2961

Ion Ratio Lower Upper

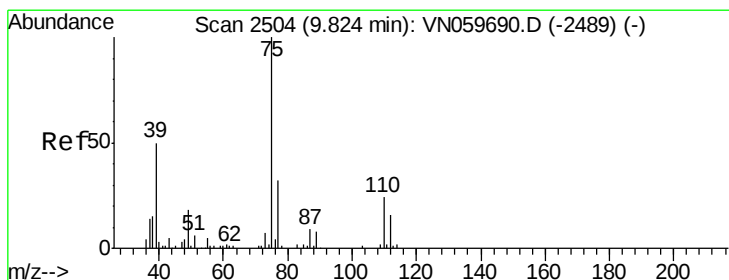
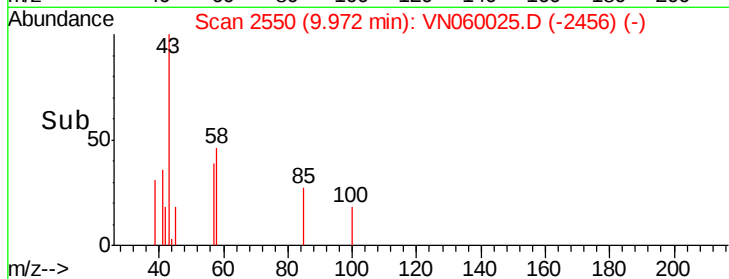
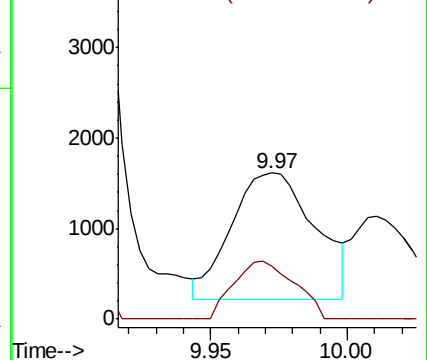
43 100

58 33.7 29.8 44.8



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: 6.127 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

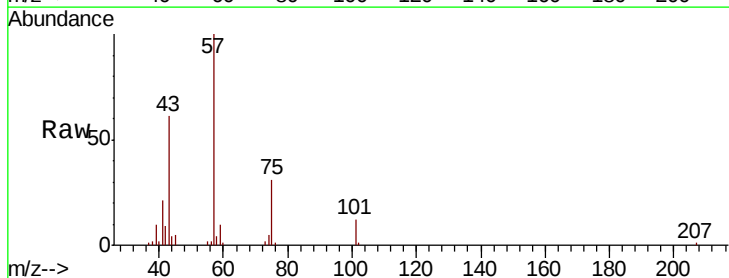
Tgt Ion: 75 Resp: 19684

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

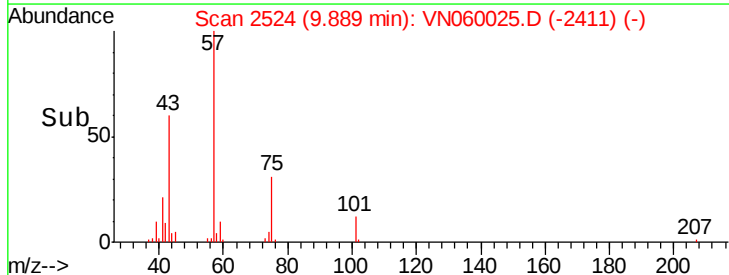
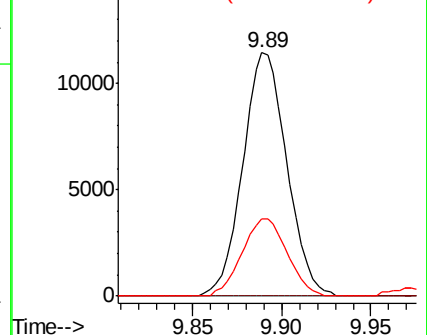
39 31.5 46.1 69.1#

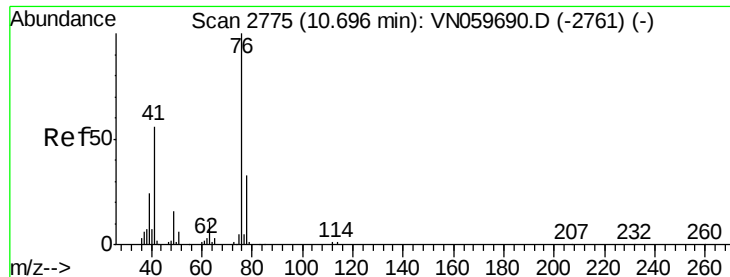


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

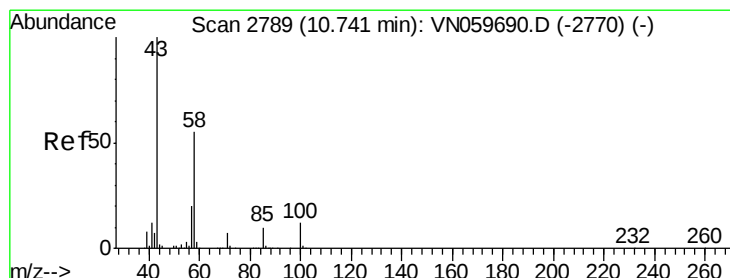
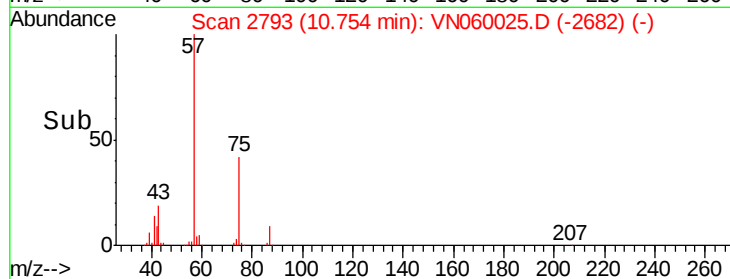
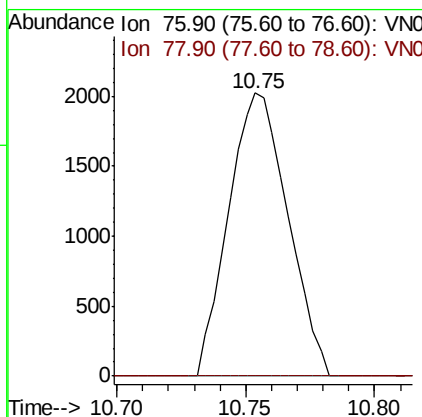
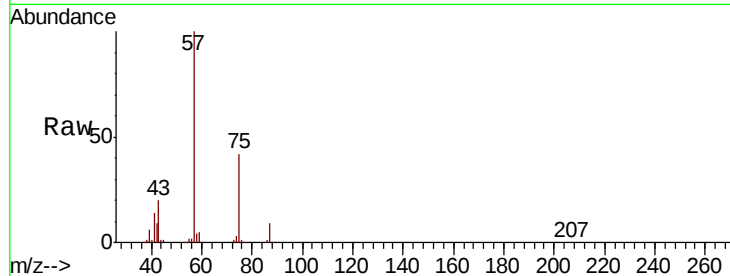




#57
 1,3-Dichloropropane
 Concen: 1.047 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

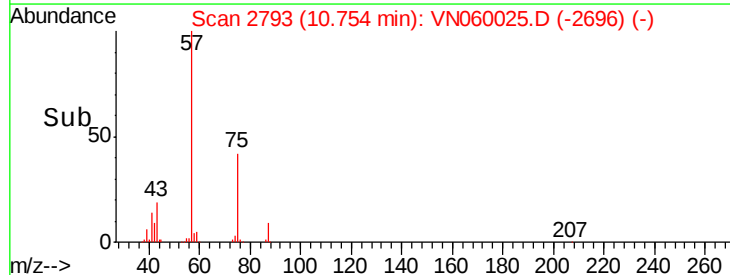
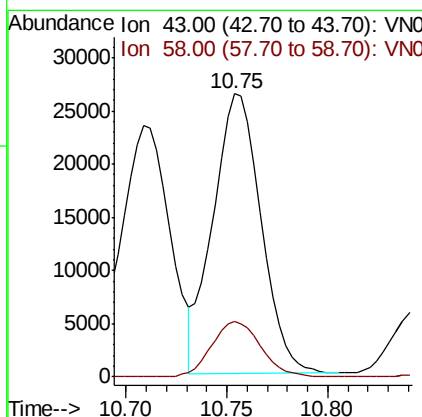
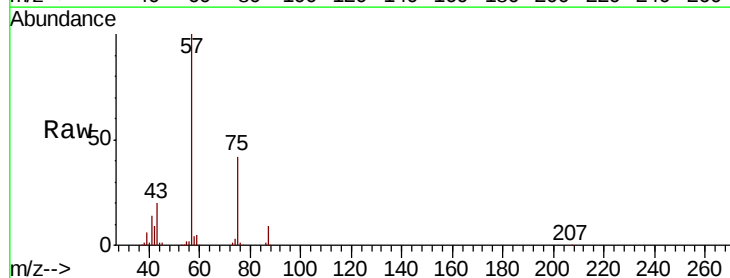
Instrument :
 MSVOA_N
 ClientSampled :

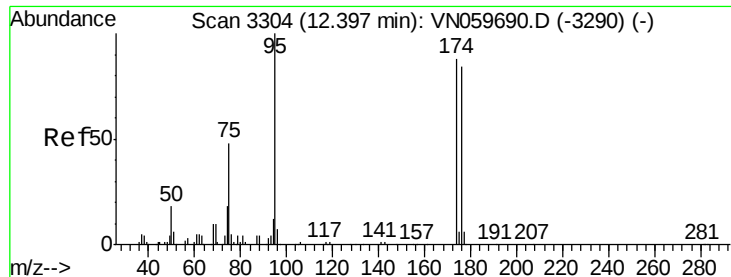
Tot Ion: 76 Resp: 3233
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 24.385 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Tgt Ion: 43 Resp: 43672
 Ion Ratio Lower Upper
 43 100
 58 20.1 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 53.069 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Instrument :

MSVOA_N

ClientSampled :

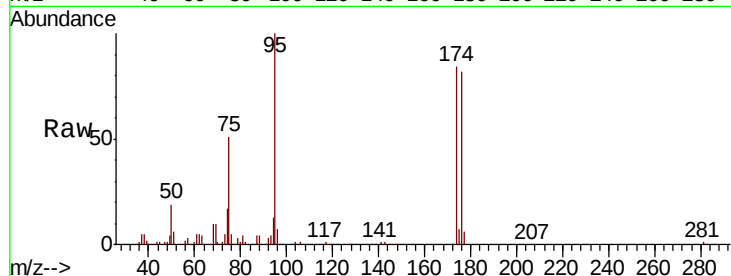
Tot Ion: 95 Resp: 132319

Ion Ratio Lower Upper

95 100

174 85.3 0.0 151.4

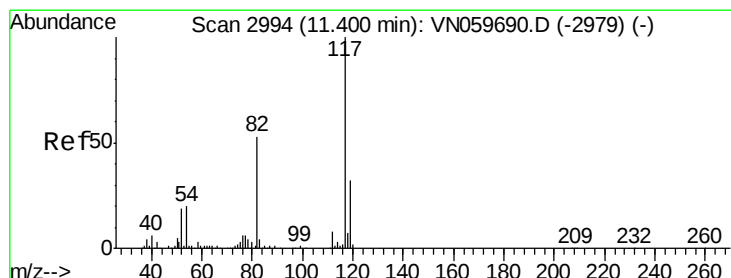
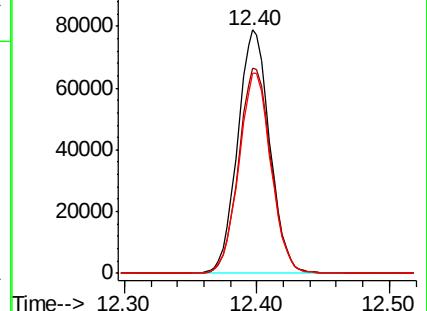
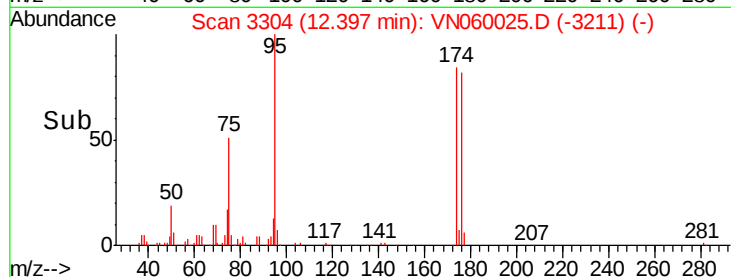
176 82.3 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN060025.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060025.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060025.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

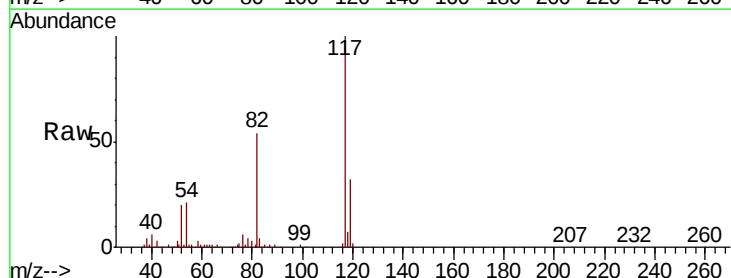
Tgt Ion: 117 Resp: 282446

Ion Ratio Lower Upper

117 100

82 54.1 45.9 68.9

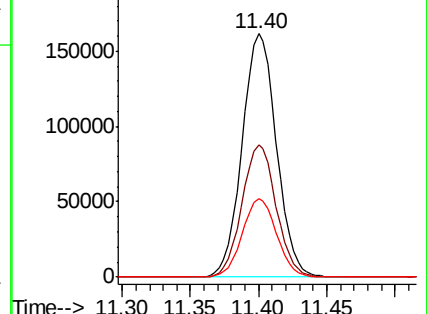
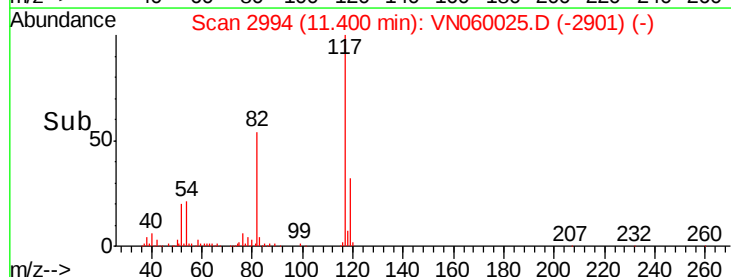
119 32.0 25.5 38.3

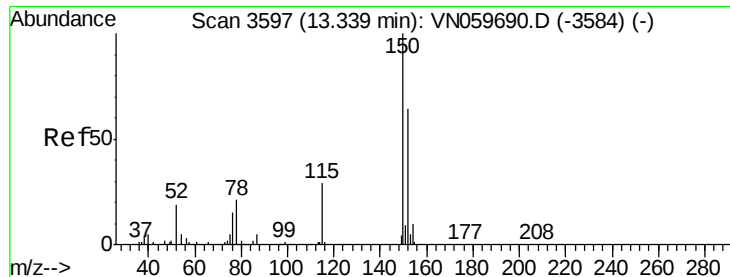


Abundance Ion 116.90 (116.60 to 117.60): VN060025.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060025.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060025.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Instrument :

MSVOA_N

ClientSampleId :

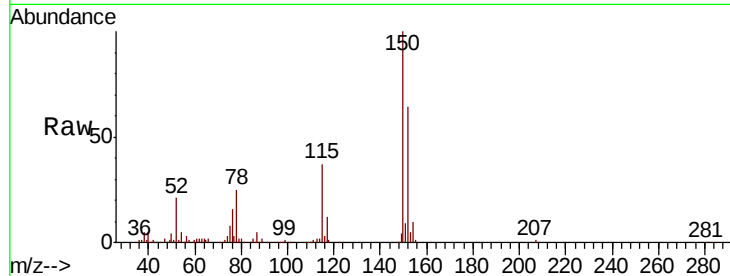
Tot Ion:152 Resp: 130361

Ion Ratio Lower Upper

152 100

115 58.4 30.3 90.9

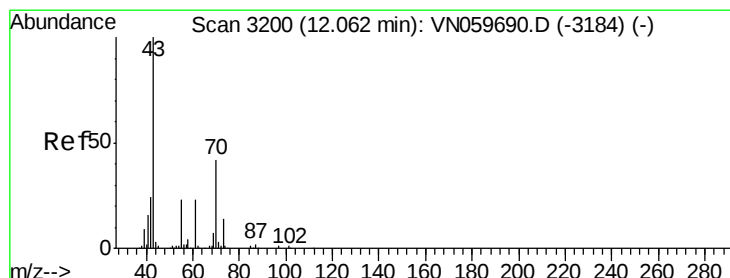
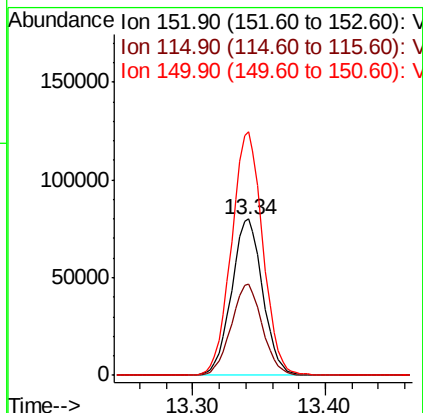
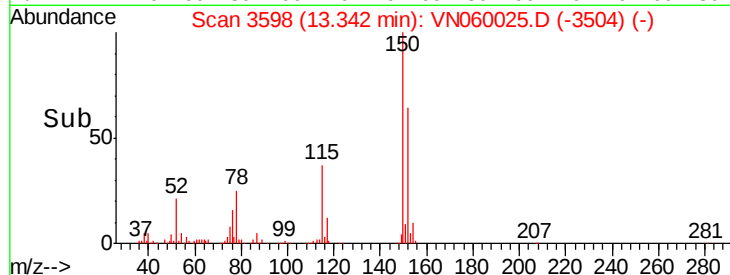
150 156.4 0.0 345.2



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



#74

N-ethyl acetate

Concen: 0.552 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Tgt Ion: 43 Resp: 2048

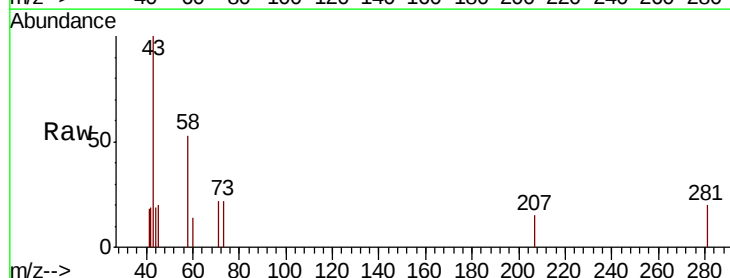
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

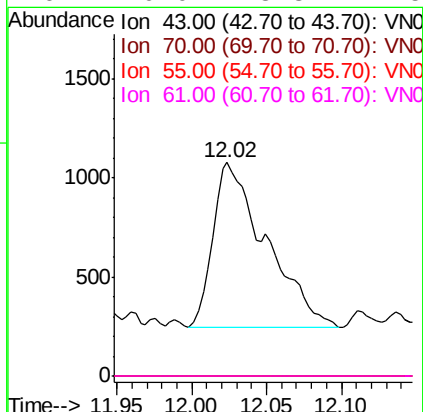
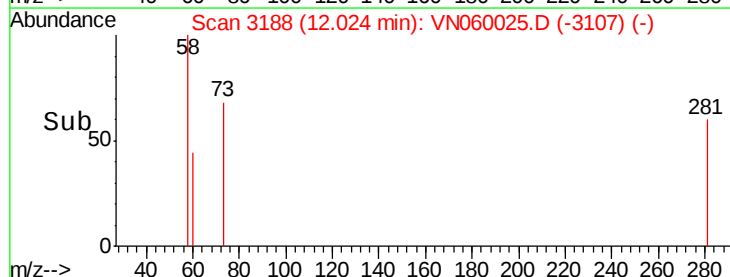


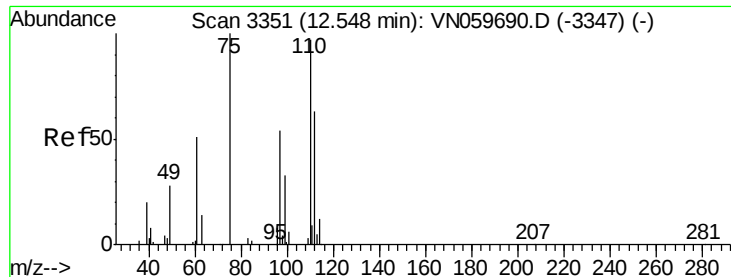
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.961 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

Instrument :

MSVOA_N

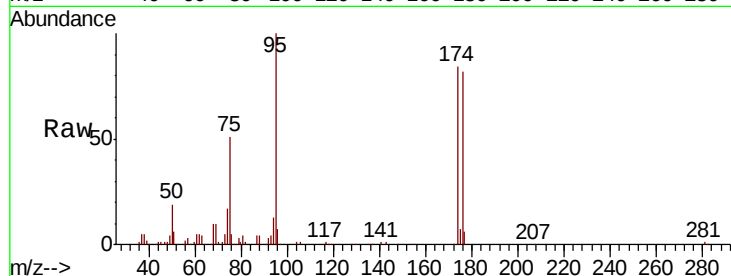
ClientSampleId :

Tot Ion: 75 Resp: 67924

Ion Ratio Lower Upper

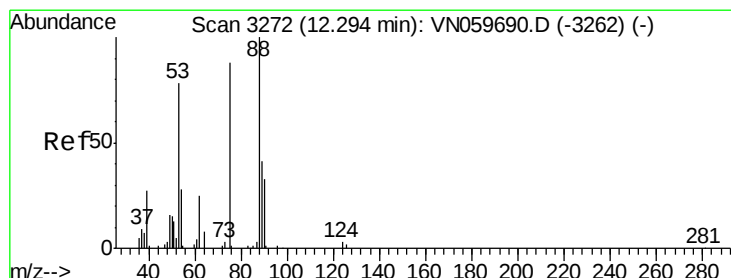
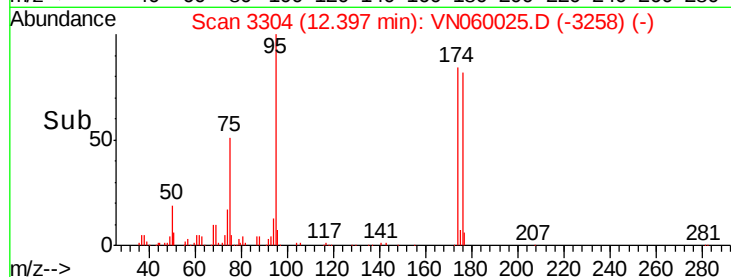
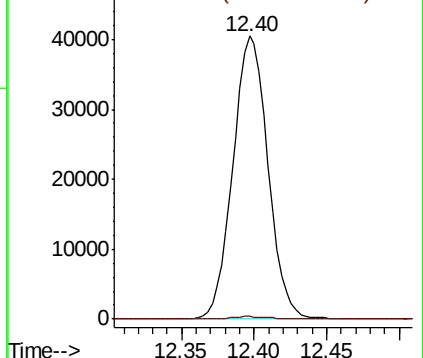
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.489 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060025.D

Acq: 7 Feb 2020 12:44

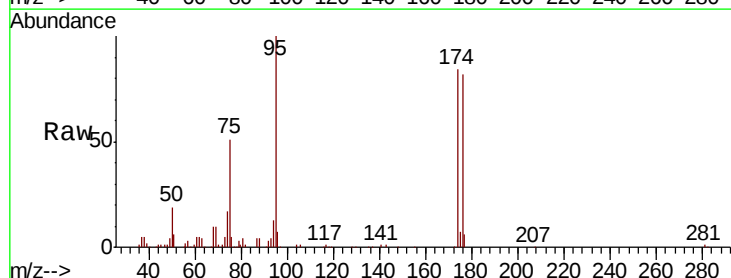
Tgt Ion: 75 Resp: 67924

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

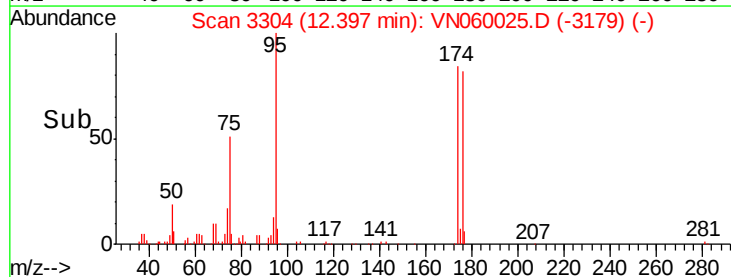
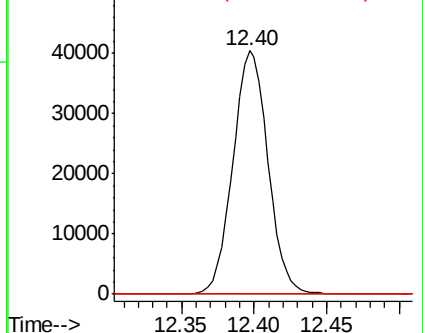
89 0.0 35.4 53.2#

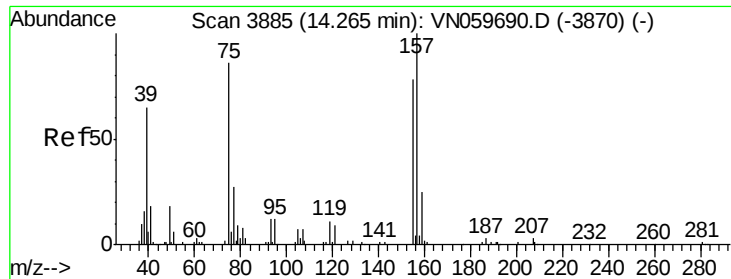


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

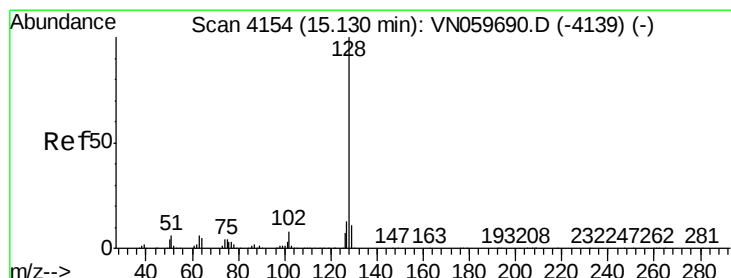
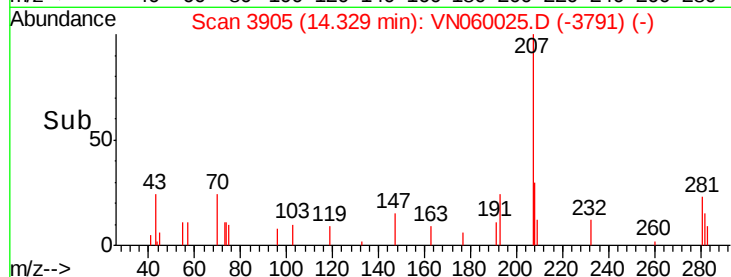
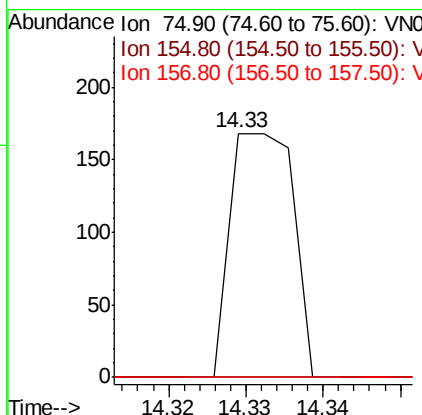
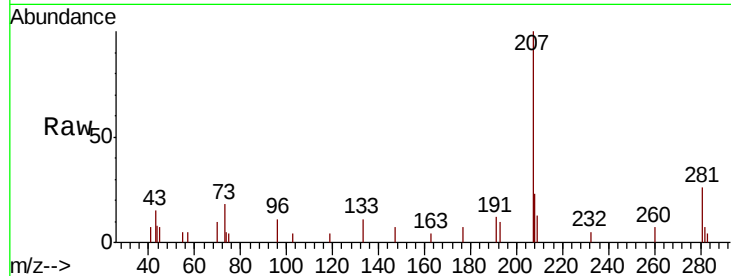




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.33 min Scan# 3905
 Delta R.T. 0.07 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 95
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#95
 Naphthalene
 Concen: 0.494 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN060025.D
 Acq: 7 Feb 2020 12:44

Tgt Ion: 128 Resp: 3512
 Ion Ratio Lower Upper
 128 100
 127 7.9 10.4 15.6#
 129 6.5 8.6 12.8#

