

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060509.D
 Acq On : 13 Mar 2020 17:42
 Operator : JC/MD
 Sample : L1902-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:31:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	205037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	341291	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	321883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	151572	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	133588	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
35) Dibromofluoromethane	7.57	113	101646	64.16	ug/l	0.00
Spiked Amount			Recovery	=	128.32%	
50) Toluene-d8	10.08	98	425851	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
62) 4-Bromofluorobenzene	12.40	95	160695	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7496	8.824	ug/l #	82
18) Methyl Acetate	4.30	43	1228	0.433	ug/l #	52
20) Methylene Chloride	4.53	84	5475	2.347	ug/l	99
25) 2-Butanone	6.82	43	1038	0.756	ug/l #	49
31) Cyclohexane	7.64	56	4390	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15951	4.904	ug/l #	50
37) Ethyl Acetate	6.82	43	1038	0.337	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19664	6.209	ug/l #	16
43) Isopropyl Acetate	8.14	43	62076	11.513	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	995	0.402	ug/l #	44
48) Methyl methacrylate	9.16	41	3182	1.294	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5527	1.808	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	26284	6.337	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3909	1.002	ug/l #	42
59) 2-Hexanone	10.75	43	60566	26.983	ug/l #	52
71) Bromoform	12.40	173	420	0.242	ug/l #	1
74) N-amyl acetate	12.02	43	2731	0.556	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	80336	24.158	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80336	66.686	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

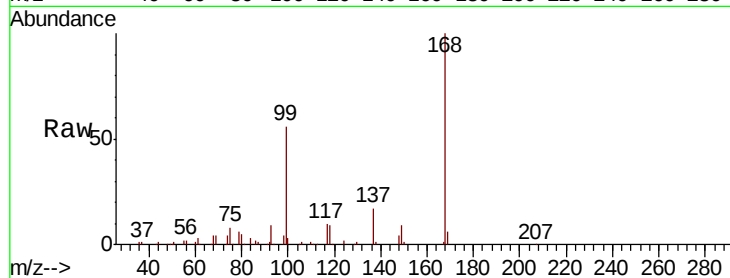
ClientSampleId :

Tot Ion:168 Resp: 205037

Ion Ratio Lower Upper

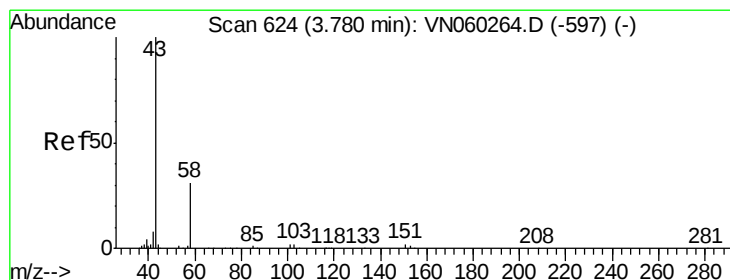
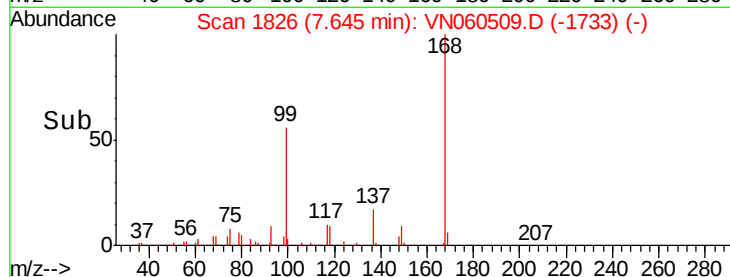
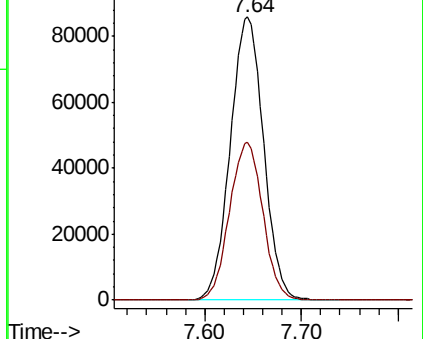
168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 8.824 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060509.D

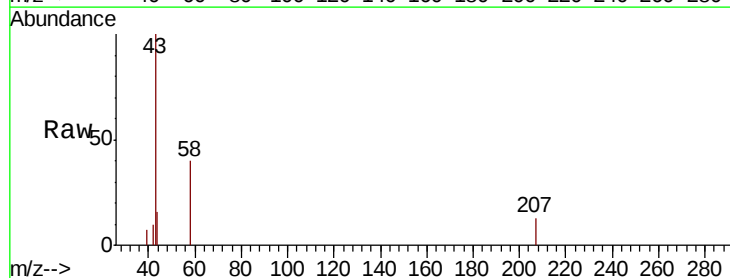
Acq: 13 Mar 2020 17:42

Tgt Ion: 43 Resp: 7496

Ion Ratio Lower Upper

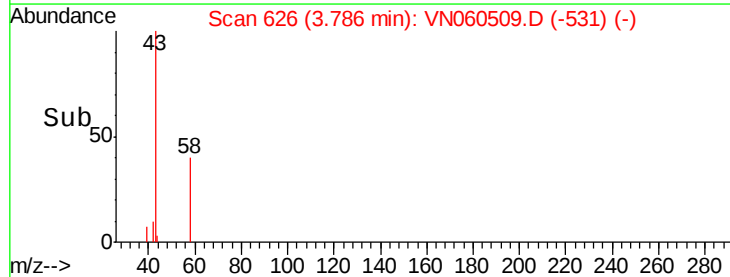
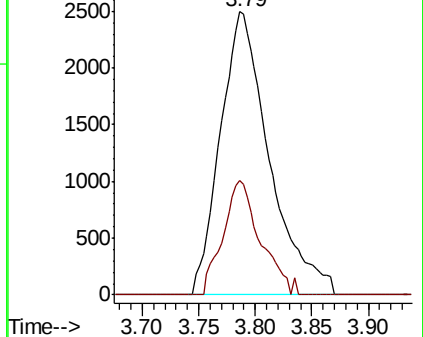
43 100

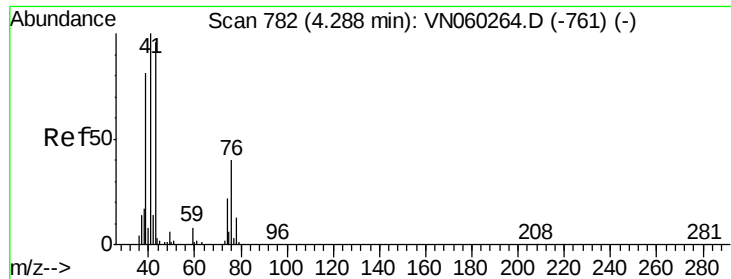
58 40.4 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

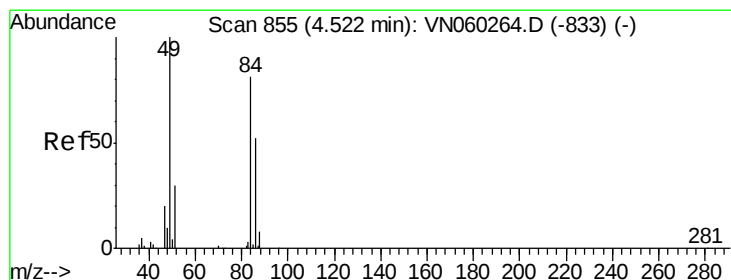
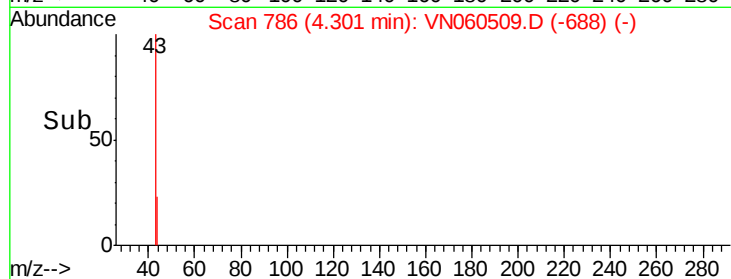
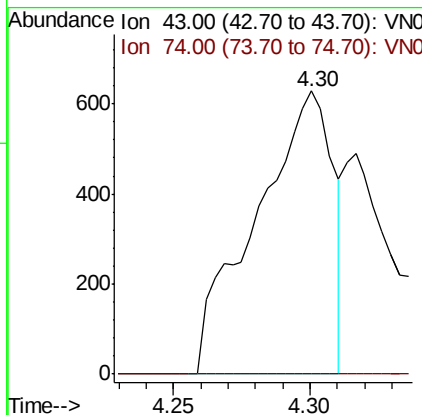
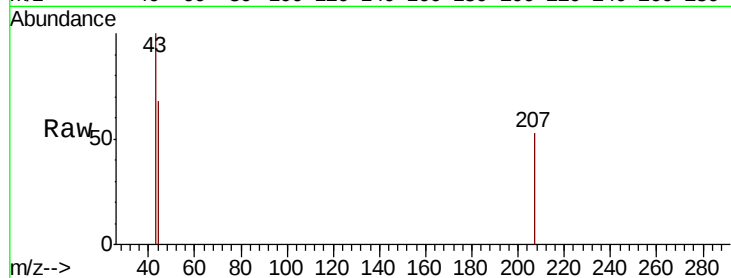




#18
Methyl Acetate
Concen: 0.433 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

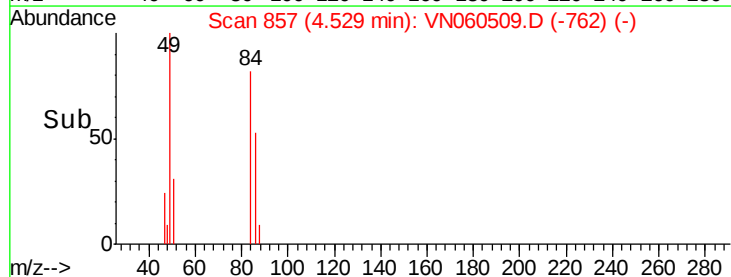
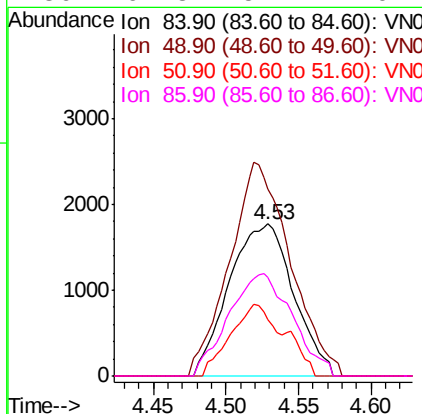
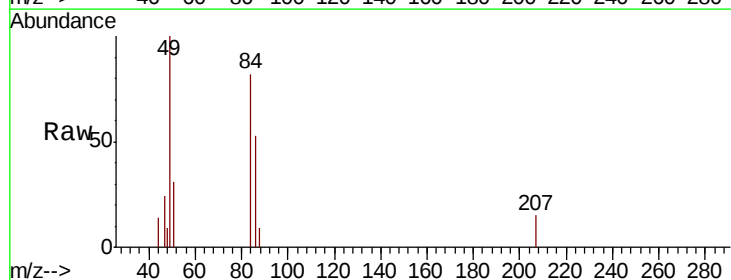
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1228
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.347 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

Tgt Ion: 84 Resp: 5475
Ion Ratio Lower Upper
84 100
49 122.4 99.3 148.9
51 37.3 30.1 45.1
86 64.8 51.1 76.7

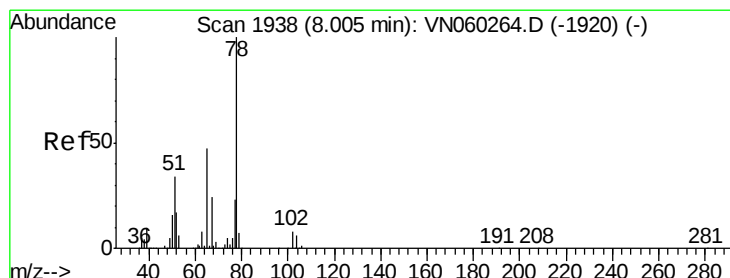
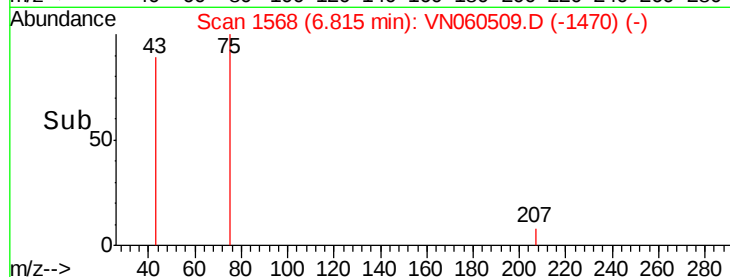
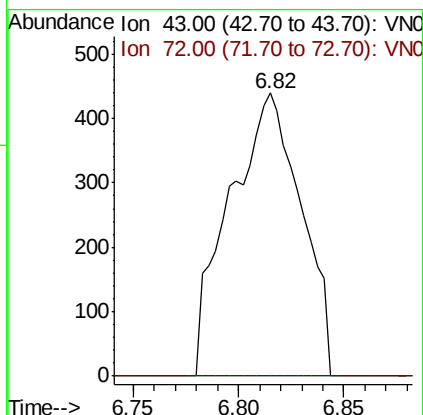
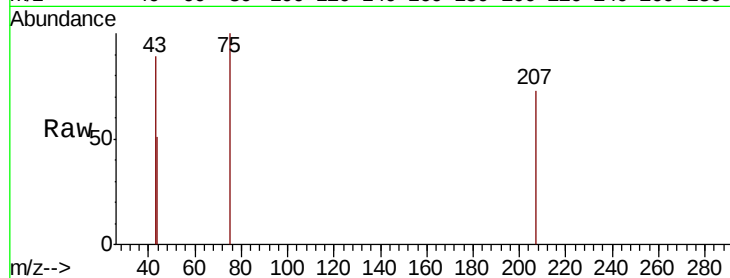




#25
2-Butanone
Concen: 0.756 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

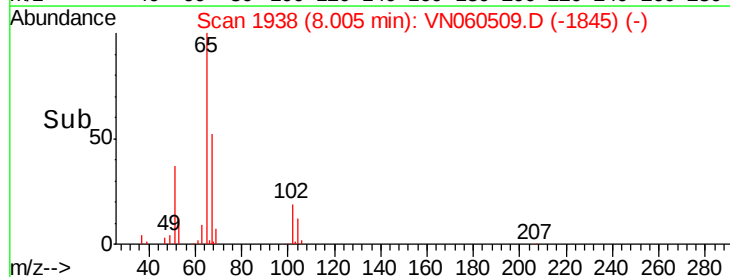
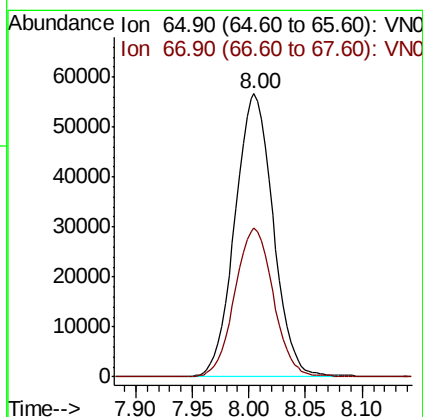
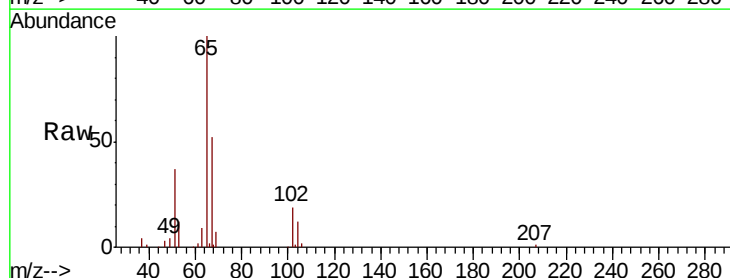
Instrument :
MSVOA_N
ClientSampled :

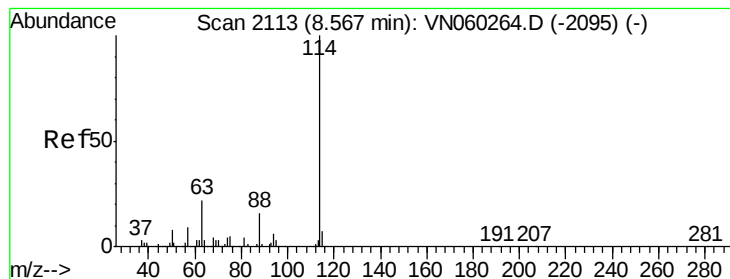
Tot Ion: 43 Resp: 1038
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 50.781 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

Tgt Ion: 65 Resp: 133588
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

ClientSampleId :

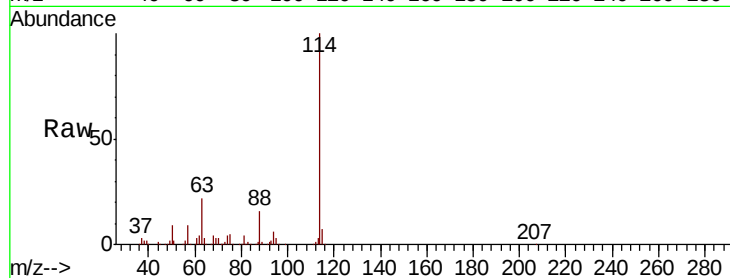
Tot Ion:114 Resp: 341291

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

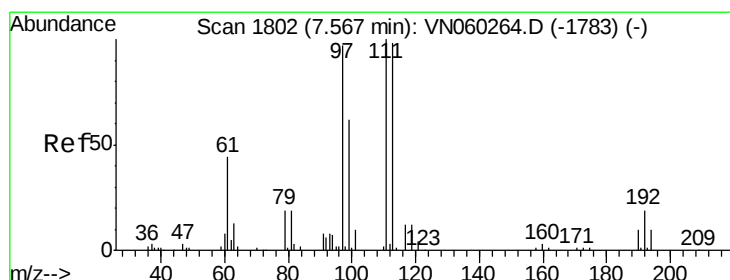
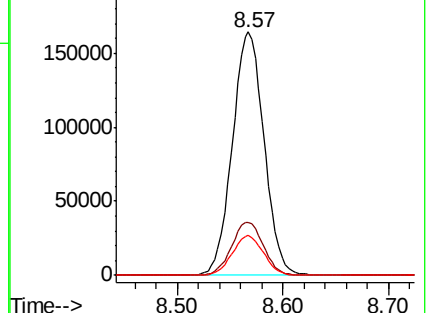
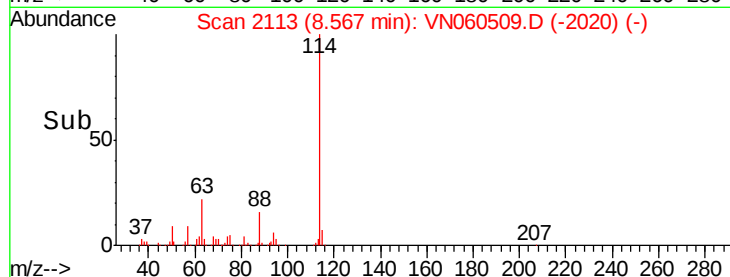
88 16.3 0.0 31.6



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: 64.164 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

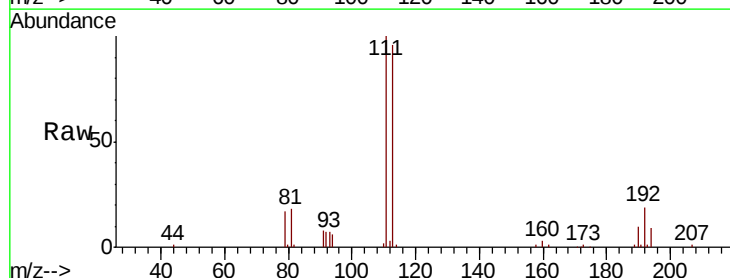
Tgt Ion:113 Resp: 101646

Ion Ratio Lower Upper

113 100

111 102.2 82.4 123.6

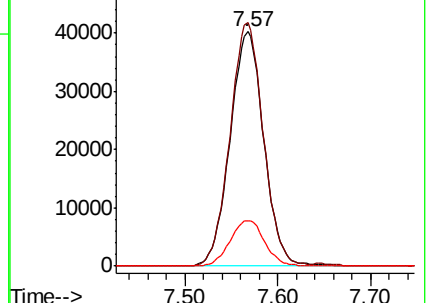
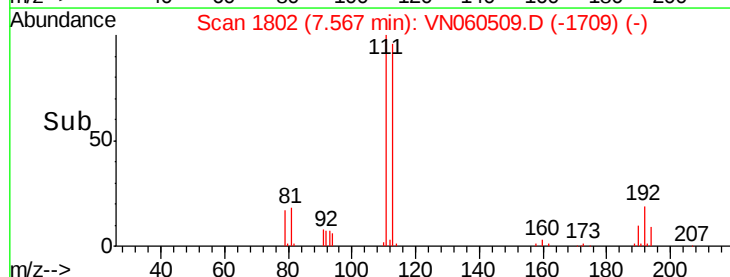
192 19.7 16.2 24.2



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: 4.904 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :
MSVOA_N
ClientSampled :

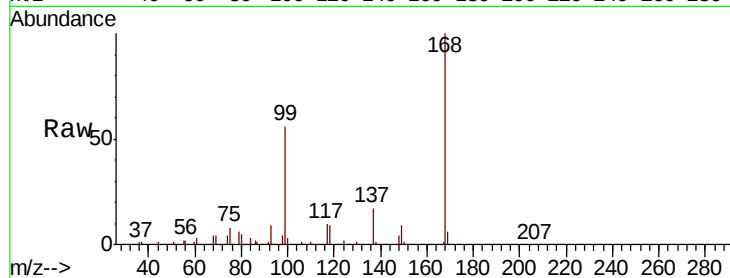
Tot Ion: 75 Resp: 15951

Ion Ratio Lower Upper

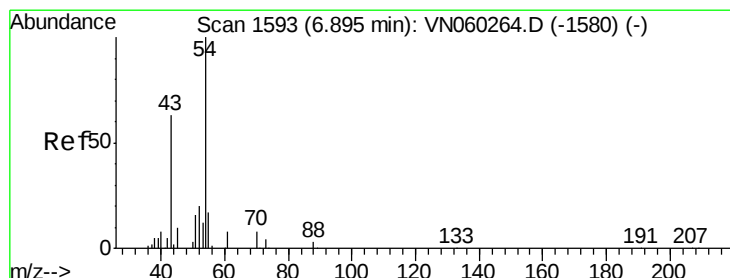
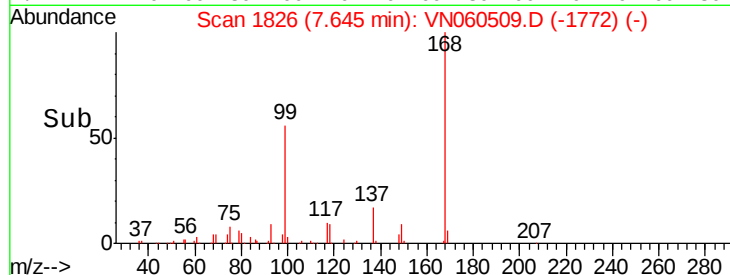
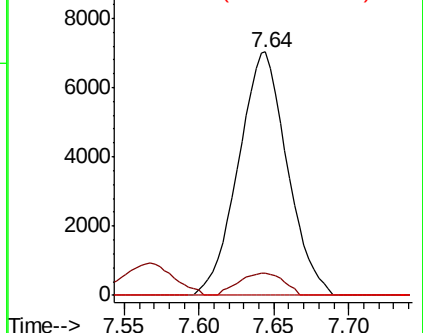
75 100

110 8.4 17.3 52.0#

77 0.0 24.2 36.2#



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



#37

Ethyl Acetate

Concen: 0.337 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

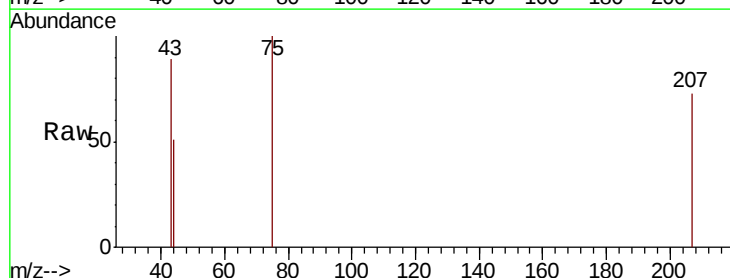
Tgt Ion: 43 Resp: 1038

Ion Ratio Lower Upper

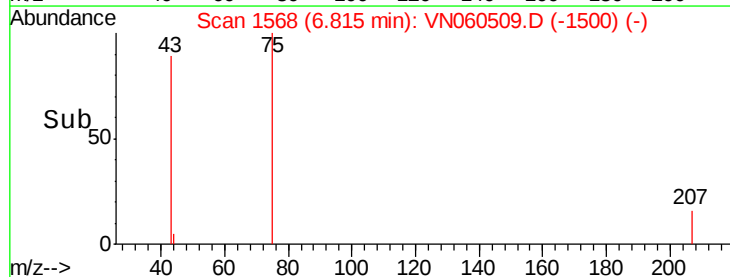
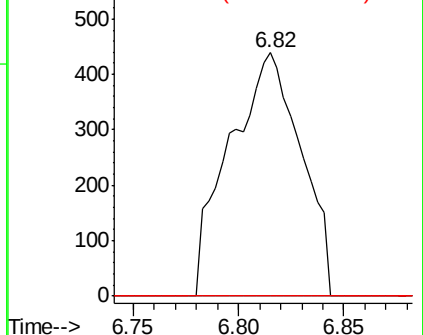
43 100

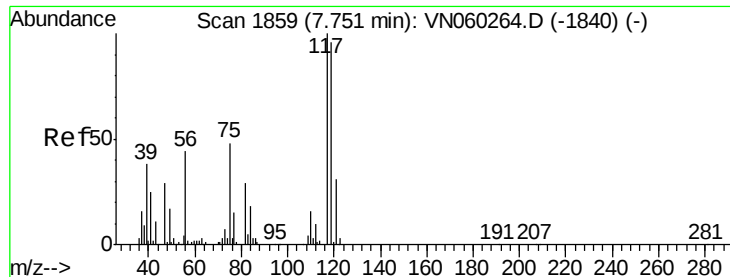
61 0.0 11.1 16.7#

70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.209 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

ClientSampled :

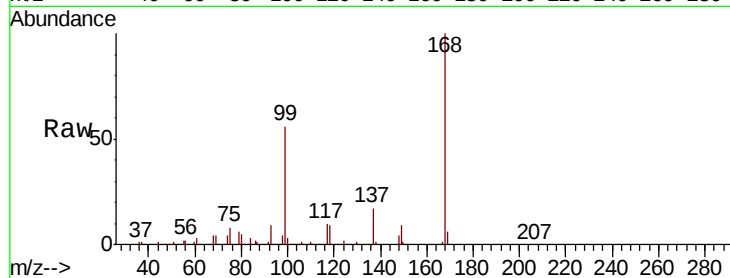
Tot Ion:117 Resp: 19664

Ion Ratio Lower Upper

117 100

119 4.8 76.7 115.1#

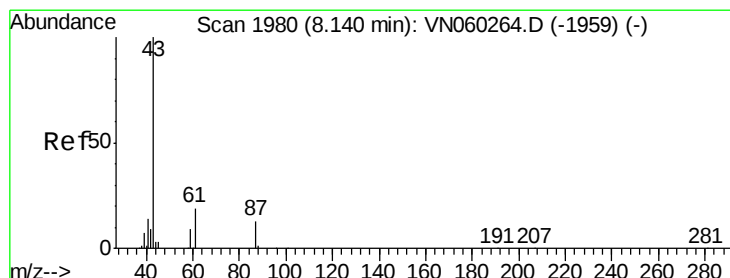
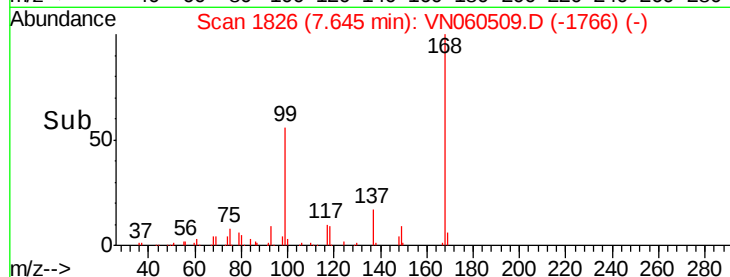
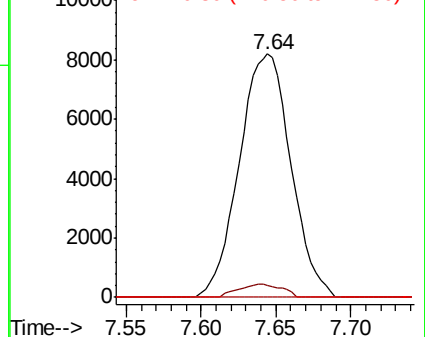
121 0.0 24.5 36.7#



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: 11.513 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

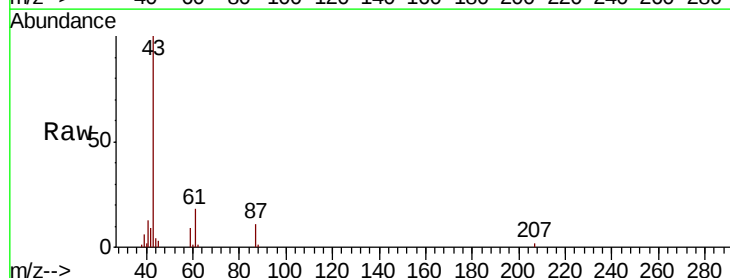
Tgt Ion: 43 Resp: 62076

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

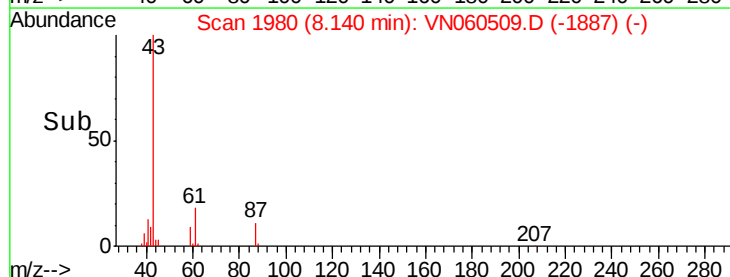
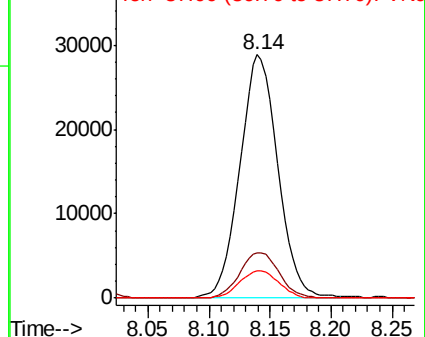
87 11.6 10.6 16.0

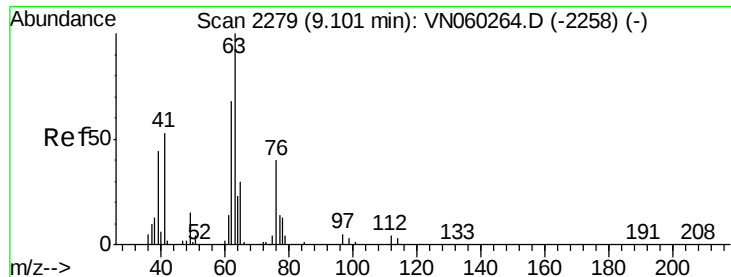


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.402 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

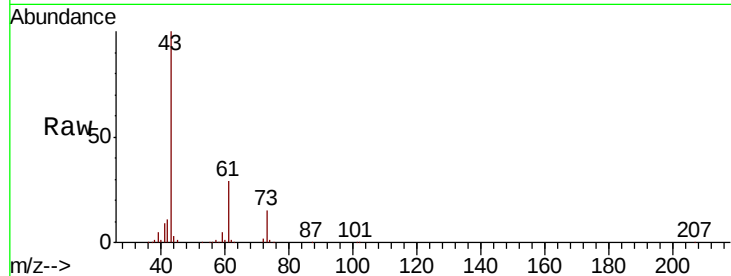
ClientSampleId :

Tot Ion: 63 Resp: 995

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.25

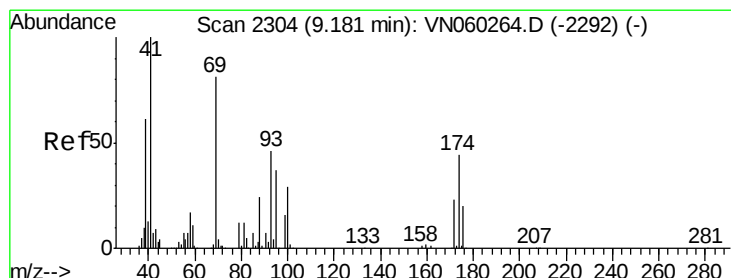
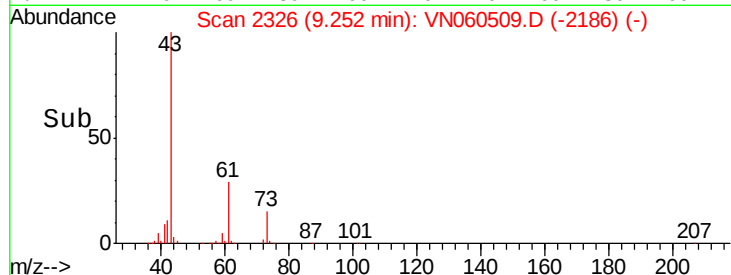
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.294 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

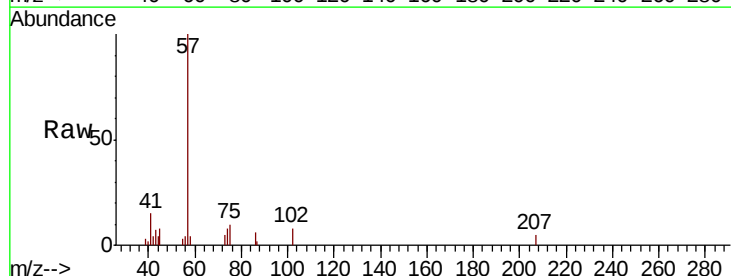
Tgt Ion: 41 Resp: 3182

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

30000

25000

20000

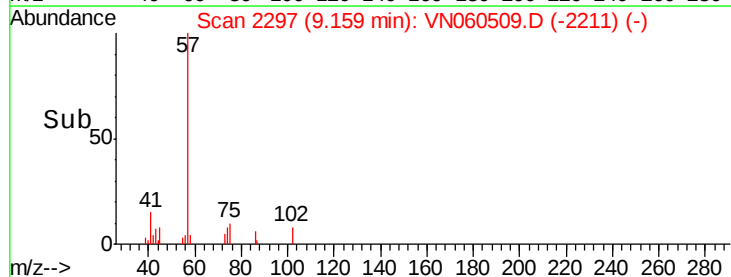
15000

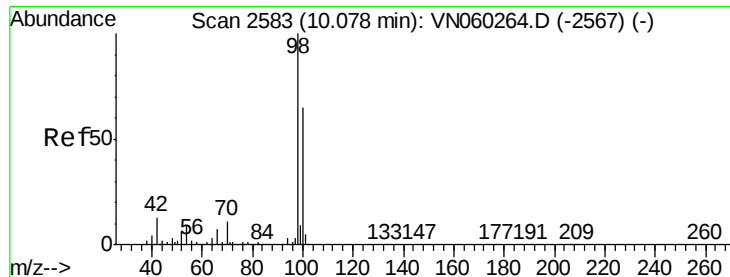
10000

5000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 53.114 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

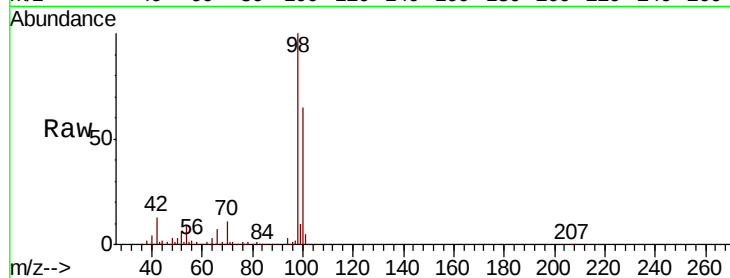
ClientSampled :

Tot Ion: 98 Resp: 425851

Ion Ratio Lower Upper

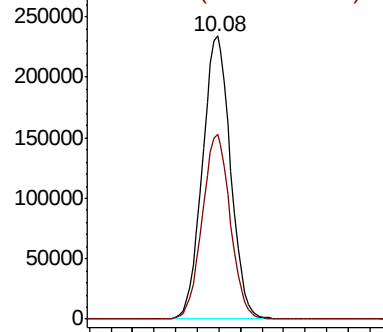
98 100

100 65.0 52.2 78.2

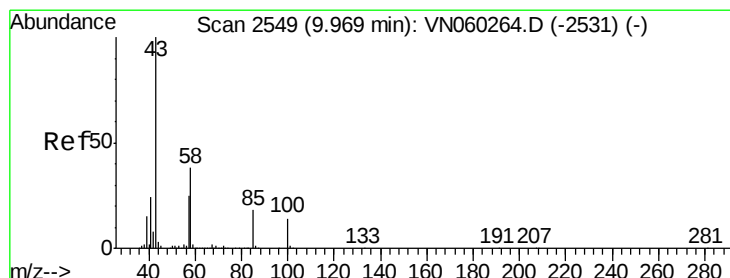
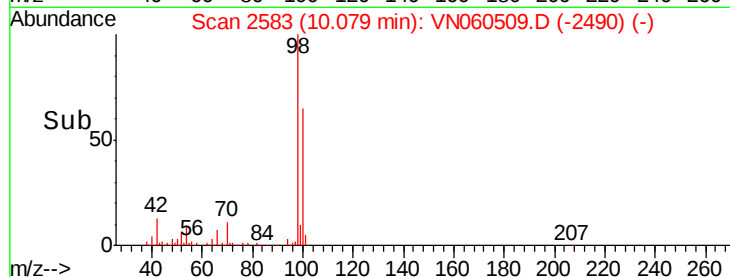


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.808 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060509.D

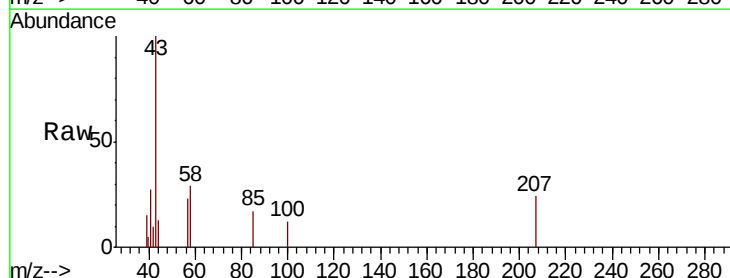
Acq: 13 Mar 2020 17:42

Tgt Ion: 43 Resp: 5527

Ion Ratio Lower Upper

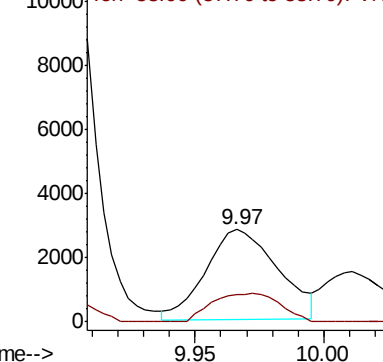
43 100

58 29.9 30.9 46.3#

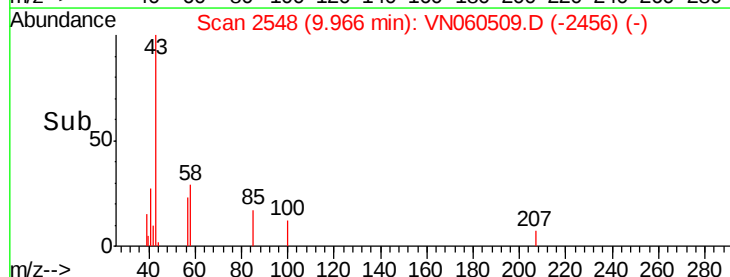


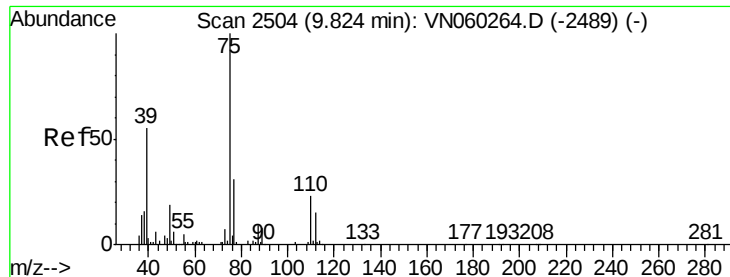
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.337 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

ClientSampleId :

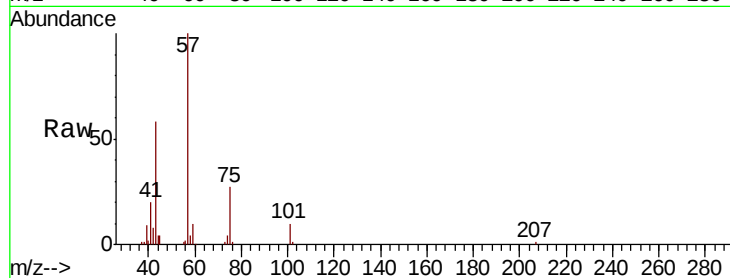
Tot Ion: 75 Resp: 26284

Ion Ratio Lower Upper

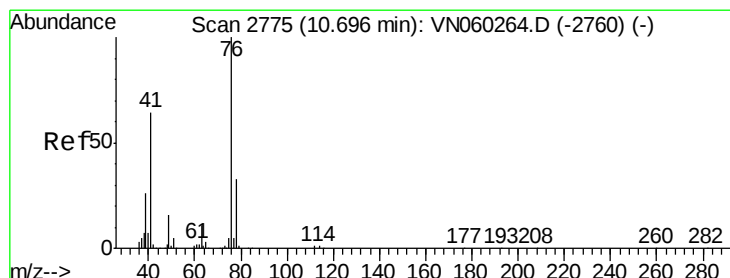
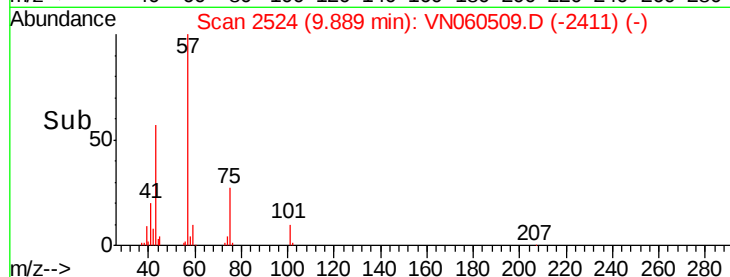
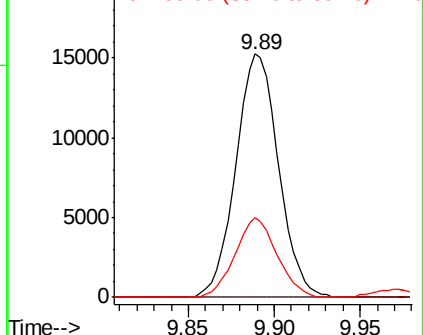
75 100

77 0.0 24.8 37.2#

39 32.9 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.002 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060509.D

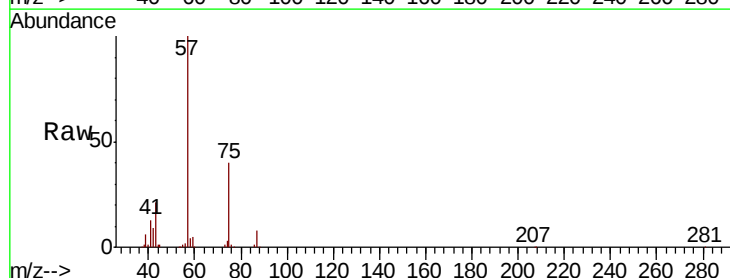
Acq: 13 Mar 2020 17:42

Tgt Ion: 76 Resp: 3909

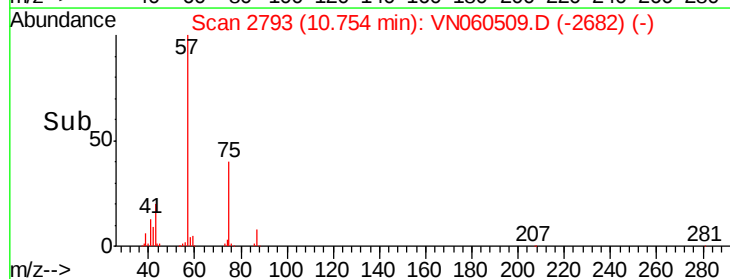
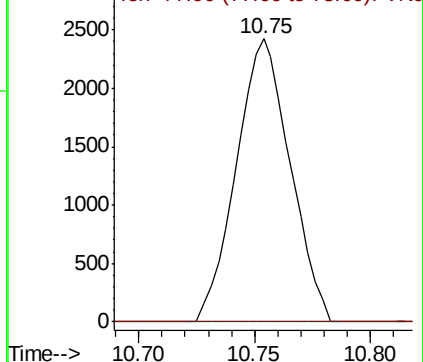
Ion Ratio Lower Upper

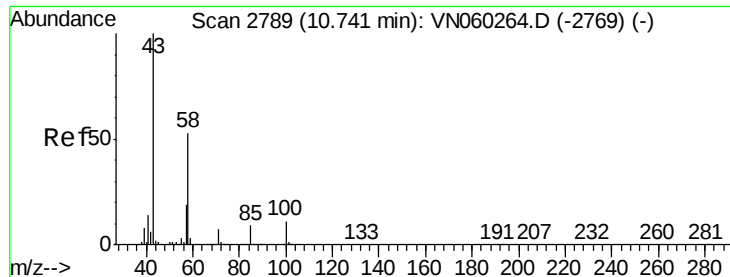
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

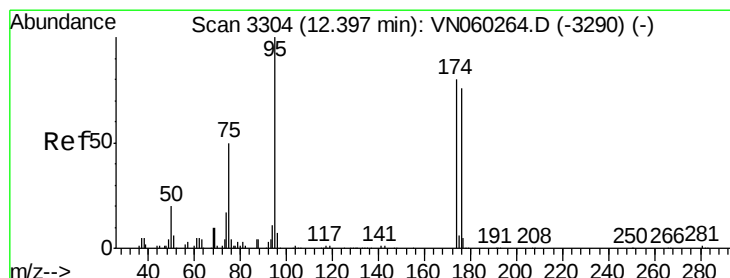
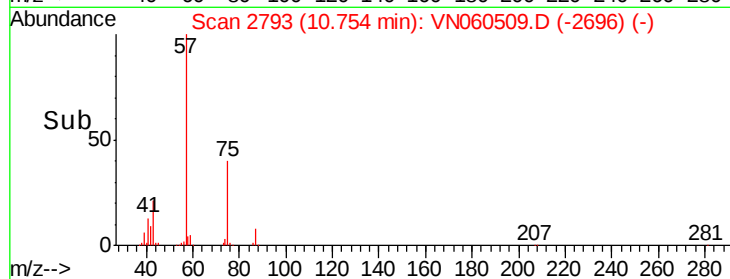
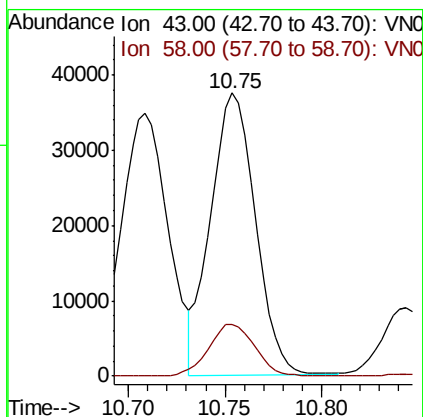
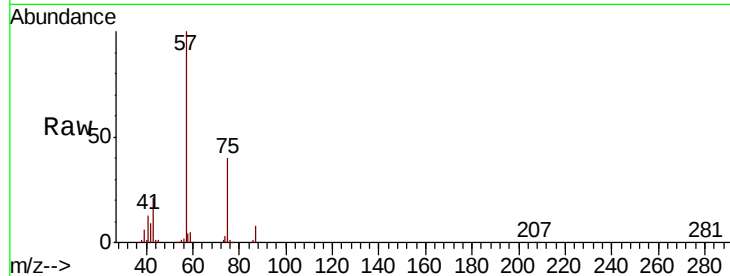




#59
2-Hexanone
Concen: 26.983 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

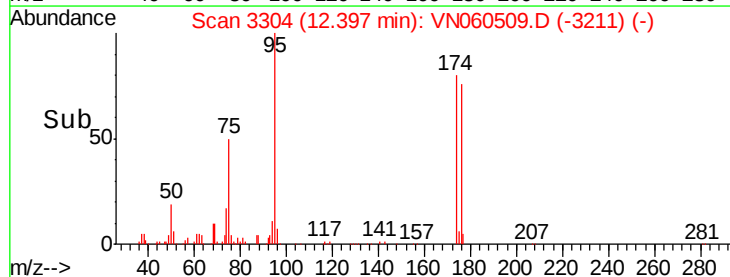
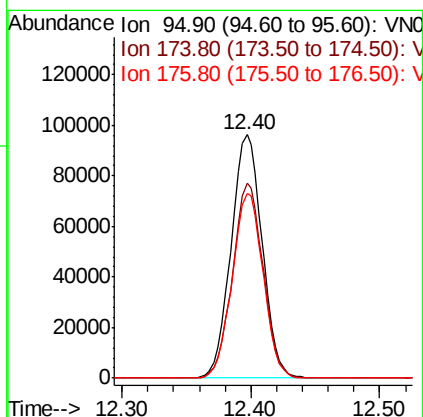
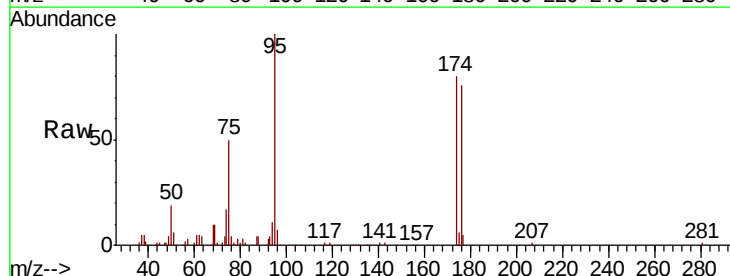
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 60566
Ion Ratio Lower Upper
43 100
58 18.8 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.872 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

Tgt Ion: 95 Resp: 160695
Ion Ratio Lower Upper
95 100
174 78.7 0.0 159.2
176 75.7 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

ClientSampled :

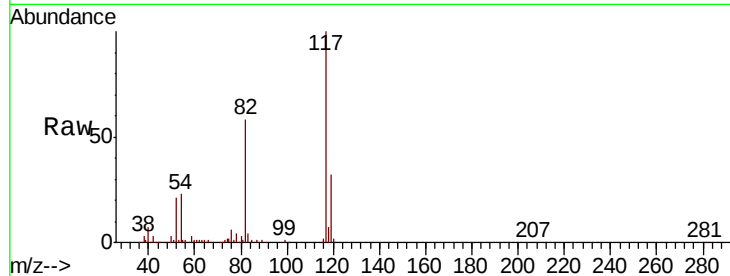
Tot Ion:117 Resp: 321883

Ion Ratio Lower Upper

117 100

82 57.8 45.8 68.6

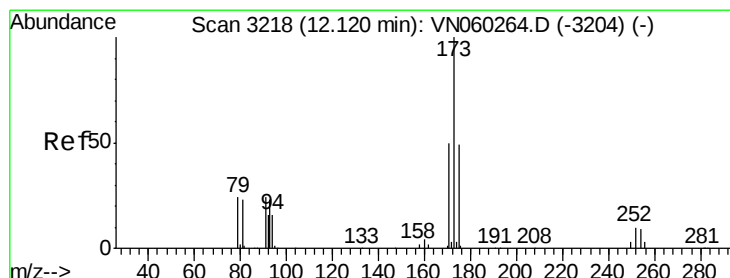
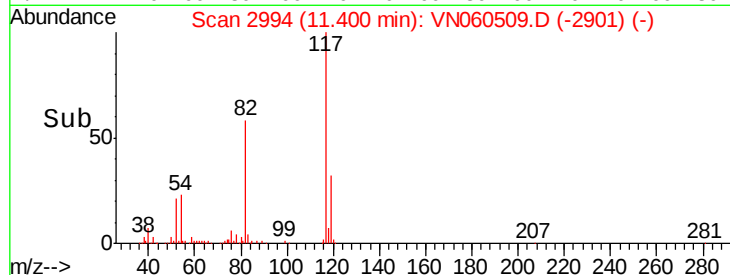
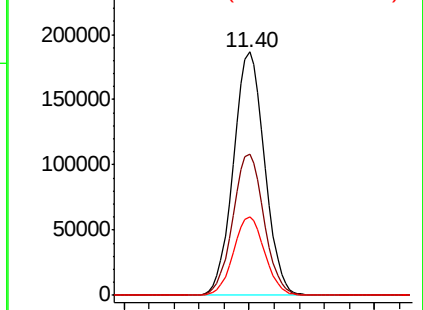
119 32.1 25.8 38.8



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: 0.242 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

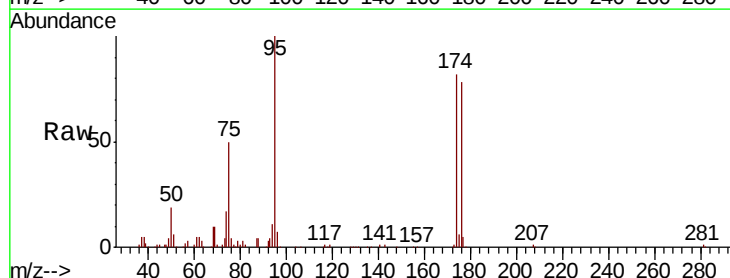
Tgt Ion:173 Resp: 420

Ion Ratio Lower Upper

173 100

175 1828.3 24.1 72.2#

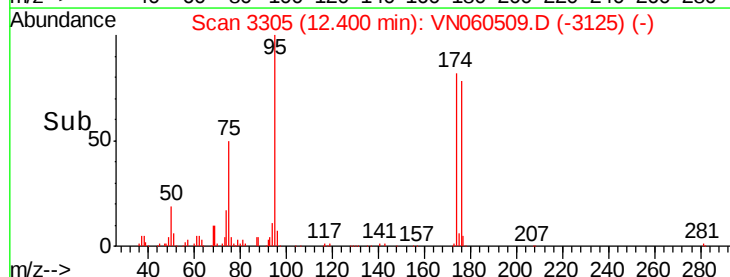
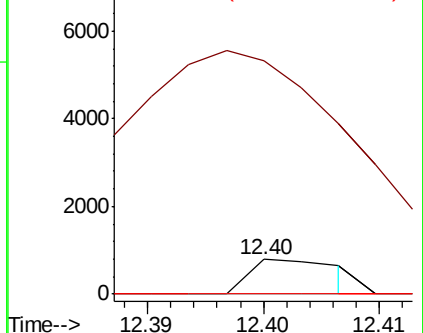
254 0.0 0.0 0.0

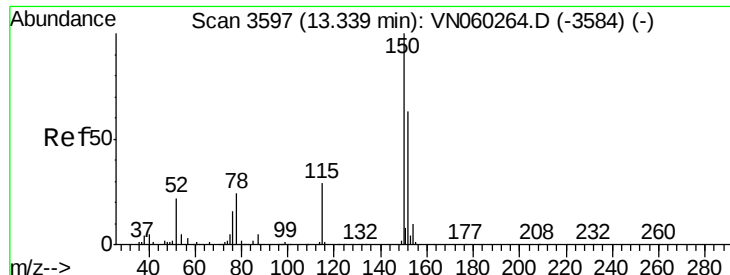


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



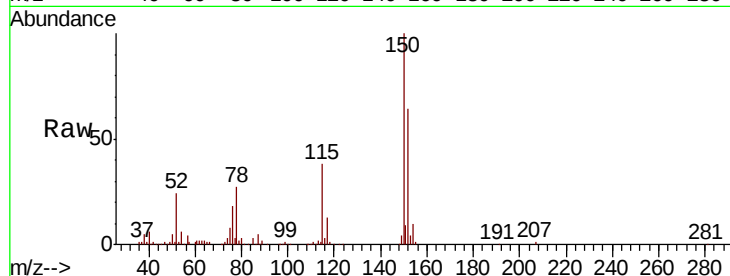


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.4	30.0	90.0
150	156.5	0.0	349.6

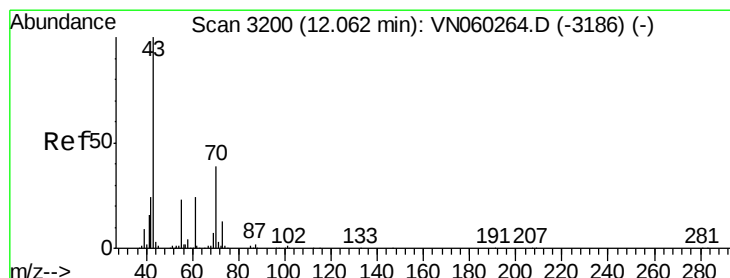
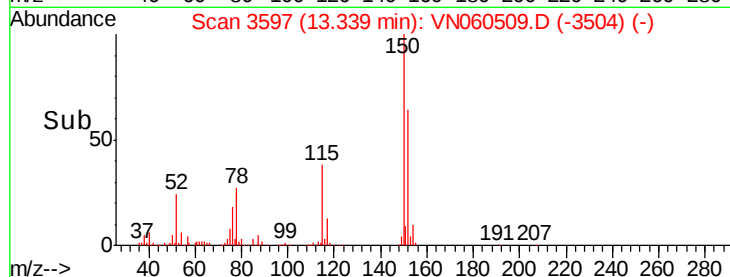
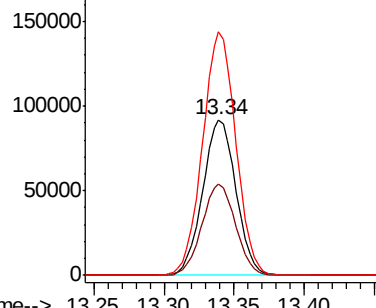


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

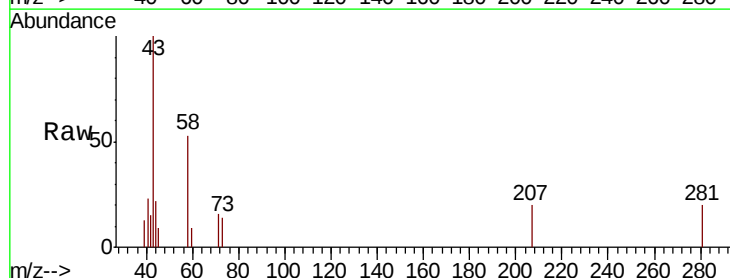
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.556 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060509.D
Acq: 13 Mar 2020 17:42

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	0.0	18.2	27.4#
61	0.0	19.2	28.8#



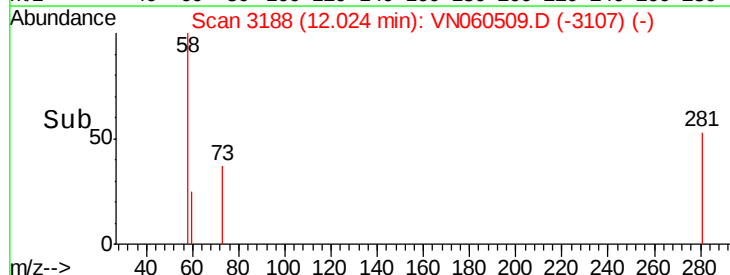
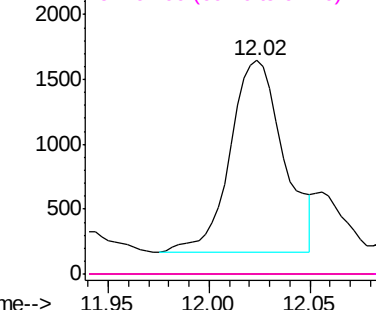
Abundance

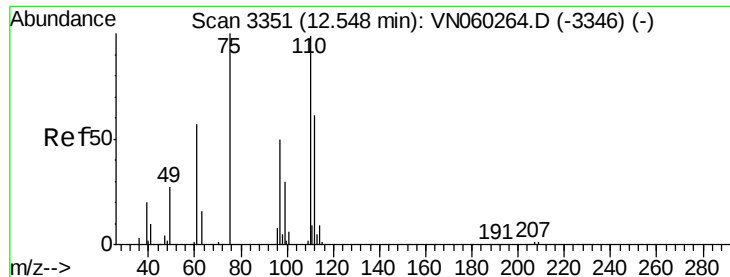
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.158 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

Instrument :

MSVOA_N

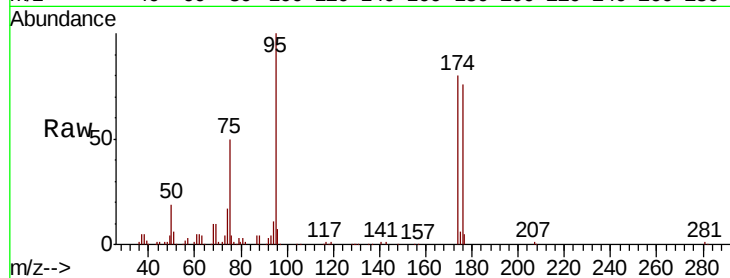
ClientSampled :

Tot Ion: 75 Resp: 80336

Ion Ratio Lower Upper

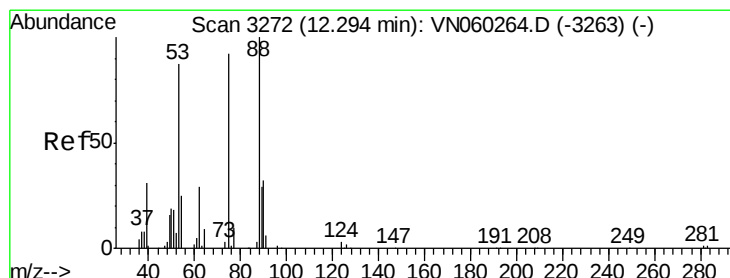
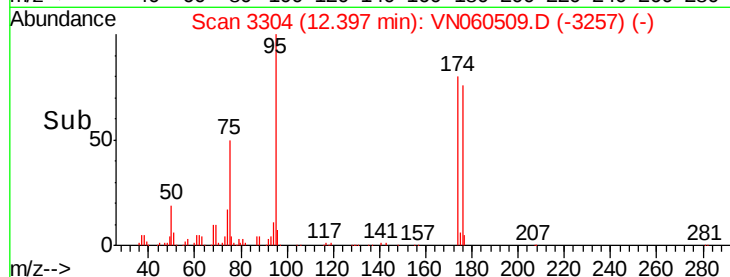
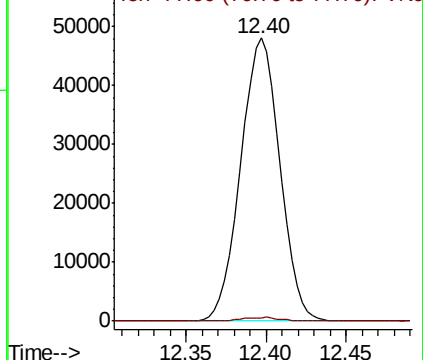
75 100

77 1.1 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: 66.686 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060509.D

Acq: 13 Mar 2020 17:42

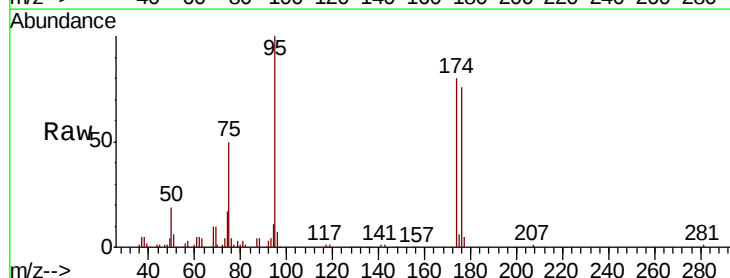
Tgt Ion: 75 Resp: 80336

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



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

