

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030420\
 Data File : VN060354.D
 Acq On : 4 Mar 2020 17:20
 Operator : JC/MD
 Sample : L1775-17
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CR-3

Quant Time: Mar 05 05:12:25 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	195806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	318372	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	297812	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	134961	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	127593	50.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.58%	
35) Dibromofluoromethane	7.57	113	92982	62.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.84%	
50) Toluene-d8	10.08	98	392216	52.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.88%	
62) 4-Bromofluorobenzene	12.40	95	143907	50.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5538	6.826	ug/l	100
18) Methyl Acetate	4.30	43	1587	0.586	ug/l #	52
20) Methylene Chloride	4.52	84	3799	1.705	ug/l	94
25) 2-Butanone	6.81	43	815	0.622	ug/l #	49
31) Cyclohexane	7.64	56	4367	Below Cal	#	5
36) 1,1-Dichloropropene	7.64	75	15095	4.975	ug/l #	49
37) Ethyl Acetate	6.81	43	815	0.284	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19036	6.444	ug/l #	17
43) Isopropyl Acetate	8.14	43	57693	11.470	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	974	0.422	ug/l #	44
48) Methyl methacrylate	9.16	41	2953	1.287	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4345	1.524	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	24032	6.212	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3917	1.077	ug/l #	42
59) 2-Hexanone	10.75	43	57896	27.650	ug/l #	51
74) N-amyl acetate	12.02	43	3991	0.913	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	75056	25.348	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75056	69.972	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.27	75	124	0.201	ug/l #	3
95) Naphthalene	15.12	128	229	Below Cal	#	69

(#) = 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: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampled :

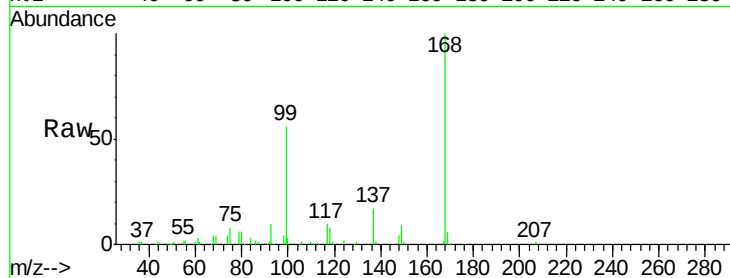
CR-3

Tgt Ion:168 Resp: 195806

Ion Ratio Lower Upper

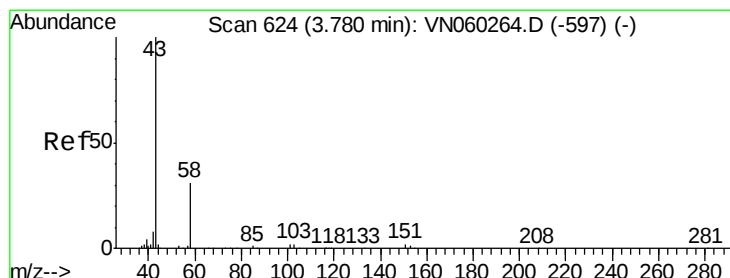
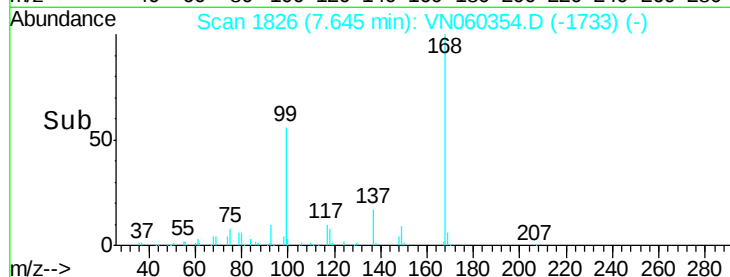
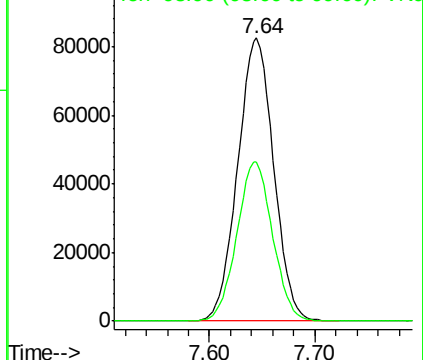
168 100

99 56.3 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: 6.826 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060354.D

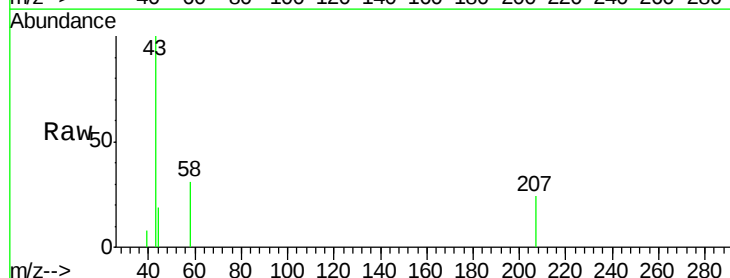
Acq: 4 Mar 2020 17:20

Tgt Ion: 43 Resp: 5538

Ion Ratio Lower Upper

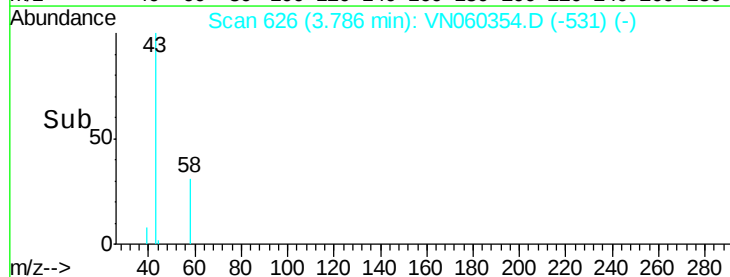
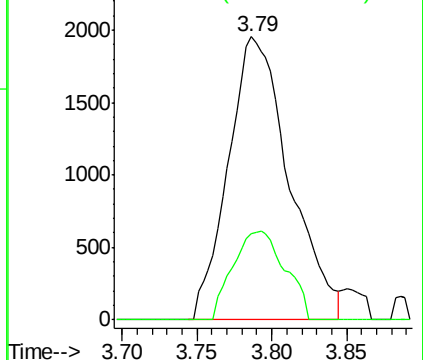
43 100

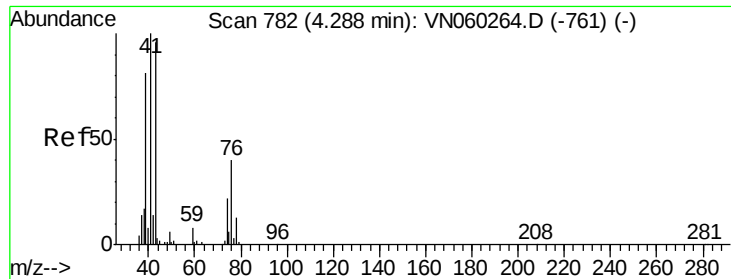
58 30.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

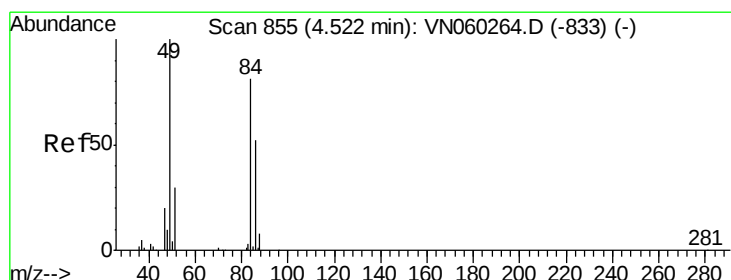
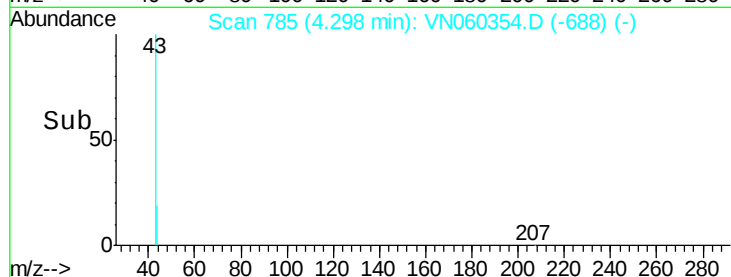
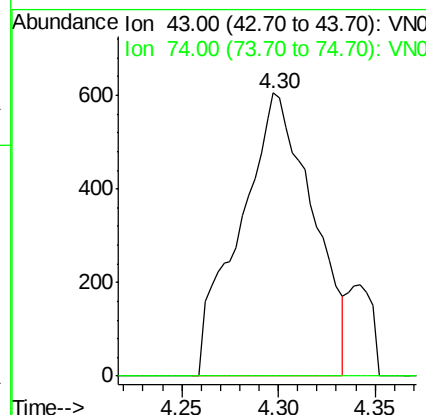
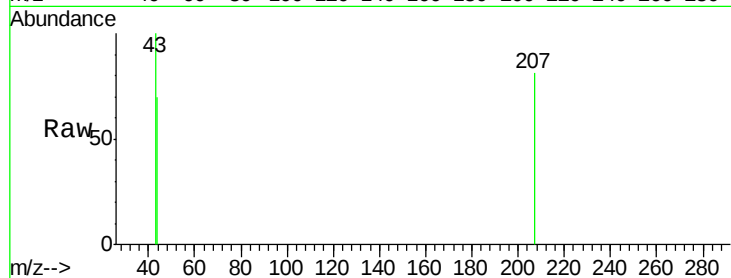




#18
Methyl Acetate
Concen: 0.586 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

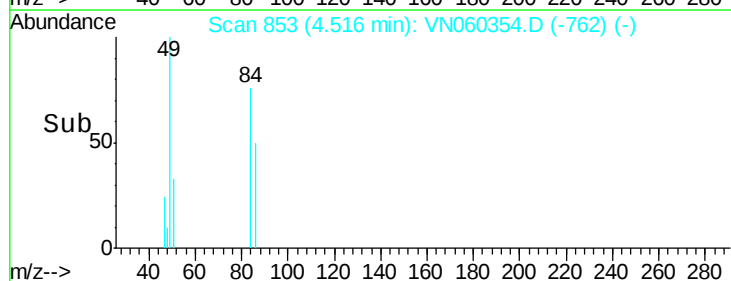
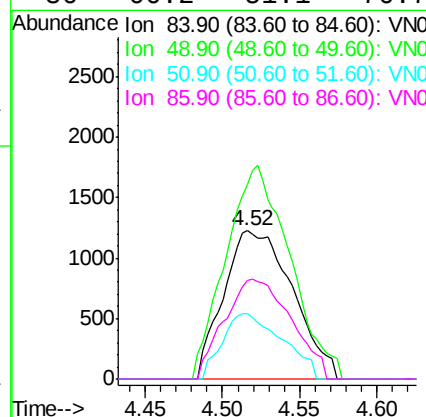
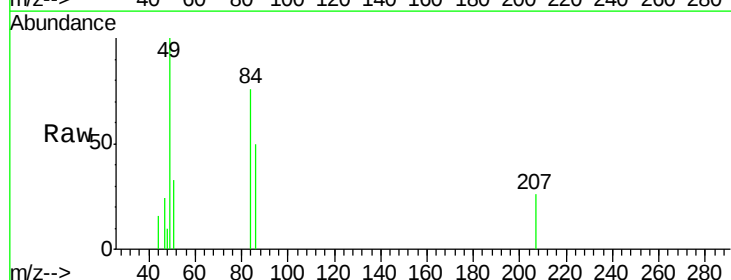
Instrument :
MSVOA_N
ClientSampleId :
CR-3

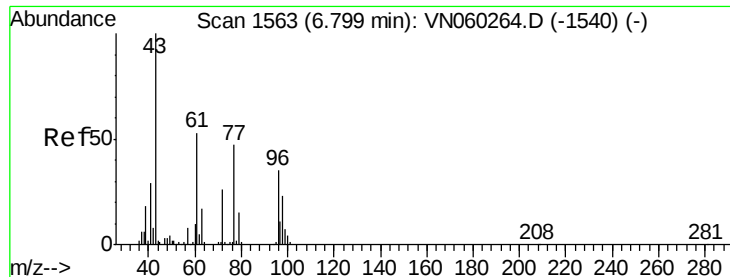
Tgt Ion: 43 Resp: 1587
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.705 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

Tgt Ion: 84 Resp: 3799
Ion Ratio Lower Upper
84 100
49 131.6 99.3 148.9
51 44.0 30.1 45.1
86 66.2 51.1 76.7

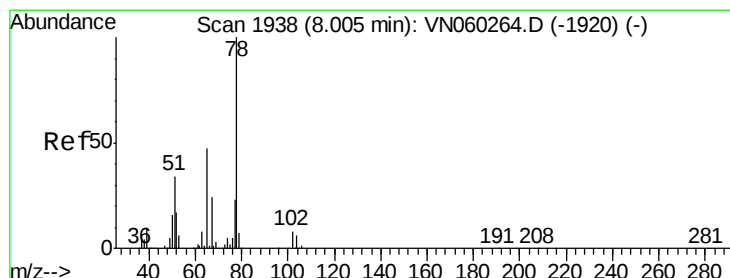
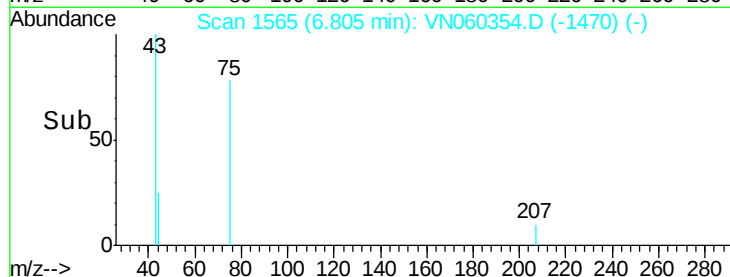
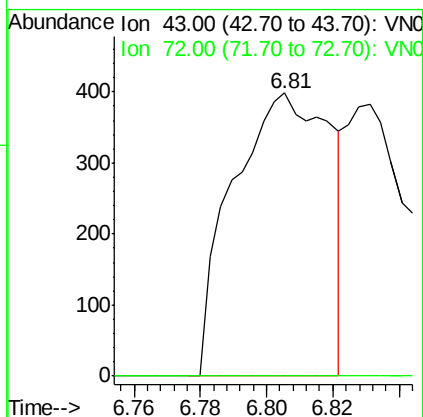
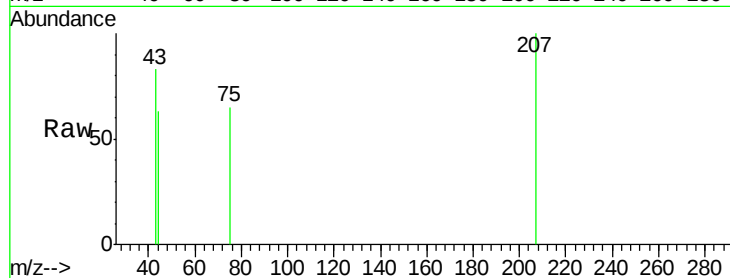




#25
2-Butanone
Concen: 0.622 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

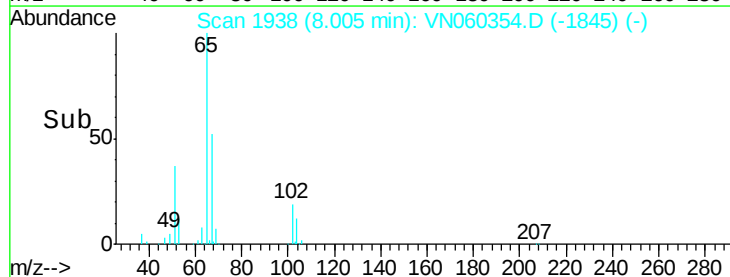
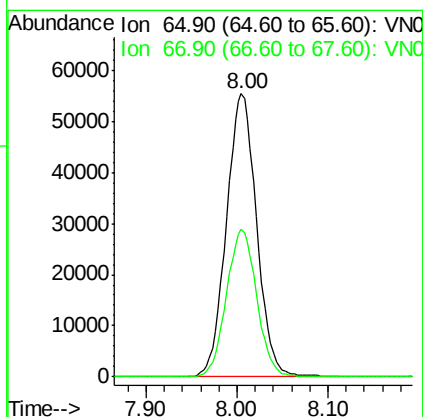
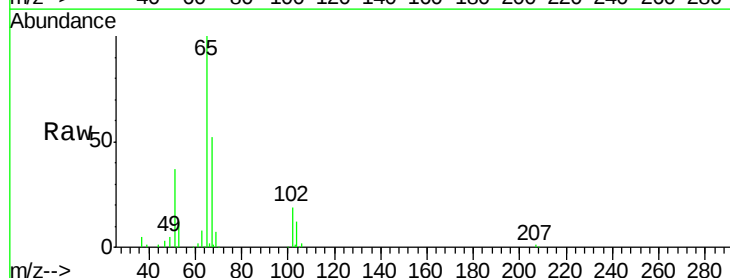
Instrument :
MSVOA_N
ClientSampled :
CR-3

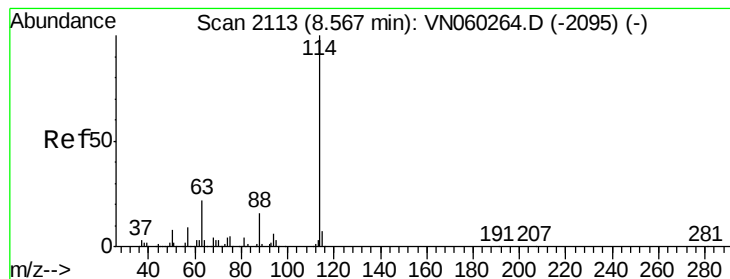
Tgt Ion: 43 Resp: 815
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 50.789 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

Tgt Ion: 65 Resp: 127593
Ion Ratio Lower Upper
65 100
67 52.1 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: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

CR-3

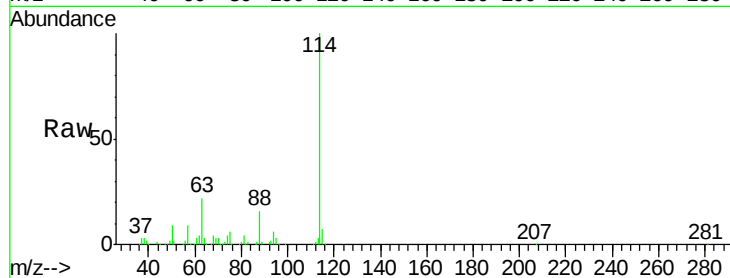
Tgt Ion:114 Resp: 318372

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

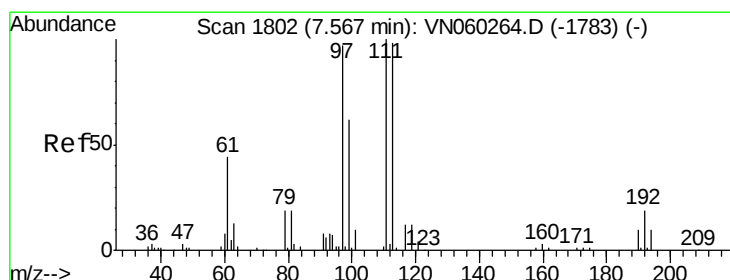
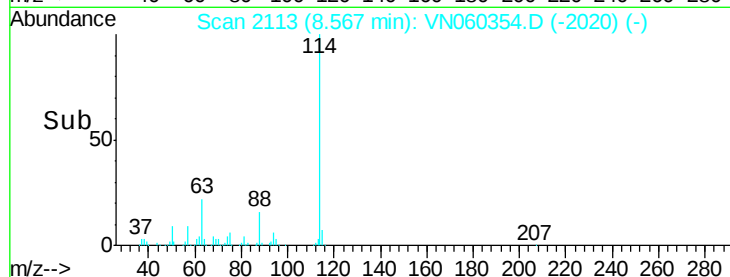
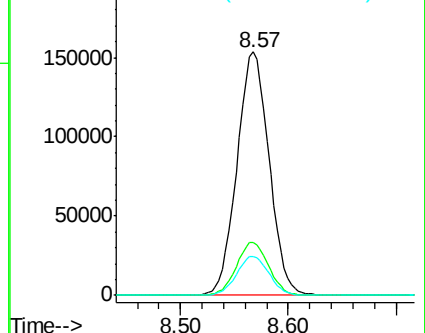
88 16.1 0.0 31.6



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: 62.920 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

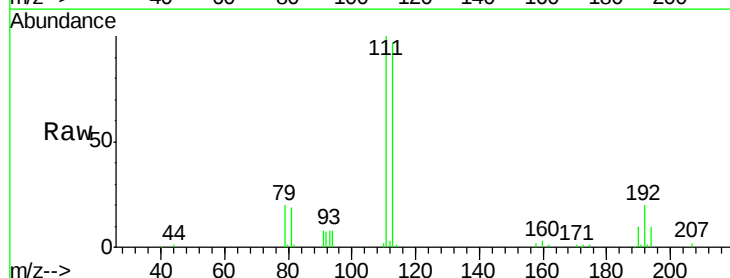
Tgt Ion:113 Resp: 92982

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

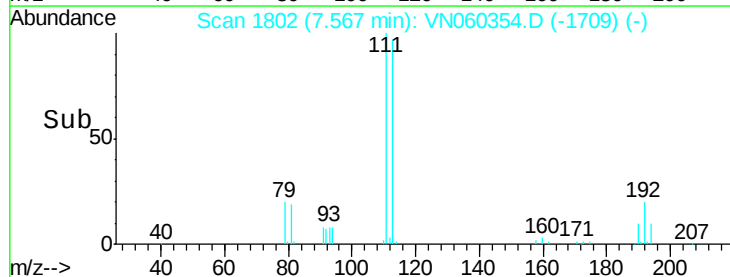
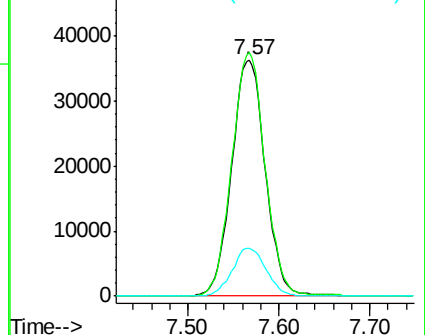
192 20.5 16.2 24.2

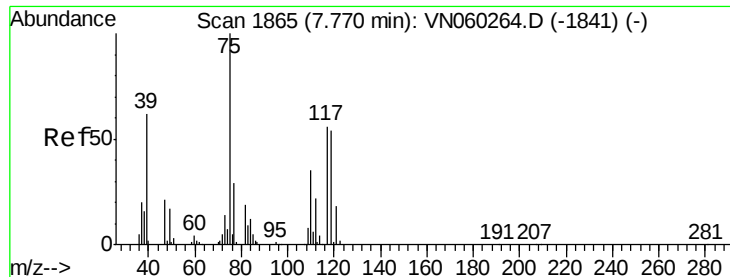


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.975 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampled :

CR-3

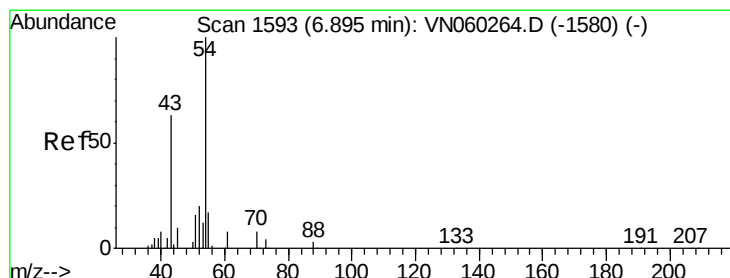
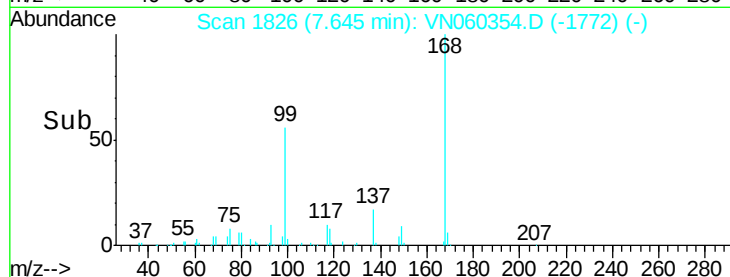
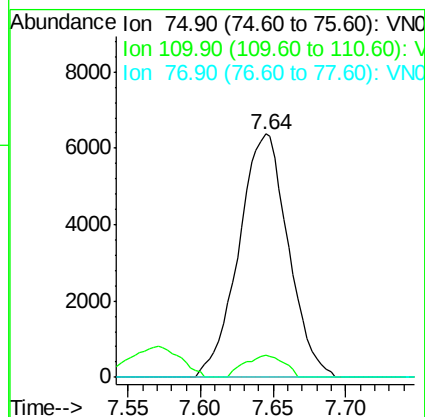
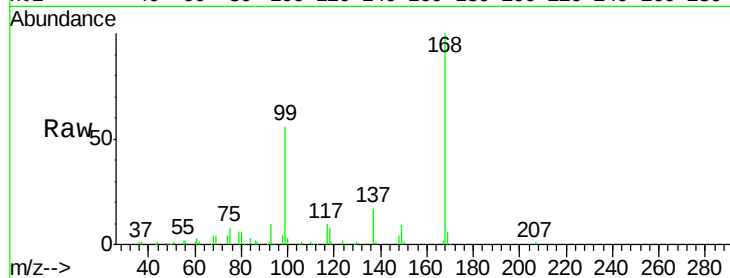
Tgt Ion: 75 Resp: 15095

Ion Ratio Lower Upper

75 100

110 7.3 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.284 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

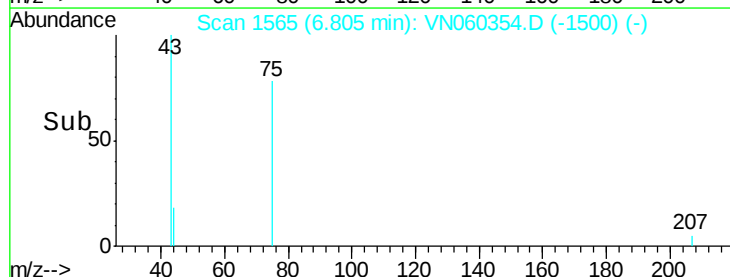
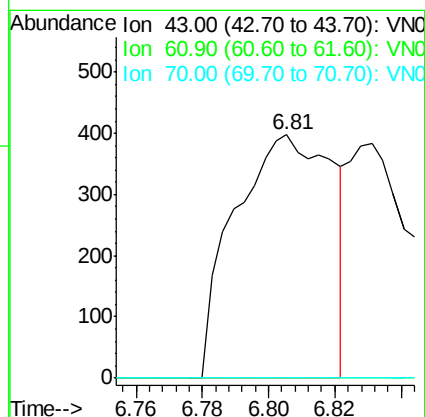
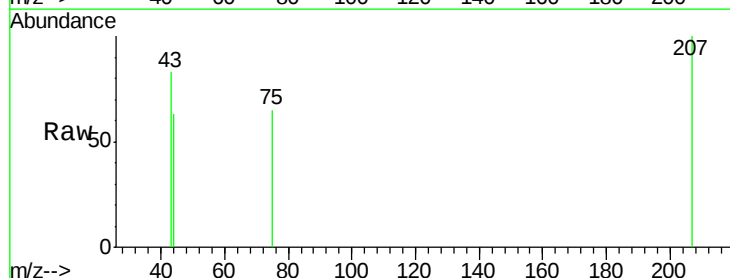
Tgt Ion: 43 Resp: 815

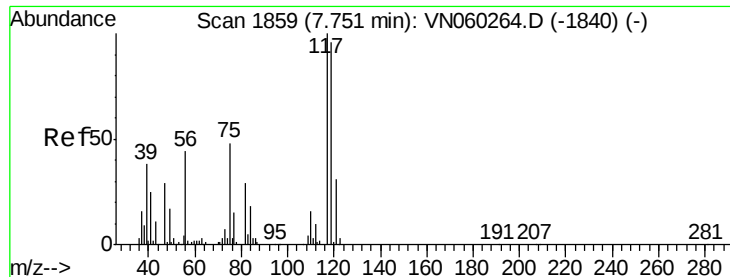
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.444 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampled :

CR-3

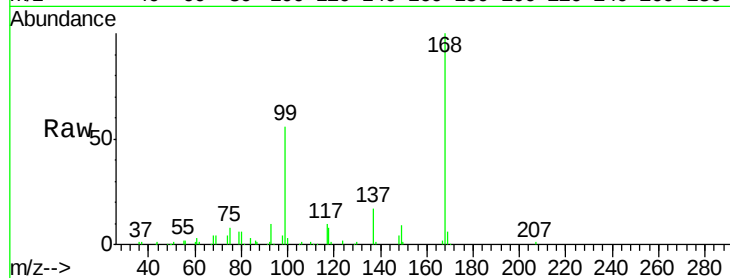
Tgt Ion:117 Resp: 19036

Ion Ratio Lower Upper

117 100

119 6.0 76.7 115.1#

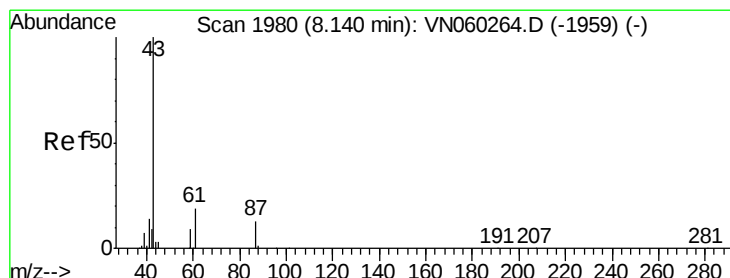
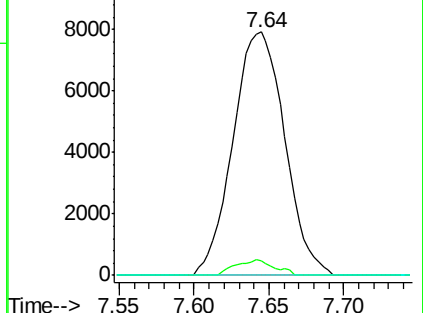
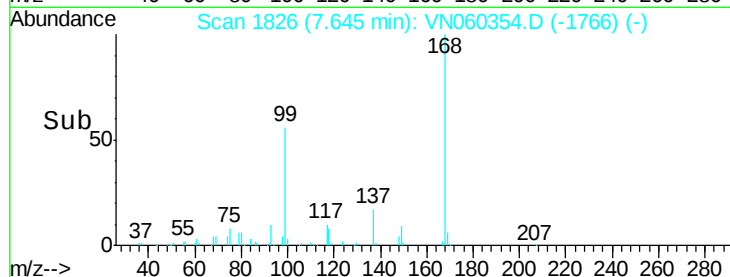
121 0.0 24.5 36.7#



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: 11.470 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

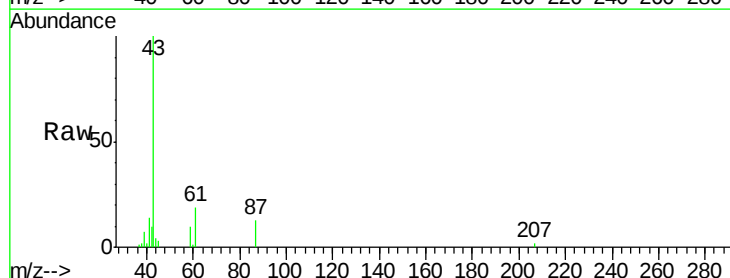
Tgt Ion: 43 Resp: 57693

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

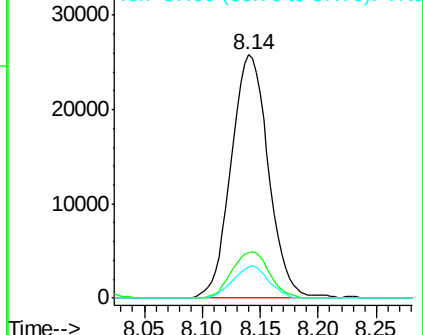
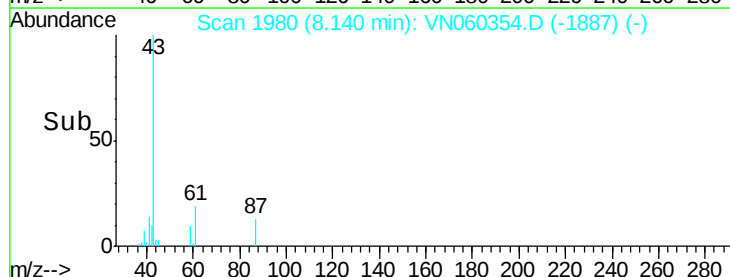
87 12.5 10.6 16.0

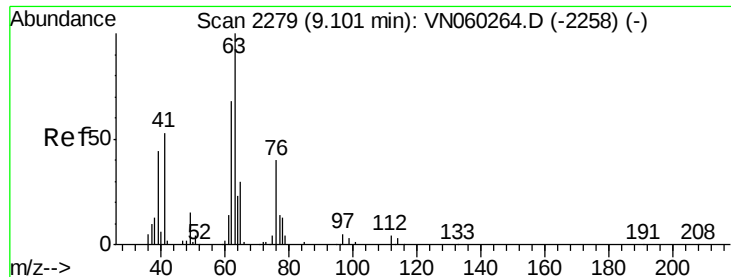


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

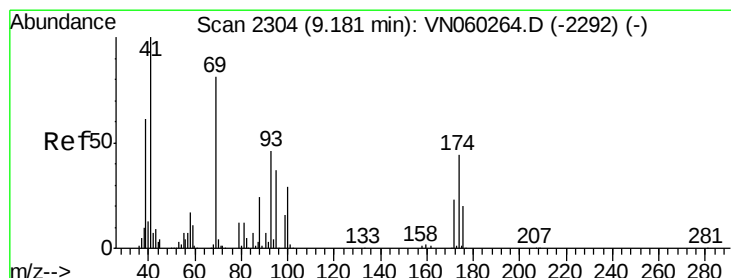
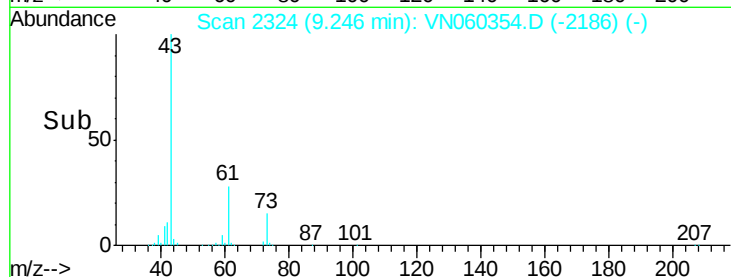
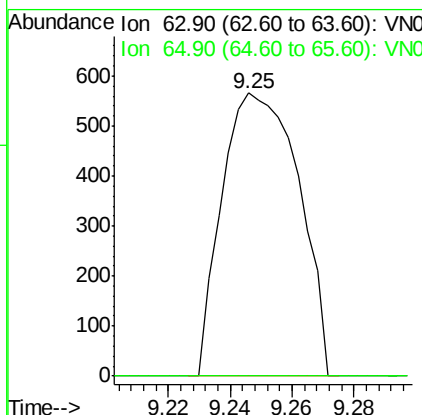
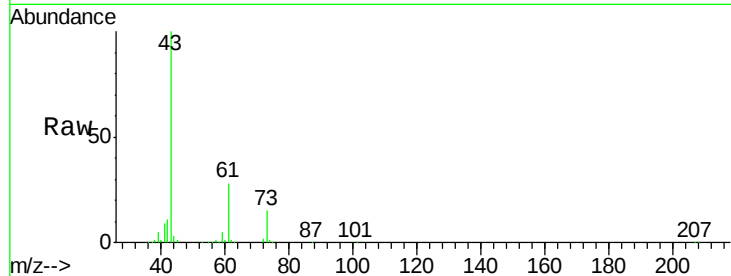




#45
 1,2-Dichloropropane
 Concen: 0.422 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060354.D
 Acq: 4 Mar 2020 17:20

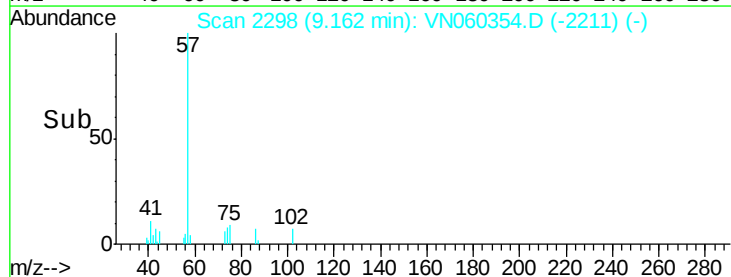
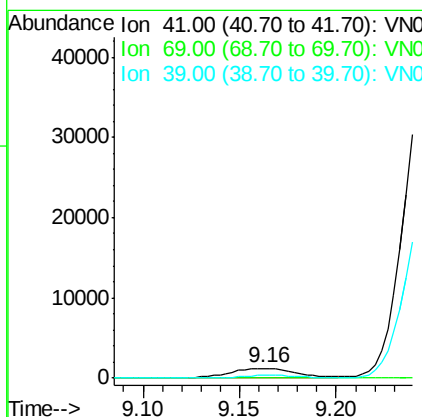
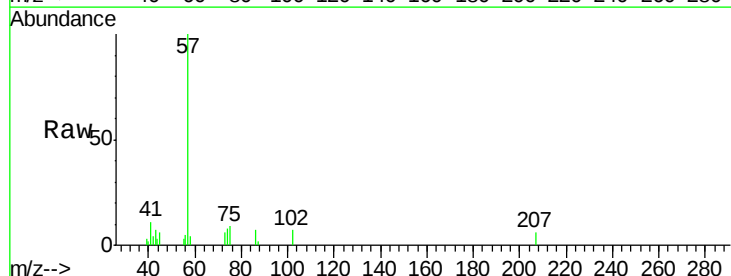
Instrument :
 MSVOA_N
 ClientSampled :
 CR-3

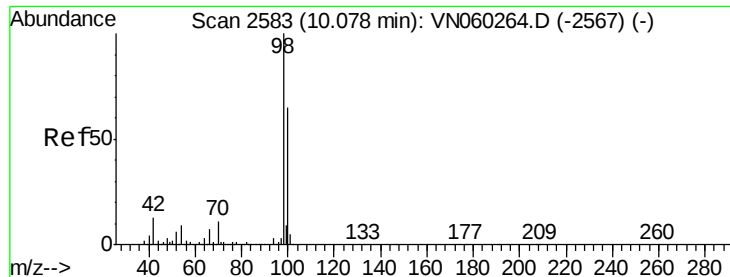
Tgt Ion: 63 Resp: 974
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.287 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060354.D
 Acq: 4 Mar 2020 17:20

Tgt Ion: 41 Resp: 2953
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.441 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

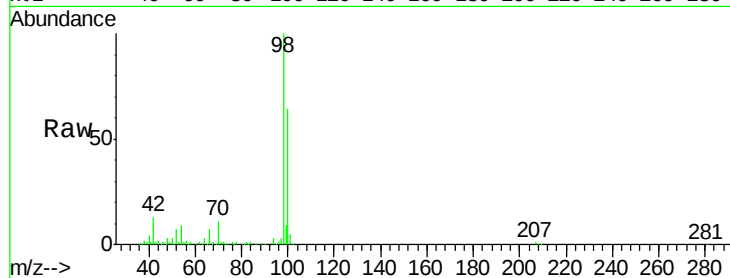
CR-3

Tgt Ion: 98 Resp: 392216

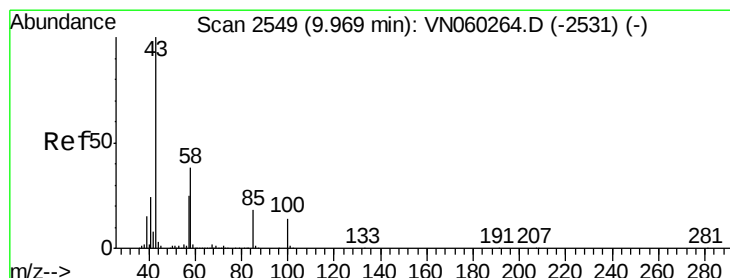
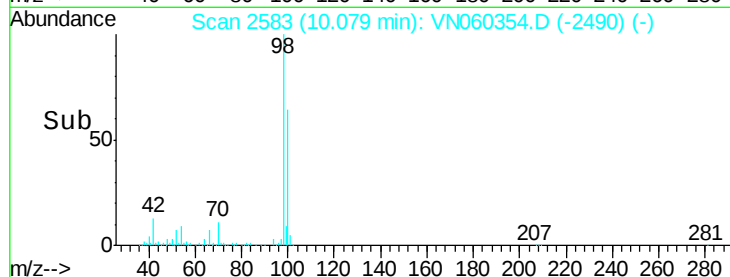
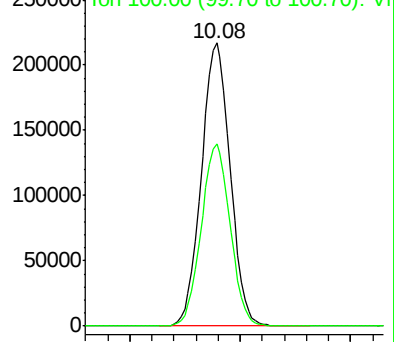
Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.524 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060354.D

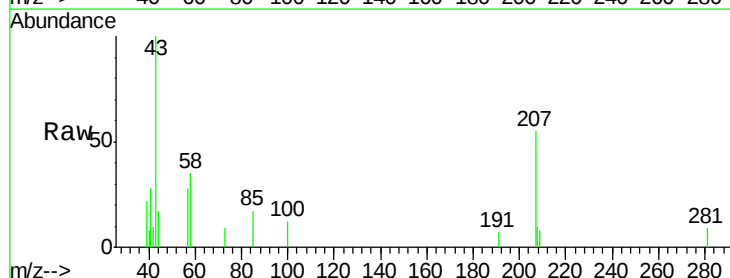
Acq: 4 Mar 2020 17:20

Tgt Ion: 43 Resp: 4345

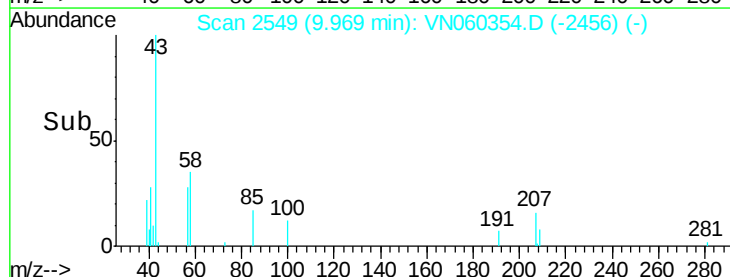
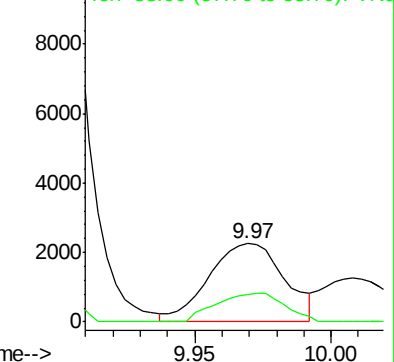
Ion Ratio Lower Upper

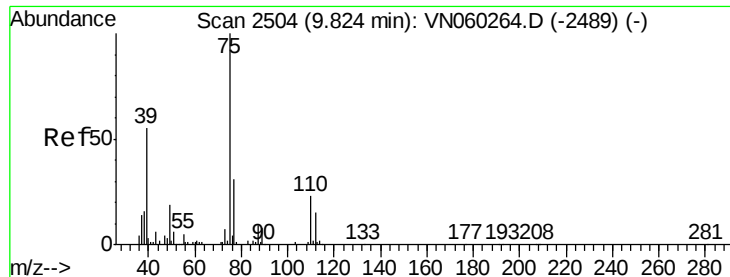
43 100

58 33.5 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.212 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

CR-3

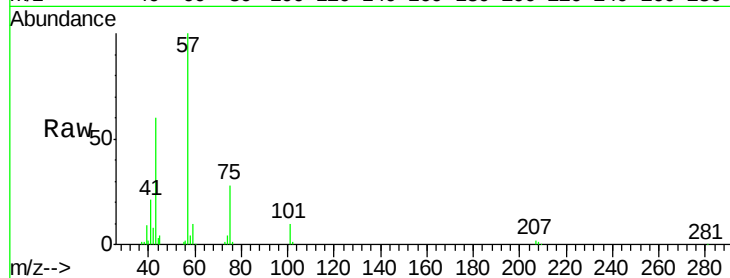
Tgt Ion: 75 Resp: 24032

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

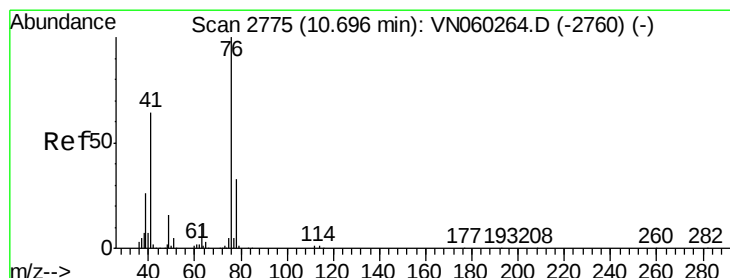
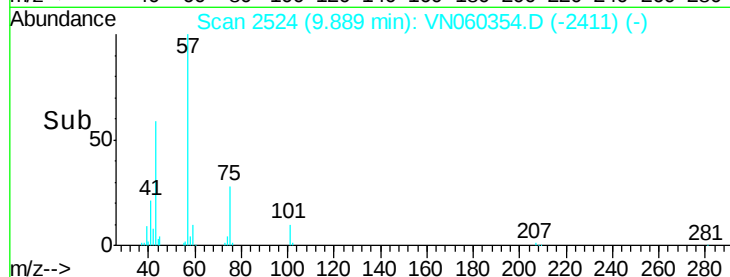
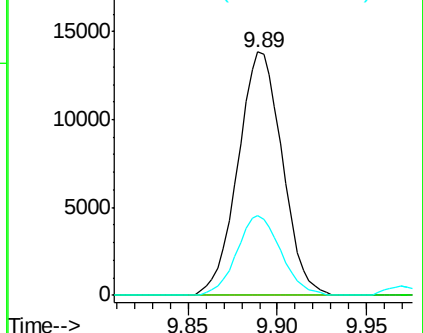
39 33.0 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060354.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060354.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060354.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 1.077 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060354.D

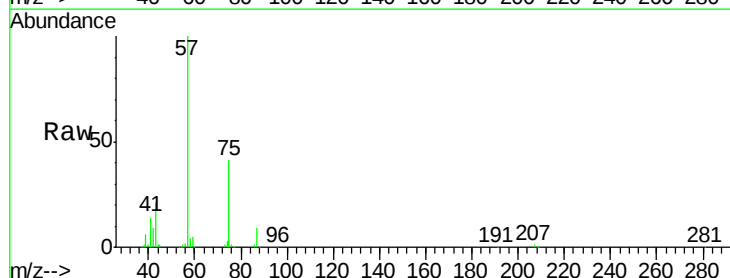
Acq: 4 Mar 2020 17:20

Tgt Ion: 76 Resp: 3917

Ion Ratio Lower Upper

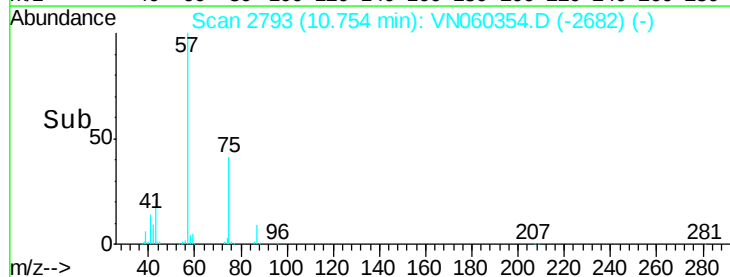
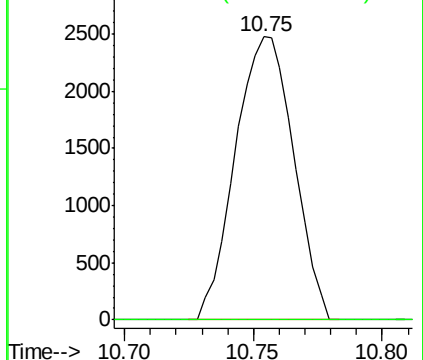
76 100

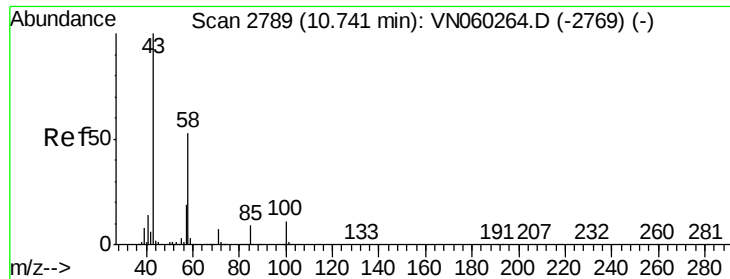
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN060354.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060354.D (-2682) (-)

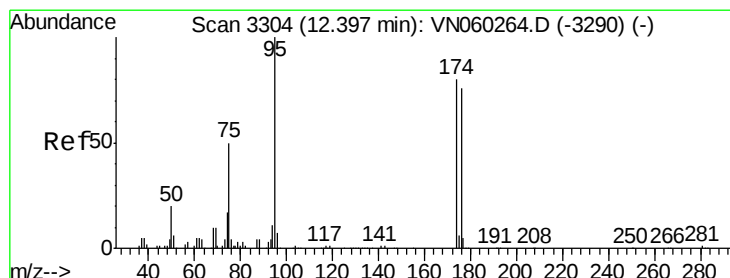
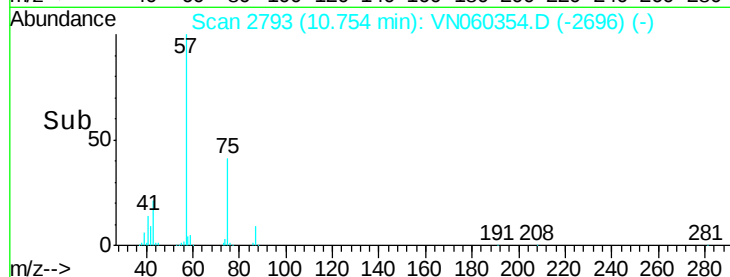
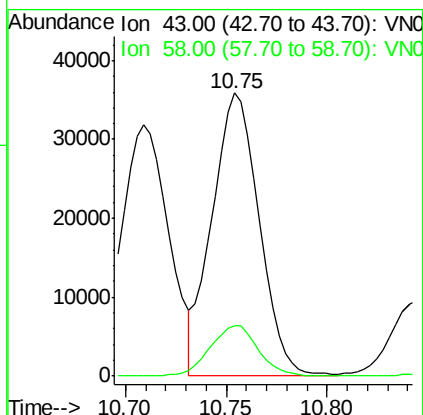
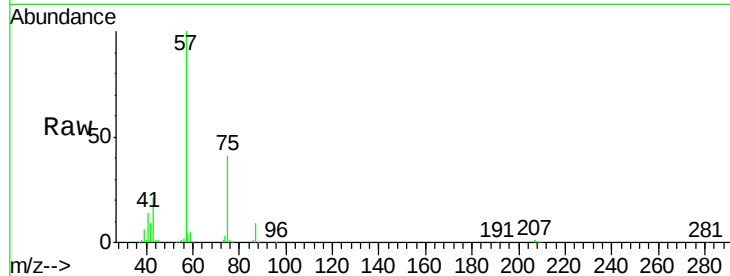




#59
2-Hexanone
Concen: 27.650 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

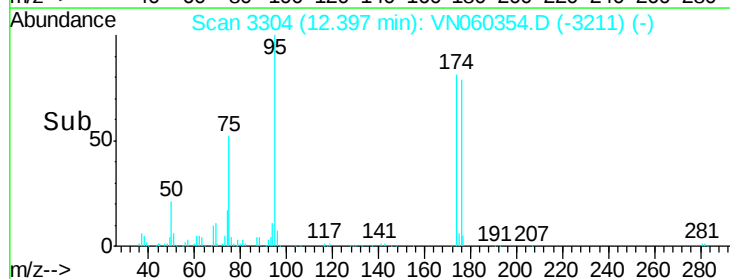
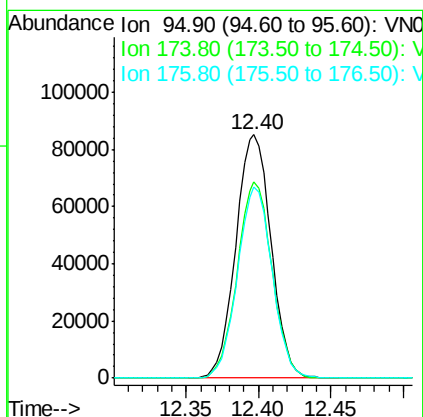
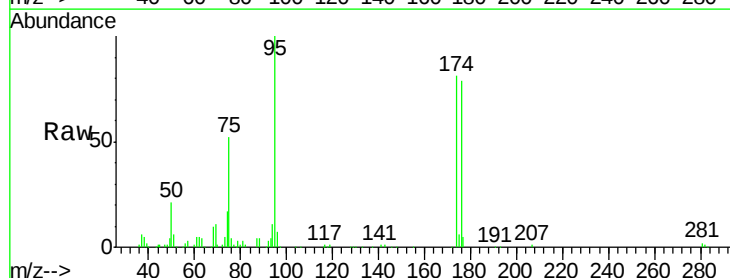
Instrument :
MSVOA_N
ClientSampled :
CR-3

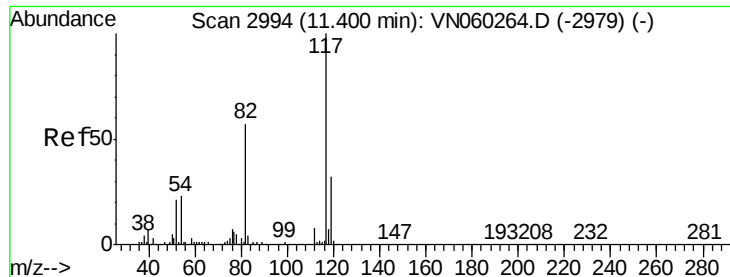
Tgt Ion: 43 Resp: 57896
Ion Ratio Lower Upper
43 100
58 18.3 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 50.757 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

Tgt Ion: 95 Resp: 143907
Ion Ratio Lower Upper
95 100
174 79.5 0.0 159.2
176 77.2 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: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

CR-3

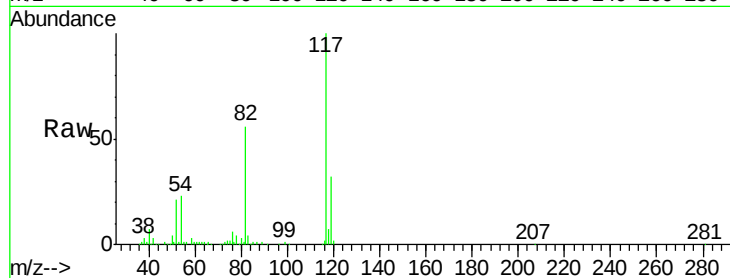
Tgt Ion:117 Resp: 297812

Ion Ratio Lower Upper

117 100

82 56.4 45.8 68.6

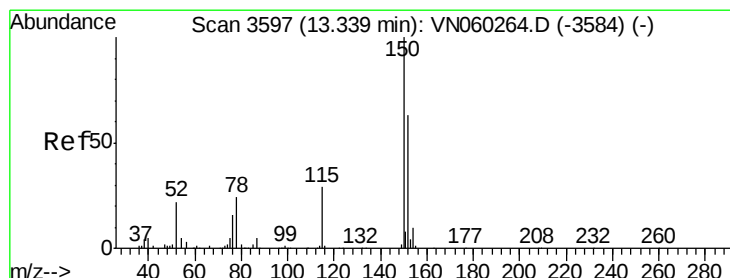
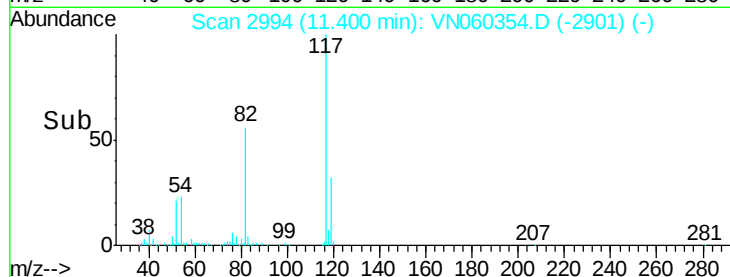
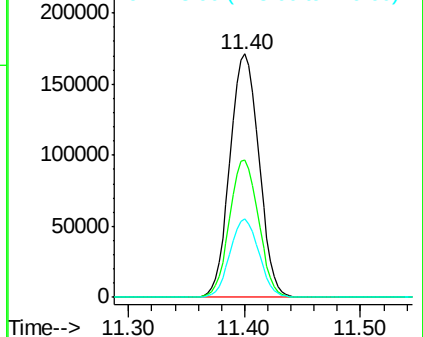
119 32.0 25.8 38.8



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

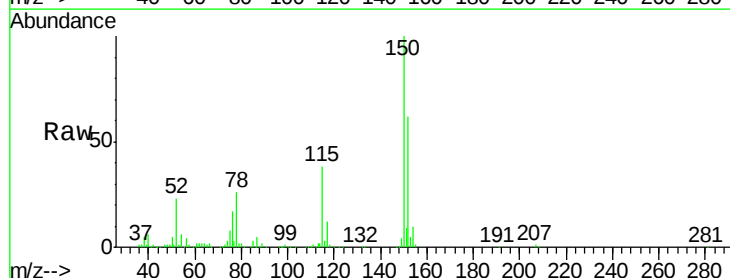
Tgt Ion:152 Resp: 134961

Ion Ratio Lower Upper

152 100

115 60.8 30.0 90.0

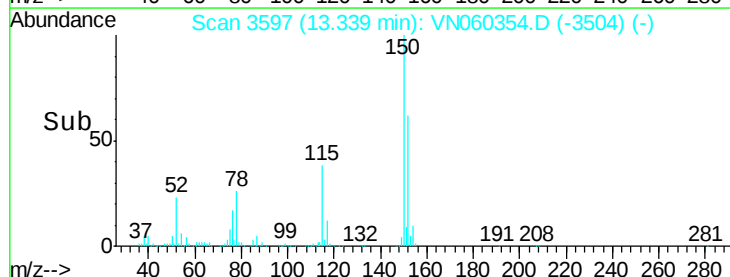
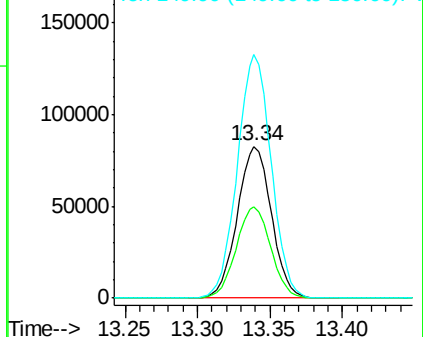
150 159.5 0.0 349.6

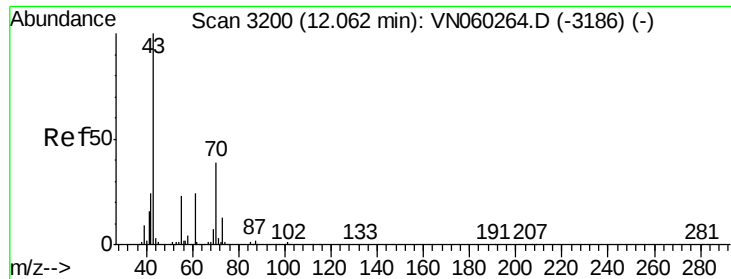


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.913 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

CR-3

Tgt Ion: 43 Resp: 3991

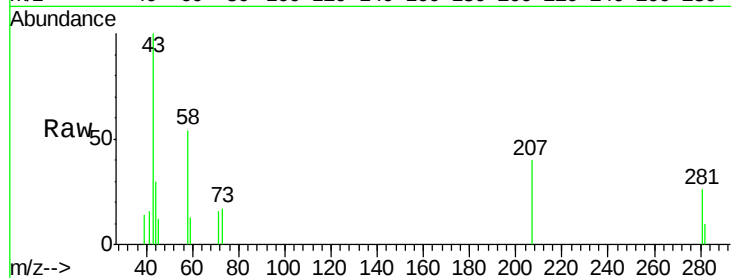
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

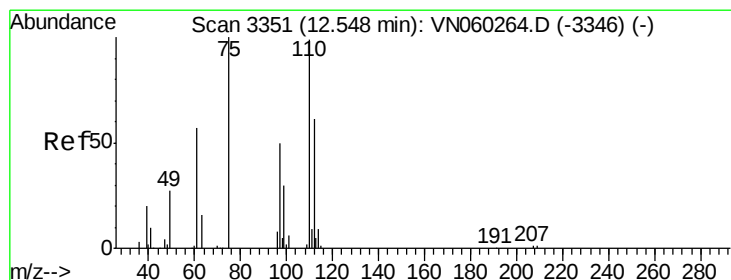
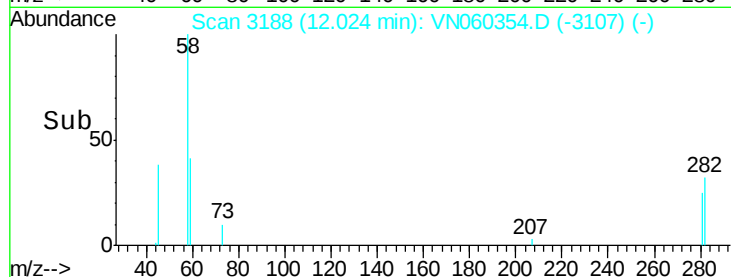
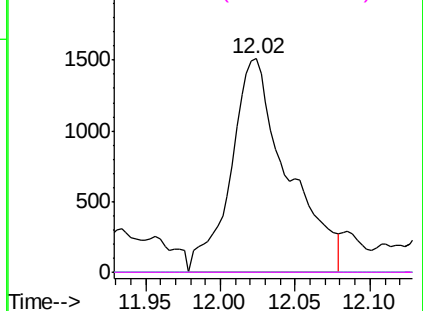


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.348 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060354.D

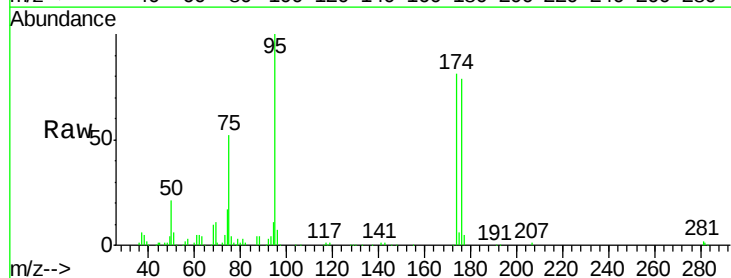
Acq: 4 Mar 2020 17:20

Tgt Ion: 75 Resp: 75056

Ion Ratio Lower Upper

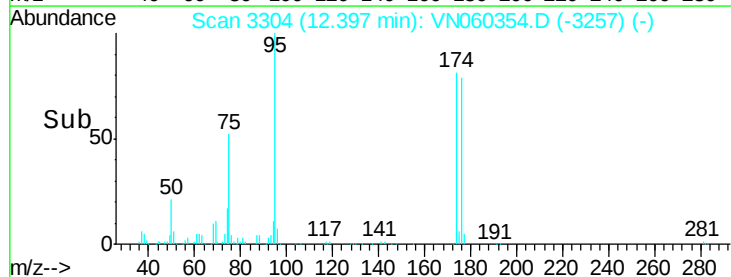
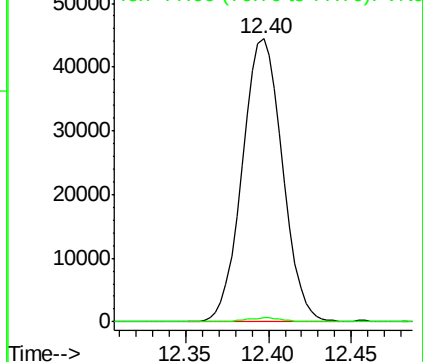
75 100

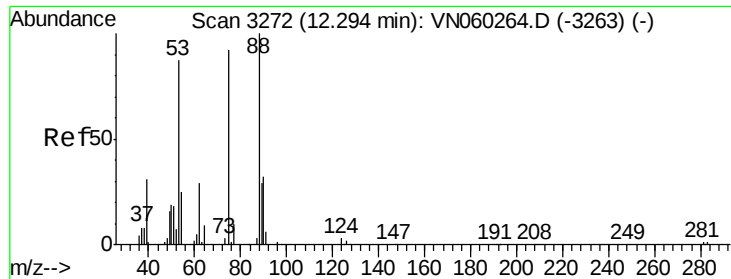
77 1.2 0.0 0.0#



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: 69.972 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

CR-3

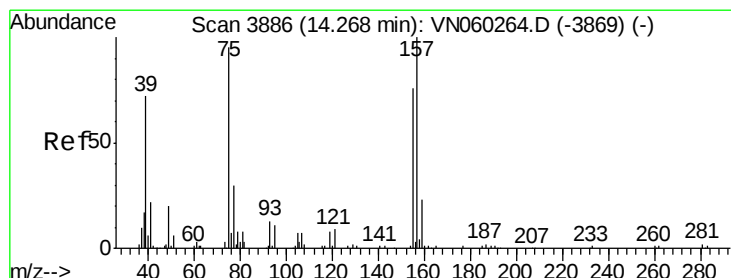
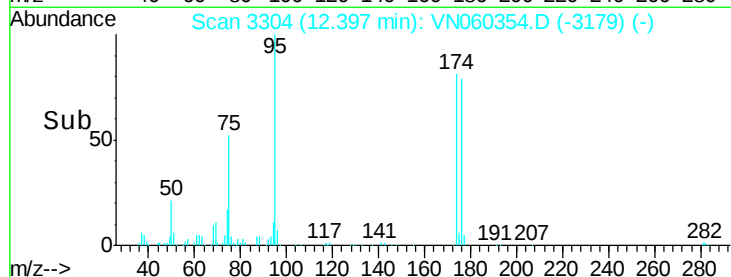
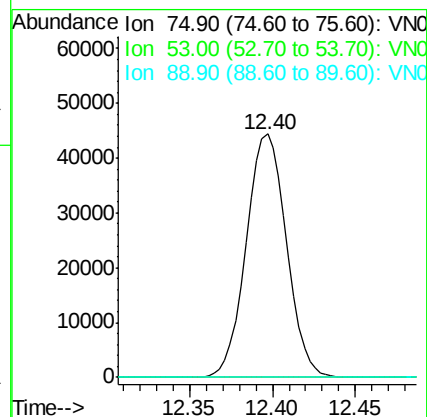
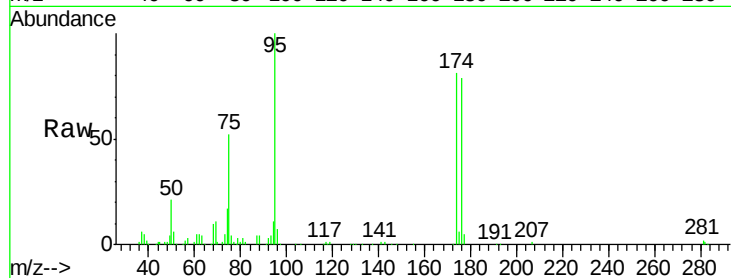
Tgt Ion: 75 Resp: 75056

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.201 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN060354.D

Acq: 4 Mar 2020 17:20

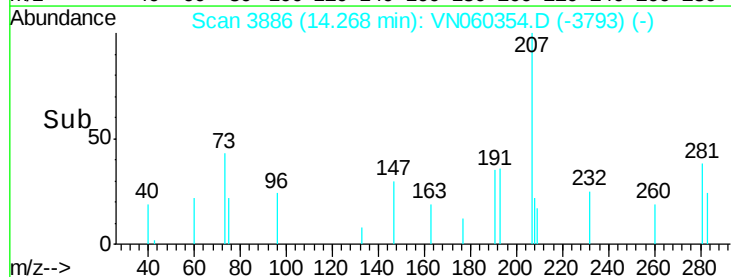
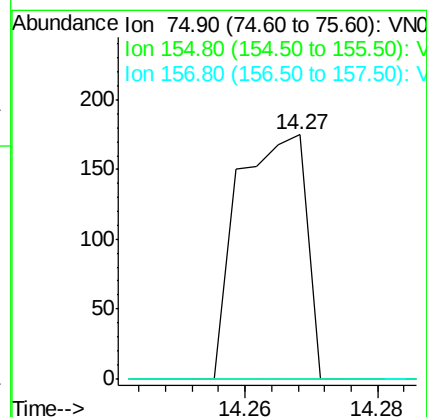
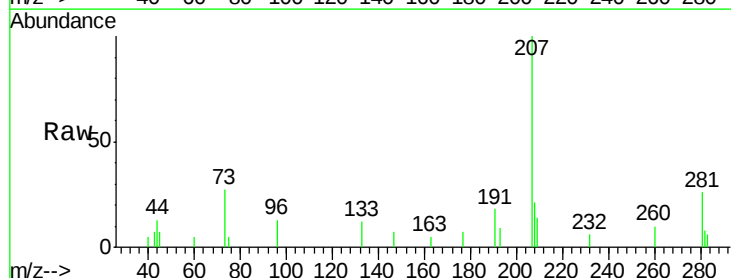
Tgt Ion: 75 Resp: 124

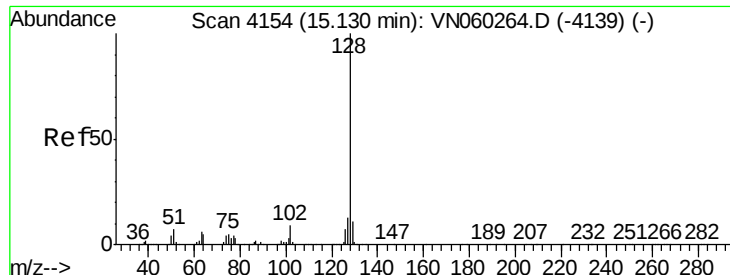
Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

157 0.0 52.5 157.5#





#95
Naphthalene
Concen: Below Cal
RT: 15.12 min Scan# 4152
Delta R.T. -0.01 min
Lab File: VN060354.D
Acq: 4 Mar 2020 17:20

Instrument :
MSVOA_N
ClientSampleId :
CR-3

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#

