

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060293.D
 Acq On : 28 Feb 2020 18:28
 Operator : JC/MD
 Sample : L1718-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

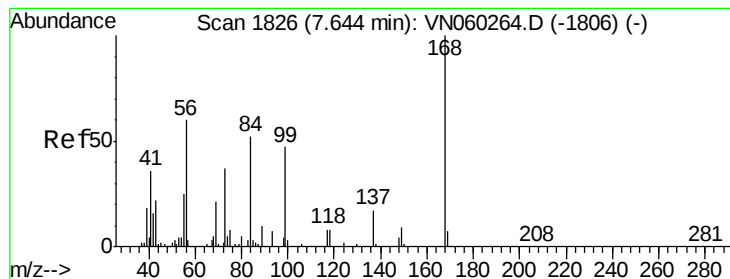
Quant Time: Feb 29 00:39:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	199252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	324954	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145348	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	127153	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
35) Dibromofluoromethane	7.56	113	91310	60.54	ug/l	0.00
Spiked Amount			Recovery	=	121.08%	
50) Toluene-d8	10.08	98	401104	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	
62) 4-Bromofluorobenzene	12.40	95	149017	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	8535	10.339	ug/l	97
18) Methyl Acetate	4.29	43	1743	0.633	ug/l #	52
20) Methylene Chloride	4.52	84	5058	2.231	ug/l #	93
21) trans-1,2-Dichloroethene	5.05	96	59	Below Cal	#	1
25) 2-Butanone	6.81	43	1688	1.266	ug/l #	49
31) Cyclohexane	7.64	56	4178	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15615	5.042	ug/l #	50
37) Ethyl Acetate	6.81	43	1688	0.576	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18973	6.292	ug/l #	16
43) Isopropyl Acetate	8.14	43	56712	11.047	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	1019	0.432	ug/l #	44
48) Methyl methacrylate	9.16	41	3064	1.309	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5161	1.773	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	24710	6.257	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4187	1.128	ug/l #	42
59) 2-Hexanone	10.75	43	57675	26.987	ug/l #	51
74) N-amyl acetate	12.02	43	4023	0.855	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	78261	24.541	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78261	67.746	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	98	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	103	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.24	75	157	0.237	ug/l #	3
95) Naphthalene	15.14	128	247	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	29	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060293.D

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Instrument :

MSVOA_N

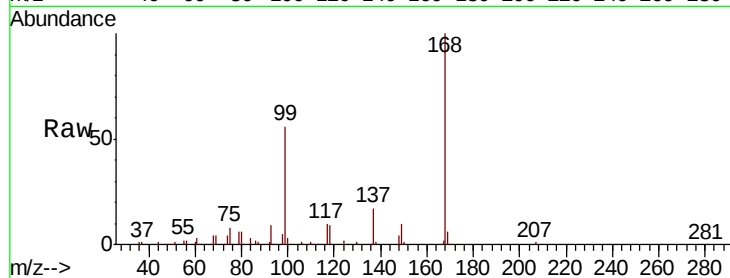
ClientSampled :

Tot Ion:168 Resp: 199252

Ion Ratio Lower Upper

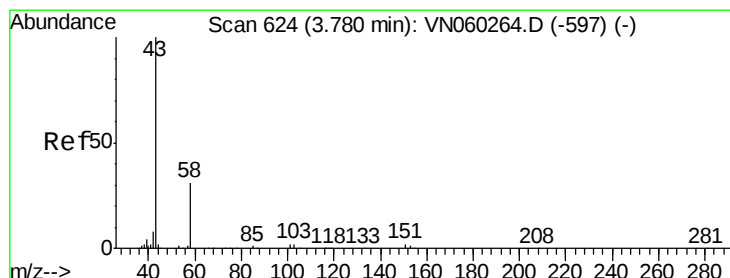
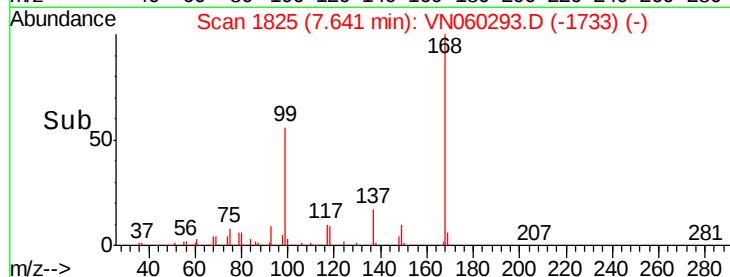
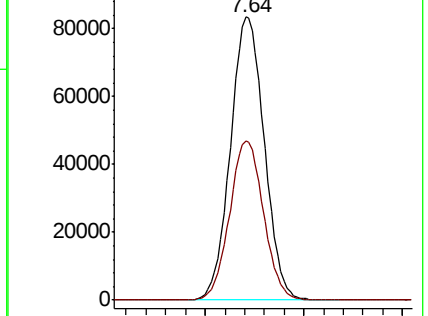
168 100

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: 10.339 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060293.D

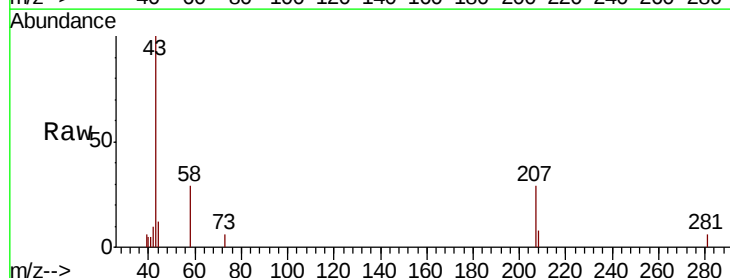
Acq: 28 Feb 2020 18:28

Tgt Ion: 43 Resp: 8535

Ion Ratio Lower Upper

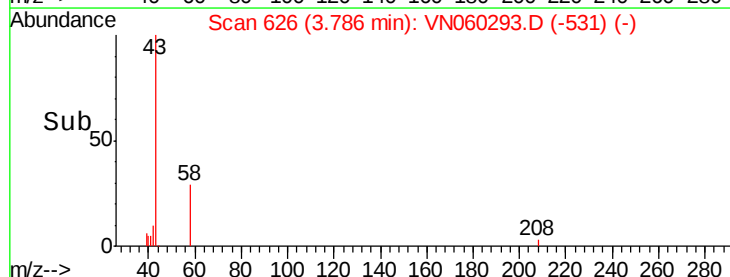
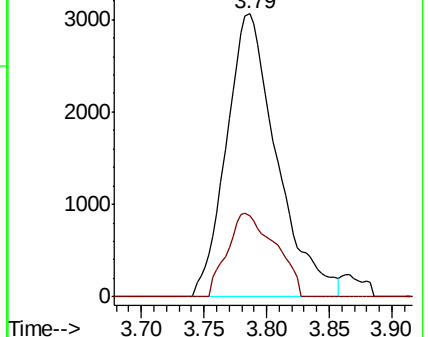
43 100

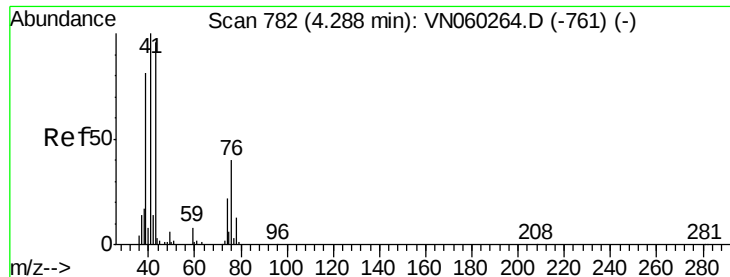
58 28.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

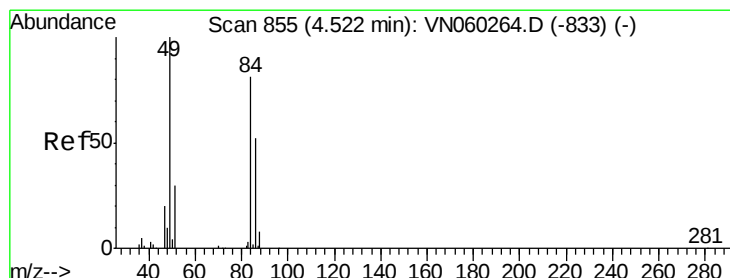
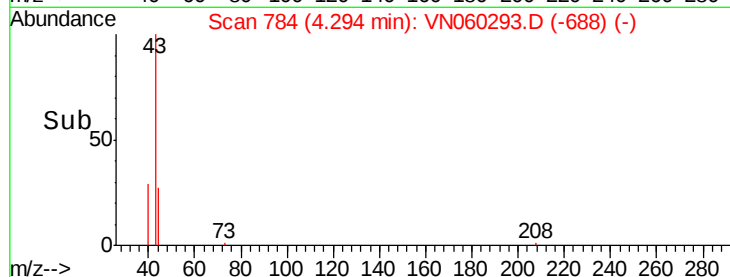
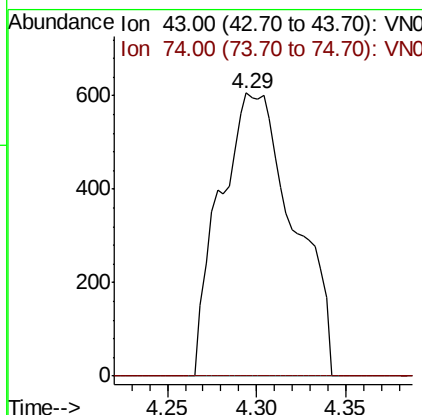
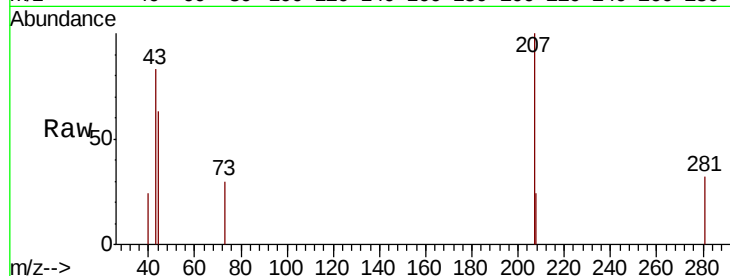




#18
Methyl Acetate
Concen: 0.633 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

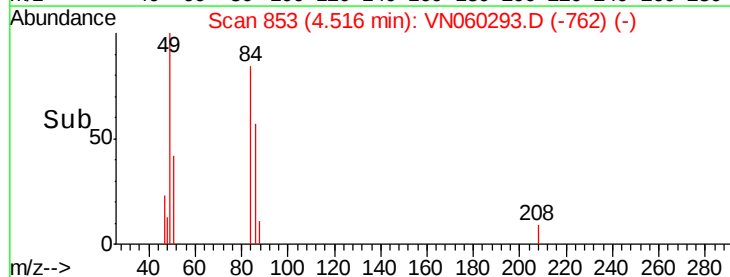
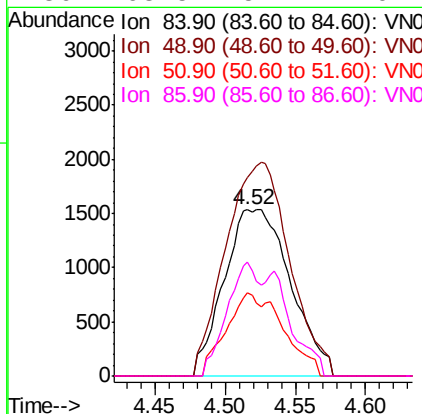
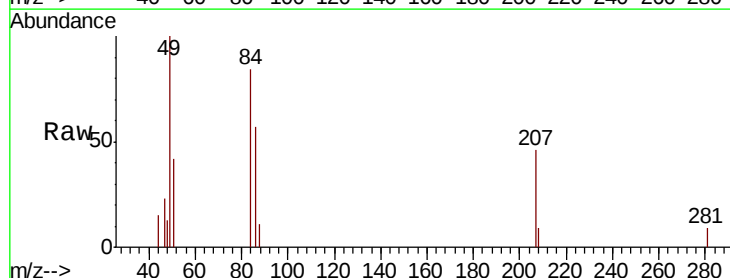
Instrument :
MSVOA_N
ClientSampleId :

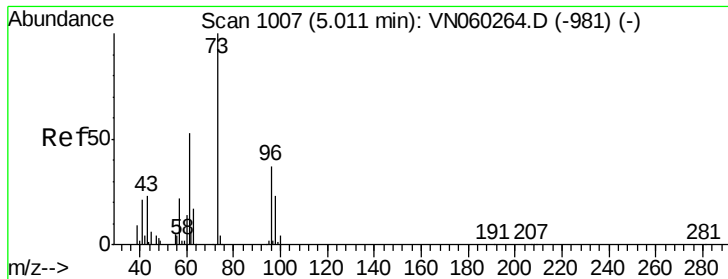
Tot Ion: 43 Resp: 1743
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.231 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

Tgt Ion: 84 Resp: 5058
Ion Ratio Lower Upper
84 100
49 119.3 99.3 148.9
51 50.0 30.1 45.1#
86 68.5 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.05 min Scan# 1018

Delta R.T. 0.04 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

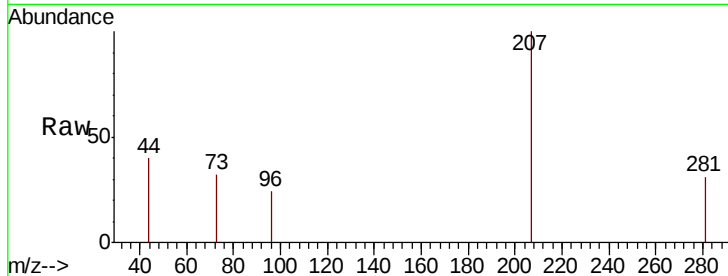
Tot Ion: 96 Resp: 59

Ion Ratio Lower Upper

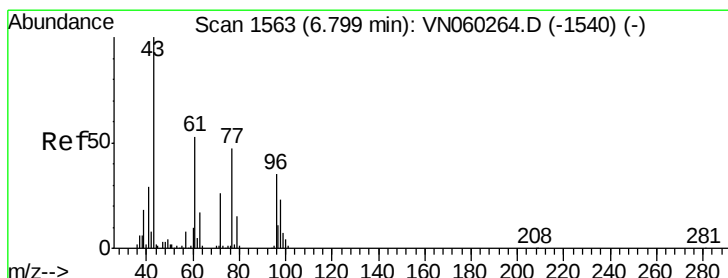
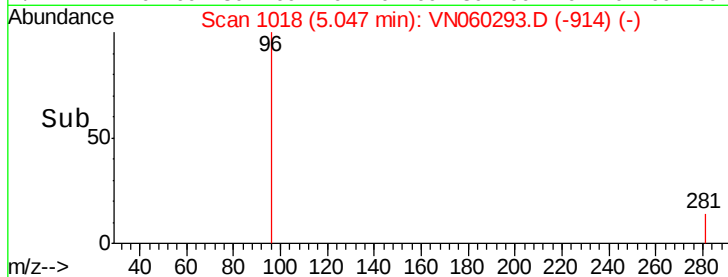
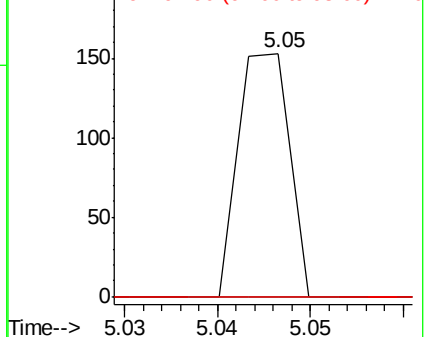
96 100

61 0.0 113.8 170.8#

98 0.0 48.8 73.2#



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#25

2-Butanone

Concen: 1.266 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060293.D

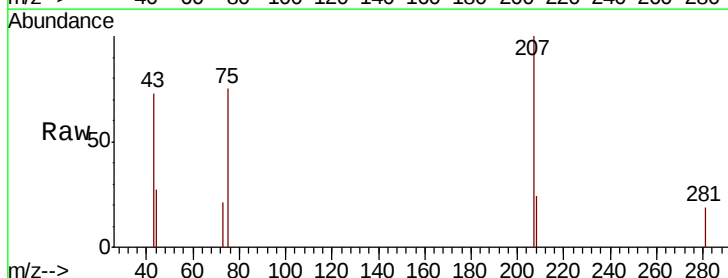
Acq: 28 Feb 2020 18:28

Tgt Ion: 43 Resp: 1688

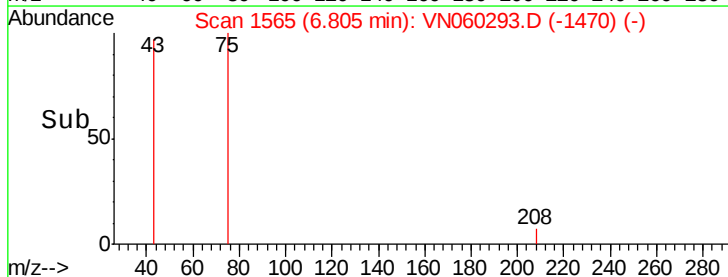
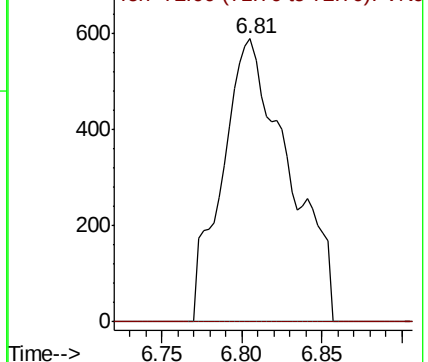
Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

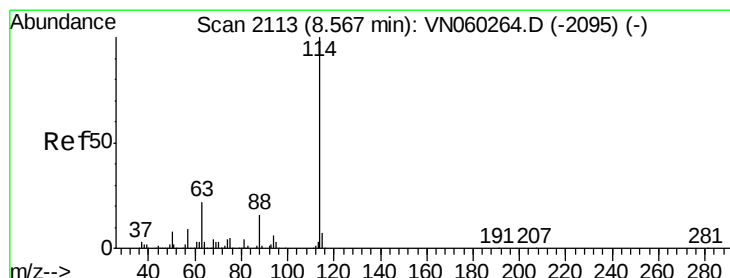
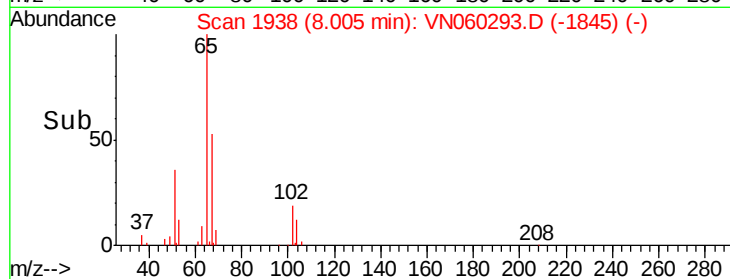
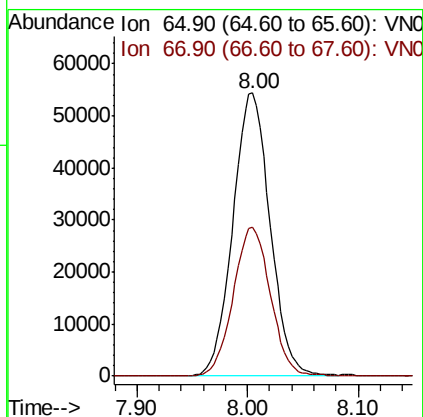
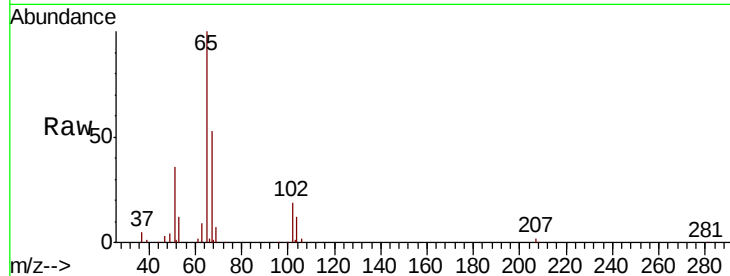




#33
 1,2-Dichloroethane-d4
 Concen: 49.738 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060293.D
 Acq: 28 Feb 2020 18:28

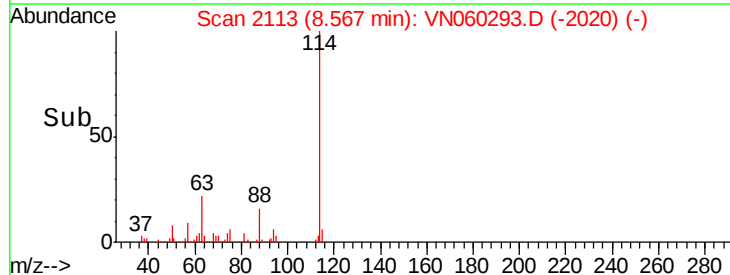
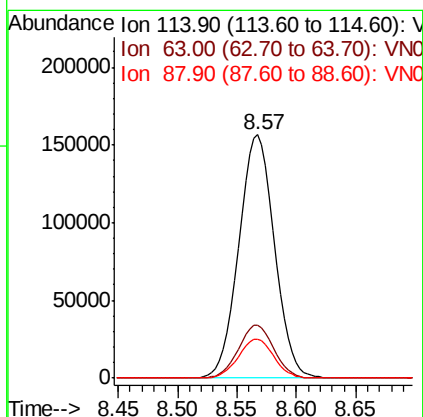
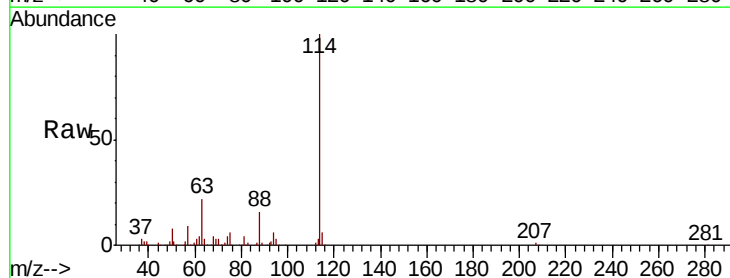
Instrument :
 MSVOA_N
 ClientSampleId :

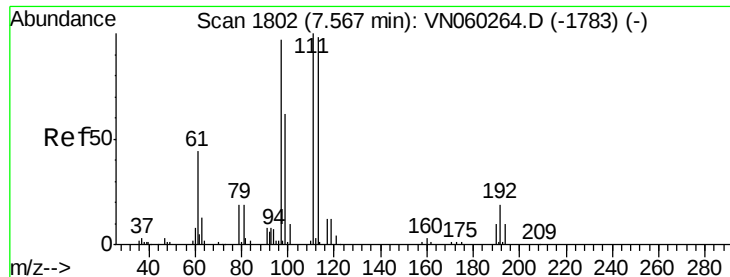
Tot Ion: 65 Resp: 127153
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060293.D
 Acq: 28 Feb 2020 18:28

Tgt Ion: 114 Resp: 324954
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.2
 88 16.1 0.0 31.6

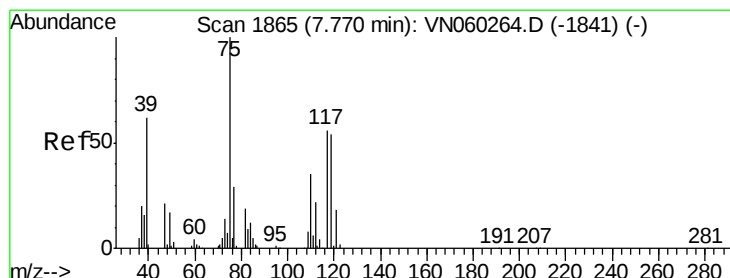
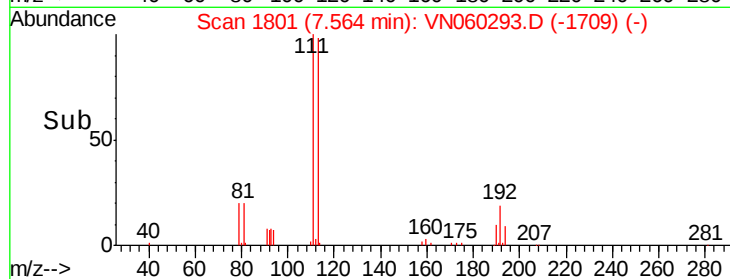
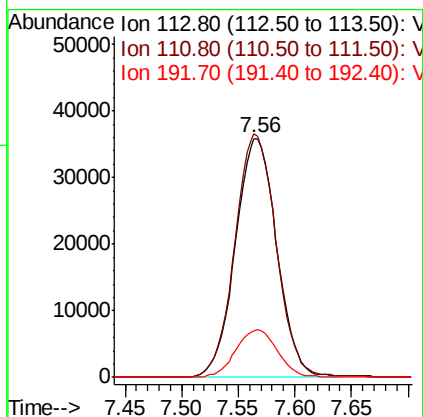
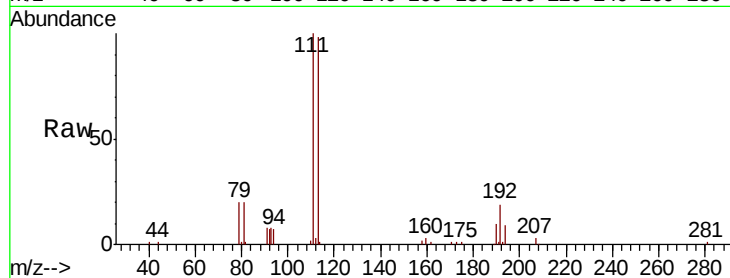




#35
 Dibromofluoromethane
 Concen: 60.537 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060293.D
 Acq: 28 Feb 2020 18:28

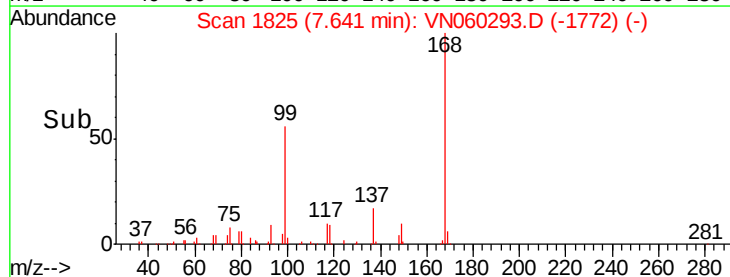
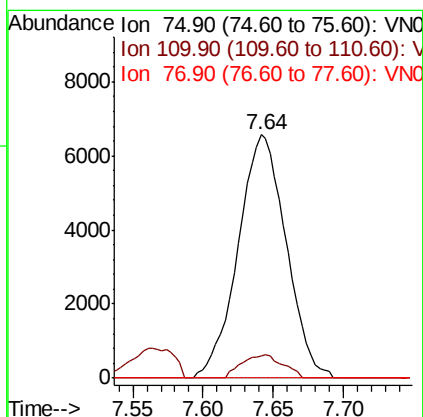
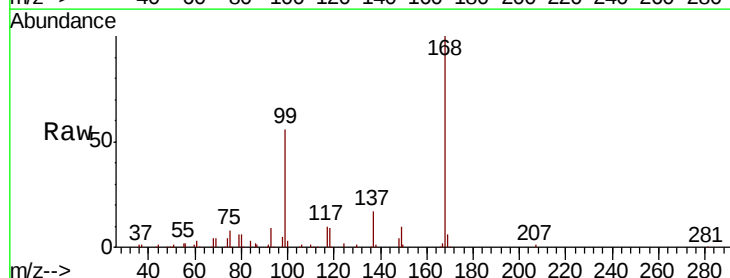
Instrument :
 MSVOA_N
 ClientSampleId :

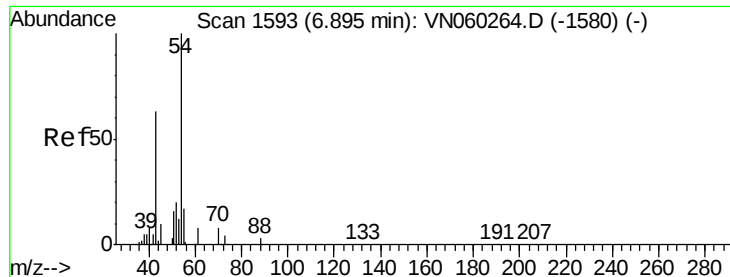
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.4	123.6
192	20.1	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.042 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060293.D
 Acq: 28 Feb 2020 18:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.3	52.0#
77	0.0	24.2	36.2#

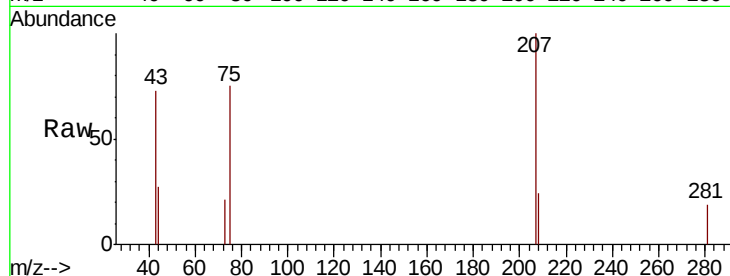




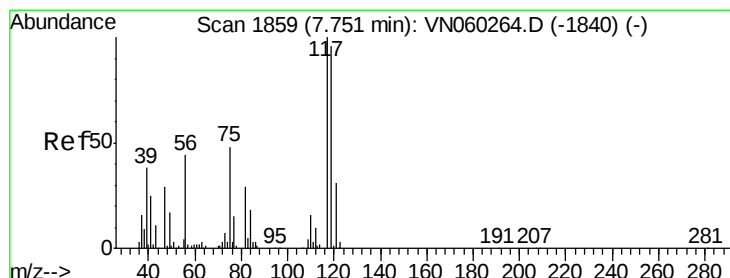
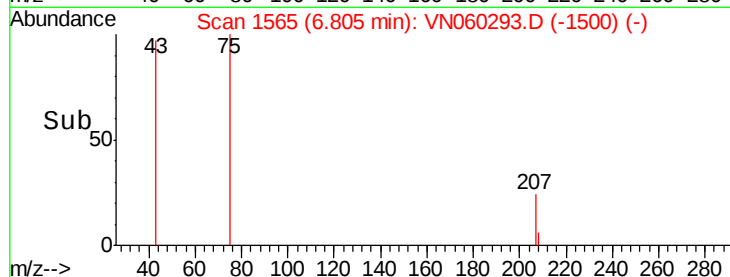
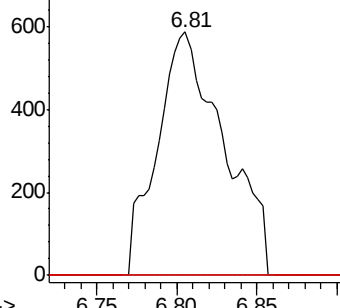
#37
Ethyl Acetate
Concen: 0.576 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1688
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

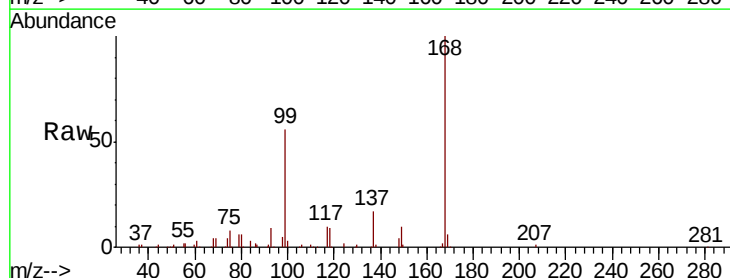


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

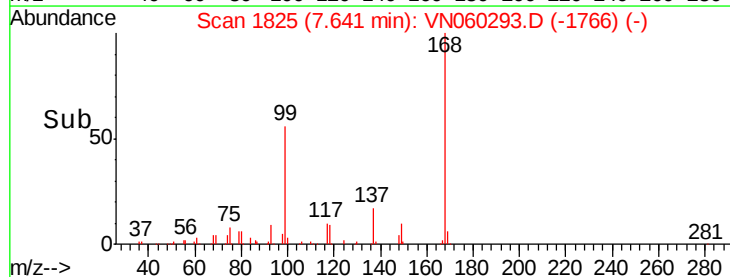
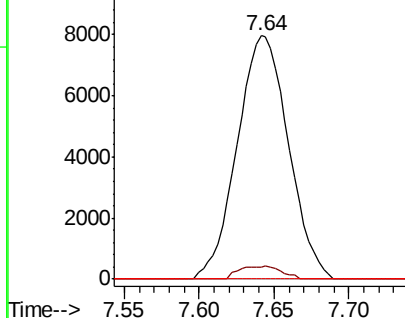


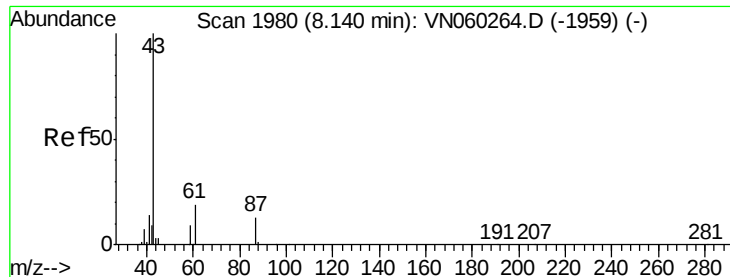
#38
Carbon Tetrachloride
Concen: 6.292 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

Tgt Ion: 117 Resp: 18973
Ion Ratio Lower Upper
117 100
119 5.1 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

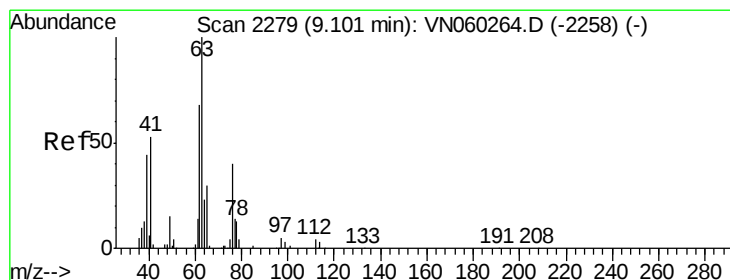
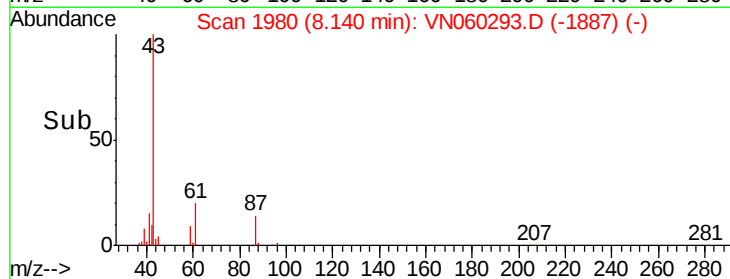
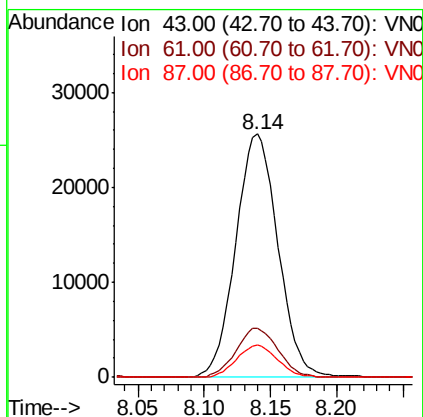
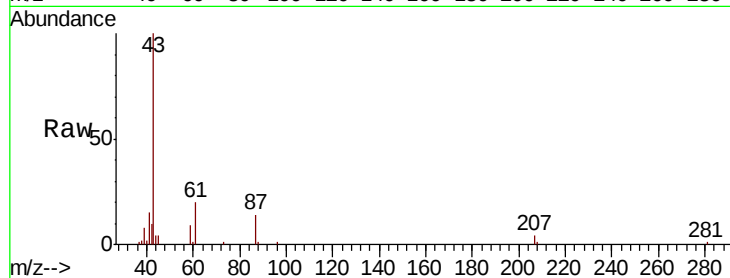




#43
Isopropyl Acetate
Concen: 11.047 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

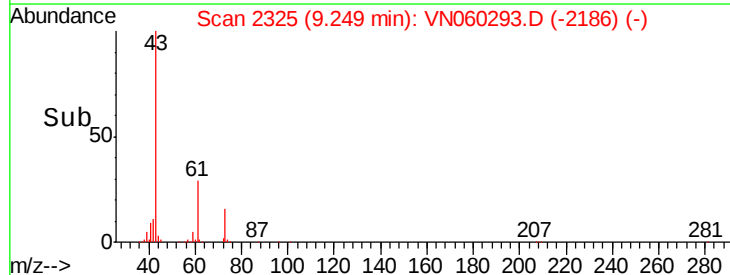
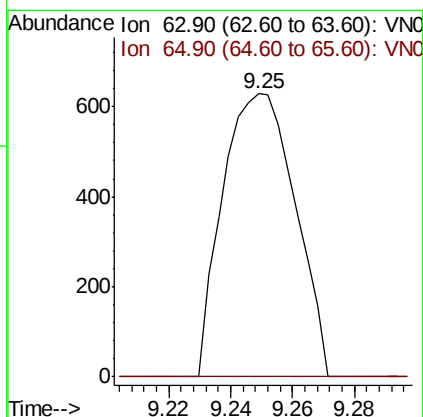
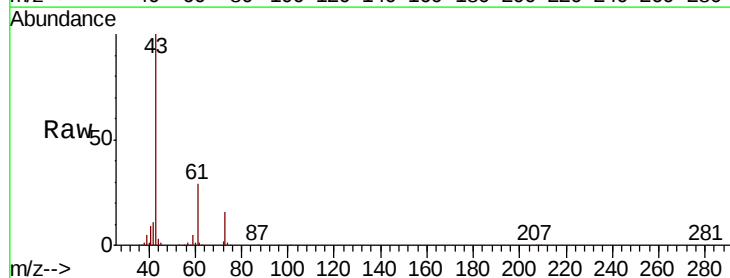
Instrument :
MSVOA_N
ClientSampleId :

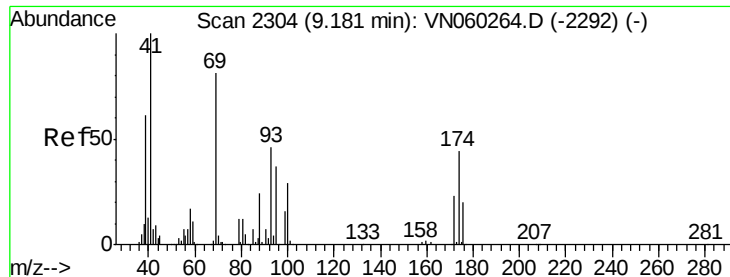
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.0	20.9	31.3#
87	12.8	10.6	16.0



#45
1,2-Dichloropropane
Concen: 0.432 ug/l
RT: 9.25 min Scan# 2325
Delta R.T. 0.15 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

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

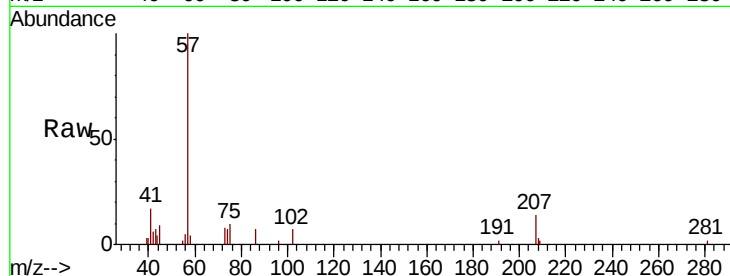




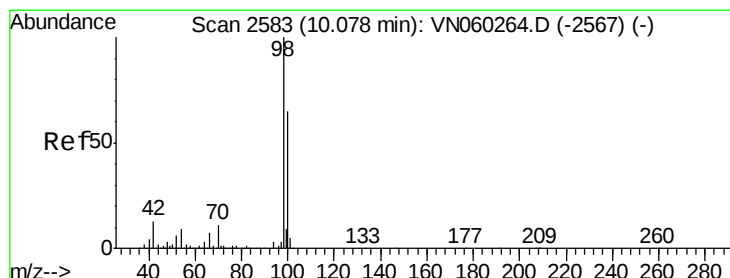
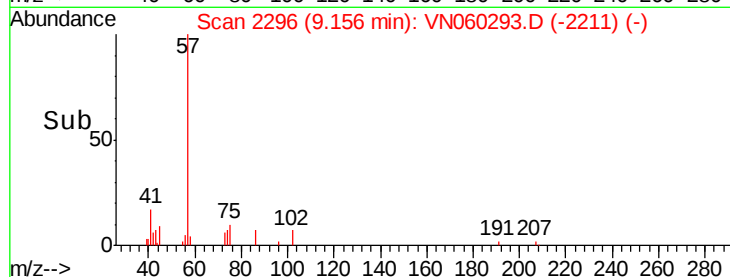
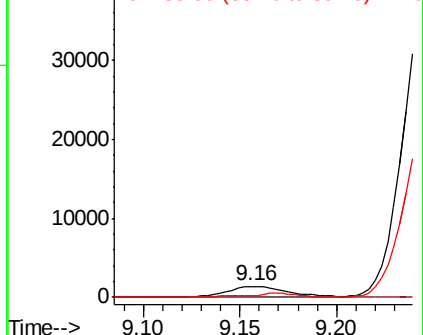
#48
Methvl methacrylate
Concen: 1.309 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3064
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

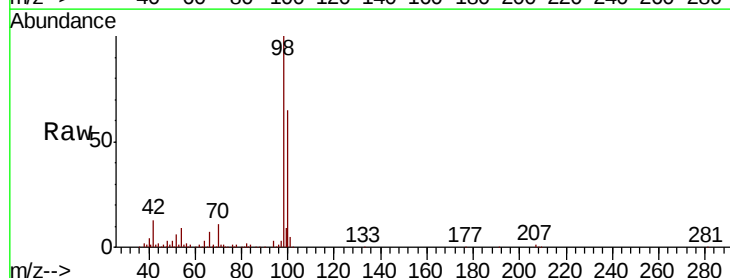


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

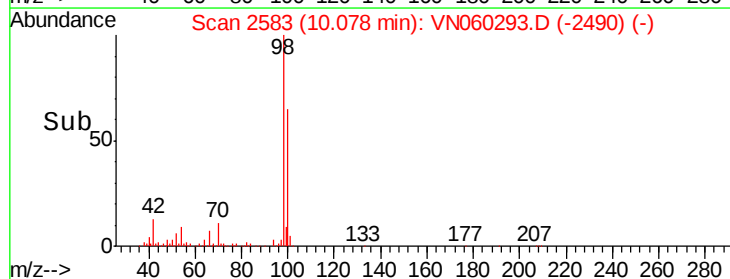
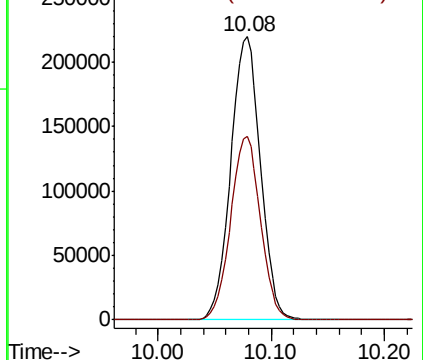


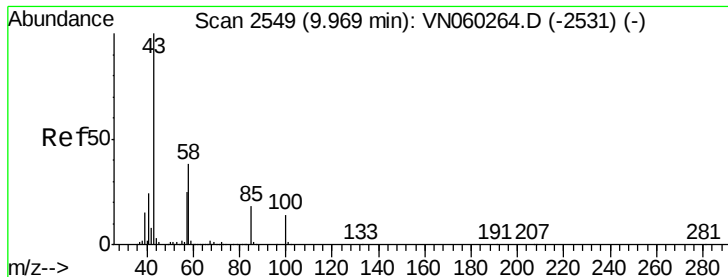
#50
Toluene-d8
Concen: 52.543 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060293.D
Acq: 28 Feb 2020 18:28

Tgt Ion: 98 Resp: 401104
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.773 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

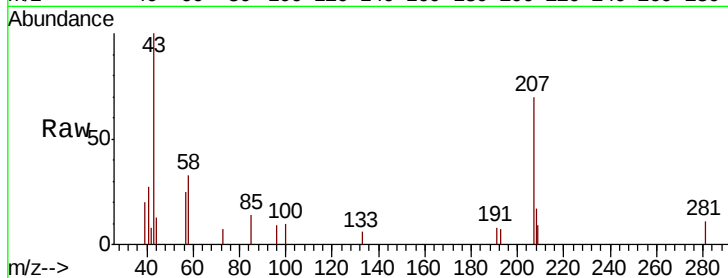
ClientSampled :

Tot Ion: 43 Resp: 5161

Ion Ratio Lower Upper

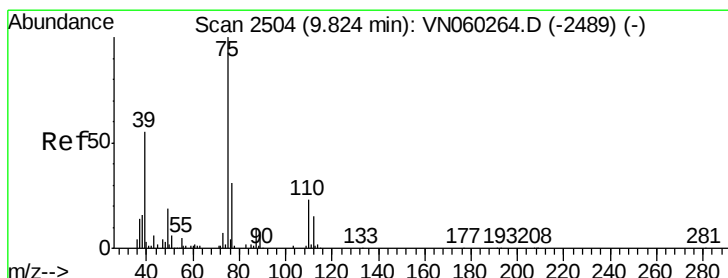
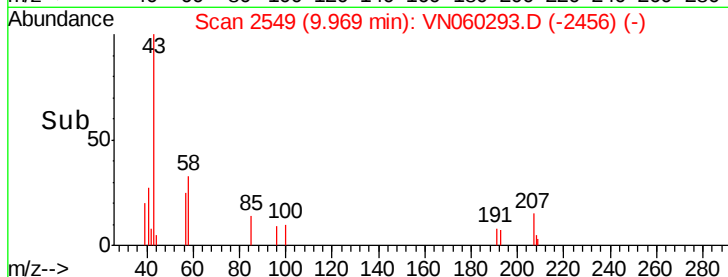
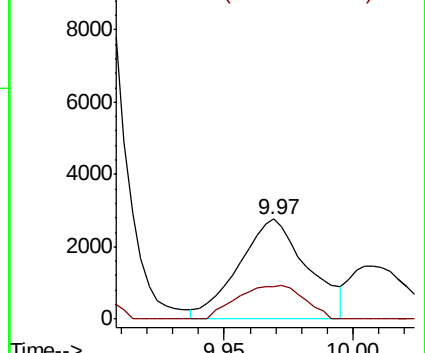
43 100

58 32.7 30.9 46.3



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

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.257 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

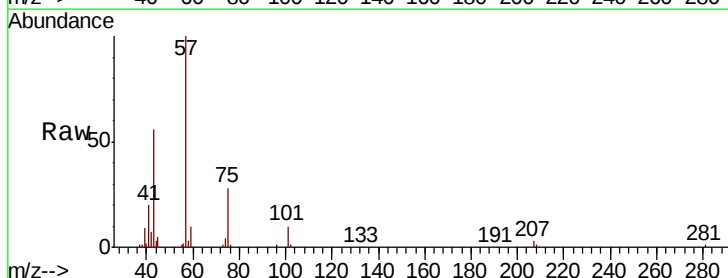
Tgt Ion: 75 Resp: 24710

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

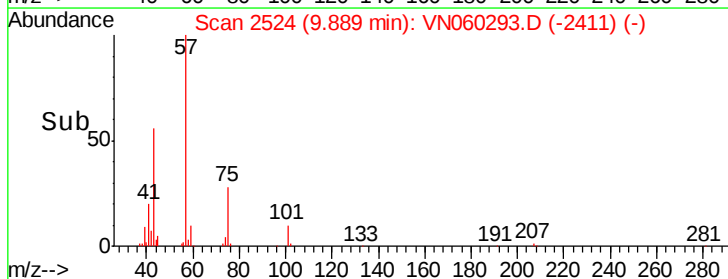
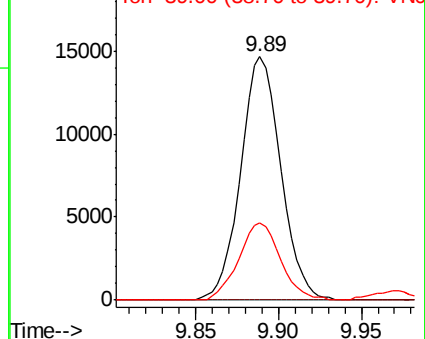
39 31.7 43.8 65.8#

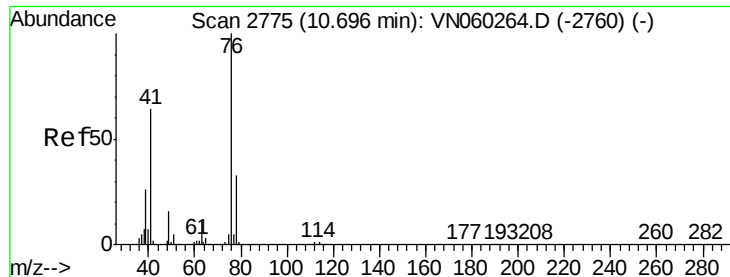


Abundance Ion 74.90 (74.60 to 75.60): VN060293.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060293.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060293.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.128 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

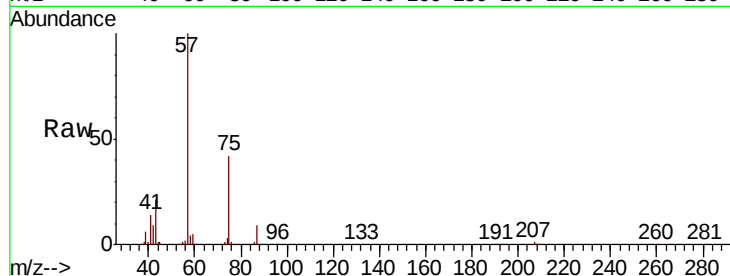
ClientSampled :

Tot Ion: 76 Resp: 4187

Ion Ratio Lower Upper

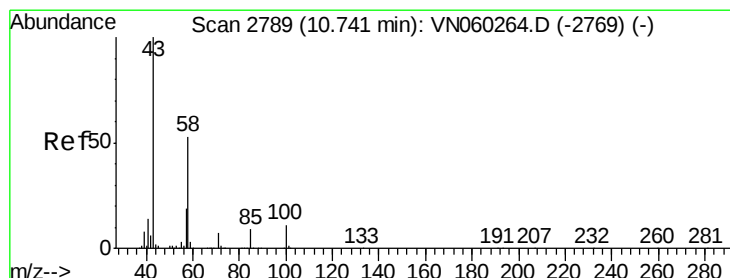
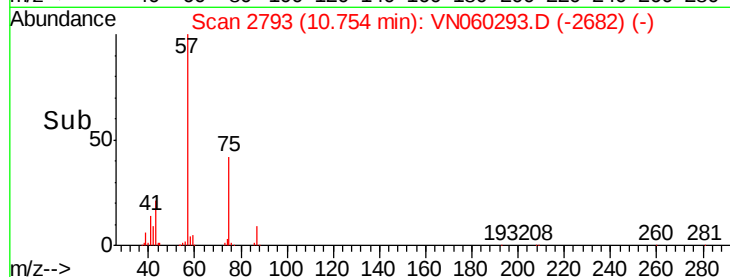
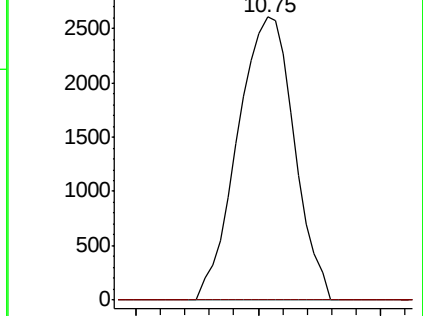
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 26.987 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060293.D

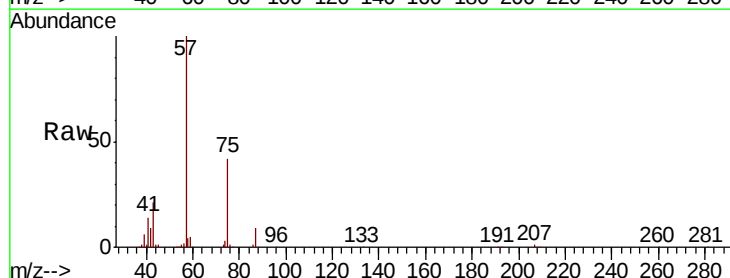
Acq: 28 Feb 2020 18:28

Tgt Ion: 43 Resp: 57675

Ion Ratio Lower Upper

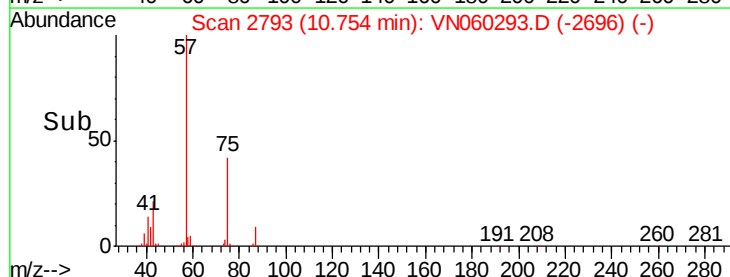
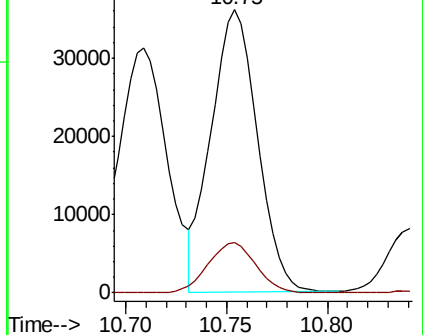
43 100

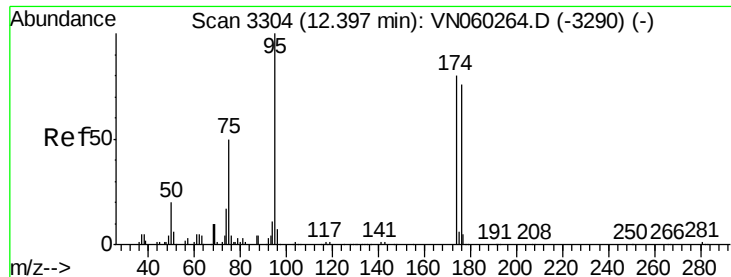
58 18.2 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.495 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

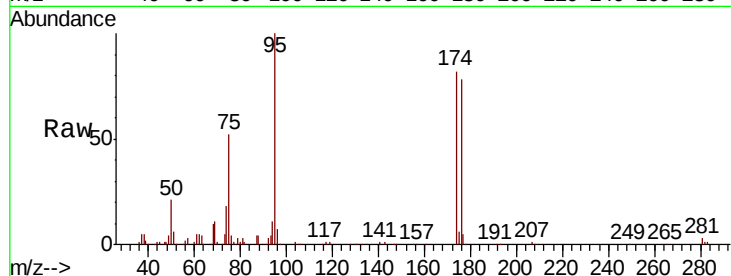
Tot Ion: 95 Resp: 149017

Ion Ratio Lower Upper

95 100

174 81.5 0.0 159.2

176 78.6 0.0 153.8



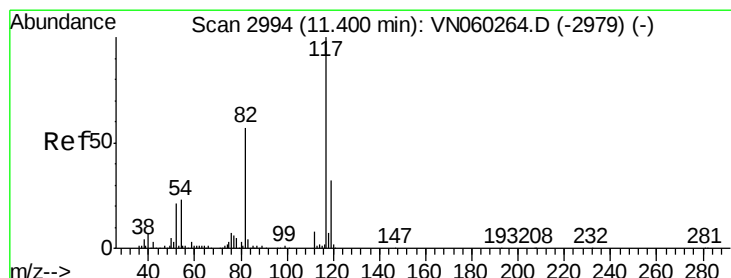
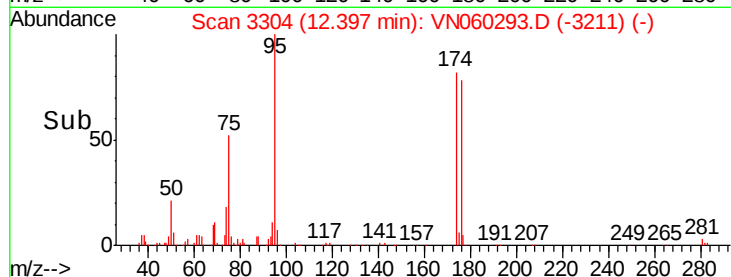
Abundance Ion 94.90 (94.60 to 95.60): VN060264.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060264.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060264.D (-3290) (-)

12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

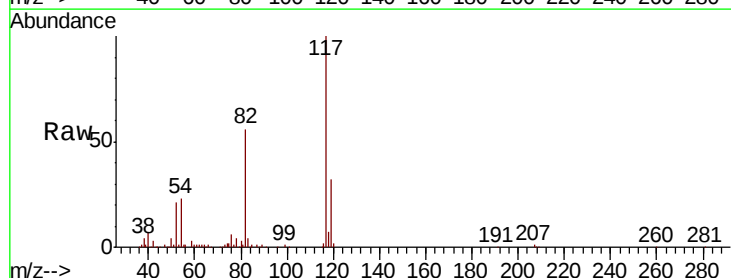
Tgt Ion: 117 Resp: 307697

Ion Ratio Lower Upper

117 100

82 56.1 45.8 68.6

119 32.2 25.8 38.8



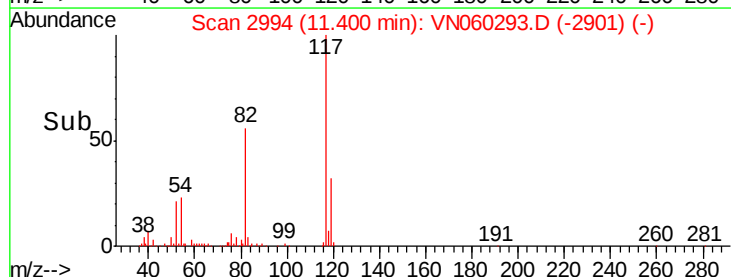
Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)

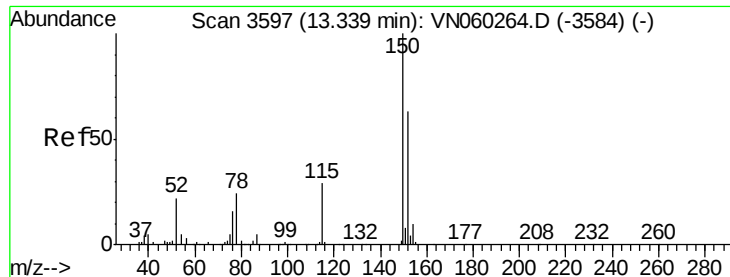
Ion 82.00 (81.70 to 82.70): VN060264.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060264.D (-2979) (-)

11.40

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

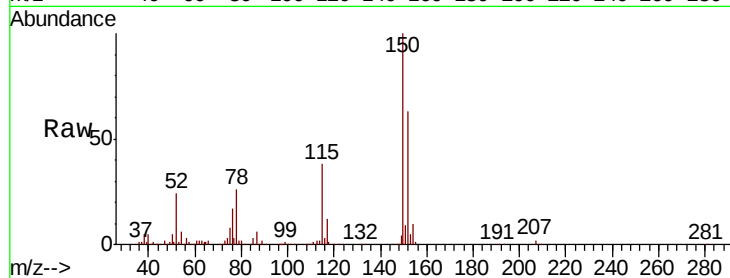
Tot Ion:152 Resp: 145348

Ion Ratio Lower Upper

152 100

115 60.1 30.0 90.0

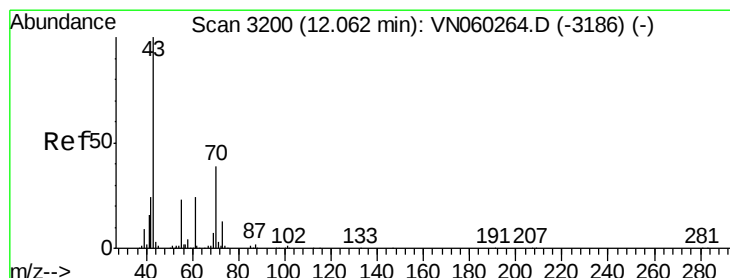
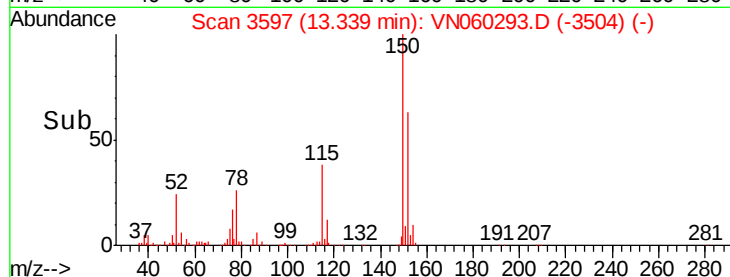
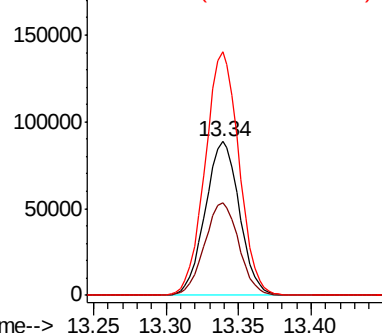
150 156.4 0.0 349.6



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: 0.855 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Tgt Ion: 43 Resp: 4023

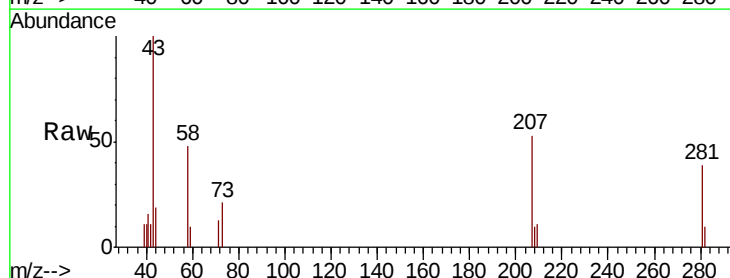
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

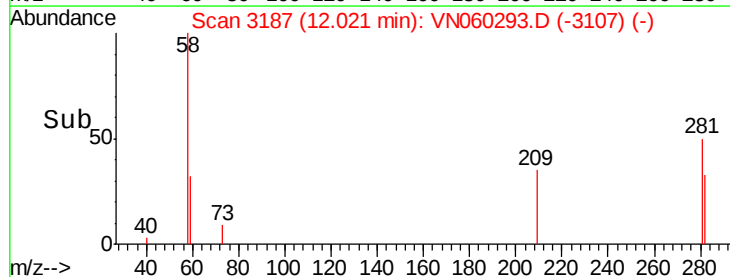
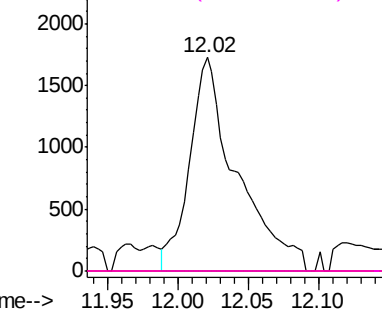


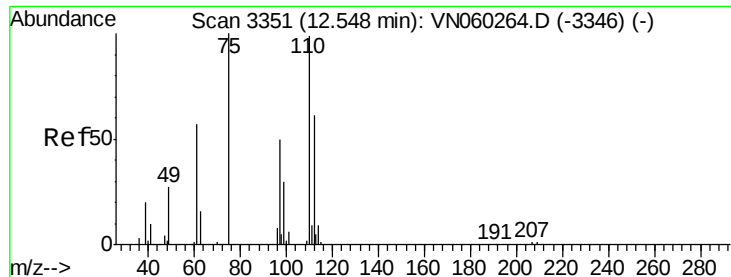
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.541 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

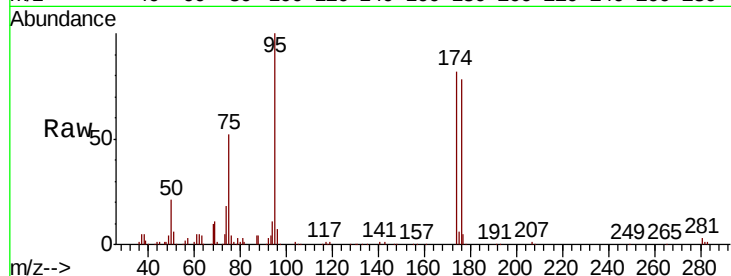
ClientSampled :

Tot Ion: 75 Resp: 78261

Ion Ratio Lower Upper

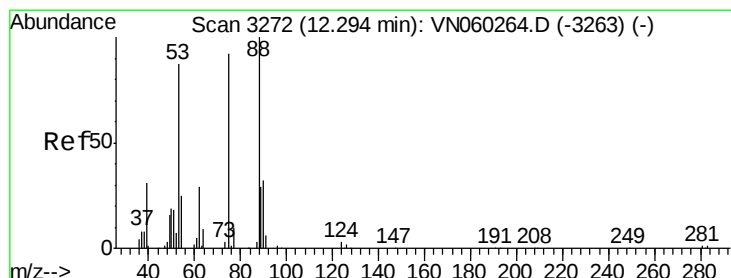
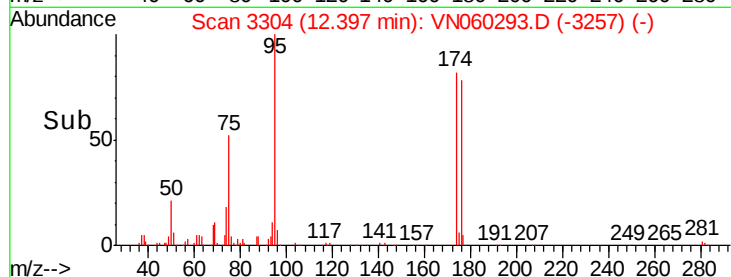
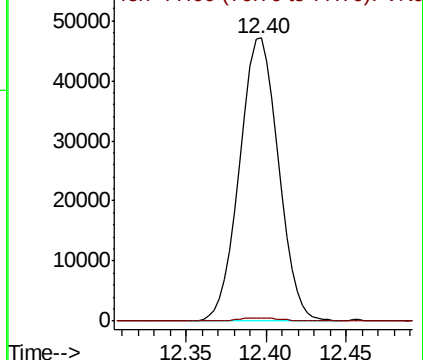
75 100

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: 67.746 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

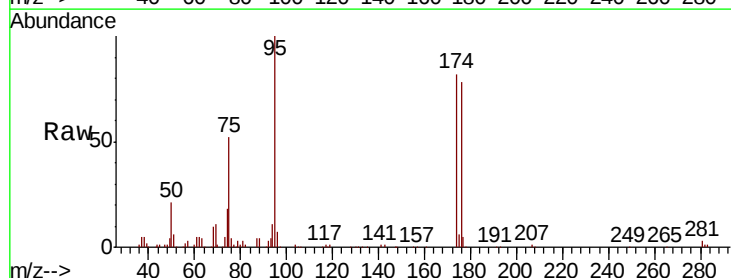
Tgt Ion: 75 Resp: 78261

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

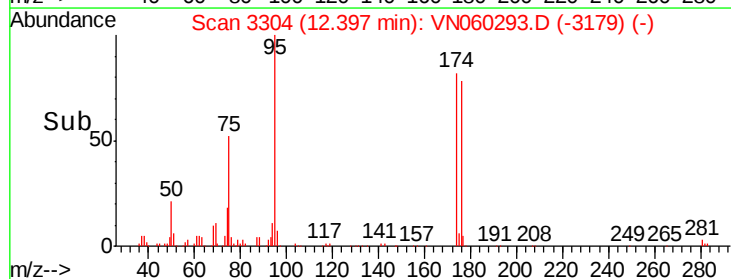
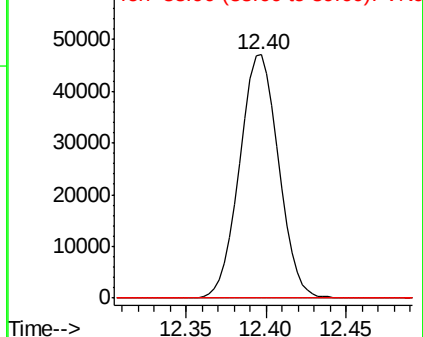
89 0.0 57.1 85.7#

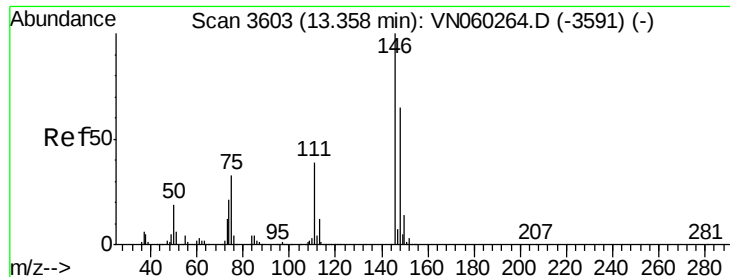


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

ClientSampled :

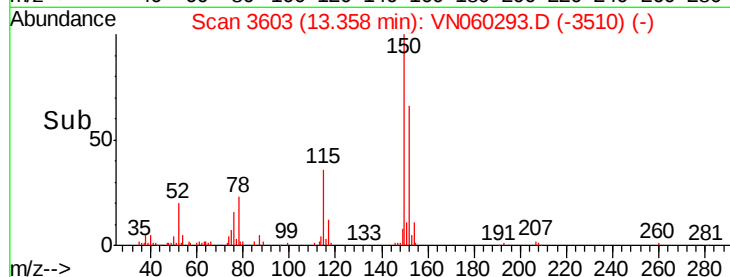
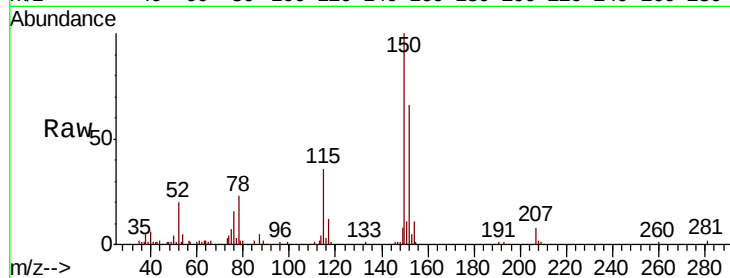
Tot Ion:146 Resp: 103

Ion Ratio Lower Upper

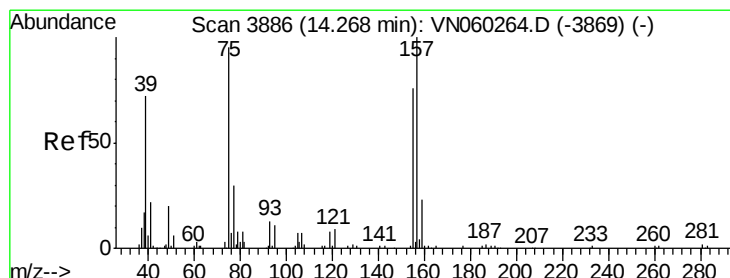
146 100

111 1920.4 19.8 59.4#

148 719.4 32.3 96.9#



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.237 ug/l

RT: 14.24 min Scan# 3876

Delta R.T. -0.03 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

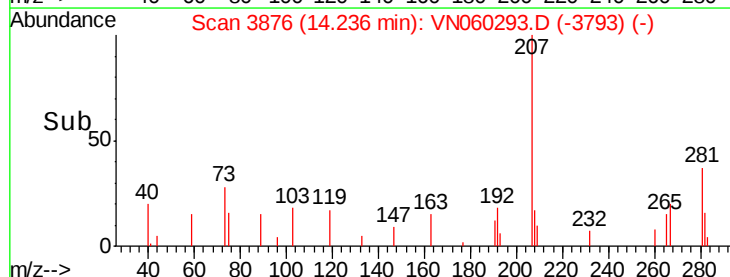
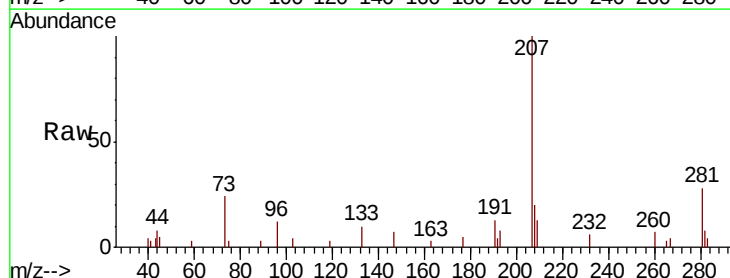
Tgt Ion: 75 Resp: 157

Ion Ratio Lower Upper

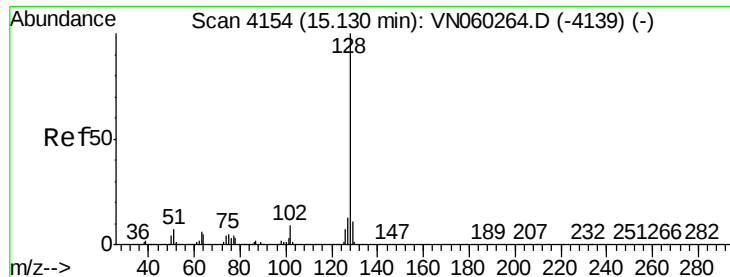
75 100

155 0.0 40.4 121.2#

157 0.0 52.5 157.5#



Time-->



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN060293.D

Acq: 28 Feb 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

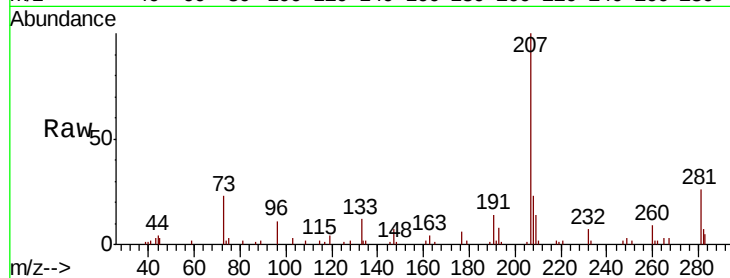
Tot Ion:128 Resp: 247

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

