

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059789.D
 Acq On : 20 Jan 2020 16:07
 Operator : JC/MD
 Sample : L1181-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:19:05 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	208355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	307698	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	267079	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111486	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	107774	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	
35) Dibromofluoromethane	7.57	113	93362	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
50) Toluene-d8	10.08	98	356299	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.40	95	118600	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	

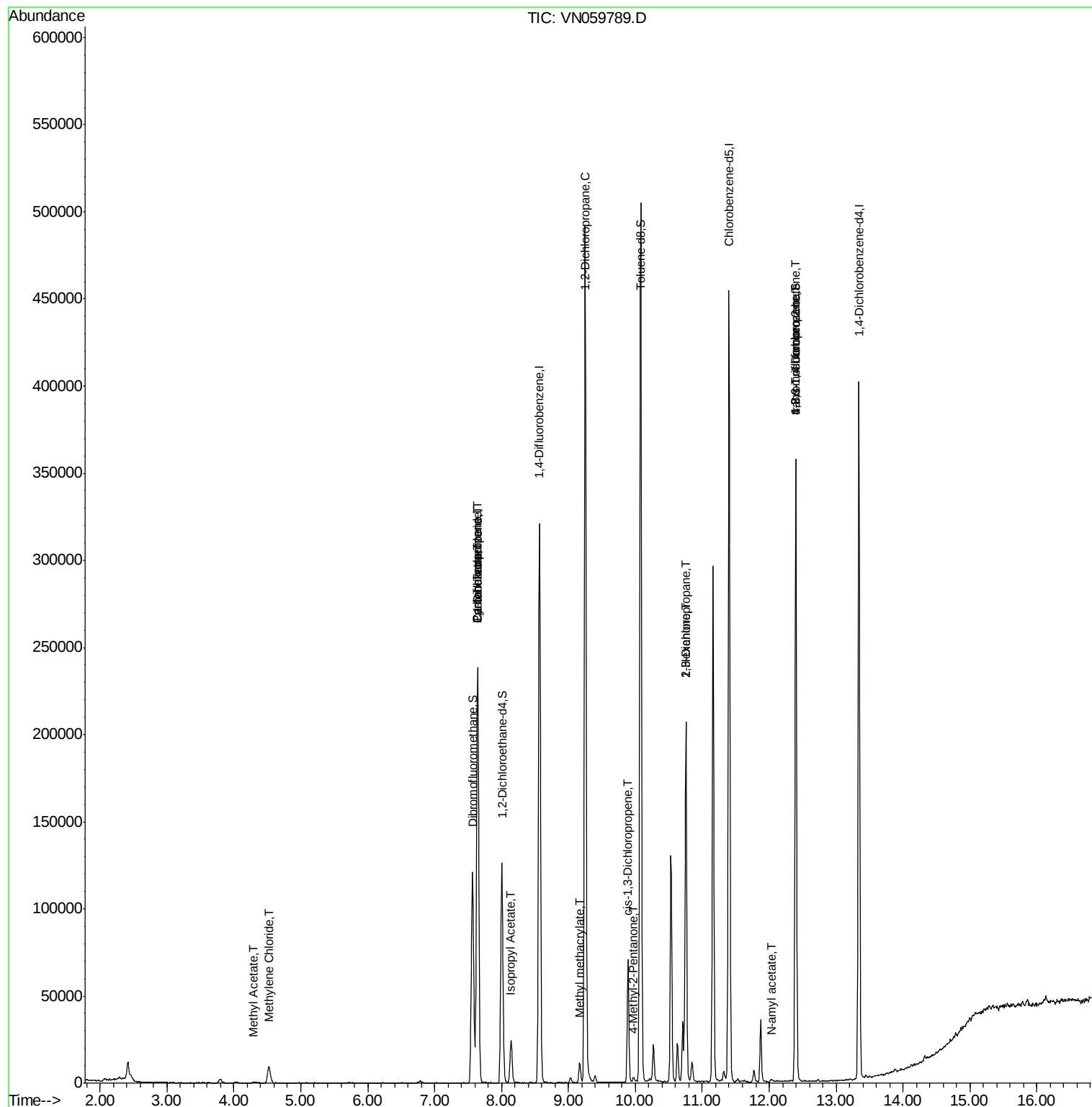
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4370	Below Cal		99
18) Methyl Acetate	4.30	43	947	0.350	ug/l #	54
20) Methylene Chloride	4.52	84	8111	2.649	ug/l #	82
31) Cyclohexane	7.65	56	3824	1.117	ug/l #	26
36) 1,1-Dichloropropene	7.64	75	13613	5.080	ug/l #	47
38) Carbon Tetrachloride	7.64	117	18779	6.443	ug/l #	16
43) Isopropyl Acetate	8.14	43	29354	6.791	ug/l	92
45) 1,2-Dichloropropane	9.25	63	516	0.261	ug/l #	44
48) Methyl methacrylate	9.17	41	1730	0.895	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	1430	0.572	ug/l #	83
54) cis-1,3-Dichloropropene	9.89	75	13851	4.194	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2189	0.690	ug/l #	42
59) 2-Hexanone	10.75	43	28400	15.427	ug/l #	54
74) N-amyl acetate	12.02	43	1507	0.475	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	59482	31.703	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	59482	68.083	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.30	75	62	Below Cal	#	6

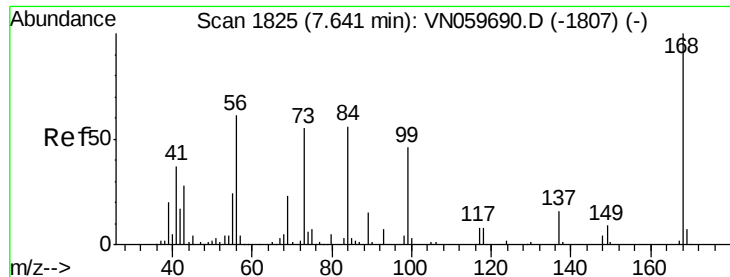
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

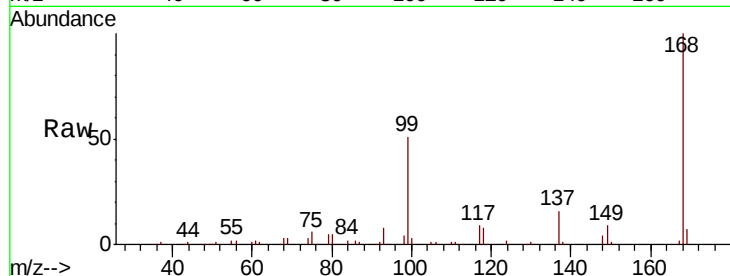
ClientSampleId :

Tot Ion:168 Resp: 208355

Ion Ratio Lower Upper

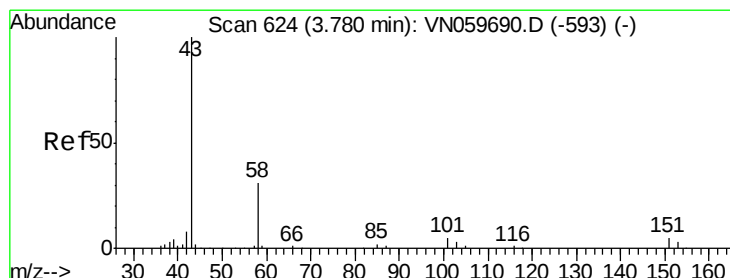
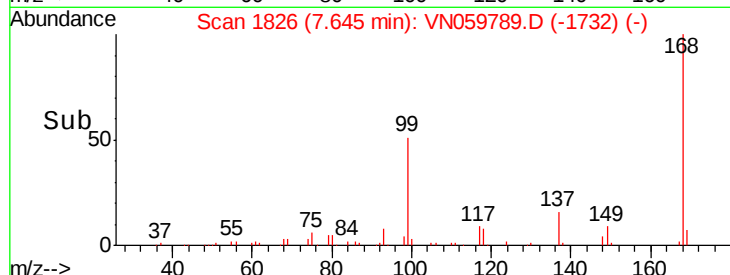
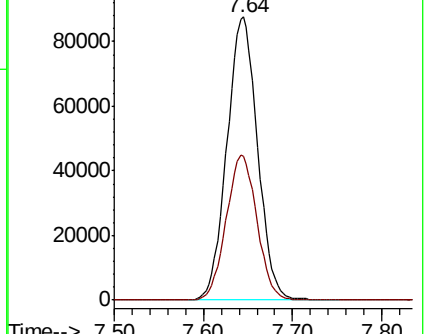
168 100

99 50.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059789.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059789.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059789.D

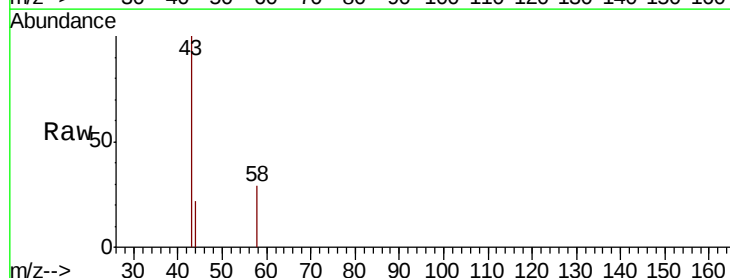
Acq: 20 Jan 2020 16:07

Tgt Ion: 43 Resp: 4370

Ion Ratio Lower Upper

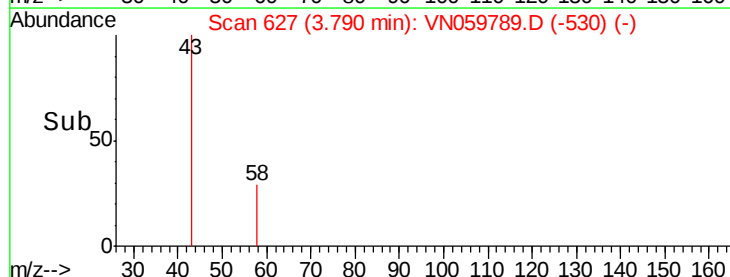
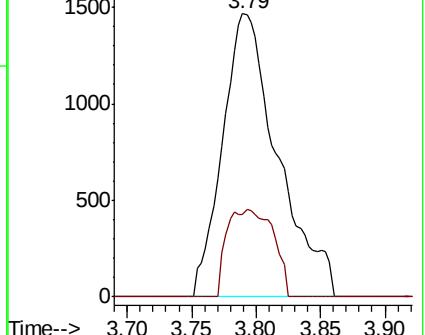
43 100

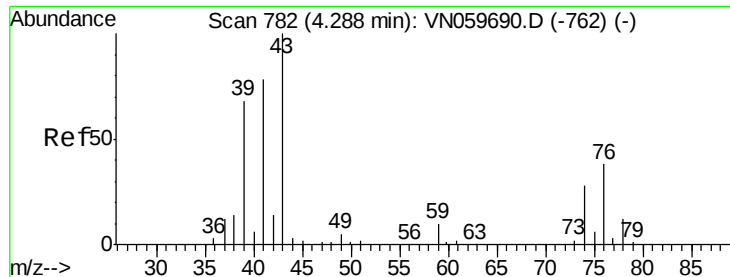
58 29.1 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059789.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059789.D (-530) (-)

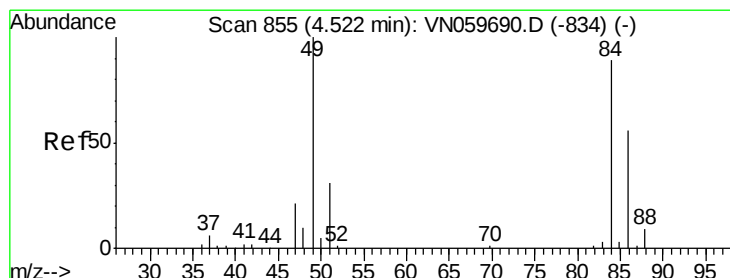
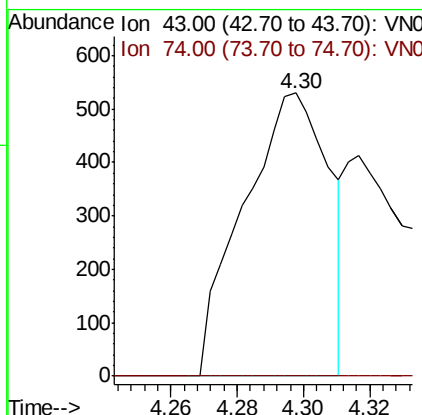
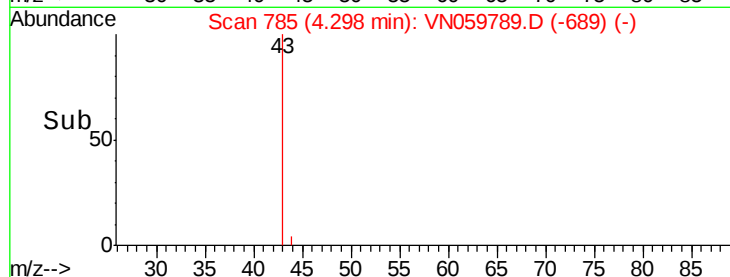
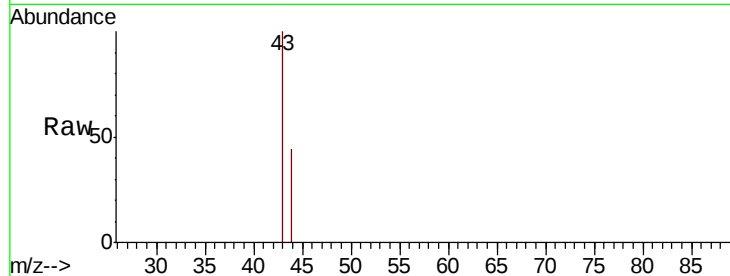




#18
Methyl Acetate
Concen: 0.350 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059789.D
Acq: 20 Jan 2020 16:07

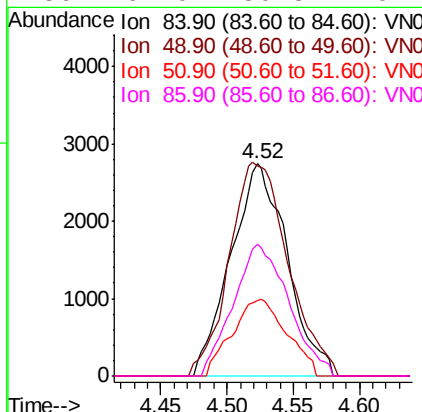
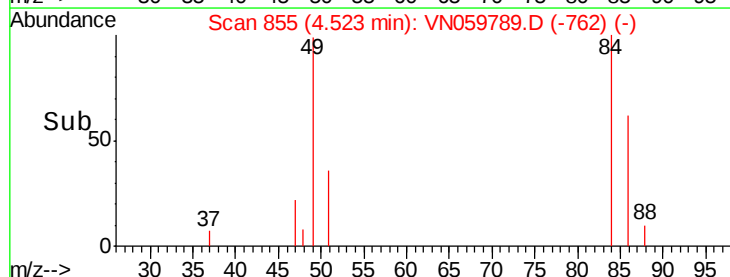
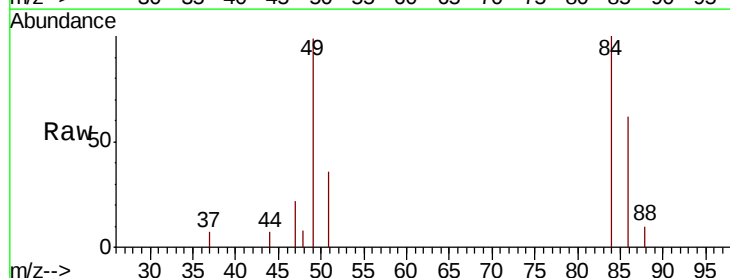
Instrument :
MSVOA_N
ClientSampled :

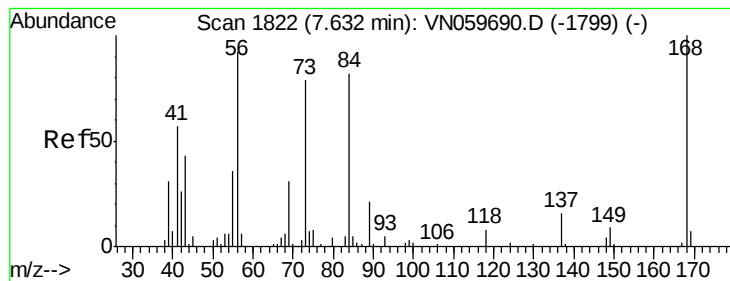
Tot Ion: 43 Resp: 947
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.649 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059789.D
Acq: 20 Jan 2020 16:07

Tgt Ion: 84 Resp: 8111
Ion Ratio Lower Upper
84 100
49 99.2 106.6 160.0#
51 35.5 31.9 47.9
86 62.0 50.8 76.2





#31

Cyclohexane

Concen: 1.117 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

ClientSampled :

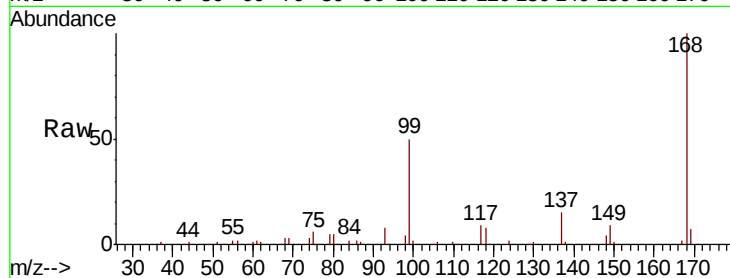
Tot Ion: 56 Resp: 3824

Ion Ratio Lower Upper

56 100

69 135.4 26.5 39.7#

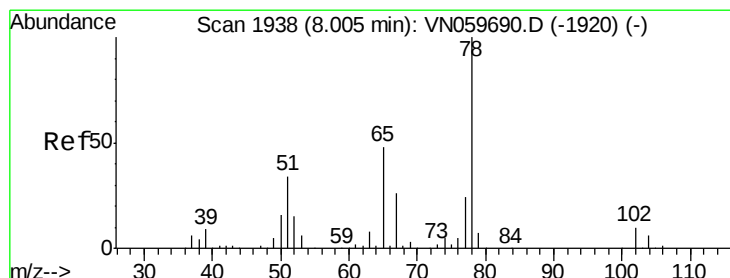
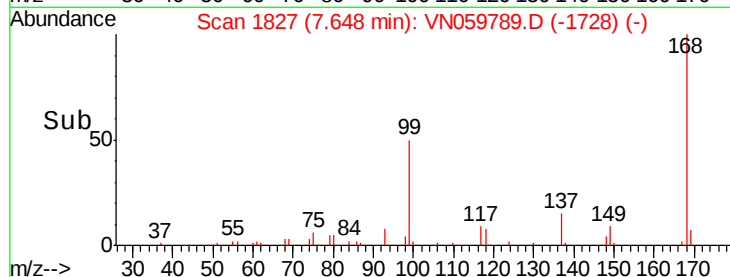
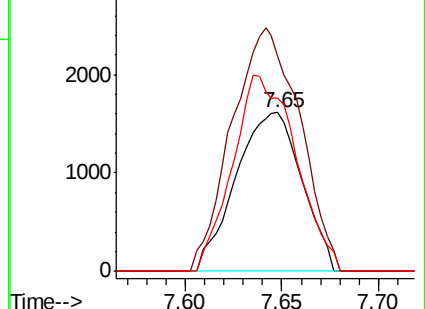
84 109.0 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059690.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059690.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059690.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.578 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059789.D

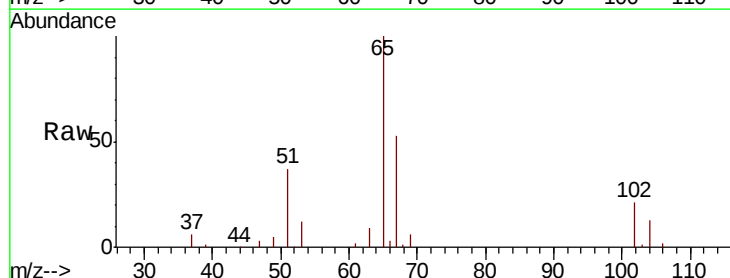
Acq: 20 Jan 2020 16:07

Tgt Ion: 65 Resp: 107774

Ion Ratio Lower Upper

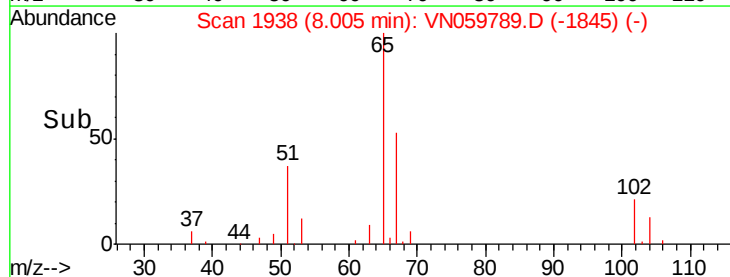
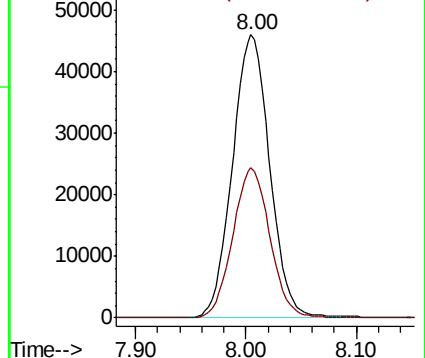
65 100

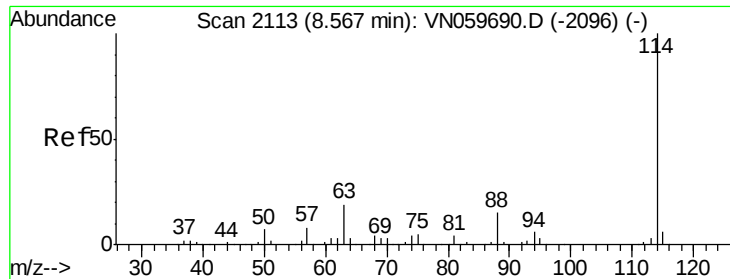
67 52.7 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059690.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059690.D (-1920) (-)

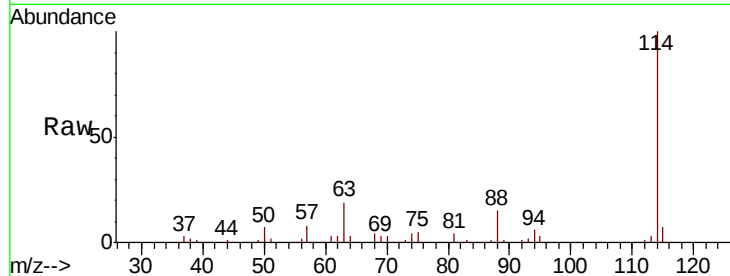




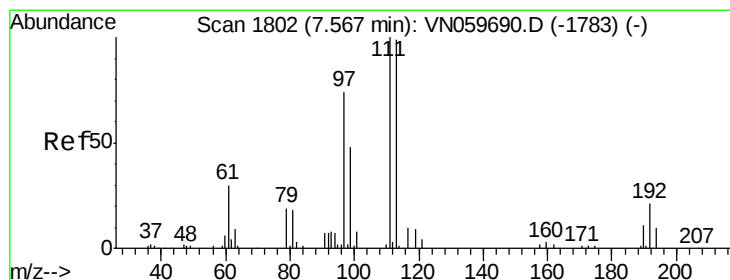
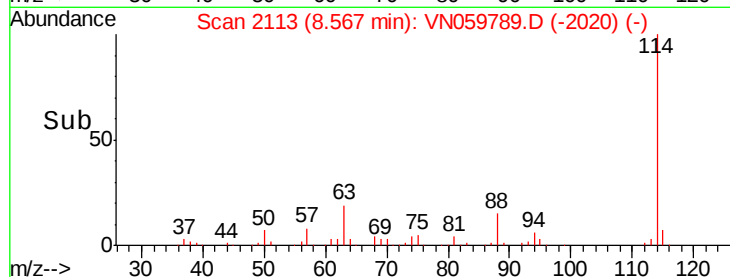
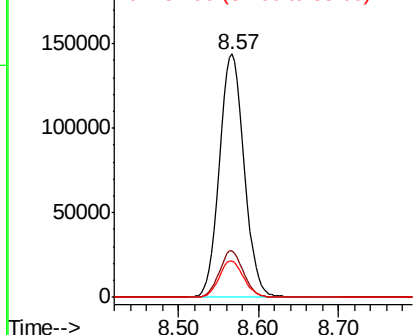
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059789.D
 Acq: 20 Jan 2020 16:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 307698
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 43.6
 88 15.0 0.0 31.4

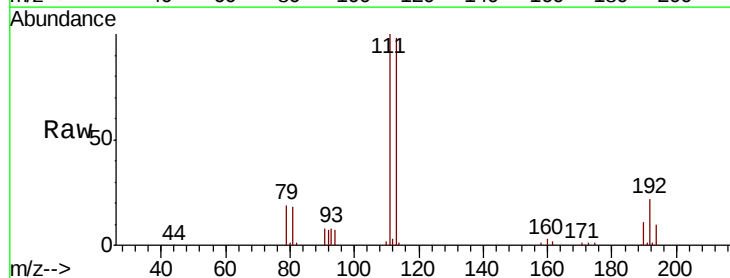


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

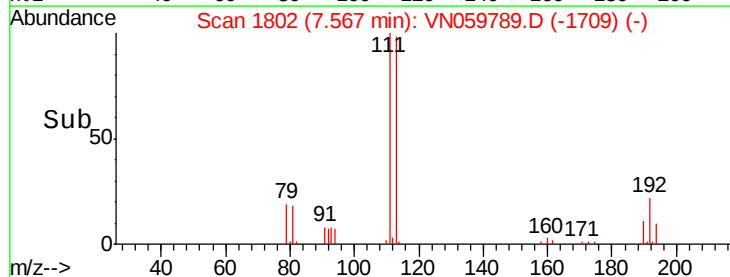
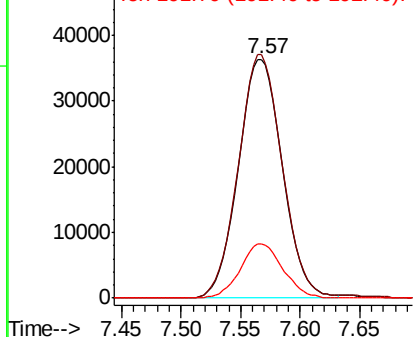


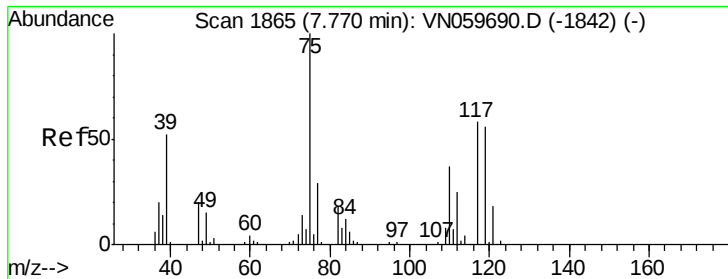
#35
 Dibromofluoromethane
 Concen: 50.880 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059789.D
 Acq: 20 Jan 2020 16:07

Tgt Ion:113 Resp: 93362
 Ion Ratio Lower Upper
 113 100
 111 101.3 83.5 125.3
 192 21.8 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: 5.080 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :
MSVOA_N
ClientSampleId :

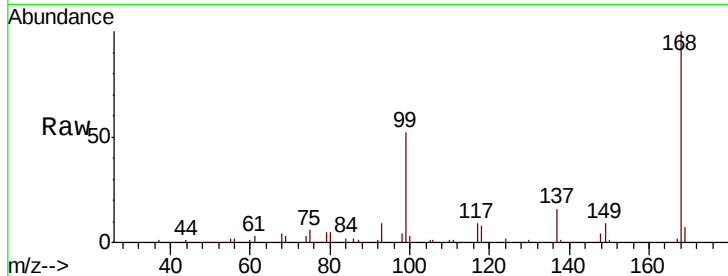
Tot Ion: 75 Resp: 13613

Ion Ratio Lower Upper

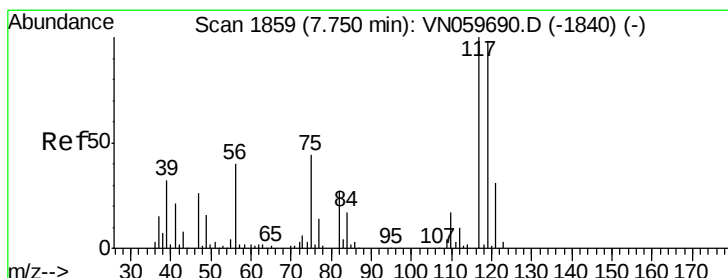
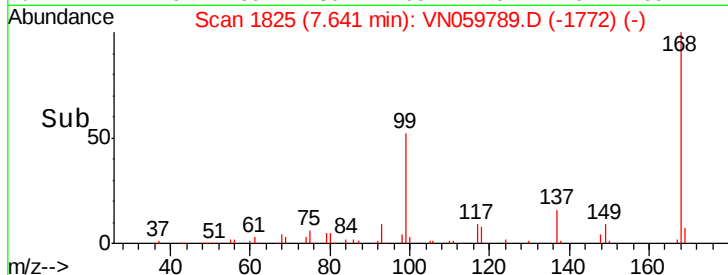
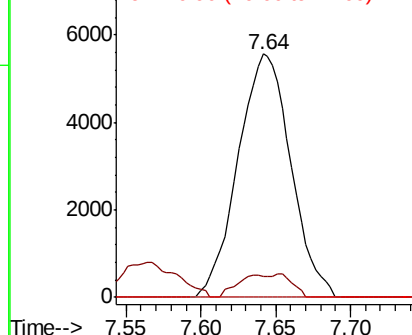
75 100

110 5.5 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: 6.443 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

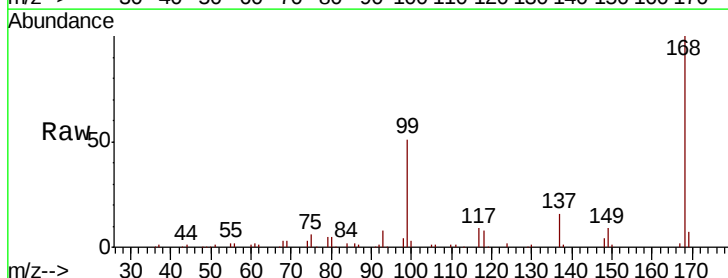
Tgt Ion: 117 Resp: 18779

Ion Ratio Lower Upper

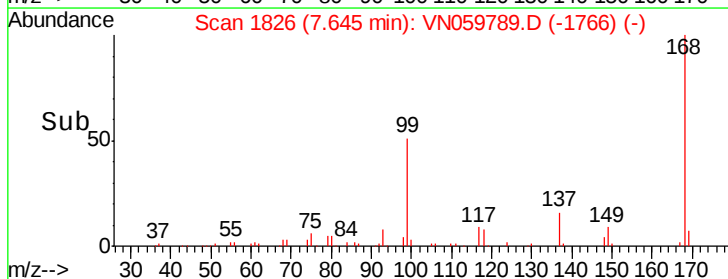
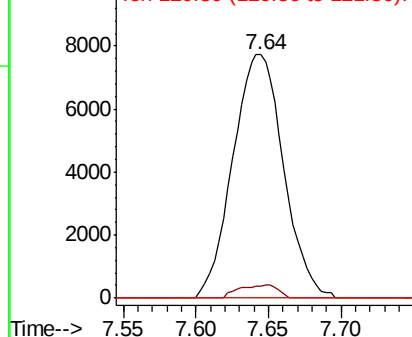
117 100

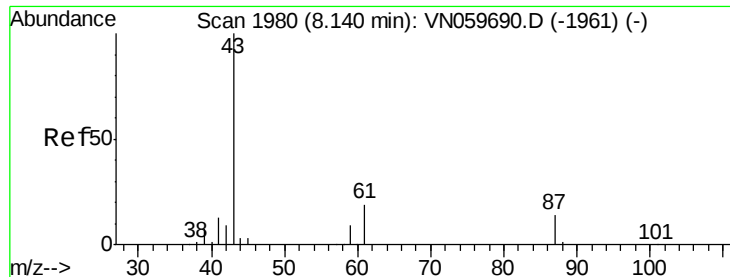
119 5.1 76.5 114.7#

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: 6.791 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

ClientSampleId :

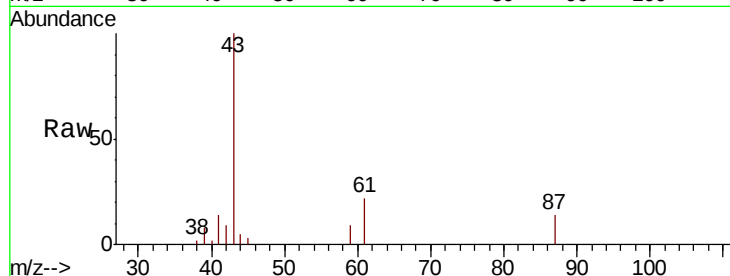
Tot Ion: 43 Resp: 29354

Ion Ratio Lower Upper

43 100

61 20.6 20.2 30.2

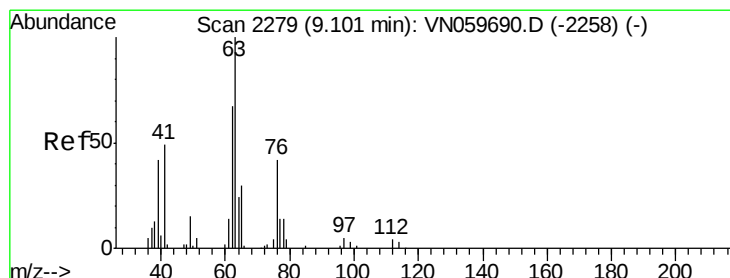
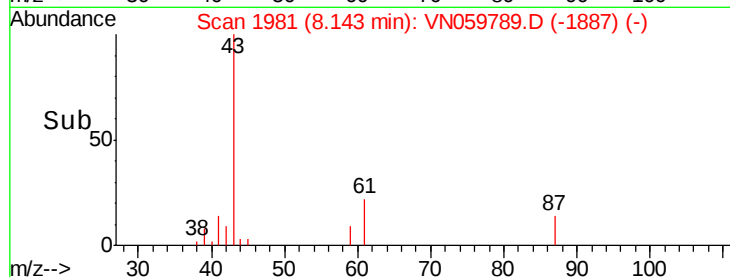
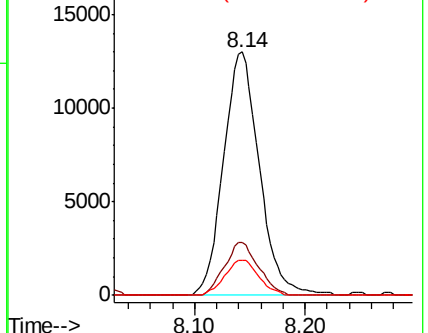
87 13.6 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN059789.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059789.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059789.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.261 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059789.D

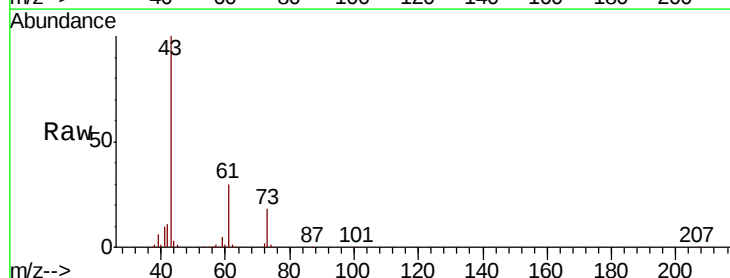
Acq: 20 Jan 2020 16:07

Tgt Ion: 63 Resp: 516

Ion Ratio Lower Upper

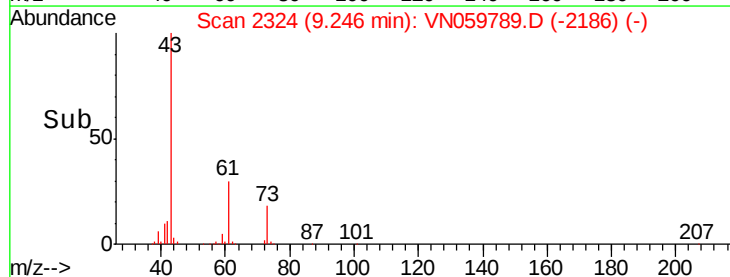
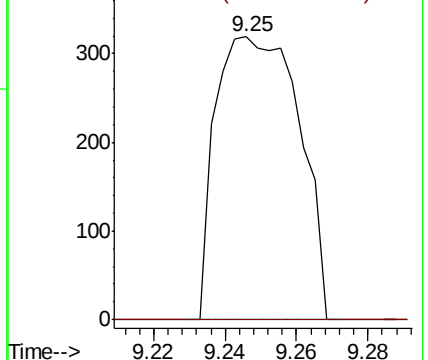
63 100

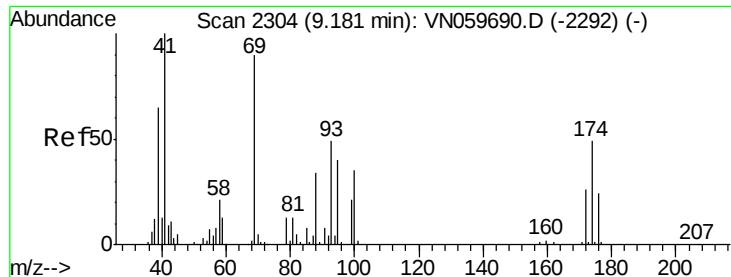
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059789.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059789.D (-2186) (-)

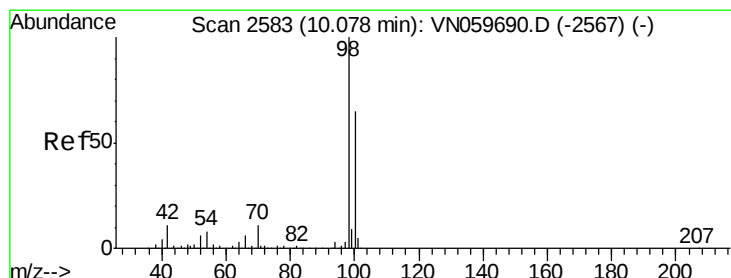
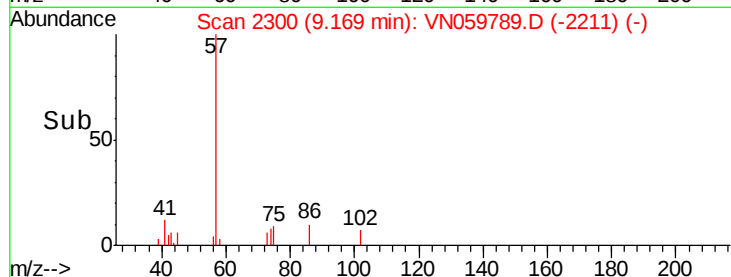
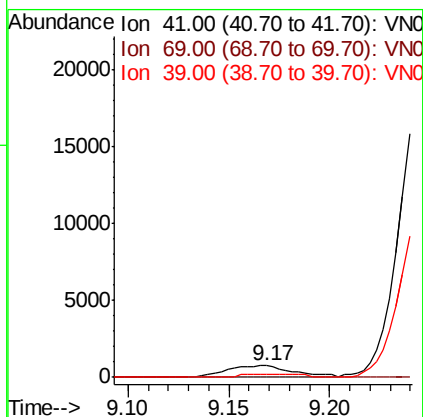
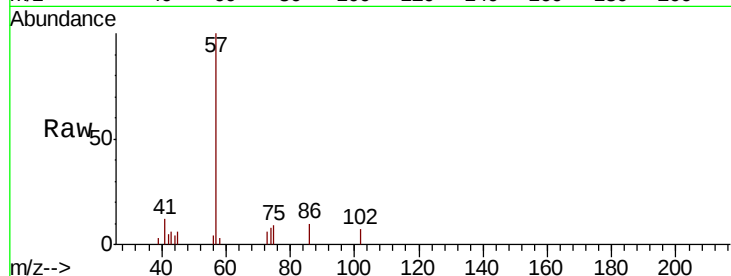




#48
Methvl methacrylate
Concen: 0.895 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.01 min
Lab File: VN059789.D
Acq: 20 Jan 2020 16:07

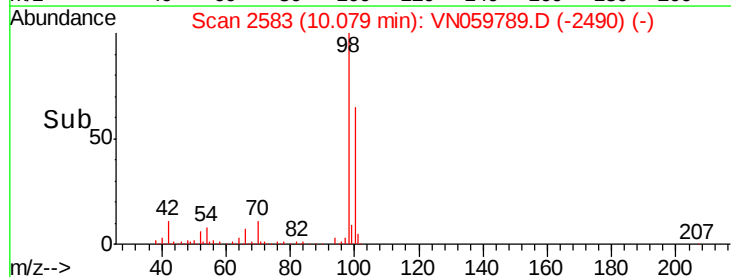
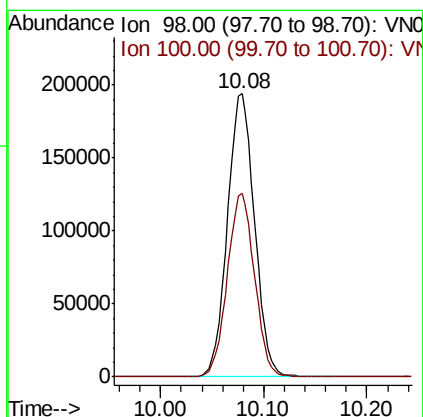
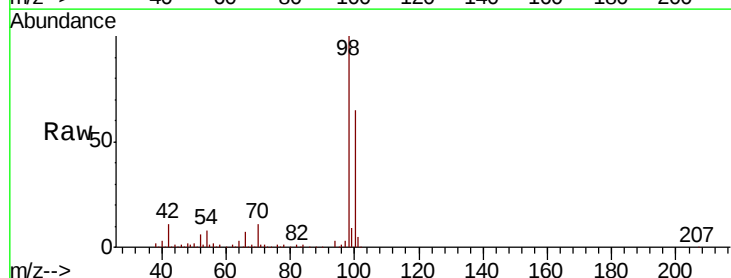
Instrument :
MSVOA_N
ClientSampleId :

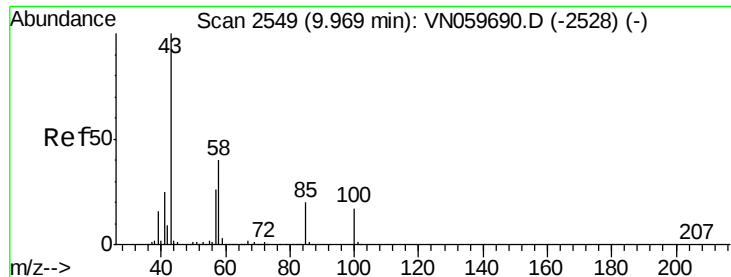
Tot Ion: 41 Resp: 1730
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.116 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059789.D
Acq: 20 Jan 2020 16:07

Tgt Ion: 98 Resp: 356299
Ion Ratio Lower Upper
98 100
100 64.9 51.2 76.8

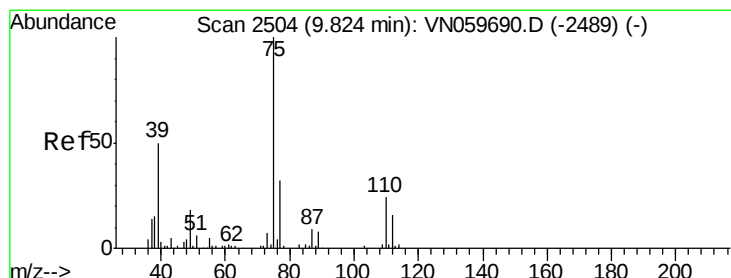
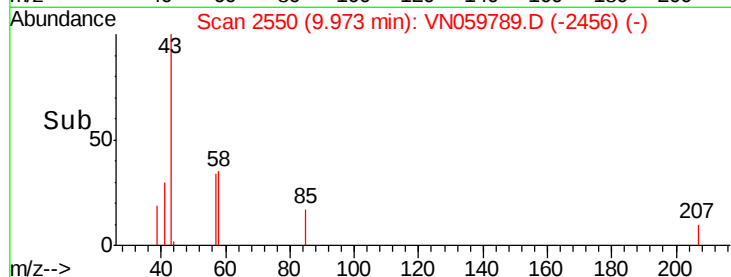
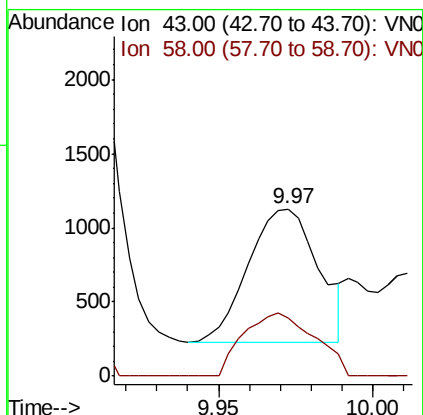
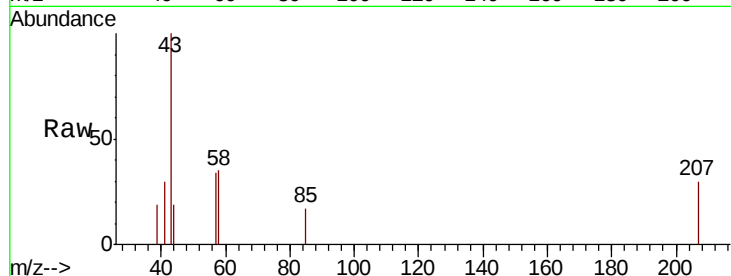




#51
4-Methyl-2-Pentanone
Concen: 0.572 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN059789.D
Acq: 20 Jan 2020 16:07

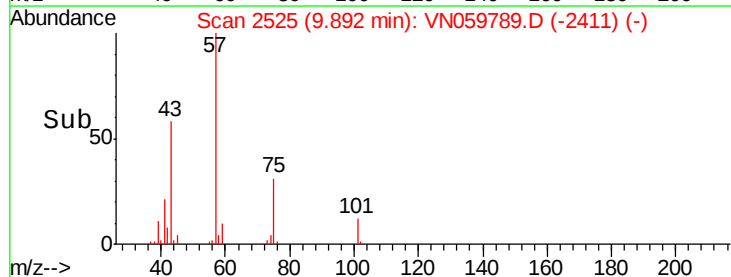
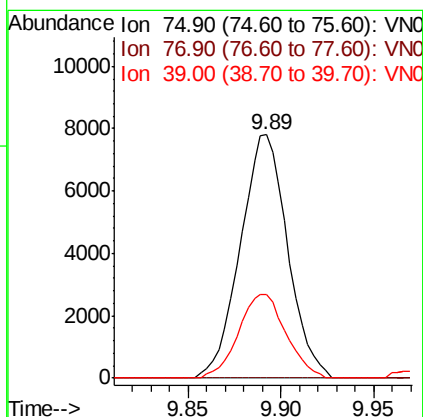
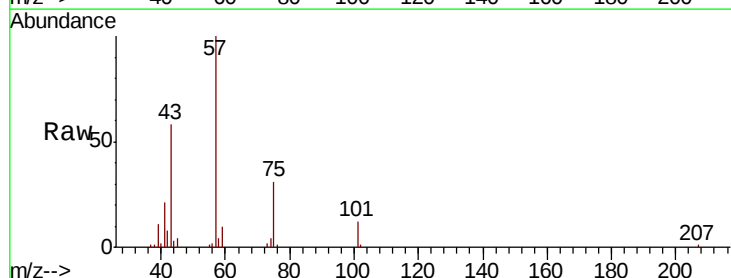
Instrument :
MSVOA_N
ClientSampled :

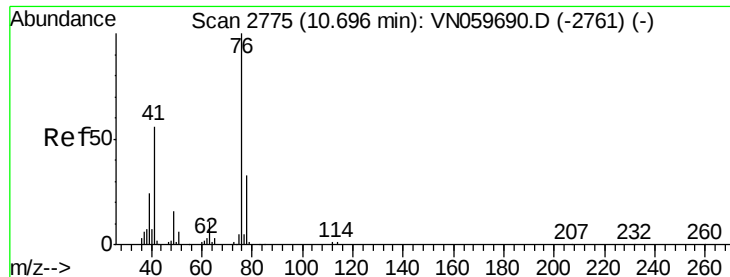
Tot Ion: 43 Resp: 1430
Ion Ratio Lower Upper
43 100
58 47.6 29.8 44.8#



#54
cis-1,3-Dichloropropene
Concen: 4.194 ug/l
RT: 9.89 min Scan# 2525
Delta R.T. 0.07 min
Lab File: VN059789.D
Acq: 20 Jan 2020 16:07

Tgt Ion: 75 Resp: 13851
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#
39 34.3 46.1 69.1#

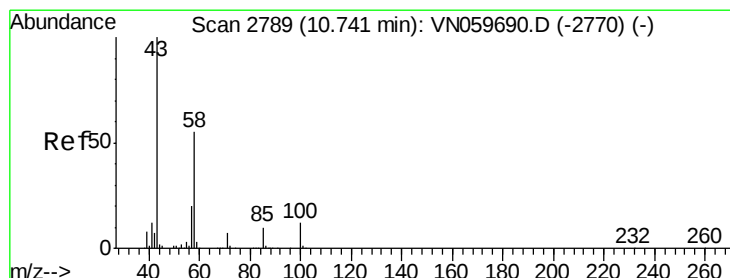
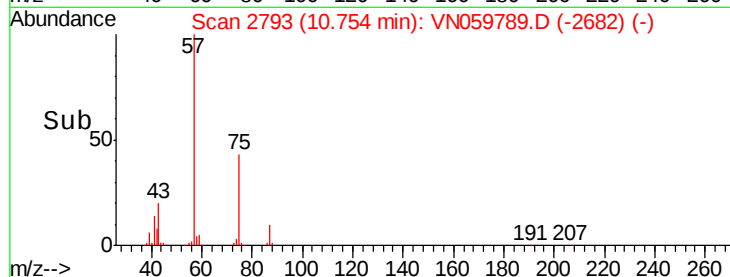
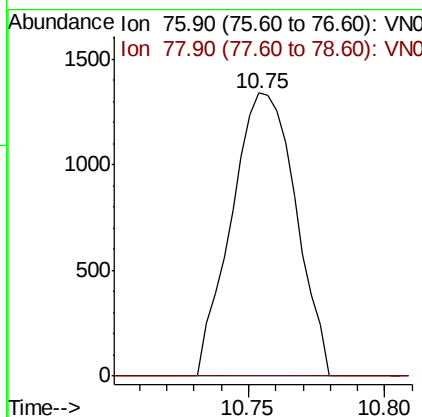
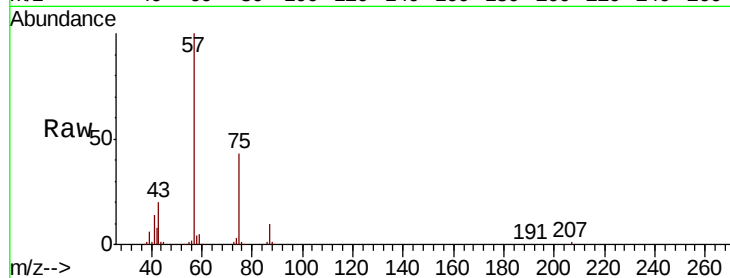




#57
 1,3-Dichloropropane
 Concen: 0.690 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059789.D
 Acq: 20 Jan 2020 16:07

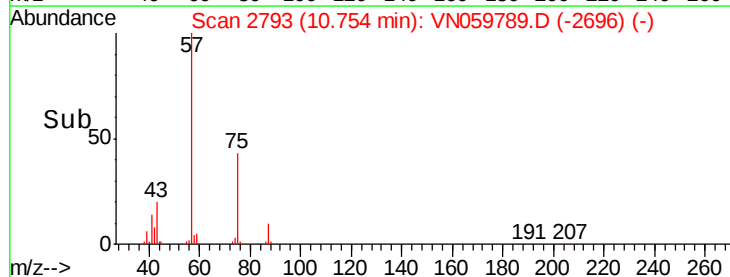
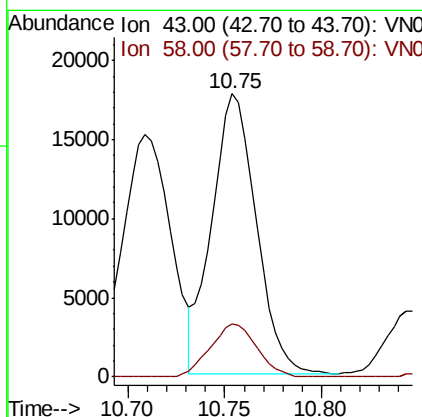
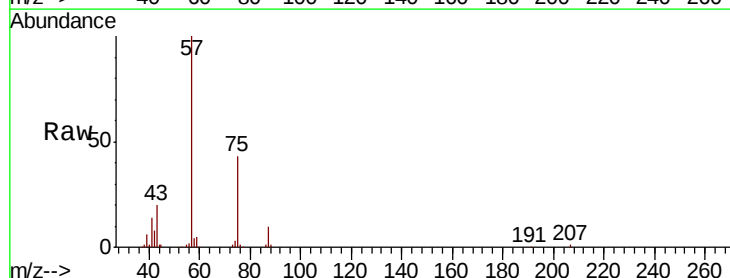
Instrument :
 MSVOA_N
 ClientSampled :

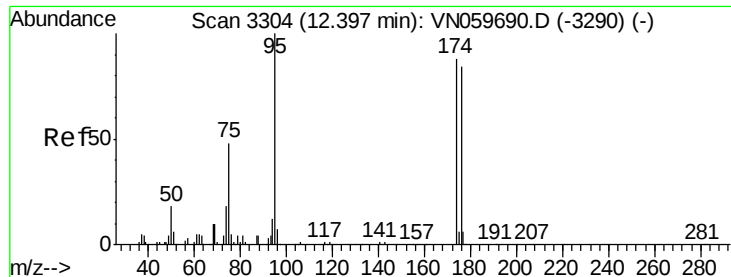
Tot Ion: 76 Resp: 2189
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 15.427 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059789.D
 Acq: 20 Jan 2020 16:07

Tgt Ion: 43 Resp: 28400
 Ion Ratio Lower Upper
 43 100
 58 19.7 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 46.275 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

ClientSampled :

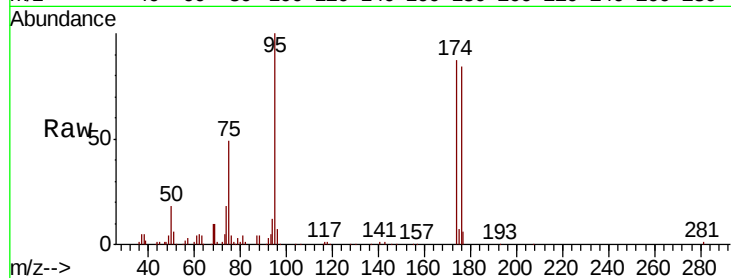
Tot Ion: 95 Resp: 118600

Ion Ratio Lower Upper

95 100

174 88.4 0.0 151.4

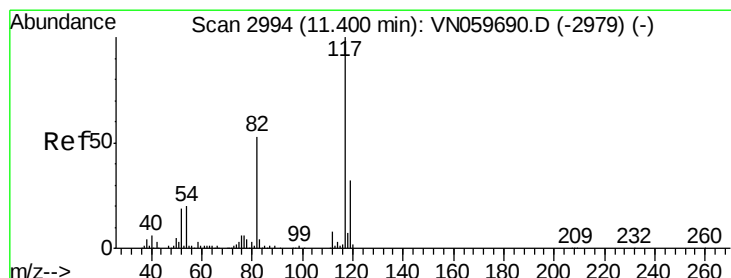
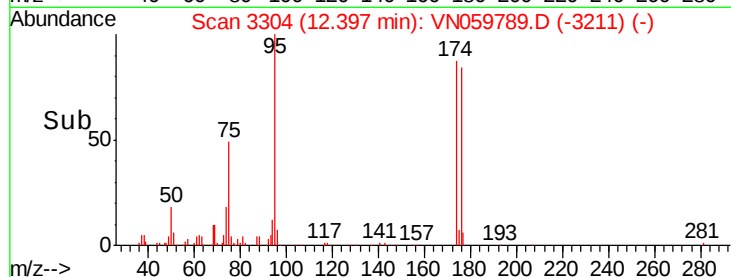
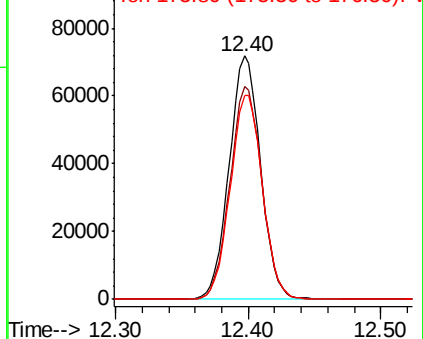
176 85.7 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

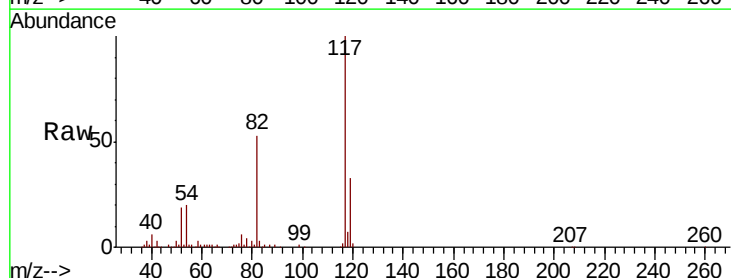
Tgt Ion: 117 Resp: 267079

Ion Ratio Lower Upper

117 100

82 52.8 45.9 68.9

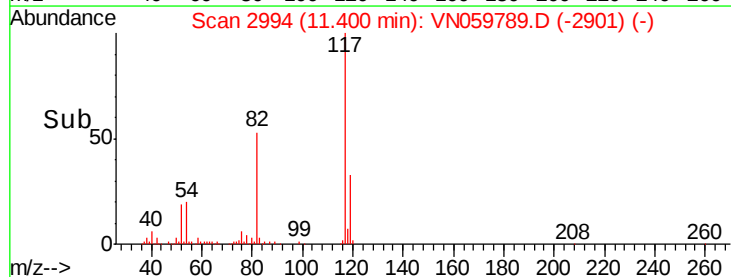
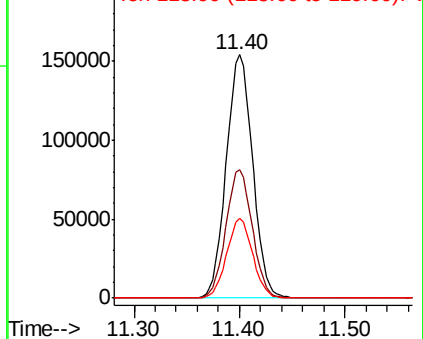
119 32.9 25.5 38.3

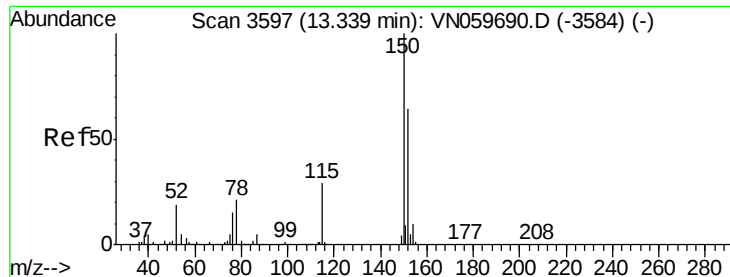


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

ClientSampled :

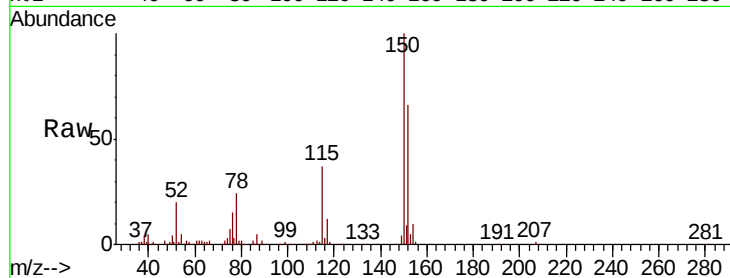
Tot Ion:152 Resp: 111486

Ion Ratio Lower Upper

152 100

115 56.6 30.3 90.9

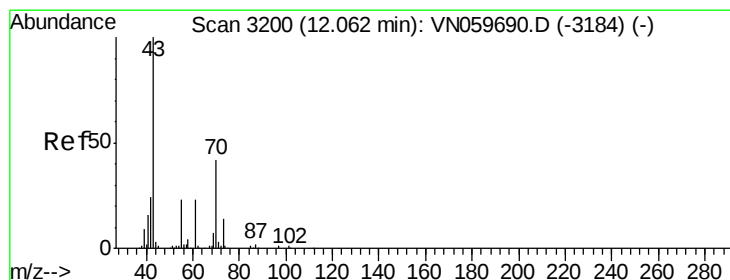
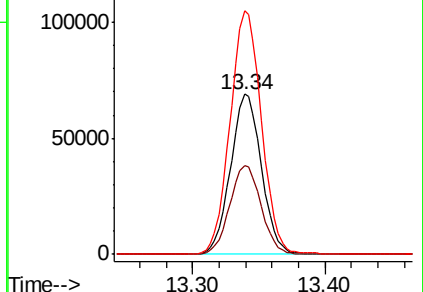
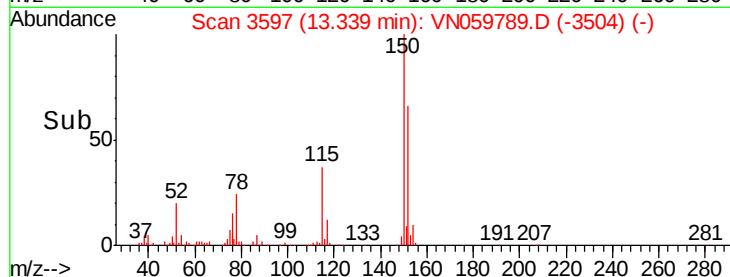
150 154.7 0.0 345.2



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: 0.475 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Tgt Ion: 43 Resp: 1507

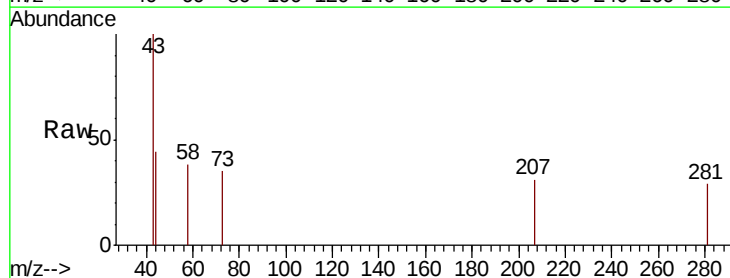
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

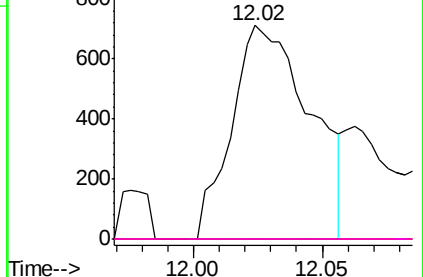
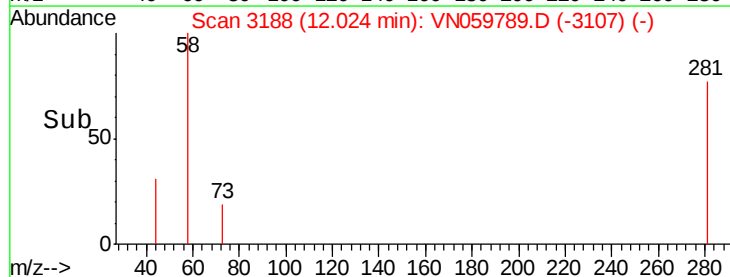


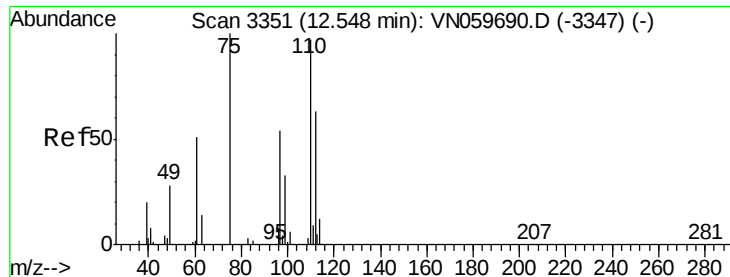
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.703 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

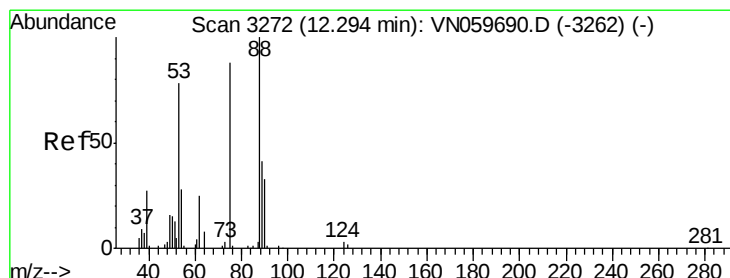
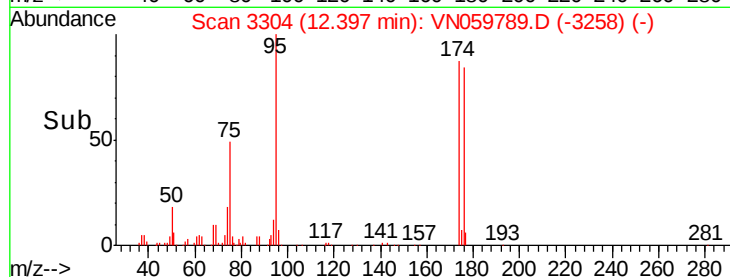
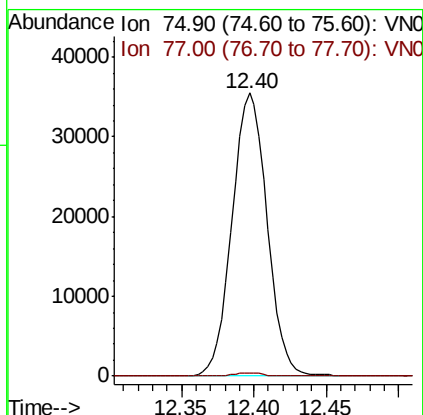
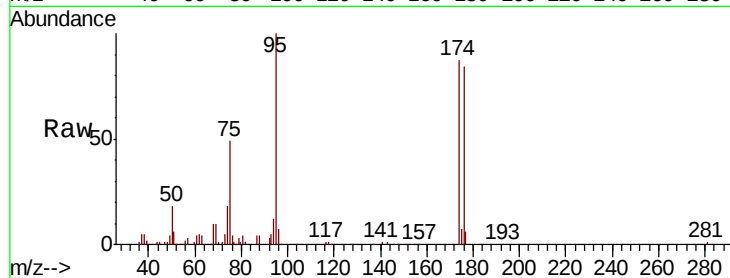
ClientSampleId :

Tot Ion: 75 Resp: 59482

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.083 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

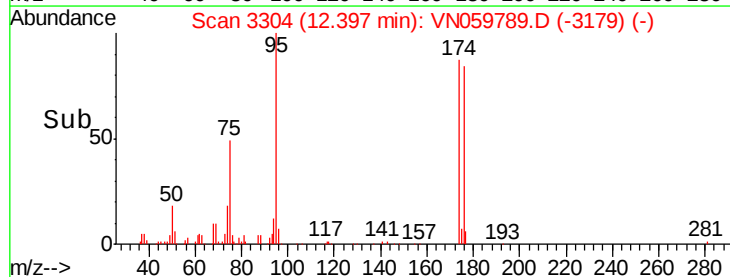
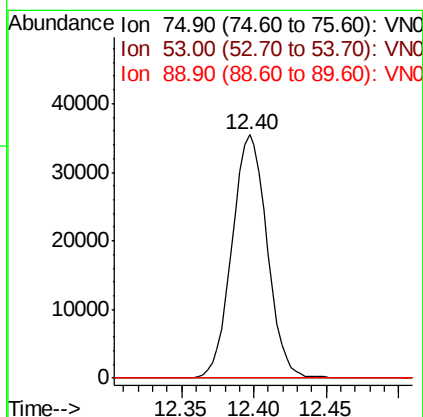
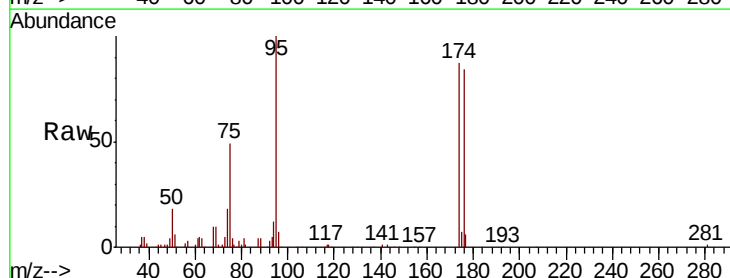
Tgt Ion: 75 Resp: 59482

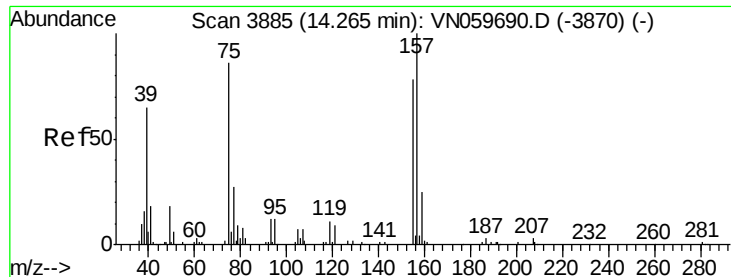
Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.30 min Scan# 3895

Delta R.T. 0.03 min

Lab File: VN059789.D

Acq: 20 Jan 2020 16:07

Instrument :

MSVOA_N

ClientSampleId :

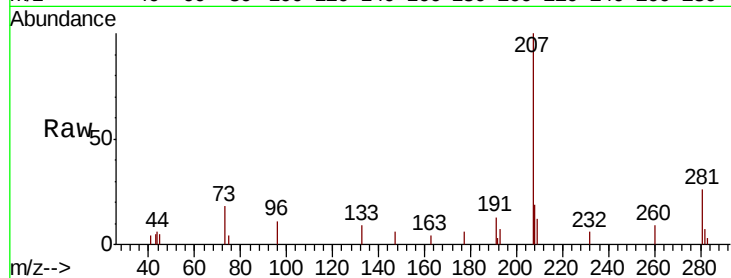
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

