

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059914.D
 Acq On : 29 Jan 2020 15:57
 Operator : JC/MD
 Sample : PB126412ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:03:17 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	203635	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	306930	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	273666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	112607	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	108631	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
35) Dibromofluoromethane	7.57	113	90862	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
50) Toluene-d8	10.08	98	366363	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
62) 4-Bromofluorobenzene	12.40	95	120422	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	

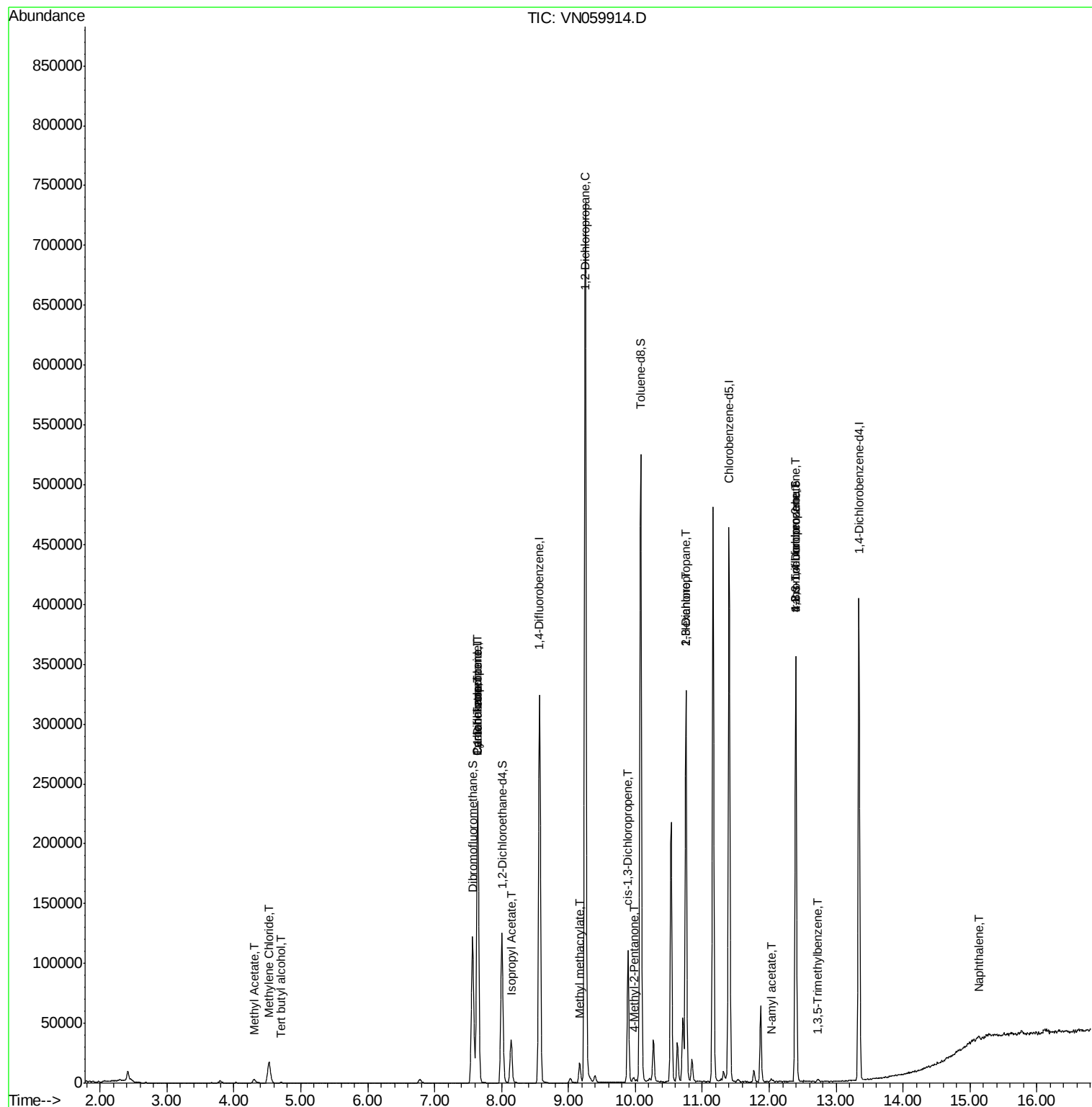
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	260	0.683	ug/l #	72
16) Acetone	3.79	43	2183	Below Cal		97
18) Methyl Acetate	4.30	43	5862	2.219	ug/l #	79
20) Methylene Chloride	4.53	84	14706	6.050	ug/l #	81
31) Cyclohexane	7.64	56	3787	1.132	ug/l #	21
36) 1,1-Dichloropropene	7.64	75	13761	5.148	ug/l #	51
38) Carbon Tetrachloride	7.64	117	19065	6.557	ug/l #	16
43) Isopropyl Acetate	8.14	43	42931	9.956	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	755	0.383	ug/l #	44
48) Methyl methacrylate	9.16	41	2234	1.158	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	2850	1.143	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	21241	6.448	ug/l #	54
57) 1,3-Dichloropropane	10.76	76	3429	1.083	ug/l #	42
59) 2-Hexanone	10.75	43	45515	24.786	ug/l #	54
74) N-amyl acetate	12.03	43	1962	0.612	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	59871	31.593	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1555	0.224	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.40	75	59871	67.846	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.29	75	60	Below Cal	#	6
95) Naphthalene	15.13	128	1708	0.278	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

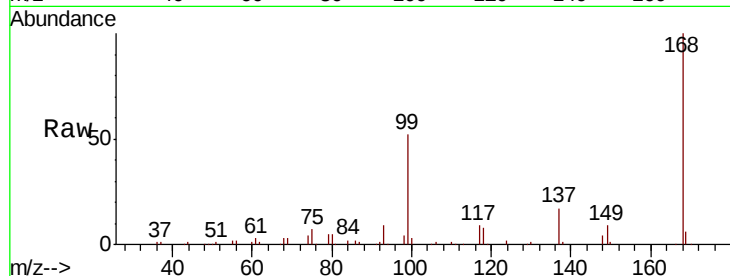
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 203635

Ion Ratio Lower Upper

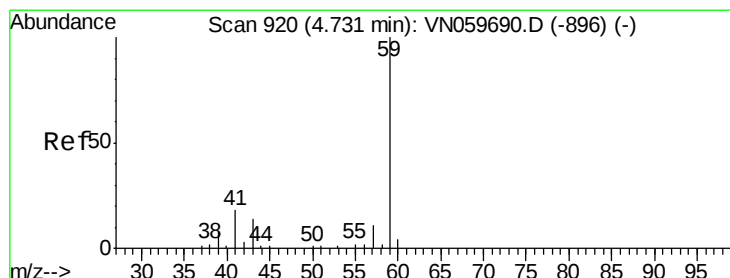
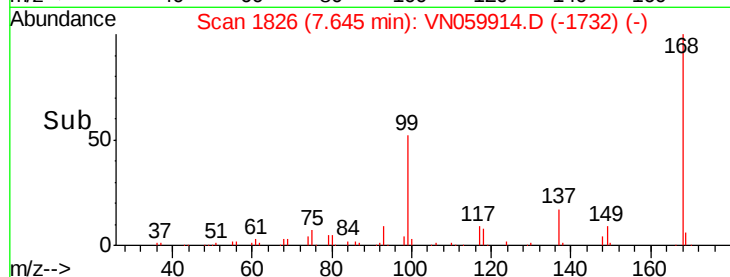
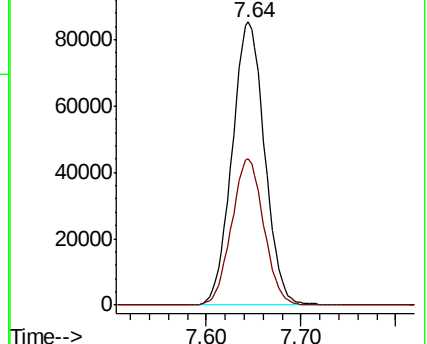
168 100

99 51.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.683 ug/l

RT: 4.70 min Scan# 909

Delta R.T. -0.04 min

Lab File: VN059914.D

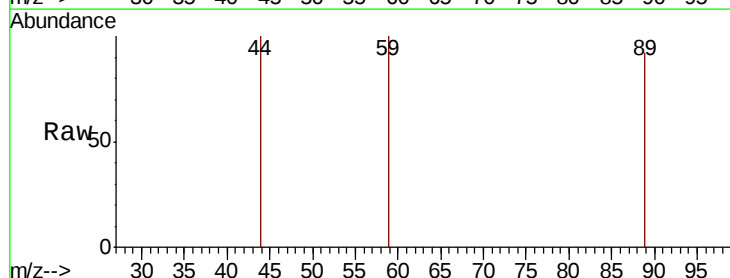
Acq: 29 Jan 2020 15:57

Tgt Ion: 59 Resp: 260

Ion Ratio Lower Upper

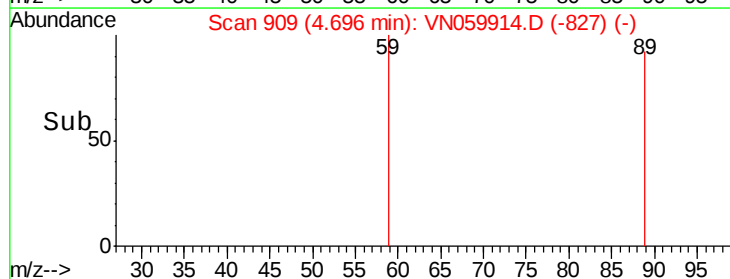
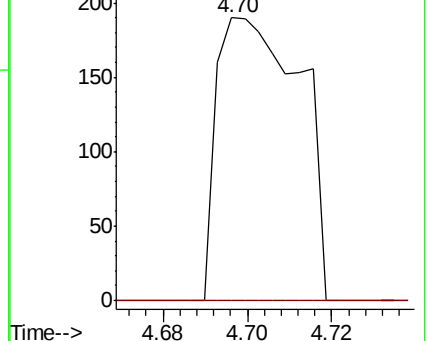
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

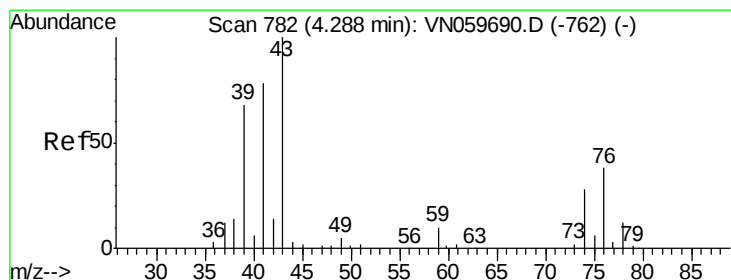
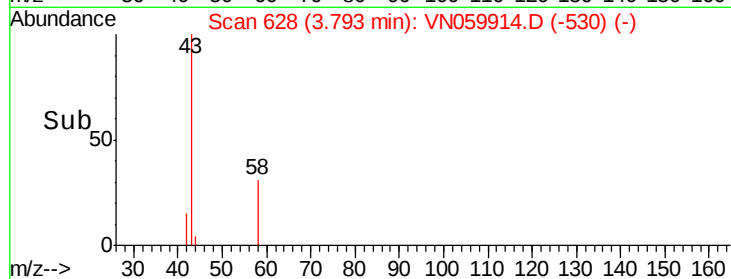
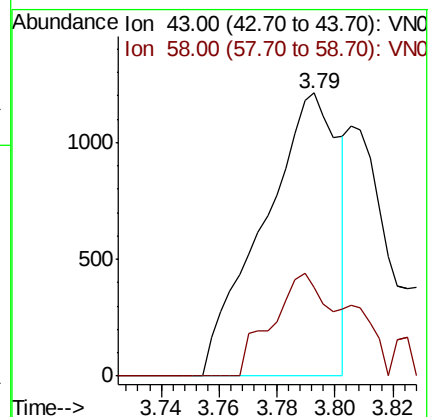
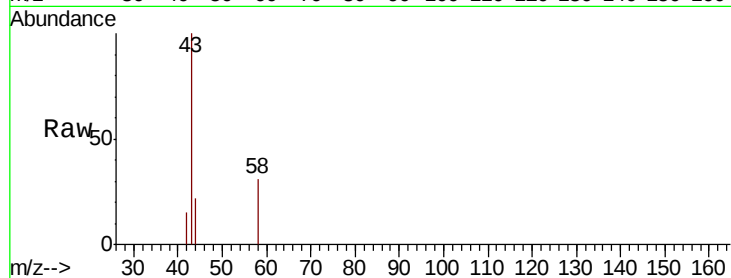
ClientSampled :

Tot Ion: 43 Resp: 2183

Ion Ratio Lower Upper

43 100

58 31.4 23.6 35.4



#18

Methyl Acetate

Concen: 2.219 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN059914.D

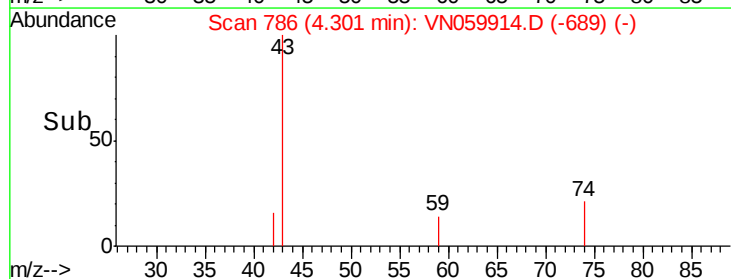
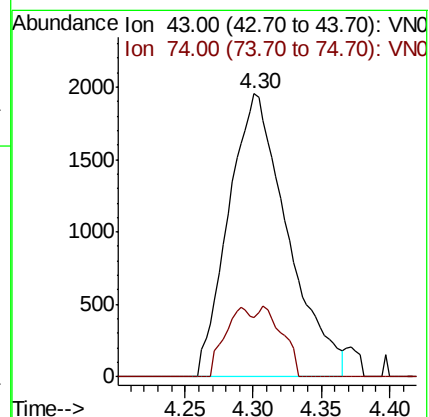
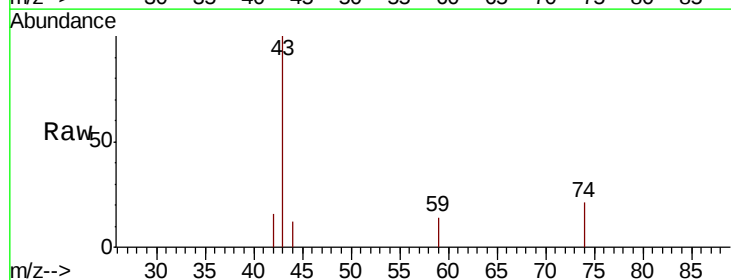
Acq: 29 Jan 2020 15:57

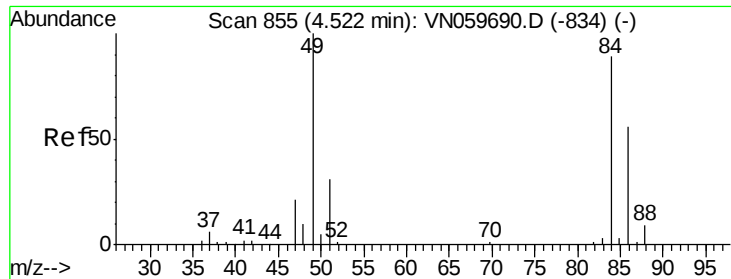
Tgt Ion: 43 Resp: 5862

Ion Ratio Lower Upper

43 100

74 11.9 17.5 26.3#

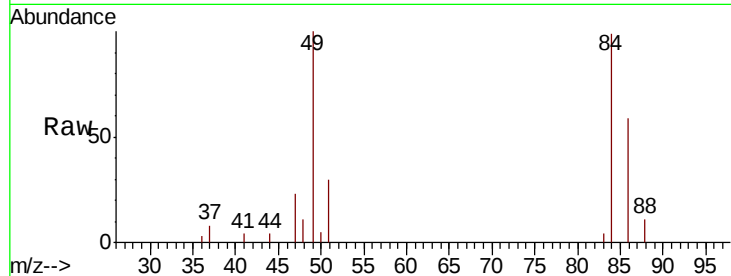




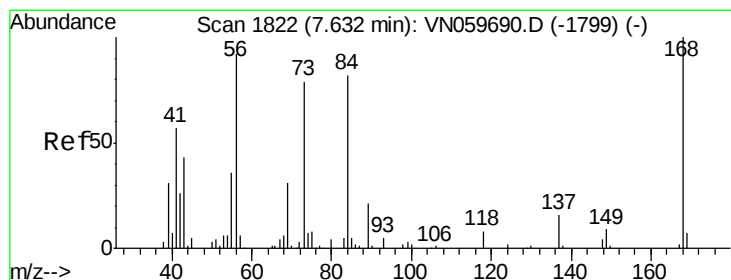
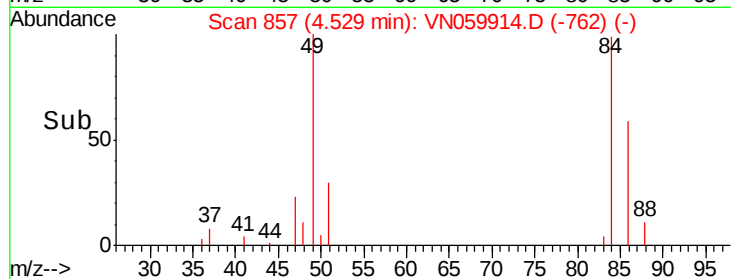
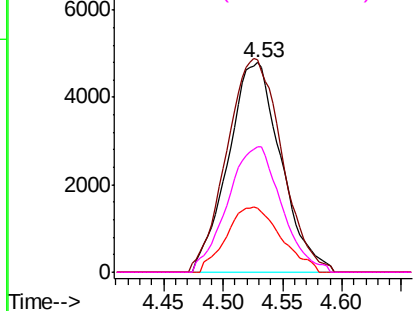
#20
Methylene Chloride
Concen: 6.050 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059914.D
Acq: 29 Jan 2020 15:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 14706
Ion Ratio Lower Upper
84 100
49 101.1 106.6 160.0#
51 30.3 31.9 47.9#
86 59.9 50.8 76.2

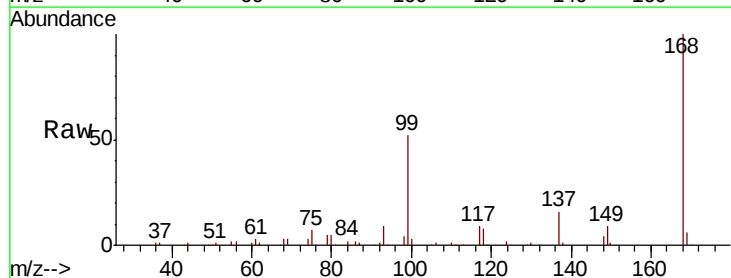


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

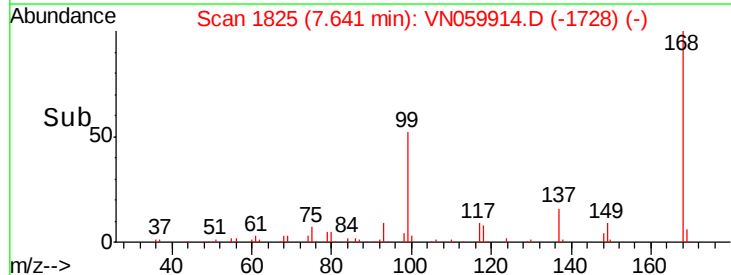
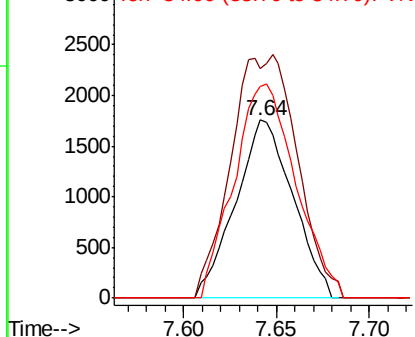


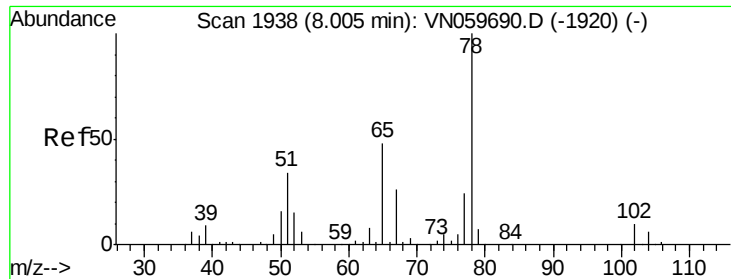
#31
Cyclohexane
Concen: 1.132 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059914.D
Acq: 29 Jan 2020 15:57

Tgt Ion: 56 Resp: 3787
Ion Ratio Lower Upper
56 100
69 129.2 26.5 39.7#
84 119.3 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

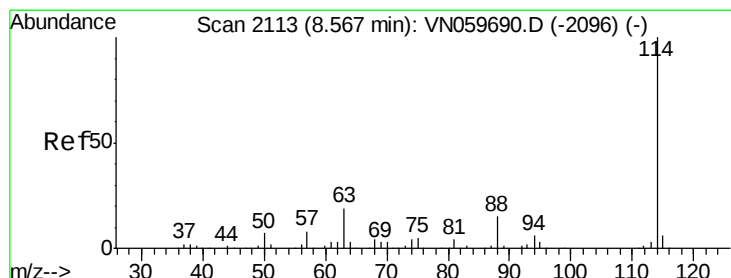
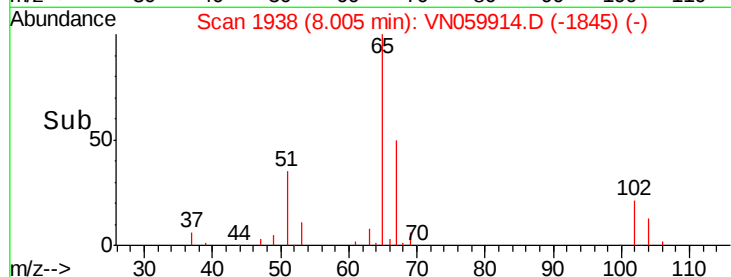
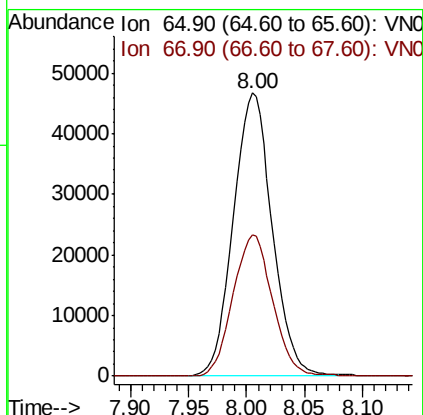
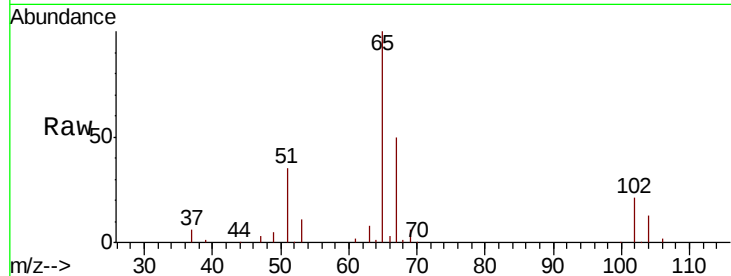




#33
 1,2-Dichloroethane-d4
 Concen: 48.037 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059914.D
 Acq: 29 Jan 2020 15:57

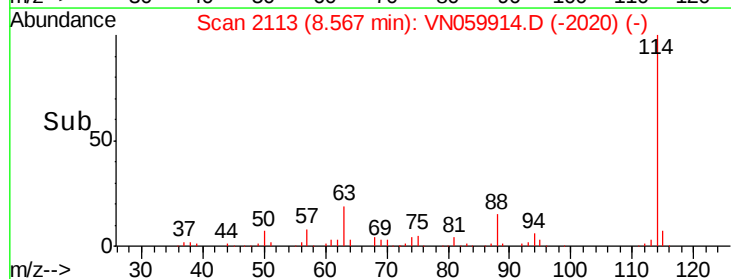
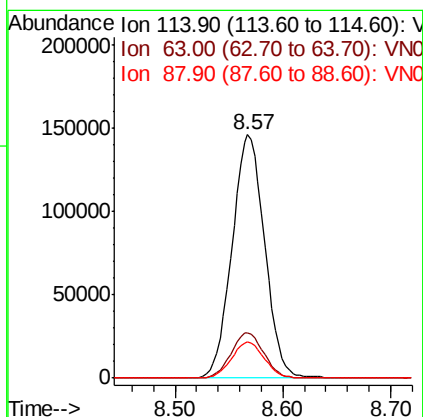
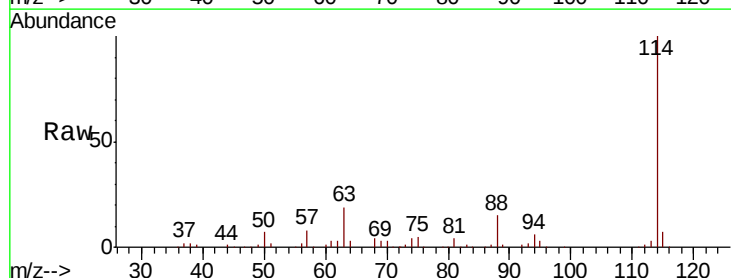
Instrument :
 MSVOA_N
 ClientSampled :

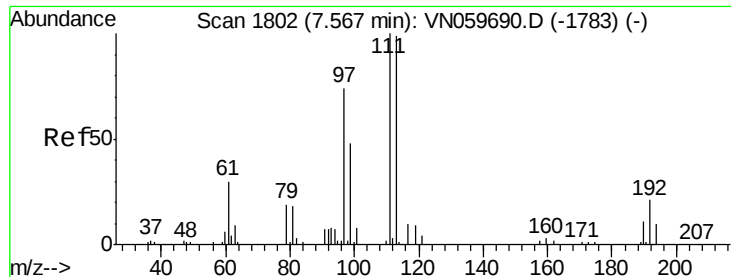
Tot Ion: 65 Resp: 108631
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059914.D
 Acq: 29 Jan 2020 15:57

Tgt Ion: 114 Resp: 306930
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.6
 88 14.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.642 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :
MSVOA_N
ClientSampleId :

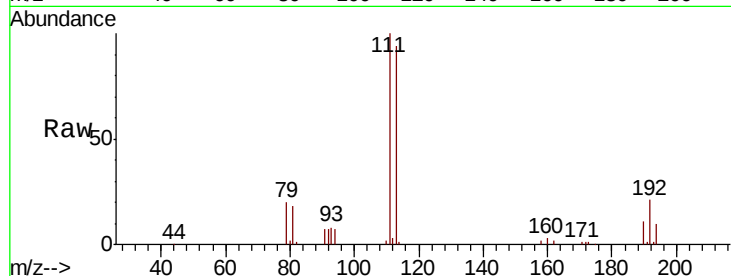
Tot Ion:113 Resp: 90862

Ion Ratio Lower Upper

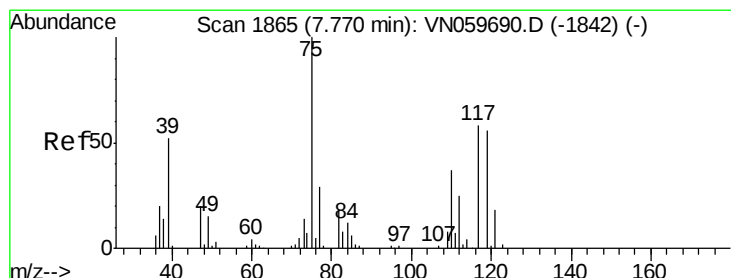
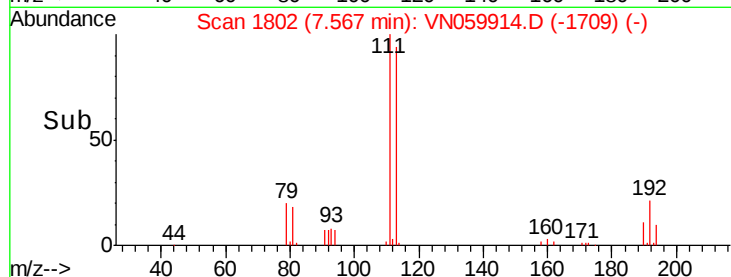
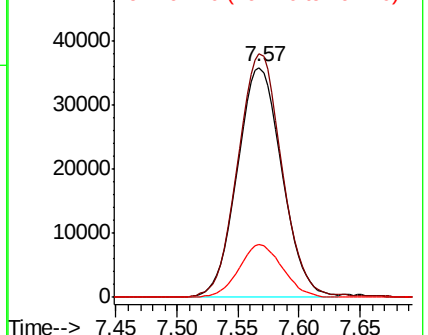
113 100

111 105.2 83.5 125.3

192 22.3 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: 5.148 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

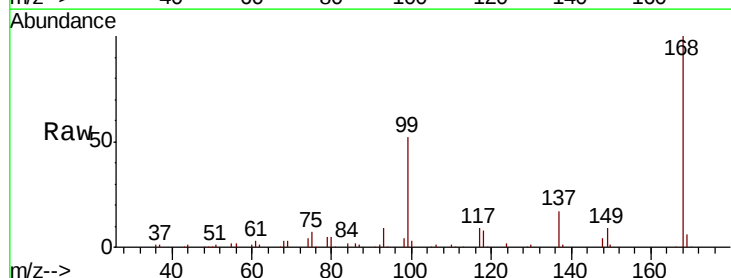
Tgt Ion: 75 Resp: 13761

Ion Ratio Lower Upper

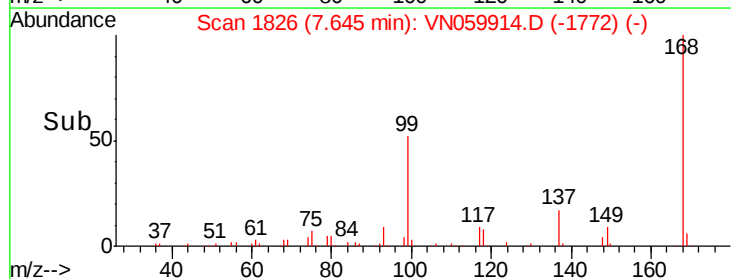
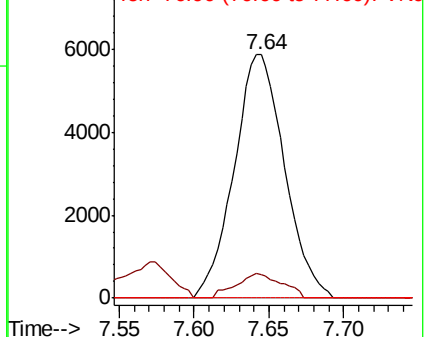
75 100

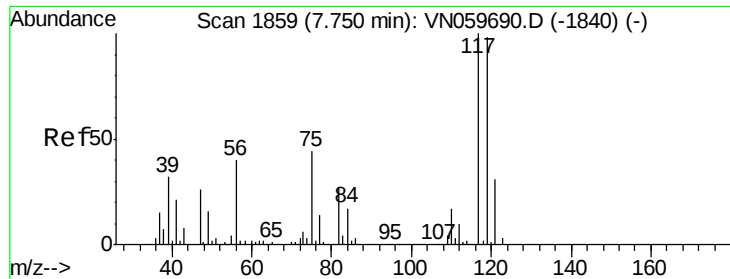
110 9.2 16.6 49.7#

77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 6.557 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

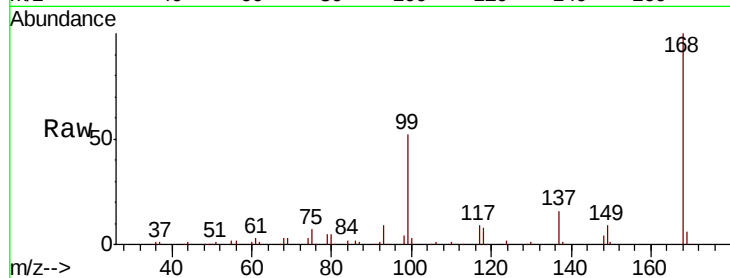
Tot Ion:117 Resp: 19065

Ion Ratio Lower Upper

117 100

119 4.4 76.5 114.7#

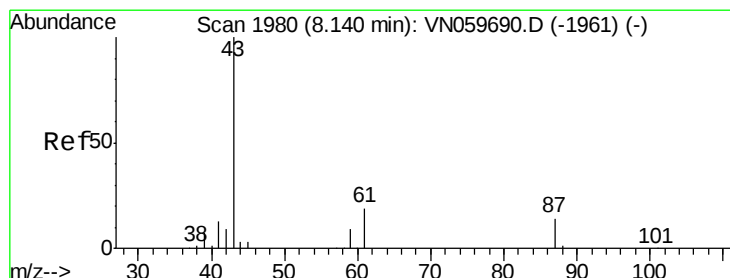
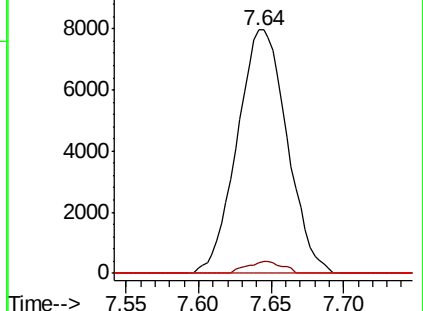
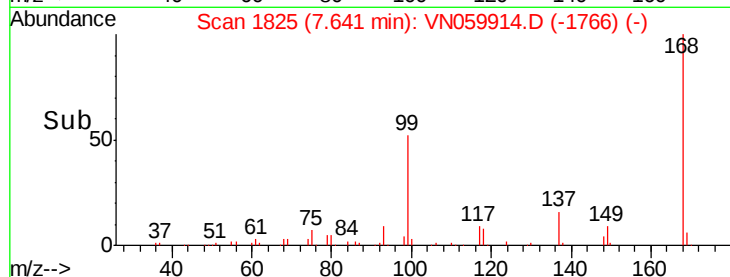
121 0.0 25.1 37.7#



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: 9.956 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

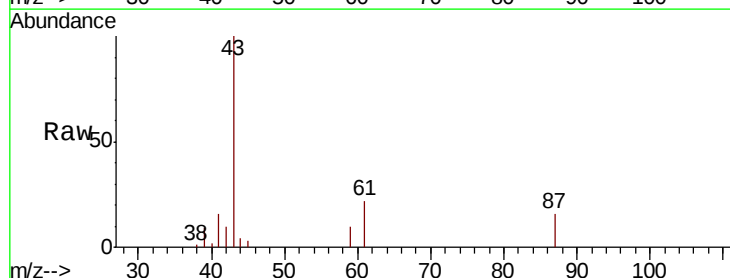
Tgt Ion: 43 Resp: 42931

Ion Ratio Lower Upper

43 100

61 20.3 20.2 30.2

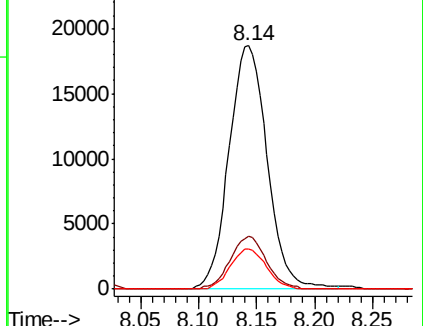
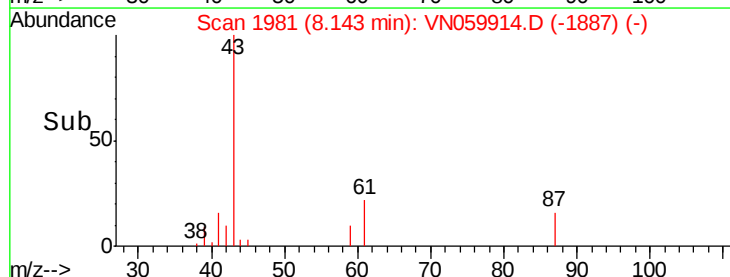
87 15.4 9.5 14.3#

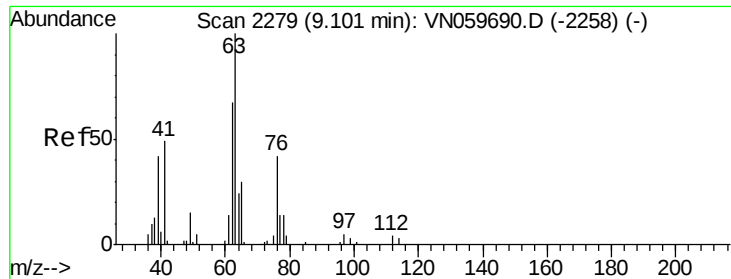


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

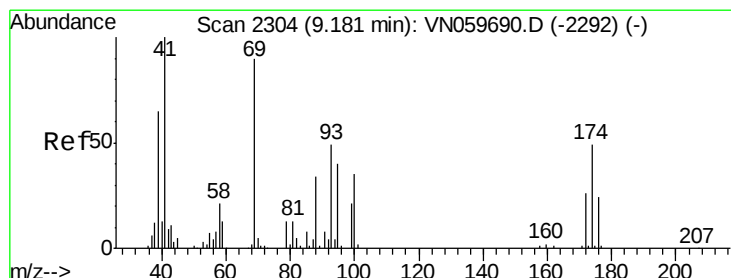
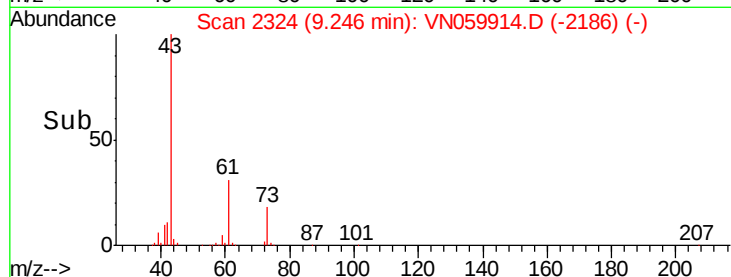
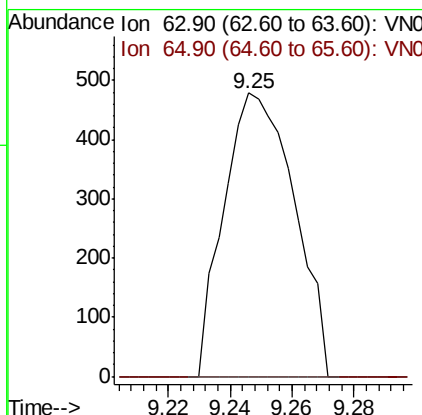
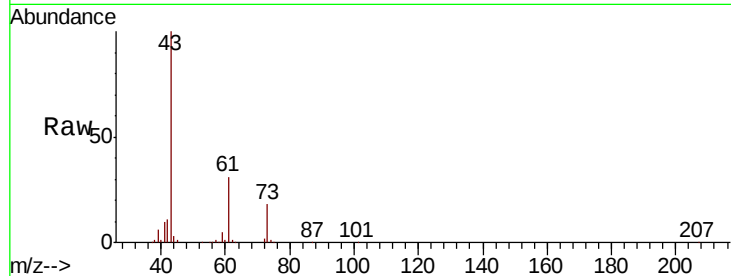




#45
 1,2-Dichloropropane
 Concen: 0.383 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN059914.D
 Acq: 29 Jan 2020 15:57

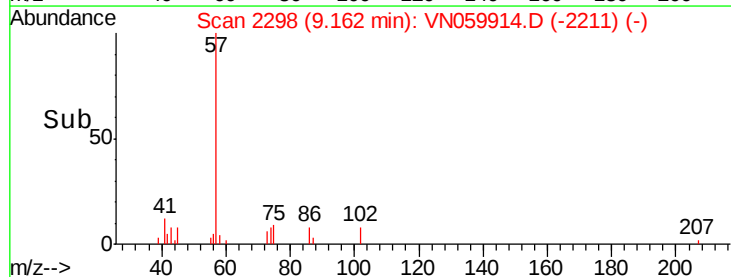
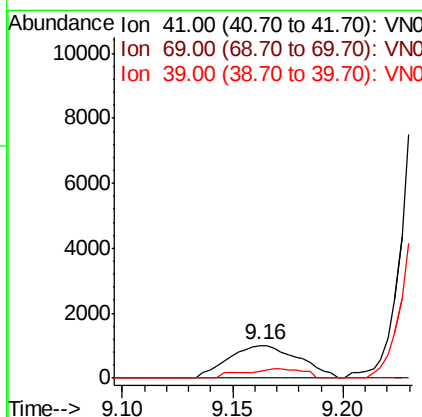
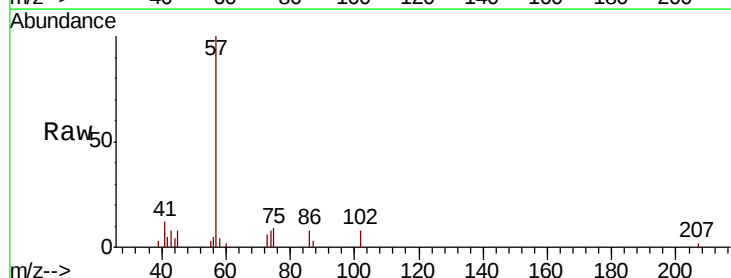
Instrument :
 MSVOA_N
 ClientSampled :

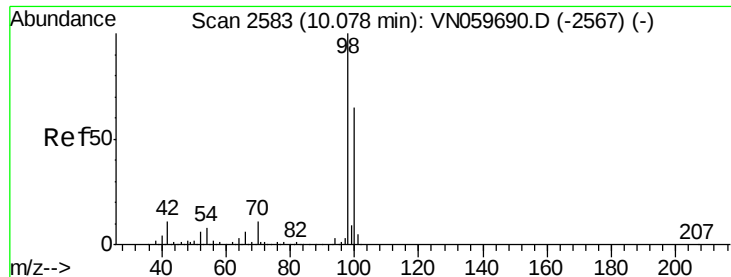
Tot Ion: 63 Resp: 755
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.158 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN059914.D
 Acq: 29 Jan 2020 15:57

Tgt Ion: 41 Resp: 2234
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 51.661 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

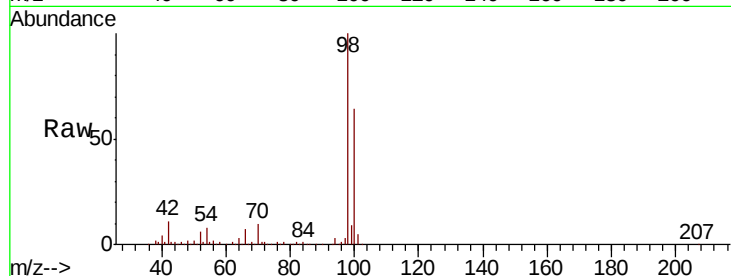
ClientSampled :

Tot Ion: 98 Resp: 366363

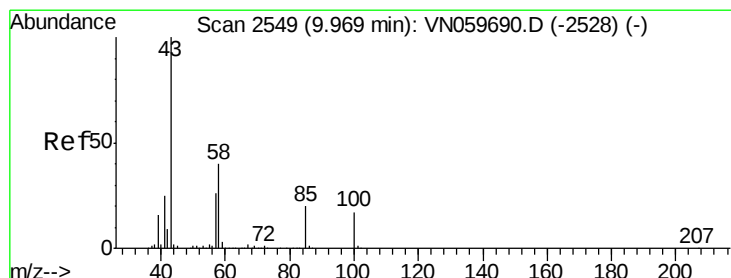
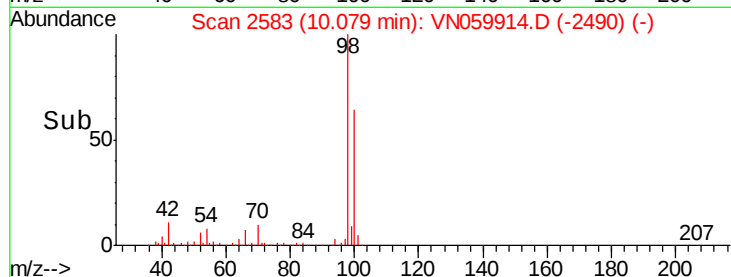
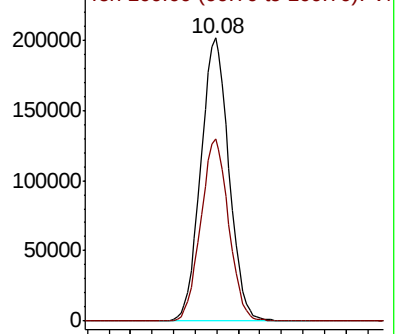
Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059914.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.143 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.01 min

Lab File: VN059914.D

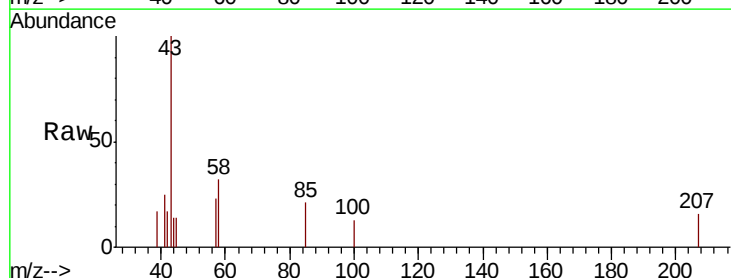
Acq: 29 Jan 2020 15:57

Tgt Ion: 43 Resp: 2850

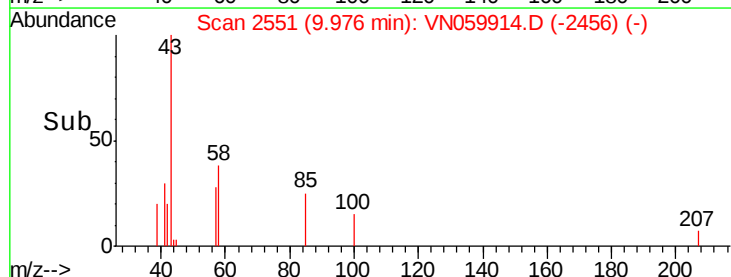
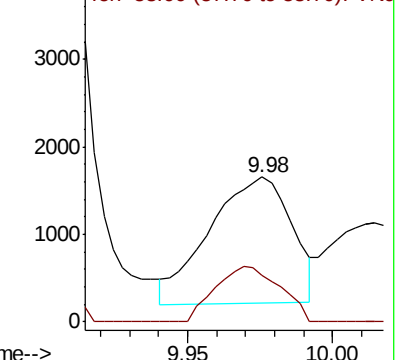
Ion Ratio Lower Upper

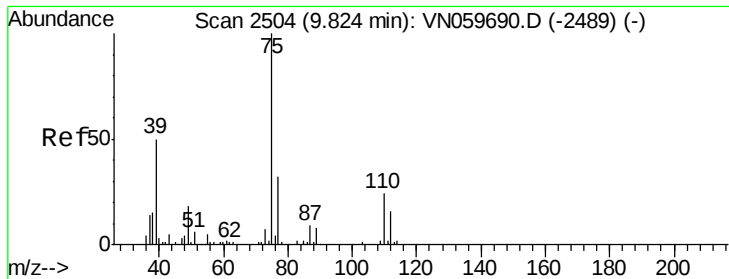
43 100

58 34.7 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059914.D (-2456) (-)



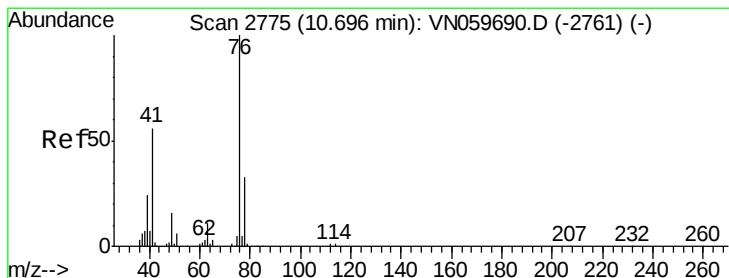
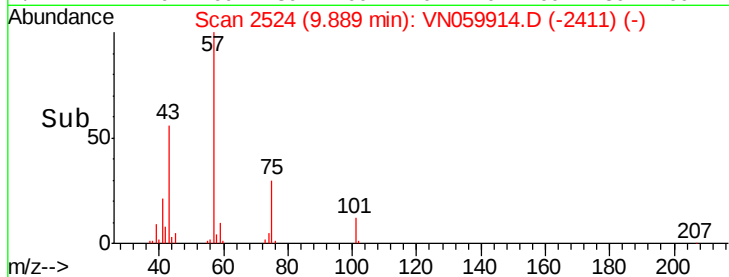
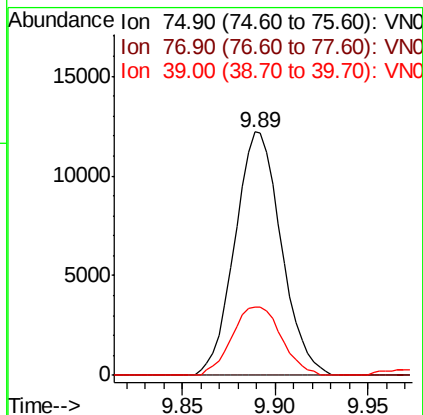
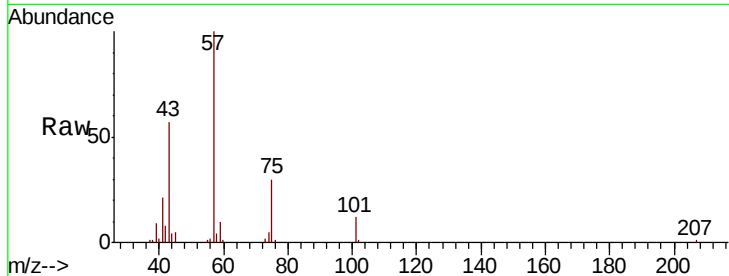


#54

cis-1,3-Dichloropropene
 Concen: 6.448 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059914.D
 Acq: 29 Jan 2020 15:57

Instrument :
 MSVOA_N
 ClientSampleId :

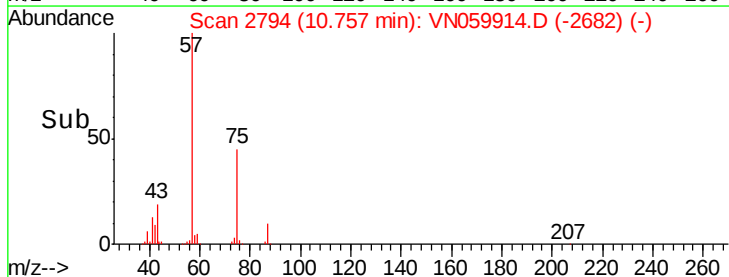
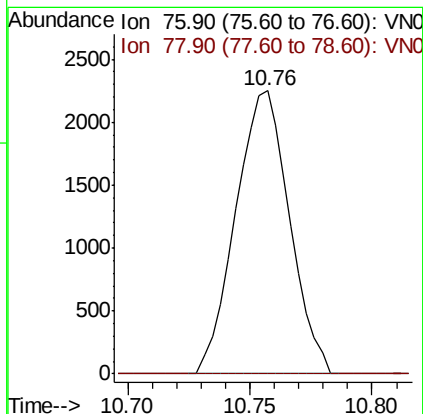
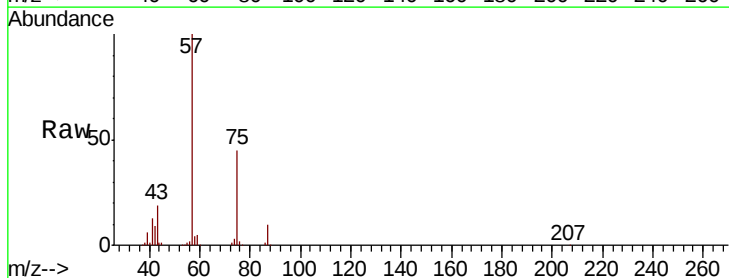
Tot Ion: 75 Resp: 21241
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 28.3 46.1 69.1#

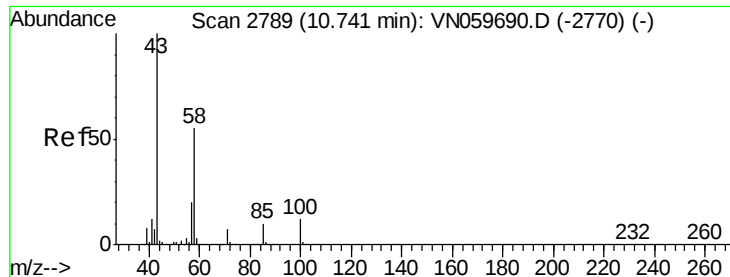


#57

1,3-Dichloropropane
 Concen: 1.083 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN059914.D
 Acq: 29 Jan 2020 15:57

Tgt Ion: 76 Resp: 3429
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

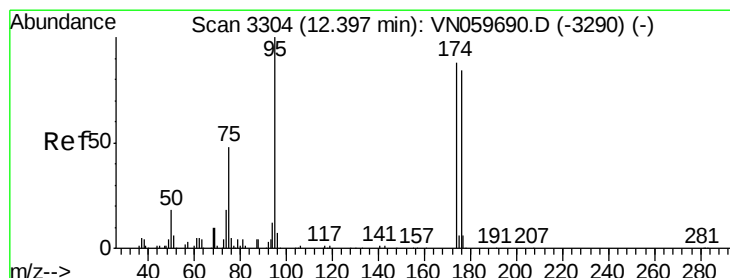
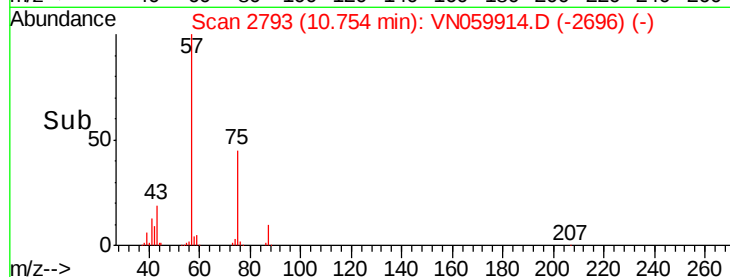
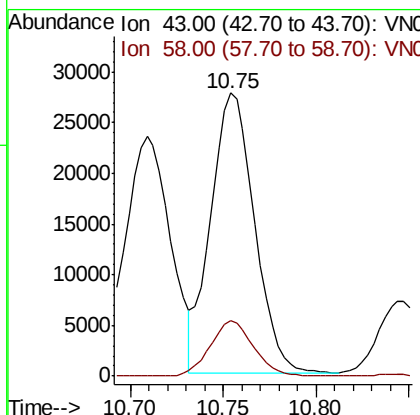
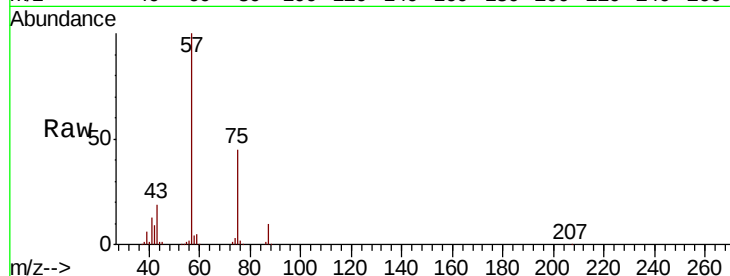




#59
2-Hexanone
Concen: 24.786 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059914.D
Acq: 29 Jan 2020 15:57

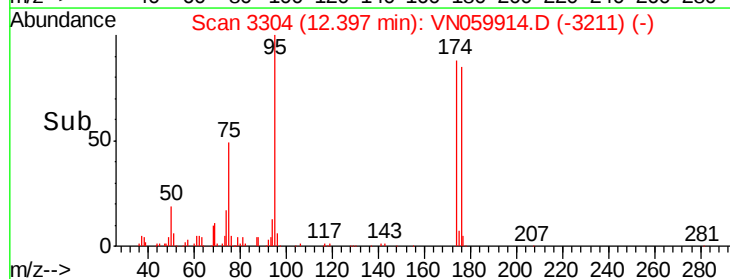
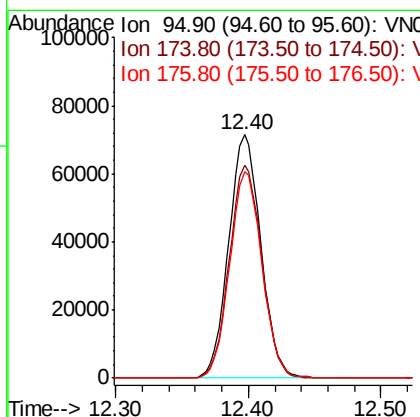
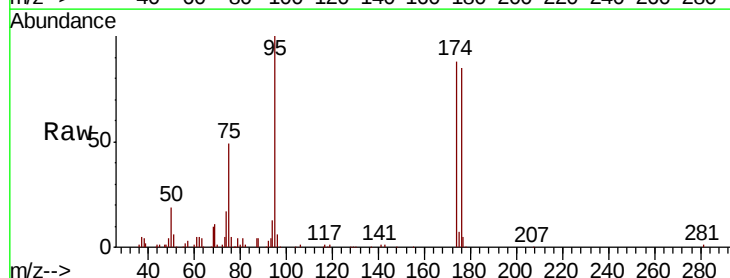
Instrument :
MSVOA_N
ClientSampleId :

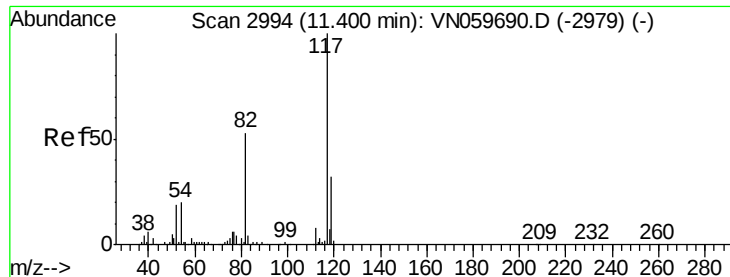
Tot Ion: 43 Resp: 45515
Ion Ratio Lower Upper
43 100
58 19.4 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.103 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059914.D
Acq: 29 Jan 2020 15:57

Tgt Ion: 95 Resp: 120422
Ion Ratio Lower Upper
95 100
174 88.6 0.0 151.4
176 85.1 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

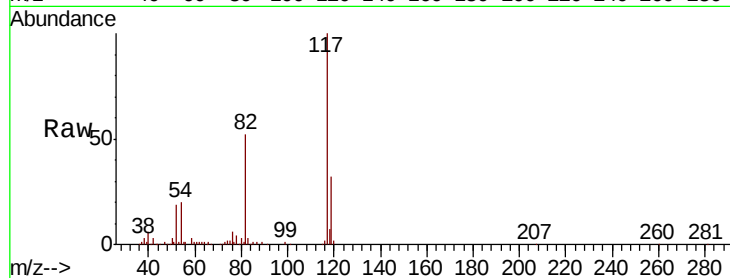
Tot Ion:117 Resp: 273666

Ion Ratio Lower Upper

117 100

82 51.6 45.9 68.9

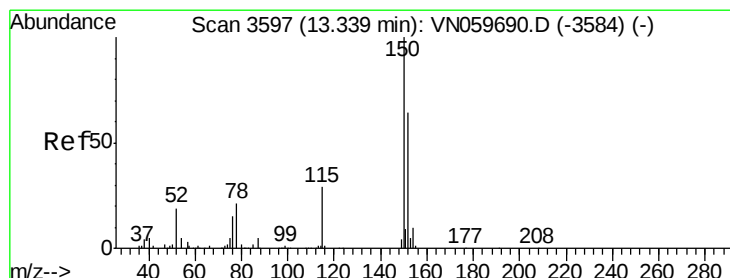
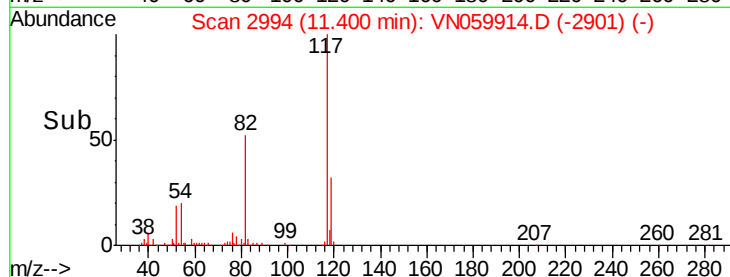
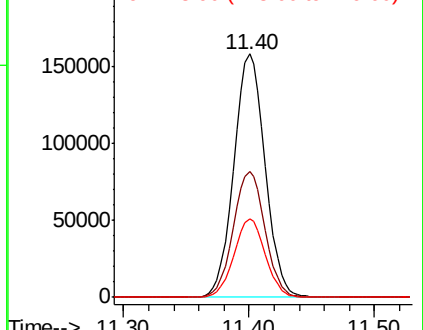
119 32.1 25.5 38.3



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: VN059914.D

Acq: 29 Jan 2020 15:57

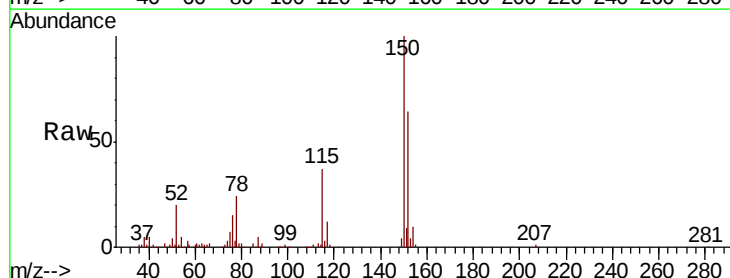
Tgt Ion:152 Resp: 112607

Ion Ratio Lower Upper

152 100

115 57.5 30.3 90.9

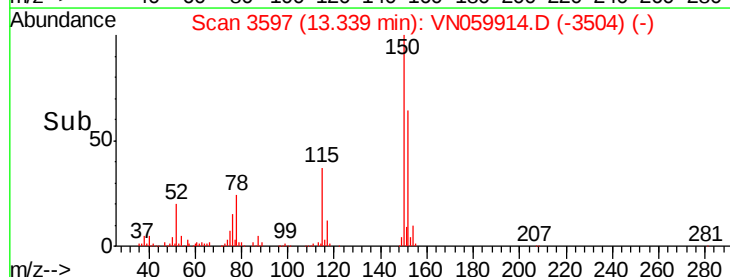
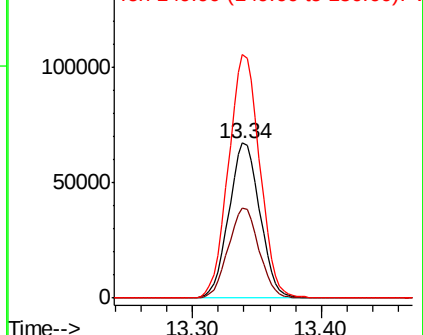
150 157.9 0.0 345.2

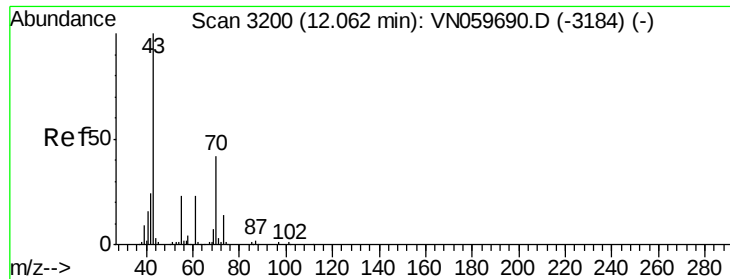


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.612 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1962

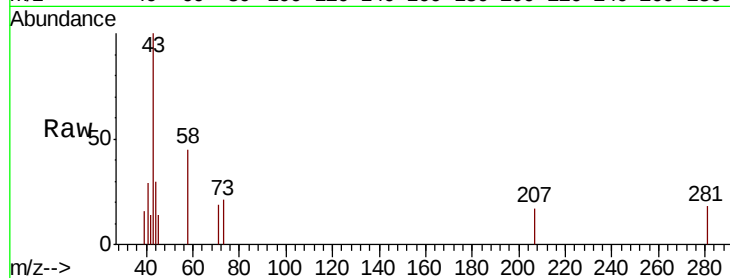
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

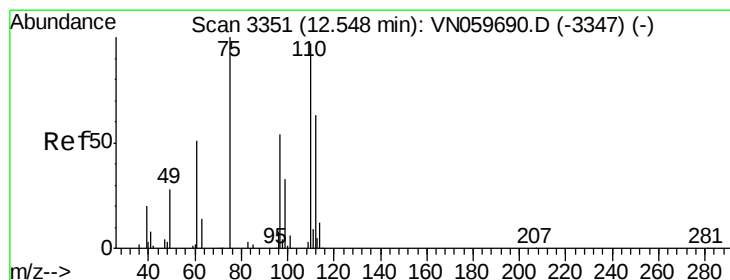
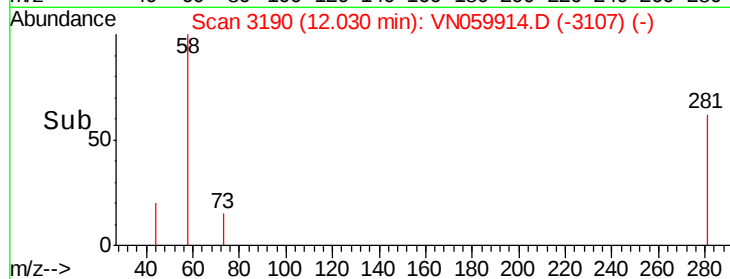
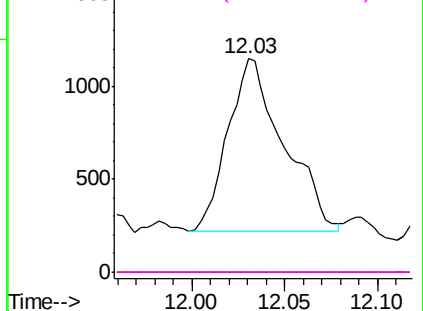


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.593 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059914.D

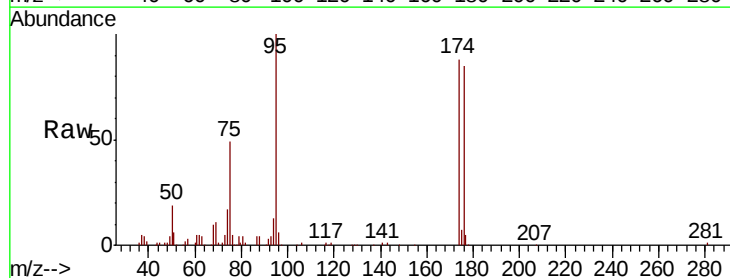
Acq: 29 Jan 2020 15:57

Tgt Ion: 75 Resp: 59871

Ion Ratio Lower Upper

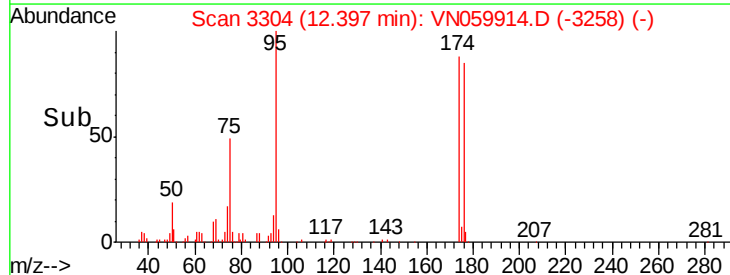
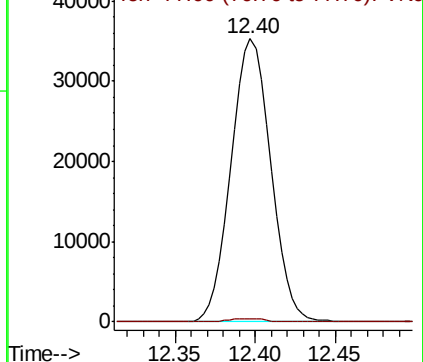
75 100

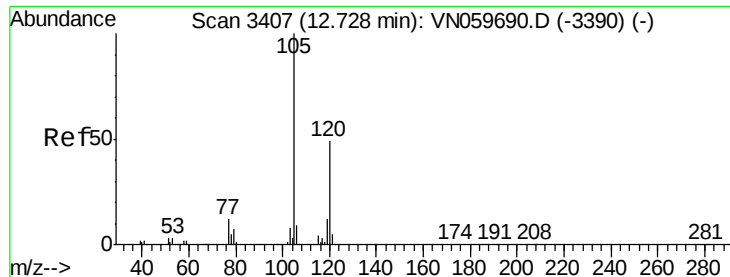
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.224 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

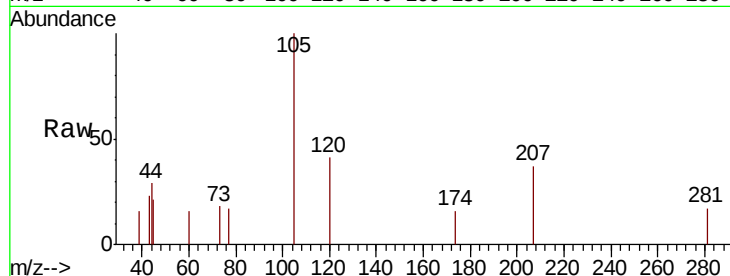
ClientSampled :

Tot Ion:105 Resp: 1555

Ion Ratio Lower Upper

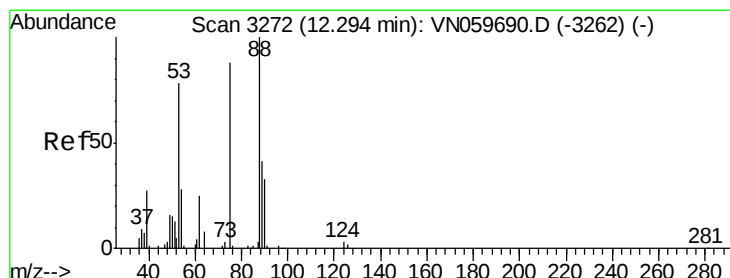
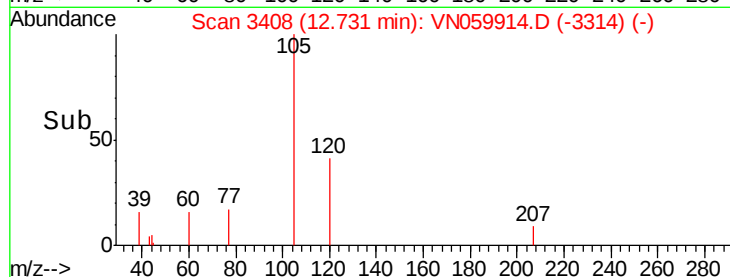
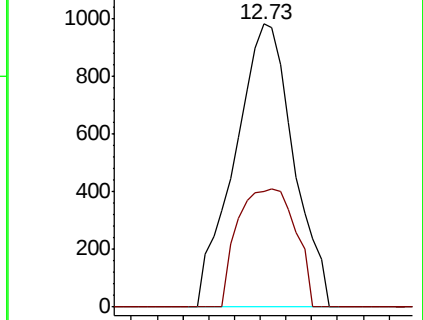
105 100

120 41.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.846 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

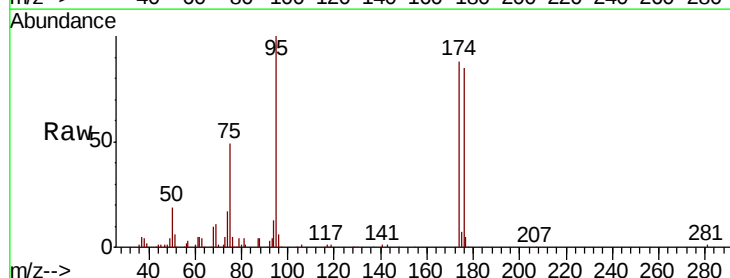
Tgt Ion: 75 Resp: 59871

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

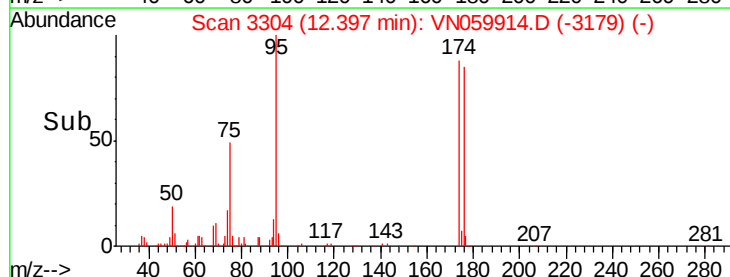
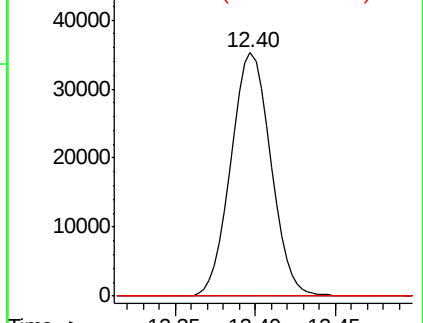
89 0.0 35.4 53.2#

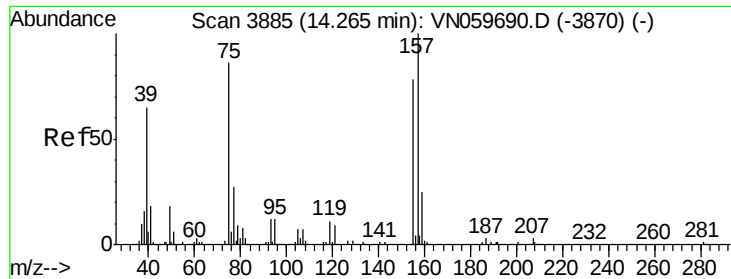


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.29 min Scan# 3893

Delta R.T. 0.03 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

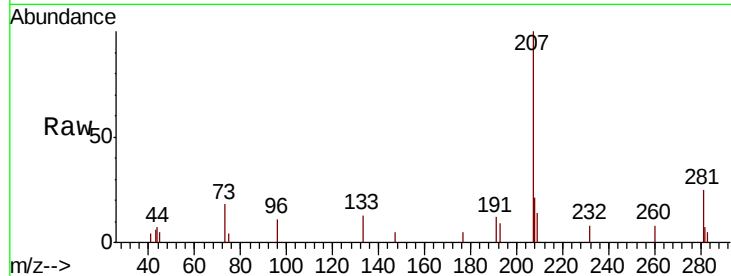
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

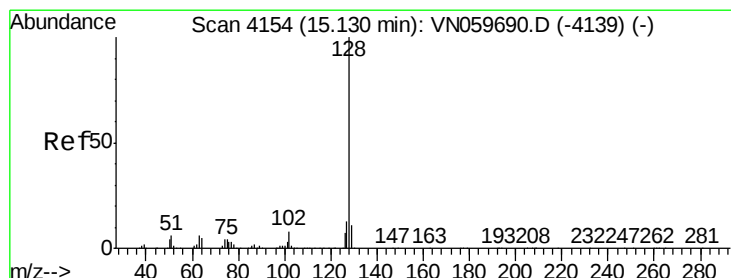
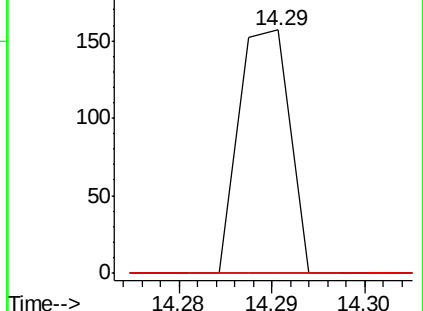
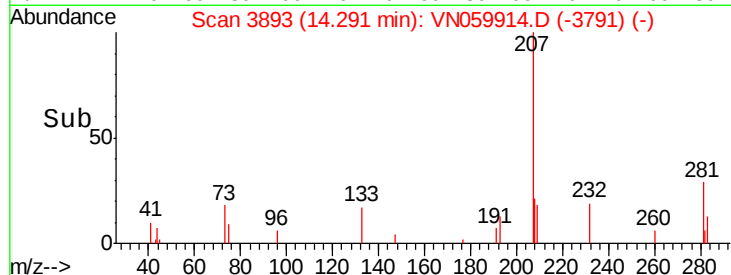
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059914.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059914.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059914.D (-3791) (-)



#95

Naphthalene

Concen: 0.278 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059914.D

Acq: 29 Jan 2020 15:57

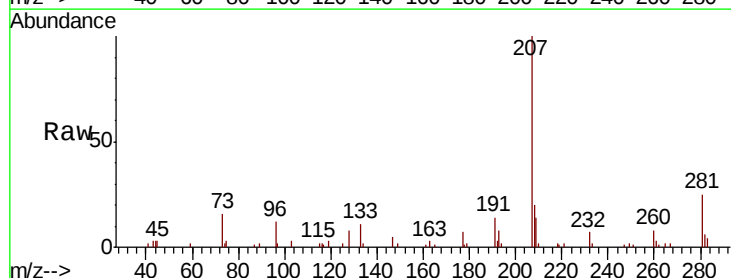
Tgt Ion: 128 Resp: 1708

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN059914.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN059914.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN059914.D (-4061) (-)

