

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012720\
 Data File : VN059878.D
 Acq On : 27 Jan 2020 17:26
 Operator : JC/MD
 Sample : L1269-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 27 23:11:44 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	212140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	315985	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	281624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116518	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	111063	47.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.28%	
35) Dibromofluoromethane	7.56	113	95924	50.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.82%	
50) Toluene-d8	10.08	98	374687	51.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.64%	
62) 4-Bromofluorobenzene	12.40	95	125402	47.65	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.30%	

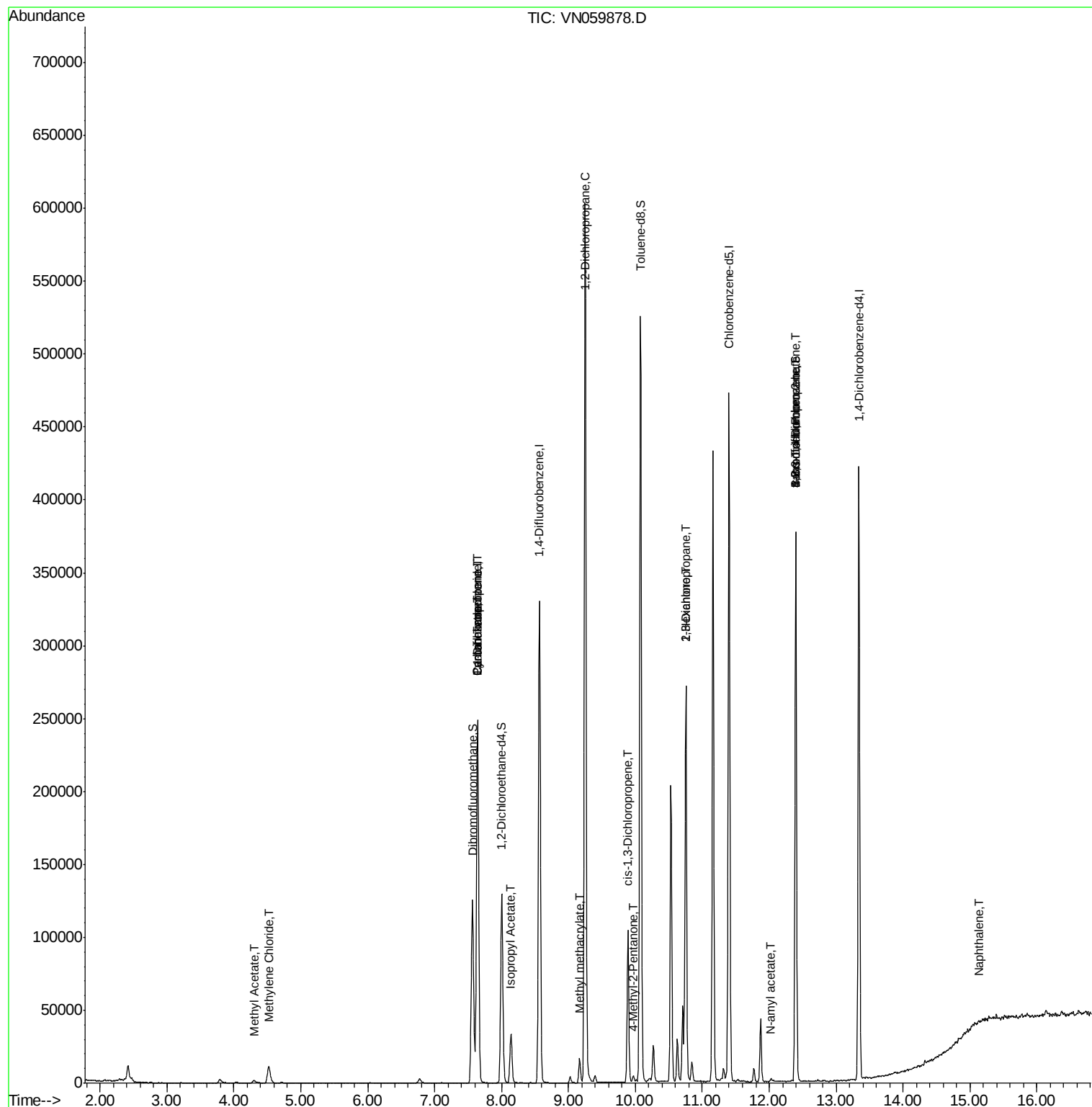
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4379	Below Cal	#	83
18) Methyl Acetate	4.30	43	3629	1.319	ug/l #	70
20) Methylene Chloride	4.51	84	9770	3.377	ug/l #	78
31) Cyclohexane	7.64	56	3889	1.116	ug/l #	4
36) 1,1-Dichloropropene	7.64	75	14240	5.175	ug/l #	51
38) Carbon Tetrachloride	7.64	117	19849	6.631	ug/l #	16
43) Isopropyl Acetate	8.14	43	39423	8.881	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	740	0.364	ug/l #	44
48) Methyl methacrylate	9.16	41	2113	1.064	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2738	1.067	ug/l #	94
54) cis-1,3-Dichloropropene	9.89	75	19965	5.887	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2999	0.920	ug/l #	42
59) 2-Hexanone	10.75	43	37851	20.022	ug/l #	56
71) Bromoform	12.39	173	767	0.448	ug/l #	1
74) N-amyl acetate	12.03	43	2010	0.606	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63031	32.144	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63031	69.030	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	97	Below Cal	#	6
95) Naphthalene	15.13	128	1611	0.254	ug/l #	82

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

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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# 1825

Delta R.T. 0.00 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

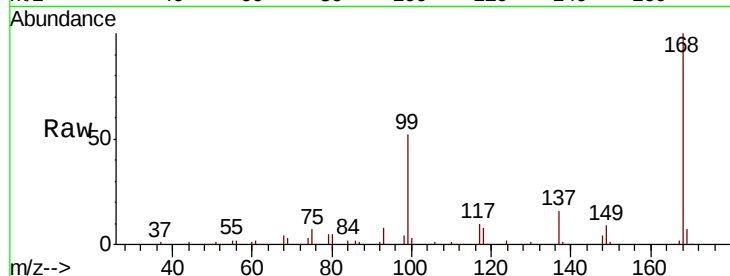
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 212140

Ion Ratio Lower Upper

168 100

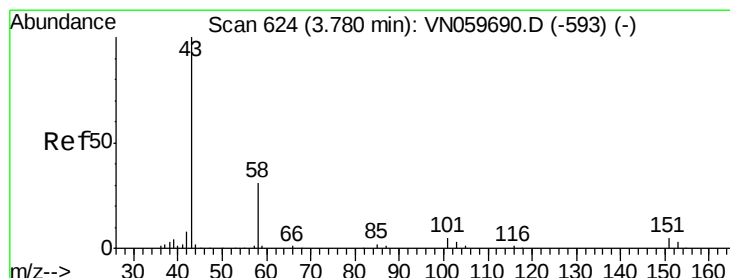
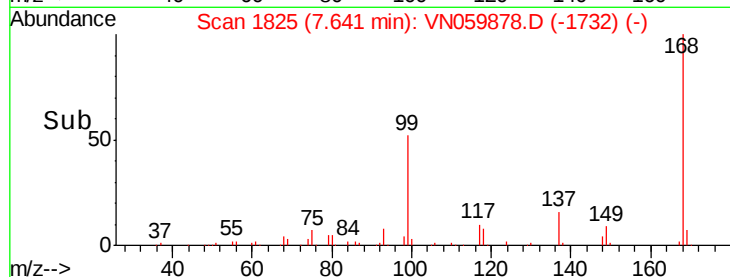
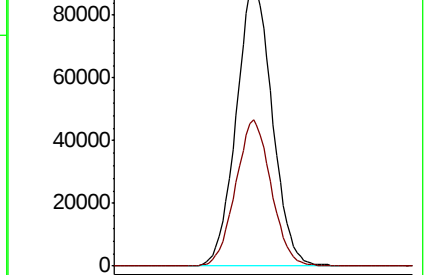
99 51.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059690.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059690.D (-1807) (-)

7.64



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059878.D

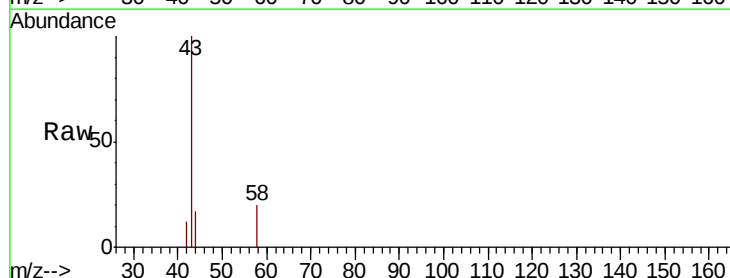
Acq: 27 Jan 2020 17:26

Tgt Ion: 43 Resp: 4379

Ion Ratio Lower Upper

43 100

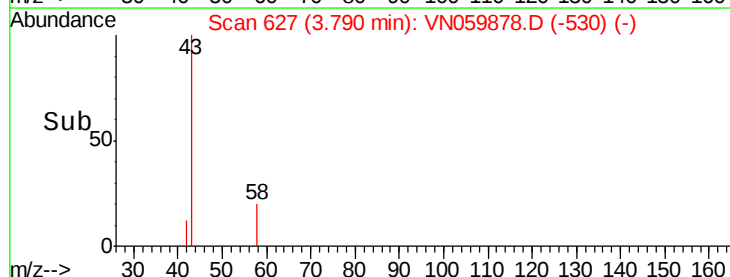
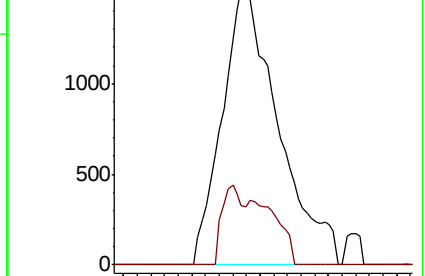
58 20.5 23.6 35.4#

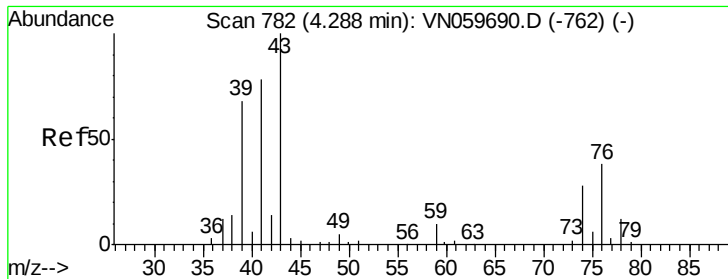


Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-593) (-)

3.79

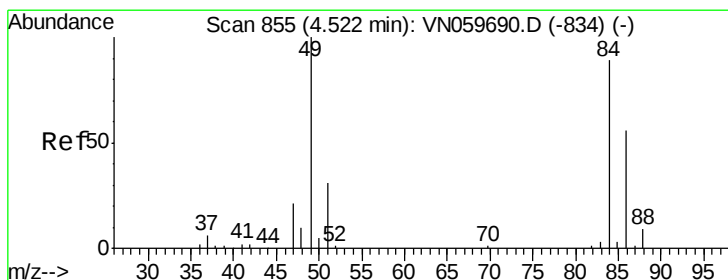
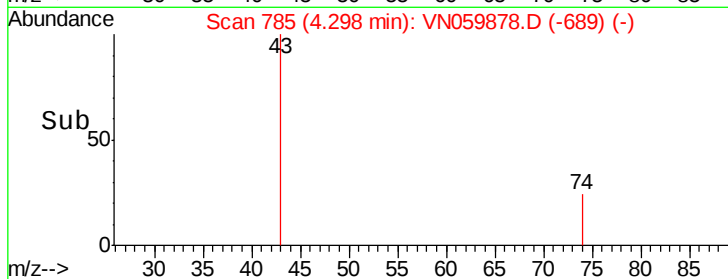
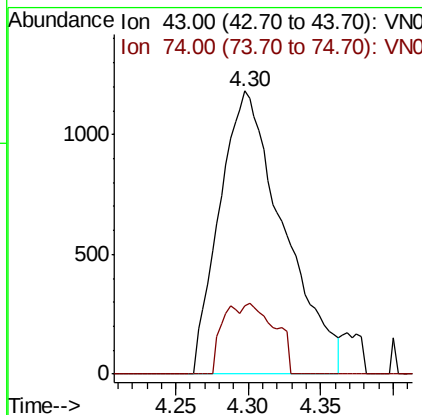
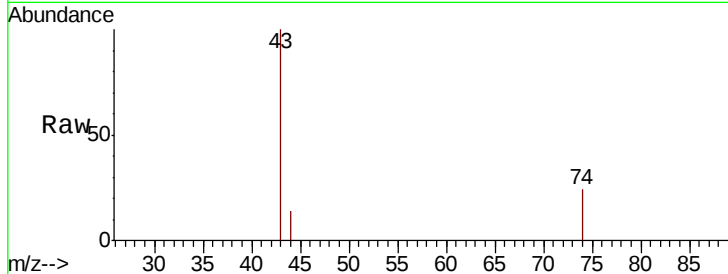




#18
Methyl Acetate
Concen: 1.319 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

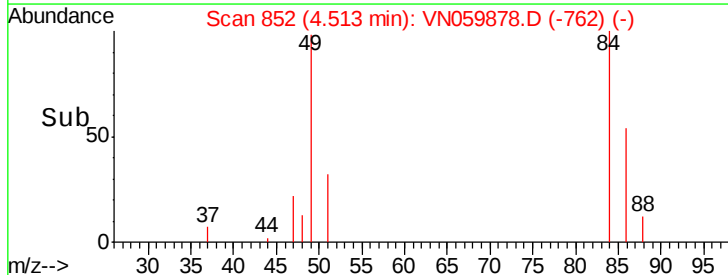
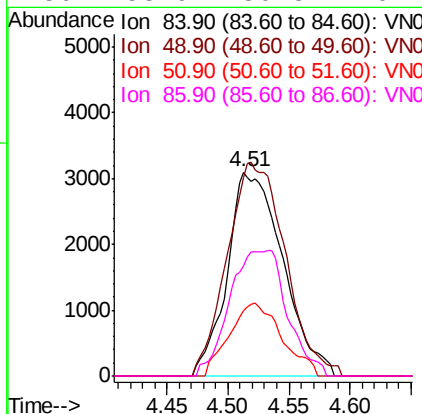
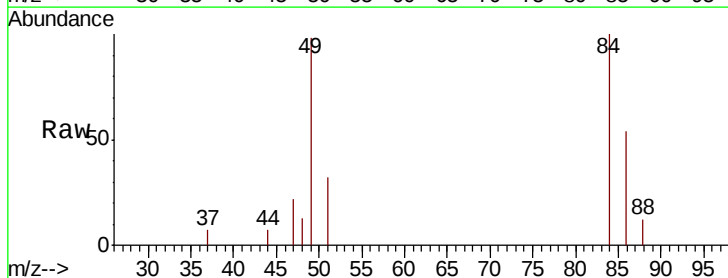
Instrument :
MSVOA_N
ClientSampled :

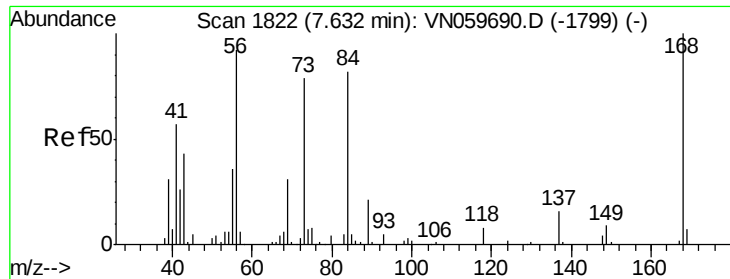
Tot Ion: 43 Resp: 3629
Ion Ratio Lower Upper
43 100
74 7.6 17.5 26.3#



#20
Methylene Chloride
Concen: 3.377 ug/l
RT: 4.51 min Scan# 852
Delta R.T. -0.01 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

Tgt Ion: 84 Resp: 9770
Ion Ratio Lower Upper
84 100
49 97.8 106.6 160.0#
51 32.2 31.9 47.9
86 53.9 50.8 76.2

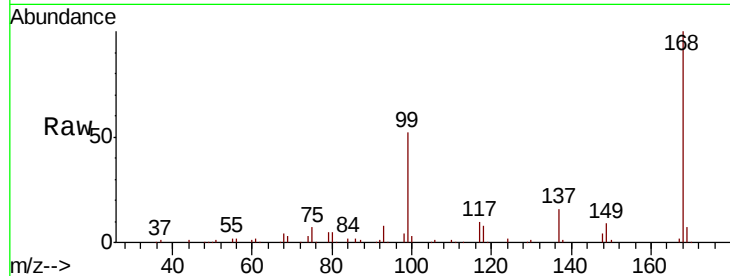




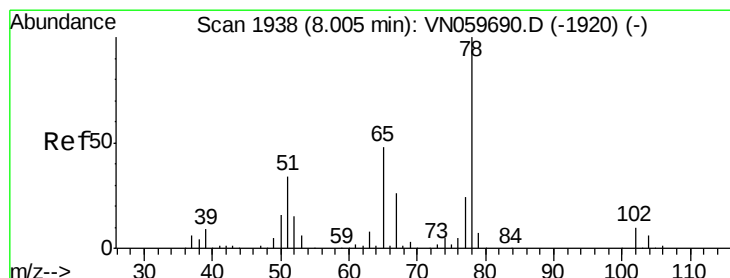
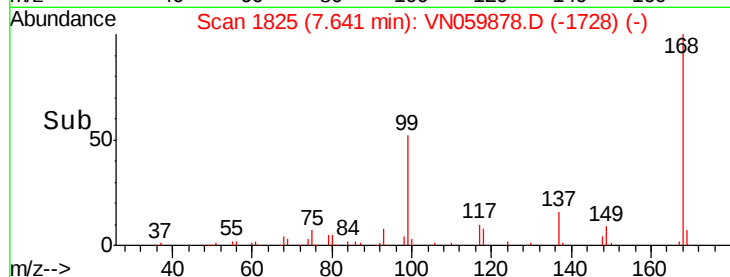
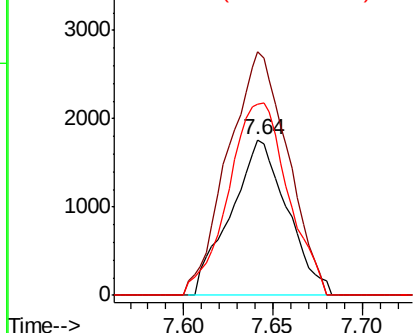
#31
Cyclohexane
Concen: 1.116 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3889
Ion Ratio Lower Upper
56 100
69 156.7 26.5 39.7#
84 123.4 65.3 97.9#

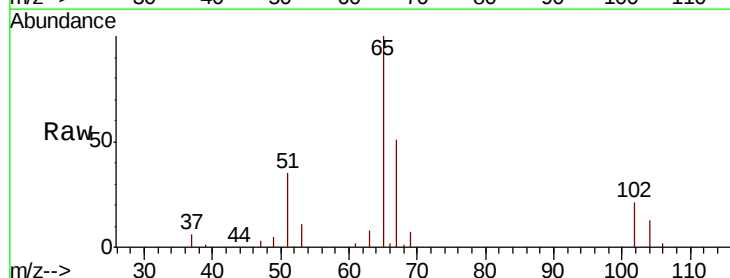


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

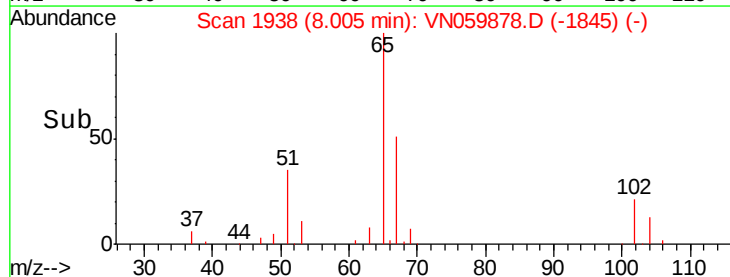
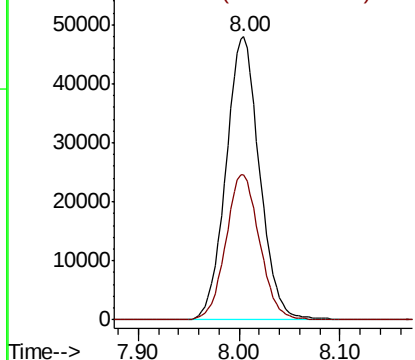


#33
1,2-Dichloroethane-d4
Concen: 47.143 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

Tgt Ion: 65 Resp: 111063
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

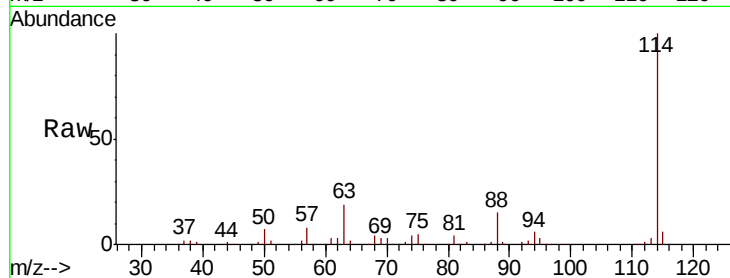




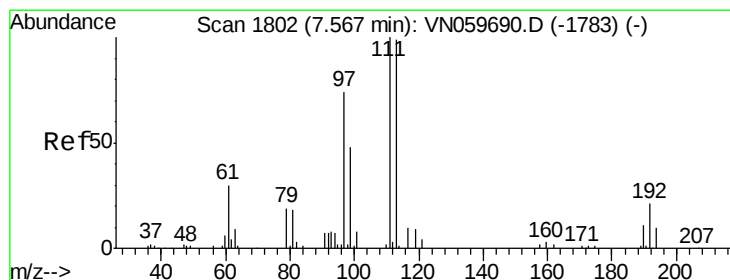
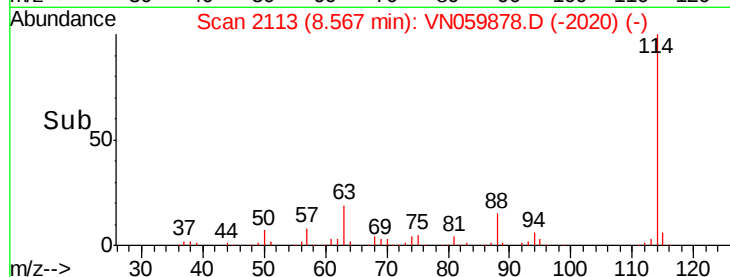
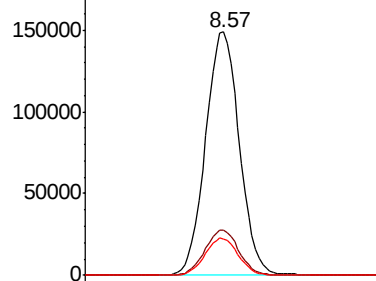
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 315985
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 43.6
 88 15.1 0.0 31.4

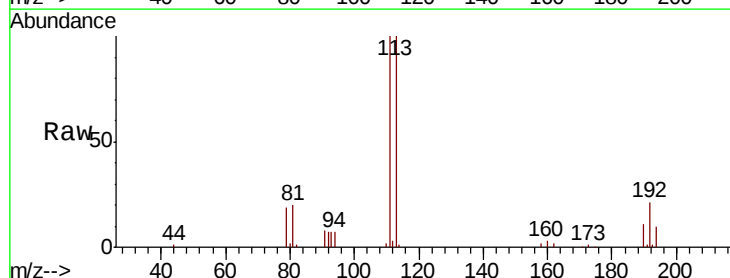


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

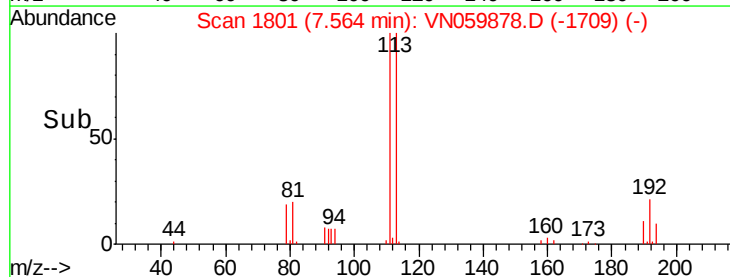
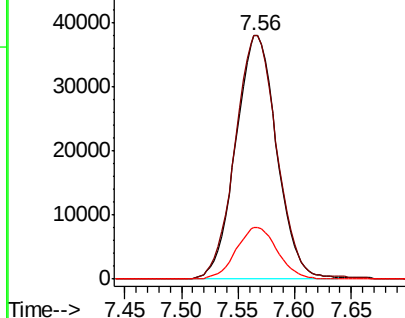


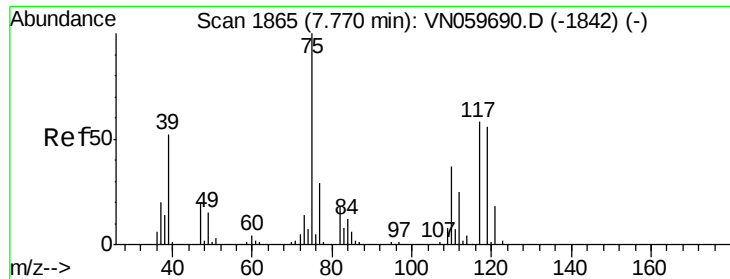
#35
 Dibromofluoromethane
 Concen: 50.905 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

Tgt Ion:113 Resp: 95924
 Ion Ratio Lower Upper
 113 100
 111 102.1 83.5 125.3
 192 21.3 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

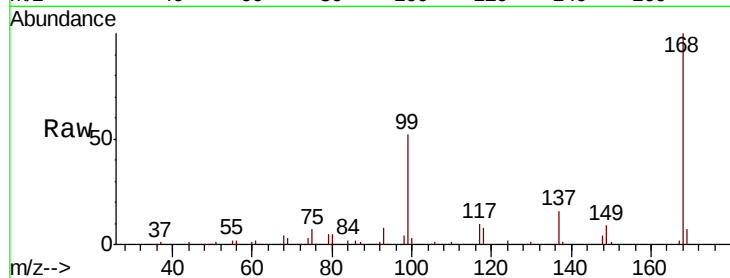




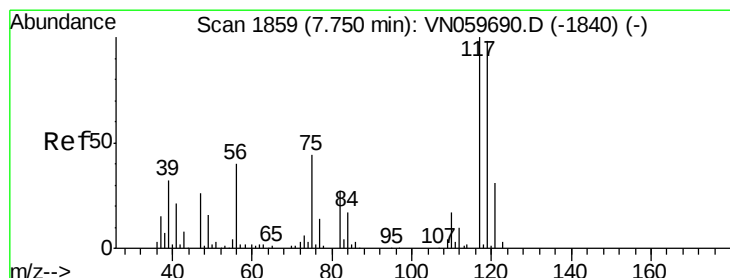
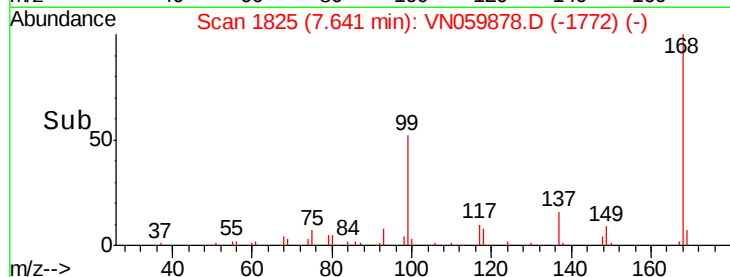
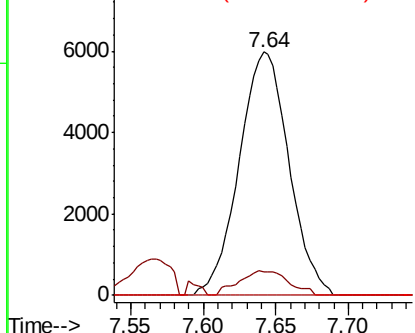
#36
 1,1-Dichloropropene
 Concen: 5.175 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 14240
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.6 49.7#
 77 0.0 25.1 37.7#

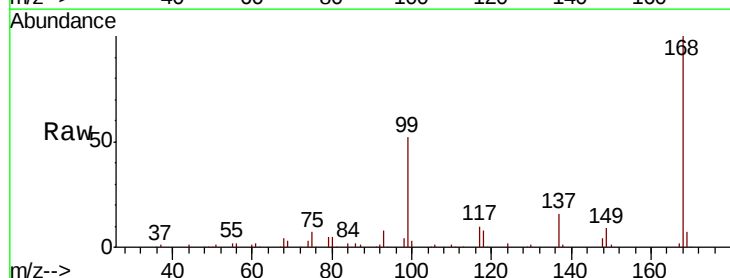


Abundance Ion 74.90 (74.60 to 75.60): VN059878.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059878.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059878.D (-1772) (-)

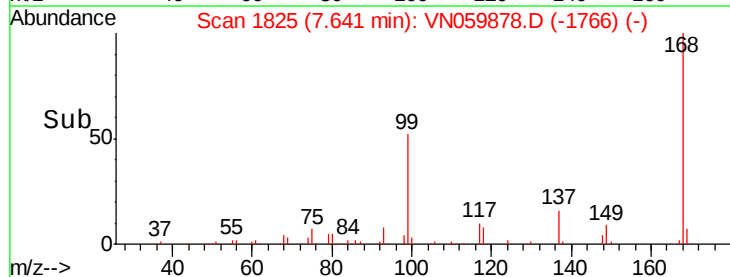
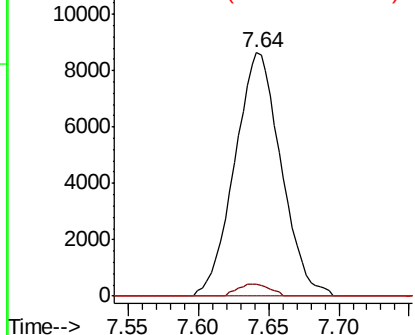


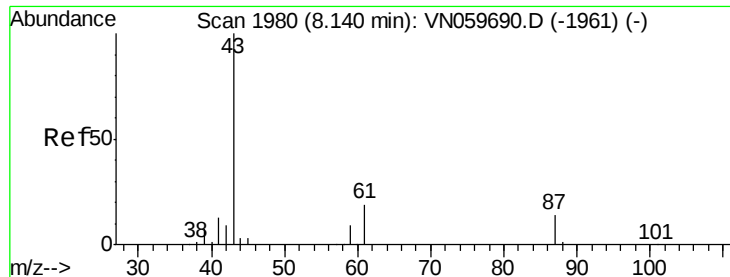
#38
 Carbon Tetrachloride
 Concen: 6.631 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

Tgt Ion: 117 Resp: 19849
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.5 114.7#
 121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059878.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059878.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059878.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 8.881 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

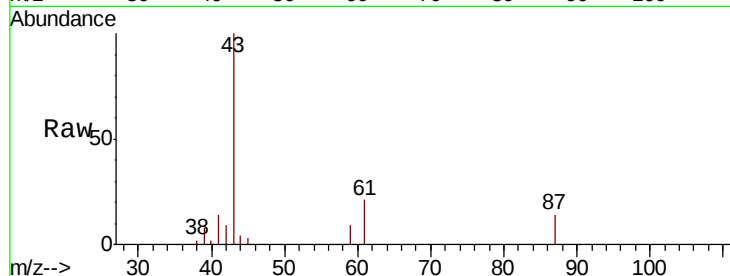
Tot Ion: 43 Resp: 39423

Ion Ratio Lower Upper

43 100

61 20.7 20.2 30.2

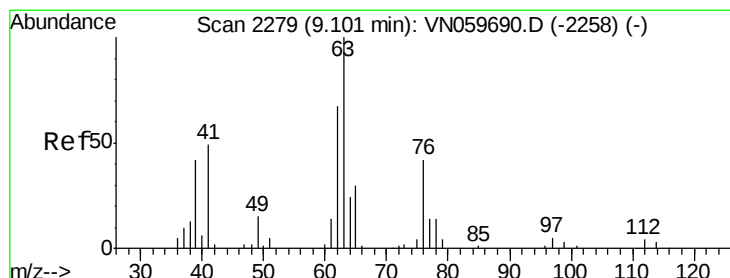
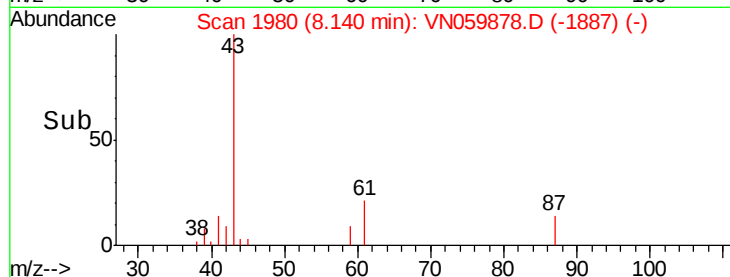
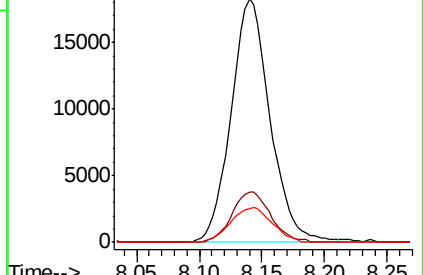
87 15.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059690.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059690.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.364 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059878.D

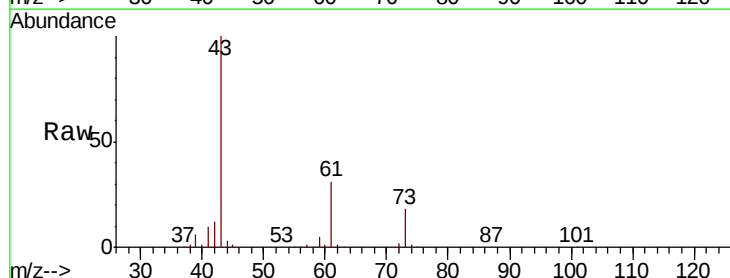
Acq: 27 Jan 2020 17:26

Tgt Ion: 63 Resp: 740

Ion Ratio Lower Upper

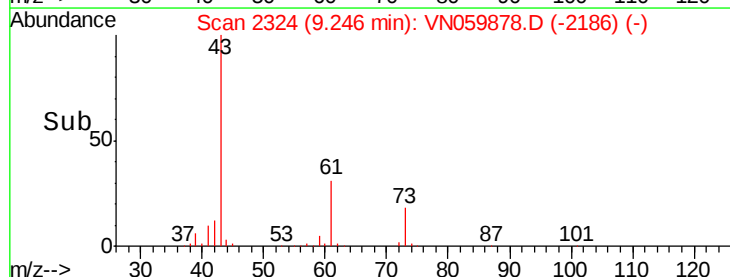
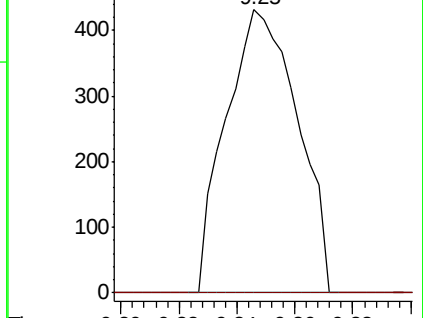
63 100

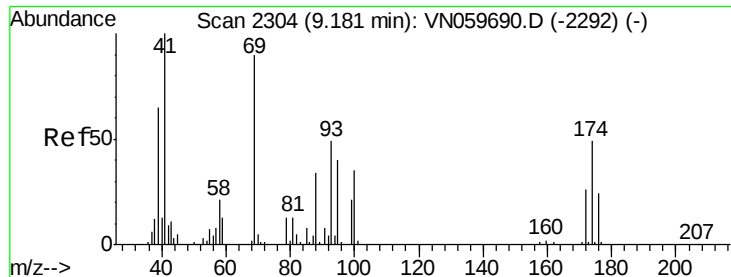
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059690.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN059690.D (-2258) (-)

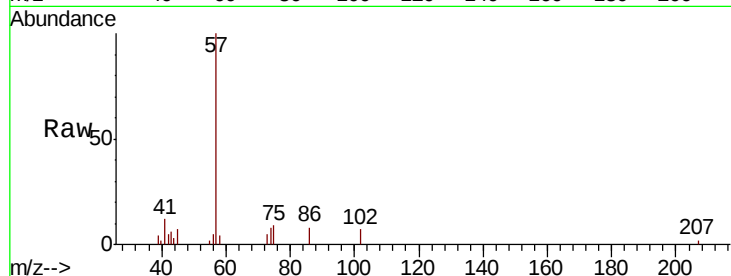




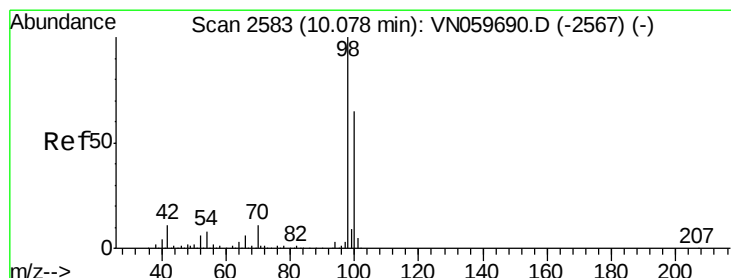
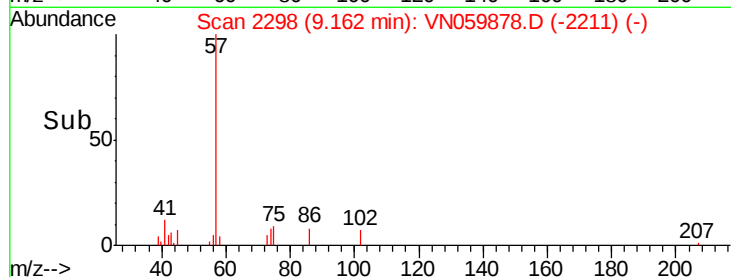
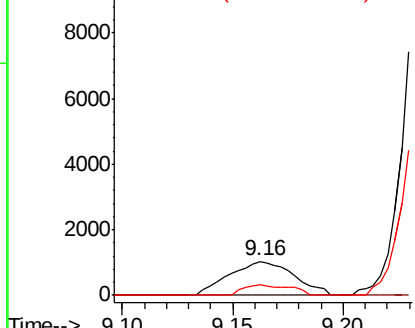
#48
Methvl methacrylate
Concen: 1.064 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2113
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

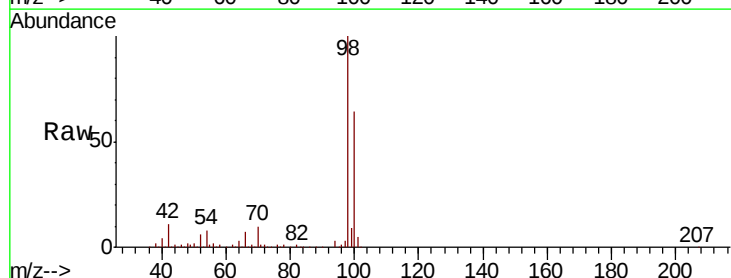


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

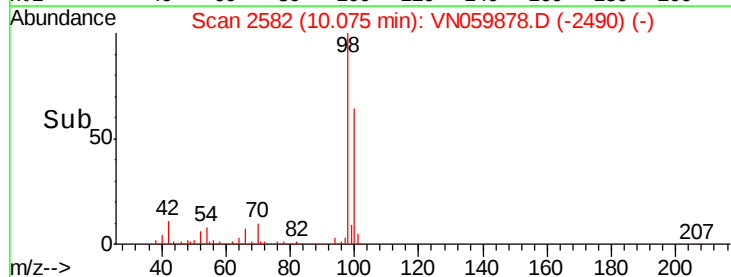
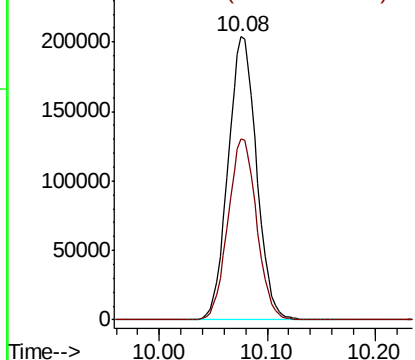


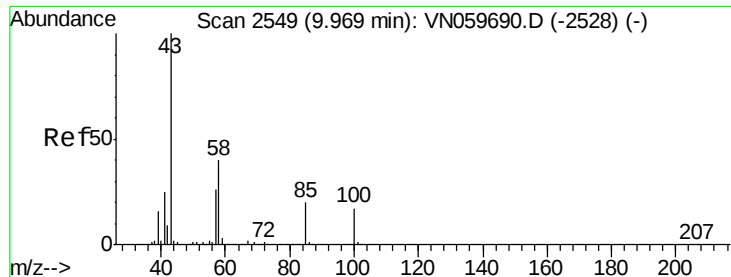
#50
Toluene-d8
Concen: 51.320 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

Tgt Ion: 98 Resp: 374687
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



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

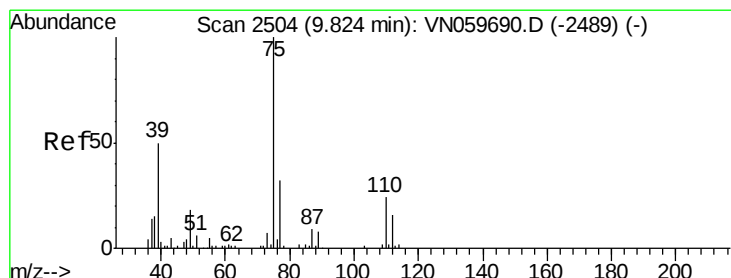
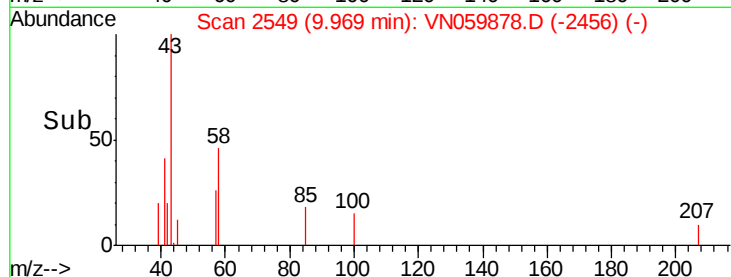
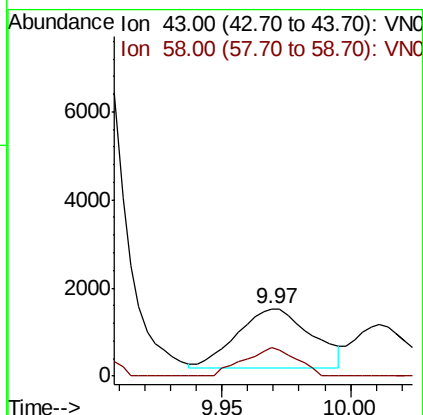
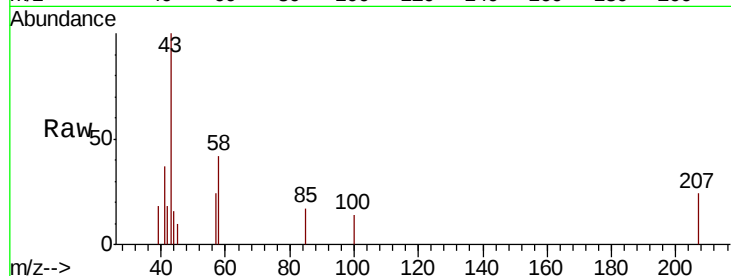




#51
 4-Methyl-2-Pentanone
 Concen: 1.067 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

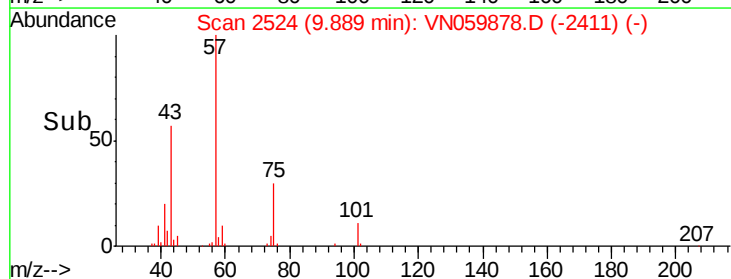
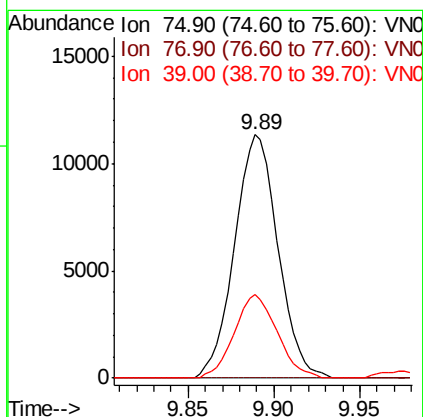
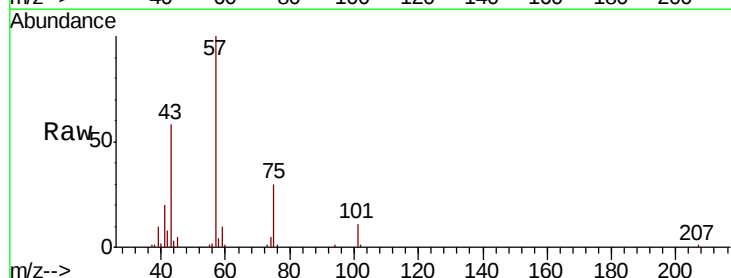
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 43 Resp: 2738
 Ion Ratio Lower Upper
 43 100
 58 33.4 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.887 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

Tgt Ion: 75 Resp: 19965
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 34.2 46.1 69.1#

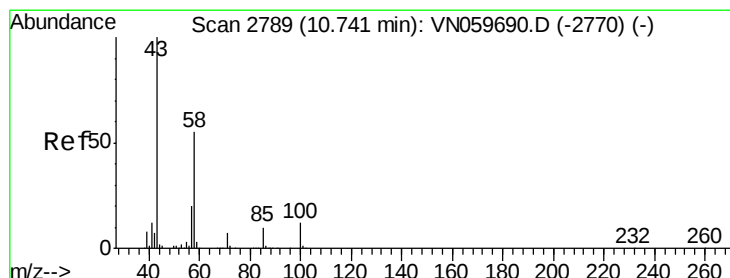
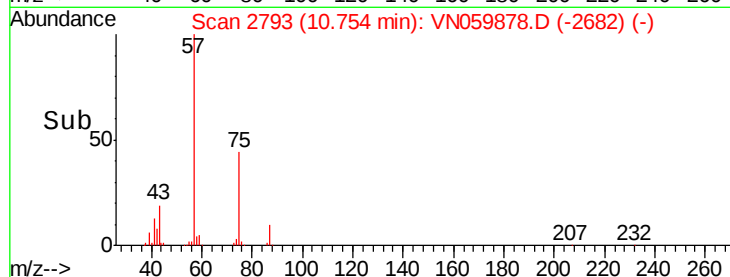
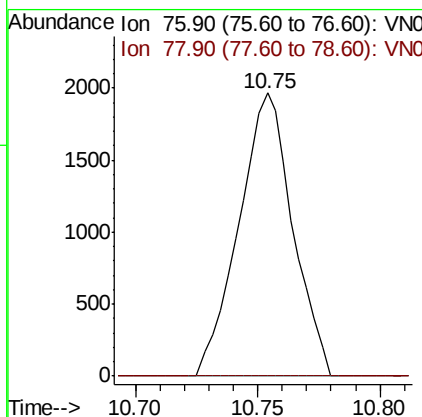
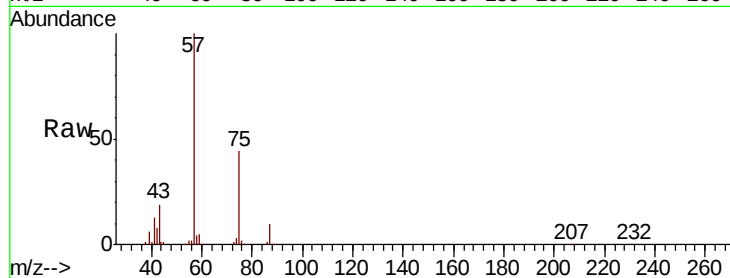




#57
 1,3-Dichloropropane
 Concen: 0.920 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

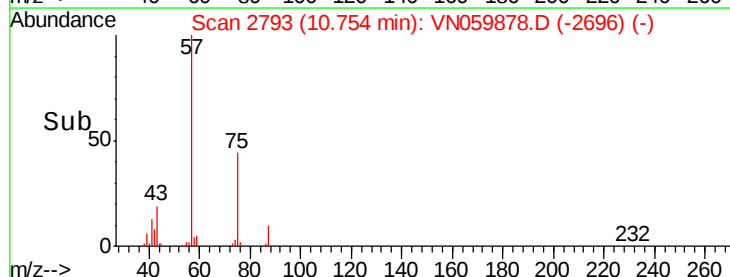
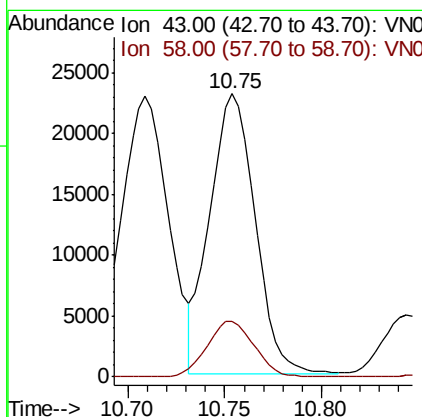
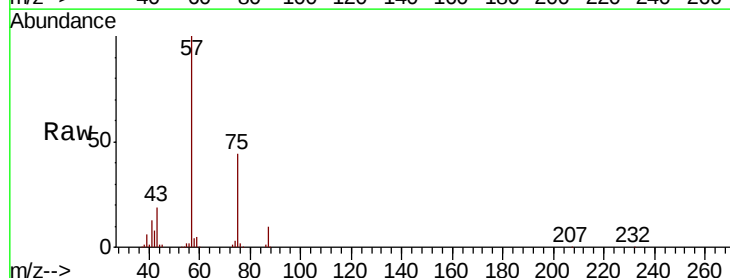
Instrument :
 MSVOA_N
 ClientSampleId :

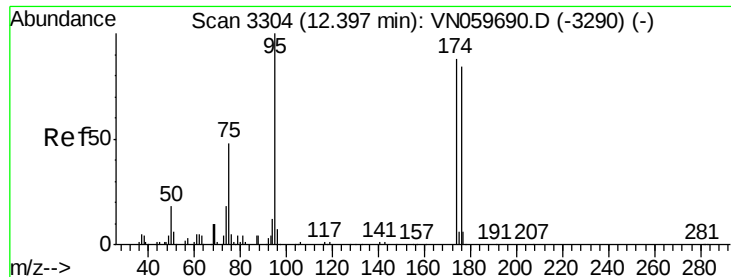
Tot Ion: 76 Resp: 2999
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 20.022 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059878.D
 Acq: 27 Jan 2020 17:26

Tgt Ion: 43 Resp: 37851
 Ion Ratio Lower Upper
 43 100
 58 20.4 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 47.645 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

Instrument :

MSVOA_N

ClientSampled :

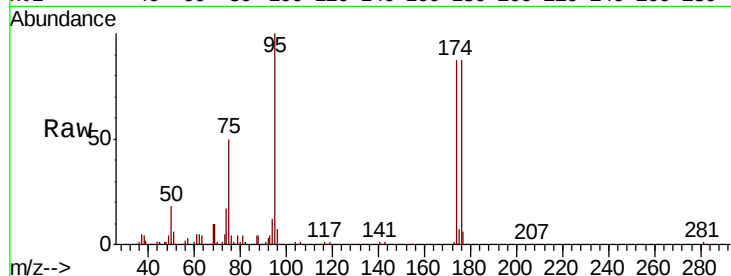
Tot Ion: 95 Resp: 125402

Ion Ratio Lower Upper

95 100

174 88.4 0.0 151.4

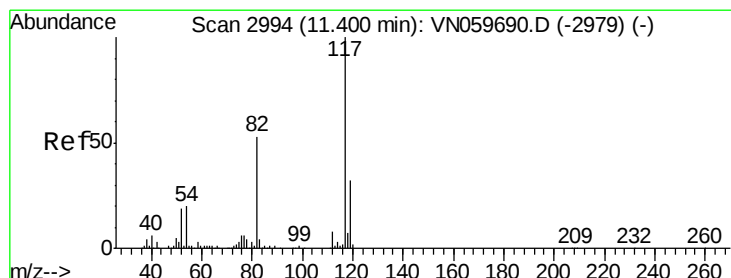
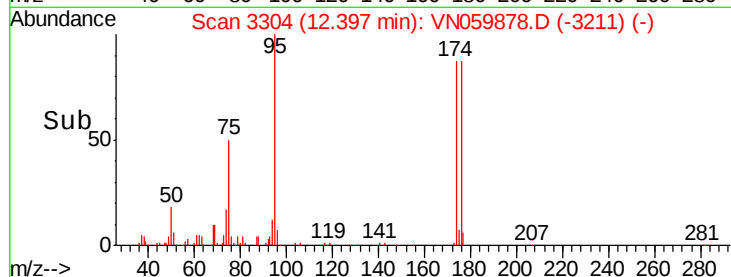
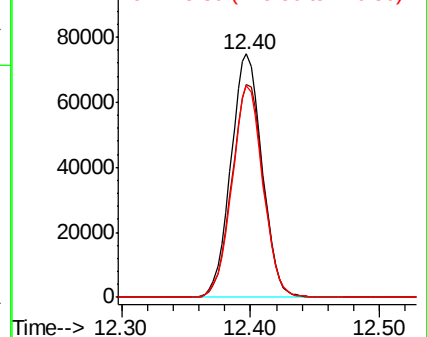
176 86.3 0.0 146.0



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: VN059878.D

Acq: 27 Jan 2020 17:26

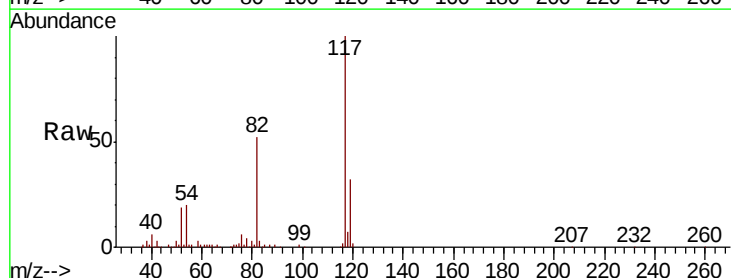
Tgt Ion: 117 Resp: 281624

Ion Ratio Lower Upper

117 100

82 52.4 45.9 68.9

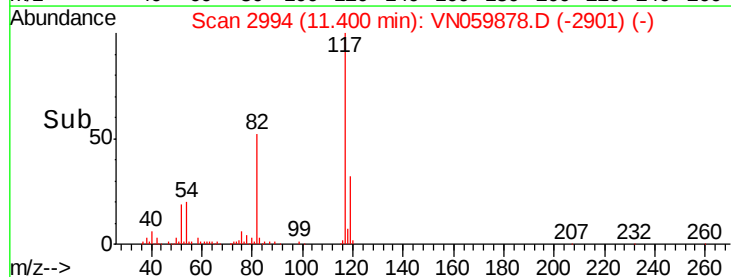
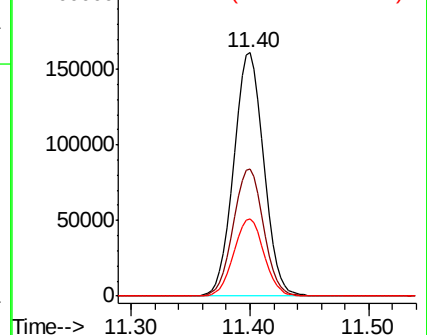
119 32.0 25.5 38.3

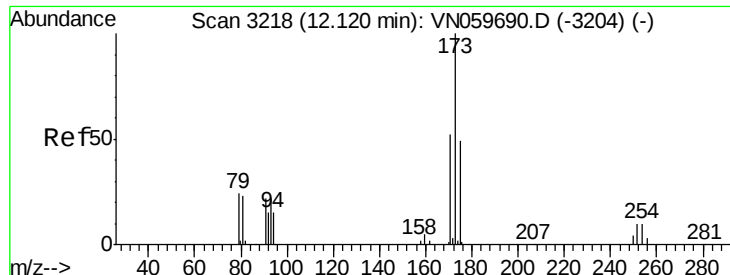


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

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

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





#71

Bromoform

Concen: 0.448 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

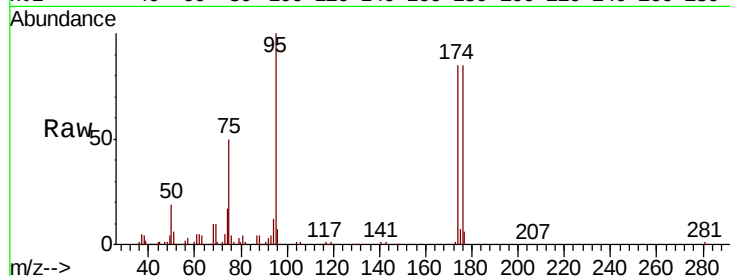
Tot Ion:173 Resp: 767

Ion Ratio Lower Upper

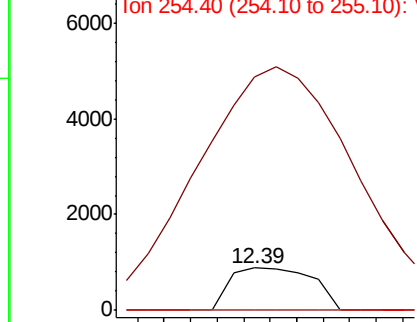
173 100

175 944.7 23.8 71.4#

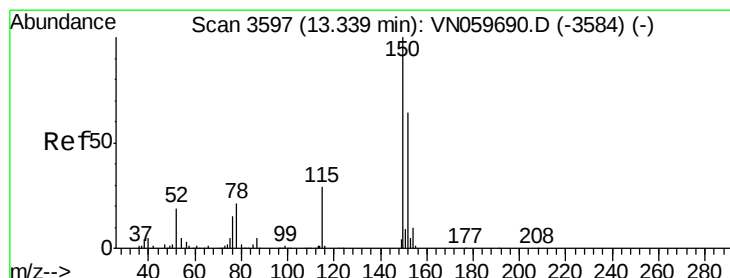
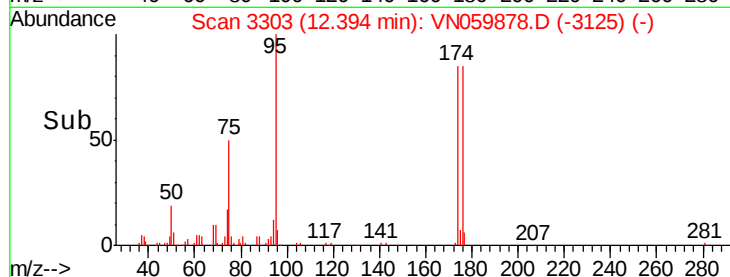
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



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: VN059878.D

Acq: 27 Jan 2020 17:26

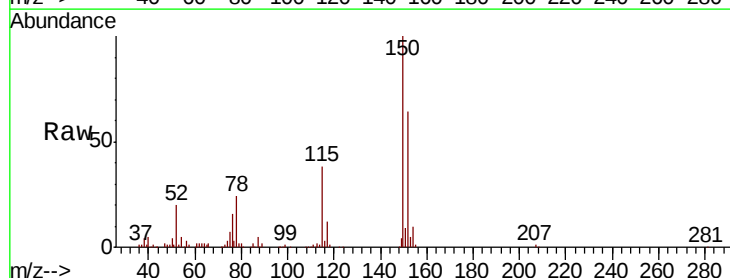
Tgt Ion:152 Resp: 116518

Ion Ratio Lower Upper

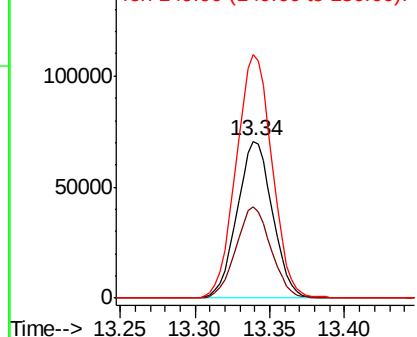
152 100

115 57.4 30.3 90.9

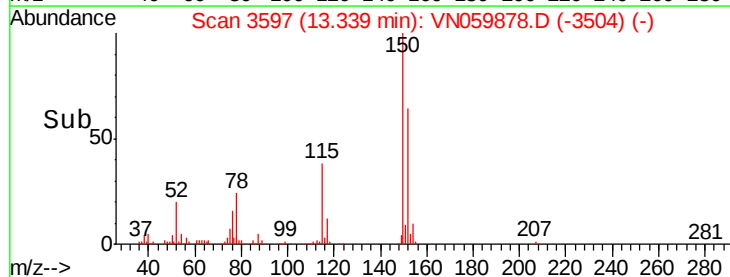
150 157.8 0.0 345.2

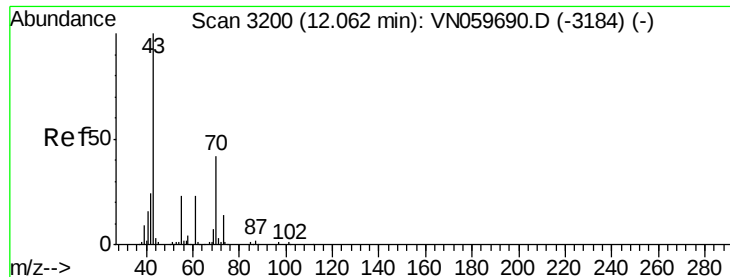


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#74

N-amyl acetate

Concen: 0.606 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2010

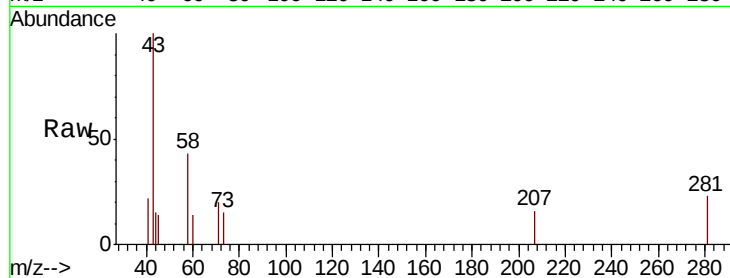
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

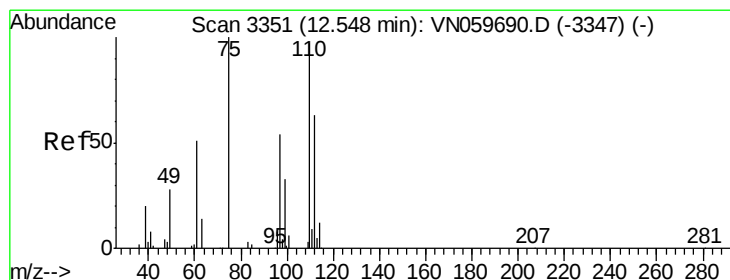
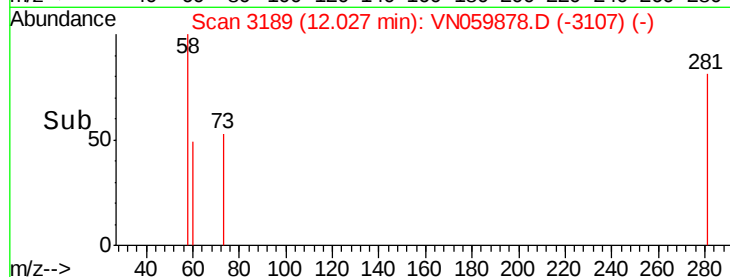
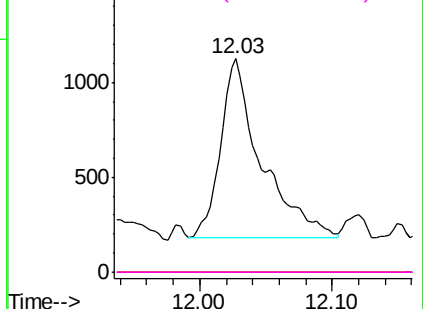


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 32.144 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059878.D

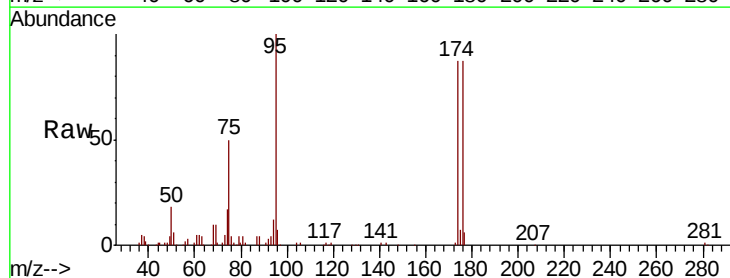
Acq: 27 Jan 2020 17:26

Tgt Ion: 75 Resp: 63031

Ion Ratio Lower Upper

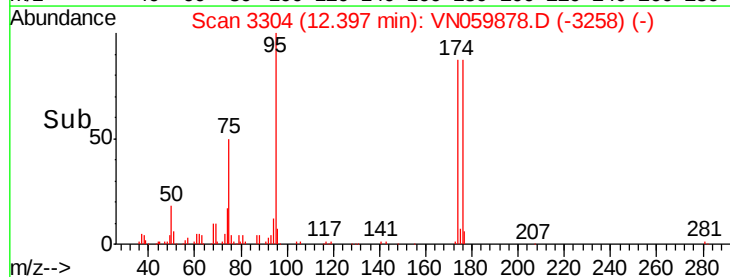
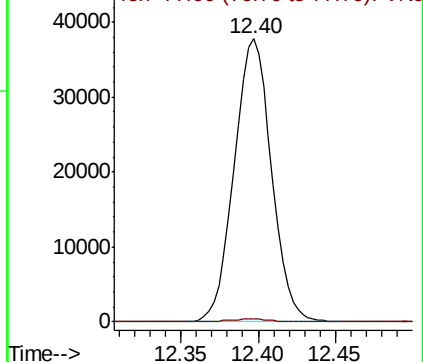
75 100

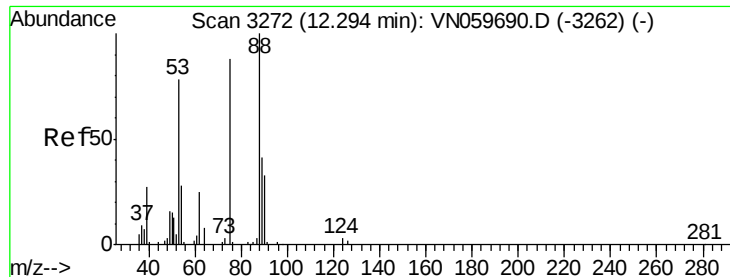
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 69.030 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

Instrument :

MSVOA_N

ClientSampled :

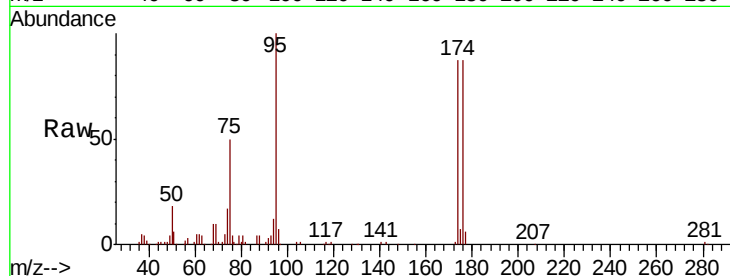
Tot Ion: 75 Resp: 63031

Ion Ratio Lower Upper

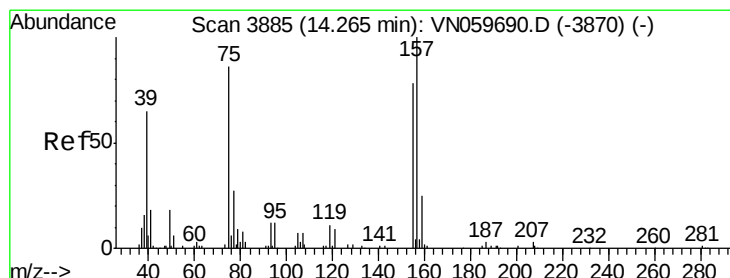
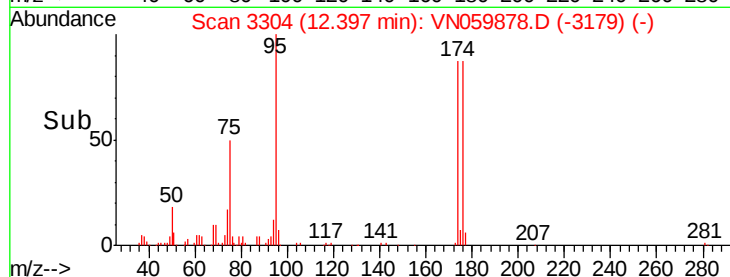
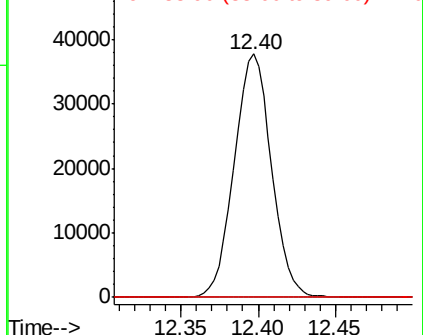
75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN059878.D

Acq: 27 Jan 2020 17:26

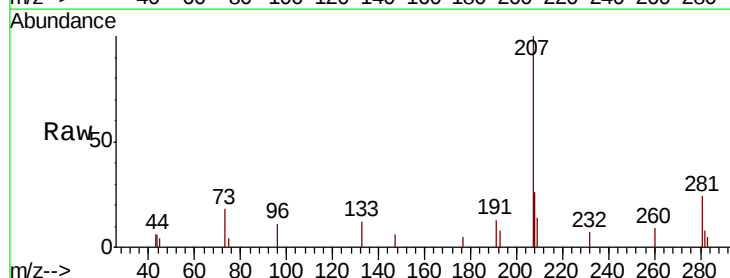
Tgt Ion: 75 Resp: 97

Ion Ratio Lower Upper

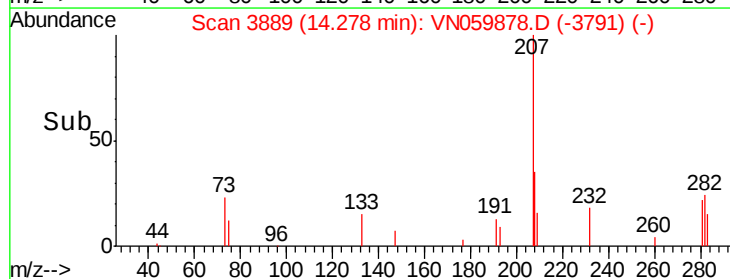
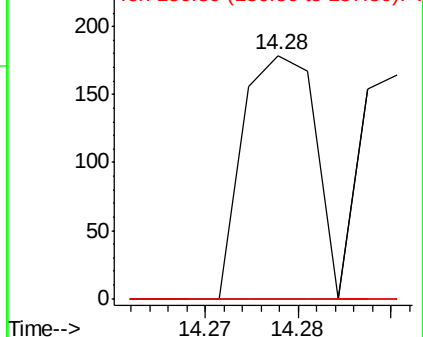
75 100

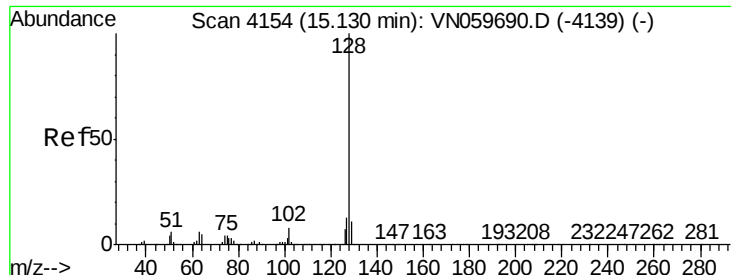
155 0.0 37.0 110.9#

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





#95
Naphthalene
Concen: 0.254 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059878.D
Acq: 27 Jan 2020 17:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	3.8	10.4	15.6#
129	5.8	8.6	12.8#

