

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059918.D
 Acq On : 29 Jan 2020 17:31
 Operator : JC/MD
 Sample : PB126412ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:04:10 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	205509	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	312481	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	121368	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	109923	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
35) Dibromofluoromethane	7.57	113	94104	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	10.08	98	372881	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.40	95	127885	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	

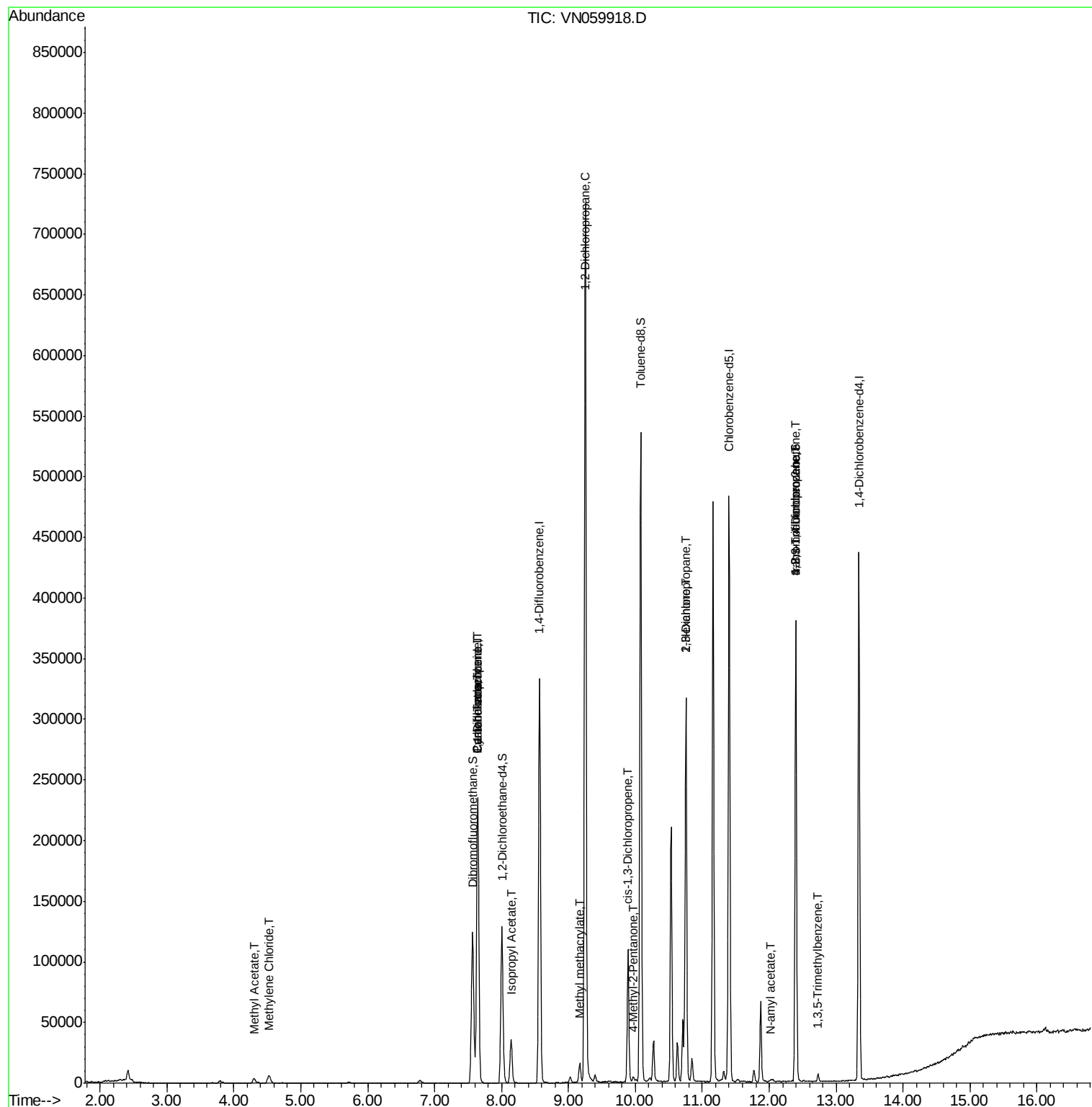
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	3599	Below Cal	#	89
18) Methyl Acetate	4.30	43	7079	2.655	ug/l	95
20) Methylene Chloride	4.53	84	5399	1.356	ug/l #	81
31) Cyclohexane	7.64	56	3724	1.103	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14282	5.248	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18768	6.340	ug/l #	16
43) Isopropyl Acetate	8.14	43	42184	9.609	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	910	0.453	ug/l #	44
48) Methyl methacrylate	9.16	41	2291	1.167	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2606	1.027	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	20877	6.225	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3407	1.057	ug/l #	42
59) 2-Hexanone	10.75	43	46005	24.608	ug/l #	54
74) N-amyl acetate	12.03	43	1638	0.474	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	65148	31.896	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3817	0.510	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	65148	68.497	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	60	Below Cal	#	6

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
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: VN059918.D

Acq: 29 Jan 2020 17:31

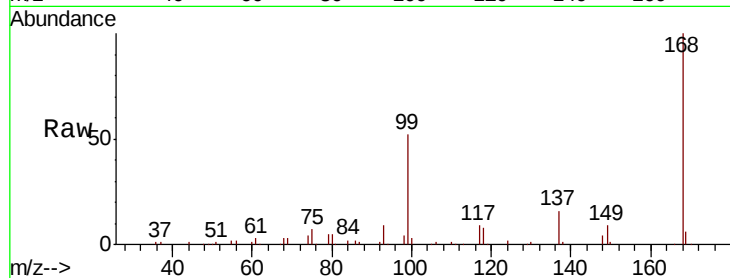
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 205509

Ion Ratio Lower Upper

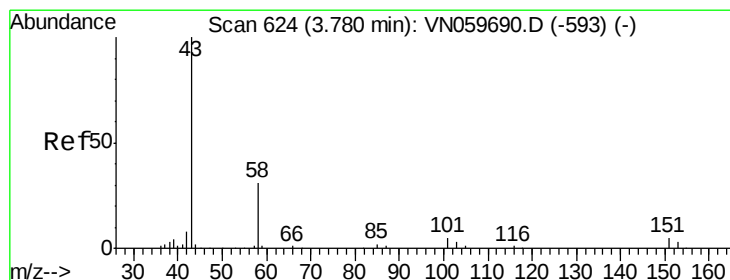
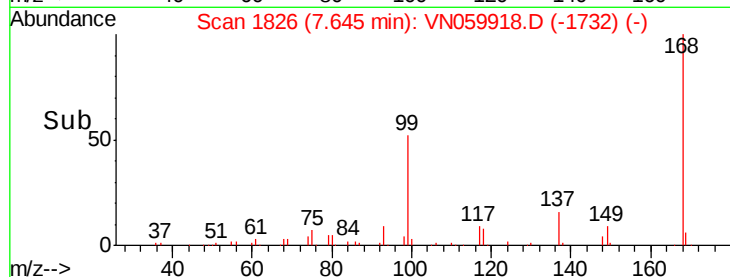
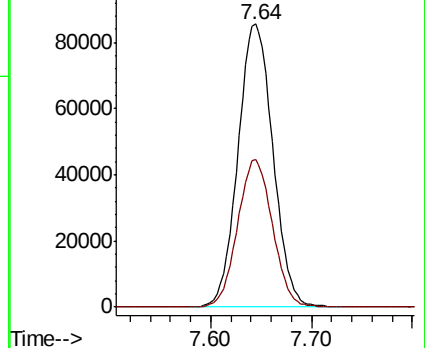
168 100

99 52.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059918.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059918.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 630

Delta R.T. 0.02 min

Lab File: VN059918.D

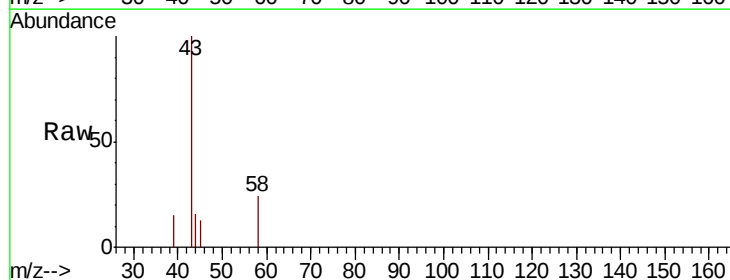
Acq: 29 Jan 2020 17:31

Tgt Ion: 43 Resp: 3599

Ion Ratio Lower Upper

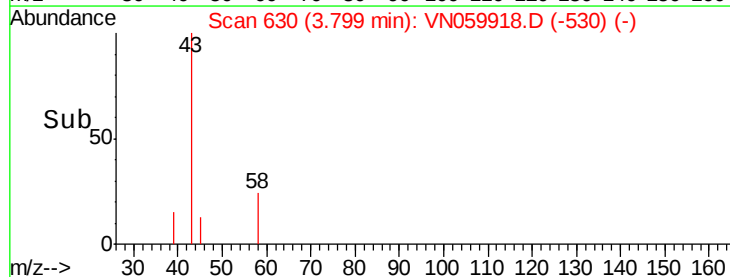
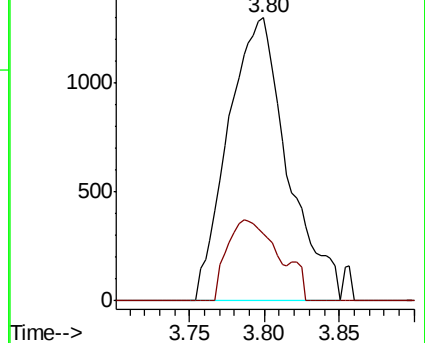
43 100

58 23.6 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VN059918.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059918.D (-530) (-)

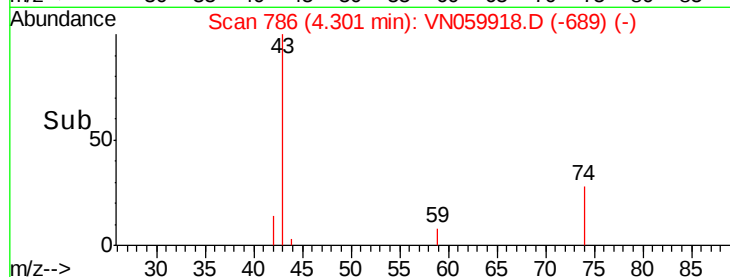
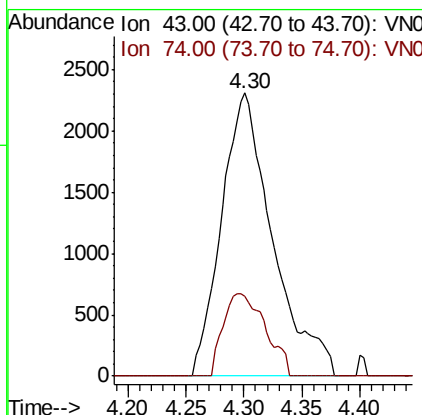
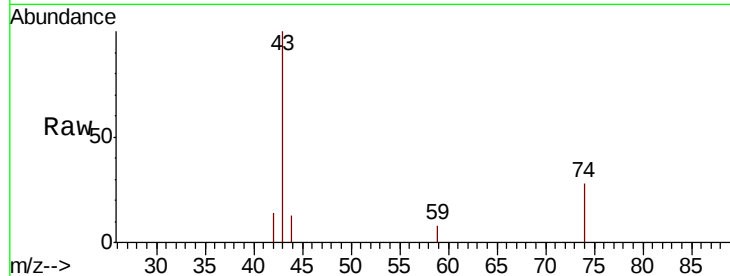




#18
Methvl Acetate
Concen: 2.655 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

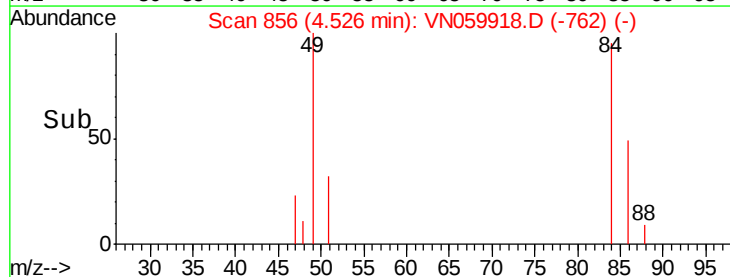
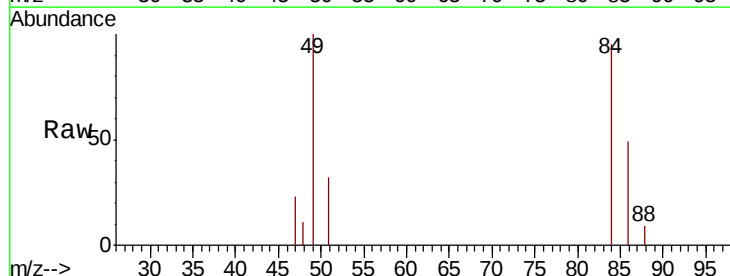
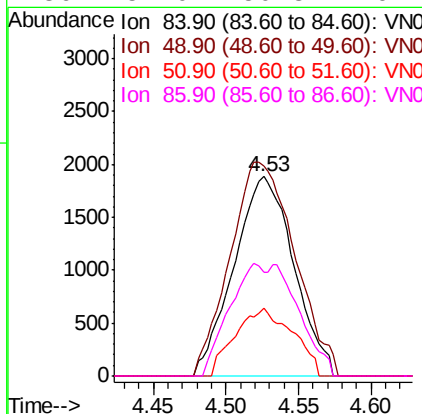
Instrument :
MSVOA_N
ClientSampled :

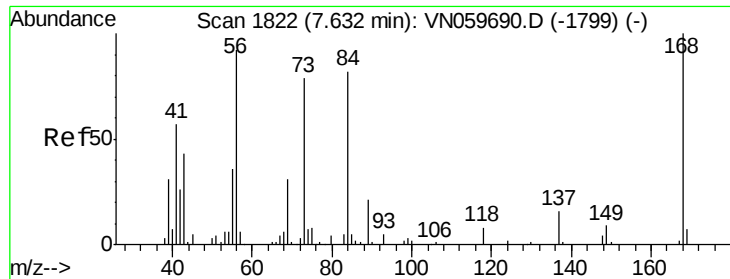
Tot Ion: 43 Resp: 7079
Ion Ratio Lower Upper
43 100
74 24.1 17.5 26.3



#20
Methylene Chloride
Concen: 1.356 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Tgt Ion: 84 Resp: 5399
Ion Ratio Lower Upper
84 100
49 105.6 106.6 160.0#
51 33.8 31.9 47.9
86 52.0 50.8 76.2

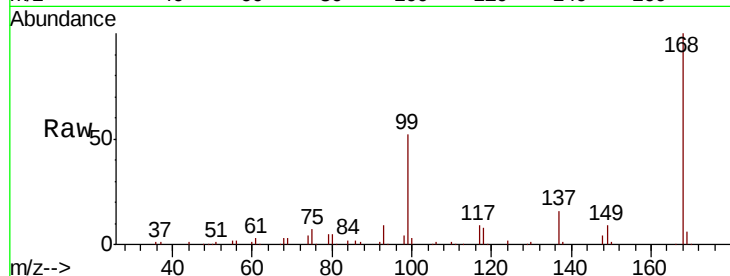




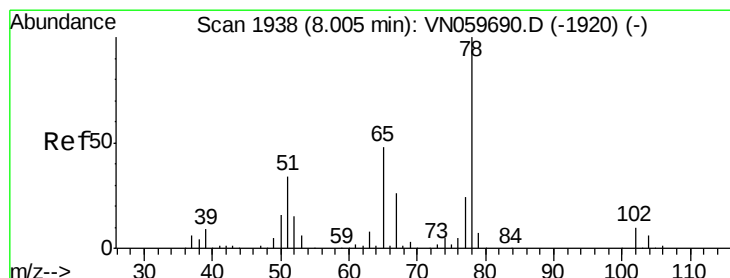
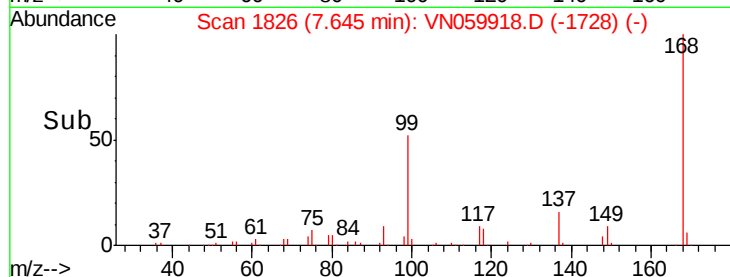
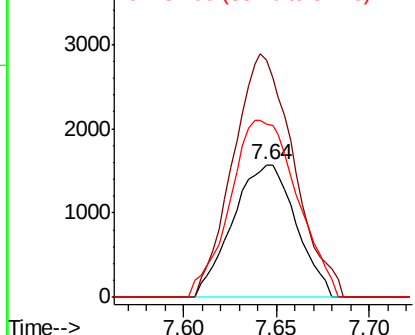
#31
Cyclohexane
Concen: 1.103 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3724
Ion Ratio Lower Upper
56 100
69 179.1 26.5 39.7#
84 131.4 65.3 97.9#

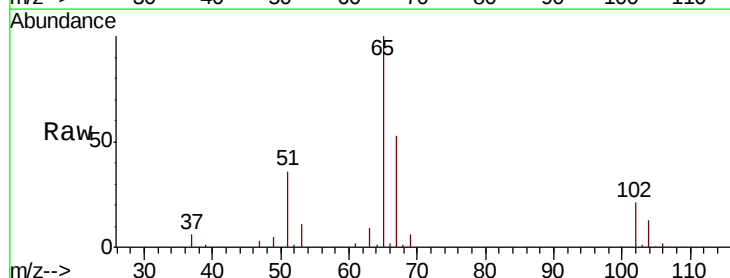


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

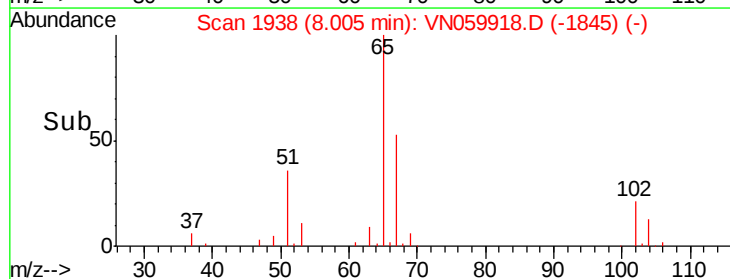
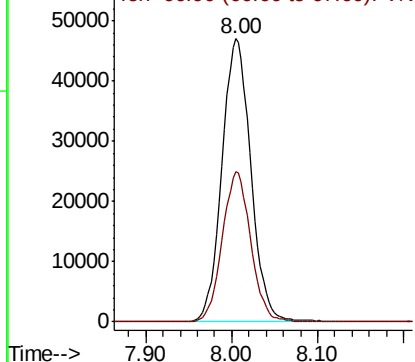


#33
1,2-Dichloroethane-d4
Concen: 48.165 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Tgt Ion: 65 Resp: 109923
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.0



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

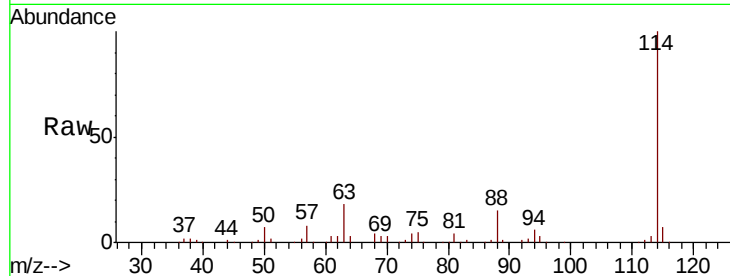




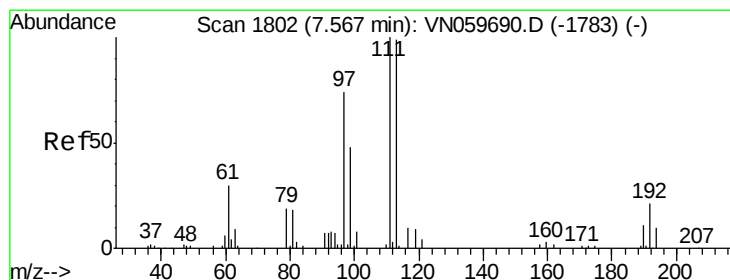
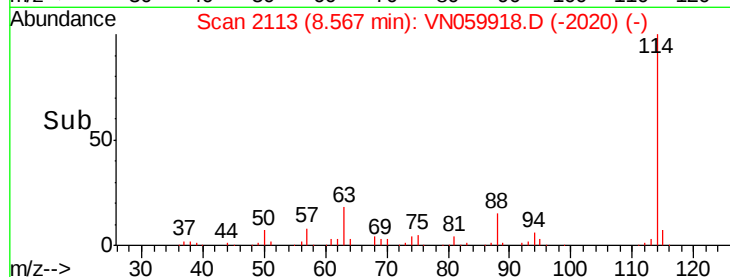
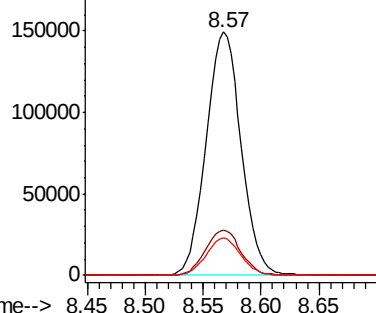
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 312481
Ion Ratio Lower Upper
114 100
63 18.4 0.0 43.6
88 15.2 0.0 31.4

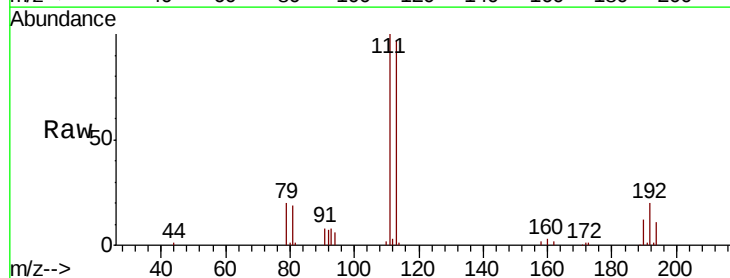


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

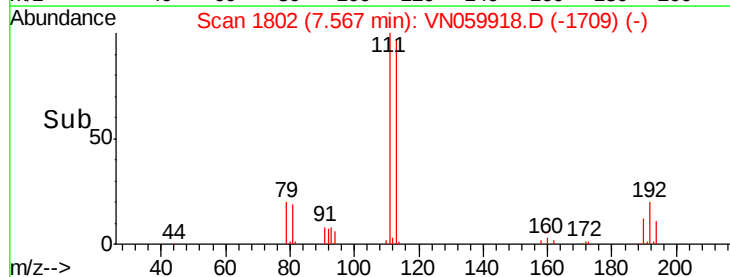
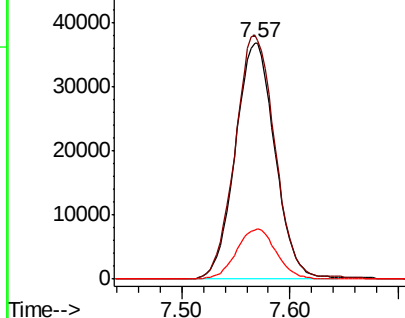


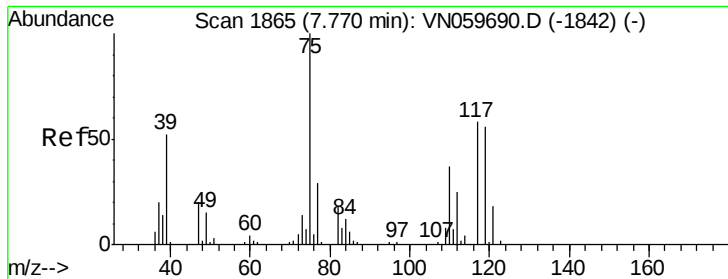
#35
Dibromofluoromethane
Concen: 50.500 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Tgt Ion:113 Resp: 94104
Ion Ratio Lower Upper
113 100
111 103.3 83.5 125.3
192 21.1 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: 5.248 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

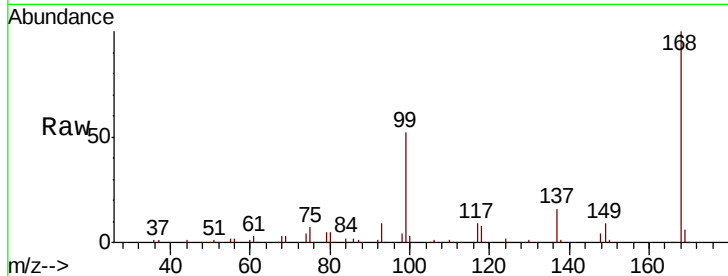
Tot Ion: 75 Resp: 14282

Ion Ratio Lower Upper

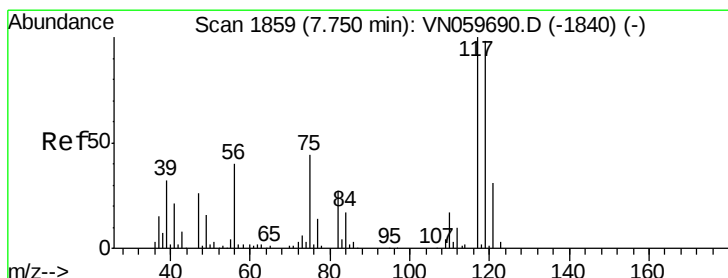
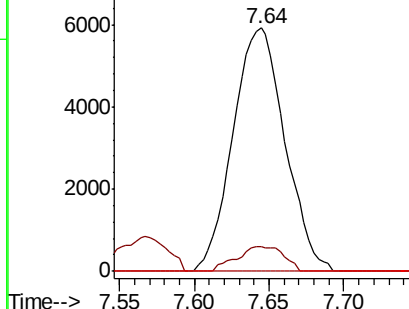
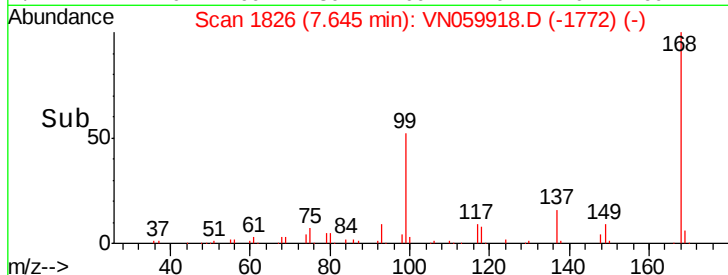
75 100

110 9.2 16.6 49.7#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN059918.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.340 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

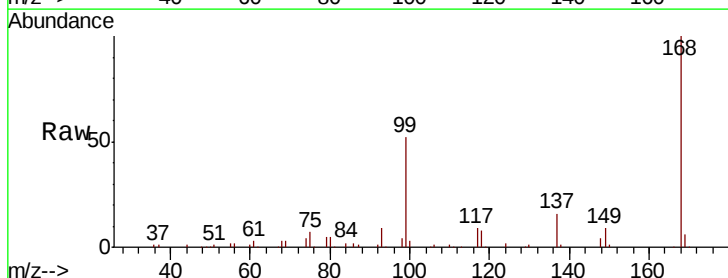
Tgt Ion: 117 Resp: 18768

Ion Ratio Lower Upper

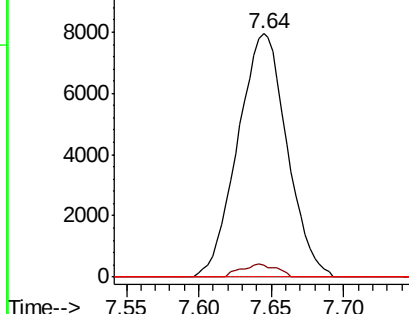
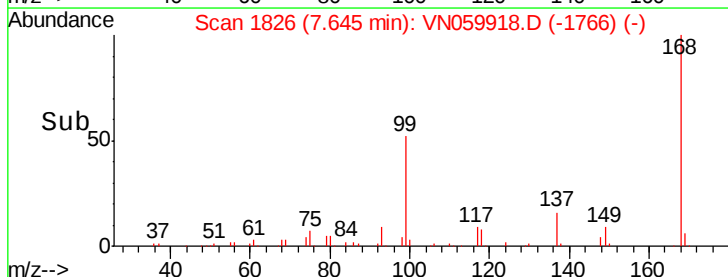
117 100

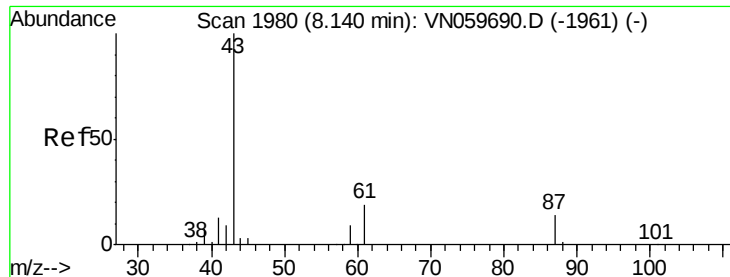
119 4.8 76.5 114.7#

121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059918.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 9.609 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

ClientSampled :

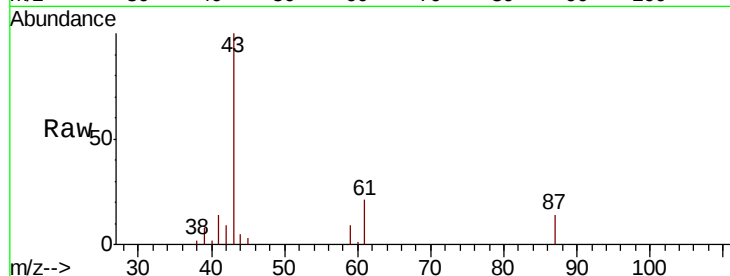
Tot Ion: 43 Resp: 42184

Ion Ratio Lower Upper

43 100

61 21.1 20.2 30.2

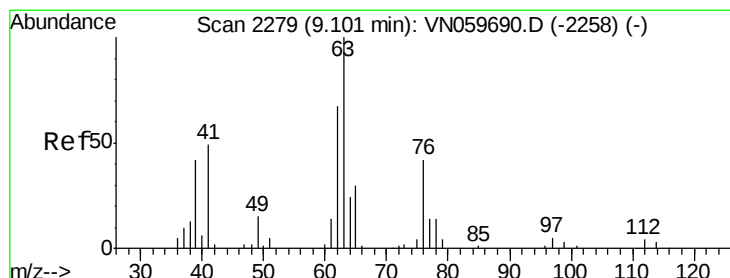
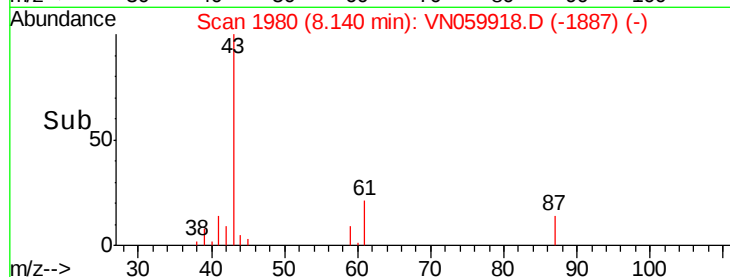
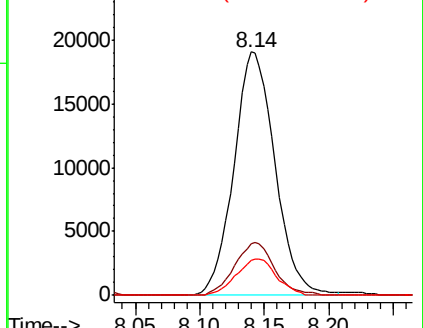
87 14.6 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059918.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059918.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059918.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.453 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059918.D

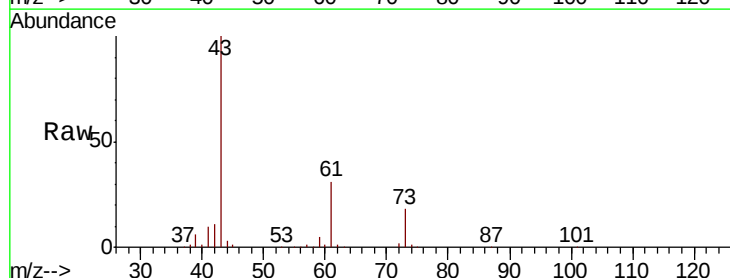
Acq: 29 Jan 2020 17:31

Tgt Ion: 63 Resp: 910

Ion Ratio Lower Upper

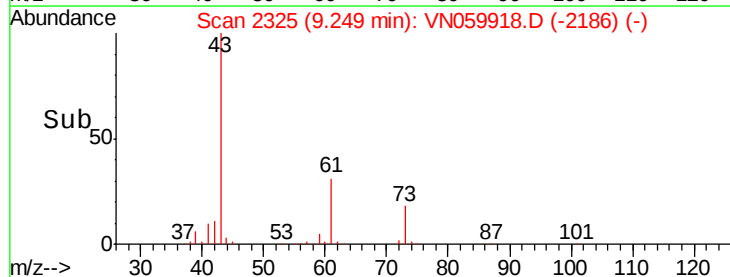
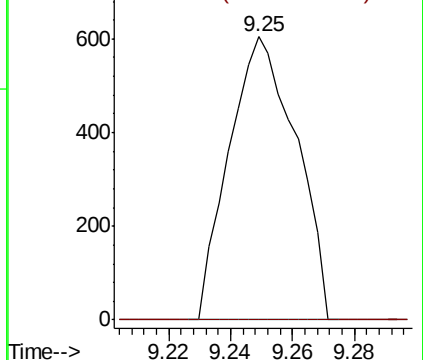
63 100

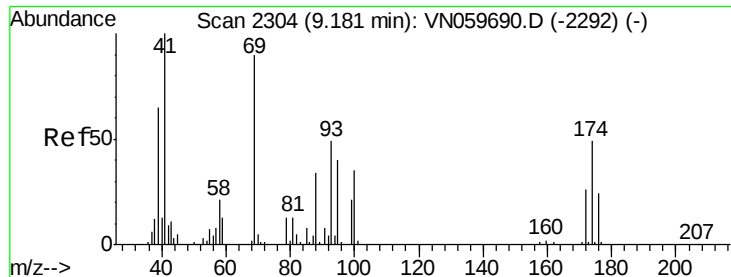
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059918.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059918.D (-2186) (-)

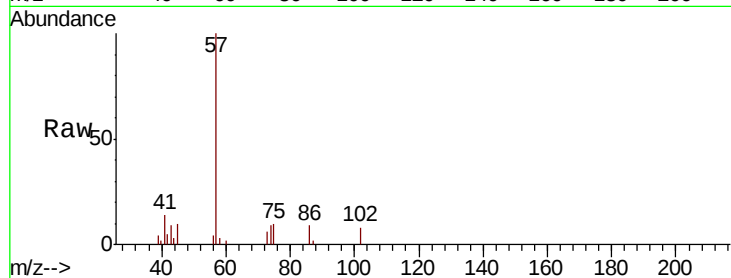




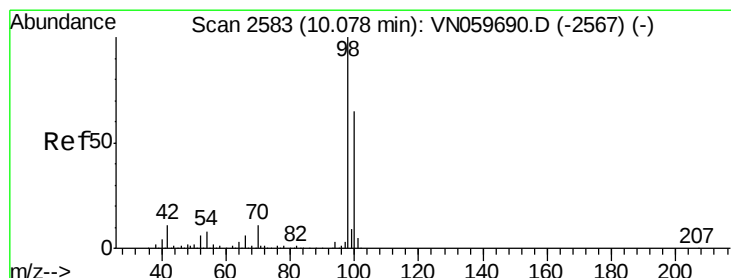
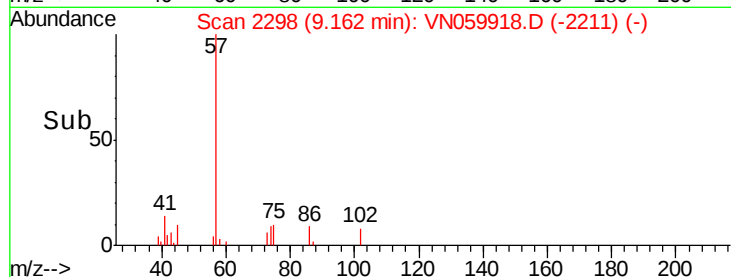
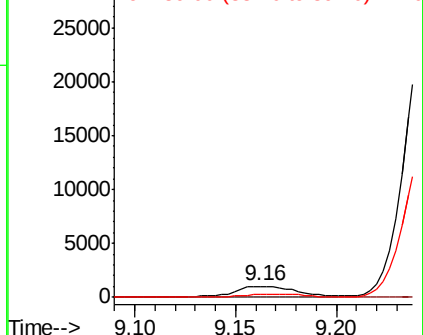
#48
Methvl methacrylate
Concen: 1.167 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2291
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

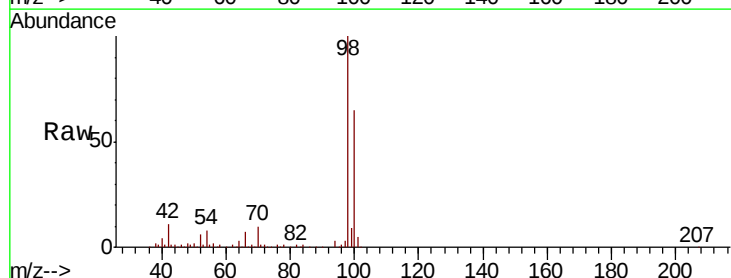


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

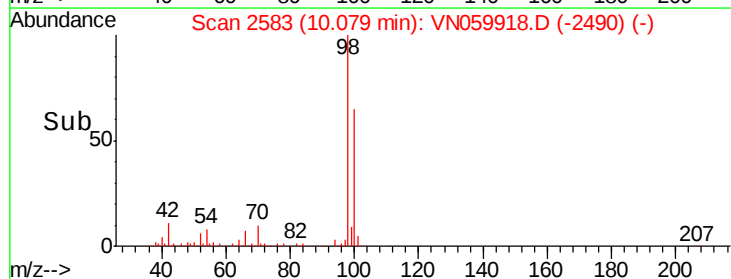
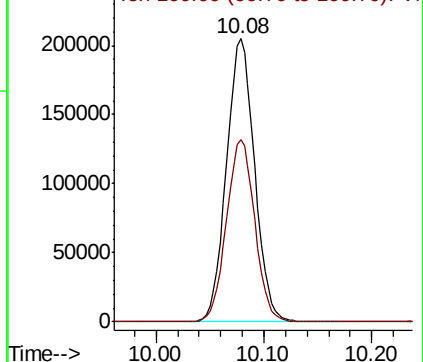


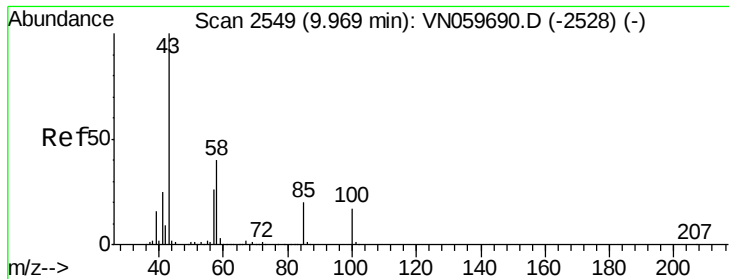
#50
Toluene-d8
Concen: 51.646 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059918.D
Acq: 29 Jan 2020 17:31

Tgt Ion: 98 Resp: 372881
Ion Ratio Lower Upper
98 100
100 64.8 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: 1.027 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

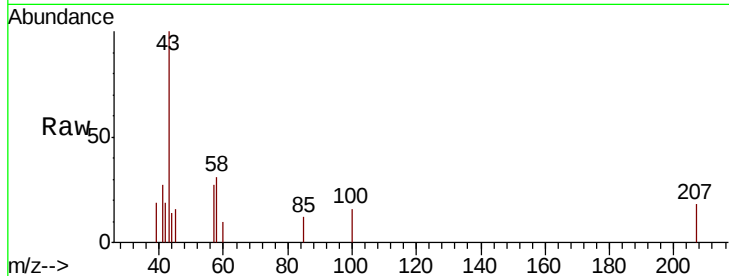
ClientSampled :

Tot Ion: 43 Resp: 2606

Ion Ratio Lower Upper

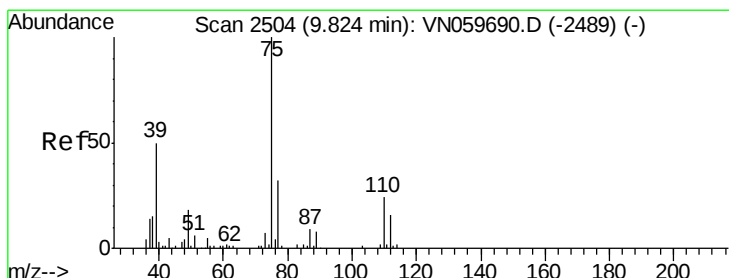
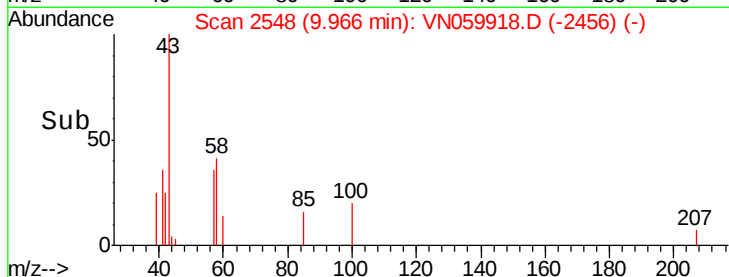
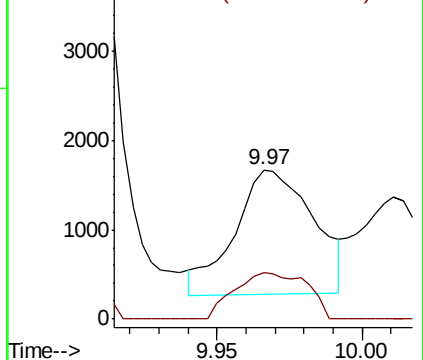
43 100

58 34.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.225 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

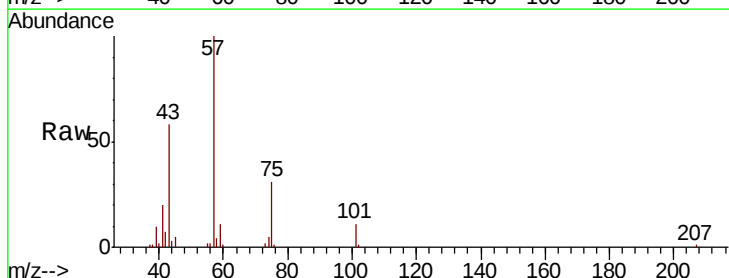
Tgt Ion: 75 Resp: 20877

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

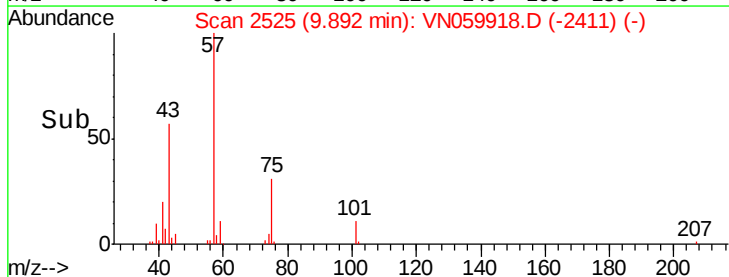
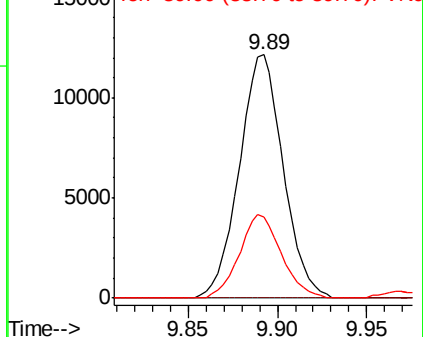
39 33.1 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.057 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

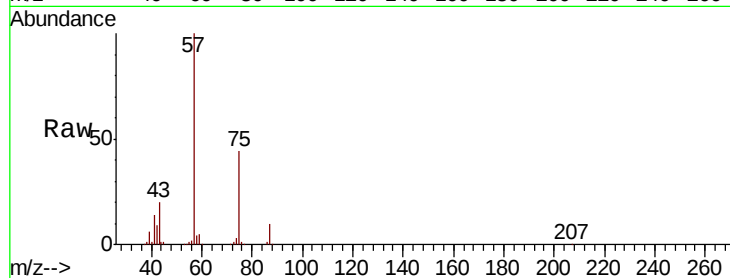
ClientSampleId :

Tot Ion: 76 Resp: 3407

Ion Ratio Lower Upper

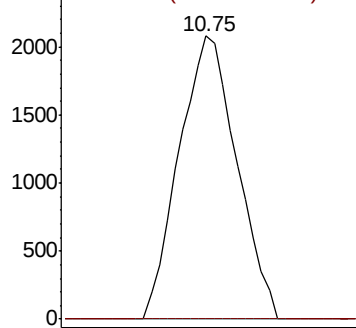
76 100

78 0.0 25.8 38.8#

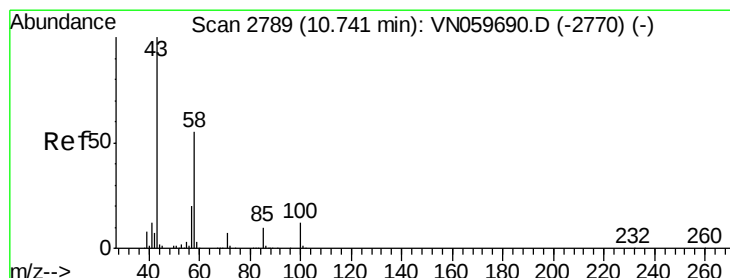
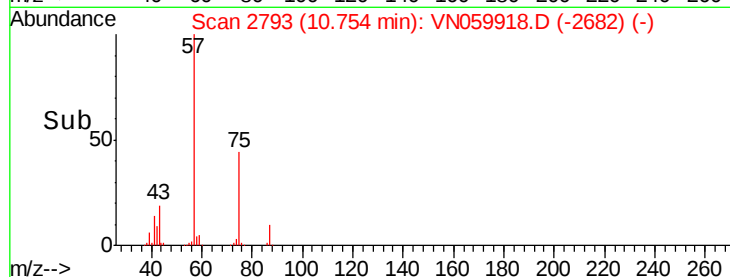


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 24.608 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059918.D

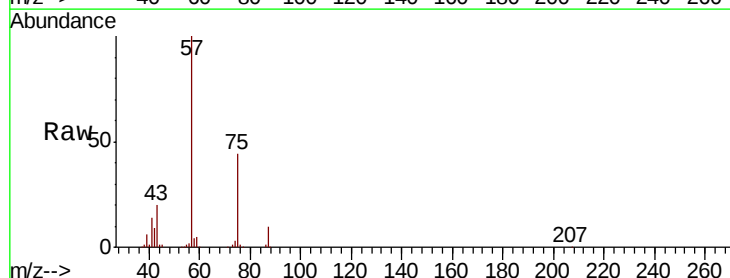
Acq: 29 Jan 2020 17:31

Tgt Ion: 43 Resp: 46005

Ion Ratio Lower Upper

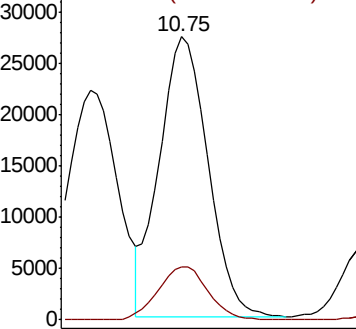
43 100

58 19.3 25.8 77.3#

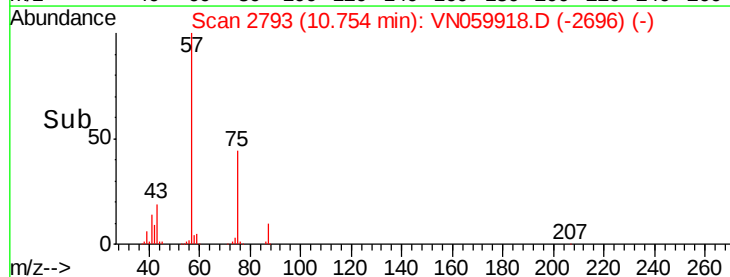


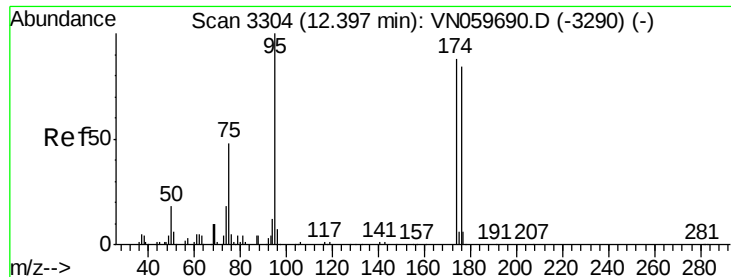
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 49.134 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

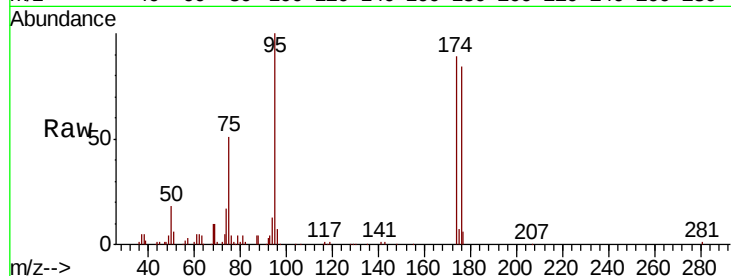
Tot Ion: 95 Resp: 127885

Ion Ratio Lower Upper

95 100

174 89.0 0.0 151.4

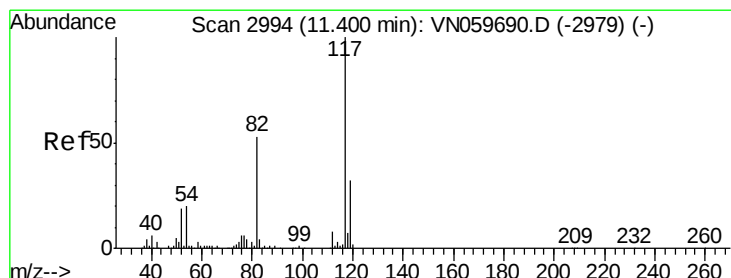
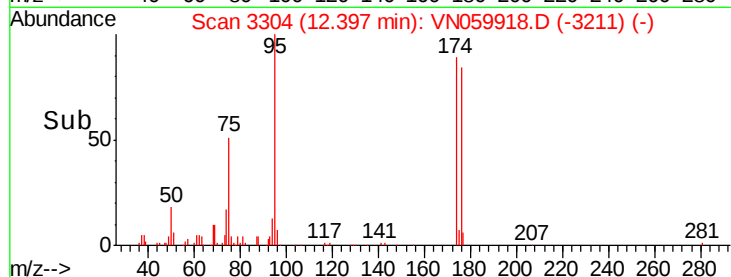
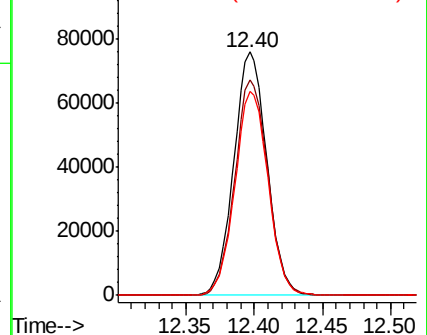
176 84.5 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059918.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059918.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059918.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

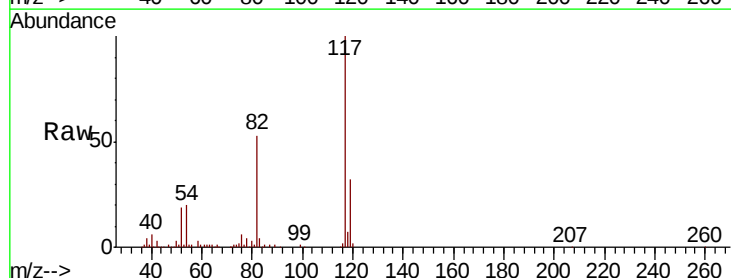
Tgt Ion: 117 Resp: 284908

Ion Ratio Lower Upper

117 100

82 53.1 45.9 68.9

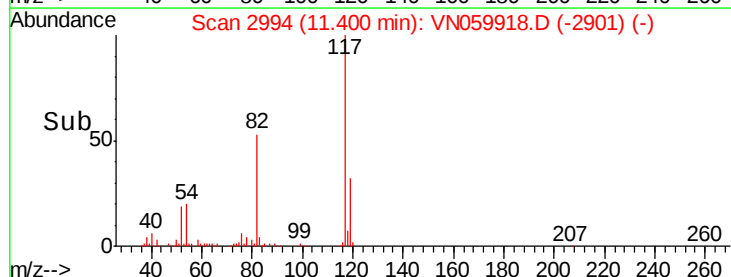
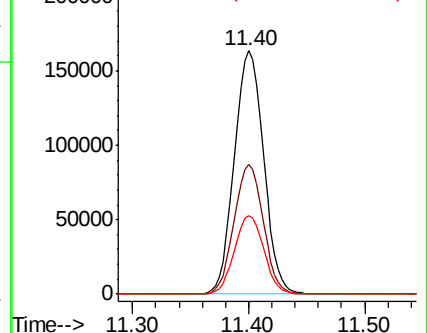
119 32.3 25.5 38.3

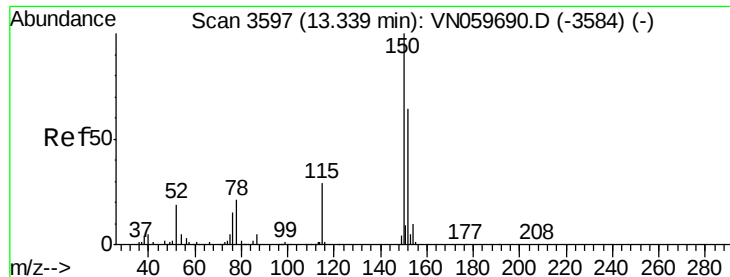


Abundance Ion 116.90 (116.60 to 117.60): VN059918.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059918.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059918.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: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

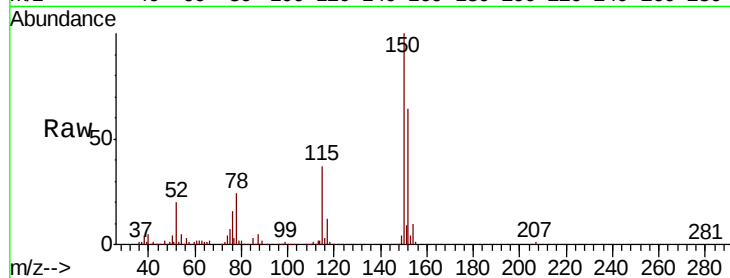
Tot Ion:152 Resp: 121368

Ion Ratio Lower Upper

152 100

115 57.3 30.3 90.9

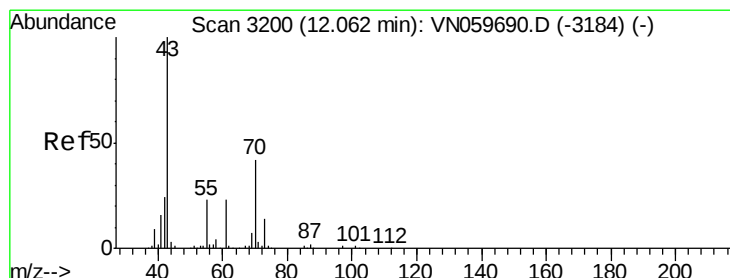
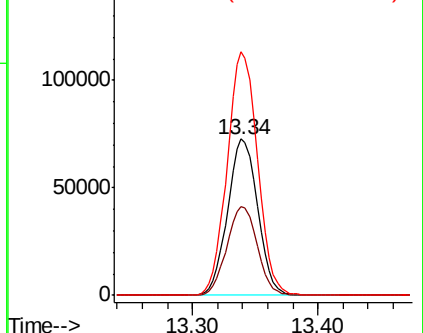
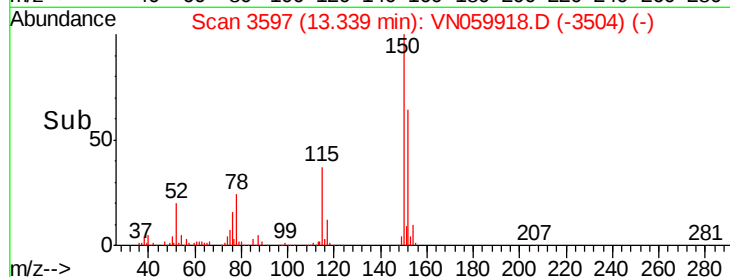
150 156.8 0.0 345.2



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



#74

N-ethyl acetate

Concen: 0.474 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Tgt Ion: 43 Resp: 1638

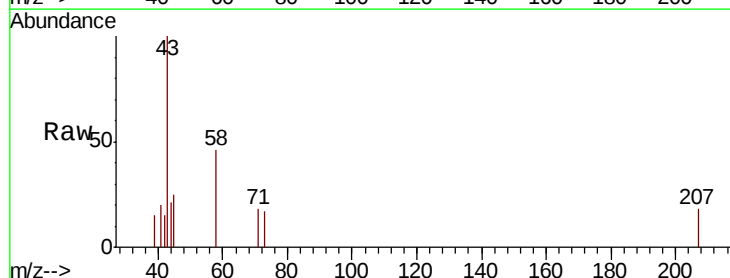
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

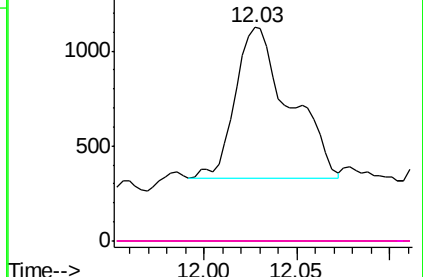
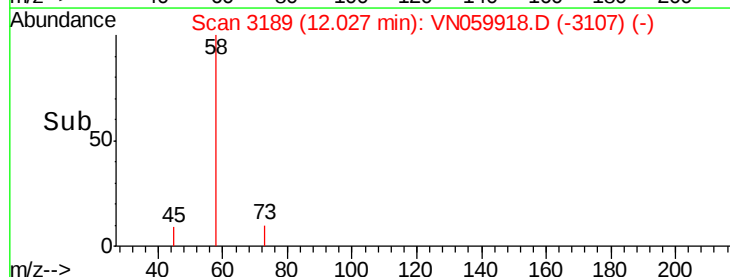


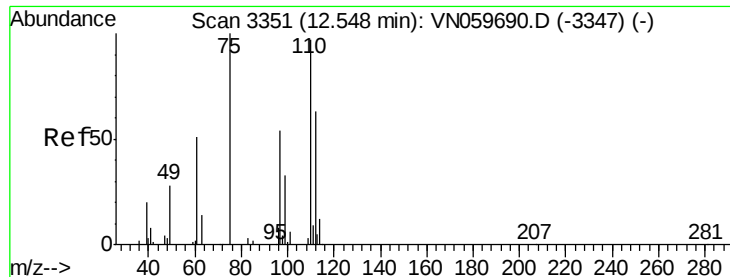
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 31.896 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

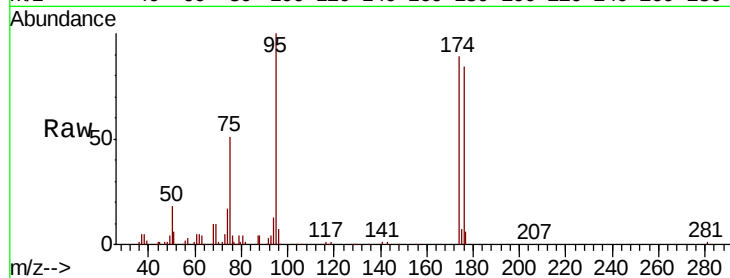
ClientSampled :

Tot Ion: 75 Resp: 65148

Ion Ratio Lower Upper

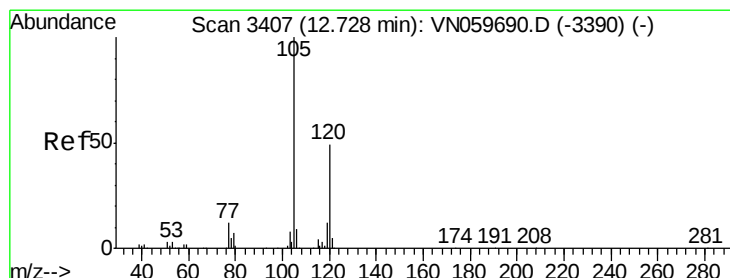
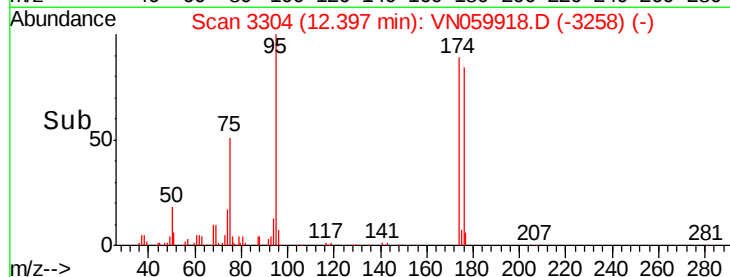
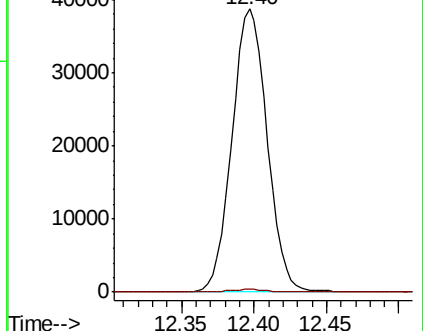
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059918.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059918.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.510 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059918.D

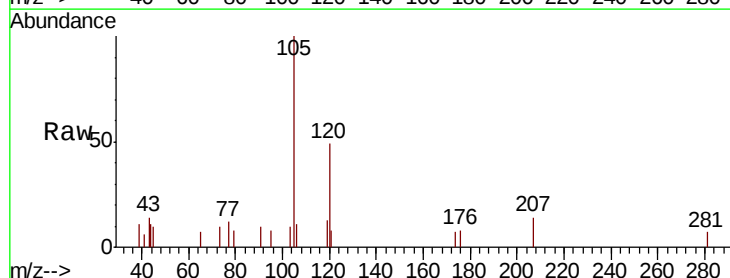
Acq: 29 Jan 2020 17:31

Tgt Ion: 105 Resp: 3817

Ion Ratio Lower Upper

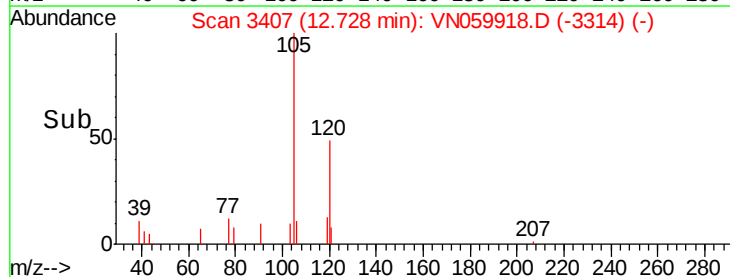
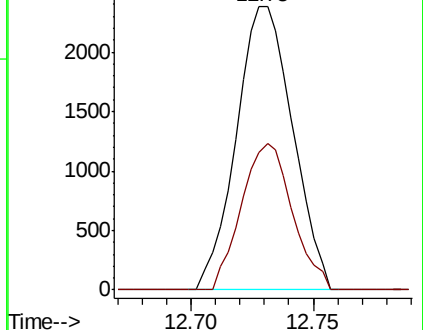
105 100

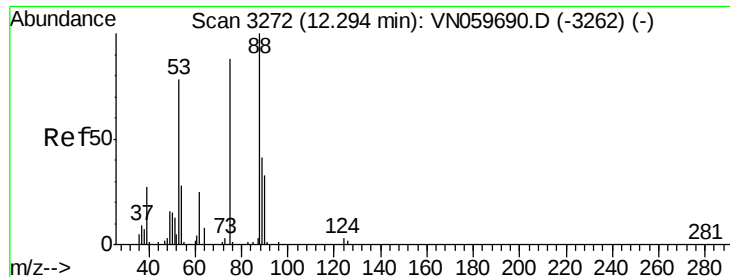
120 46.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059918.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN059918.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.497 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

Instrument :

MSVOA_N

ClientSampled :

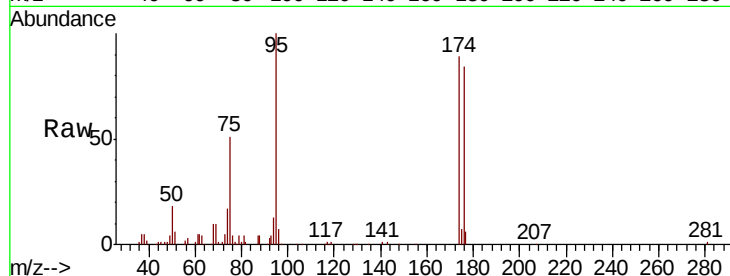
Tot Ion: 75 Resp: 65148

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

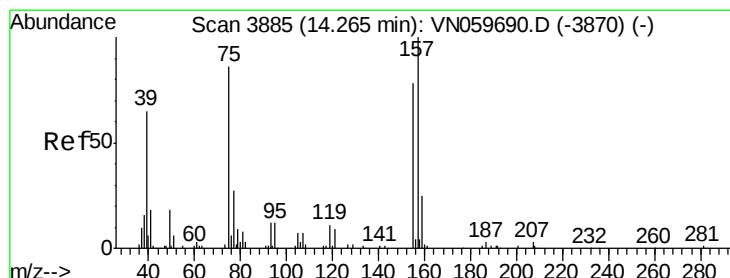
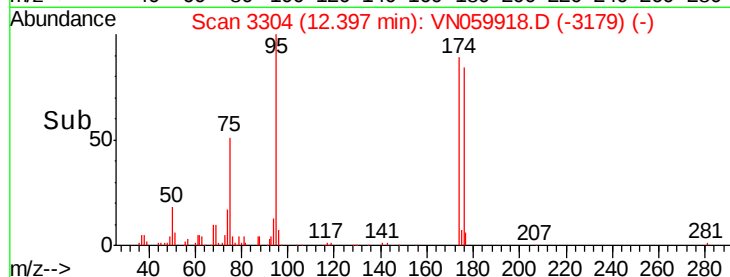
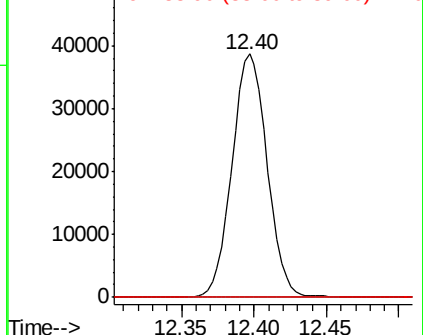
89 0.0 35.4 53.2#



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: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN059918.D

Acq: 29 Jan 2020 17:31

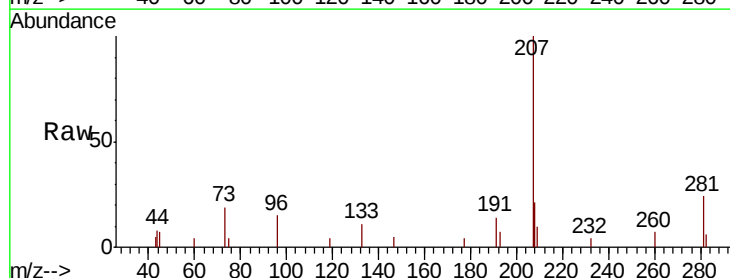
Tgt Ion: 75 Resp: 60

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

