

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059787.D
 Acq On : 20 Jan 2020 15:20
 Operator : JC/MD
 Sample : L1166-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:18:38 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	201787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304267	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	260326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	108348	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	104653	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
35) Dibromofluoromethane	7.57	113	90413	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	10.08	98	351374	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	12.40	95	116350	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	

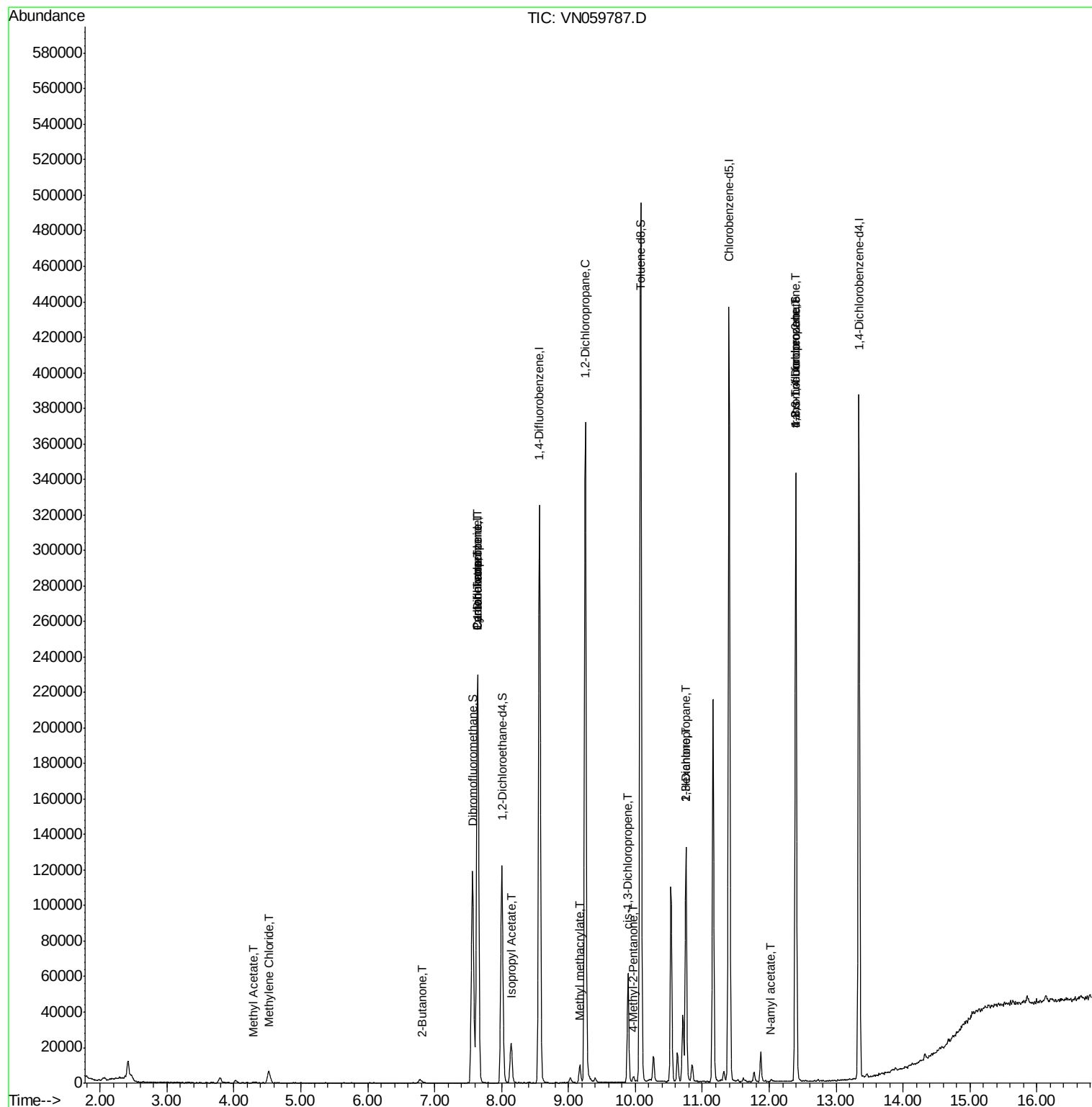
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4949	Below Cal		96
18) Methyl Acetate	4.29	43	659	0.252	ug/l #	54
20) Methylene Chloride	4.52	84	5344	1.377	ug/l	95
25) 2-Butanone	6.82	43	415	0.327	ug/l #	50
31) Cyclohexane	7.64	56	3815	1.151	ug/l #	8
36) 1,1-Dichloropropene	7.64	75	13599	5.132	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18629	6.463	ug/l #	15
43) Isopropyl Acetate	8.14	43	26869	6.286	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	412	0.211	ug/l #	44
48) Methyl methacrylate	9.17	41	1395	0.730	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	1497	0.606	ug/l #	76
54) cis-1,3-Dichloropropene	9.89	75	11633	3.562	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	1425	0.454	ug/l #	42
59) 2-Hexanone	10.75	43	18773	10.313	ug/l #	57
74) N-amyl acetate	12.03	43	831	0.270	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	57198	31.369	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	57198	67.365	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	62	Below Cal	#	6

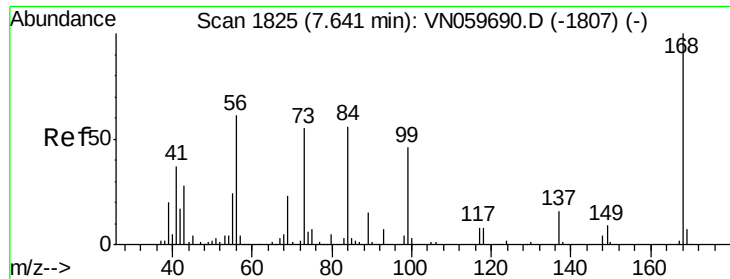
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 18 03:09:32 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059787.D

Acq: 20 Jan 2020 15:20

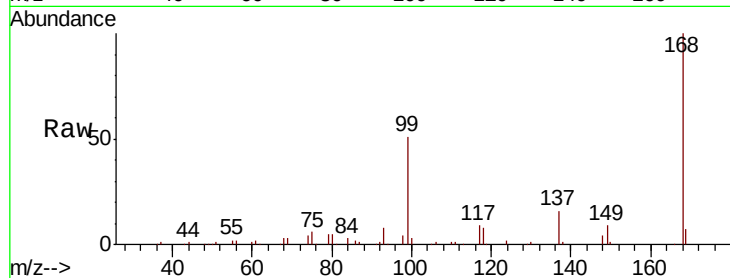
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 201787

Ion Ratio Lower Upper

168 100

99 50.9 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

80000

60000

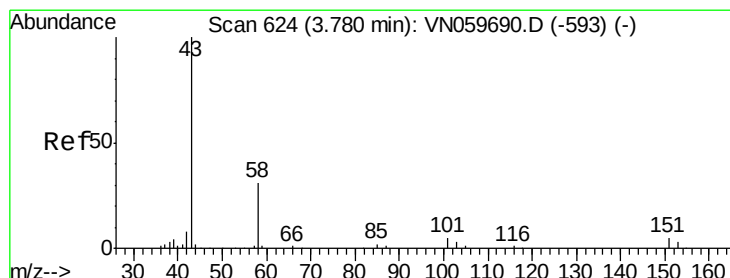
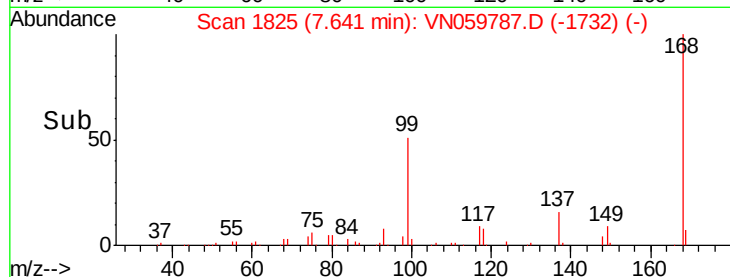
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059787.D

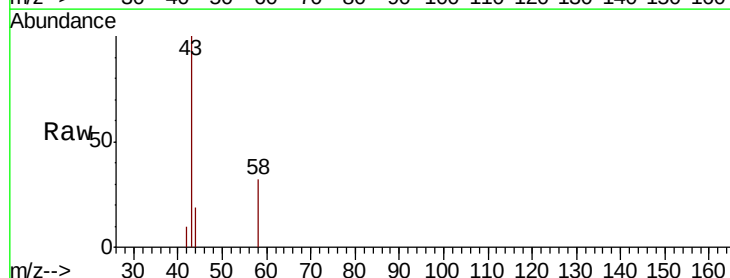
Acq: 20 Jan 2020 15:20

Tgt Ion: 43 Resp: 4949

Ion Ratio Lower Upper

43 100

58 31.8 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

2000

1500

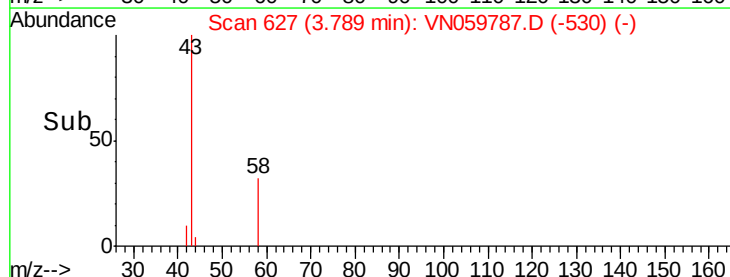
1000

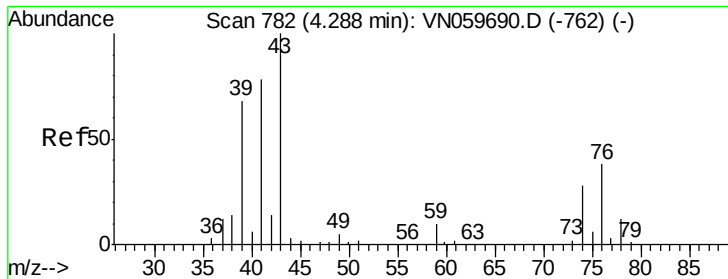
500

0

3.75 3.80 3.85

Time-->

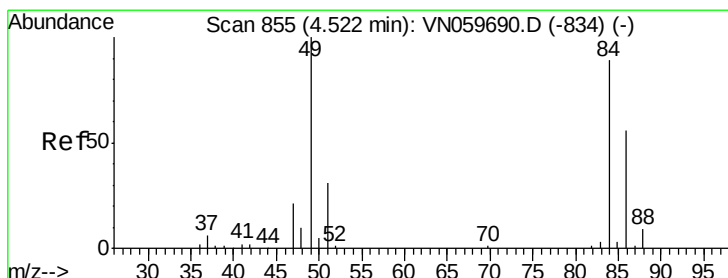
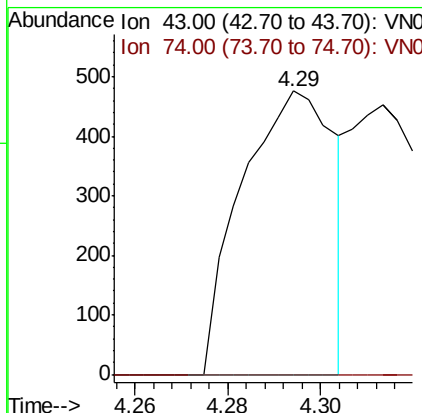
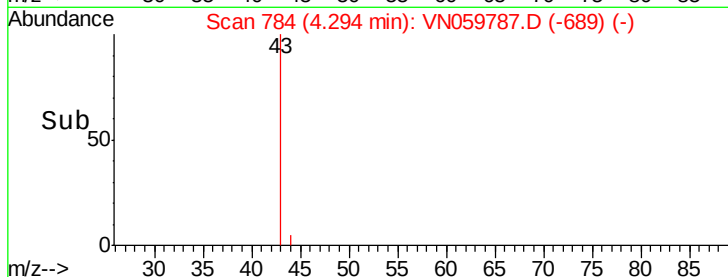
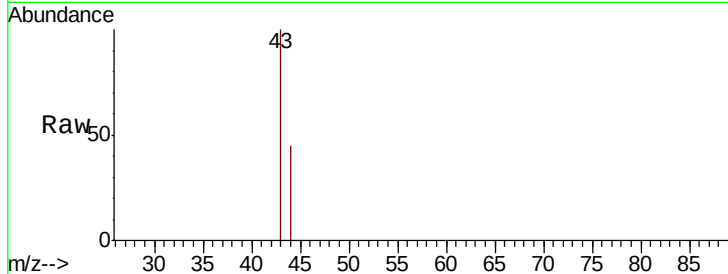




#18
Methyl Acetate
Concen: 0.252 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

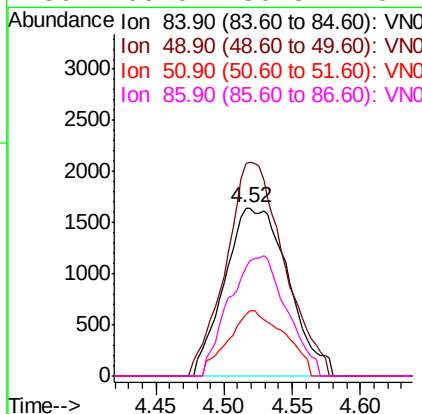
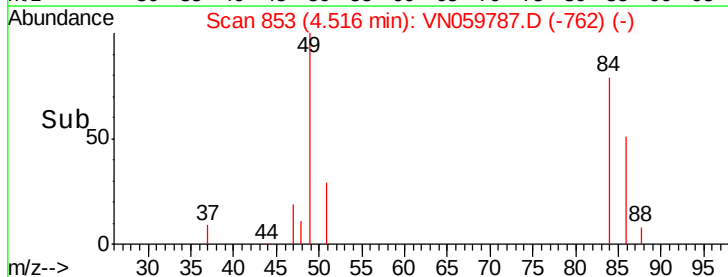
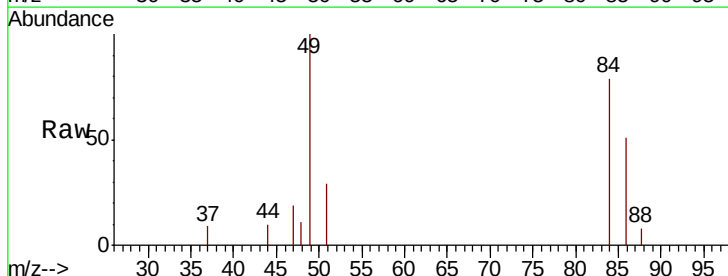
Instrument :
MSVOA_N
ClientSampled :

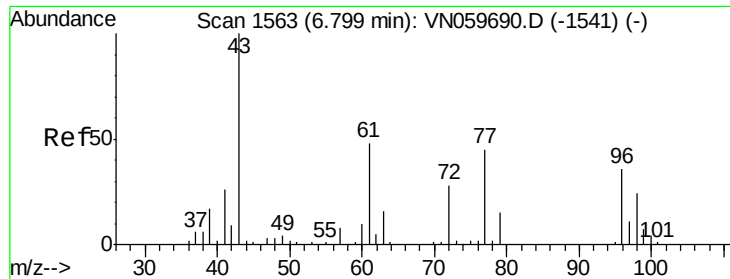
Tot Ion: 43 Resp: 659
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.377 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

Tgt Ion: 84 Resp: 5344
Ion Ratio Lower Upper
84 100
49 126.6 106.6 160.0
51 36.2 31.9 47.9
86 65.0 50.8 76.2

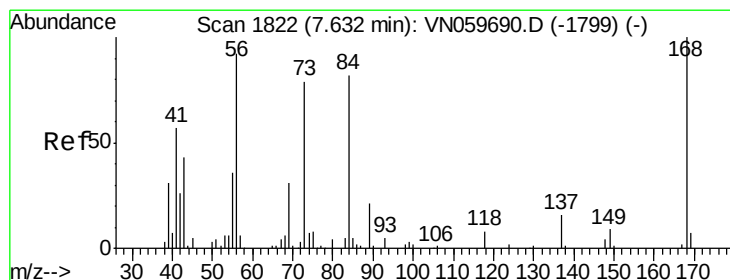
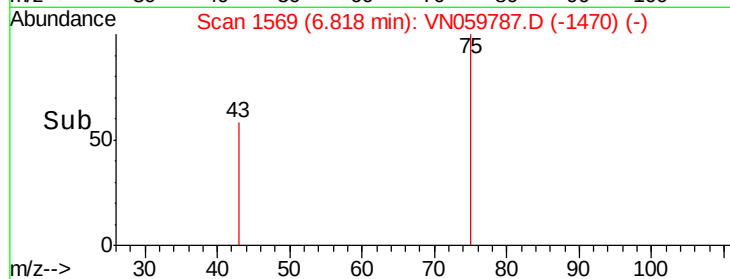
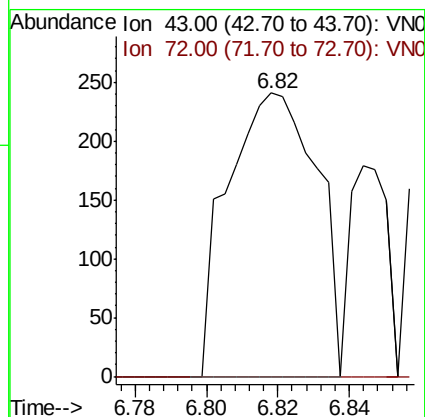
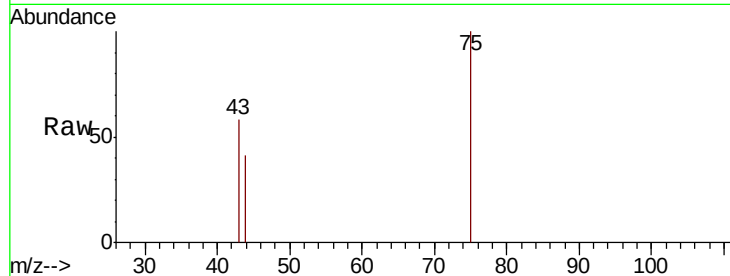




#25
2-Butanone
Concen: 0.327 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

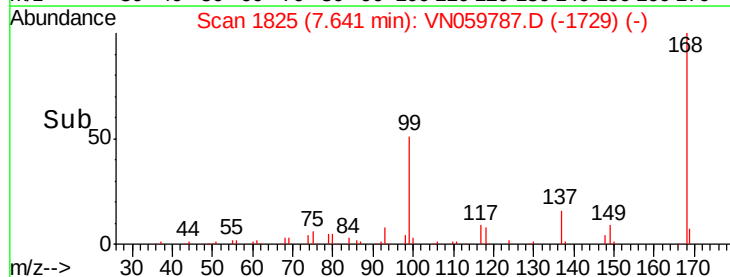
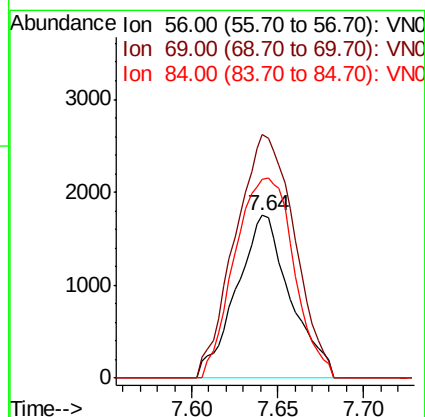
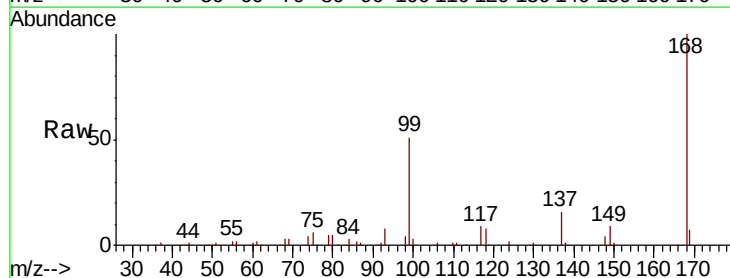
Instrument :
MSVOA_N
ClientSampled :

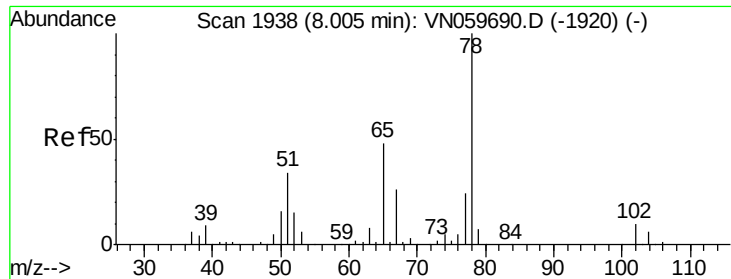
Tot Ion: 43 Resp: 415
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.151 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

Tgt Ion: 56 Resp: 3815
Ion Ratio Lower Upper
56 100
69 149.6 26.5 39.7#
84 122.6 65.3 97.9#

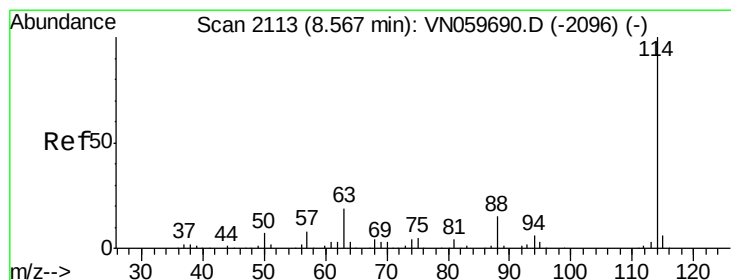
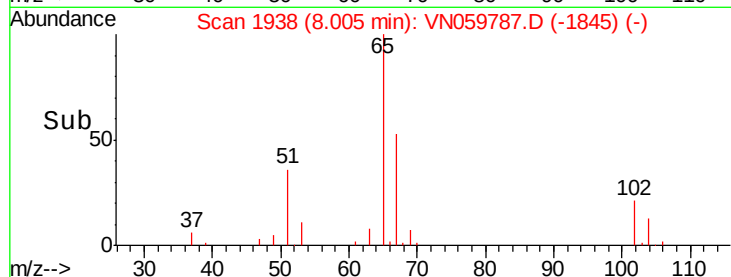
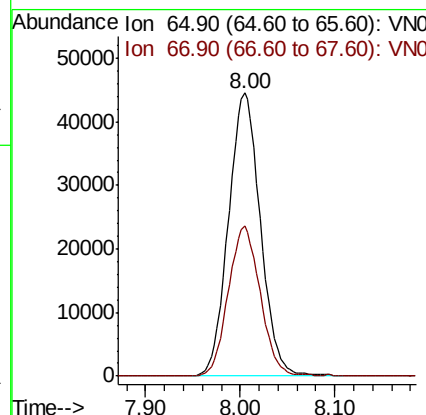
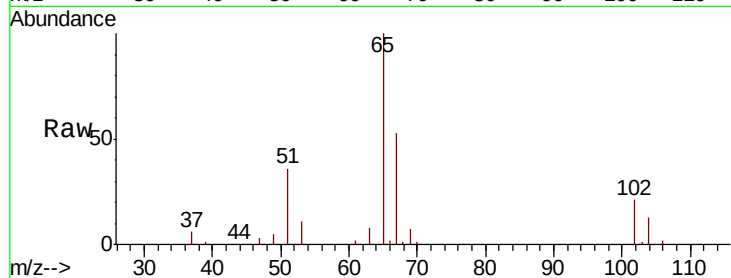




#33
 1,2-Dichloroethane-d4
 Concen: 46.701 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

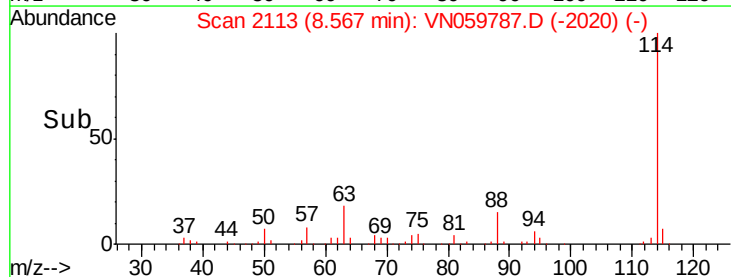
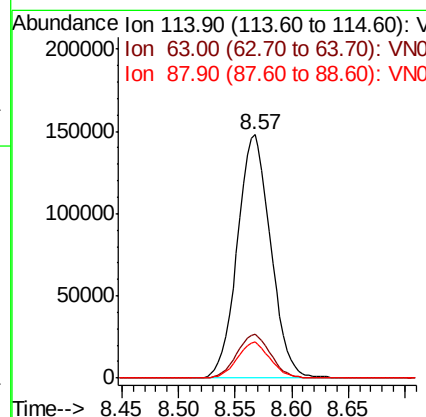
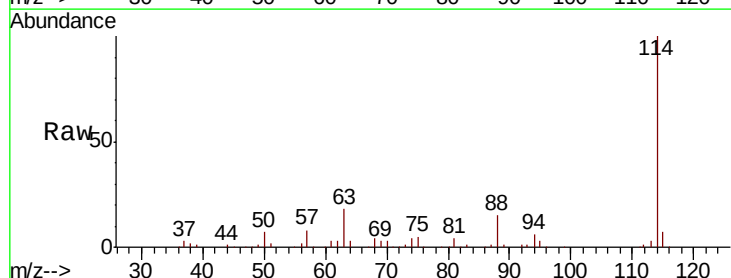
Instrument :
 MSVOA_N
 ClientSampled :

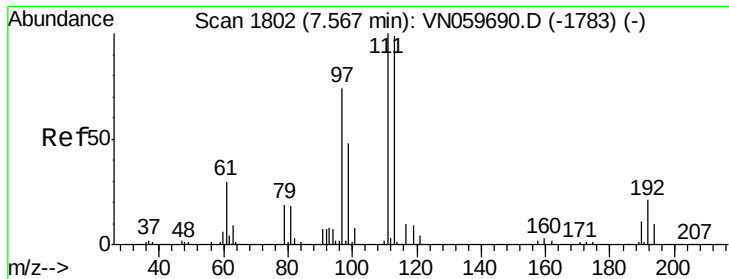
Tot Ion: 65 Resp: 104653
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Tgt Ion: 114 Resp: 304267
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 43.6
 88 14.7 0.0 31.4

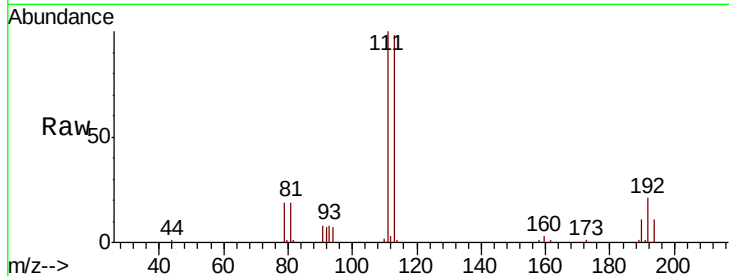




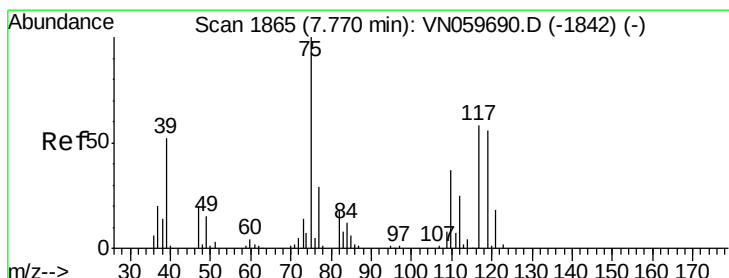
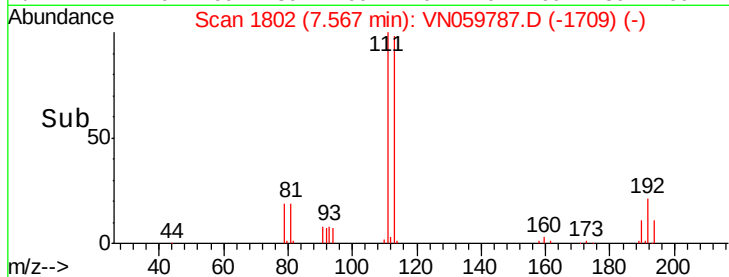
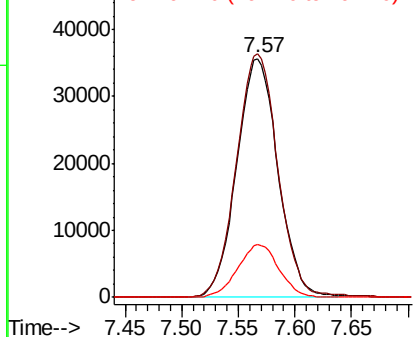
#35
 Dibromofluoromethane
 Concen: 49.829 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 90413
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.5 125.3
 192 21.9 15.4 23.2

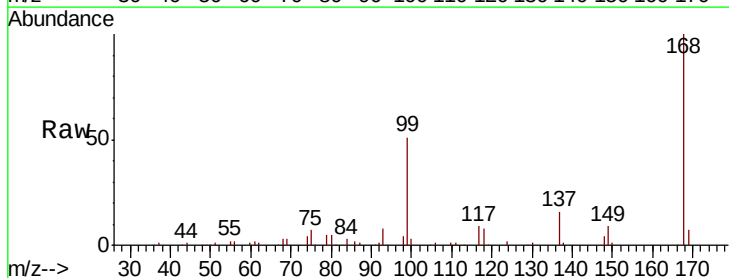


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

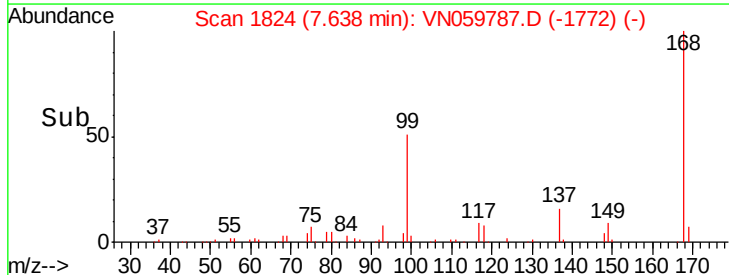
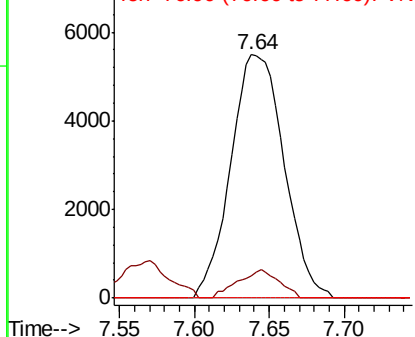


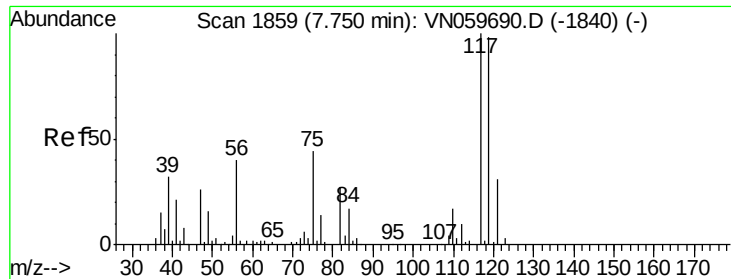
#36
 1,1-Dichloropropene
 Concen: 5.132 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Tgt Ion: 75 Resp: 13599
 Ion Ratio Lower Upper
 75 100
 110 9.1 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: 6.463 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059787.D

Acq: 20 Jan 2020 15:20

Instrument :

MSVOA_N

ClientSampled :

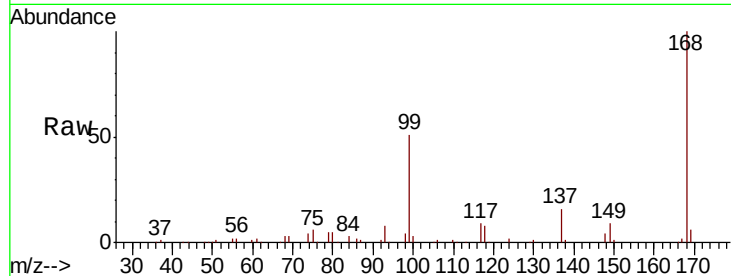
Tot Ion:117 Resp: 18629

Ion Ratio Lower Upper

117 100

119 3.3 76.5 114.7#

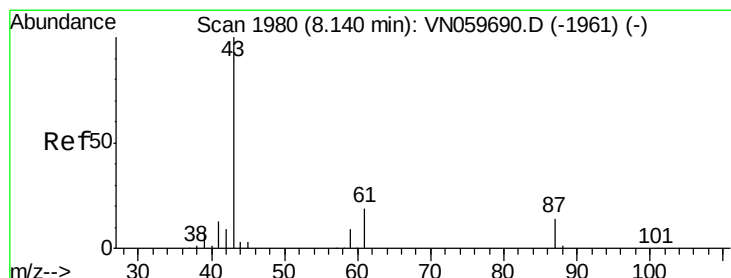
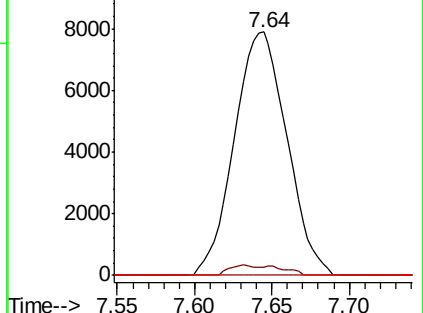
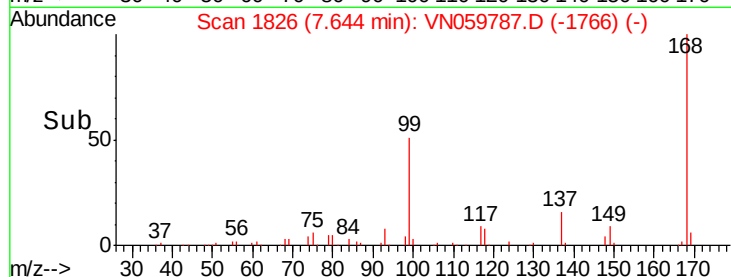
121 0.0 25.1 37.7#



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: 6.286 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059787.D

Acq: 20 Jan 2020 15:20

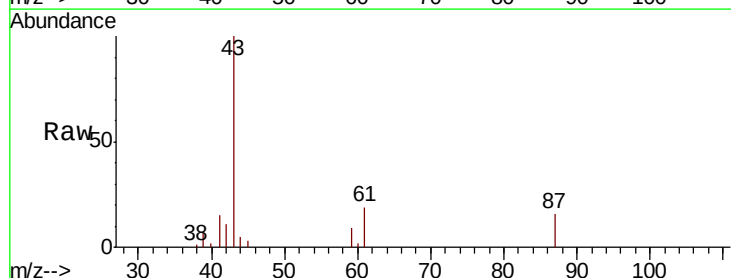
Tgt Ion: 43 Resp: 26869

Ion Ratio Lower Upper

43 100

61 20.2 20.2 30.2

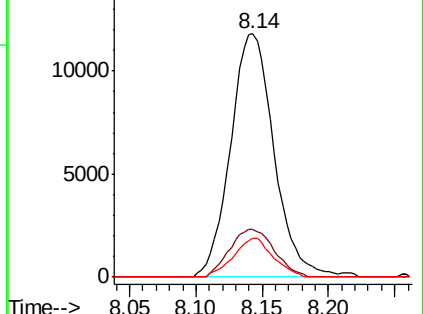
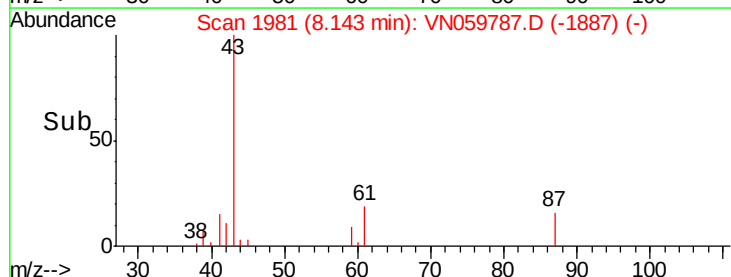
87 14.5 9.5 14.3#

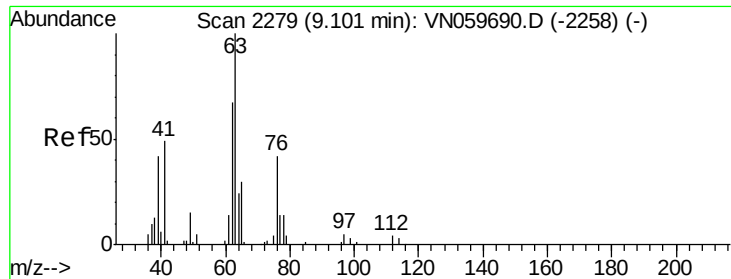


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

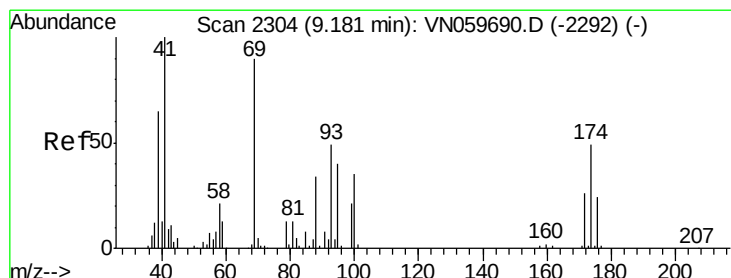
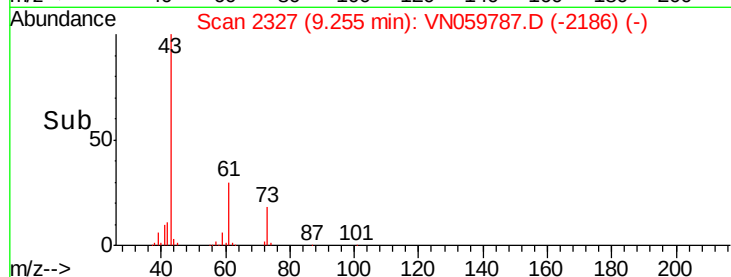
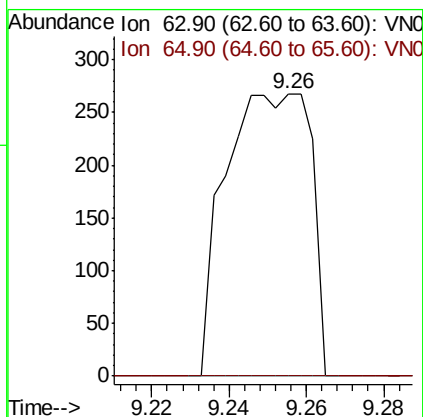
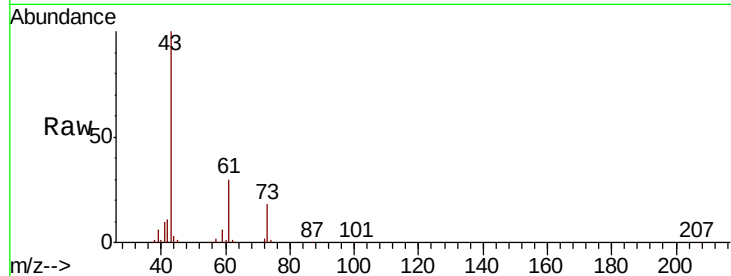




#45
 1,2-Dichloropropane
 Concen: 0.211 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.15 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

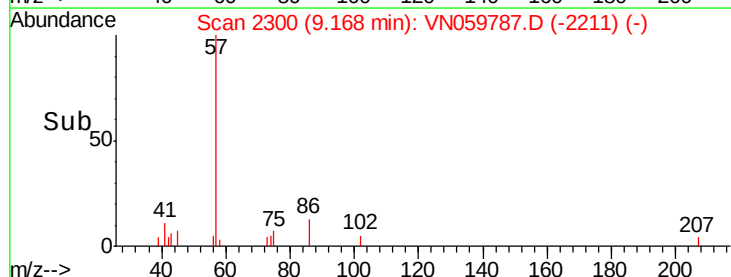
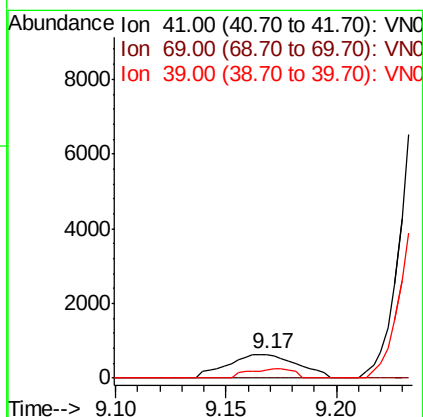
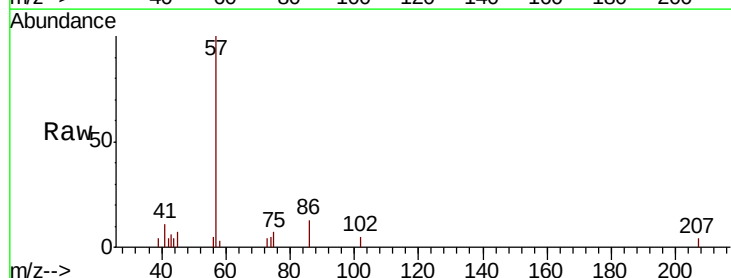
Instrument :
 MSVOA_N
 ClientSampled :

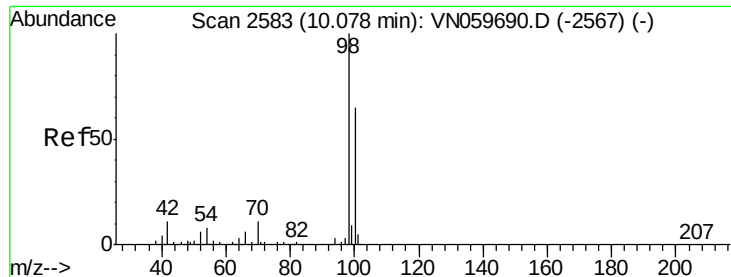
Tot Ion: 63 Resp: 412
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 0.730 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.01 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Tgt Ion: 41 Resp: 1395
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 49.981 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059787.D

Acq: 20 Jan 2020 15:20

Instrument :

MSVOA_N

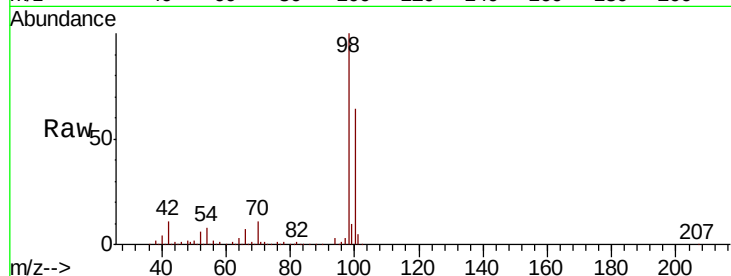
ClientSampled :

Tot Ion: 98 Resp: 351374

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059690.D (-2567) (-)

10.08

200000

150000

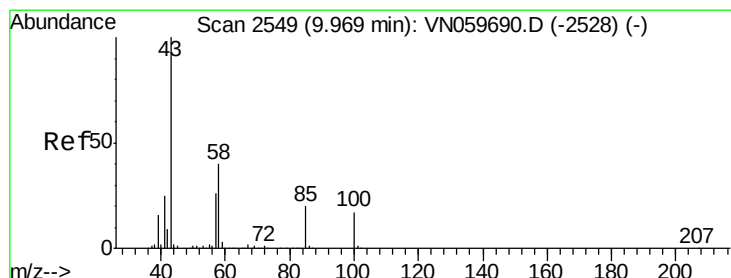
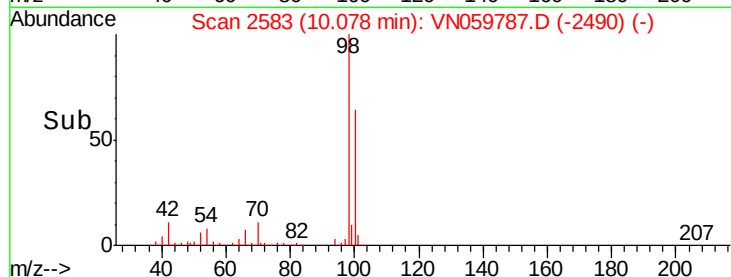
100000

50000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.606 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059787.D

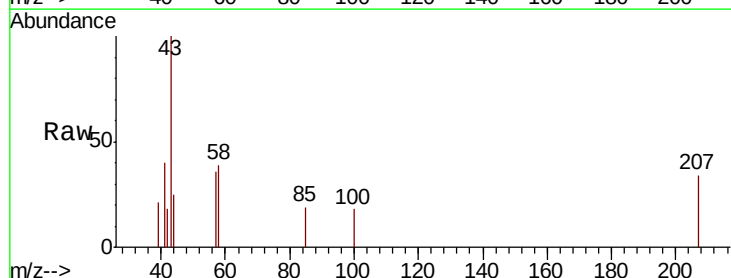
Acq: 20 Jan 2020 15:20

Tgt Ion: 43 Resp: 1497

Ion Ratio Lower Upper

43 100

58 51.6 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-2528) (-)

3000

2500

2000

1500

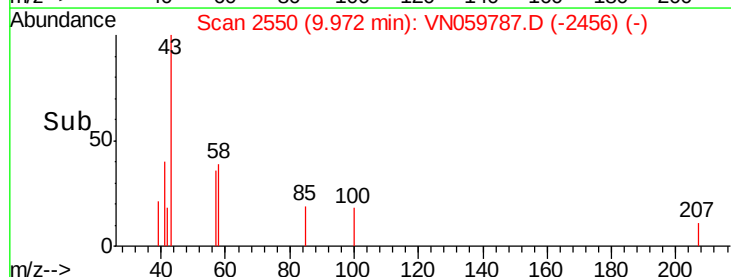
1000

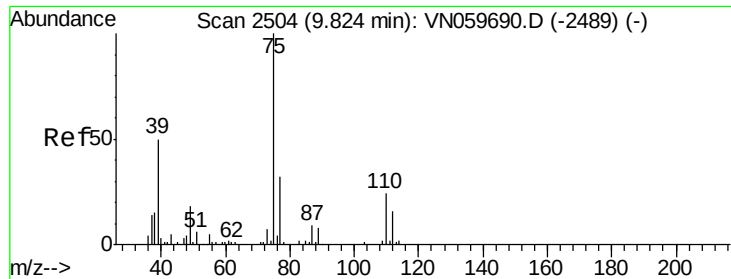
500

0

Time-->

9.95 10.00



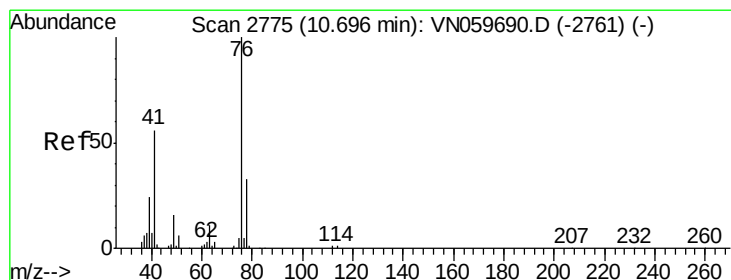
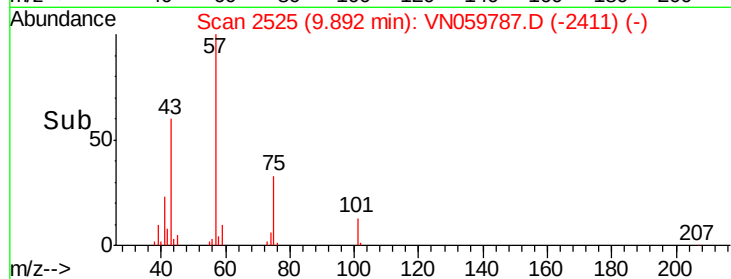
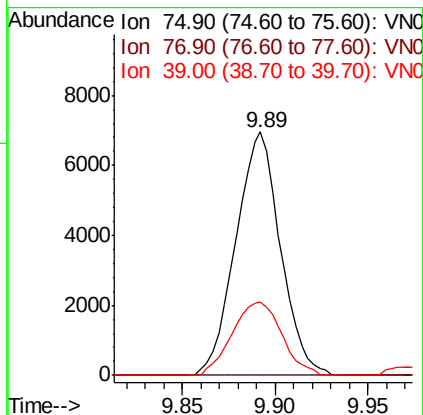
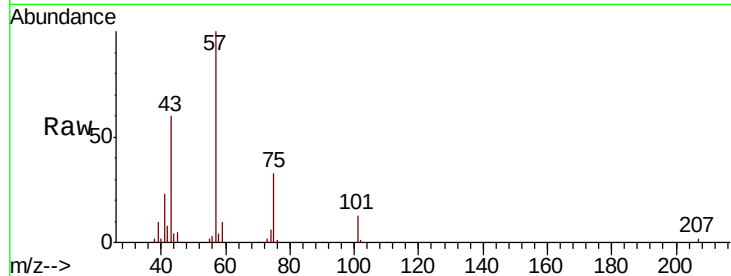


#54

cis-1,3-Dichloropropene
 Concen: 3.562 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Instrument :
 MSVOA_N
 ClientSampled :

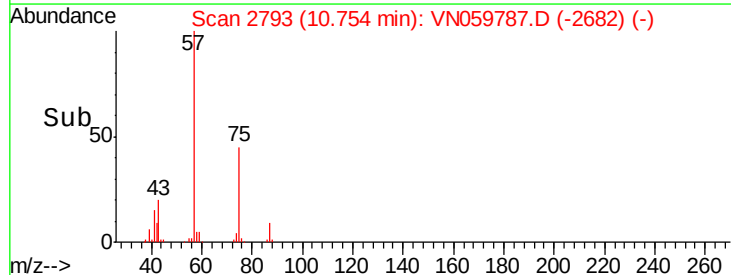
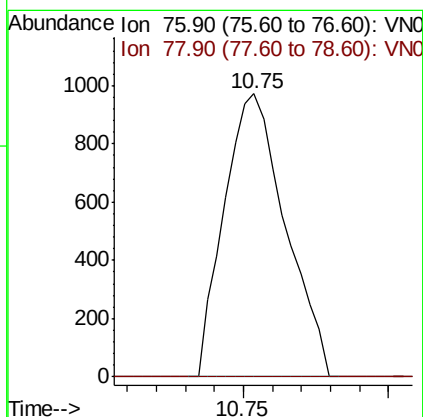
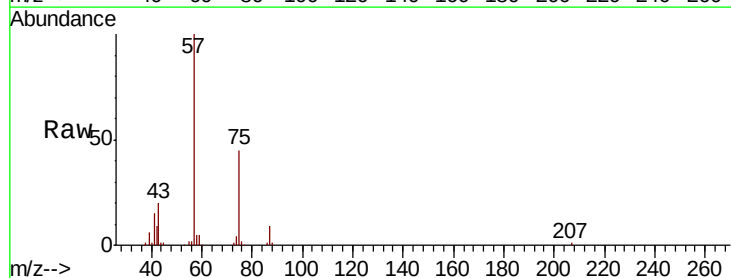
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.1	37.7#
39	29.9	46.1	69.1#

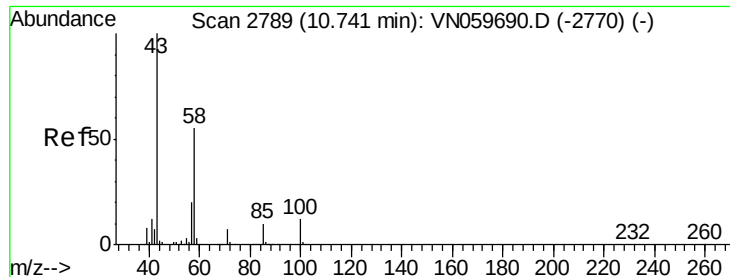


#57

1,3-Dichloropropane
 Concen: 0.454 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

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

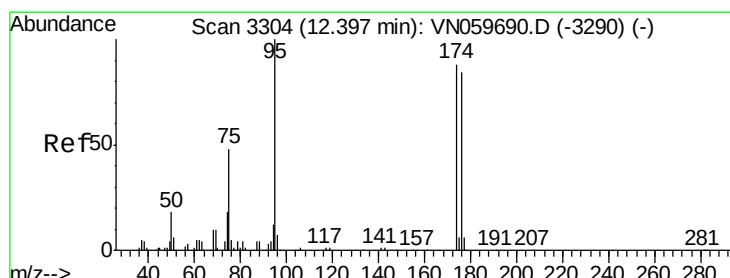
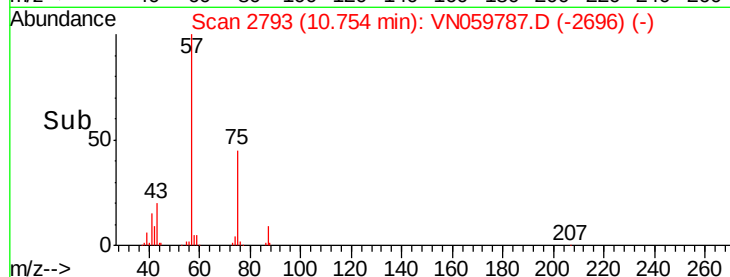
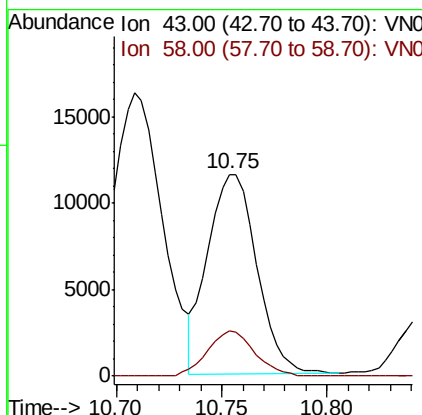
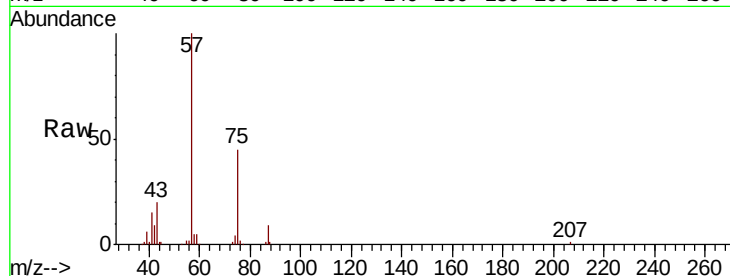




#59
2-Hexanone
Concen: 10.313 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

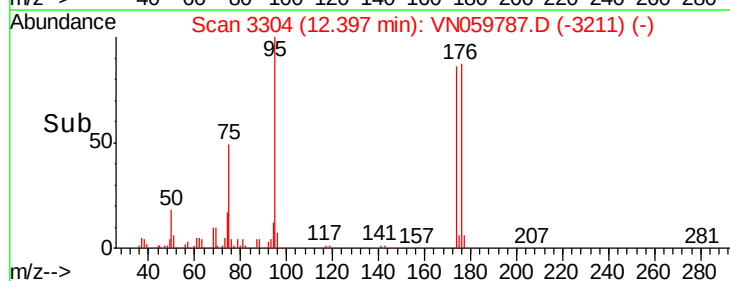
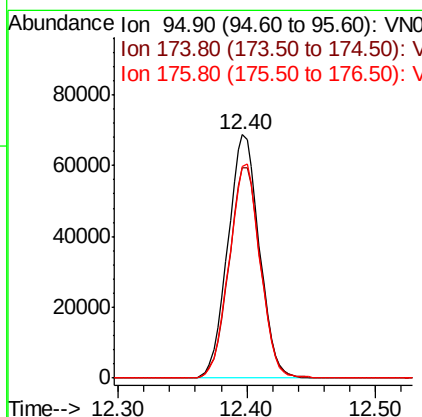
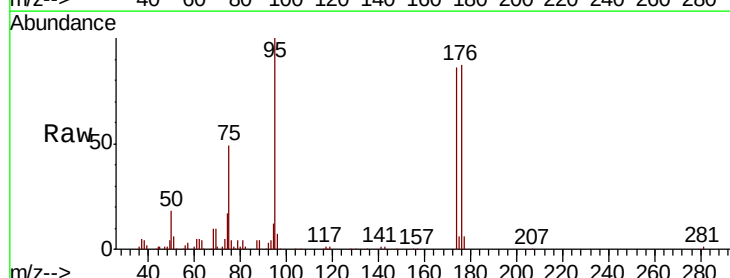
Instrument :
MSVOA_N
ClientSampleId :

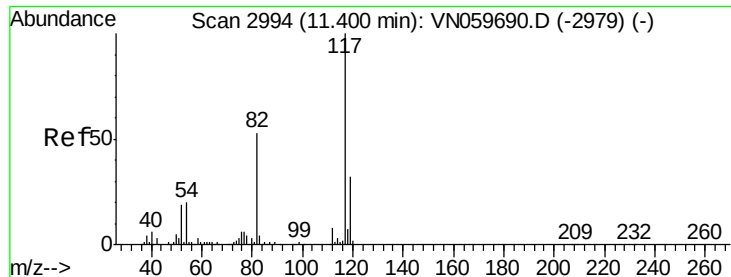
Tot Ion: 43 Resp: 18773
Ion Ratio Lower Upper
43 100
58 21.6 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 45.909 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

Tgt Ion: 95 Resp: 116350
Ion Ratio Lower Upper
95 100
174 86.5 0.0 151.4
176 86.4 0.0 146.0

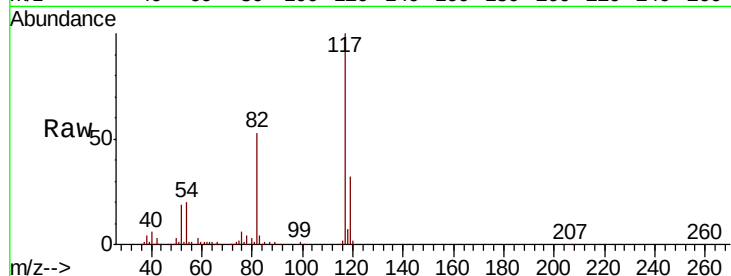




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	45.9	68.9
119	31.6	25.5	38.3

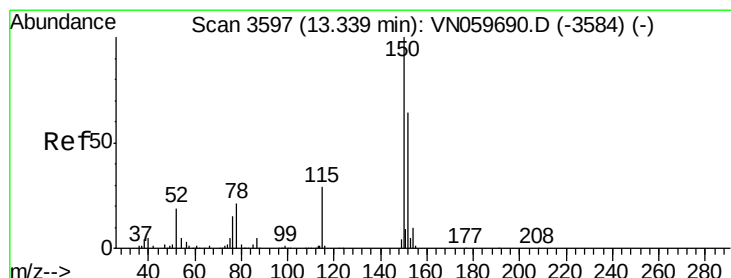
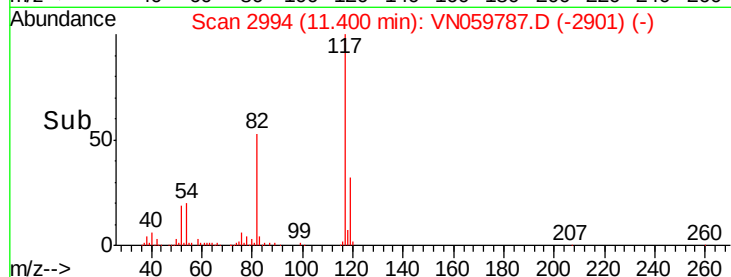
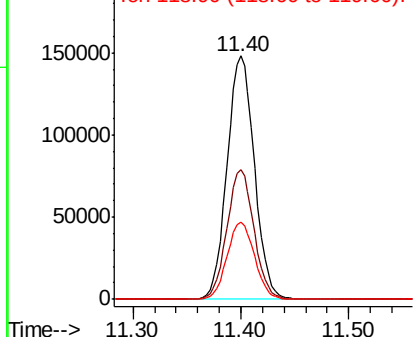


Abundance

Ion 116.90 (116.60 to 117.60): V

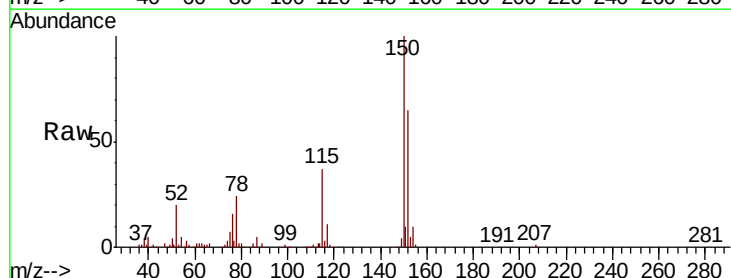
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN059787.D
Acq: 20 Jan 2020 15:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	30.3	90.9
150	155.1	0.0	345.2

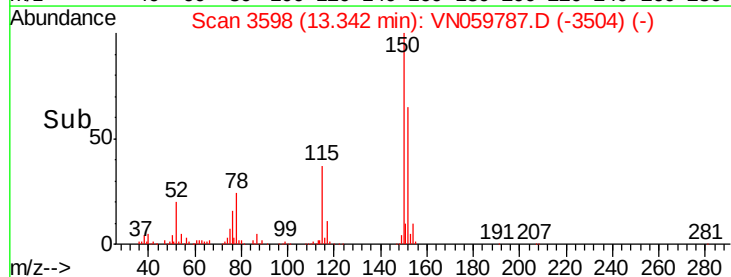
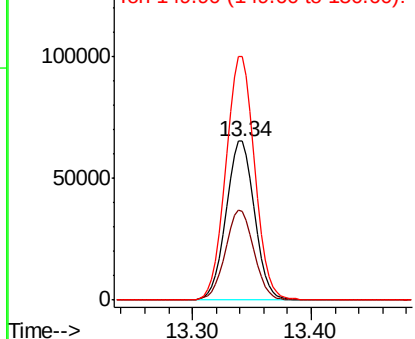


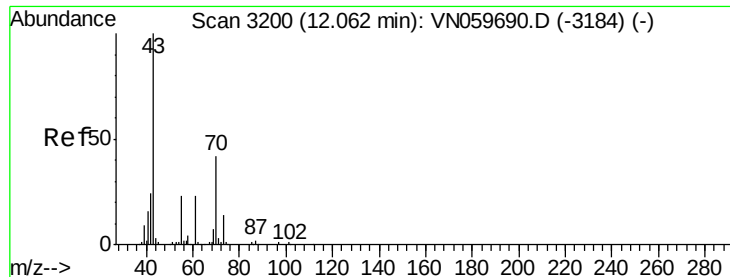
Abundance

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-amyl acetate

Concen: 0.270 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059787.D

Acq: 20 Jan 2020 15:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 831

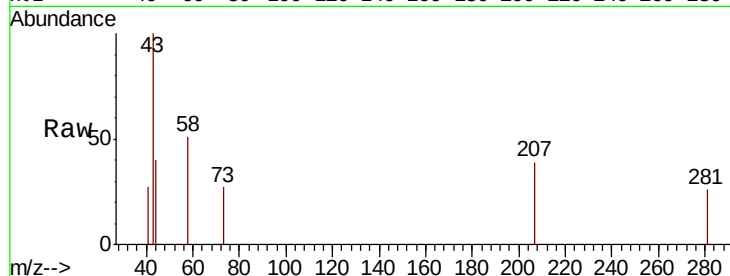
Ion Ratio Lower Upper

43 100

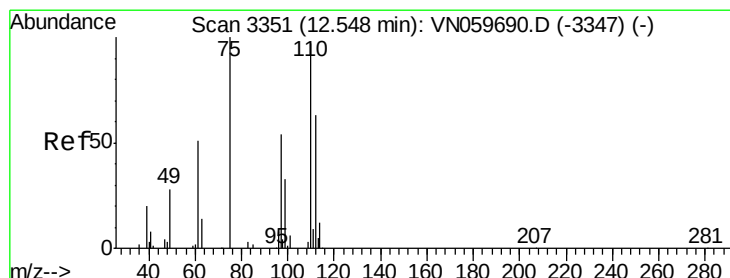
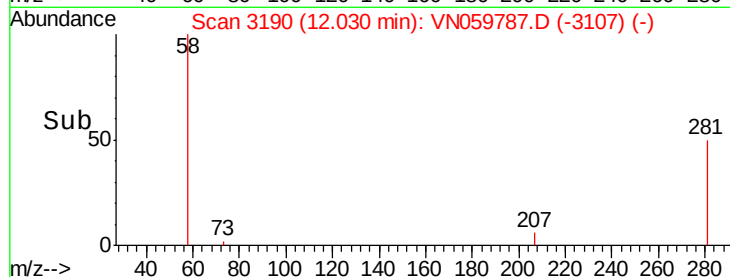
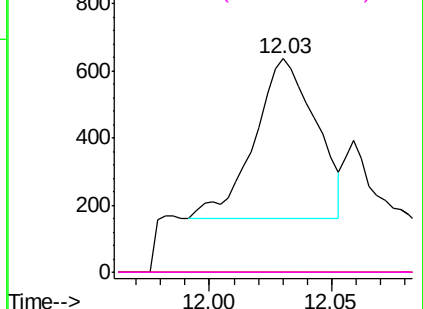
70 0.0 31.3 46.9#

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: 31.369 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059787.D

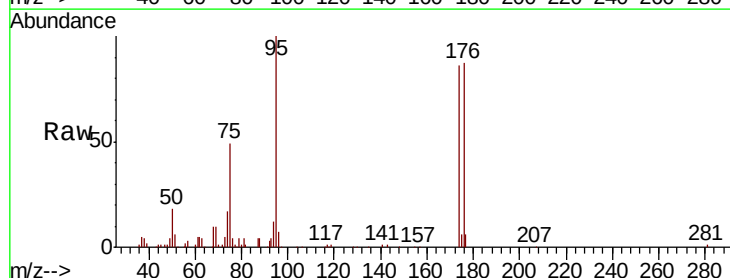
Acq: 20 Jan 2020 15:20

Tgt Ion: 75 Resp: 57198

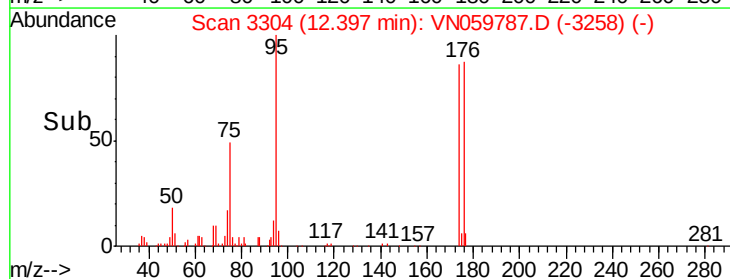
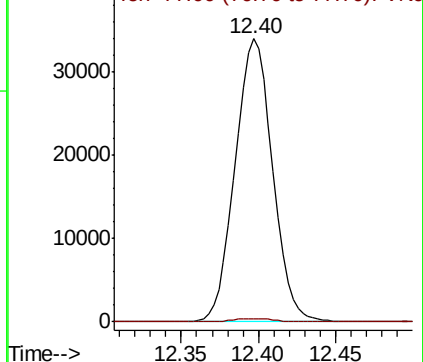
Ion Ratio Lower Upper

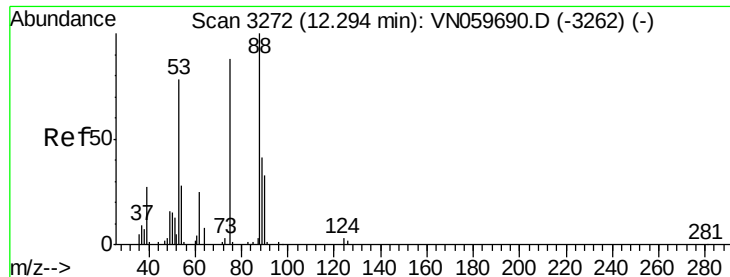
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO

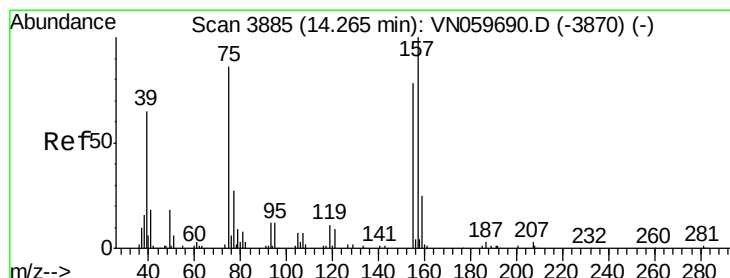
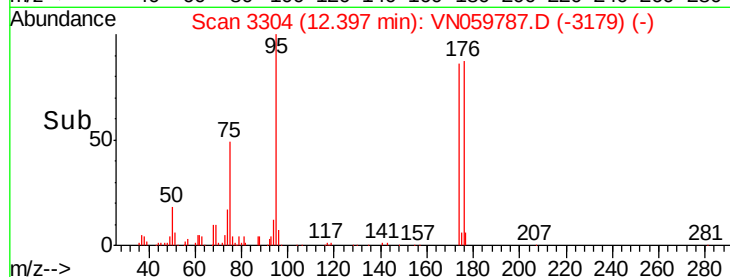
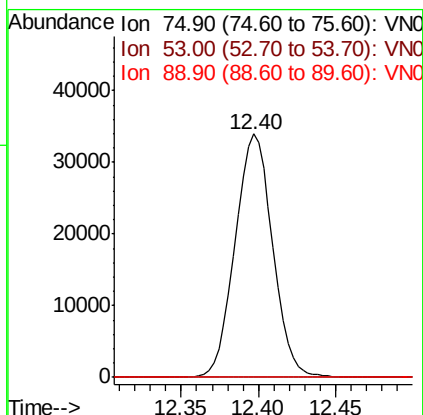
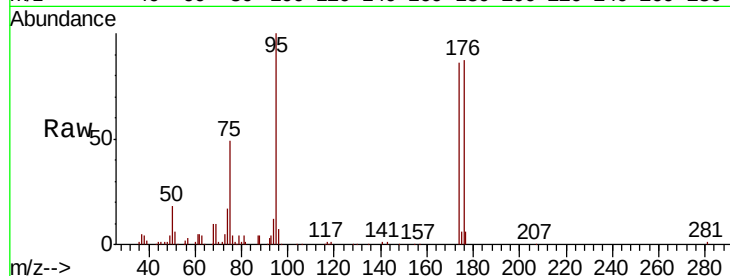




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.365 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 57198
 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: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN059787.D
 Acq: 20 Jan 2020 15:20

Tgt Ion: 75 Resp: 62
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#

