

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061914.D
 Acq On : 18 Jun 2020 20:52
 Operator : JC/MD
 Sample : L3024-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-1

Quant Time: Jun 19 05:29:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	138954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	258047	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	257626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97672	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	93893	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
35) Dibromofluoromethane	7.55	113	82287	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	10.06	98	329331	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	
62) 4-Bromofluorobenzene	12.38	95	107398	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	

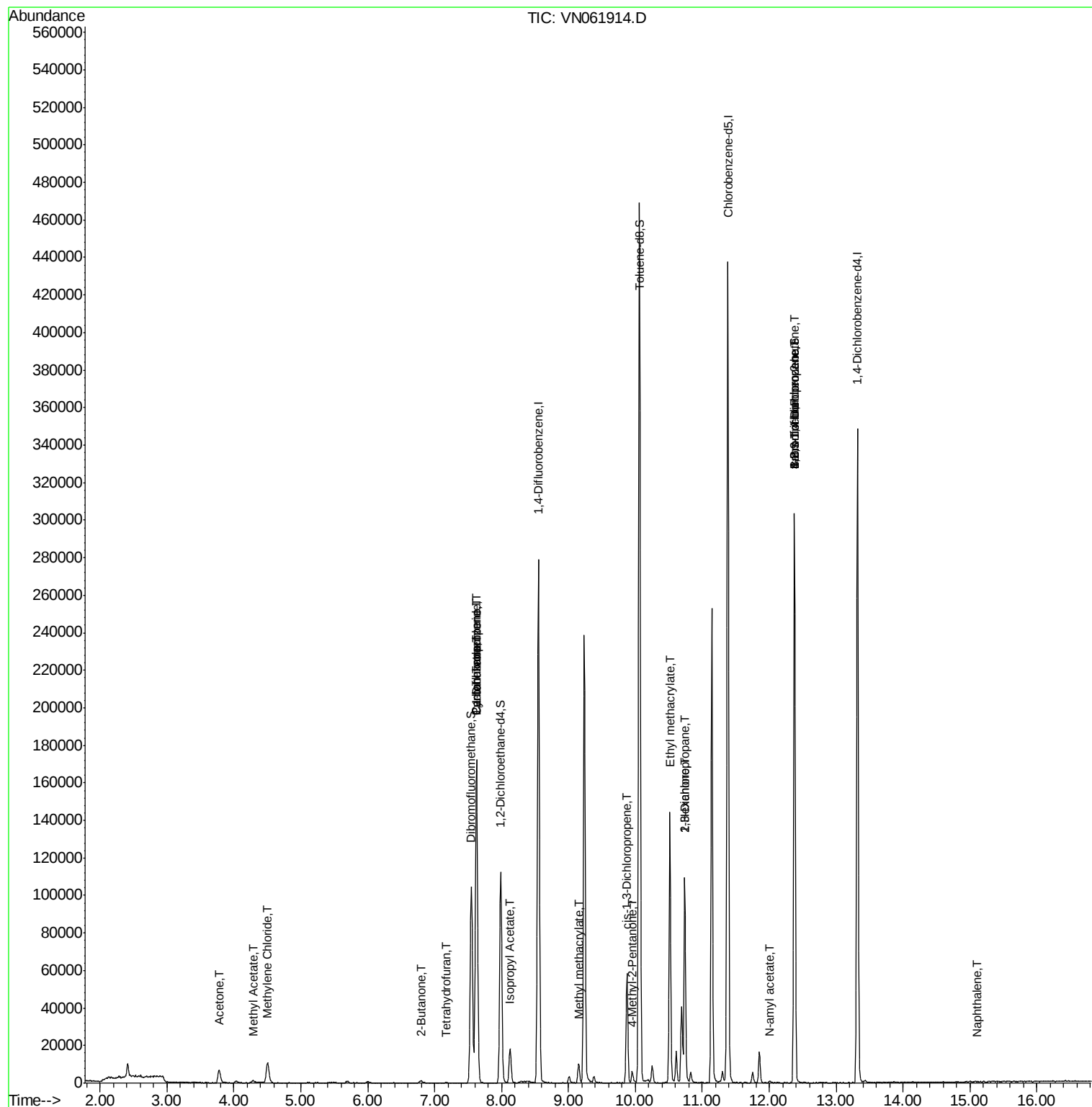
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	11912	21.640	ug/l	95
18) Methyl Acetate	4.29	43	2303	1.453	ug/l #	64
20) Methylene Chloride	4.51	84	8853	4.936	ug/l	95
25) 2-Butanone	6.79	43	1767	2.200	ug/l #	44
29) Tetrahydrofuran	7.17	42	388	0.734	ug/l #	26
31) Cyclohexane	7.63	56	2977	1.212	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	10856	4.612	ug/l #	48
38) Carbon Tetrachloride	7.63	117	14181	6.084	ug/l #	17
43) Isopropyl Acetate	8.13	43	20154	6.507	ug/l #	88
48) Methyl methacrylate	9.15	41	1793	1.273	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	5204	2.843	ug/l #	79
54) cis-1,3-Dichloropropene	9.88	75	11468	3.937	ug/l #	67
56) Ethyl methacrylate	10.51	69	714	3.152	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1095	0.367	ug/l #	42
59) 2-Hexanone	10.74	43	14706	22.924	ug/l #	49
71) Bromoform	12.37	173	1021	0.739	ug/l #	1
74) N-amyl acetate	12.00	43	1058	3.459	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	53470	27.885	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	53470	76.053	ug/l #	14
95) Naphthalene	15.11	128	140	3.510	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

MSVOA_N

ClientSampled :

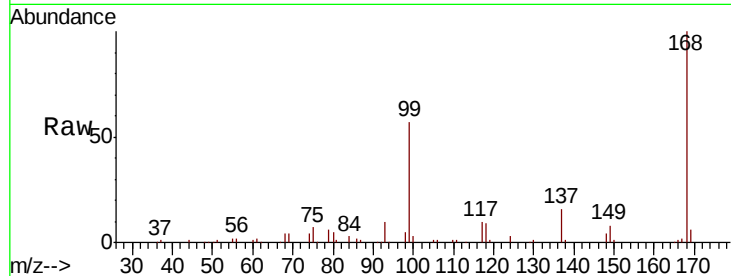
RO-1

Tot Ion:168 Resp: 138954

Ion Ratio Lower Upper

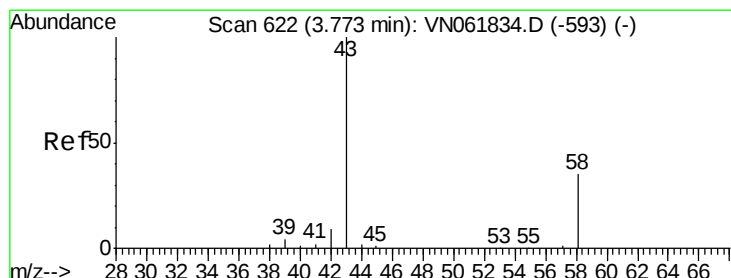
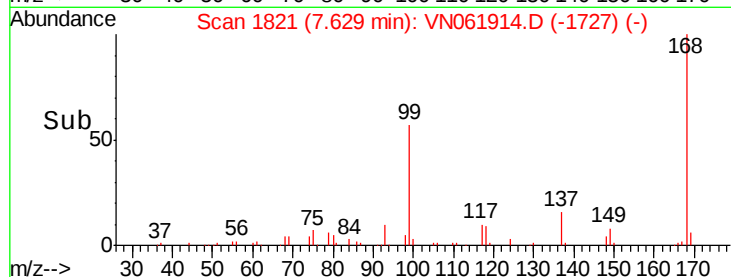
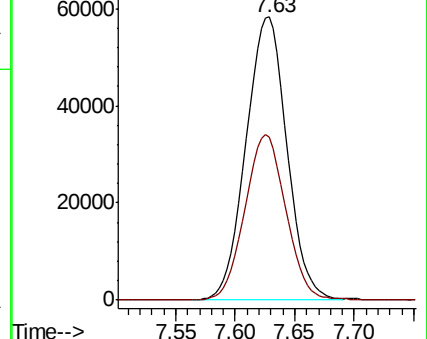
168 100

99 57.5 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 21.640 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061914.D

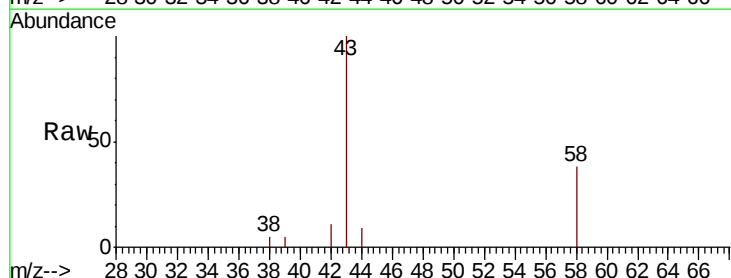
Acq: 18 Jun 2020 20:52

Tgt Ion: 43 Resp: 11912

Ion Ratio Lower Upper

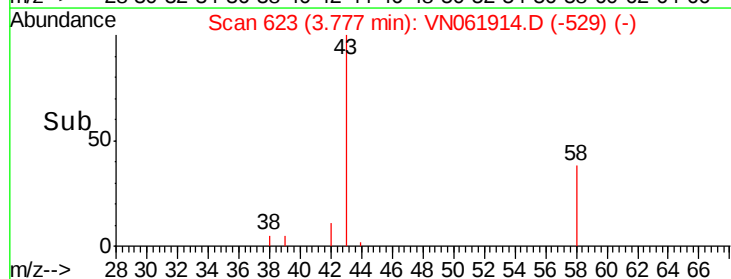
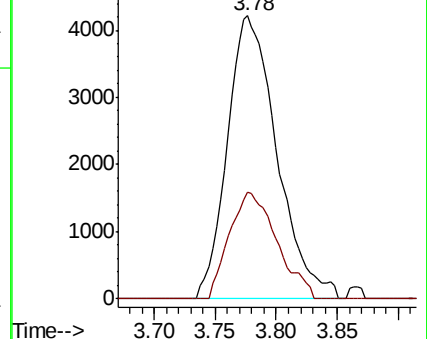
43 100

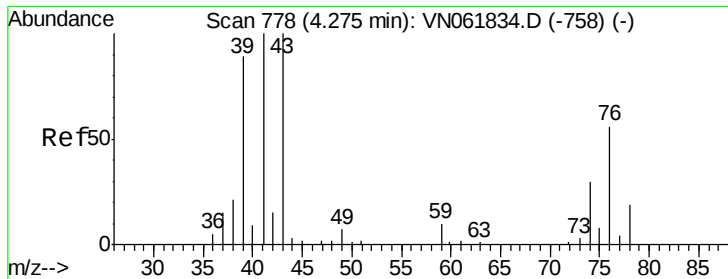
58 37.6 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

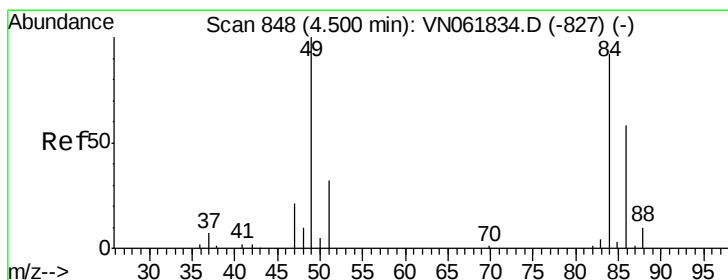
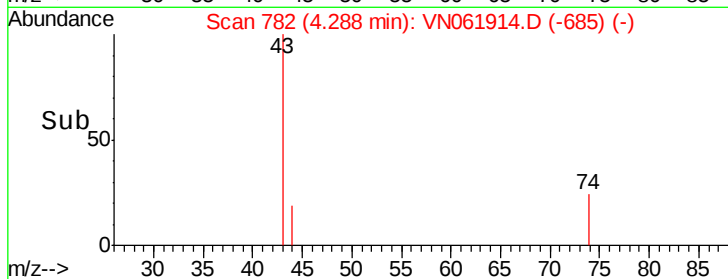
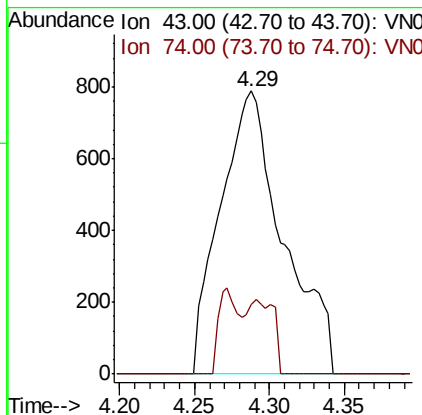
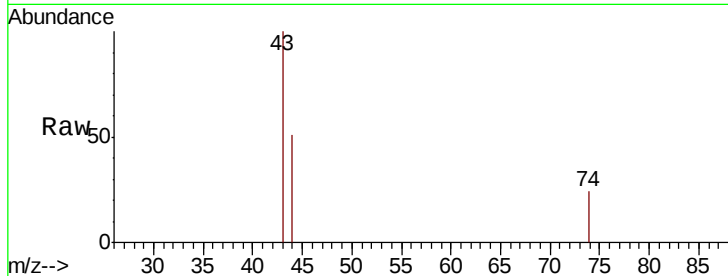




#18
Methyl Acetate
Concen: 1.453 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061914.D
Acq: 18 Jun 2020 20:52

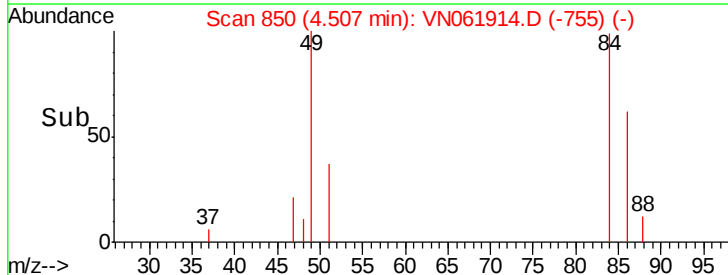
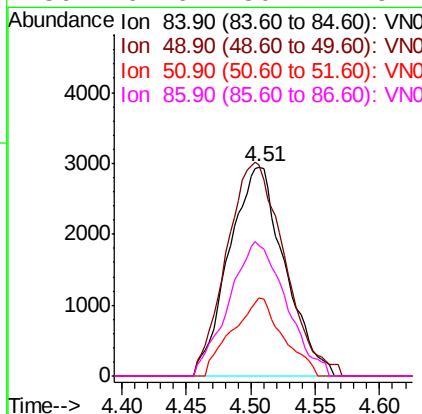
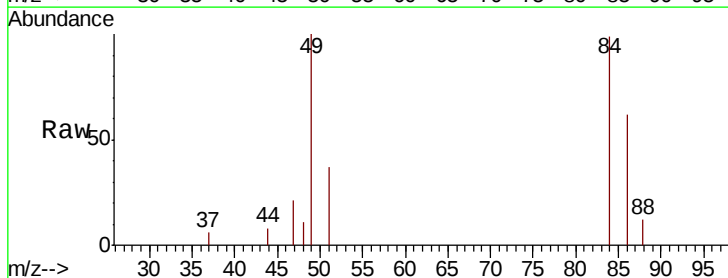
Instrument :
MSVOA_N
ClientSampleId :
RO-1

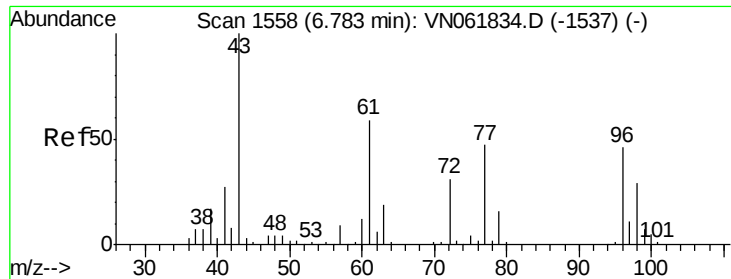
Tot Ion: 43 Resp: 2303
Ion Ratio Lower Upper
43 100
74 9.7 23.0 34.4#



#20
Methylene Chloride
Concen: 4.936 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061914.D
Acq: 18 Jun 2020 20:52

Tgt Ion: 84 Resp: 8853
Ion Ratio Lower Upper
84 100
49 100.9 87.0 130.4
51 37.3 27.8 41.6
86 62.6 50.2 75.2

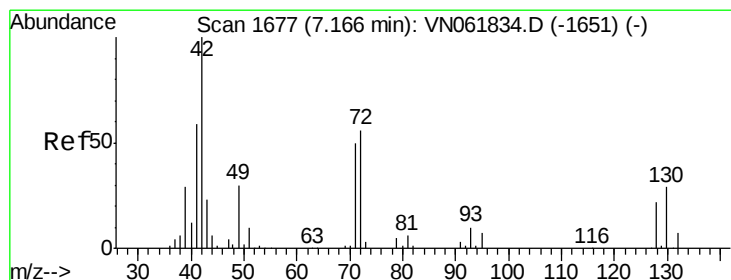
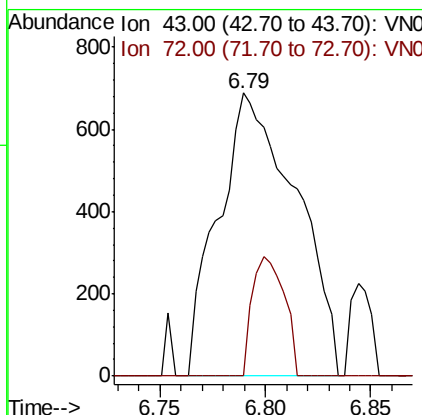
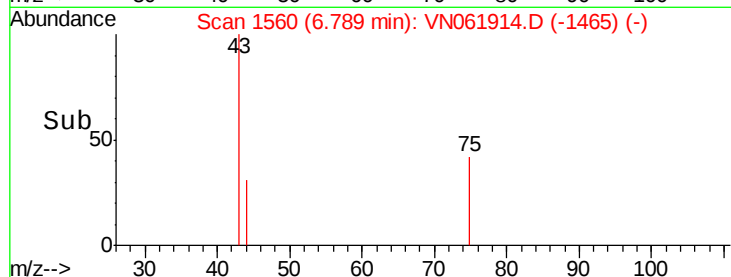
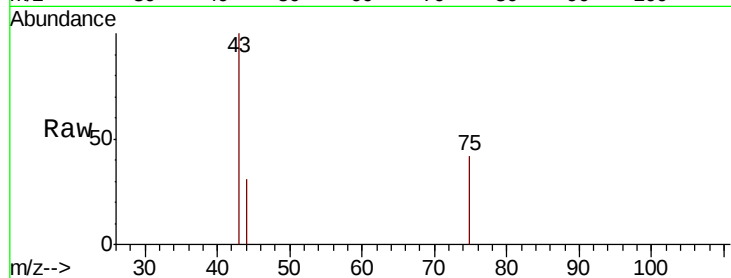




#25
2-Butanone
Concen: 2.200 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061914.D
Acq: 18 Jun 2020 20:52

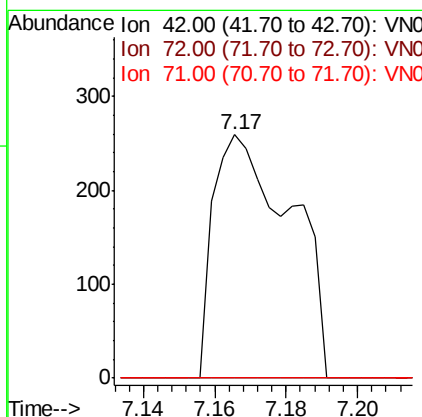
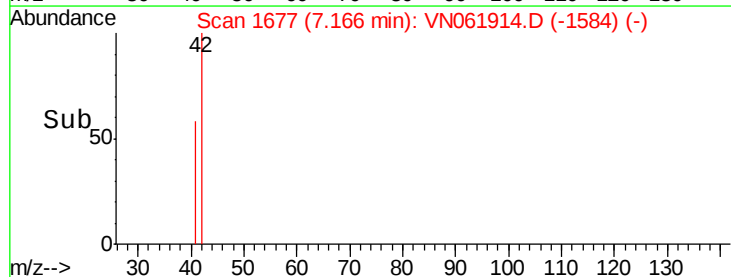
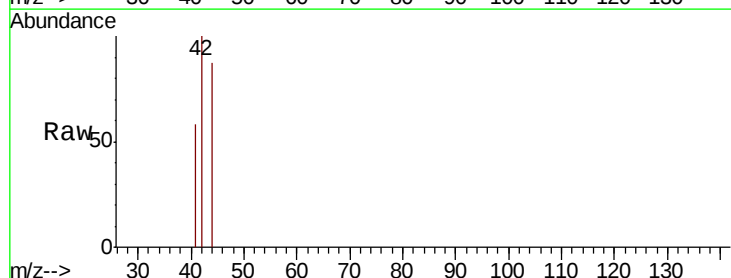
Instrument :
MSVOA_N
ClientSampled :
RO-1

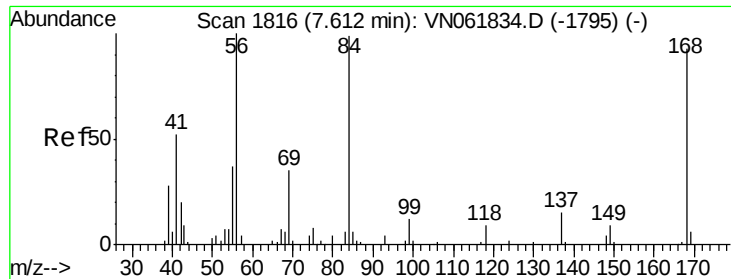
Tot Ion: 43 Resp: 1767
Ion Ratio Lower Upper
43 100
72 0.0 24.6 37.0#



#29
Tetrahydrofuran
Concen: 0.734 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN061914.D
Acq: 18 Jun 2020 20:52

Tgt Ion: 42 Resp: 388
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

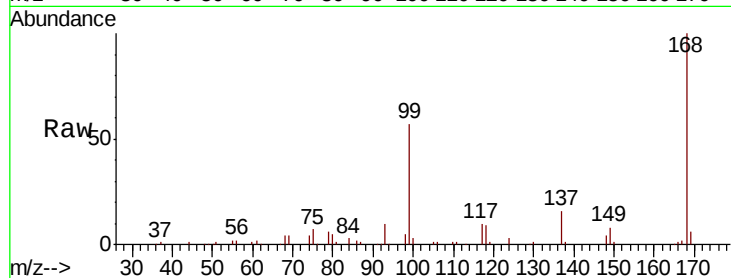




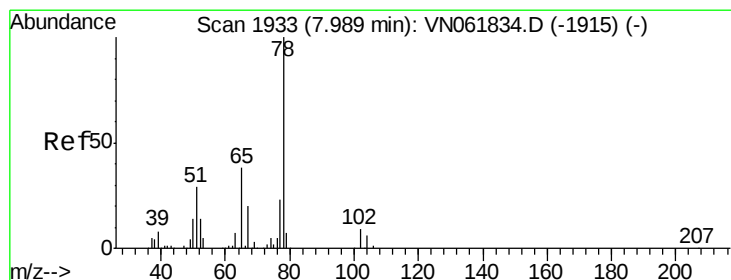
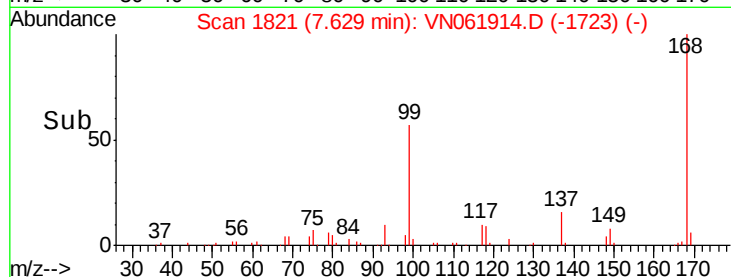
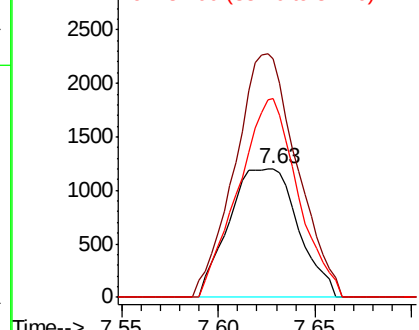
#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061914.D
Acq: 18 Jun 2020 20:52

Instrument :
MSVOA_N
ClientSampled :
RO-1

Tot Ion: 56 Resp: 2977
Ion Ratio Lower Upper
56 100
69 185.3 27.7 41.5#
84 154.5 79.1 118.7#

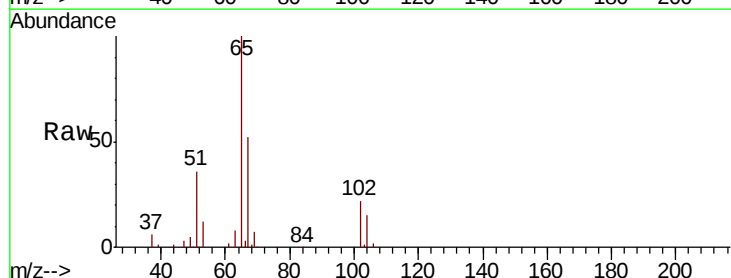


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

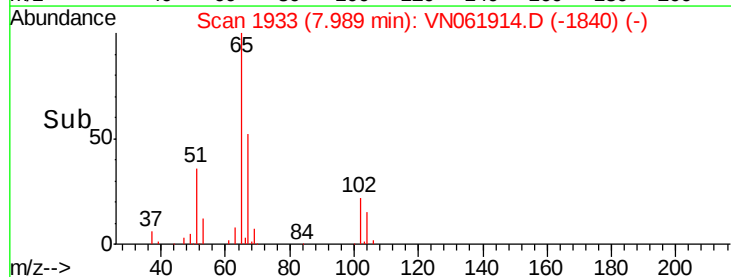
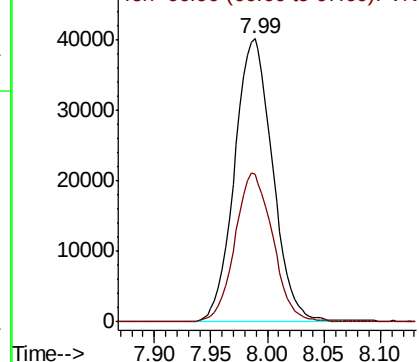


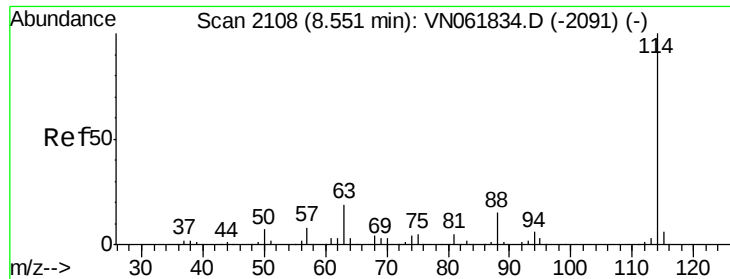
#33
1,2-Dichloroethane-d4
Concen: 50.383 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061914.D
Acq: 18 Jun 2020 20:52

Tgt Ion: 65 Resp: 93893
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.2



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

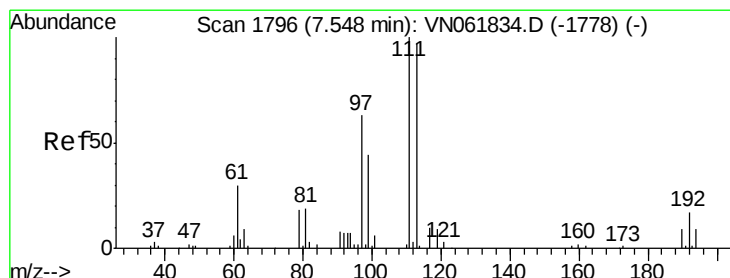
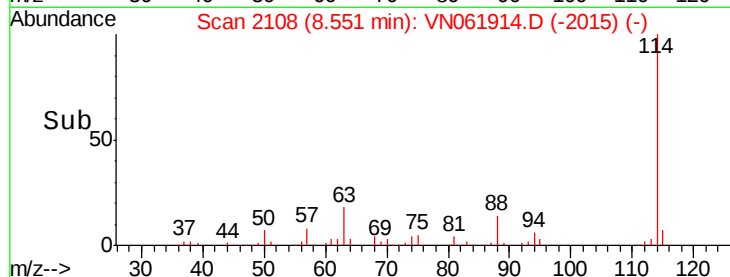
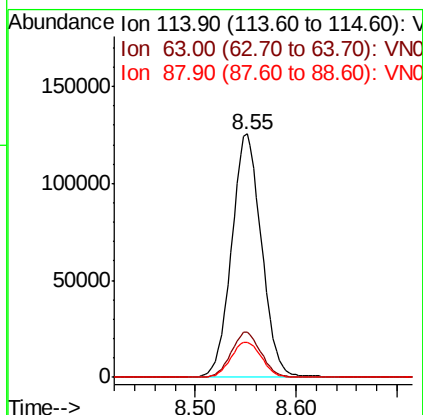
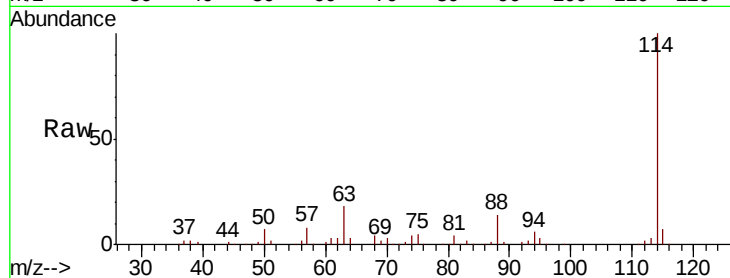




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

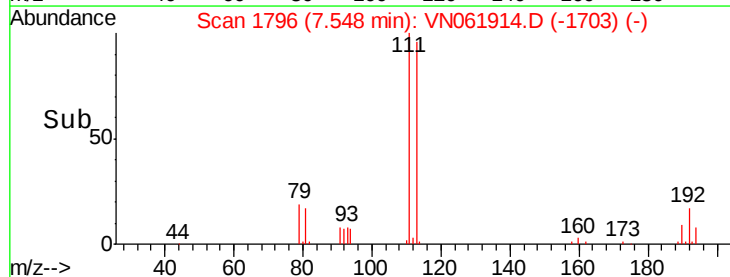
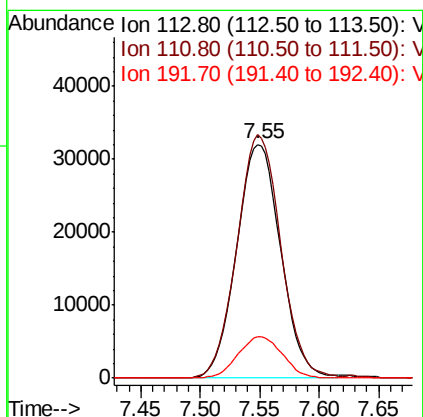
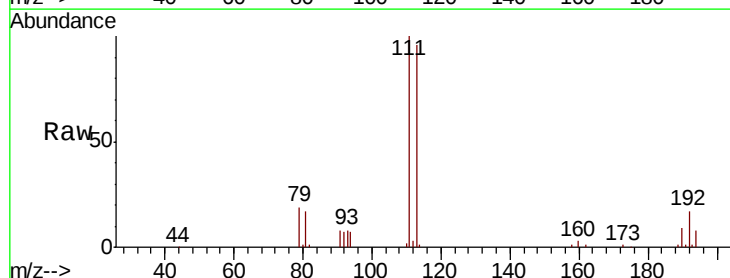
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-1

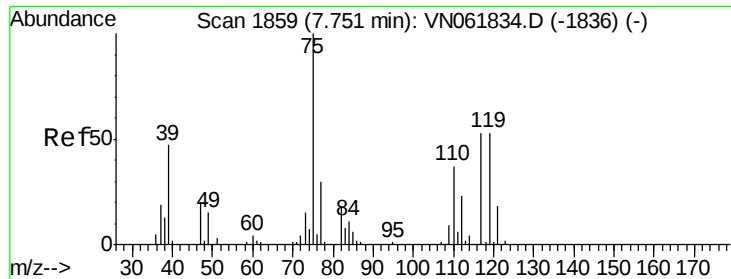
Tot Ion:114 Resp: 258047
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 37.6
 88 14.4 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 49.845 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

Tgt Ion:113 Resp: 82287
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.7 125.5
 192 17.8 13.9 20.9

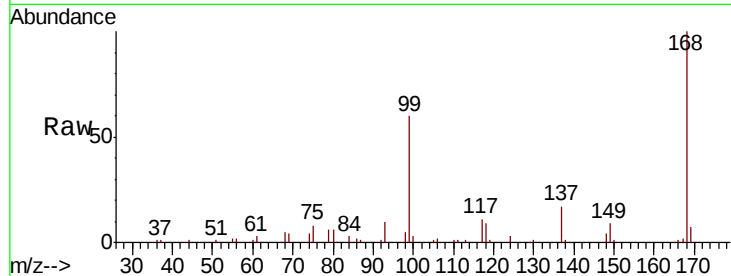




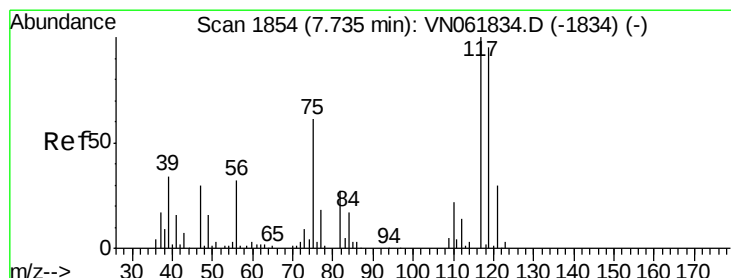
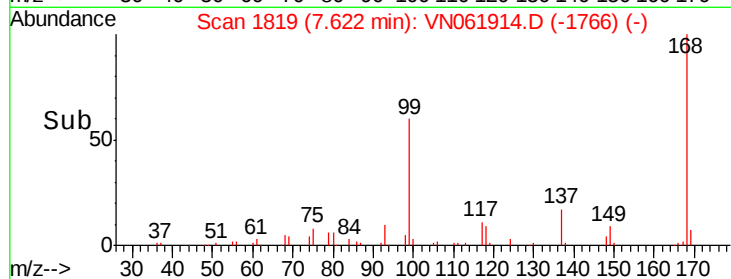
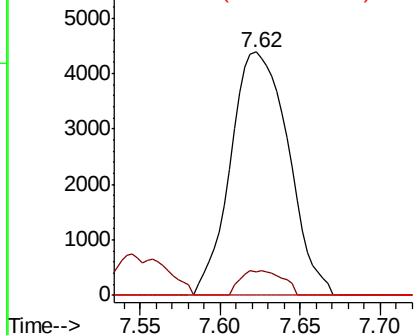
#36
 1,1-Dichloropropene
 Concen: 4.612 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-1

Tot Ion	75	Resp	10856
Ion Ratio	100	Lower	Upper
75	100		
110	7.4	18.2	54.6#
77	0.0	24.2	36.4#

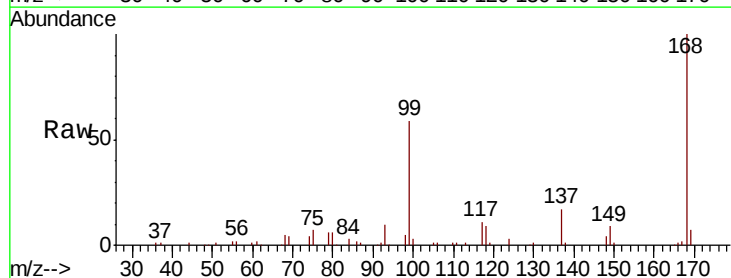


Abundance Ion 74.90 (74.60 to 75.60): VN061914.D (-1766) (-)
 Ion 109.90 (109.60 to 110.60): VN061914.D (-1766) (-)
 Ion 76.90 (76.60 to 77.60): VN061914.D (-1766) (-)

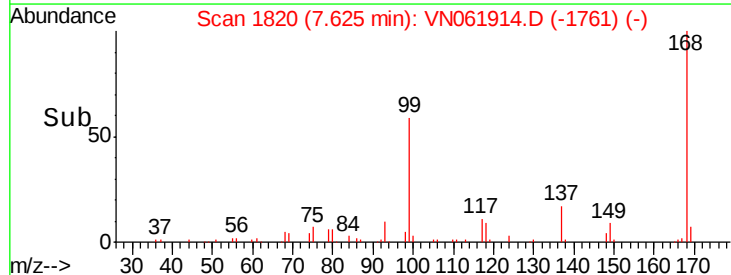
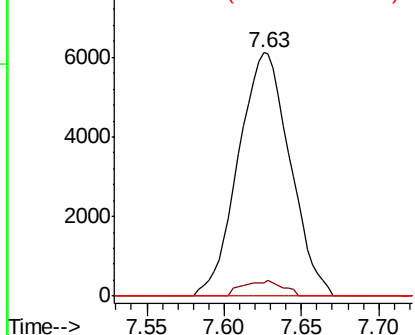


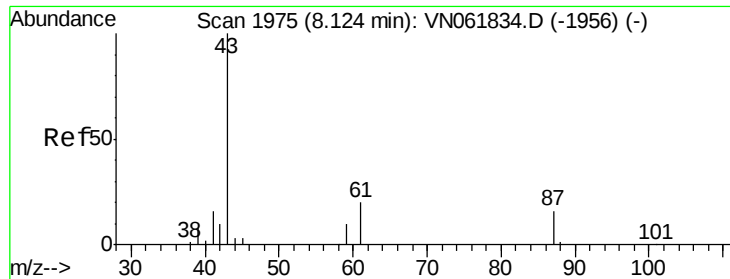
#38
 Carbon Tetrachloride
 Concen: 6.084 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

Tgt Ion	117	Resp	14181
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.6	75.8	113.6#
121	0.0	23.8	35.6#



Abundance Ion 116.80 (116.50 to 117.50): VN061914.D (-1761) (-)
 Ion 118.80 (118.50 to 119.50): VN061914.D (-1761) (-)
 Ion 120.80 (120.50 to 121.50): VN061914.D (-1761) (-)





#43

Isopropyl Acetate

Concen: 6.507 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

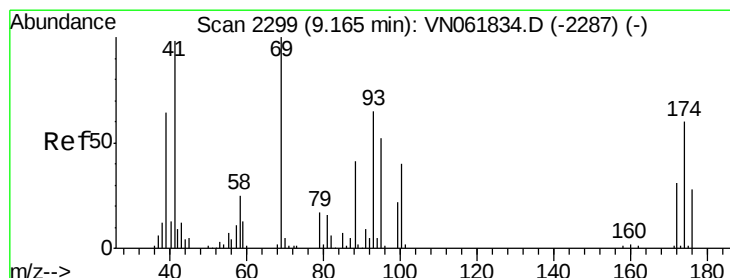
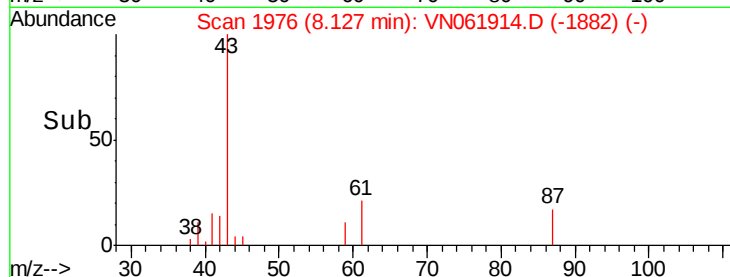
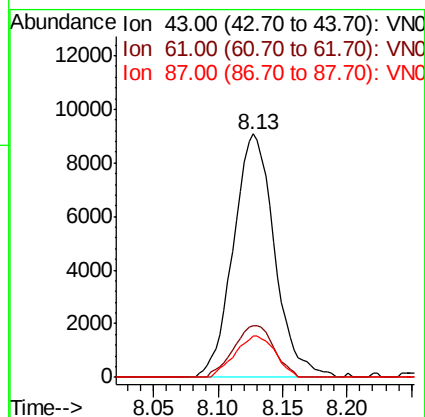
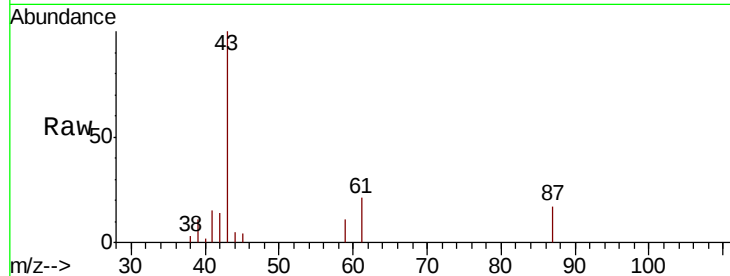
MSVOA_N

ClientSampled :

RO-1

Tot Ion: 43 Resp: 20154

Ion	Ratio	Lower	Upper
43	100		
61	20.8	24.0	36.0#
87	16.8	12.5	18.7



#48

Methyl methacrylate

Concen: 1.273 ug/l

RT: 9.15 min Scan# 2294

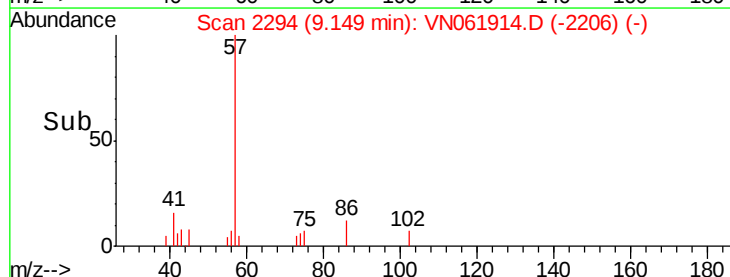
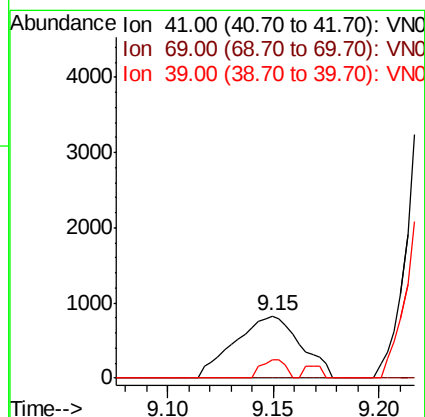
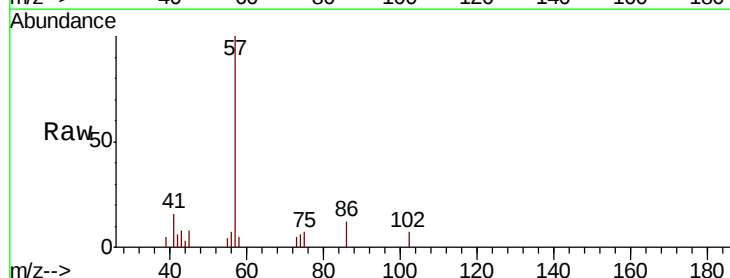
Delta R.T. -0.02 min

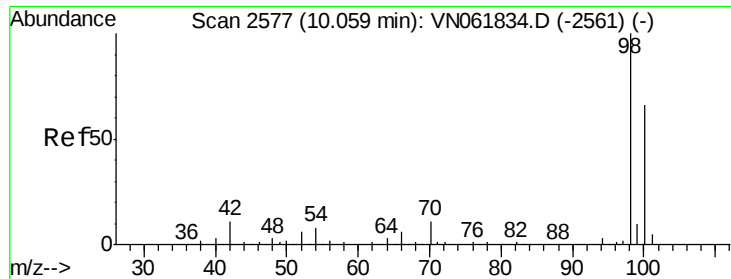
Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Tgt Ion: 41 Resp: 1793

Ion	Ratio	Lower	Upper
41	100		
69	0.0	83.0	124.4#
39	0.0	55.1	82.7#





#50

Toluene-d8

Concen: 50.743 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

MSVOA_N

ClientSampled :

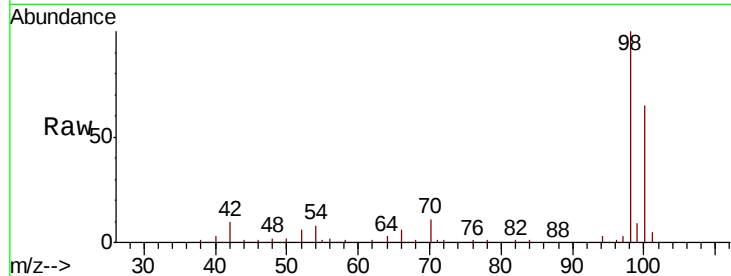
RO-1

Tot Ion: 98 Resp: 329331

Ion Ratio Lower Upper

98 100

100 65.0 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

200000

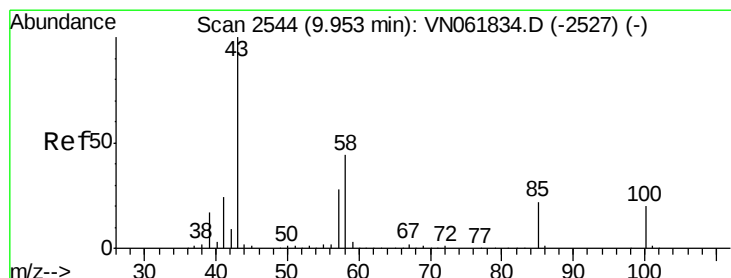
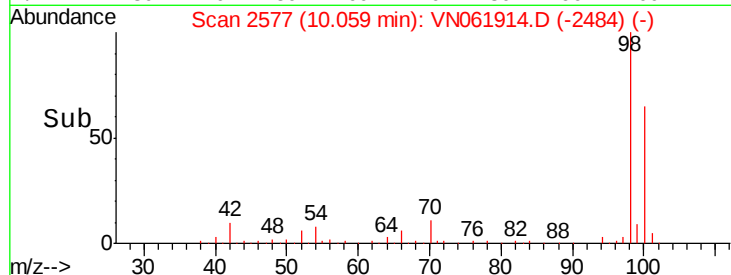
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.843 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061914.D

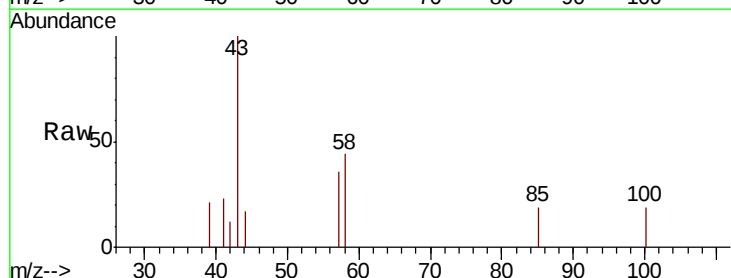
Acq: 18 Jun 2020 20:52

Tgt Ion: 43 Resp: 5204

Ion Ratio Lower Upper

43 100

58 29.8 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

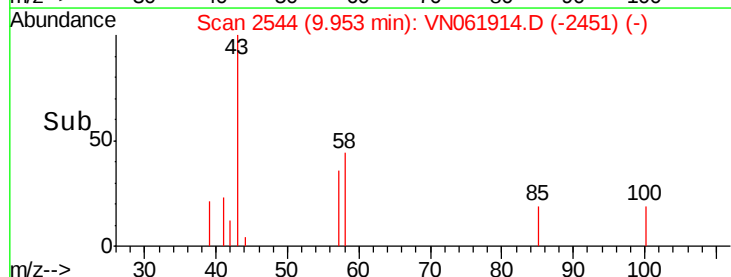
Ion 58.00 (57.70 to 58.70): VN0

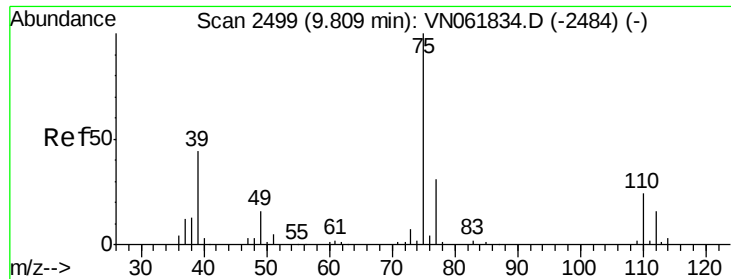
10000

5000

0

Time-->

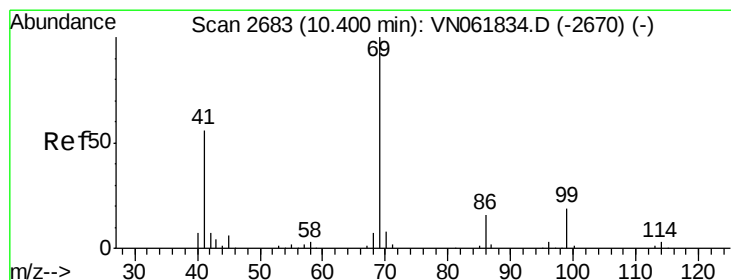
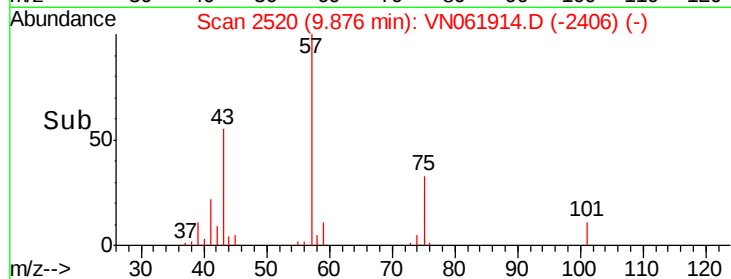
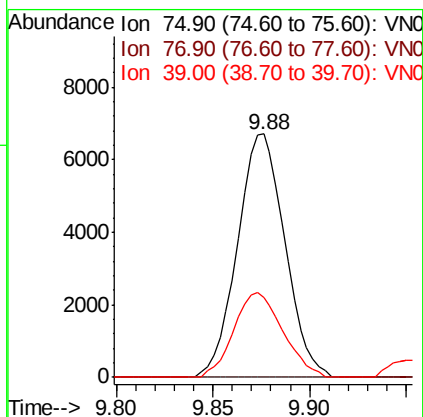
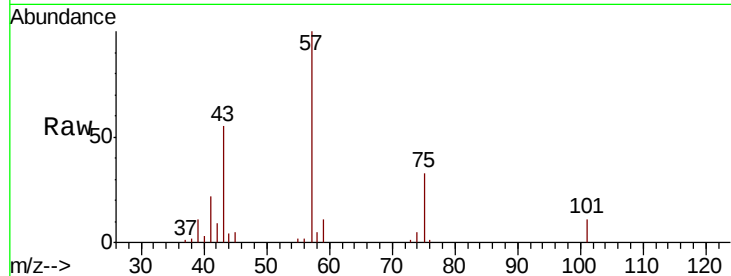




#54
 cis-1,3-Dichloropropene
 Concen: 3.937 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

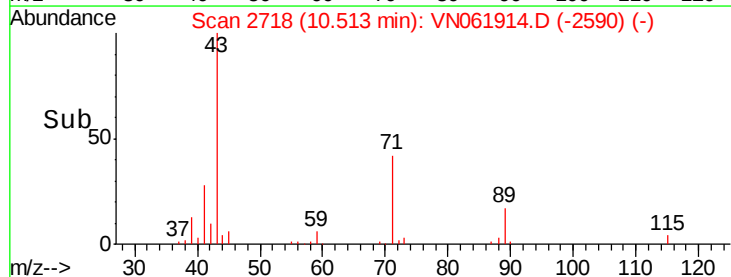
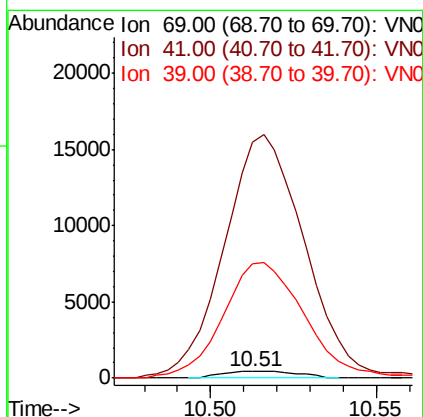
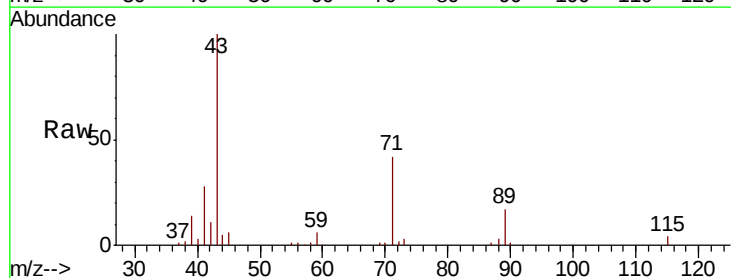
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-1

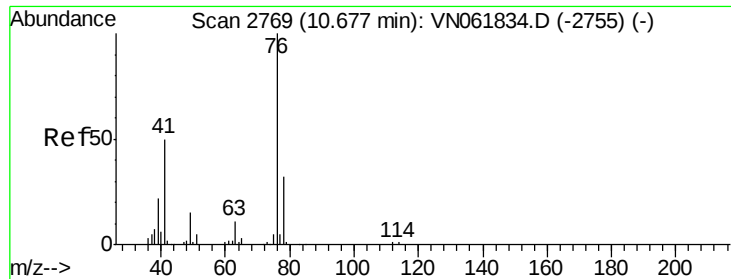
Tot Ion: 75 Resp: 11468
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 32.9 35.4 53.0#



#56
 Ethyl methacrylate
 Concen: 3.152 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

Tgt Ion: 69 Resp: 714
 Ion Ratio Lower Upper
 69 100
 41 3800.8 44.9 67.3#
 39 1813.9 30.0 45.0#

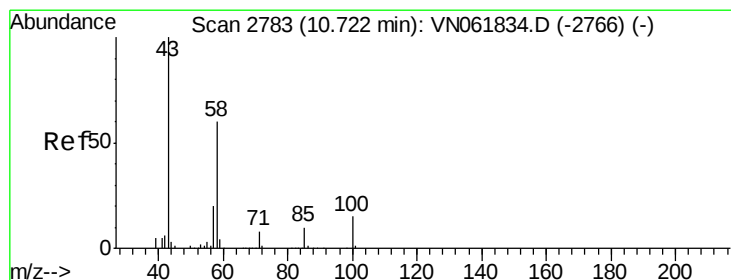
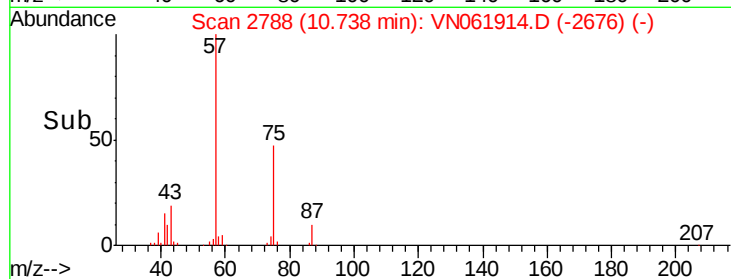
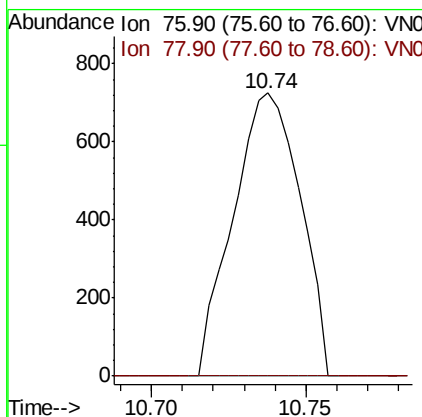
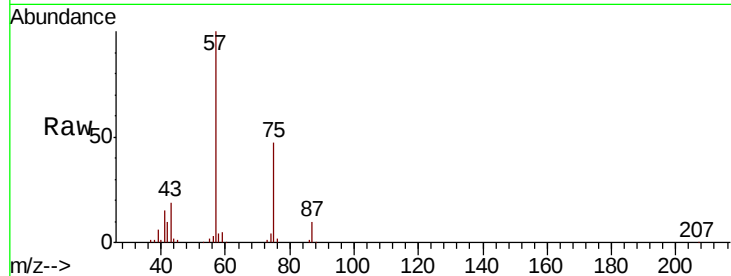




#57
 1,3-Dichloropropane
 Concen: 0.367 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

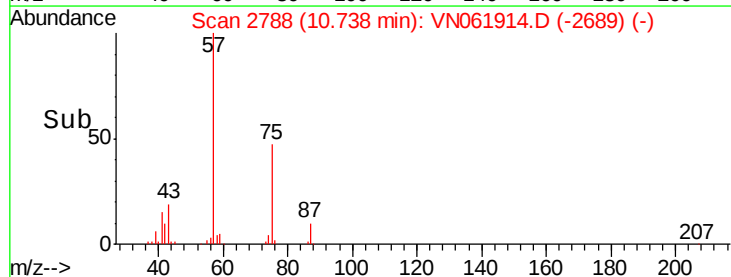
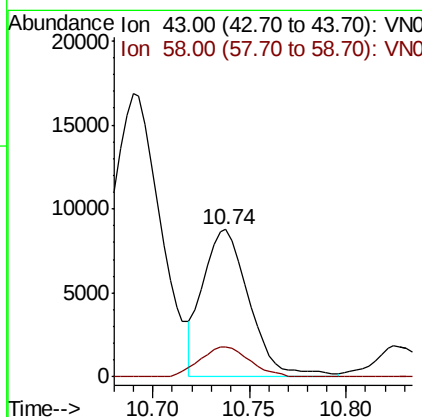
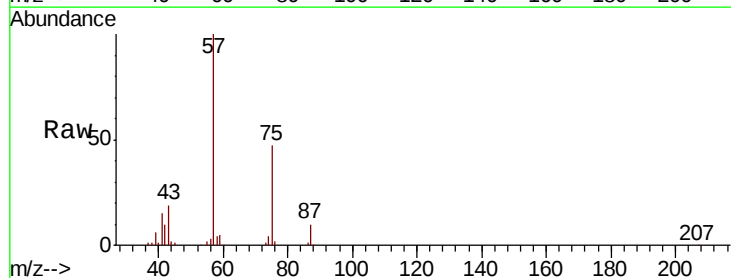
Instrument :
 MSVOA_N
 ClientSampled :
 RO-1

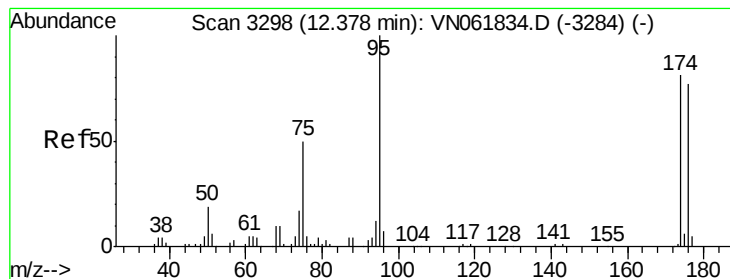
Tot Ion: 76 Resp: 1095
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 22.924 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061914.D
 Acq: 18 Jun 2020 20:52

Tgt Ion: 43 Resp: 14706
 Ion Ratio Lower Upper
 43 100
 58 21.7 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 48.242 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

RO-1

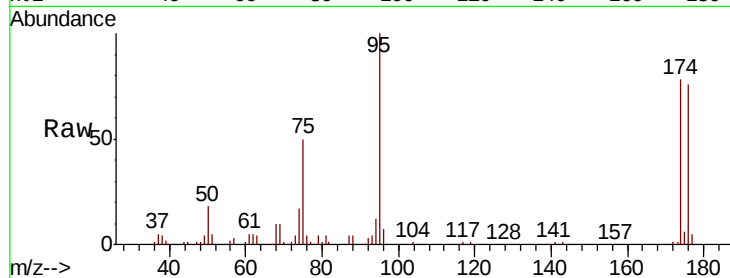
Tot Ion: 95 Resp: 107398

Ion Ratio Lower Upper

95 100

174 77.7 0.0 158.6

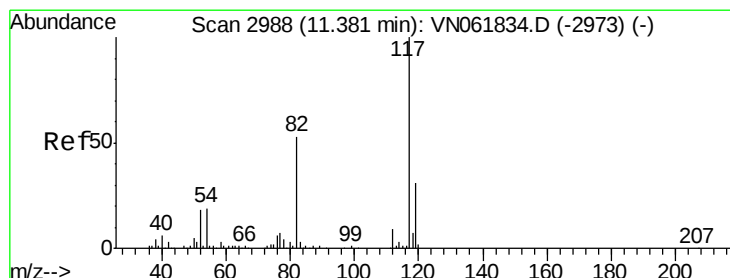
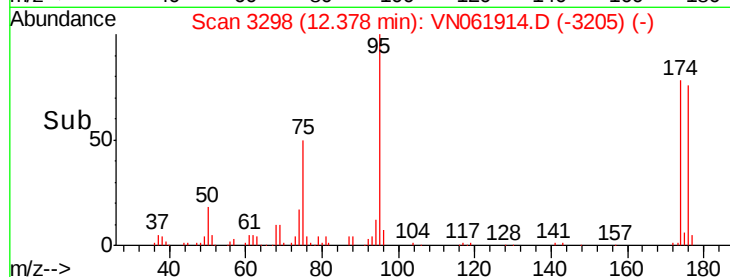
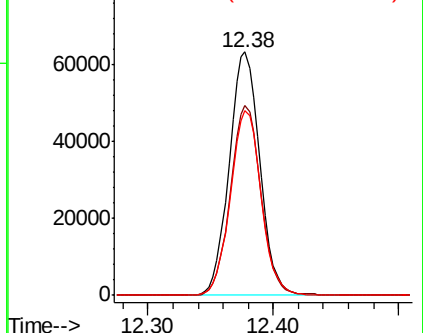
176 75.8 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

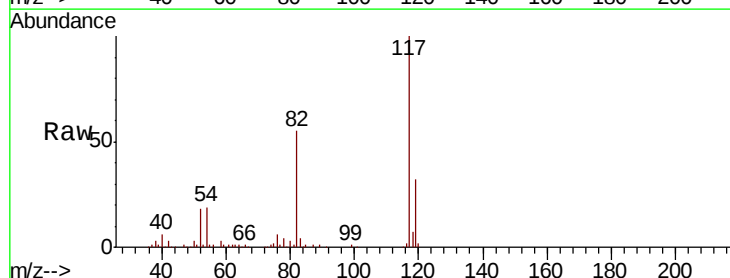
Tgt Ion: 117 Resp: 257626

Ion Ratio Lower Upper

117 100

82 54.8 42.6 64.0

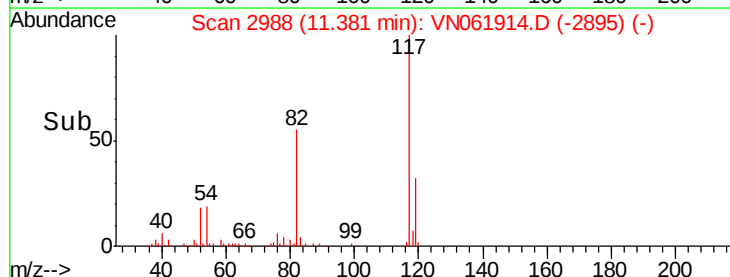
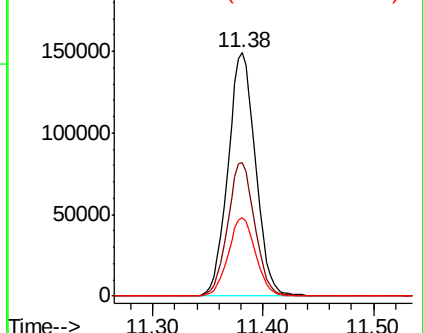
119 32.2 24.7 37.1

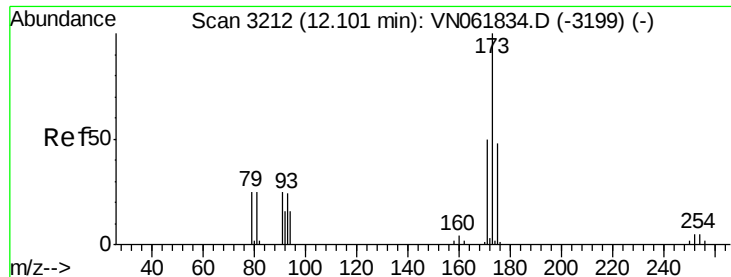


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#71

Bromoform

Concen: 0.739 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

MSVOA_N

ClientSampled :

RO-1

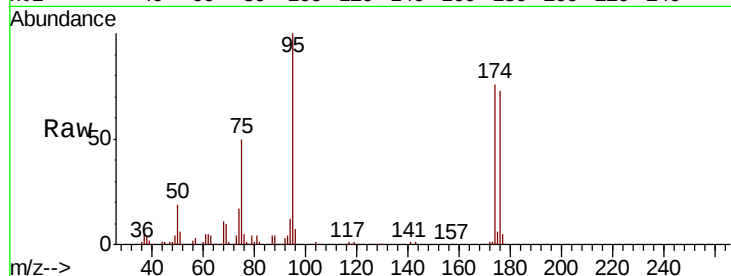
Tot Ion:173 Resp: 1021

Ion Ratio Lower Upper

173 100

175 520.4 23.9 71.7#

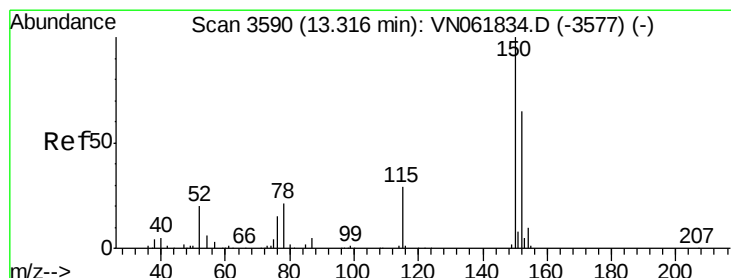
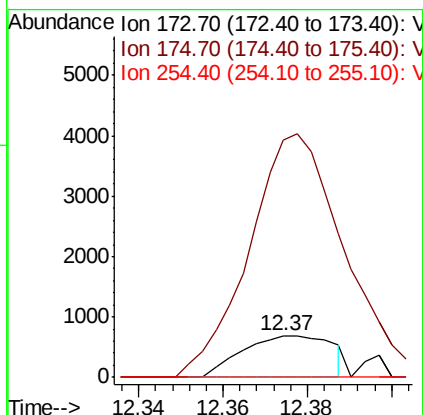
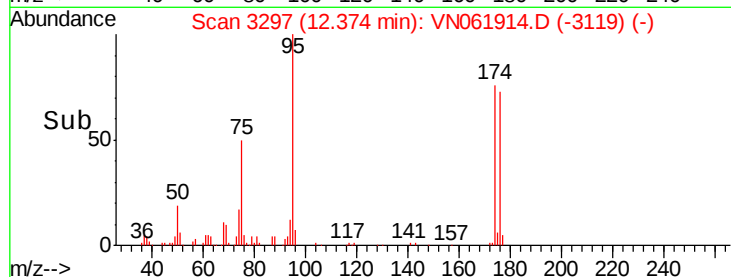
254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

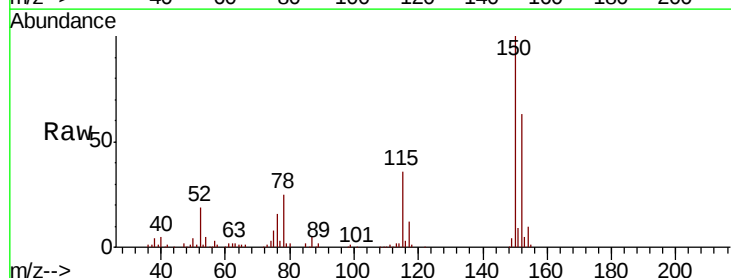
Tgt Ion:152 Resp: 97672

Ion Ratio Lower Upper

152 100

115 57.2 29.1 87.3

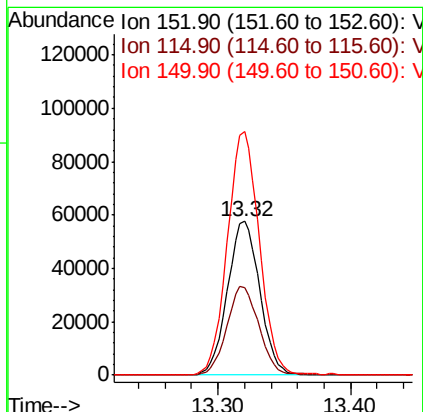
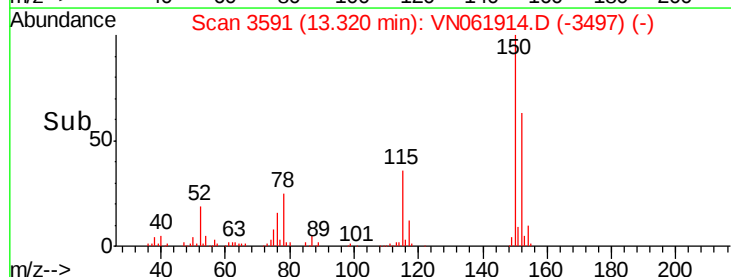
150 156.5 0.0 347.6

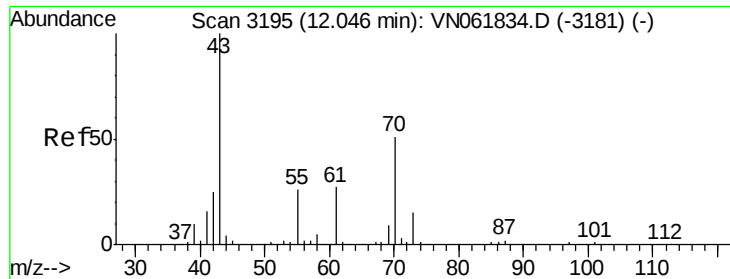


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.459 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

RO-1

Tot Ion: 43 Resp: 1058

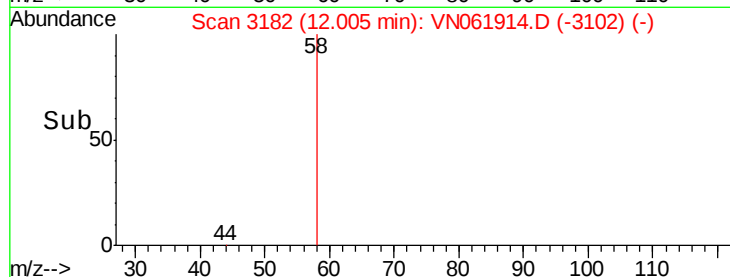
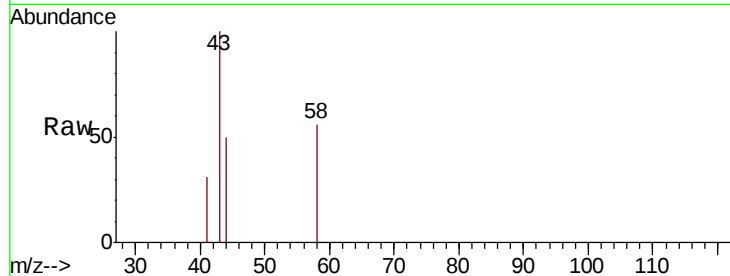
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

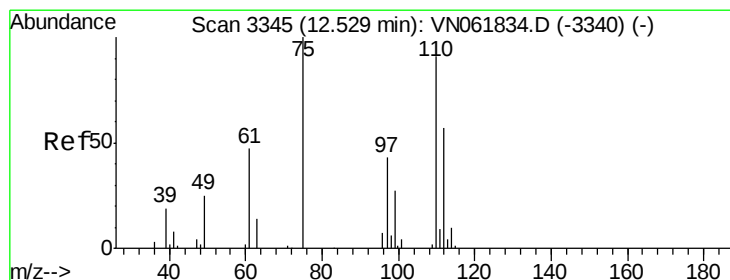
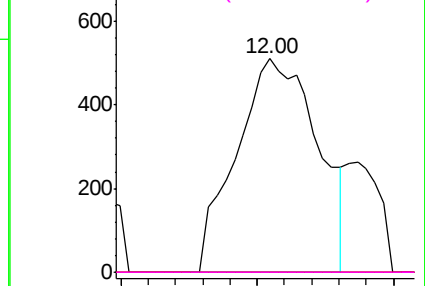


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.885 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061914.D

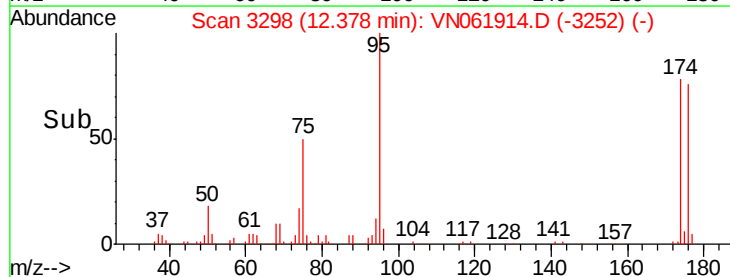
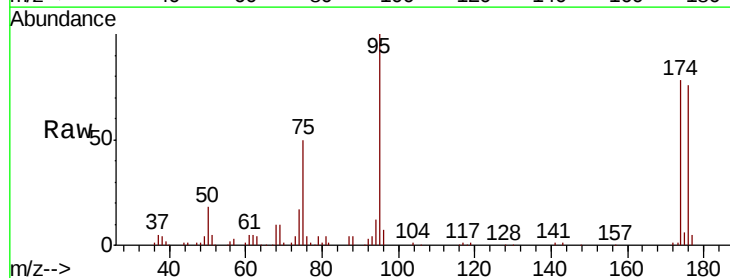
Acq: 18 Jun 2020 20:52

Tgt Ion: 75 Resp: 53470

Ion Ratio Lower Upper

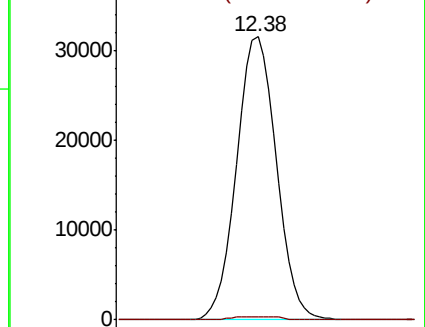
75 100

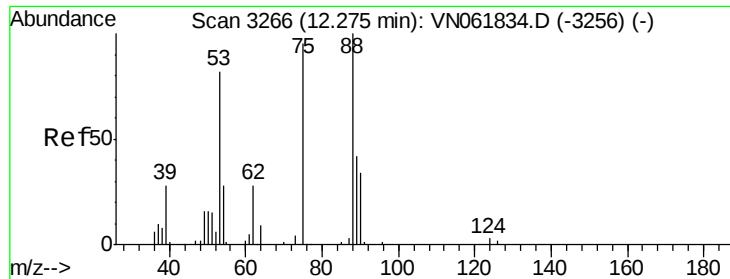
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.053 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

Instrument :

MSVOA_N

ClientSampled :

RO-1

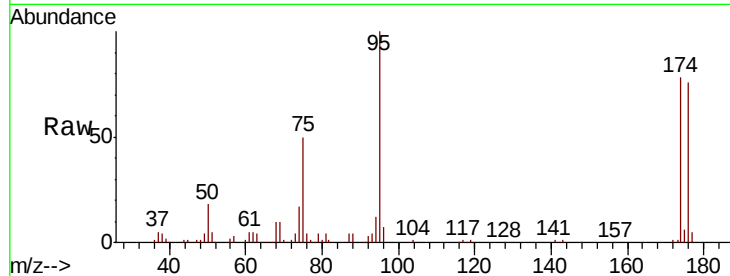
Tot Ion: 75 Resp: 53470

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

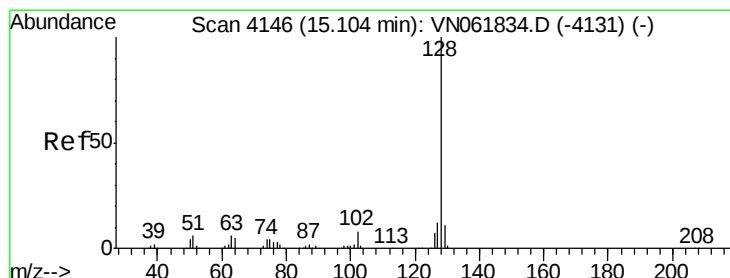
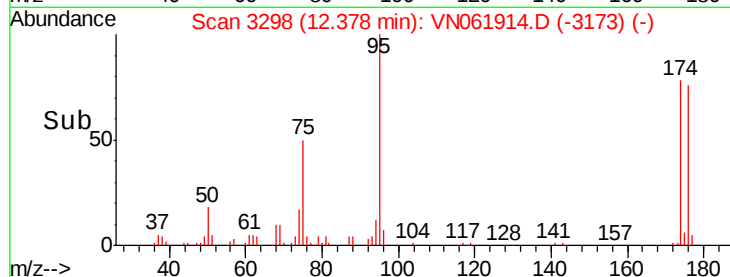
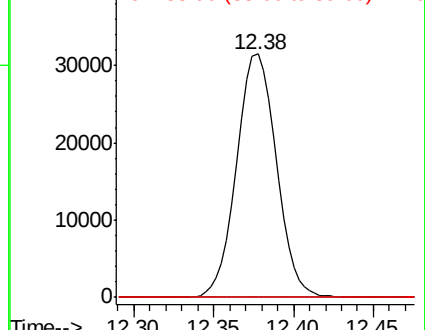
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)



#95

Naphthalene

Concen: 3.510 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN061914.D

Acq: 18 Jun 2020 20:52

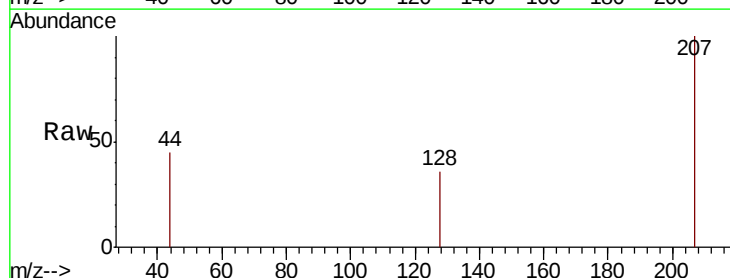
Tgt Ion: 128 Resp: 140

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061834.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN061834.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN061834.D (-4131) (-)

