

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065006.D
 Acq On : 9 Dec 2020 7:04
 Operator : JC/MD
 Sample : L4970-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-C-TOP

Quant Time: Dec 09 08:01:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	165527	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	321119	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	333430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	138054	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	106955	55.58	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	111.16%
35) Dibromofluoromethane	7.55	113	98297	51.16	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.32%
50) Toluene-d8	10.06	98	402762	51.30	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.60%
62) 4-Bromofluorobenzene	12.38	95	147497	52.50	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	105.00%

Target Compounds

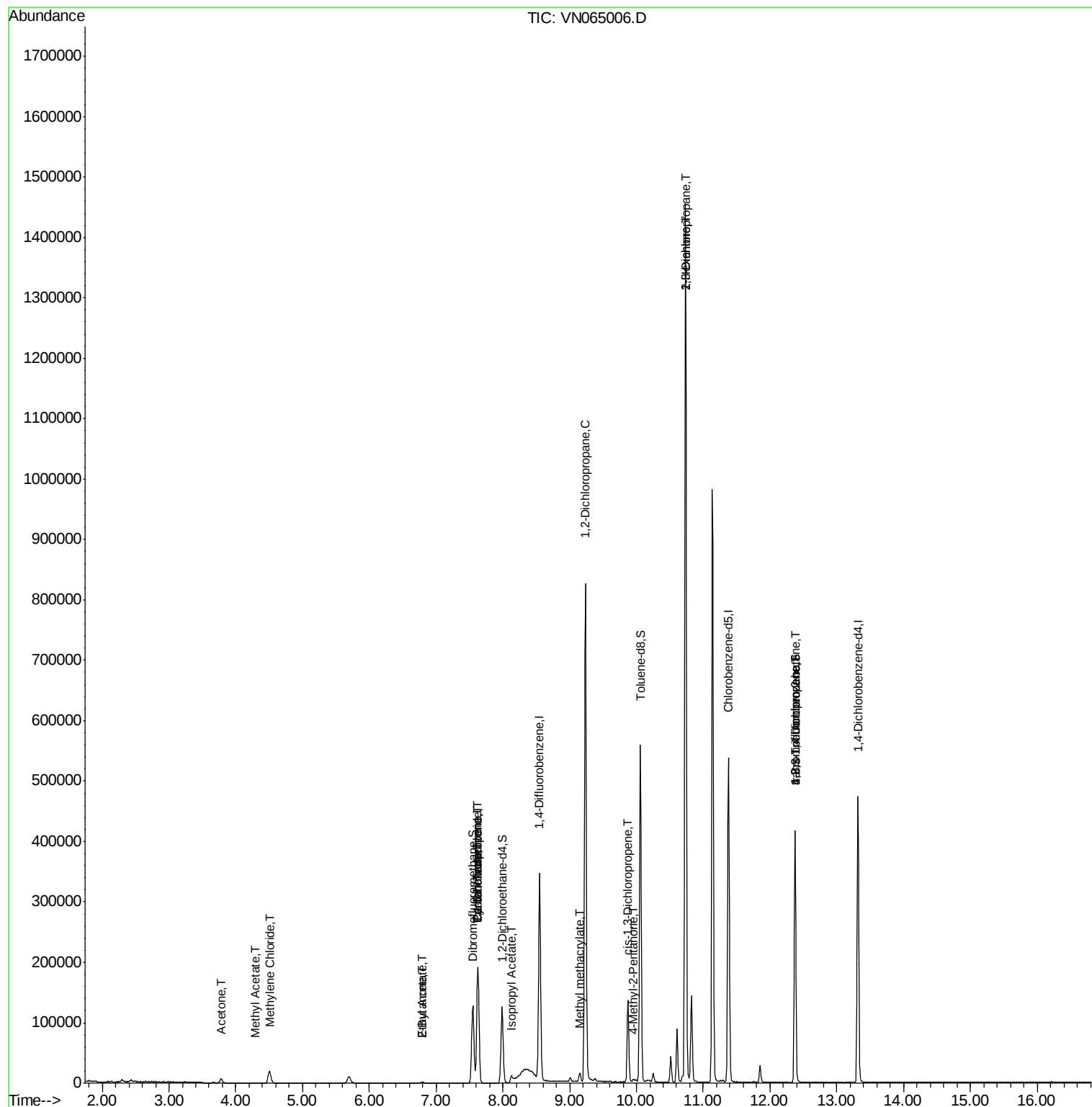
					Qvalue	
16) Acetone	3.78	43	12445	19.673	ug/l	96
18) Methyl Acetate	4.29	43	881	0.463	ug/l #	50
20) Methylene Chloride	4.50	84	15769	7.955	ug/l	98
25) 2-Butanone	6.80	43	1303	1.271	ug/l #	49
31) Cyclohexane	7.62	56	2739	1.021	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11181	3.756	ug/l #	46
37) Ethyl Acetate	6.80	43	1303	0.454	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15608	5.040	ug/l #	17
43) Isopropyl Acetate	8.13	43	19026	4.124	ug/l #	78
45) 1,2-Dichloropropane	9.23	63	889	0.376	ug/l #	43
48) Methyl methacrylate	9.14	41	3956	1.794	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	2982	1.077	ug/l #	82
54) cis-1,3-Dichloropropene	9.87	75	24071	6.350	ug/l #	62
57) 1,3-Dichloropropane	10.73	76	15407	4.044	ug/l #	42
59) 2-Hexanone	10.74	43	196868	98.763	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	70152	23.596	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	70152	64.670	ug/l #	15

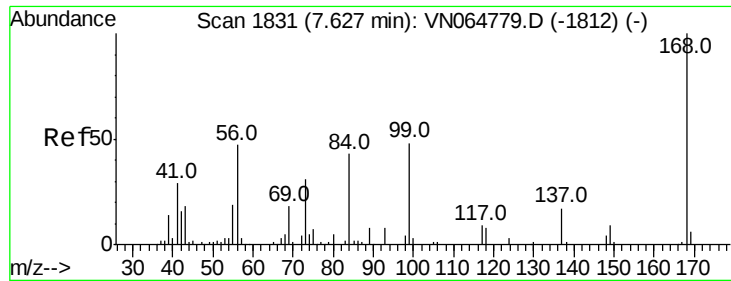
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampleId :

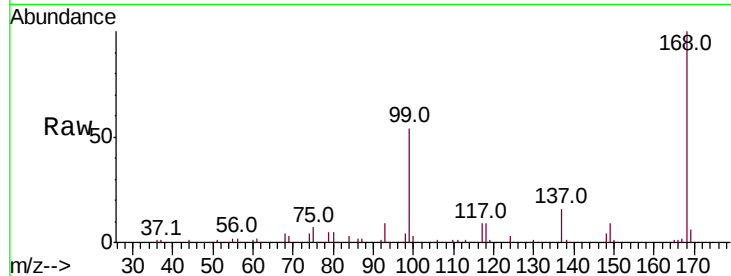
4S1-C-TOP

Tot Ion:168 Resp: 165527

Ion Ratio Lower Upper

168 100

99 54.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

60000

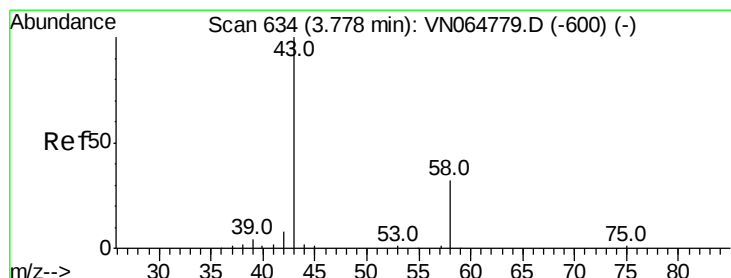
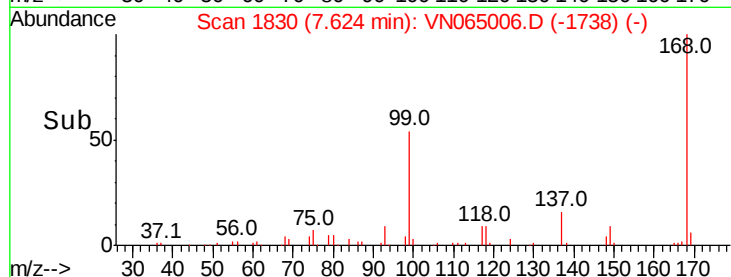
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 19.673 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN065006.D

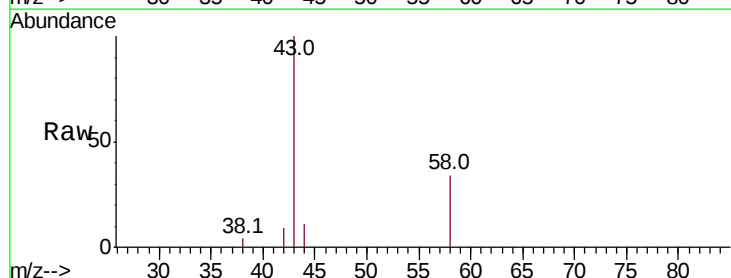
Acq: 9 Dec 2020 7:04

Tgt Ion: 43 Resp: 12445

Ion Ratio Lower Upper

43 100

58 34.4 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

5000

4000

3000

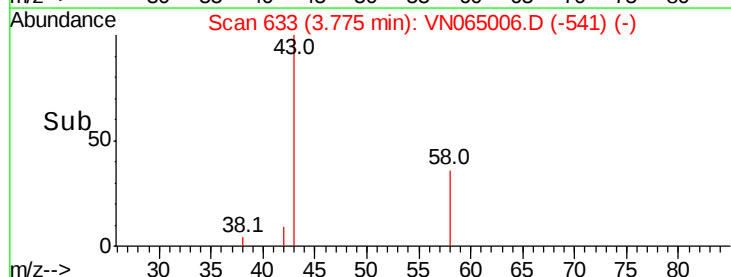
2000

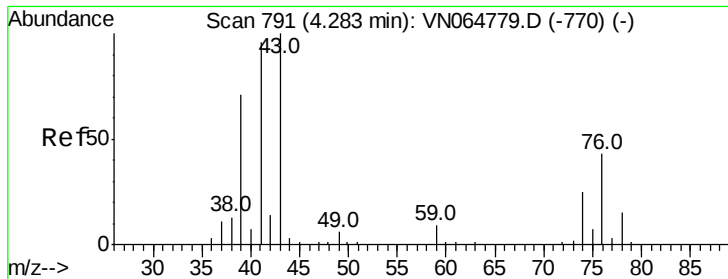
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

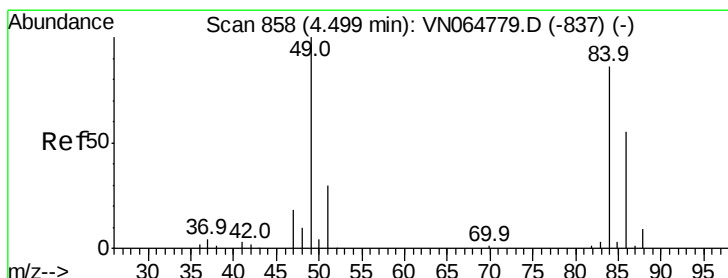
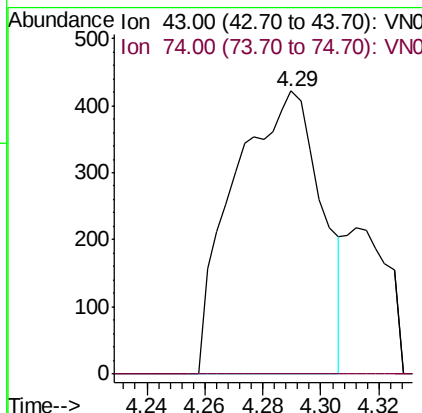
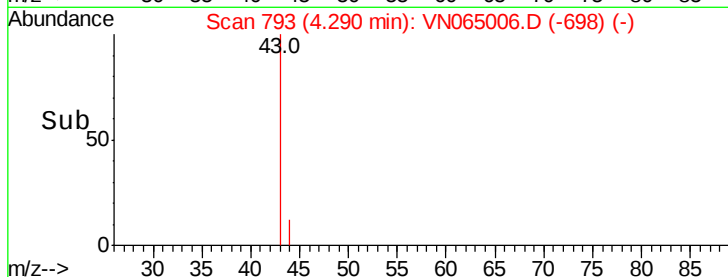
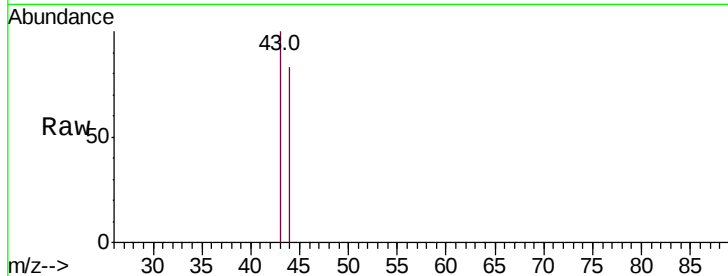




#18
Methyl Acetate
Concen: 0.463 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

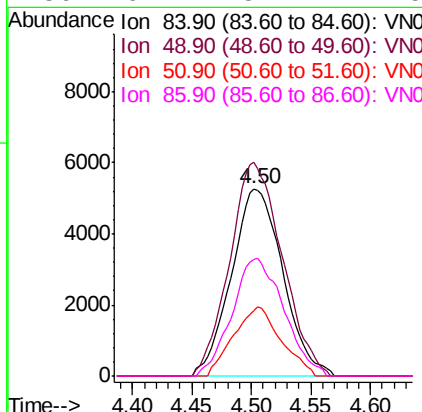
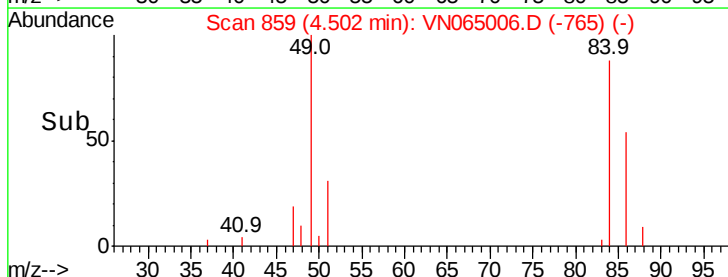
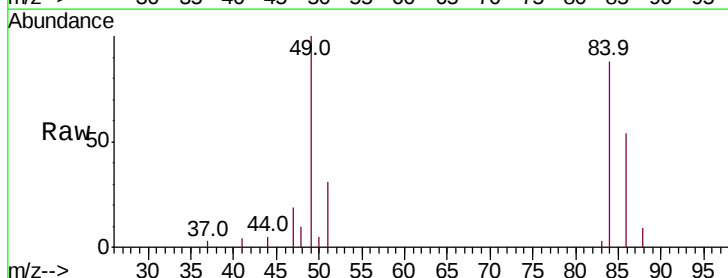
Instrument :
MSVOA_N
ClientSampled :
4S1-C-TOP

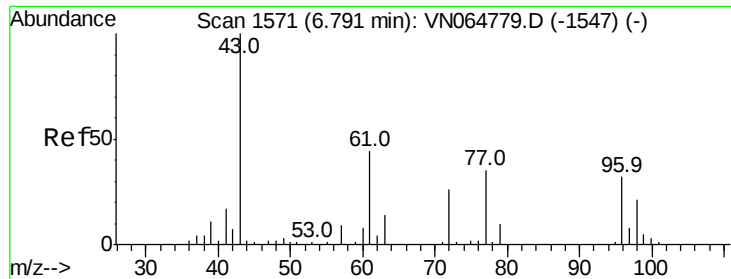
Tot Ion: 43 Resp: 881
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 7.955 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Tgt Ion: 84 Resp: 15769
Ion Ratio Lower Upper
84 100
49 114.1 93.4 140.0
51 35.0 28.2 42.4
86 62.1 51.7 77.5

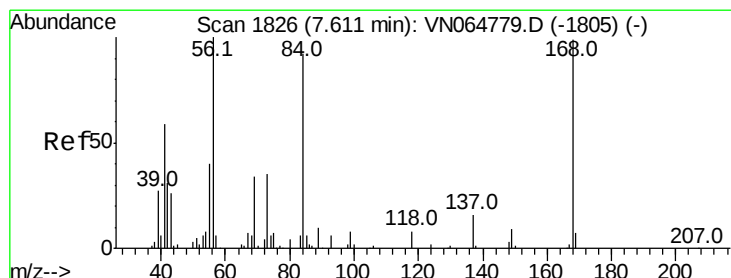
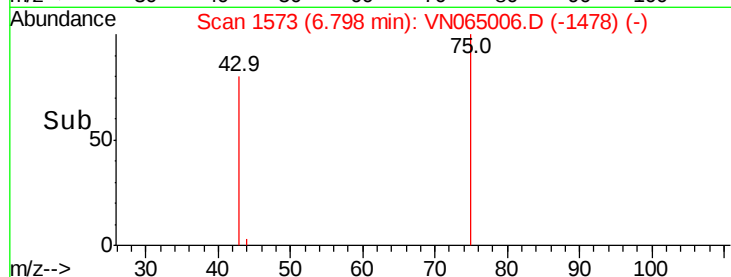
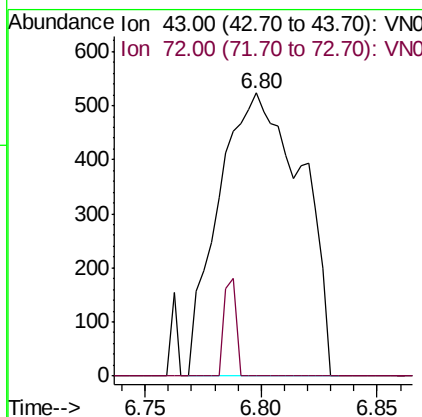
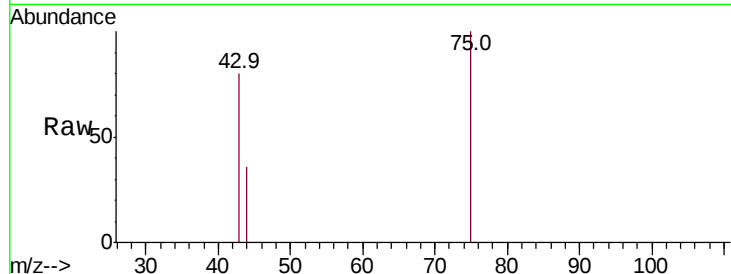




#25
2-Butanone
Concen: 1.271 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

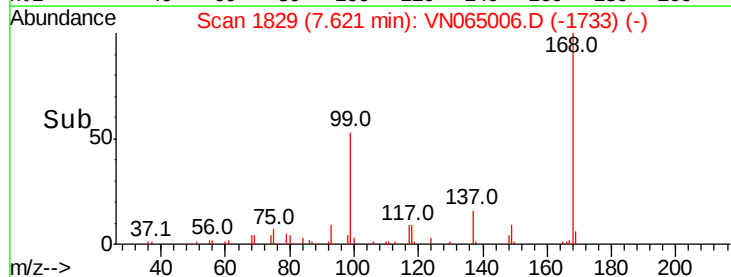
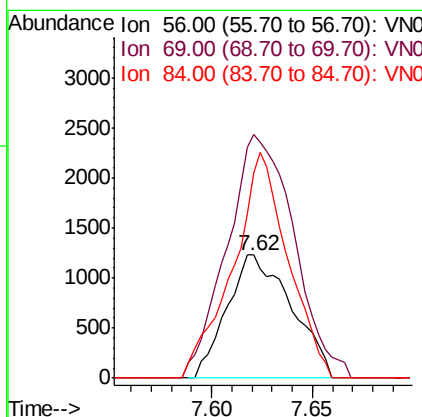
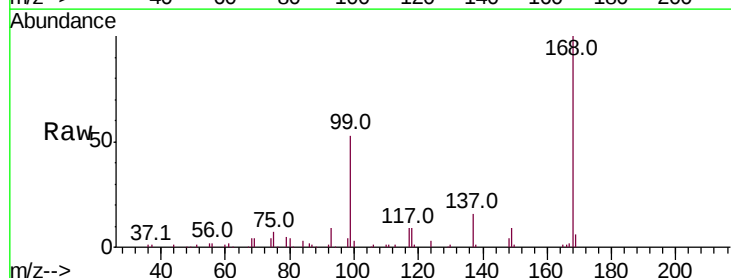
Instrument :
MSVOA_N
ClientSampled :
4S1-C-TOP

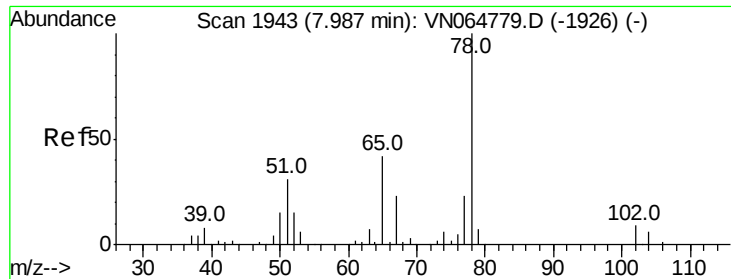
Tot Ion: 43 Resp: 1303
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#31
Cyclohexane
Concen: 1.021 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Tgt Ion: 56 Resp: 2739
Ion Ratio Lower Upper
56 100
69 184.7 27.5 41.3#
84 166.9 73.9 110.9#





#33

1,2-Dichloroethane-d4

Concen: 55.579 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampled :

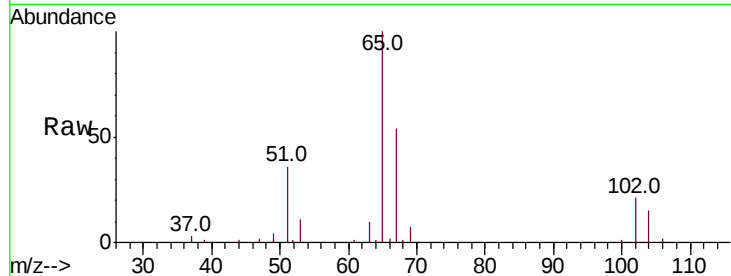
4S1-C-TOP

Tot Ion: 65 Resp: 106955

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN064779.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN064779.D (-1926) (-)

7.99

50000

40000

30000

20000

10000

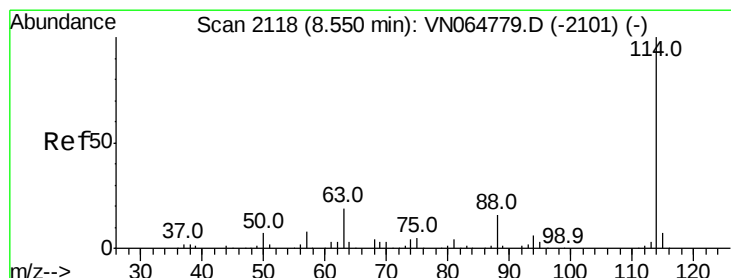
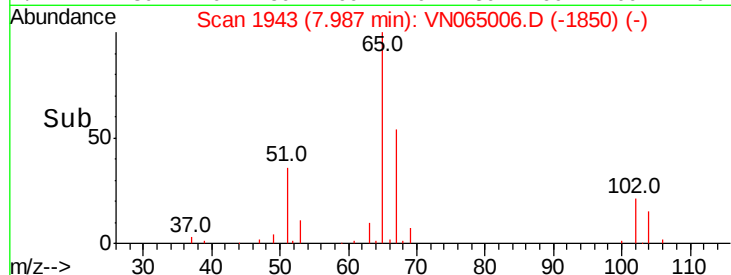
0

Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Tgt Ion: 114 Resp: 321119

Ion Ratio Lower Upper

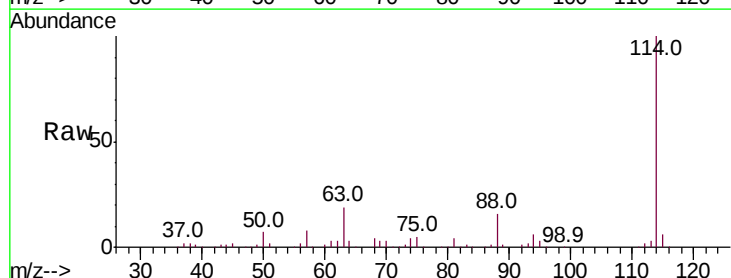
114 100

63 18.9

88 15.7

0.0 38.6

0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): VN064779.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN064779.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN064779.D (-2101) (-)

8.55

200000

150000

100000

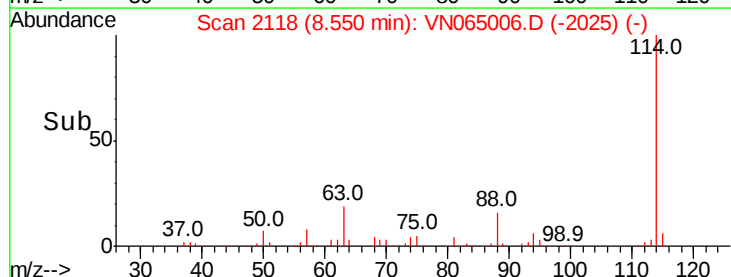
50000

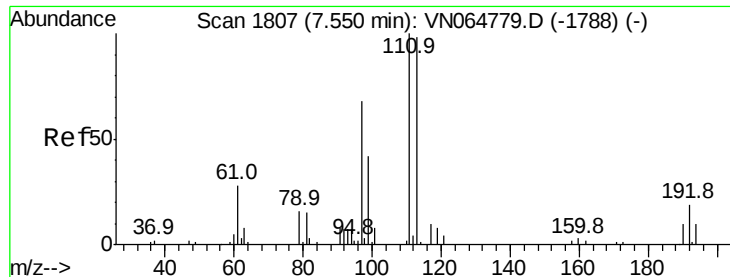
0

Time-->

8.50

8.60

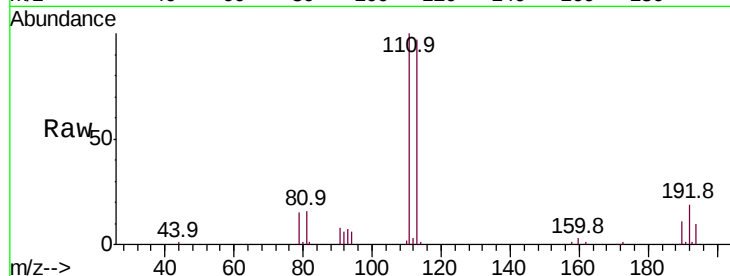




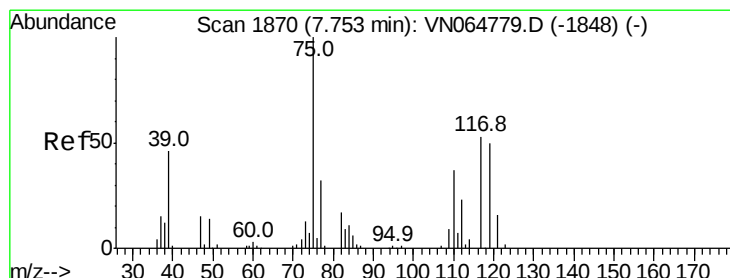
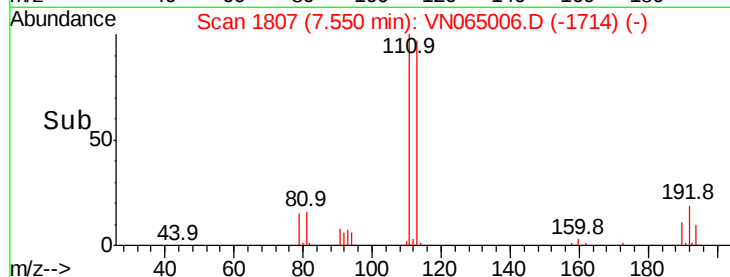
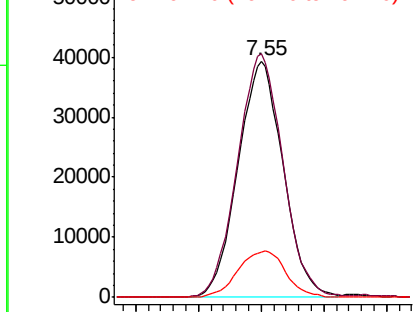
#35
 Dibromofluoromethane
 Concen: 51.157 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065006.D
 Acq: 9 Dec 2020 7:04

Instrument :
 MSVOA_N
 ClientSampled :
 4S1-C-TOP

Tot Ion:113 Resp: 98297
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.6 122.4
 192 20.8 16.2 24.2

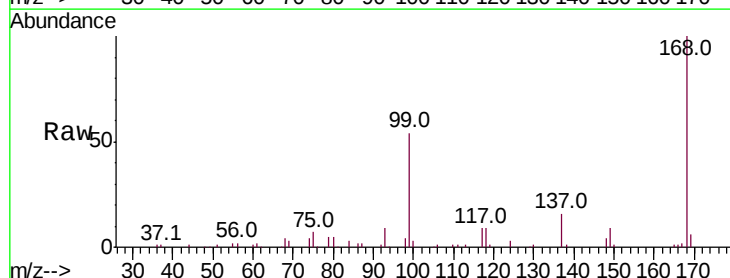


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

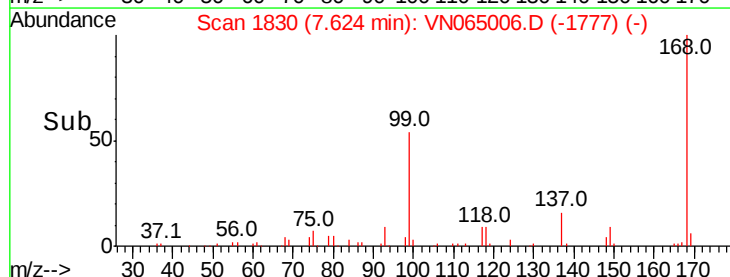
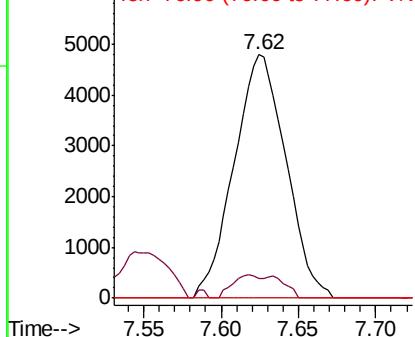


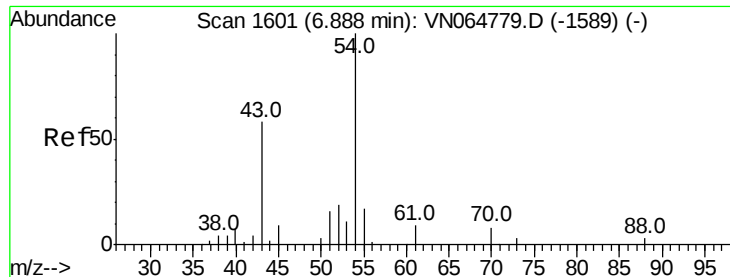
#36
 1,1-Dichloropropene
 Concen: 3.756 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN065006.D
 Acq: 9 Dec 2020 7:04

Tgt Ion: 75 Resp: 11181
 Ion Ratio Lower Upper
 75 100
 110 5.4 17.8 53.3#
 77 0.0 25.0 37.4#



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

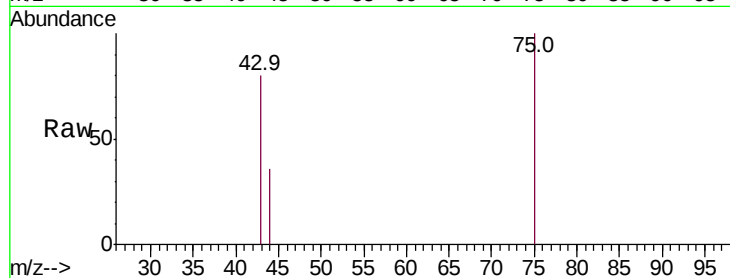




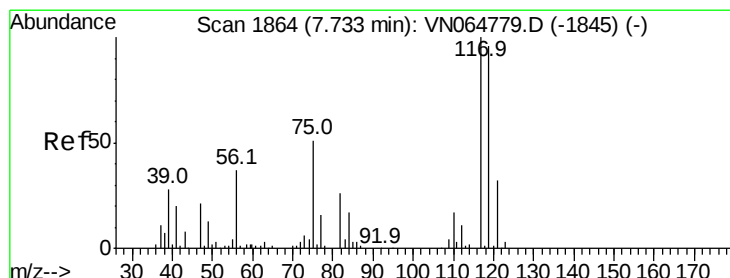
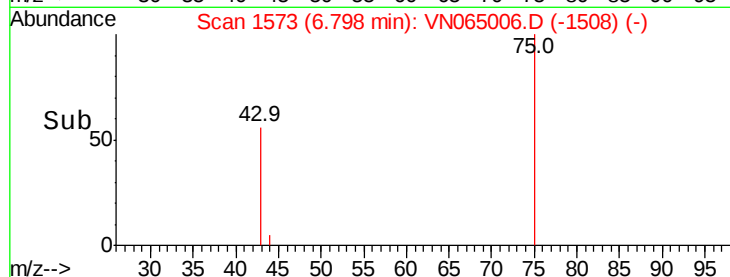
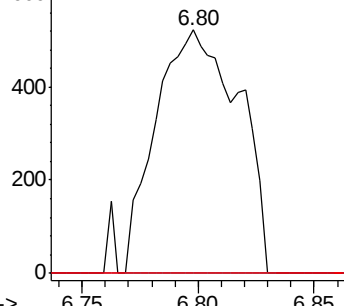
#37
Ethyl Acetate
Concen: 0.454 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. -0.09 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Instrument :
MSVOA_N
ClientSampleId :
4S1-C-TOP

Tot Ion: 43 Resp: 1303
Ion Ratio Lower Upper
43 100
61 0.0 12.8 19.2#
70 0.0 8.8 13.2#

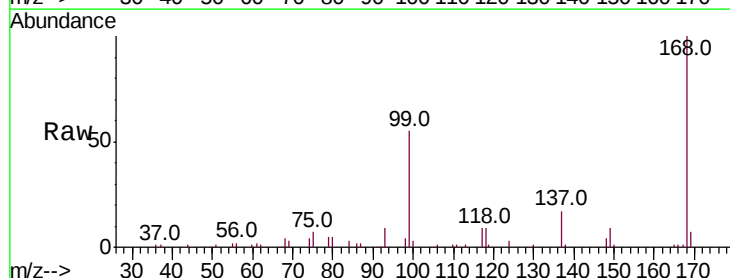


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

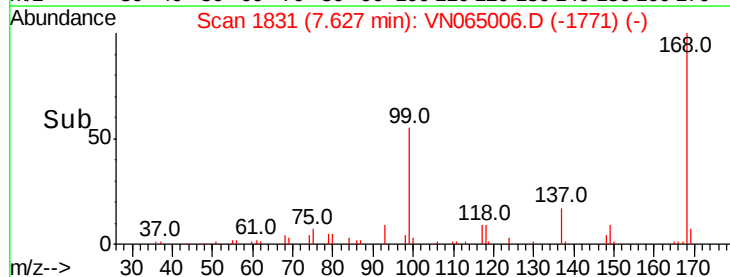
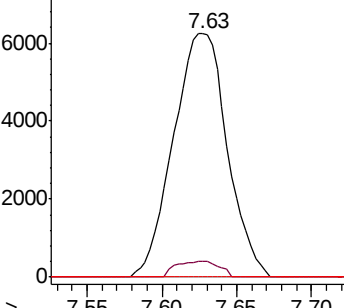


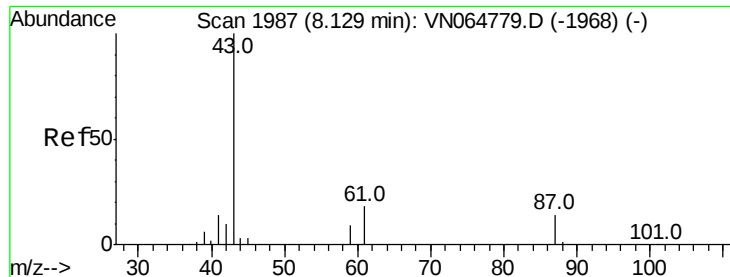
#38
Carbon Tetrachloride
Concen: 5.040 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Tgt Ion: 117 Resp: 15608
Ion Ratio Lower Upper
117 100
119 6.5 76.7 115.1#
121 0.0 25.4 38.2#



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: 4.124 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampled :

4S1-C-TOP

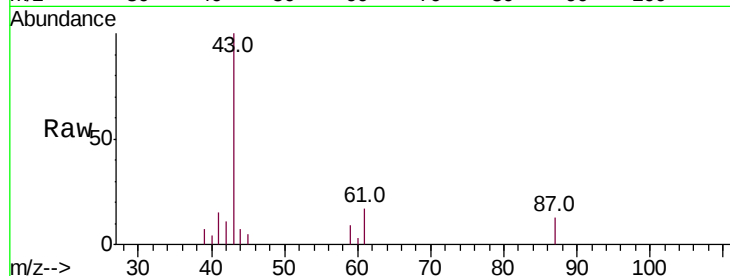
Tot Ion: 43 Resp: 19026

Ion Ratio Lower Upper

43 100

61 7.3 17.2 25.8#

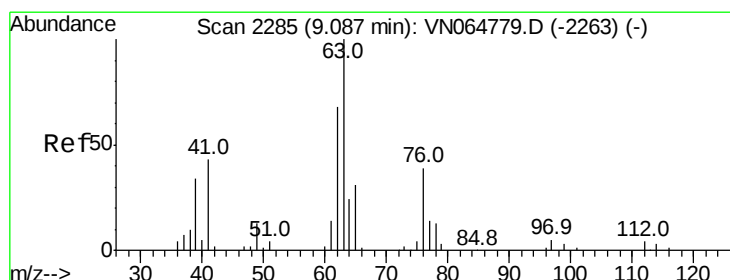
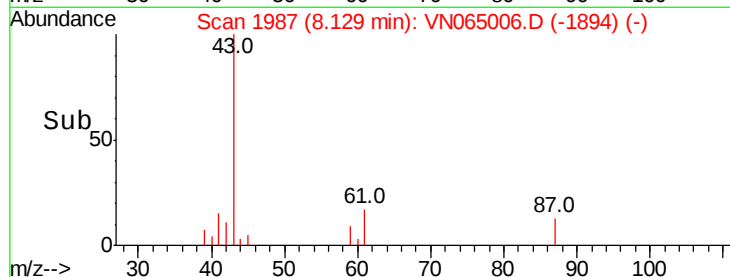
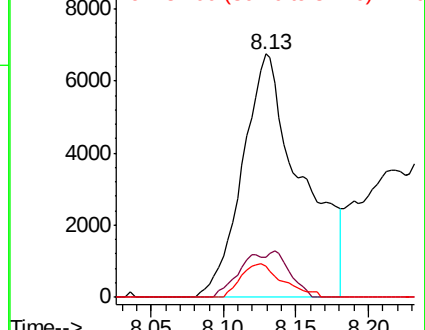
87 9.8 11.4 17.0#



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: 0.376 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN065006.D

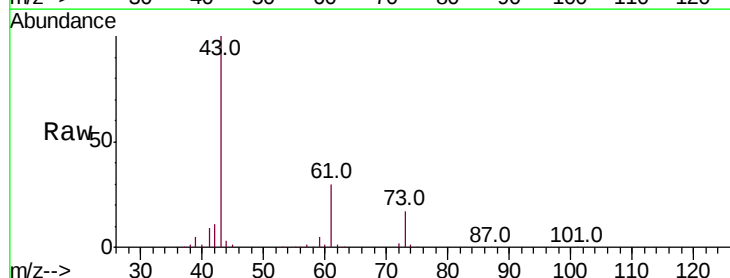
Acq: 9 Dec 2020 7:04

Tgt Ion: 63 Resp: 889

Ion Ratio Lower Upper

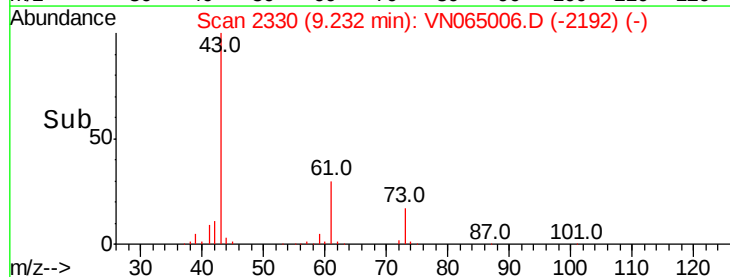
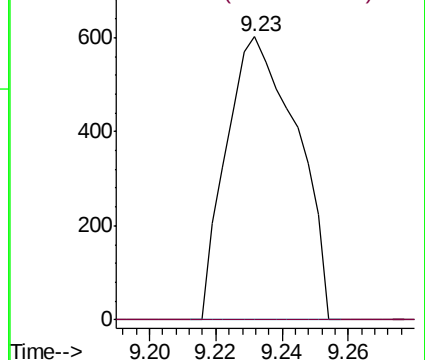
63 100

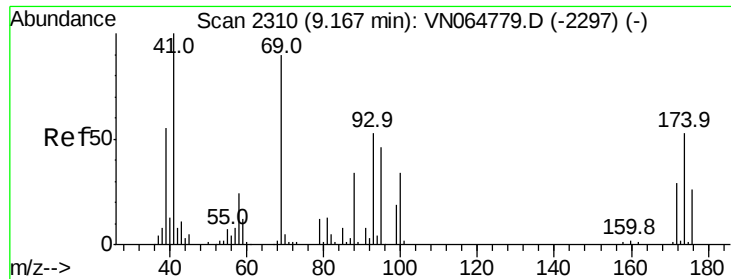
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

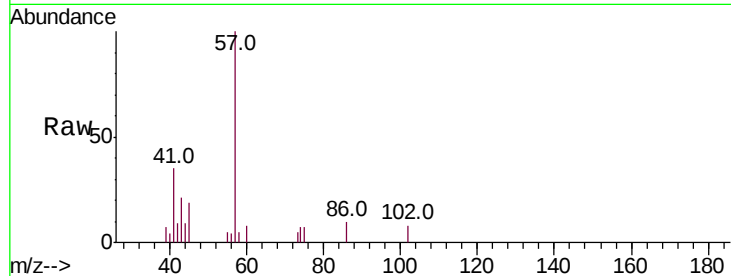




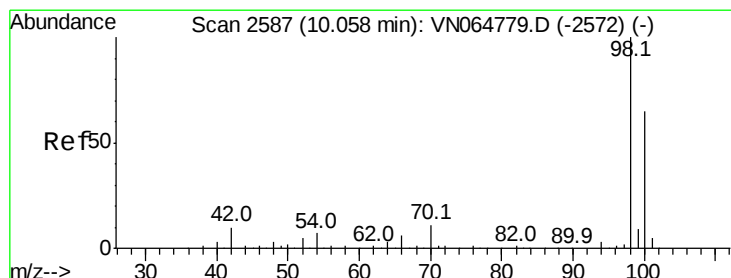
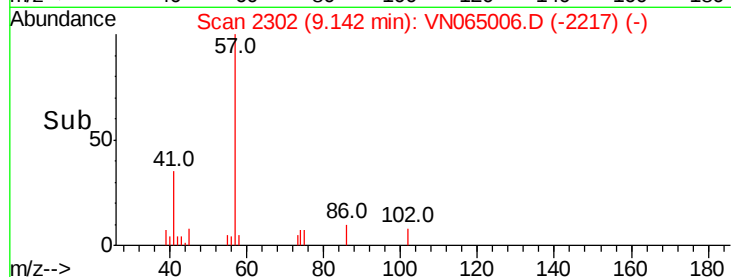
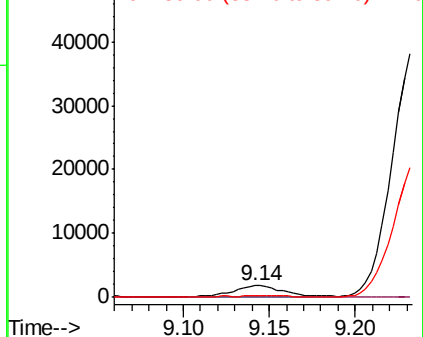
#48
Methvl methacrylate
Concen: 1.794 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Instrument :
MSVOA_N
ClientSampled :
4S1-C-TOP

Tot Ion: 41 Resp: 3956
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

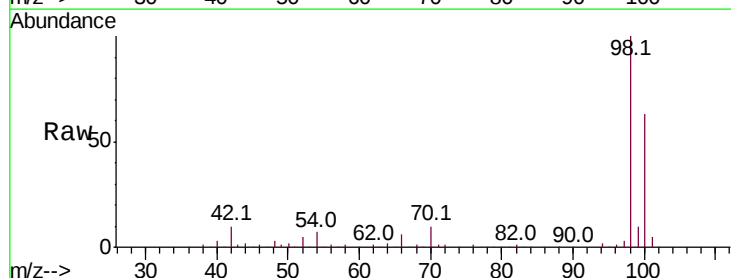


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

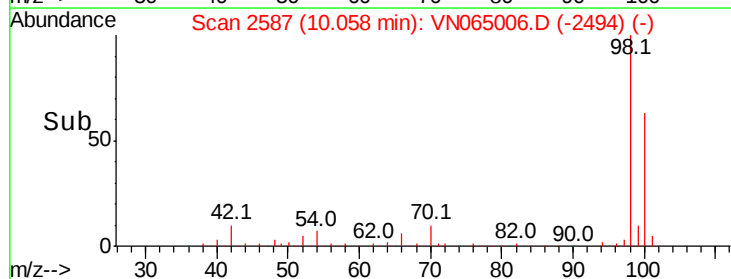
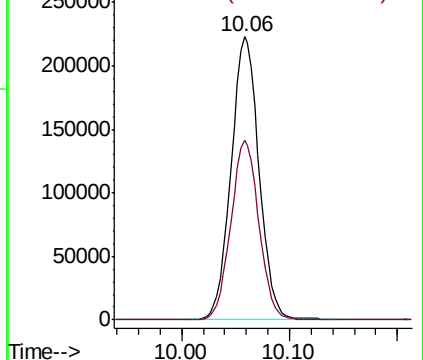


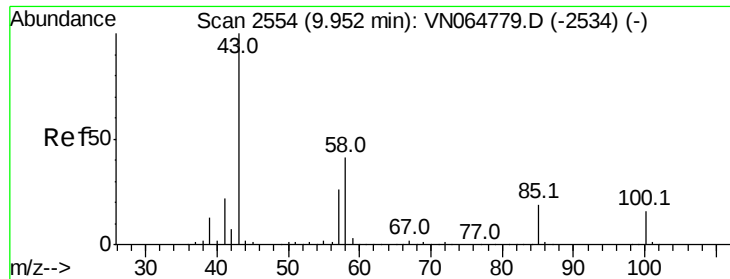
#50
Toluene-d8
Concen: 51.301 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Tgt Ion: 98 Resp: 402762
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5



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: 1.077 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampled :

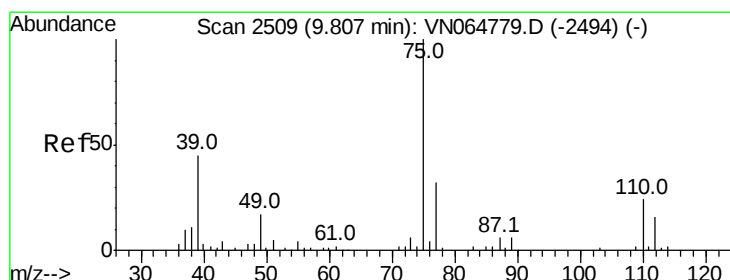
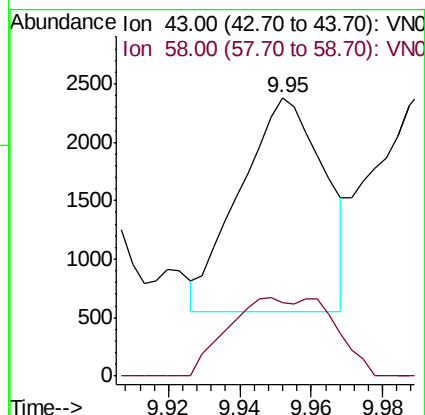
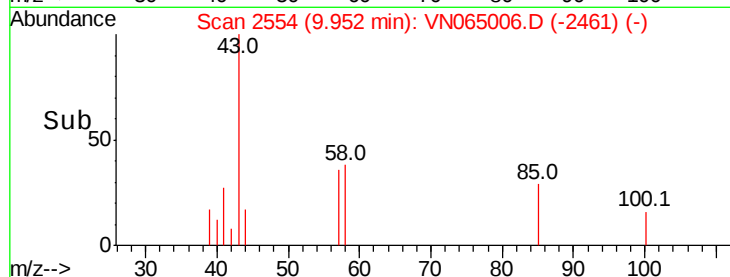
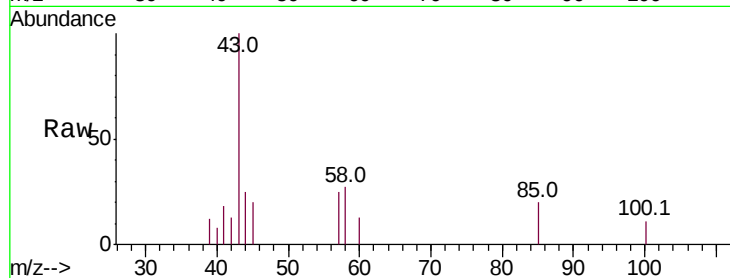
4S1-C-TOP

Tot Ion: 43 Resp: 2982

Ion Ratio Lower Upper

43 100

58 29.2 32.4 48.6#



#54

cis-1,3-Dichloropropene

Concen: 6.350 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

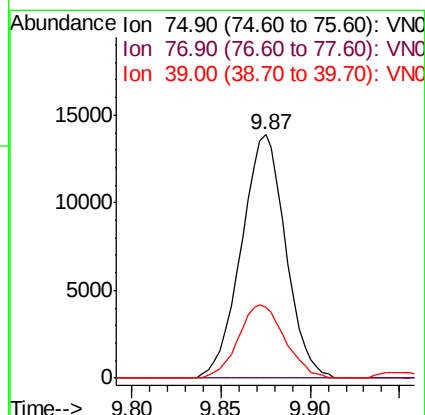
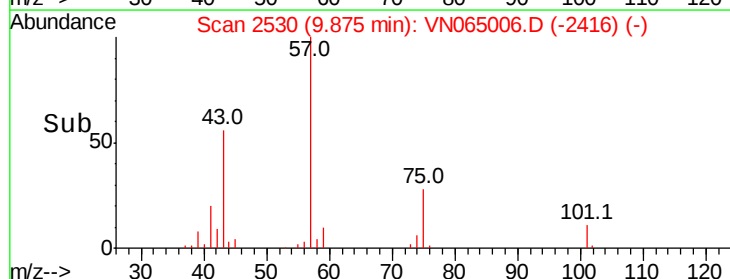
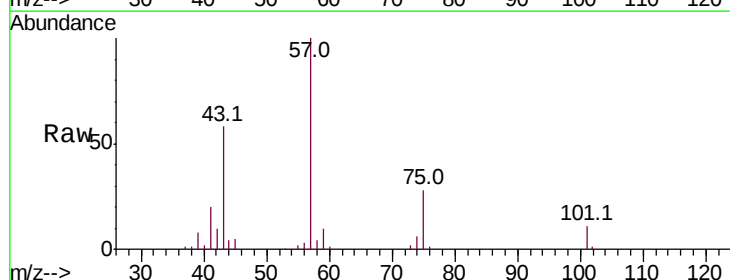
Tgt Ion: 75 Resp: 24071

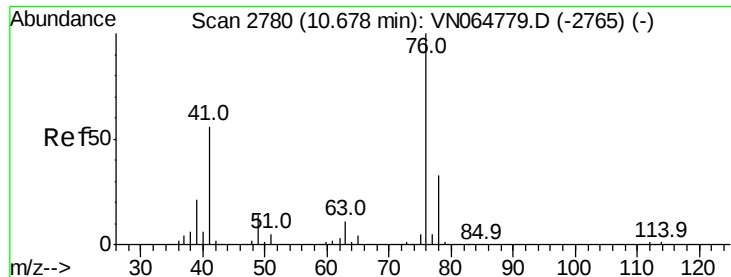
Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 29.2 35.6 53.4#





#57

1,3-Dichloropropane

Concen: 4.044 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampled :

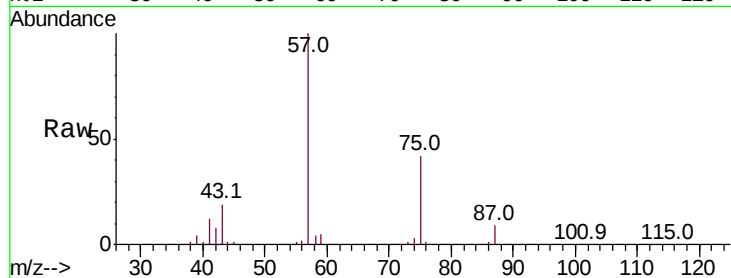
4S1-C-TOP

Tot Ion: 76 Resp: 15407

Ion Ratio Lower Upper

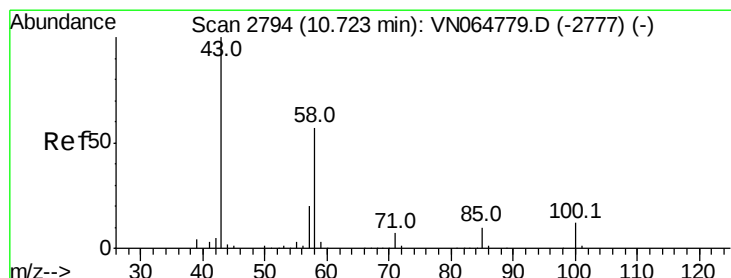
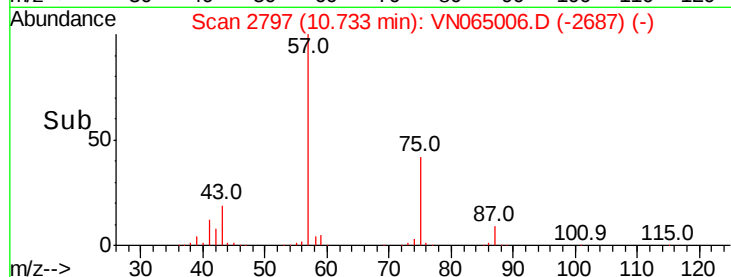
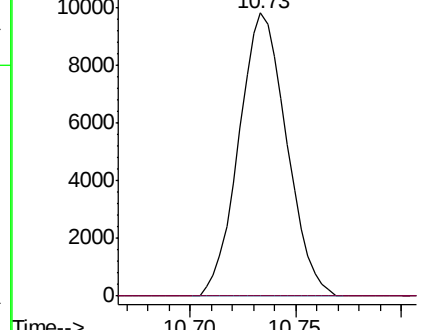
76 100

78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 98.763 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN065006.D

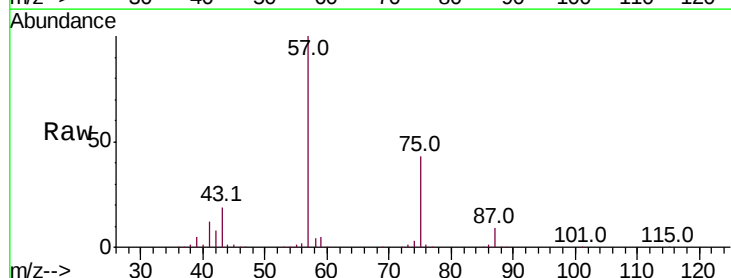
Acq: 9 Dec 2020 7:04

Tgt Ion: 43 Resp: 196868

Ion Ratio Lower Upper

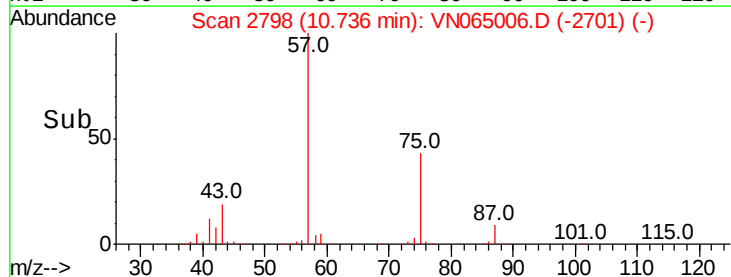
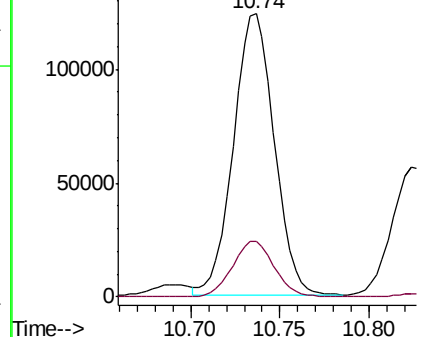
43 100

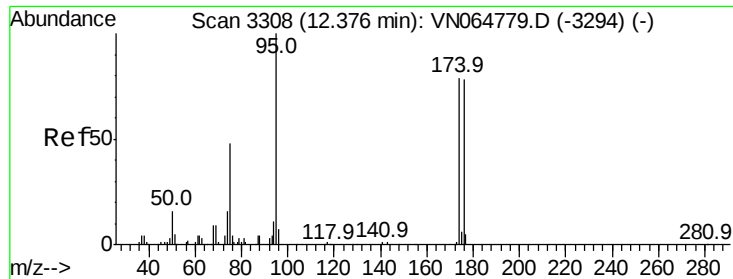
58 20.2 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

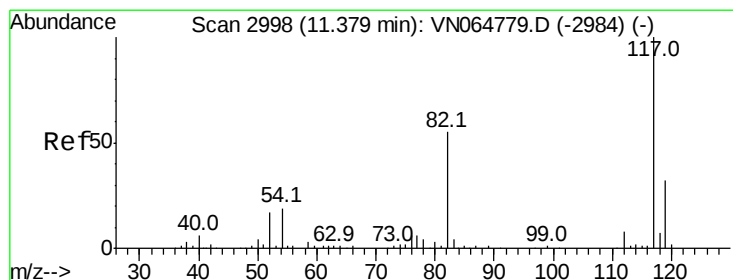
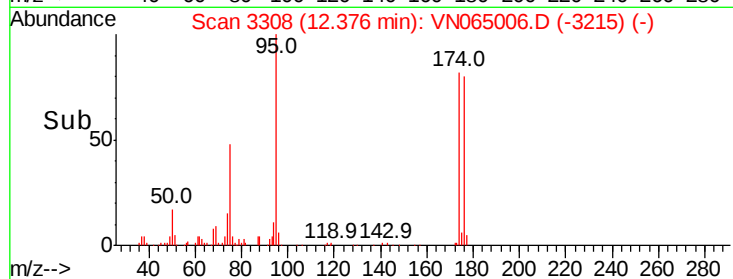
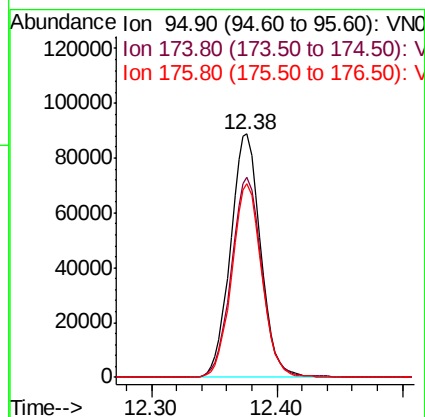
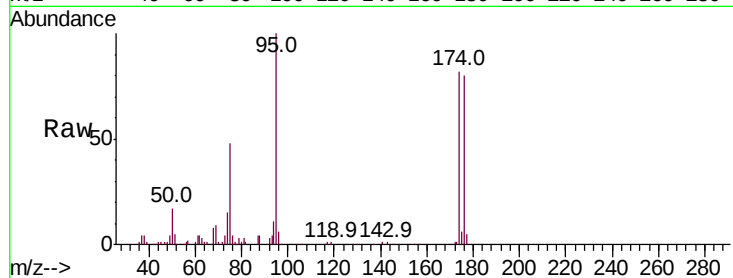




#62
4-Bromofluorobenzene
Concen: 52.495 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

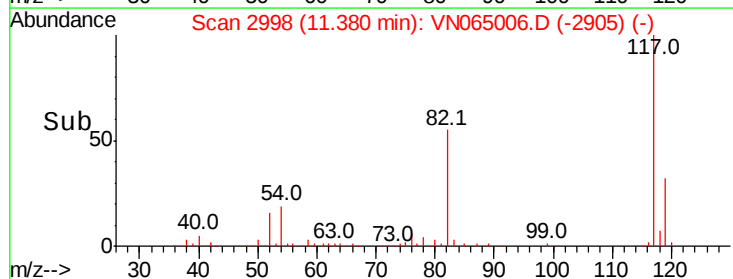
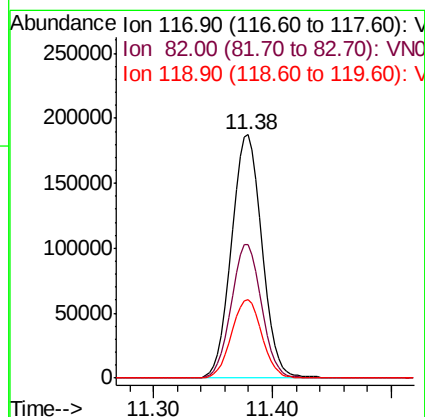
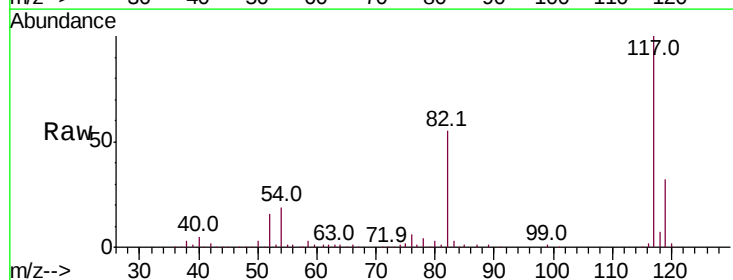
Instrument :
MSVOA_N
ClientSampleId :
4S1-C-TOP

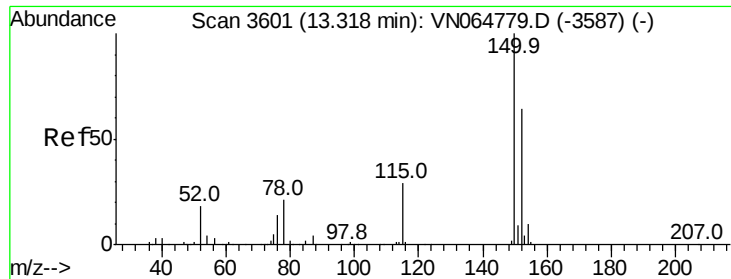
Tot Ion: 95 Resp: 147497
Ion Ratio Lower Upper
95 100
174 83.4 0.0 160.4
176 79.0 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065006.D
Acq: 9 Dec 2020 7:04

Tgt Ion: 117 Resp: 333430
Ion Ratio Lower Upper
117 100
82 54.7 44.2 66.2
119 32.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampled :

4S1-C-TOP

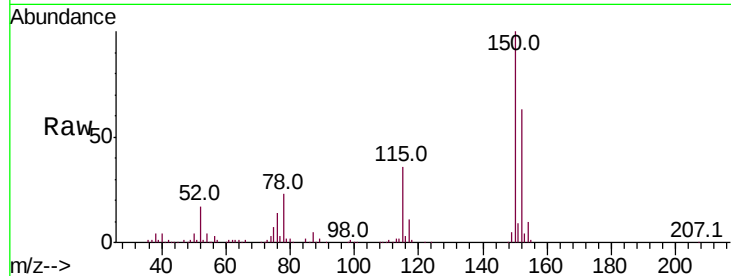
Tot Ion:152 Resp: 138054

Ion Ratio Lower Upper

152 100

115 57.9 29.7 89.1

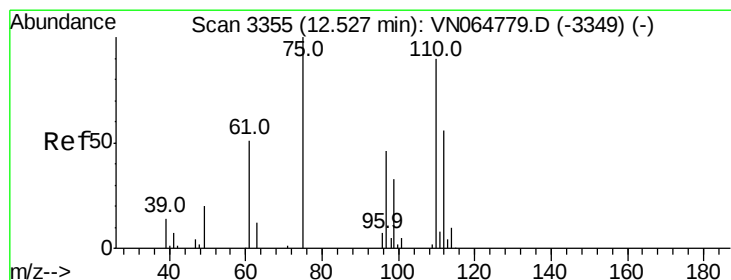
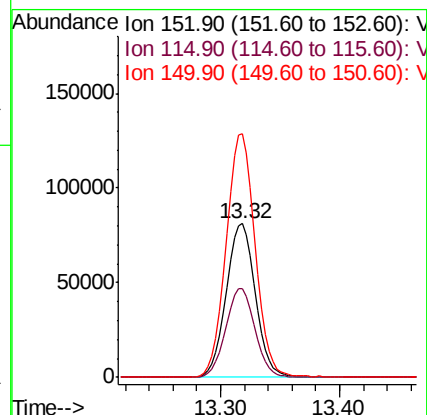
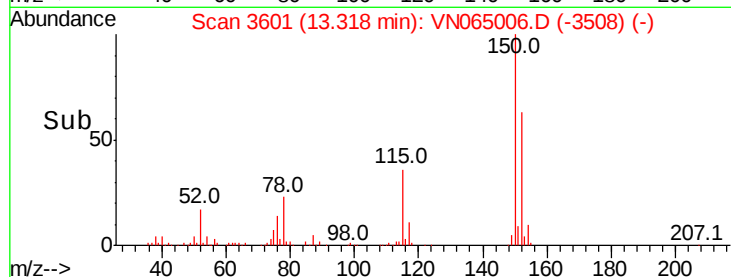
150 157.9 0.0 350.6



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



#76

1,2,3-Trichloropropane

Concen: 23.596 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065006.D

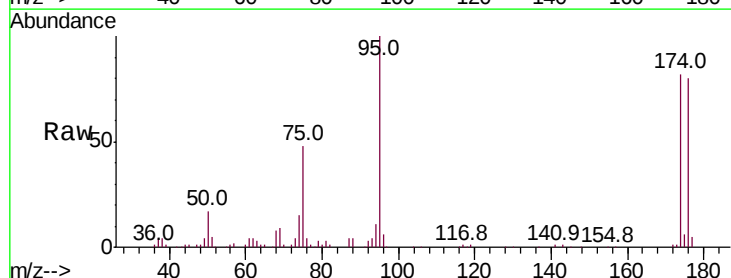
Acq: 9 Dec 2020 7:04

Tgt Ion: 75 Resp: 70152

Ion Ratio Lower Upper

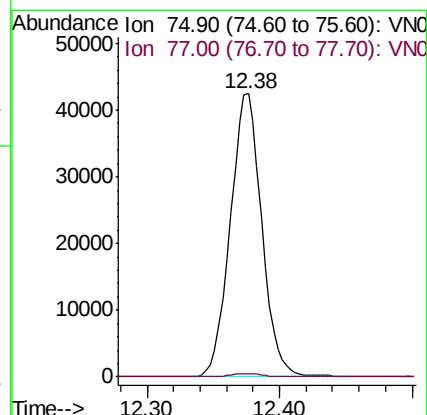
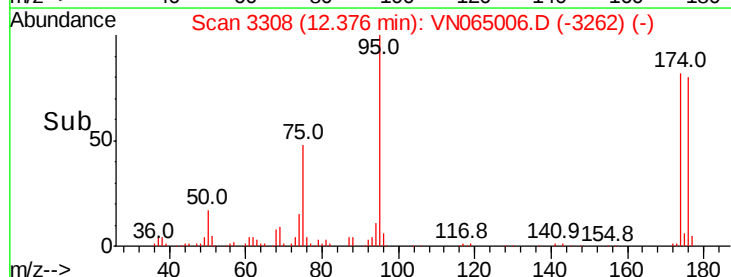
75 100

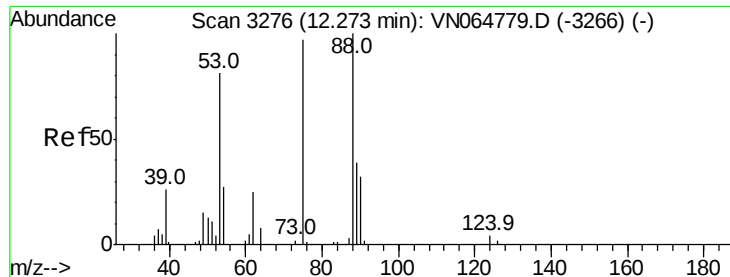
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 64.670 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065006.D

Acq: 9 Dec 2020 7:04

Instrument :

MSVOA_N

ClientSampleId :

4S1-C-TOP

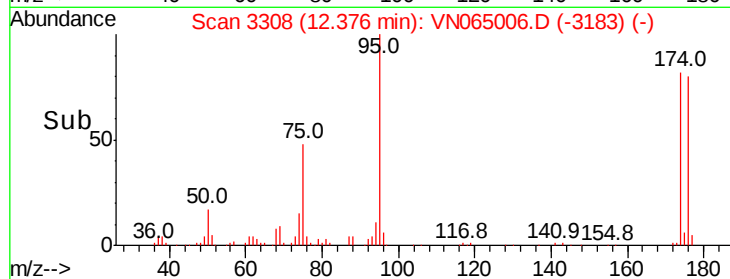
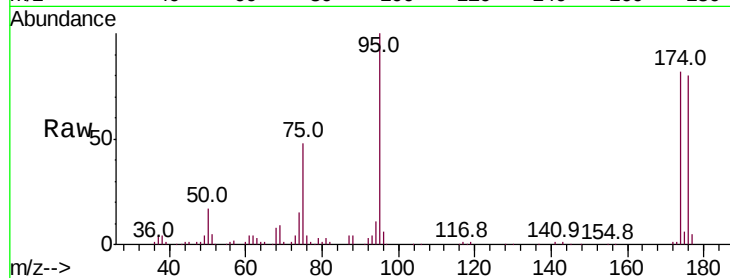
Tot Ion: 75 Resp: 70152

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



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

