

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065000.D
 Acq On : 9 Dec 2020 4:39
 Operator : JC/MD
 Sample : L4970-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-D-TOP

Quant Time: Dec 09 08:00:28 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	7.63	168	164839	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	317686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	335321	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136420	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	106946	55.81	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	111.62%		
35) Dibromofluoromethane	7.55	113	97548	51.32	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	102.64%		
50) Toluene-d8	10.06	98	398840	51.35	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.70%		
62) 4-Bromofluorobenzene	12.38	95	147286	52.99	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	105.98%		

Target Compounds

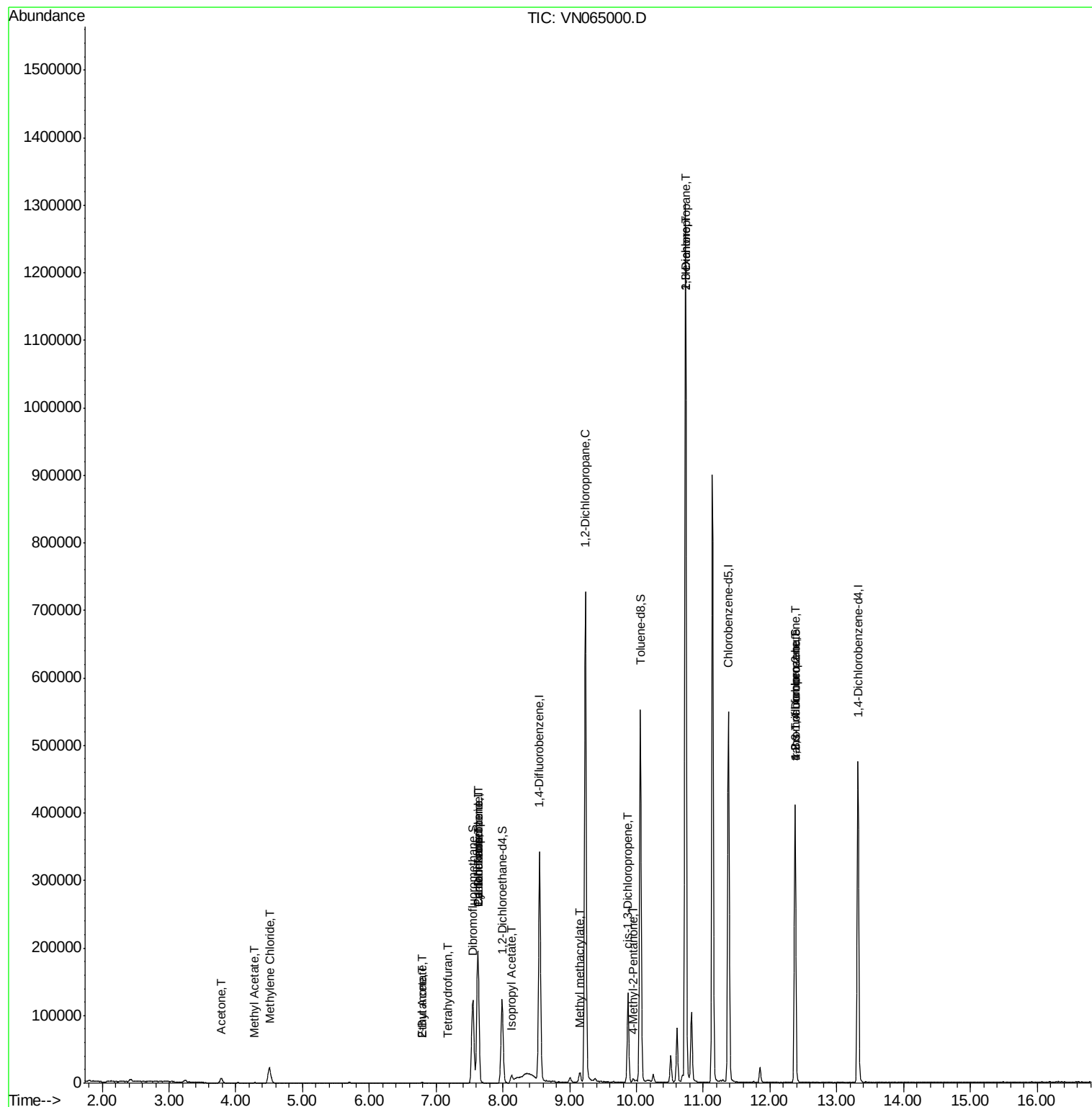
					Qvalue	
16) Acetone	3.78	43	11916	18.915	ug/l	99
18) Methyl Acetate	4.28	43	1056	0.558	ug/l #	50
20) Methylene Chloride	4.51	84	17827	9.031	ug/l	94
25) 2-Butanone	6.79	43	844	0.826	ug/l	97
29) Tetrahydrofuran	7.17	42	190	0.270	ug/l #	32
31) Cyclohexane	7.63	56	3013	1.128	ug/l #	6
36) 1,1-Dichloropropene	7.62	75	11174	3.795	ug/l #	50
37) Ethyl Acetate	6.79	43	844	0.298	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15022	4.903	ug/l #	16
43) Isopropyl Acetate	8.13	43	16119	3.532	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	777	0.333	ug/l #	43
48) Methyl methacrylate	9.14	41	3691	1.692	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3230	1.179	ug/l #	84
54) cis-1,3-Dichloropropene	9.87	75	24376	6.500	ug/l #	63
57) 1,3-Dichloropropane	10.73	76	13557	3.597	ug/l #	42
59) 2-Hexanone	10.73	43	179931	91.242	ug/l #	51
76) 1,2,3-Trichloropropane	12.37	75	70652	24.048	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	70652	65.911	ug/l #	15

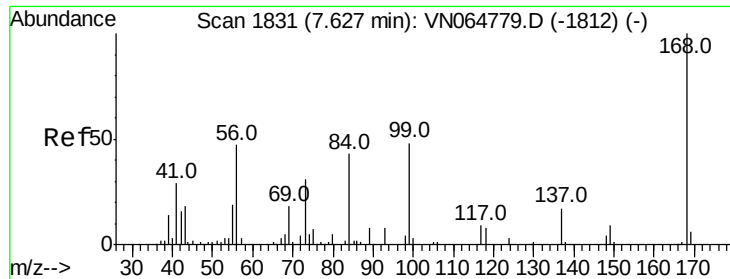
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120820\
Data File : VN065000.D
Acq On : 9 Dec 2020 4:39
Operator : JC/MD
Sample : L4970-10
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
4S2-D-TOP

Quant Time: Dec 09 08:00:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

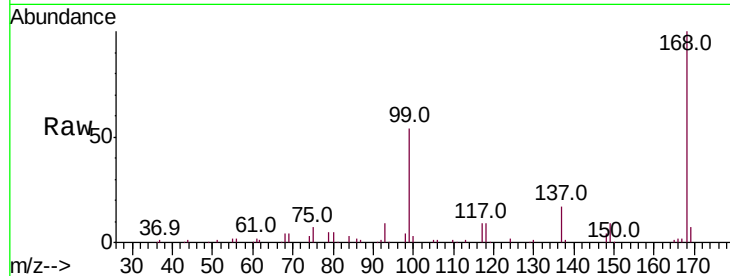
4S2-D-TOP

Tot Ion:168 Resp: 164839

Ion Ratio Lower Upper

168 100

99 53.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064779.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN064779.D (-1812) (-)

7.63

60000

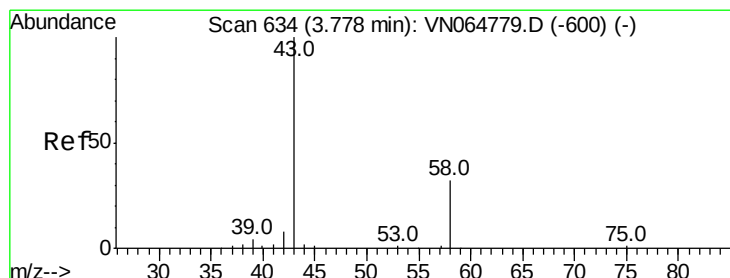
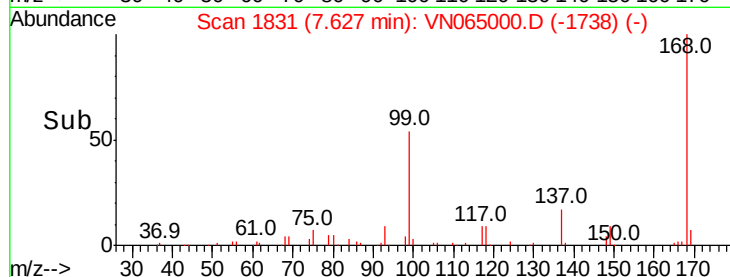
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 18.915 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN065000.D

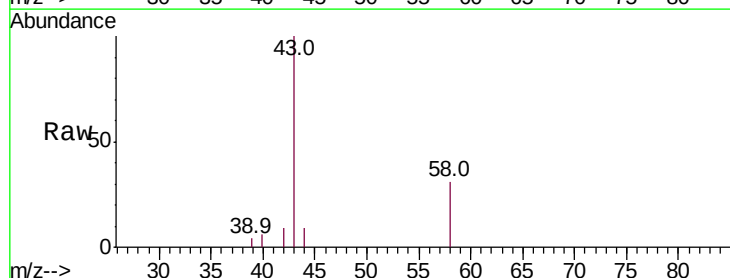
Acq: 9 Dec 2020 4:39

Tgt Ion: 43 Resp: 11916

Ion Ratio Lower Upper

43 100

58 31.4 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-600) (-)

3.78

5000

4000

3000

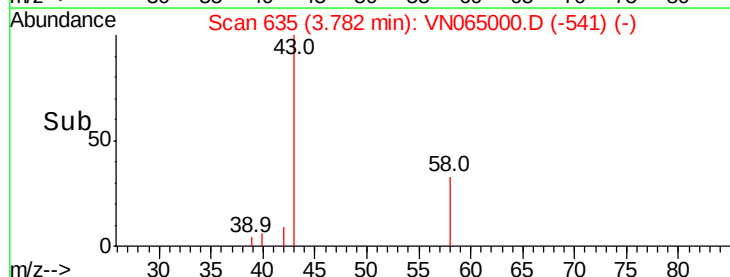
2000

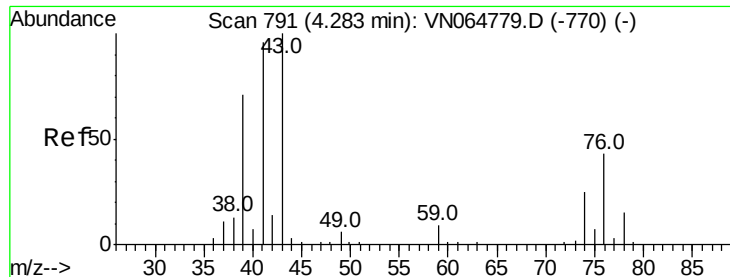
1000

0

3.70 3.75 3.80 3.85

Time-->

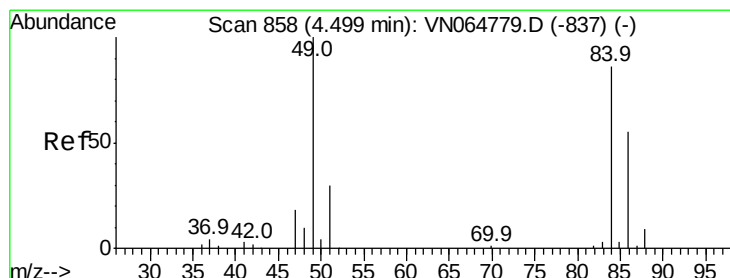
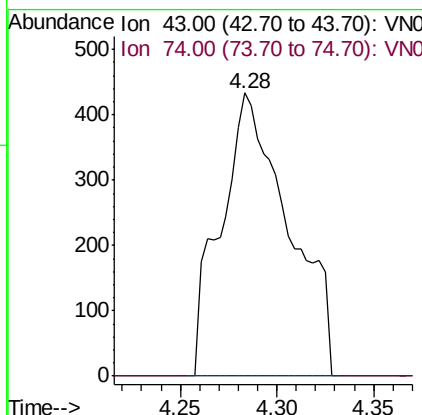
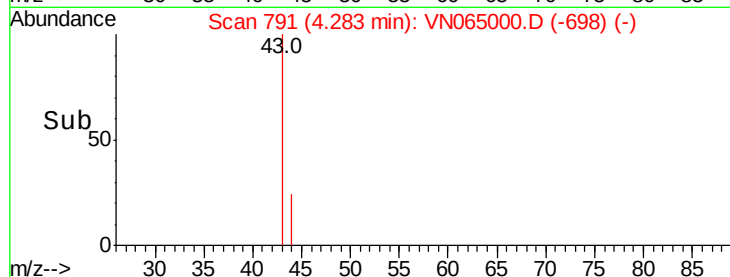
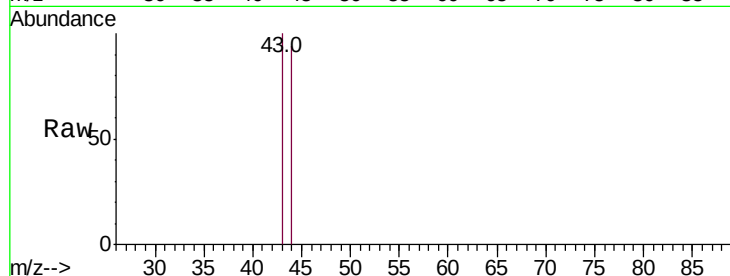




#18
Methyl Acetate
Concen: 0.558 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN065000.D
Acq: 9 Dec 2020 4:39

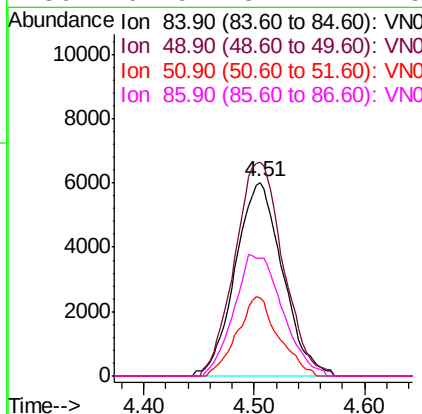
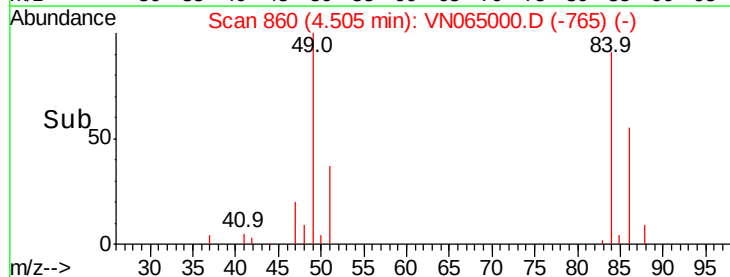
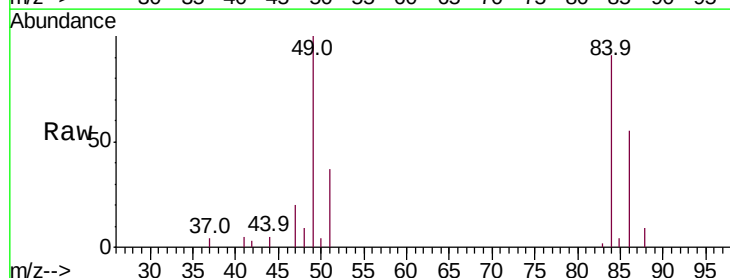
Instrument :
MSVOA_N
ClientSampled :
4S2-D-TOP

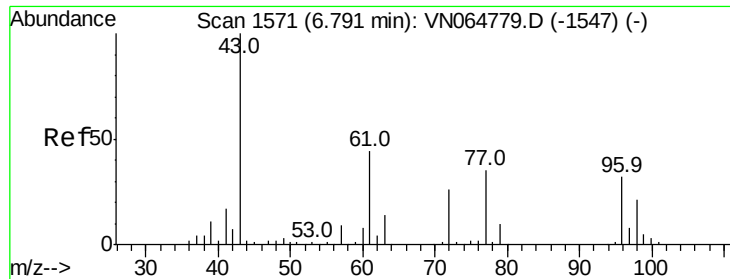
Tot Ion: 43 Resp: 1056
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 9.031 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN065000.D
Acq: 9 Dec 2020 4:39

Tgt Ion: 84 Resp: 17827
Ion Ratio Lower Upper
84 100
49 110.2 93.4 140.0
51 40.6 28.2 42.4
86 61.0 51.7 77.5





#25

2-Butanone

Concen: 0.826 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampled :

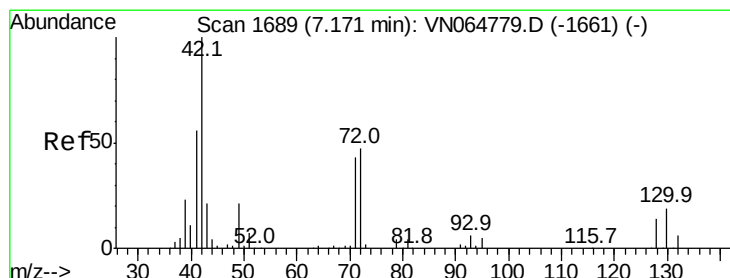
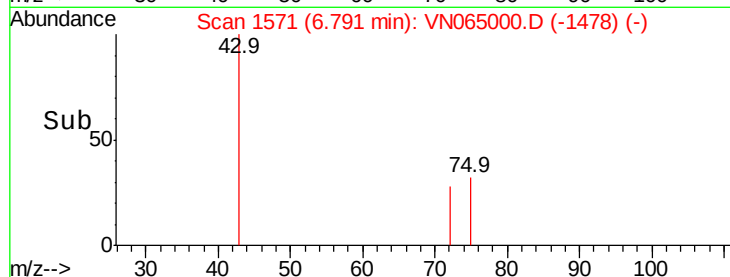
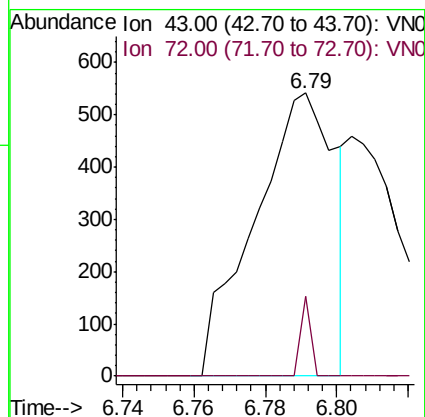
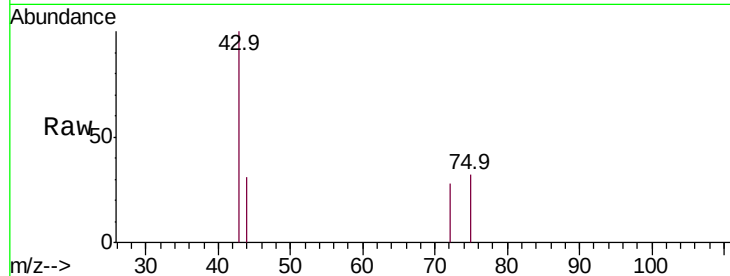
4S2-D-TOP

Tot Ion: 43 Resp: 844

Ion Ratio Lower Upper

43 100

72 28.0 21.0 31.6



#29

Tetrahydrofuran

Concen: 0.270 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

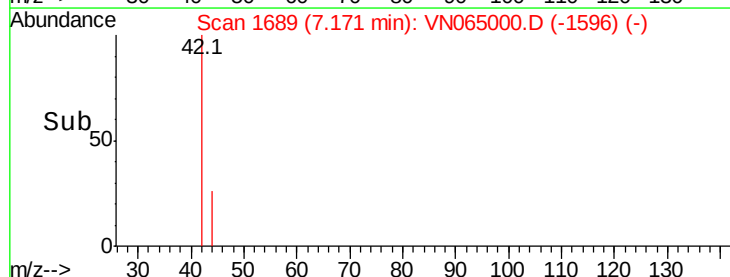
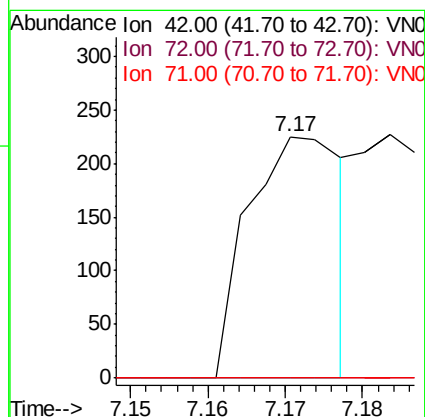
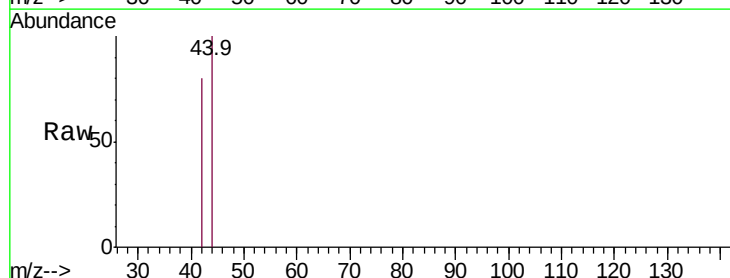
Tgt Ion: 42 Resp: 190

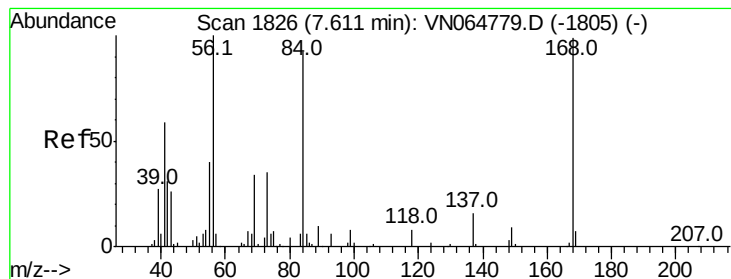
Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 33.6 50.4#





#31

Cyclohexane

Concen: 1.128 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampled :

4S2-D-TOP

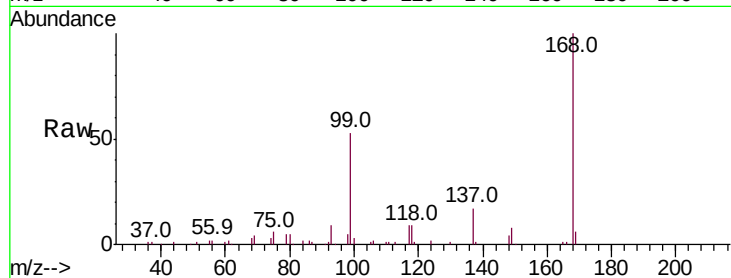
Tot Ion: 56 Resp: 3013

Ion Ratio Lower Upper

56 100

69 196.1 27.5 41.3#

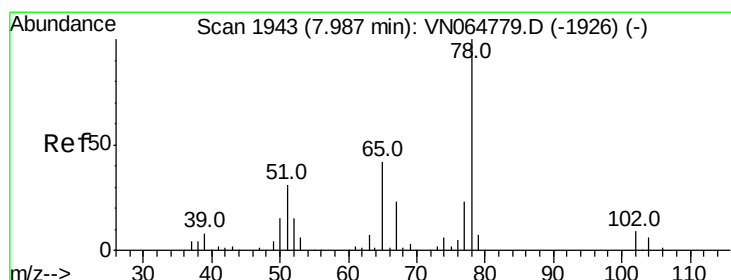
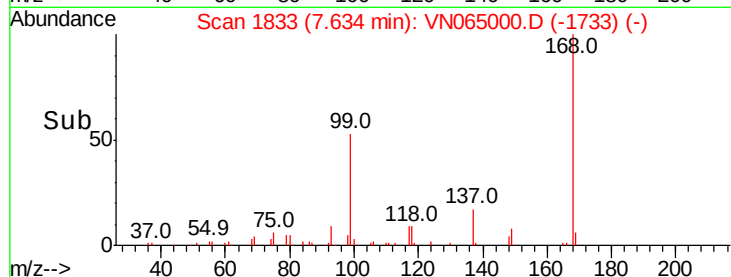
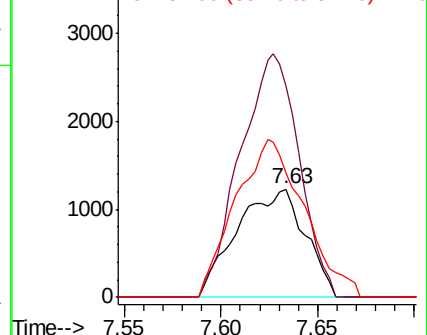
84 115.2 73.9 110.9#



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: 55.807 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065000.D

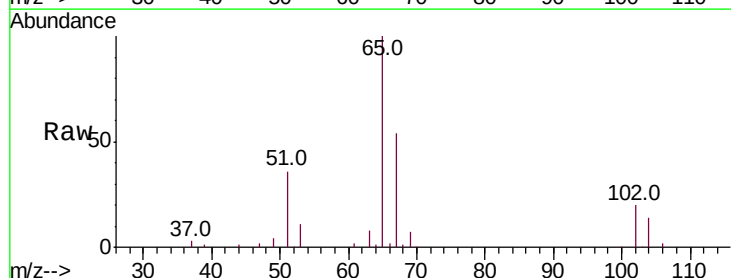
Acq: 9 Dec 2020 4:39

Tgt Ion: 65 Resp: 106946

Ion Ratio Lower Upper

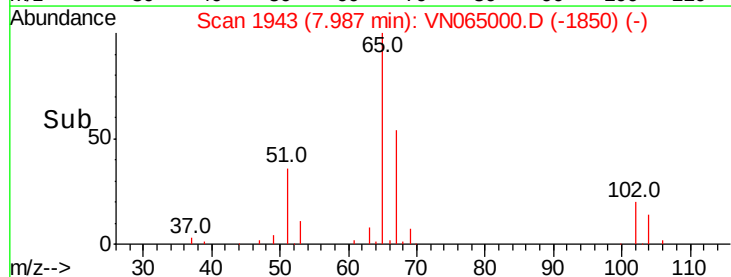
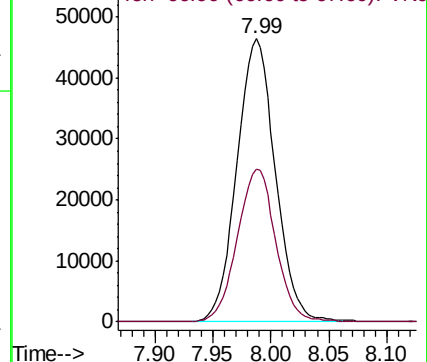
65 100

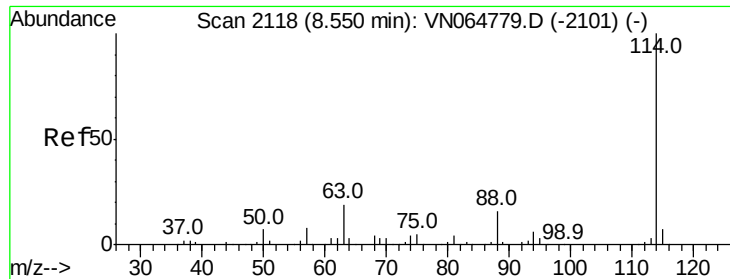
67 54.1 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

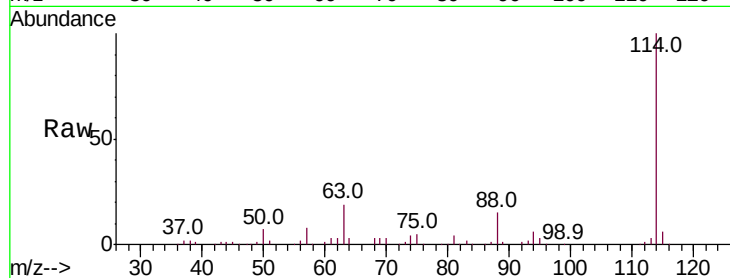




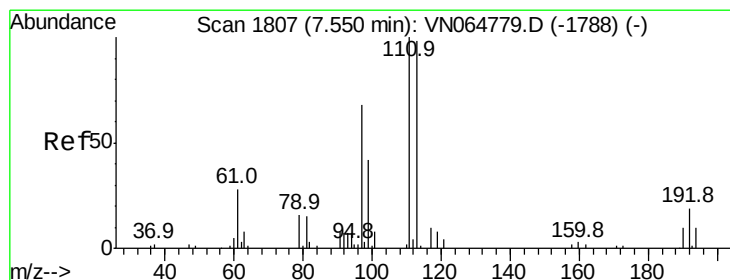
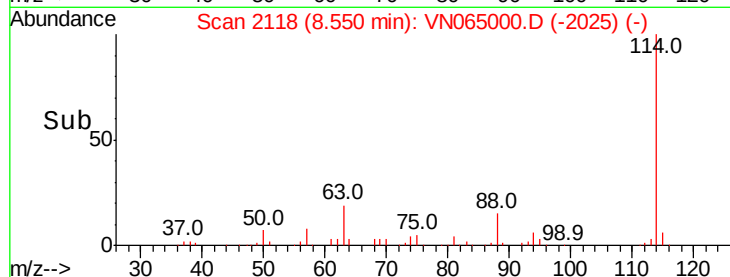
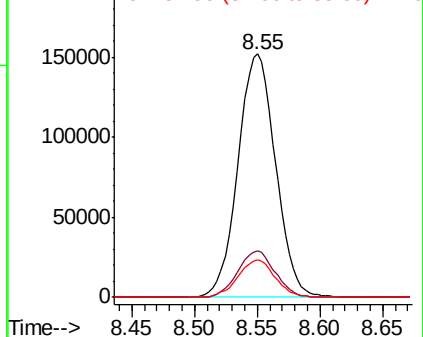
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065000.D
 Acq: 9 Dec 2020 4:39

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-D-TOP

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.6
88	15.4	0.0	32.6

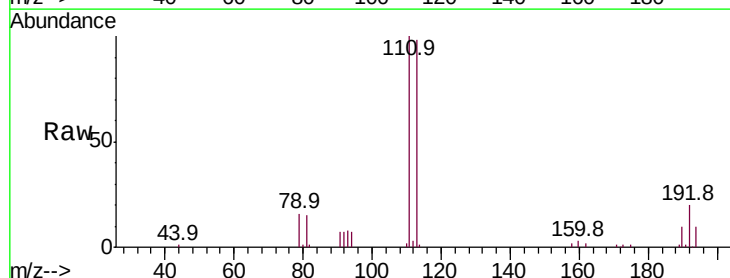


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

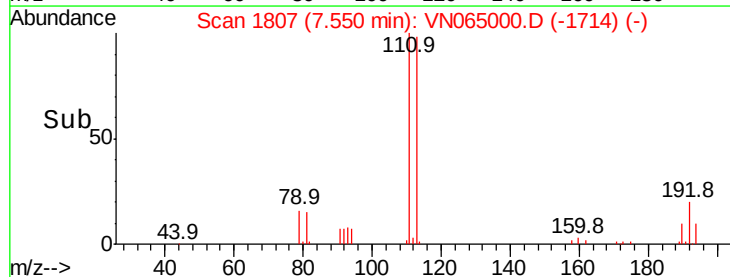
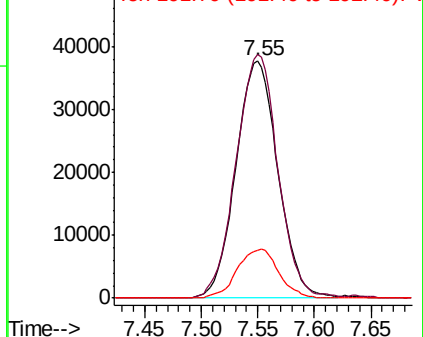


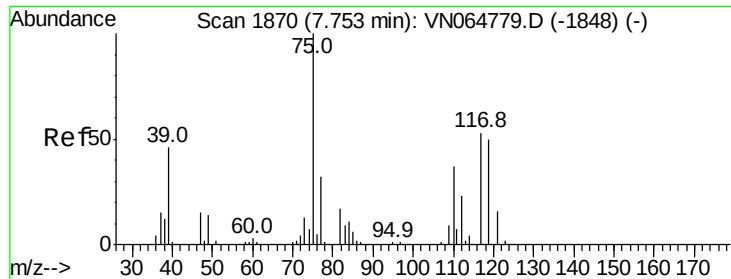
#35
 Dibromofluoromethane
 Concen: 51.316 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065000.D
 Acq: 9 Dec 2020 4:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.6	122.4
192	20.4	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: 3.795 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampled :

4S2-D-TOP

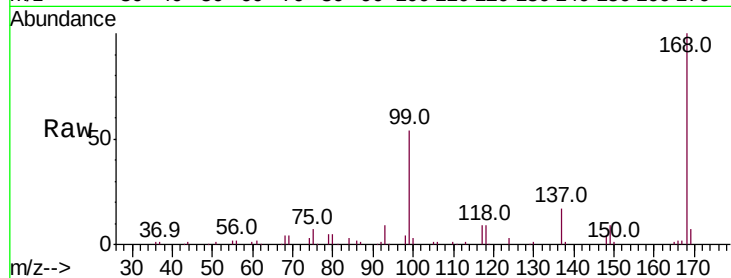
Tot Ion: 75 Resp: 11174

Ion Ratio Lower Upper

75 100

110 9.3 17.8 53.3#

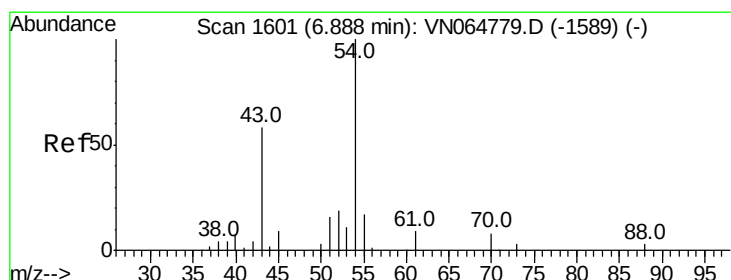
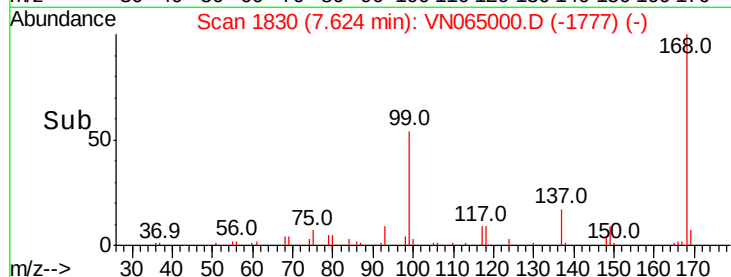
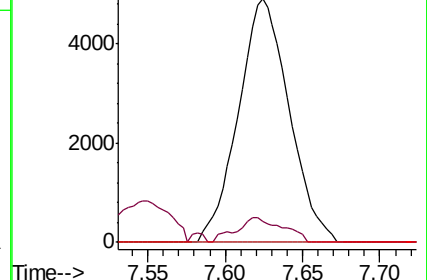
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.298 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. -0.10 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

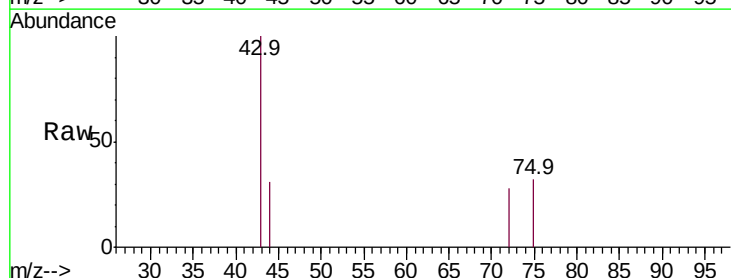
Tgt Ion: 43 Resp: 844

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

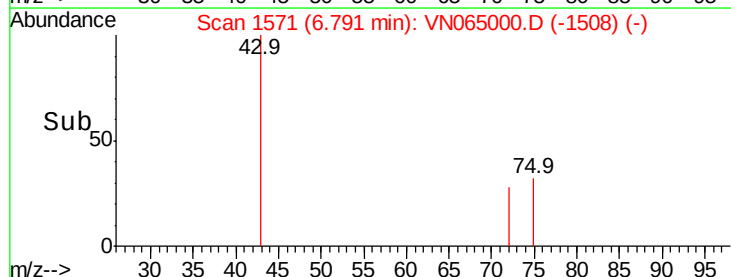
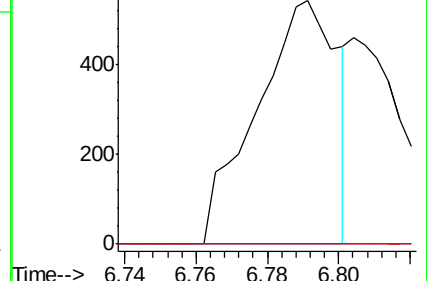
70 0.0 8.8 13.2#

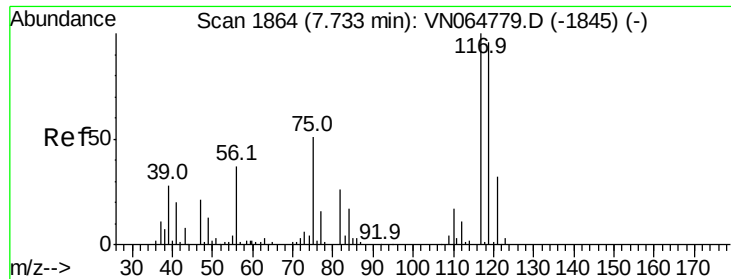


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 4.903 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampled :

4S2-D-TOP

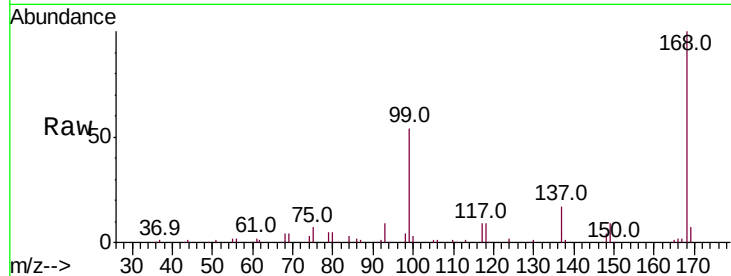
Tot Ion:117 Resp: 15022

Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

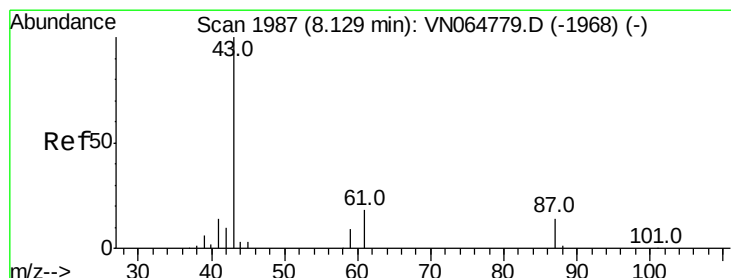
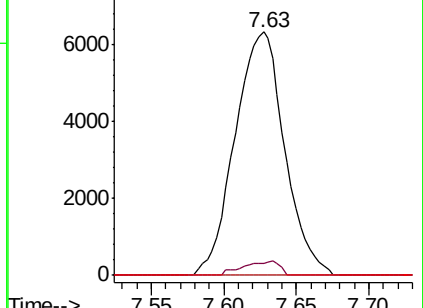
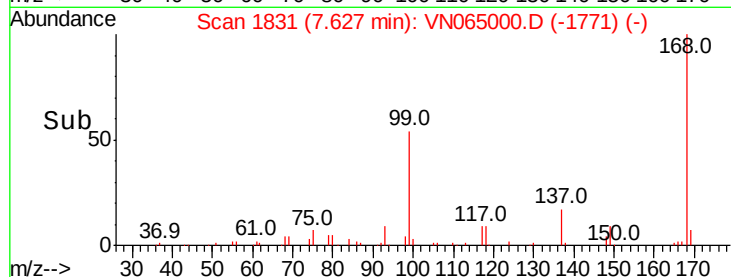
121 0.0 25.4 38.2#



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: 3.532 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

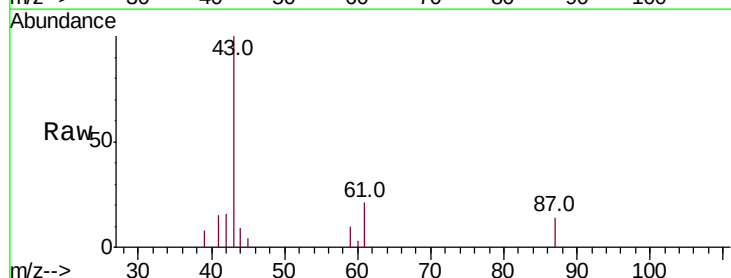
Tgt Ion: 43 Resp: 16119

Ion Ratio Lower Upper

43 100

61 17.0 17.2 25.8#

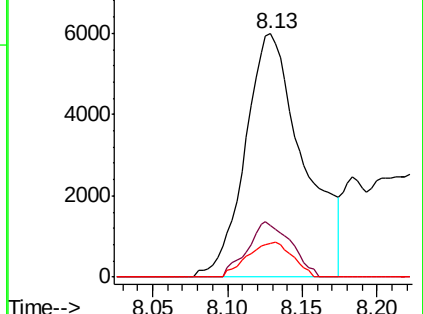
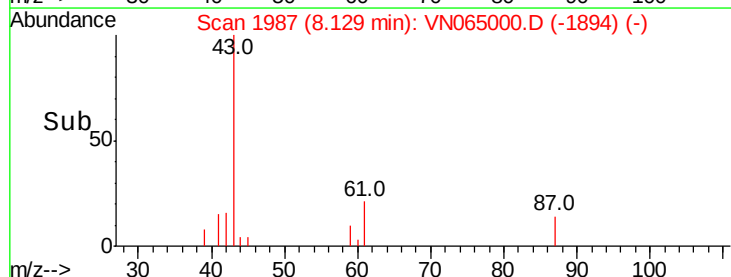
87 11.0 11.4 17.0#

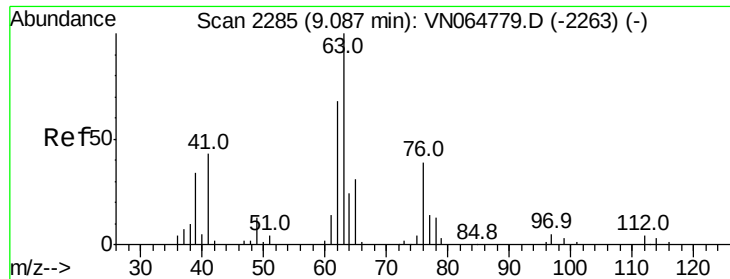


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

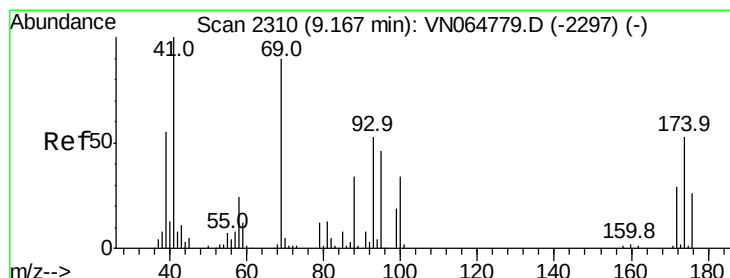
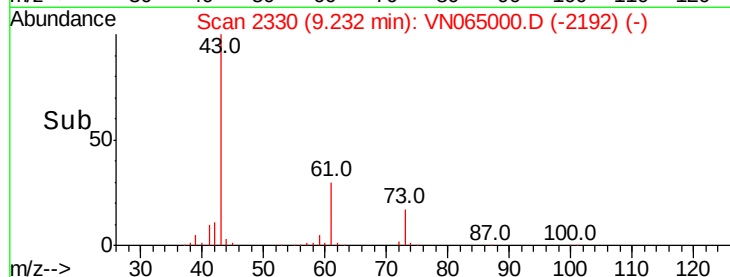
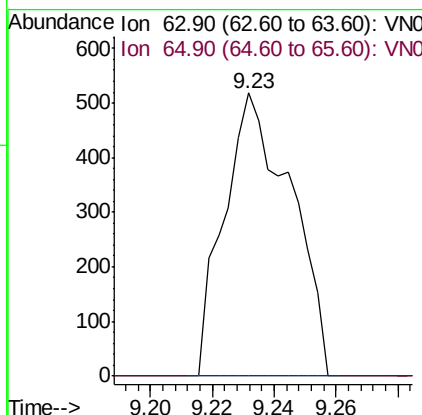
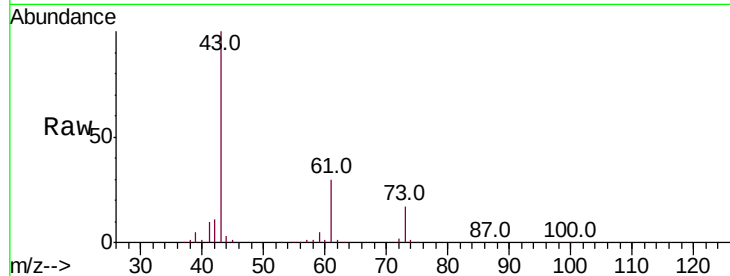




#45
 1,2-Dichloropropane
 Concen: 0.333 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN065000.D
 Acq: 9 Dec 2020 4:39

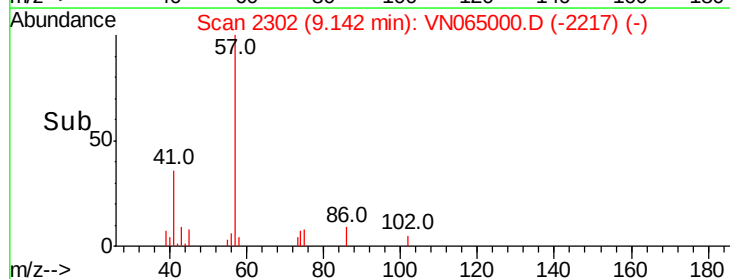
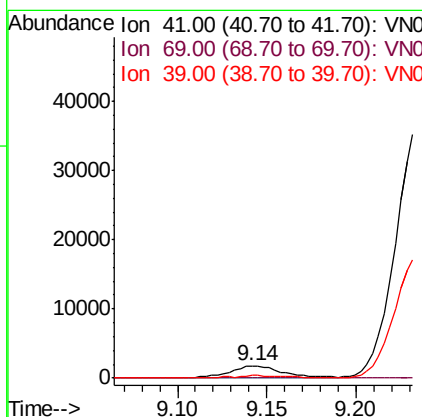
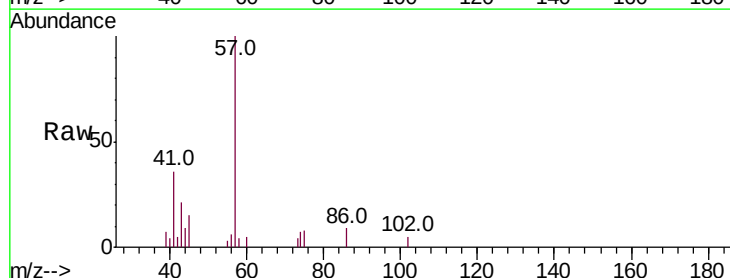
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-D-TOP

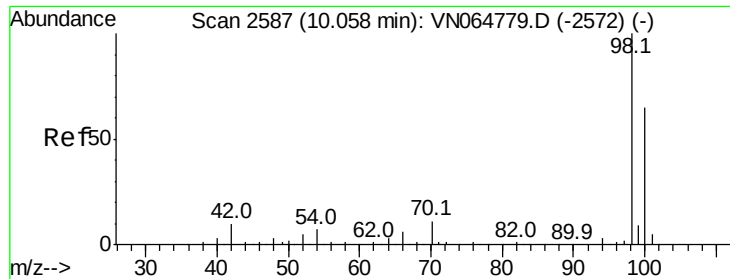
Tot Ion: 63 Resp: 777
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.692 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN065000.D
 Acq: 9 Dec 2020 4:39

Tgt Ion: 41 Resp: 3691
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 51.350 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

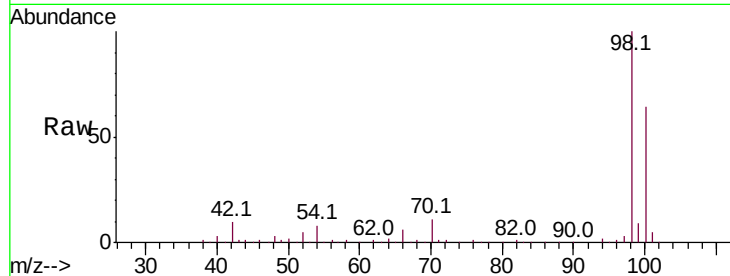
4S2-D-TOP

Tot Ion: 98 Resp: 398840

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): VN

250000

200000

150000

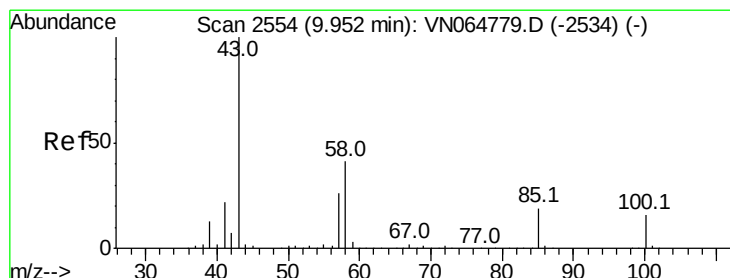
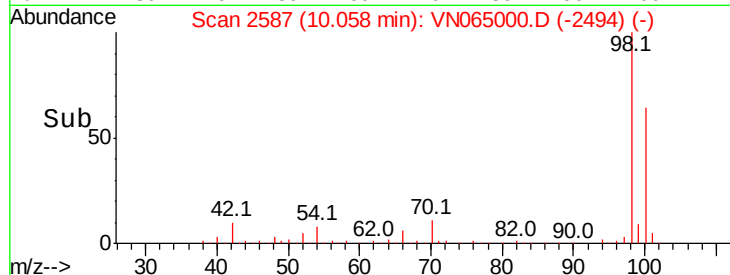
100000

50000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.179 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN065000.D

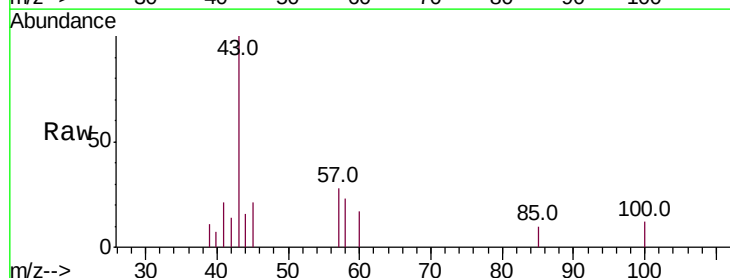
Acq: 9 Dec 2020 4:39

Tgt Ion: 43 Resp: 3230

Ion Ratio Lower Upper

43 100

58 30.3 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

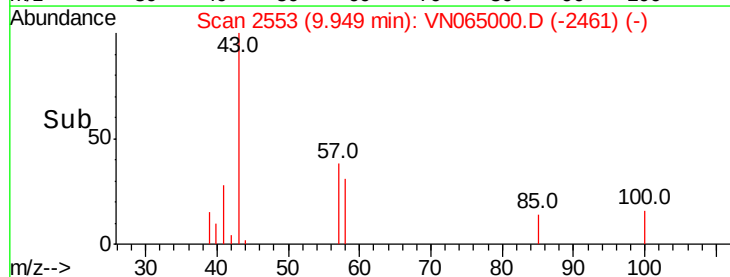
10000

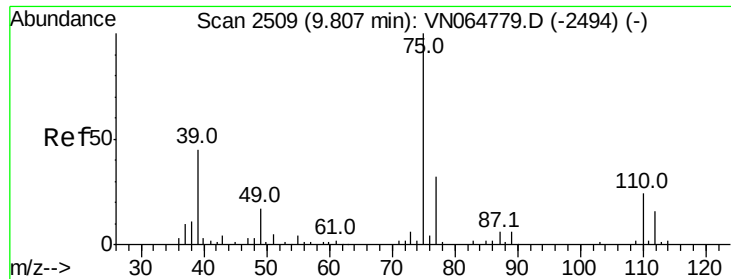
5000

0

9.90 9.95

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.500 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampled :

4S2-D-TOP

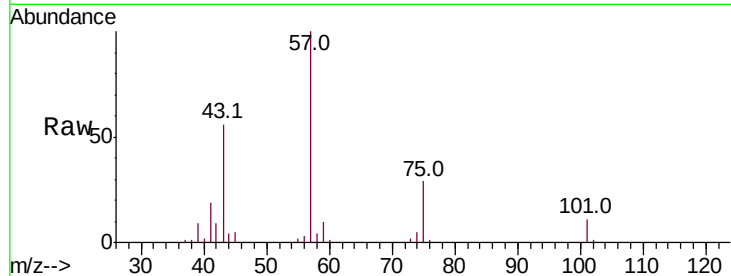
Tot Ion: 75 Resp: 24376

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

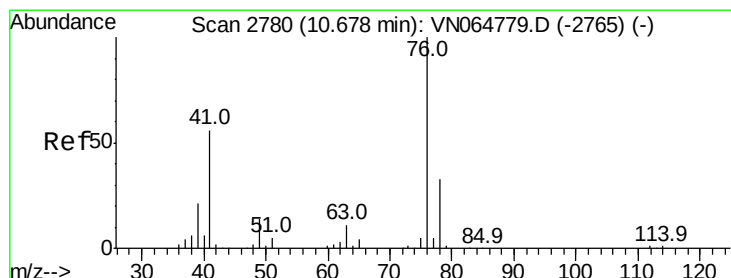
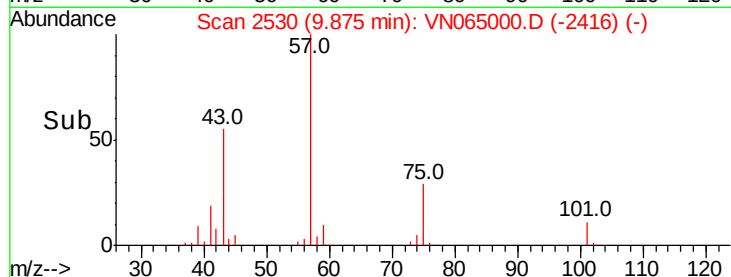
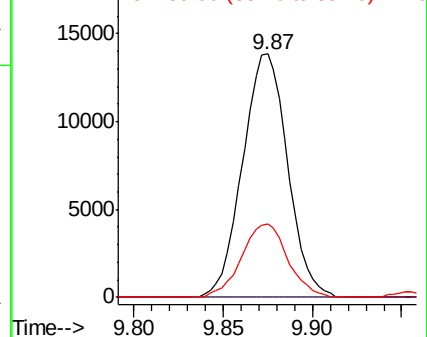
39 30.0 35.6 53.4#



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: 3.597 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN065000.D

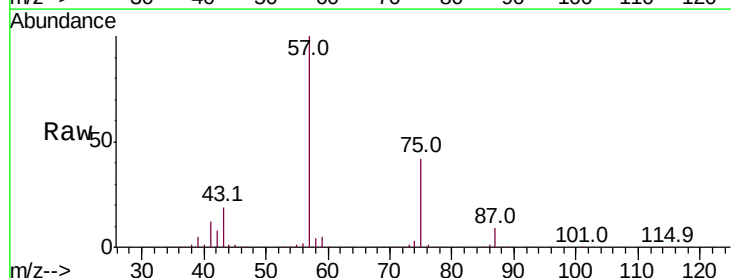
Acq: 9 Dec 2020 4:39

Tgt Ion: 76 Resp: 13557

Ion Ratio Lower Upper

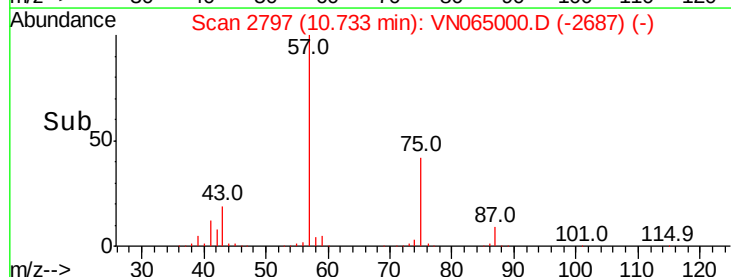
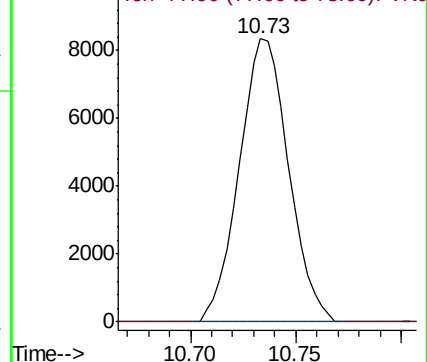
76 100

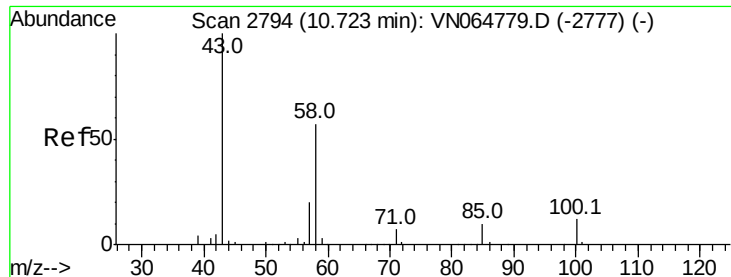
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

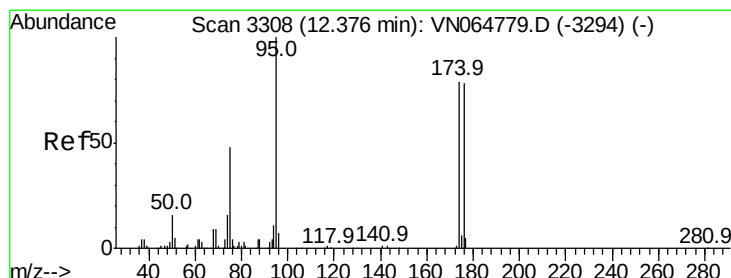
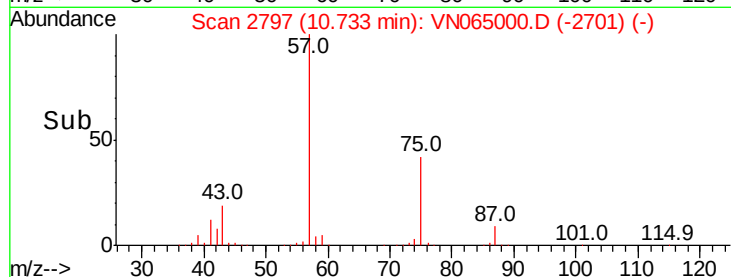
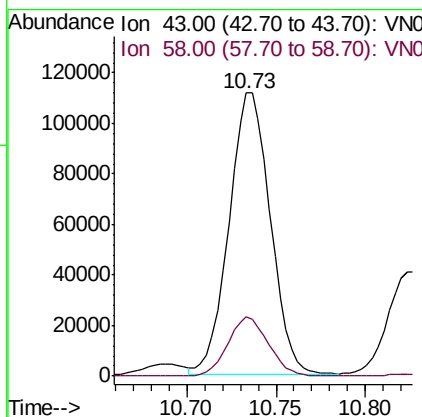
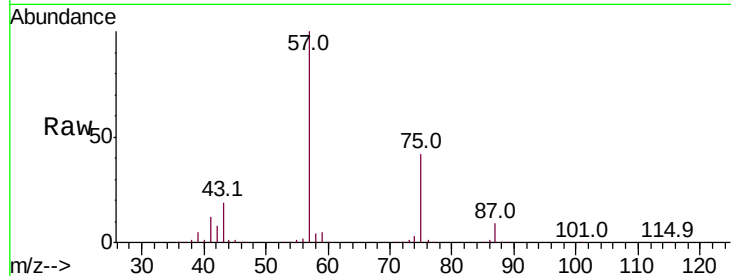




#59
2-Hexanone
Concen: 91.242 ug/l
RT: 10.73 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN065000.D
Acq: 9 Dec 2020 4:39

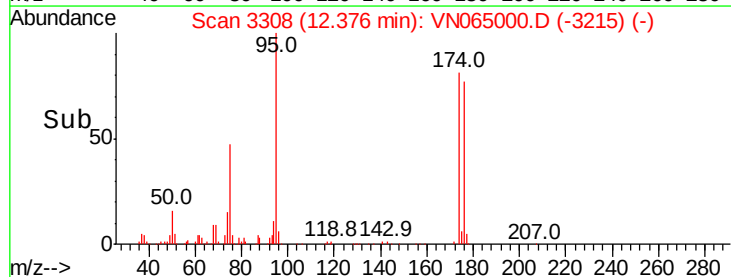
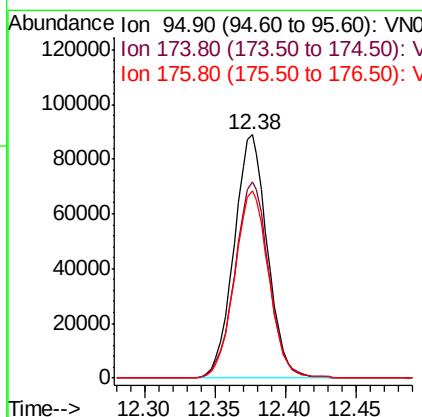
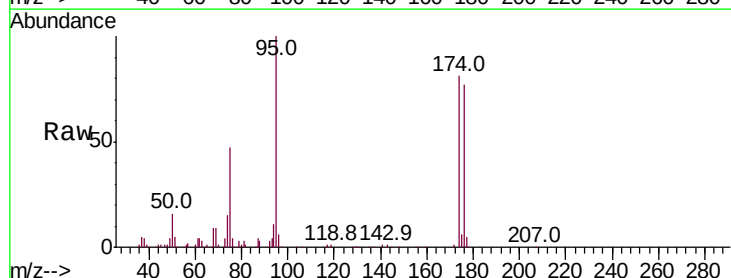
Instrument :
MSVOA_N
ClientSampleId :
4S2-D-TOP

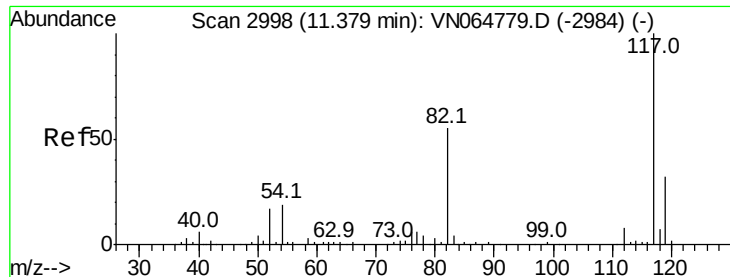
Tot Ion: 43 Resp: 179931
Ion Ratio Lower Upper
43 100
58 20.7 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 52.987 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065000.D
Acq: 9 Dec 2020 4:39

Tgt Ion: 95 Resp: 147286
Ion Ratio Lower Upper
95 100
174 82.6 0.0 160.4
176 78.9 0.0 158.4

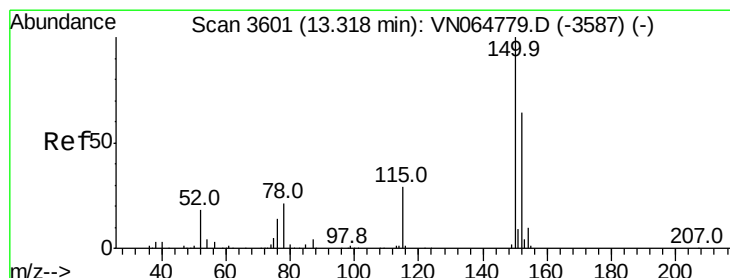
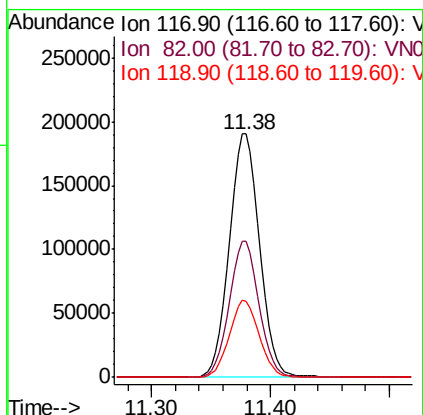
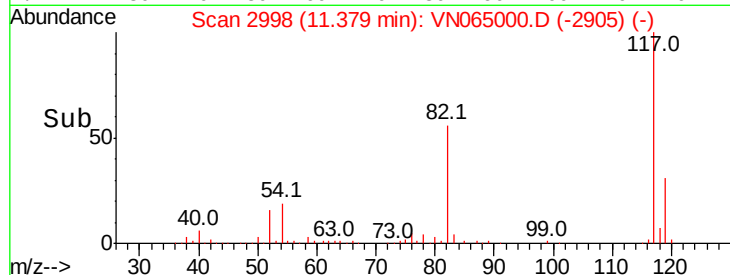
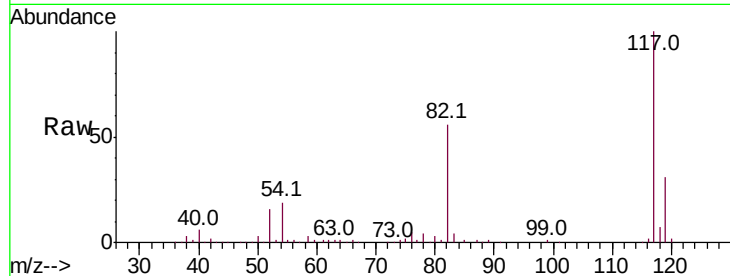




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065000.D
Acq: 9 Dec 2020 4:39

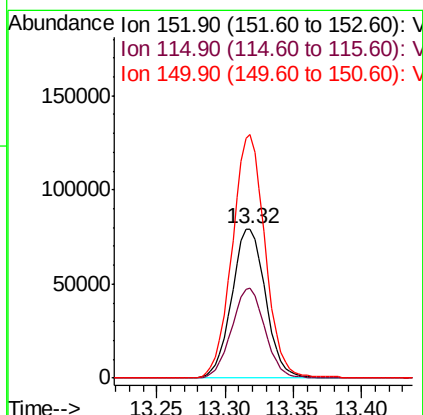
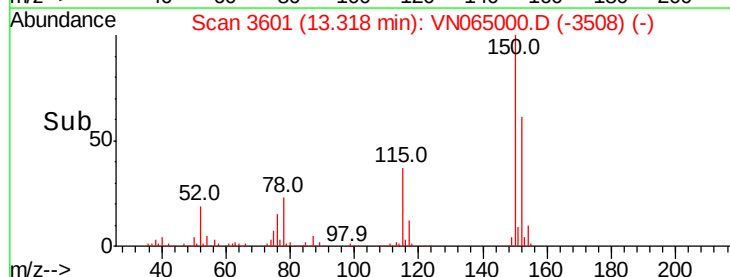
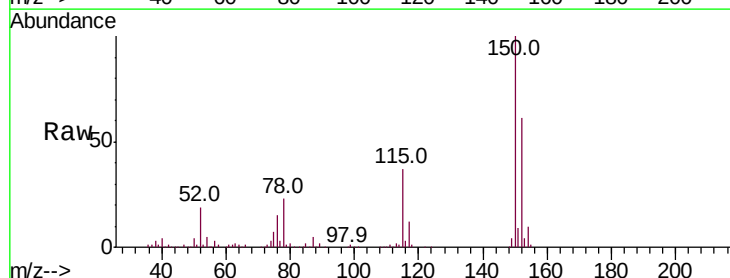
Instrument :
MSVOA_N
ClientSampleId :
4S2-D-TOP

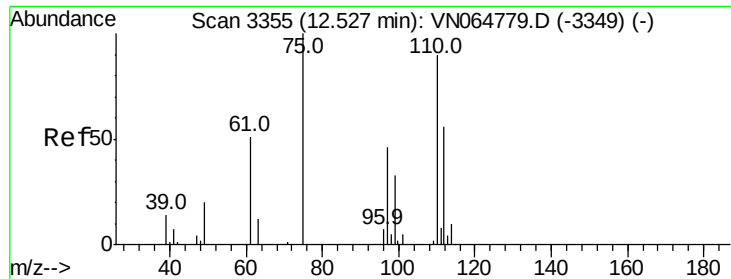
Tot Ion:117 Resp: 335321
Ion Ratio Lower Upper
117 100
82 56.1 44.2 66.2
119 31.4 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN065000.D
Acq: 9 Dec 2020 4:39

Tgt Ion:152 Resp: 136420
Ion Ratio Lower Upper
152 100
115 59.7 29.7 89.1
150 159.0 0.0 350.6





#76

1,2,3-Trichloropropane

Concen: 24.048 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

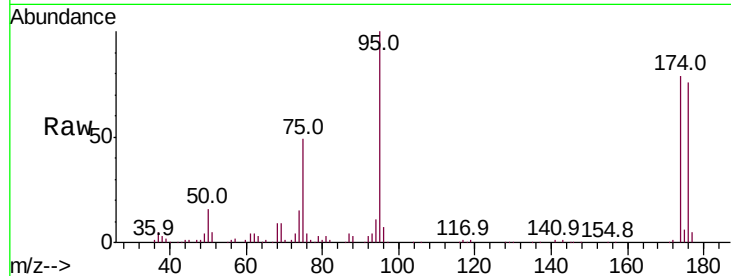
4S2-D-TOP

Tot Ion: 75 Resp: 70652

Ion Ratio Lower Upper

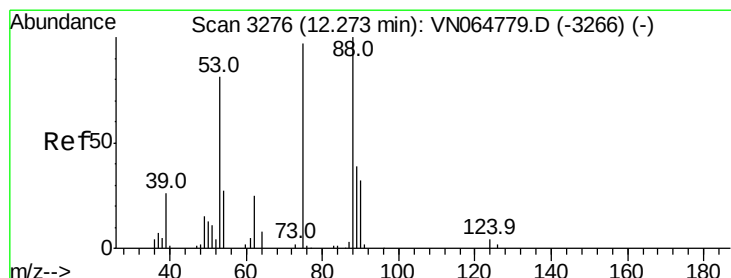
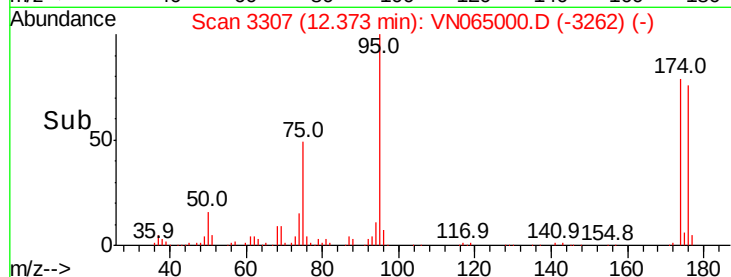
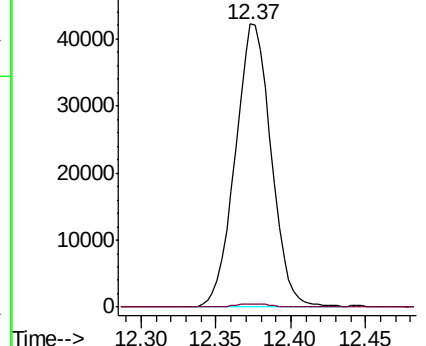
75 100

77 1.1 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: 65.911 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN065000.D

Acq: 9 Dec 2020 4:39

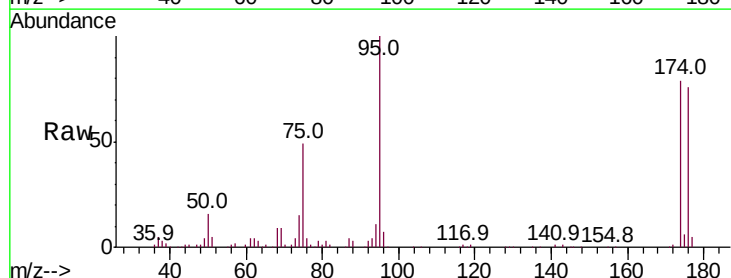
Tgt Ion: 75 Resp: 70652

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

