

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064996.D
 Acq On : 9 Dec 2020 3:03
 Operator : JC/MD
 Sample : L4970-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-B-TOP

Quant Time: Dec 09 07:59:37 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	164958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	317876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	334516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140632	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	107244	55.92	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	111.84%		
35) Dibromofluoromethane	7.55	113	99737	52.44	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	104.88%		
50) Toluene-d8	10.06	98	398008	51.21	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.42%		
62) 4-Bromofluorobenzene	12.38	95	147642	53.08	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	106.16%		

Target Compounds

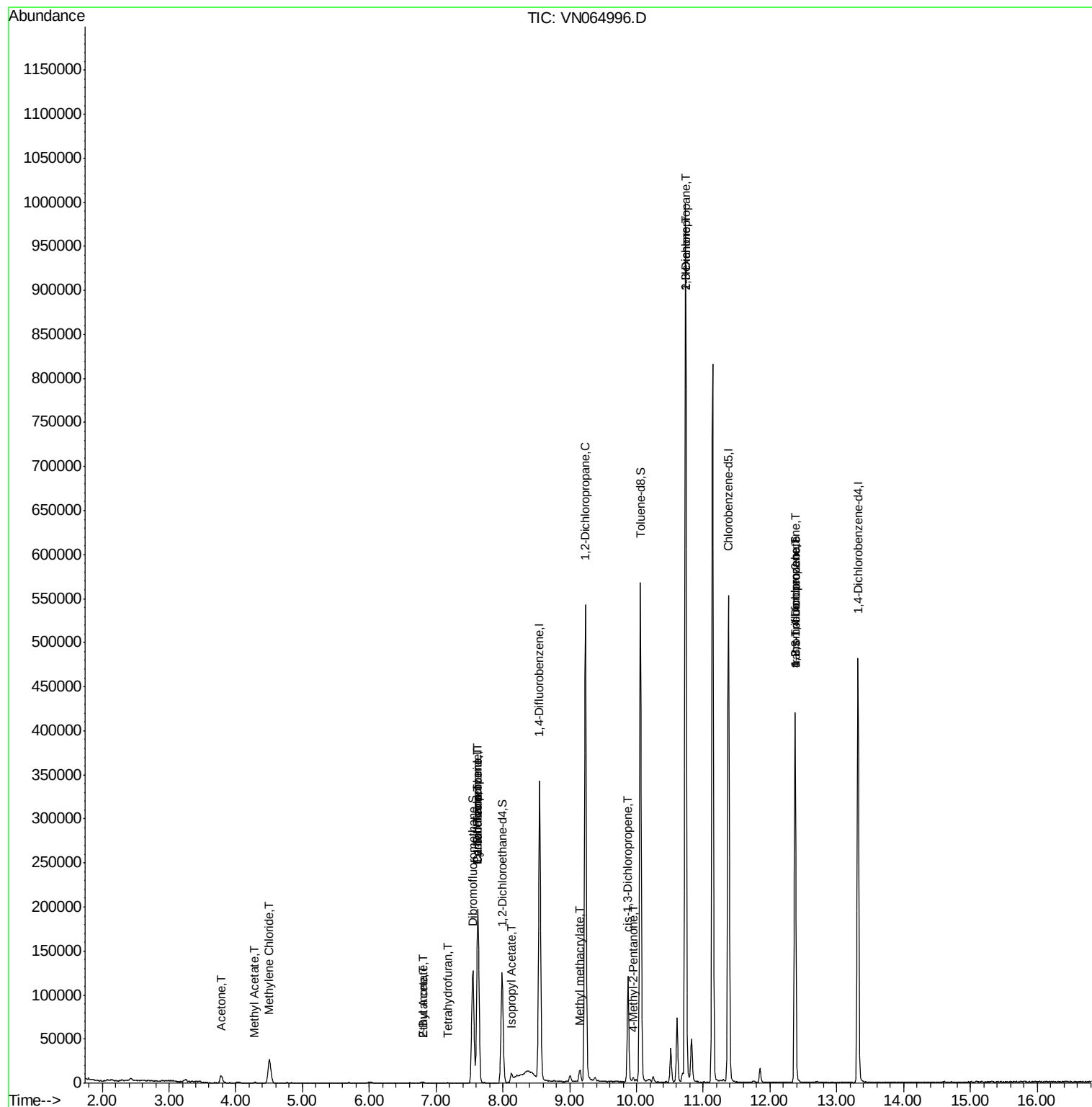
					Qvalue	
16) Acetone	3.78	43	14908	23.648	ug/l	99
18) Methyl Acetate	4.28	43	607	0.320	ug/l #	50
20) Methylene Chloride	4.51	84	20984	10.622	ug/l	97
25) 2-Butanone	6.80	43	1883	1.843	ug/l #	83
29) Tetrahydrofuran	7.18	42	192	0.272	ug/l #	32
31) Cyclohexane	7.62	56	2797	1.046	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11465	3.891	ug/l #	49
37) Ethyl Acetate	6.80	43	1883	0.663	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15327	4.999	ug/l #	18
43) Isopropyl Acetate	8.13	43	13948	3.054	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	554	0.237	ug/l #	43
48) Methyl methacrylate	9.14	41	3421	1.568	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3317	1.210	ug/l	87
54) cis-1,3-Dichloropropene	9.87	75	22018	5.868	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	10286	2.727	ug/l #	42
59) 2-Hexanone	10.74	43	135672	68.757	ug/l #	51
76) 1,2,3-Trichloropropane	12.37	75	71705	23.676	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	71705	64.890	ug/l #	15

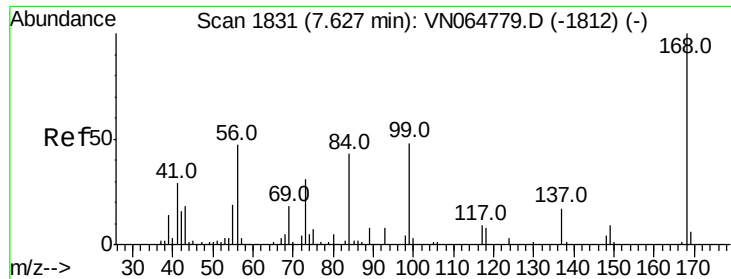
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

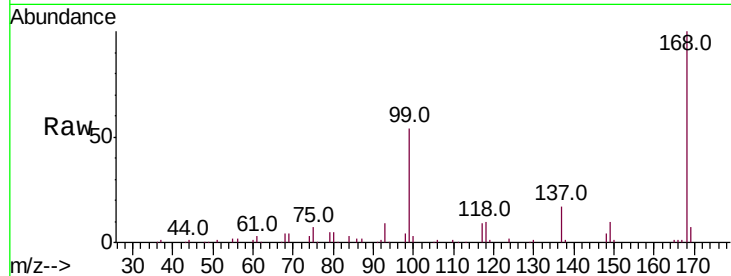
4S2-B-TOP

Tot Ion:168 Resp: 164958

Ion Ratio Lower Upper

168 100

99 53.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

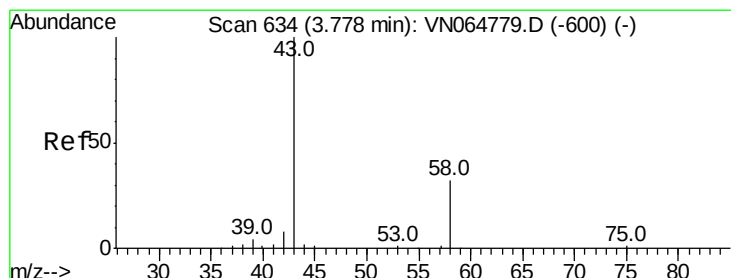
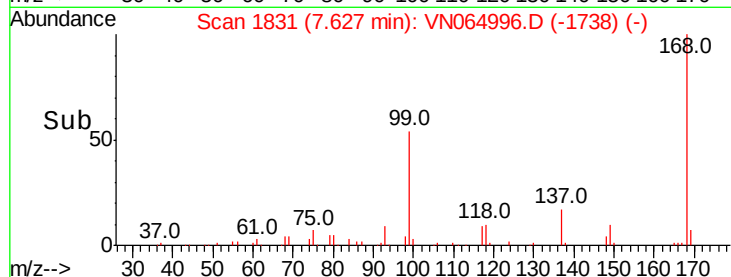
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 23.648 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064996.D

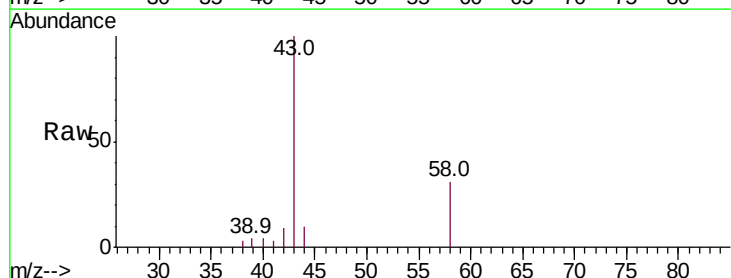
Acq: 9 Dec 2020 3:03

Tgt Ion: 43 Resp: 14908

Ion Ratio Lower Upper

43 100

58 31.4 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

6000

5000

4000

3000

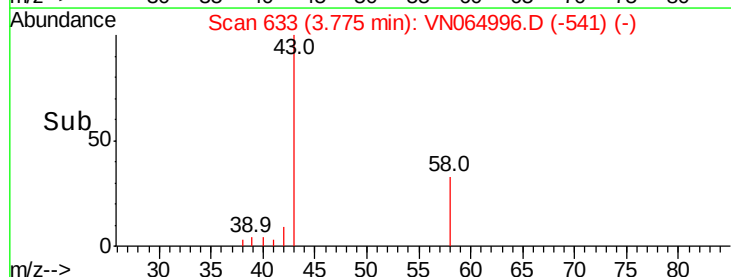
2000

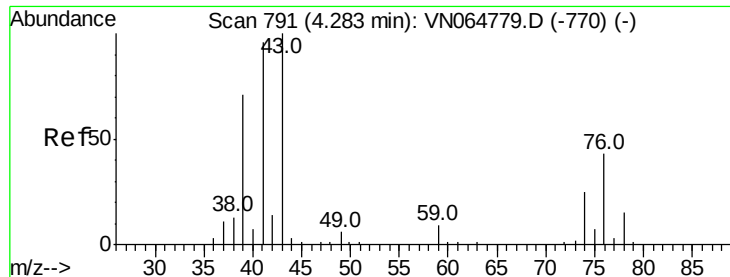
1000

0

3.70 3.75 3.80 3.85

Time-->

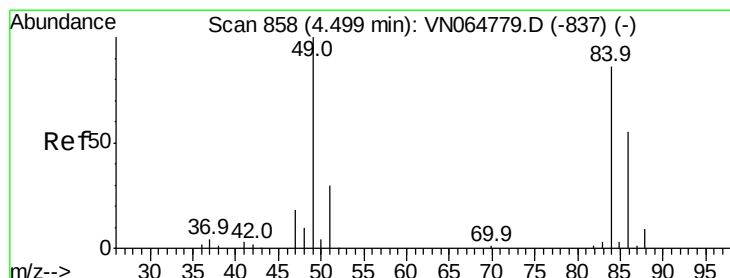
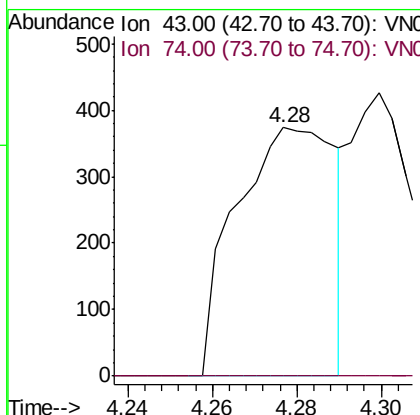
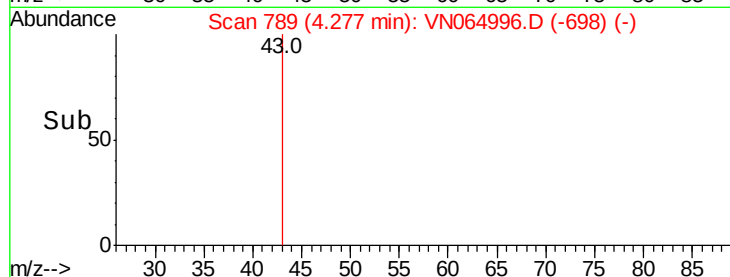
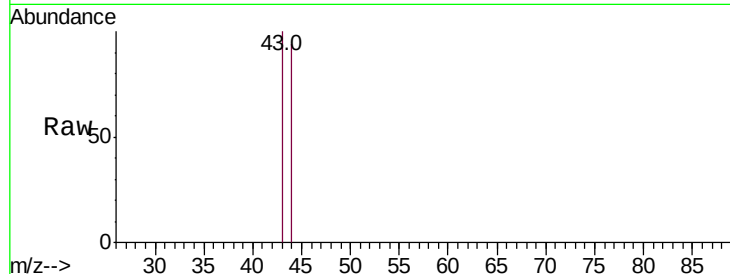




#18
Methyl Acetate
Concen: 0.320 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.01 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

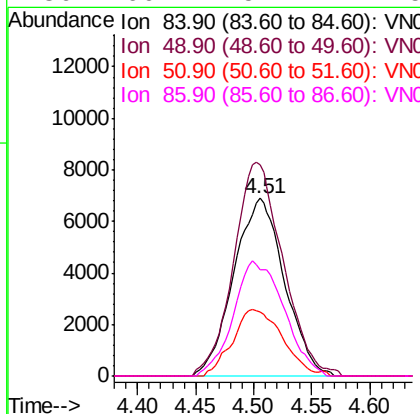
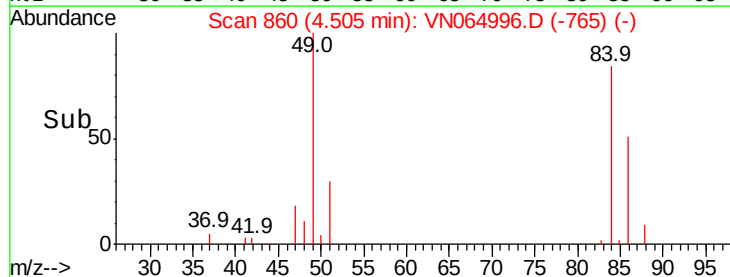
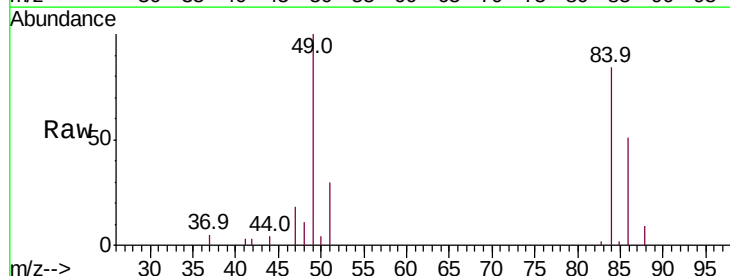
Instrument :
MSVOA_N
ClientSampleId :
4S2-B-TOP

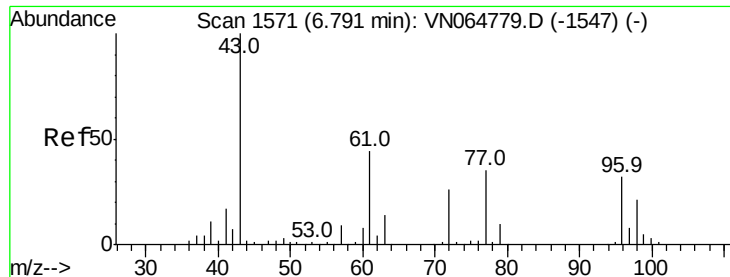
Tot Ion: 43 Resp: 607
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 10.622 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

Tgt Ion: 84 Resp: 20984
Ion Ratio Lower Upper
84 100
49 118.9 93.4 140.0
51 35.8 28.2 42.4
86 60.1 51.7 77.5





#25

2-Butanone

Concen: 1.843 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampled :

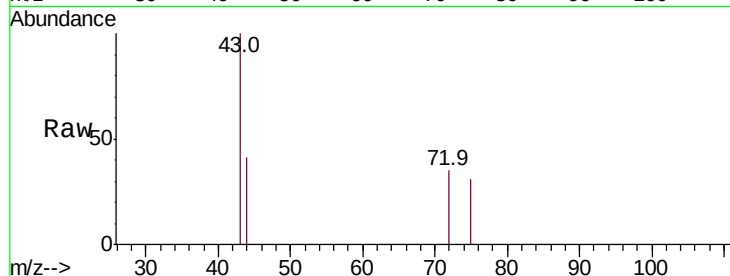
4S2-B-TOP

Tot Ion: 43 Resp: 1883

Ion Ratio Lower Upper

43 100

72 34.8 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.80

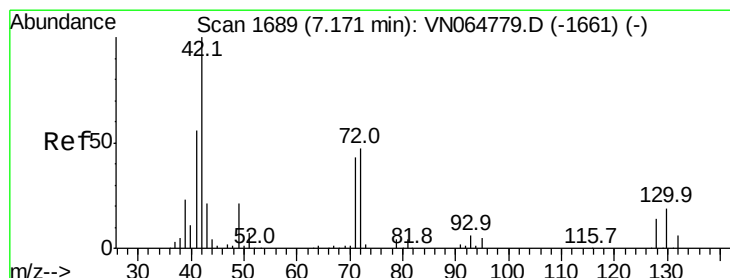
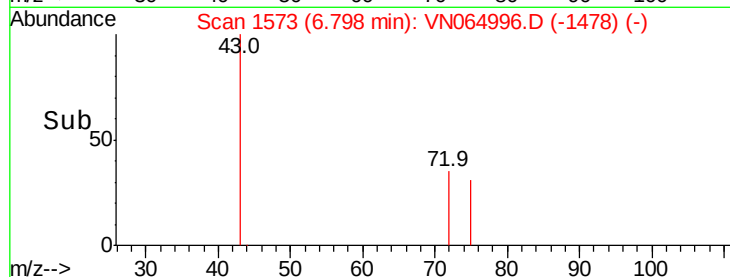
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

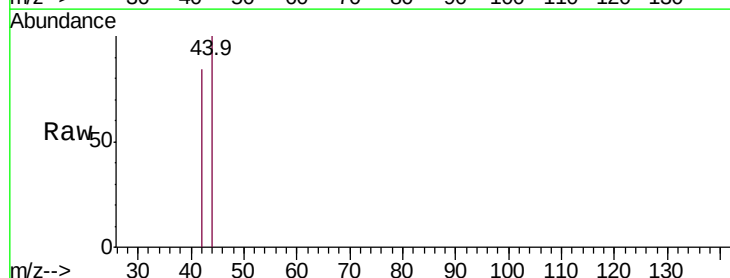
Tgt Ion: 42 Resp: 192

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

300

250

200

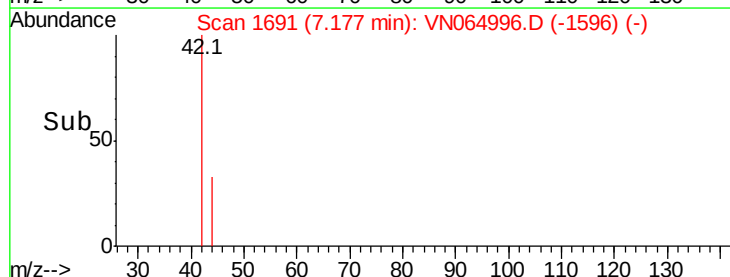
150

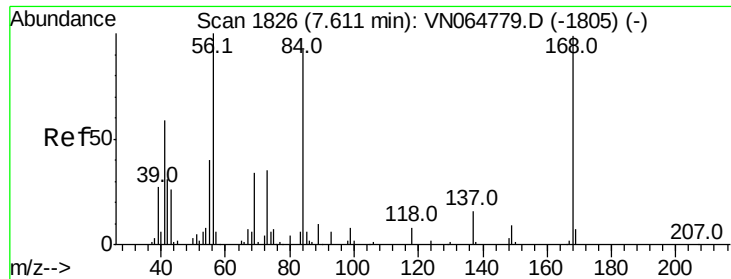
100

50

0

Time-->

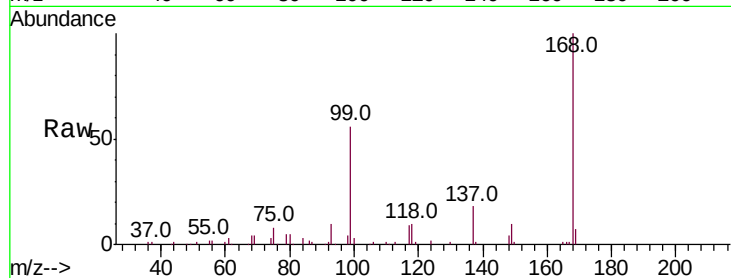




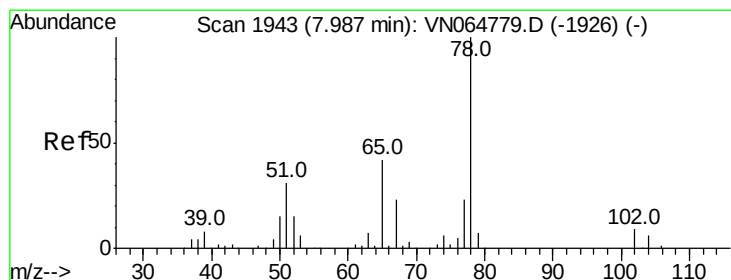
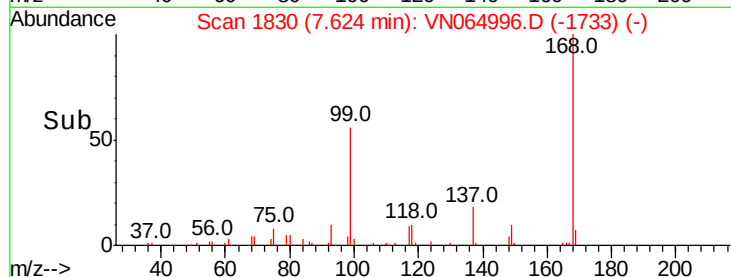
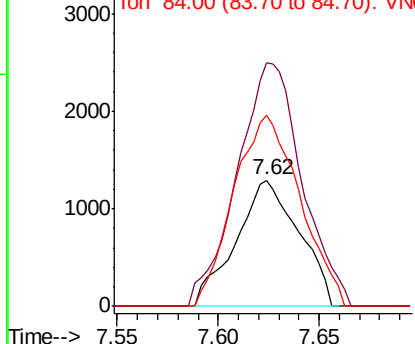
#31
Cyclohexane
Concen: 1.046 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

Instrument :
MSVOA_N
ClientSampleId :
4S2-B-TOP

Tot Ion: 56 Resp: 2797
Ion Ratio Lower Upper
56 100
69 193.3 27.5 41.3#
84 151.9 73.9 110.9#

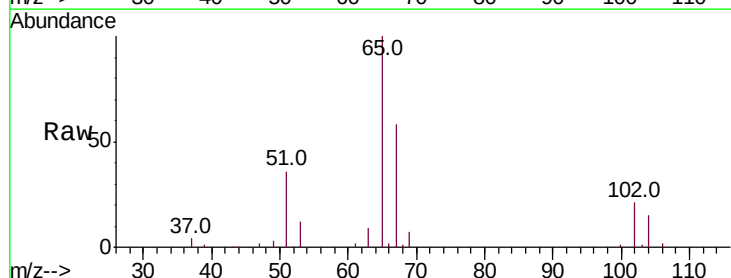


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

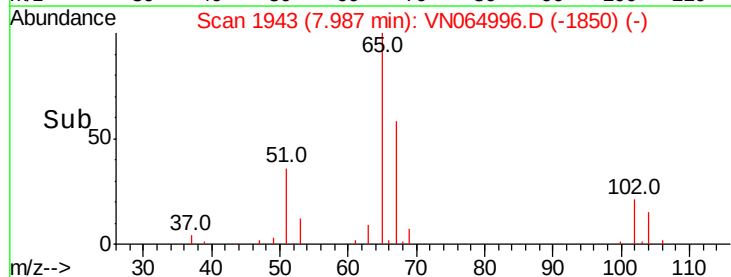
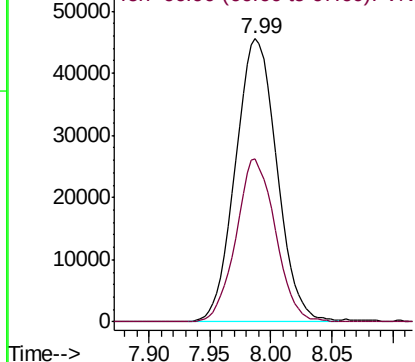


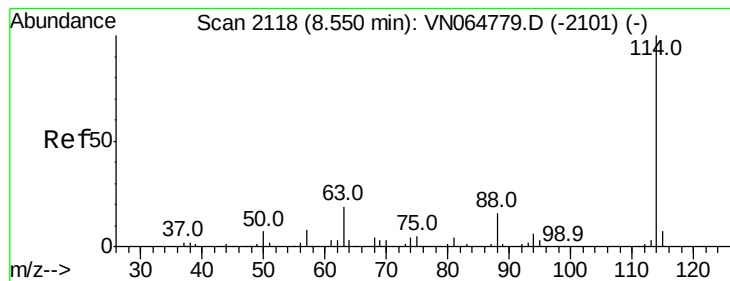
#33
1,2-Dichloroethane-d4
Concen: 55.922 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

Tgt Ion: 65 Resp: 107244
Ion Ratio Lower Upper
65 100
67 54.5 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: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-B-TOP

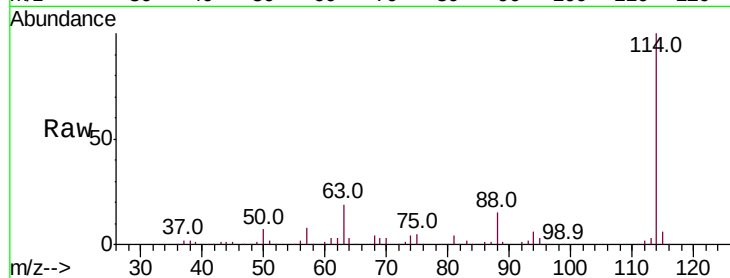
Tot Ion:114 Resp: 317876

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.6

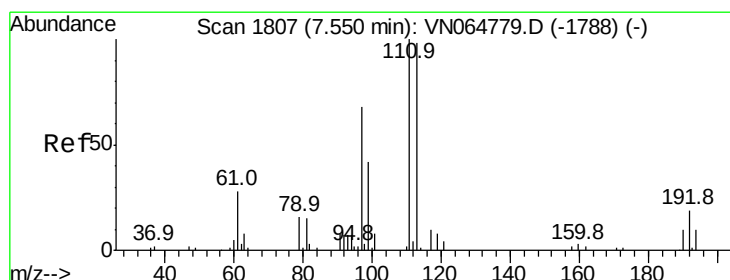
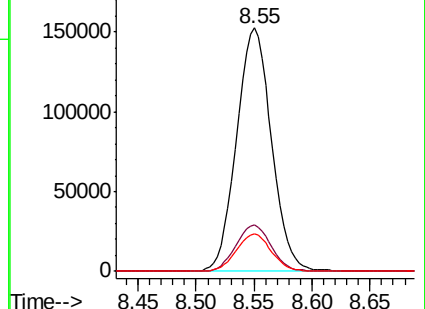
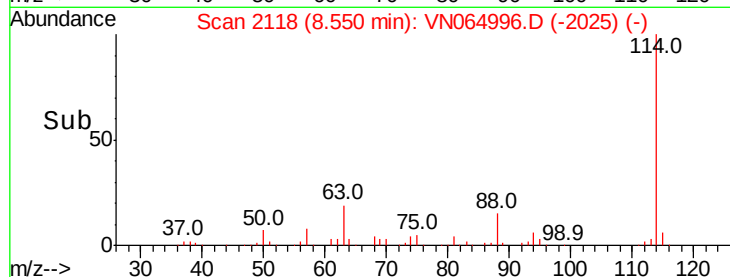
88 15.3 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 52.436 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

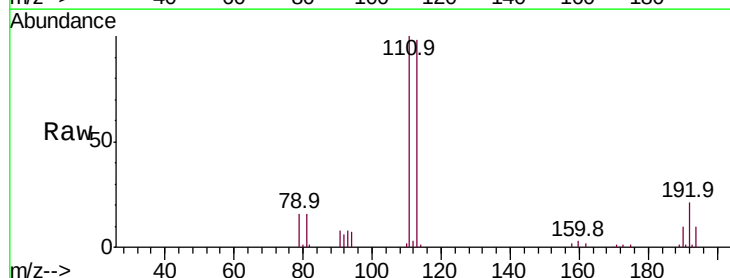
Tgt Ion:113 Resp: 99737

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

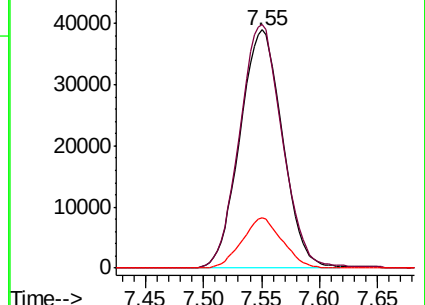
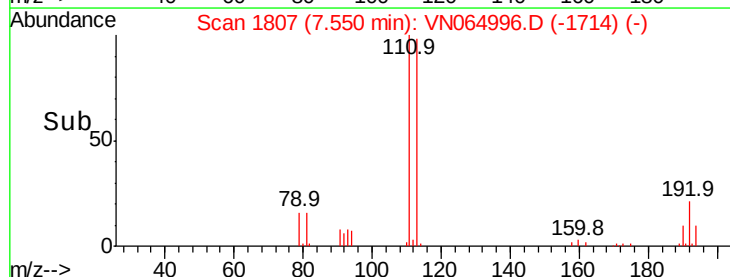
192 19.9 16.2 24.2

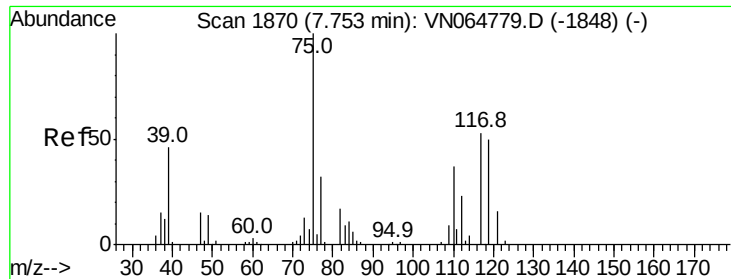


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

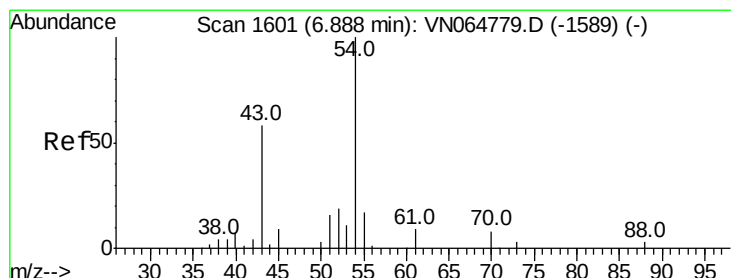
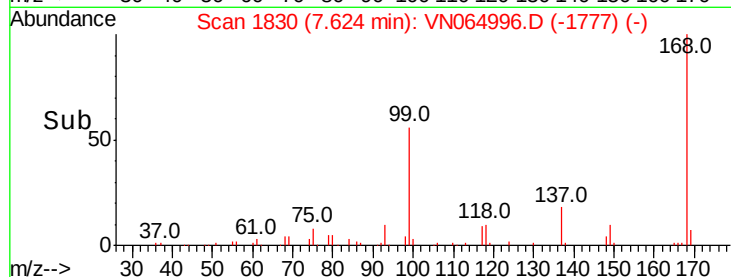
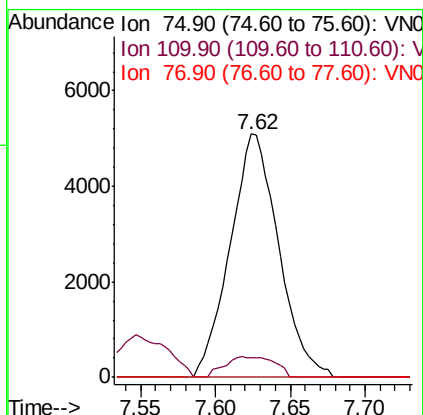
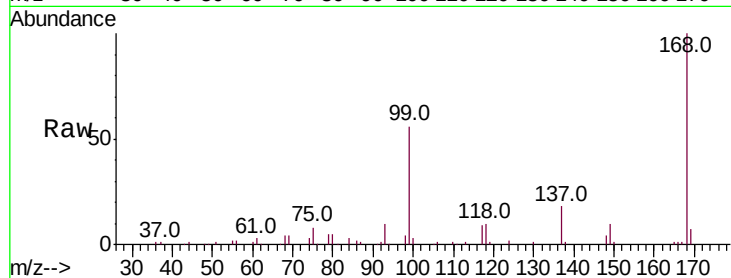




#36
 1,1-Dichloropropene
 Concen: 3.891 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064996.D
 Acq: 9 Dec 2020 3:03

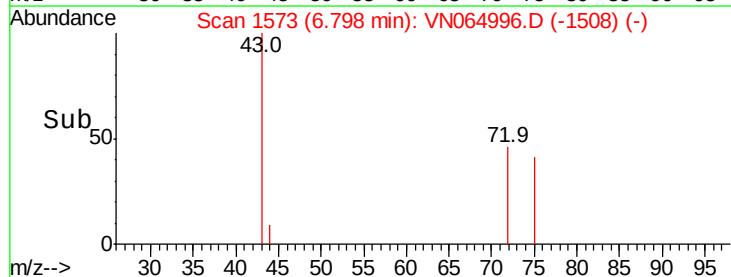
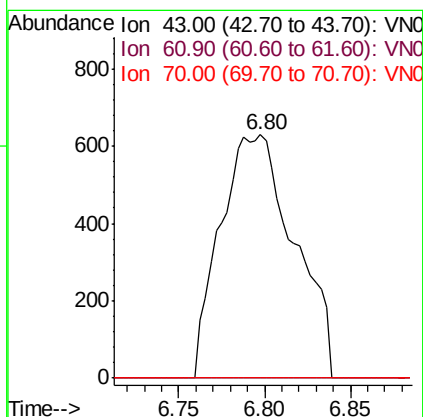
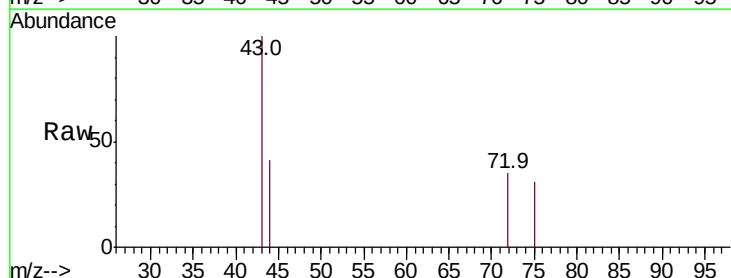
Instrument :
 MSVOA_N
 ClientSampled :
 4S2-B-TOP

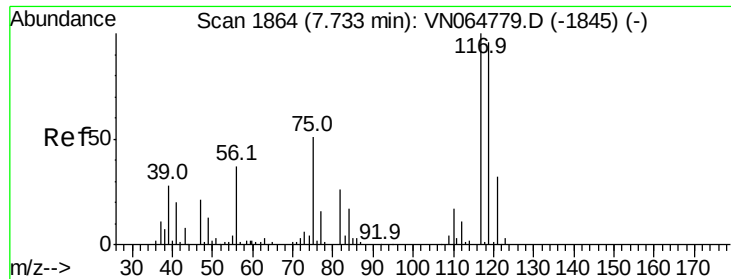
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.8	53.3#
77	0.0	25.0	37.4#



#37
 Ethyl Acetate
 Concen: 0.663 ug/l
 RT: 6.80 min Scan# 1573
 Delta R.T. -0.09 min
 Lab File: VN064996.D
 Acq: 9 Dec 2020 3:03

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.8	19.2#
70	0.0	8.8	13.2#





#38

Carbon Tetrachloride

Concen: 4.999 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampled :

4S2-B-TOP

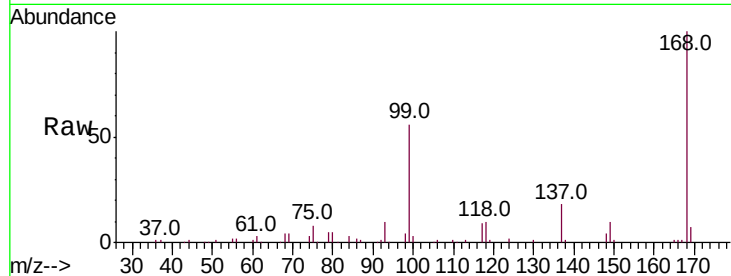
Tot Ion:117 Resp: 15327

Ion Ratio Lower Upper

117 100

119 8.3 76.7 115.1#

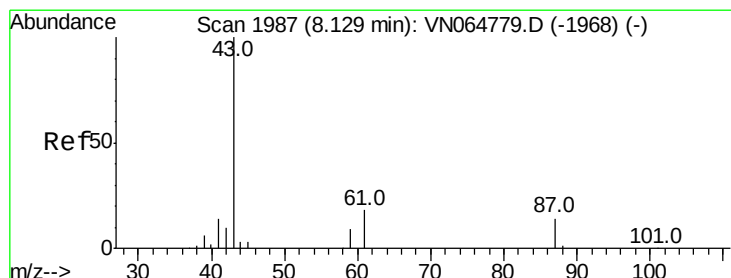
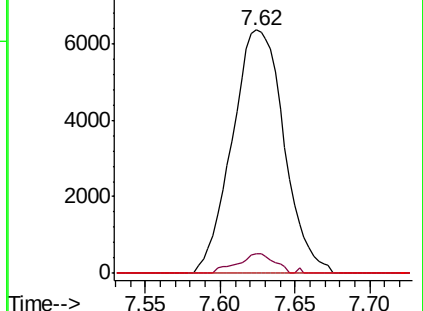
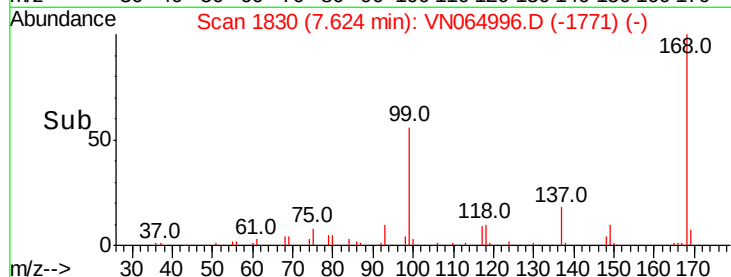
121 0.0 25.4 38.2#



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: 3.054 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

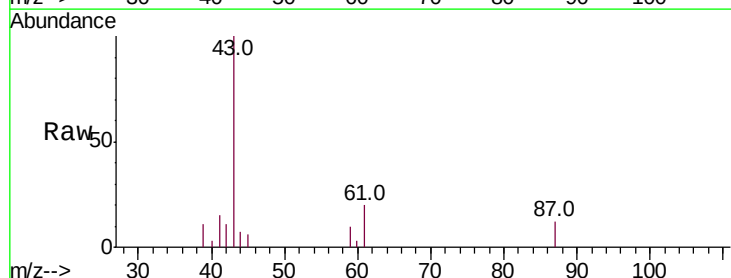
Tgt Ion: 43 Resp: 13948

Ion Ratio Lower Upper

43 100

61 16.8 17.2 25.8#

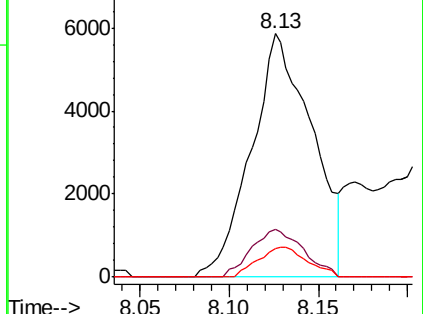
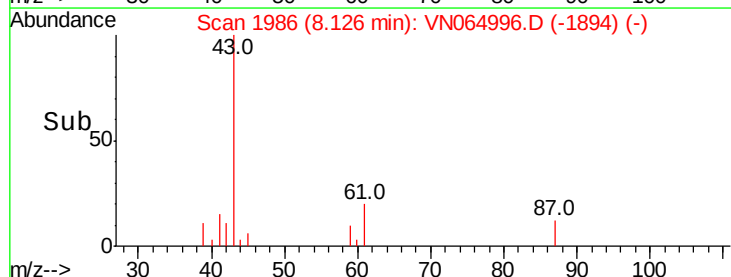
87 9.9 11.4 17.0#

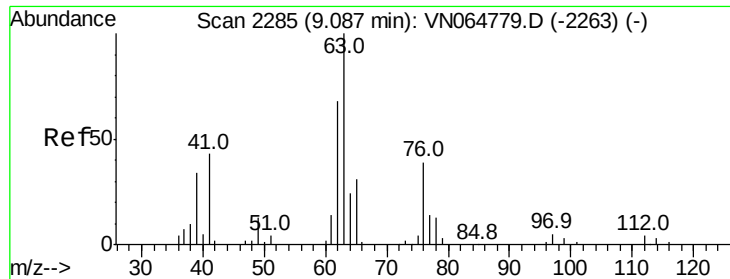


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

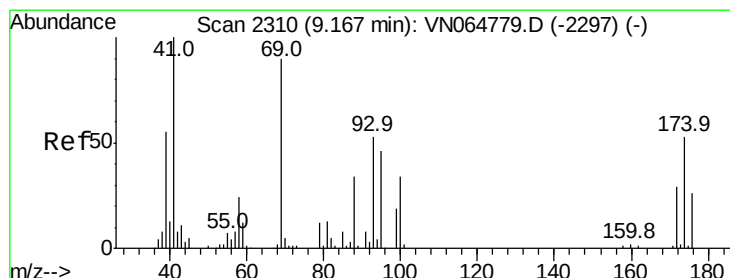
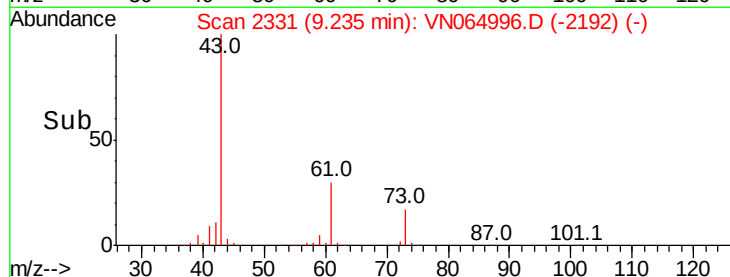
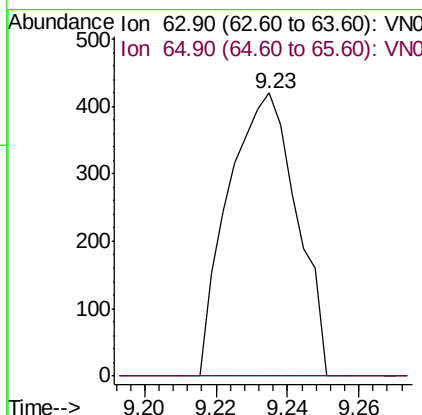
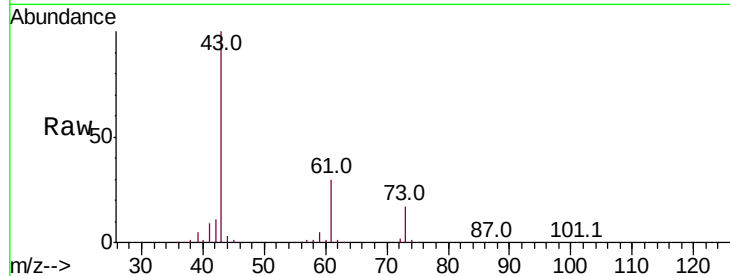




#45
 1,2-Dichloropropane
 Concen: 0.237 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064996.D
 Acq: 9 Dec 2020 3:03

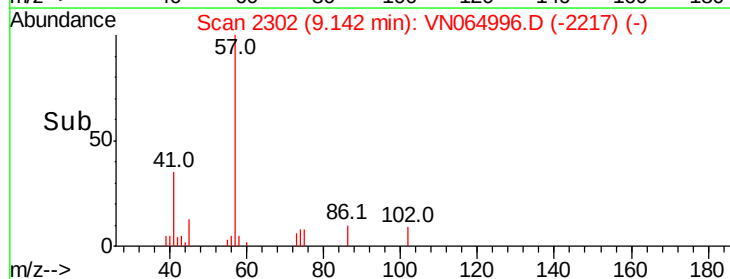
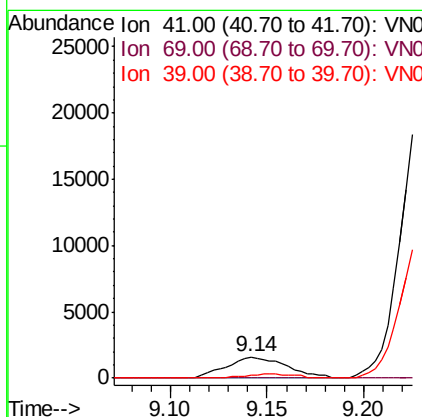
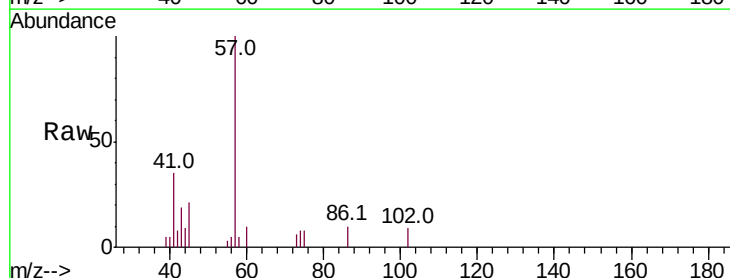
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-B-TOP

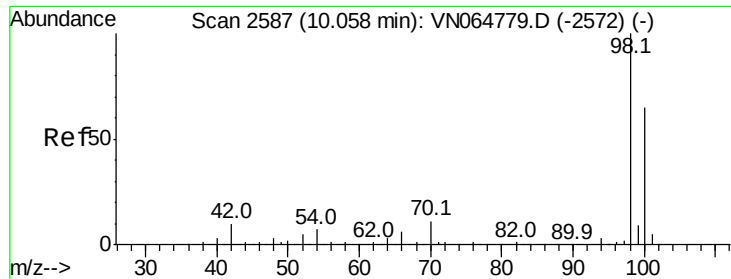
Tot Ion: 63 Resp: 554
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.568 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN064996.D
 Acq: 9 Dec 2020 3:03

Tgt Ion: 41 Resp: 3421
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 51.212 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampled :

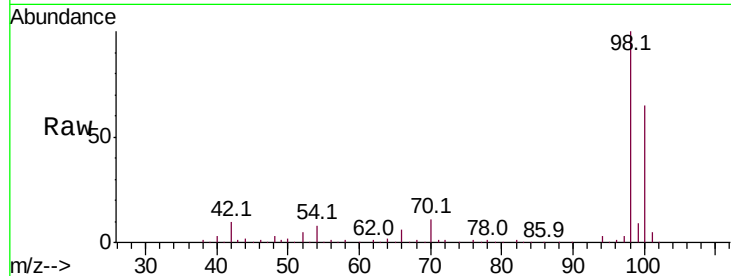
4S2-B-TOP

Tot Ion: 98 Resp: 398008

Ion Ratio Lower Upper

98 100

100 65.1 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

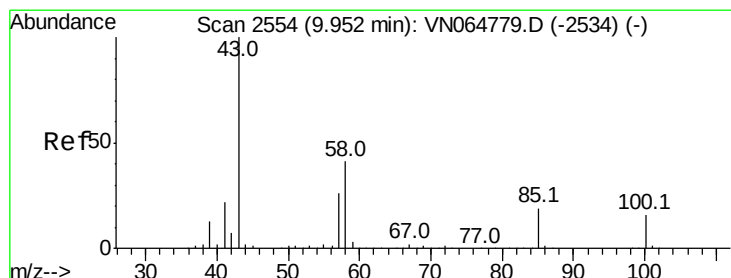
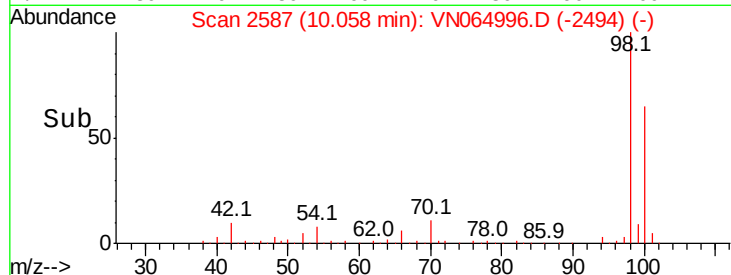
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.210 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064996.D

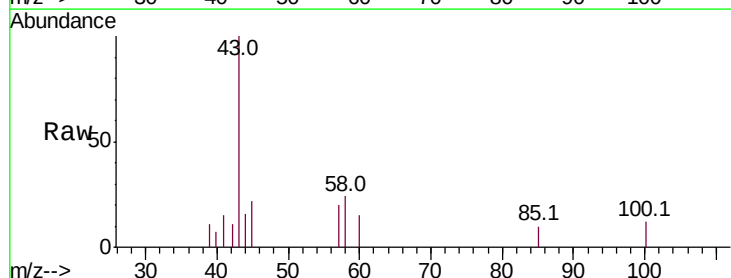
Acq: 9 Dec 2020 3:03

Tgt Ion: 43 Resp: 3317

Ion Ratio Lower Upper

43 100

58 32.5 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

3000

2000

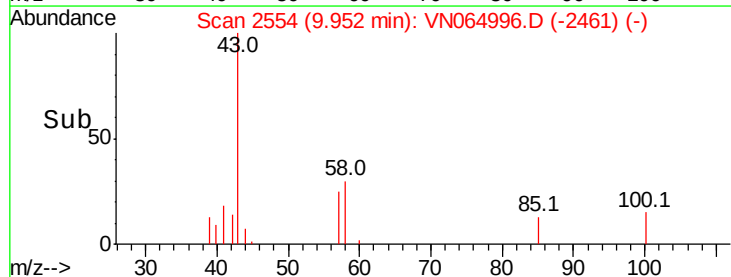
1000

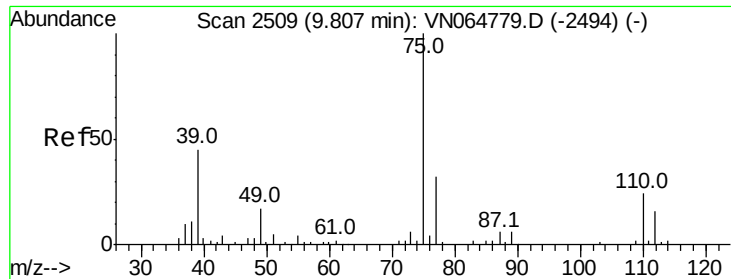
0

9.95

9.95

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.868 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

4S2-B-TOP

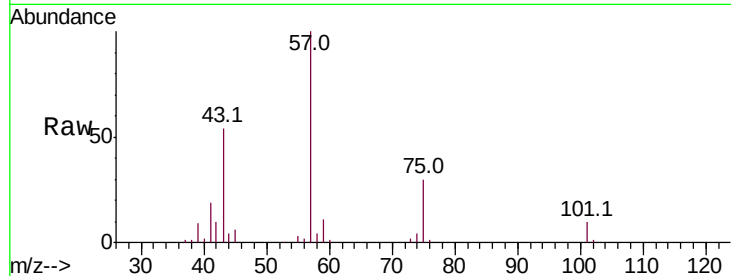
Tot Ion: 75 Resp: 22018

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

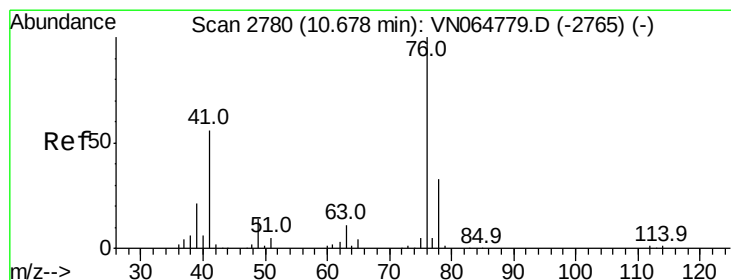
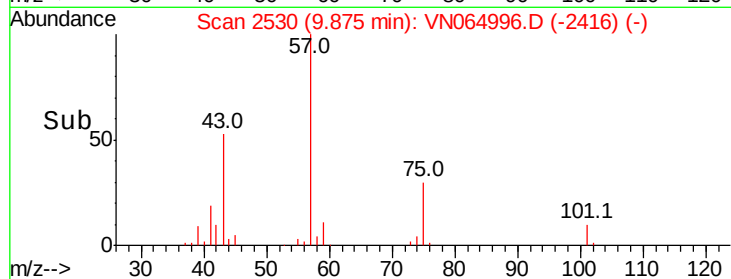
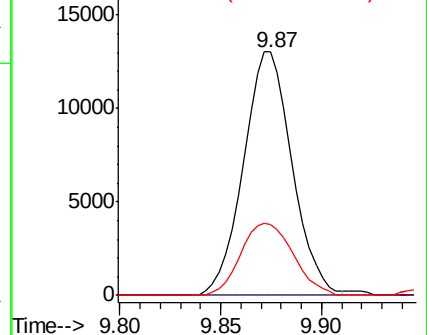
39 29.3 35.6 53.4#



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: 2.727 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064996.D

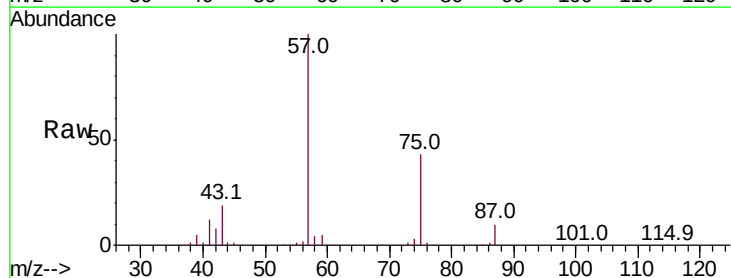
Acq: 9 Dec 2020 3:03

Tgt Ion: 76 Resp: 10286

Ion Ratio Lower Upper

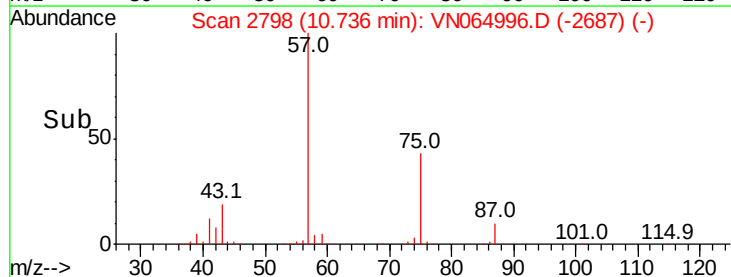
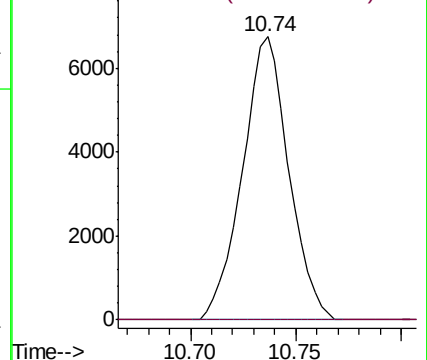
76 100

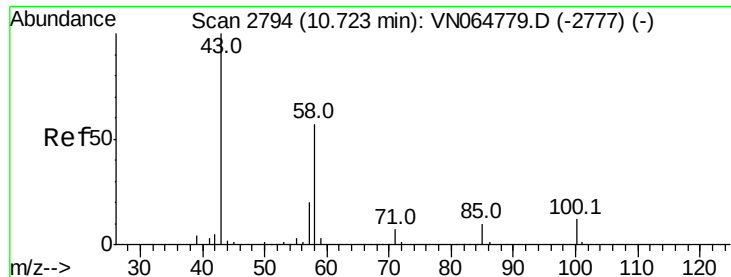
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

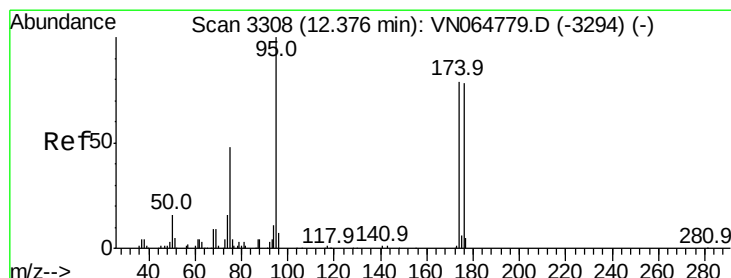
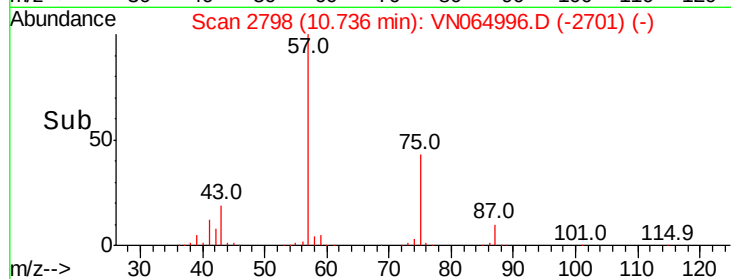
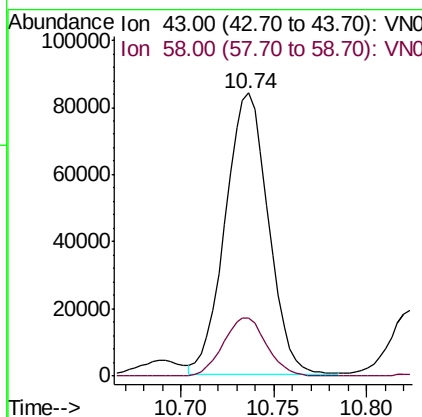
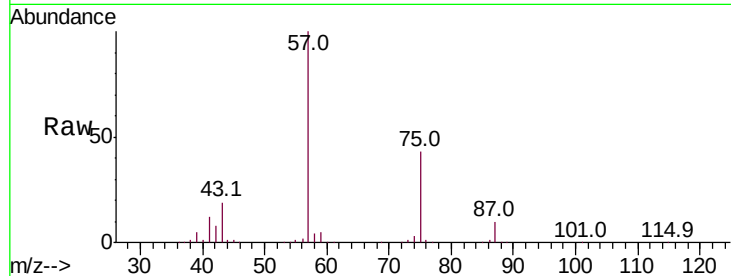




#59
2-Hexanone
Concen: 68.757 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

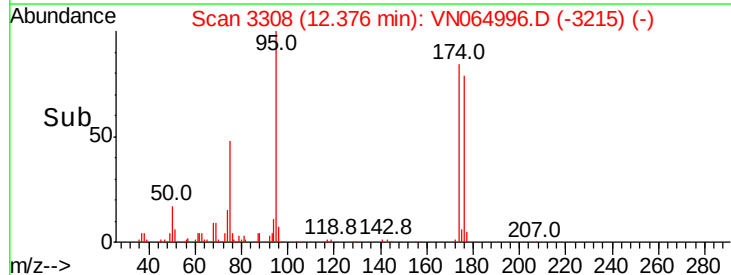
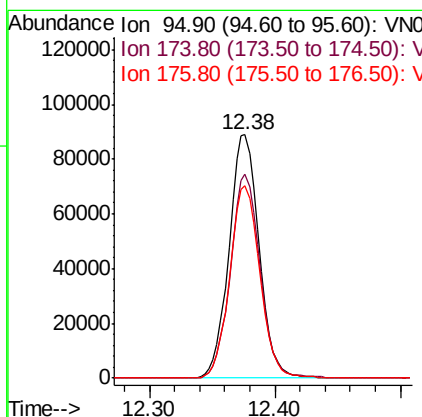
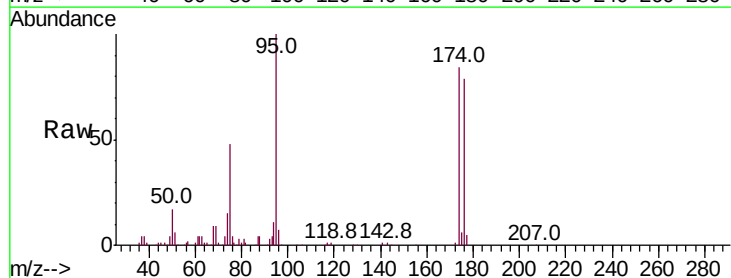
Instrument :
MSVOA_N
ClientSampleId :
4S2-B-TOP

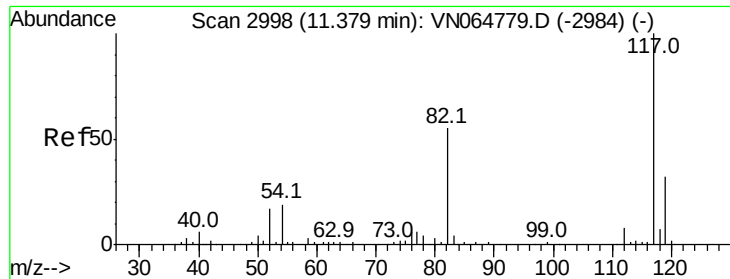
Tot Ion: 43 Resp: 135672
Ion Ratio Lower Upper
43 100
58 20.9 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 53.083 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

Tgt Ion: 95 Resp: 147642
Ion Ratio Lower Upper
95 100
174 82.9 0.0 160.4
176 79.5 0.0 158.4

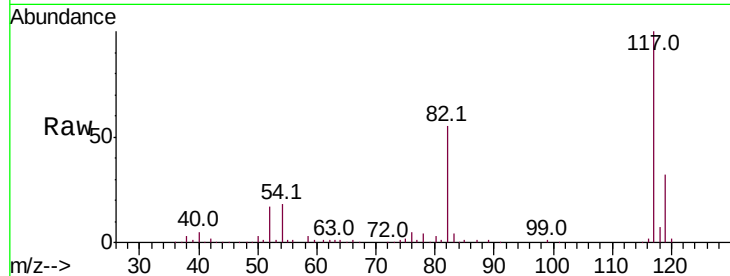




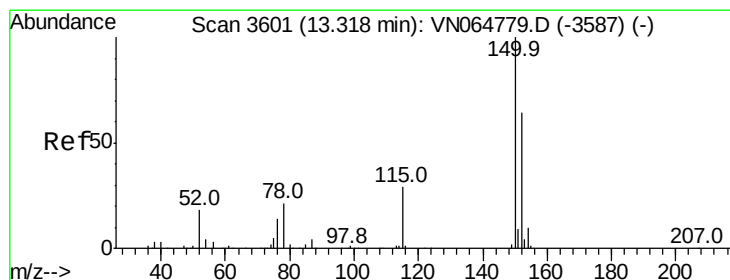
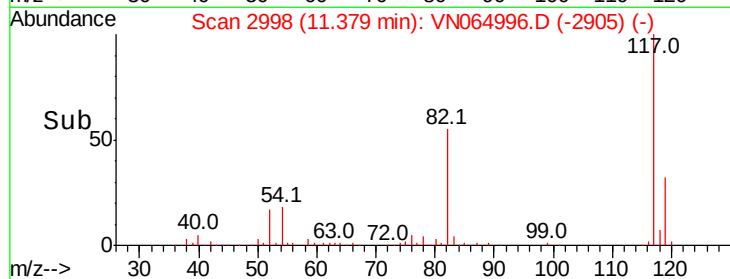
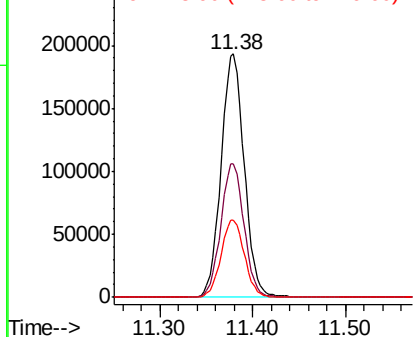
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

Instrument :
MSVOA_N
ClientSampled :
4S2-B-TOP

Tot Ion:117 Resp: 334516
Ion Ratio Lower Upper
117 100
82 55.0 44.2 66.2
119 32.0 25.8 38.6

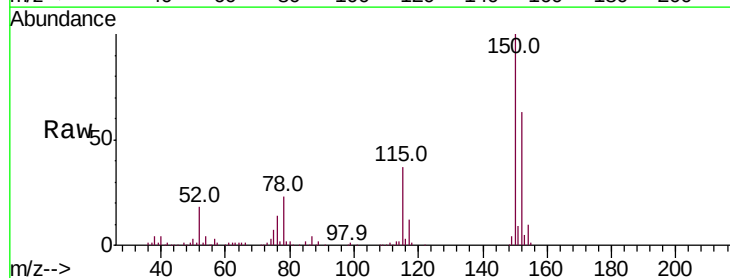


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

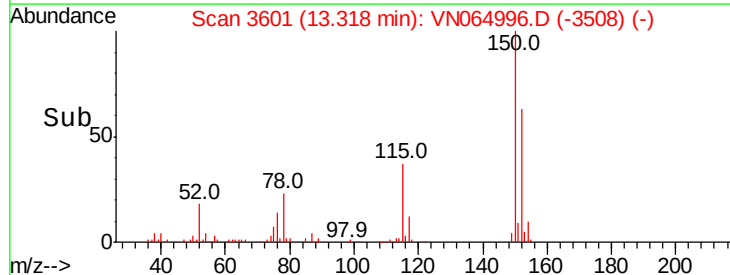
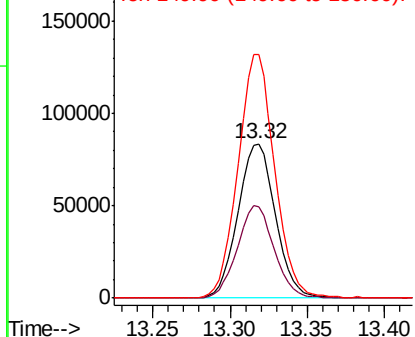


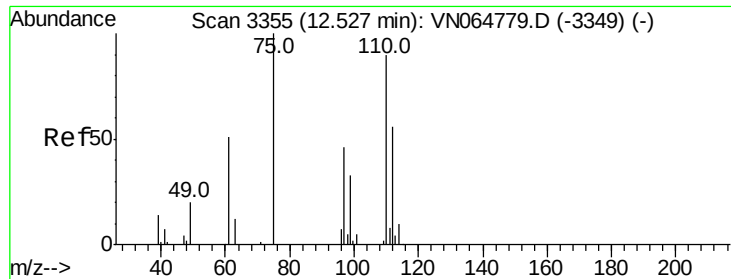
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064996.D
Acq: 9 Dec 2020 3:03

Tgt Ion:152 Resp: 140632
Ion Ratio Lower Upper
152 100
115 58.7 29.7 89.1
150 154.6 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: 23.676 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

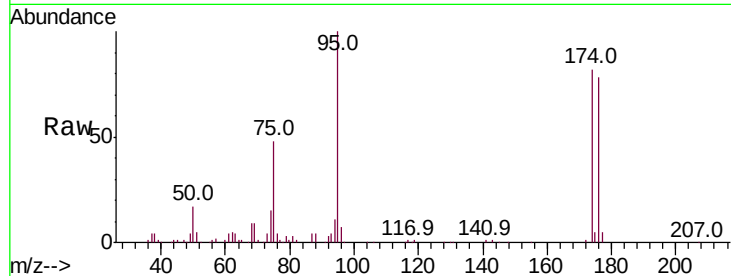
4S2-B-TOP

Tot Ion: 75 Resp: 71705

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.37

40000

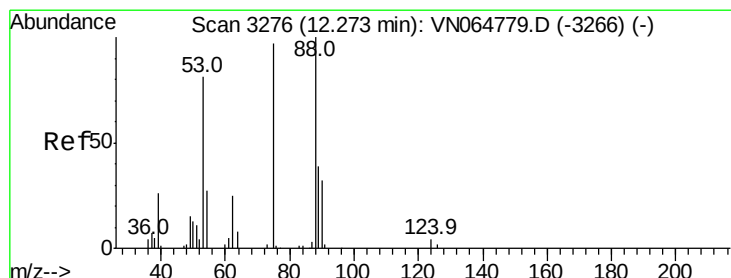
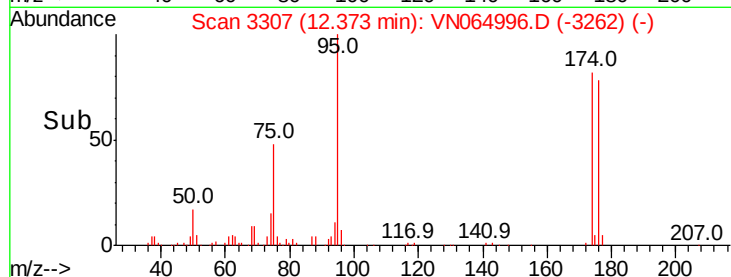
30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 64.890 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064996.D

Acq: 9 Dec 2020 3:03

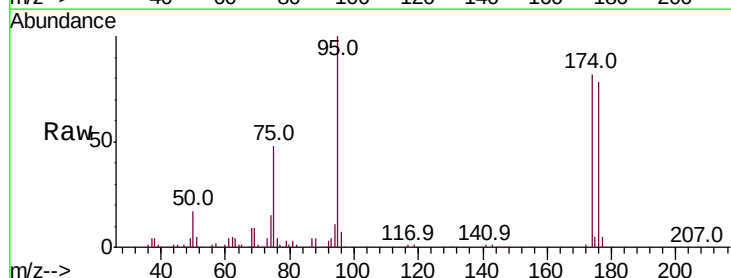
Tgt Ion: 75 Resp: 71705

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

12.37

40000

30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45

