

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064997.D
 Acq On : 9 Dec 2020 3:27
 Operator : JC/MD
 Sample : L4970-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-B-BOTTOM

Quant Time: Dec 09 07:59:46 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	165111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	316748	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	335338	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139101	50.00	ug/l	0.00

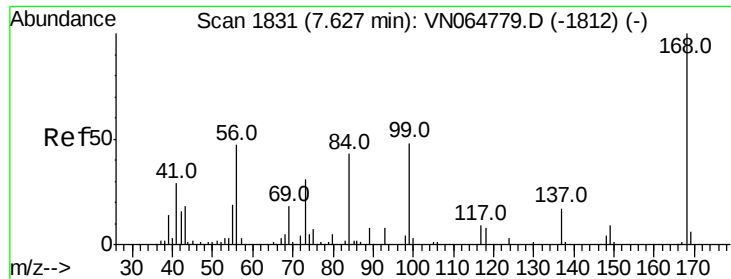
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	109682	57.14	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	114.28%
35) Dibromofluoromethane	7.55	113	99398	52.44	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.88%
50) Toluene-d8	10.06	98	403871	52.15	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	104.30%
62) 4-Bromofluorobenzene	12.38	95	148973	53.75	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.50%

Target Compounds

					Qvalue	
16) Acetone	3.78	43	11509	18.239	ug/l	90
18) Methyl Acetate	4.29	43	801	0.422	ug/l #	50
20) Methylene Chloride	4.50	84	19925	10.077	ug/l	94
25) 2-Butanone	6.80	43	1433	1.401	ug/l #	49
29) Tetrahydrofuran	7.17	42	185	0.262	ug/l #	32
31) Cyclohexane	7.63	56	2790	1.043	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	12238	4.168	ug/l #	48
37) Ethyl Acetate	6.80	43	1433	0.507	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15588	5.103	ug/l #	17
43) Isopropyl Acetate	8.13	43	15112	3.321	ug/l #	88
45) 1,2-Dichloropropane	9.24	63	826	0.355	ug/l #	43
48) Methyl methacrylate	9.14	41	3726	1.713	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	2882	1.055	ug/l #	66
54) cis-1,3-Dichloropropene	9.87	75	22945	6.137	ug/l #	65
57) 1,3-Dichloropropane	10.73	76	12617	3.357	ug/l #	42
59) 2-Hexanone	10.74	43	165098	83.968	ug/l #	50
71) Bromoform	12.38	173	1172	0.554	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	70490	23.531	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	70490	64.492	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

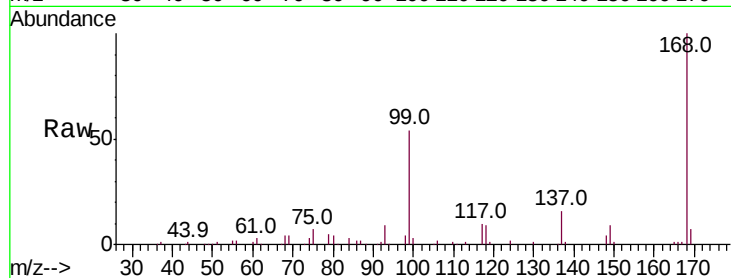
4S2-B-BOTTOM

Tot Ion:168 Resp: 165111

Ion Ratio Lower Upper

168 100

99 53.6 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

80000

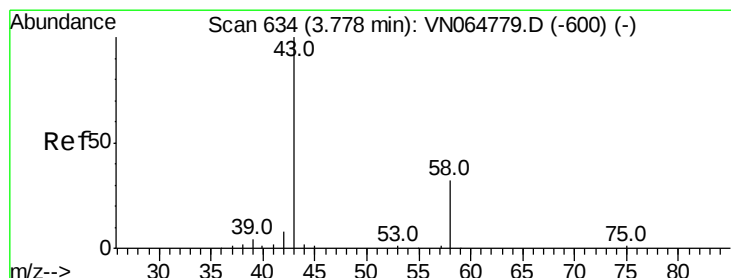
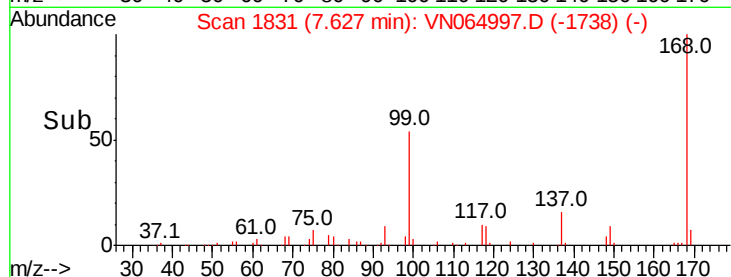
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 18.239 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064997.D

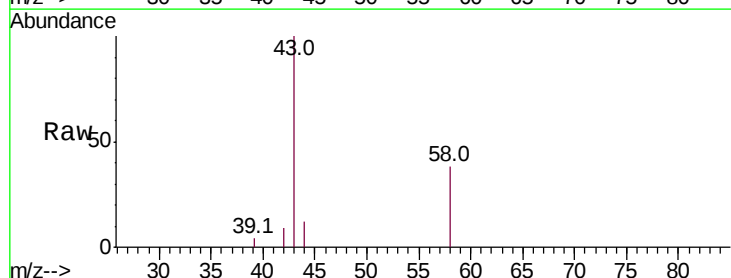
Acq: 9 Dec 2020 3:27

Tgt Ion: 43 Resp: 11509

Ion Ratio Lower Upper

43 100

58 37.7 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

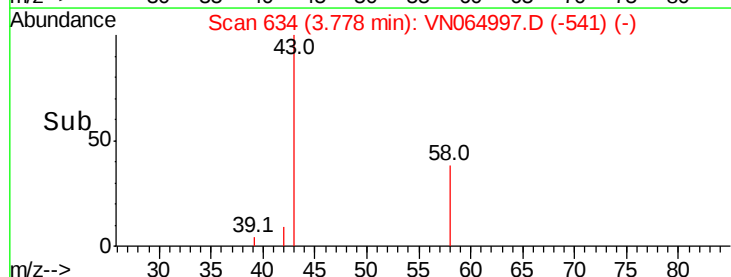
3000

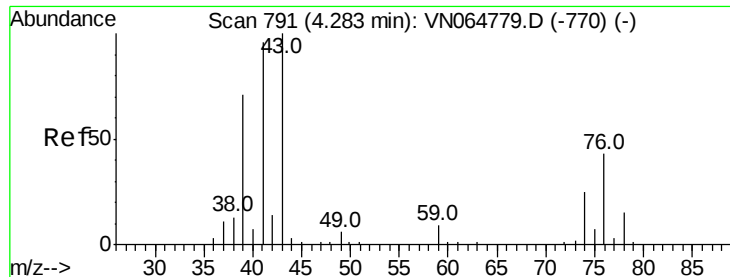
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

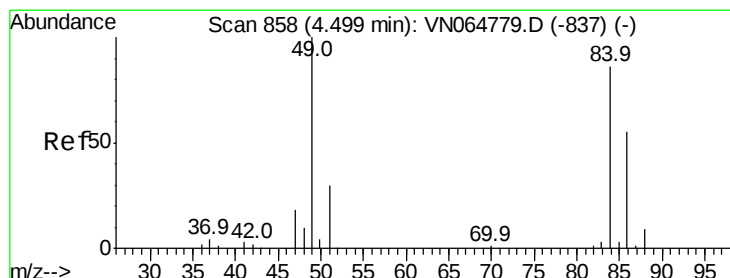
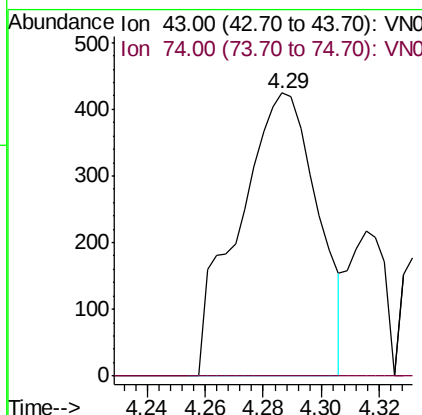
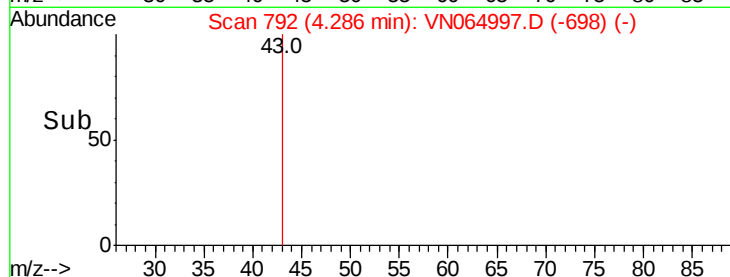
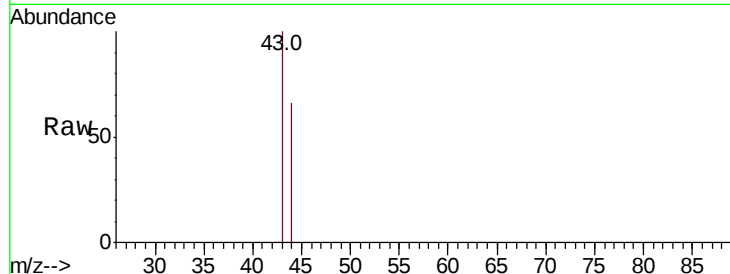




#18
Methyl Acetate
Concen: 0.422 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

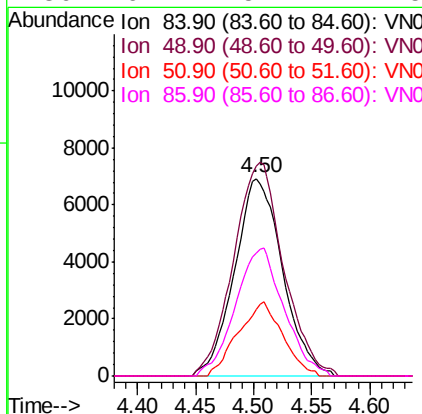
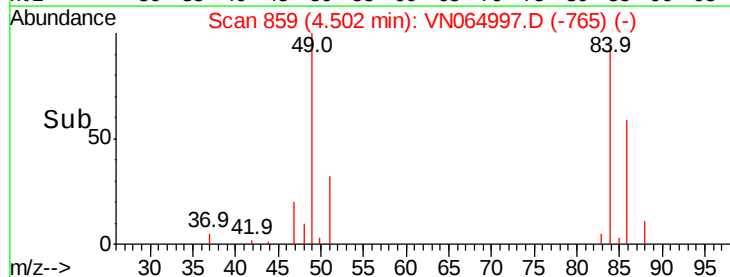
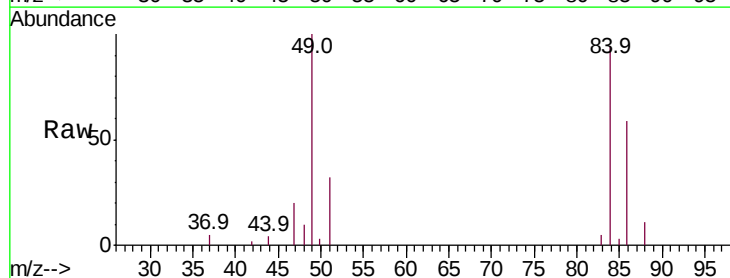
Instrument :
MSVOA_N
ClientSampleId :
4S2-B-BOTTOM

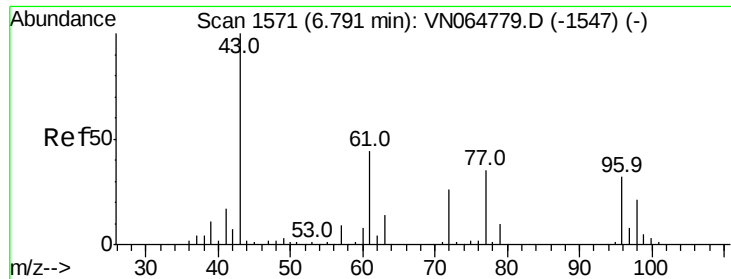
Tot Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 10.077 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

Tgt Ion: 84 Resp: 19925
Ion Ratio Lower Upper
84 100
49 106.3 93.4 140.0
51 33.7 28.2 42.4
86 62.4 51.7 77.5





#25

2-Butanone

Concen: 1.401 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

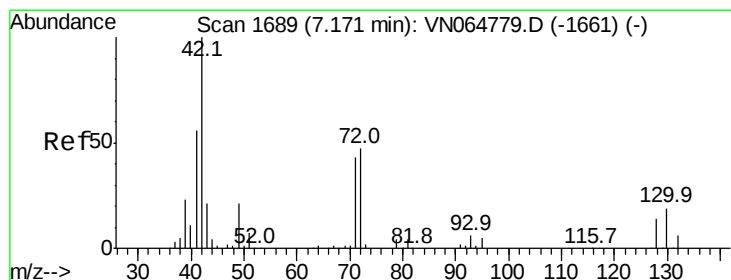
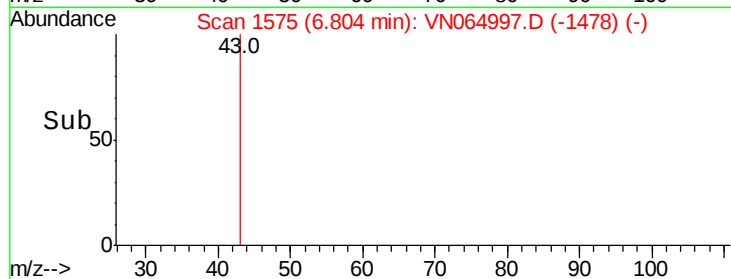
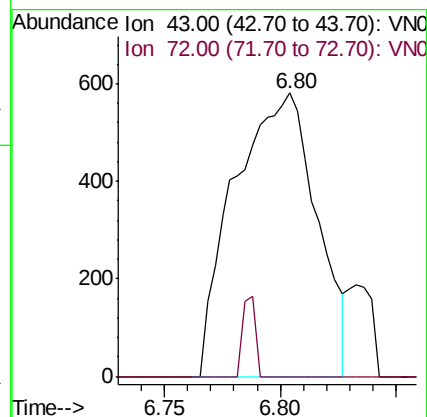
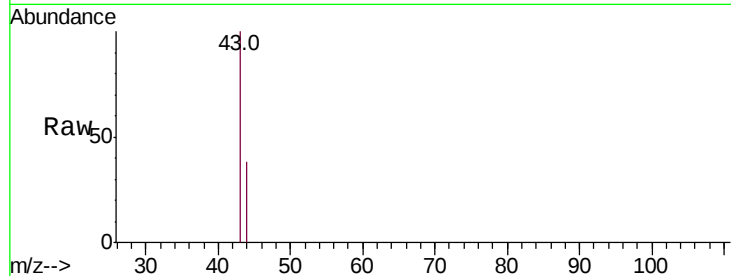
4S2-B-BOTTOM

Tot Ion: 43 Resp: 1433

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

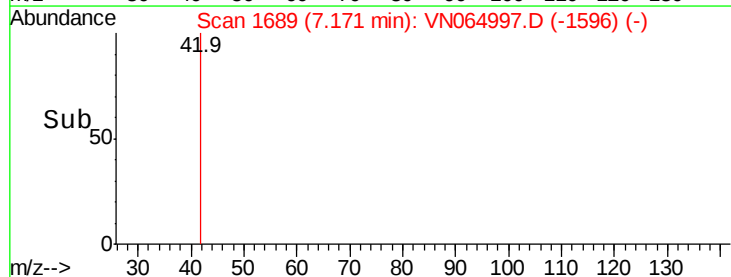
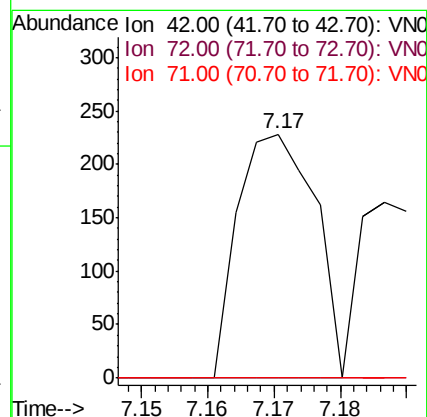
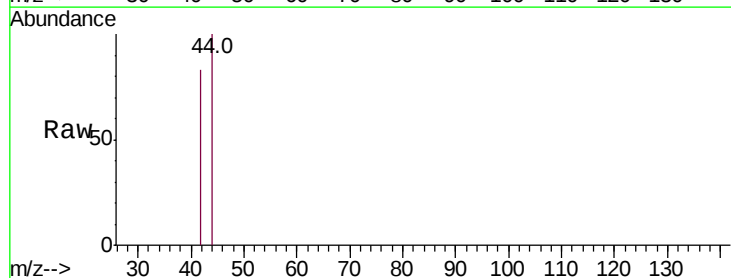
Tgt Ion: 42 Resp: 185

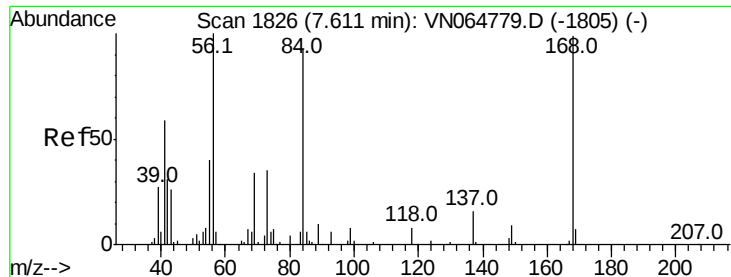
Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 33.6 50.4#

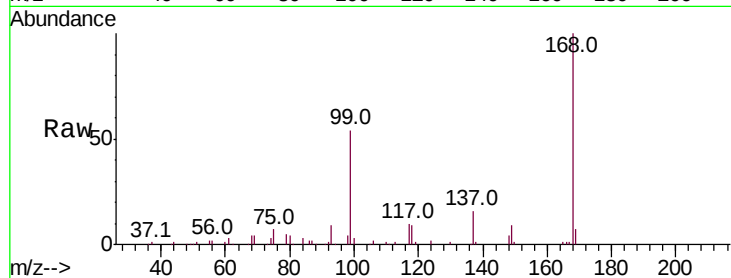




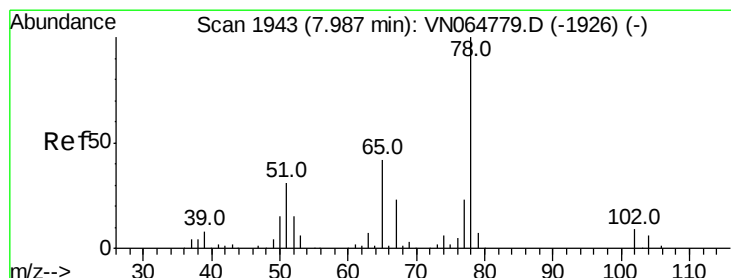
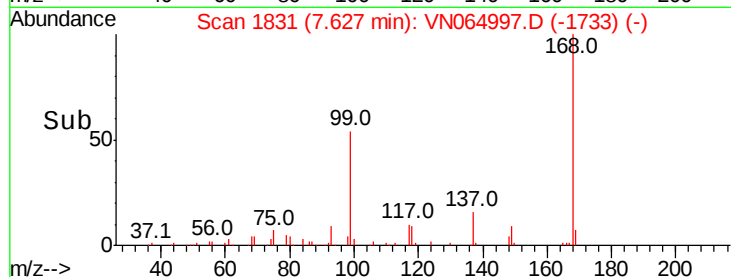
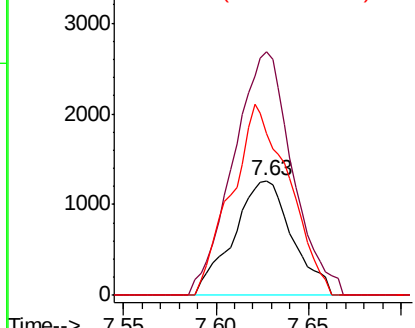
#31
Cyclohexane
Concen: 1.043 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

Instrument :
MSVOA_N
ClientSampled :
4S2-B-BOTTOM

Tot Ion: 56 Resp: 2790
Ion Ratio Lower Upper
56 100
69 212.4 27.5 41.3#
84 140.9 73.9 110.9#

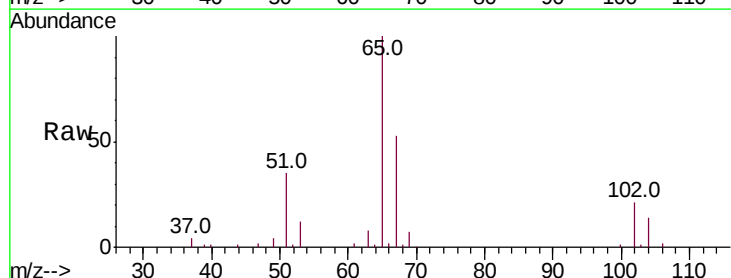


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

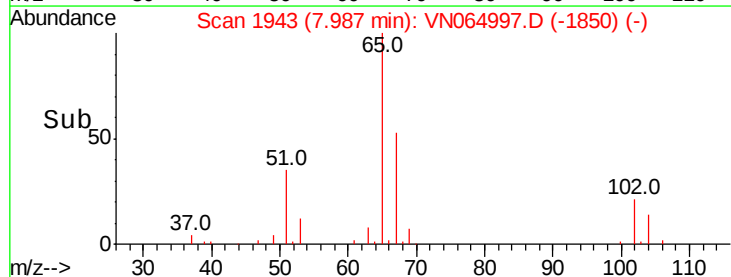
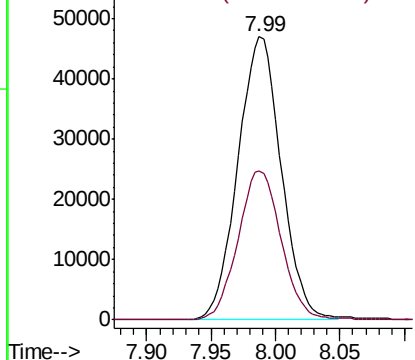


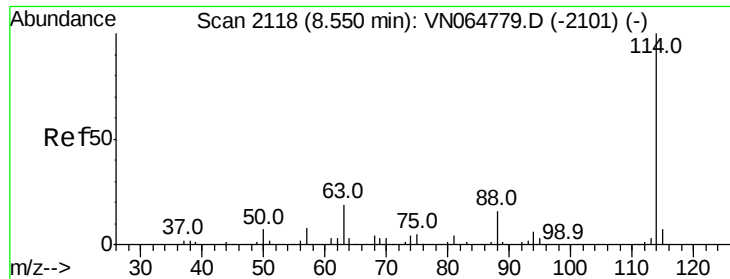
#33
1,2-Dichloroethane-d4
Concen: 57.140 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

Tgt Ion: 65 Resp: 109682
Ion Ratio Lower Upper
65 100
67 52.7 0.0 108.2



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

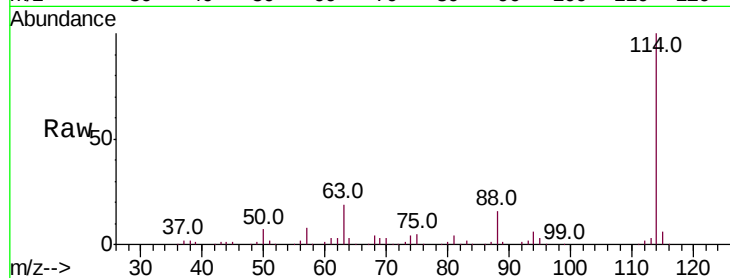




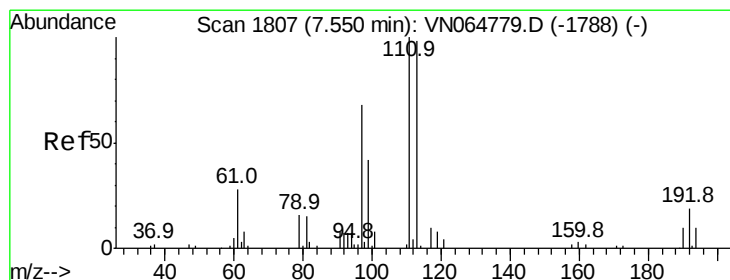
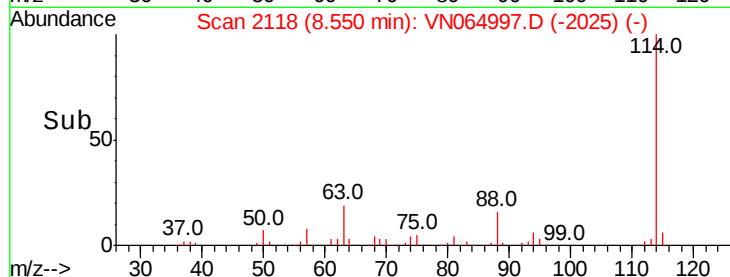
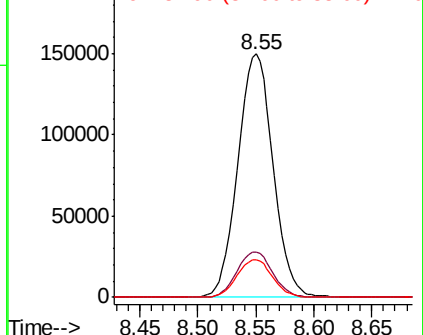
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064997.D
 Acq: 9 Dec 2020 3:27

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-B-BOTTOM

Tot Ion:114 Resp: 316748
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.6
 88 15.6 0.0 32.6

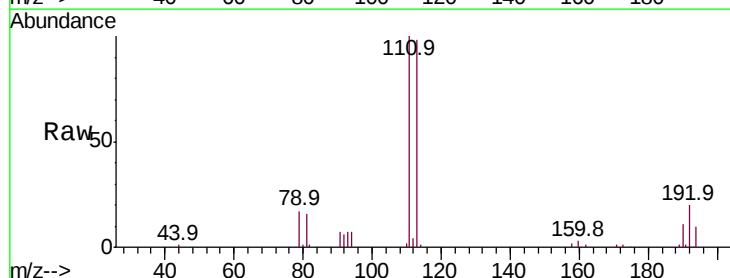


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

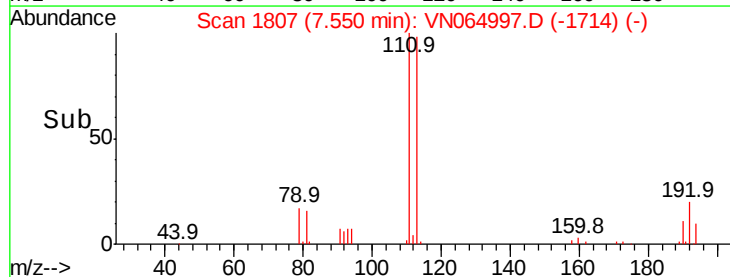
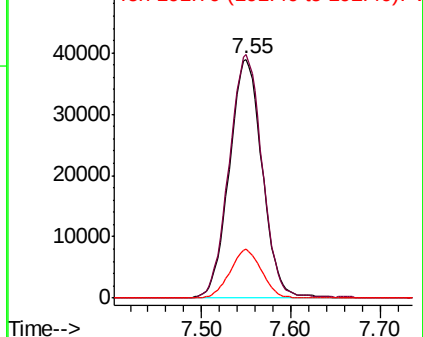


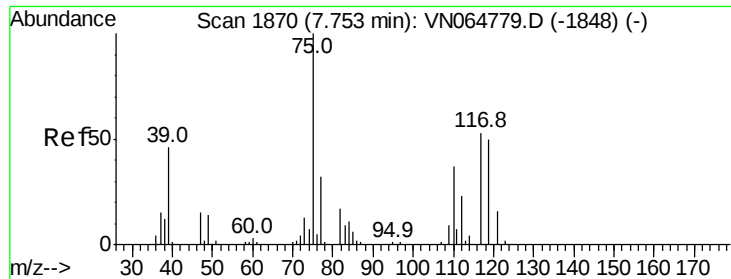
#35
 Dibromofluoromethane
 Concen: 52.444 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064997.D
 Acq: 9 Dec 2020 3:27

Tgt Ion:113 Resp: 99398
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.6 122.4
 192 19.5 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

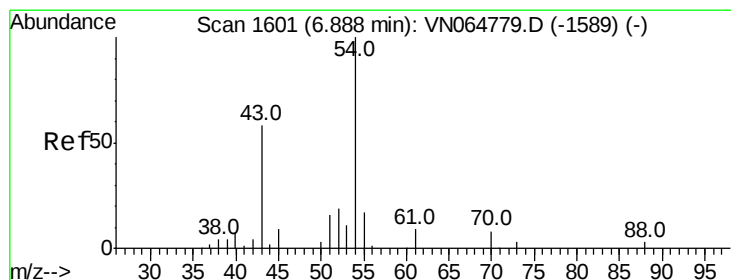
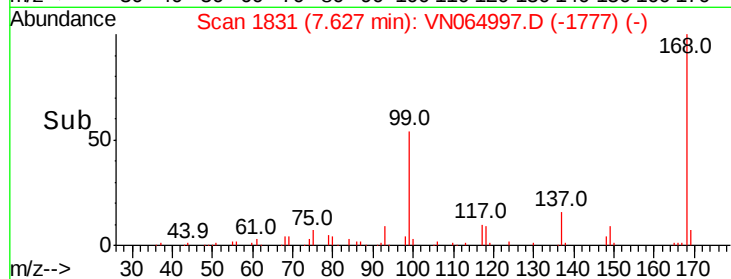
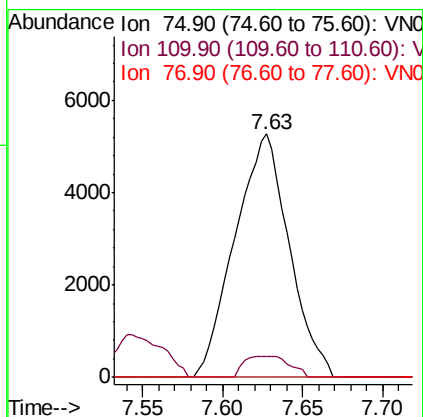
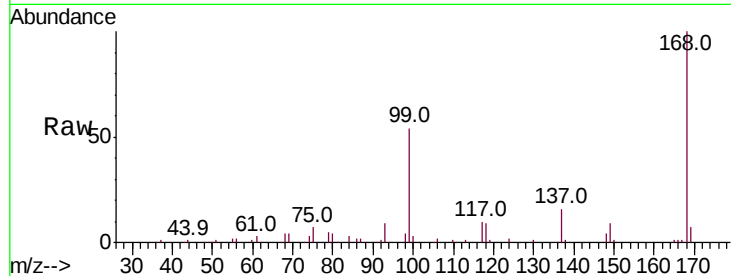




#36
 1,1-Dichloropropene
 Concen: 4.168 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064997.D
 Acq: 9 Dec 2020 3:27

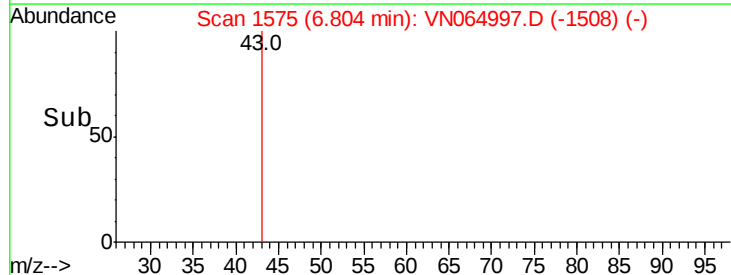
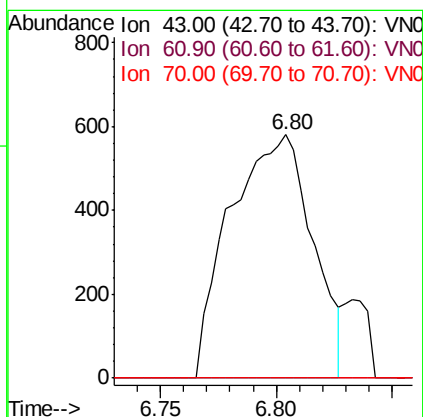
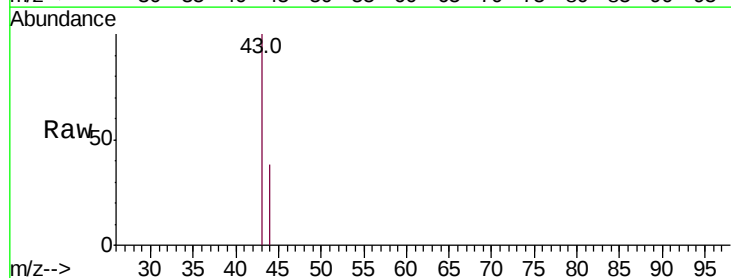
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-B-BOTTOM

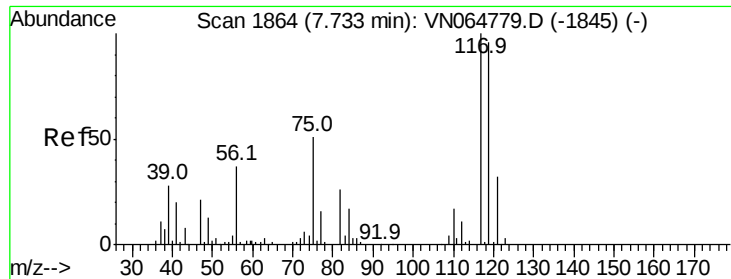
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.2	17.8	53.3#
77	0.0	25.0	37.4#



#37
 Ethyl Acetate
 Concen: 0.507 ug/l
 RT: 6.80 min Scan# 1575
 Delta R.T. -0.08 min
 Lab File: VN064997.D
 Acq: 9 Dec 2020 3:27

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: 5.103 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

4S2-B-BOTTOM

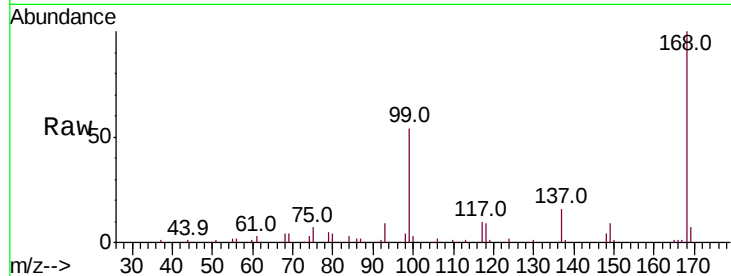
Tot Ion:117 Resp: 15588

Ion Ratio Lower Upper

117 100

119 6.6 76.7 115.1#

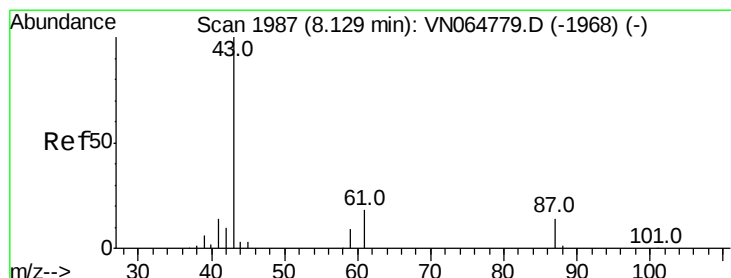
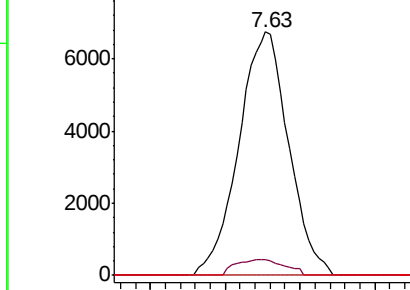
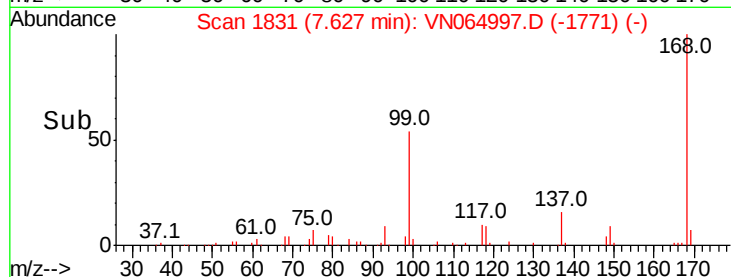
121 0.0 25.4 38.2#



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: 3.321 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

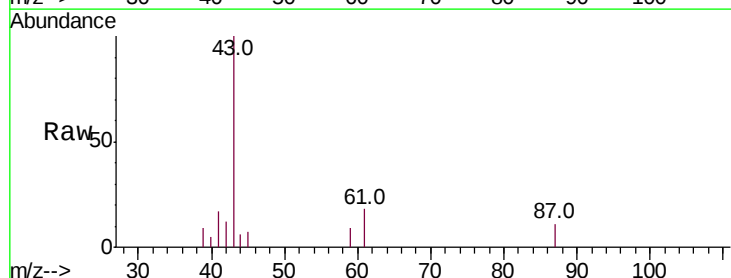
Tgt Ion: 43 Resp: 15112

Ion Ratio Lower Upper

43 100

61 16.8 17.2 25.8#

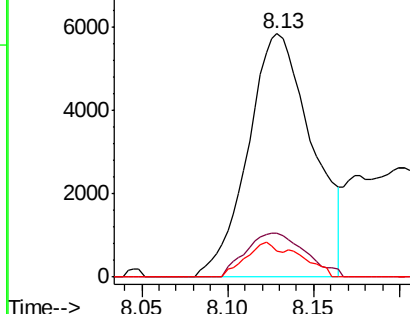
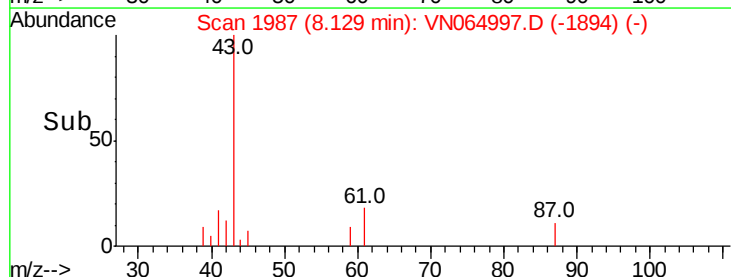
87 7.6 11.4 17.0#

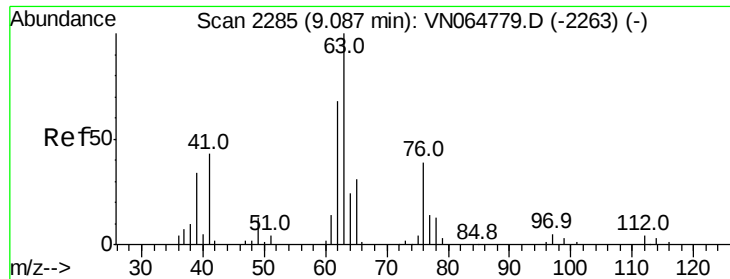


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

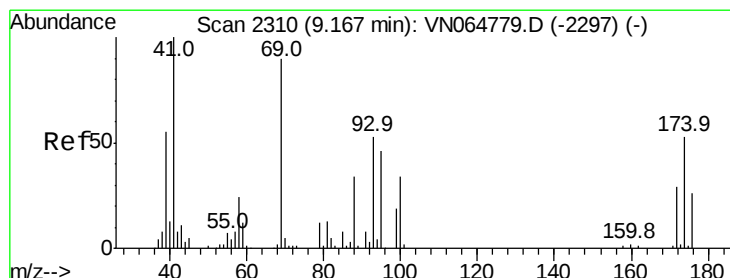
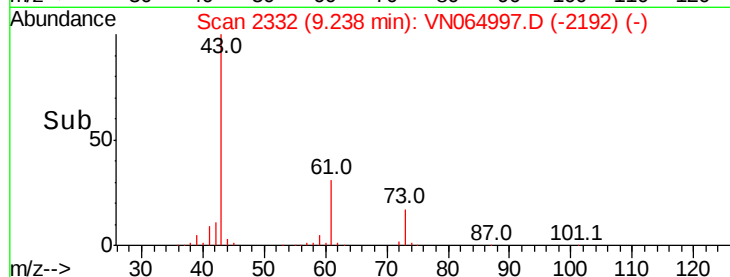
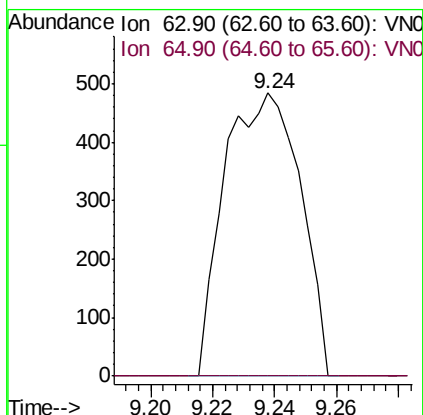
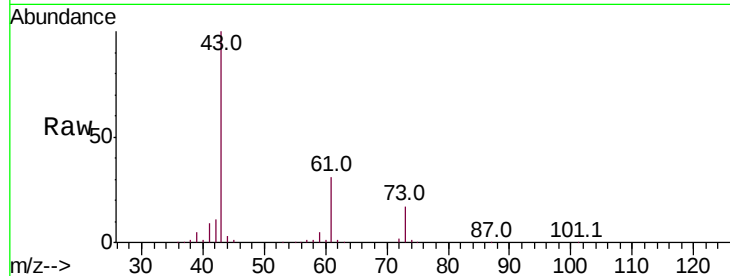




#45
 1,2-Dichloropropane
 Concen: 0.355 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN064997.D
 Acq: 9 Dec 2020 3:27

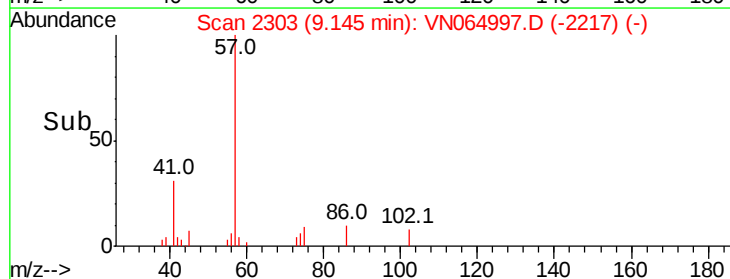
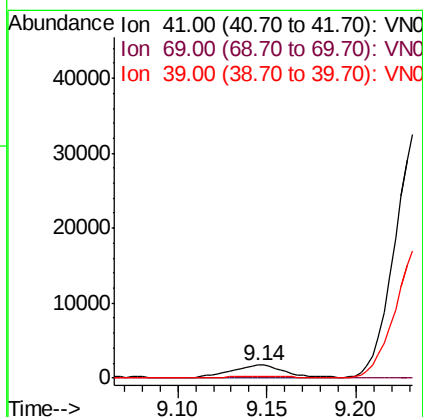
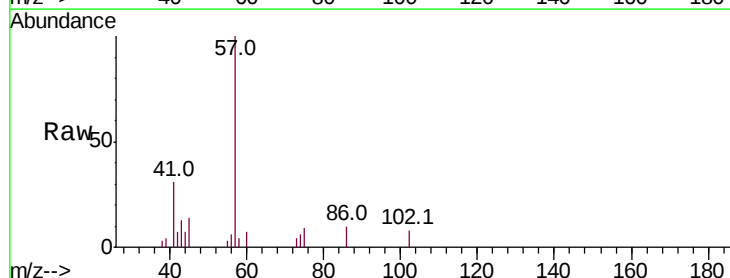
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-B-BOTTOM

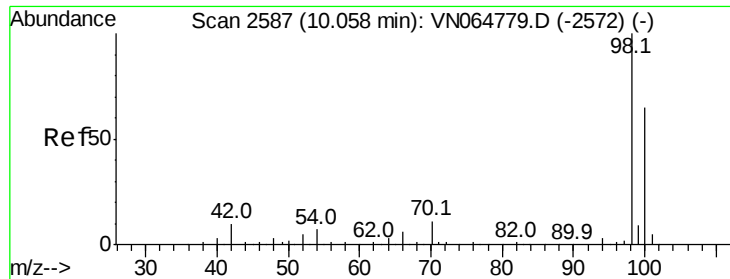
Tot Ion: 63 Resp: 826
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.713 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN064997.D
 Acq: 9 Dec 2020 3:27

Tgt Ion: 41 Resp: 3726
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 52.152 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

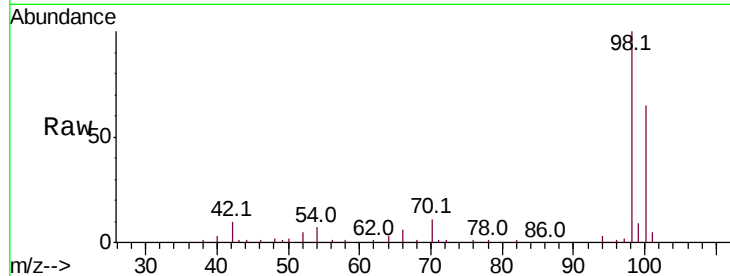
4S2-B-BOTTOM

Tot Ion: 98 Resp: 403871

Ion Ratio Lower Upper

98 100

100 64.6 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

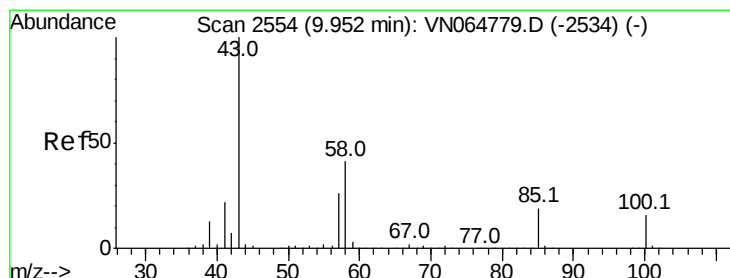
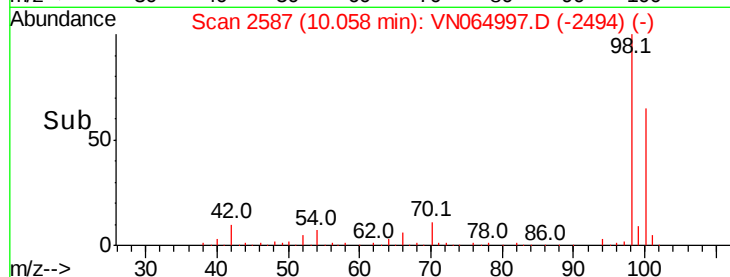
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.055 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064997.D

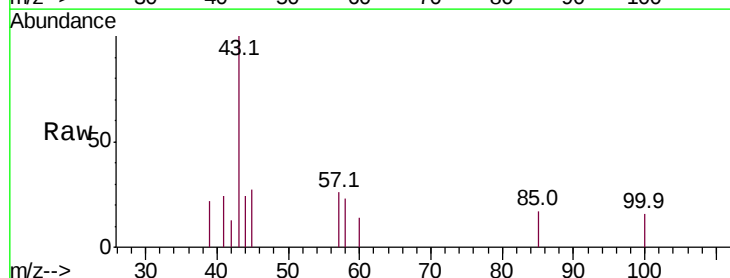
Acq: 9 Dec 2020 3:27

Tgt Ion: 43 Resp: 2882

Ion Ratio Lower Upper

43 100

58 19.5 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

3000

2000

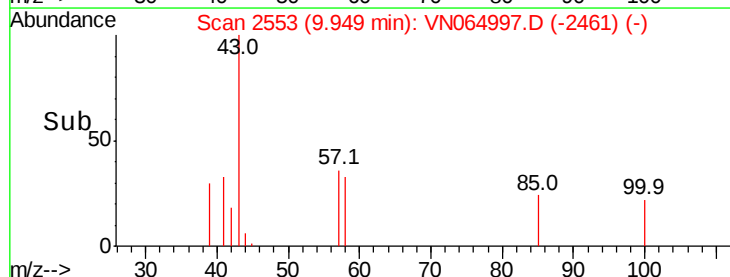
1000

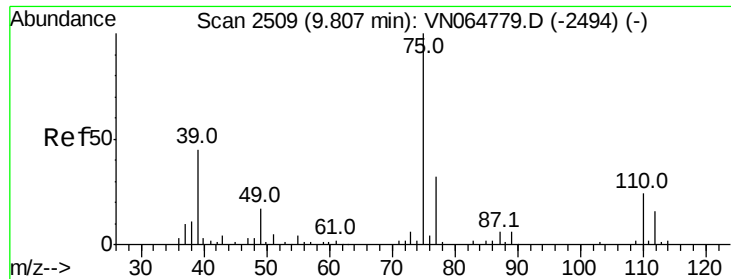
0

9.95

9.95

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.137 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

4S2-B-BOTTOM

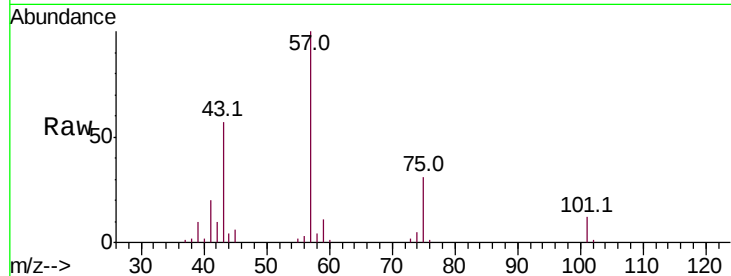
Tot Ion: 75 Resp: 22945

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

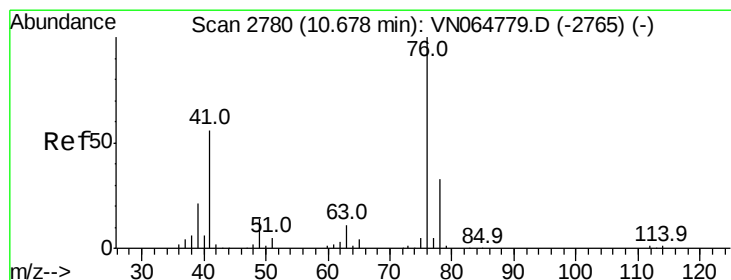
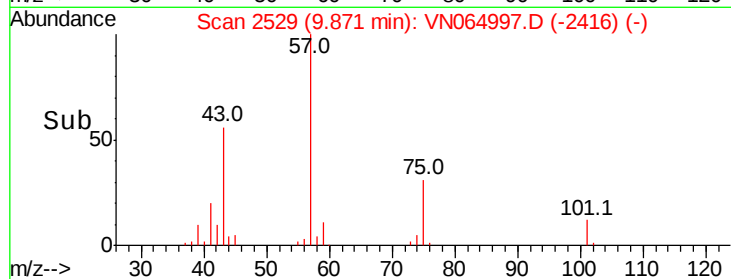
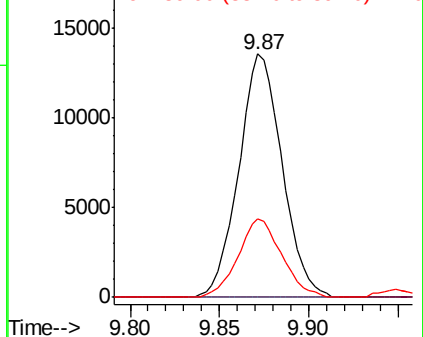
39 32.2 35.6 53.4#



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: 3.357 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064997.D

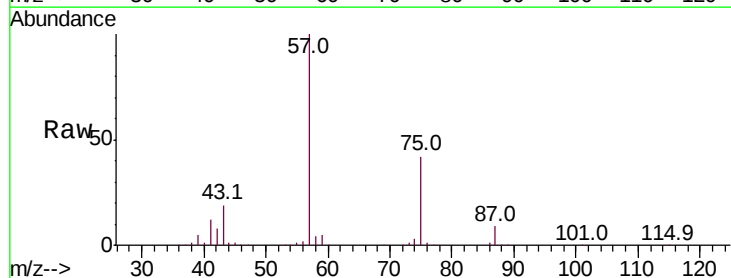
Acq: 9 Dec 2020 3:27

Tgt Ion: 76 Resp: 12617

Ion Ratio Lower Upper

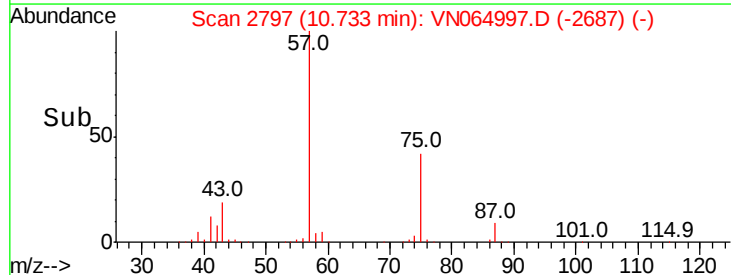
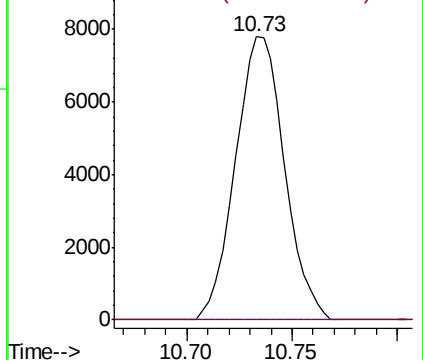
76 100

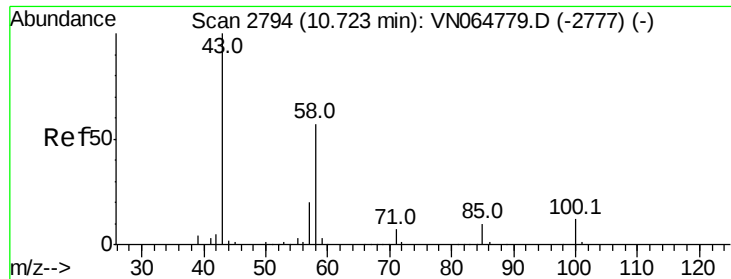
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

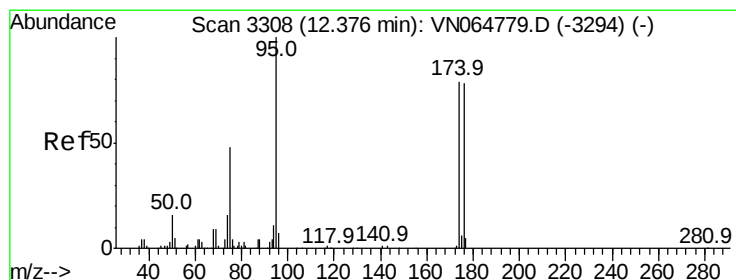
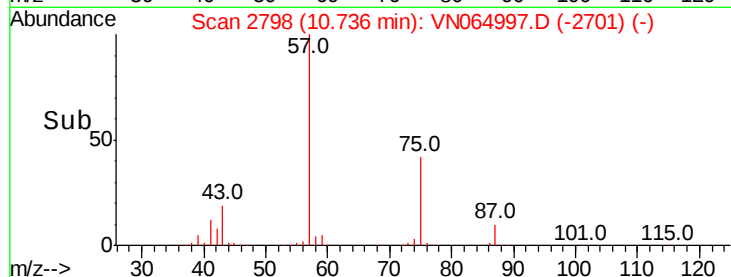
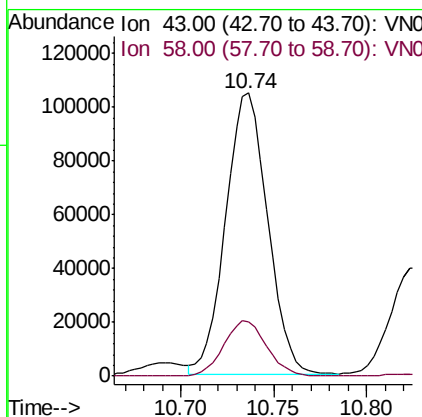
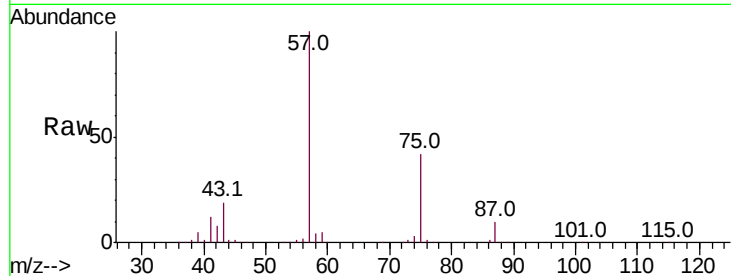




#59
2-Hexanone
Concen: 83.968 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

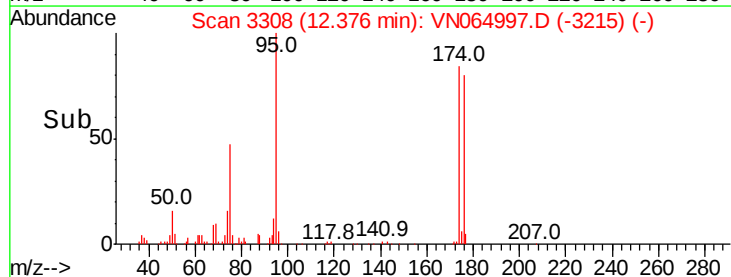
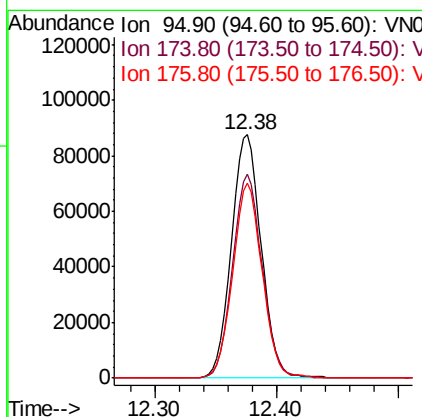
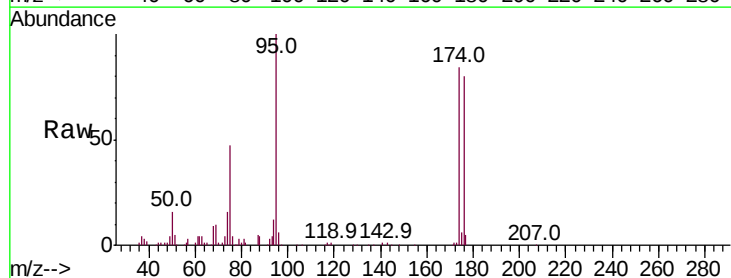
Instrument :
MSVOA_N
ClientSampleId :
4S2-B-BOTTOM

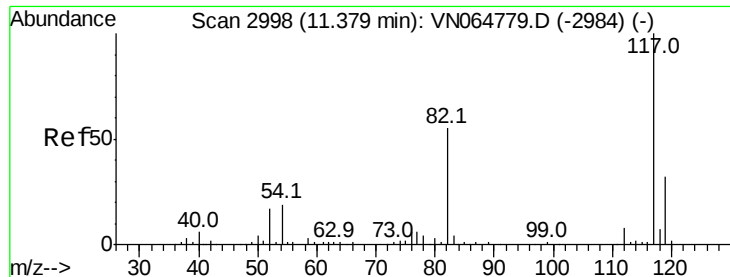
Tot Ion: 43 Resp: 165098
Ion Ratio Lower Upper
43 100
58 20.2 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 53.752 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

Tgt Ion: 95 Resp: 148973
Ion Ratio Lower Upper
95 100
174 83.4 0.0 160.4
176 78.9 0.0 158.4

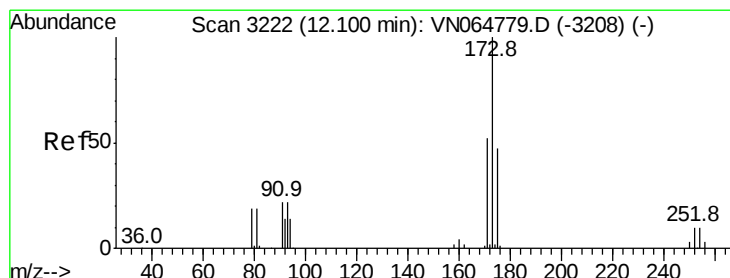
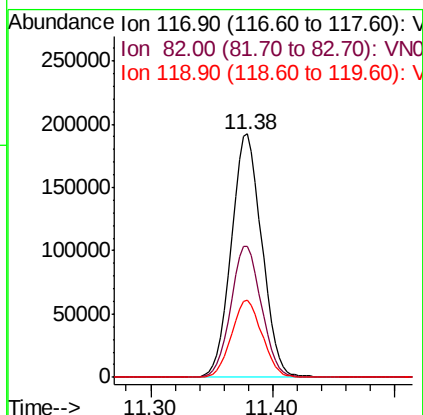
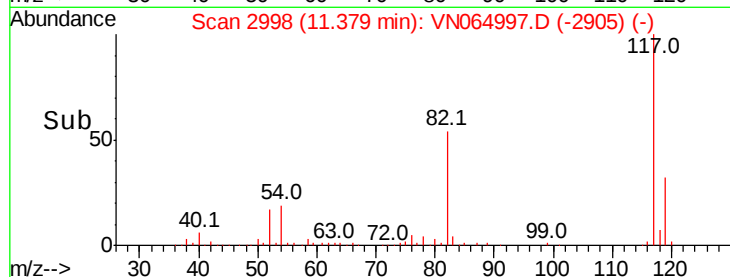
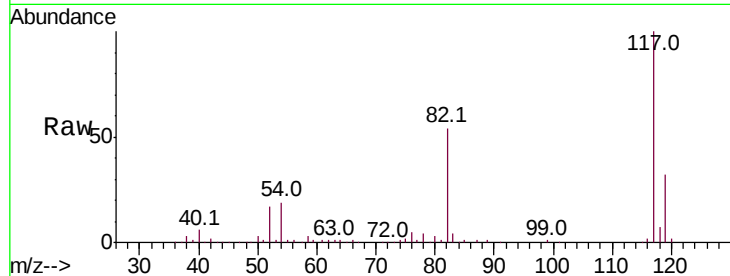




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

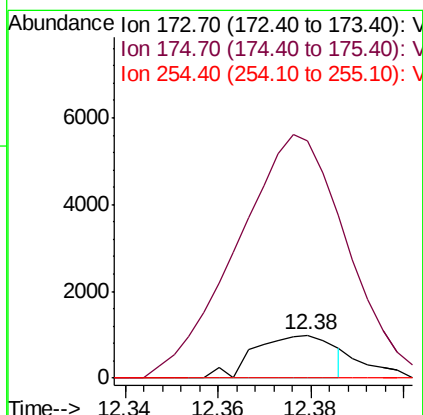
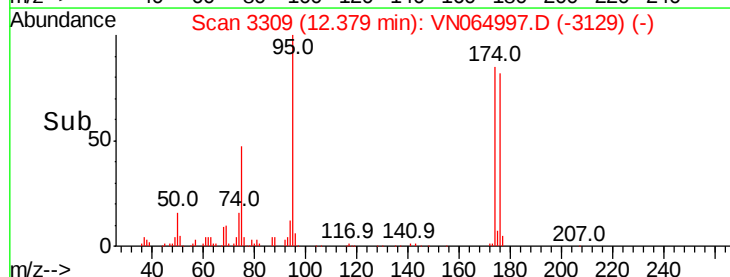
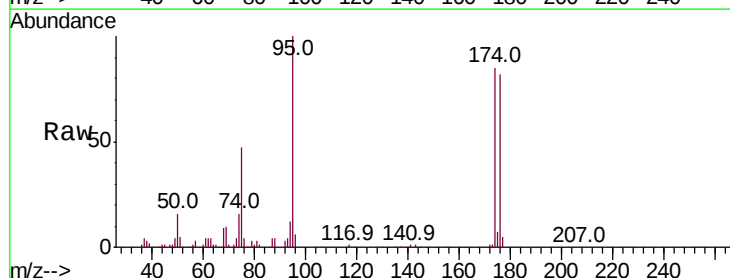
Instrument :
MSVOA_N
ClientSampled :
4S2-B-BOTTOM

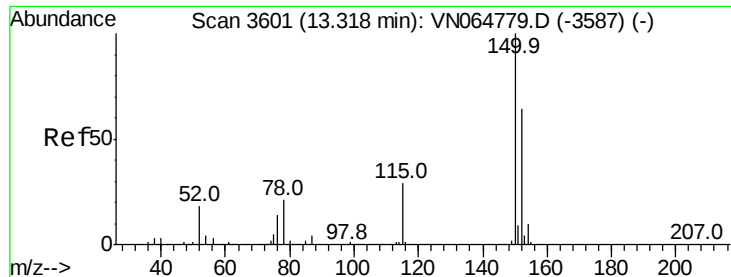
Tot Ion:117 Resp: 335338
Ion Ratio Lower Upper
117 100
82 53.8 44.2 66.2
119 31.7 25.8 38.6



#71
Bromoform
Concen: 0.554 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.28 min
Lab File: VN064997.D
Acq: 9 Dec 2020 3:27

Tgt Ion:173 Resp: 1172
Ion Ratio Lower Upper
173 100
175 679.2 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

4S2-B-BOTTOM

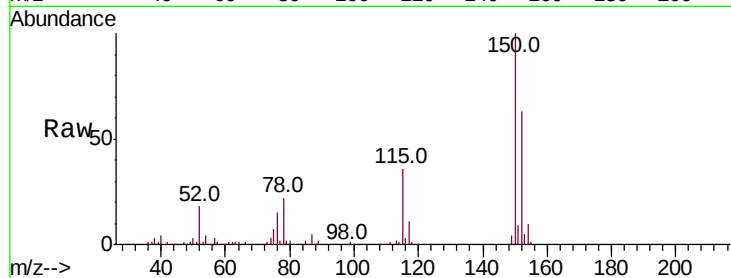
Tot Ion:152 Resp: 139101

Ion Ratio Lower Upper

152 100

115 57.9 29.7 89.1

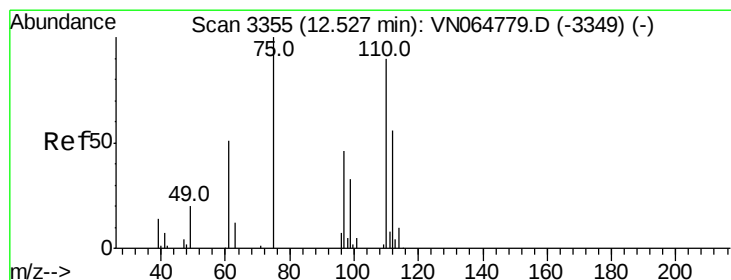
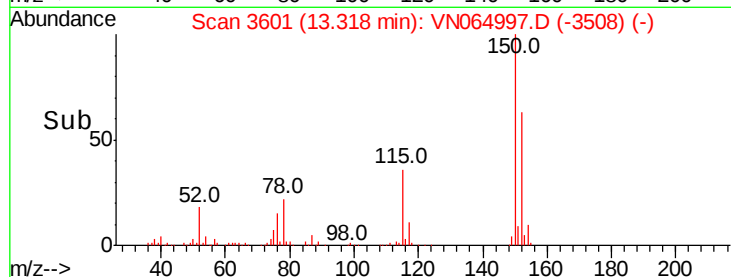
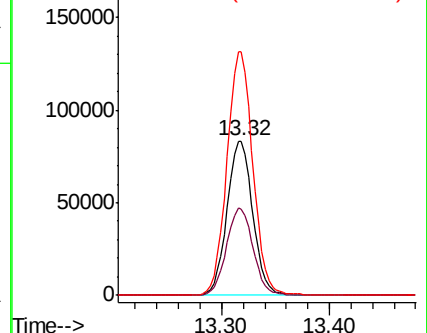
150 158.8 0.0 350.6



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: 23.531 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064997.D

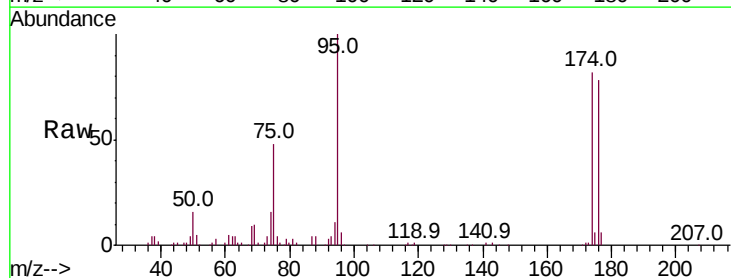
Acq: 9 Dec 2020 3:27

Tgt Ion: 75 Resp: 70490

Ion Ratio Lower Upper

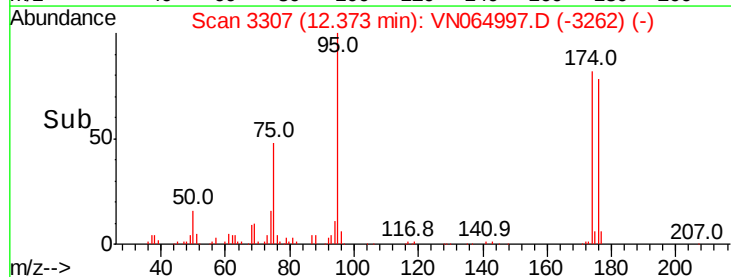
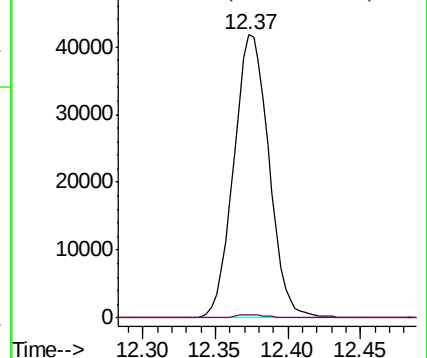
75 100

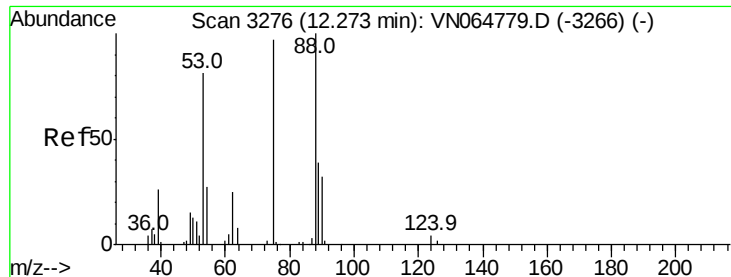
77 0.9 0.0 0.0#



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: 64.492 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064997.D

Acq: 9 Dec 2020 3:27

Instrument :

MSVOA_N

ClientSampleId :

4S2-B-BOTTOM

Tot Ion: 75 Resp: 70490

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

