

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064992.D
 Acq On : 9 Dec 2020 1:27
 Operator : JC/MD
 Sample : L4965-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CRT014

Quant Time: Dec 09 07:58:52 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	170056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	327821	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	344903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	144310	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	110580	55.93	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	111.86%		
35) Dibromofluoromethane	7.55	113	101592	51.79	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.58%		
50) Toluene-d8	10.06	98	413949	51.65	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.30%		
62) 4-Bromofluorobenzene	12.38	95	153534	53.53	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.06%		

Target Compounds

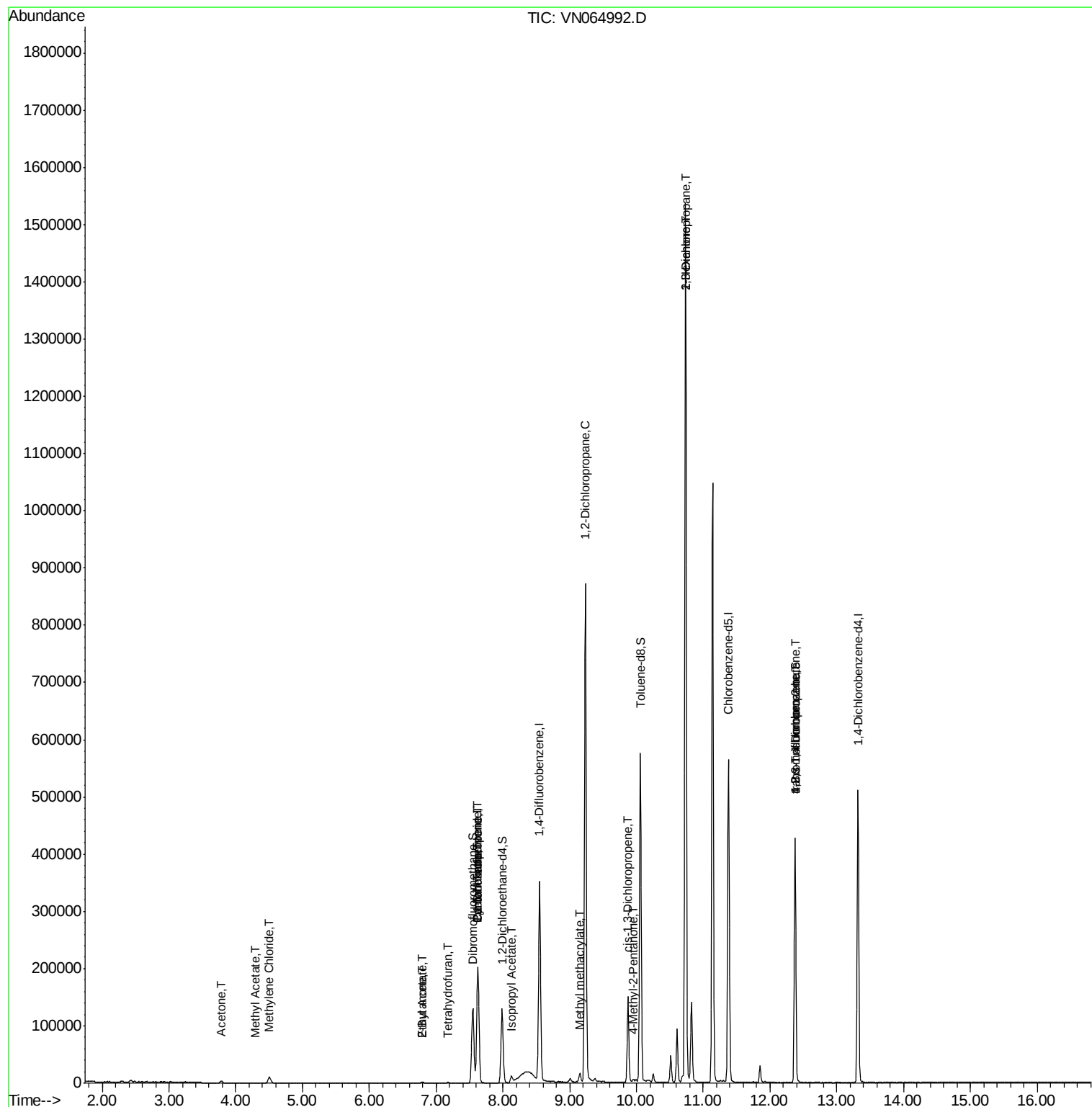
						Qvalue
16) Acetone	3.79	43	6173	9.498	ug/l	94
18) Methyl Acetate	4.29	43	886	0.453	ug/l #	50
20) Methylene Chloride	4.51	84	8759	4.301	ug/l	90
25) 2-Butanone	6.79	43	2496	2.369	ug/l #	88
29) Tetrahydrofuran	7.17	42	393	0.540	ug/l #	88
31) Cyclohexane	7.62	56	2870	1.042	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	11891	3.913	ug/l #	47
37) Ethyl Acetate	6.79	43	2496	0.853	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15776	4.990	ug/l #	17
43) Isopropyl Acetate	8.13	43	16695	3.545	ug/l #	87
45) 1,2-Dichloropropane	9.23	63	1044	0.433	ug/l #	43
48) Methyl methacrylate	9.14	41	3779	1.679	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3379	1.195	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	27513	7.110	ug/l #	62
57) 1,3-Dichloropropane	10.73	76	16241	4.175	ug/l #	42
59) 2-Hexanone	10.74	43	207365	101.902	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	74272	23.898	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	74272	65.500	ug/l #	15

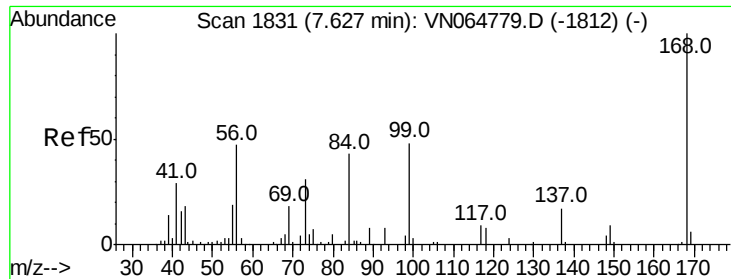
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

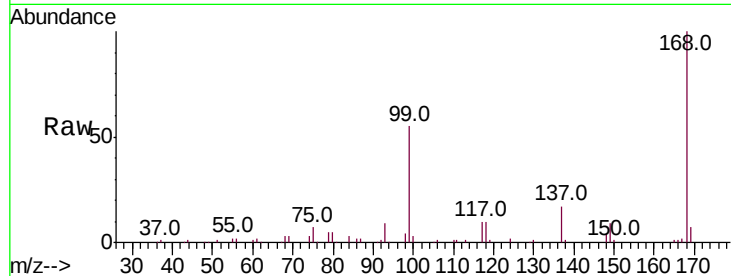
CRT014

Tot Ion:168 Resp: 170056

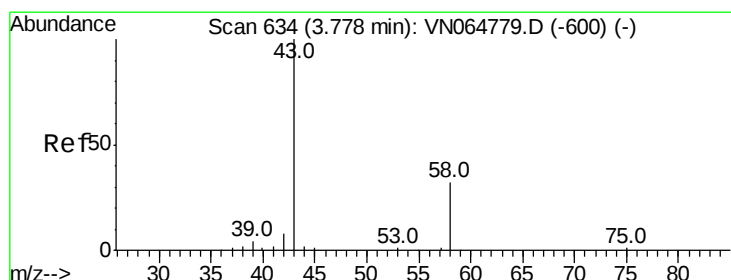
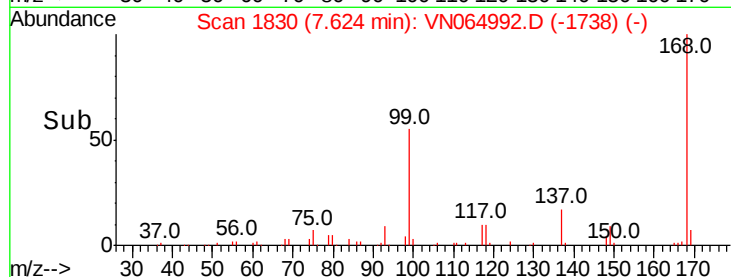
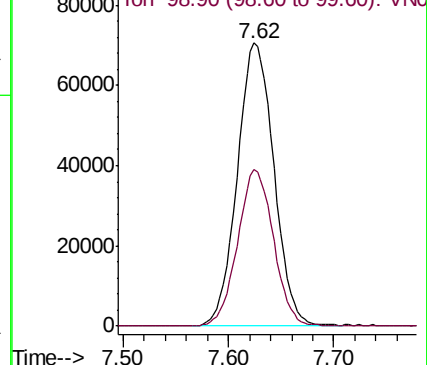
Ion Ratio Lower Upper

168 100

99 55.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064992.D (-1738) (-)



#16

Acetone

Concen: 9.498 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064992.D

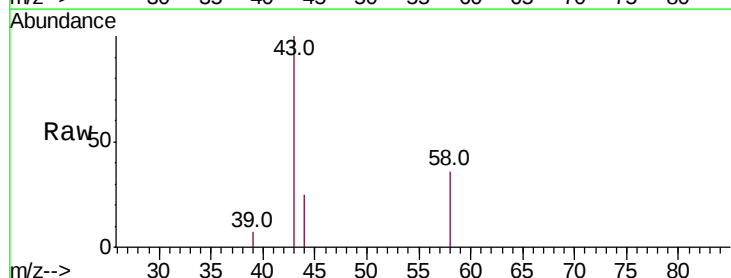
Acq: 9 Dec 2020 1:27

Tgt Ion: 43 Resp: 6173

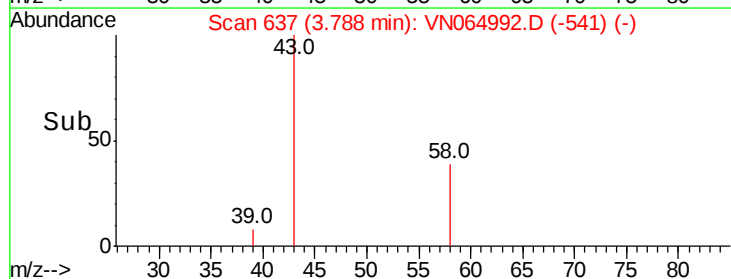
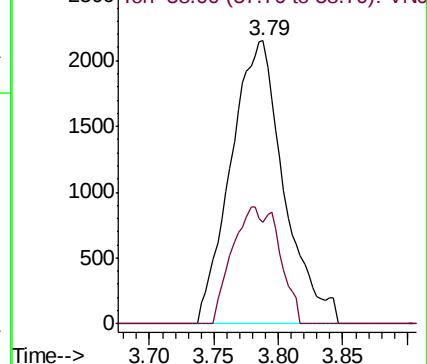
Ion Ratio Lower Upper

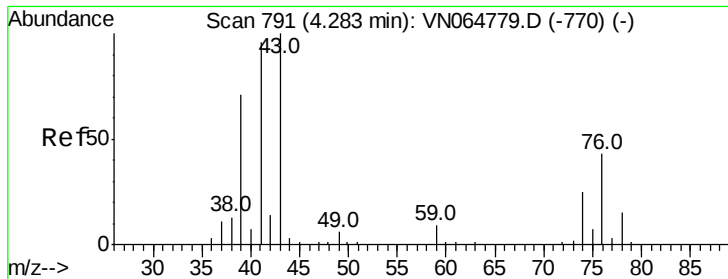
43 100

58 35.7 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064992.D (-541) (-)

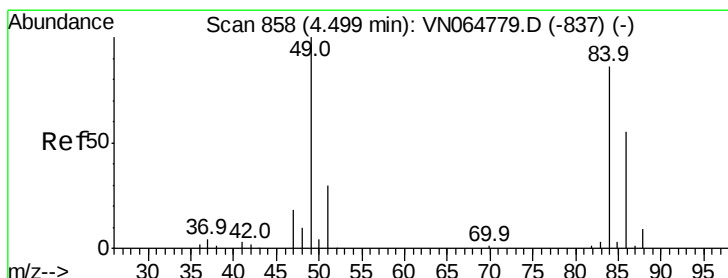
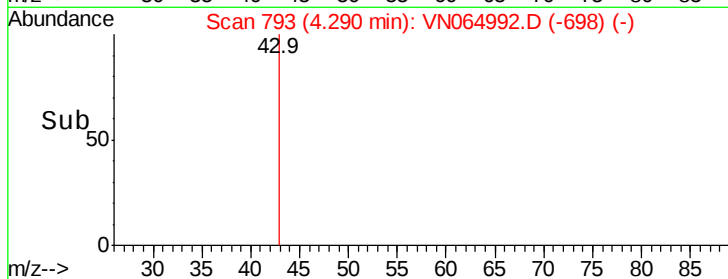
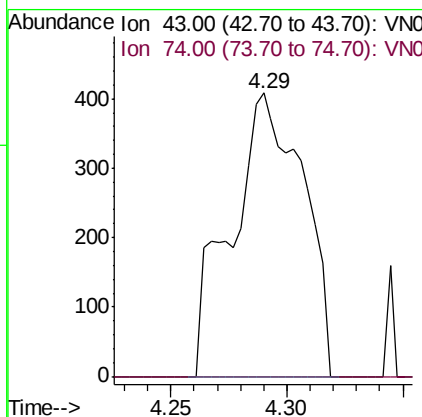
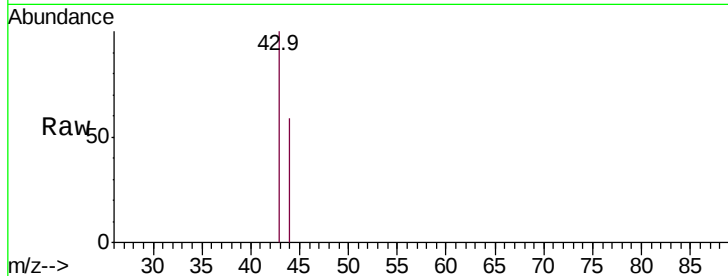




#18
Methyl Acetate
Concen: 0.453 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

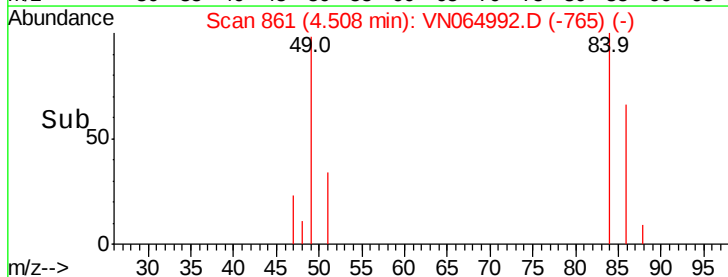
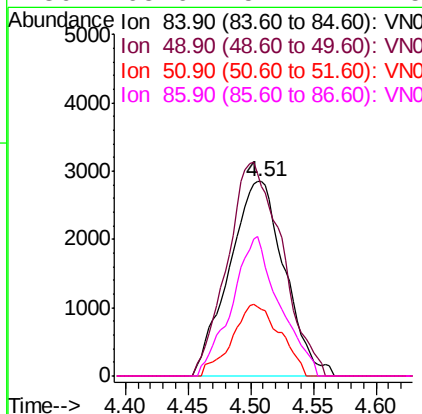
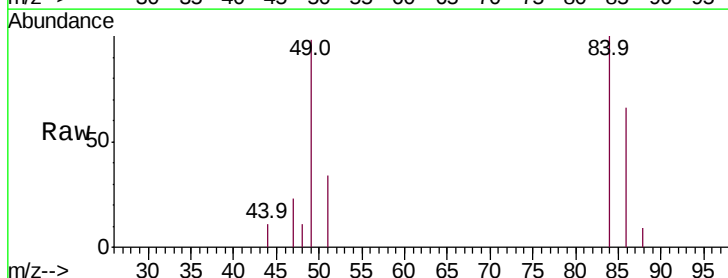
Instrument :
MSVOA_N
ClientSampled :
CRT014

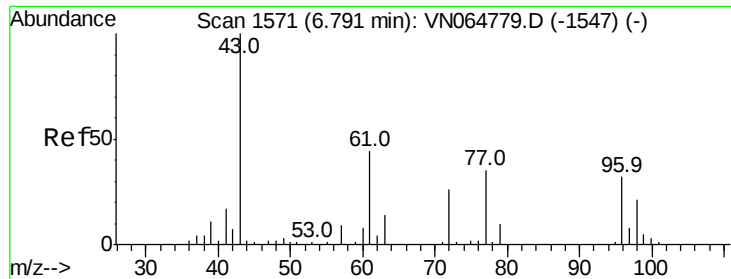
Tot Ion: 43 Resp: 886
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 4.301 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

Tgt Ion: 84 Resp: 8759
Ion Ratio Lower Upper
84 100
49 97.9 93.4 140.0
51 34.2 28.2 42.4
86 65.6 51.7 77.5

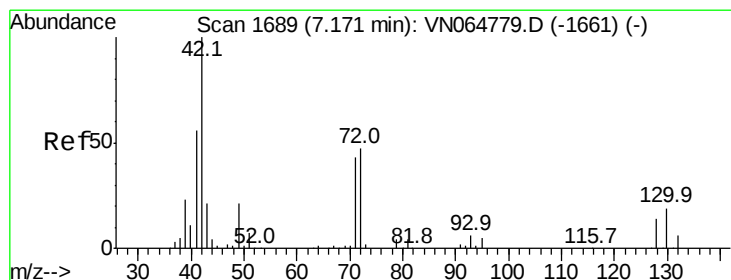
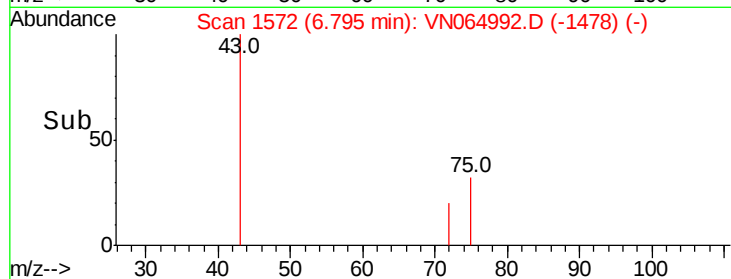
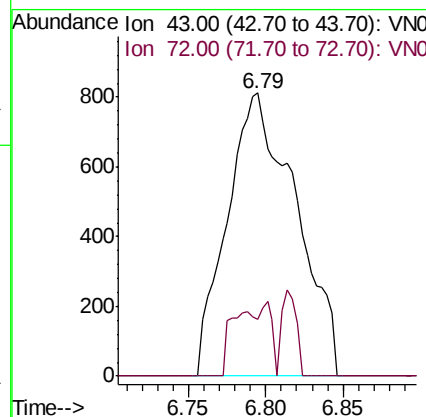
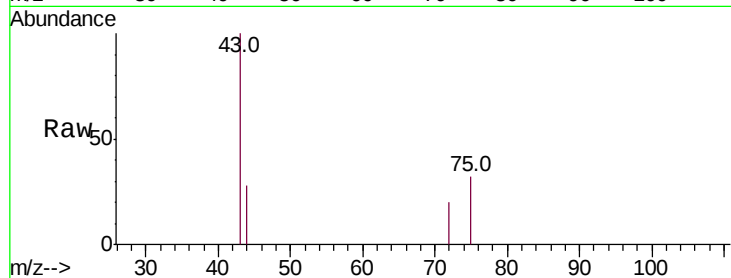




#25
2-Butanone
Concen: 2.369 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

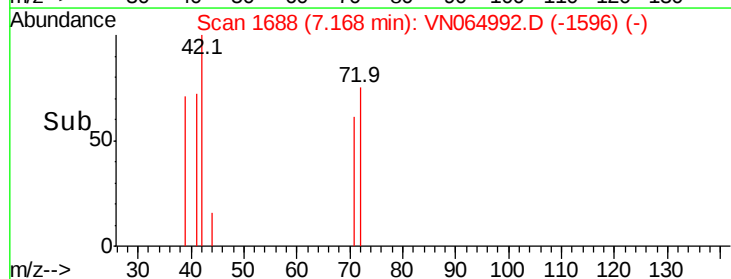
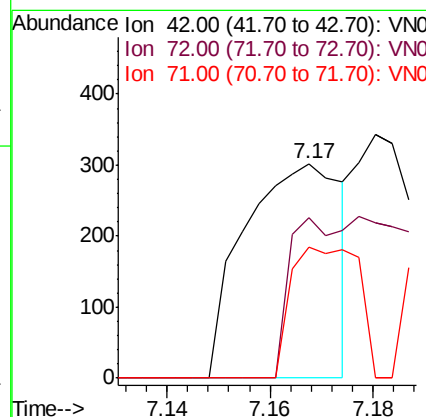
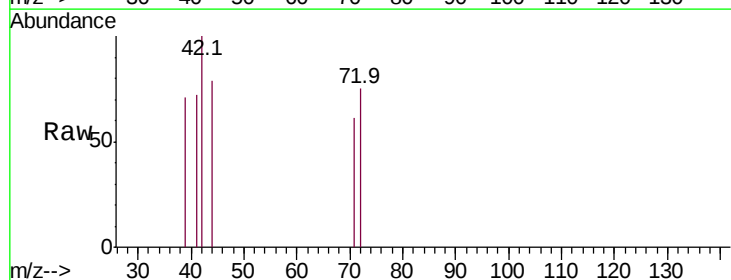
Instrument :
MSVOA_N
ClientSampled :
CRT014

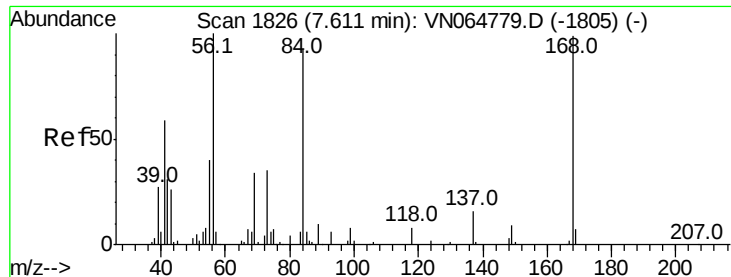
Tot Ion: 43 Resp: 2496
Ion Ratio Lower Upper
43 100
72 20.2 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.540 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

Tgt Ion: 42 Resp: 393
Ion Ratio Lower Upper
42 100
72 31.0 36.6 54.8#
71 42.5 33.6 50.4

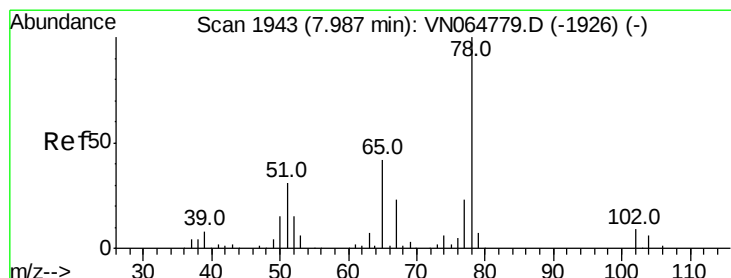
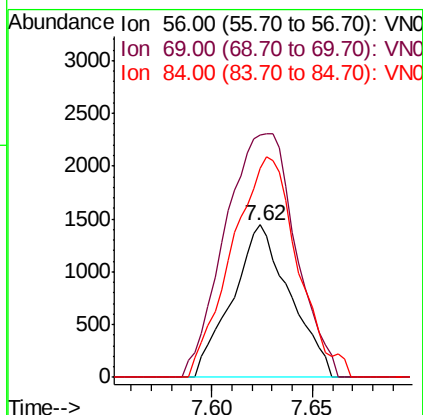
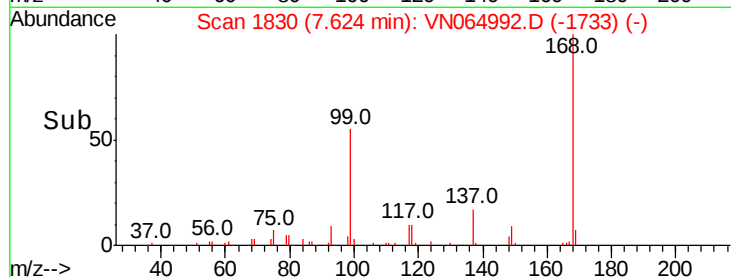
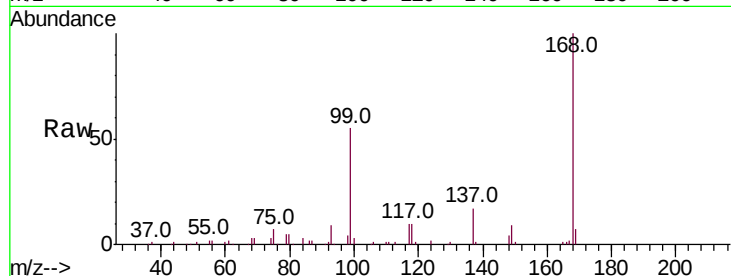




#31
Cyclohexane
Concen: 1.042 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

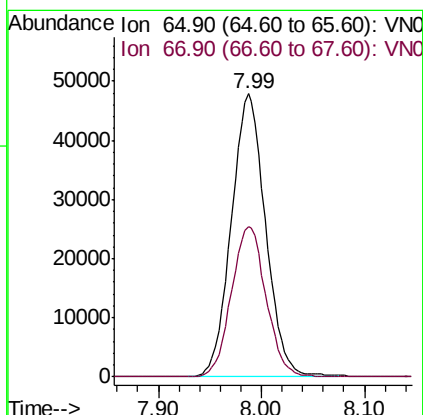
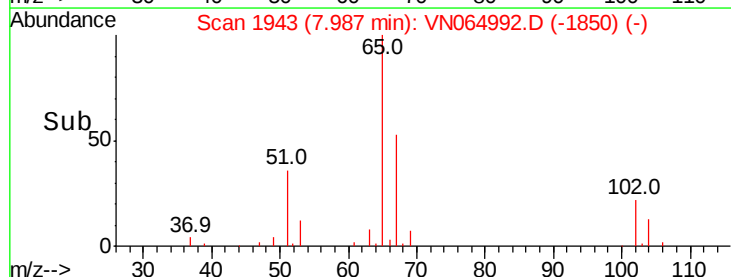
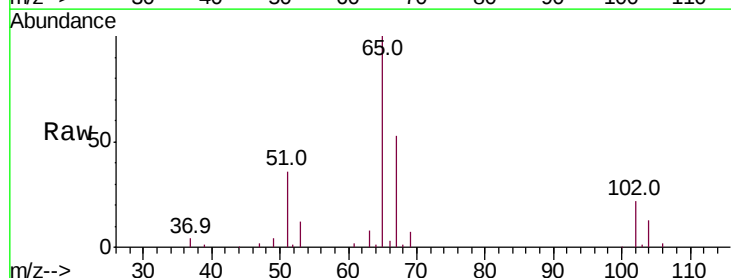
Instrument :
MSVOA_N
ClientSampled :
CRT014

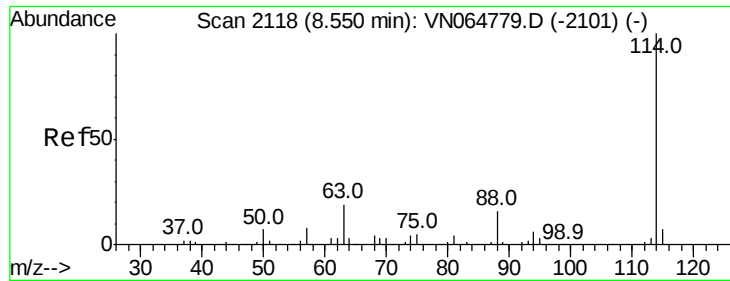
Tot Ion: 56 Resp: 2870
Ion Ratio Lower Upper
56 100
69 158.8 27.5 41.3#
84 137.6 73.9 110.9#



#33
1,2-Dichloroethane-d4
Concen: 55.933 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

Tgt Ion: 65 Resp: 110580
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.2

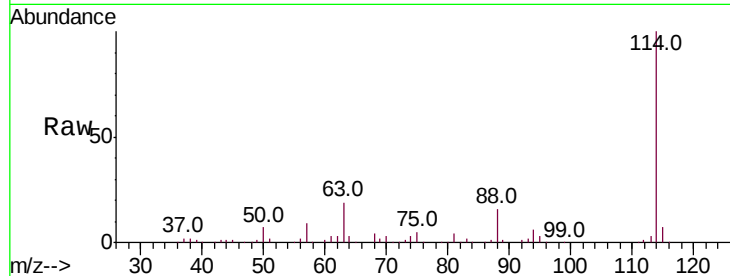




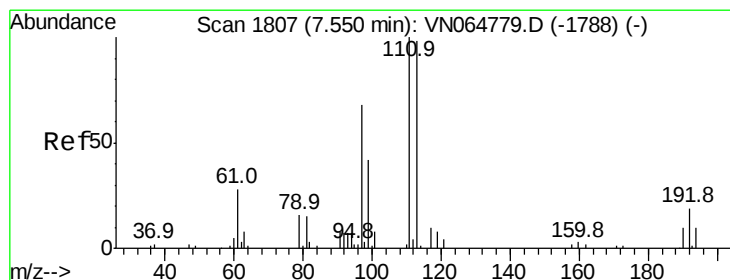
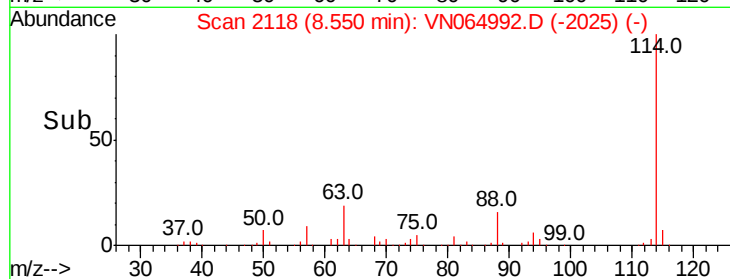
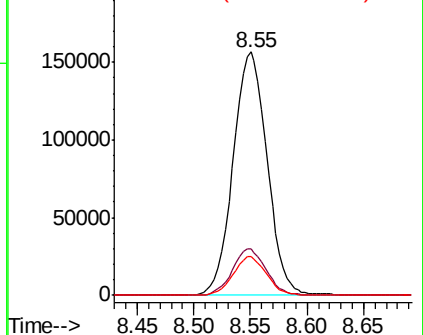
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

Instrument :
MSVOA_N
ClientSampleId :
CRT014

Tot Ion:114 Resp: 327821
Ion Ratio Lower Upper
114 100
63 19.0 0.0 38.6
88 15.9 0.0 32.6

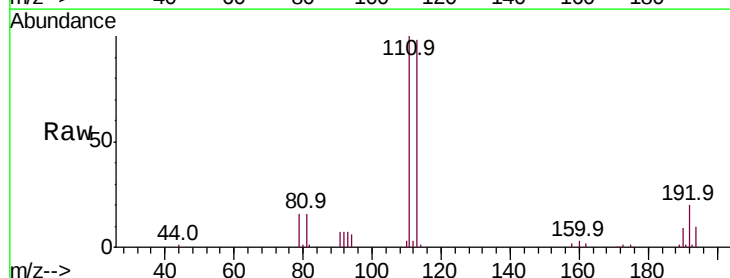


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

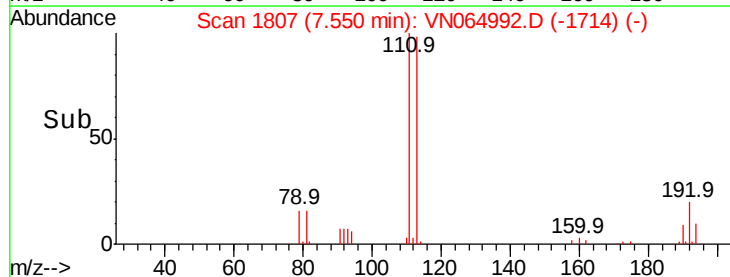
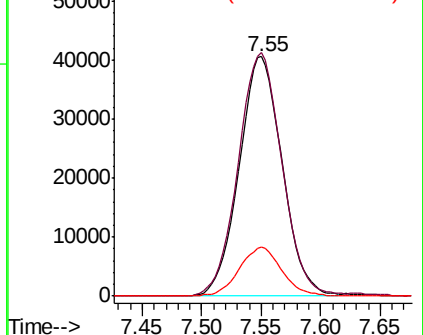


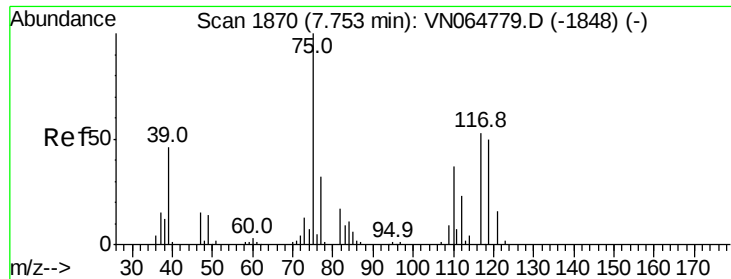
#35
Dibromofluoromethane
Concen: 51.791 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064992.D
Acq: 9 Dec 2020 1:27

Tgt Ion:113 Resp: 101592
Ion Ratio Lower Upper
113 100
111 103.3 81.6 122.4
192 20.0 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

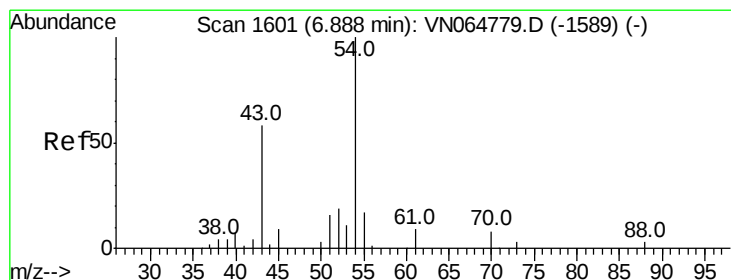
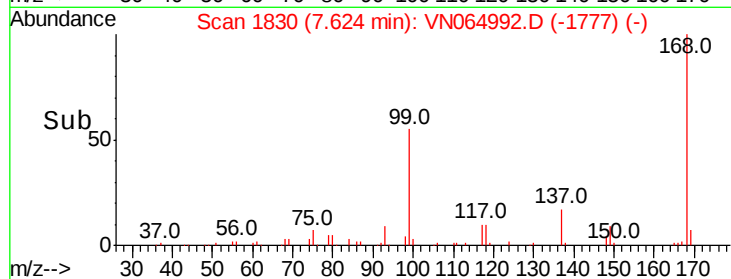
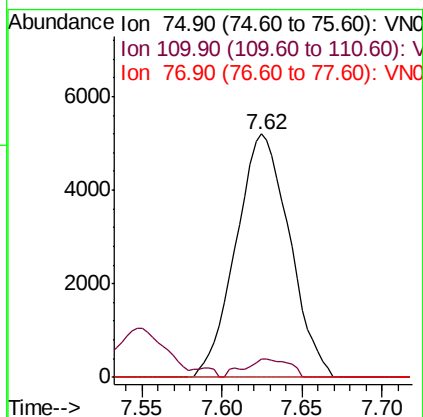
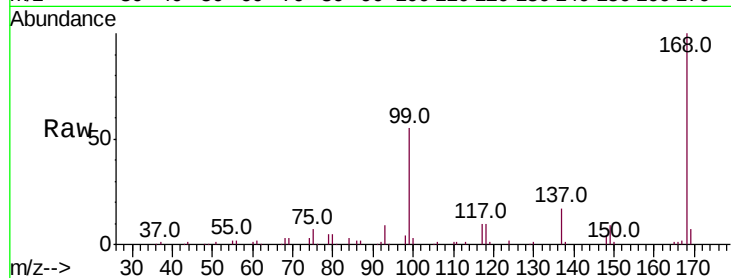




#36
 1,1-Dichloropropene
 Concen: 3.913 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064992.D
 Acq: 9 Dec 2020 1:27

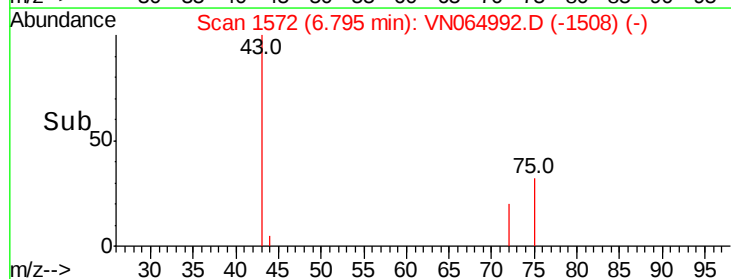
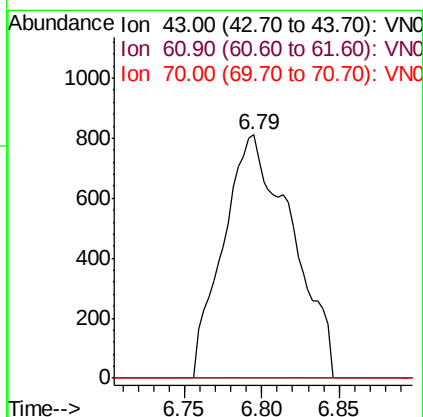
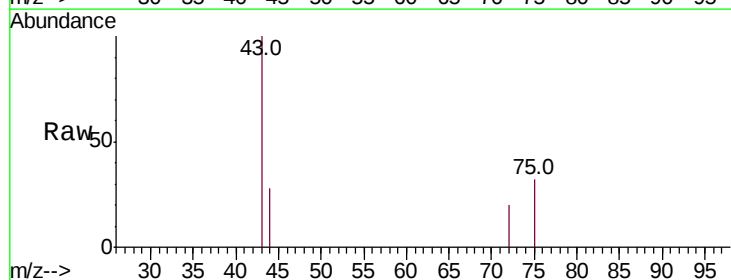
Instrument :
 MSVOA_N
 ClientSampled :
 CRT014

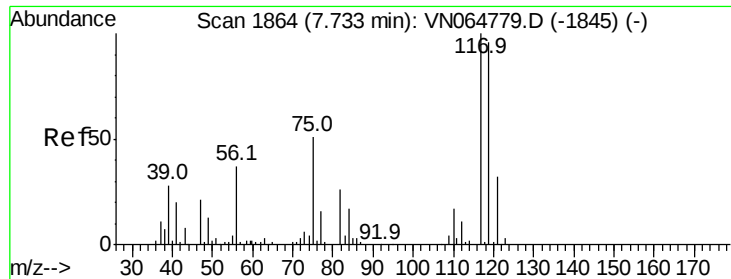
Tot Ion: 75 Resp: 11891
 Ion Ratio Lower Upper
 75 100
 110 6.3 17.8 53.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.853 ug/l
 RT: 6.79 min Scan# 1572
 Delta R.T. -0.09 min
 Lab File: VN064992.D
 Acq: 9 Dec 2020 1:27

Tgt Ion: 43 Resp: 2496
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 4.990 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

CRT014

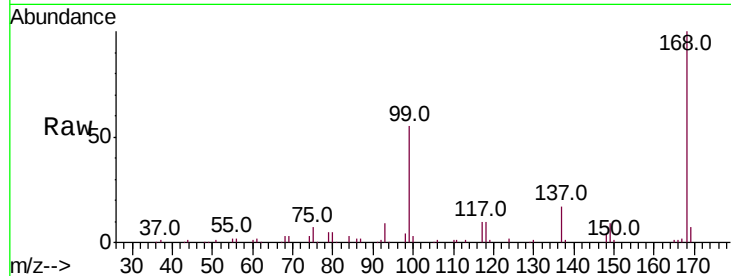
Tot Ion:117 Resp: 15776

Ion Ratio Lower Upper

117 100

119 6.6 76.7 115.1#

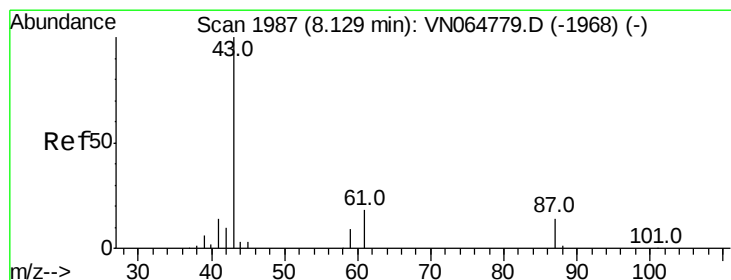
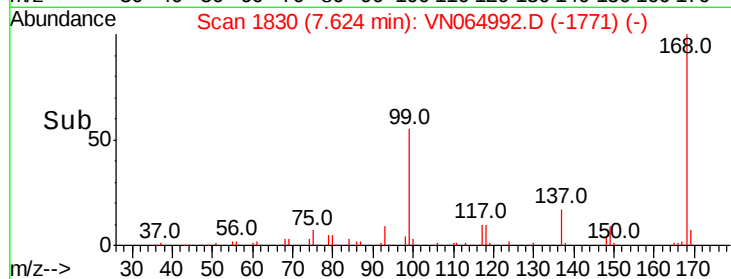
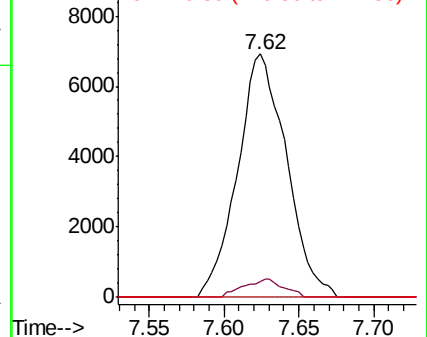
121 0.0 25.4 38.2#



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: 3.545 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

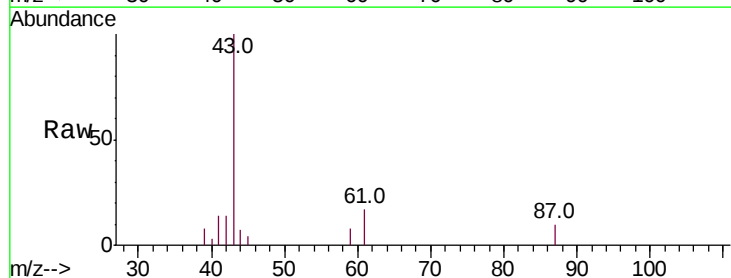
Tgt Ion: 43 Resp: 16695

Ion Ratio Lower Upper

43 100

61 17.8 17.2 25.8

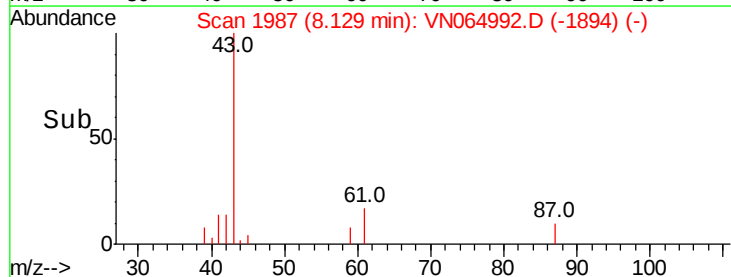
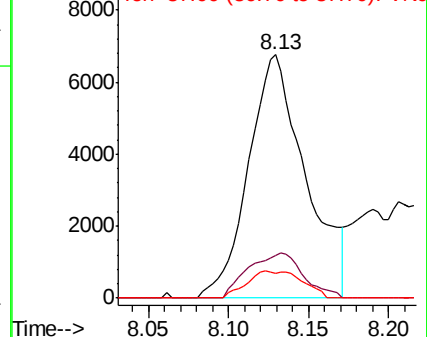
87 5.7 11.4 17.0#

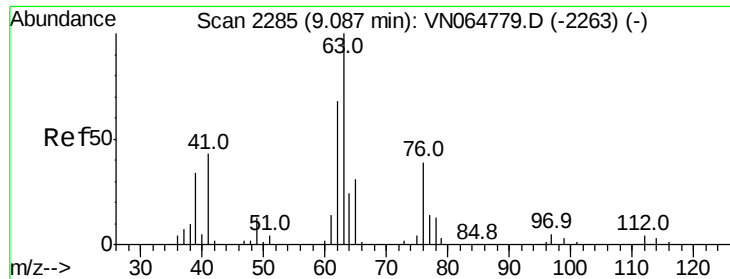


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.433 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

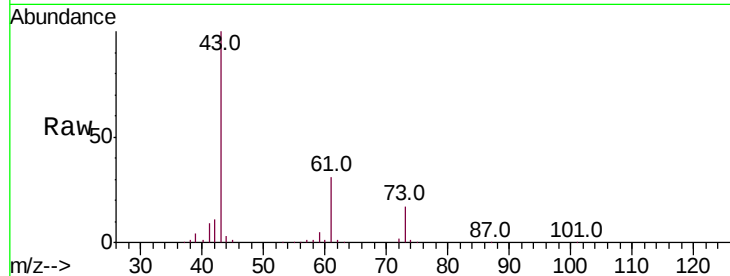
CRT014

Tot Ion: 63 Resp: 1044

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

9.23

600

400

200

0

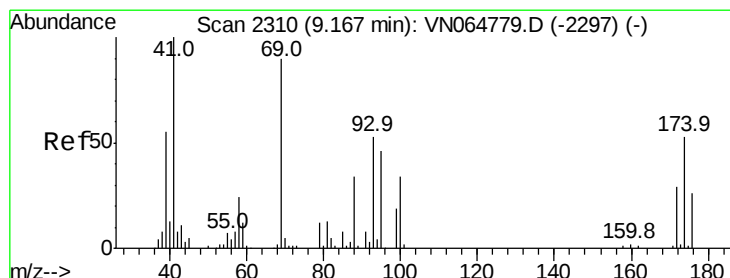
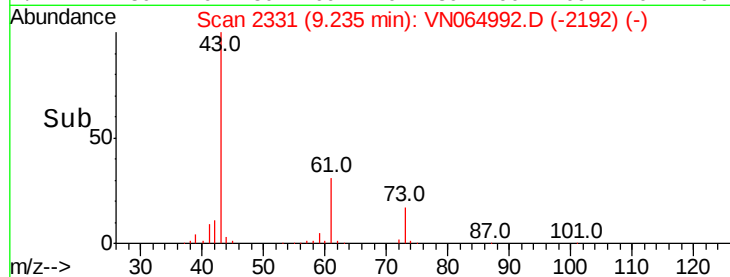
Time-->

9.20

9.22

9.24

9.26



#48

Methyl methacrylate

Concen: 1.679 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

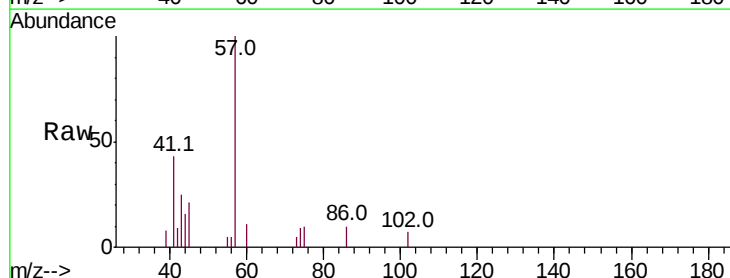
Tgt Ion: 41 Resp: 3779

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

30000

25000

20000

15000

10000

5000

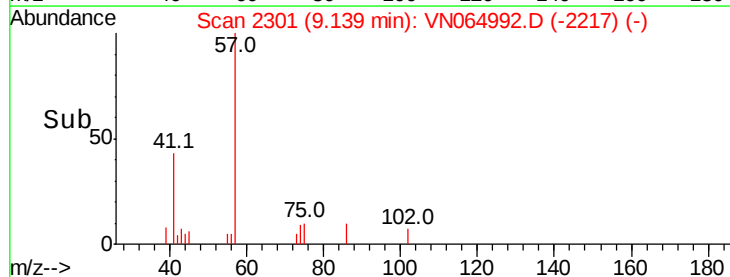
0

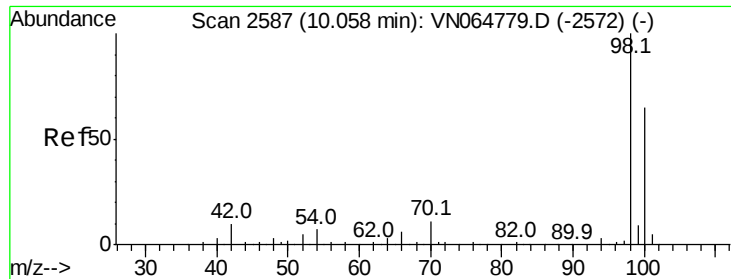
Time-->

9.10

9.15

9.20





#50

Toluene-d8

Concen: 51.648 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampled :

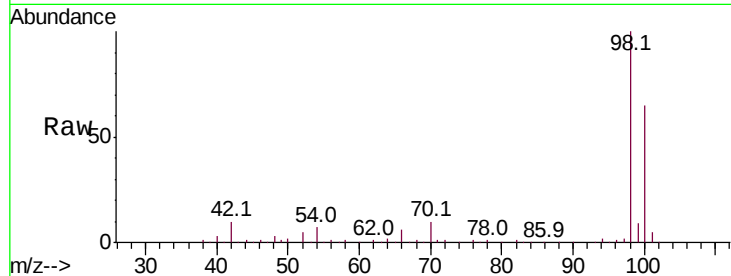
CRT014

Tot Ion: 98 Resp: 413949

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

10.06

250000

200000

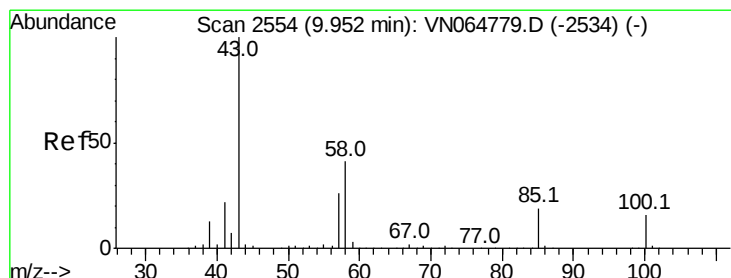
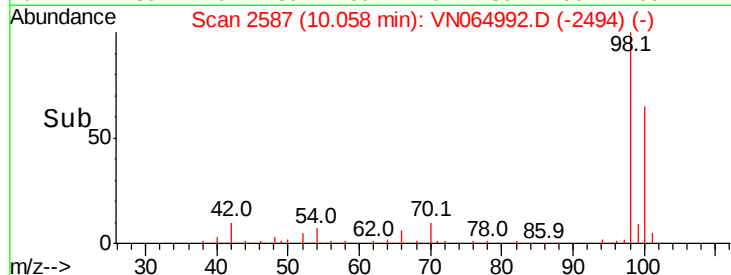
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.195 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064992.D

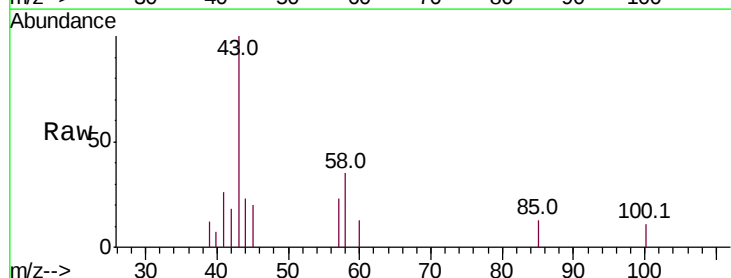
Acq: 9 Dec 2020 1:27

Tgt Ion: 43 Resp: 3379

Ion Ratio Lower Upper

43 100

58 44.3 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

10000

8000

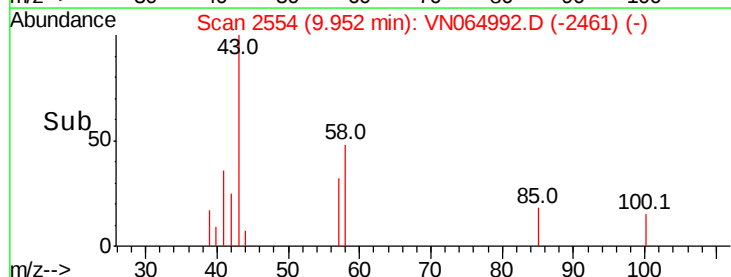
6000

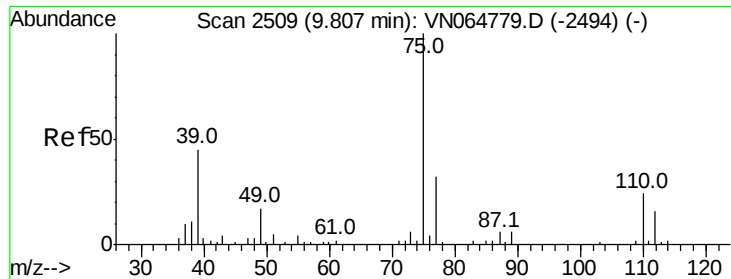
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 7.110 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

CRT014

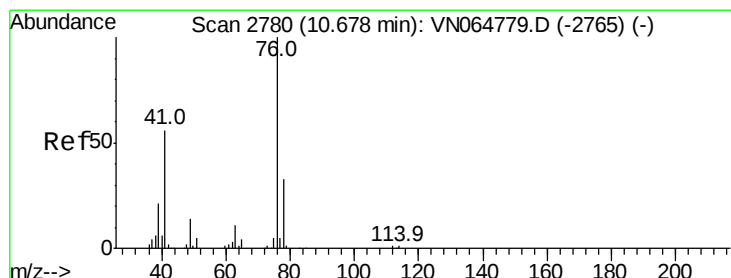
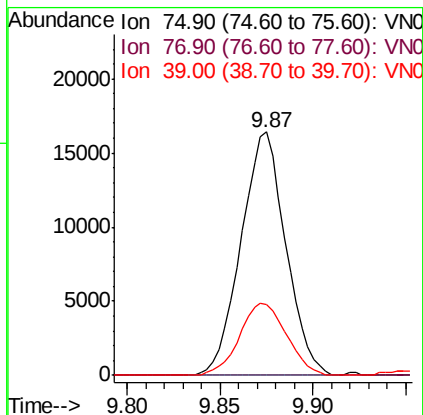
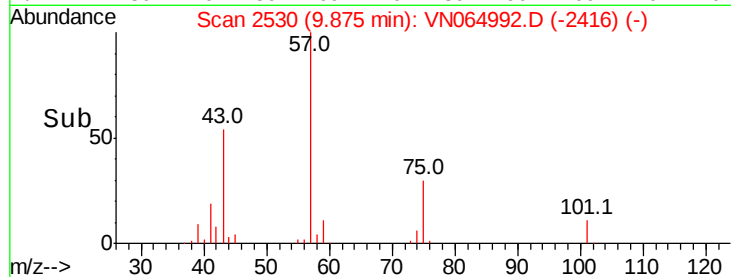
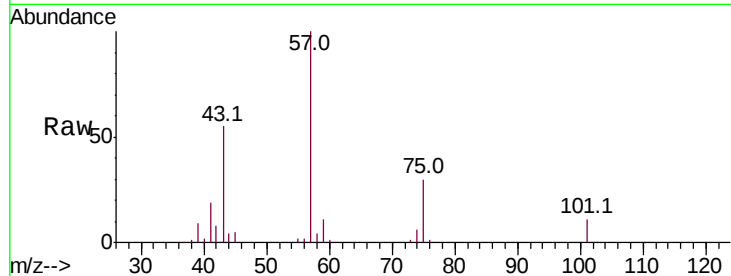
Tot Ion: 75 Resp: 27513

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 29.0 35.6 53.4#



#57

1,3-Dichloropropane

Concen: 4.175 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064992.D

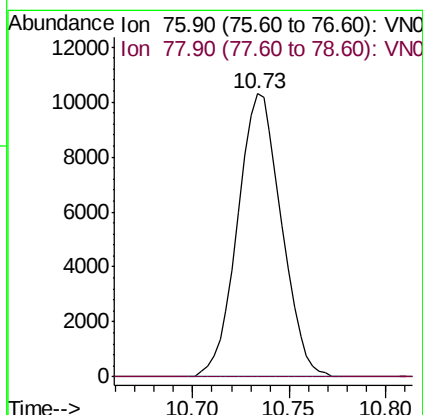
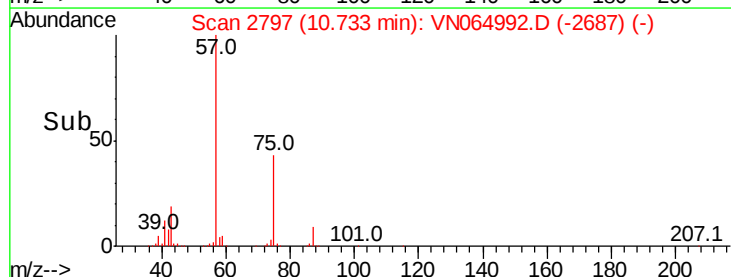
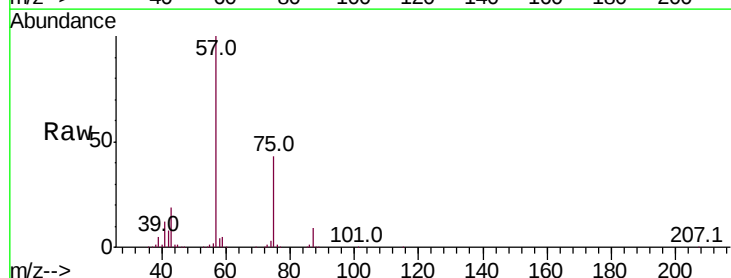
Acq: 9 Dec 2020 1:27

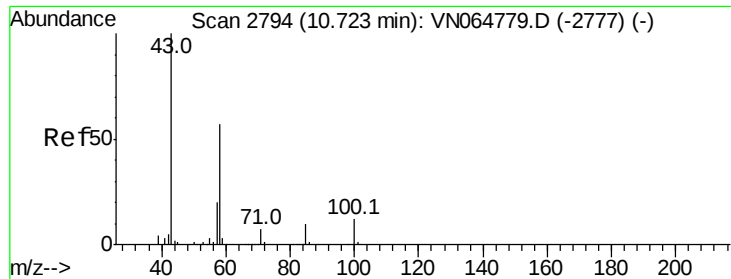
Tgt Ion: 76 Resp: 16241

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 101.902 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

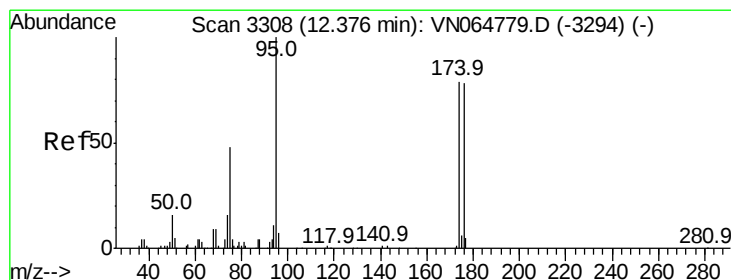
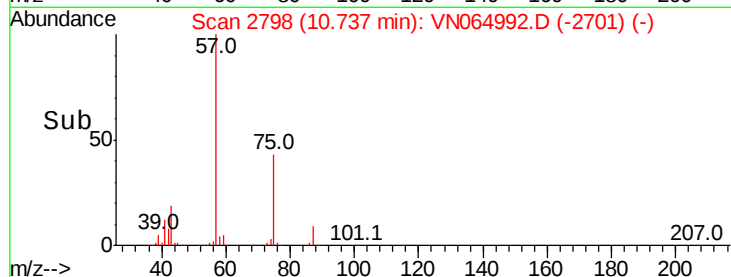
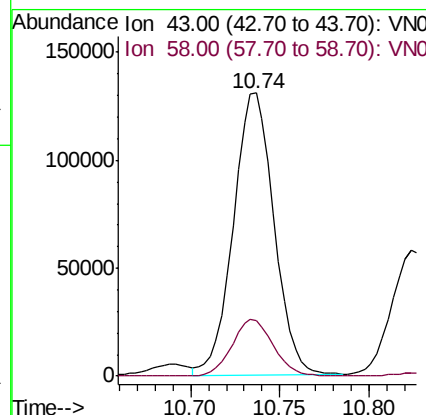
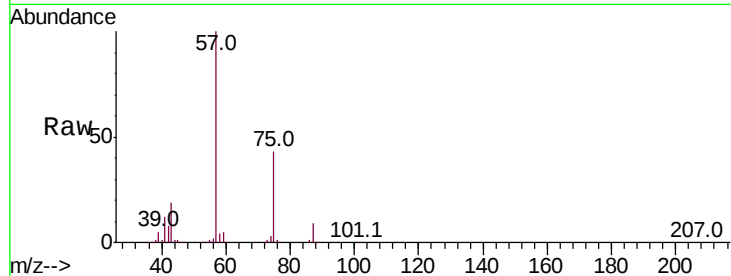
CRT014

Tot Ion: 43 Resp: 207365

Ion Ratio Lower Upper

43 100

58 20.5 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 53.527 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064992.D

Acq: 9 Dec 2020 1:27

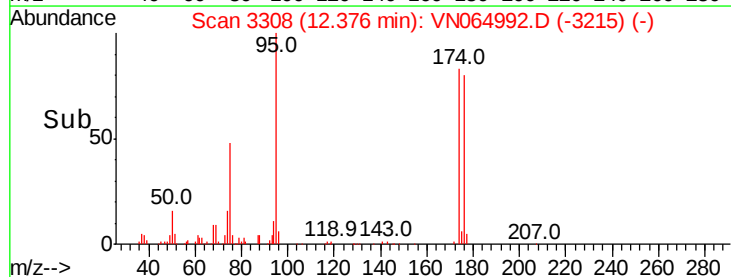
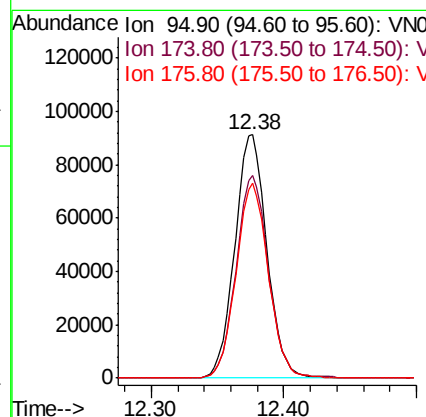
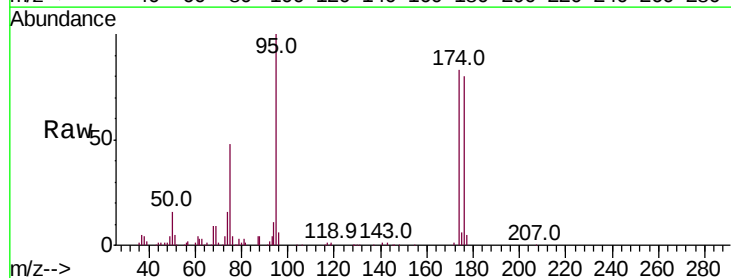
Tgt Ion: 95 Resp: 153534

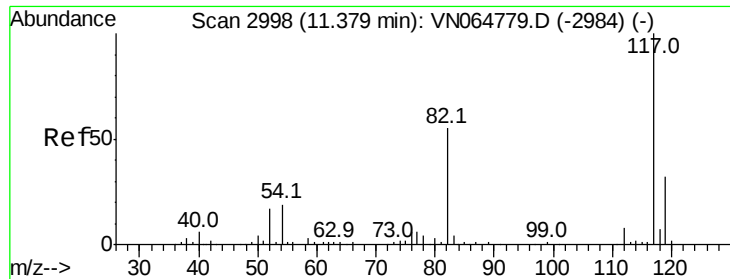
Ion Ratio Lower Upper

95 100

174 83.9 0.0 160.4

176 80.8 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: VN064992.D

Acq: 9 Dec 2020 1:27

Instrument :

MSVOA_N

ClientSampled :

CRT014

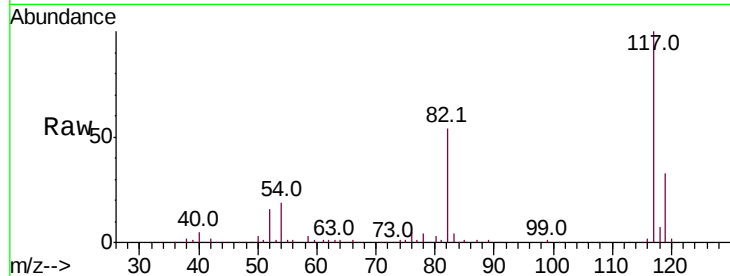
Tot Ion:117 Resp: 344903

Ion Ratio Lower Upper

117 100

82 53.9 44.2 66.2

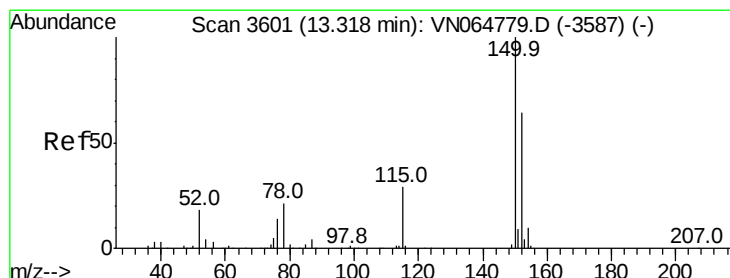
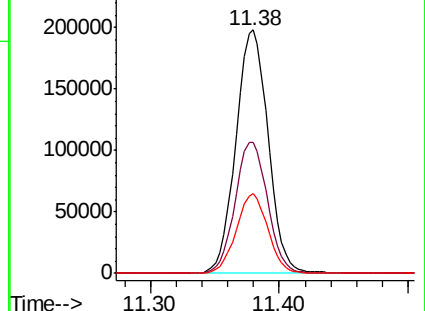
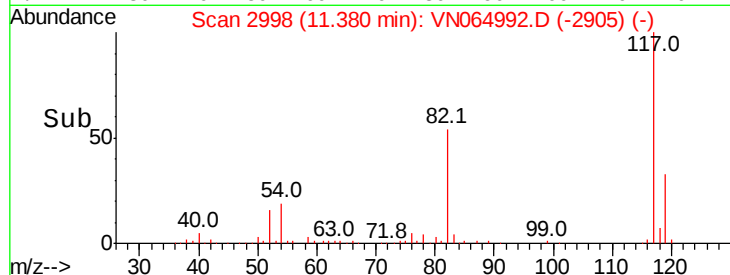
119 32.8 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

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: VN064992.D

Acq: 9 Dec 2020 1:27

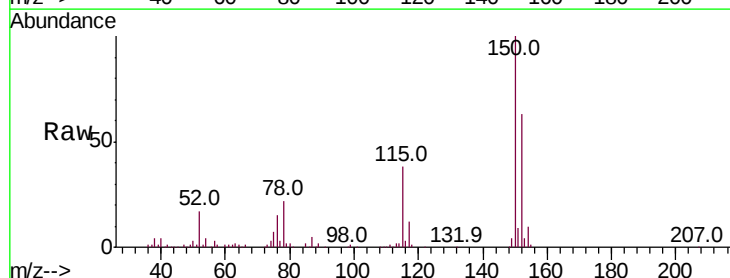
Tgt Ion:152 Resp: 144310

Ion Ratio Lower Upper

152 100

115 58.5 29.7 89.1

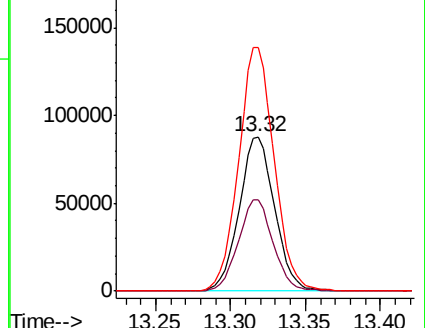
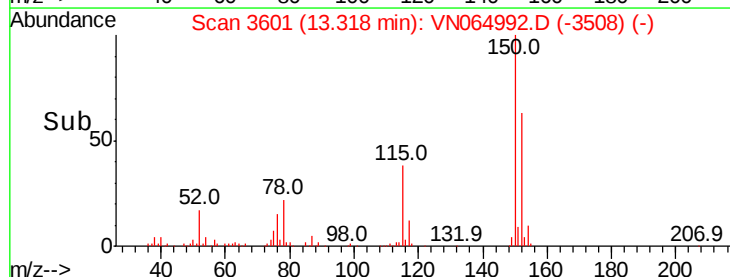
150 159.0 0.0 350.6

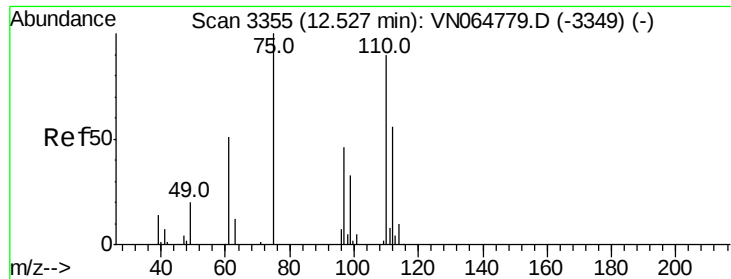


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

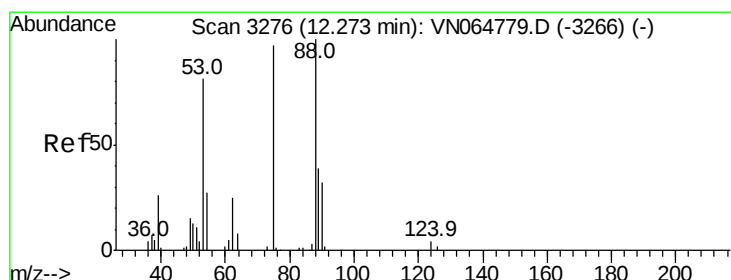
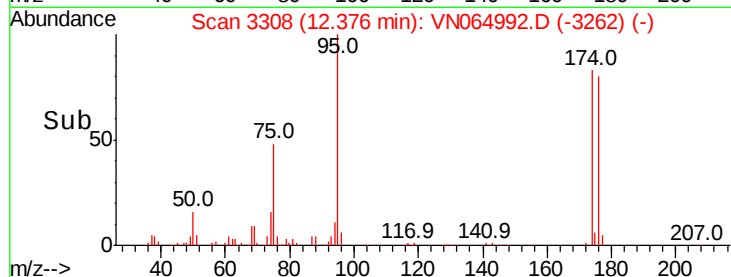
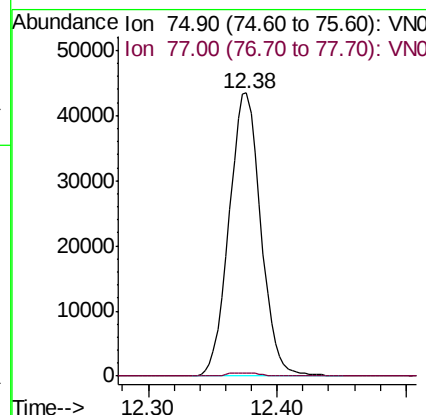
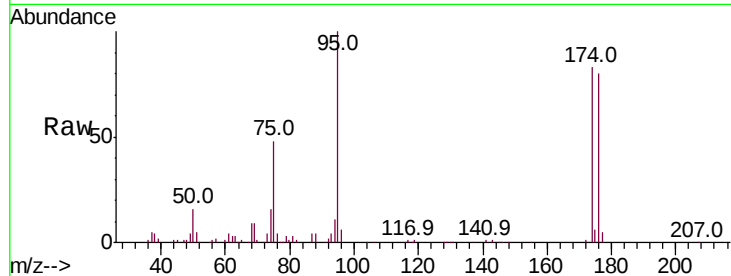




#76
 1,2,3-Trichloropropane
 Concen: 23.898 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064992.D
 Acq: 9 Dec 2020 1:27

Instrument :
 MSVOA_N
 ClientSampled :
 CRT014

Tot Ion: 75 Resp: 74272
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.500 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064992.D
 Acq: 9 Dec 2020 1:27

Tgt Ion: 75 Resp: 74272
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

