

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064990.D
 Acq On : 9 Dec 2020 00:39
 Operator : JC/MD
 Sample : L4965-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CRT012

Quant Time: Dec 09 07:58:26 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	166784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	312322	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	332704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139360	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	106076	54.71	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	109.42%
35) Dibromofluoromethane	7.55	113	99846	53.43	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.86%
50) Toluene-d8	10.06	98	396543	51.93	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.86%
62) 4-Bromofluorobenzene	12.38	95	150366	55.02	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	110.04%

Target Compounds

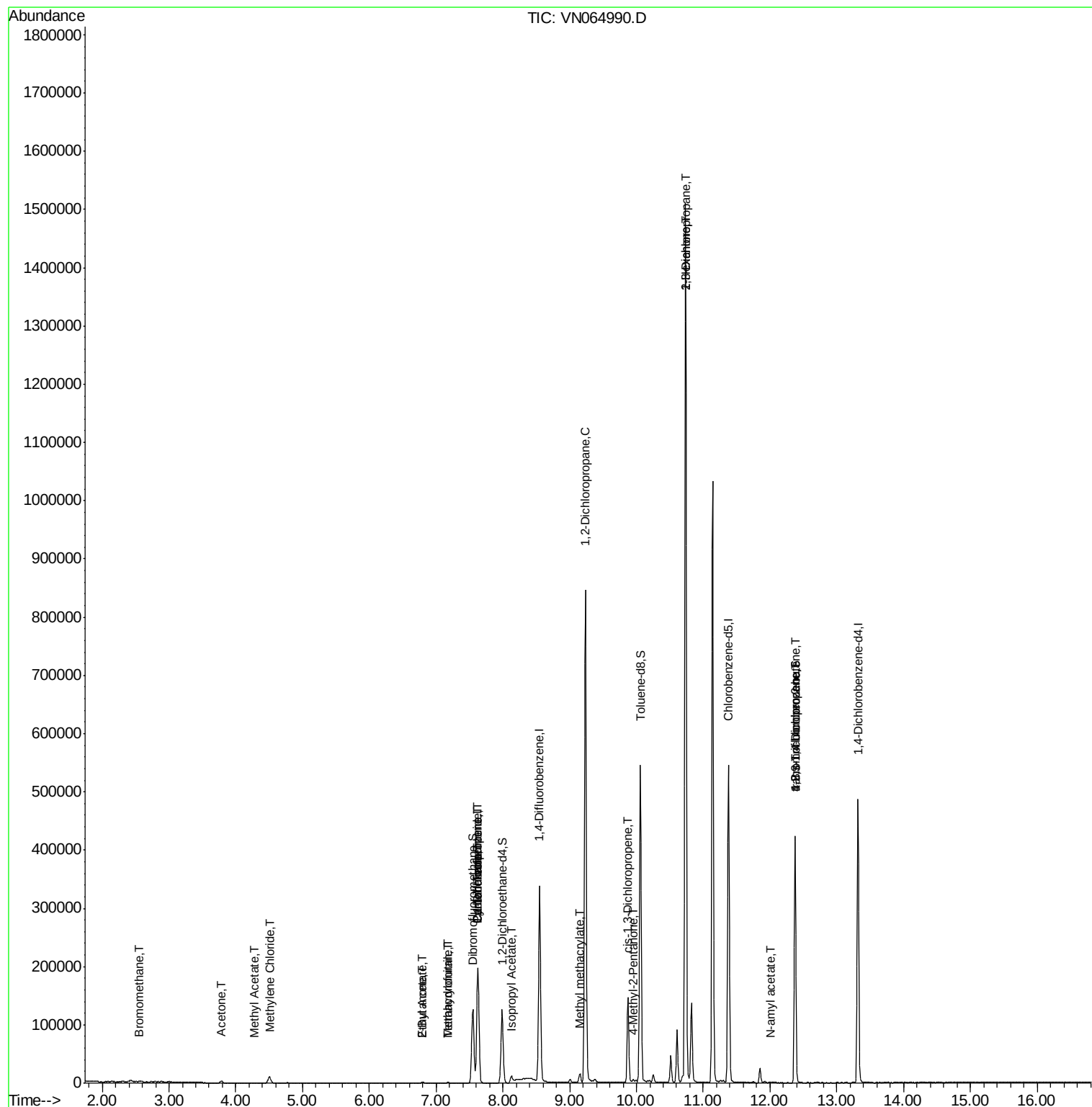
					Qvalue	
5) Bromomethane	2.55	94	280	0.218	ug/l	89
16) Acetone	3.78	43	5798	9.096	ug/l #	85
18) Methyl Acetate	4.29	43	1124	0.587	ug/l #	50
20) Methylene Chloride	4.50	84	8246	4.129	ug/l	85
25) 2-Butanone	6.79	43	2509	2.428	ug/l #	49
29) Tetrahydrofuran	7.18	42	1054	1.478	ug/l #	44
31) Cyclohexane	7.62	56	2974	1.100	ug/l #	8
36) 1,1-Dichloropropene	7.63	75	11637	4.020	ug/l #	49
37) Ethyl Acetate	6.79	43	2509	0.900	ug/l #	66
38) Carbon Tetrachloride	7.63	117	16316	5.417	ug/l #	17
41) Methacrylonitrile	7.18	41	639	0.497	ug/l #	31
43) Isopropyl Acetate	8.13	43	17478	3.895	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	949	0.413	ug/l #	43
48) Methyl methacrylate	9.14	41	3670	1.712	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3443	1.278	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	28001	7.595	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	16156	4.360	ug/l #	42
59) 2-Hexanone	10.74	43	204609	105.538	ug/l #	51
74) N-amyl acetate	12.00	43	854	0.224	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	70885	23.619	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	70885	64.733	ug/l #	15

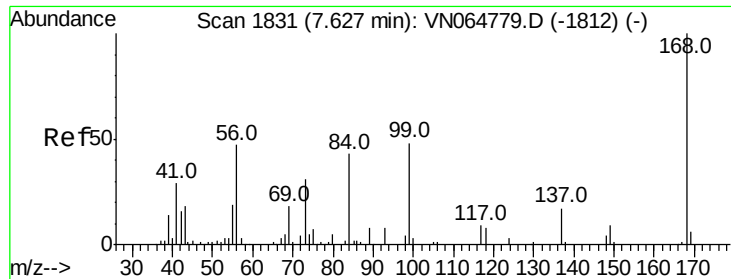
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064990.D

Acq: 9 Dec 2020 00:39

Instrument :

MSVOA_N

ClientSampled :

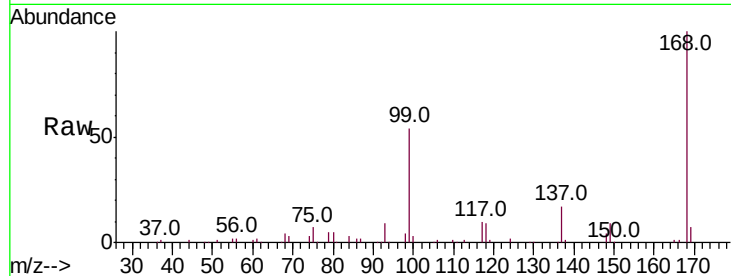
CRT012

Tot Ion:168 Resp: 166784

Ion Ratio Lower Upper

168 100

99 54.1 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

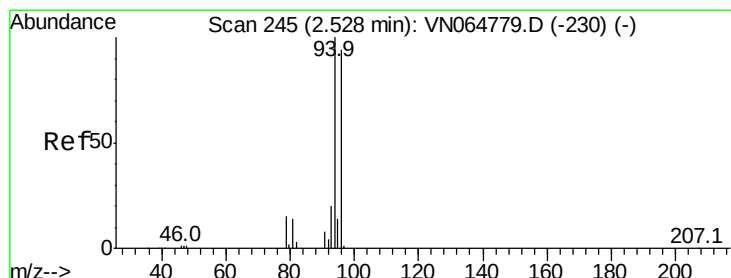
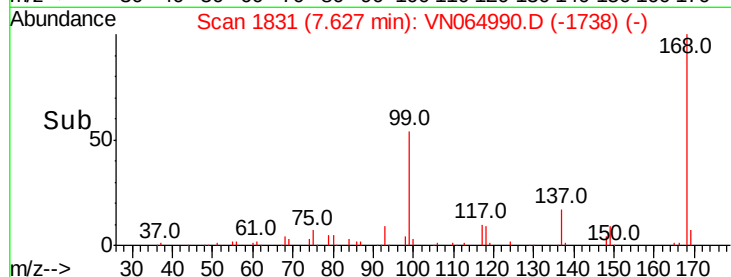
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.218 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.03 min

Lab File: VN064990.D

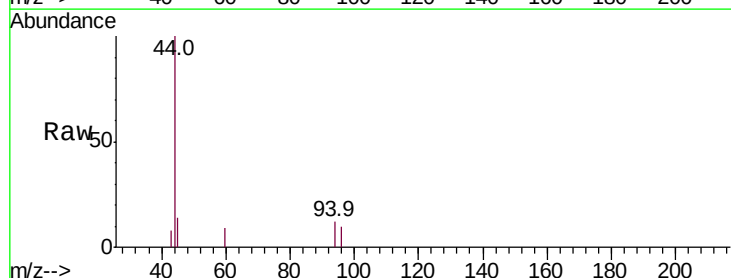
Acq: 9 Dec 2020 00:39

Tgt Ion: 94 Resp: 280

Ion Ratio Lower Upper

94 100

96 83.5 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.55

250

200

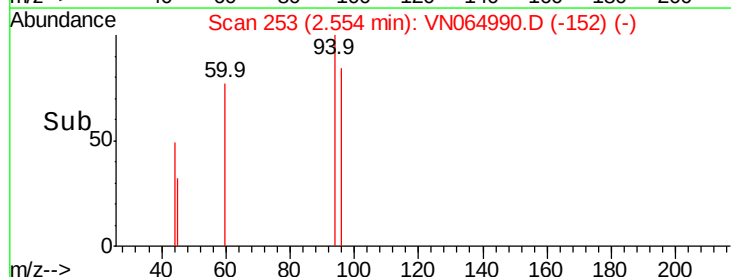
150

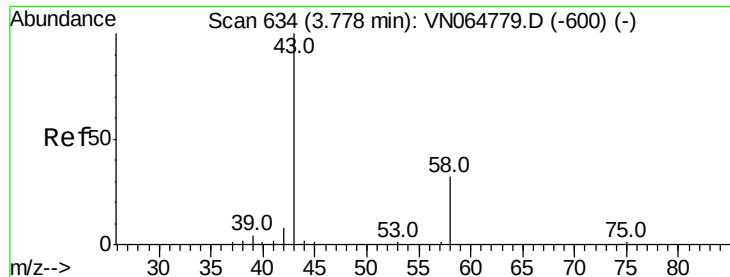
100

50

0

Time-->





#16

Acetone

Concen: 9.096 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064990.D

Acq: 9 Dec 2020 00:39

Instrument :

MSVOA_N

ClientSampleId :

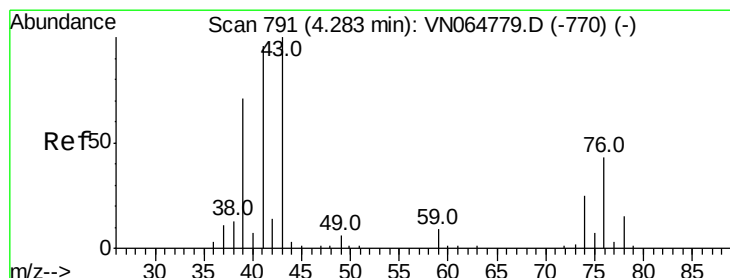
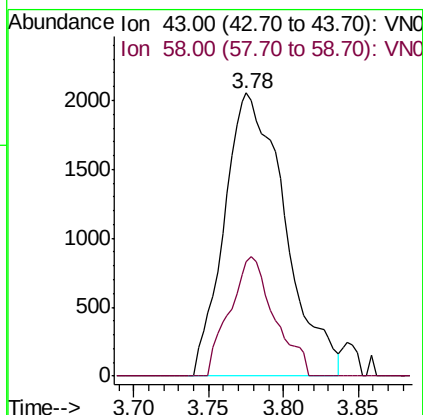
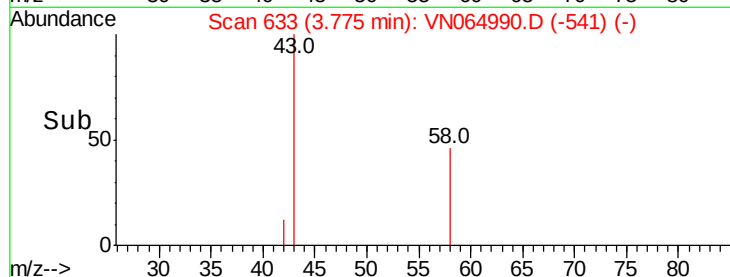
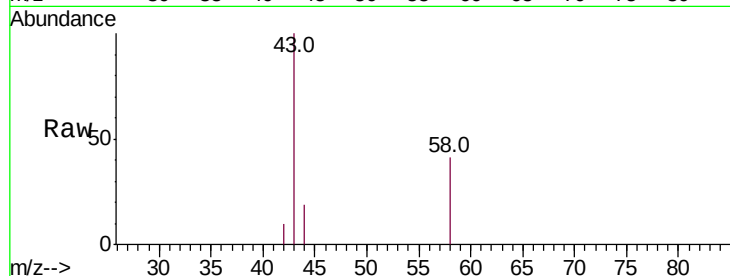
CRT012

Tot Ion: 43 Resp: 5798

Ion Ratio Lower Upper

43 100

58 40.6 25.7 38.5#



#18

Methyl Acetate

Concen: 0.587 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064990.D

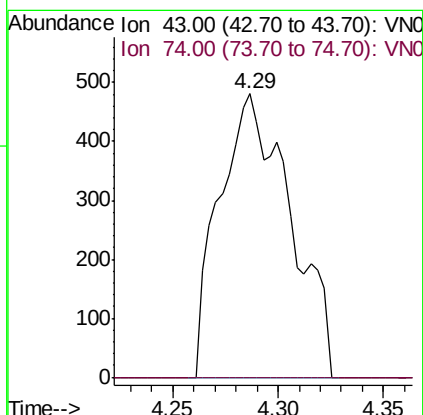
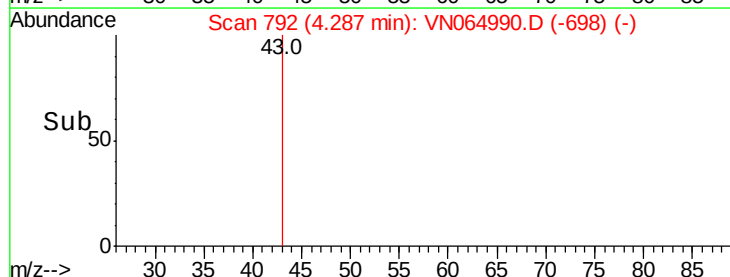
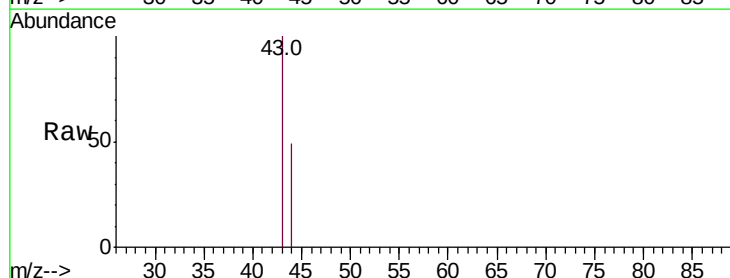
Acq: 9 Dec 2020 00:39

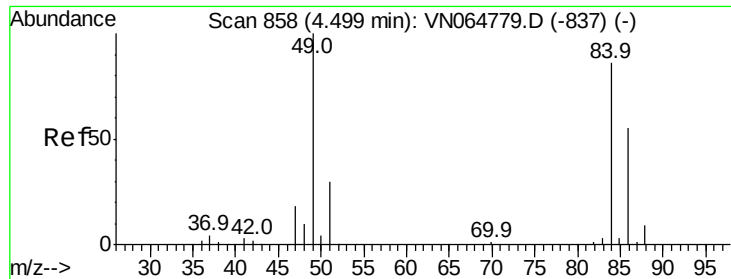
Tgt Ion: 43 Resp: 1124

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#

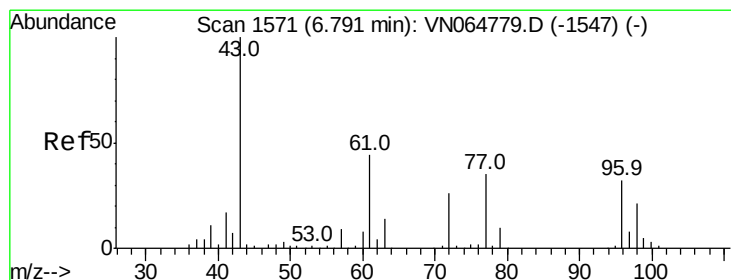
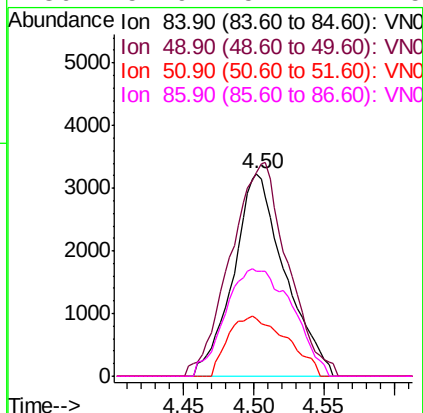
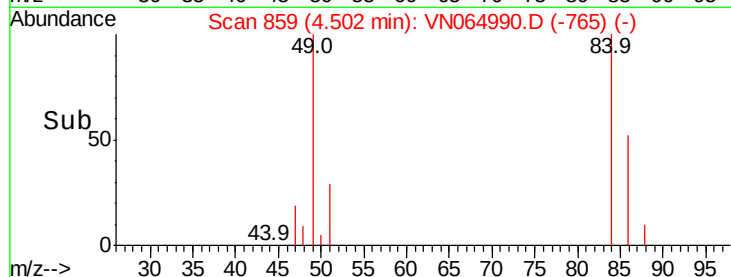
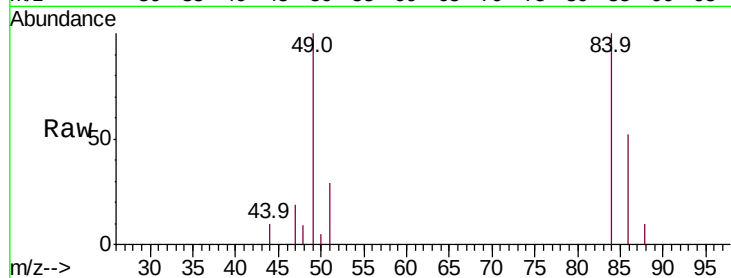




#20
Methvlene Chloride
Concen: 4.129 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

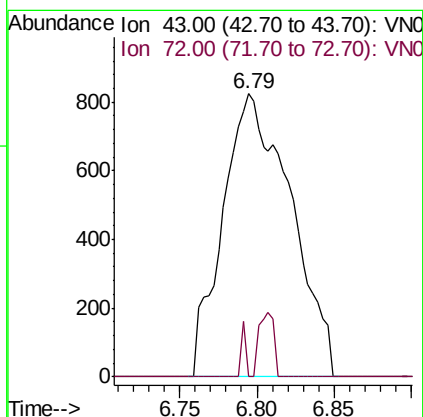
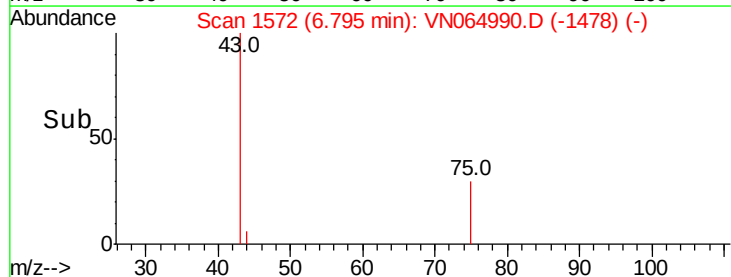
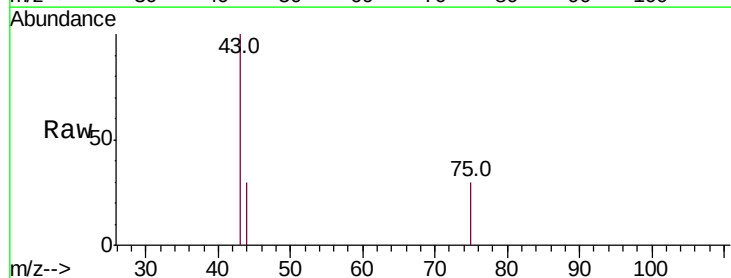
Instrument :
MSVOA_N
ClientSampled :
CRT012

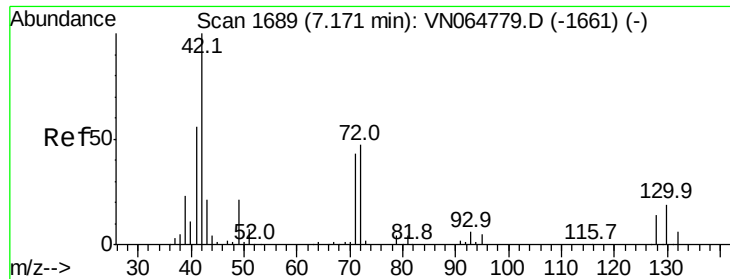
Tot Ion: 84 Resp: 8246
Ion Ratio Lower Upper
84 100
49 100.3 93.4 140.0
51 28.6 28.2 42.4
86 51.9 51.7 77.5



#25
2-Butanone
Concen: 2.428 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Tgt Ion: 43 Resp: 2509
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#





#29

Tetrahydrofuran

Concen: 1.478 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN064990.D

Acq: 9 Dec 2020 00:39

Instrument :

MSVOA_N

ClientSampleId :

CRT012

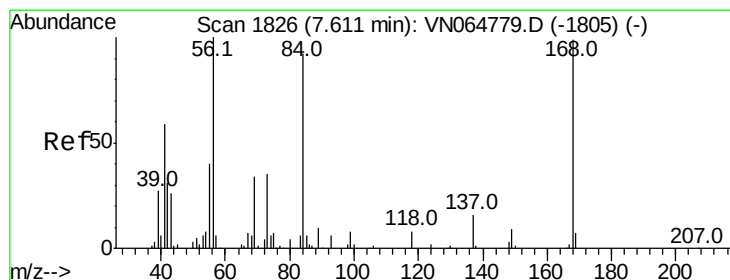
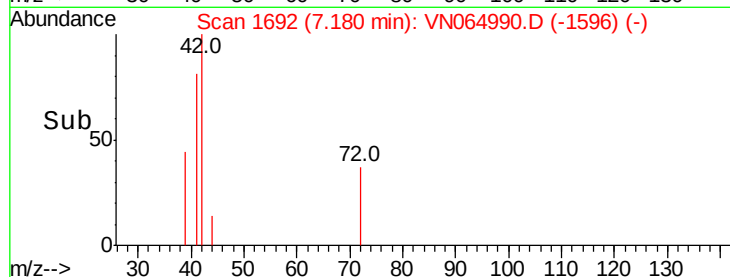
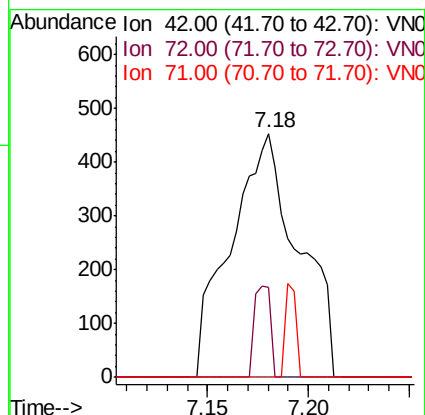
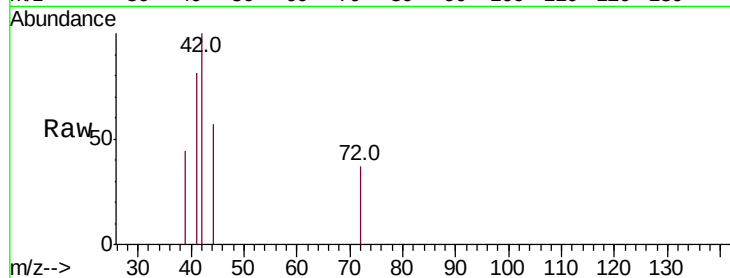
Tot Ion: 42 Resp: 1054

Ion Ratio Lower Upper

42 100

72 8.9 36.6 54.8#

71 6.2 33.6 50.4#



#31

Cyclohexane

Concen: 1.100 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064990.D

Acq: 9 Dec 2020 00:39

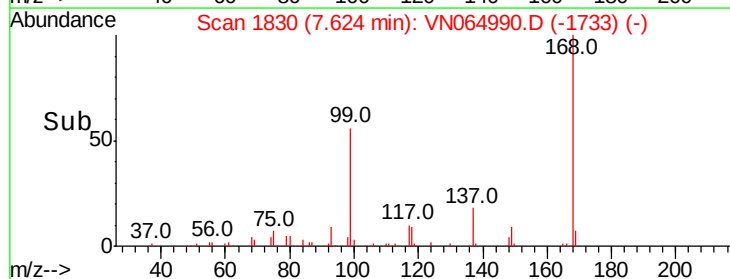
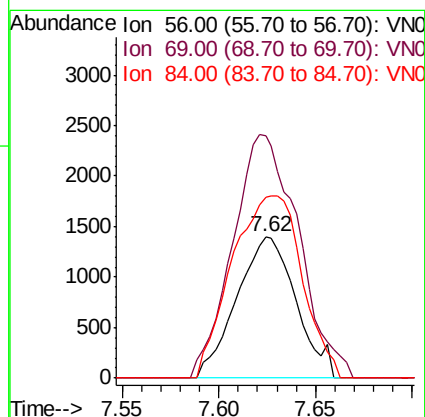
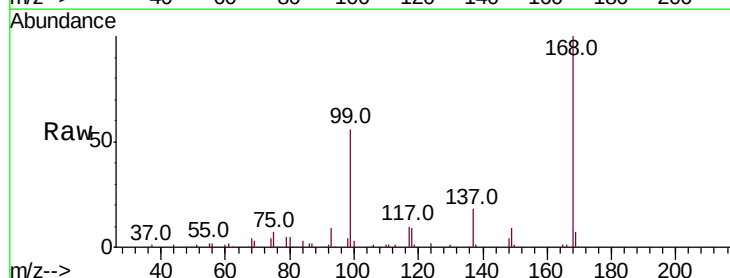
Tgt Ion: 56 Resp: 2974

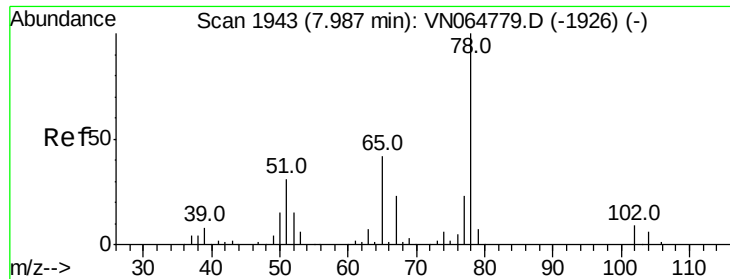
Ion Ratio Lower Upper

56 100

69 171.8 27.5 41.3#

84 127.8 73.9 110.9#

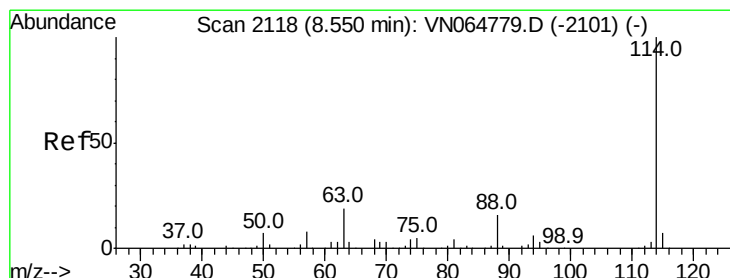
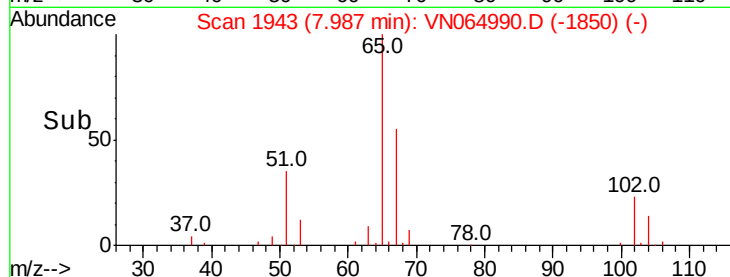
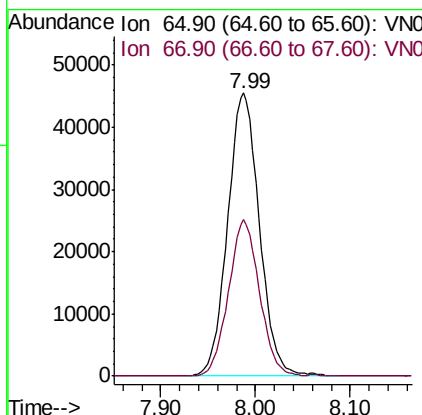
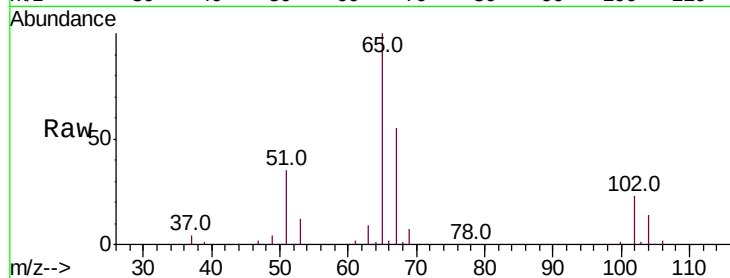




#33
 1,2-Dichloroethane-d4
 Concen: 54.707 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064990.D
 Acq: 9 Dec 2020 00:39

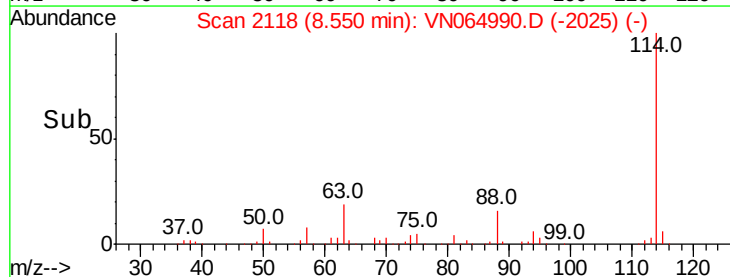
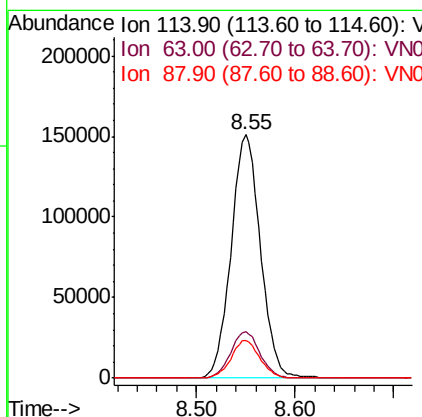
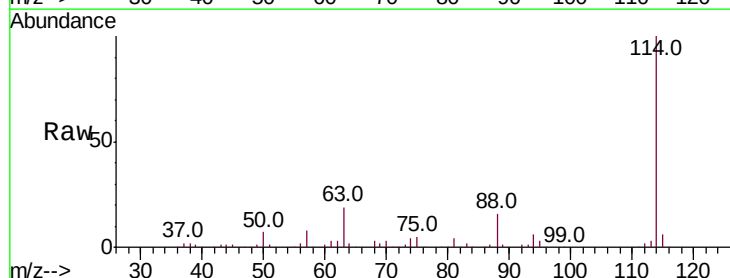
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 ClientSampled :
 CRT012

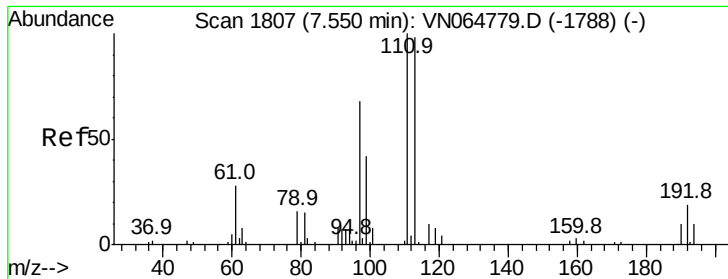
Tot Ion: 65 Resp: 106076
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064990.D
 Acq: 9 Dec 2020 00:39

Tgt Ion: 114 Resp: 312322
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.6
 88 15.7 0.0 32.6

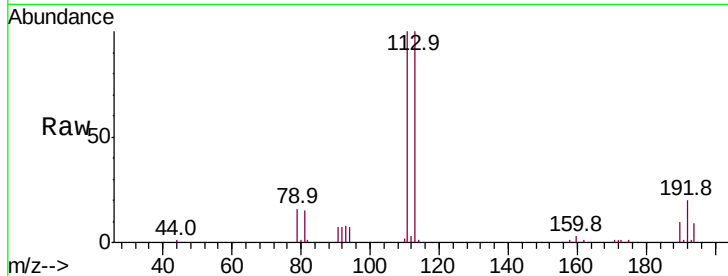




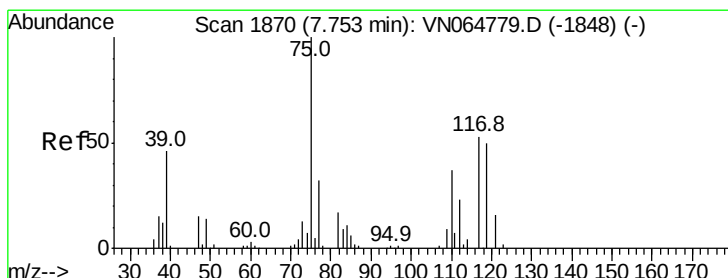
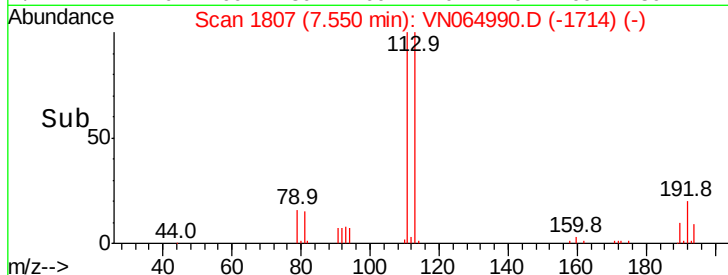
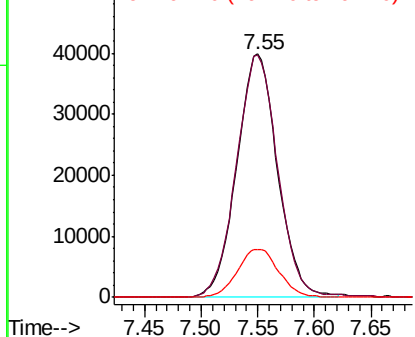
#35
 Dibromofluoromethane
 Concen: 53.427 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064990.D
 Acq: 9 Dec 2020 00:39

Instrument :
 MSVOA_N
 ClientSampled :
 CRT012

Tot Ion:113 Resp: 99846
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.6 122.4
 192 20.2 16.2 24.2

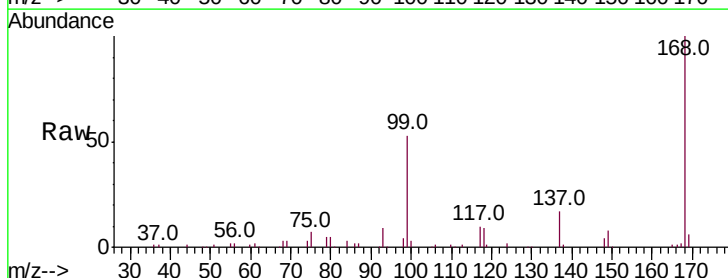


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

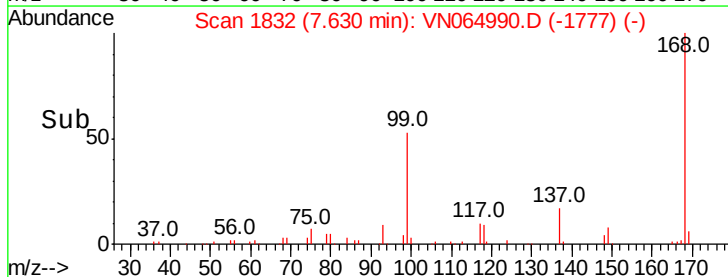
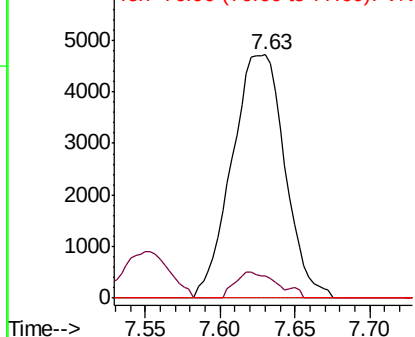


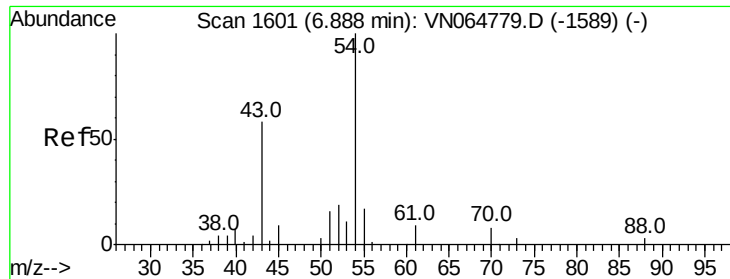
#36
 1,1-Dichloropropene
 Concen: 4.020 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN064990.D
 Acq: 9 Dec 2020 00:39

Tgt Ion: 75 Resp: 11637
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.8 53.3#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

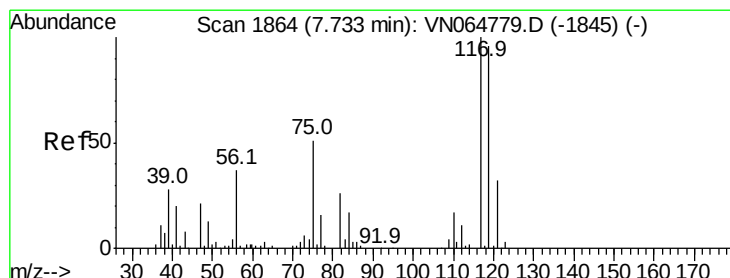
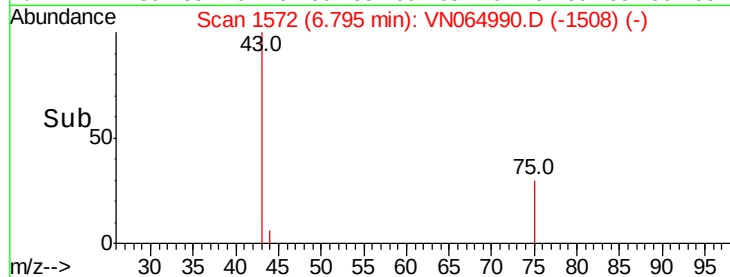
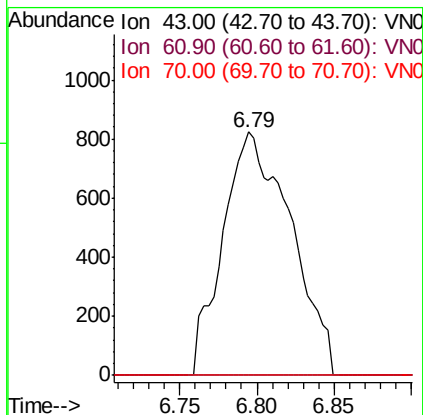
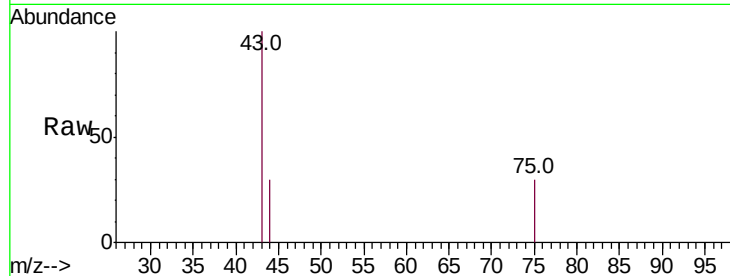




#37
Ethyl Acetate
Concen: 0.900 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. -0.09 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

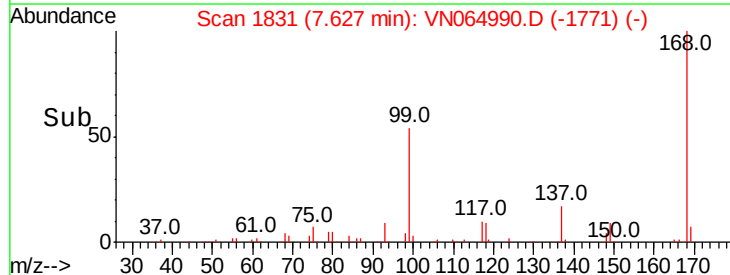
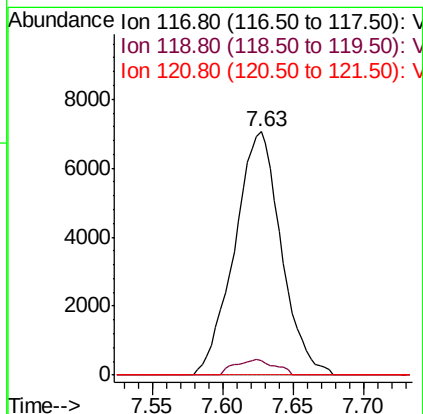
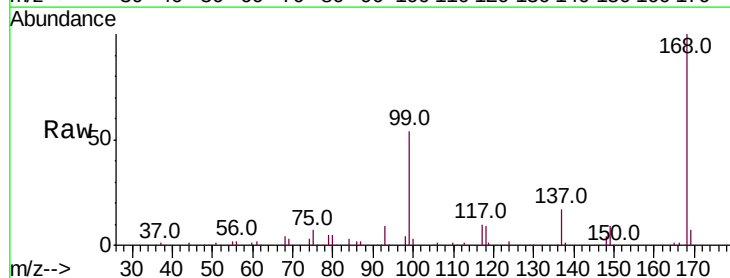
Instrument :
MSVOA_N
ClientSampled :
CRT012

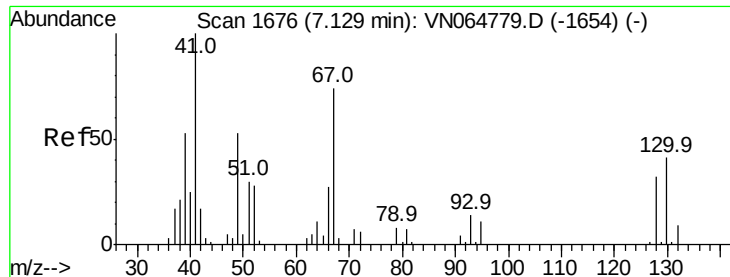
Tot Ion: 43 Resp: 2509
Ion Ratio Lower Upper
43 100
61 0.0 12.8 19.2#
70 0.0 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 5.417 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Tgt Ion: 117 Resp: 16316
Ion Ratio Lower Upper
117 100
119 6.2 76.7 115.1#
121 0.0 25.4 38.2#

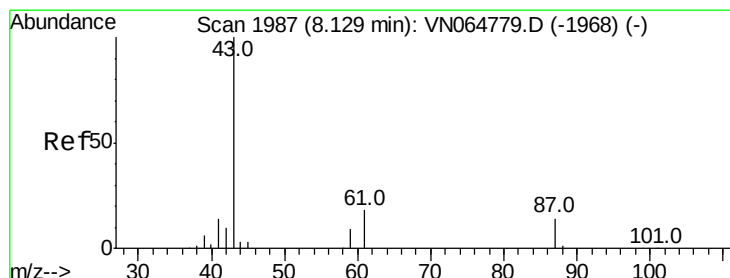
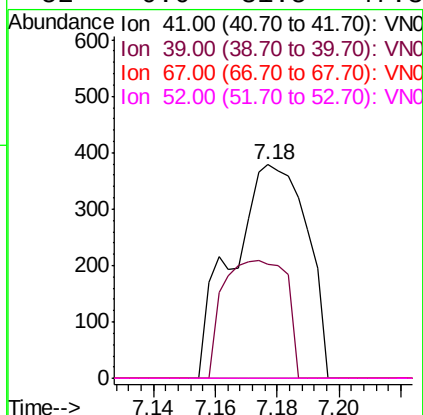
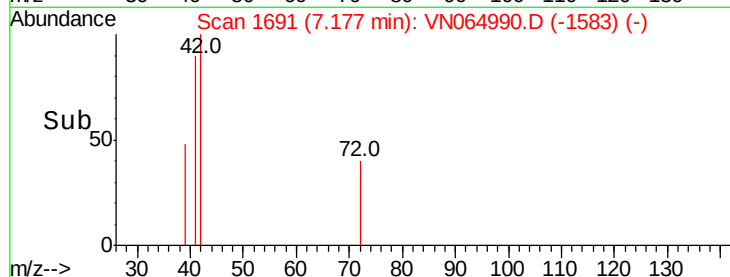
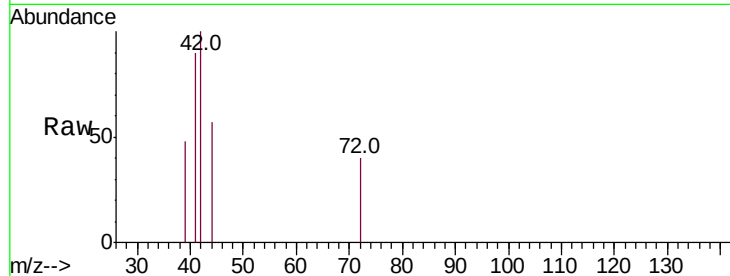




#41
Methacrylonitrile
Concen: 0.497 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.05 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

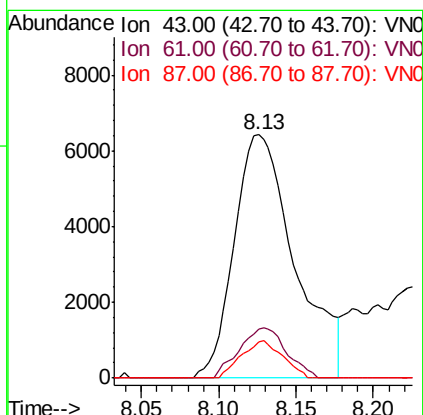
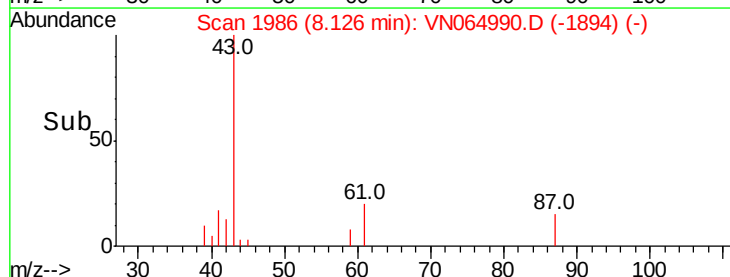
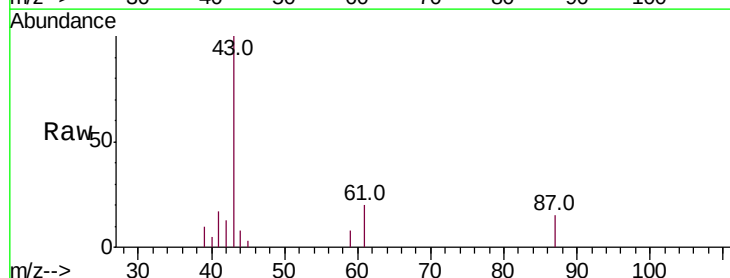
Instrument :
MSVOA_N
ClientSampled :
CRT012

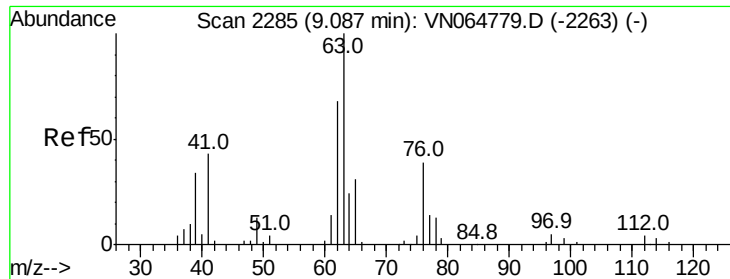
Tot Ion: 41 Resp: 639
Ion Ratio Lower Upper
41 100
39 46.5 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 3.895 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Tgt Ion: 43 Resp: 17478
Ion Ratio Lower Upper
43 100
61 16.1 17.2 25.8#
87 10.6 11.4 17.0#

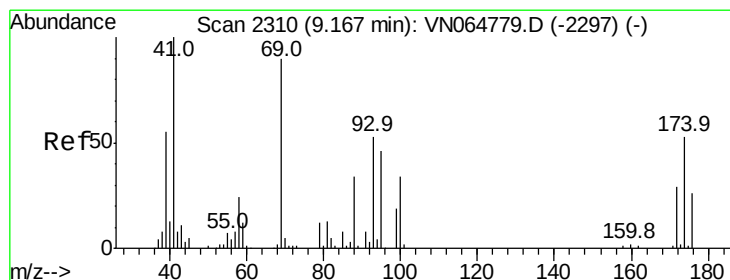
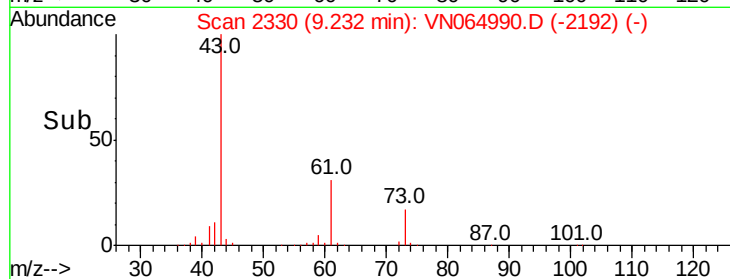
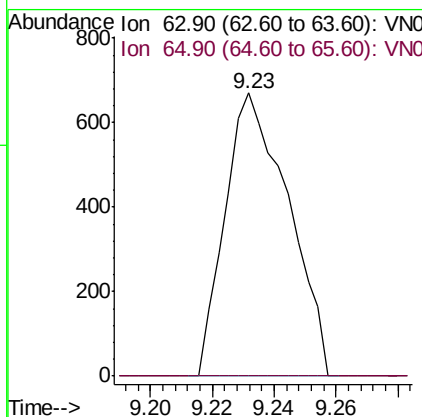
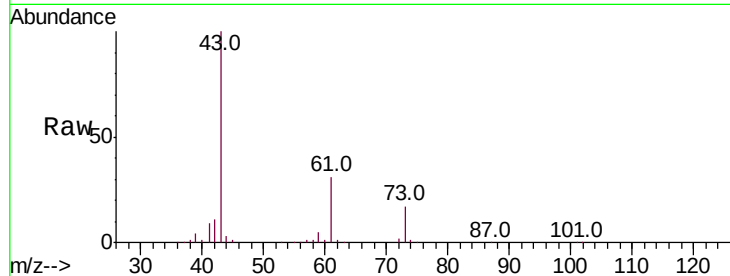




#45
 1,2-Dichloropropane
 Concen: 0.413 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN064990.D
 Acq: 9 Dec 2020 00:39

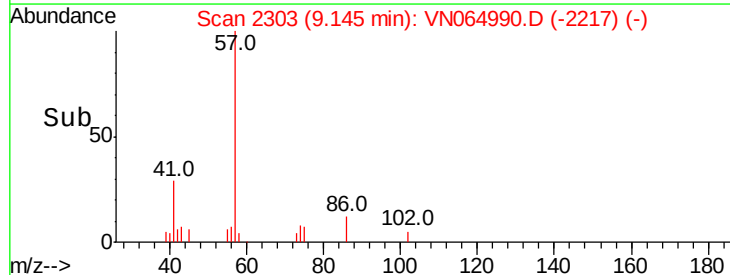
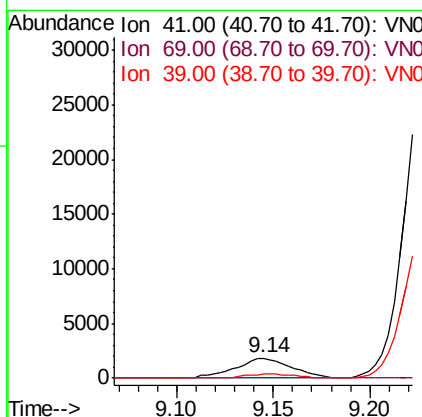
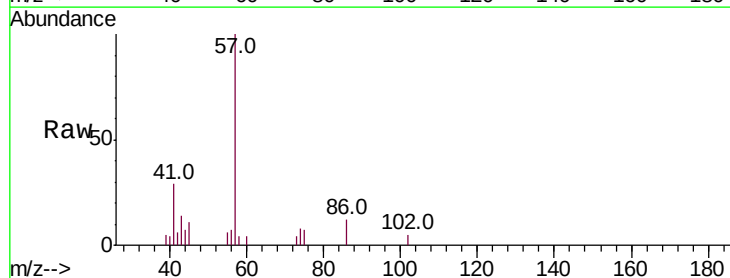
Instrument :
 MSVOA_N
 ClientSampleId :
 CRT012

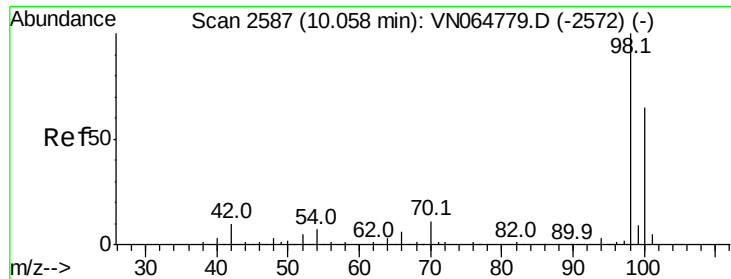
Tot Ion: 63 Resp: 949
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.712 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN064990.D
 Acq: 9 Dec 2020 00:39

Tgt Ion: 41 Resp: 3670
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 51.931 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064990.D

Acq: 9 Dec 2020 00:39

Instrument :

MSVOA_N

ClientSampleId :

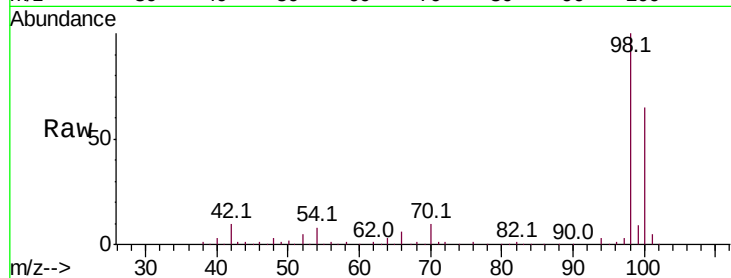
CRT012

Tot Ion: 98 Resp: 396543

Ion Ratio Lower Upper

98 100

100 64.1 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) (-)

250000

200000

150000

100000

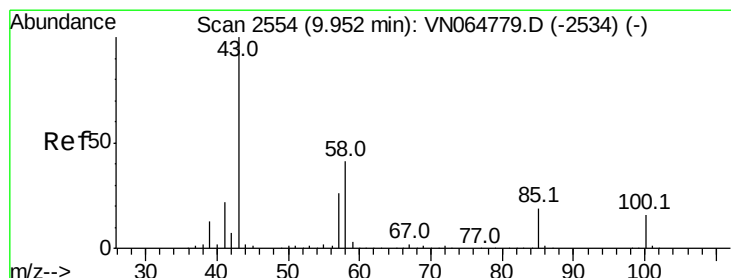
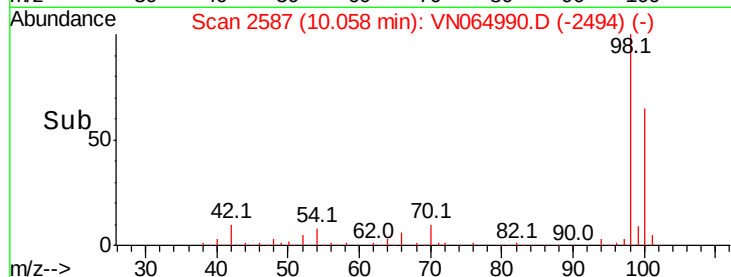
50000

0

10.00

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.278 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064990.D

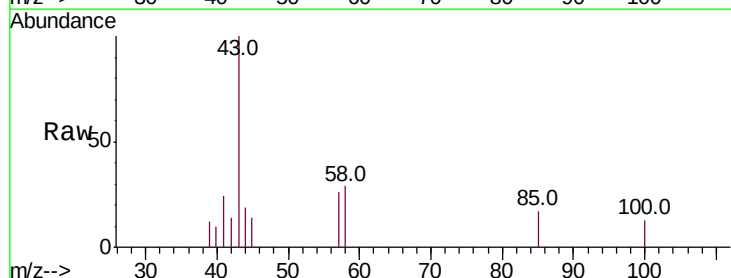
Acq: 9 Dec 2020 00:39

Tgt Ion: 43 Resp: 3443

Ion Ratio Lower Upper

43 100

58 34.0 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) (-)

2500

2000

1500

1000

500

0

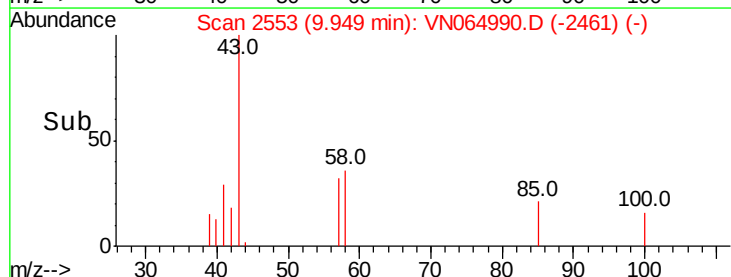
9.92

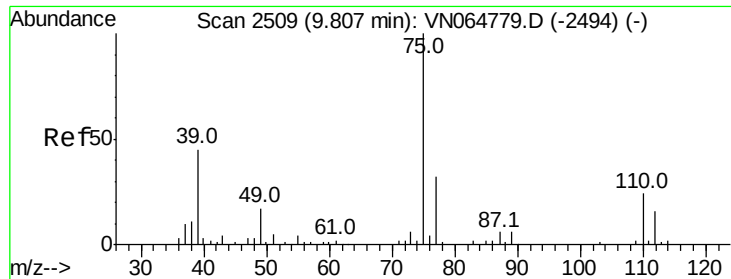
9.94

9.96

9.98

Time-->





#54

cis-1,3-Dichloropropene

Concen: 7.595 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064990.D

Acq: 9 Dec 2020 00:39

Instrument :

MSVOA_N

ClientSampleId :

CRT012

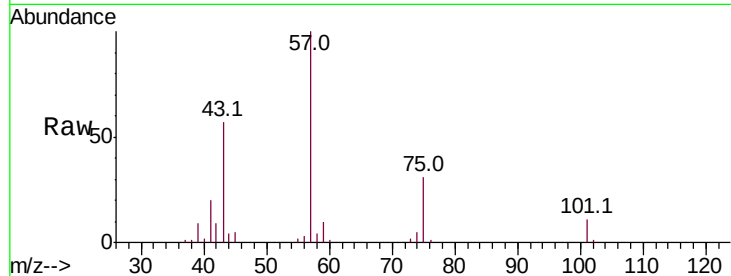
Tot Ion: 75 Resp: 28001

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

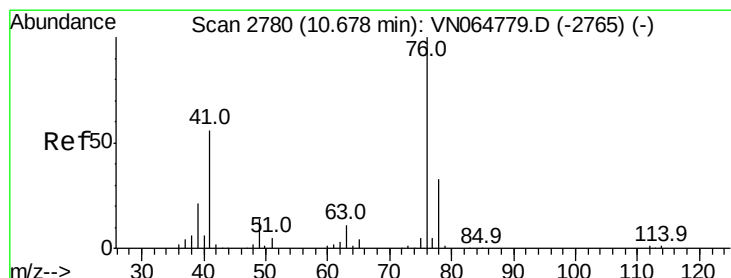
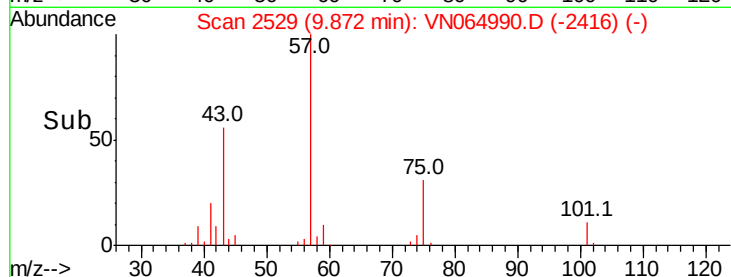
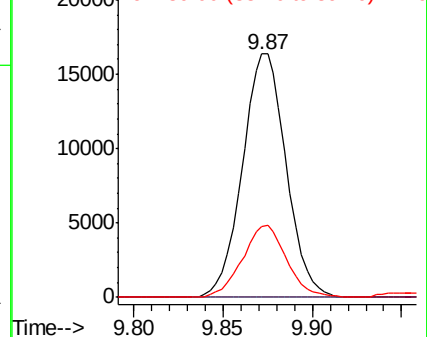
39 29.2 35.6 53.4#



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: 4.360 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064990.D

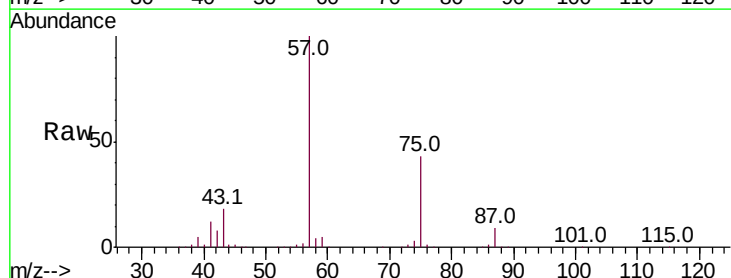
Acq: 9 Dec 2020 00:39

Tgt Ion: 76 Resp: 16156

Ion Ratio Lower Upper

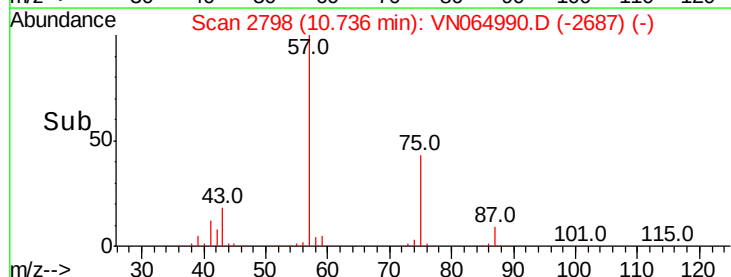
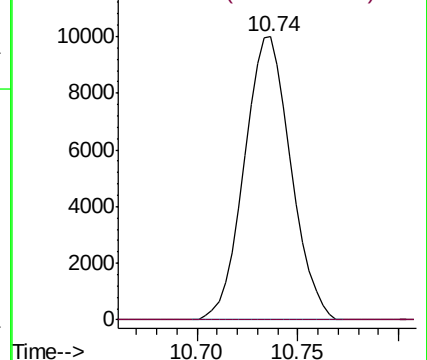
76 100

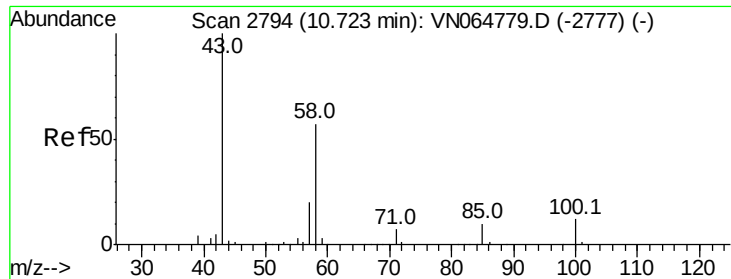
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

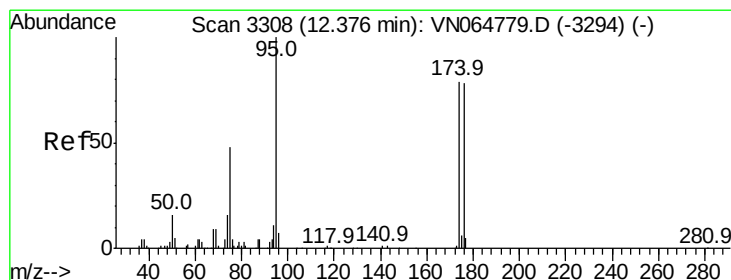
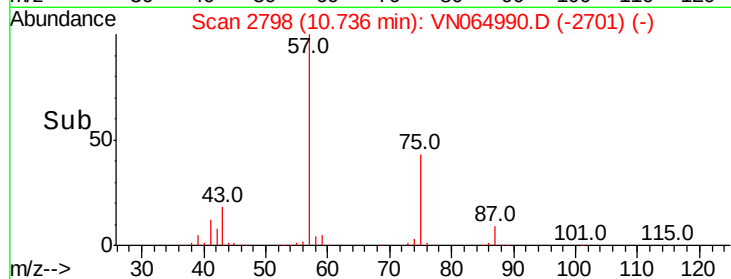
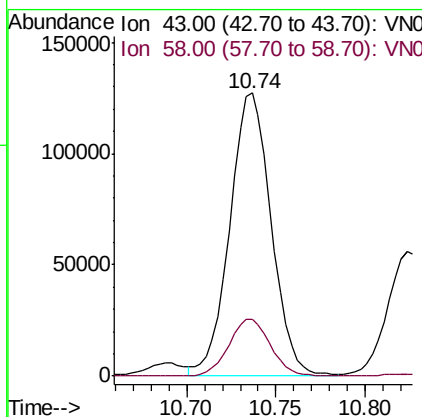
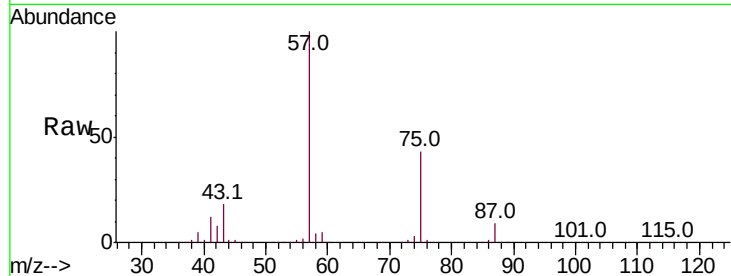




#59
2-Hexanone
Concen: 105.538 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

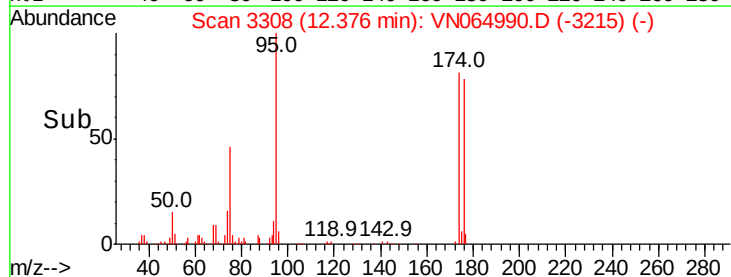
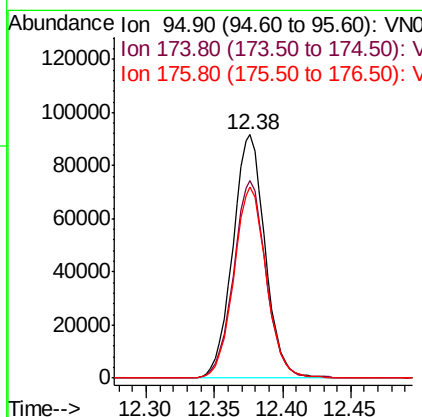
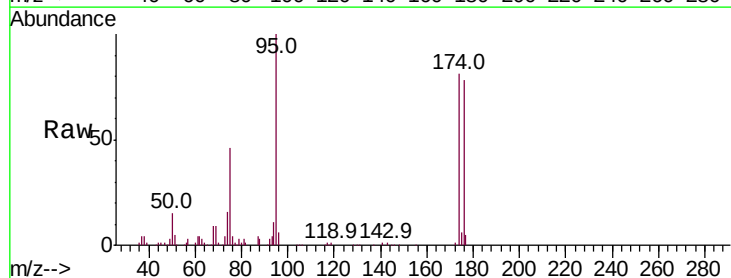
Instrument :
MSVOA_N
ClientSampled :
CRT012

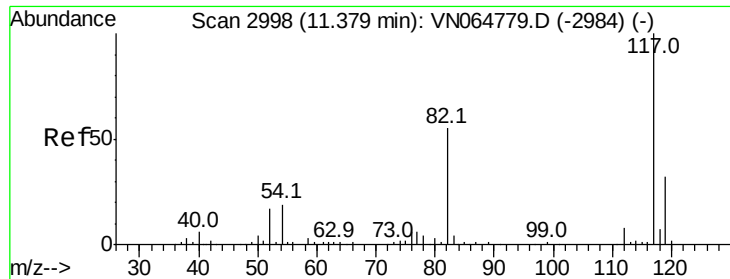
Tot Ion: 43 Resp: 204609
Ion Ratio Lower Upper
43 100
58 20.4 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 55.024 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Tgt Ion: 95 Resp: 150366
Ion Ratio Lower Upper
95 100
174 81.7 0.0 160.4
176 79.1 0.0 158.4

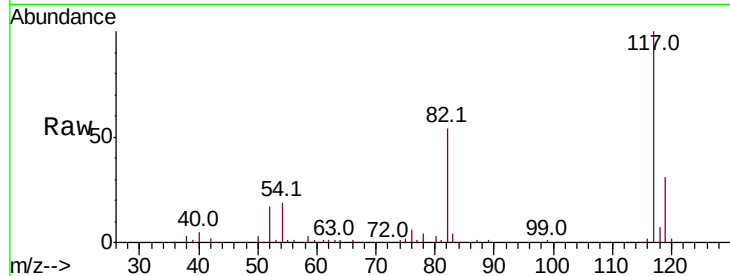




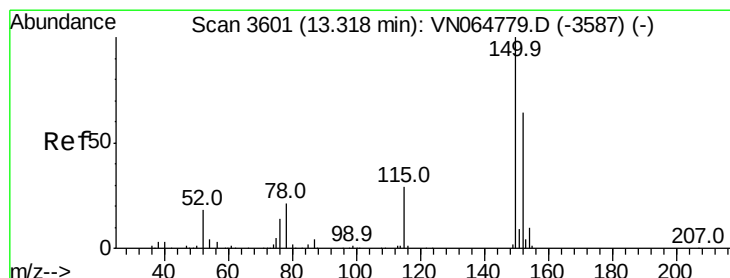
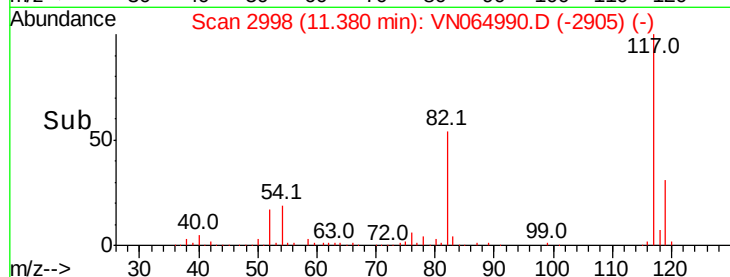
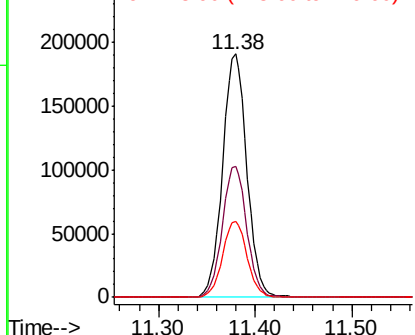
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Instrument :
MSVOA_N
ClientSampled :
CRT012

Tot Ion:117 Resp: 332704
Ion Ratio Lower Upper
117 100
82 54.0 44.2 66.2
119 31.3 25.8 38.6

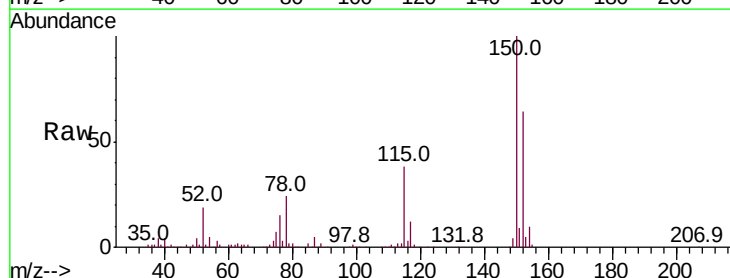


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

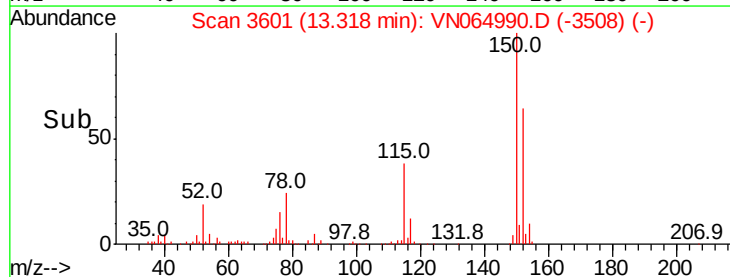
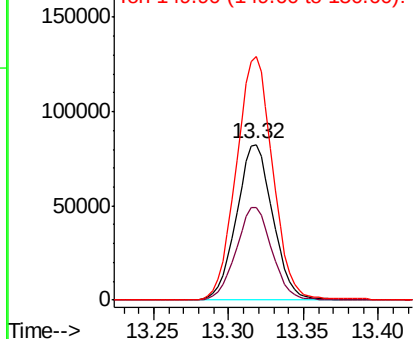


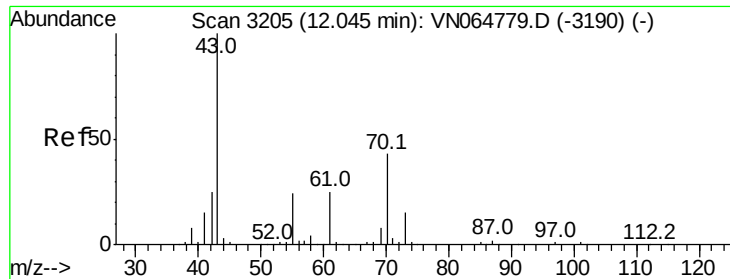
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Tgt Ion:152 Resp: 139360
Ion Ratio Lower Upper
152 100
115 58.8 29.7 89.1
150 157.9 0.0 350.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

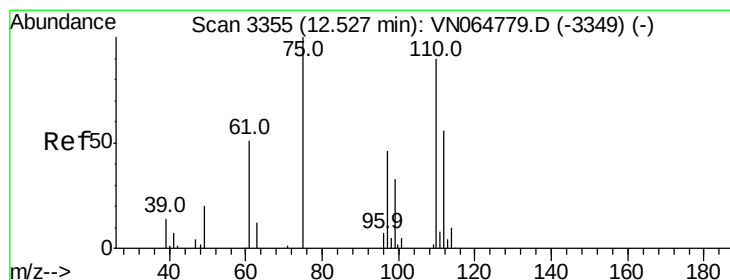
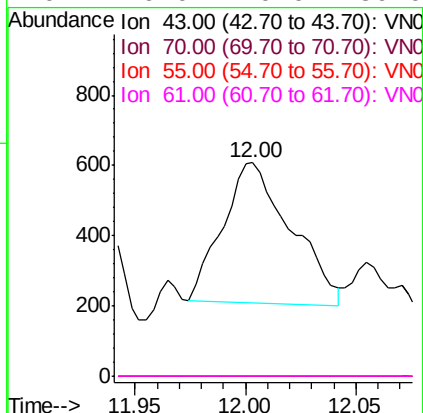
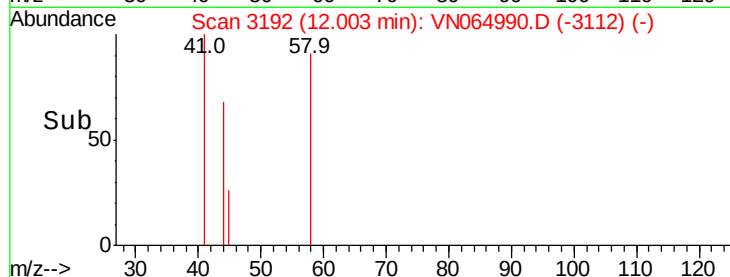
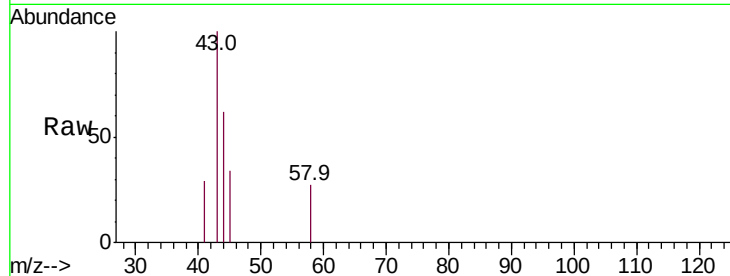




#74
N-amvl acetate
Concen: 0.224 ug/l
RT: 12.00 min Scan# 3192
Delta R.T. -0.04 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

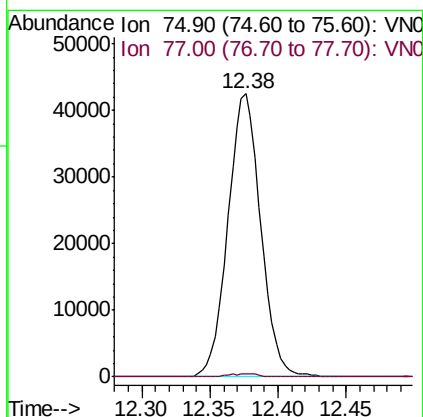
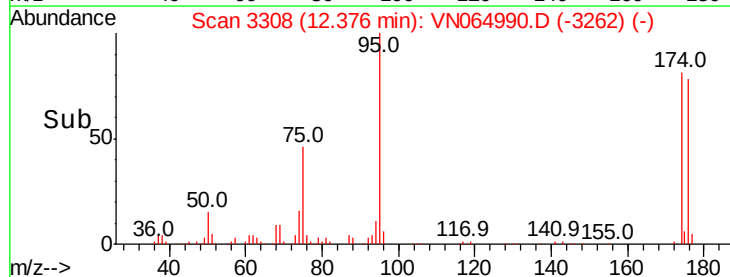
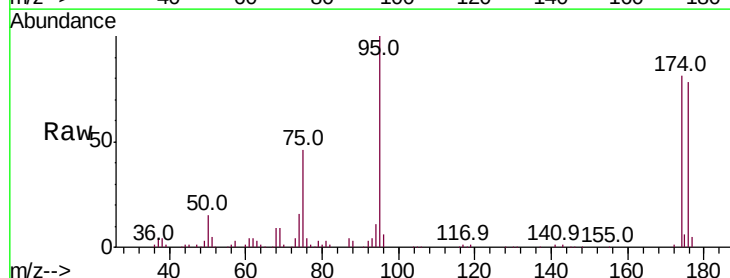
Instrument :
MSVOA_N
ClientSampleId :
CRT012

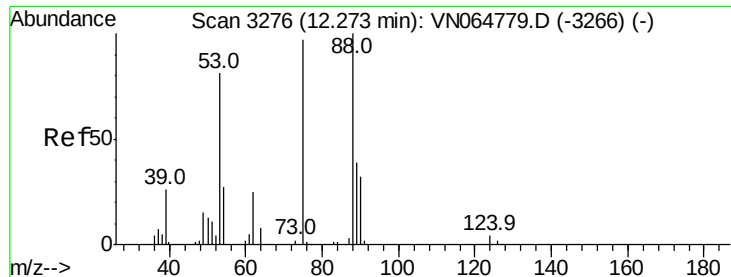
Tot Ion: 43 Resp: 854
Ion Ratio Lower Upper
43 100
70 0.0 34.5 51.7#
55 0.0 20.4 30.6#
61 0.0 20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 23.619 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064990.D
Acq: 9 Dec 2020 00:39

Tgt Ion: 75 Resp: 70885
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 64.733 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064990.D

Acq: 9 Dec 2020 00:39

Instrument :

MSVOA_N

ClientSampleId :

CRT012

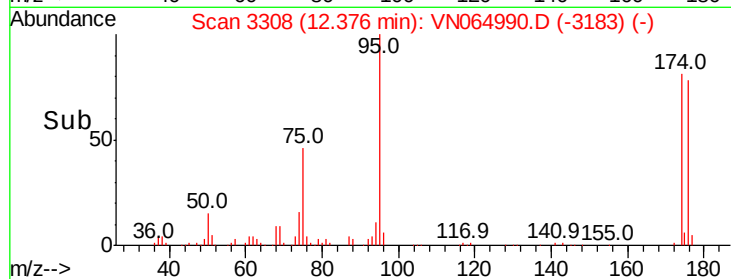
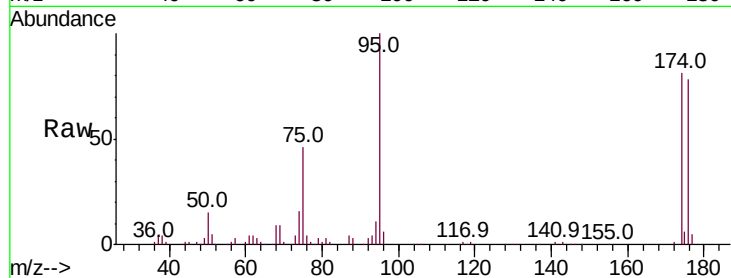
Tot Ion: 75 Resp: 70885

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

