

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064358.D
 Acq On : 28 Oct 2020 17:32
 Operator : JC/MD
 Sample : L4527-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 26414-26215

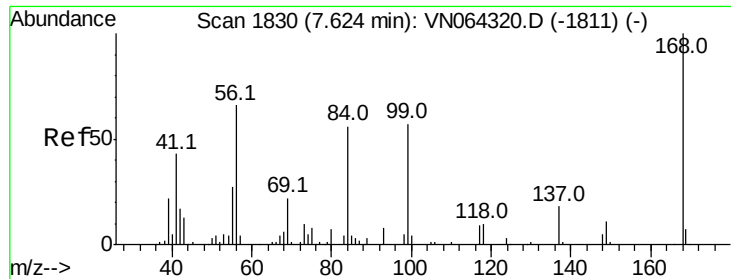
Quant Time: Oct 29 02:43:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	245344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	427310	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	424742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176849	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	194262	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	7.55	113	143899	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	10.06	98	534634	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	12.38	95	227078	55.26	ug/l	0.00
Spiked Amount			Recovery	=	110.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.33	56	36	17.949	ug/l #	81
16) Acetone	3.78	43	36319	20.270	ug/l	96
18) Methyl Acetate	4.28	43	3790	1.280	ug/l	96
20) Methylene Chloride	4.50	84	8360	2.990	ug/l	88
25) 2-Butanone	6.78	43	2965	1.498	ug/l #	84
29) Tetrahydrofuran	7.16	42	756	0.588	ug/l #	63
31) Cyclohexane	7.63	56	6010	1.313	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	20928	4.853	ug/l #	52
38) Carbon Tetrachloride	7.62	117	28679	5.736	ug/l #	17
41) Methacrylonitrile	7.17	41	458	0.212	ug/l #	35
43) Isopropyl Acetate	8.13	43	86370	11.599	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1358	0.422	ug/l #	44
48) Methyl methacrylate	9.14	41	4268	1.111	ug/l #	15
49) 1,4-Dioxane	9.18	88	30	0.530	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	7976	1.843	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	31159	5.744	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	3077	0.603	ug/l #	46
59) 2-Hexanone	10.74	43	58142	18.238	ug/l #	51
74) N-amyl acetate	12.00	43	4661	0.799	ug/l #	53
76) 1,2,3-Trichloropropane	12.37	75	122299	28.878	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	122299	83.183	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.89	180	107	2.050	ug/l #	27
95) Naphthalene	15.11	128	285	2.420	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	67	2.202	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

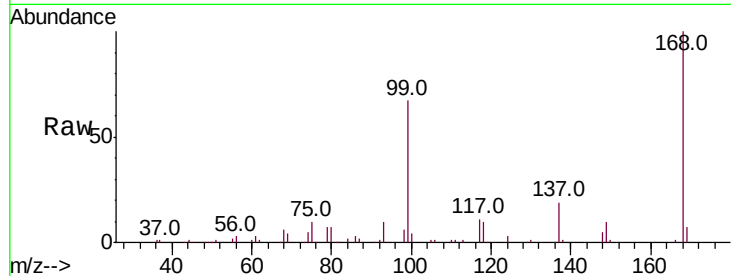
26414-26215

Tot Ion:168 Resp: 245344

Ion Ratio Lower Upper

168 100

99 67.1 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

100000

80000

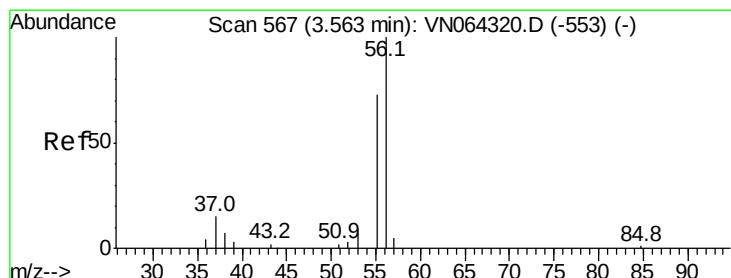
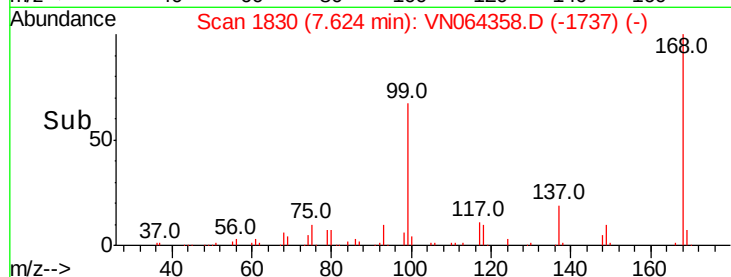
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 17.949 ug/l

RT: 3.33 min Scan# 496

Delta R.T. -0.23 min

Lab File: VN064358.D

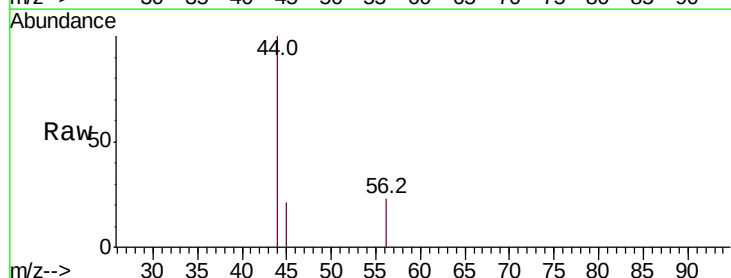
Acq: 28 Oct 2020 17:32

Tgt Ion: 56 Resp: 36

Ion Ratio Lower Upper

56 100

55 94.4 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.33

200

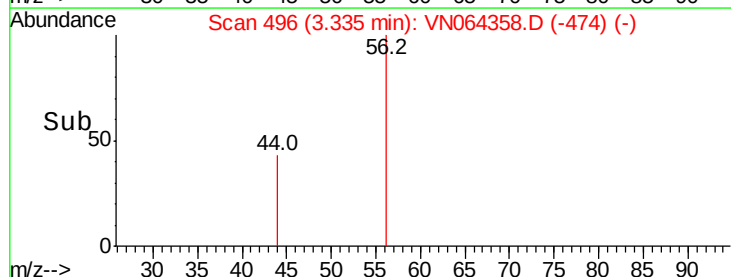
150

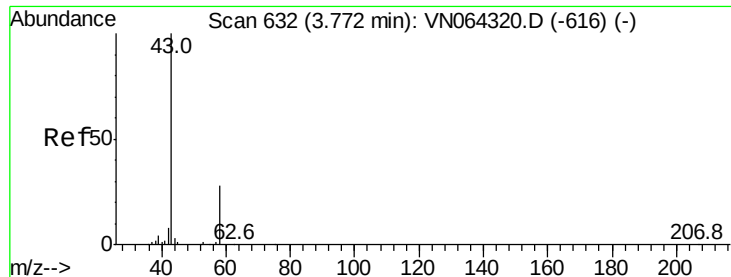
100

50

0

Time--> 3.33 3.33 3.34 3.34 3.35





#16

Acetone

Concen: 20.270 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

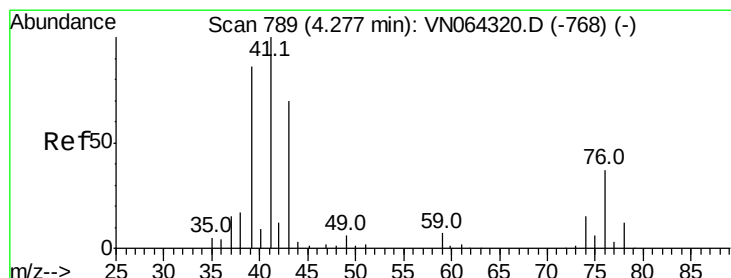
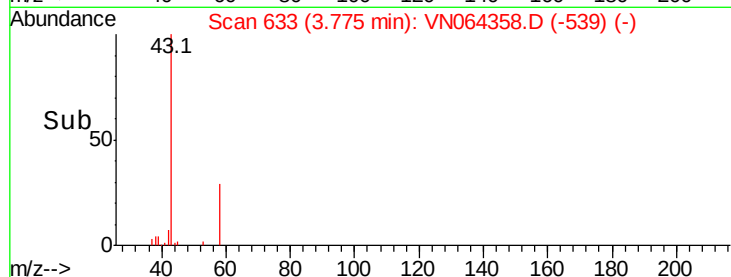
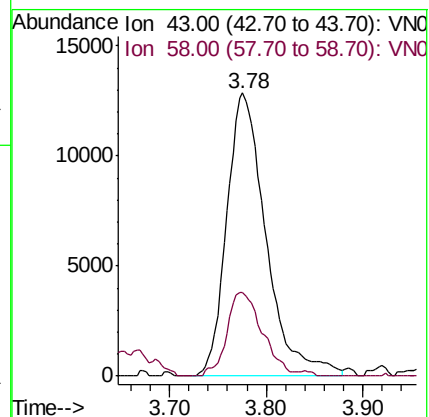
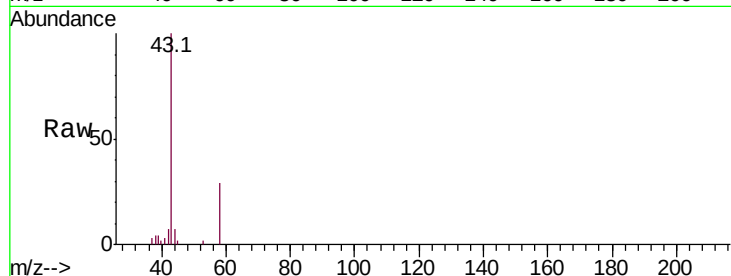
26414-26215

Tot Ion: 43 Resp: 36319

Ion Ratio Lower Upper

43 100

58 29.5 22.1 33.1



#18

Methyl Acetate

Concen: 1.280 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN064358.D

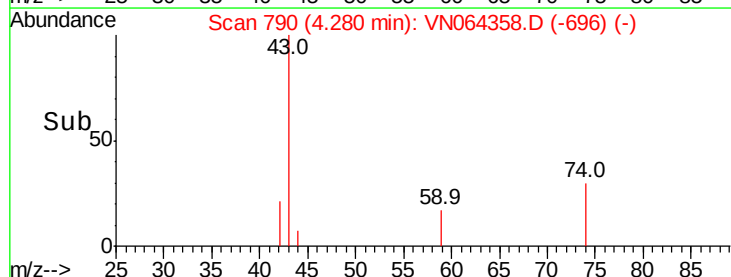
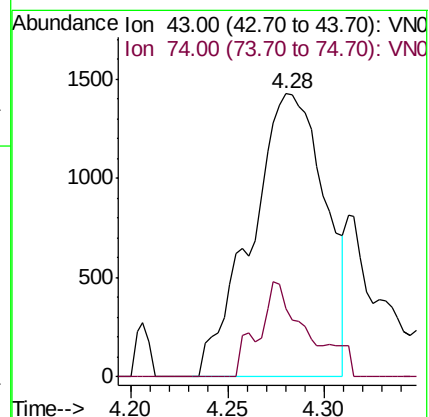
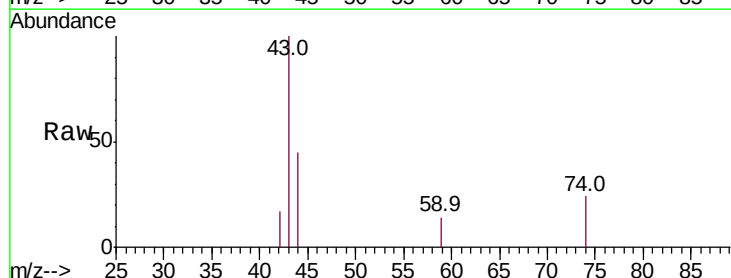
Acq: 28 Oct 2020 17:32

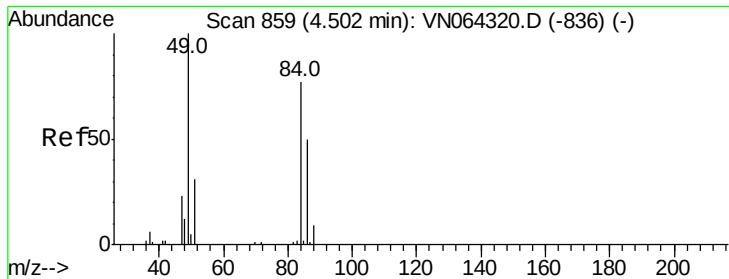
Tgt Ion: 43 Resp: 3790

Ion Ratio Lower Upper

43 100

74 19.1 16.7 25.1

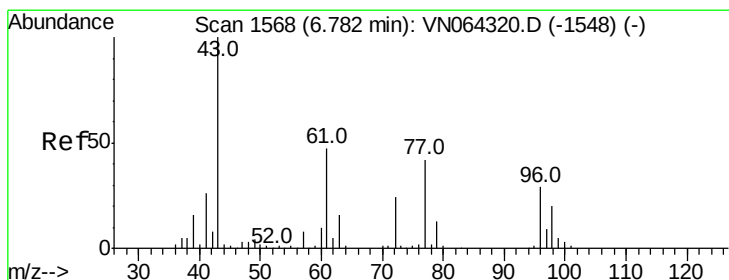
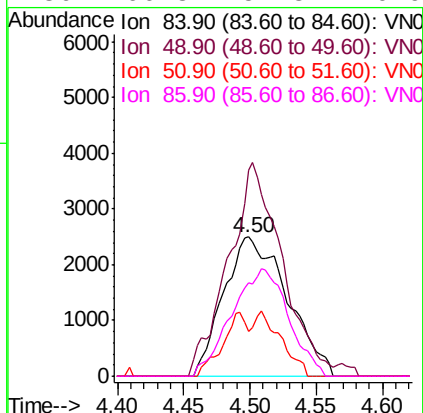
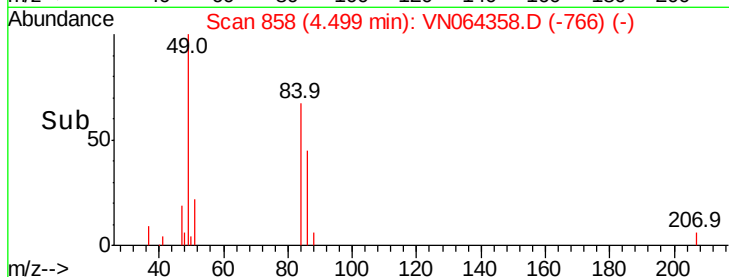
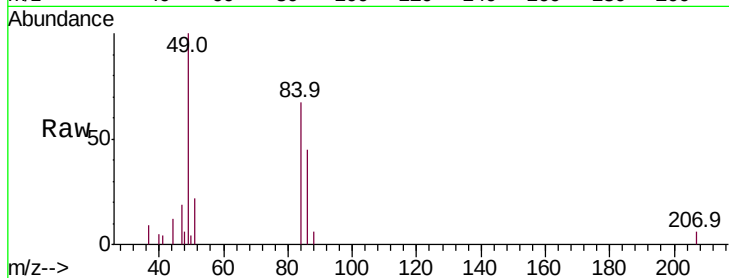




#20
Methylene Chloride
Concen: 2.990 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN064358.D
Acq: 28 Oct 2020 17:32

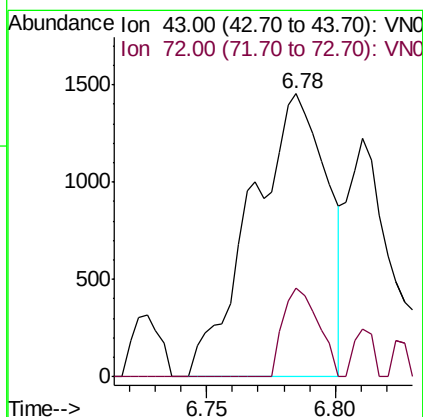
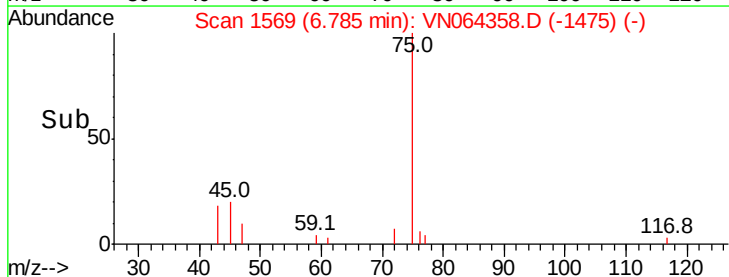
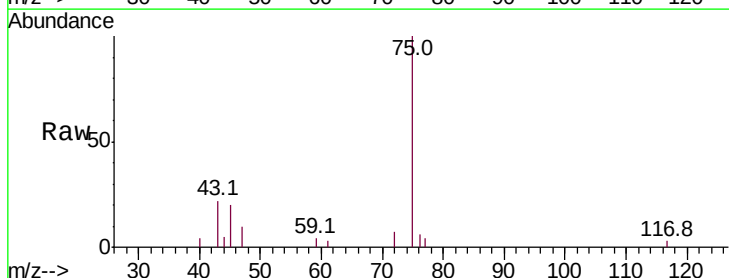
Instrument :
MSVOA_N
ClientSampleId :
26414-26215

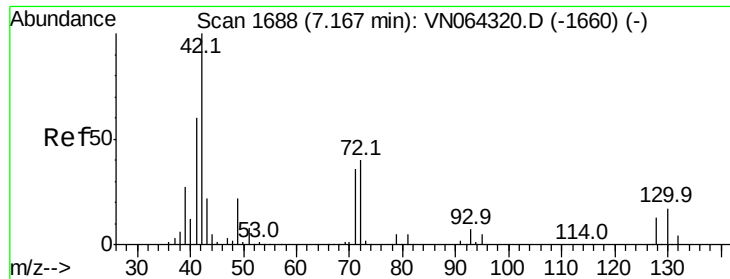
Tot Ion: 84 Resp: 8360
Ion Ratio Lower Upper
84 100
49 148.3 103.6 155.4
51 32.1 31.8 47.8
86 66.8 51.3 76.9



#25
2-Butanone
Concen: 1.498 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN064358.D
Acq: 28 Oct 2020 17:32

Tgt Ion: 43 Resp: 2965
Ion Ratio Lower Upper
43 100
72 31.3 18.8 28.2#





#29

Tetrahydrofuran

Concen: 0.588 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

26414-26215

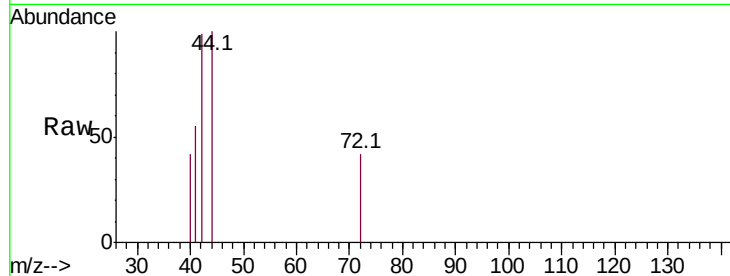
Tot Ion: 42 Resp: 756

Ion Ratio Lower Upper

42 100

72 20.8 31.6 47.4#

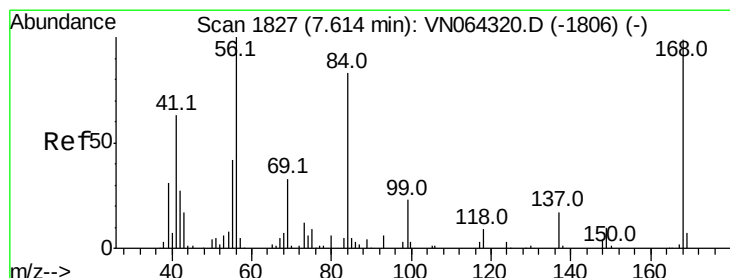
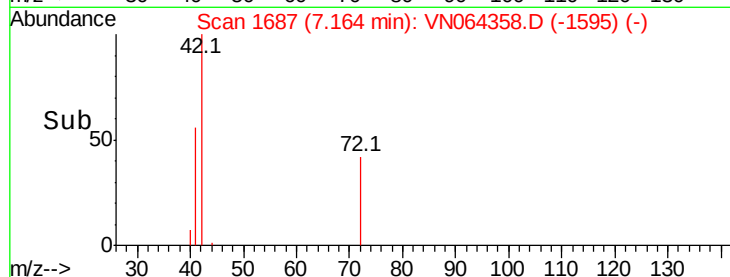
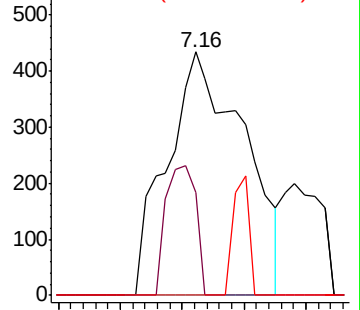
71 10.1 29.4 44.0#



Abundance Ion 42.00 (41.70 to 42.70): VN064320.D (-1660) (-)

Ion 72.00 (71.70 to 72.70): VN064320.D (-1660) (-)

Ion 71.00 (70.70 to 71.70): VN064320.D (-1660) (-)



#31

Cyclohexane

Concen: 1.313 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

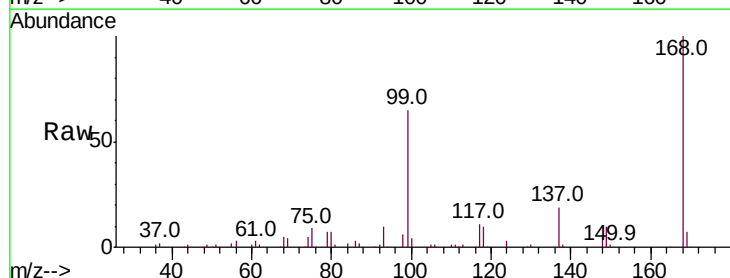
Tgt Ion: 56 Resp: 6010

Ion Ratio Lower Upper

56 100

69 152.9 25.8 38.8#

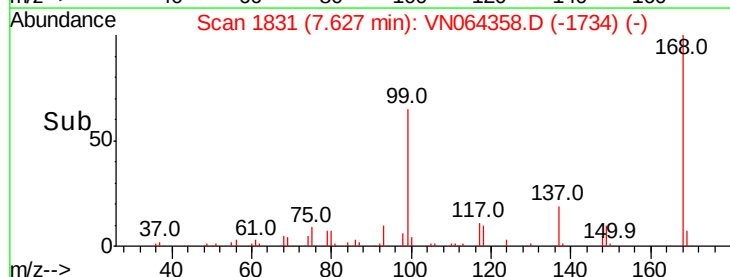
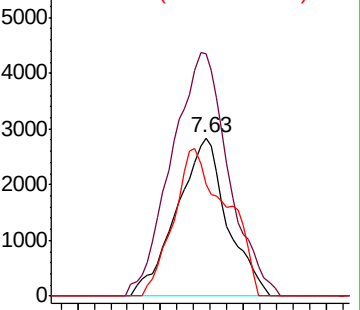
84 70.6 66.3 99.5

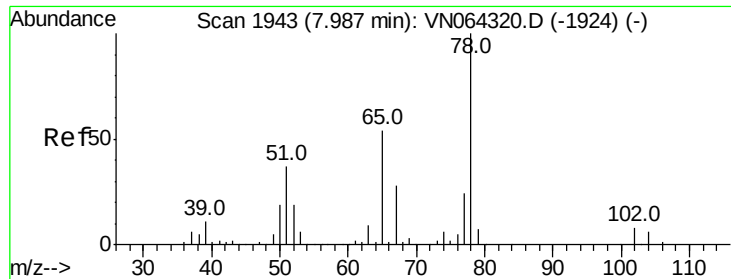


Abundance Ion 56.00 (55.70 to 56.70): VN064320.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN064320.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN064320.D (-1806) (-)

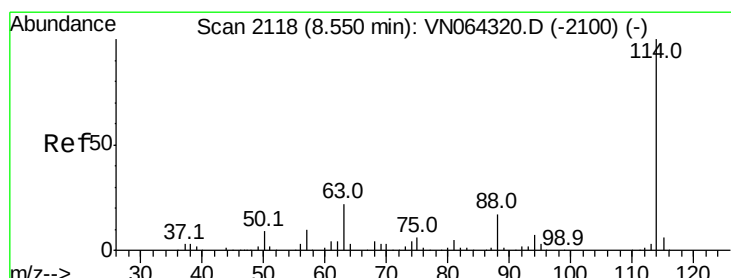
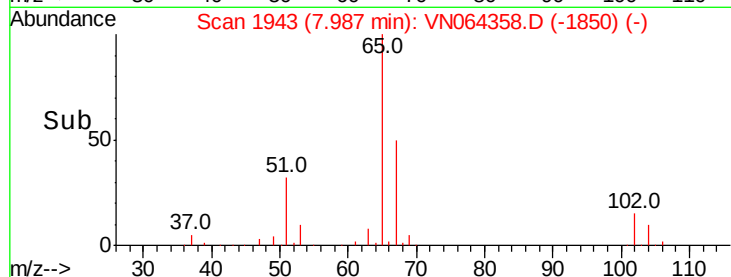
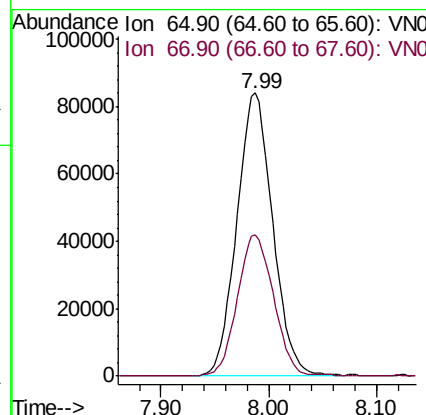
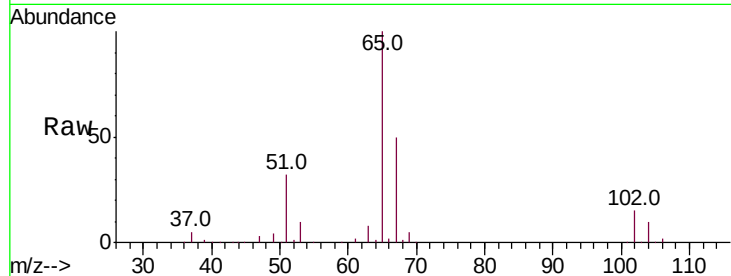




#33
 1,2-Dichloroethane-d4
 Concen: 49.272 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064358.D
 Acq: 28 Oct 2020 17:32

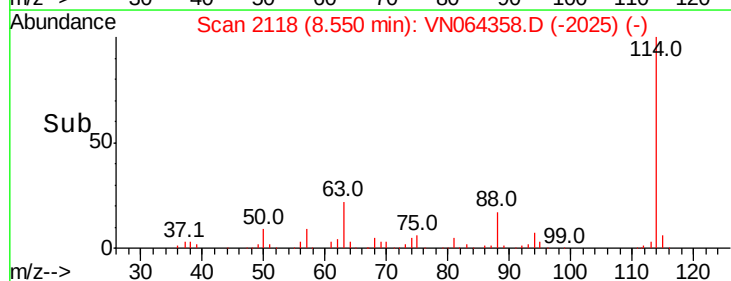
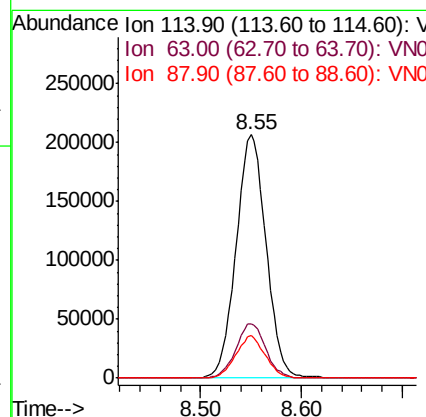
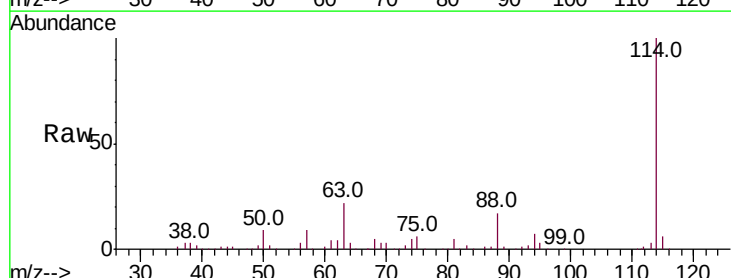
Instrument :
 MSVOA_N
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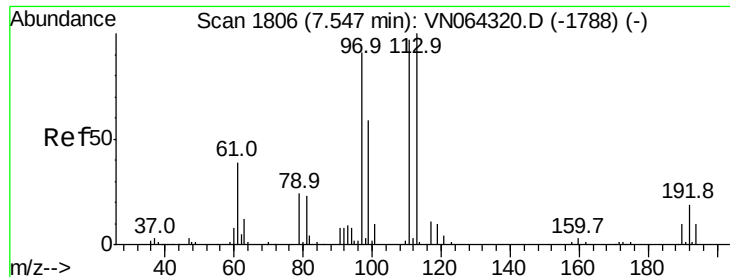
Tot Ion: 65 Resp: 194262
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064358.D
 Acq: 28 Oct 2020 17:32

Tgt Ion: 114 Resp: 427310
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.6
 88 17.4 0.0 33.4

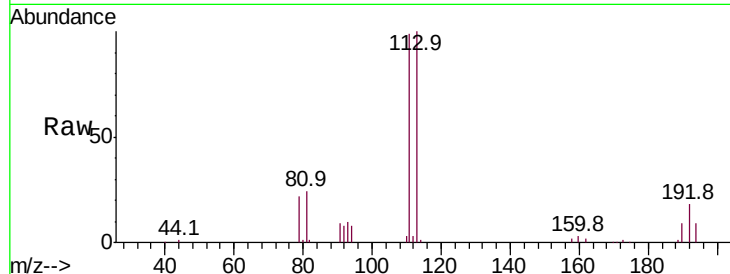




#35
 Dibromofluoromethane
 Concen: 50.498 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064358.D
 Acq: 28 Oct 2020 17:32

Instrument :
 MSVOA_N
 ClientSampleId :
 26414-26215

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.5	122.3
192	18.3	15.0	22.4

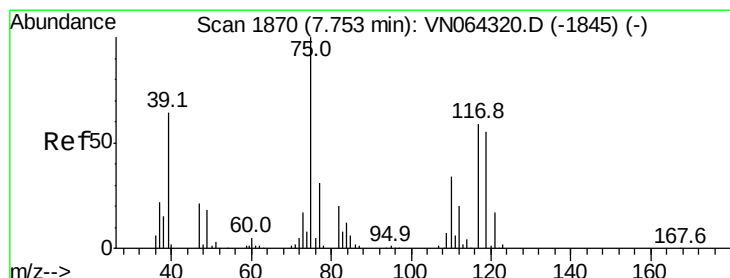
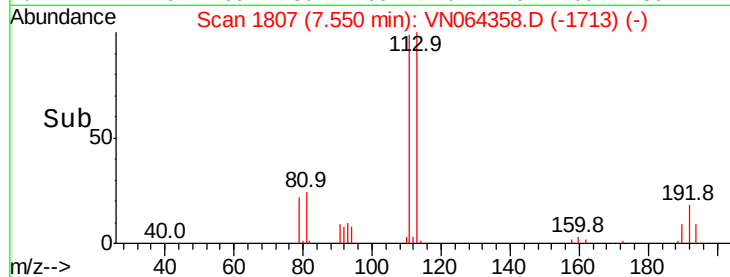
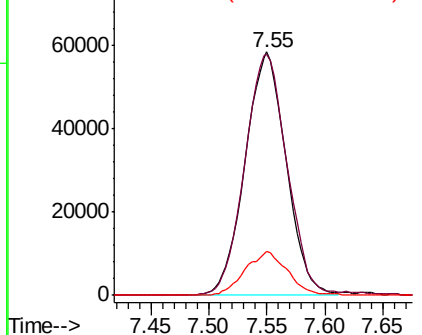


Abundance

Ion 112.80 (112.50 to 113.50): V

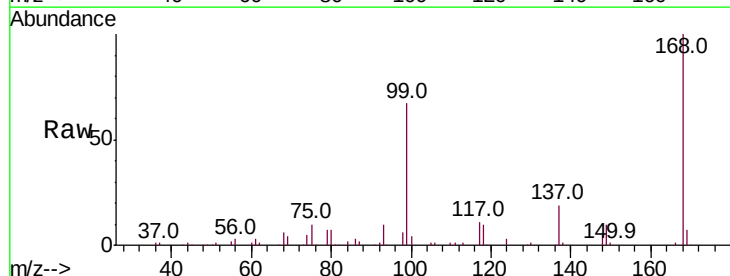
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.853 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064358.D
 Acq: 28 Oct 2020 17:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	16.8	50.3#
77	0.0	24.2	36.4#

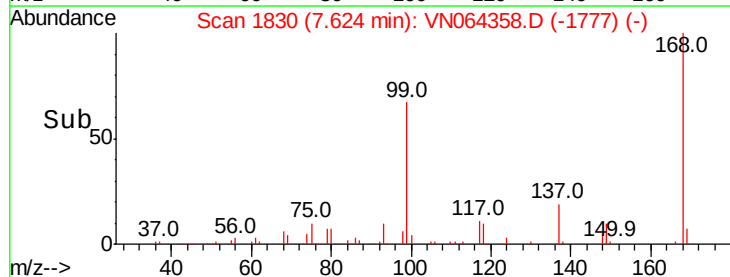
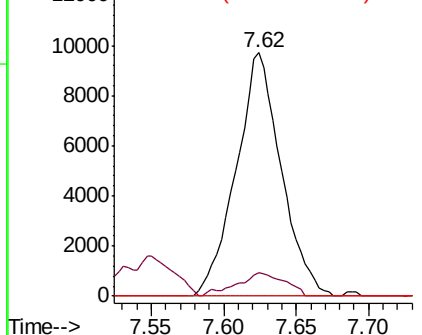


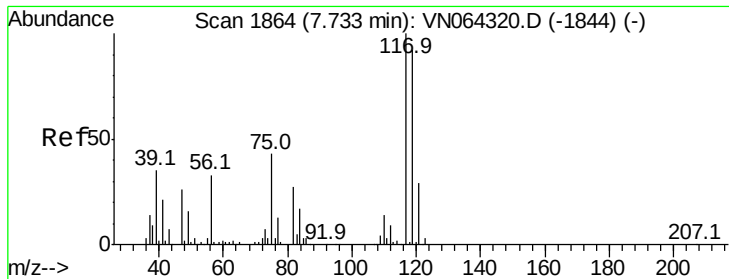
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.736 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampled :

26414-26215

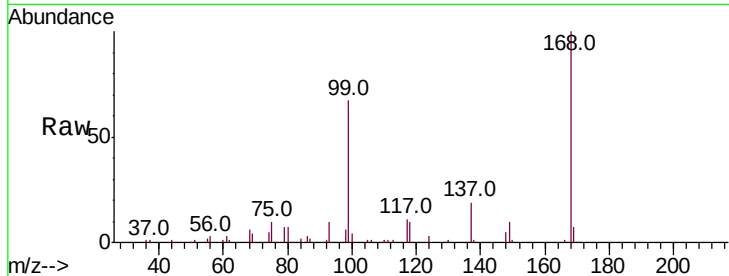
Tot Ion:117 Resp: 28679

Ion Ratio Lower Upper

117 100

119 3.9 73.7 110.5#

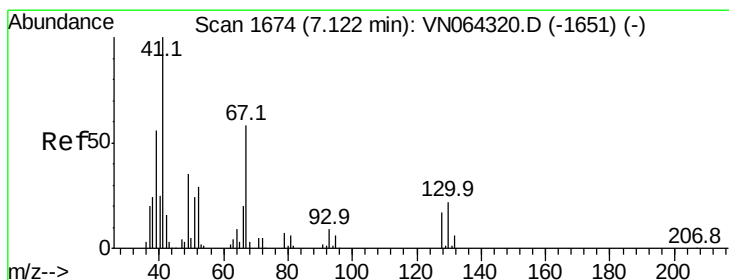
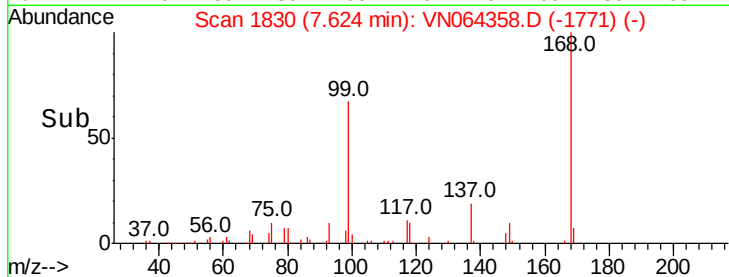
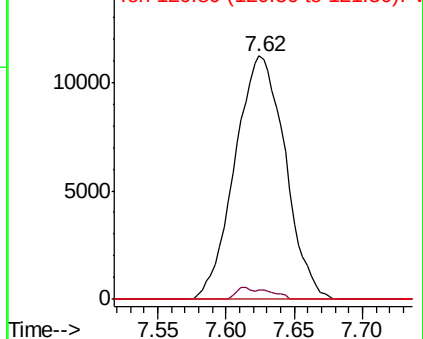
121 0.0 22.8 34.2#



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



#41

Methacrylonitrile

Concen: 0.212 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.05 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Tgt Ion: 41 Resp: 458

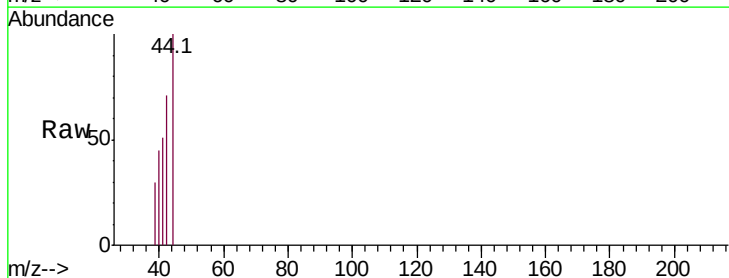
Ion Ratio Lower Upper

41 100

39 32.5 48.6 72.8#

67 0.0 61.4 92.2#

52 0.0 27.6 41.4#

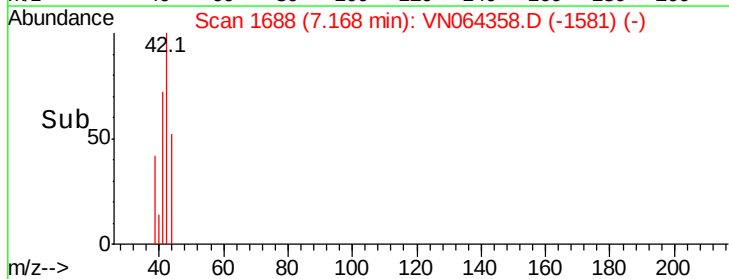
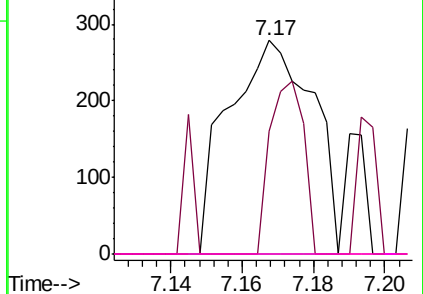


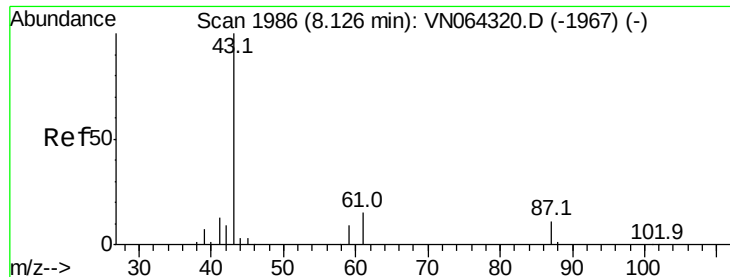
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 11.599 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

26414-26215

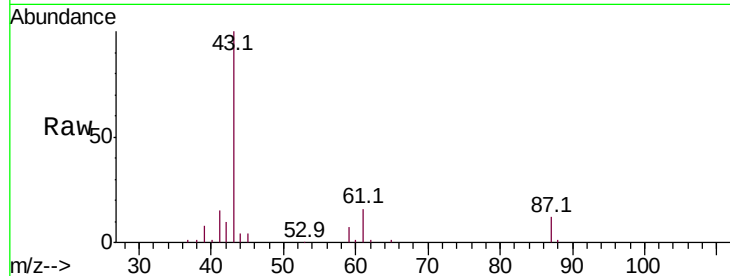
Tot Ion: 43 Resp: 86370

Ion Ratio Lower Upper

43 100

61 17.0 19.1 28.7#

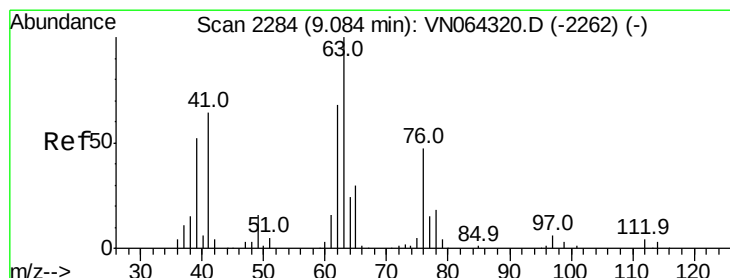
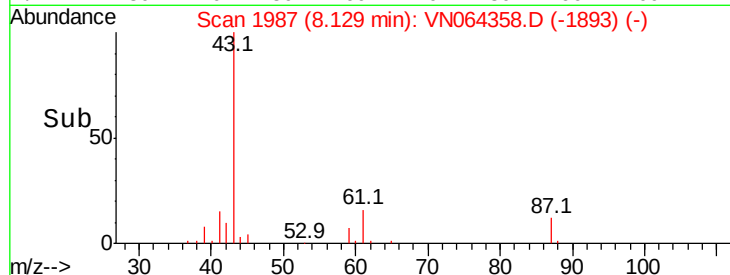
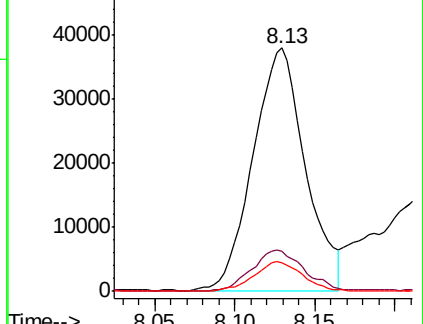
87 11.2 9.3 13.9



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: 0.422 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064358.D

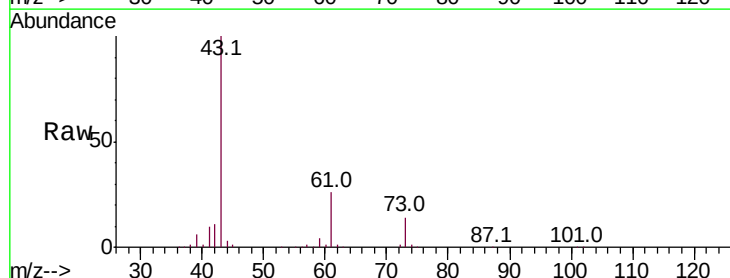
Acq: 28 Oct 2020 17:32

Tgt Ion: 63 Resp: 1358

Ion Ratio Lower Upper

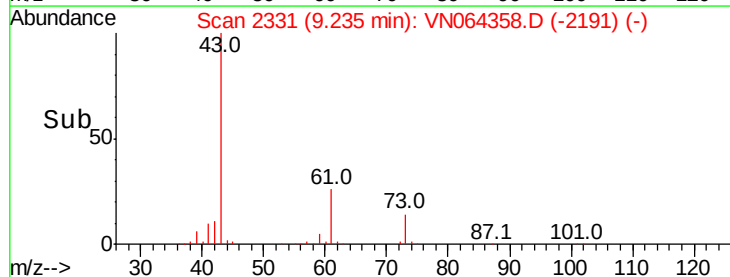
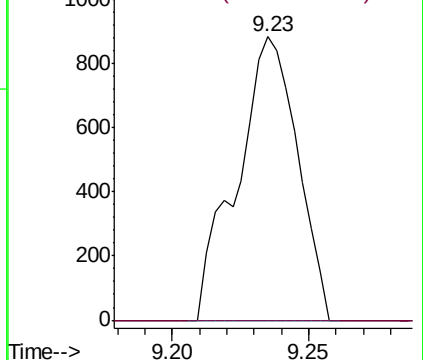
63 100

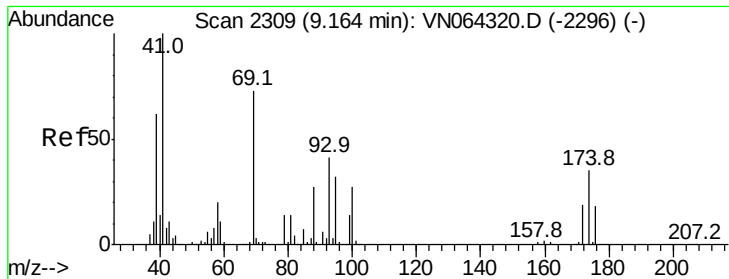
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

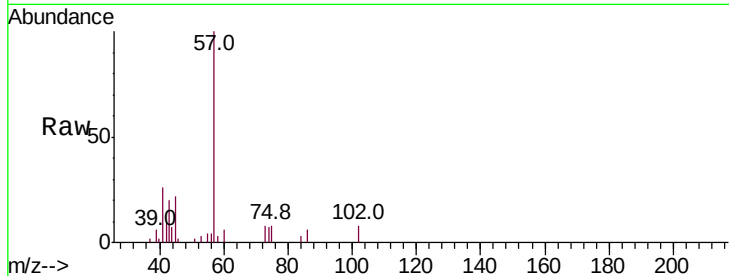




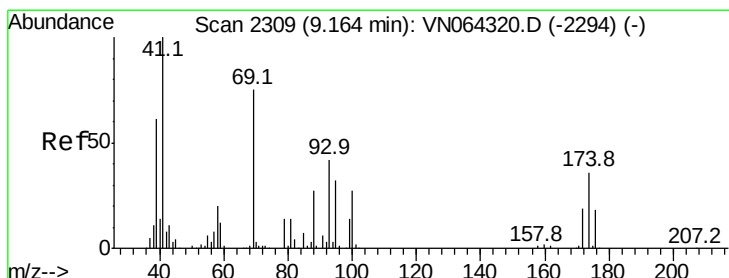
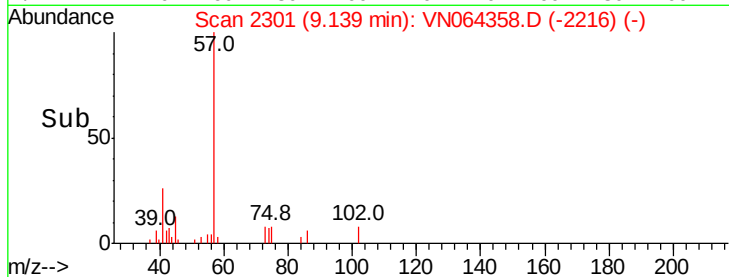
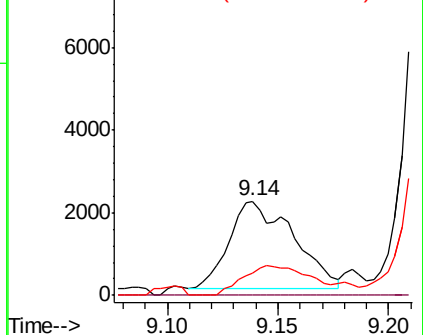
#48
Methvl methacrylate
Concen: 1.111 ug/l
RT: 9.14 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN064358.D
Acq: 28 Oct 2020 17:32

Instrument :
MSVOA_N
ClientSampleId :
26414-26215

Tot Ion: 41 Resp: 4268
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 51.3 76.9#

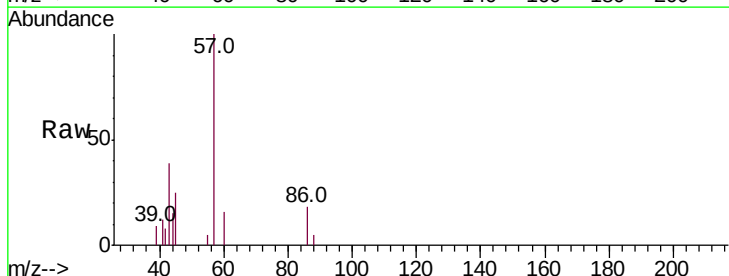


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

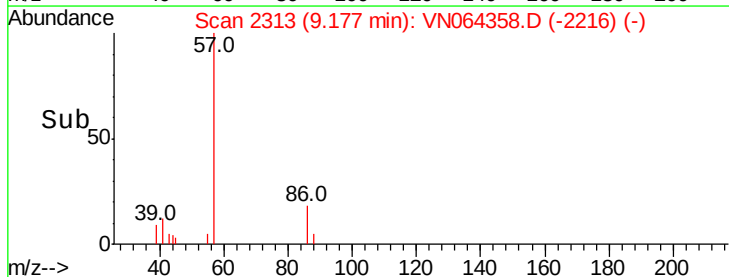
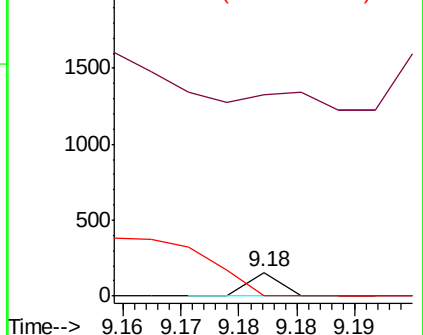


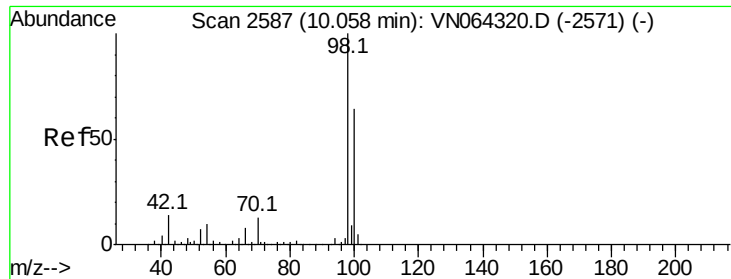
#49
1,4-Dioxane
Concen: 0.530 ug/l
RT: 9.18 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN064358.D
Acq: 28 Oct 2020 17:32

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 31.8 47.8#
58 0.0 60.3 90.5#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 50.722 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

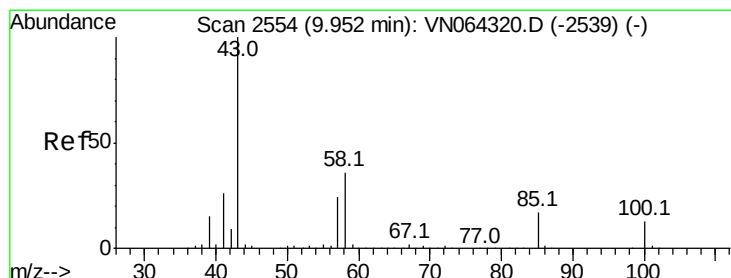
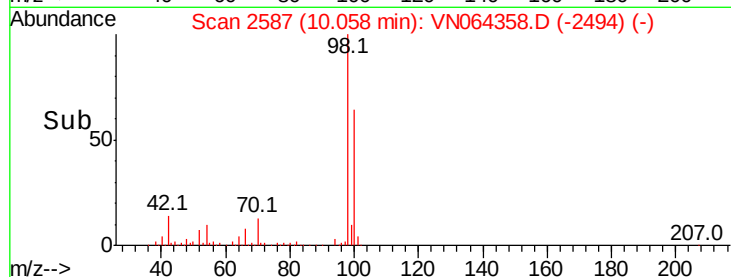
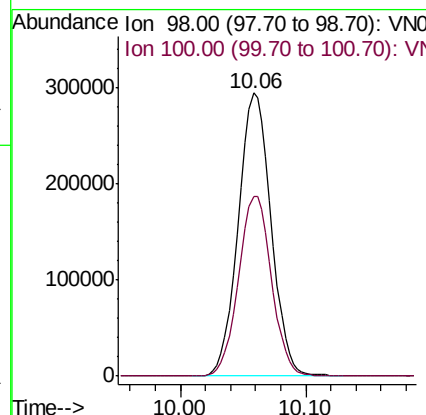
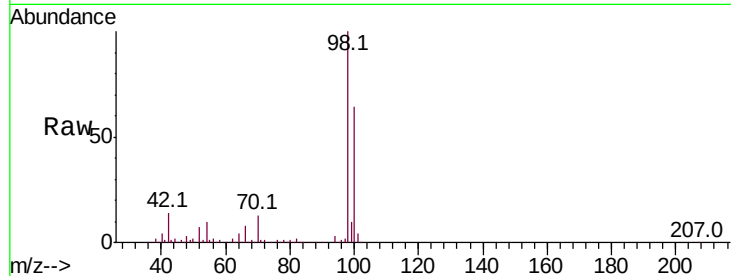
26414-26215

Tot Ion: 98 Resp: 534634

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.843 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064358.D

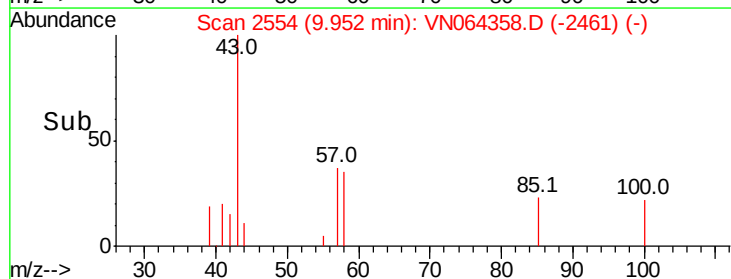
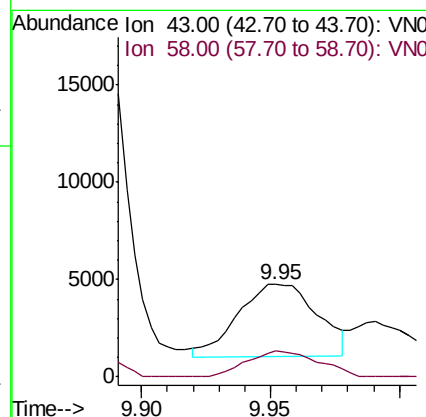
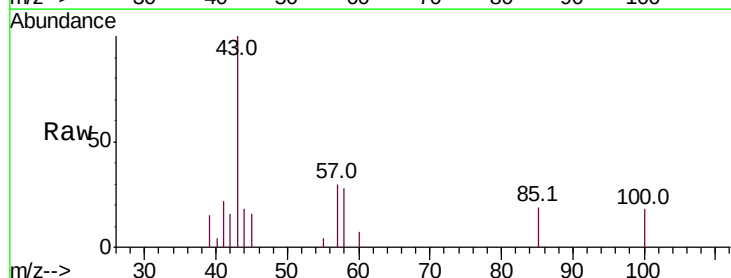
Acq: 28 Oct 2020 17:32

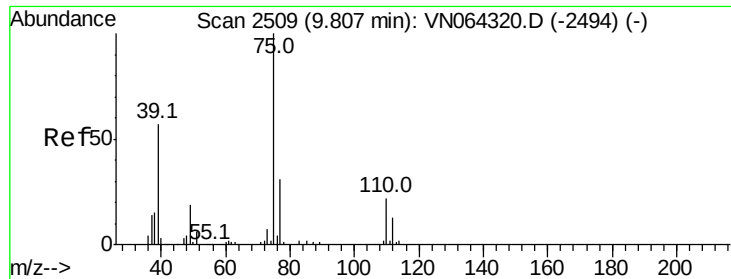
Tgt Ion: 43 Resp: 7976

Ion Ratio Lower Upper

43 100

58 32.3 28.6 42.8





#54

cis-1,3-Dichloropropene

Concen: 5.744 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

26414-26215

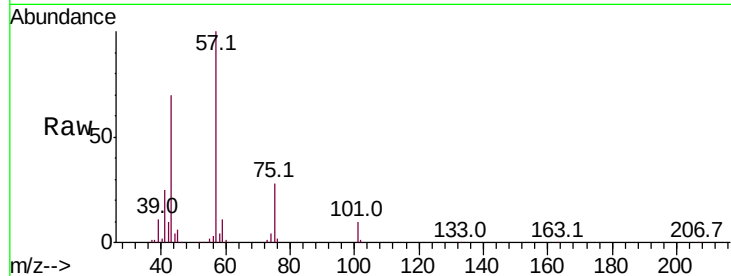
Tot Ion: 75 Resp: 31159

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

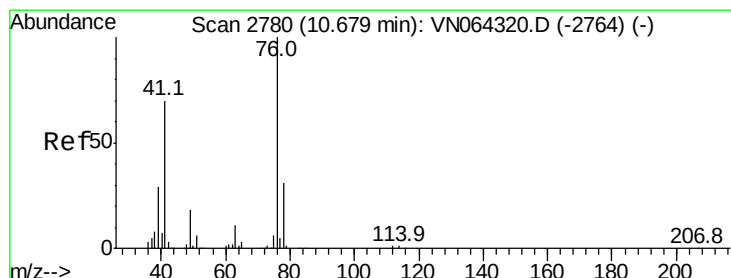
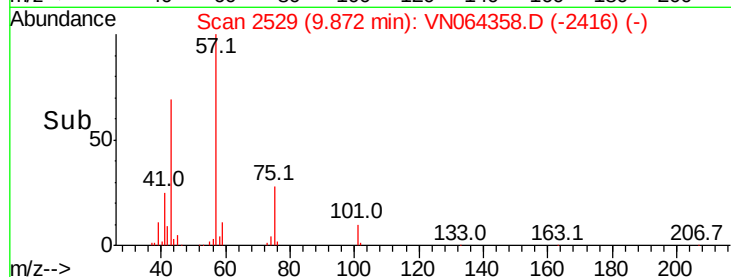
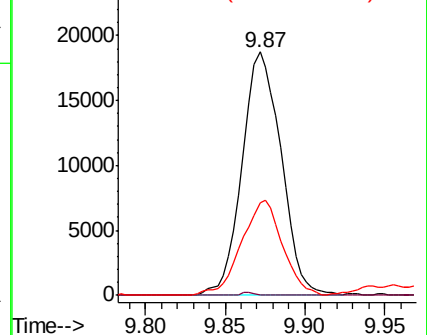
39 37.8 45.5 68.3#



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: 0.603 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064358.D

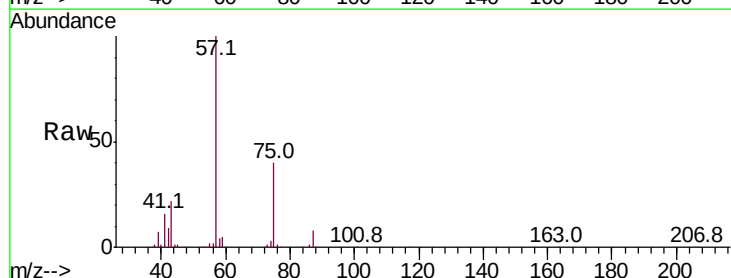
Acq: 28 Oct 2020 17:32

Tgt Ion: 76 Resp: 3077

Ion Ratio Lower Upper

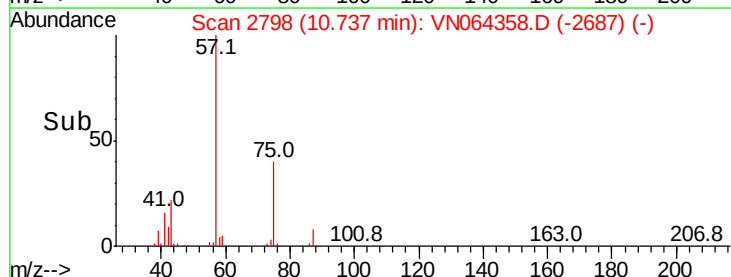
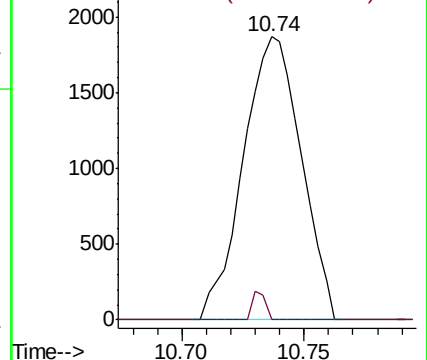
76 100

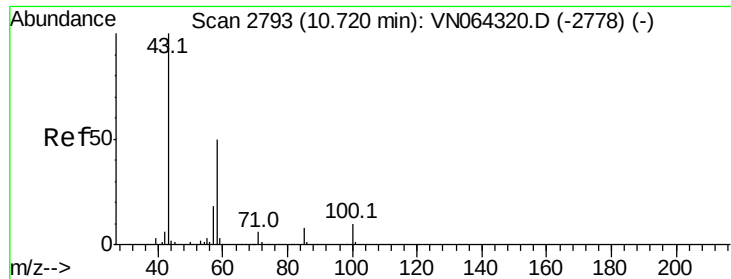
78 2.2 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 18.238 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

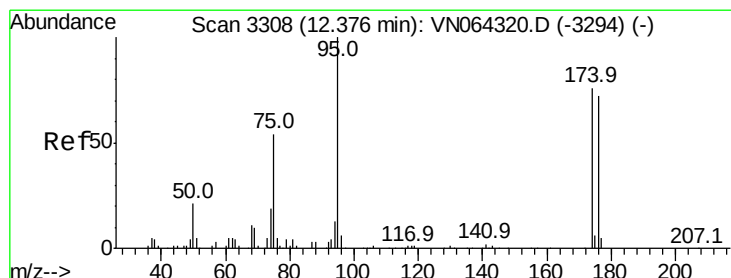
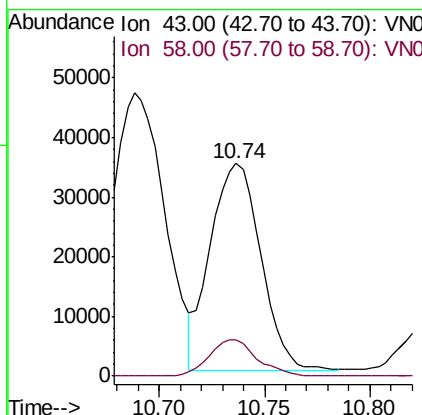
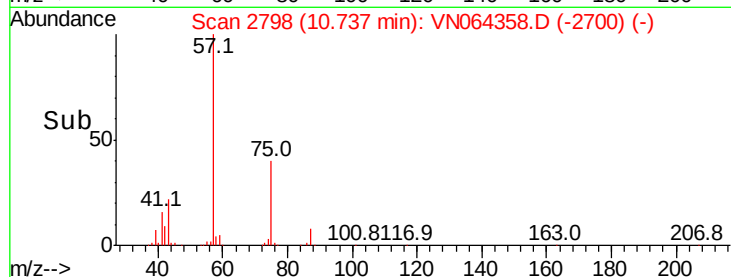
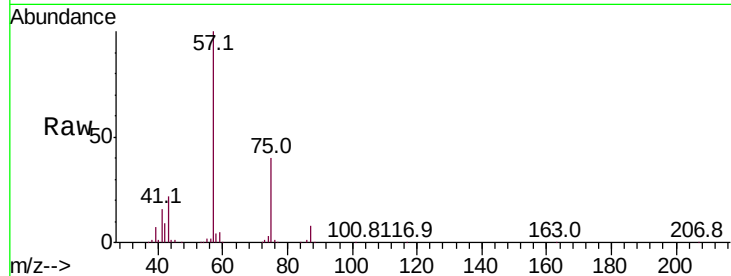
26414-26215

Tot Ion: 43 Resp: 58142

Ion Ratio Lower Upper

43 100

58 16.6 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 55.255 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

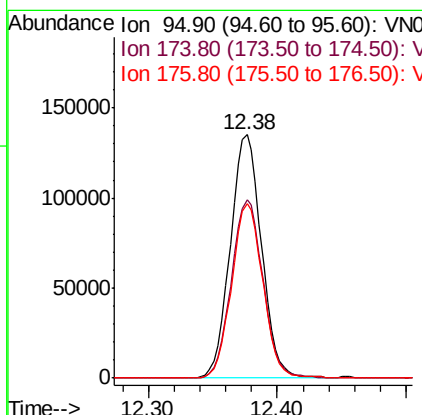
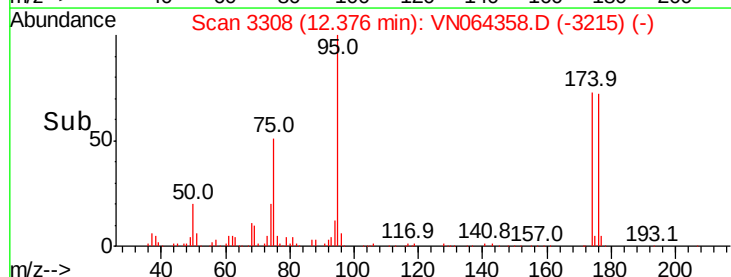
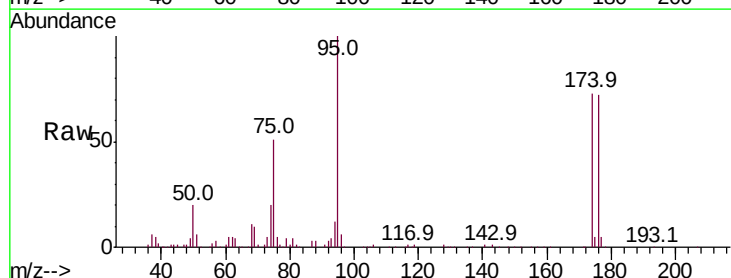
Tgt Ion: 95 Resp: 227078

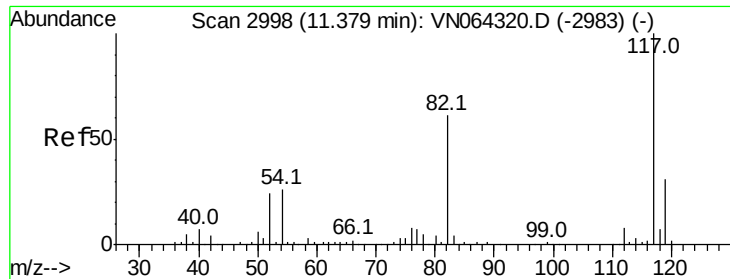
Ion Ratio Lower Upper

95 100

174 74.2 0.0 147.4

176 71.6 0.0 143.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

26414-26215

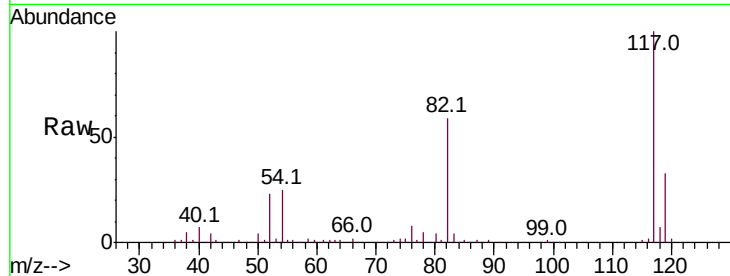
Tot Ion:117 Resp: 424742

Ion Ratio Lower Upper

117 100

82 58.8 48.8 73.2

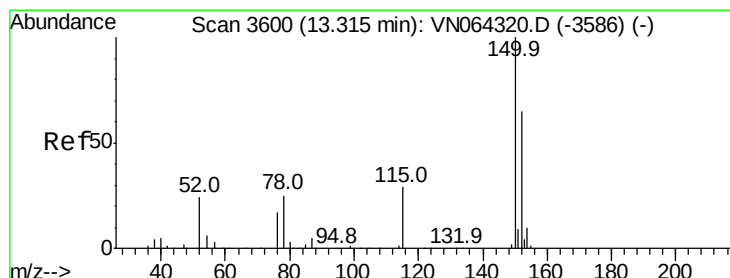
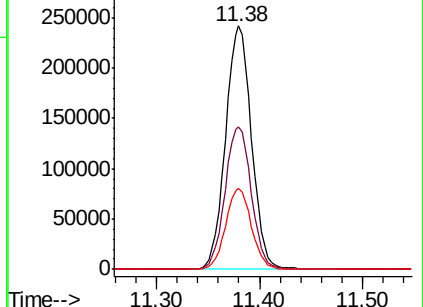
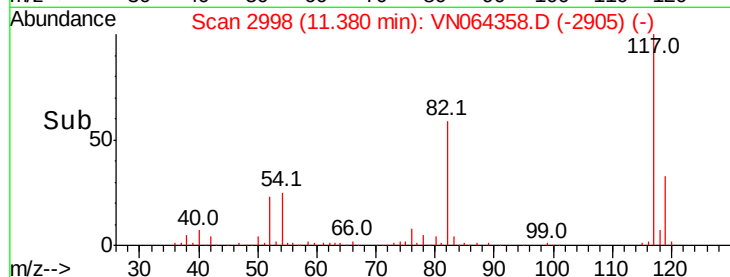
119 33.3 25.1 37.7



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: VN064358.D

Acq: 28 Oct 2020 17:32

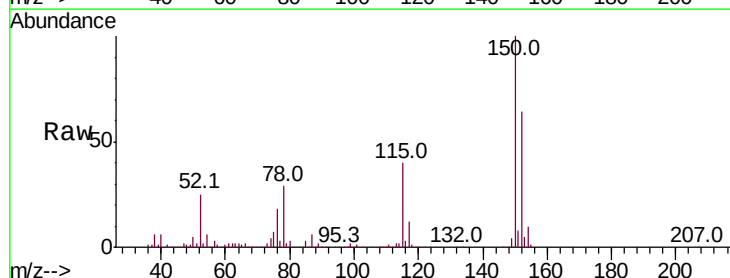
Tgt Ion:152 Resp: 176849

Ion Ratio Lower Upper

152 100

115 63.6 31.5 94.5

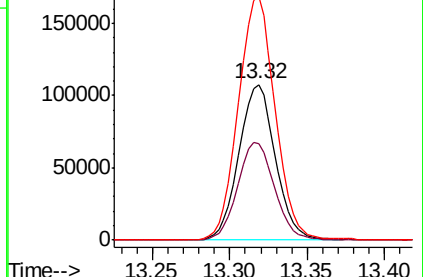
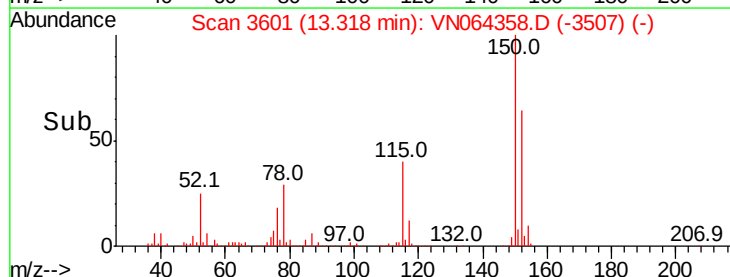
150 157.2 0.0 346.2

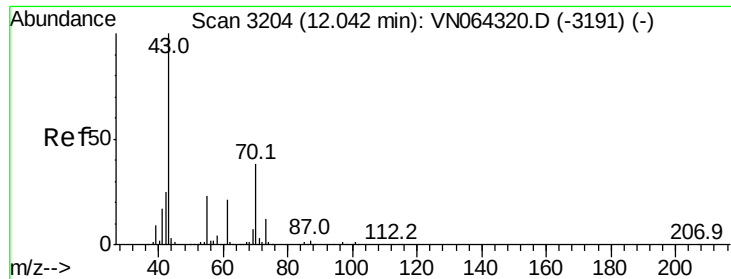


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.799 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

26414-26215

Tot Ion: 43 Resp: 4661

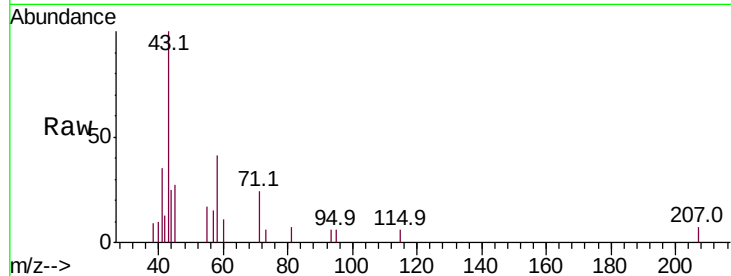
Ion Ratio Lower Upper

43 100

70 1.3 30.6 45.8#

55 10.5 18.2 27.4#

61 0.0 17.6 26.4#

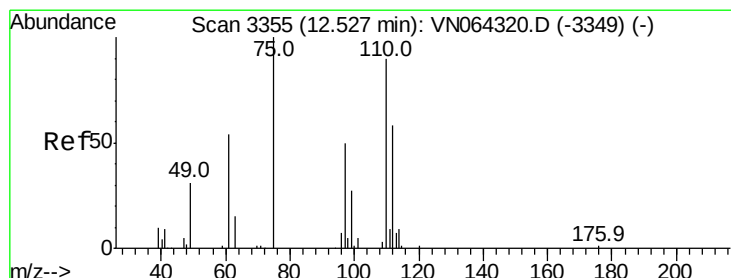
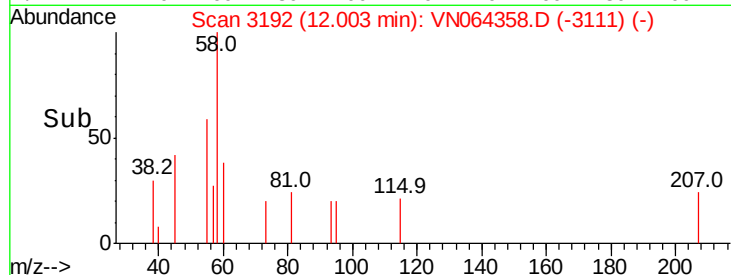
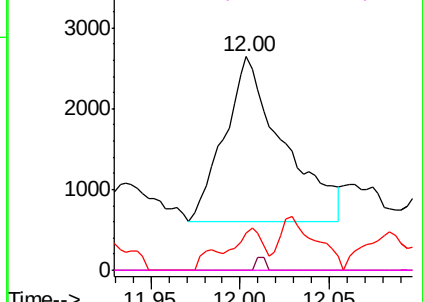


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.878 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064358.D

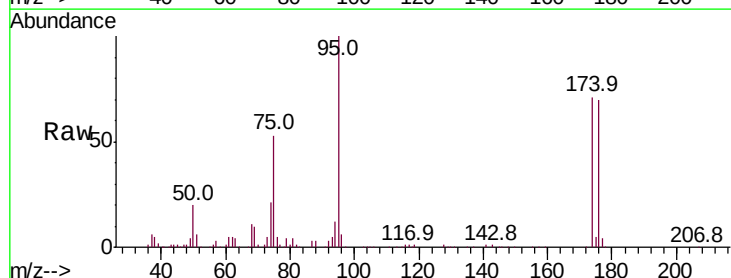
Acq: 28 Oct 2020 17:32

Tgt Ion: 75 Resp: 122299

Ion Ratio Lower Upper

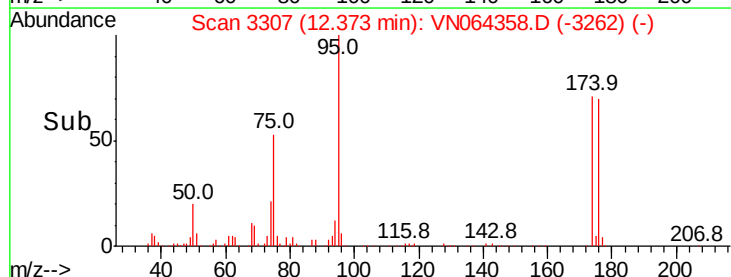
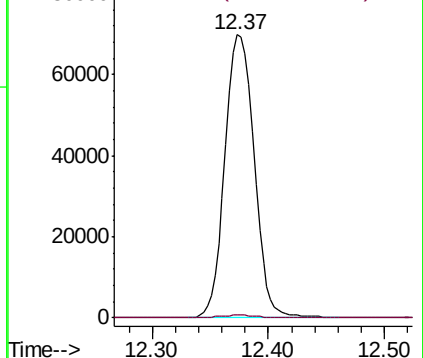
75 100

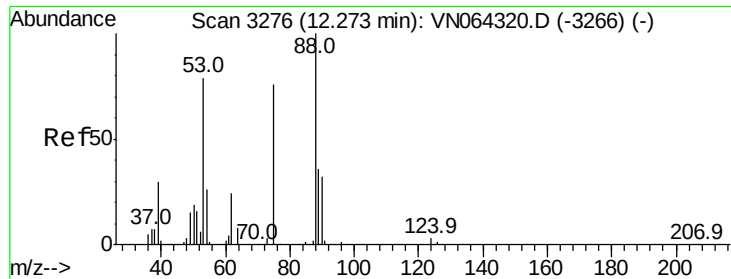
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

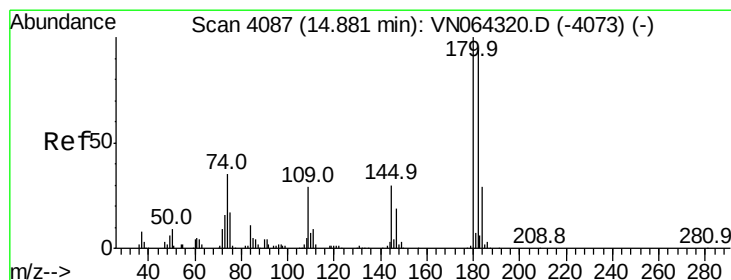
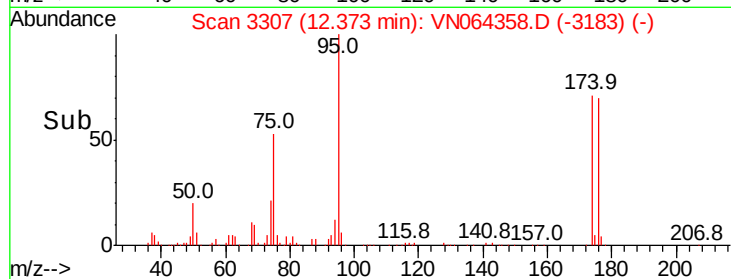
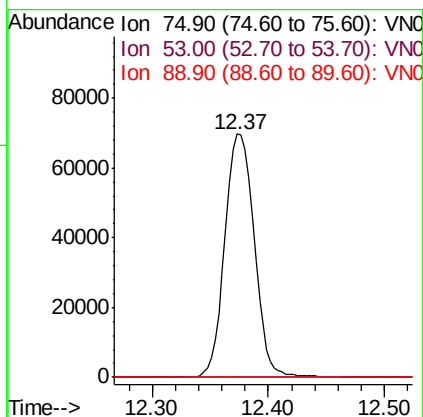
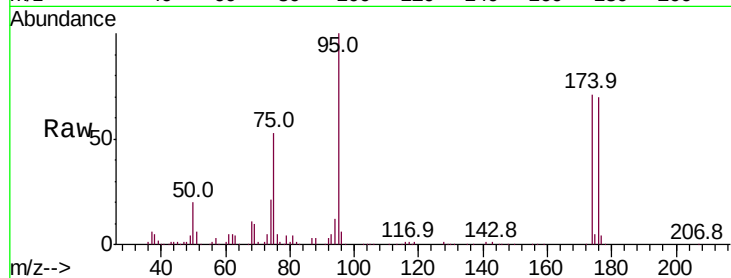




#81
trans-1,4-Dichloro-2-butene
Concen: 83.183 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN064358.D
Acq: 28 Oct 2020 17:32

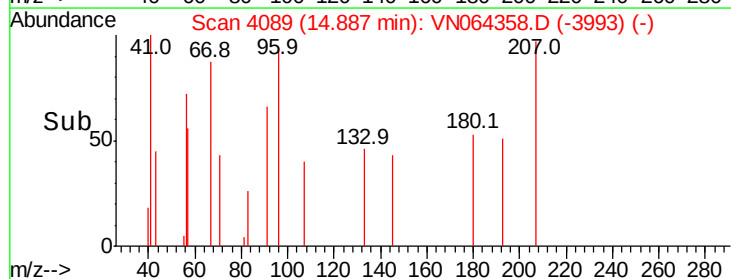
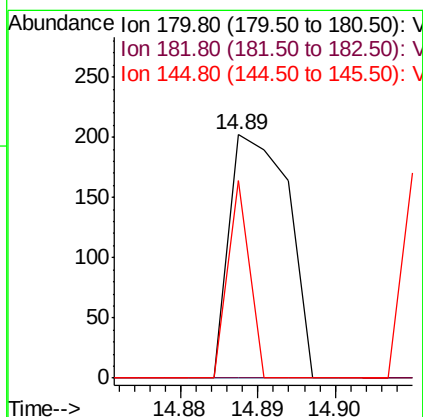
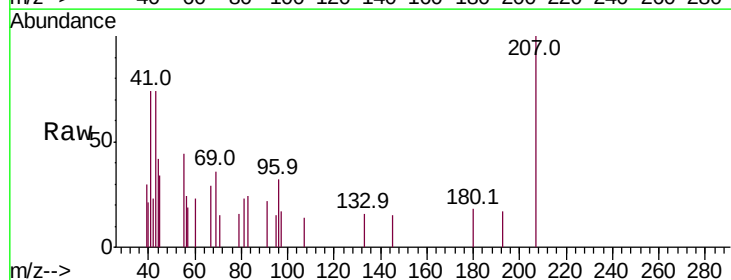
Instrument :
MSVOA_N
ClientSampleId :
26414-26215

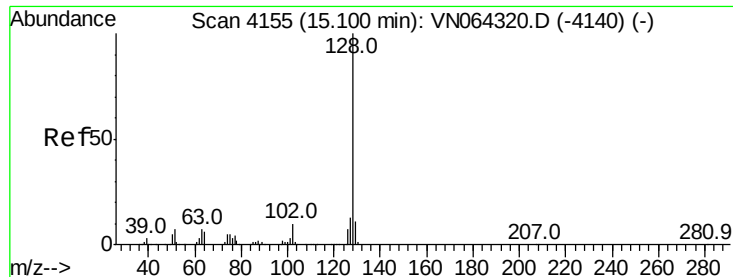
Tot Ion: 75 Resp: 122299
Ion Ratio Lower Upper
75 100
53 0.0 81.8 122.8#
89 0.0 39.9 59.9#



#93
1,2,4-Trichlorobenzene
Concen: 2.050 ug/l
RT: 14.89 min Scan# 4089
Delta R.T. 0.01 min
Lab File: VN064358.D
Acq: 28 Oct 2020 17:32

Tgt Ion: 180 Resp: 107
Ion Ratio Lower Upper
180 100
182 0.0 46.6 139.7#
145 29.9 15.3 45.9





#95

Naphthalene

Concen: 2.420 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

Instrument :

MSVOA_N

ClientSampleId :

26414-26215

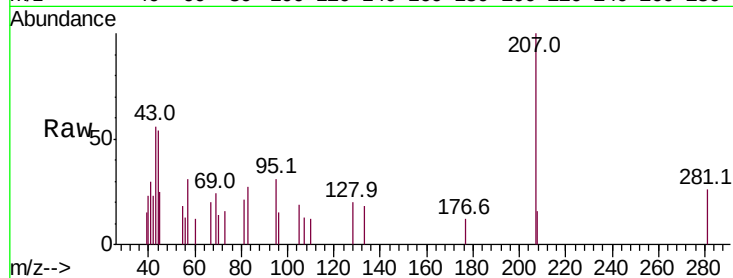
Tot Ion:128 Resp: 285

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

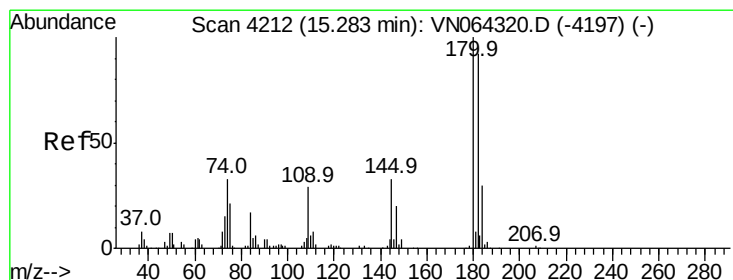
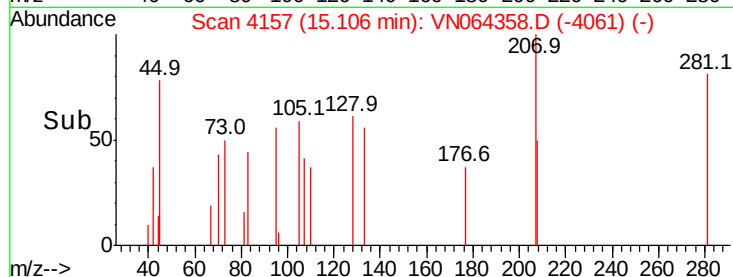
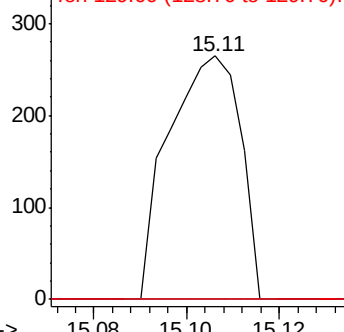
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.202 ug/l

RT: 15.32 min Scan# 4222

Delta R.T. 0.03 min

Lab File: VN064358.D

Acq: 28 Oct 2020 17:32

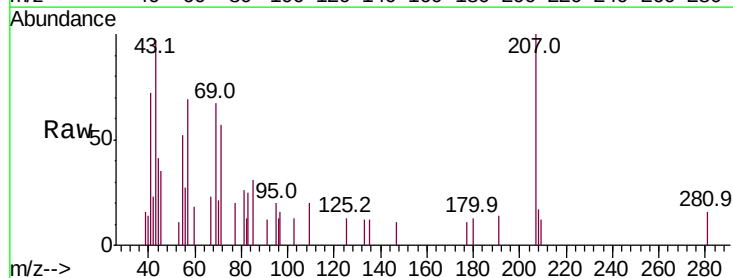
Tgt Ion:180 Resp: 67

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 100.0 16.2 48.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

