

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111920\
 Data File : VN064770.D
 Acq On : 20 Nov 2020 9:07
 Operator : JC/MD
 Sample : L4779-05 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1555

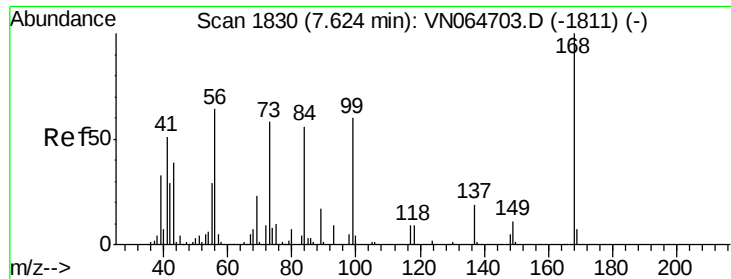
Quant Time: Nov 20 13:46:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	216476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	444149	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	488684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	222484	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	215839	56.68	ug/l	0.00
Spiked Amount			Recovery	=	113.36%	
35) Dibromofluoromethane	7.55	113	153008	60.53	ug/l	0.00
Spiked Amount			Recovery	=	121.06%	
50) Toluene-d8	10.06	98	590522	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	12.37	95	258272	60.14	ug/l	0.00
Spiked Amount			Recovery	=	120.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	275	0.744	ug/l #	70
13) Acrolein	3.58	56	61	0.705	ug/l #	1
16) Acetone	3.78	43	2473	7.694	ug/l	94
18) Methyl Acetate	4.29	43	443	1.489	ug/l #	54
20) Methylene Chloride	4.51	84	1257	0.446	ug/l #	84
25) 2-Butanone	6.78	43	972	0.668	ug/l #	51
27) cis-1,2-Dichloroethene	6.79	96	943	0.329	ug/l	67
31) Cyclohexane	7.62	56	6754	1.640	ug/l #	40
36) 1,1-Dichloropropene	7.63	75	21320	4.666	ug/l #	46
38) Carbon Tetrachloride	7.63	117	25810	5.315	ug/l #	14
44) Trichloroethene	8.81	130	1709	0.468	ug/l	76
51) 4-Methyl-2-Pentanone	9.96	43	238	6.181	ug/l #	39
52) Toluene	10.13	92	3445	0.439	ug/l	100
56) Ethyl methacrylate	10.40	69	136	2.700	ug/l #	21
59) 2-Hexanone	10.89	43	222	8.505	ug/l	98
68) m/p-Xylenes	11.59	106	1278	4.227	ug/l #	42
70) Styrene	11.95	104	63	2.542	ug/l #	1
71) Bromoform	12.10	173	68	2.468	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	145896	30.435	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	145896	77.561	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.01	105	13024	0.973	ug/l	90
93) 1,2,4-Trichlorobenzene	14.87	180	134	1.366	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

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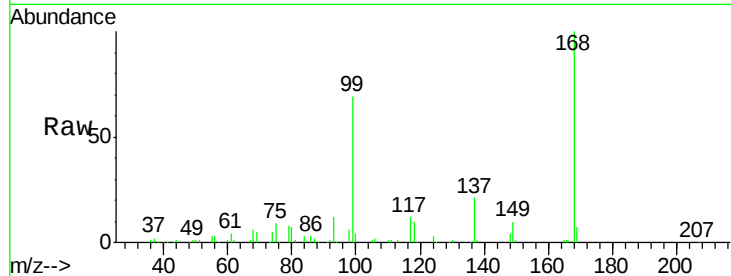
1555

Tgt Ion:168 Resp: 216476

Ion Ratio Lower Upper

168 100

99 69.3 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): VN064770.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN064770.D (-1737) (-)

7.63

100000

80000

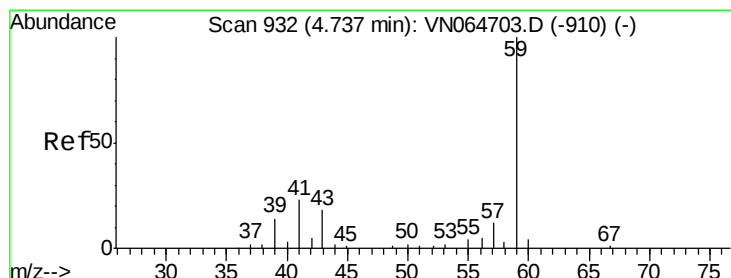
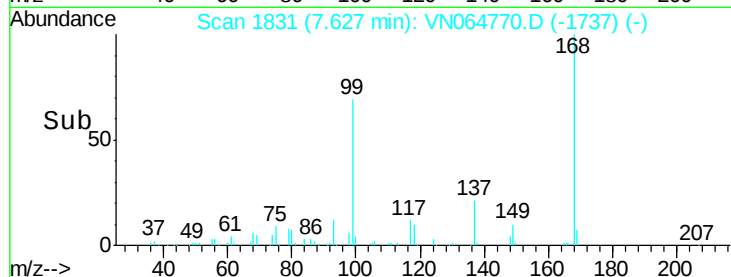
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.744 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.01 min

Lab File: VN064770.D

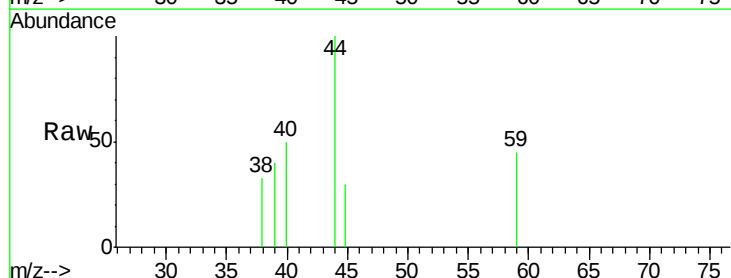
Acq: 20 Nov 2020 9:07

Tgt Ion: 59 Resp: 275

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VN064770.D (-839) (-)

Ion 57.00 (56.70 to 57.70): VN064770.D (-839) (-)

4.75

300

250

200

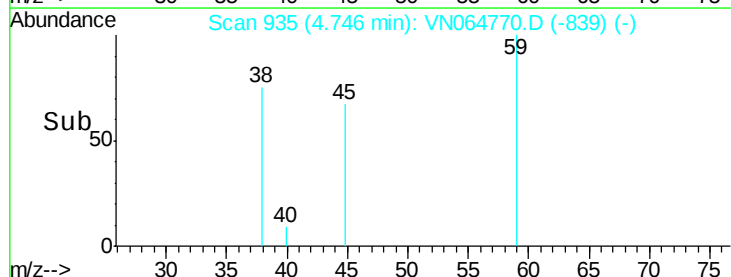
150

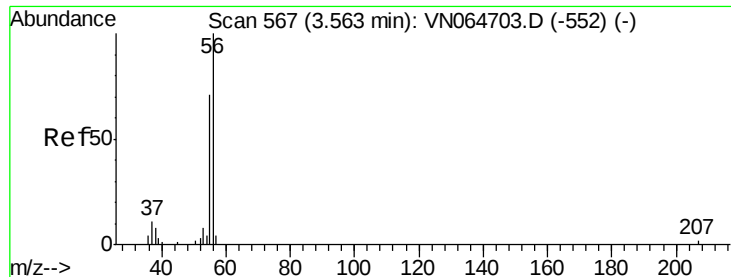
100

50

0

Time--> 4.72 4.73 4.74 4.75 4.76





#13

Acrolein

Concen: 0.705 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.02 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampleId :

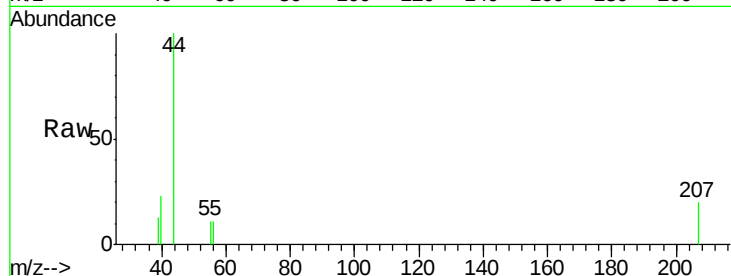
1555

Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

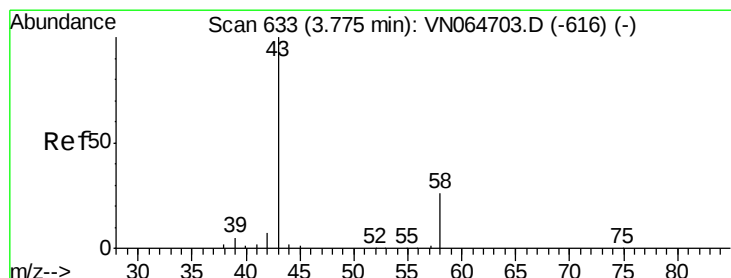
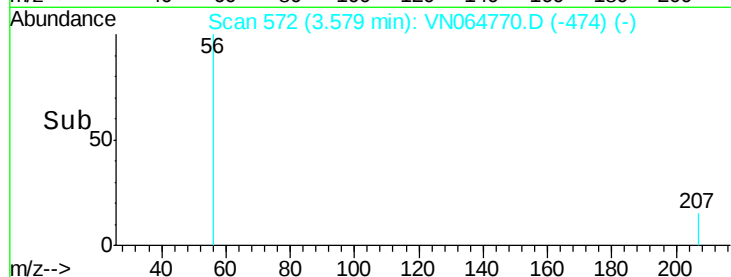
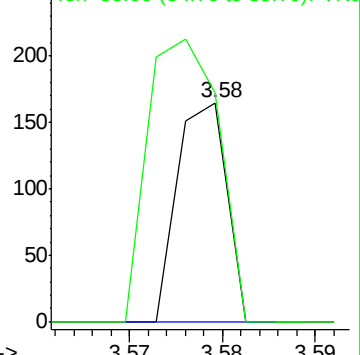
56 100

55 185.2 61.8 92.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 7.694 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064770.D

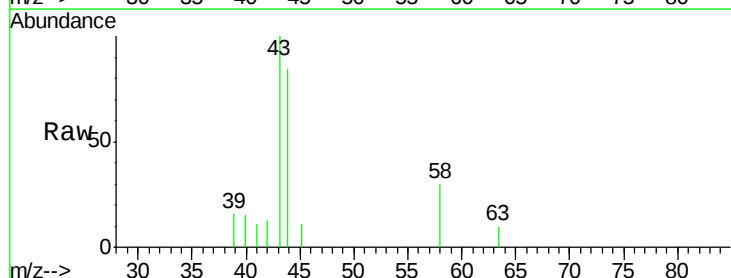
Acq: 20 Nov 2020 9:07

Tgt Ion: 43 Resp: 2473

Ion Ratio Lower Upper

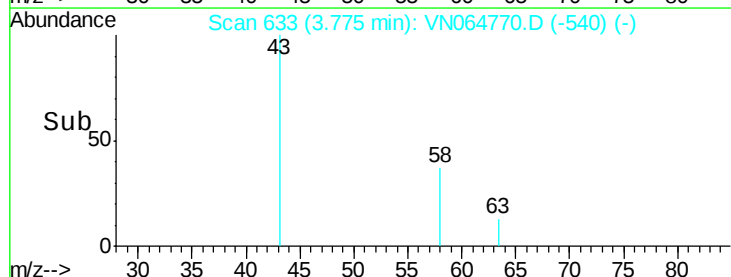
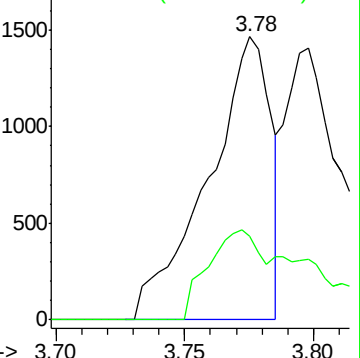
43 100

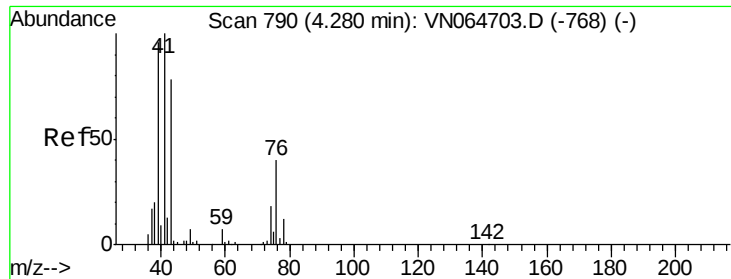
58 29.8 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

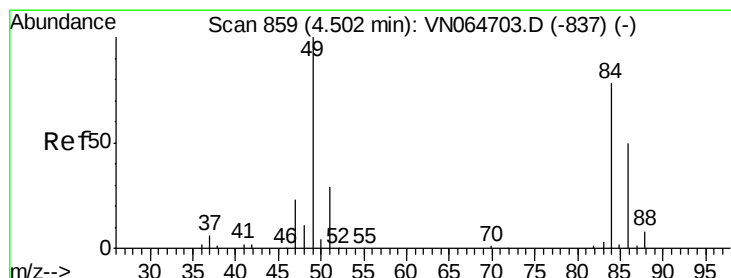
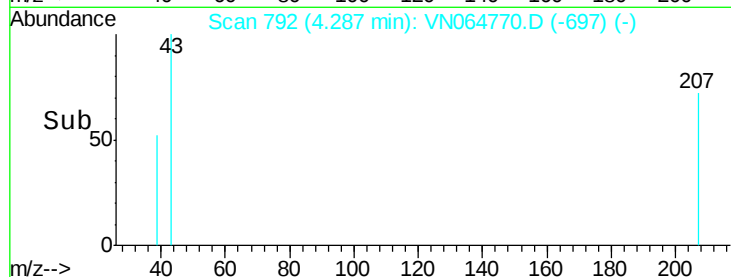
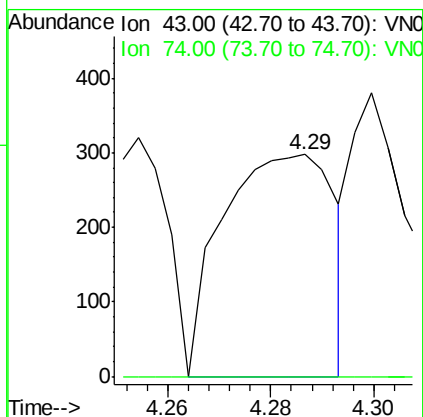
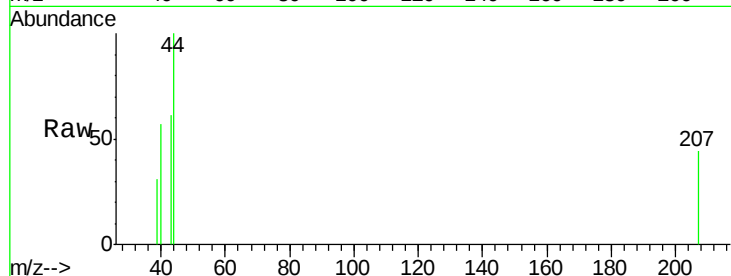




#18
Methyl Acetate
Concen: 1.489 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064770.D
Acq: 20 Nov 2020 9:07

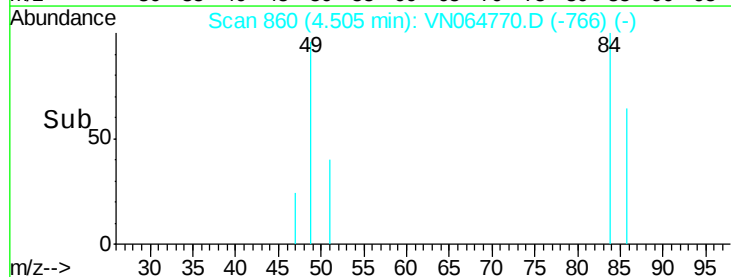
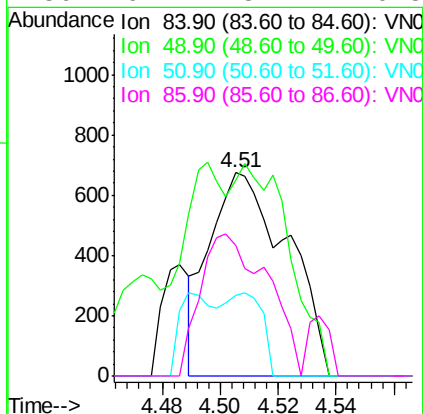
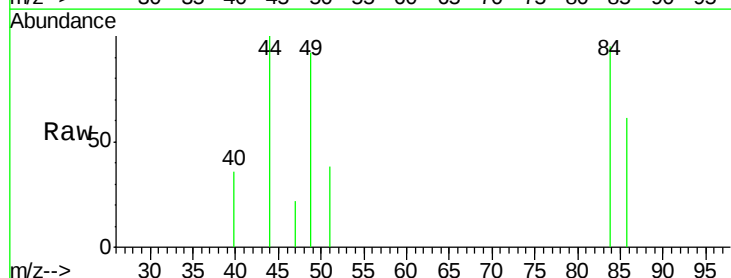
Instrument :
MSVOA_N
ClientSampleId :
1555

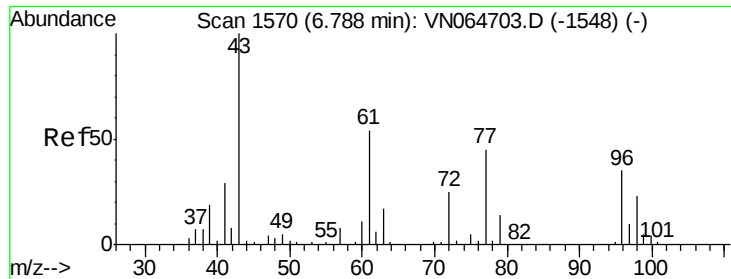
Tgt Ion: 43 Resp: 443
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 0.446 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064770.D
Acq: 20 Nov 2020 9:07

Tgt Ion: 84 Resp: 1257
Ion Ratio Lower Upper
84 100
49 96.3 102.4 153.6#
51 39.9 29.4 44.2
86 64.1 51.2 76.8

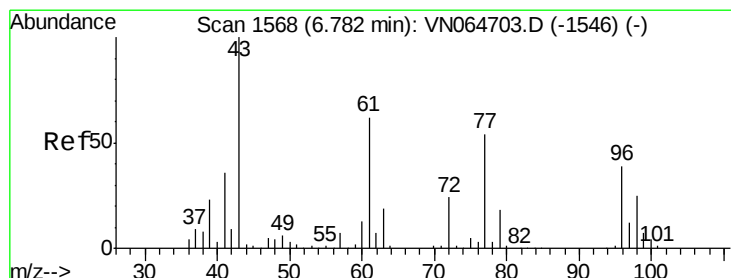
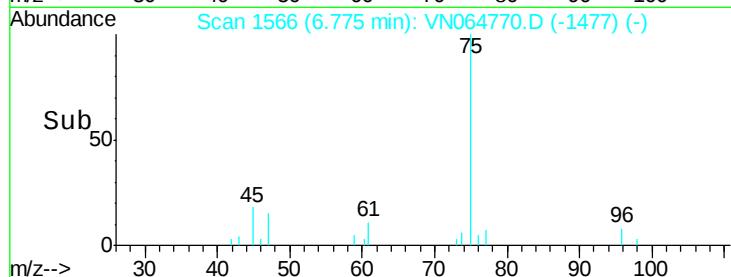
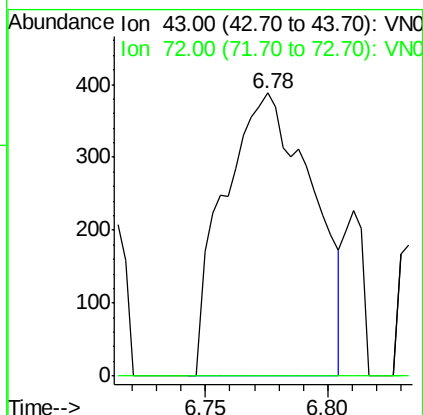
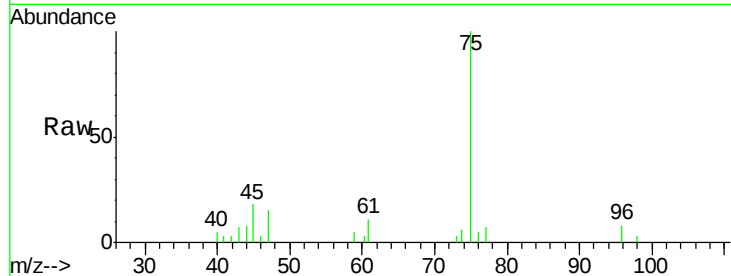




#25
 2-Butanone
 Concen: 0.668 ug/l
 RT: 6.78 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: VN064770.D
 Acq: 20 Nov 2020 9:07

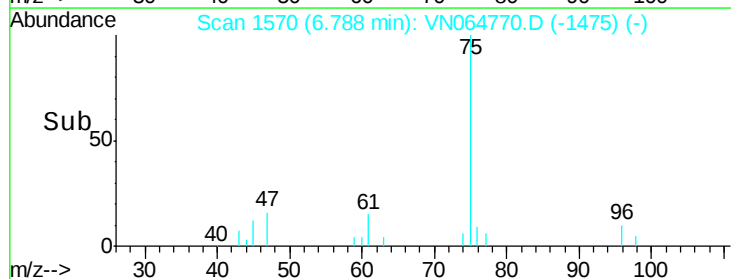
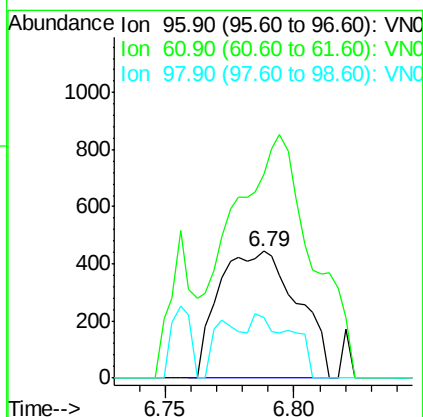
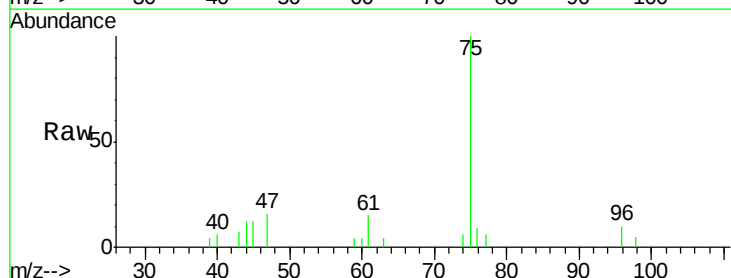
Instrument :
 MSVOA_N
 ClientSampled :
 1555

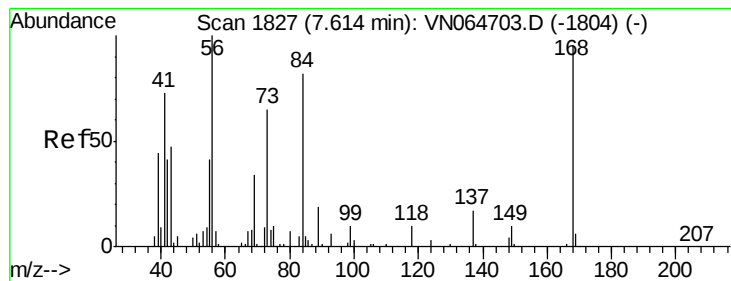
Tgt Ion: 43 Resp: 972
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.7 29.5#



#27
 cis-1,2-Dichloroethene
 Concen: 0.329 ug/l
 RT: 6.79 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN064770.D
 Acq: 20 Nov 2020 9:07

Tgt Ion: 96 Resp: 943
 Ion Ratio Lower Upper
 96 100
 61 195.9 0.0 322.6
 98 25.3 0.0 128.6





#31

Cyclohexane

Concen: 1.640 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampled :

1555

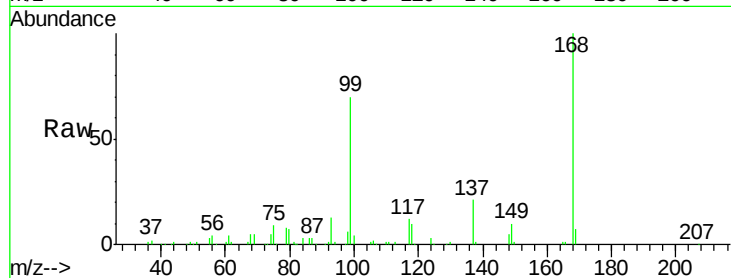
Tgt Ion: 56 Resp: 6754

Ion Ratio Lower Upper

56 100

69 150.8 27.2 40.8#

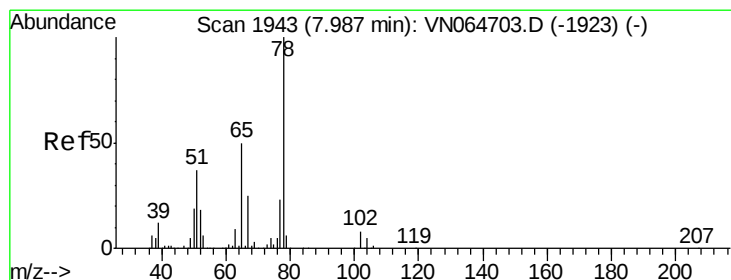
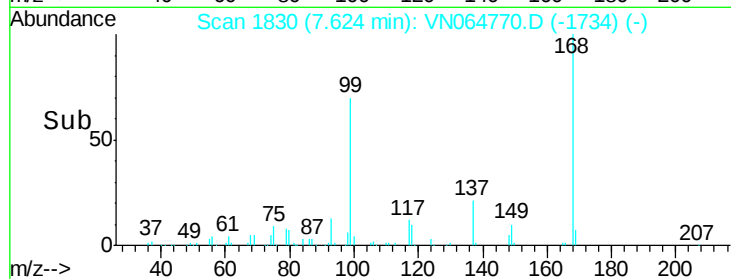
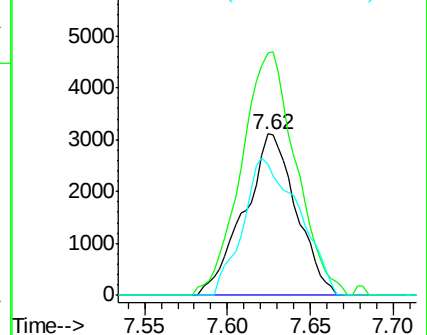
84 81.3 65.9 98.9



Abundance Ion 56.00 (55.70 to 56.70): VN064770.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN064770.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN064770.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 56.678 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064770.D

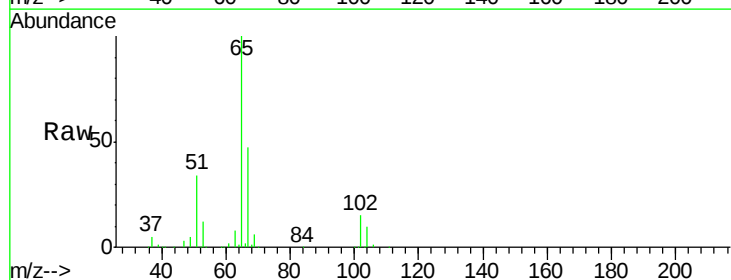
Acq: 20 Nov 2020 9:07

Tgt Ion: 65 Resp: 215839

Ion Ratio Lower Upper

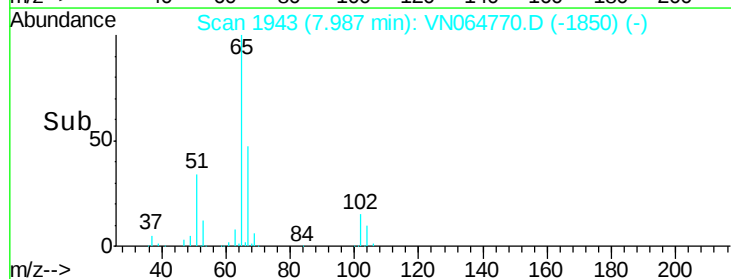
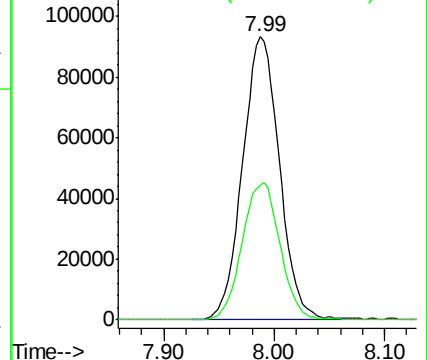
65 100

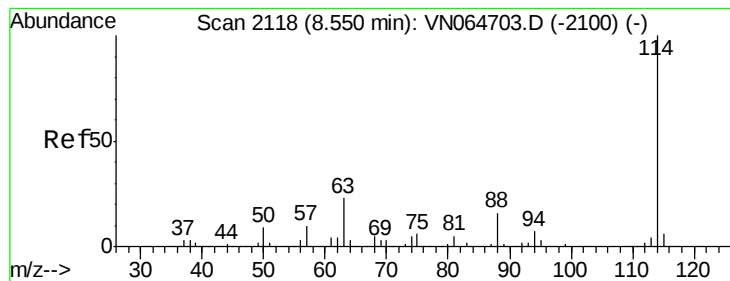
67 49.9 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VN064770.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064770.D (-1850) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampled :

1555

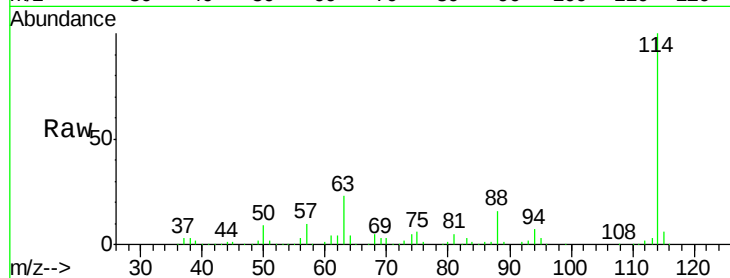
Tgt Ion:114 Resp: 444149

Ion Ratio Lower Upper

114 100

63 22.8 0.0 46.0

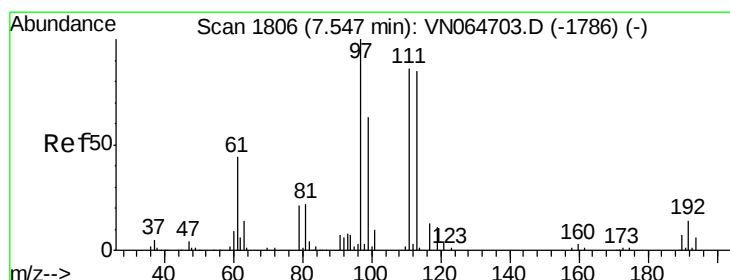
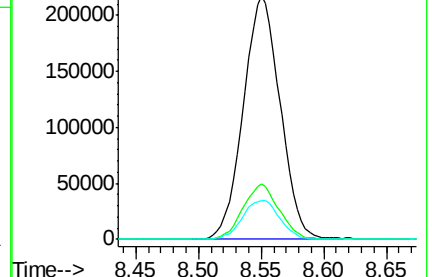
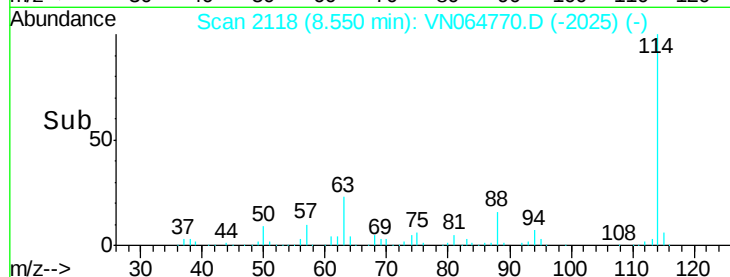
88 15.9 0.0 31.2



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: 60.526 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

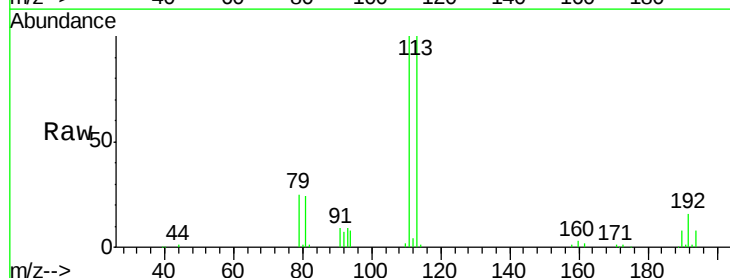
Tgt Ion:113 Resp: 153008

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

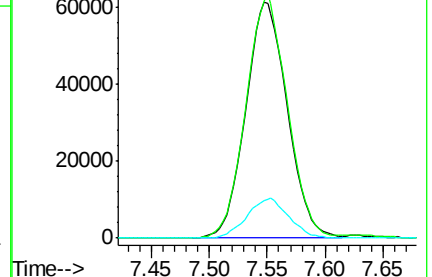
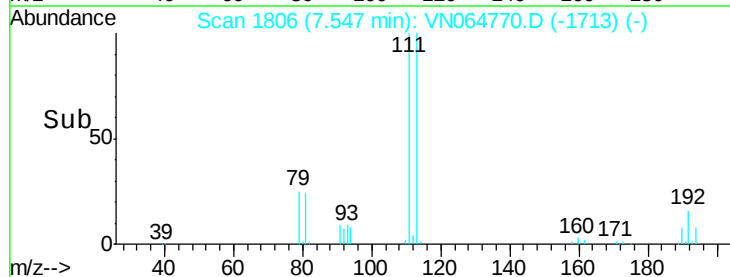
192 16.9 12.7 19.1

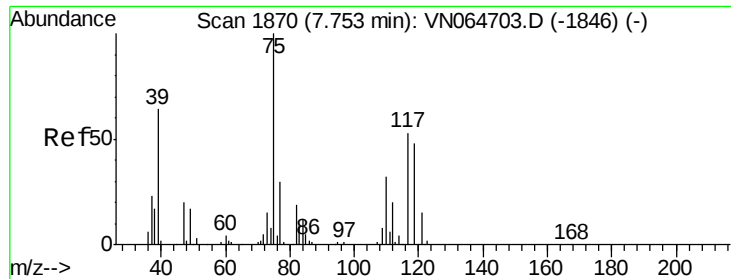


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 7.63 min Scan# 1831

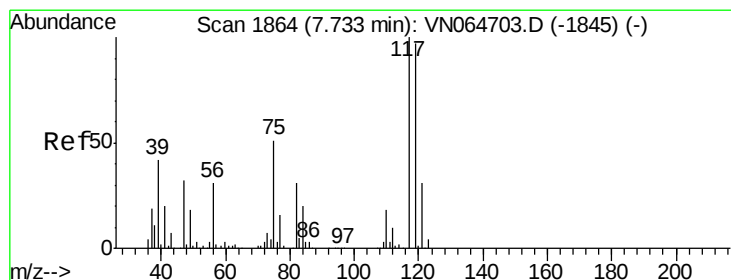
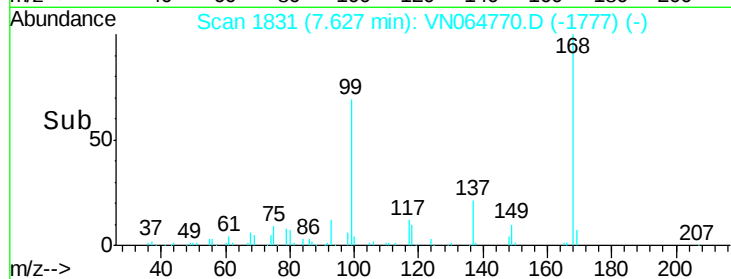
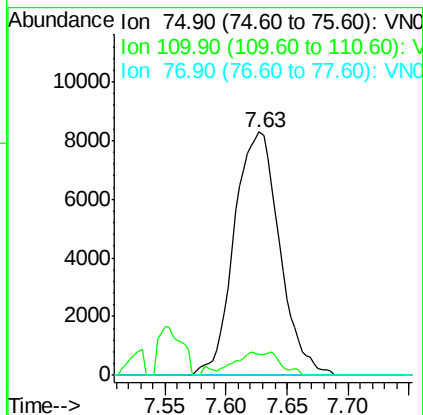
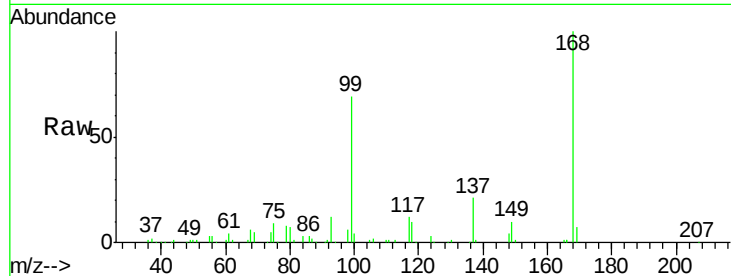
Delta R.T. -0.13 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :
MSVOA_N
ClientSampled :
1555

Tgt Ion:	75	Resp:	21320
Ion	Ratio	Lower	Upper
75	100		
110	3.6	16.2	48.6#
77	0.0	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 5.315 ug/l

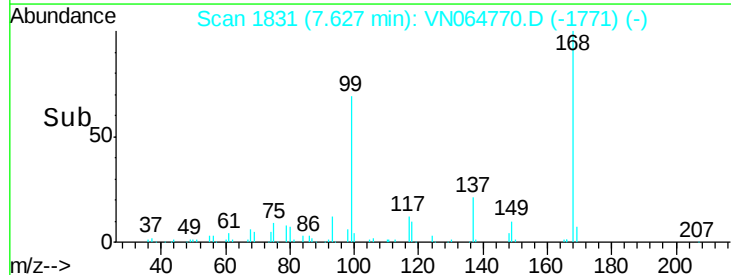
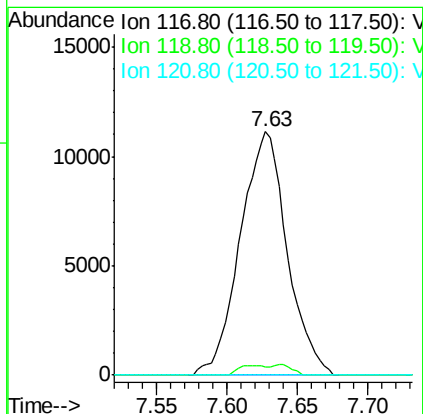
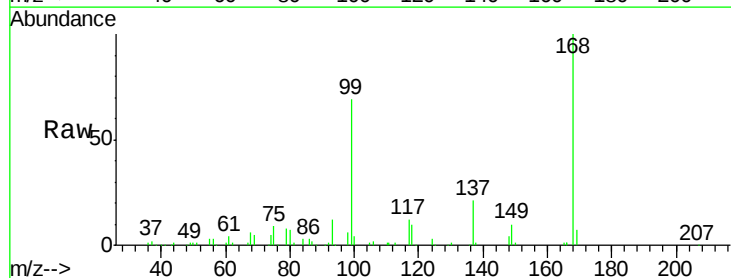
RT: 7.63 min Scan# 1831

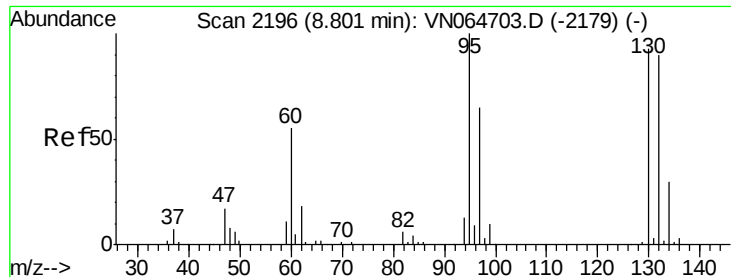
Delta R.T. -0.11 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Tgt Ion:	117	Resp:	25810
Ion	Ratio	Lower	Upper
117	100		
119	3.4	77.8	116.6#
121	0.0	24.9	37.3#





#44

Trichloroethene

Concen: 0.468 ug/l

RT: 8.81 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampleId :

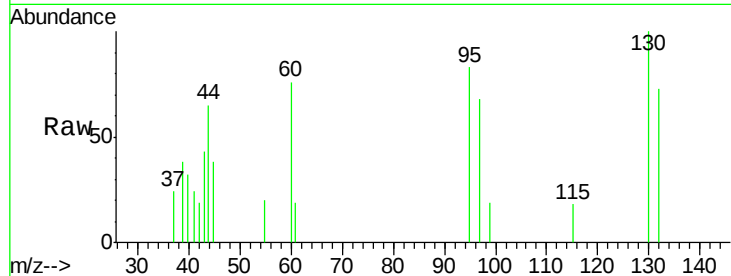
1555

Tgt Ion:130 Resp: 1709

Ion Ratio Lower Upper

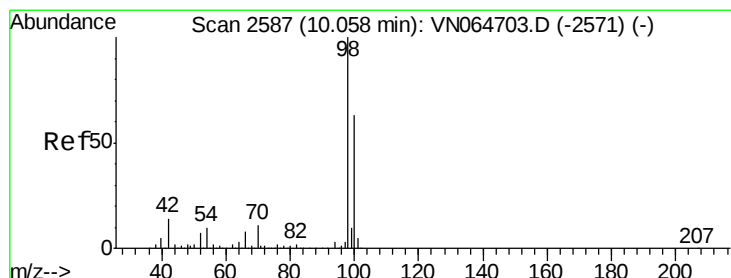
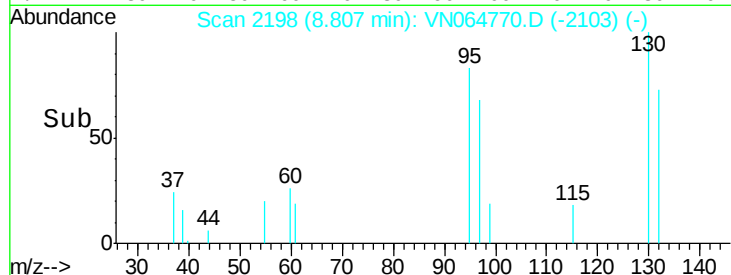
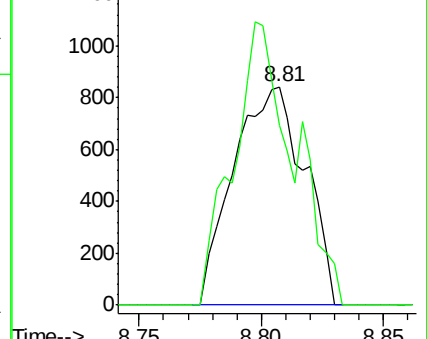
130 100

95 82.6 0.0 214.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 51.398 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064770.D

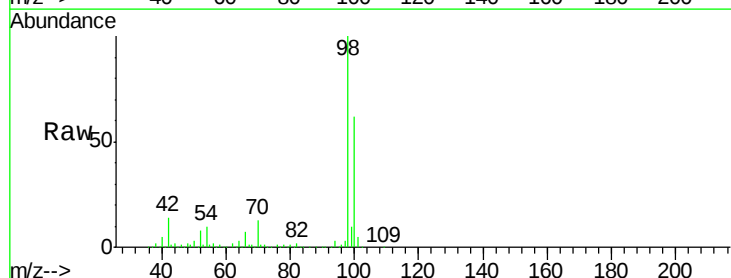
Acq: 20 Nov 2020 9:07

Tgt Ion: 98 Resp: 590522

Ion Ratio Lower Upper

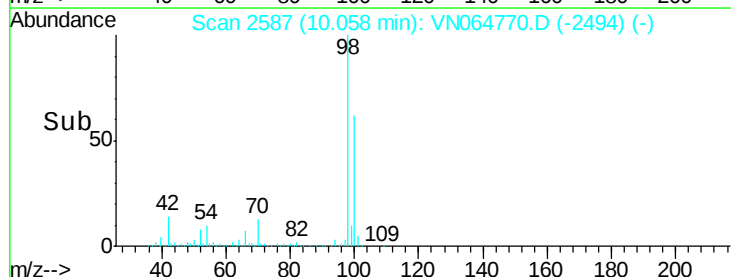
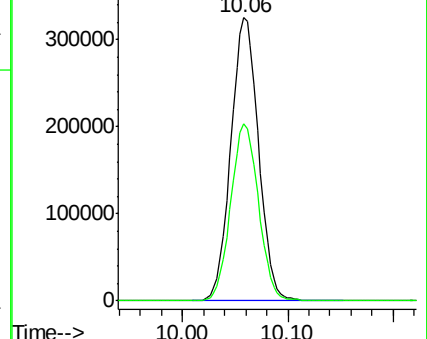
98 100

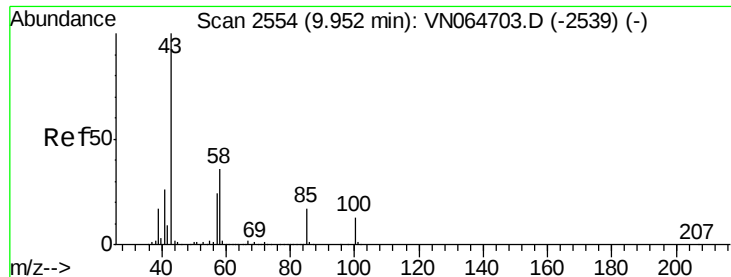
100 62.6 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

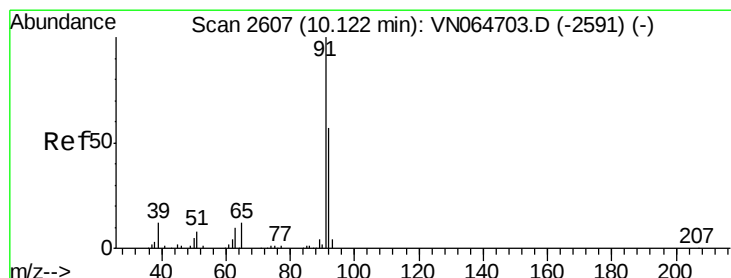
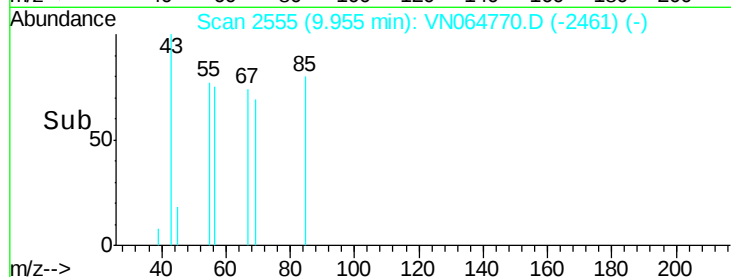
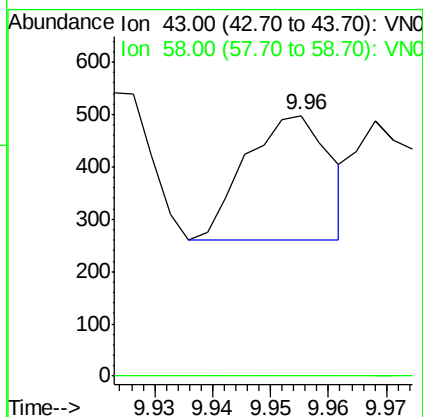
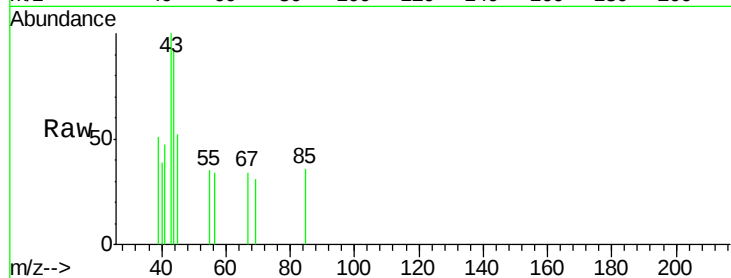




#51
 4-Methyl-2-Pentanone
 Concen: 6.181 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064770.D
 Acq: 20 Nov 2020 9:07

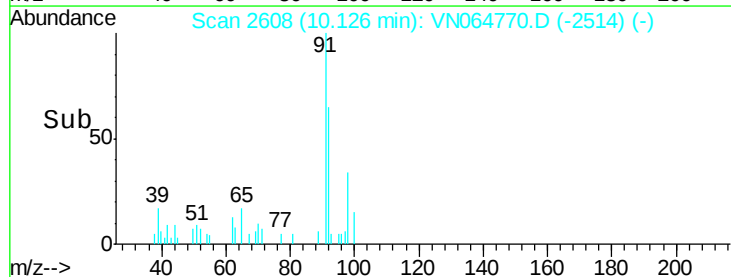
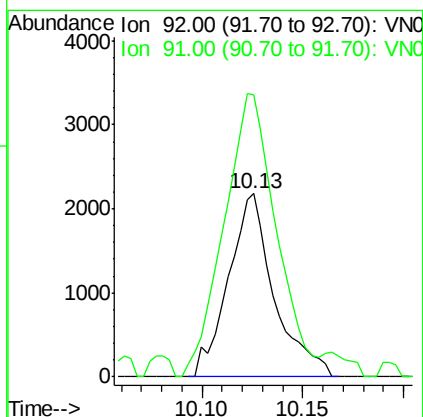
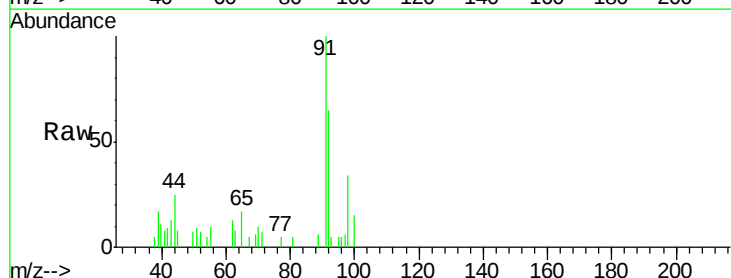
Instrument :
 MSVOA_N
 ClientSampled :
 1555

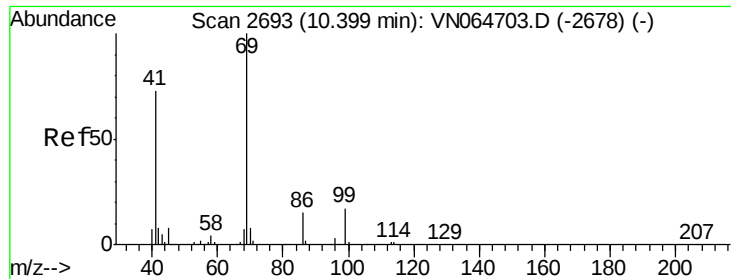
Tgt Ion: 43 Resp: 238
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.5 42.7#



#52
 Toluene
 Concen: 0.439 ug/l
 RT: 10.13 min Scan# 2608
 Delta R.T. 0.00 min
 Lab File: VN064770.D
 Acq: 20 Nov 2020 9:07

Tgt Ion: 92 Resp: 3445
 Ion Ratio Lower Upper
 92 100
 91 176.7 141.2 211.8





#56

Ethyl methacrylate

Concen: 2.700 ug/l

RT: 10.40 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampled :

1555

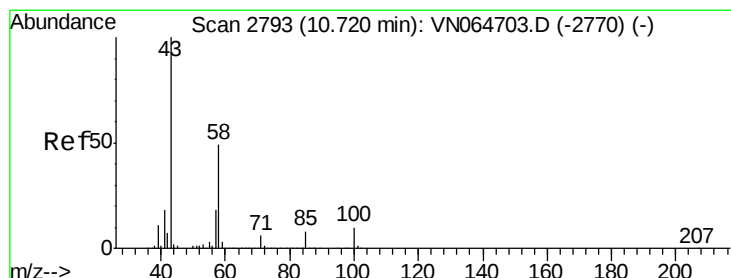
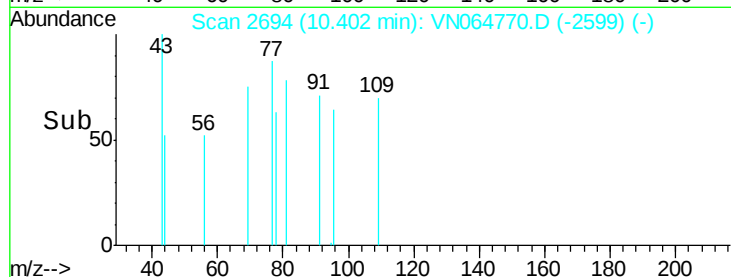
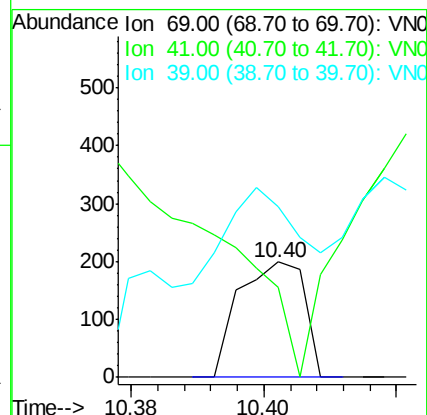
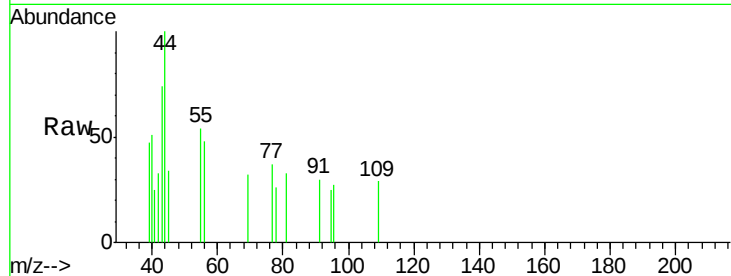
Tgt Ion: 69 Resp: 136

Ion Ratio Lower Upper

69 100

41 0.0 59.0 88.4#

39 91.9 38.4 57.6#



#59

2-Hexanone

Concen: 8.505 ug/l

RT: 10.89 min Scan# 2846

Delta R.T. 0.17 min

Lab File: VN064770.D

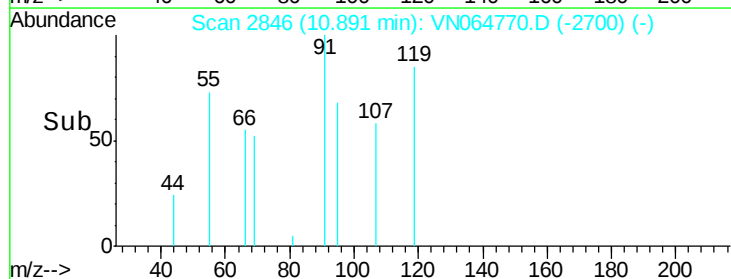
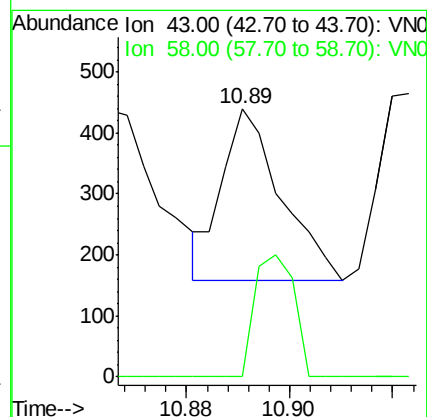
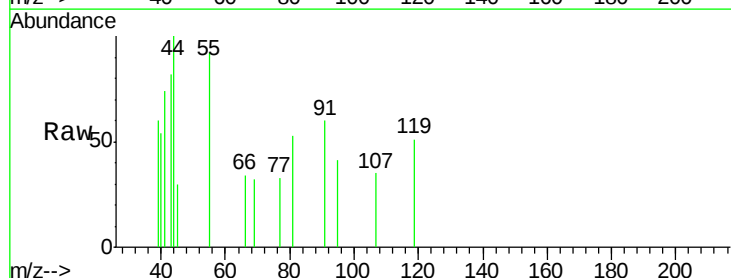
Acq: 20 Nov 2020 9:07

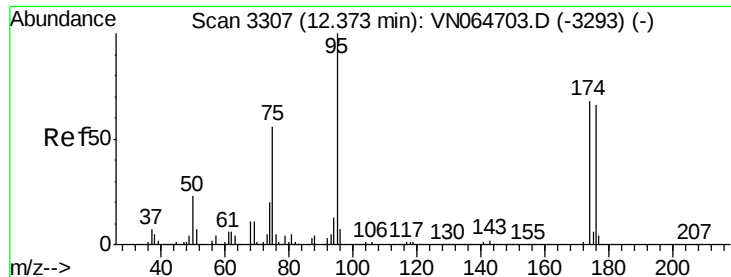
Tgt Ion: 43 Resp: 222

Ion Ratio Lower Upper

43 100

58 47.3 24.4 73.4

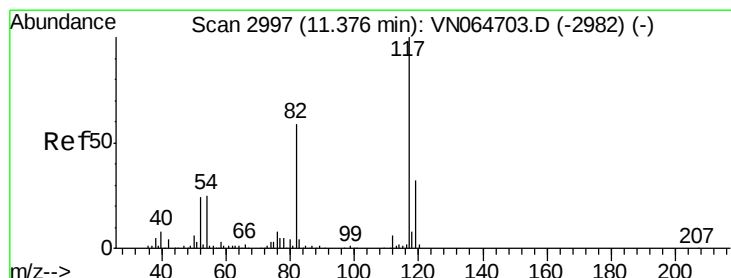
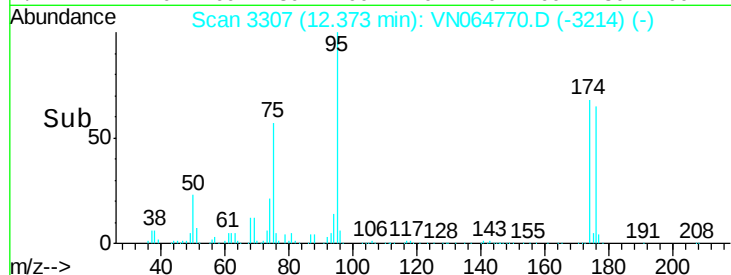
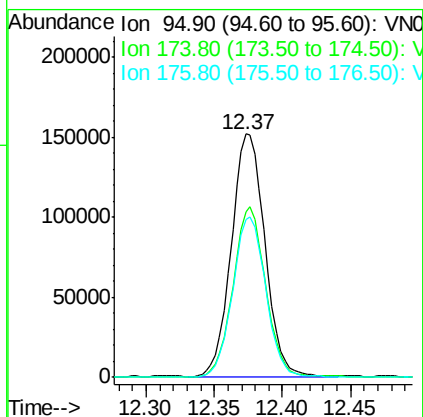
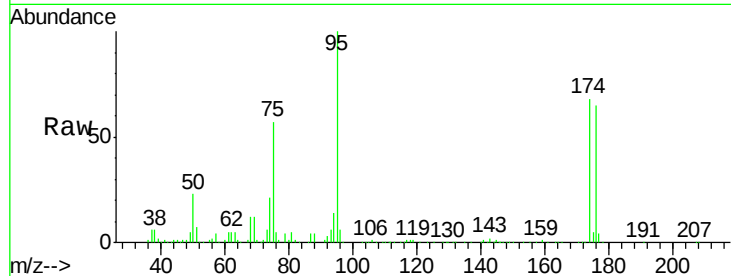




#62
4-Bromofluorobenzene
Concen: 60.141 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064770.D
Acq: 20 Nov 2020 9:07

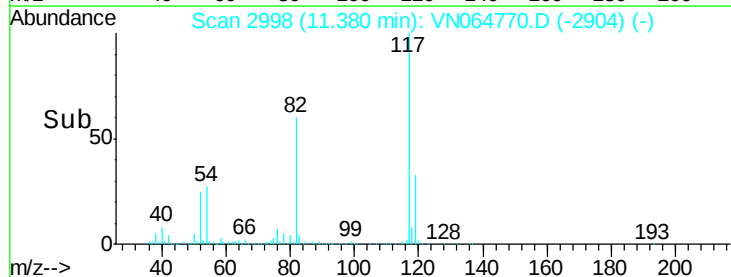
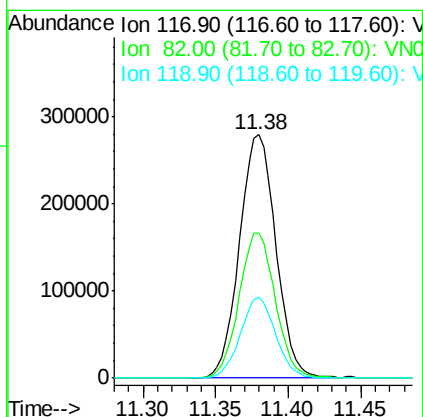
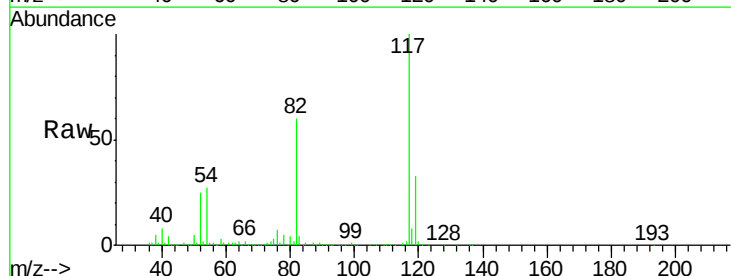
Instrument :
MSVOA_N
ClientSampled :
1555

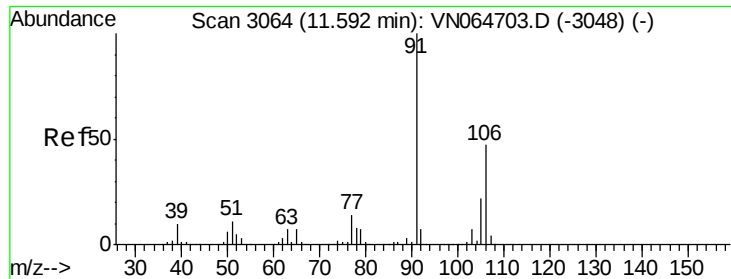
Tgt Ion: 95 Resp: 258272
Ion Ratio Lower Upper
95 100
174 68.2 0.0 136.8
176 65.6 0.0 134.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064770.D
Acq: 20 Nov 2020 9:07

Tgt Ion: 117 Resp: 488684
Ion Ratio Lower Upper
117 100
82 59.6 47.0 70.6
119 33.0 25.4 38.2

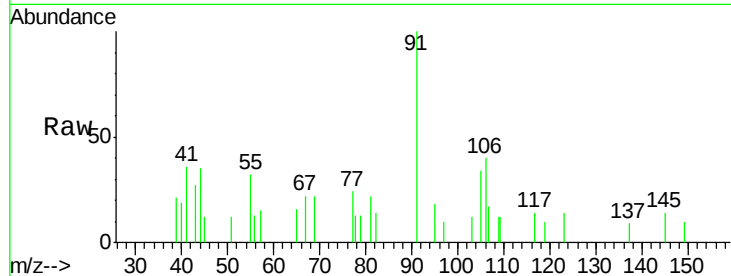




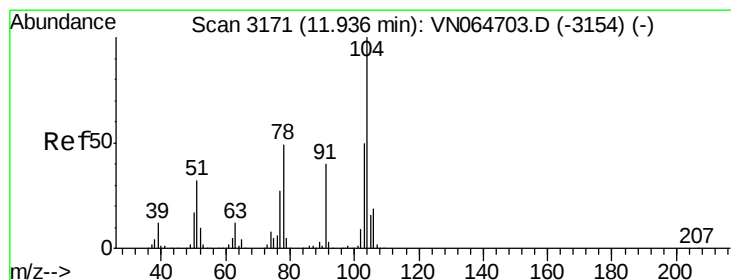
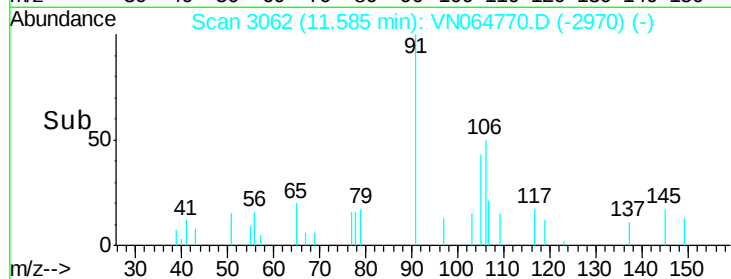
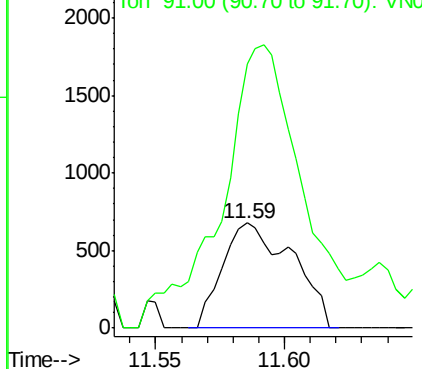
#68
m/p-Xylenes
Concen: 4.227 ug/l
RT: 11.59 min Scan# 3062
Delta R.T. -0.01 min
Lab File: VN064770.D
Acq: 20 Nov 2020 9:07

Instrument :
MSVOA_N
ClientSampleId :
1555

Tgt Ion:106 Resp: 1278
Ion Ratio Lower Upper
106 100
91 307.5 171.9 257.9#

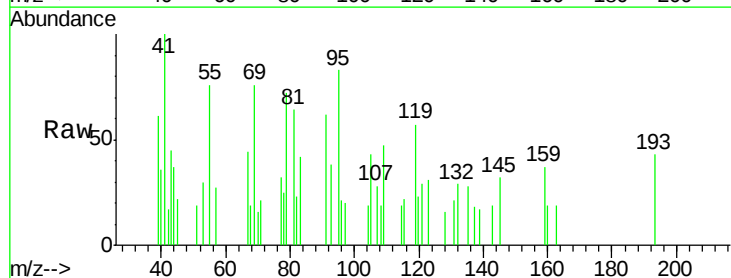


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

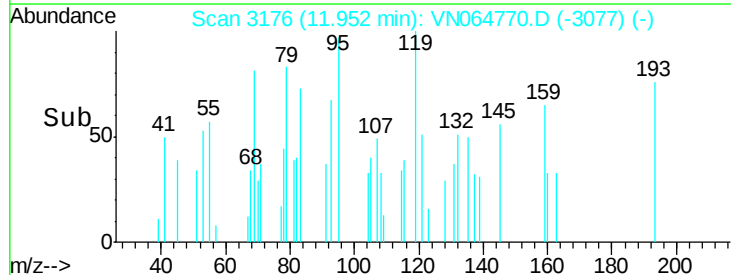
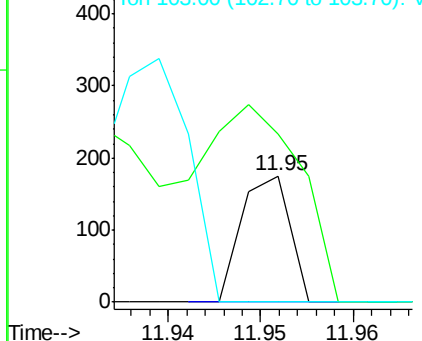


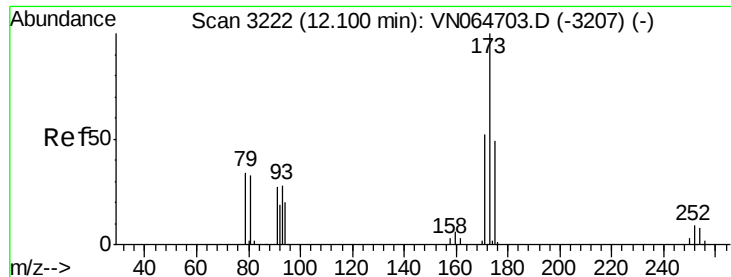
#70
Styrene
Concen: 2.542 ug/l
RT: 11.95 min Scan# 3176
Delta R.T. 0.02 min
Lab File: VN064770.D
Acq: 20 Nov 2020 9:07

Tgt Ion:104 Resp: 63
Ion Ratio Lower Upper
104 100
78 333.3 44.1 66.1#
103 0.0 43.7 65.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 2.468 ug/l

RT: 12.10 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampleId :

1555

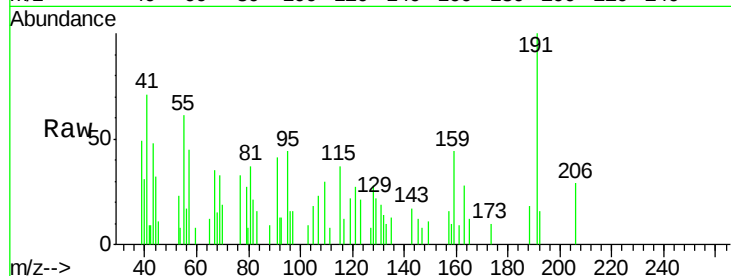
Tgt Ion:173 Resp: 68

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

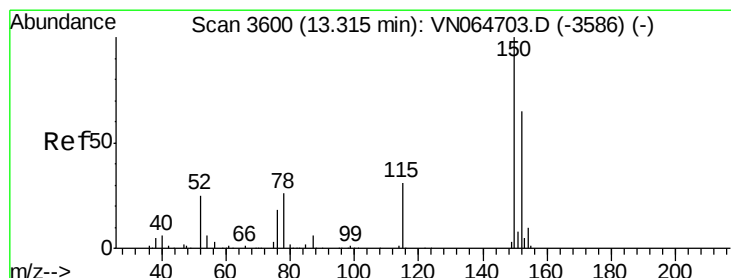
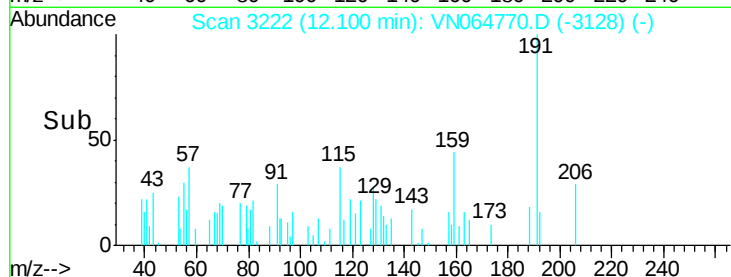
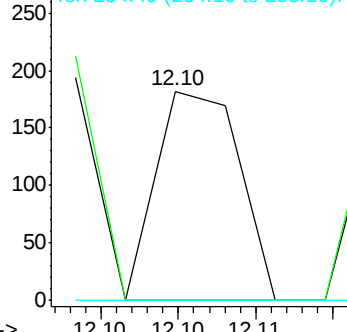
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

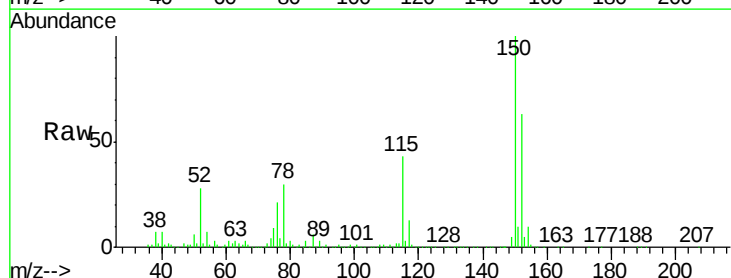
Tgt Ion:152 Resp: 222484

Ion Ratio Lower Upper

152 100

115 67.6 32.1 96.3

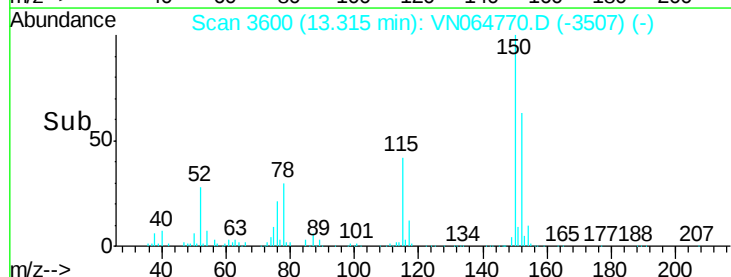
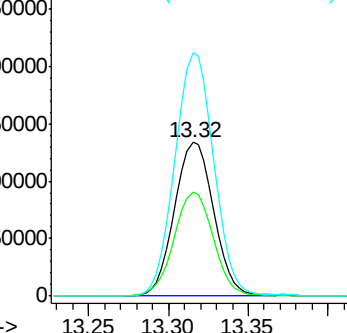
150 158.9 0.0 344.8

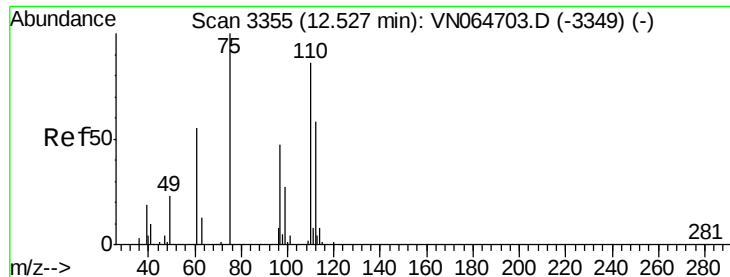


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.435 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

Instrument :

MSVOA_N

ClientSampleId :

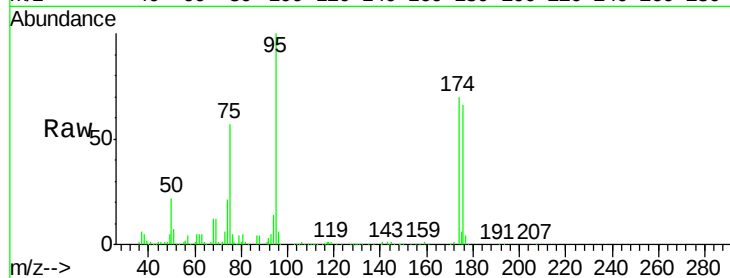
1555

Tgt Ion: 75 Resp: 145896

Ion Ratio Lower Upper

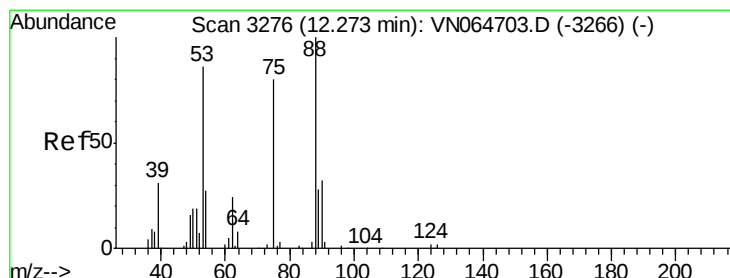
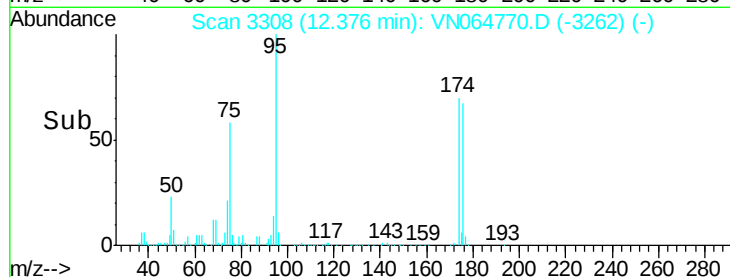
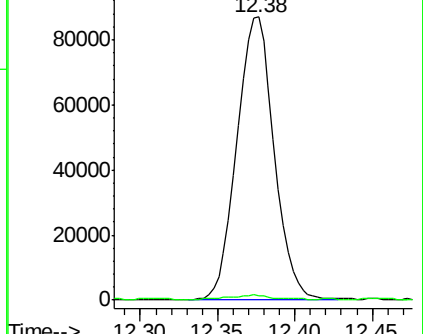
75 100

77 1.6 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: 77.561 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064770.D

Acq: 20 Nov 2020 9:07

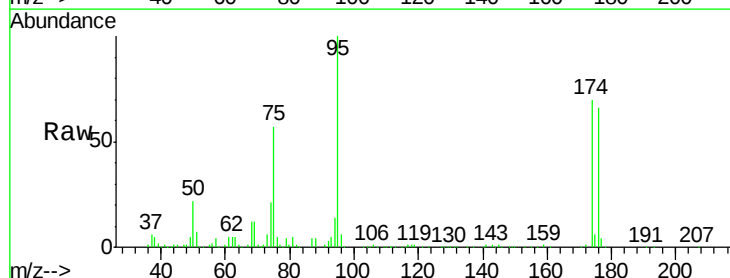
Tgt Ion: 75 Resp: 145896

Ion Ratio Lower Upper

75 100

53 0.2 88.8 133.2#

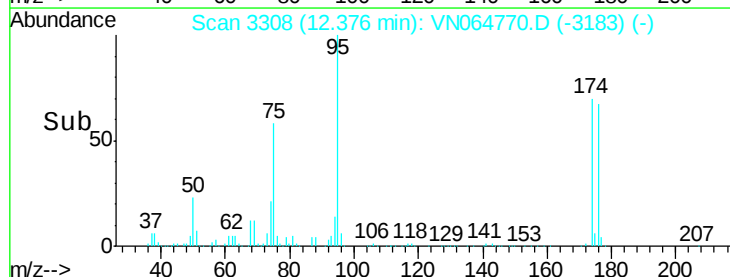
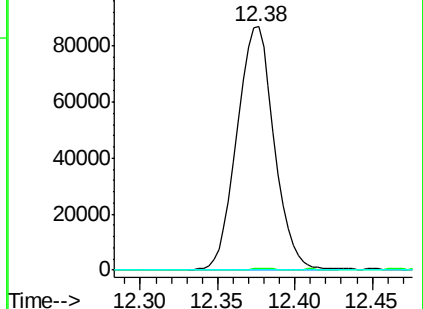
89 0.0 43.1 64.7#

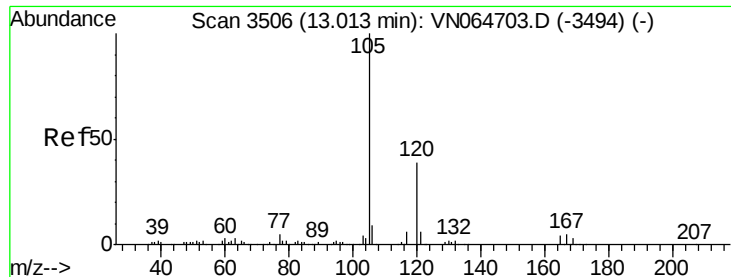


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

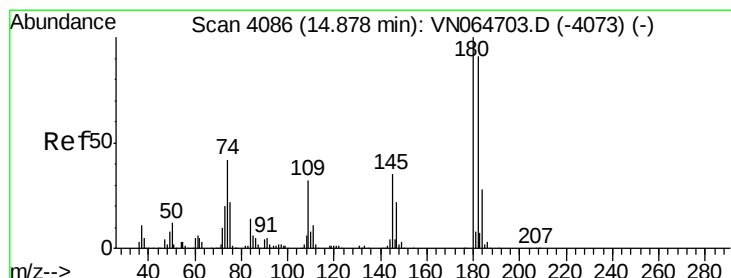
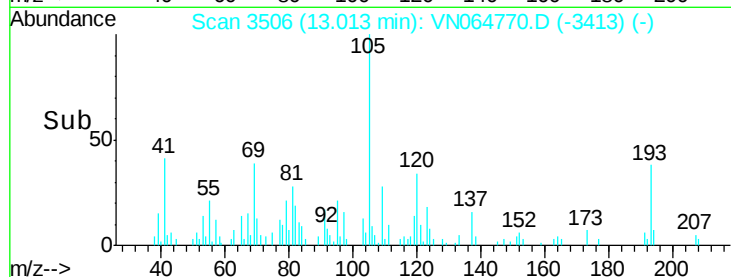
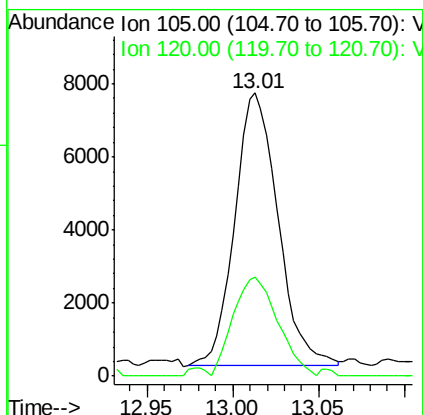
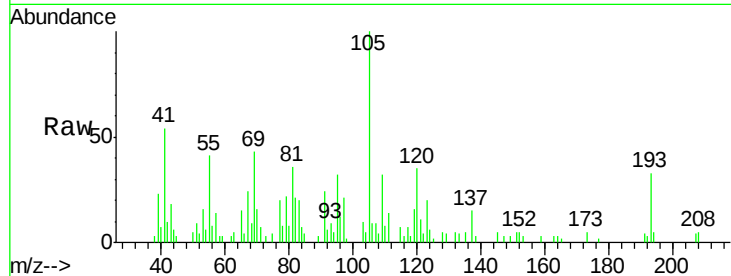




#84
 1,2,4-Trimethylbenzene
 Concen: 0.973 ug/l
 RT: 13.01 min Scan# 3506
 Delta R.T. -0.00 min
 Lab File: VN064770.D
 Acq: 20 Nov 2020 9:07

Instrument :
 MSVOA_N
 ClientSampled :
 1555

Tgt Ion:105 Resp: 13024
 Ion Ratio Lower Upper
 105 100
 120 37.7 22.0 66.0



#93
 1,2,4-Trichlorobenzene
 Concen: 1.366 ug/l
 RT: 14.87 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN064770.D
 Acq: 20 Nov 2020 9:07

Tgt Ion:180 Resp: 134
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.8#
 145 411.9 17.5 52.5#

