

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111920\
 Data File : VN064767.D
 Acq On : 20 Nov 2020 7:55
 Operator : JC/MD
 Sample : L4779-01 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1643

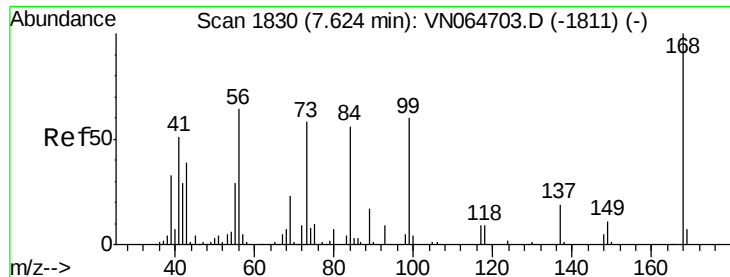
Quant Time: Nov 20 13:45:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	208342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	430273	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	478307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	223263	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	209819	57.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.50%	
35) Dibromofluoromethane	7.55	113	146831	59.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.92%	
50) Toluene-d8	10.06	98	632975	56.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.74%	
62) 4-Bromofluorobenzene	12.38	95	253439	60.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.84%	

Target Compounds					Qvalue	
11) Tert butyl alcohol	4.75	59	124	0.349	ug/l #	70
13) Acrolein	3.56	56	69	0.829	ug/l #	11
16) Acetone	3.78	43	4045	9.533	ug/l	90
18) Methyl Acetate	4.29	43	793	1.621	ug/l #	54
20) Methylene Chloride	4.50	84	1106	0.408	ug/l #	76
25) 2-Butanone	6.79	43	1006	0.718	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	1671	0.606	ug/l	12
31) Cyclohexane	7.62	56	6454	1.629	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	20226	4.569	ug/l #	52
38) Carbon Tetrachloride	7.63	117	24758	5.263	ug/l #	15
44) Trichloroethene	8.79	130	3581	1.012	ug/l	94
51) 4-Methyl-2-Pentanone	9.96	43	915	6.335	ug/l #	39
56) Ethyl methacrylate	10.40	69	60	2.686	ug/l #	1
59) 2-Hexanone	10.71	43	261	8.519	ug/l #	28
68) m/p-Xylenes	11.59	106	44	4.068	ug/l #	1
70) Styrene	11.96	104	31	2.539	ug/l #	1
71) Bromoform	12.10	173	255	2.529	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	143920	29.918	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	143920	76.269	ug/l #	5
90) Hexachloroethane	13.86	117	542	0.263	ug/l #	18
95) Naphthalene	15.10	128	3083	0.246	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.37	180	60	0.774	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: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

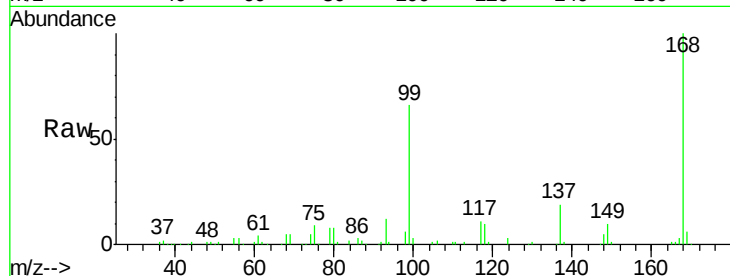
1643

Tgt Ion:168 Resp: 208342

Ion Ratio Lower Upper

168 100

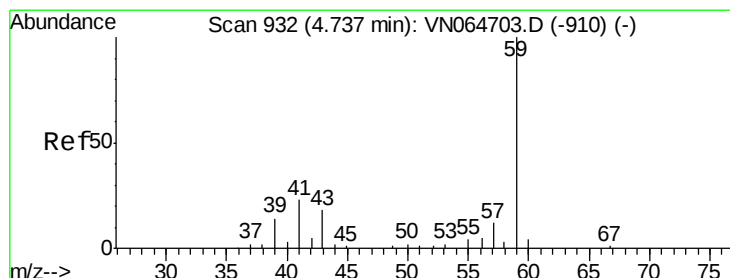
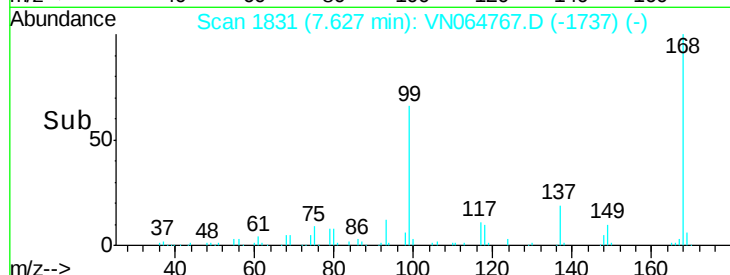
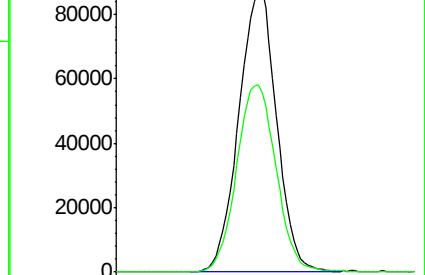
99 66.0 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63



#11

Tert butyl alcohol

Concen: 0.349 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.01 min

Lab File: VN064767.D

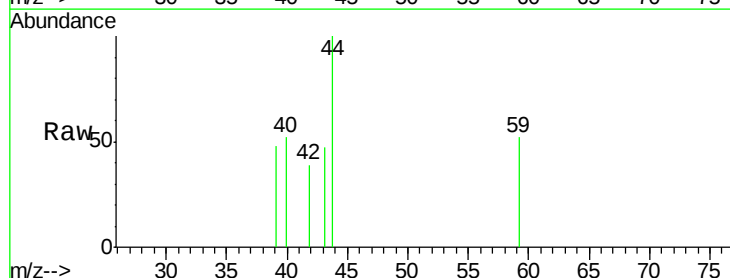
Acq: 20 Nov 2020 7:55

Tgt Ion: 59 Resp: 124

Ion Ratio Lower Upper

59 100

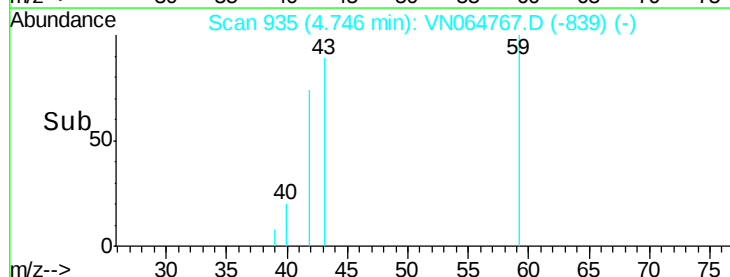
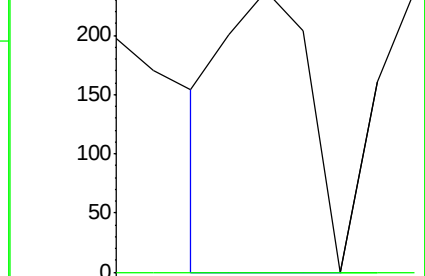
57 0.0 9.1 13.7#

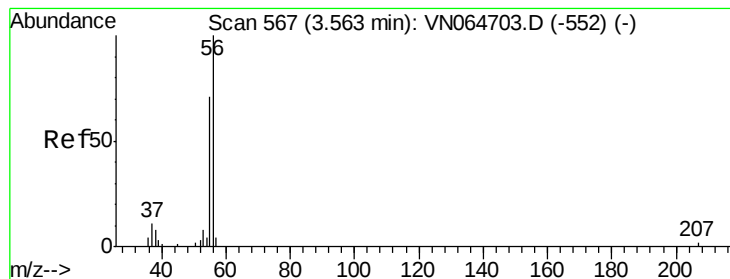


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75





#13

Acrolein

Concen: 0.829 ug/l

RT: 3.56 min Scan# 565

Delta R.T. -0.01 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

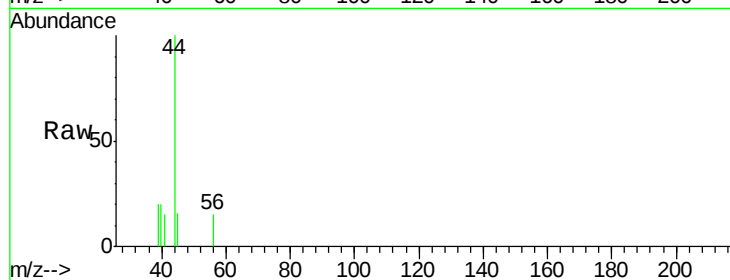
1643

Tgt Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 61.8 92.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.56

150

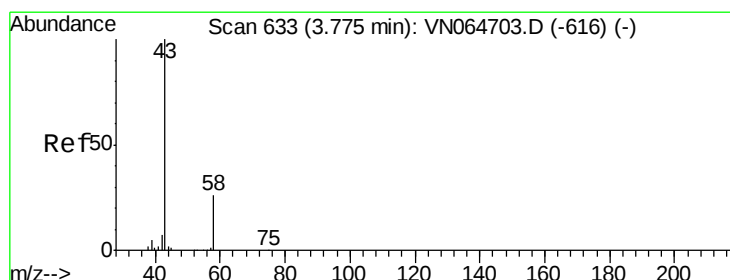
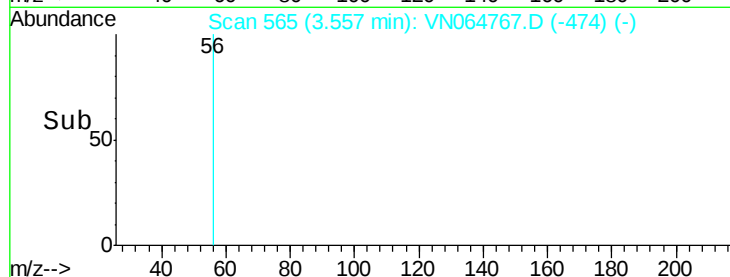
100

50

0

3.55 3.56 3.57

Time-->



#16

Acetone

Concen: 9.533 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064767.D

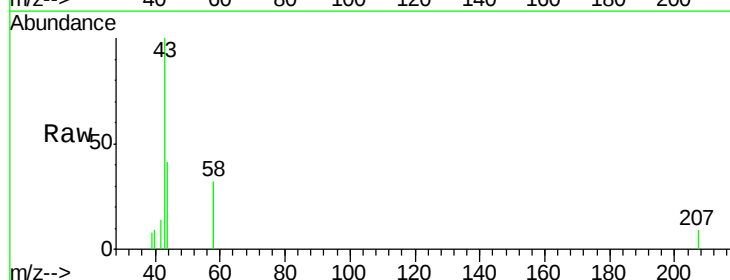
Acq: 20 Nov 2020 7:55

Tgt Ion: 43 Resp: 4045

Ion Ratio Lower Upper

43 100

58 31.5 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2500

2000

1500

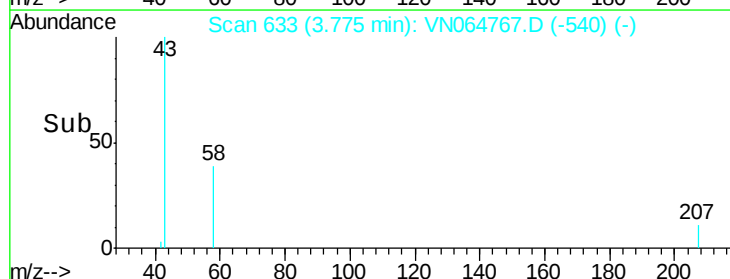
1000

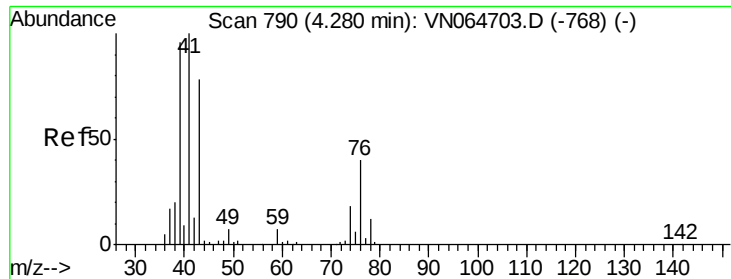
500

0

3.75 3.78 3.80

Time-->





#18

Methyl Acetate

Concen: 1.621 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

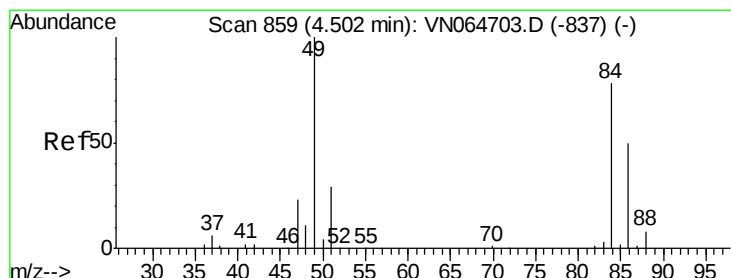
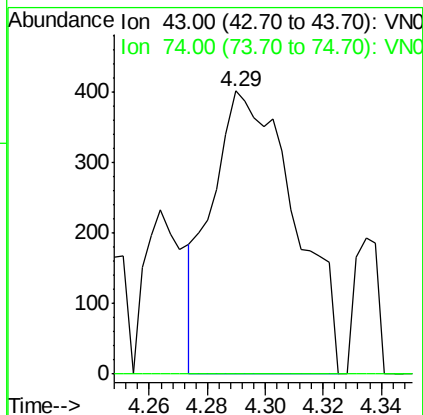
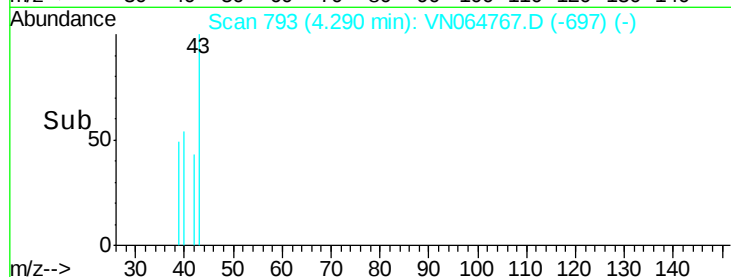
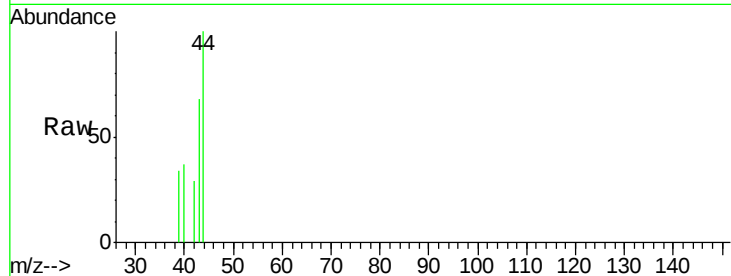
1643

Tgt Ion: 43 Resp: 793

Ion Ratio Lower Upper

43 100

74 0.0 17.6 26.4#



#20

Methylene Chloride

Concen: 0.408 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Tgt Ion: 84 Resp: 1106

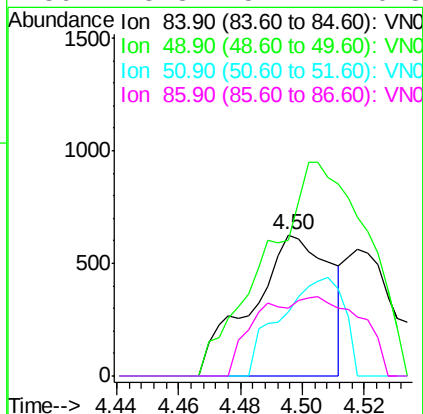
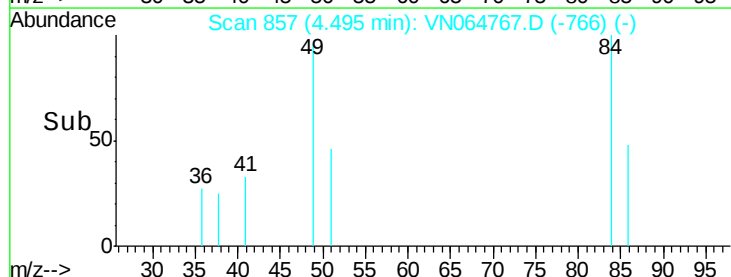
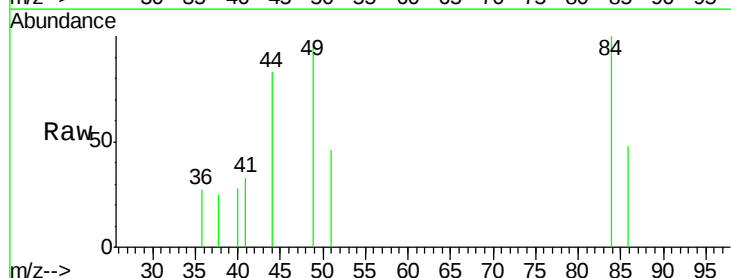
Ion Ratio Lower Upper

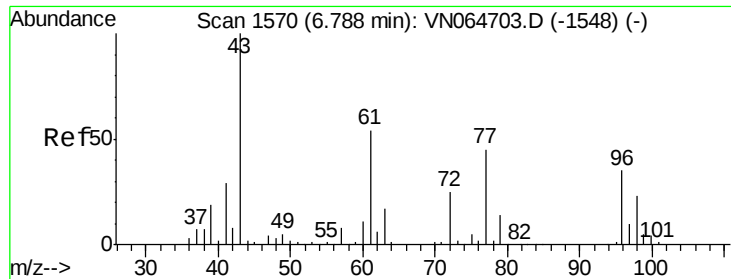
84 100

49 96.0 102.4 153.6#

51 45.8 29.4 44.2#

86 48.3 51.2 76.8#

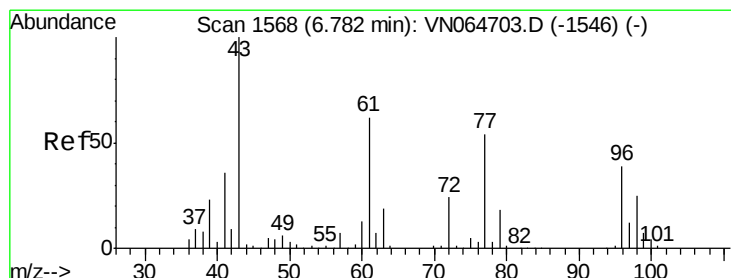
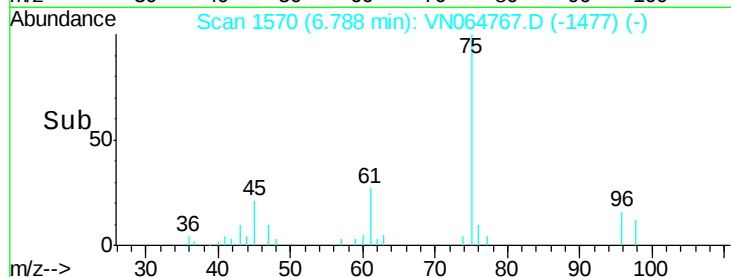
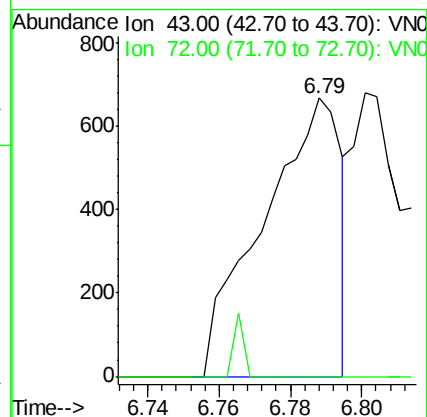
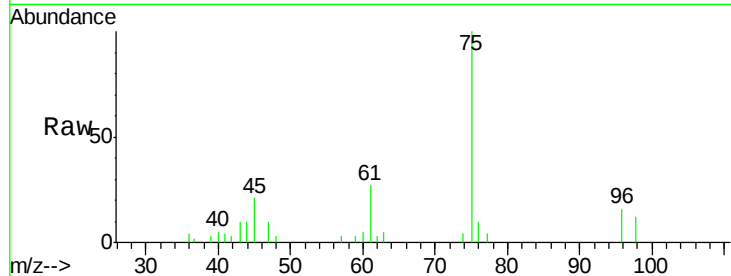




#25
2-Butanone
Concen: 0.718 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

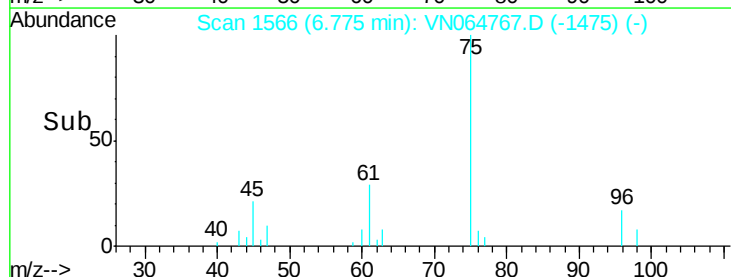
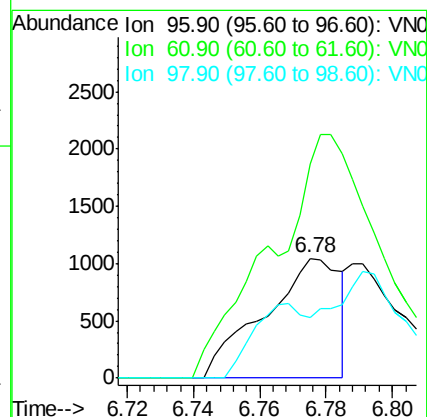
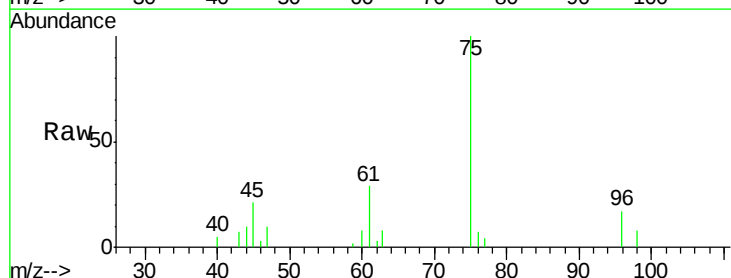
Instrument :
MSVOA_N
ClientSampleId :
1643

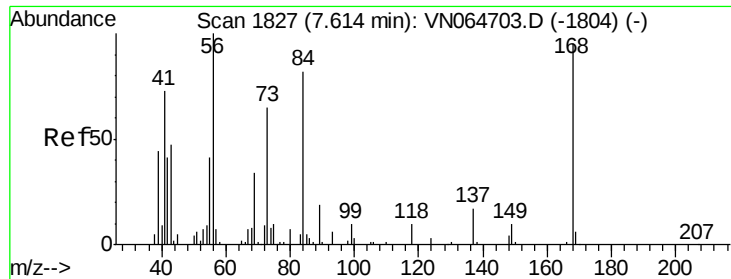
Tgt Ion: 43 Resp: 1006
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#



#27
cis-1,2-Dichloroethene
Concen: 0.606 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Tgt Ion: 96 Resp: 1671
Ion Ratio Lower Upper
96 100
61 310.6 0.0 322.6
98 44.5 0.0 128.6

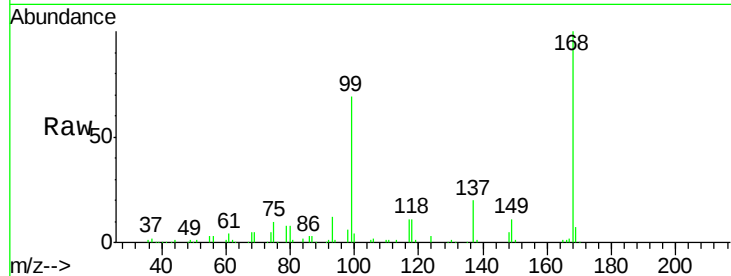




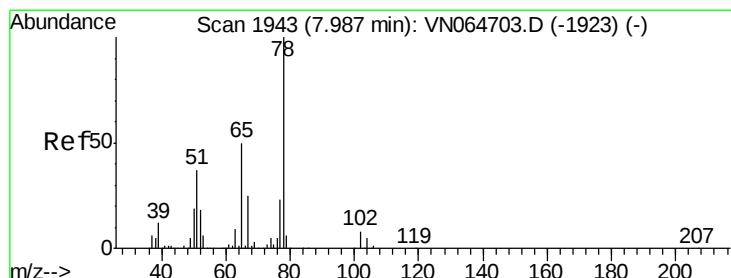
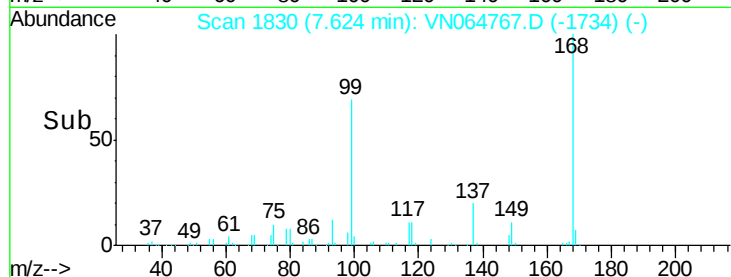
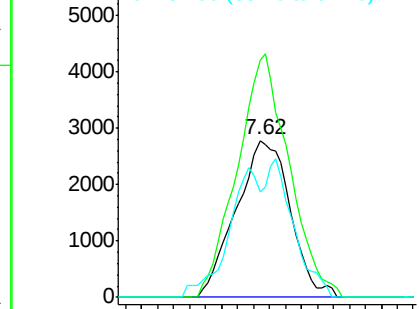
#31
Cyclohexane
Concen: 1.629 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Instrument :
MSVOA_N
ClientSampleId :
1643

Tgt Ion: 56 Resp: 6454
Ion Ratio Lower Upper
56 100
69 151.7 27.2 40.8#
84 67.5 65.9 98.9

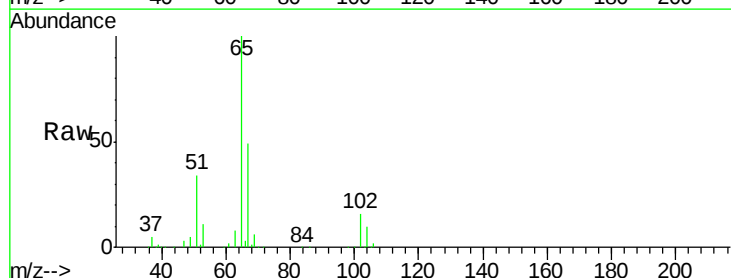


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

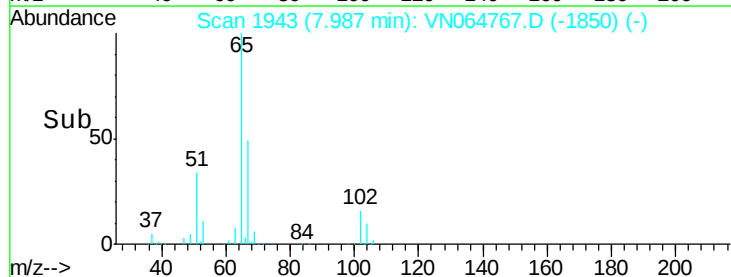
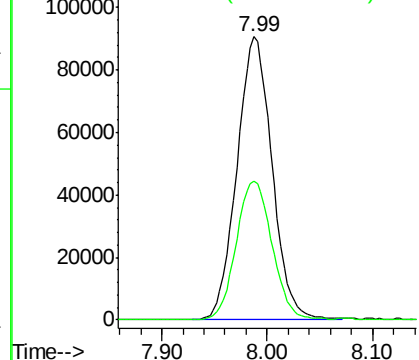


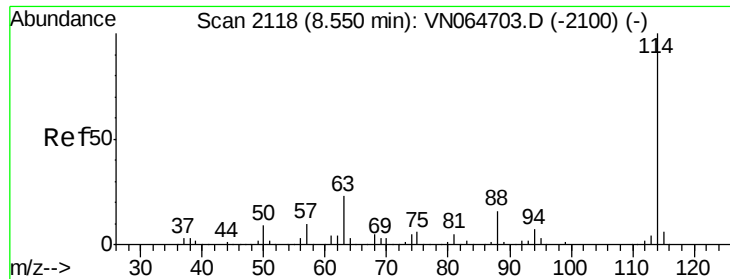
#33
1,2-Dichloroethane-d4
Concen: 57.248 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Tgt Ion: 65 Resp: 209819
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

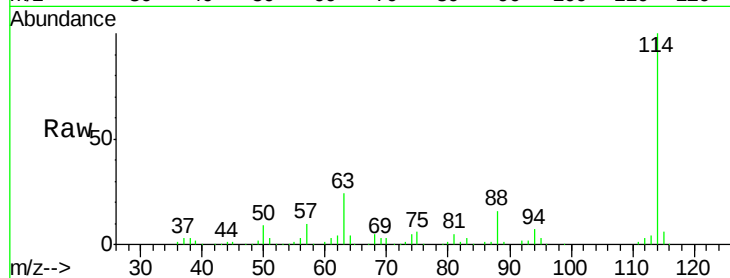




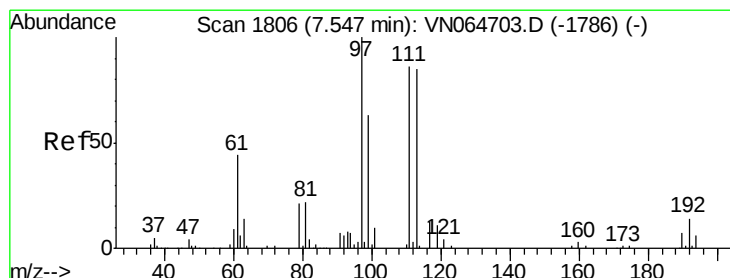
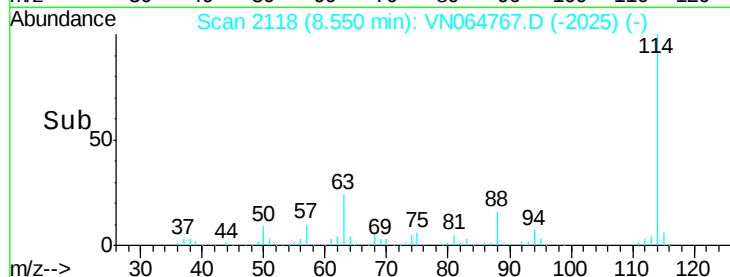
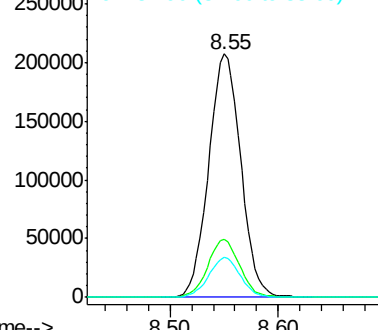
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Instrument :
MSVOA_N
ClientSampled :
1643

Tgt Ion:114 Resp: 430273
Ion Ratio Lower Upper
114 100
63 23.9 0.0 46.0
88 16.2 0.0 31.2

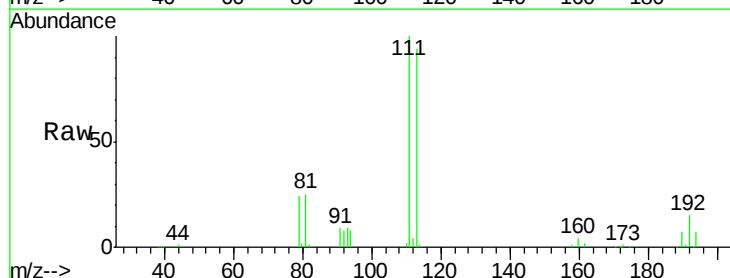


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

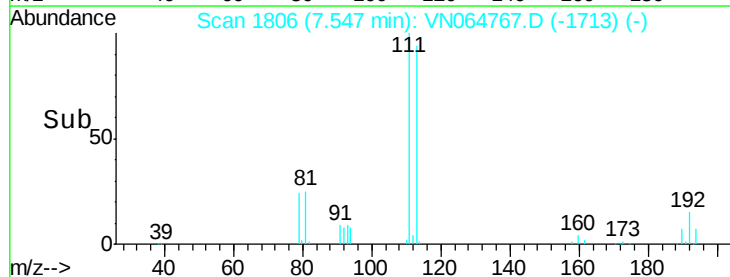
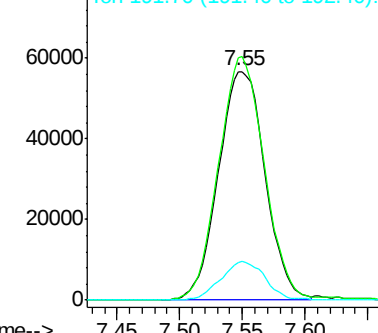


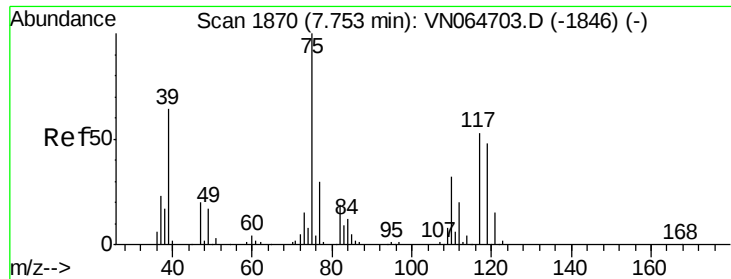
#35
Dibromofluoromethane
Concen: 59.956 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Tgt Ion:113 Resp: 146831
Ion Ratio Lower Upper
113 100
111 104.1 82.2 123.4
192 16.2 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

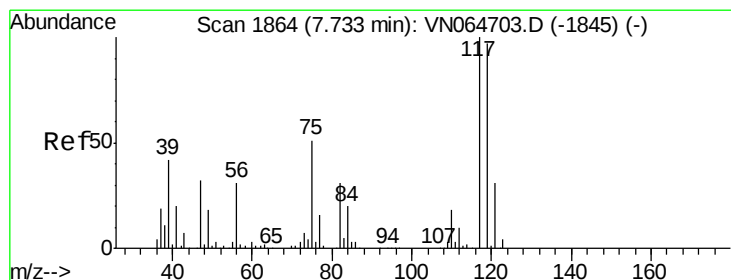
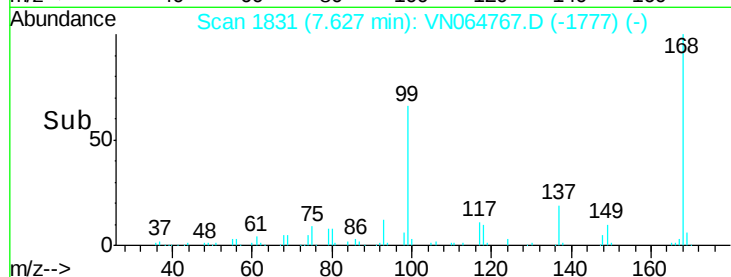
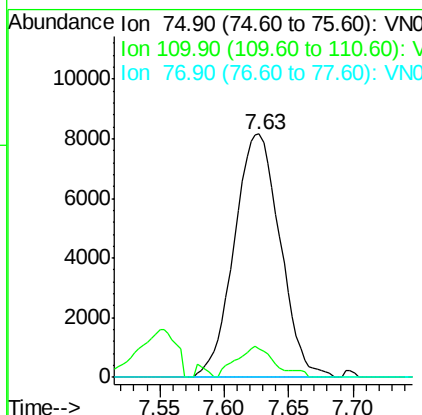
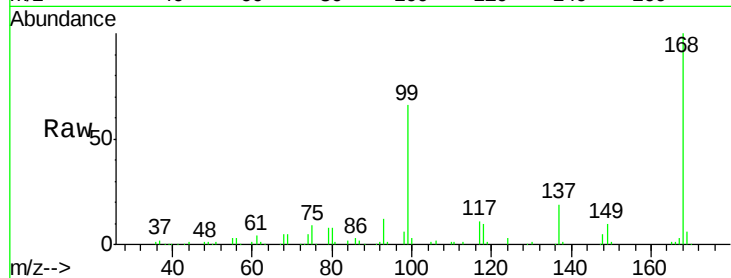




#36
 1,1-Dichloropropene
 Concen: 4.569 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064767.D
 Acq: 20 Nov 2020 7:55

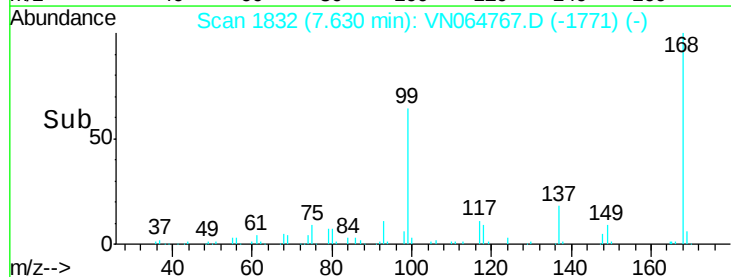
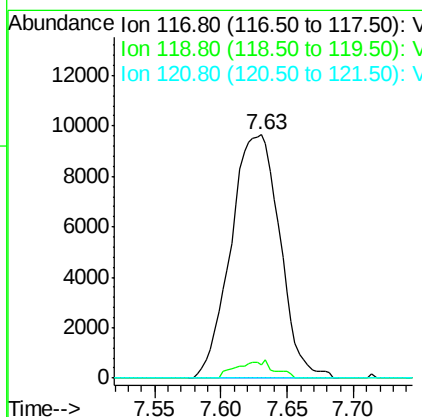
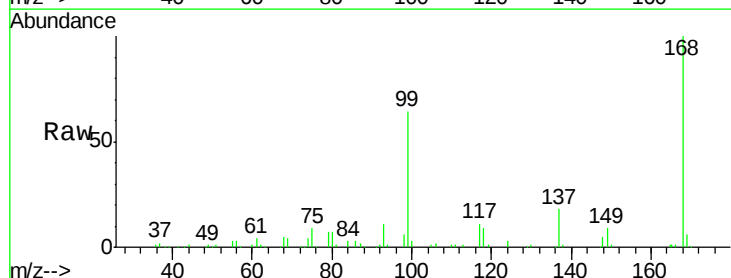
Instrument :
 MSVOA_N
 ClientSampleId :
 1643

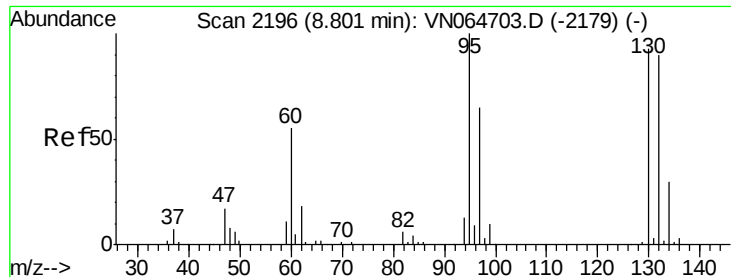
Tgt Ion: 75 Resp: 20226
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.2 48.6#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.263 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.10 min
 Lab File: VN064767.D
 Acq: 20 Nov 2020 7:55

Tgt Ion: 117 Resp: 24758
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.8 116.6#
 121 0.0 24.9 37.3#





#44

Trichloroethene

Concen: 1.012 ug/l

RT: 8.79 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

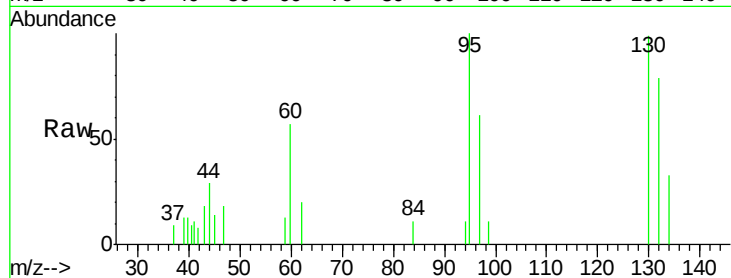
1643

Tgt Ion:130 Resp: 3581

Ion Ratio Lower Upper

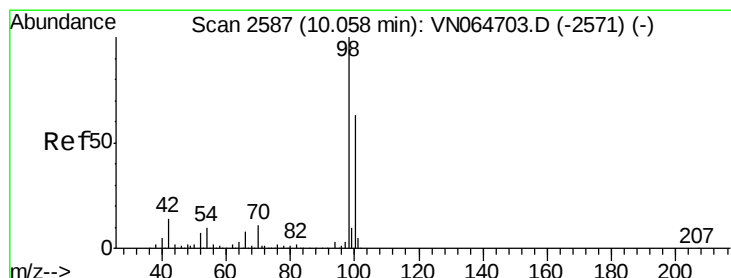
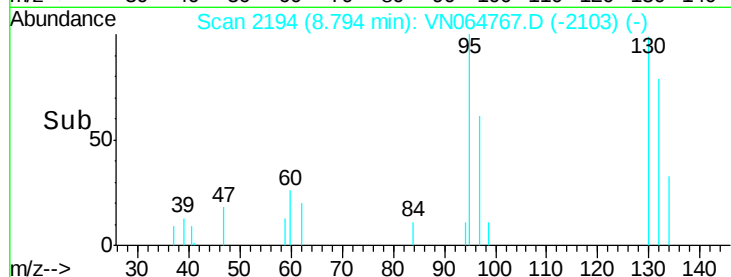
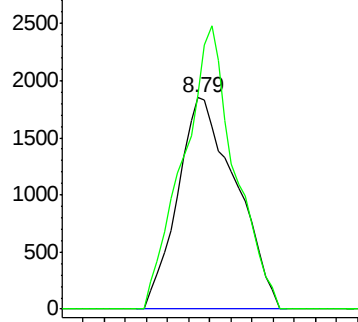
130 100

95 101.2 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: 56.869 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064767.D

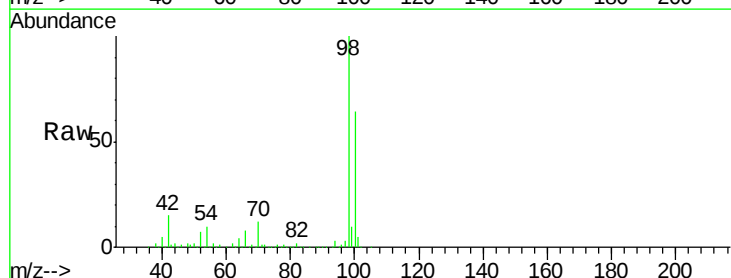
Acq: 20 Nov 2020 7:55

Tgt Ion: 98 Resp: 632975

Ion Ratio Lower Upper

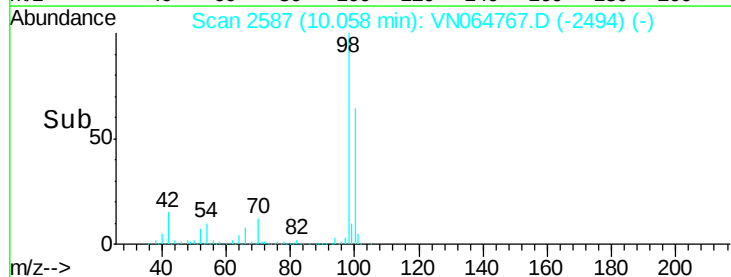
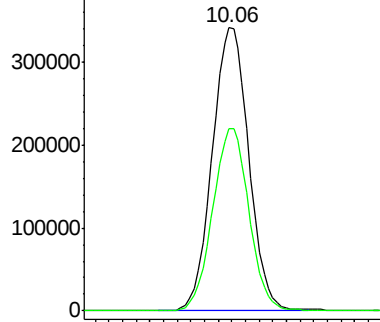
98 100

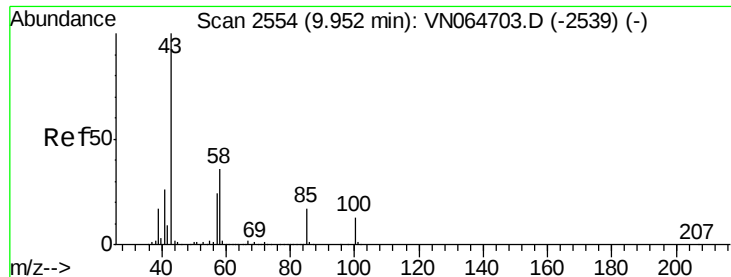
100 64.2 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

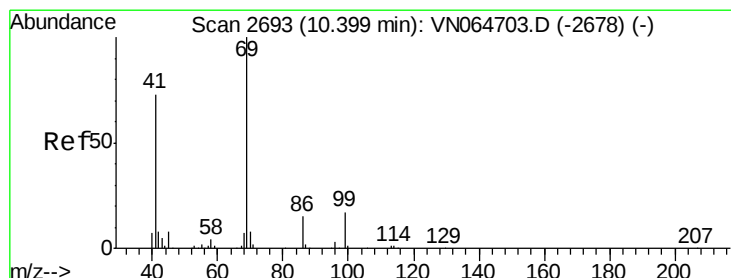
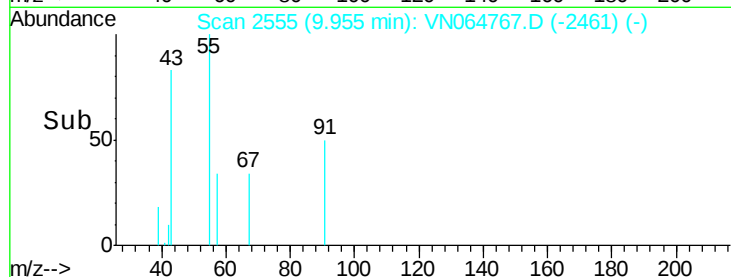
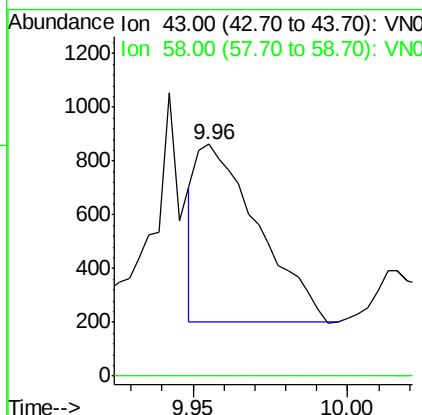
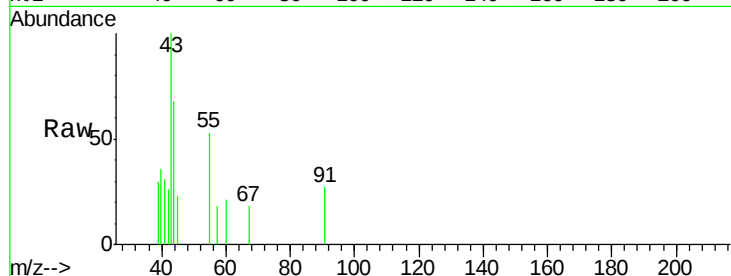




#51
 4-Methyl-2-Pentanone
 Concen: 6.335 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064767.D
 Acq: 20 Nov 2020 7:55

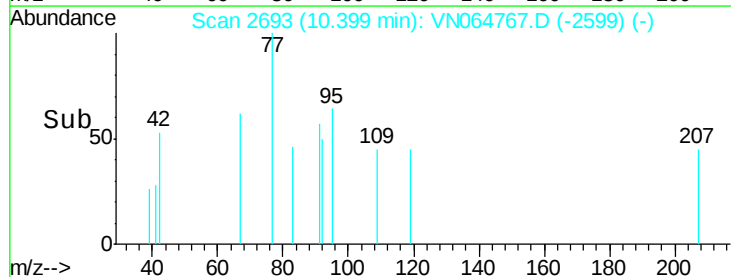
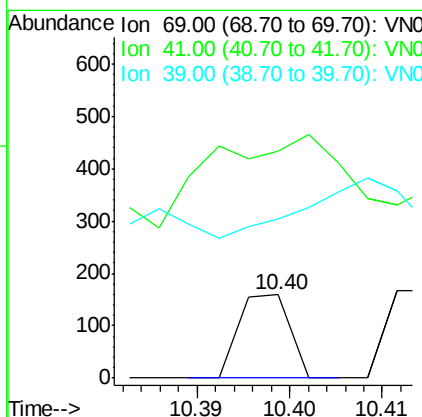
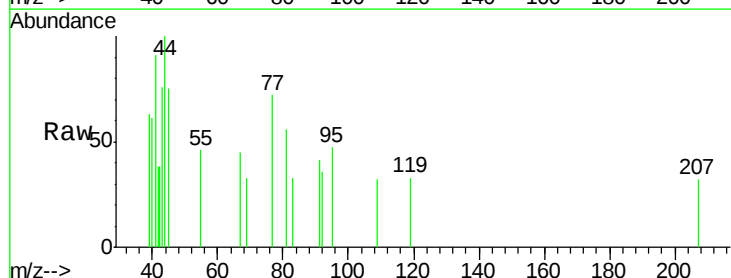
Instrument :
 MSVOA_N
 ClientSampled :
 1643

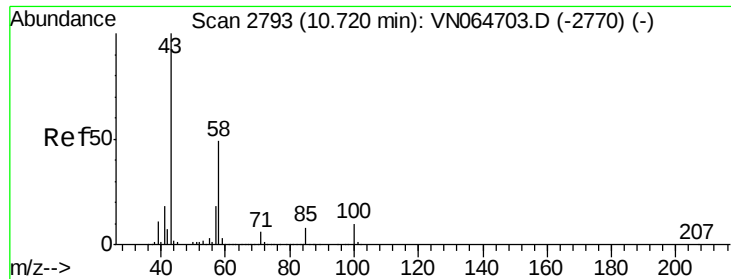
Tgt Ion: 43 Resp: 915
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.5 42.7#



#56
 Ethyl methacrylate
 Concen: 2.686 ug/l
 RT: 10.40 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN064767.D
 Acq: 20 Nov 2020 7:55

Tgt Ion: 69 Resp: 60
 Ion Ratio Lower Upper
 69 100
 41 298.3 59.0 88.4#
 39 0.0 38.4 57.6#

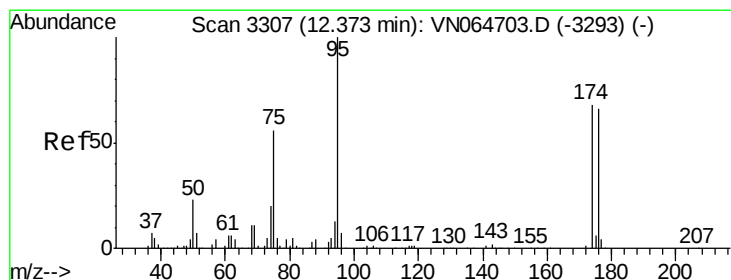
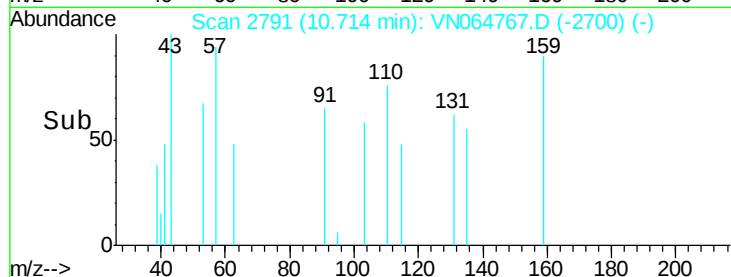
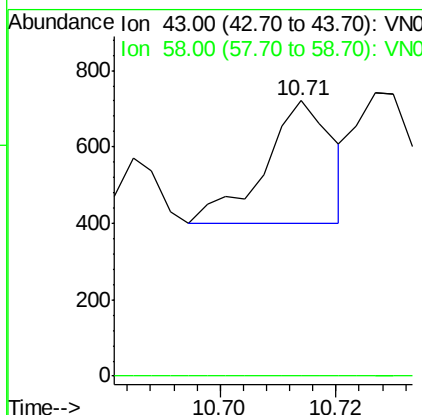
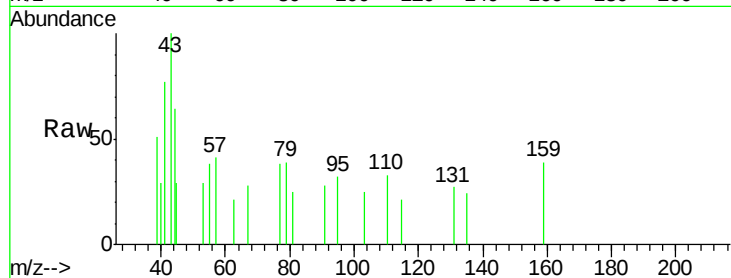




#59
2-Hexanone
Concen: 8.519 ug/l
RT: 10.71 min Scan# 2791
Delta R.T. -0.01 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

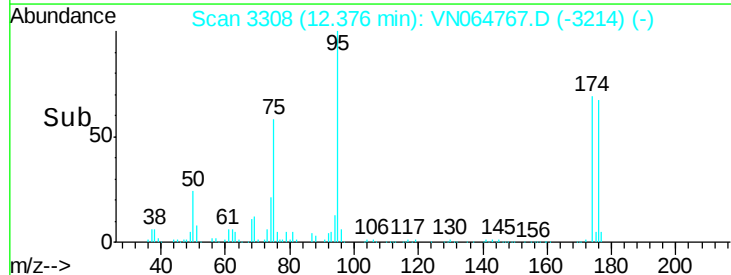
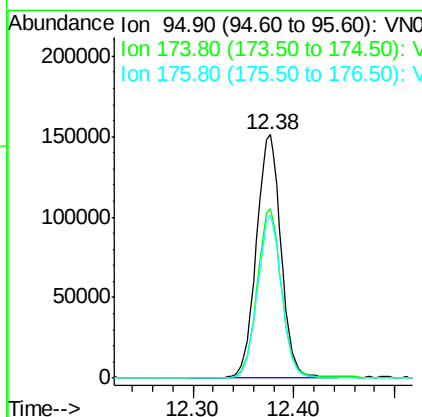
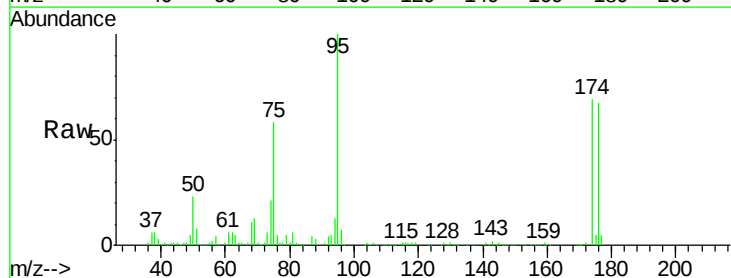
Instrument :
MSVOA_N
ClientSampled :
1643

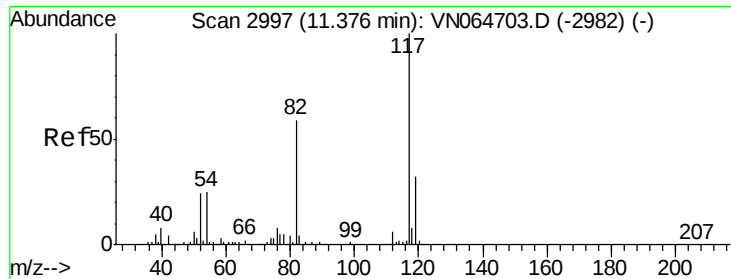
Tgt Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
58 0.0 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 60.919 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Tgt Ion: 95 Resp: 253439
Ion Ratio Lower Upper
95 100
174 68.4 0.0 136.8
176 65.5 0.0 134.2

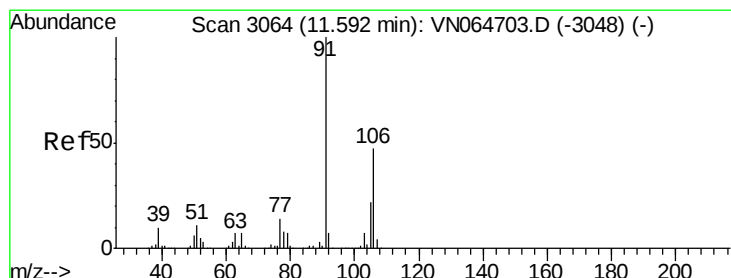
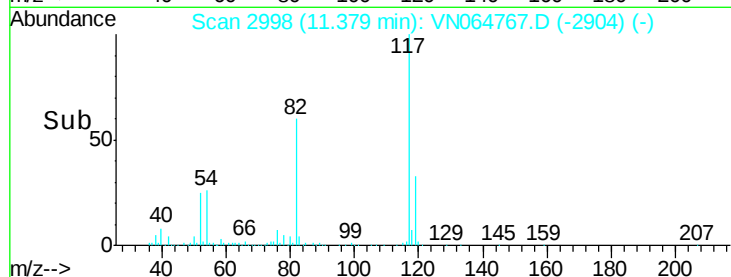
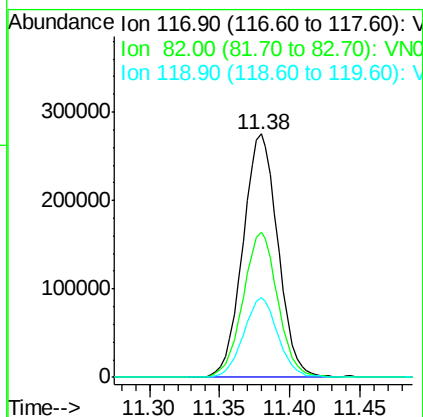
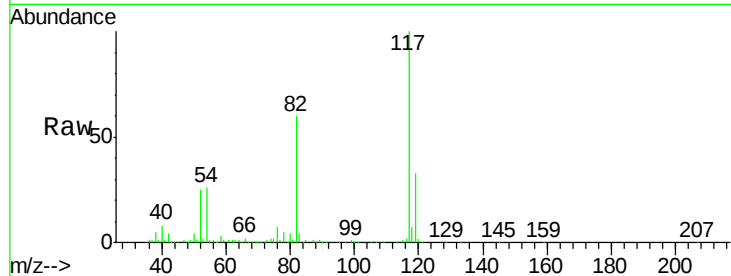




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

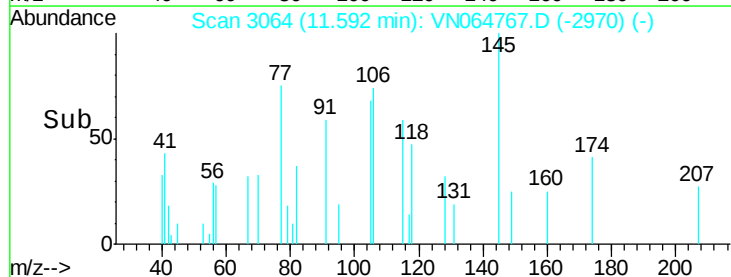
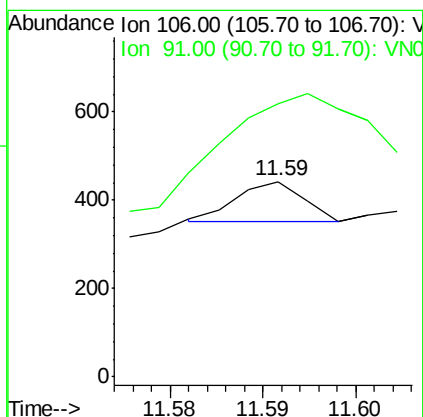
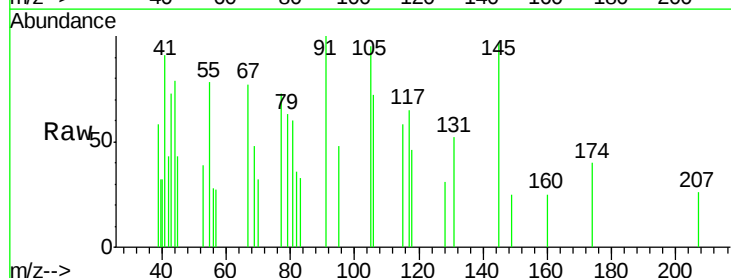
Instrument :
MSVOA_N
ClientSampled :
1643

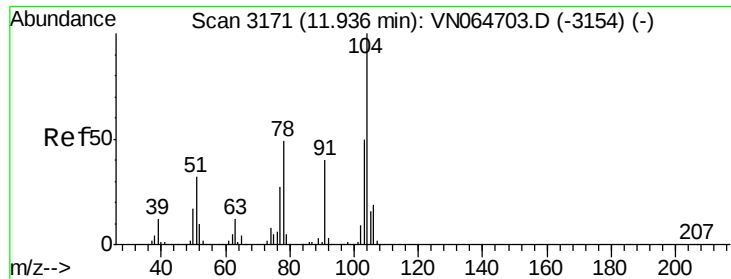
Tgt Ion:117 Resp: 478307
Ion Ratio Lower Upper
117 100
82 59.7 47.0 70.6
119 32.5 25.4 38.2



#68
m/p-Xylenes
Concen: 4.068 ug/l
RT: 11.59 min Scan# 3064
Delta R.T. 0.00 min
Lab File: VN064767.D
Acq: 20 Nov 2020 7:55

Tgt Ion:106 Resp: 44
Ion Ratio Lower Upper
106 100
91 1238.6 171.9 257.9#





#70

Styrene

Concen: 2.539 ug/l

RT: 11.96 min Scan# 3180

Delta R.T. 0.03 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

1643

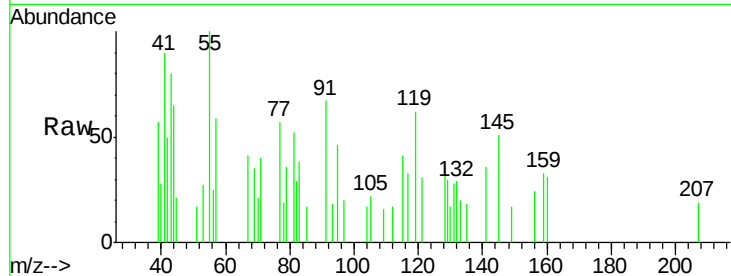
Tgt Ion:104 Resp: 31

Ion Ratio Lower Upper

104 100

78 1009.7 44.1 66.1#

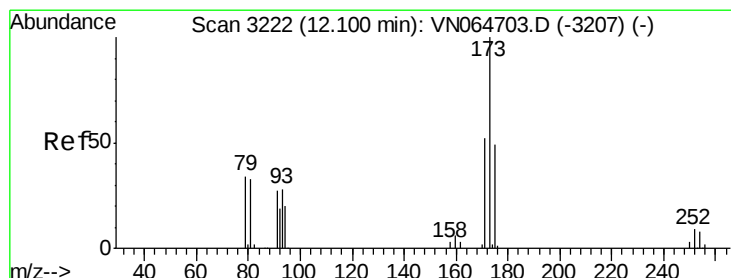
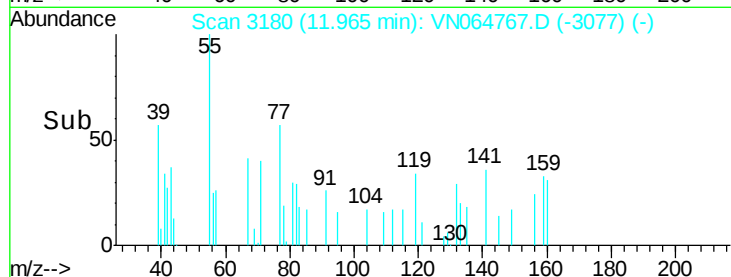
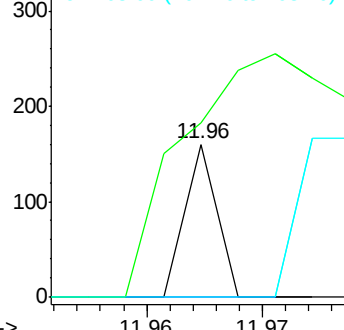
103 206.5 43.7 65.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.529 ug/l

RT: 12.10 min Scan# 3223

Delta R.T. 0.00 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

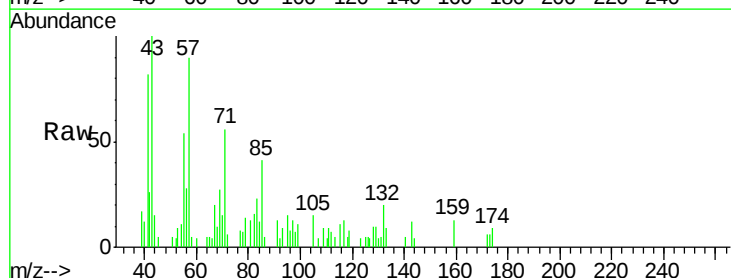
Tgt Ion:173 Resp: 255

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

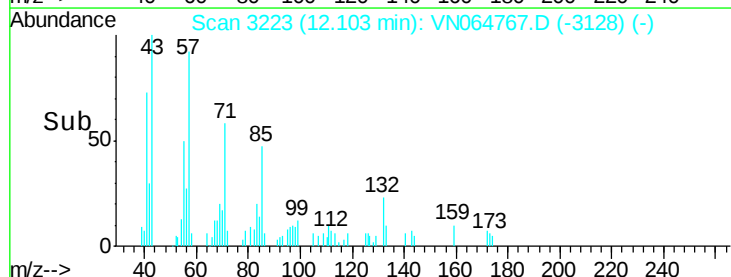
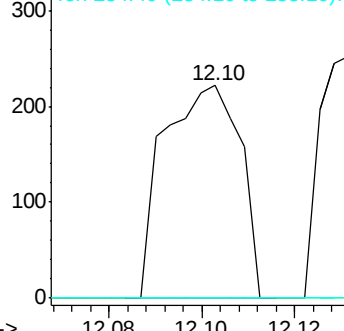
254 0.0 0.1 0.1#

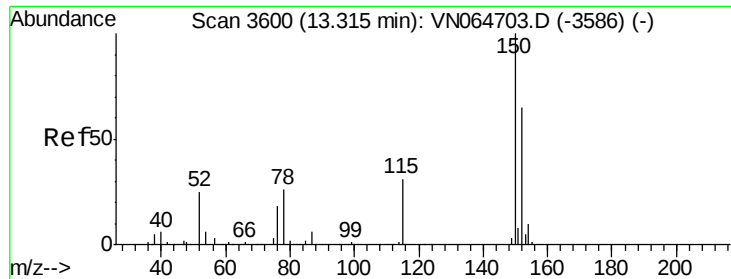


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

1643

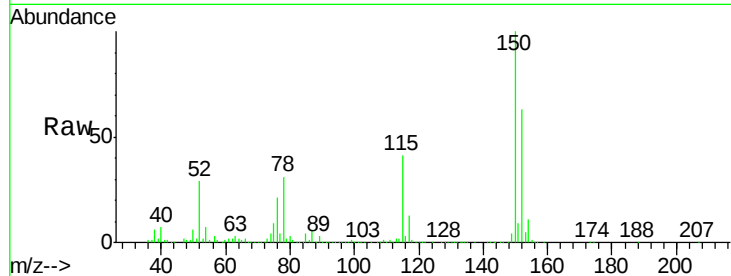
Tgt Ion:152 Resp: 223263

Ion Ratio Lower Upper

152 100

115 64.6 32.1 96.3

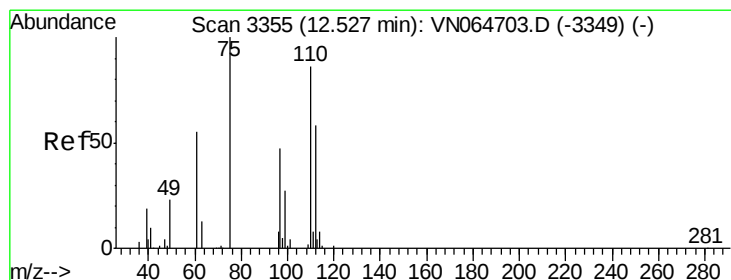
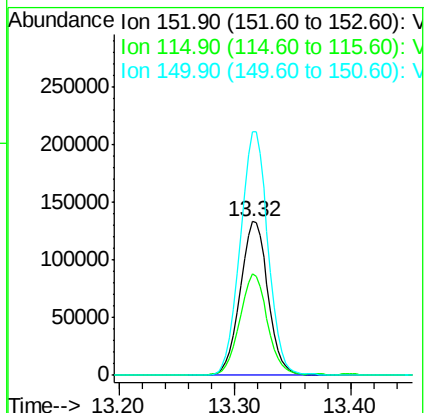
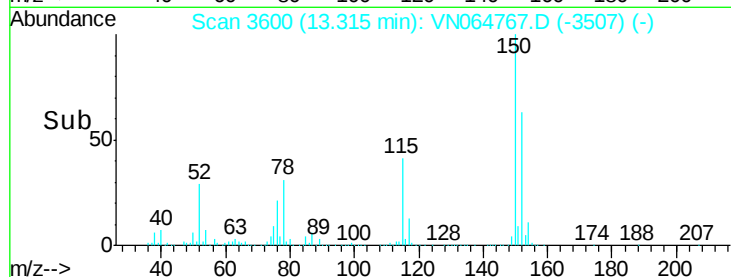
150 157.2 0.0 344.8



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: 29.918 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064767.D

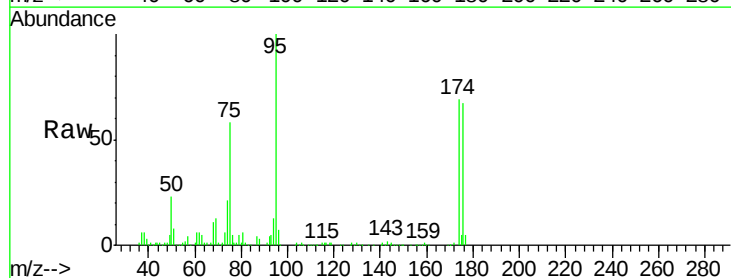
Acq: 20 Nov 2020 7:55

Tgt Ion: 75 Resp: 143920

Ion Ratio Lower Upper

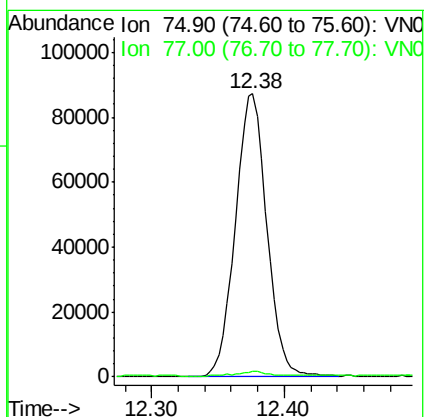
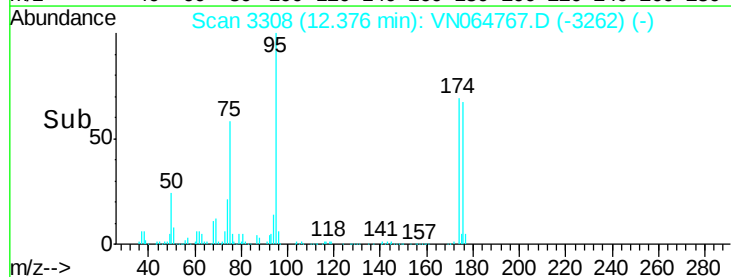
75 100

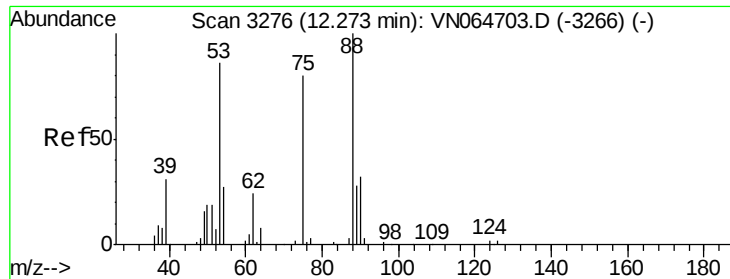
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.269 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampleId :

1643

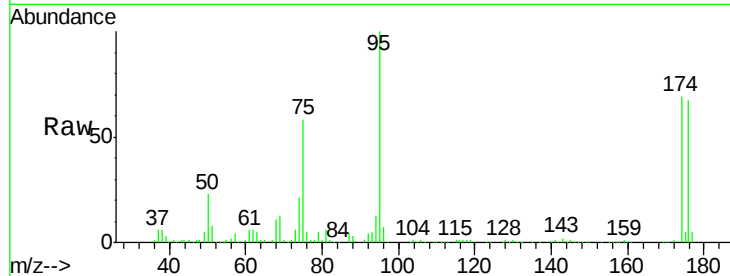
Tgt Ion: 75 Resp: 143920

Ion Ratio Lower Upper

75 100

53 0.1 88.8 133.2#

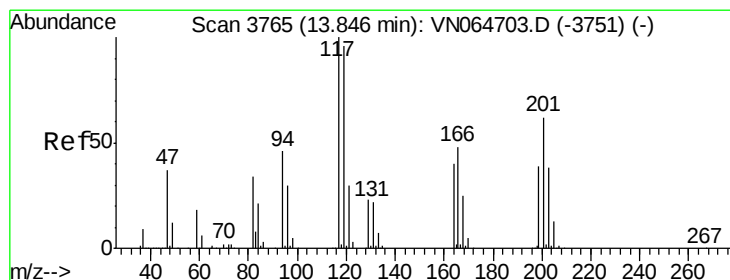
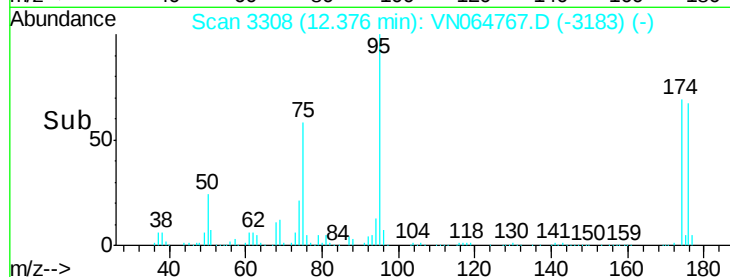
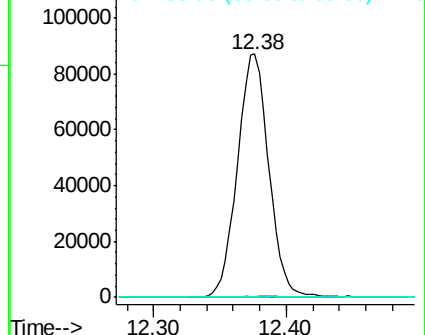
89 0.0 43.1 64.7#



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



#90

Hexachloroethane

Concen: 0.263 ug/l

RT: 13.86 min Scan# 3770

Delta R.T. 0.02 min

Lab File: VN064767.D

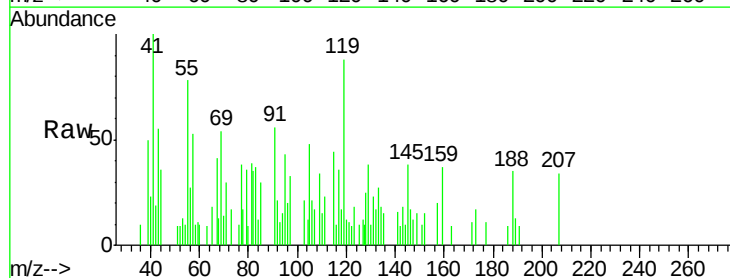
Acq: 20 Nov 2020 7:55

Tgt Ion: 117 Resp: 542

Ion Ratio Lower Upper

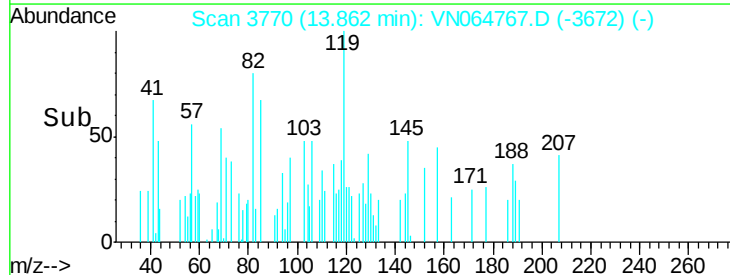
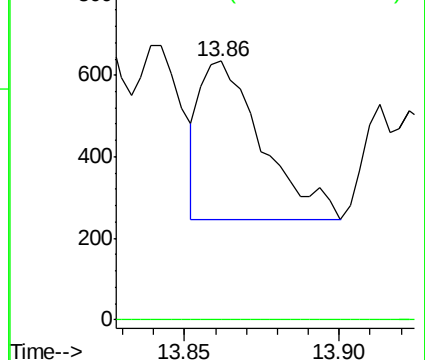
117 100

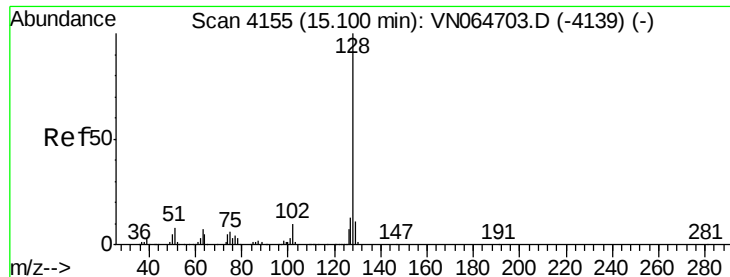
201 0.0 31.9 95.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 0.246 ug/l

RT: 15.10 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Instrument :

MSVOA_N

ClientSampled :

1643

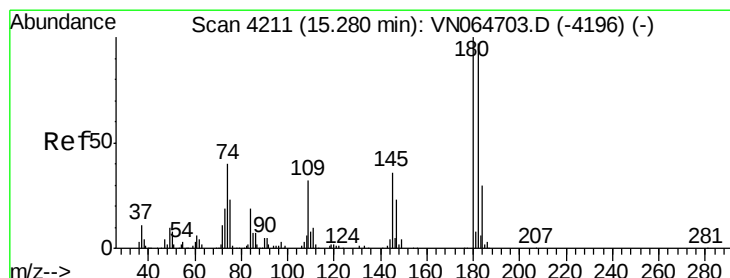
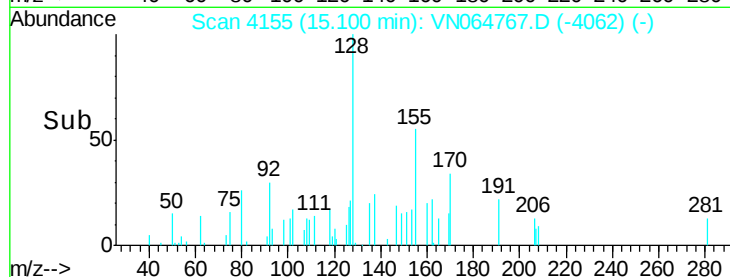
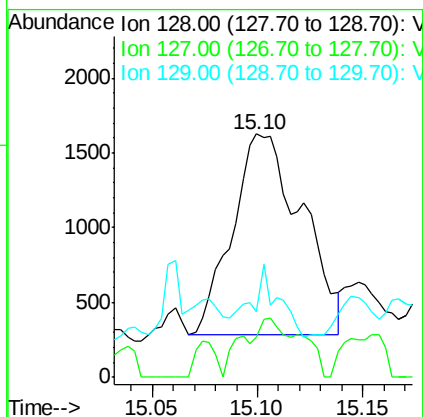
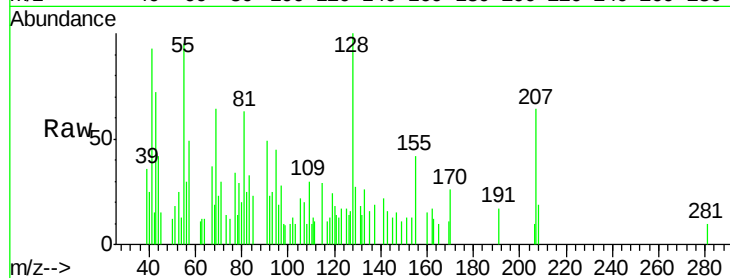
Tgt Ion:128 Resp: 3083

Ion Ratio Lower Upper

128 100

127 24.3 10.8 16.2#

129 12.9 8.9 13.3



#96

1,2,3-Trichlorobenzene

Concen: 0.774 ug/l

RT: 15.37 min Scan# 4238

Delta R.T. 0.09 min

Lab File: VN064767.D

Acq: 20 Nov 2020 7:55

Tgt Ion:180 Resp: 60

Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.5#

145 345.0 18.1 54.1#

