

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064154.D
 Acq On : 15 Oct 2020 19:31
 Operator : JC/MD
 Sample : L4417-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

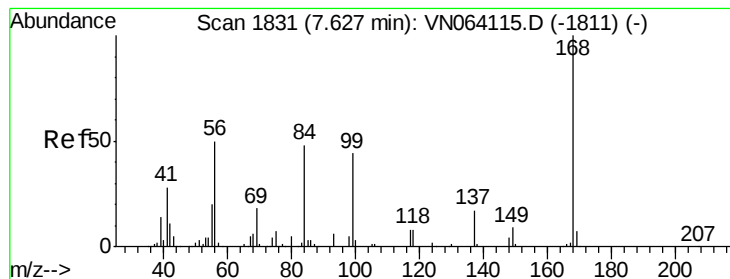
Quant Time: Oct 16 02:27:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	271802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	527210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	536084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	191648	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	216313	55.88	ug/l	0.00
Spiked Amount			Recovery	=	111.76%	
35) Dibromofluoromethane	7.55	113	180615	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	10.06	98	683386	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	12.38	95	225911	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	736	0.247	ug/l #	18
11) Tert butyl alcohol	4.73	59	416	0.971	ug/l #	71
13) Acrolein	3.76	56	17076	48.504	ug/l #	58
14) Allyl chloride	4.48	41	37497	8.877	ug/l #	20
16) Acetone	3.77	43	52584	45.796	ug/l #	65
18) Methyl Acetate	4.49	43	78930	27.404	ug/l #	51
20) Methylene Chloride	4.49	84	2190	0.616	ug/l #	39
25) 2-Butanone	6.77	43	1438	0.814	ug/l #	47
31) Cyclohexane	7.63	56	6869	1.605	ug/l #	11
36) 1,1-Dichloropropene	7.62	75	22705	4.468	ug/l #	46
38) Carbon Tetrachloride	7.63	117	27482	5.029	ug/l #	18
43) Isopropyl Acetate	8.12	43	2637	0.352	ug/l #	54
48) Methyl methacrylate	9.19	41	1765	0.511	ug/l #	21
56) Ethyl methacrylate	10.50	69	69	2.310	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.68	63	71	12.243	ug/l #	48
59) 2-Hexanone	10.74	43	63	6.856	ug/l #	24
60) Dibromochloromethane	10.61	129	1713	0.389	ug/l #	11
64) Tetrachloroethene	10.60	164	1143	0.283	ug/l #	83
68) m/p-Xylenes	11.59	106	68	2.200	ug/l	80
71) Bromoform	12.36	173	210	2.287	ug/l #	30
76) 1,2,3-Trichloropropane	12.38	75	118881	26.440	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118881	80.780	ug/l #	12
86) p-Isopropyltoluene	13.27	119	32	0.665	ug/l #	50

(#) = 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: VN064154.D

Acq: 15 Oct 2020 19:31

Instrument :

MSVOA_N

ClientSampled :

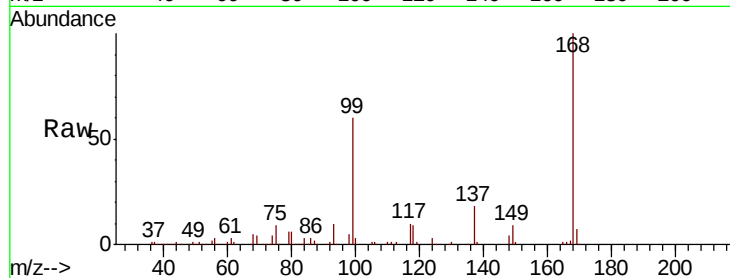
MW-2

Tot Ion:168 Resp: 271802

Ion Ratio Lower Upper

168 100

99 59.9 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN064115.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064115.D (-1811) (-)

7.63

120000

100000

80000

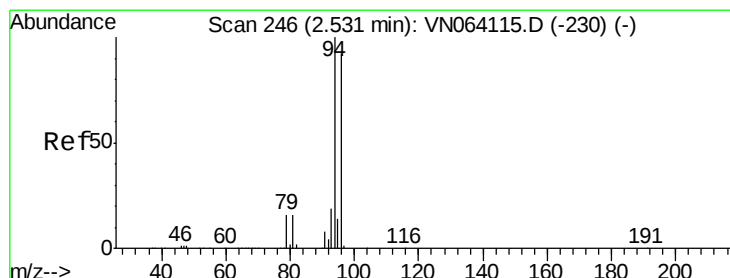
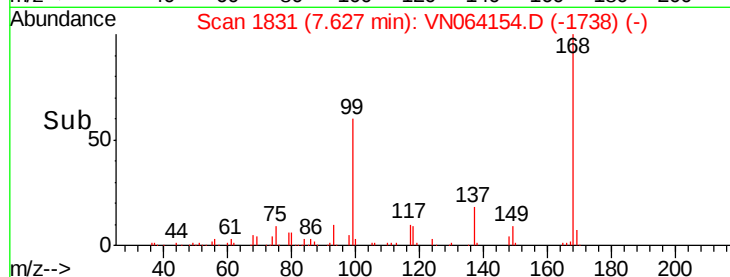
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.247 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN064154.D

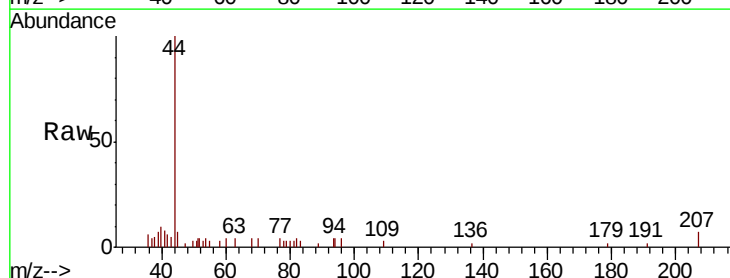
Acq: 15 Oct 2020 19:31

Tgt Ion: 94 Resp: 736

Ion Ratio Lower Upper

94 100

96 13.4 73.5 110.3#



Abundance Ion 93.90 (93.60 to 94.60): VN064115.D (-230) (-)

Ion 95.90 (95.60 to 96.60): VN064115.D (-230) (-)

2.54

600

500

400

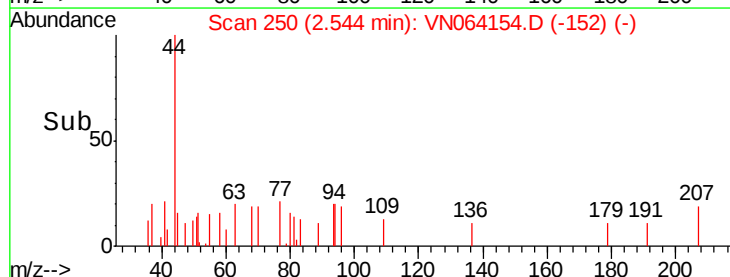
300

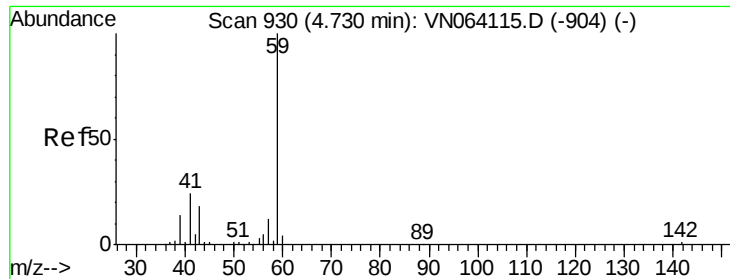
200

100

0

Time--> 2.52 2.54 2.56 2.58

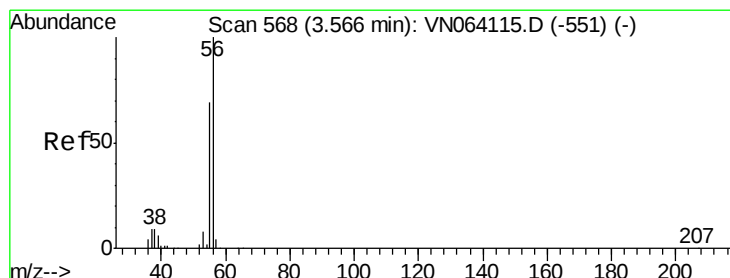
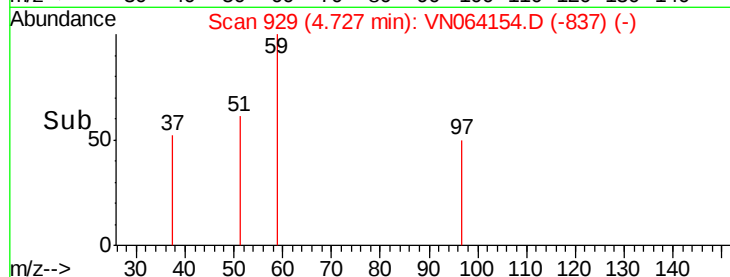
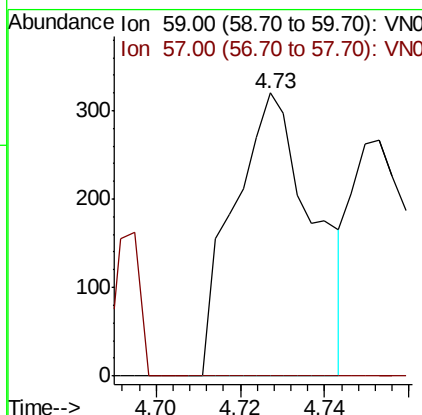
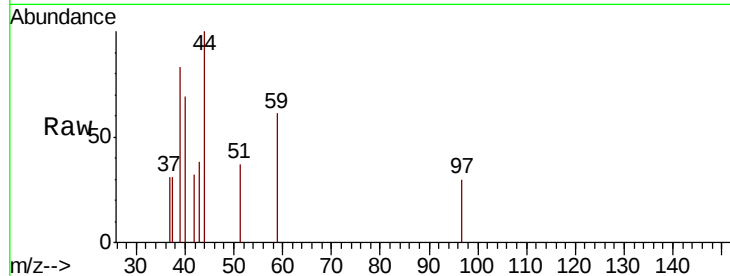




#11
Tert butyl alcohol
Concen: 0.971 ug/l
RT: 4.73 min Scan# 929
Delta R.T. -0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

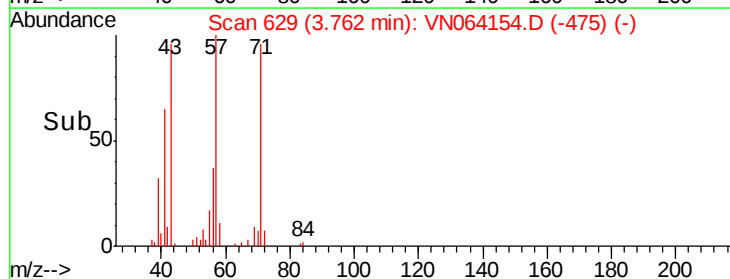
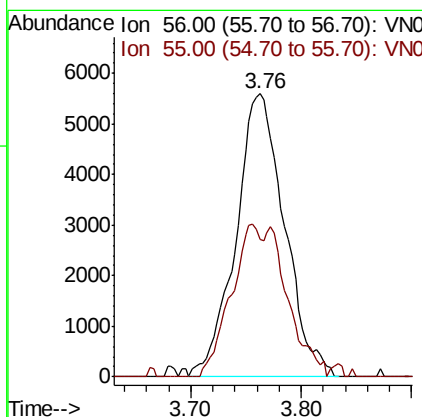
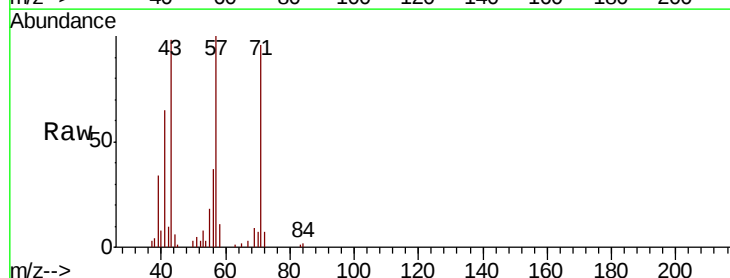
Instrument :
MSVOA_N
ClientSampled :
MW-2

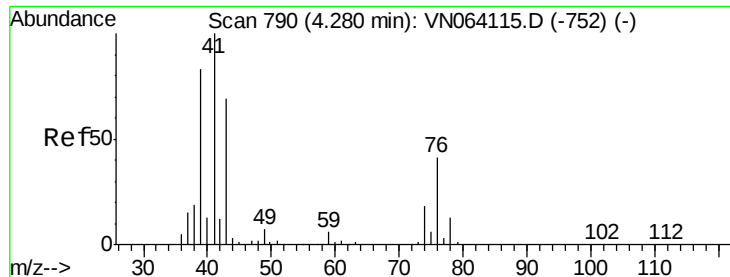
Tot Ion: 59 Resp: 416
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#13
Acrolein
Concen: 48.504 ug/l
RT: 3.76 min Scan# 629
Delta R.T. 0.20 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 56 Resp: 17076
Ion Ratio Lower Upper
56 100
55 34.9 55.8 83.6#

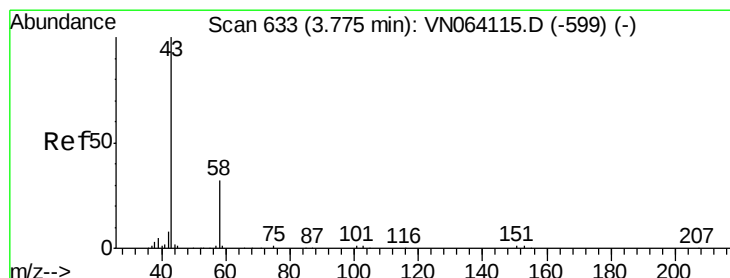
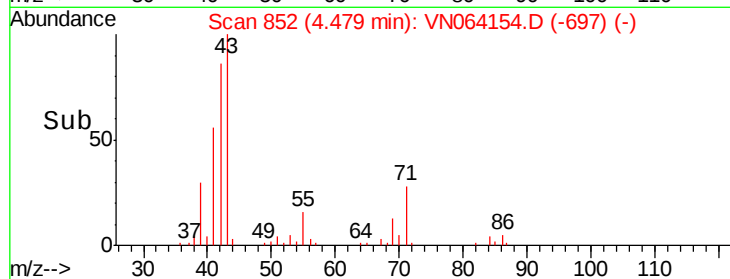
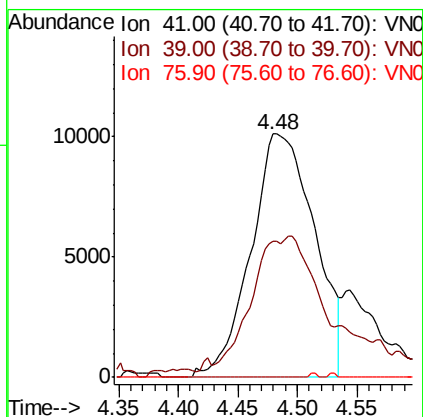
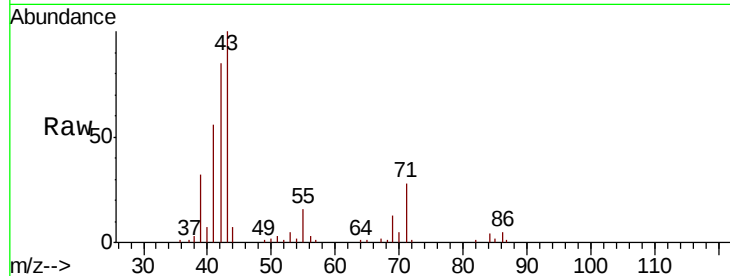




#14
Allvl chloride
Concen: 8.877 ug/l
RT: 4.48 min Scan# 852
Delta R.T. 0.20 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

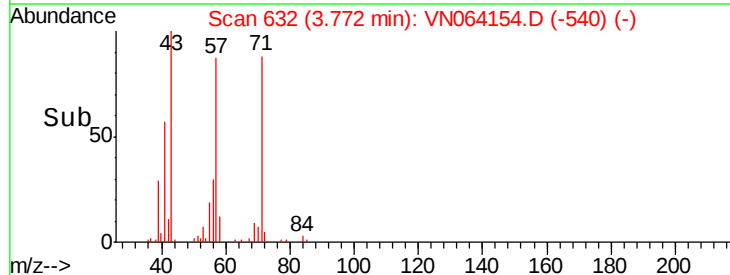
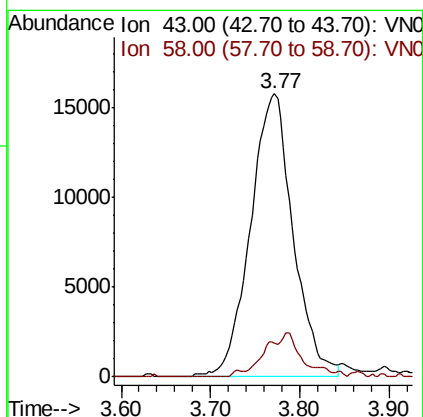
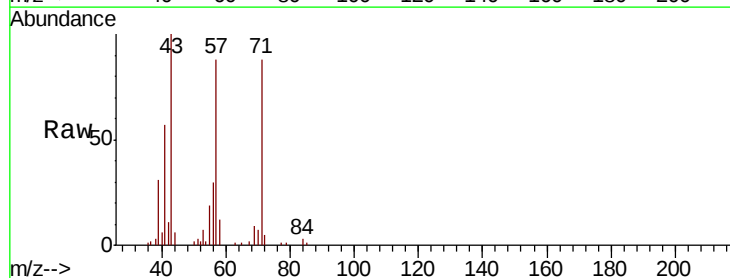
Instrument :
MSVOA_N
ClientSampled :
MW-2

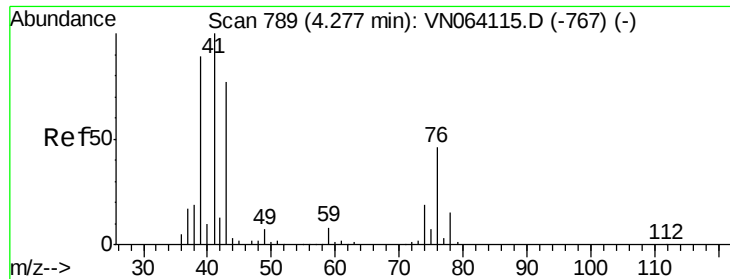
Tot Ion: 41 Resp: 37497
Ion Ratio Lower Upper
41 100
39 0.0 60.5 90.7#
76 0.0 29.5 44.3#



#16
Acetone
Concen: 45.796 ug/l
RT: 3.77 min Scan# 632
Delta R.T. -0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 43 Resp: 52584
Ion Ratio Lower Upper
43 100
58 11.9 25.2 37.8#

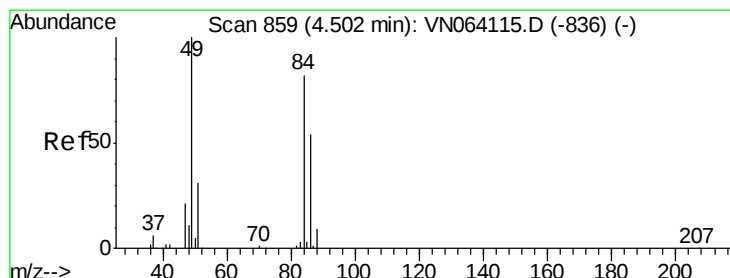
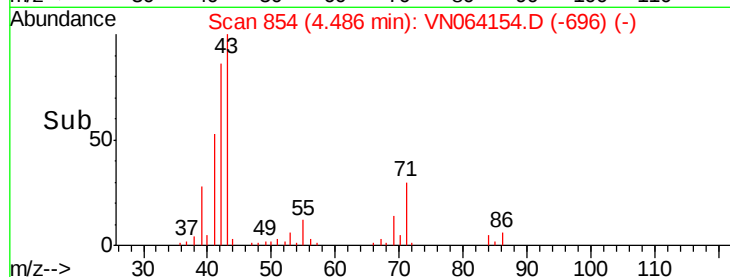
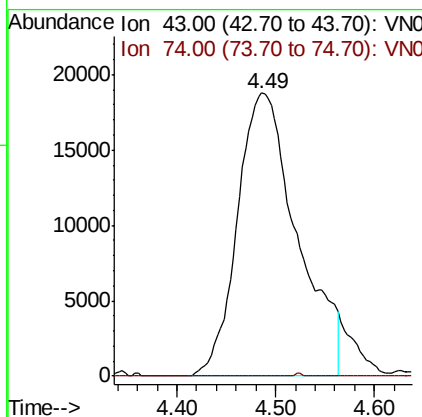
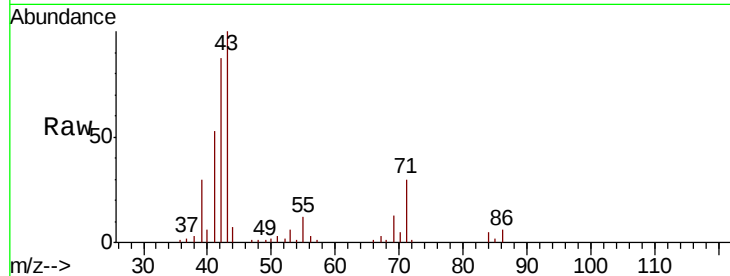




#18
Methyl Acetate
Concen: 27.404 ug/l
RT: 4.49 min Scan# 854
Delta R.T. 0.21 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

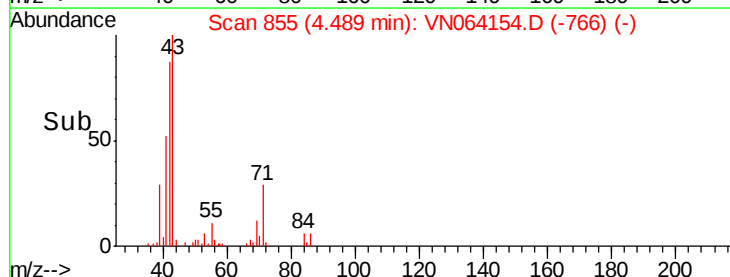
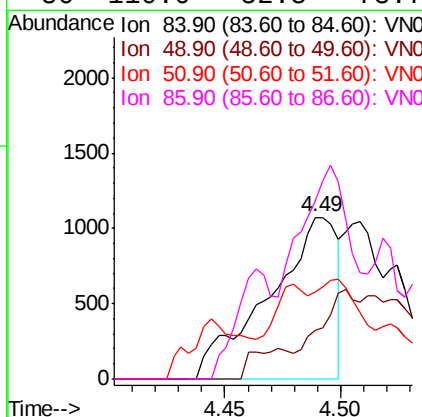
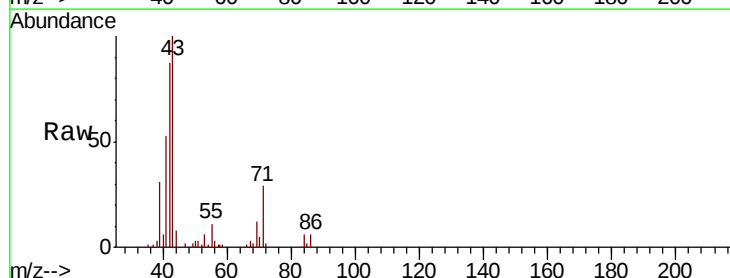
Instrument :
MSVOA_N
ClientSampled :
MW-2

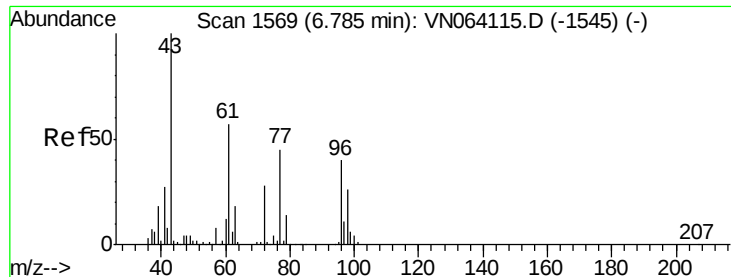
Tot Ion: 43 Resp: 78930
Ion Ratio Lower Upper
43 100
74 0.0 19.7 29.5#



#20
Methylene Chloride
Concen: 0.616 ug/l
RT: 4.49 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 84 Resp: 2190
Ion Ratio Lower Upper
84 100
49 30.3 97.4 146.0#
51 38.4 29.7 44.5
86 110.0 52.5 78.7#





#25

2-Butanone

Concen: 0.814 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN064154.D

Acq: 15 Oct 2020 19:31

Instrument :

MSVOA_N

ClientSampled :

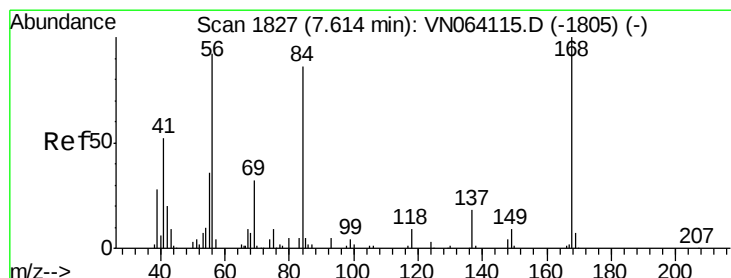
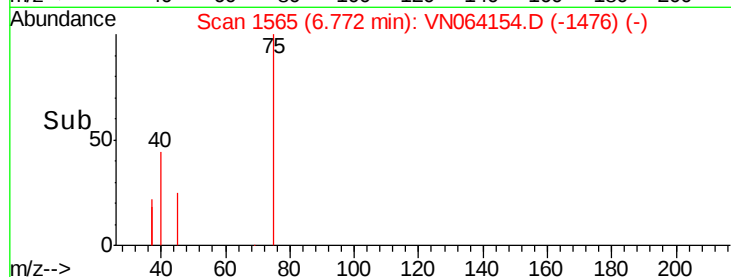
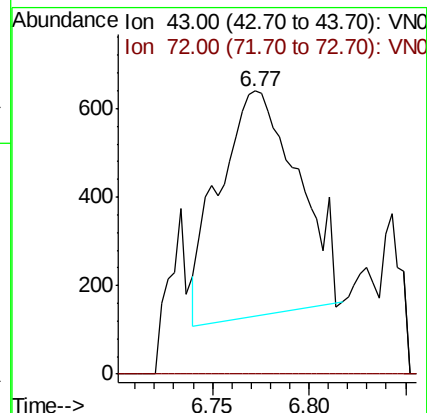
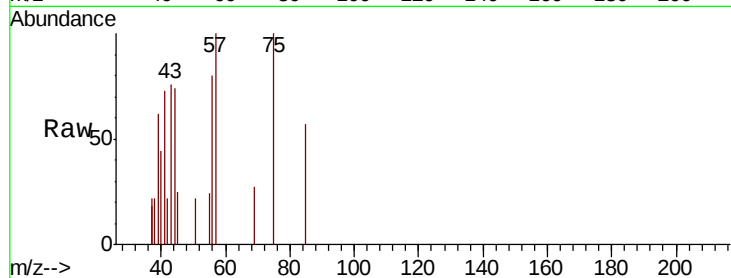
MW-2

Tot Ion: 43 Resp: 1438

Ion Ratio Lower Upper

43 100

72 0.0 22.2 33.2#



#31

Cyclohexane

Concen: 1.605 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064154.D

Acq: 15 Oct 2020 19:31

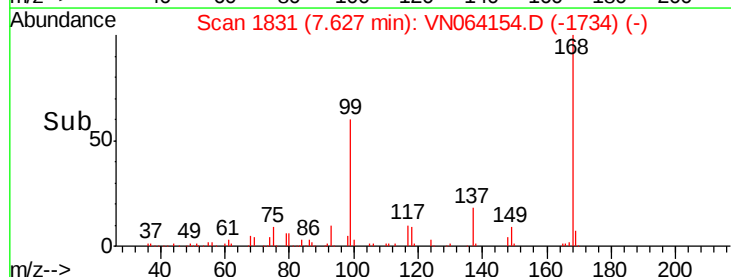
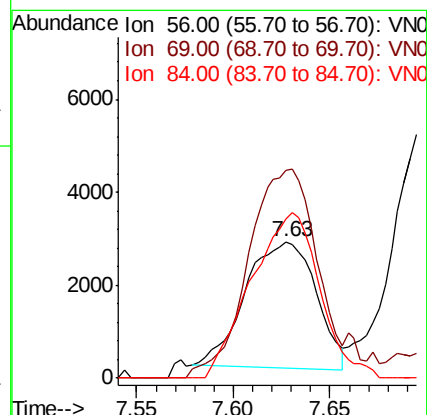
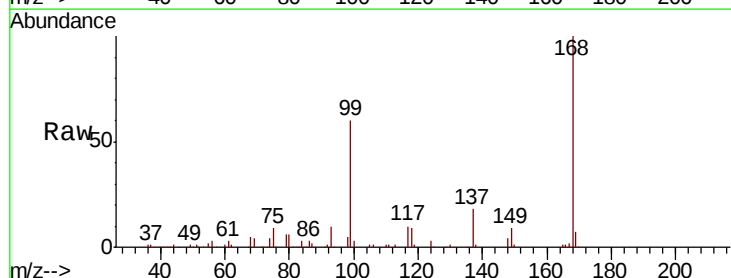
Tgt Ion: 56 Resp: 6869

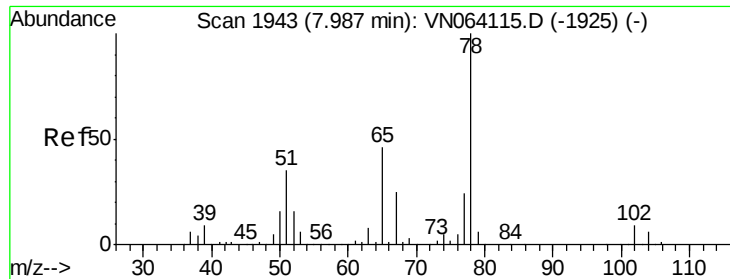
Ion Ratio Lower Upper

56 100

69 160.9 27.8 41.6#

84 129.5 73.2 109.8#

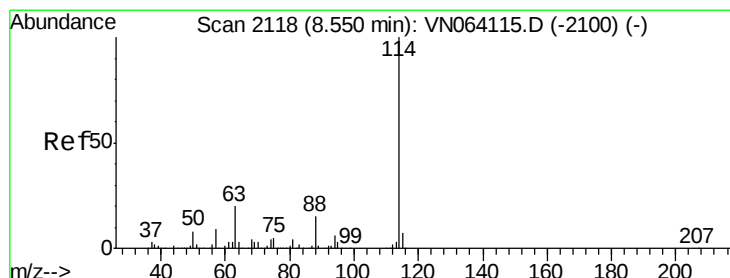
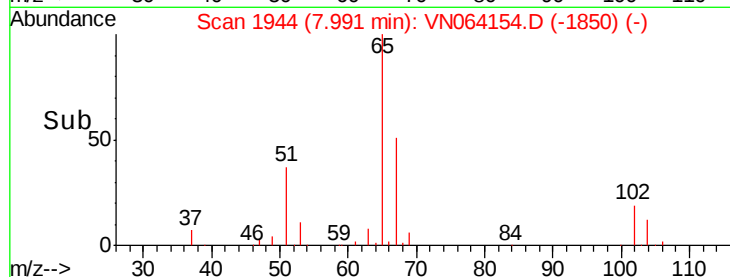
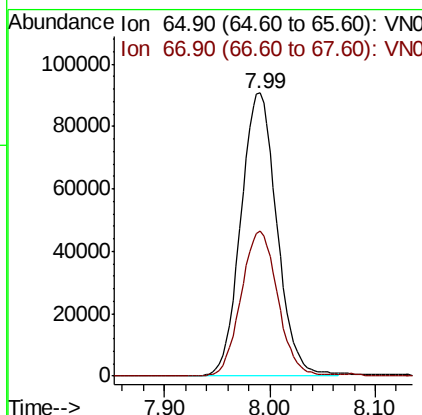
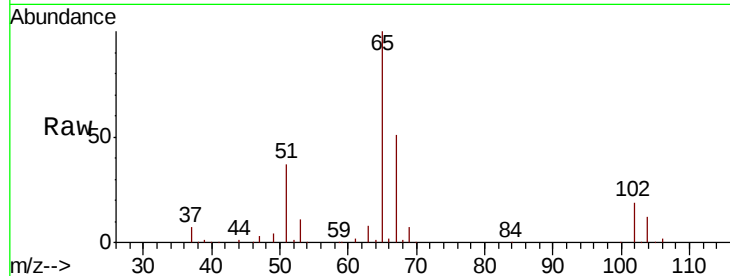




#33
 1,2-Dichloroethane-d4
 Concen: 55.880 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064154.D
 Acq: 15 Oct 2020 19:31

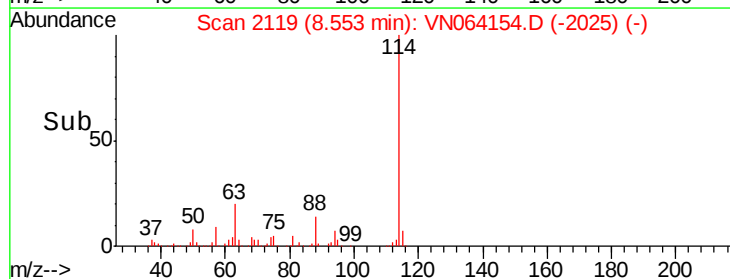
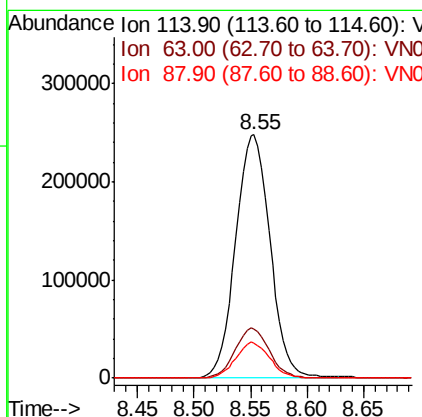
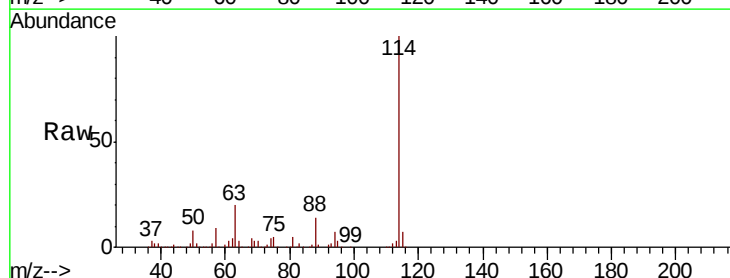
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

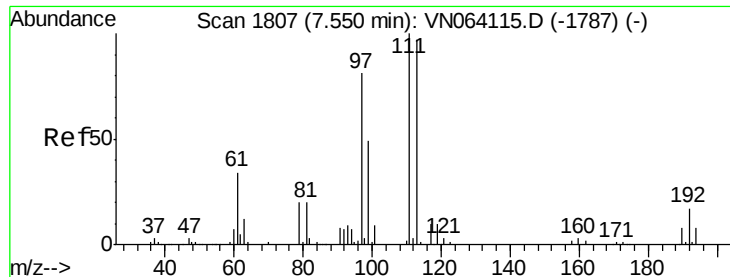
Tot Ion: 65 Resp: 216313
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064154.D
 Acq: 15 Oct 2020 19:31

Tgt Ion: 114 Resp: 527210
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.0
 88 14.5 0.0 29.2

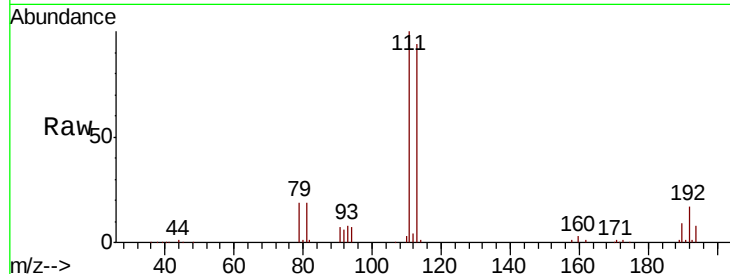




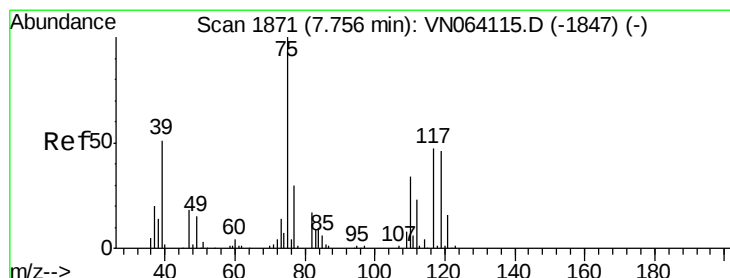
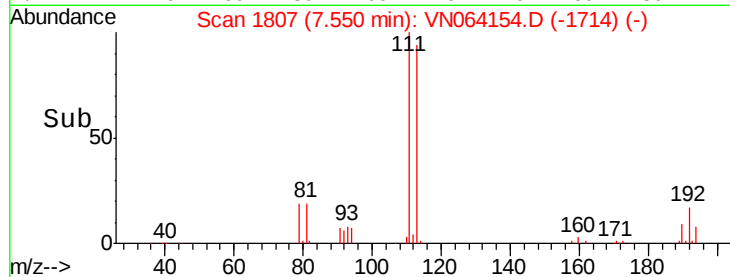
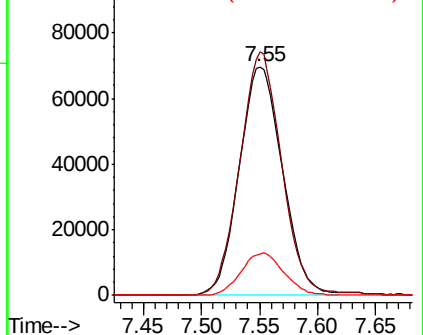
#35
 Dibromofluoromethane
 Concen: 49.496 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064154.D
 Acq: 15 Oct 2020 19:31

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.9	122.9
192	18.5	14.3	21.5

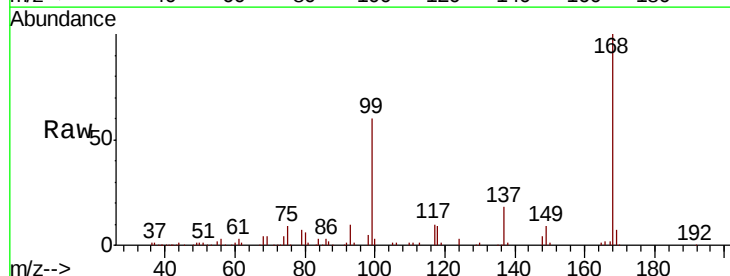


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

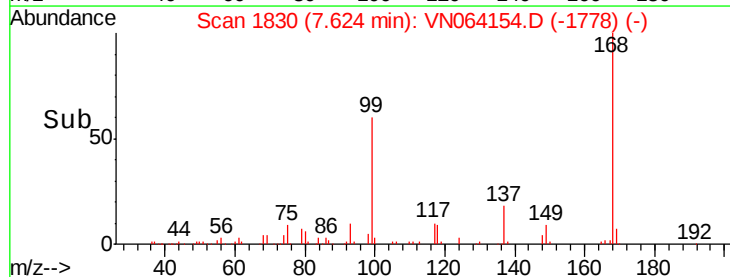
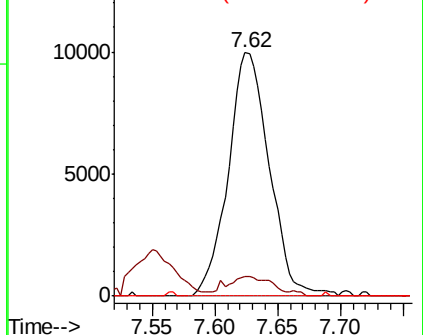


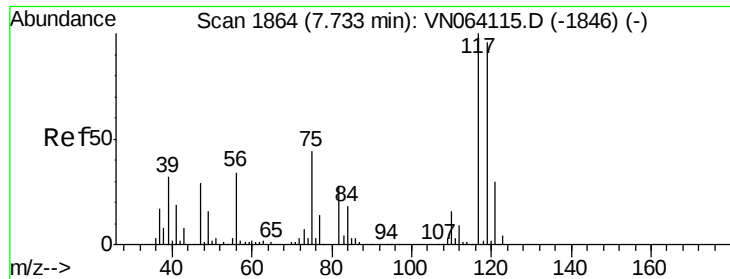
#36
 1,1-Dichloropropene
 Concen: 4.468 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064154.D
 Acq: 15 Oct 2020 19:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.4	17.8	53.3#
77	0.0	24.9	37.3#



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

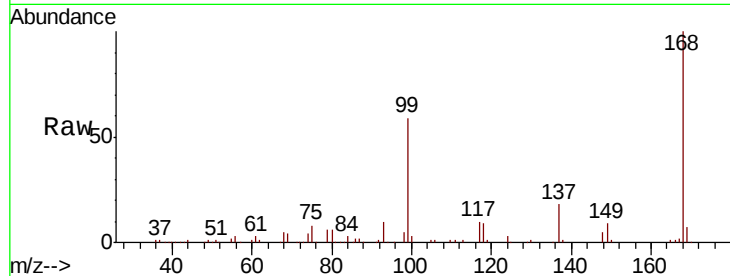




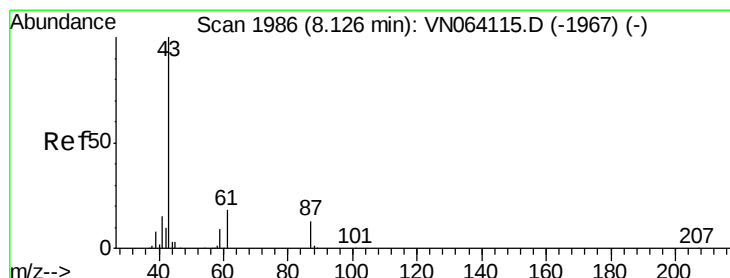
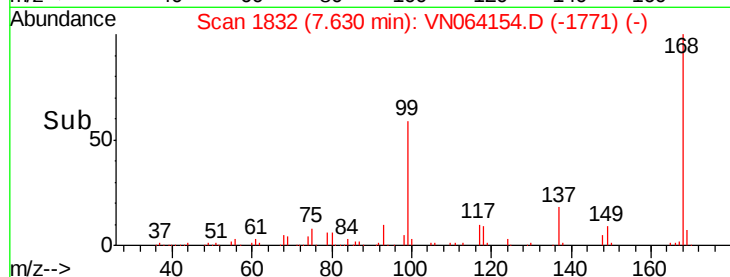
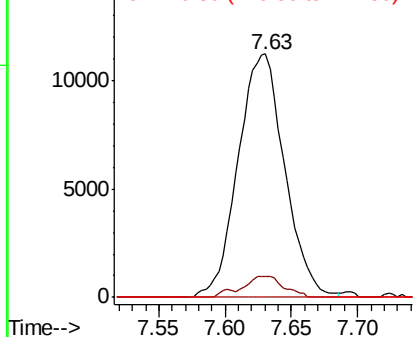
#38
Carbon Tetrachloride
Concen: 5.029 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:117 Resp: 27482
Ion Ratio Lower Upper
117 100
119 8.4 77.0 115.4#
121 0.0 24.2 36.4#

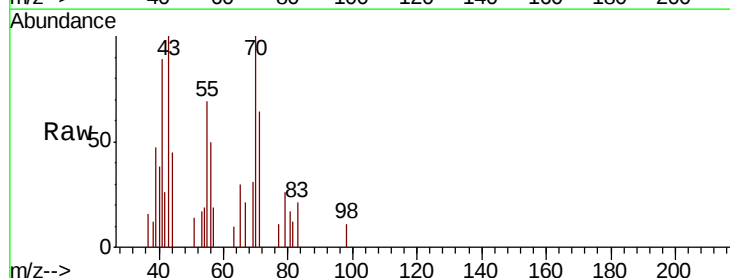


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

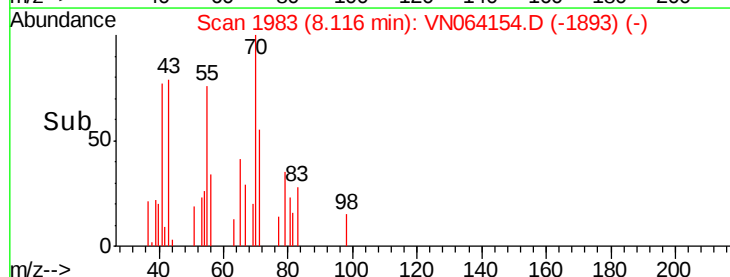
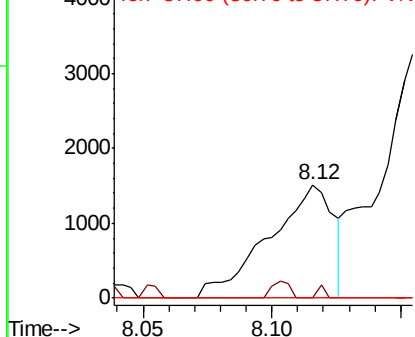


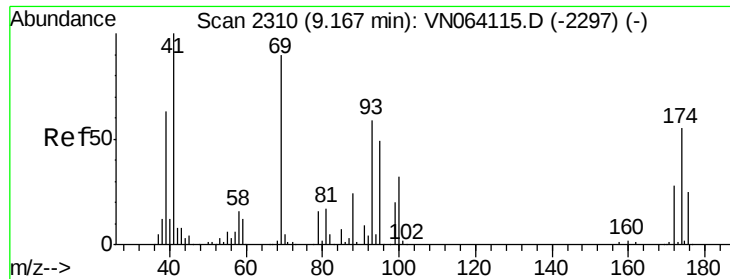
#43
Isopropyl Acetate
Concen: 0.352 ug/l
RT: 8.12 min Scan# 1983
Delta R.T. -0.01 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 43 Resp: 2637
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 11.0 16.4#



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

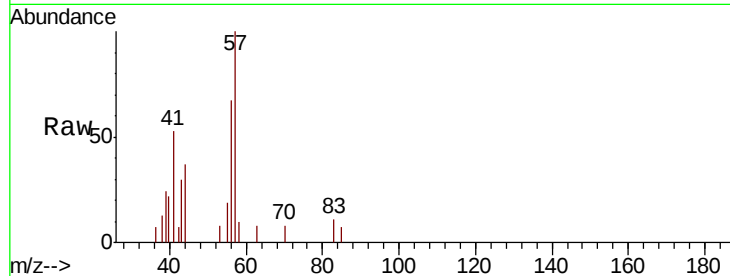




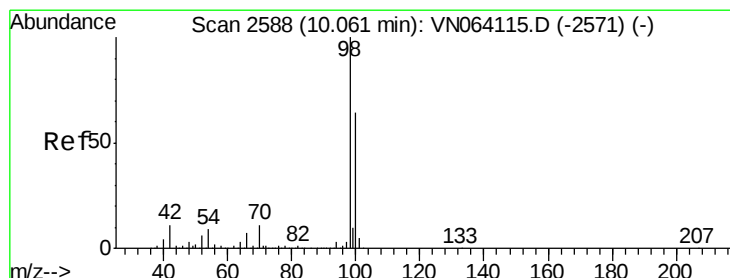
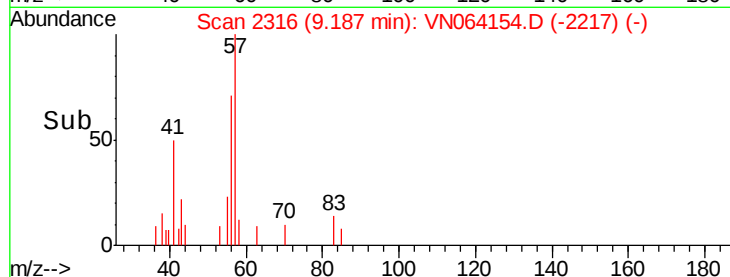
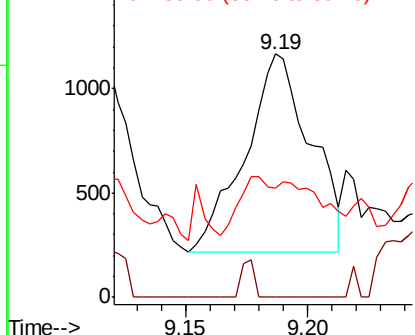
#48
Methvl methacrylate
Concen: 0.511 ug/l
RT: 9.19 min Scan# 2316
Delta R.T. 0.02 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion: 41 Resp: 1765
Ion Ratio Lower Upper
41 100
69 3.8 71.4 107.2#
39 15.6 52.5 78.7#

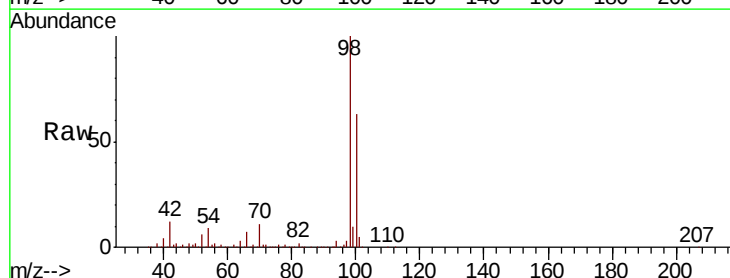


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

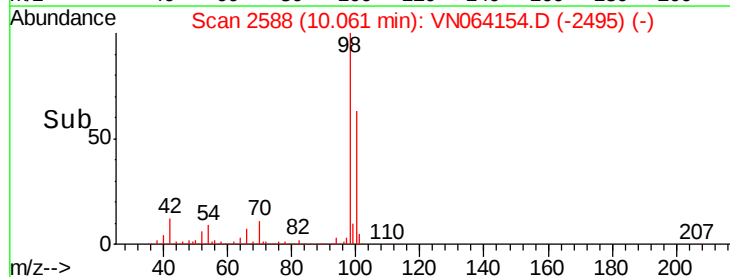
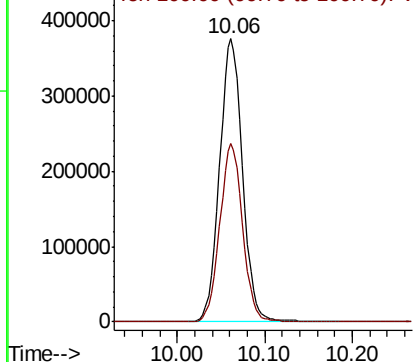


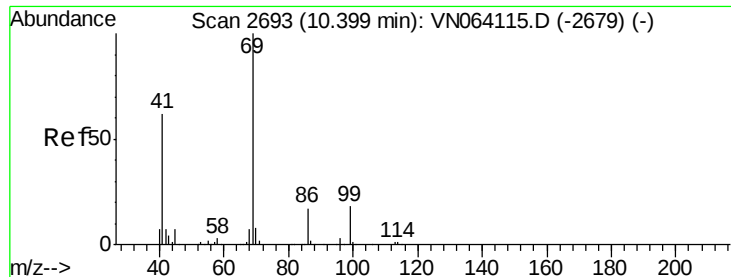
#50
Toluene-d8
Concen: 49.634 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 98 Resp: 683386
Ion Ratio Lower Upper
98 100
100 62.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

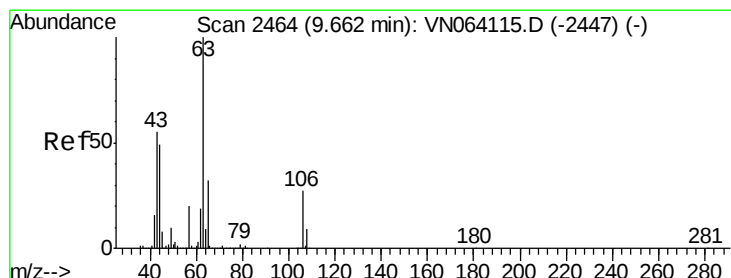
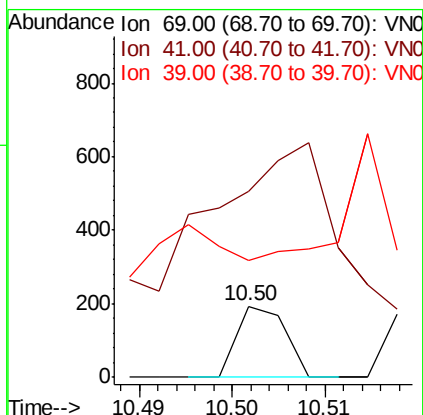
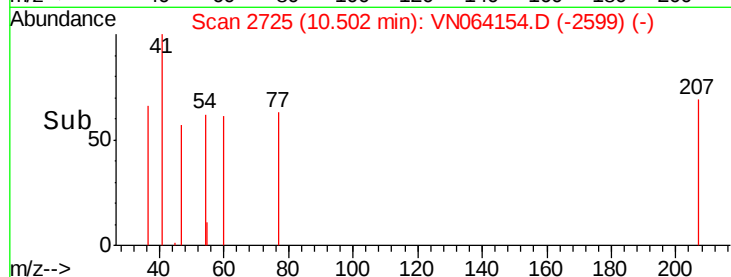
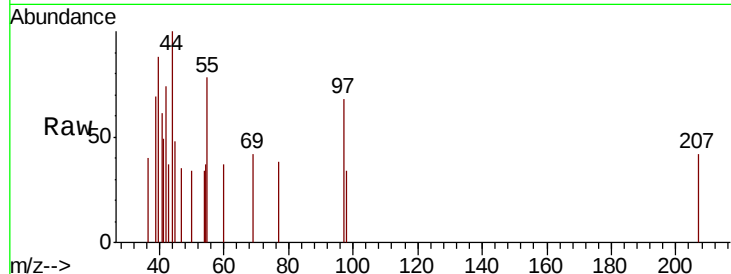




#56
Ethyl methacrylate
Concen: 2.310 ug/l
RT: 10.50 min Scan# 2725
Delta R.T. 0.10 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

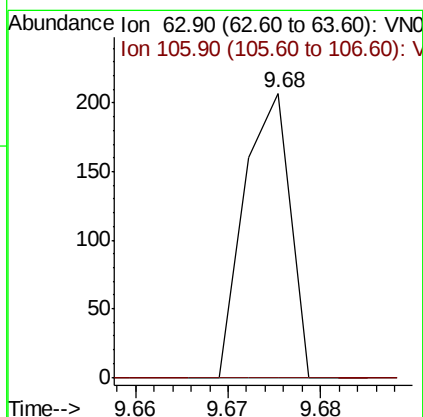
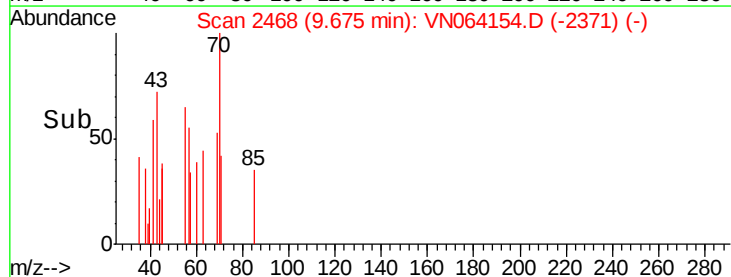
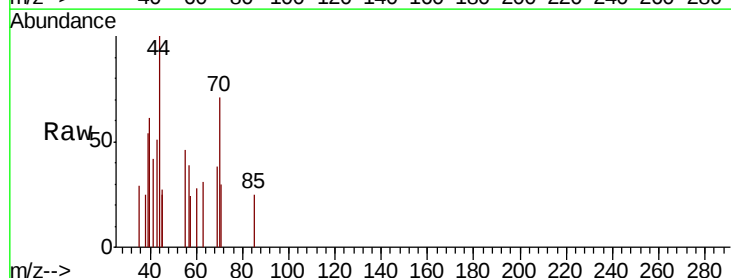
Instrument :
MSVOA_N
ClientSampled :
MW-2

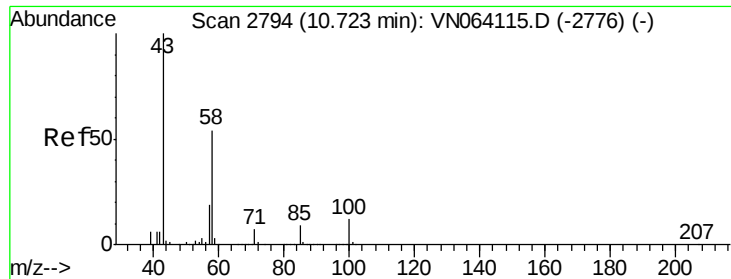
Tot Ion: 69 Resp: 69
Ion Ratio Lower Upper
69 100
41 931.9 49.3 73.9#
39 178.3 32.7 49.1#



#58
2-Chloroethyl Vinyl ether
Concen: 12.243 ug/l
RT: 9.68 min Scan# 2468
Delta R.T. 0.01 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 63 Resp: 71
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.6#

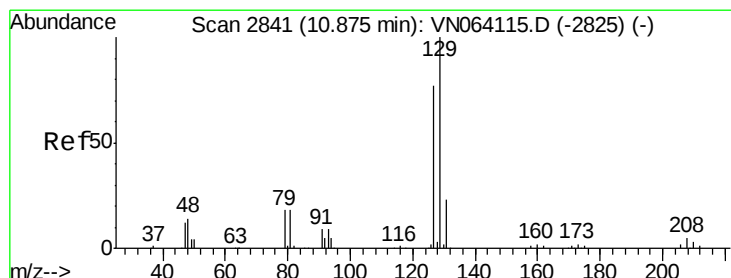
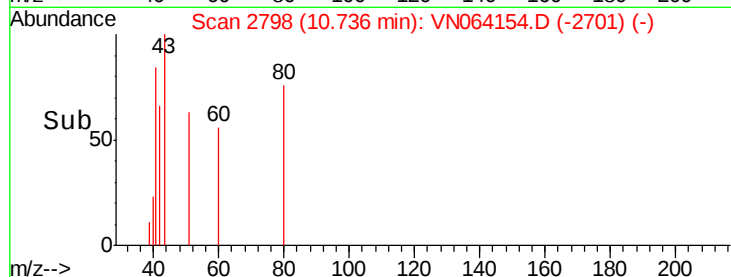
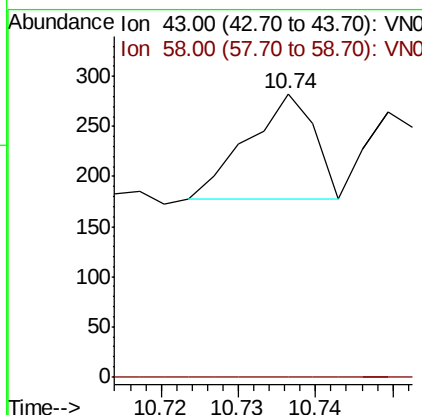
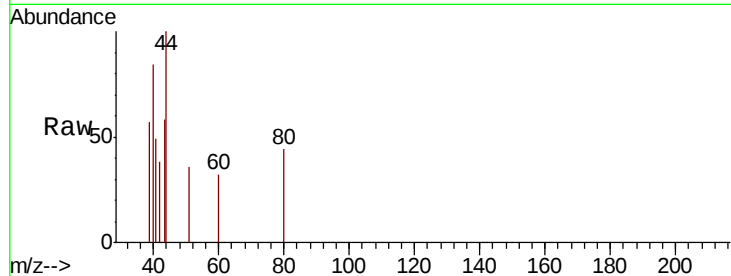




#59
2-Hexanone
Concen: 6.856 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

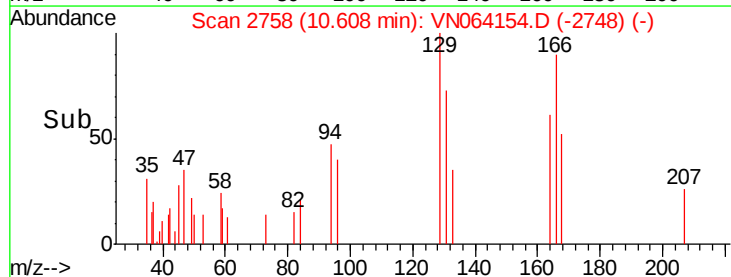
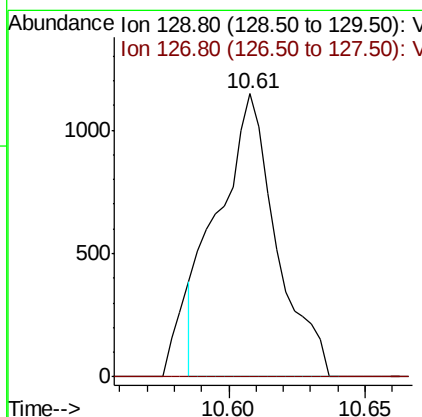
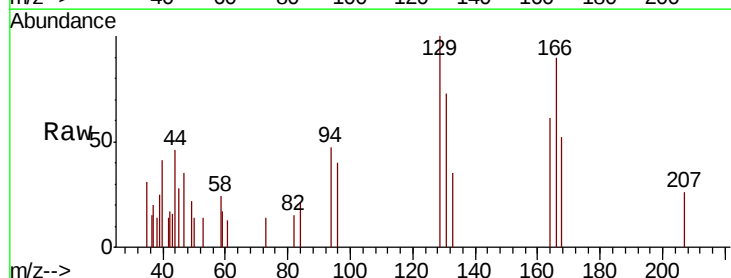
Instrument :
MSVOA_N
ClientSampled :
MW-2

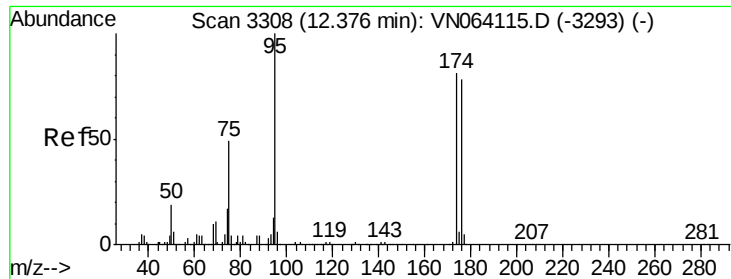
Tot Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
58 0.0 27.2 81.6#



#60
Dibromochloromethane
Concen: 0.389 ug/l
RT: 10.61 min Scan# 2758
Delta R.T. -0.27 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 129 Resp: 1713
Ion Ratio Lower Upper
129 100
127 0.0 38.2 114.6#

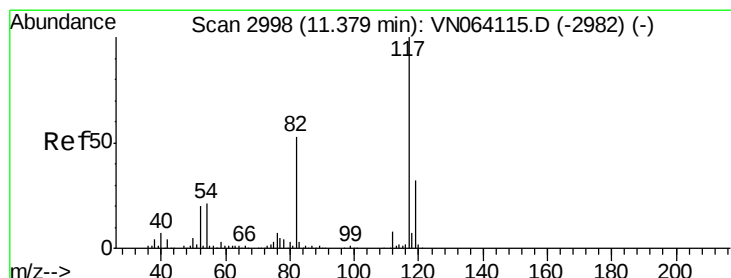
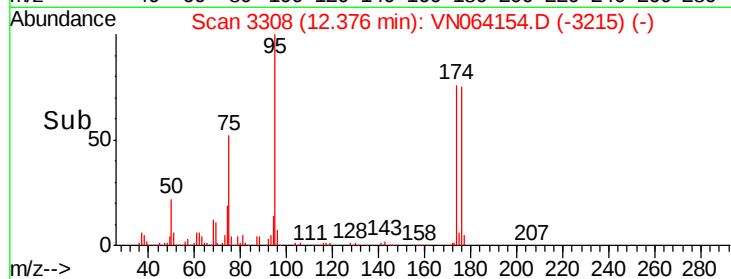
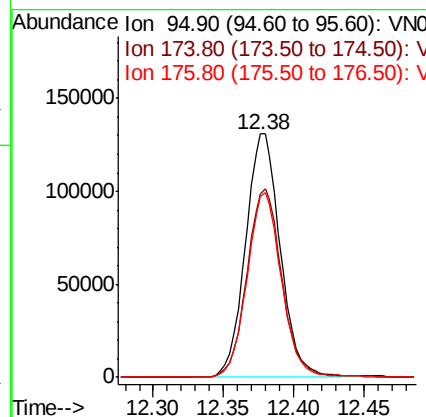
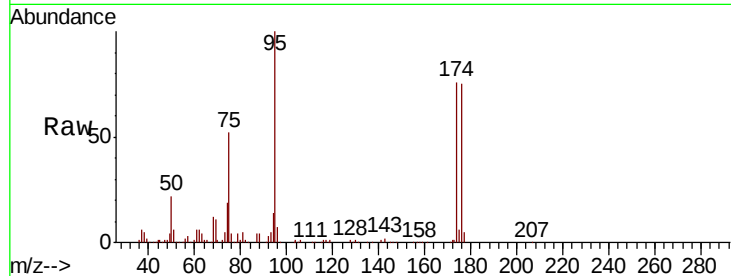




#62
4-Bromofluorobenzene
Concen: 47.735 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

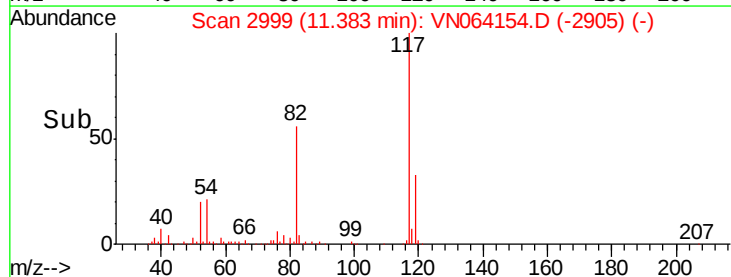
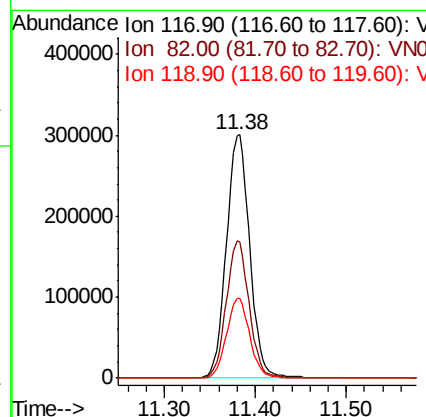
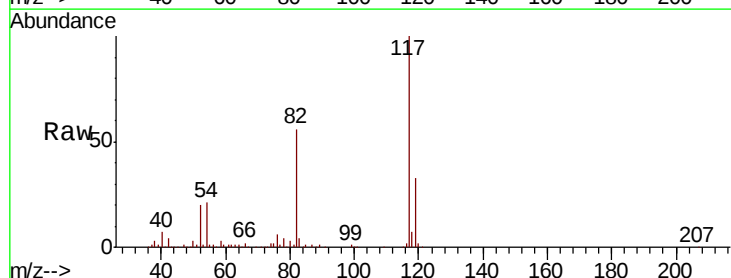
Instrument :
MSVOA_N
ClientSampleId :
MW-2

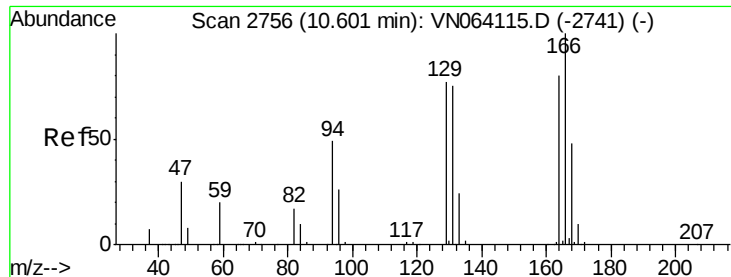
Tot Ion: 95 Resp: 225911
Ion Ratio Lower Upper
95 100
174 78.2 0.0 164.8
176 75.1 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion: 117 Resp: 536084
Ion Ratio Lower Upper
117 100
82 55.9 42.6 63.8
119 32.7 25.5 38.3

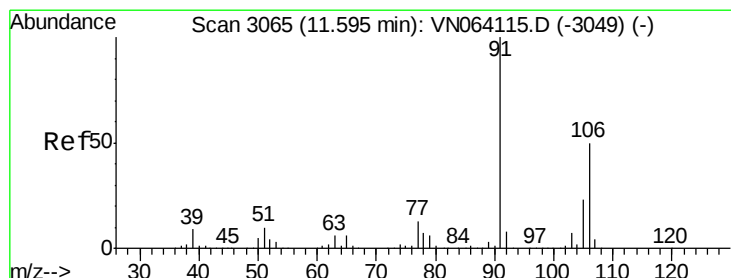
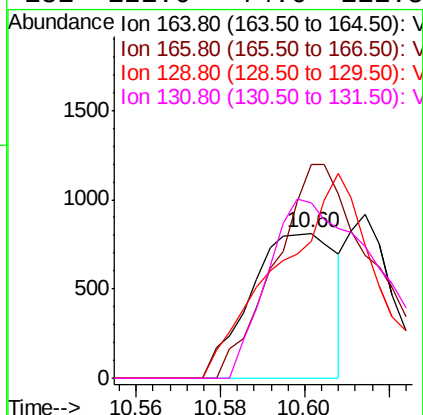
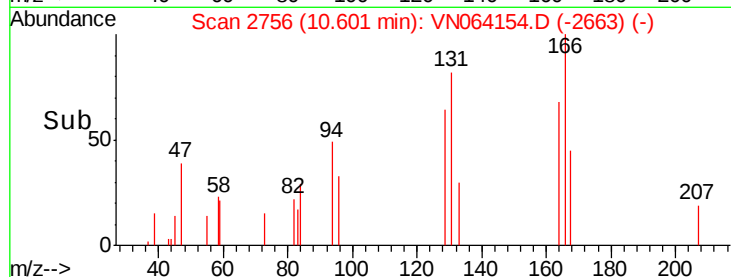
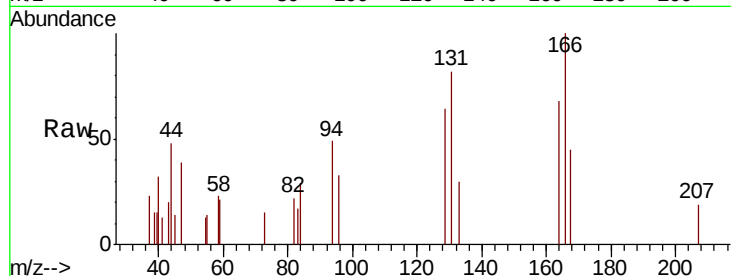




#64
Tetrachloroethene
Concen: 0.283 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

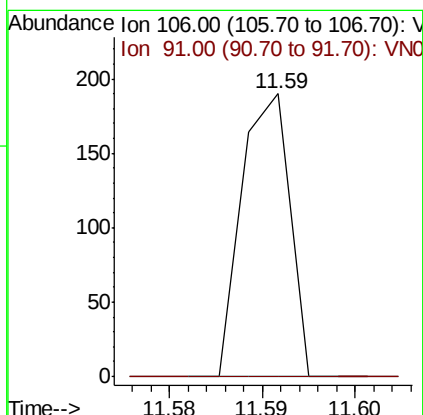
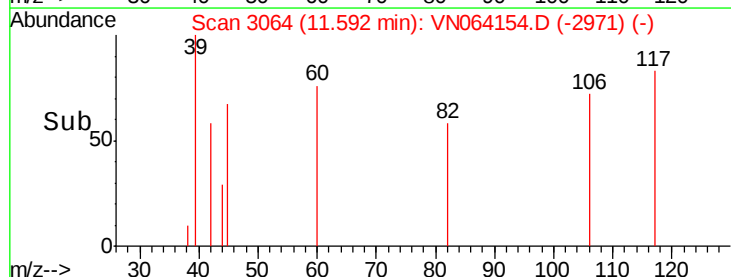
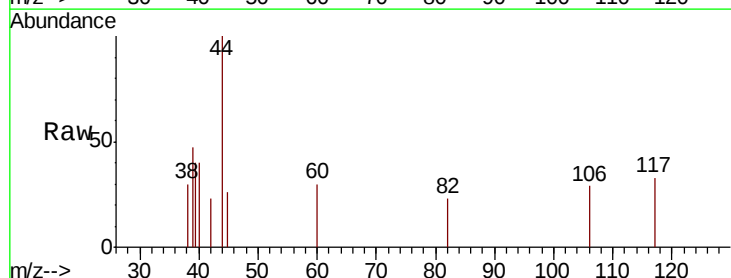
Instrument :
MSVOA_N
ClientSampled :
MW-2

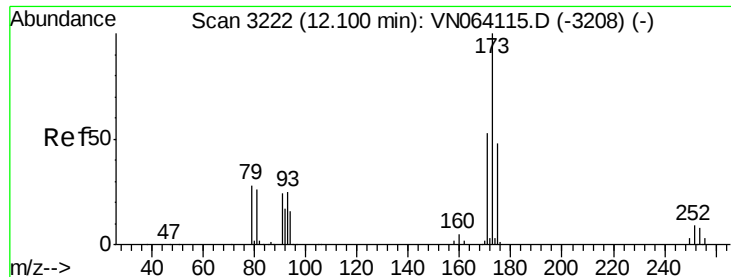
Tot Ion:164 Resp: 1143
Ion Ratio Lower Upper
164 100
166 147.7 99.7 149.5
129 95.1 77.0 115.4
131 121.6 74.6 111.8#



#68
m/p-Xylenes
Concen: 2.200 ug/l
RT: 11.59 min Scan# 3064
Delta R.T. -0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion:106 Resp: 68
Ion Ratio Lower Upper
106 100
91 172.1 162.1 243.1

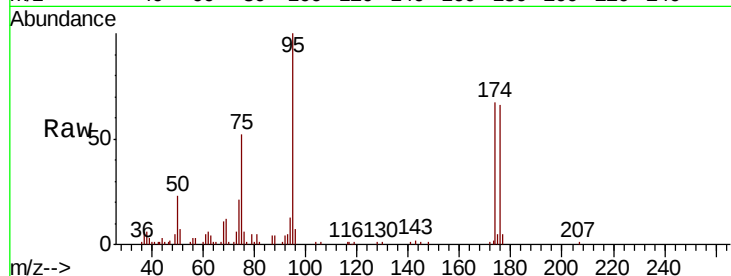




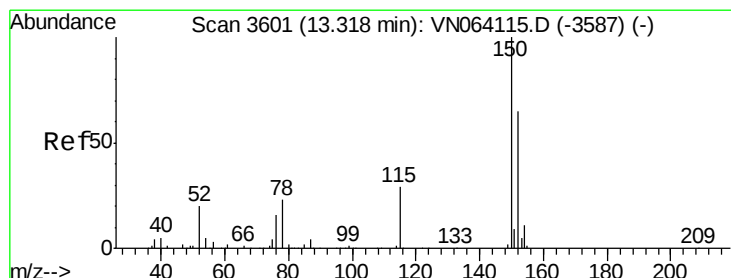
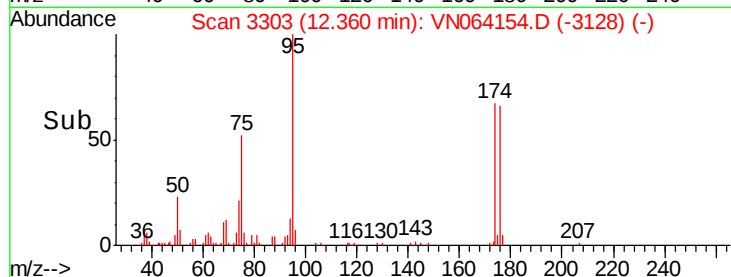
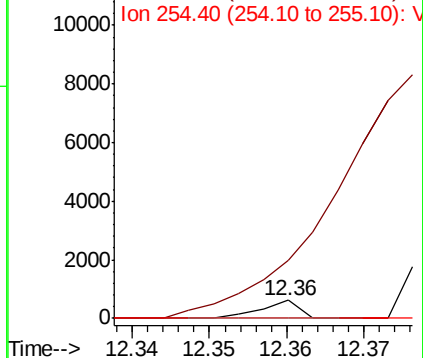
#71
Bromoform
Concen: 2.287 ug/l
RT: 12.36 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:173 Resp: 210
Ion Ratio Lower Upper
173 100
175 0.0 23.4 70.2#
254 0.0 0.1 0.1#

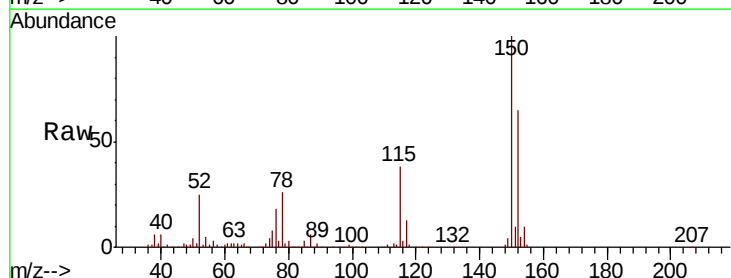


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

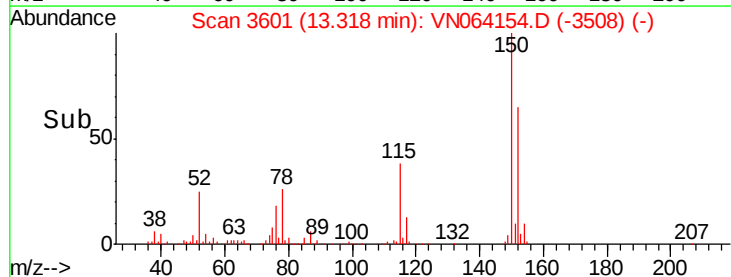
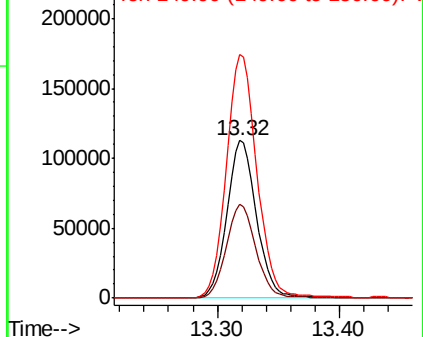


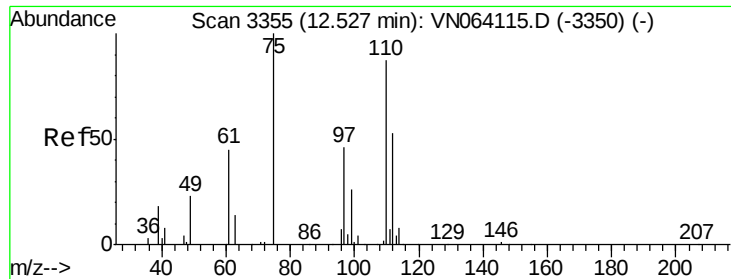
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064154.D
Acq: 15 Oct 2020 19:31

Tgt Ion:152 Resp: 191648
Ion Ratio Lower Upper
152 100
115 59.6 29.3 87.8
150 158.6 0.0 346.0



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

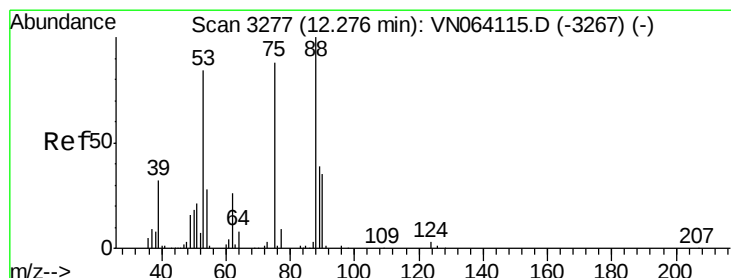
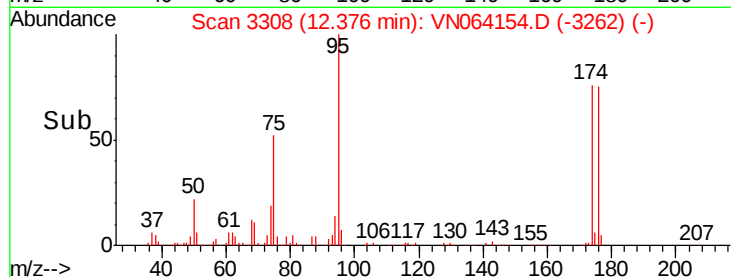
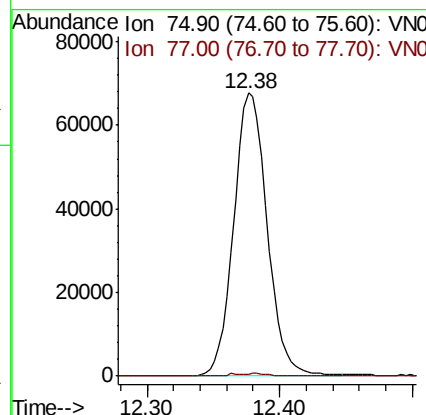
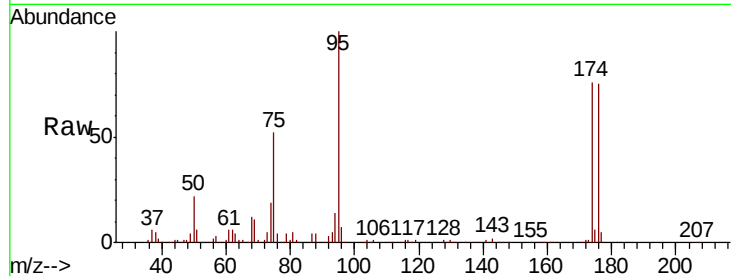




#76
 1,2,3-Trichloropropane
 Concen: 26.440 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064154.D
 Acq: 15 Oct 2020 19:31

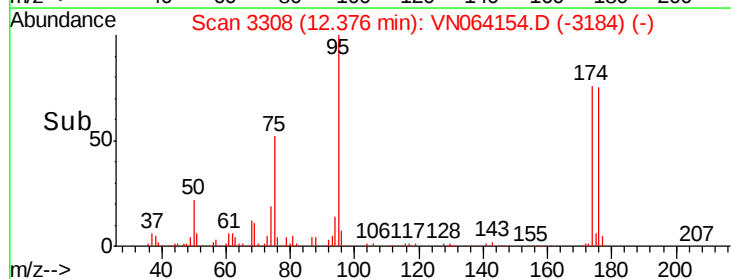
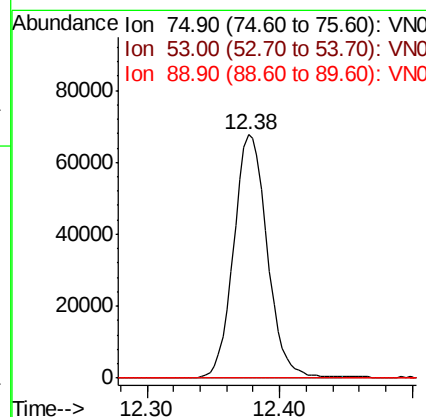
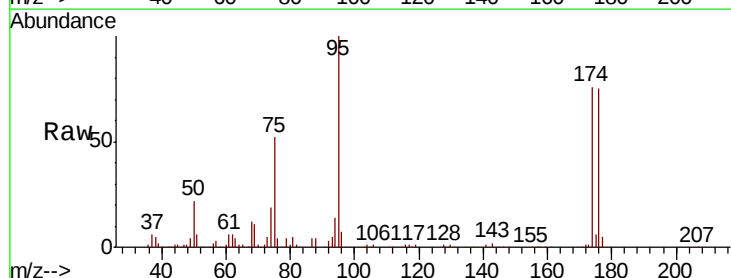
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

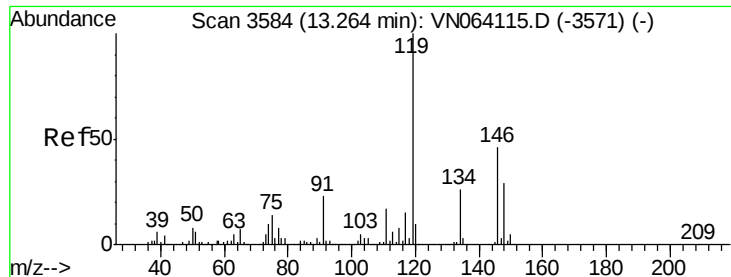
Tot Ion: 75 Resp: 118881
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.780 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064154.D
 Acq: 15 Oct 2020 19:31

Tgt Ion: 75 Resp: 118881
 Ion Ratio Lower Upper
 75 100
 53 0.3 75.7 113.5#
 89 0.0 36.6 55.0#





#86

p-Isopropyltoluene

Concen: 0.665 ug/l

RT: 13.27 min Scan# 3585

Delta R.T. 0.00 min

Lab File: VN064154.D

Acq: 15 Oct 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

MW-2

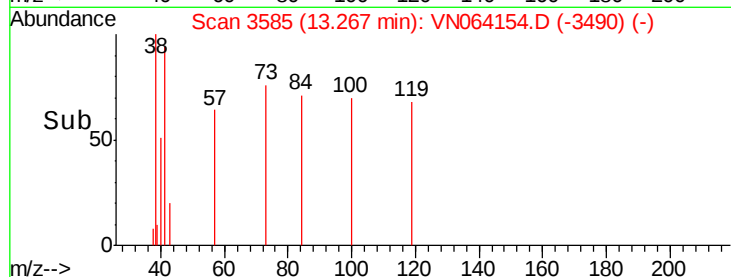
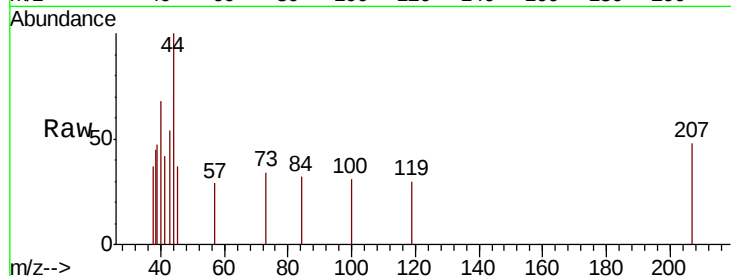
Tot Ion:119 Resp: 32

Ion Ratio Lower Upper

119 100

134 0.0 13.2 39.5#

91 0.0 12.0 36.1#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VNO

