

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064148.D
 Acq On : 15 Oct 2020 17:07
 Operator : JC/MD
 Sample : L4417-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Quant Time: Oct 16 02:25:51 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	280298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	528296	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	563249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	205030	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	219636	55.02	ug/l	0.00
Spiked Amount			Recovery	=	110.04%	
35) Dibromofluoromethane	7.55	113	185404	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
50) Toluene-d8	10.06	98	693303	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
62) 4-Bromofluorobenzene	12.38	95	240486	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	

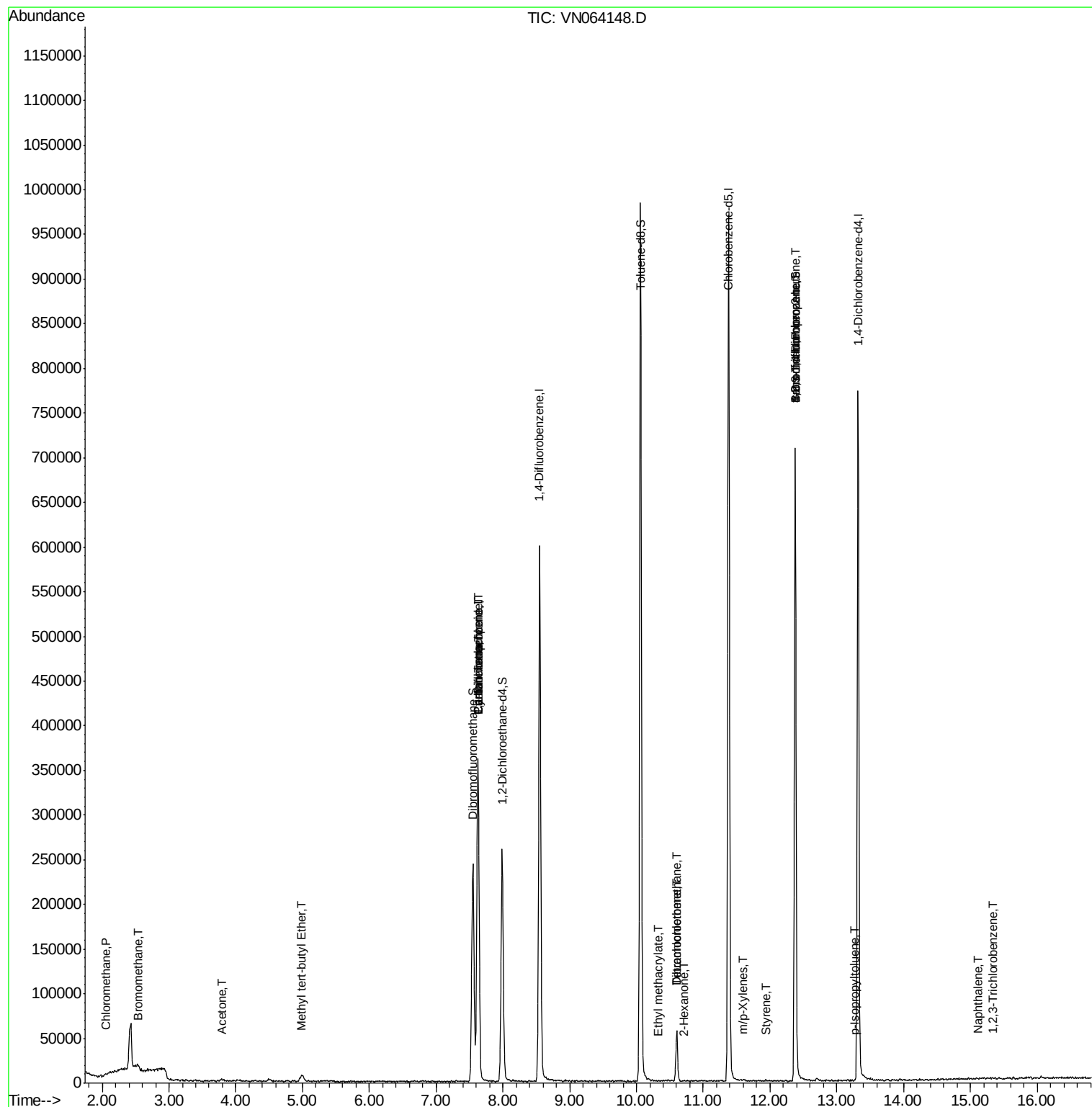
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1510	0.459	ug/l #	79
5) Bromomethane	2.54	94	630	0.205	ug/l #	50
16) Acetone	3.79	43	2685	2.268	ug/l	99
19) Methyl tert-butyl Ether	4.99	73	4037	0.490	ug/l #	88
31) Cyclohexane	7.63	56	7043	1.596	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	22788	4.475	ug/l #	50
38) Carbon Tetrachloride	7.63	117	29322	5.355	ug/l #	16
56) Ethyl methacrylate	10.34	69	32	2.304	ug/l #	1
59) 2-Hexanone	10.72	43	58	6.854	ug/l #	24
60) Dibromochloromethane	10.60	129	11905	2.700	ug/l #	11
64) Tetrachloroethene	10.60	164	12396	2.919	ug/l	97
68) m/p-Xylenes	11.60	106	105	2.204	ug/l #	63
70) Styrene	11.94	104	65	2.041	ug/l #	56
71) Bromoform	12.37	173	1198	2.538	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	128794	26.776	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	128794	81.804	ug/l #	12
86) p-Isopropyltoluene	13.27	119	167	0.676	ug/l #	71
95) Naphthalene	15.12	128	64	3.803	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.34	180	31	2.819	ug/l #	13

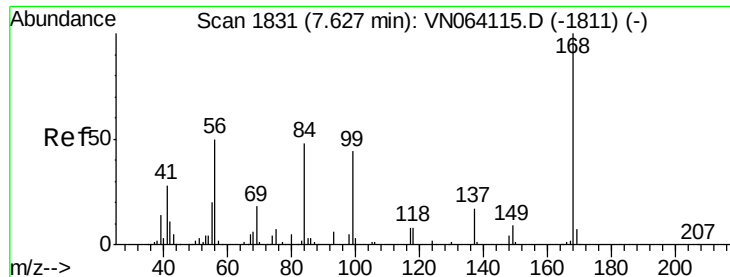
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

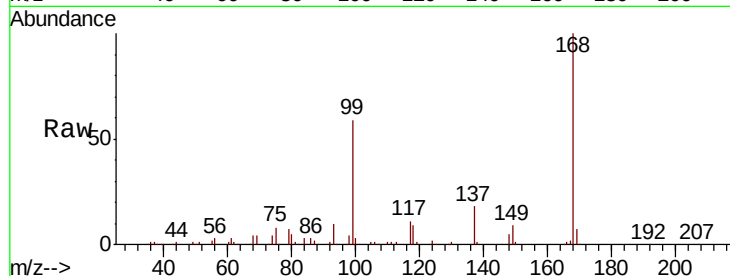
MW-7

Tot Ion:168 Resp: 280298

Ion Ratio Lower Upper

168 100

99 59.0 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

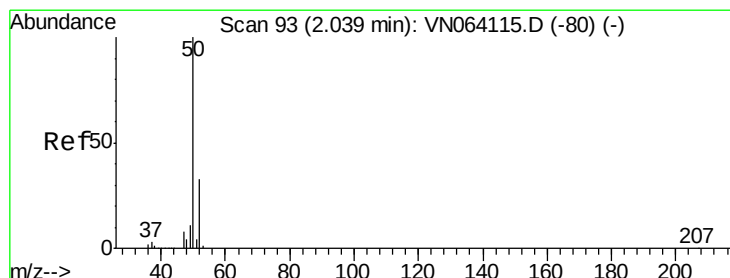
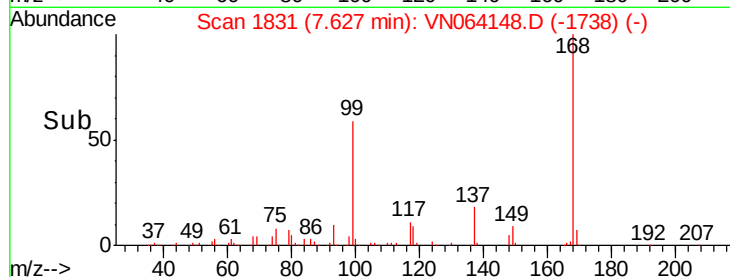
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.459 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064148.D

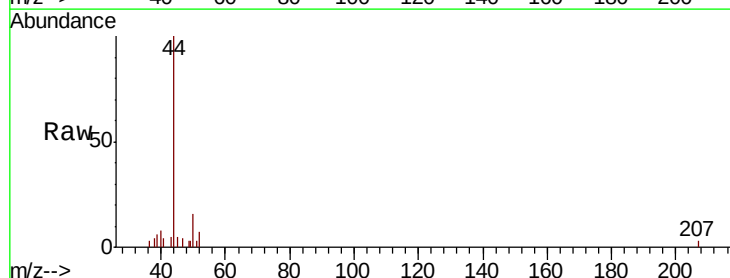
Acq: 15 Oct 2020 17:07

Tgt Ion: 50 Resp: 1510

Ion Ratio Lower Upper

50 100

52 44.4 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

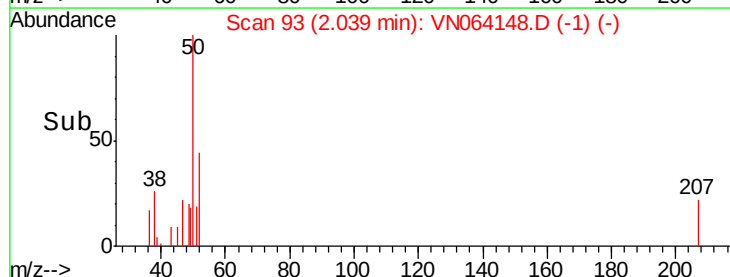
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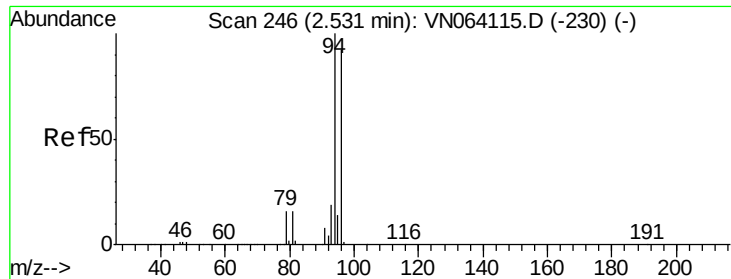
400

200

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.205 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

Instrument :

MSVOA_N

ClientSampled :

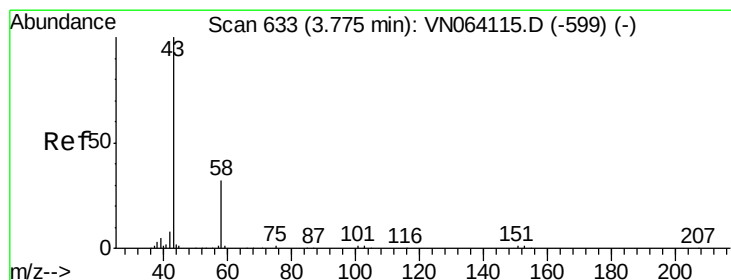
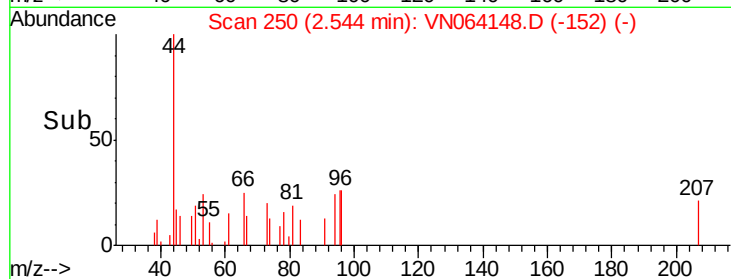
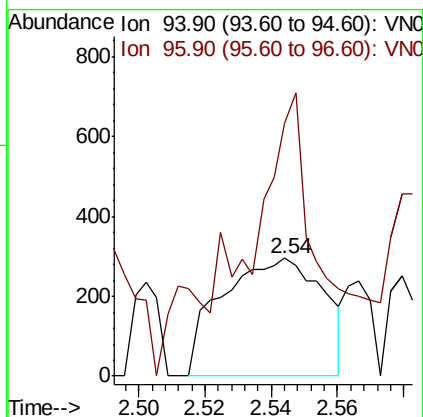
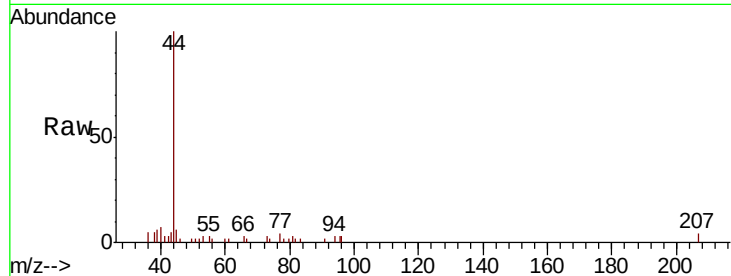
MW-7

Tot Ion: 94 Resp: 630

Ion Ratio Lower Upper

94 100

96 139.7 73.5 110.3#



#16

Acetone

Concen: 2.268 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064148.D

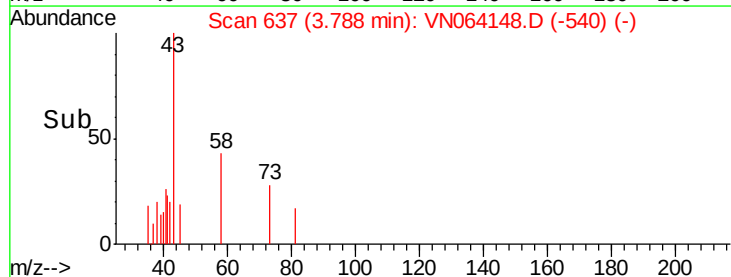
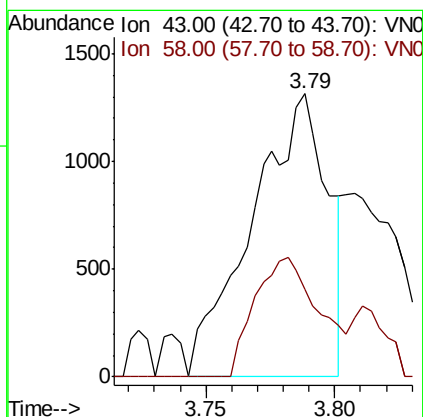
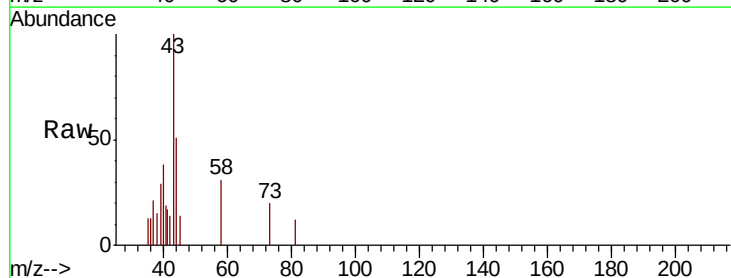
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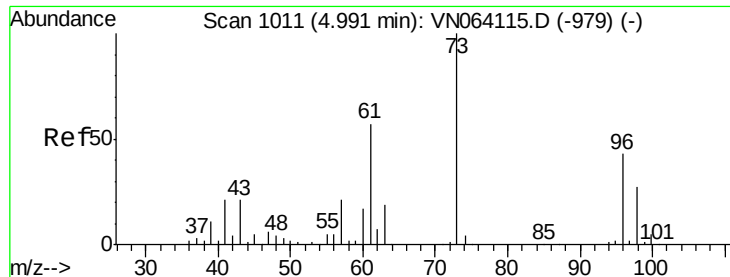
Tgt Ion: 43 Resp: 2685

Ion Ratio Lower Upper

43 100

58 31.1 25.2 37.8

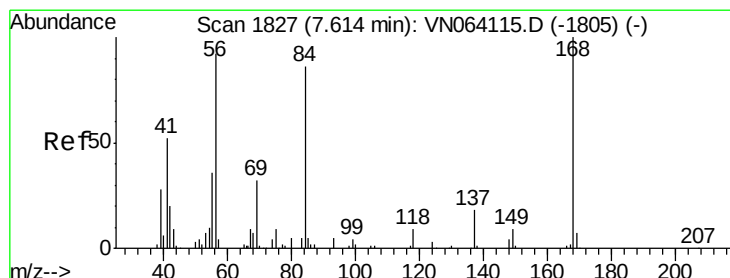
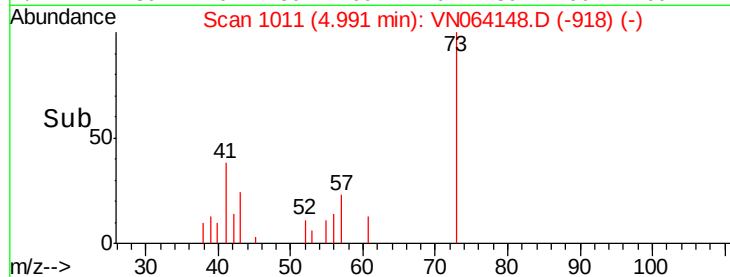
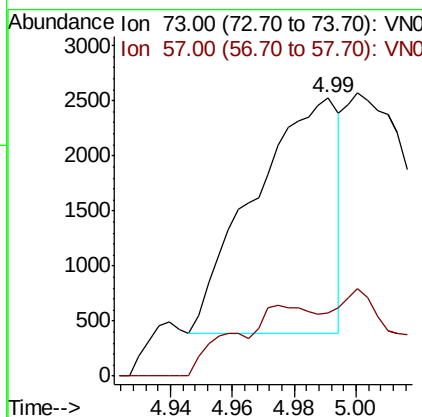
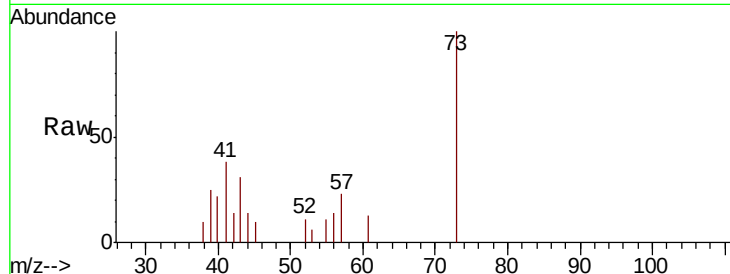




#19
Methyl tert-butyl Ether
Concen: 0.490 ug/l
RT: 4.99 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

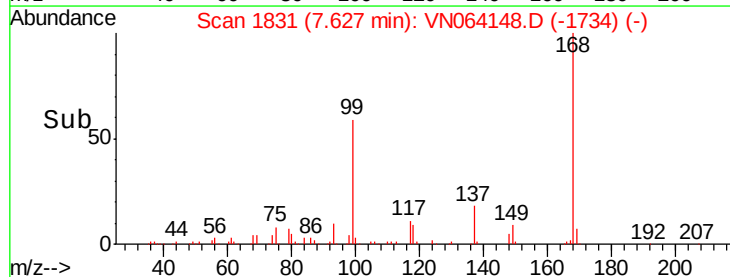
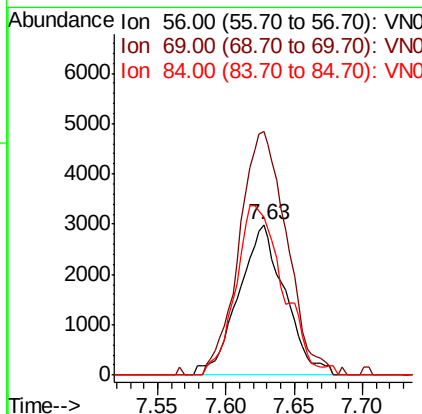
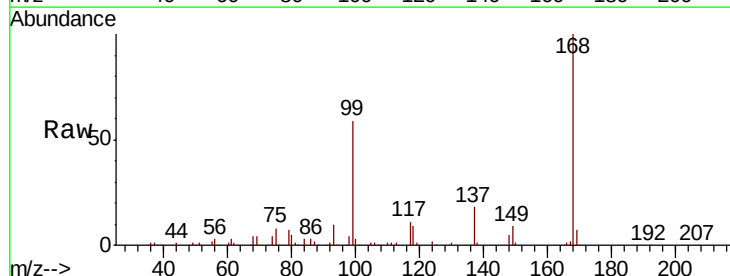
Instrument :
MSVOA_N
ClientSampled :
MW-7

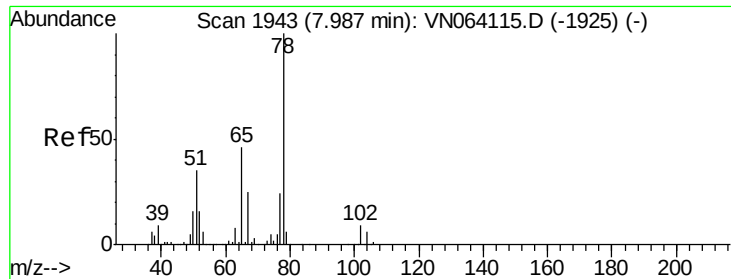
Tot Ion: 73 Resp: 4037
Ion Ratio Lower Upper
73 100
57 26.7 17.0 25.4#



#31
Cyclohexane
Concen: 1.596 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

Tgt Ion: 56 Resp: 7043
Ion Ratio Lower Upper
56 100
69 162.0 27.8 41.6#
84 104.8 73.2 109.8

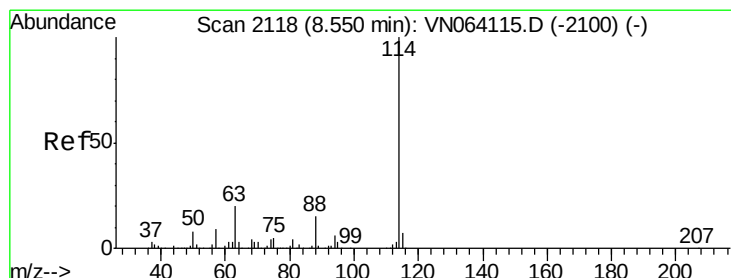
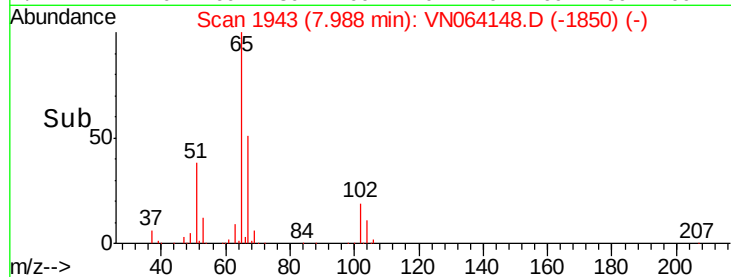
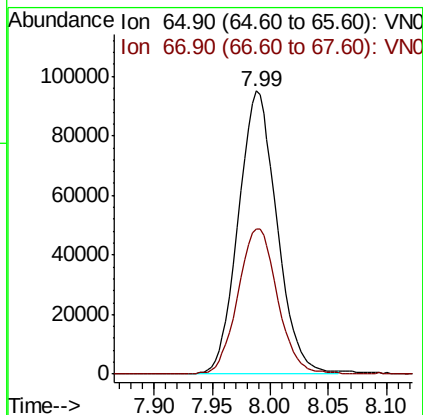
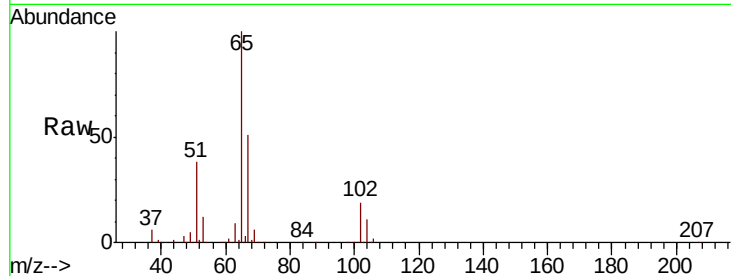




#33
 1,2-Dichloroethane-d4
 Concen: 55.019 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

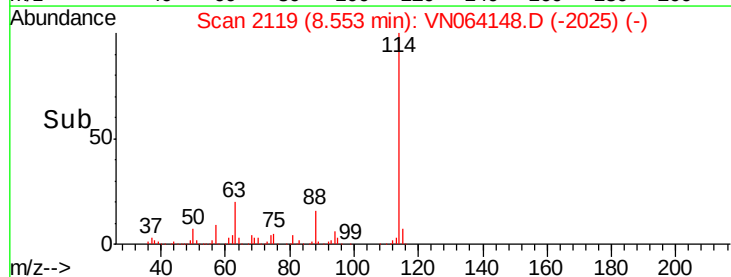
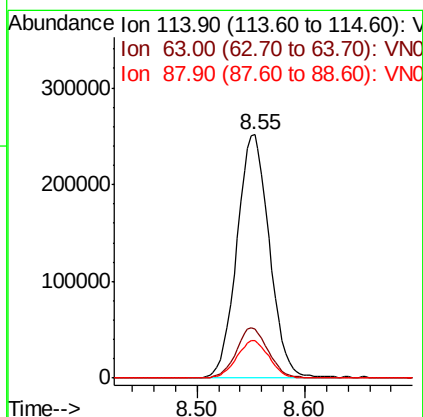
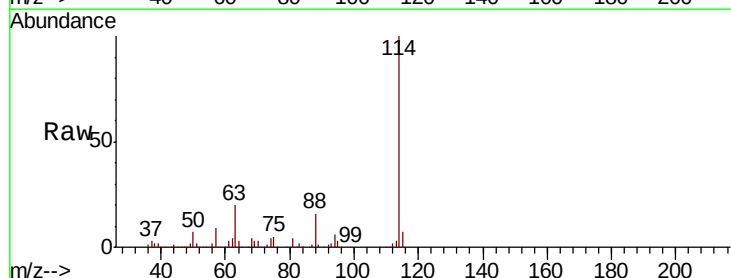
Instrument :
 MSVOA_N
 ClientSampled :
 MW-7

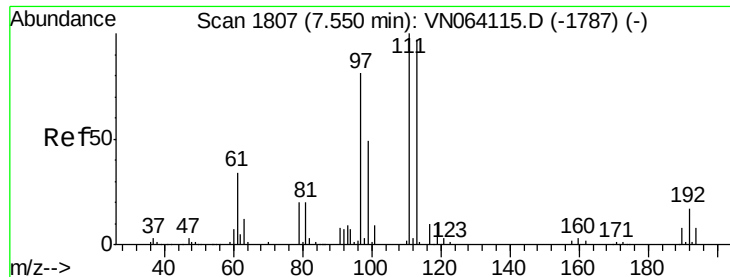
Tot Ion: 65 Resp: 219636
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

Tgt Ion: 114 Resp: 528296
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.0
 88 15.6 0.0 29.2

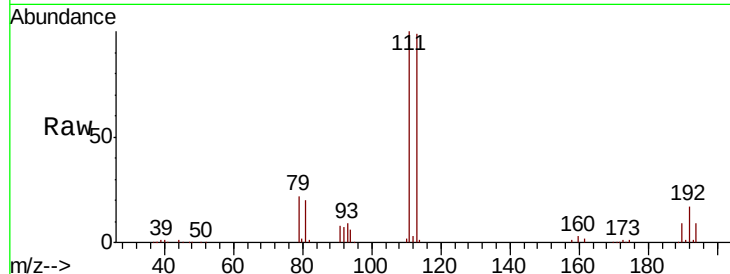




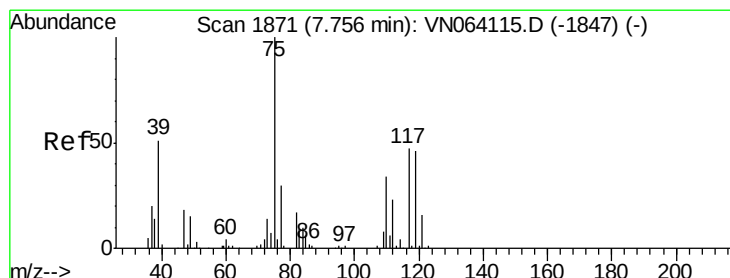
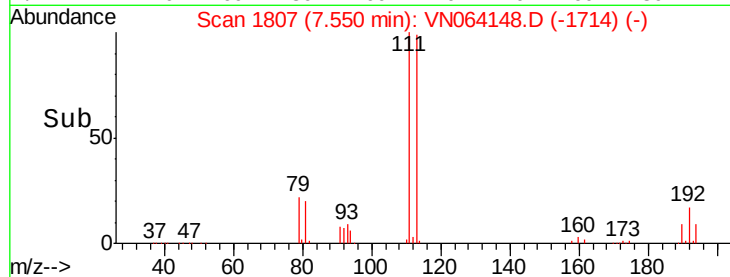
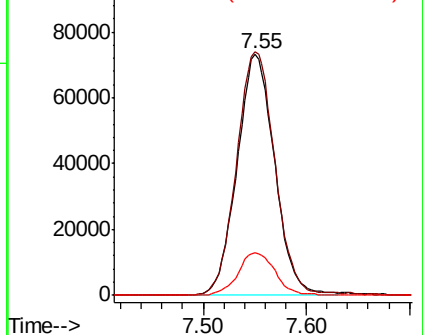
#35
 Dibromofluoromethane
 Concen: 50.704 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	17.5	14.3	21.5

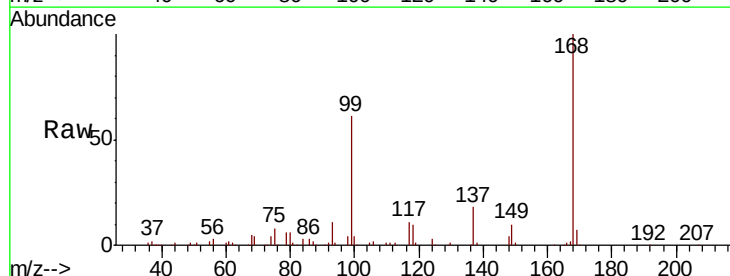


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

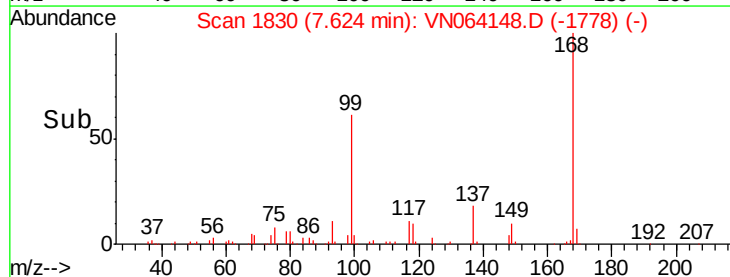
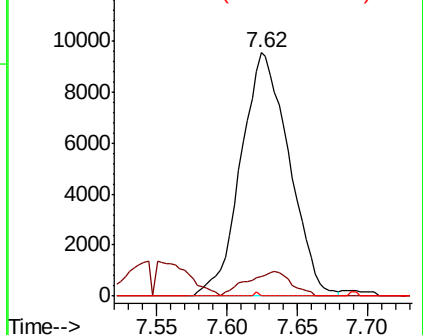


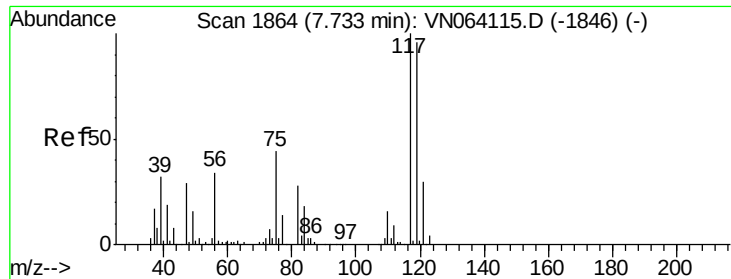
#36
 1,1-Dichloropropene
 Concen: 4.475 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.8	53.3#
77	0.1	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

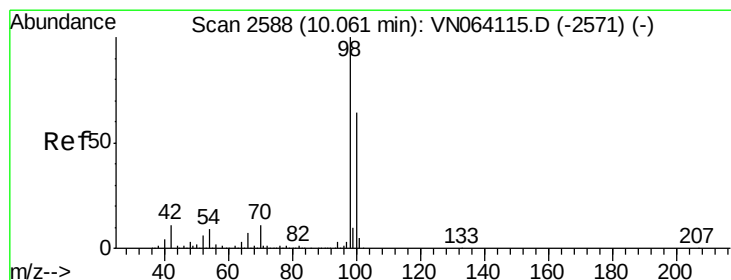
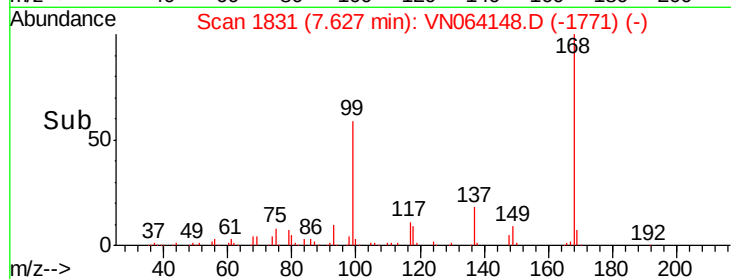
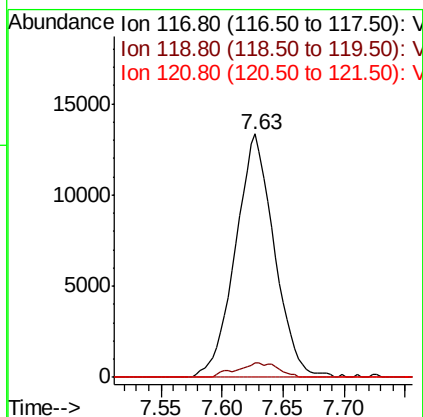
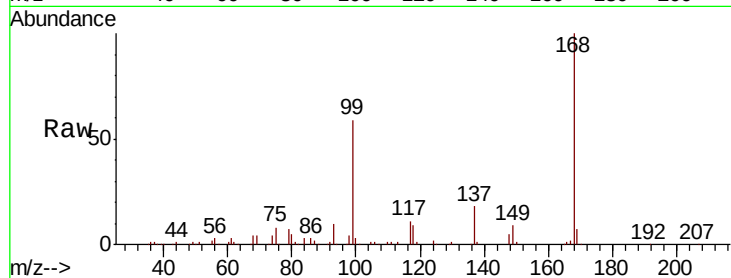




#38
Carbon Tetrachloride
Concen: 5.355 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

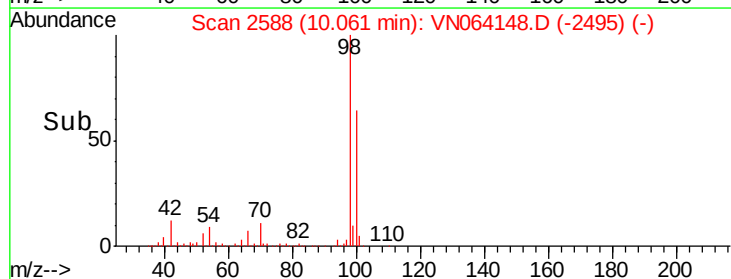
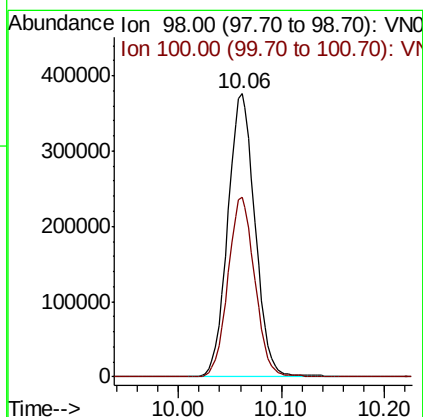
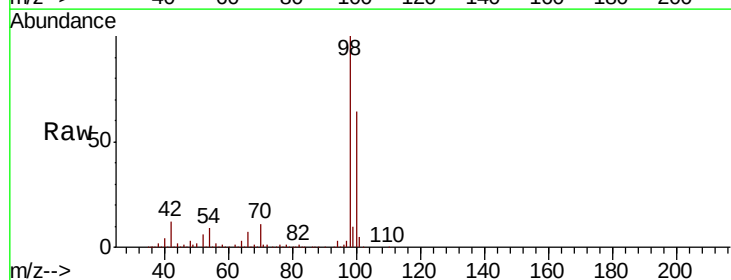
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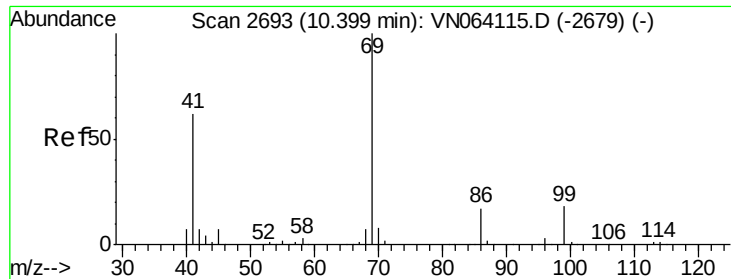
Tot Ion:117 Resp: 29322
Ion Ratio Lower Upper
117 100
119 5.7 77.0 115.4#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 50.251 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

Tgt Ion: 98 Resp: 693303
Ion Ratio Lower Upper
98 100
100 62.7 50.8 76.2

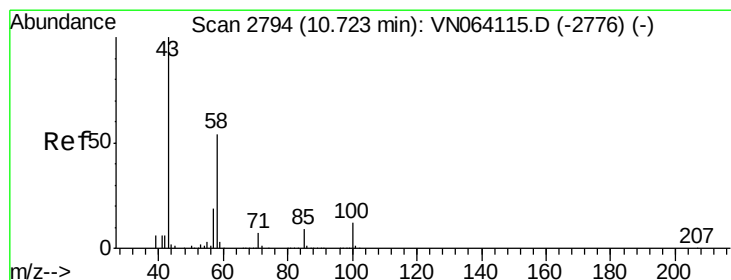
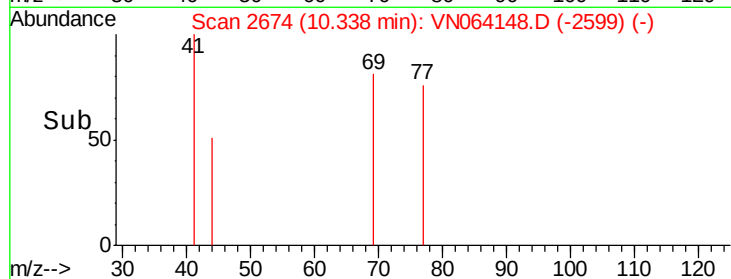
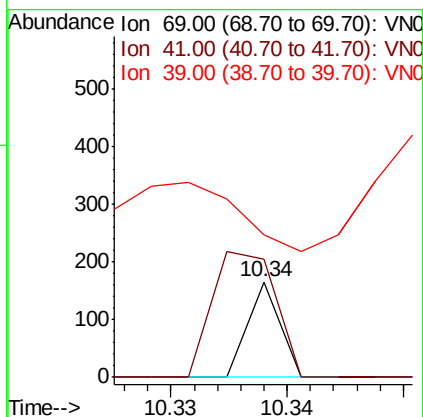
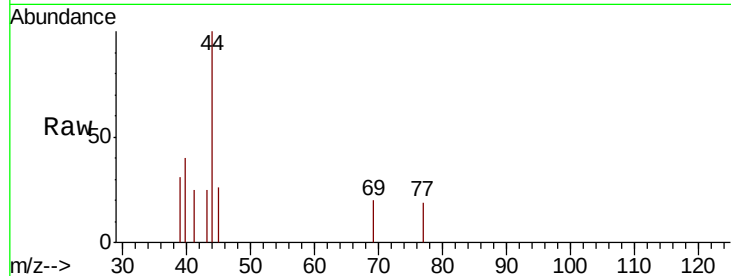




#56
Ethyl methacrylate
Concen: 2.304 ug/l
RT: 10.34 min Scan# 2674
Delta R.T. -0.06 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

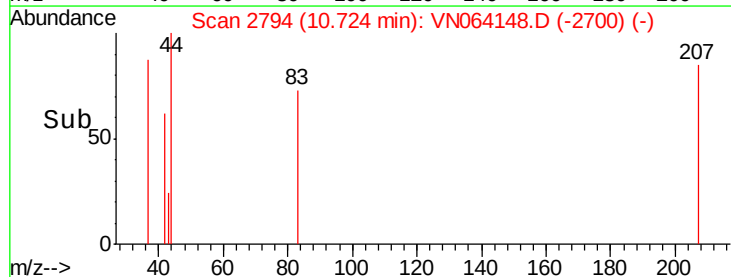
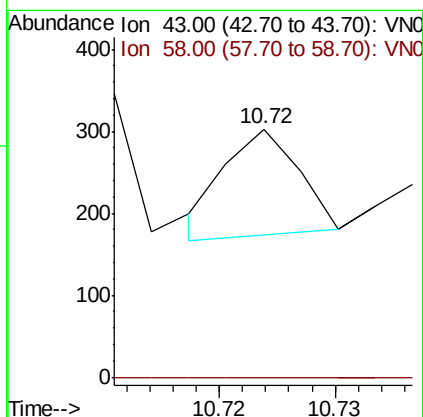
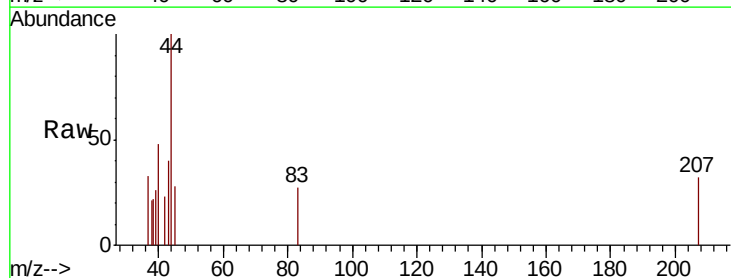
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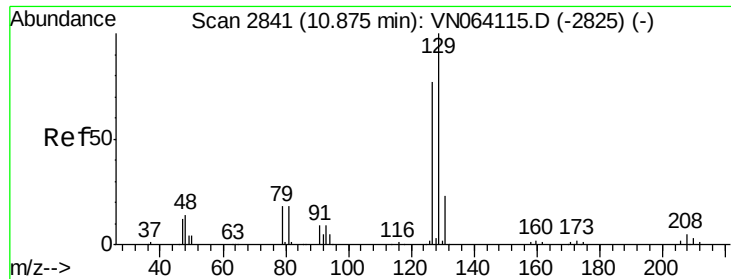
Tot Ion: 69 Resp: 32
Ion Ratio Lower Upper
69 100
41 256.3 49.3 73.9#
39 381.3 32.7 49.1#



#59
2-Hexanone
Concen: 6.854 ug/l
RT: 10.72 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

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

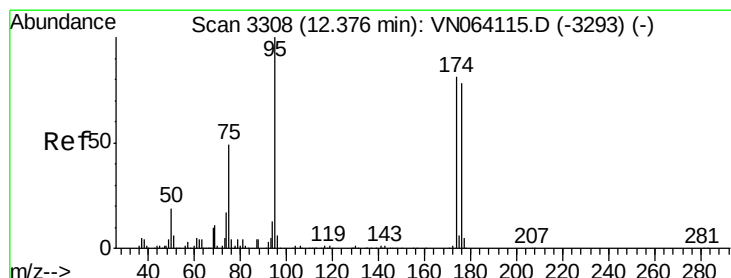
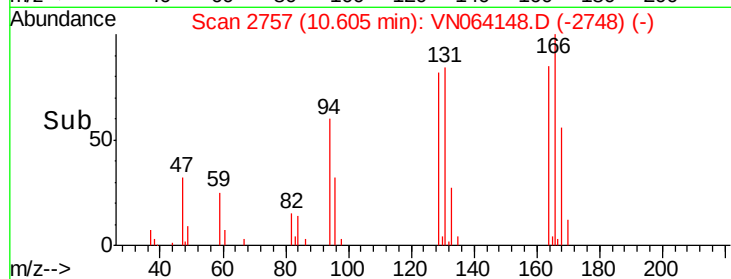
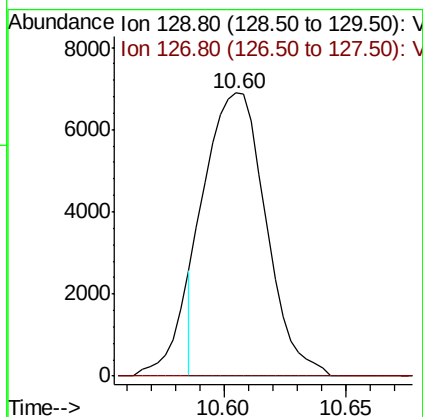
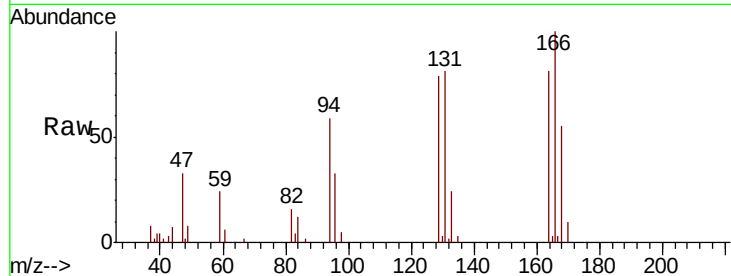




#60
Dibromochloromethane
Concen: 2.700 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

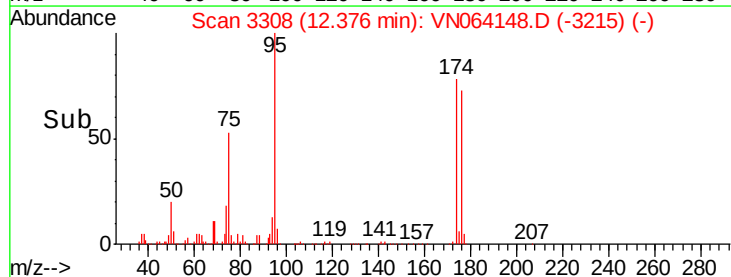
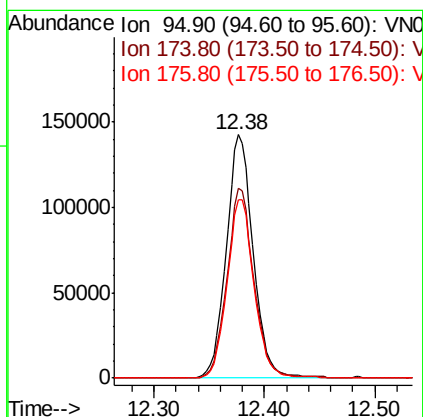
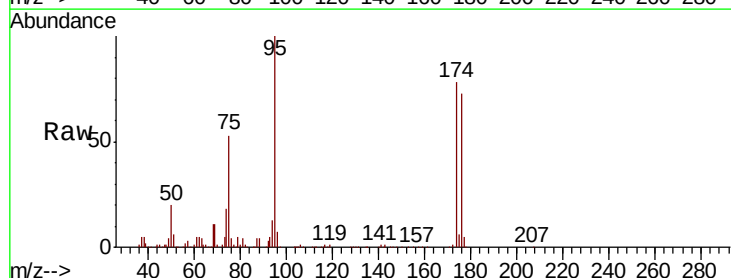
Instrument :
MSVOA_N
ClientSampled :
MW-7

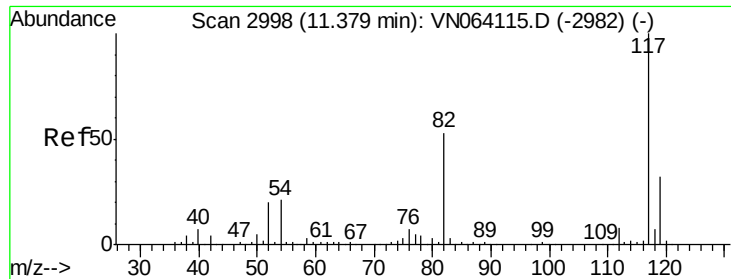
Tot Ion:129 Resp: 11905
Ion Ratio Lower Upper
129 100
127 0.0 38.2 114.6#



#62
4-Bromofluorobenzene
Concen: 50.710 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

Tgt Ion: 95 Resp: 240486
Ion Ratio Lower Upper
95 100
174 77.9 0.0 164.8
176 73.7 0.0 157.8

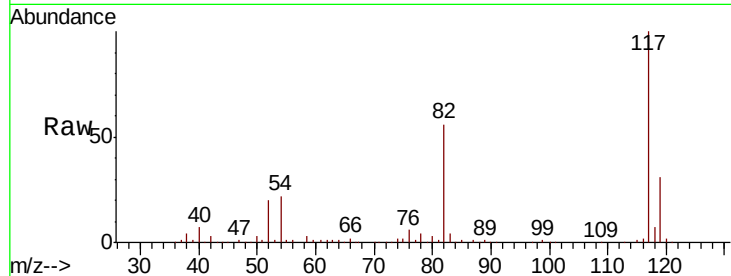




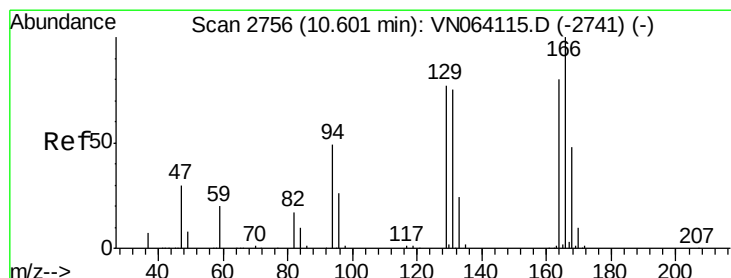
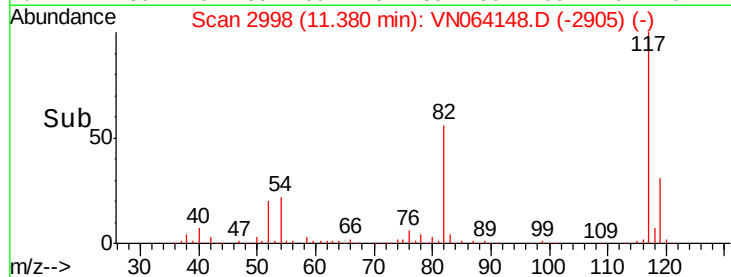
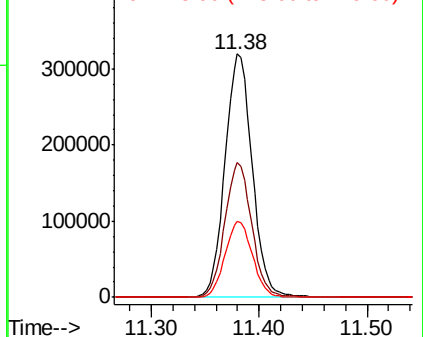
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

Instrument :
MSVOA_N
ClientSampled :
MW-7

Tot Ion:117 Resp: 563249
Ion Ratio Lower Upper
117 100
82 55.6 42.6 63.8
119 31.2 25.5 38.3

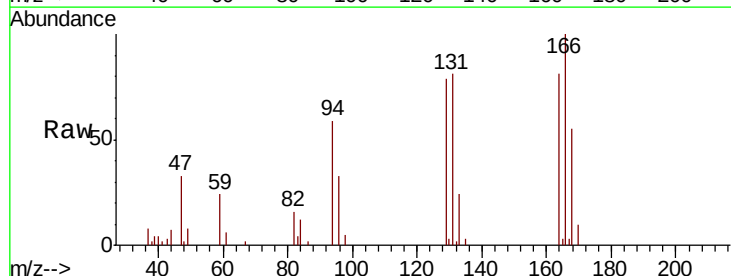


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

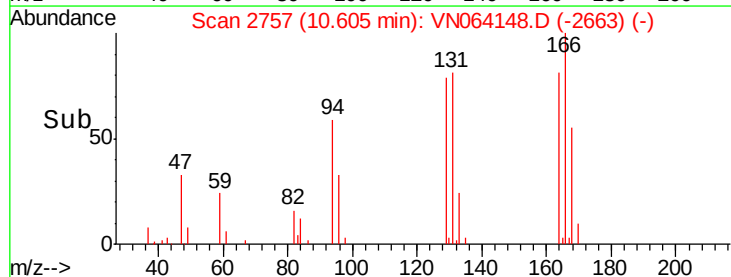
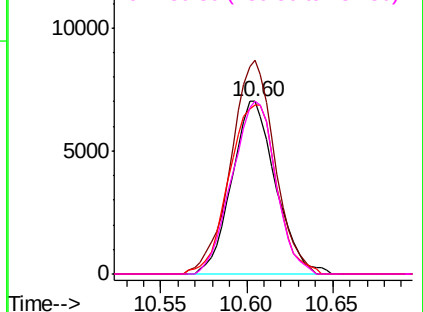


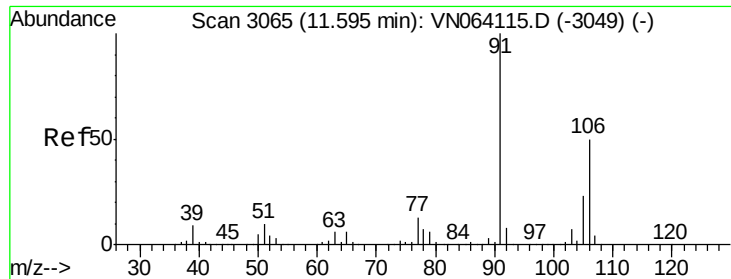
#64
Tetrachloroethene
Concen: 2.919 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN064148.D
Acq: 15 Oct 2020 17:07

Tgt Ion:164 Resp: 12396
Ion Ratio Lower Upper
164 100
166 123.9 99.7 149.5
129 98.3 77.0 115.4
131 100.3 74.6 111.8



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#68

m/p-Xylenes

Concen: 2.204 ug/l

RT: 11.60 min Scan# 3065

Delta R.T. 0.00 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

Instrument :

MSVOA_N

ClientSampled :

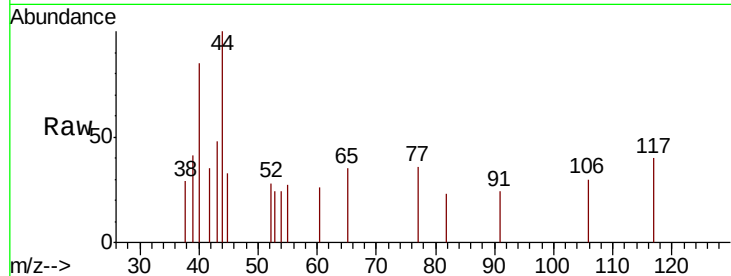
MW-7

Tot Ion:106 Resp: 105

Ion Ratio Lower Upper

106 100

91 146.7 162.1 243.1#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

400

300

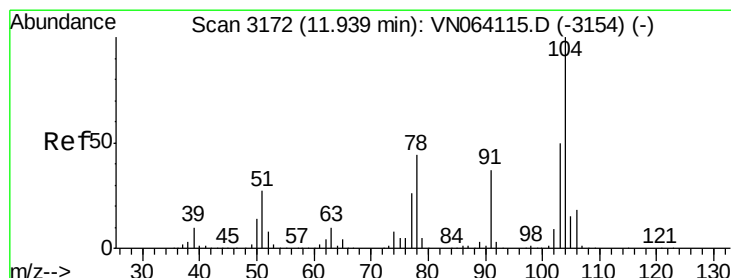
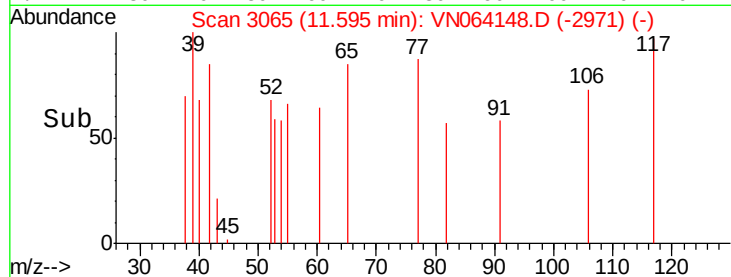
200

100

0

11.58 11.59 11.60 11.61

Time-->



#70

Styrene

Concen: 2.041 ug/l

RT: 11.94 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

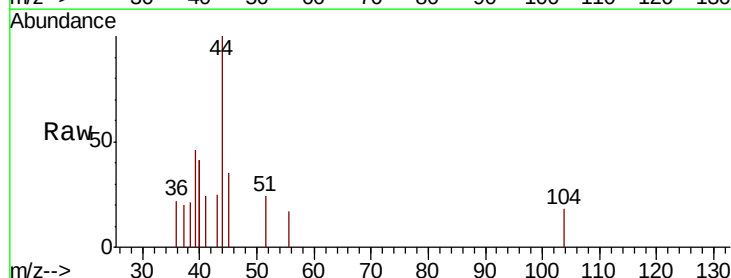
Tgt Ion:104 Resp: 65

Ion Ratio Lower Upper

104 100

78 44.6 39.7 59.5

103 0.0 44.2 66.2#



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

200

150

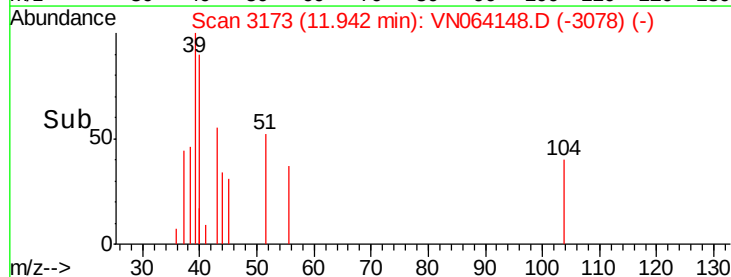
100

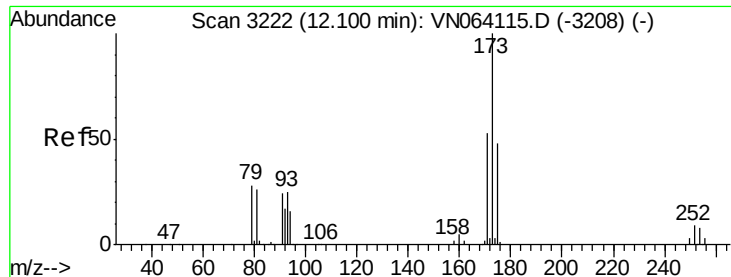
50

0

11.93 11.94 11.95

Time-->





#71

Bromoform

Concen: 2.538 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

Instrument :

MSVOA_N

ClientSampled :

MW-7

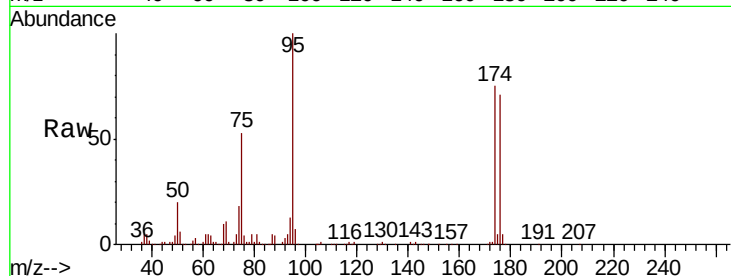
Tot Ion:173 Resp: 1198

Ion Ratio Lower Upper

173 100

175 929.9 23.4 70.2#

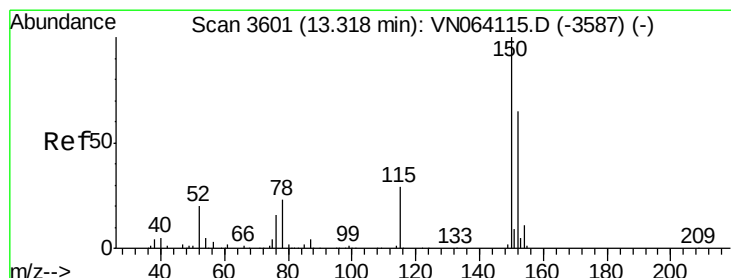
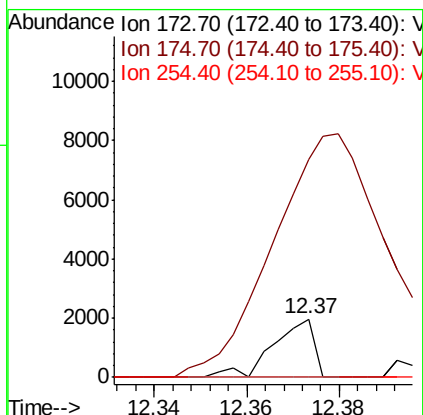
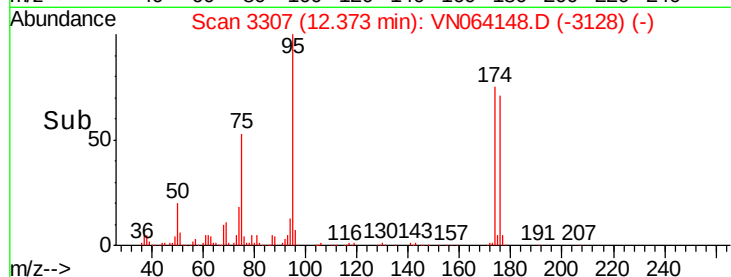
254 0.0 0.1 0.1#



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: VN064148.D

Acq: 15 Oct 2020 17:07

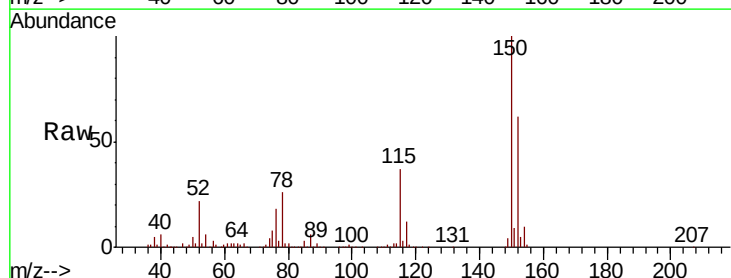
Tgt Ion:152 Resp: 205030

Ion Ratio Lower Upper

152 100

115 60.8 29.3 87.8

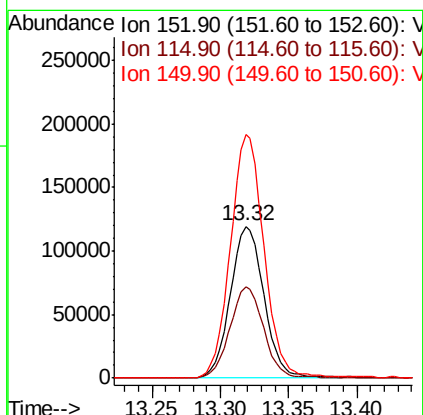
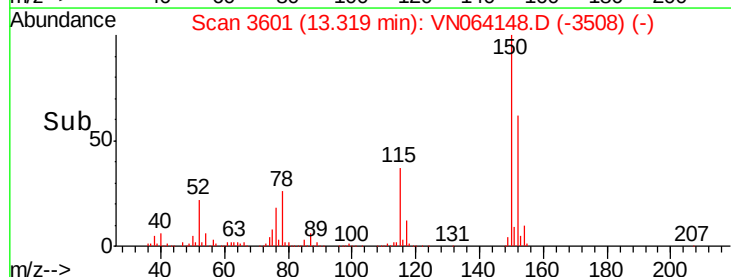
150 159.2 0.0 346.0

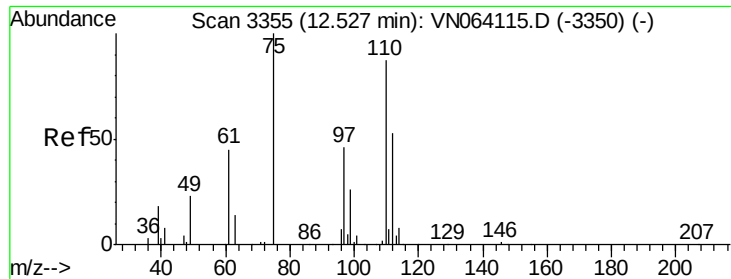


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.776 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

Instrument :

MSVOA_N

ClientSampled :

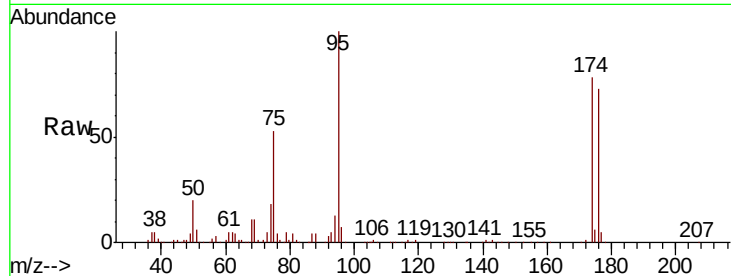
MW-7

Tot Ion: 75 Resp: 128794

Ion Ratio Lower Upper

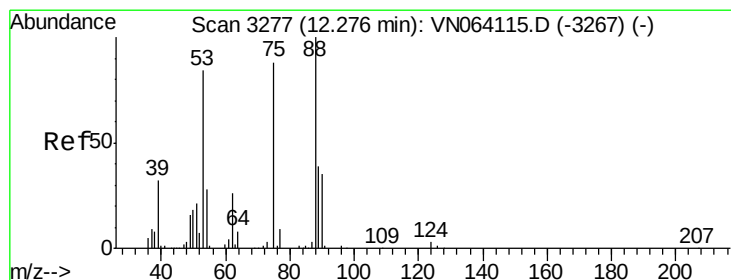
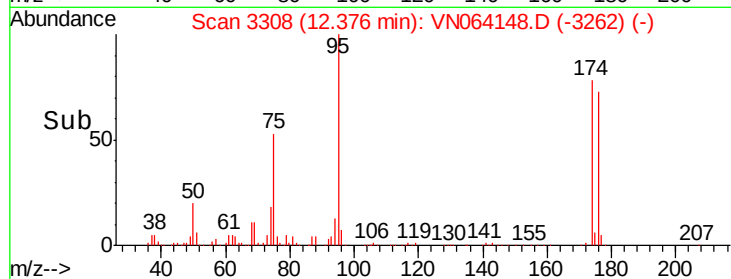
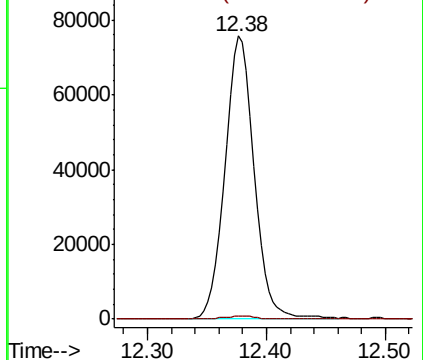
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 81.804 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064148.D

Acq: 15 Oct 2020 17:07

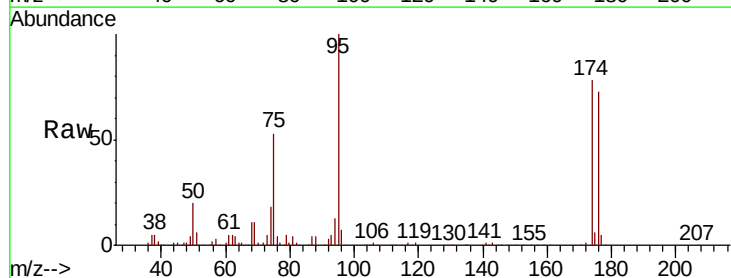
Tgt Ion: 75 Resp: 128794

Ion Ratio Lower Upper

75 100

53 0.3 75.7 113.5#

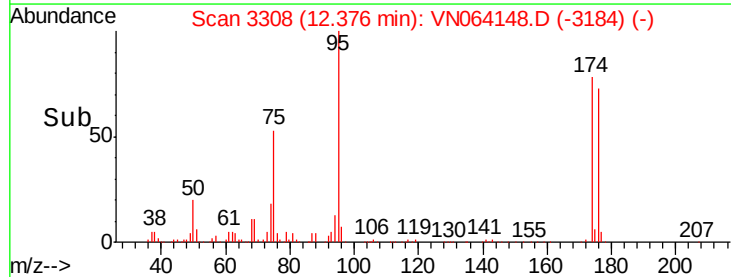
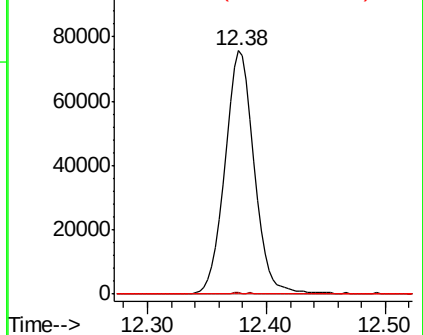
89 0.0 36.6 55.0#

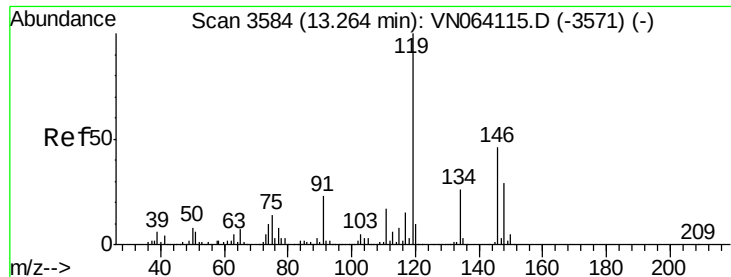


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

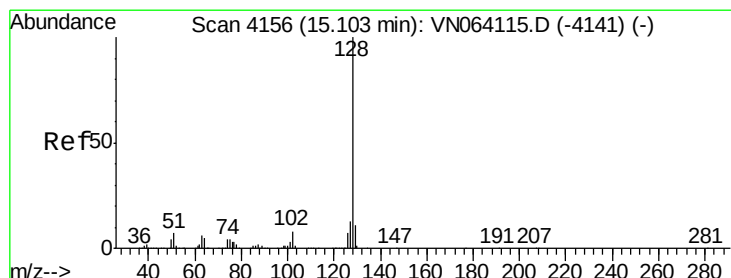
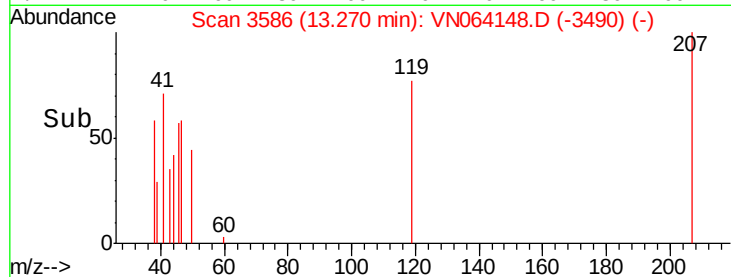
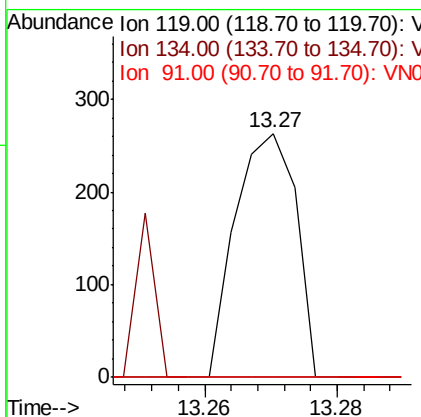
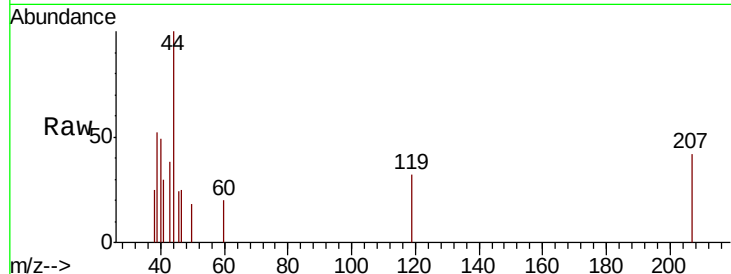




#86
 p-Isopropyltoluene
 Concen: 0.676 ug/l
 RT: 13.27 min Scan# 3586
 Delta R.T. 0.01 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

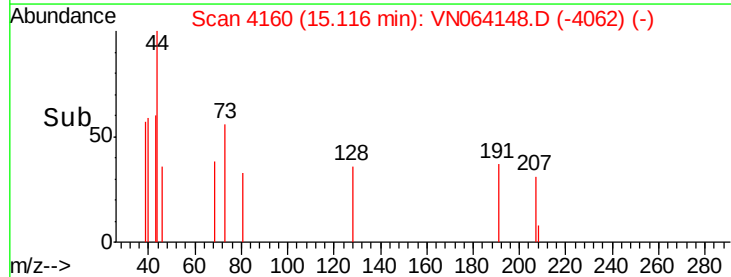
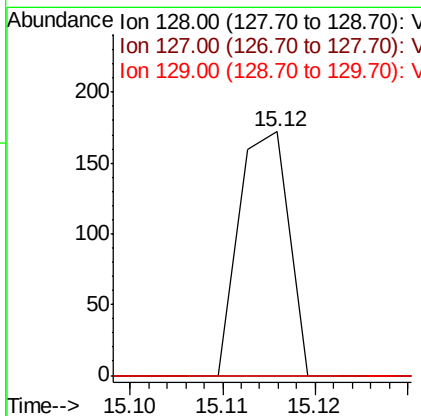
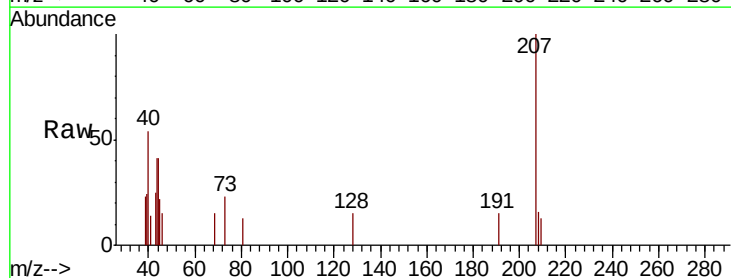
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

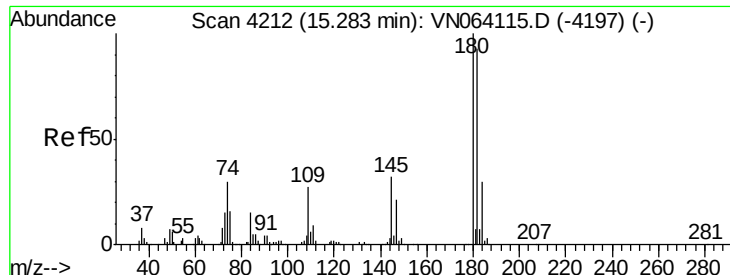
Tot Ion:119 Resp: 167
 Ion Ratio Lower Upper
 119 100
 134 20.4 13.2 39.5
 91 0.0 12.0 36.1#



#95
 Naphthalene
 Concen: 3.803 ug/l
 RT: 15.12 min Scan# 4160
 Delta R.T. 0.01 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

Tgt Ion:128 Resp: 64
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.5 12.7#

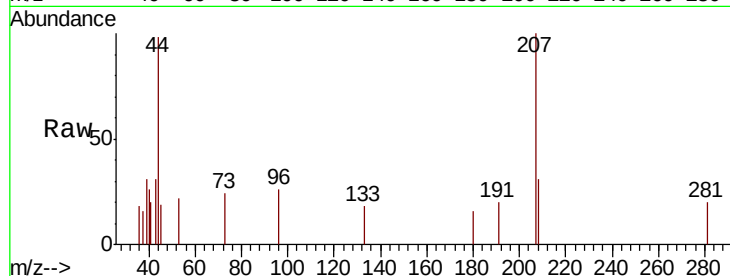




#96
 1,2,3-Trichlorobenzene
 Concen: 2.819 ug/l
 RT: 15.34 min Scan# 4231
 Delta R.T. 0.06 min
 Lab File: VN064148.D
 Acq: 15 Oct 2020 17:07

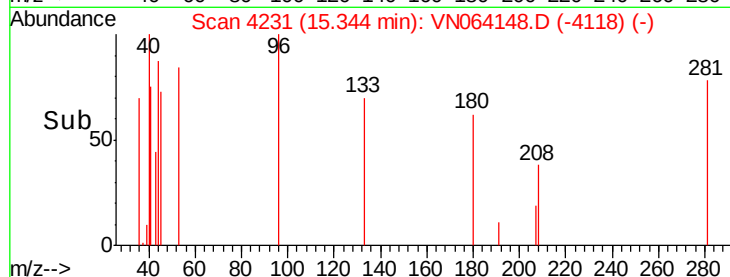
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.6	139.8#
145	0.0	16.1	48.2#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

15.34



Time-->