

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064149.D
 Acq On : 15 Oct 2020 17:31
 Operator : JC/MD
 Sample : L4415-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-101220

Quant Time: Oct 16 02:26:09 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	278253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	537623	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	563964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	203519	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	225618	56.93	ug/l	0.00
Spiked Amount			Recovery	=	113.86%	
35) Dibromofluoromethane	7.55	113	187825	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
50) Toluene-d8	10.06	98	692220	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	12.38	95	242085	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	

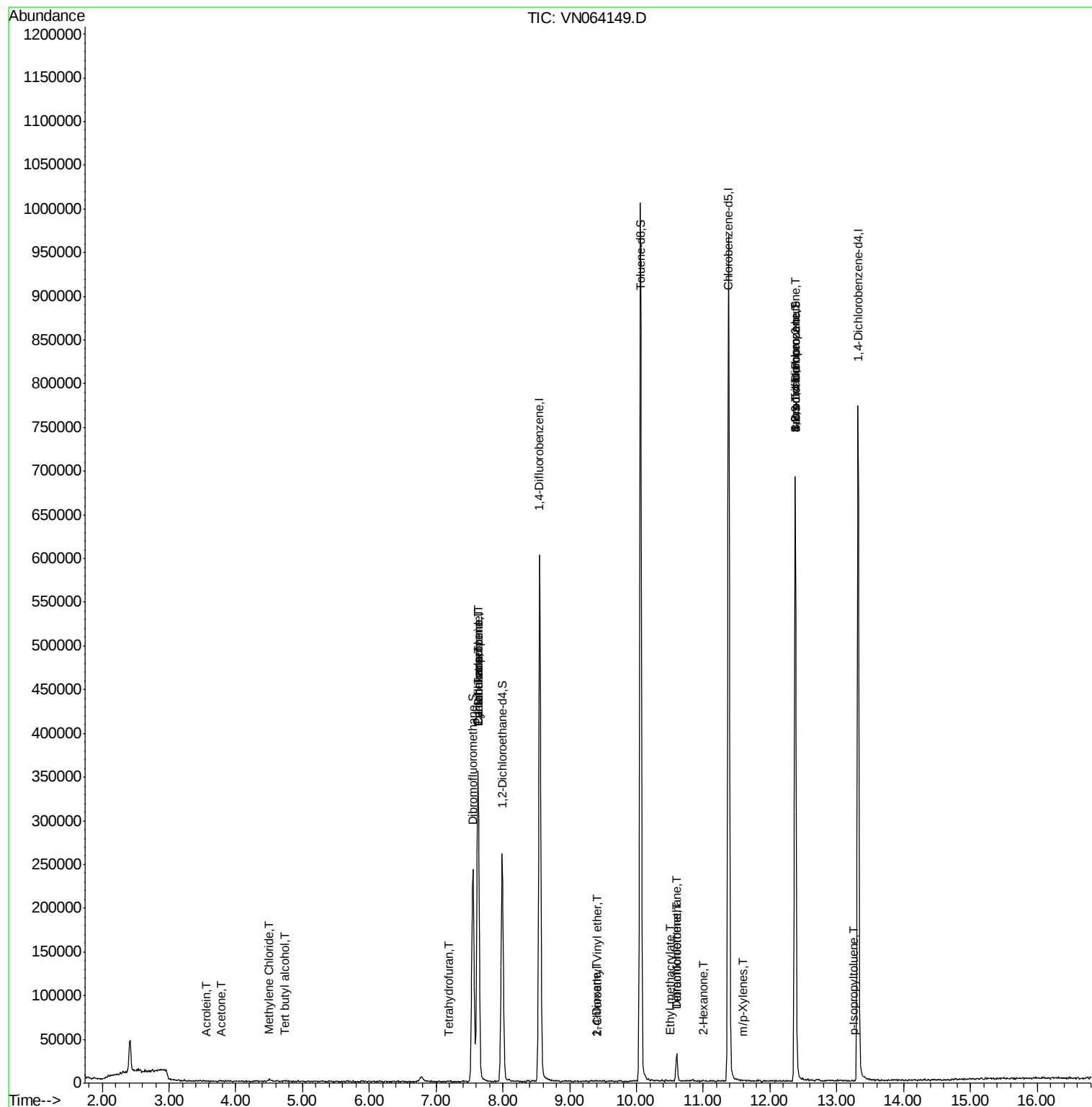
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	115	0.262	ug/l #	71
13) Acrolein	3.56	56	137	0.380	ug/l #	15
16) Acetone	3.79	43	581	0.494	ug/l #	43
20) Methylene Chloride	4.50	84	854	0.235	ug/l #	63
29) Tetrahydrofuran	7.18	42	308	0.291	ug/l #	31
31) Cyclohexane	7.63	56	7467	1.704	ug/l #	55
36) 1,1-Dichloropropene	7.63	75	23675	4.569	ug/l #	50
38) Carbon Tetrachloride	7.63	117	29853	5.357	ug/l #	17
49) 1,4-Dioxane	9.39	88	102	1.906	ug/l #	1
56) Ethyl methacrylate	10.51	69	31	2.304	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.41	63	29	12.229	ug/l #	48
59) 2-Hexanone	10.99	43	71	6.858	ug/l	83
60) Dibromochloromethane	10.60	129	6196	1.381	ug/l #	11
64) Tetrachloroethene	10.60	164	6705	1.577	ug/l	99
68) m/p-Xylenes	11.59	106	60	2.199	ug/l	97
71) Bromoform	12.37	173	1082	2.508	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	124462	26.067	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124462	79.639	ug/l #	12
86) p-Isopropyltoluene	13.26	119	68	0.668	ug/l #	50

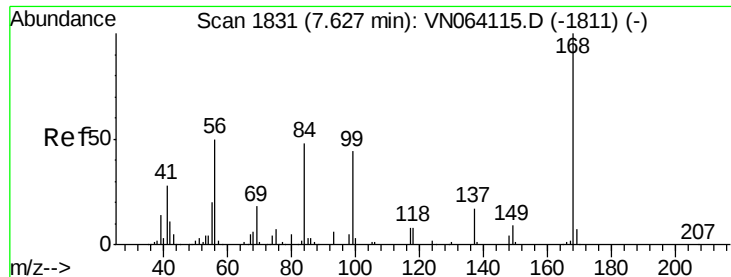
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

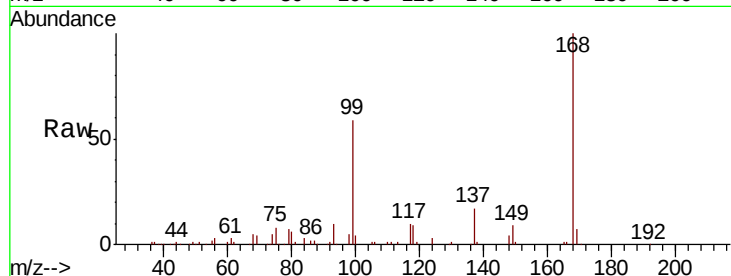
HR-01-101220

Tot Ion:168 Resp: 278253

Ion Ratio Lower Upper

168 100

99 58.6 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

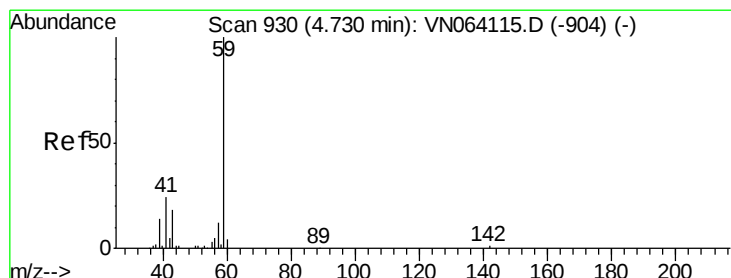
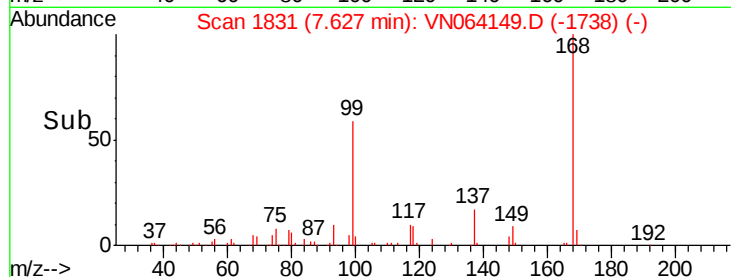
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.262 ug/l

RT: 4.73 min Scan# 929

Delta R.T. -0.00 min

Lab File: VN064149.D

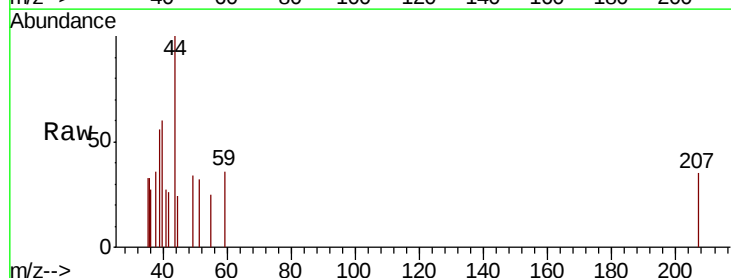
Acq: 15 Oct 2020 17:31

Tgt Ion: 59 Resp: 115

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

250

200

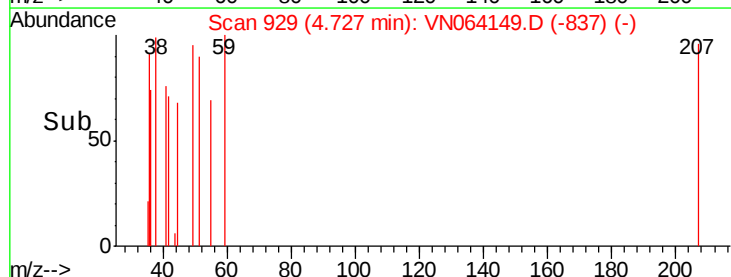
150

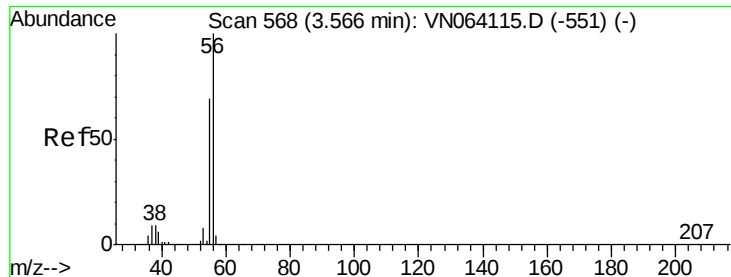
100

50

0

Time--> 4.71 4.72 4.73 4.74





#13

Acrolein

Concen: 0.380 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

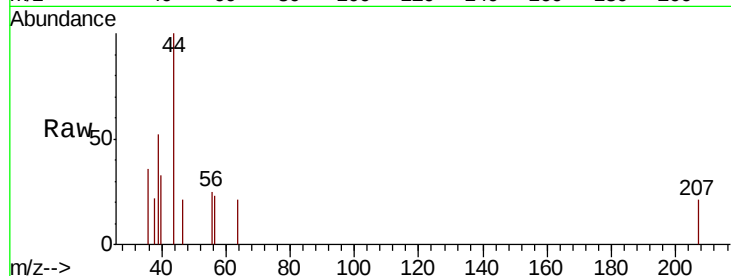
HR-01-101220

Tot Ion: 56 Resp: 137

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.56

400

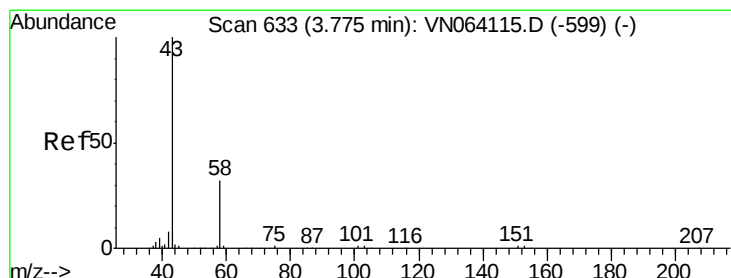
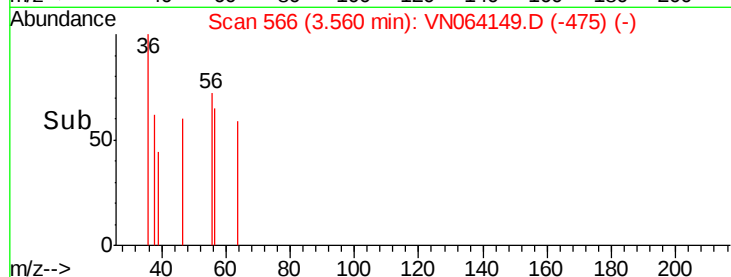
300

200

100

0

Time-->



#16

Acetone

Concen: 0.494 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN064149.D

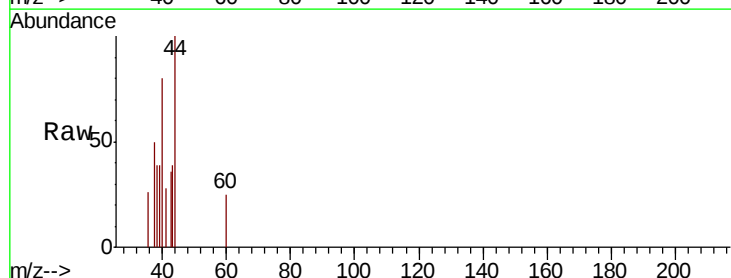
Acq: 15 Oct 2020 17:31

Tgt Ion: 43 Resp: 581

Ion Ratio Lower Upper

43 100

58 0.0 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.79

500

400

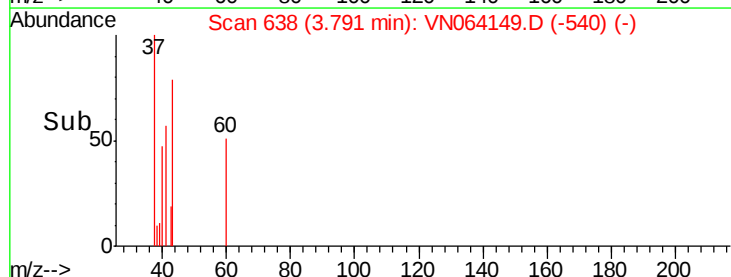
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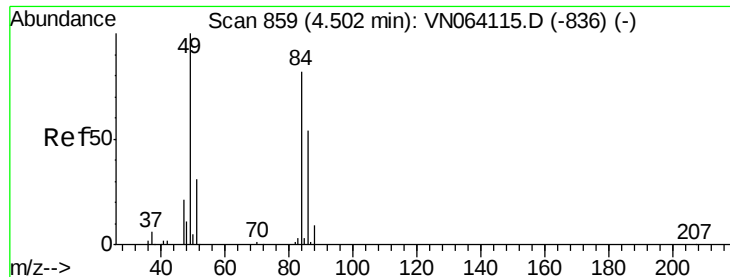
200

100

0

Time-->

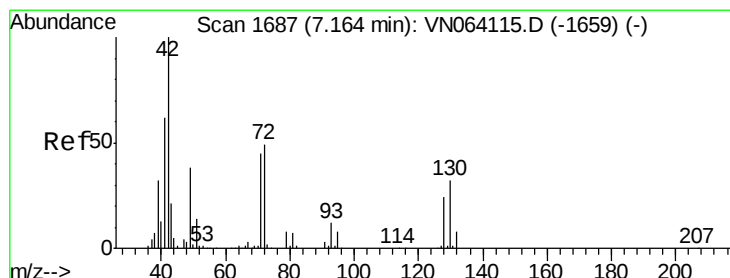
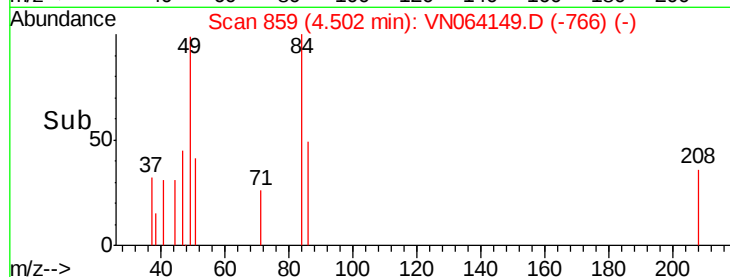
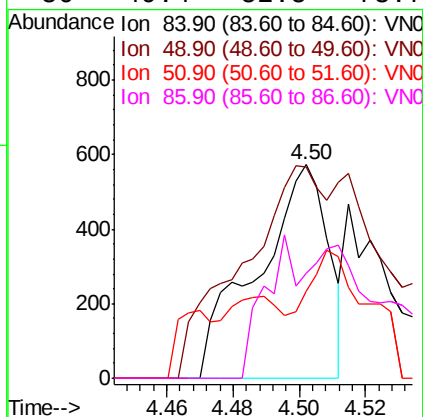
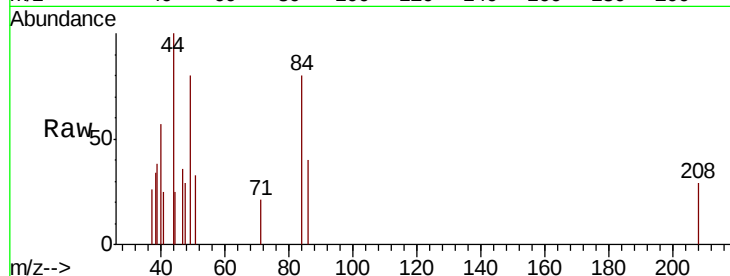




#20
Methvlene Chloride
Concen: 0.235 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064149.D
Acq: 15 Oct 2020 17:31

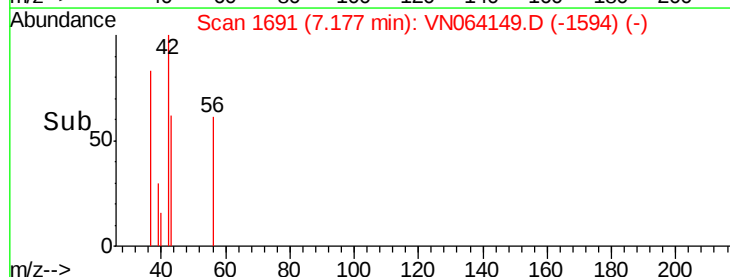
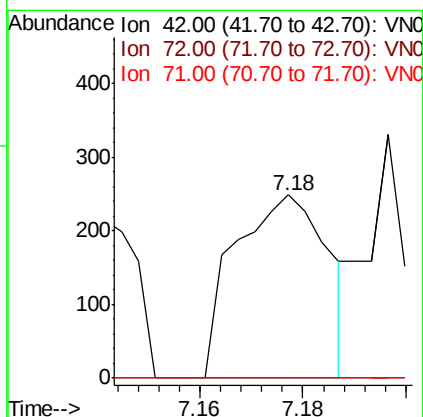
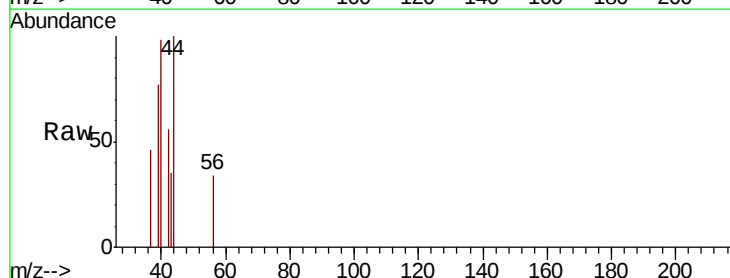
Instrument :
MSVOA_N
ClientSampled :
HR-01-101220

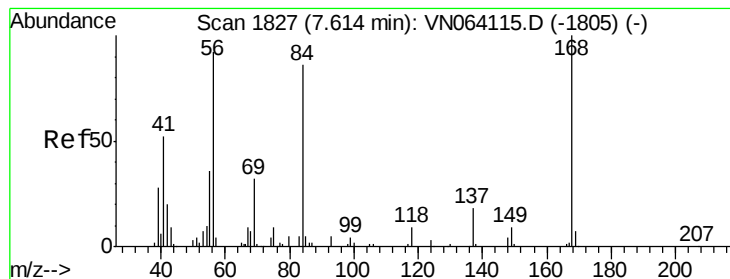
Tot Ion: 84 Resp: 854
Ion Ratio Lower Upper
84 100
49 72.9 97.4 146.0#
51 10.5 29.7 44.5#
86 49.4 52.5 78.7#



#29
Tetrahydrofuran
Concen: 0.291 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN064149.D
Acq: 15 Oct 2020 17:31

Tgt Ion: 42 Resp: 308
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 35.3 52.9#





#31

Cvclohexane

Concen: 1.704 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

HR-01-101220

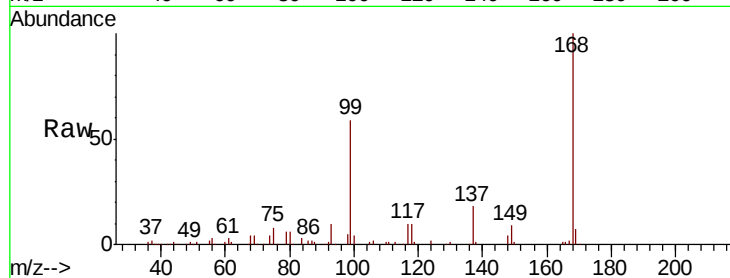
Tot Ion: 56 Resp: 7467

Ion Ratio Lower Upper

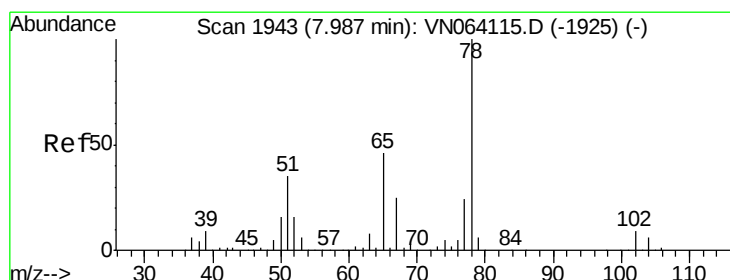
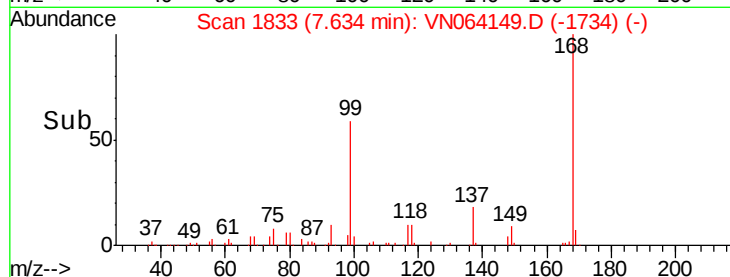
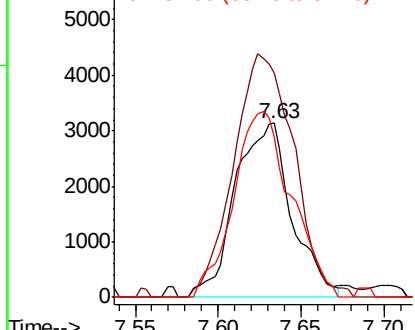
56 100

69 129.2 27.8 41.6#

84 92.0 73.2 109.8



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: 56.933 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064149.D

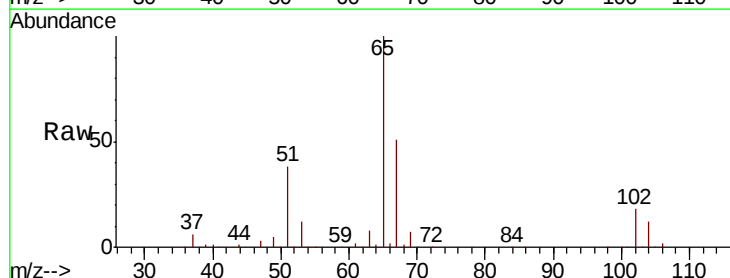
Acq: 15 Oct 2020 17:31

Tgt Ion: 65 Resp: 225618

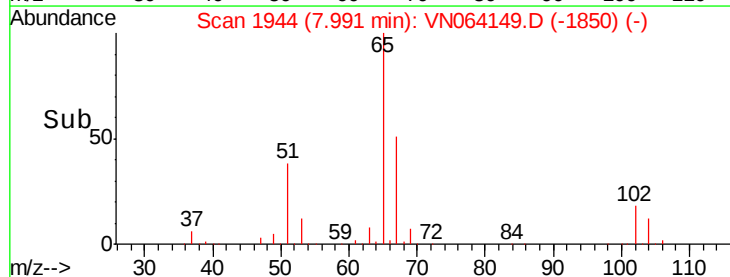
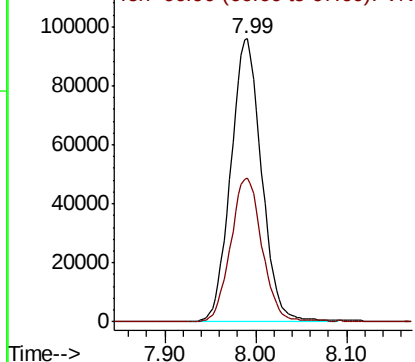
Ion Ratio Lower Upper

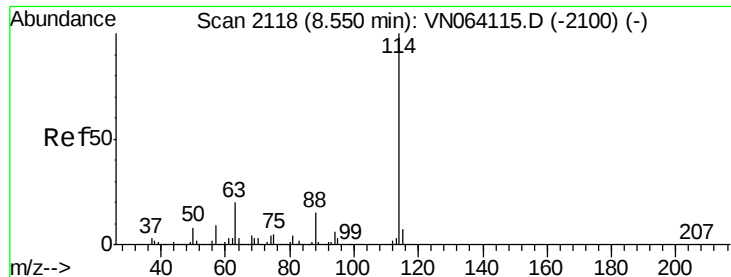
65 100

67 51.9 0.0 105.6



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

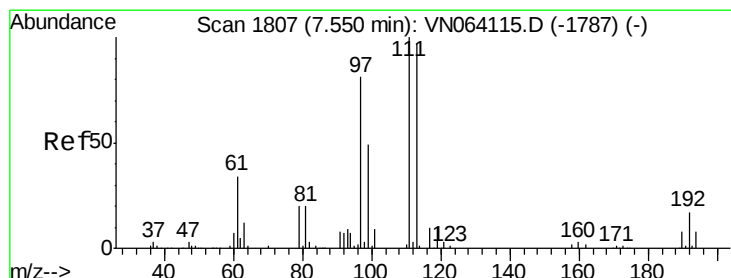
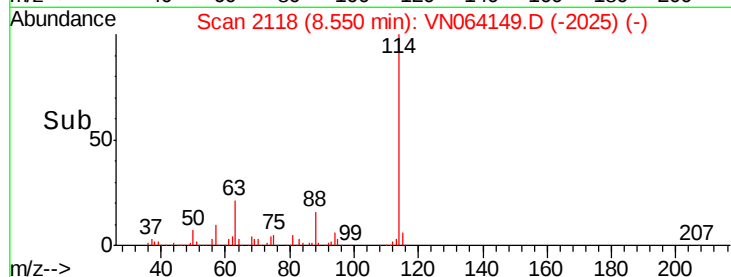
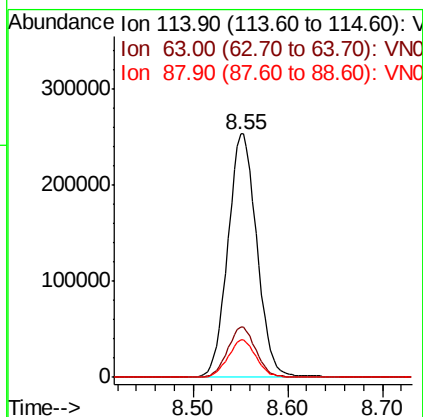
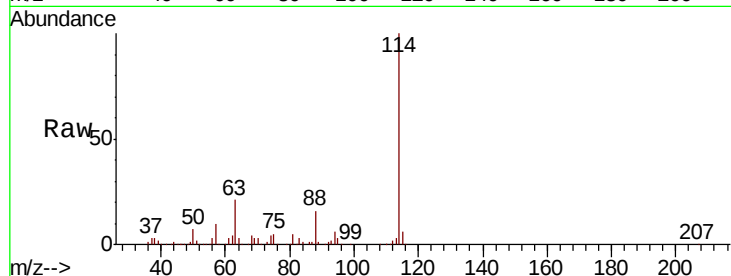




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064149.D
 Acq: 15 Oct 2020 17:31

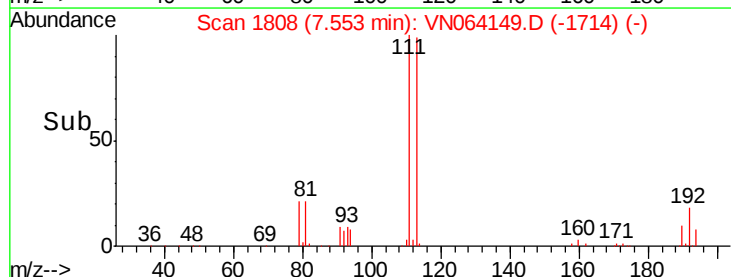
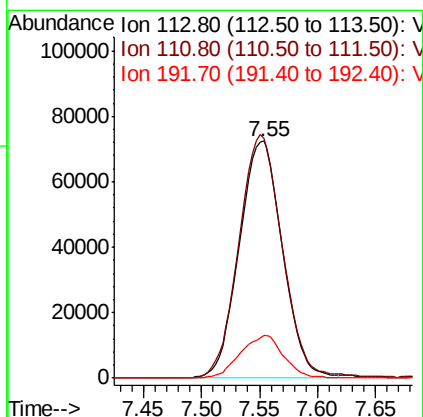
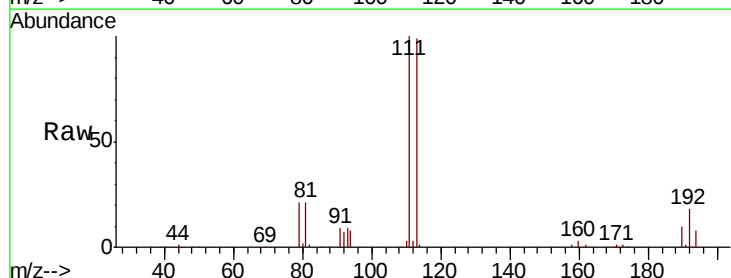
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-01-101220

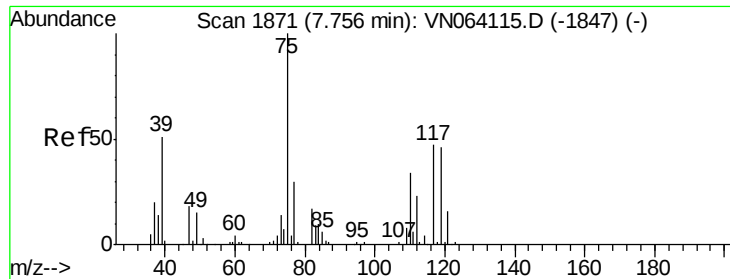
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	41.0
88	15.6	0.0	29.2



#35
 Dibromofluoromethane
 Concen: 50.475 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.00 min
 Lab File: VN064149.D
 Acq: 15 Oct 2020 17:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.9	122.9
192	18.0	14.3	21.5

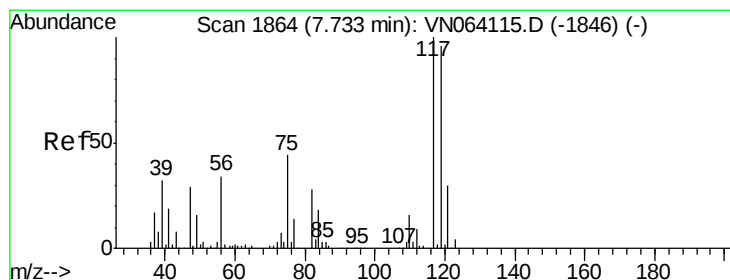
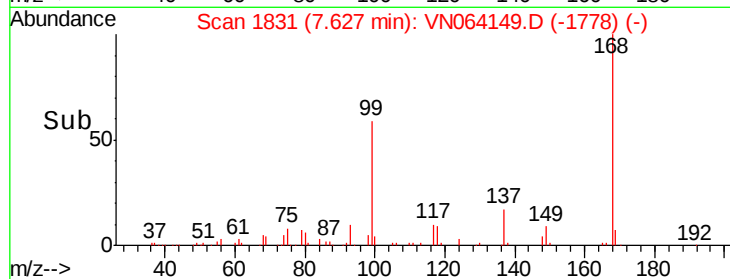
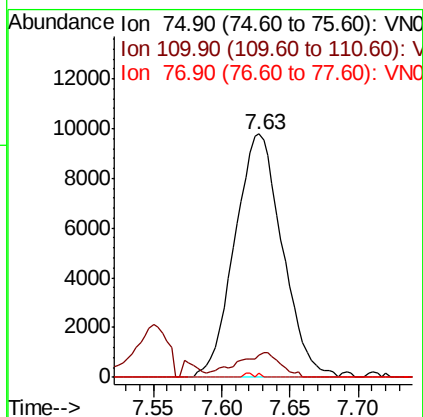
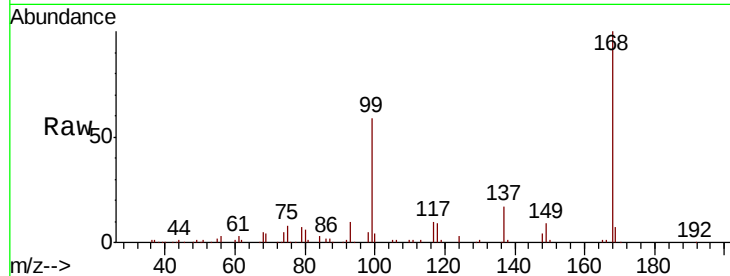




#36
 1,1-Dichloropropene
 Concen: 4.569 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064149.D
 Acq: 15 Oct 2020 17:31

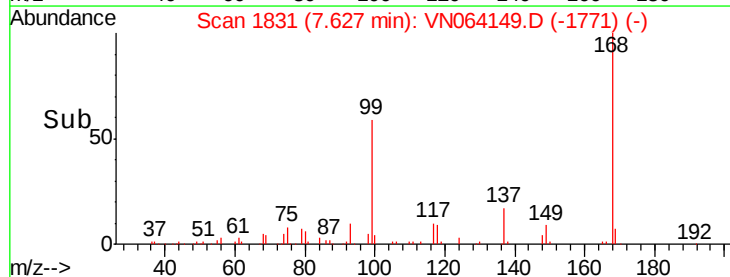
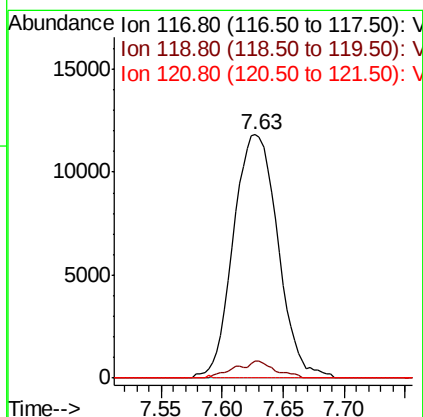
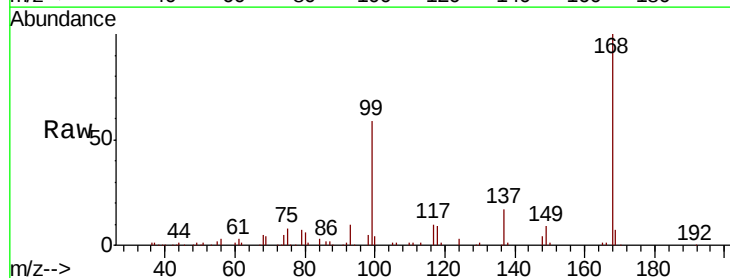
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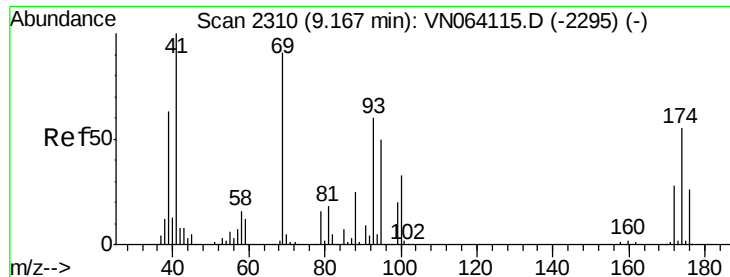
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.8	53.3#
77	0.4	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.357 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064149.D
 Acq: 15 Oct 2020 17:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	77.0	115.4#
121	0.0	24.2	36.4#

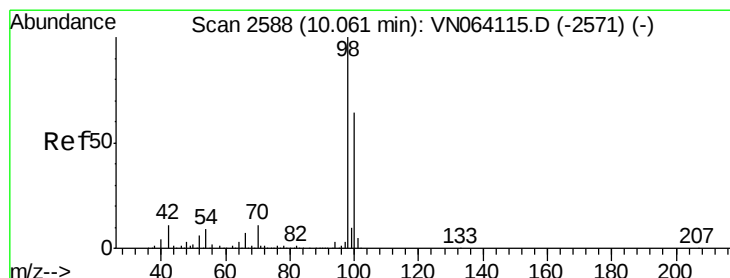
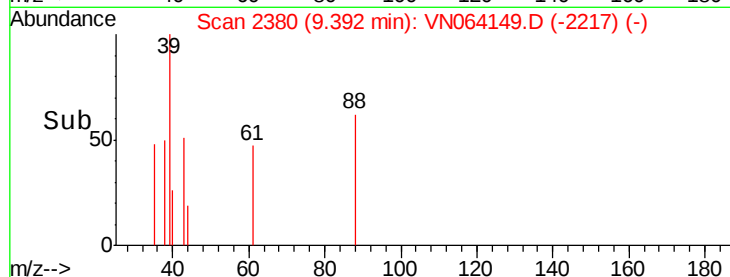
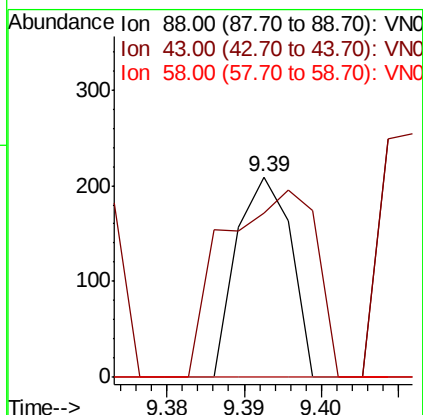
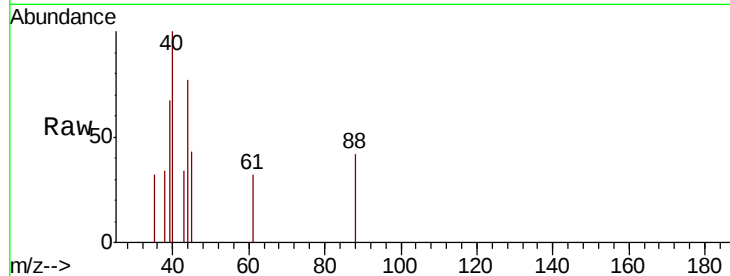




#49
 1,4-Dioxane
 Concen: 1.906 ug/l
 RT: 9.39 min Scan# 2380
 Delta R.T. 0.23 min
 Lab File: VN064149.D
 Acq: 15 Oct 2020 17:31

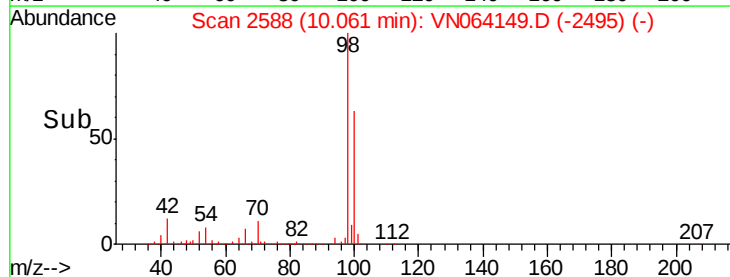
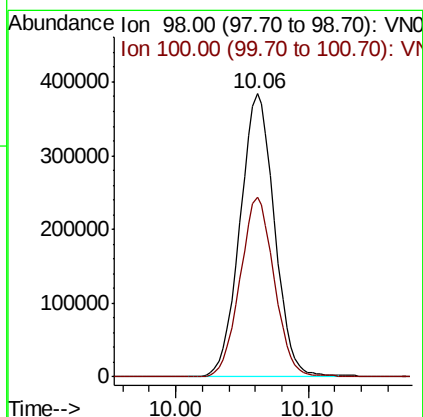
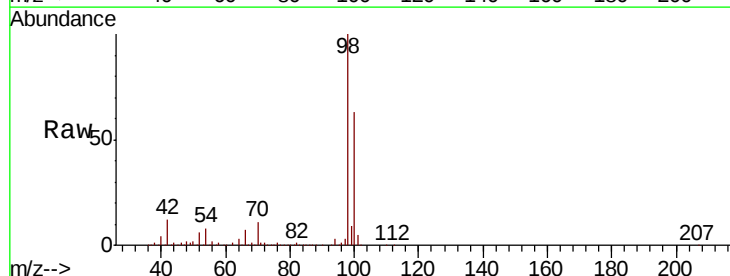
Instrument :
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 ClientSampleId :
 HR-01-101220

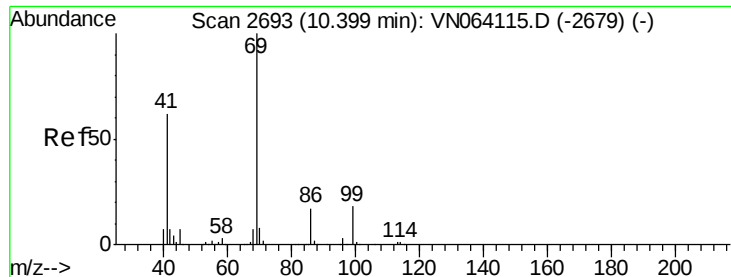
Tot Ion: 88 Resp: 102
 Ion Ratio Lower Upper
 88 100
 43 160.8 27.2 40.8#
 58 0.0 52.6 78.8#



#50
 Toluene-d8
 Concen: 49.302 ug/l
 RT: 10.06 min Scan# 2588
 Delta R.T. 0.00 min
 Lab File: VN064149.D
 Acq: 15 Oct 2020 17:31

Tgt Ion: 98 Resp: 692220
 Ion Ratio Lower Upper
 98 100
 100 63.5 50.8 76.2





#56

Ethyl methacrylate

Concen: 2.304 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

HR-01-101220

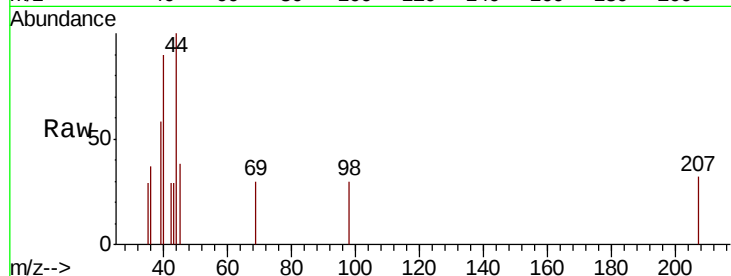
Tot Ion: 69 Resp: 31

Ion Ratio Lower Upper

69 100

41 622.6 49.3 73.9#

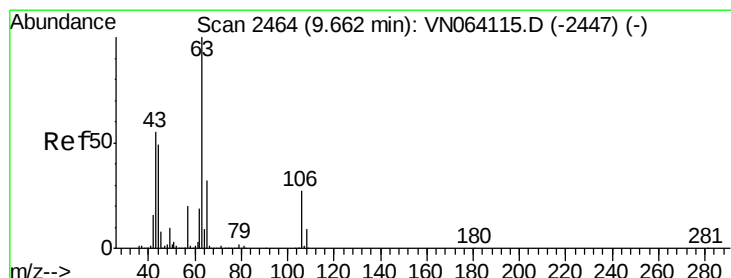
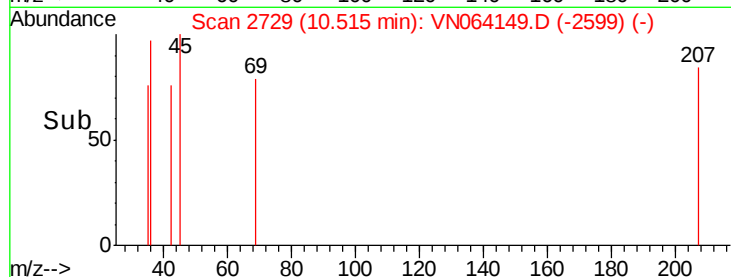
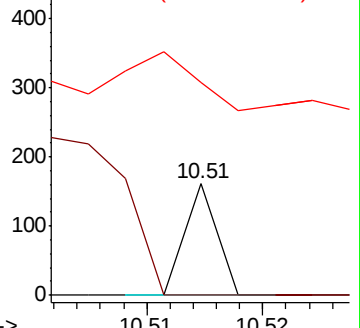
39 0.0 32.7 49.1#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 12.229 ug/l

RT: 9.41 min Scan# 2385

Delta R.T. -0.25 min

Lab File: VN064149.D

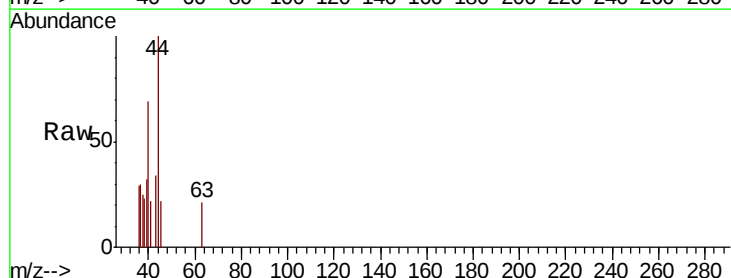
Acq: 15 Oct 2020 17:31

Tgt Ion: 63 Resp: 29

Ion Ratio Lower Upper

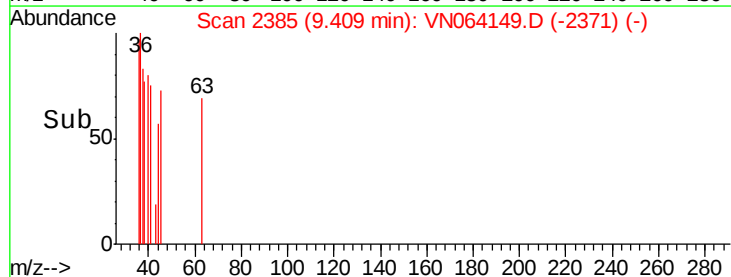
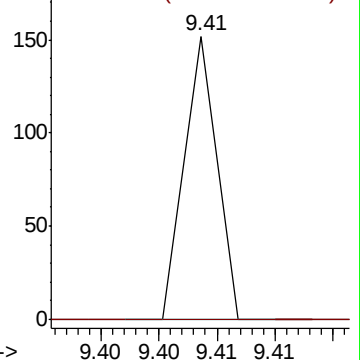
63 100

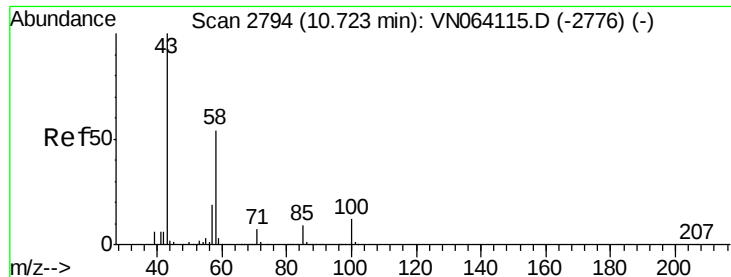
106 0.0 21.8 32.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

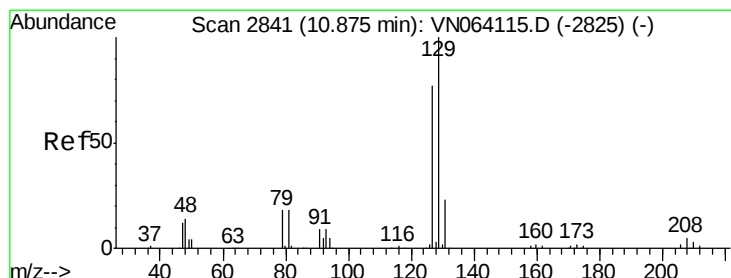
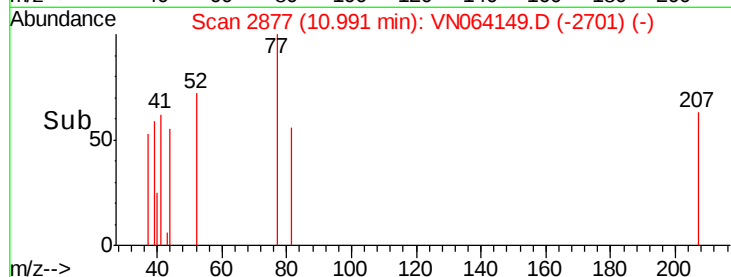
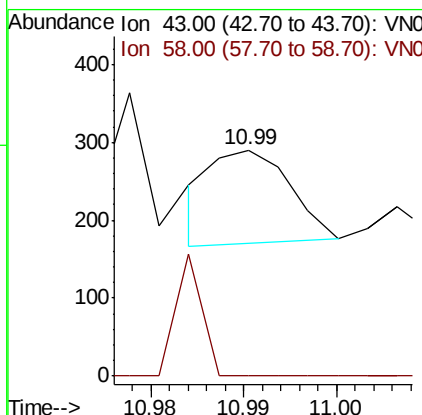
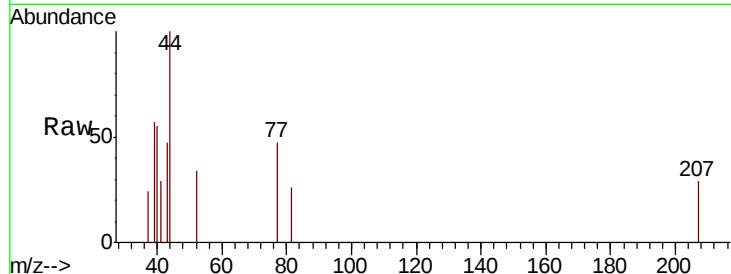




#59
2-Hexanone
Concen: 6.858 ug/l
RT: 10.99 min Scan# 2877
Delta R.T. 0.27 min
Lab File: VN064149.D
Acq: 15 Oct 2020 17:31

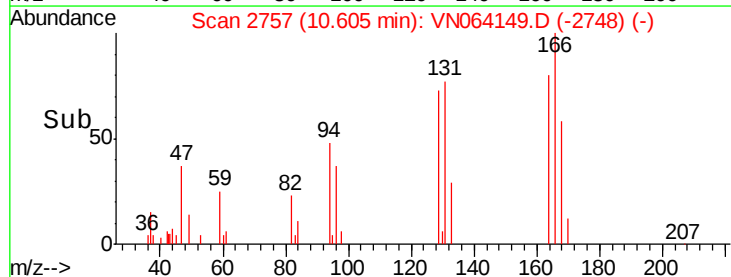
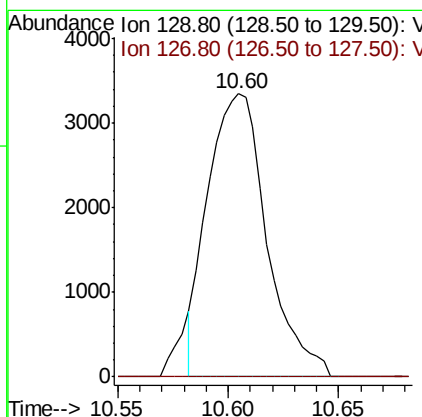
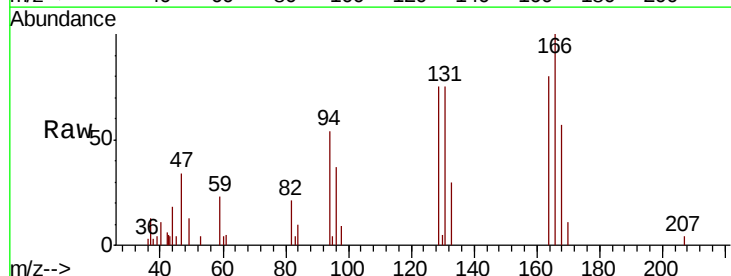
Instrument :
MSVOA_N
ClientSampled :
HR-01-101220

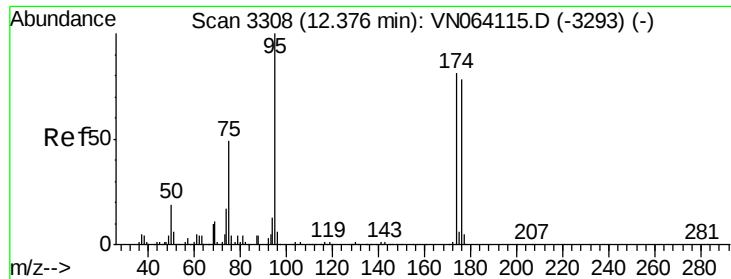
Tot Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
58 42.3 27.2 81.6



#60
Dibromochloromethane
Concen: 1.381 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN064149.D
Acq: 15 Oct 2020 17:31

Tgt Ion: 129 Resp: 6196
Ion Ratio Lower Upper
129 100
127 0.0 38.2 114.6#

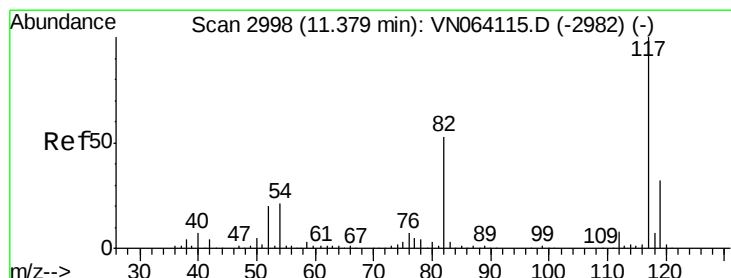
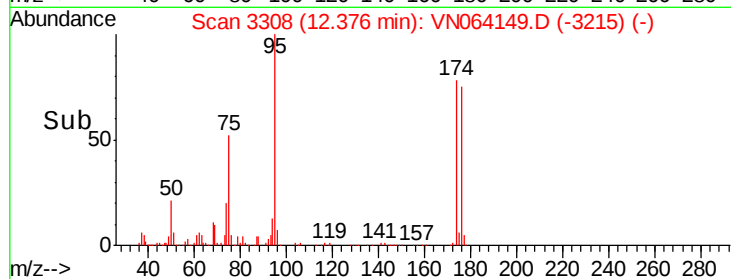
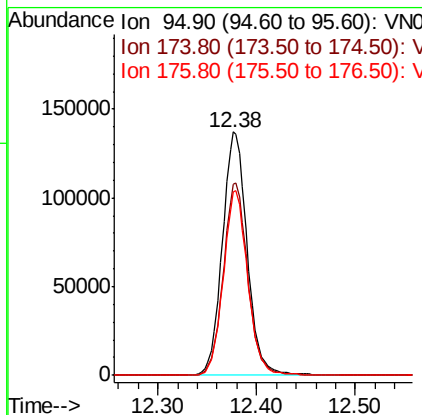
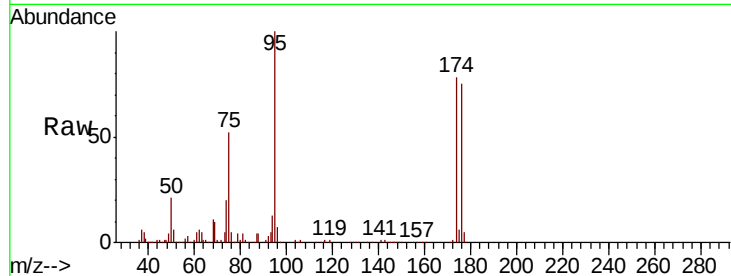




#62
4-Bromofluorobenzene
Concen: 50.162 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064149.D
Acq: 15 Oct 2020 17:31

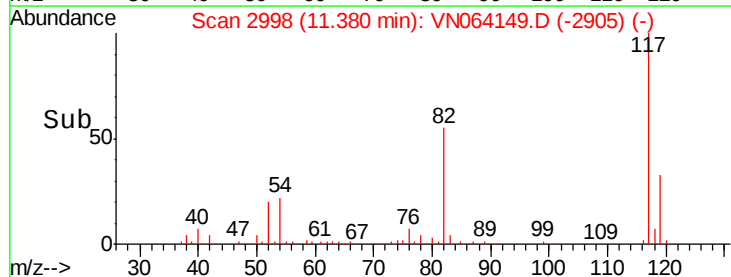
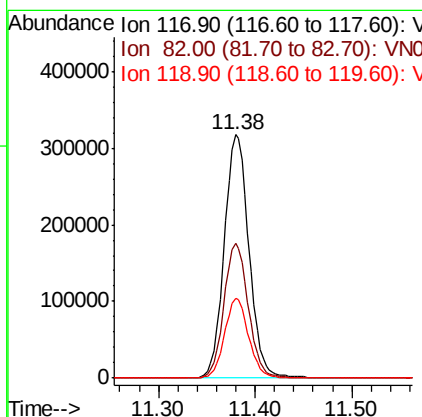
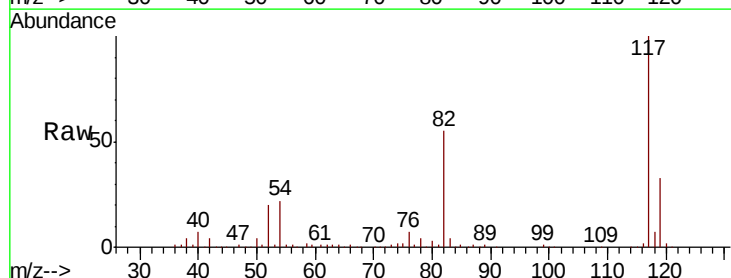
Instrument :
MSVOA_N
ClientSampleId :
HR-01-101220

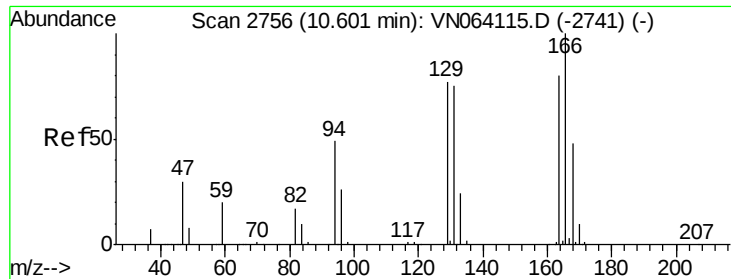
Tot Ion: 95 Resp: 242085
Ion Ratio Lower Upper
95 100
174 77.8 0.0 164.8
176 74.5 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064149.D
Acq: 15 Oct 2020 17:31

Tgt Ion: 117 Resp: 563964
Ion Ratio Lower Upper
117 100
82 55.3 42.6 63.8
119 32.8 25.5 38.3





#64

Tetrachloroethene

Concen: 1.577 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

HR-01-101220

Tot Ion:164 Resp: 6705

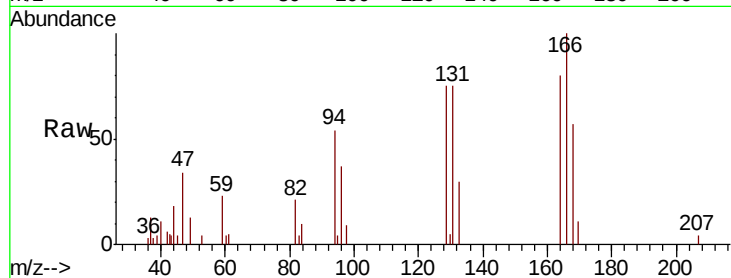
Ion Ratio Lower Upper

164 100

166 124.9 99.7 149.5

129 93.2 77.0 115.4

131 93.9 74.6 111.8

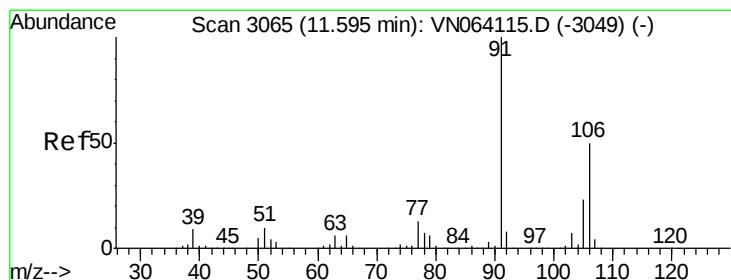
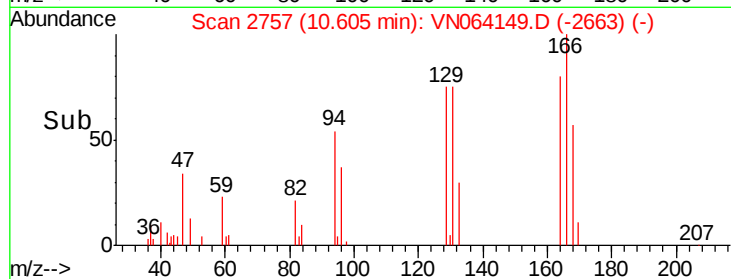
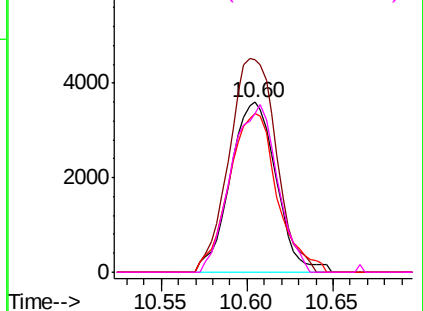


Abundance Ion 163.80 (163.50 to 164.50): V

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: 2.199 ug/l

RT: 11.59 min Scan# 3064

Delta R.T. -0.00 min

Lab File: VN064149.D

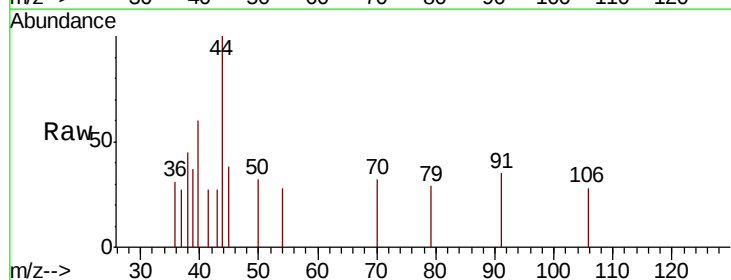
Acq: 15 Oct 2020 17:31

Tgt Ion:106 Resp: 60

Ion Ratio Lower Upper

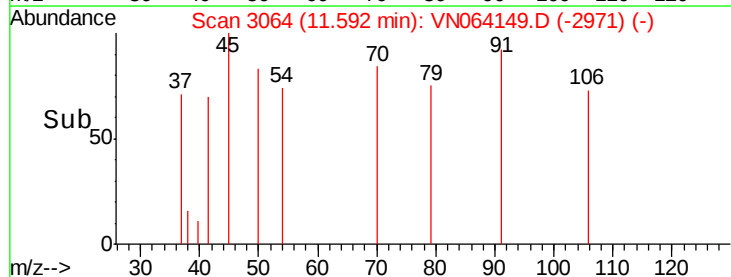
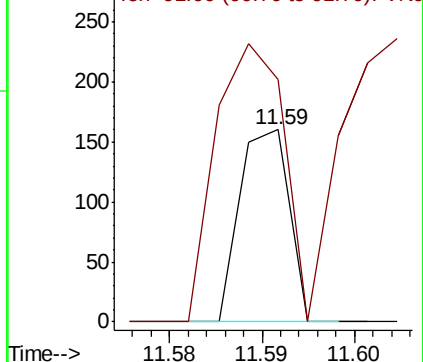
106 100

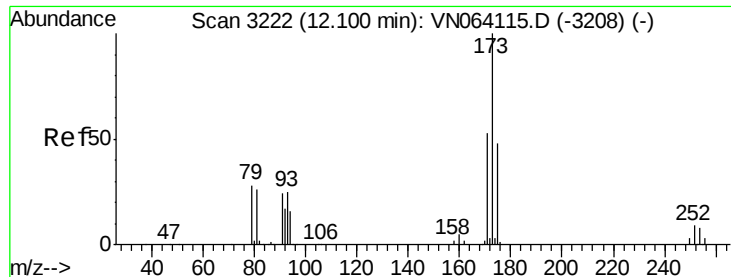
91 198.3 162.1 243.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#71

Bromoform

Concen: 2.508 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

HR-01-101220

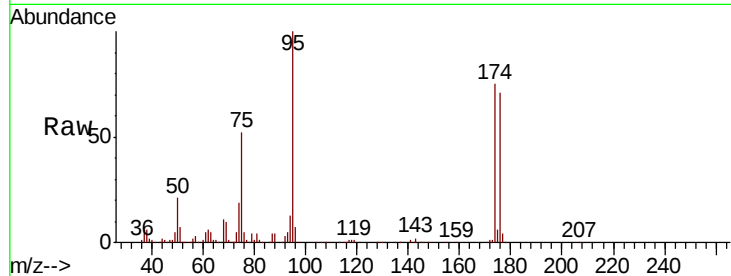
Tot Ion:173 Resp: 1082

Ion Ratio Lower Upper

173 100

175 1069.7 23.4 70.2#

254 0.0 0.1 0.1#

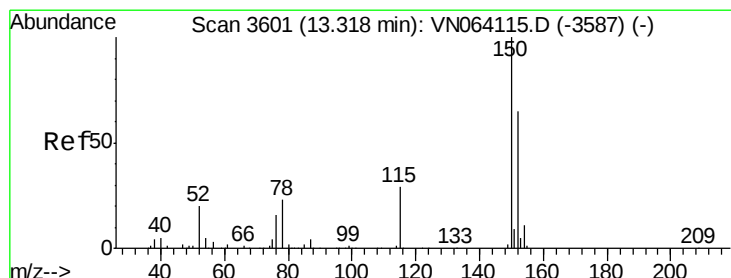
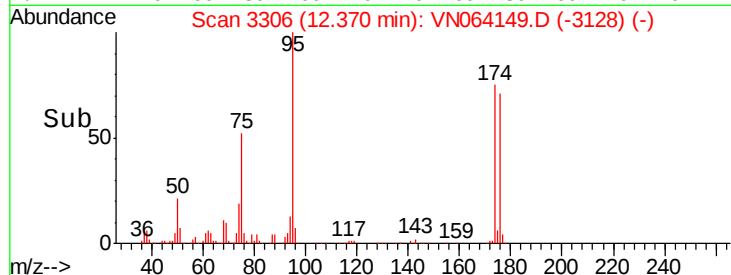
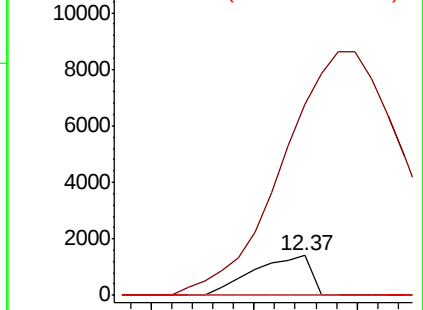


Abundance

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: VN064149.D

Acq: 15 Oct 2020 17:31

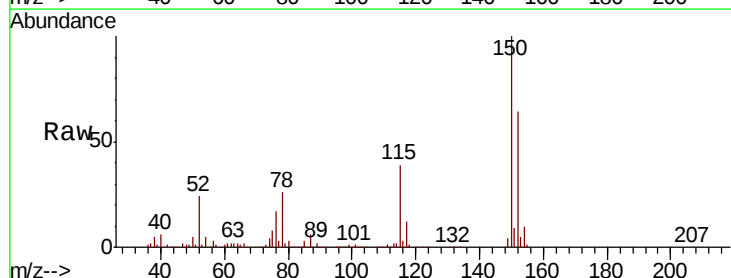
Tgt Ion:152 Resp: 203519

Ion Ratio Lower Upper

152 100

115 61.3 29.3 87.8

150 159.1 0.0 346.0

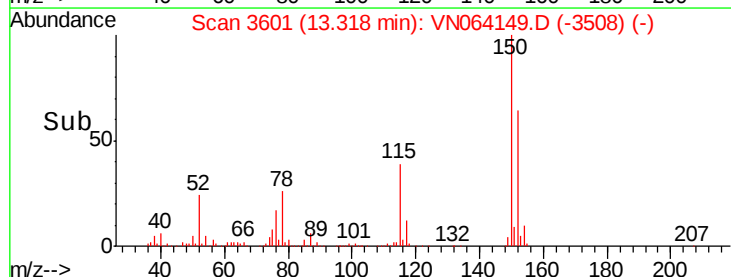
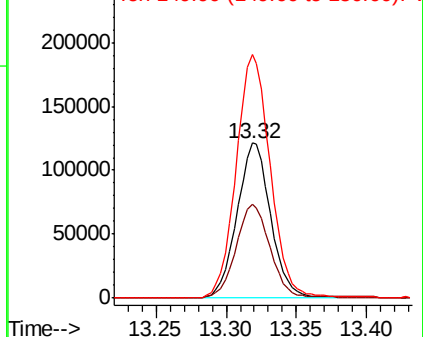


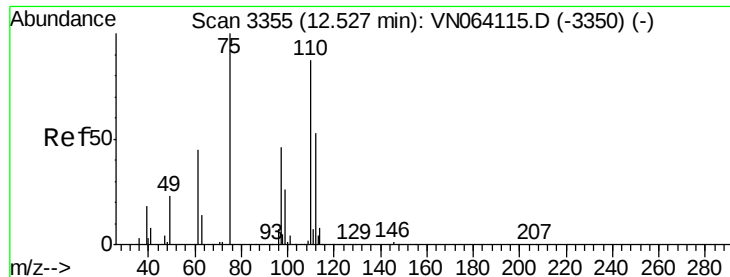
Abundance

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: 26.067 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

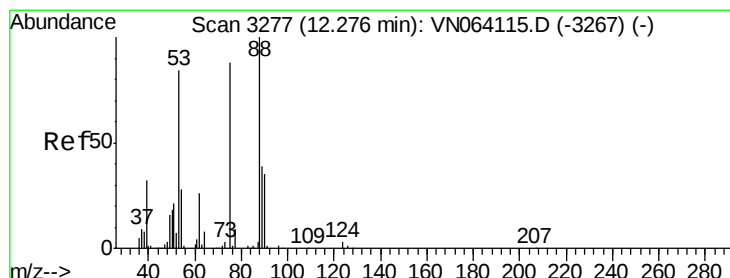
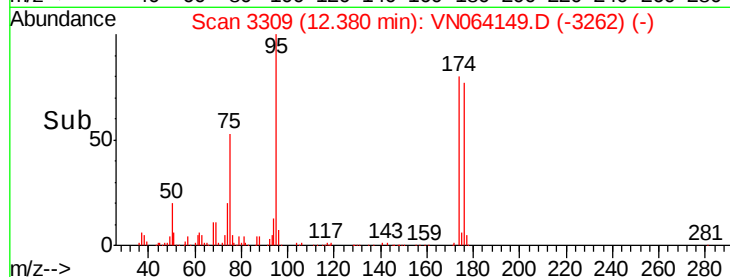
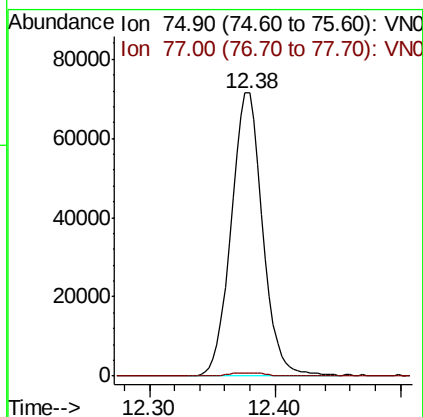
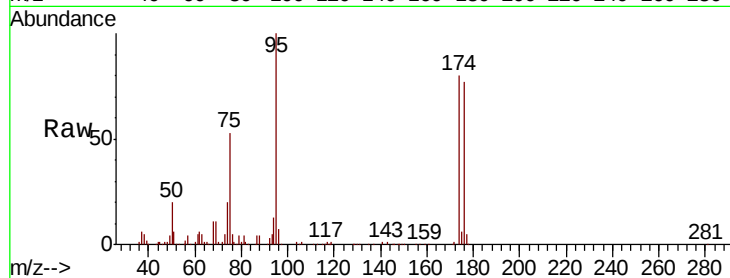
HR-01-101220

Tot Ion: 75 Resp: 124462

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.639 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

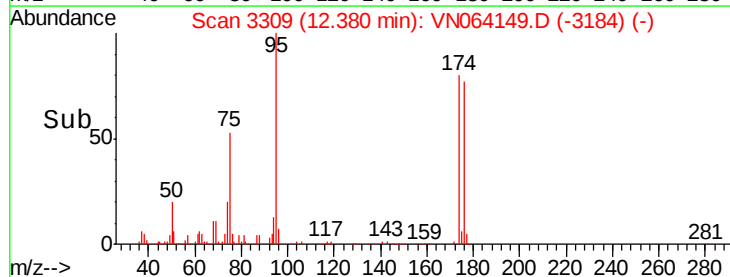
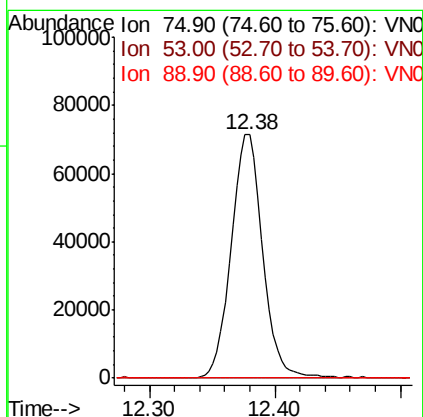
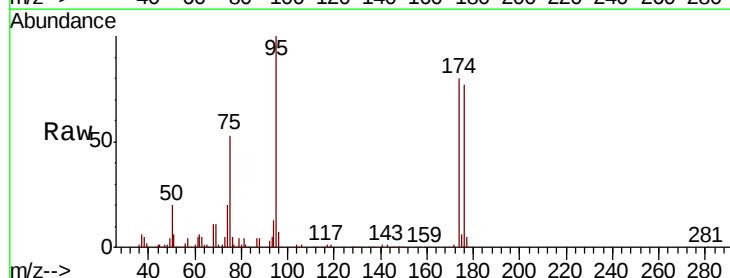
Tgt Ion: 75 Resp: 124462

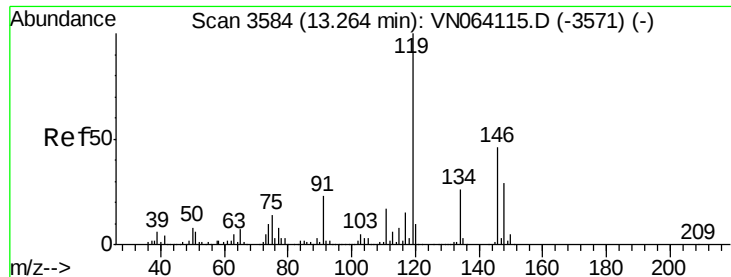
Ion Ratio Lower Upper

75 100

53 0.1 75.7 113.5#

89 0.0 36.6 55.0#





#86

p-Isopropyltoluene

Concen: 0.668 ug/l

RT: 13.26 min Scan# 3582

Delta R.T. -0.01 min

Lab File: VN064149.D

Acq: 15 Oct 2020 17:31

Instrument :

MSVOA_N

ClientSampleId :

HR-01-101220

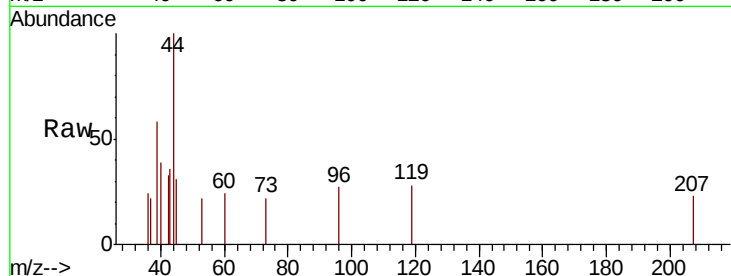
Tot Ion:119 Resp: 68

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): VN

