

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110420\
 Data File : VN064444.D
 Acq On : 4 Nov 2020 18:26
 Operator : JC/MD
 Sample : L4627-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 05 00:49:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	245542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	486288	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	500794	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	186854	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	231587	54.15	ug/l	0.00
Spiked Amount			Recovery	=	108.30%	
35) Dibromofluoromethane	7.55	113	166269	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
50) Toluene-d8	10.06	98	624232	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	12.38	95	245610	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	

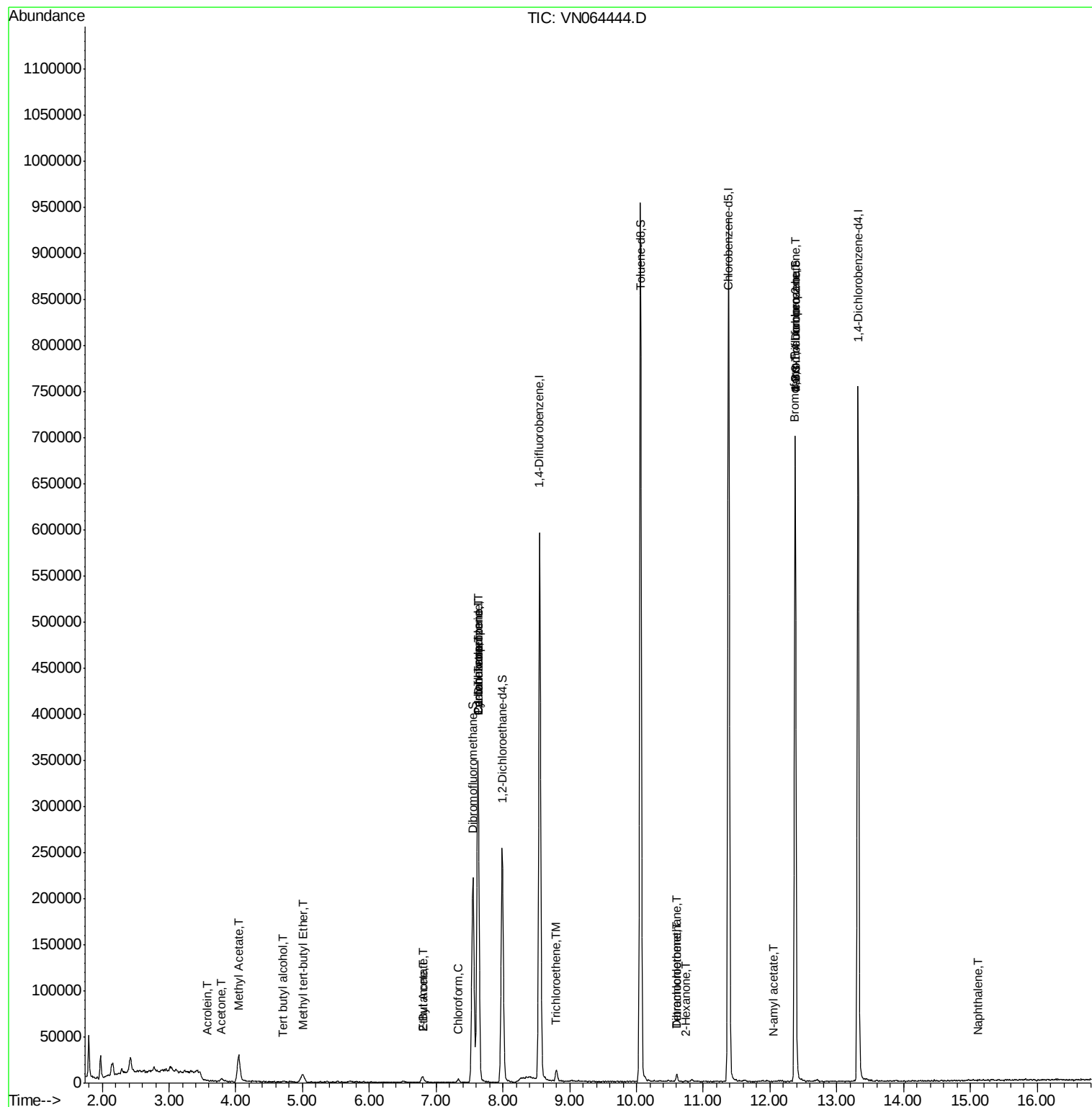
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	193	0.409	ug/l #	71
13) Acrolein	3.56	56	183	0.626	ug/l #	15
16) Acetone	3.79	43	6375	3.913	ug/l	97
18) Methyl Acetate	4.05	43	12803	3.997	ug/l #	55
19) Methyl tert-butyl Ether	5.00	73	7111	0.752	ug/l	94
25) 2-Butanone	6.79	43	1181	0.569	ug/l #	52
30) Chloroform	7.33	83	3215	0.510	ug/l	88
31) Cyclohexane	7.63	56	7344	1.413	ug/l #	24
36) 1,1-Dichloropropene	7.63	75	23874	4.647	ug/l #	52
37) Ethyl Acetate	6.79	43	1181	0.985	ug/l #	83
38) Carbon Tetrachloride	7.62	117	28149	5.127	ug/l #	18
44) Trichloroethene	8.80	130	2212	0.581	ug/l	82
59) 2-Hexanone	10.74	43	256	4.092	ug/l #	28
60) Dibromochloromethane	10.60	129	1769	0.440	ug/l #	10
64) Tetrachloroethene	10.60	164	1323	0.343	ug/l #	71
71) Bromoform	12.36	173	216	1.344	ug/l #	1
74) N-amyl acetate	12.06	43	40	1.220	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	137568	30.386	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	137568	84.842	ug/l #	8
95) Naphthalene	15.12	128	30	3.626	ug/l #	69

(#) = 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: VN064444.D

Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

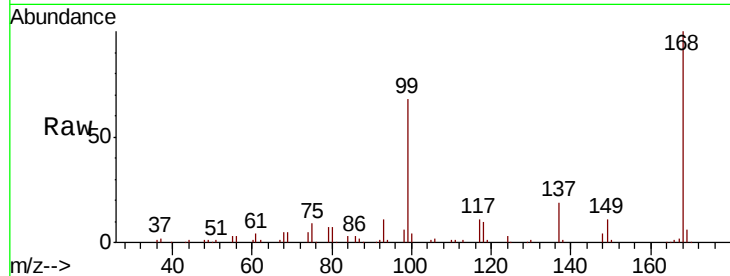
ClientSampleId :

Tot Ion:168 Resp: 245542

Ion Ratio Lower Upper

168 100

99 68.5 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

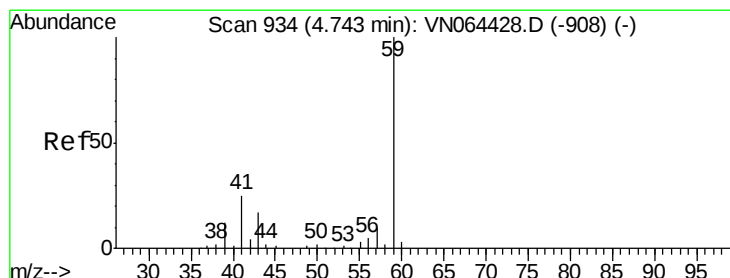
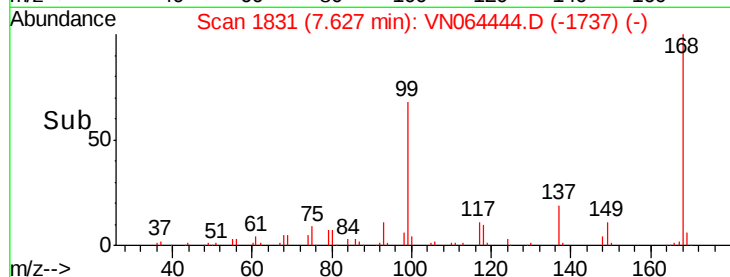
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.409 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.04 min

Lab File: VN064444.D

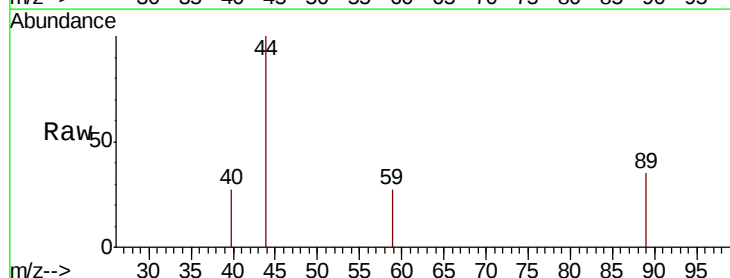
Acq: 4 Nov 2020 18:26

Tgt Ion: 59 Resp: 193

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.70

300

250

200

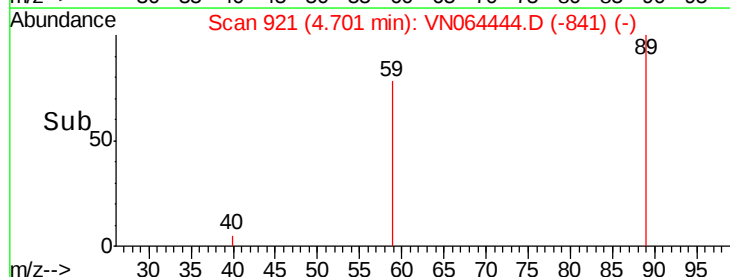
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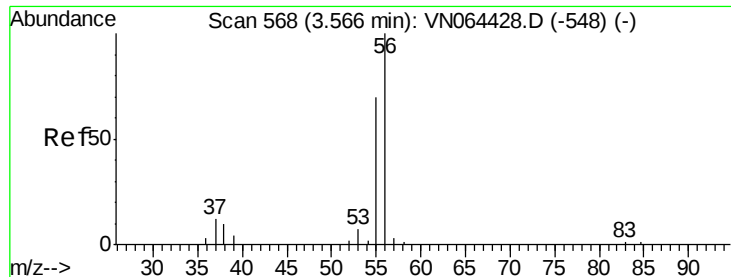
100

50

0

Time-->





#13

Acrolein

Concen: 0.626 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

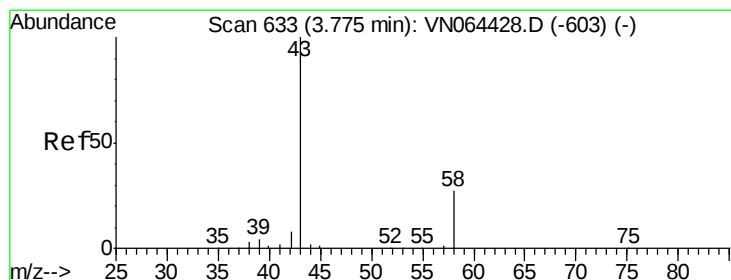
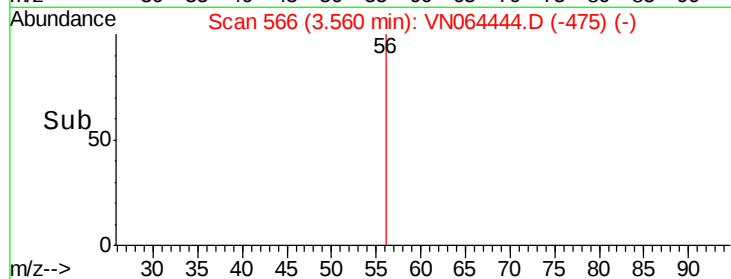
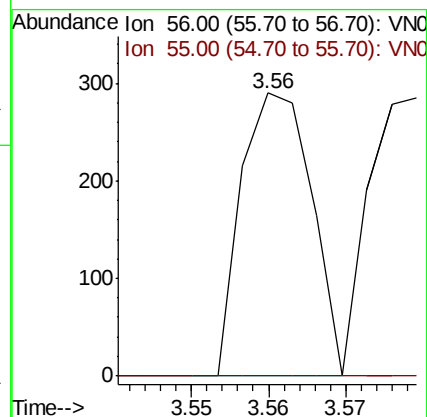
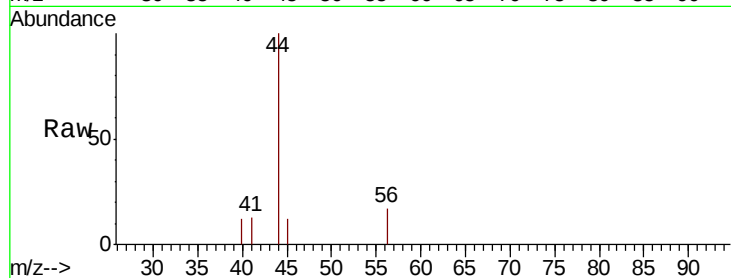
ClientSampled :

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 0.0 55.9 83.9#



#16

Acetone

Concen: 3.913 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064444.D

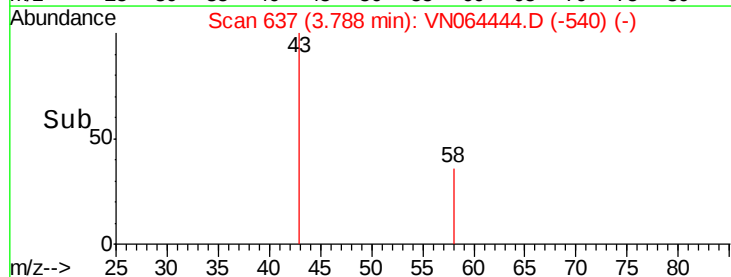
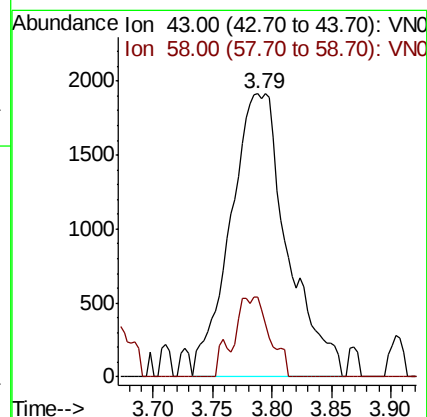
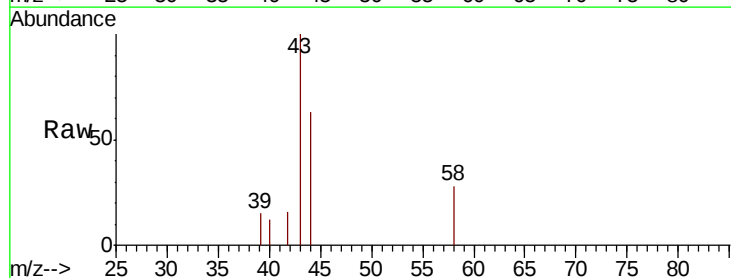
Acq: 4 Nov 2020 18:26

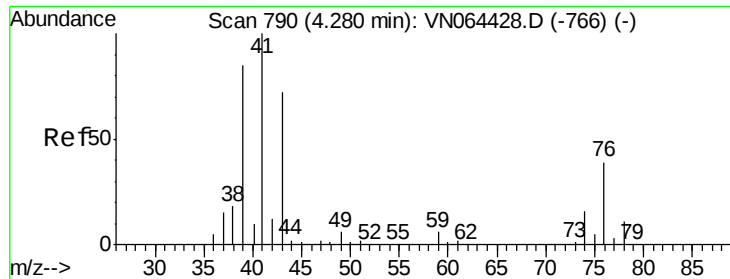
Tgt Ion: 43 Resp: 6375

Ion Ratio Lower Upper

43 100

58 28.1 21.4 32.0

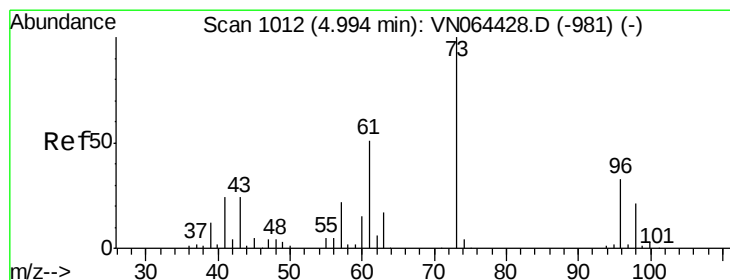
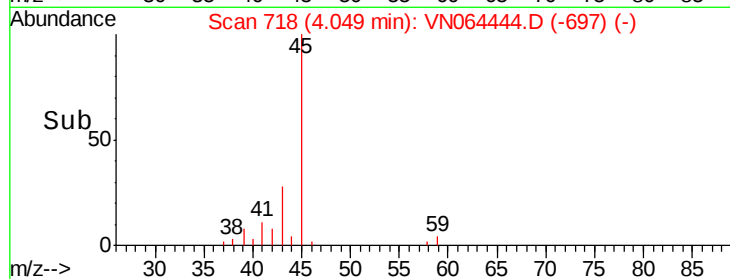
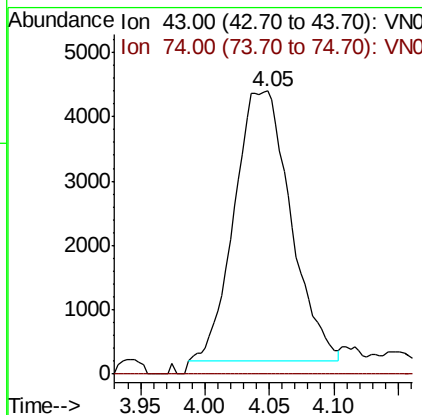
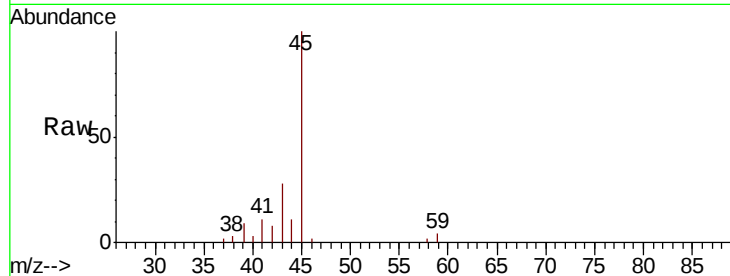




#18
Methyl Acetate
Concen: 3.997 ug/l
RT: 4.05 min Scan# 718
Delta R.T. -0.23 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

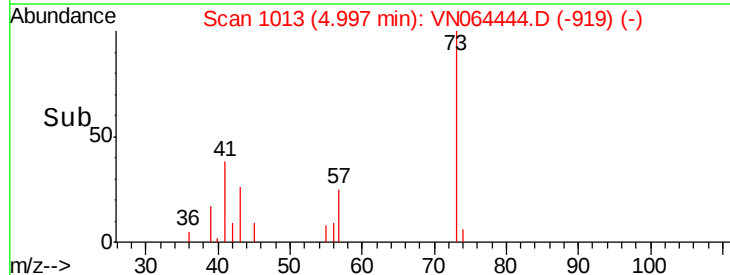
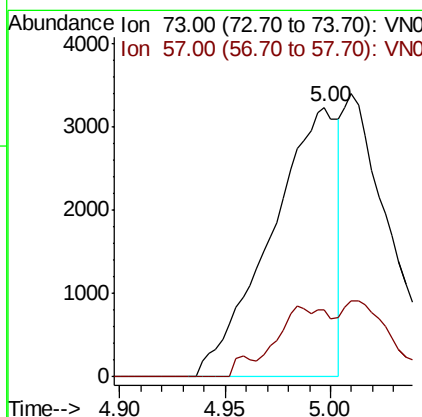
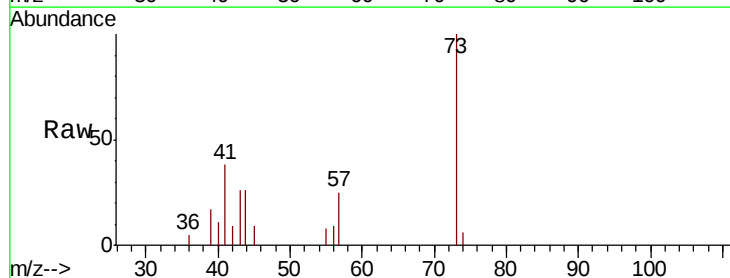
Instrument :
MSVOA_N
ClientSampled :

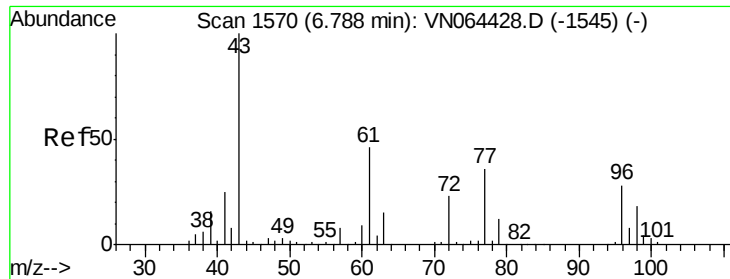
Tot Ion: 43 Resp: 12803
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#19
Methyl tert-butyl Ether
Concen: 0.752 ug/l
RT: 5.00 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Tgt Ion: 73 Resp: 7111
Ion Ratio Lower Upper
73 100
57 25.1 17.7 26.5

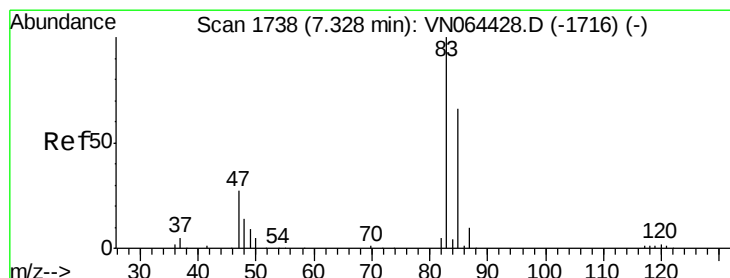
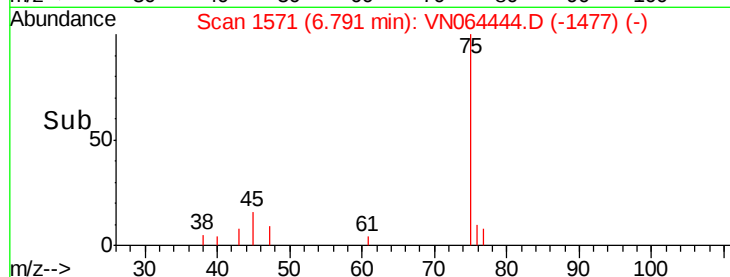
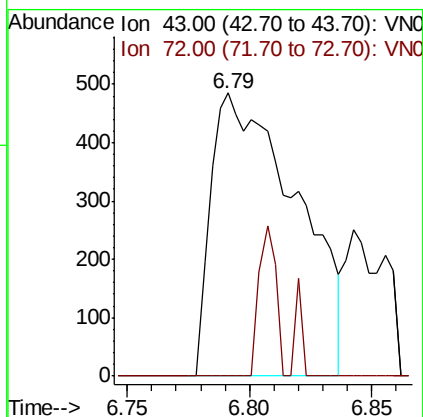
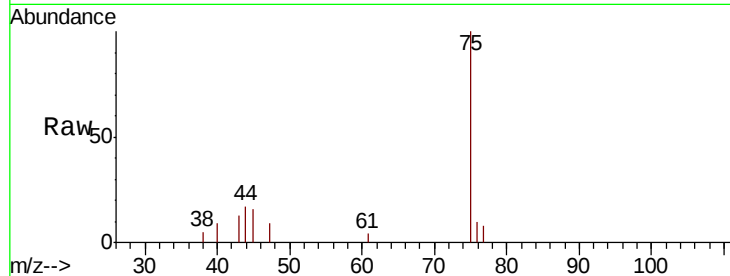




#25
2-Butanone
Concen: 0.569 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

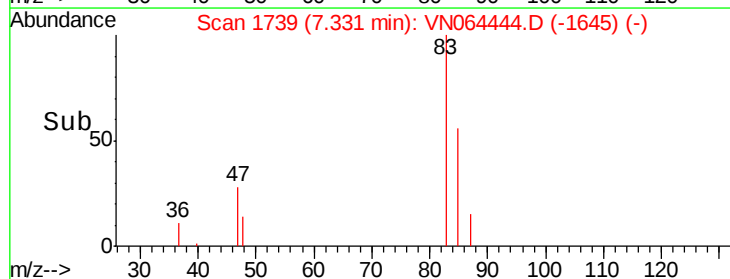
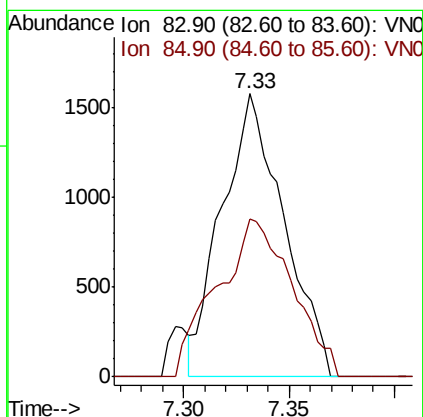
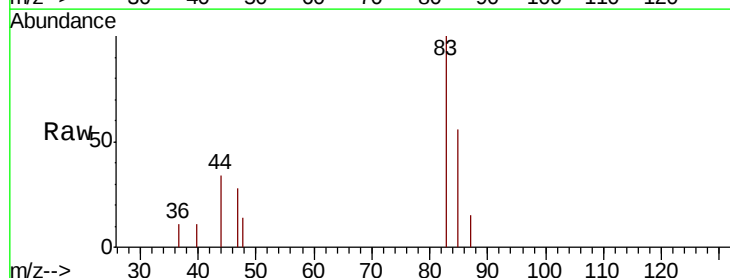
Instrument :
MSVOA_N
ClientSampled :

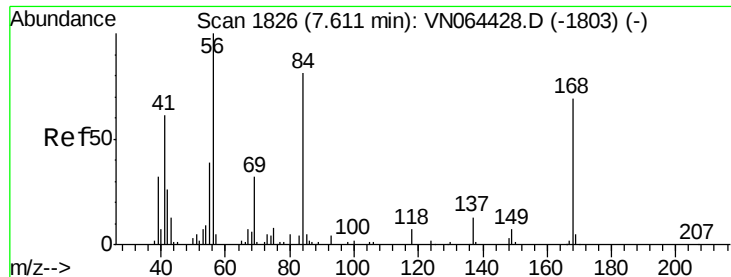
Tot Ion: 43 Resp: 1181
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#



#30
Chloroform
Concen: 0.510 ug/l
RT: 7.33 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Tgt Ion: 83 Resp: 3215
Ion Ratio Lower Upper
83 100
85 55.7 52.5 78.7

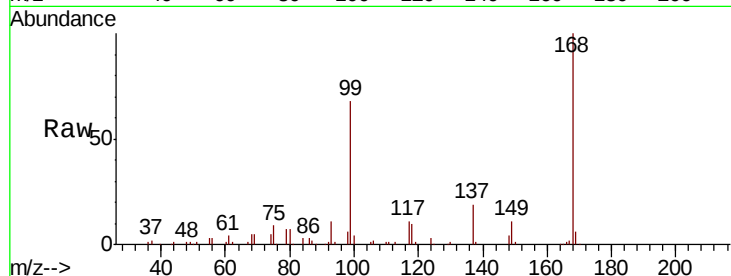




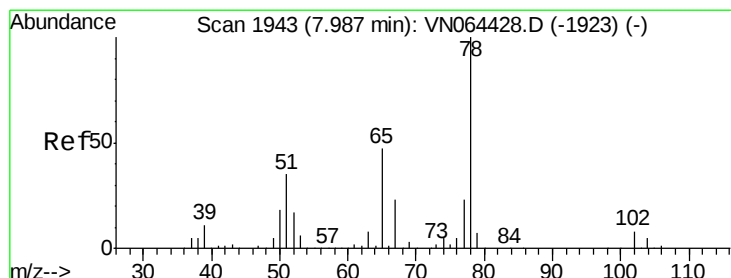
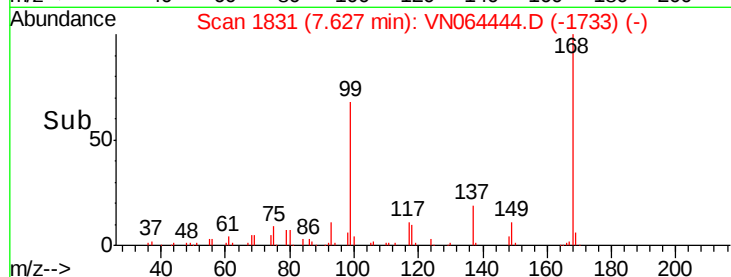
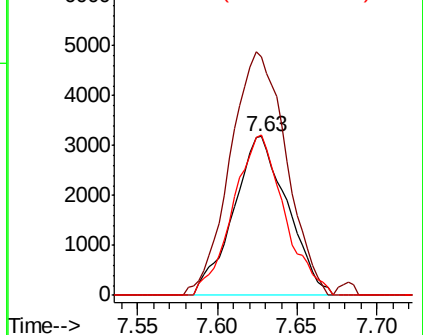
#31
Cyclohexane
Concen: 1.413 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7344
Ion Ratio Lower Upper
56 100
69 145.3 25.6 38.4#
84 100.7 63.0 94.6#

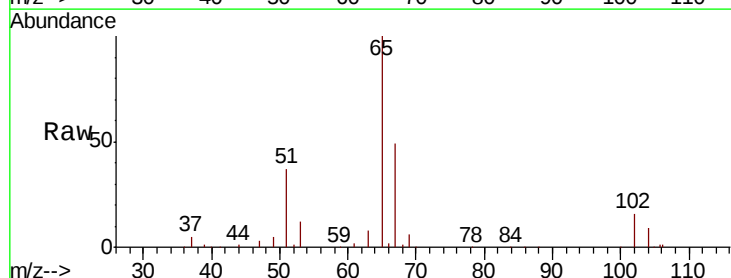


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

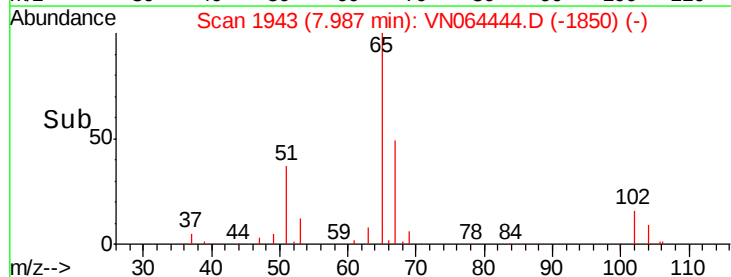
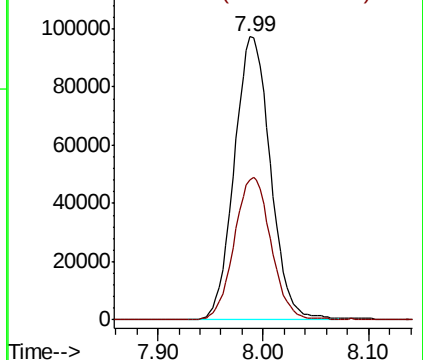


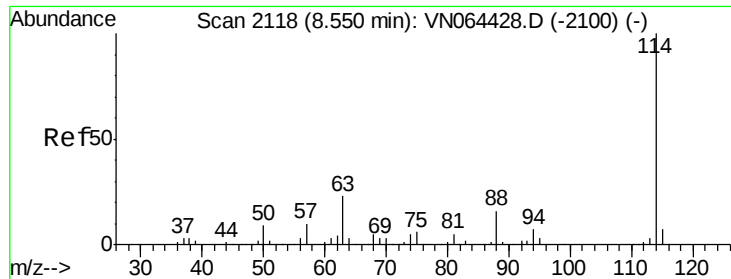
#33
1,2-Dichloroethane-d4
Concen: 54.148 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Tgt Ion: 65 Resp: 231587
Ion Ratio Lower Upper
65 100
67 50.7 0.0 101.6



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

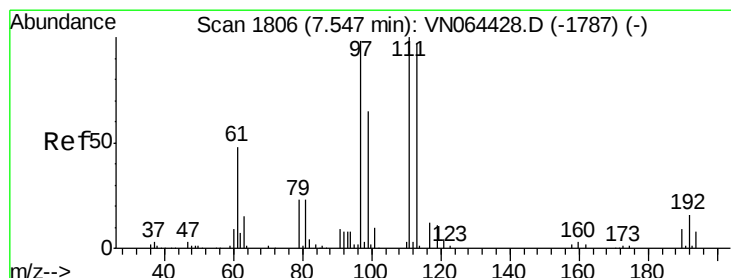
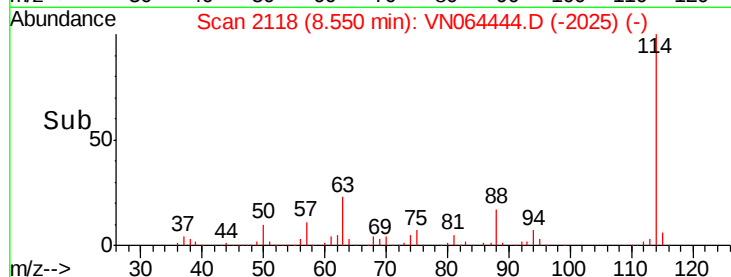
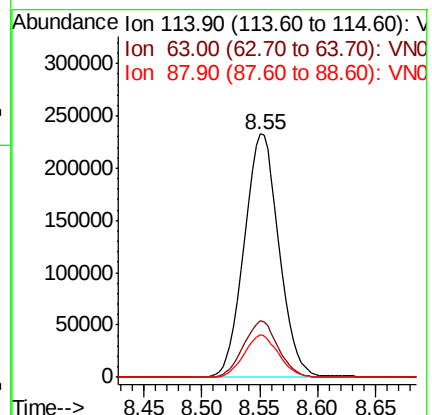
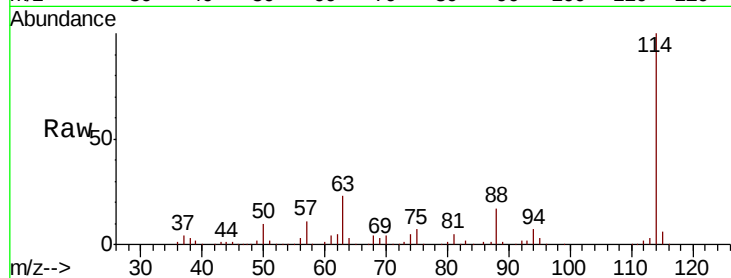




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064444.D
 Acq: 4 Nov 2020 18:26

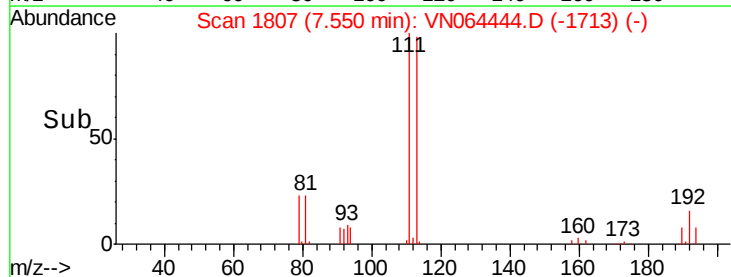
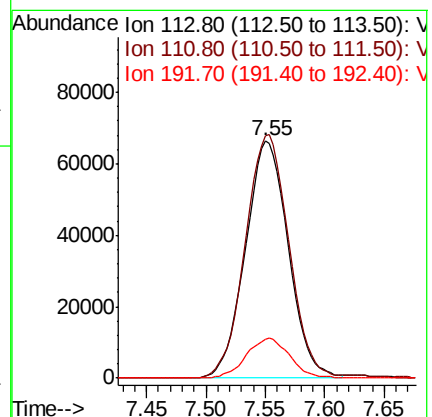
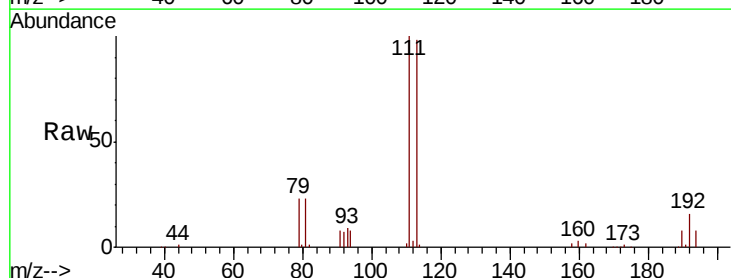
Instrument :
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 ClientSampleId :

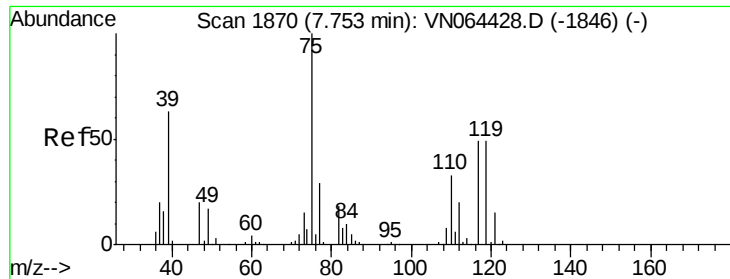
Tot Ion:114 Resp: 486288
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.6
 88 17.3 0.0 32.8



#35
 Dibromofluoromethane
 Concen: 50.218 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064444.D
 Acq: 4 Nov 2020 18:26

Tgt Ion:113 Resp: 166269
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.1 121.7
 192 16.9 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.647 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

ClientSampleId :

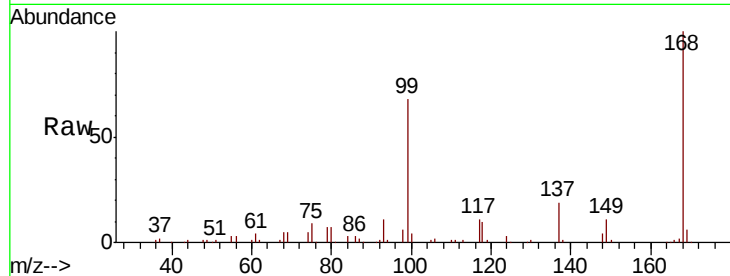
Tot Ion: 75 Resp: 23874

Ion Ratio Lower Upper

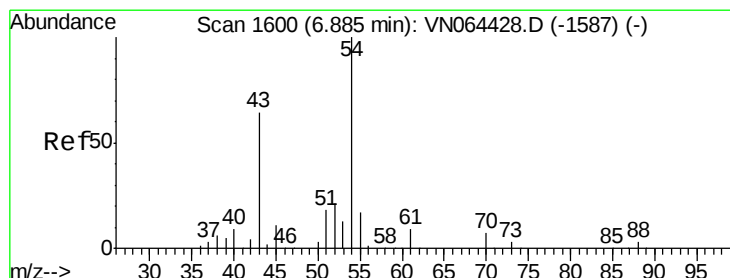
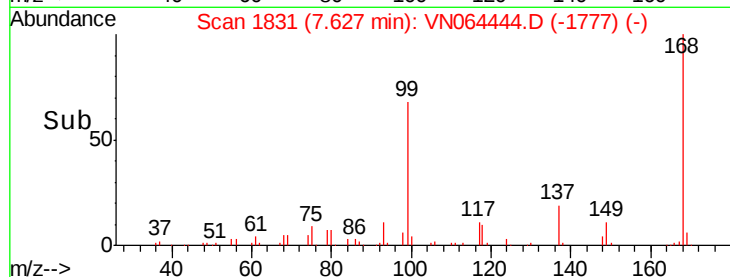
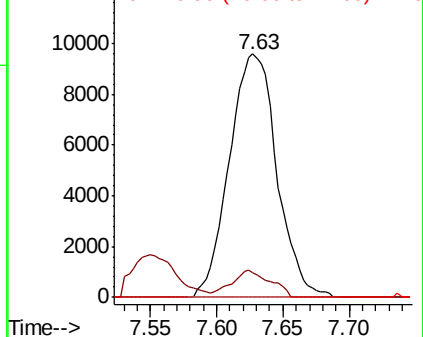
75 100

110 9.1 16.0 48.0#

77 0.0 24.0 36.0#



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



#37

Ethyl Acetate

Concen: 0.985 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. -0.09 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

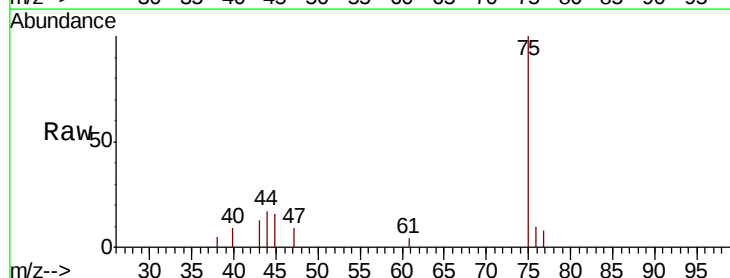
Tgt Ion: 43 Resp: 1181

Ion Ratio Lower Upper

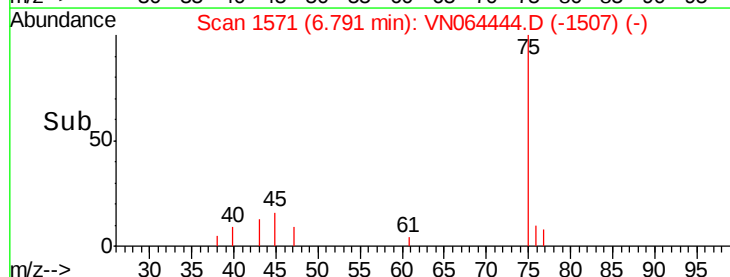
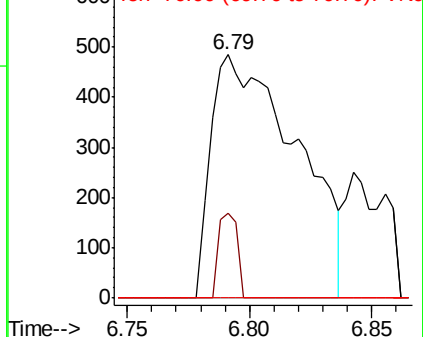
43 100

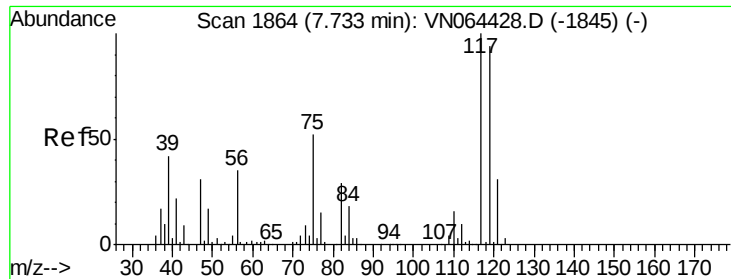
61 7.8 10.0 15.0#

70 0.0 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO





#38

Carbon Tetrachloride

Concen: 5.127 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

ClientSampleId :

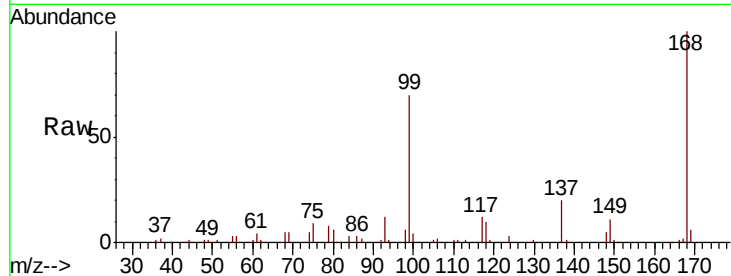
Tot Ion:117 Resp: 28149

Ion Ratio Lower Upper

117 100

119 6.8 75.5 113.3#

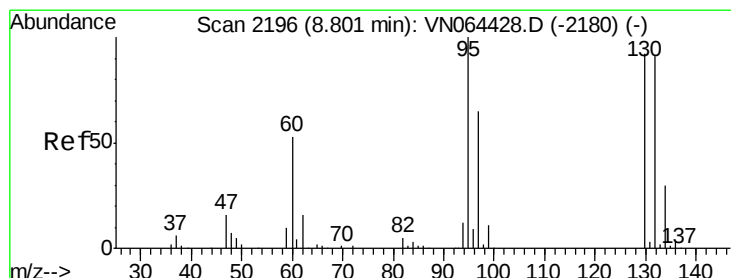
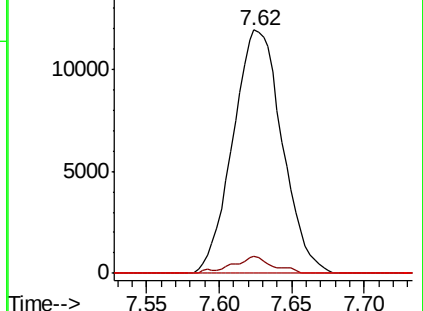
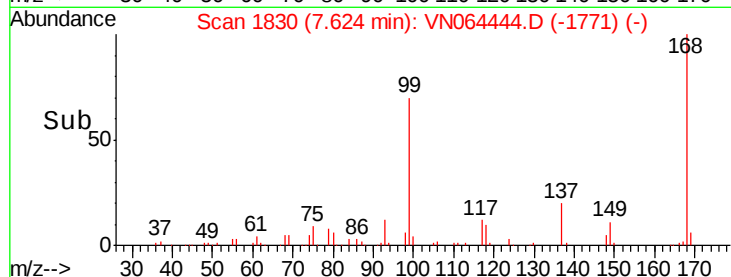
121 0.0 24.4 36.6#



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



#44

Trichloroethene

Concen: 0.581 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.00 min

Lab File: VN064444.D

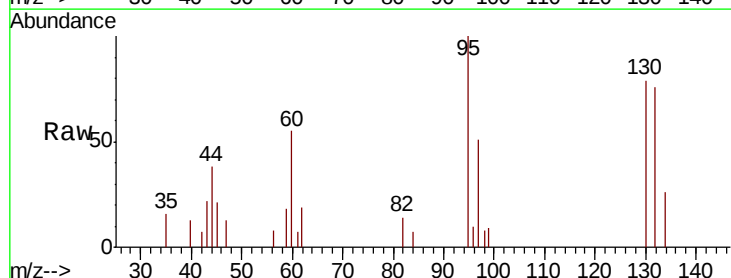
Acq: 4 Nov 2020 18:26

Tgt Ion:130 Resp: 2212

Ion Ratio Lower Upper

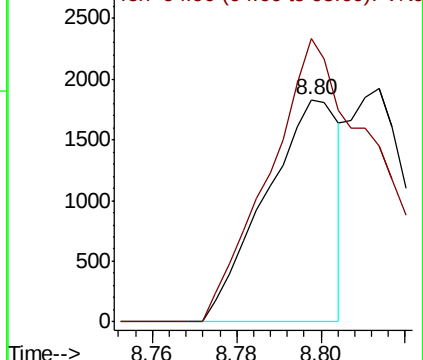
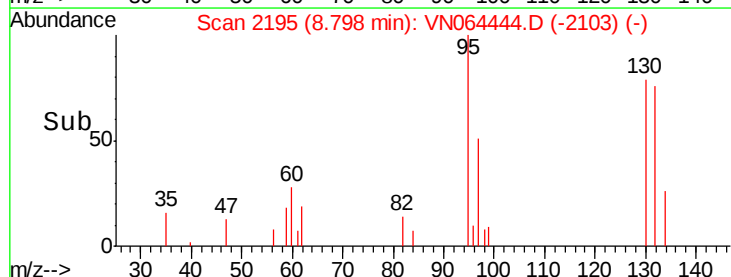
130 100

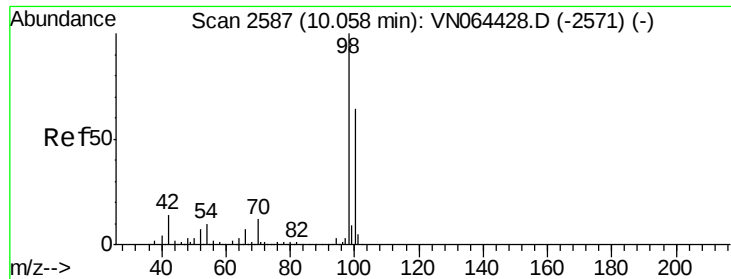
95 127.2 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 48.780 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

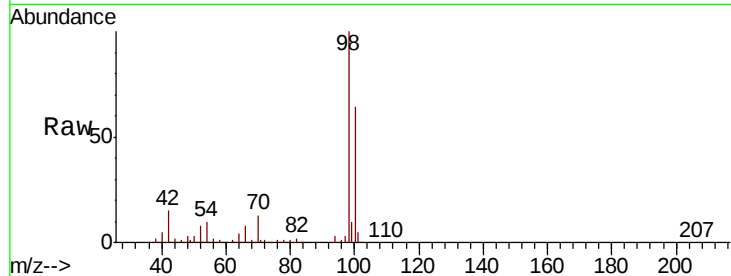
ClientSampleId :

Tot Ion: 98 Resp: 624232

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN064428.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064428.D (-2571) (-)

10.06

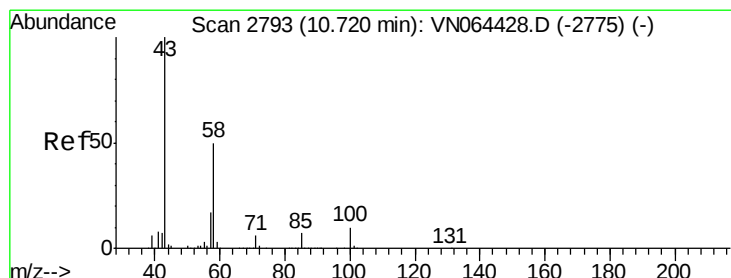
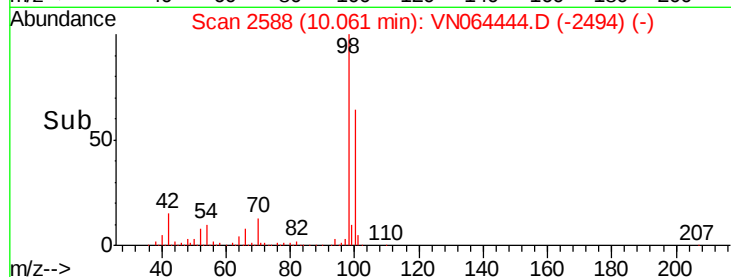
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 4.092 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064444.D

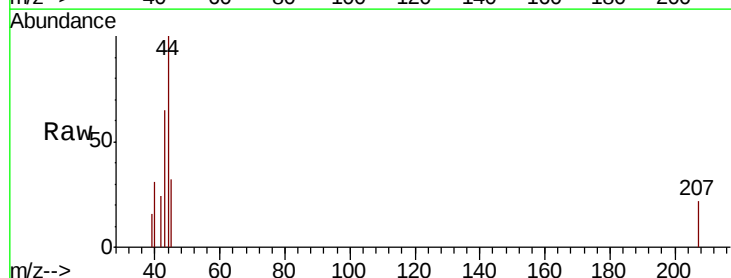
Acq: 4 Nov 2020 18:26

Tgt Ion: 43 Resp: 256

Ion Ratio Lower Upper

43 100

58 0.0 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-2775) (-)

Ion 58.00 (57.70 to 58.70): VN064428.D (-2775) (-)

10.74

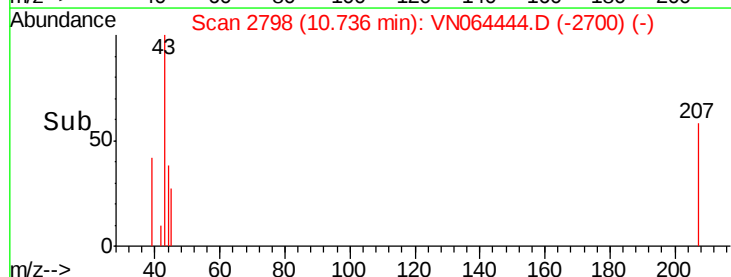
600

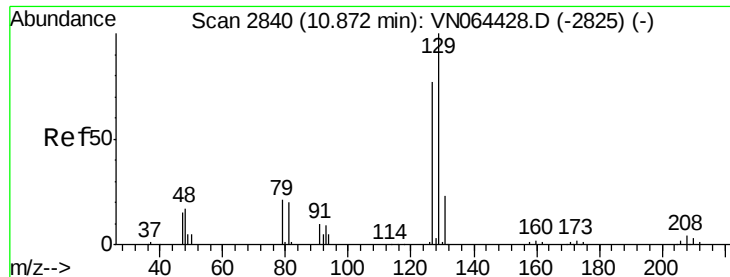
400

200

0

Time-->

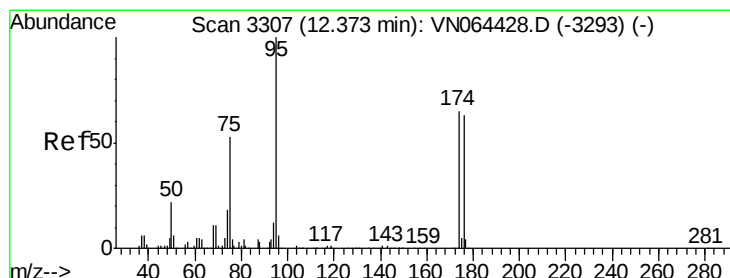
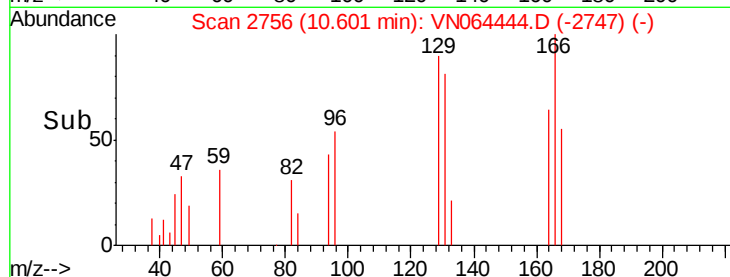
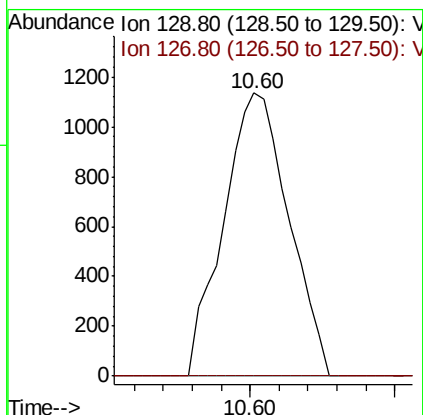
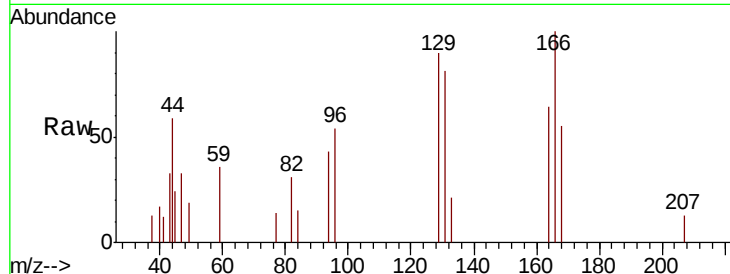




#60
Dibromochloromethane
Concen: 0.440 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

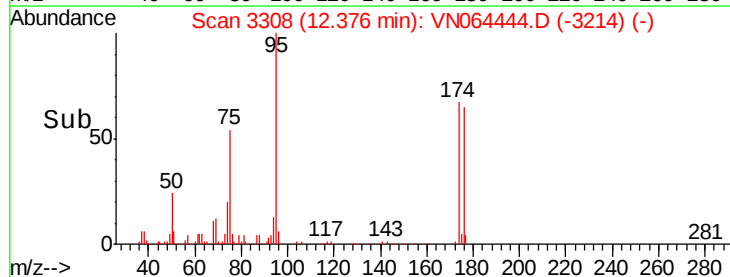
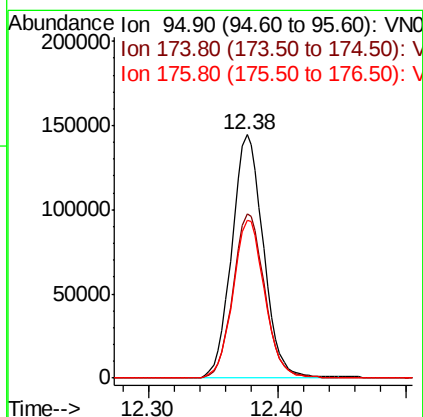
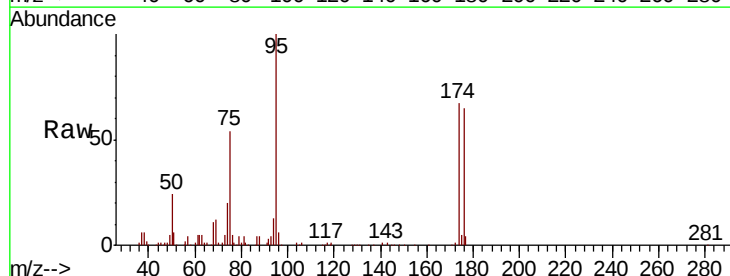
Instrument :
MSVOA_N
ClientSampled :

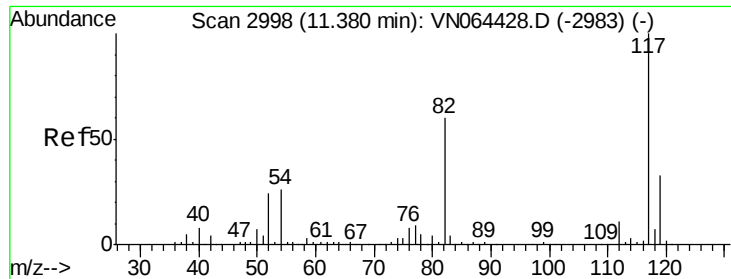
Tot Ion:129 Resp: 1769
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#



#62
4-Bromofluorobenzene
Concen: 50.750 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Tgt Ion: 95 Resp: 245610
Ion Ratio Lower Upper
95 100
174 67.8 0.0 132.6
176 65.4 0.0 129.2

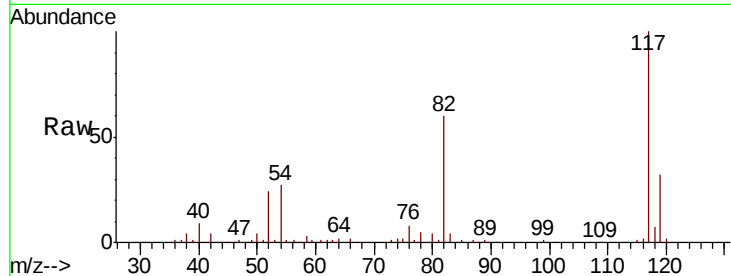




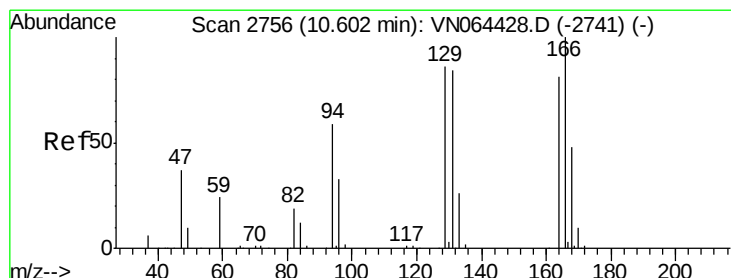
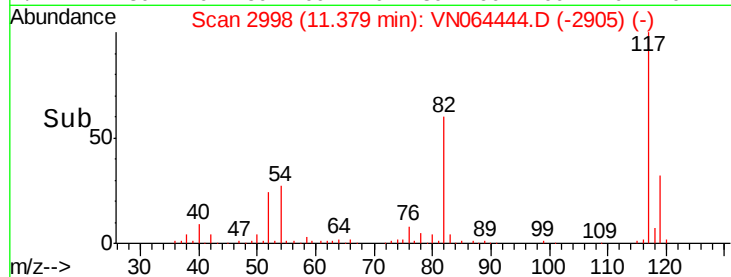
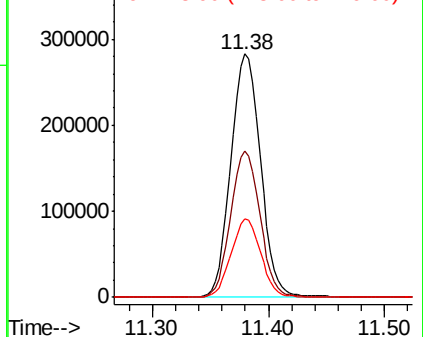
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 500794
Ion Ratio Lower Upper
117 100
82 60.2 48.1 72.1
119 32.5 26.2 39.4

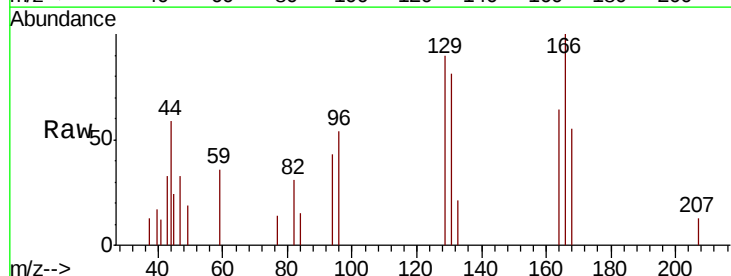


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

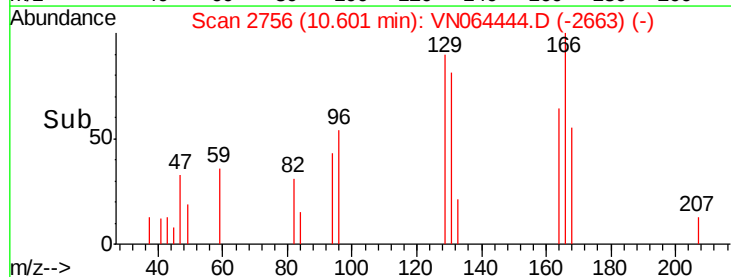
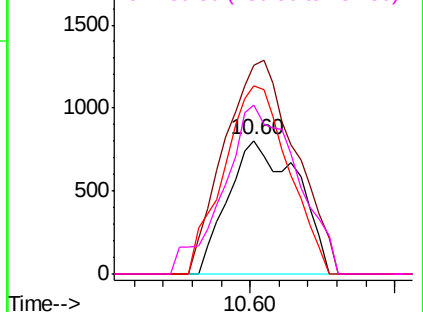


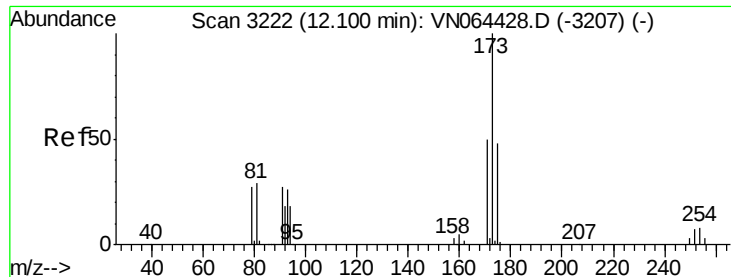
#64
Tetrachloroethene
Concen: 0.343 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Tgt Ion:164 Resp: 1323
Ion Ratio Lower Upper
164 100
166 155.9 98.2 147.2#
129 141.0 84.6 127.0#
131 126.2 82.2 123.2#



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





#71

Bromoform

Concen: 1.344 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

ClientSampled :

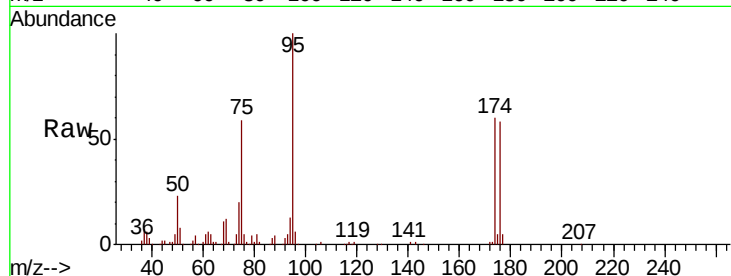
Tot Ion:173 Resp: 216

Ion Ratio Lower Upper

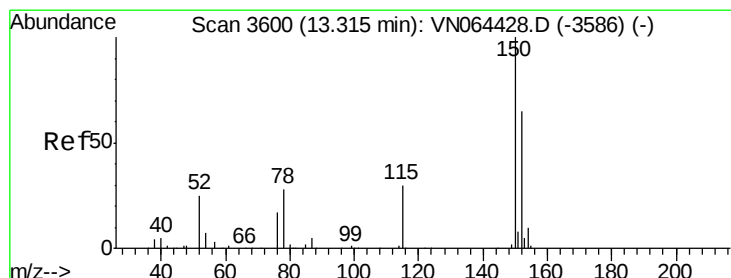
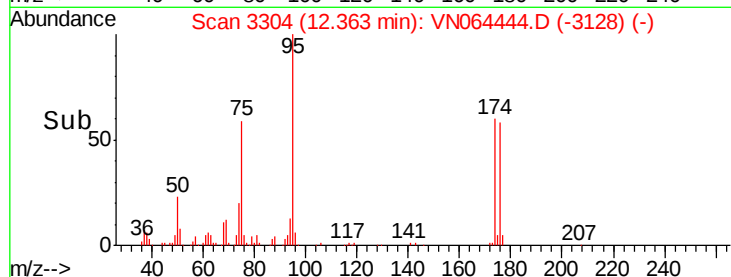
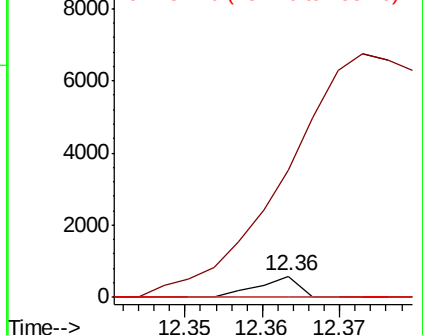
173 100

175 4595.8 23.7 71.1#

254 0.0 0.0 0.0



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: VN064444.D

Acq: 4 Nov 2020 18:26

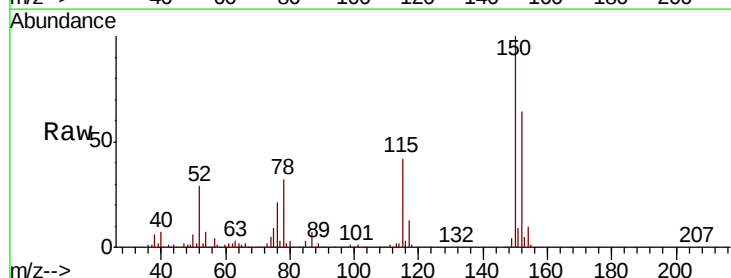
Tgt Ion:152 Resp: 186854

Ion Ratio Lower Upper

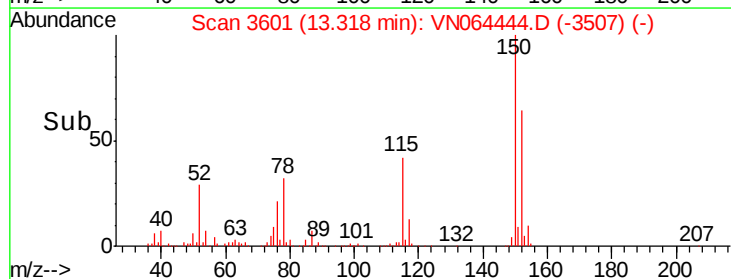
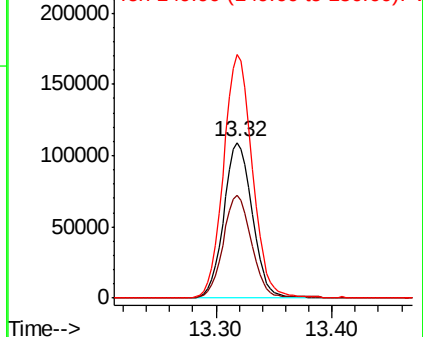
152 100

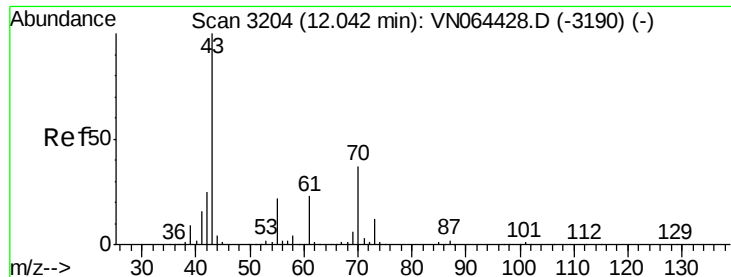
115 65.6 32.0 96.0

150 158.1 0.0 353.8



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





#74

N-amvl acetate

Concen: 1.220 ug/l

RT: 12.06 min Scan# 3209

Delta R.T. 0.02 min

Lab File: VN064444.D

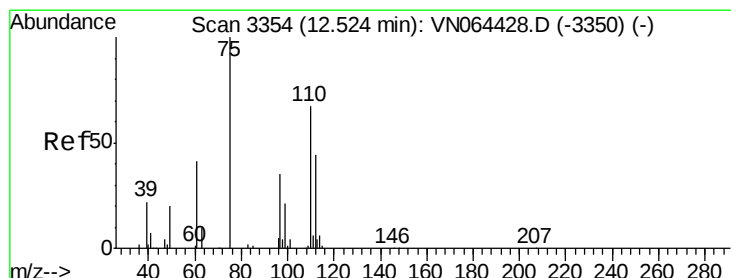
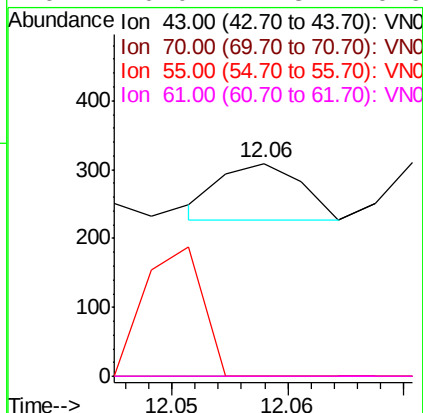
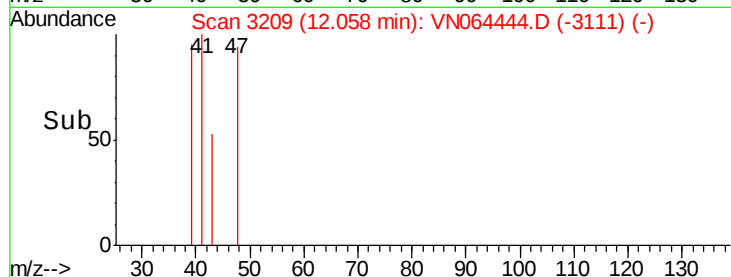
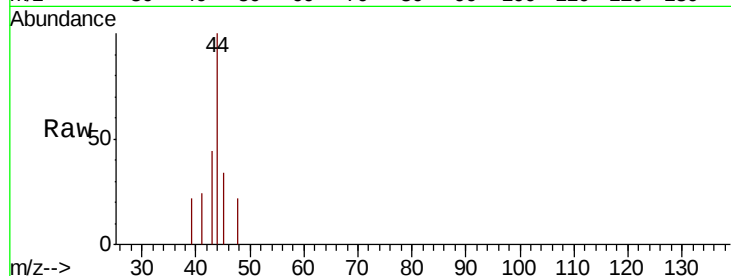
Acq: 4 Nov 2020 18:26

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	40
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.6	44.4#
55	165.0	18.4	27.6#
61	0.0	17.8	26.6#



#76

1,2,3-Trichloropropane

Concen: 30.386 ug/l

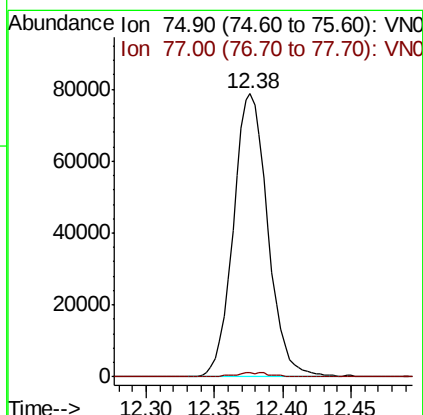
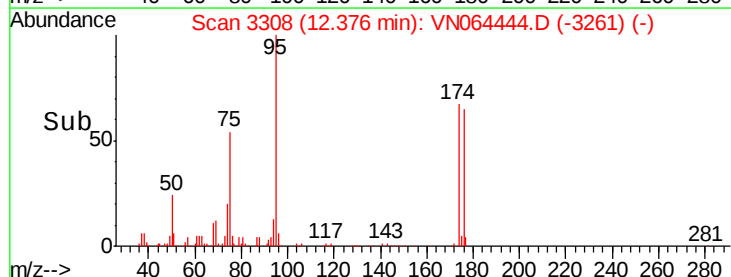
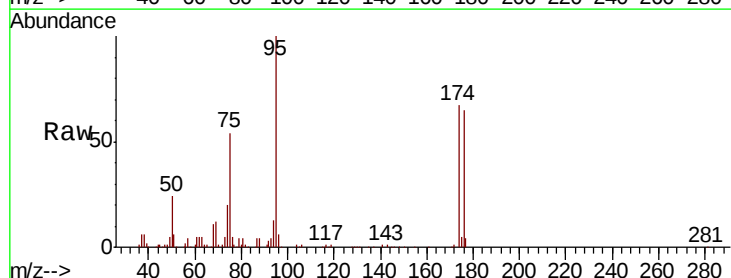
RT: 12.38 min Scan# 3308

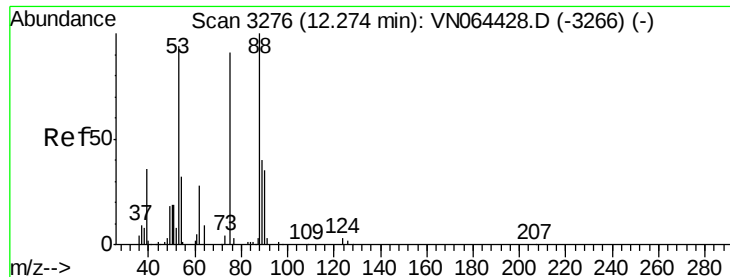
Delta R.T. -0.15 min

Lab File: VN064444.D

Acq: 4 Nov 2020 18:26

Tgt Ion:	75	Resp:	137568
Ion	Ratio	Lower	Upper
75	100		
77	1.5	0.0	0.0#

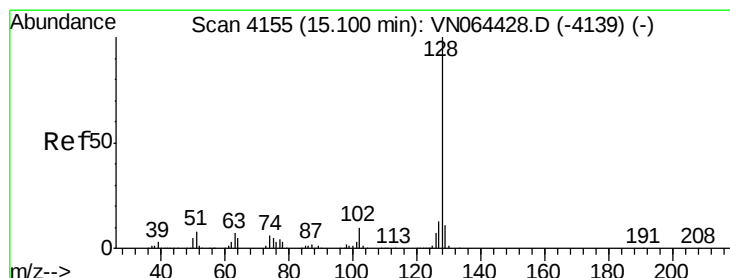
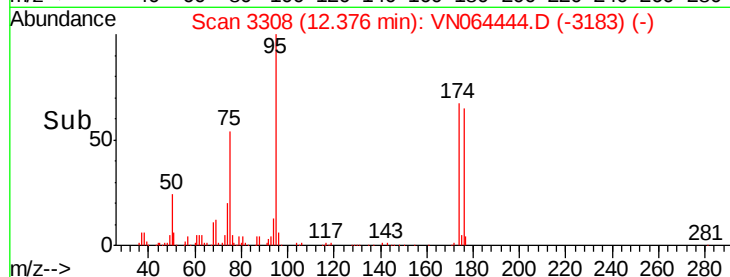
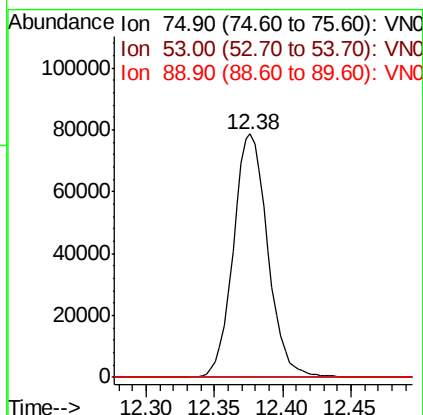
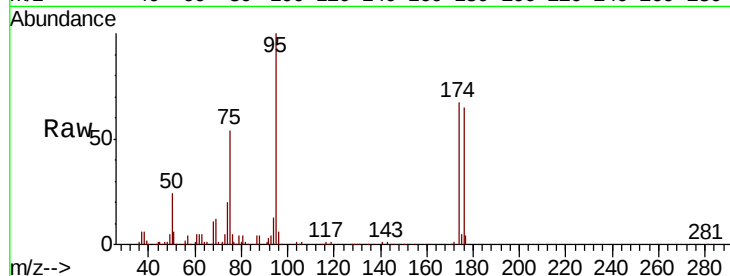




#81
trans-1,4-Dichloro-2-butene
Concen: 84.842 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 137568
Ion Ratio Lower Upper
75 100
53 0.0 84.0 126.0#
89 0.0 36.3 54.5#



#95
Naphthalene
Concen: 3.626 ug/l
RT: 15.12 min Scan# 4160
Delta R.T. 0.02 min
Lab File: VN064444.D
Acq: 4 Nov 2020 18:26

Tgt Ion: 128 Resp: 30
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.8 13.2#

