

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063903.D
 Acq On : 6 Oct 2020 19:07
 Operator : JC/MD
 Sample : L4211-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1

Quant Time: Oct 07 04:14:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 16:42:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	49105	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	259965	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	234678	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	132889	30.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.43%
60) 4-Bromofluorobenzene	12.38	95	104966	26.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.17%
63) Toluene-d8	10.06	98	313636	29.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.30%

Target Compounds

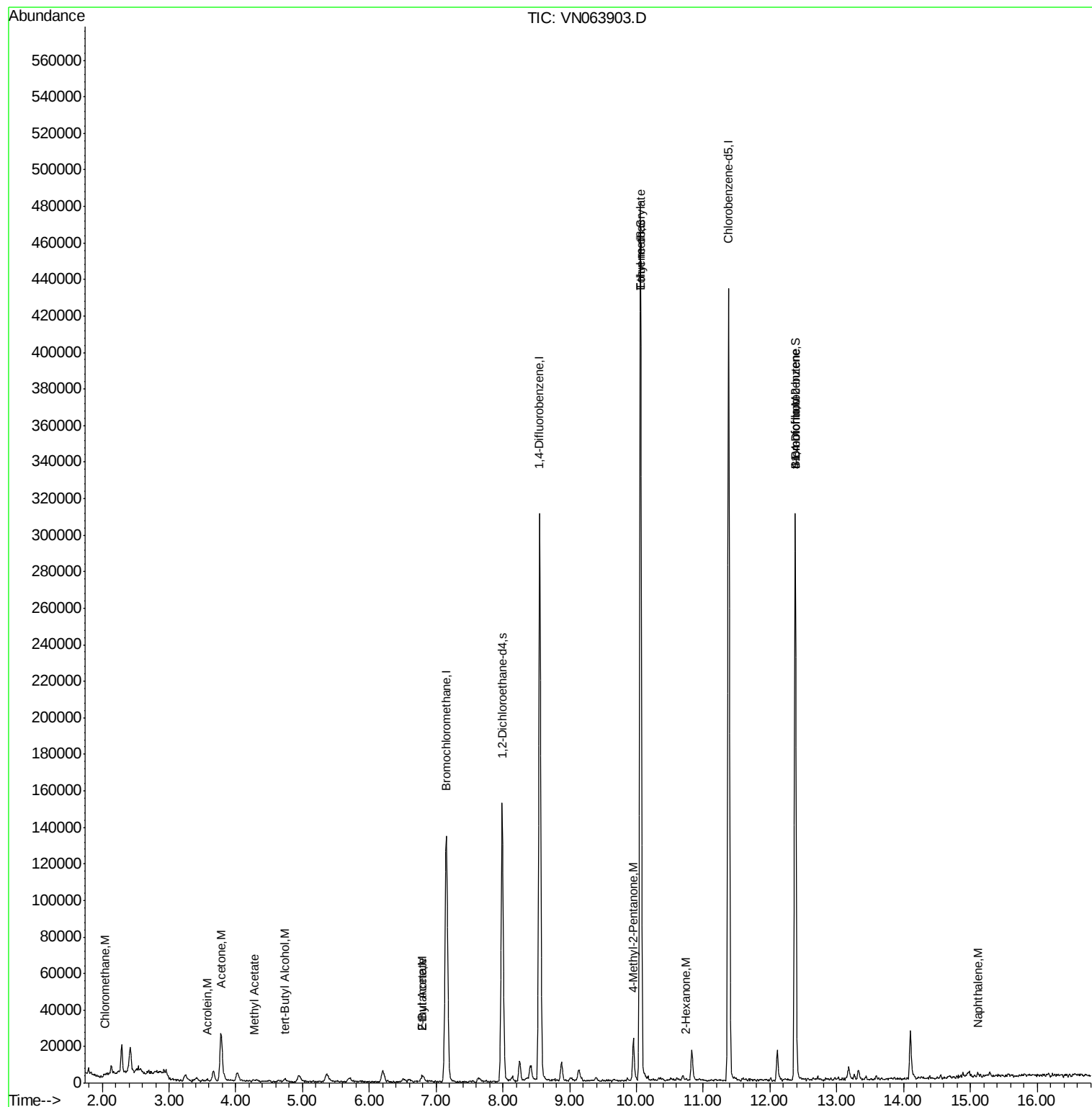
					Ovalue	
3) Chloromethane	2.03	50	1097	0.319	ug/l #	57
12) Methyl Acetate	4.29	43	678	0.209	ug/l #	52
13) Acrolein	3.59	56	334	1.058	ug/l	93
15) Acetone	3.78	58	7312	18.945	ug/l #	44
23) tert-Butyl Alcohol	4.74	59	678	1.185	ug/l #	100
30) 2-Butanone	6.79	43	2102	0.941	ug/l #	60
43) Ethyl Acetate	6.79	43	2102	0.440	ug/l	97
51) Ethyl methacrylate	10.07	69	1186	0.249	ug/l	81
56) Bromoform	12.38	173	1074	0.411	ug/l #	1
58) 4-Methyl-2-Pentanone	9.96	43	16971	3.726	ug/l	92
59) 2-Hexanone	10.73	43	690	0.203	ug/l #	44
77) t-1,4-Dichloro-2-butene	12.38	75	59114	37.005	ug/l #	12
91) Naphthalene	15.11	128	2478	0.259	ug/l #	79

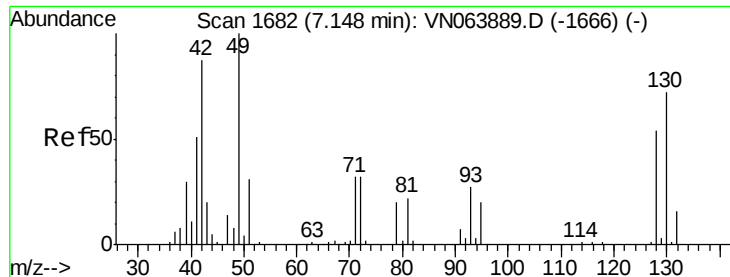
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100620\
Data File : VN063903.D
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Quant Time: Oct 07 04:14:13 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 06 16:42:38 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

OF-1

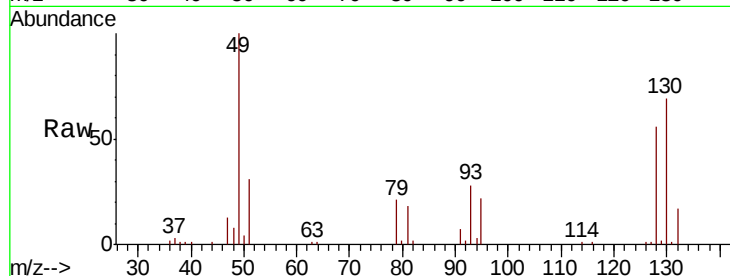
Tot Ion:128 Resp: 49105

Ion Ratio Lower Upper

128 100

49 180.7 0.0 437.5

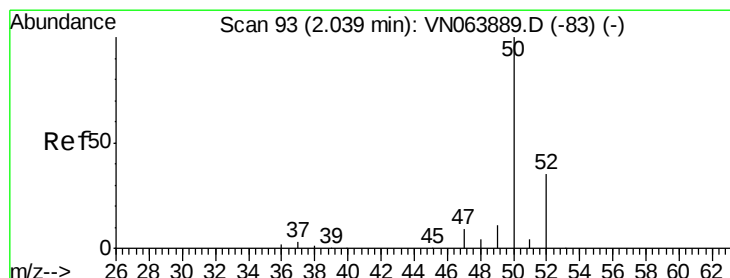
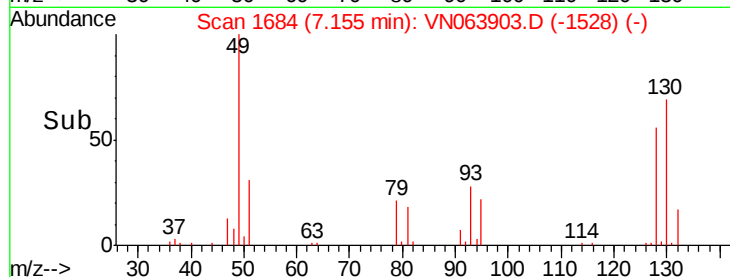
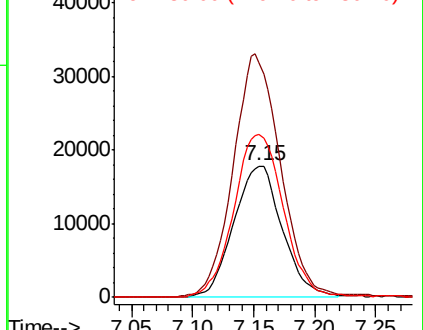
130 127.3 0.0 327.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.319 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063903.D

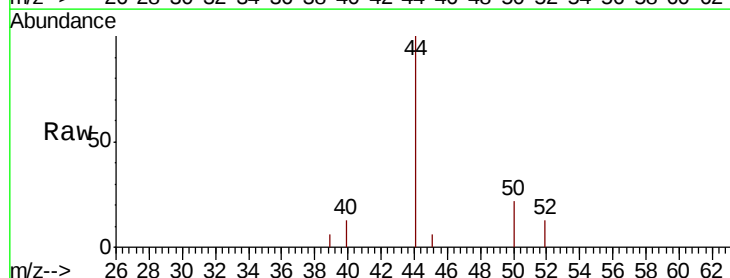
Acq: 6 Oct 2020 19:07

Tgt Ion: 50 Resp: 1097

Ion Ratio Lower Upper

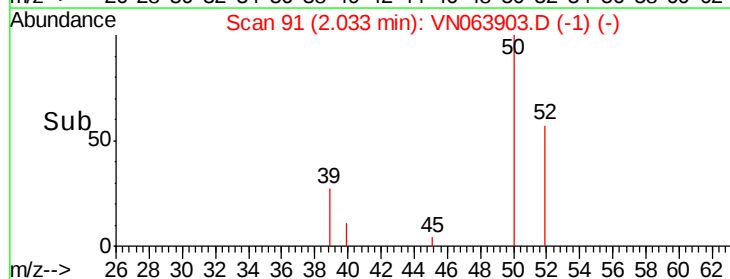
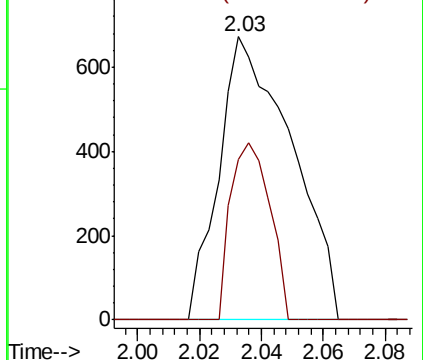
50 100

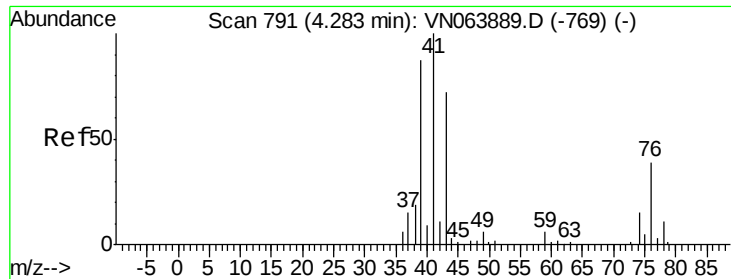
52 56.5 26.0 39.0#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

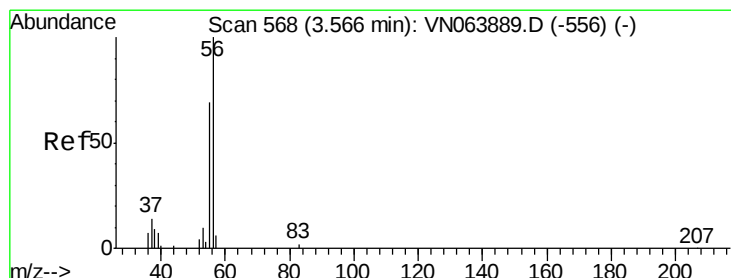
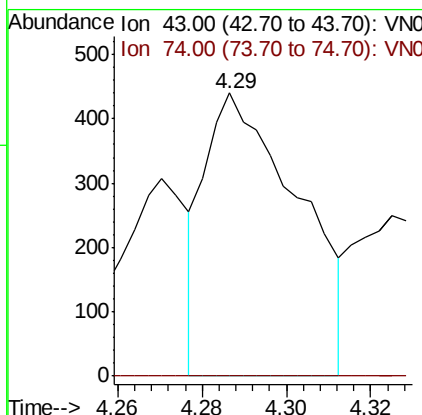
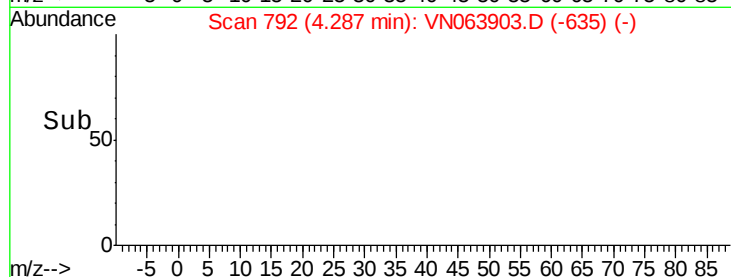
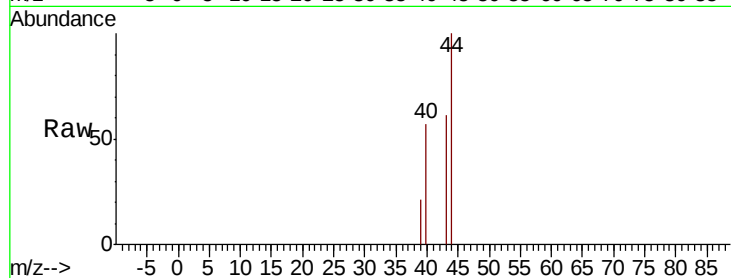




#12
Methyl Acetate
Concen: 0.209 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

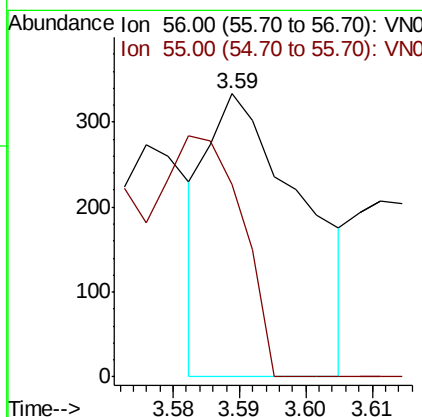
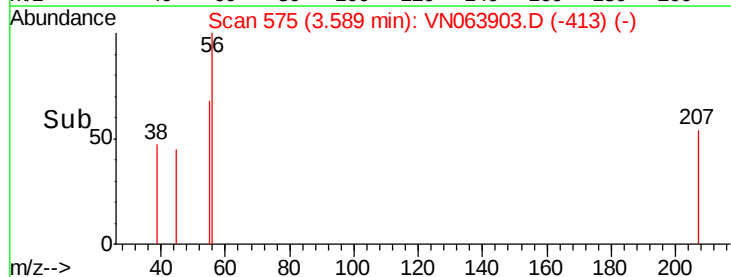
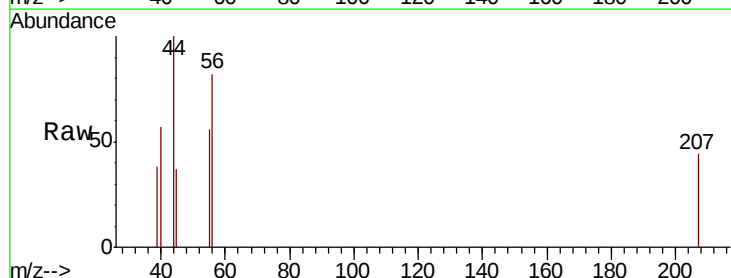
Instrument :
MSVOA_N
ClientSampled :
OF-1

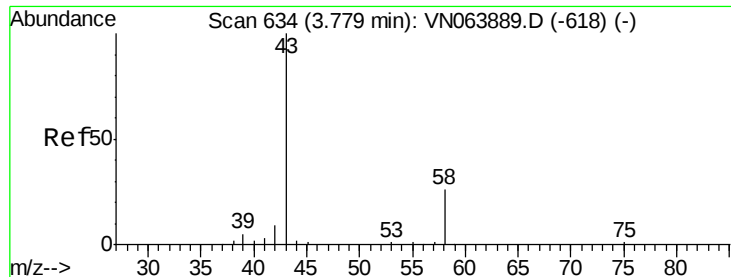
Tot Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



#13
Acrolein
Concen: 1.058 ug/l
RT: 3.59 min Scan# 575
Delta R.T. 0.02 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

Tgt Ion: 56 Resp: 334
Ion Ratio Lower Upper
56 100
55 67.7 58.7 88.1





#15

Acetone

Concen: 18.945 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

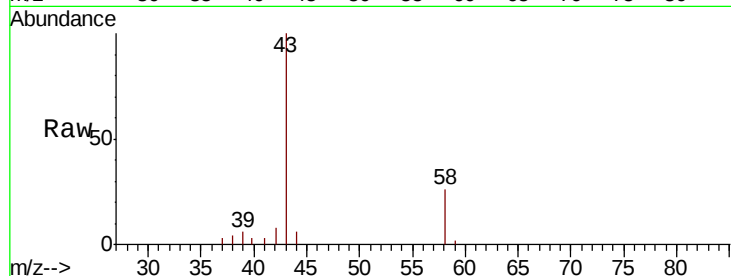
OF-1

Tot Ion: 58 Resp: 7312

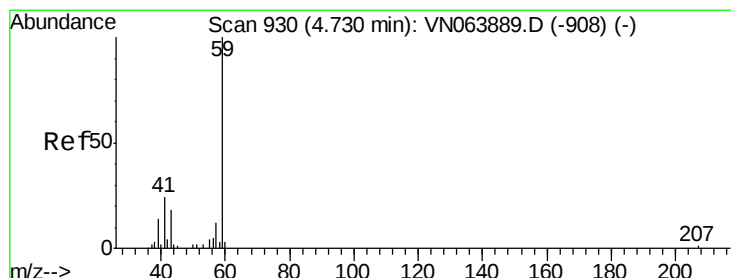
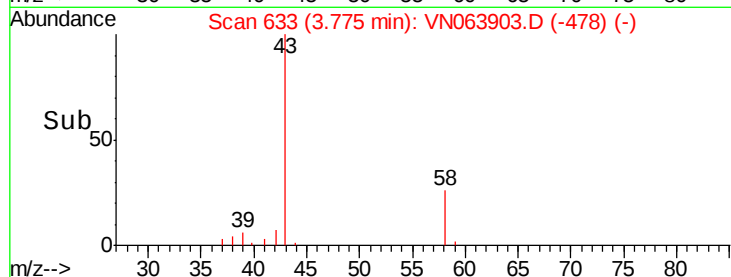
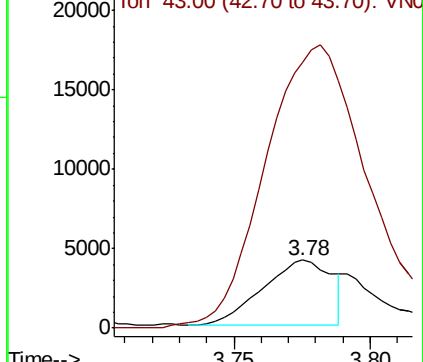
Ion Ratio Lower Upper

58 100

43 399.3 233.2 349.8#



Abundance Ion 58.00 (57.70 to 58.70): VN063903.D (-478) (-)



#23

tert-Butyl Alcohol

Concen: 1.185 ug/l

RT: 4.74 min Scan# 932

Delta R.T. -0.00 min

Lab File: VN063903.D

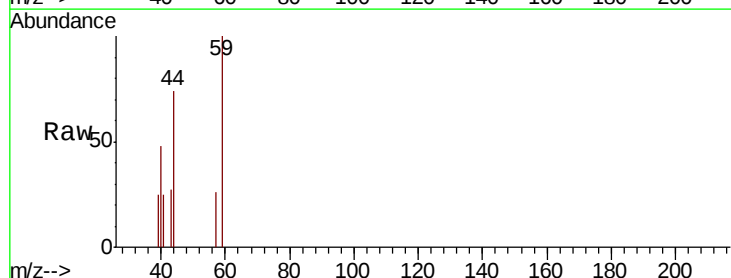
Acq: 6 Oct 2020 19:07

Tgt Ion: 59 Resp: 678

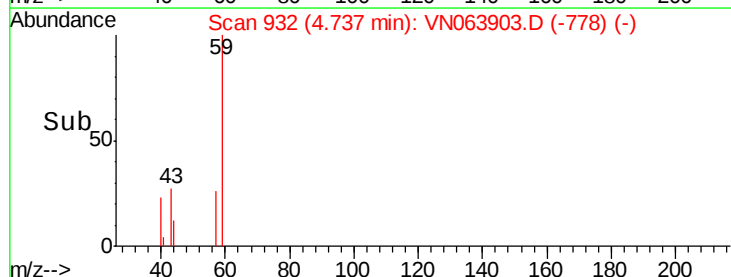
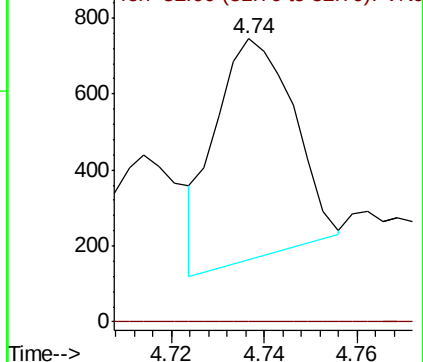
Ion Ratio Lower Upper

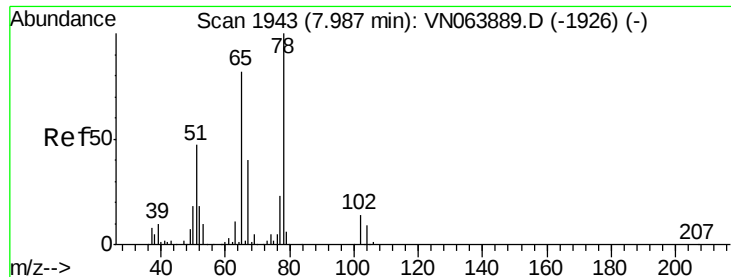
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN063903.D (-778) (-)





#27

1,2-Dichloroethane-d4

Concen: 30.133 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

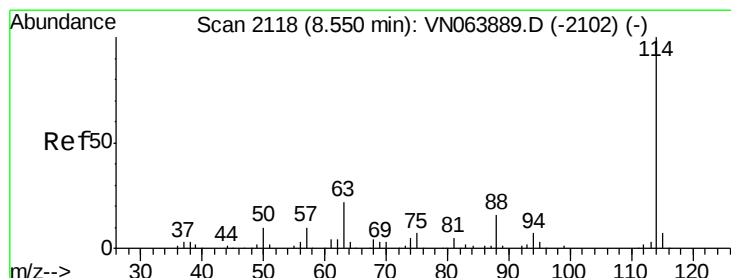
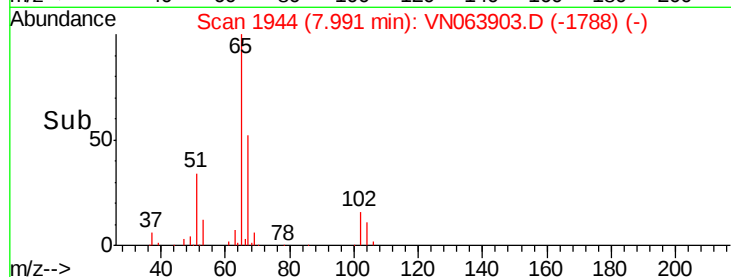
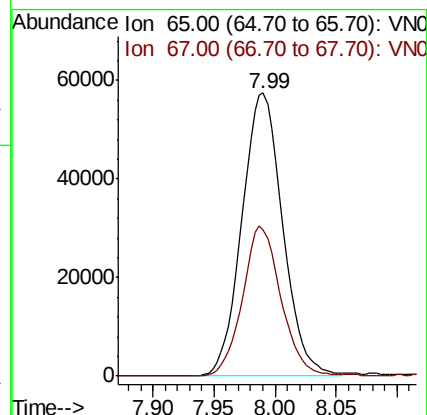
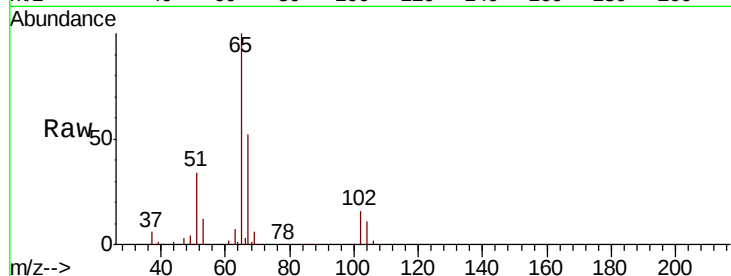
OF-1

Tot Ion: 65 Resp: 132889

Ion Ratio Lower Upper

65 100

67 49.9 43.8 65.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

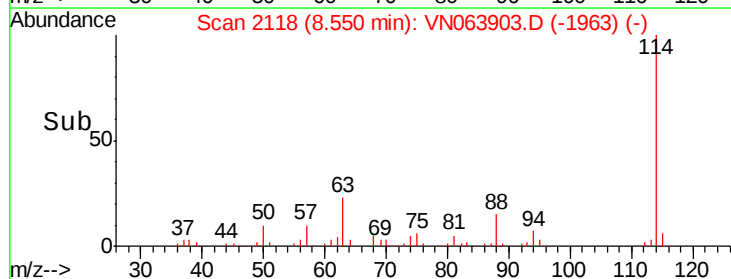
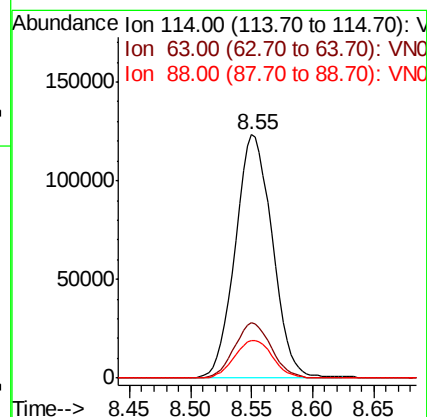
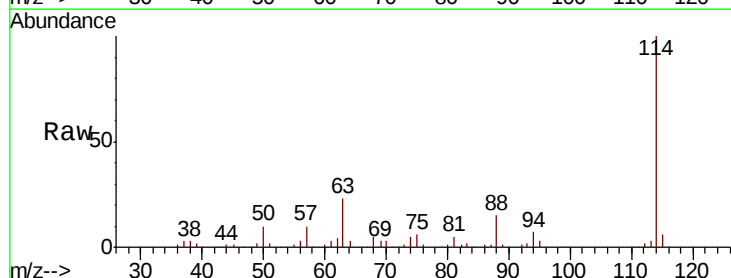
Tgt Ion: 114 Resp: 259965

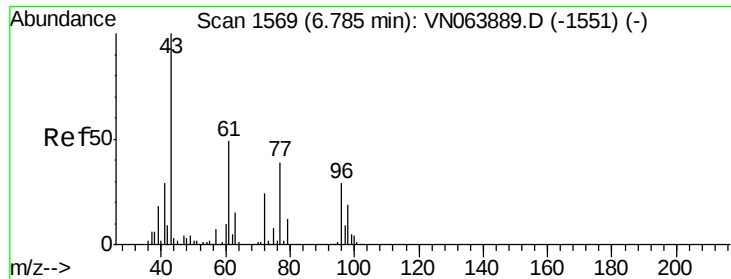
Ion Ratio Lower Upper

114 100

63 22.6 17.0 25.6

88 15.9 12.6 18.8

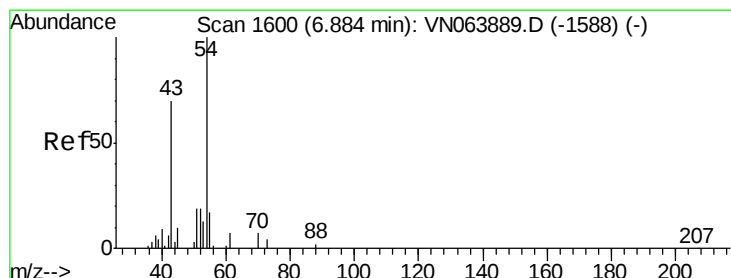
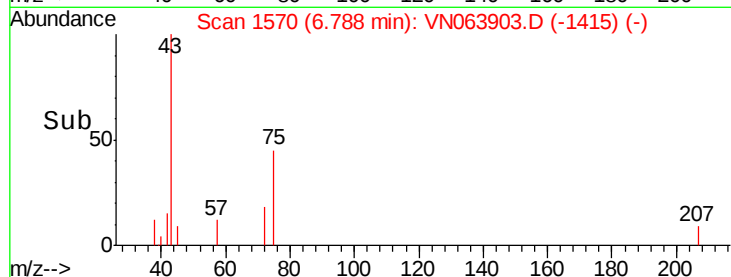
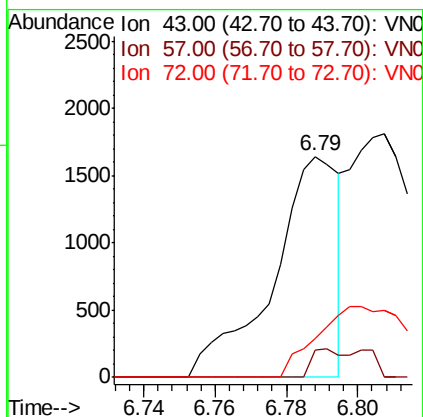
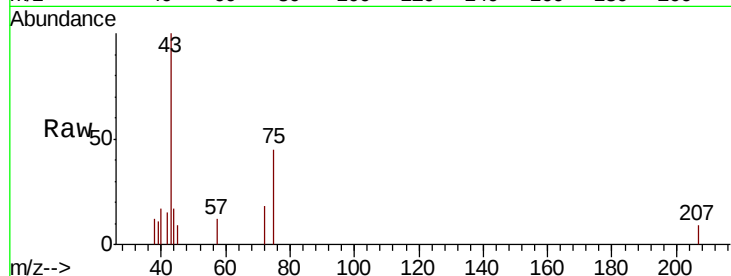




#30
2-Butanone
Concen: 0.941 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

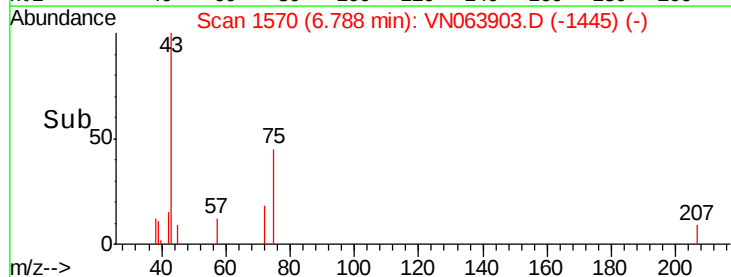
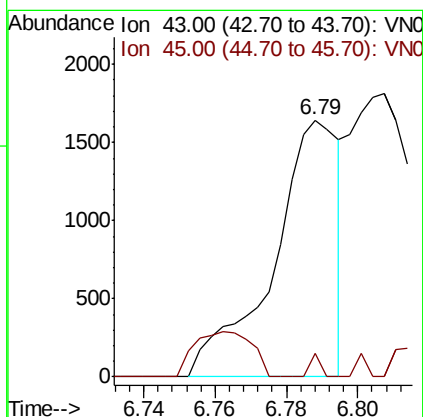
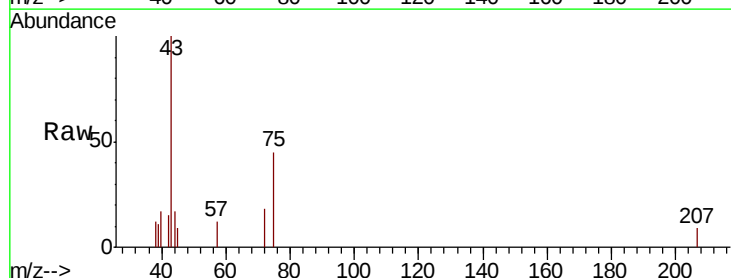
Instrument :
MSVOA_N
ClientSampleId :
OF-1

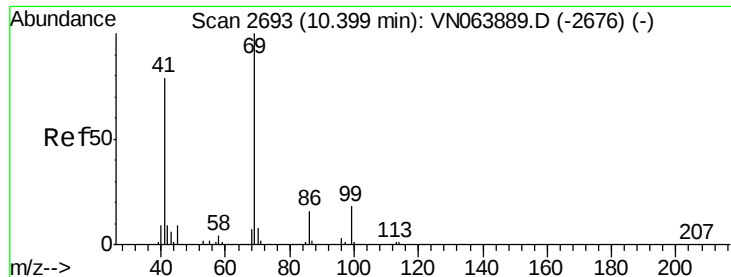
Tot Ion: 43 Resp: 2102
Ion Ratio Lower Upper
43 100
57 6.9 6.6 9.8
72 0.0 21.3 31.9#



#43
Ethyl Acetate
Concen: 0.440 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. -0.10 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

Tgt Ion: 43 Resp: 2102
Ion Ratio Lower Upper
43 100
45 15.4 11.3 16.9





#51

Ethyl methacrylate

Concen: 0.249 ug/l

RT: 10.07 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

OF-1

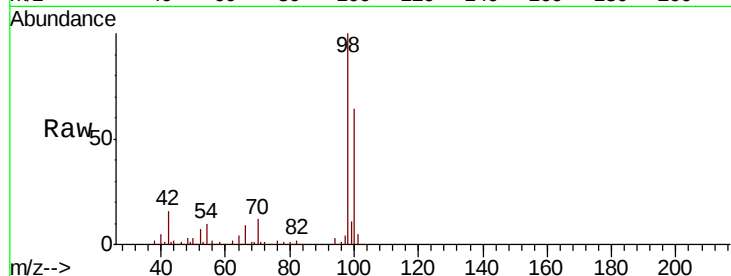
Tot Ion: 69 Resp: 1186

Ion Ratio Lower Upper

69 100

41 49.4 32.1 96.5

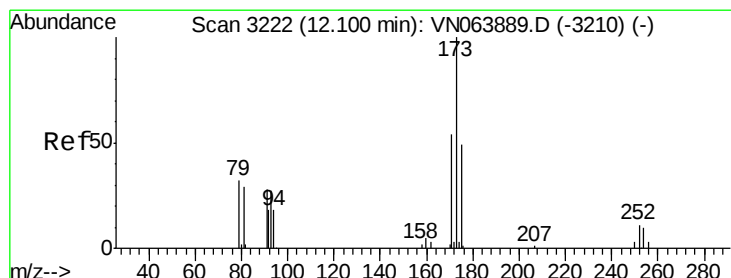
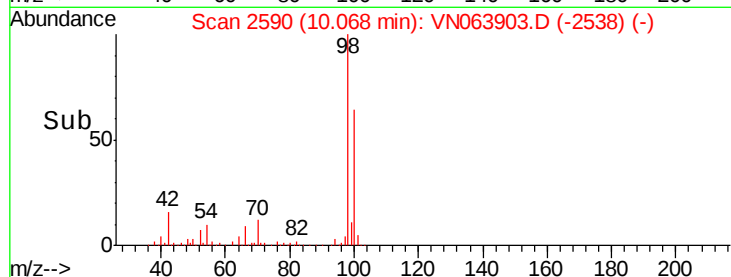
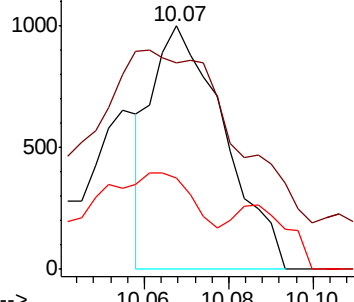
39 21.0 16.1 48.3



Abundance Ion 69.00 (68.70 to 69.70): VN063889.D (-2676) (-)

Ion 41.00 (40.70 to 41.70): VN063889.D (-2676) (-)

Ion 39.00 (38.70 to 39.70): VN063889.D (-2676) (-)



#56

Bromoform

Concen: 0.411 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

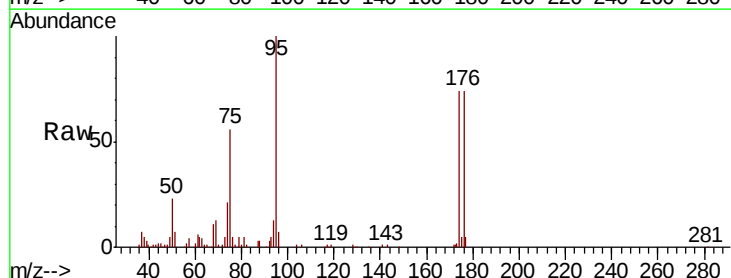
Tgt Ion: 173 Resp: 1074

Ion Ratio Lower Upper

173 100

175 567.6 41.2 61.8#

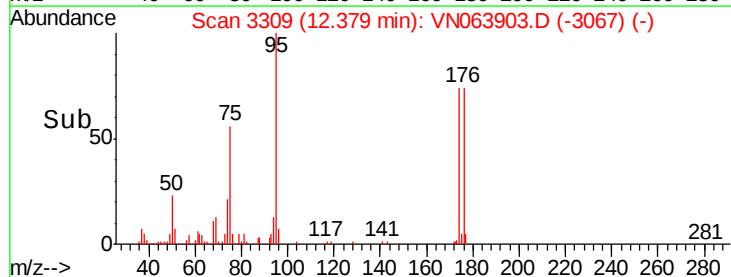
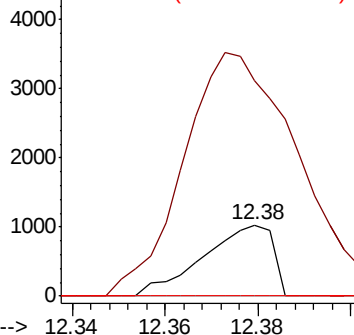
254 0.0 9.0 13.4#

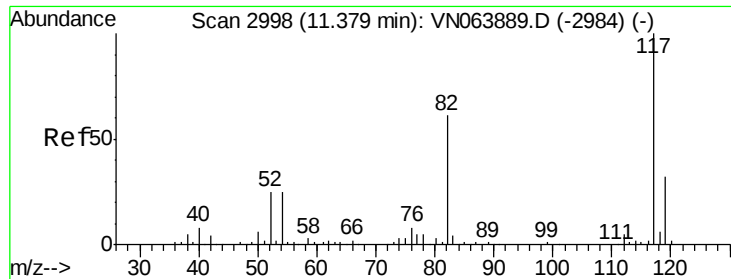


Abundance Ion 173.00 (172.70 to 173.70): VN063889.D (-3210) (-)

Ion 175.00 (174.70 to 175.70): VN063889.D (-3210) (-)

Ion 254.00 (253.70 to 254.70): VN063889.D (-3210) (-)

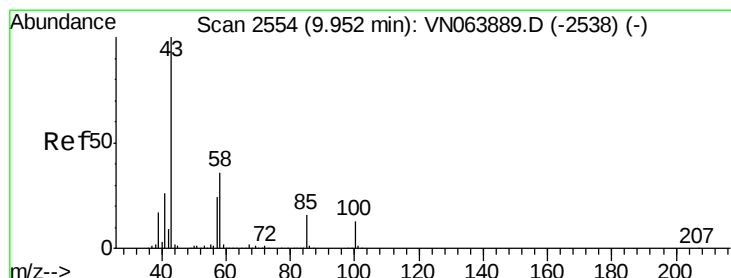
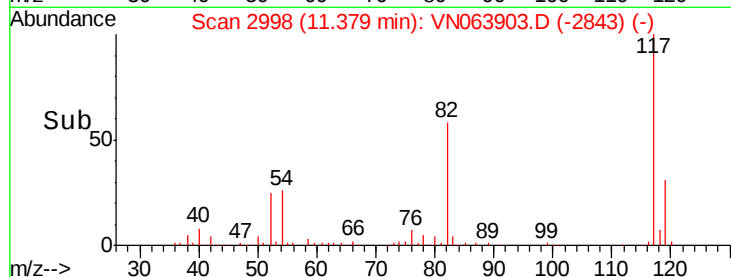
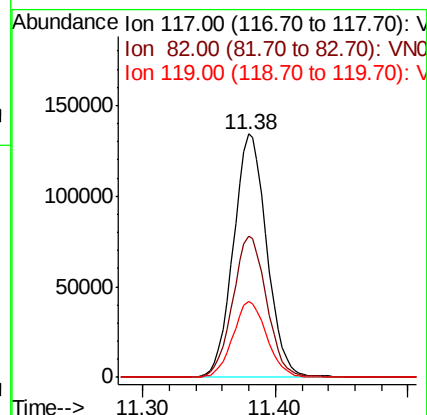
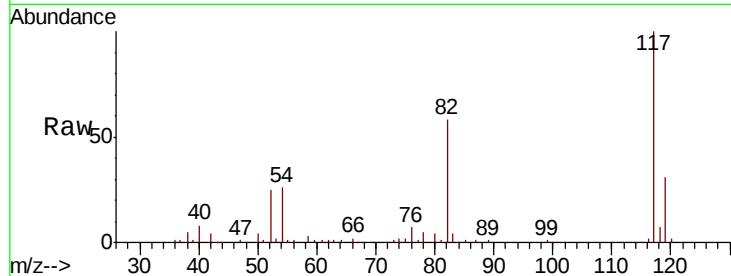




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

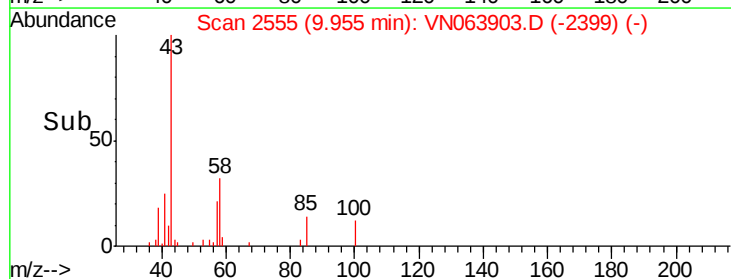
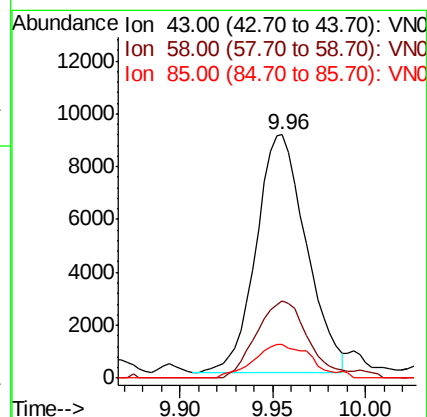
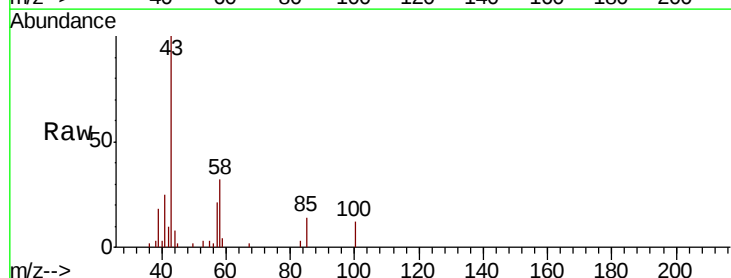
Instrument :
MSVOA_N
ClientSampled :
OF-1

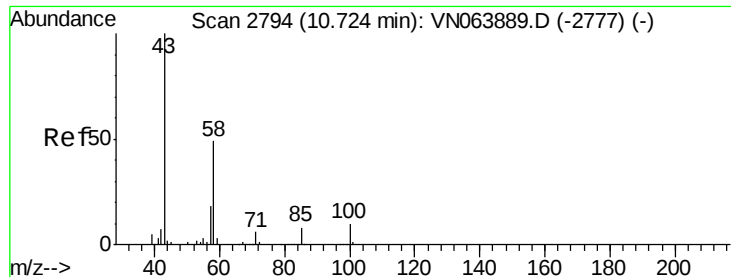
Tot Ion:117 Resp: 234678
Ion Ratio Lower Upper
117 100
82 59.1 44.9 67.3
119 31.6 26.0 39.0



#58
4-Methyl-2-Pentanone
Concen: 3.726 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

Tgt Ion: 43 Resp: 16971
Ion Ratio Lower Upper
43 100
58 33.2 31.4 47.0
85 15.8 13.4 20.2

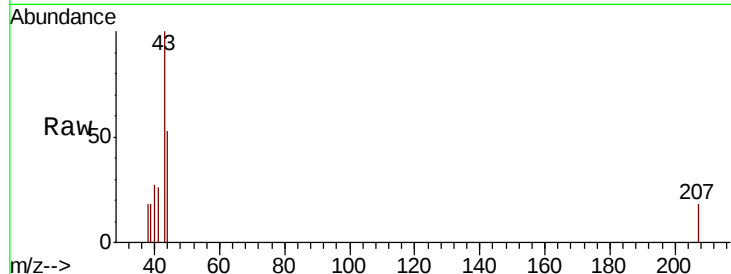




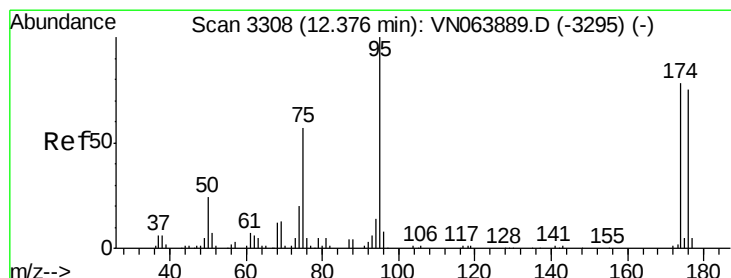
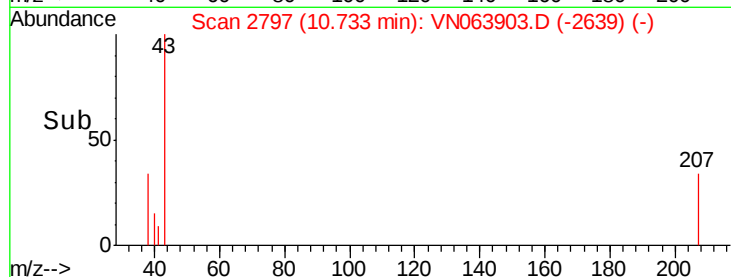
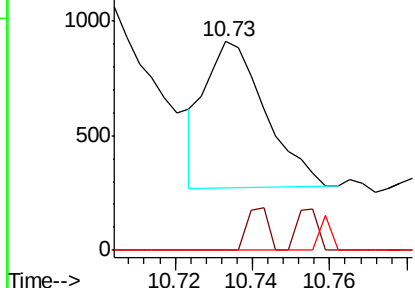
#59
2-Hexanone
Concen: 0.203 ug/l
RT: 10.73 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

Instrument :
MSVOA_N
ClientSampled :
OF-1

Tot Ion: 43 Resp: 690
Ion Ratio Lower Upper
43 100
58 10.1 42.6 64.0#
57 0.0 14.6 21.8#

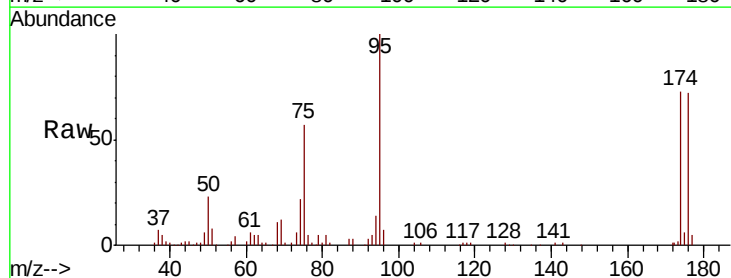


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

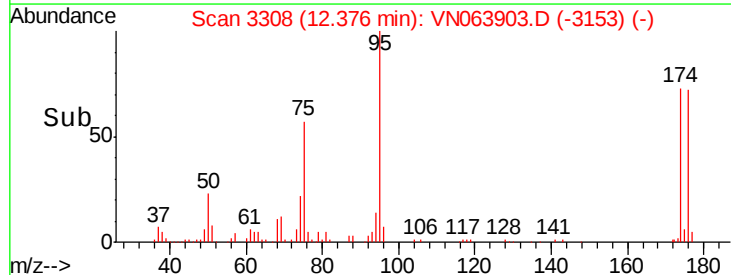
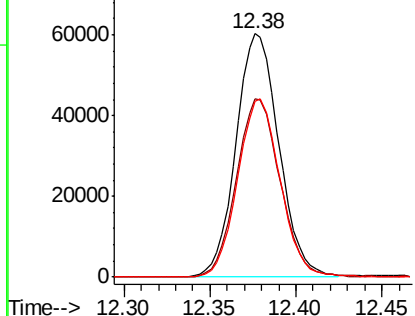


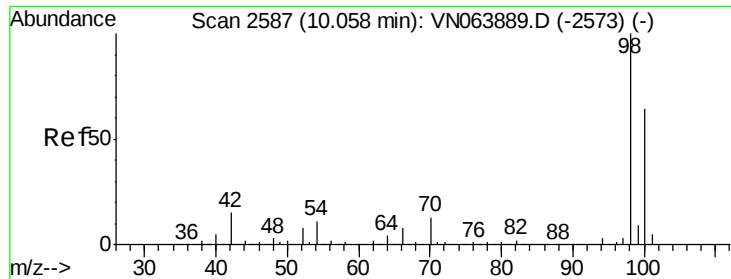
#60
4-Bromofluorobenzene
Concen: 26.155 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

Tgt Ion: 95 Resp: 104966
Ion Ratio Lower Upper
95 100
174 74.4 70.1 105.1
176 72.6 66.8 100.2



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

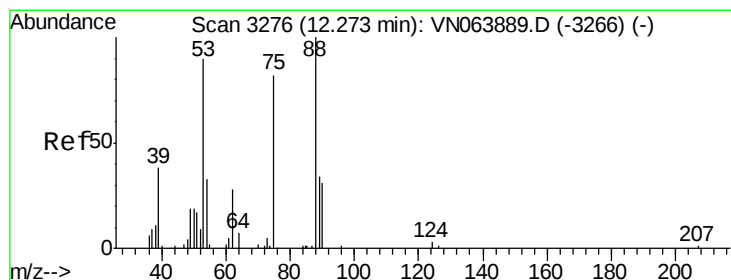
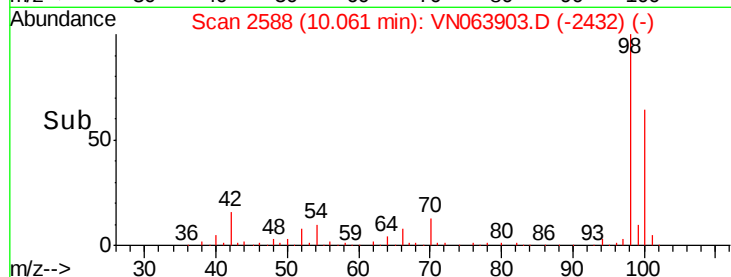
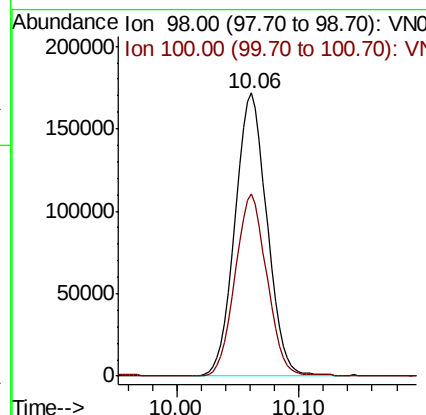
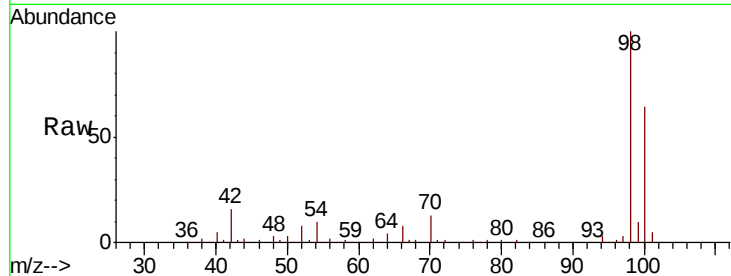




#63
Toluene-d8
Concen: 29.490 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

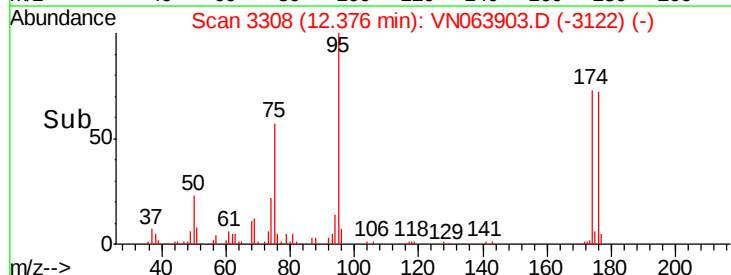
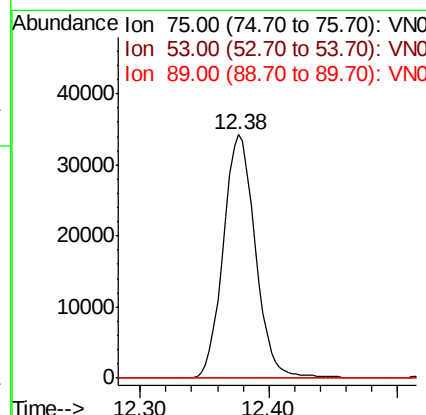
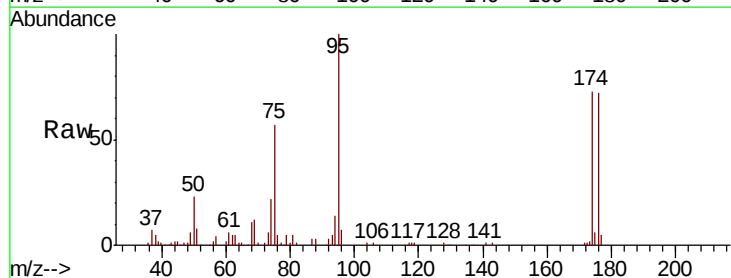
Instrument :
MSVOA_N
ClientSampled :
OF-1

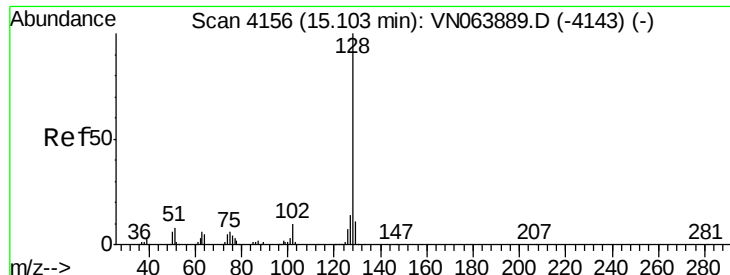
Tot Ion: 98 Resp: 313636
Ion Ratio Lower Upper
98 100
100 63.6 51.4 77.2



#77
t-1,4-Dichloro-2-butene
Concen: 37.005 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063903.D
Acq: 6 Oct 2020 19:07

Tgt Ion: 75 Resp: 59114
Ion Ratio Lower Upper
75 100
53 0.0 47.0 141.0#
89 0.0 22.9 68.7#





#91

Naphthalene

Concen: 0.259 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063903.D

Acq: 6 Oct 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

OF-1

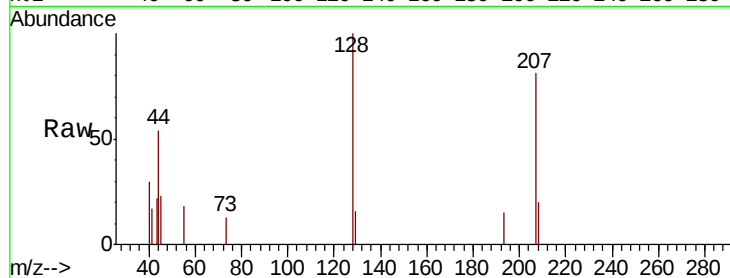
Tot Ion:128 Resp: 2478

Ion Ratio Lower Upper

128 100

127 2.5 11.1 16.7#

129 6.2 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

