

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064206.D
 Acq On : 20 Oct 2020 19:28
 Operator : JC/MD
 Sample : L4457-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 21 04:50:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45478	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	265605	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	235806	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	126938	34.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	113.63%
60) 4-Bromofluorobenzene	12.38	95	119006	28.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.87%
63) Toluene-d8	10.06	98	318470	29.83	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.43%

Target Compounds

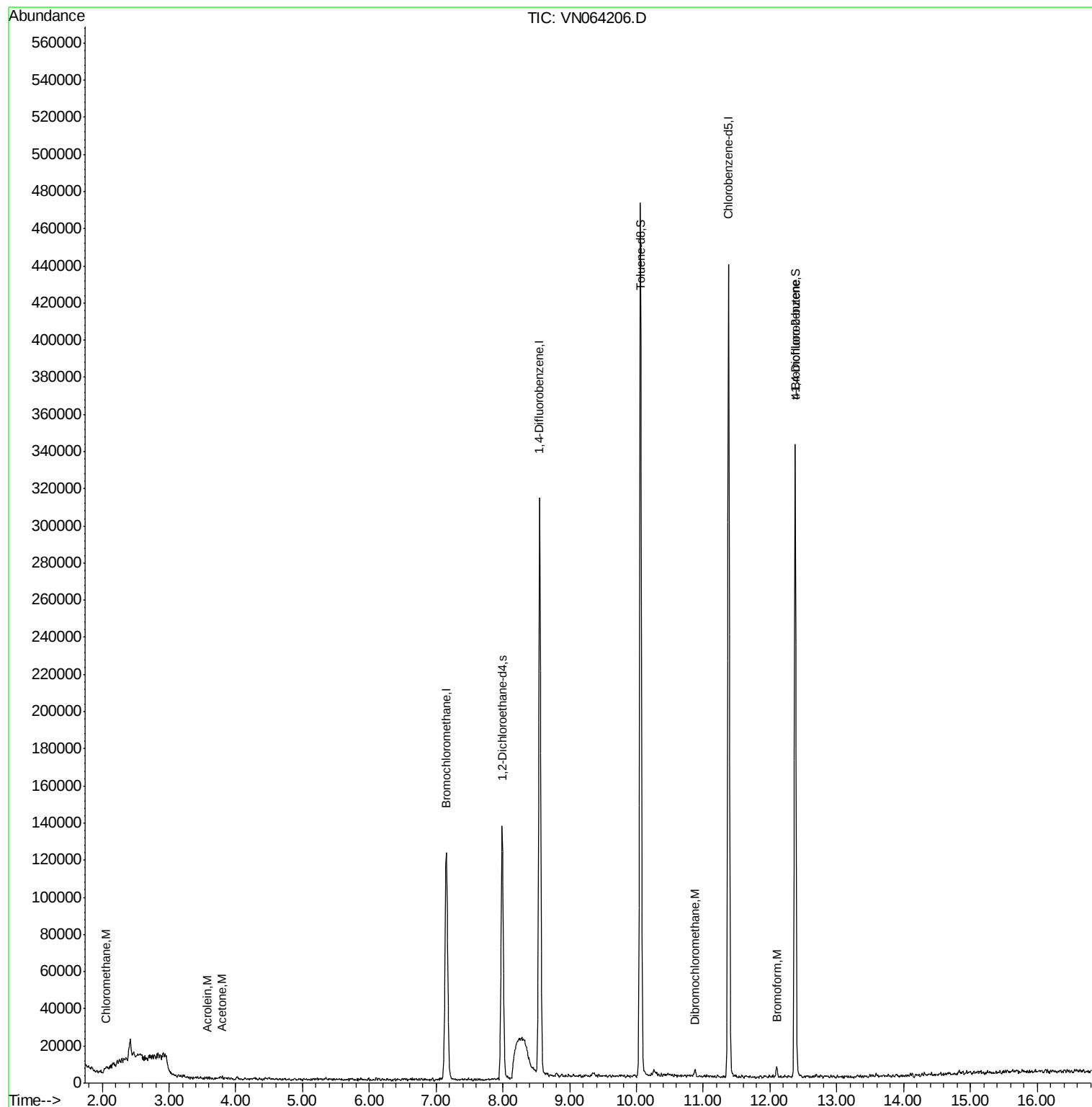
					Ovalue	
3) Chloromethane	2.04	50	737	0.230	ug/l	# 55
13) Acrolein	3.57	56	121	0.405	ug/l	# 1
15) Acetone	3.79	58	176	0.591	ug/l	# 1
53) Dibromochloromethane	10.87	129	2226	0.579	ug/l	# 54
56) Bromoform	12.10	173	1924	0.718	ug/l	# 90
77) t-1,4-Dichloro-2-butene	12.38	75	64361	38.968	ug/l	# 8

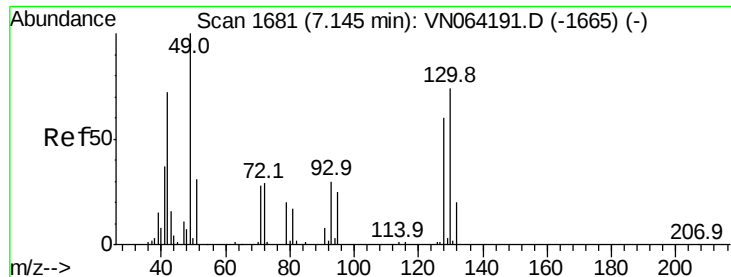
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN064206.D

Acq: 20 Oct 2020 19:28

Instrument :
MSVOA_N
ClientSampled :

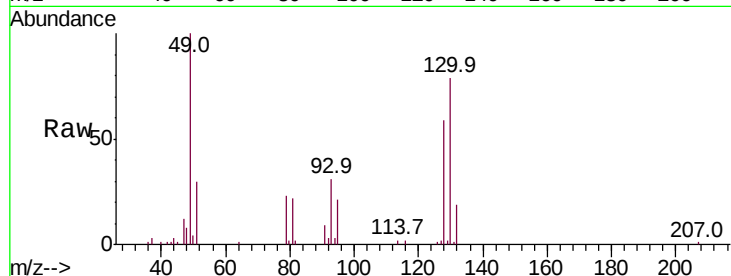
Tot Ion:128 Resp: 45478

Ion Ratio Lower Upper

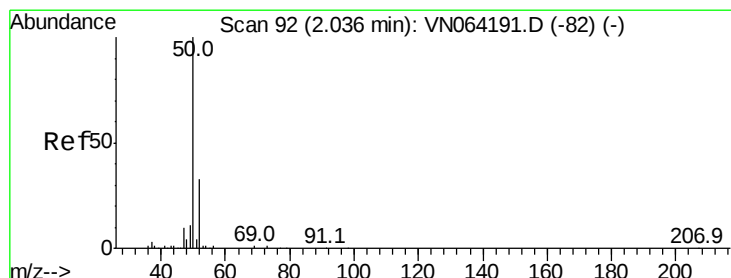
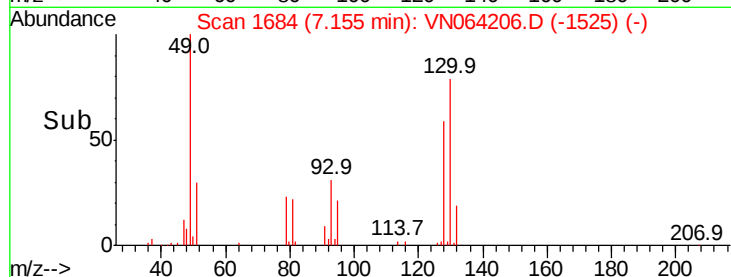
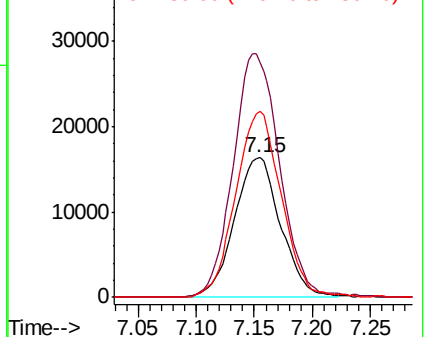
128 100

49 174.2 0.0 433.3

130 131.4 0.0 322.5



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.230 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064206.D

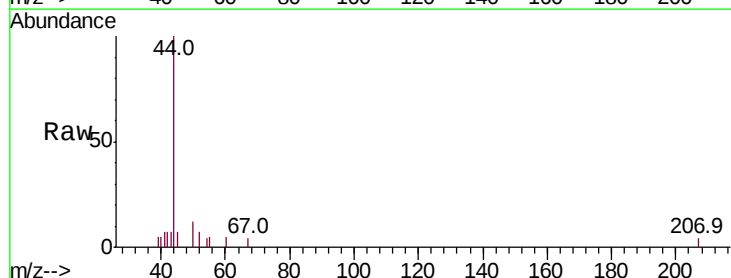
Acq: 20 Oct 2020 19:28

Tgt Ion: 50 Resp: 737

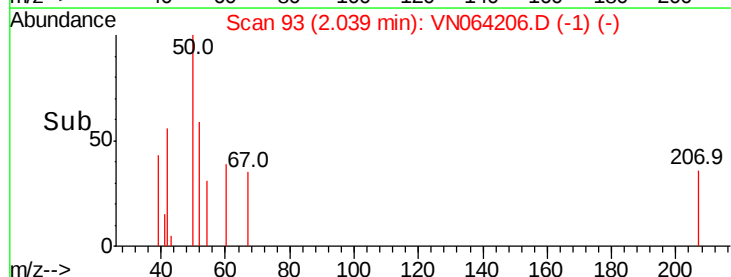
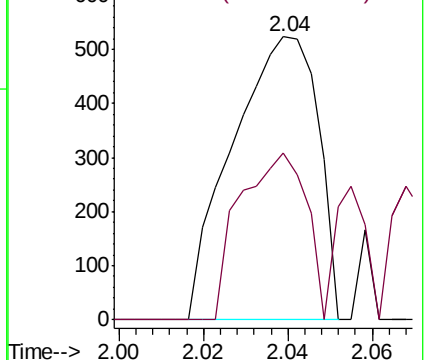
Ion Ratio Lower Upper

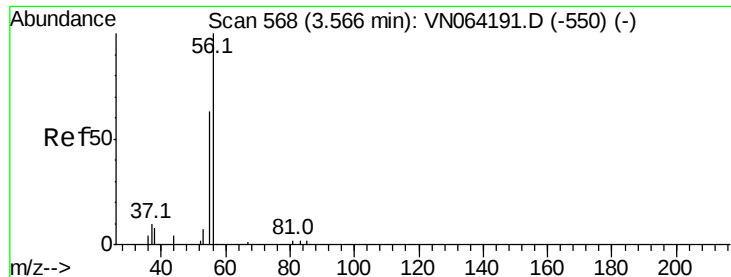
50 100

52 58.9 26.6 40.0#



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#13

Acrolein

Concen: 0.405 ug/l

RT: 3.57 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN064206.D

Acq: 20 Oct 2020 19:28

Instrument :

MSVOA_N

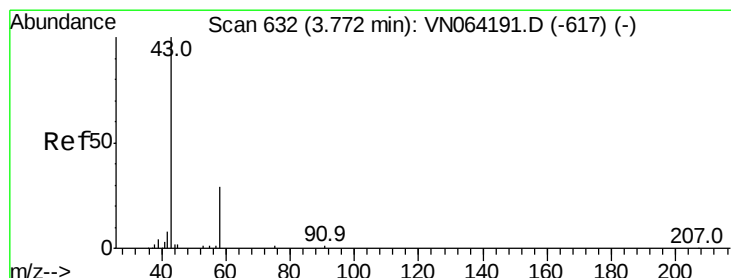
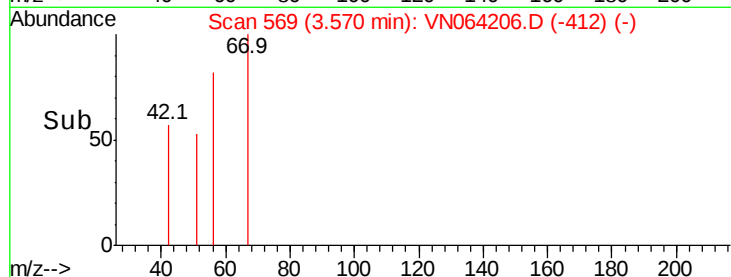
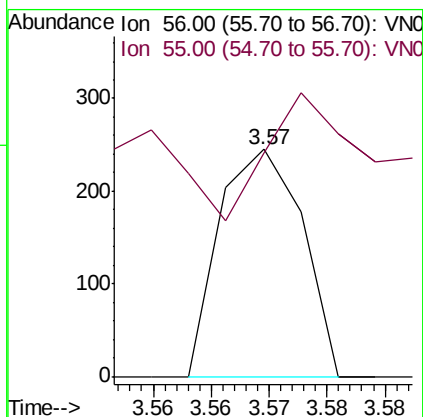
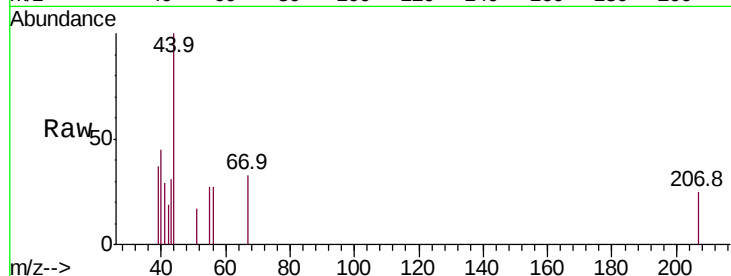
ClientSampled :

Tot Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 233.9 0.5 0.7#



#15

Acetone

Concen: 0.591 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.02 min

Lab File: VN064206.D

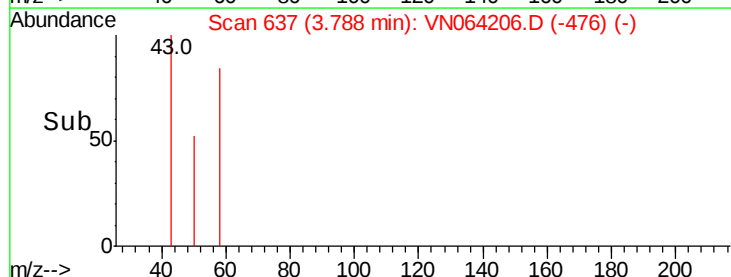
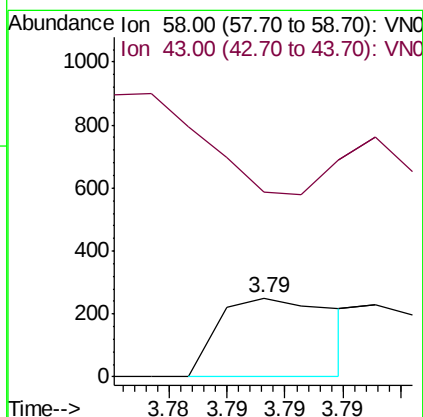
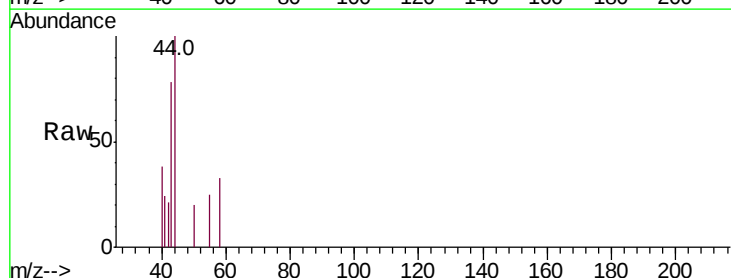
Acq: 20 Oct 2020 19:28

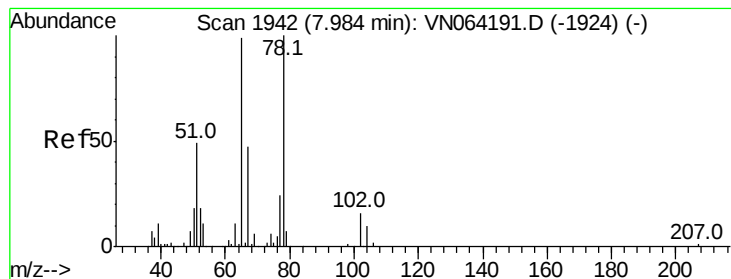
Tgt Ion: 58 Resp: 176

Ion Ratio Lower Upper

58 100

43 0.0 272.1 408.1#





#27

1,2-Dichloroethane-d4

Concen: 34.092 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.01 min

Lab File: VN064206.D

Acq: 20 Oct 2020 19:28

Instrument :

MSVOA_N

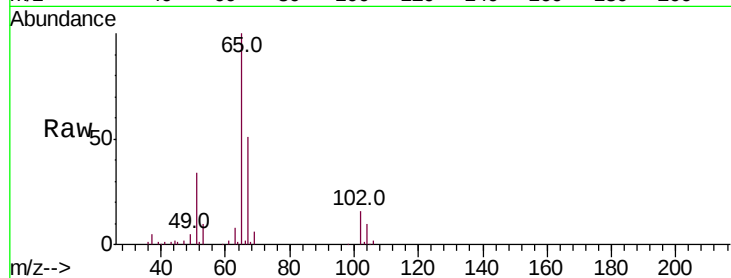
ClientSampled :

Tot Ion: 65 Resp: 126938

Ion Ratio Lower Upper

65 100

67 49.6 39.8 59.6



Abundance Ion 65.00 (64.70 to 65.70): VN064191.D (-1924) (-)

Ion 67.00 (66.70 to 67.70): VN064191.D (-1924) (-)

7.99

60000

50000

40000

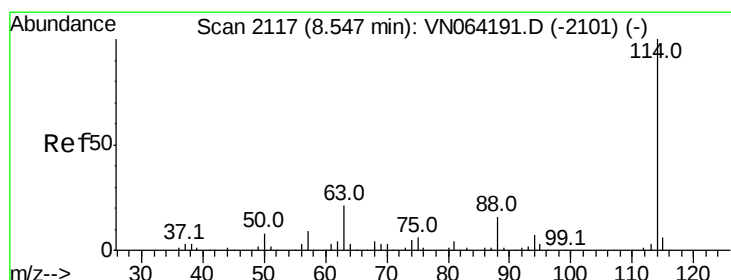
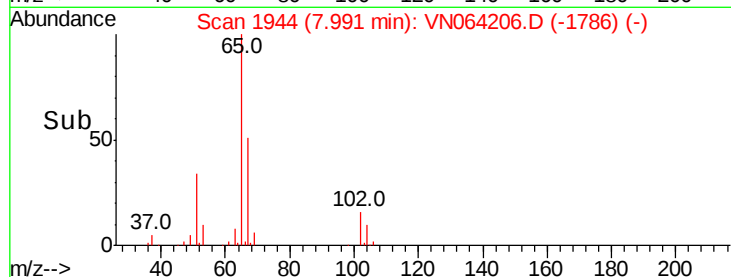
30000

20000

10000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VN064206.D

Acq: 20 Oct 2020 19:28

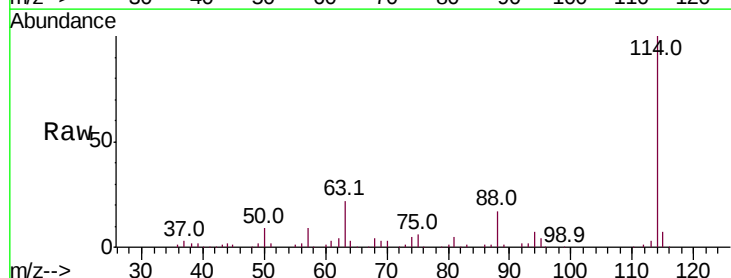
Tgt Ion: 114 Resp: 265605

Ion Ratio Lower Upper

114 100

63 22.1 17.0 25.4

88 17.0 13.0 19.4



Abundance Ion 114.00 (113.70 to 114.70): VN064191.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN064191.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN064191.D (-2101) (-)

8.55

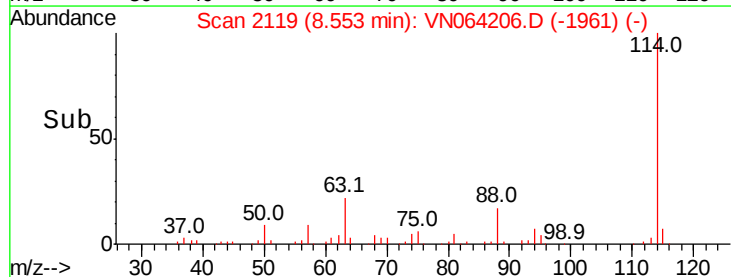
150000

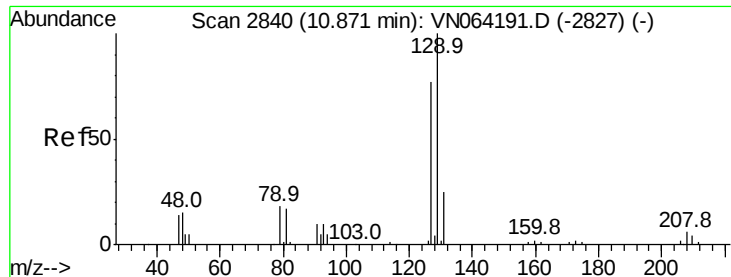
100000

50000

0

Time-->

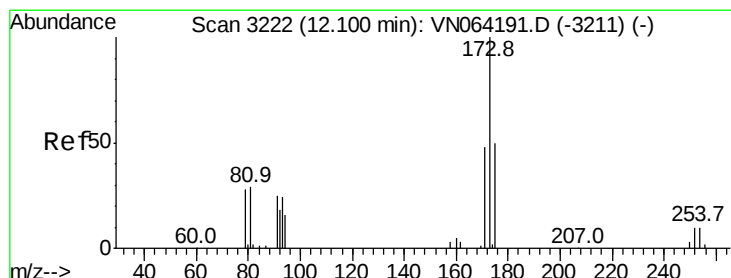
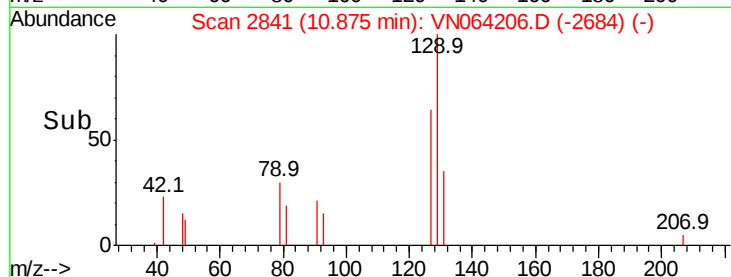
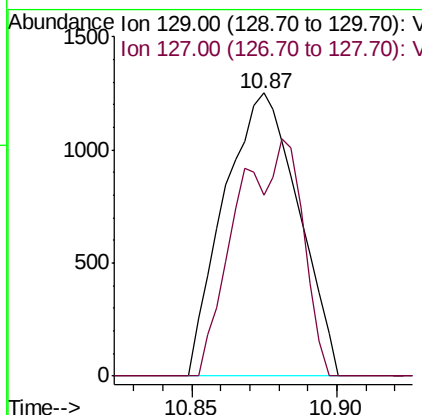
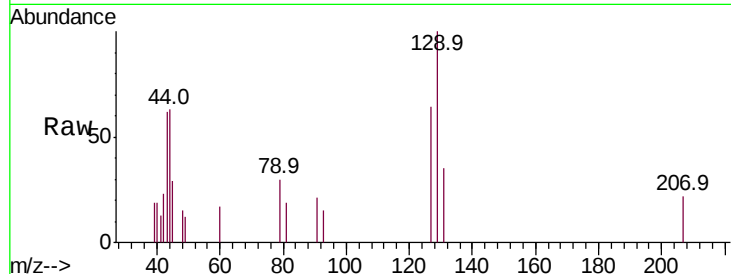




#53
 Dibromochloromethane
 Concen: 0.579 ug/l
 RT: 10.87 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VN064206.D
 Acq: 20 Oct 2020 19:28

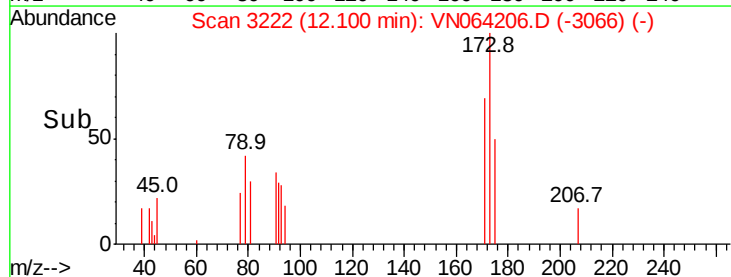
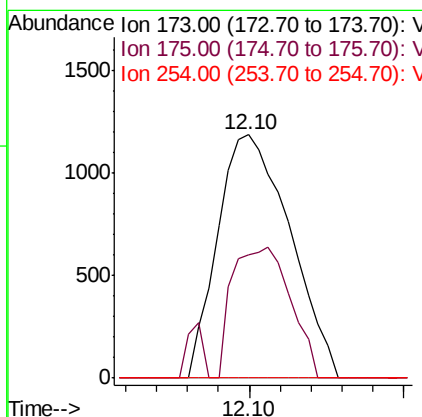
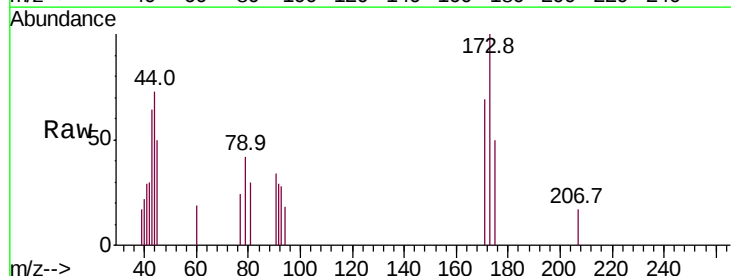
Instrument :
 MSVOA_N
 ClientSampleId :

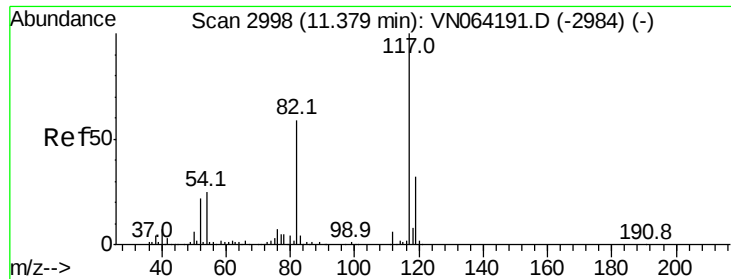
Tot Ion:129 Resp: 2226
 Ion Ratio Lower Upper
 129 100
 127 37.7 39.0 117.0#



#56
 Bromoform
 Concen: 0.718 ug/l
 RT: 12.10 min Scan# 3222
 Delta R.T. 0.00 min
 Lab File: VN064206.D
 Acq: 20 Oct 2020 19:28

Tgt Ion:173 Resp: 1924
 Ion Ratio Lower Upper
 173 100
 175 43.3 39.0 58.4
 254 0.0 6.8 10.2#

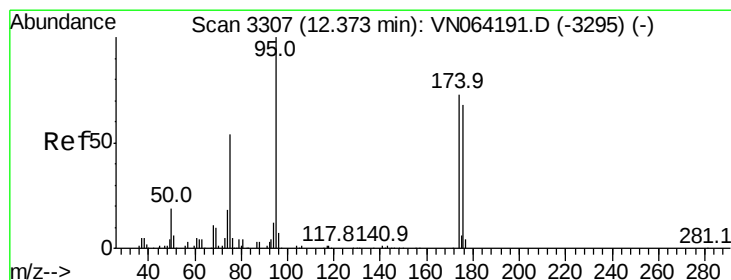
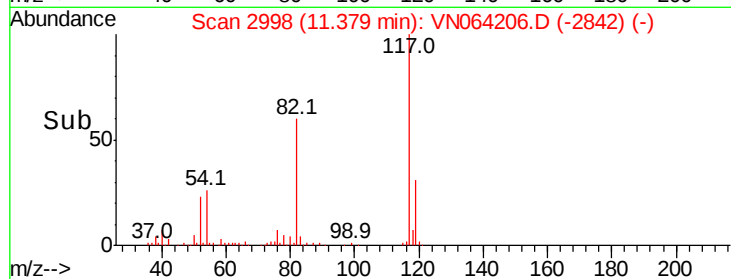
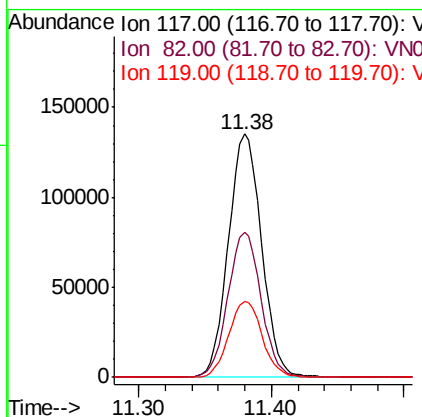
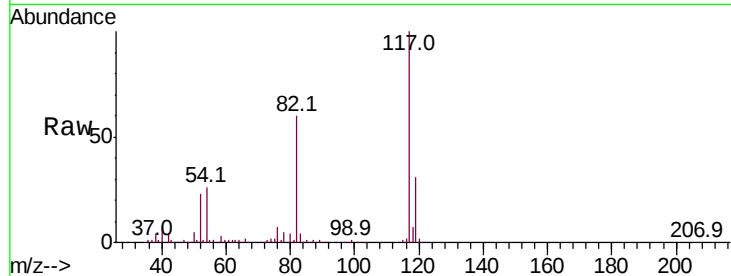




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064206.D
Acq: 20 Oct 2020 19:28

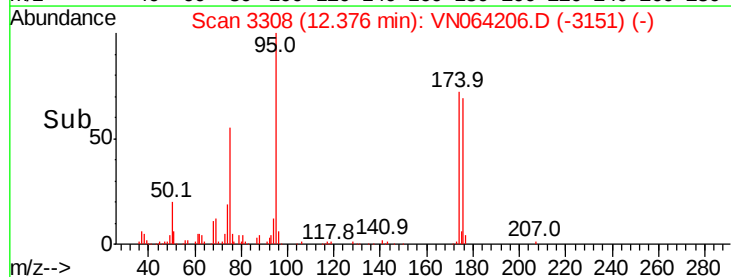
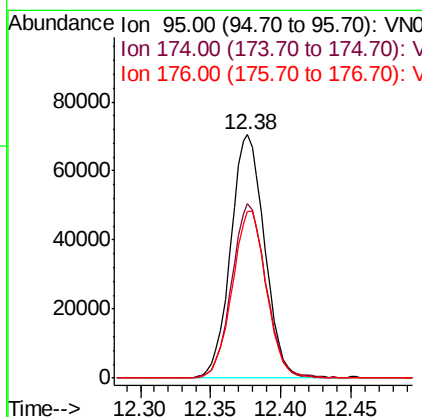
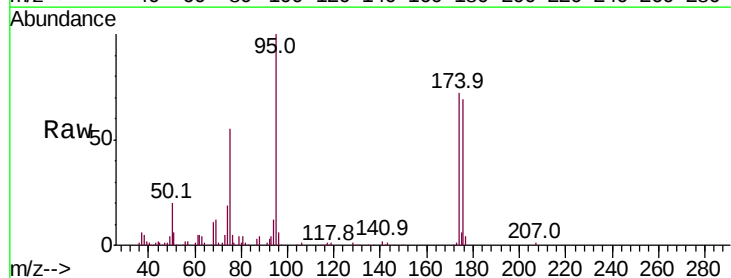
Instrument :
MSVOA_N
ClientSampleId :

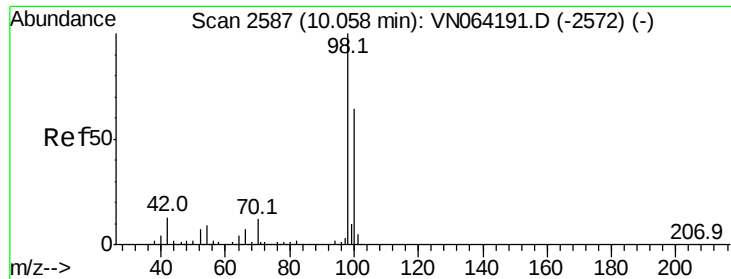
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.8	71.8
119	31.6	25.7	38.5



#60
4-Bromofluorobenzene
Concen: 28.162 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064206.D
Acq: 20 Oct 2020 19:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.6	57.6	86.4
176	68.9	54.9	82.3





#63

Toluene-d8

Concen: 29.831 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064206.D

Acq: 20 Oct 2020 19:28

Instrument :

MSVOA_N

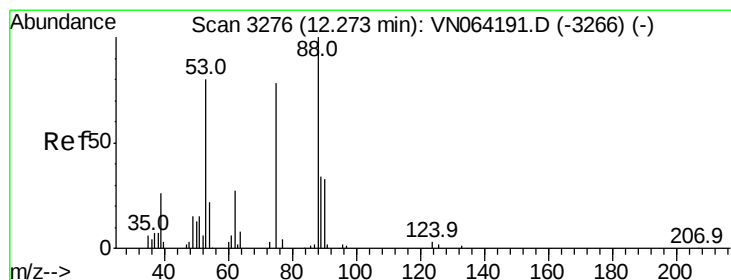
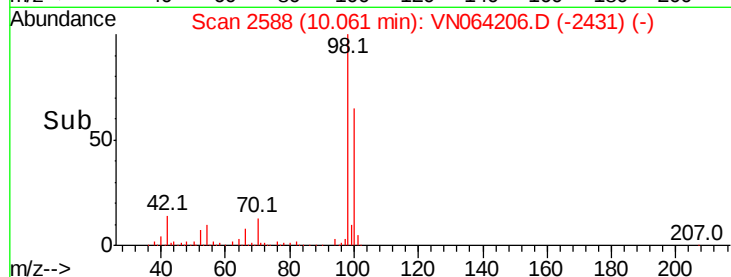
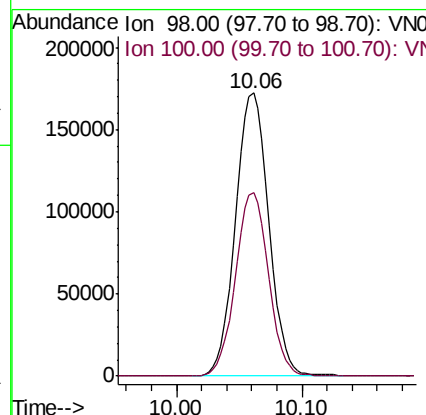
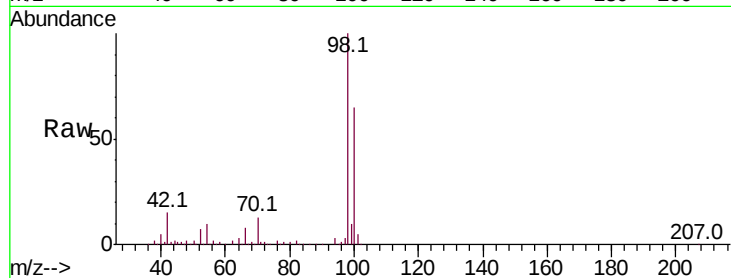
ClientSampleId :

Tot Ion: 98 Resp: 318470

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



#77

t-1,4-Dichloro-2-butene

Concen: 38.968 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064206.D

Acq: 20 Oct 2020 19:28

Tgt Ion: 75 Resp: 64361

Ion Ratio Lower Upper

75 100

53 0.0 51.4 154.2#

89 0.0 23.8 71.5#

