

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064041.D
 Acq On : 9 Oct 2020 16:26
 Operator : JC/MD
 Sample : L4327-02 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2

Quant Time: Oct 10 01:29:58 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	43532	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	214223	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	200055	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	118663	30.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.17%
60) 4-Bromofluorobenzene	12.38	95	80085	23.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.03%
63) Toluene-d8	10.06	98	267438	29.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.33%

Target Compounds

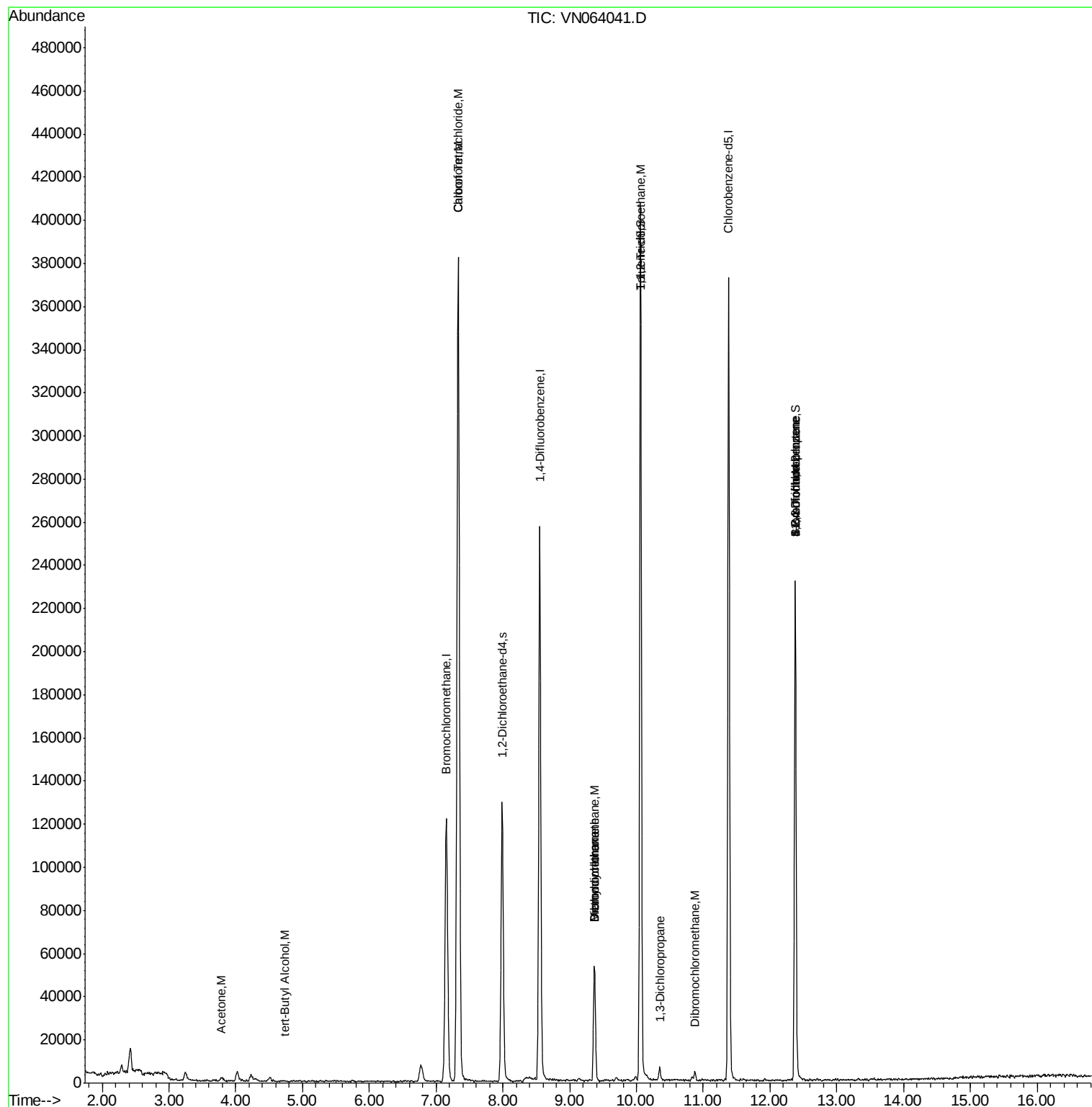
					Ovalue	
15) Acetone	3.77	58	242	0.707	ug/l #	1
23) tert-Butyl Alcohol	4.73	59	136	0.268	ug/l #	100
25) Chloroform	7.33	83	395863	71.354	ug/l	99
33) Carbon Tetrachloride	7.33	117	2552	0.609	ug/l	97
38) Methylcyclohexane	9.37	83	36647	11.570	ug/l #	16
40) Dibromomethane	9.37	93	1221	0.603	ug/l #	2
41) Bromodichloromethane	9.37	83	36647	8.711	ug/l #	90
50) 1,1,2-Trichloroethane	10.07	97	10514	3.890	ug/l #	1
52) 1,3-Dichloropropane	10.35	76	1045	0.226	ug/l #	43
53) Dibromochloromethane	10.87	129	2039	0.655	ug/l	94
56) Bromoform	12.38	173	638	0.296	ug/l #	1
72) 1,2,3-Trichloropropane	12.38	75	44044	11.504	ug/l	1
77) t-1,4-Dichloro-2-butene	12.38	75	44044	32.343	ug/l #	12

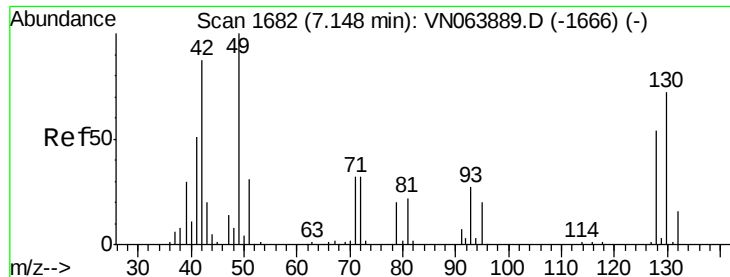
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampled :
14B-2

Quant Time: Oct 10 01:29:58 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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

Instrument :

MSVOA_N

ClientSampled :

14B-2

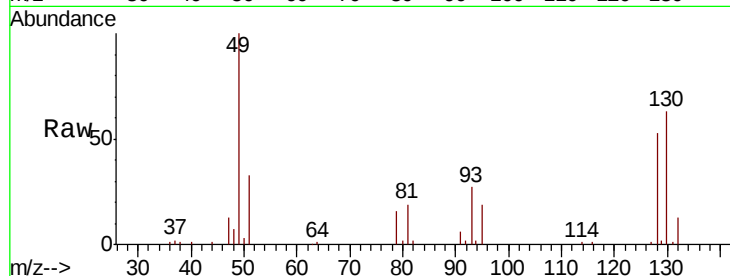
Tot Ion:128 Resp: 43532

Ion Ratio Lower Upper

128 100

49 197.1 0.0 437.5

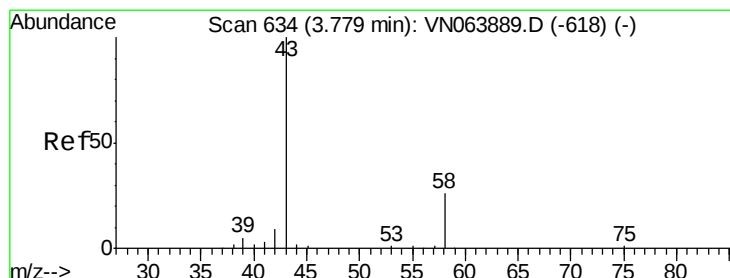
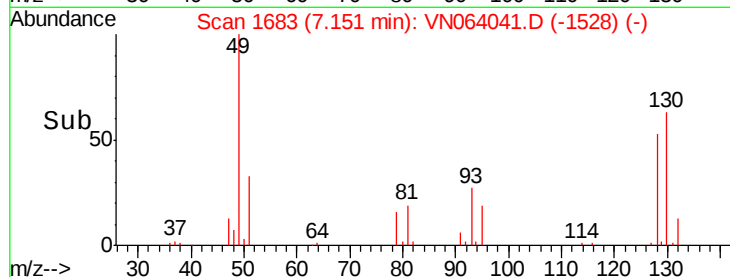
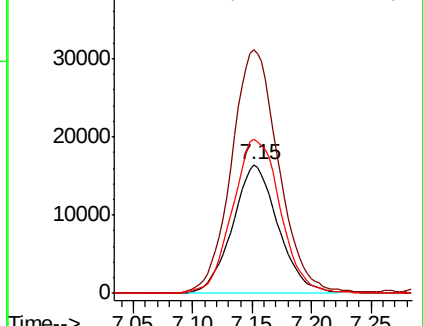
130 126.6 0.0 327.3



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



#15

Acetone

Concen: 0.707 ug/l

RT: 3.77 min Scan# 631

Delta R.T. -0.01 min

Lab File: VN064041.D

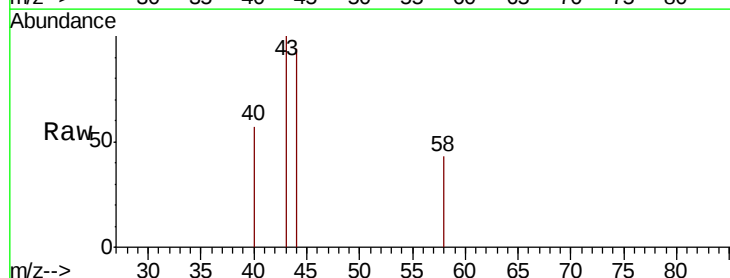
Acq: 9 Oct 2020 16:26

Tgt Ion: 58 Resp: 242

Ion Ratio Lower Upper

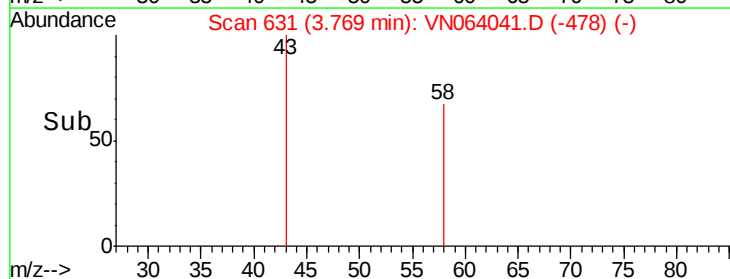
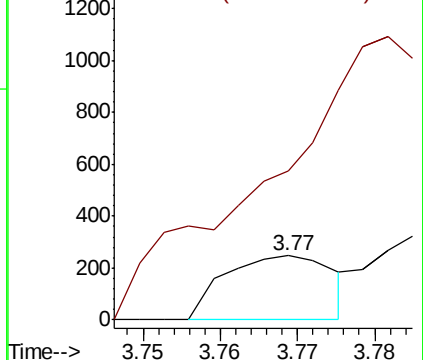
58 100

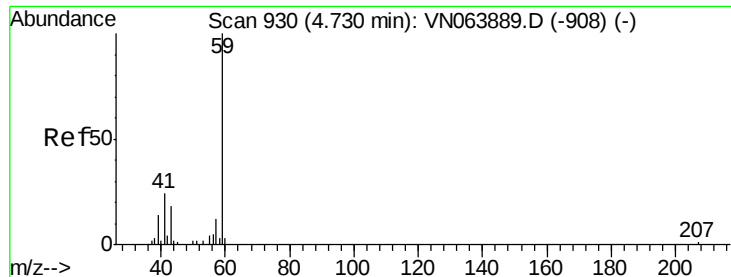
43 85.4 233.2 349.8#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

tert-Butyl Alcohol

Concen: 0.268 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.01 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

Instrument :

MSVOA_N

ClientSampled :

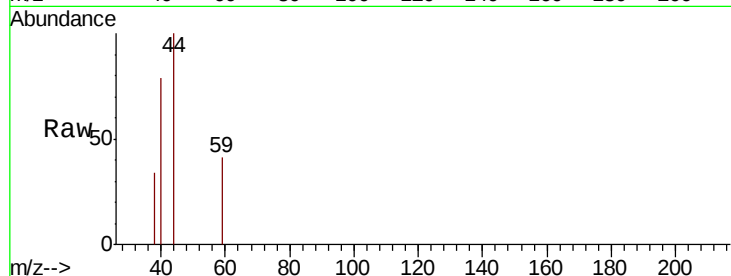
14B-2

Tot Ion: 59 Resp: 136

Ion Ratio Lower Upper

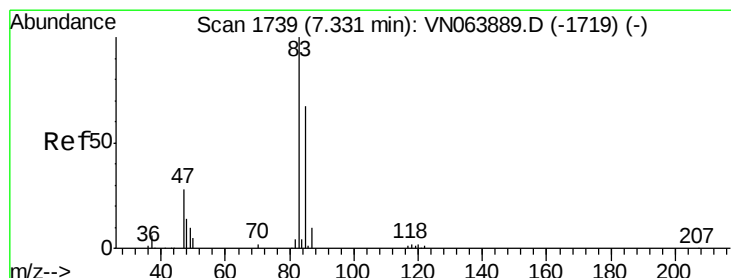
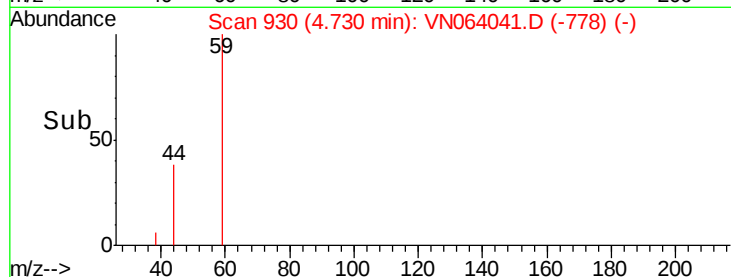
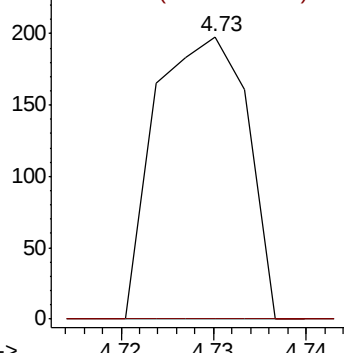
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#25

Chloroform

Concen: 71.354 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VN064041.D

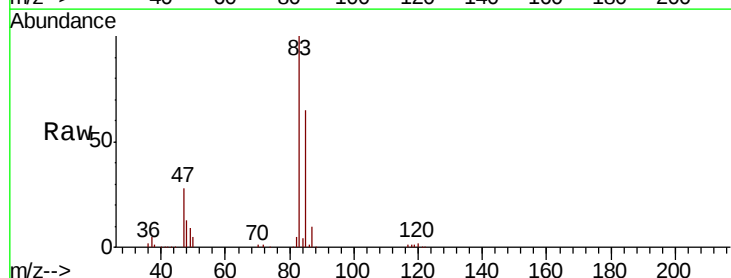
Acq: 9 Oct 2020 16:26

Tgt Ion: 83 Resp: 395863

Ion Ratio Lower Upper

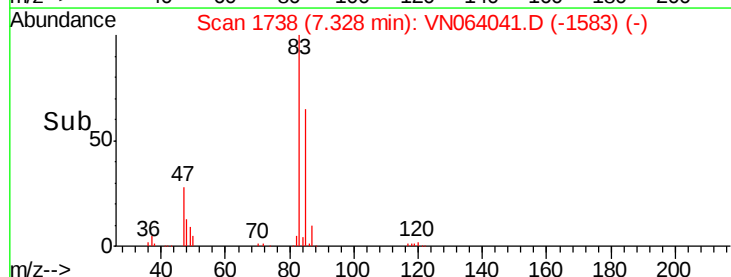
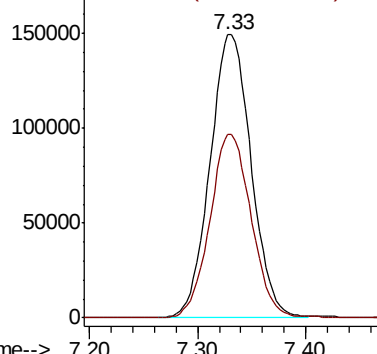
83 100

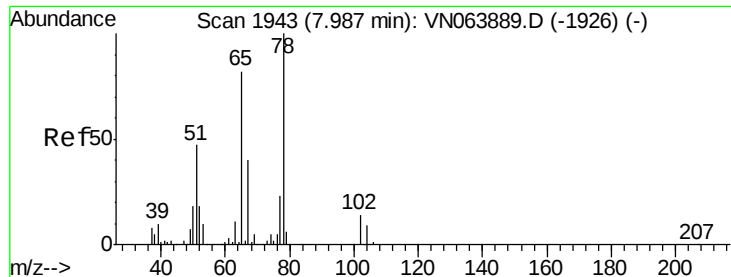
85 64.7 51.0 76.4



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 30.352 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

Instrument :

MSVOA_N

ClientSampled :

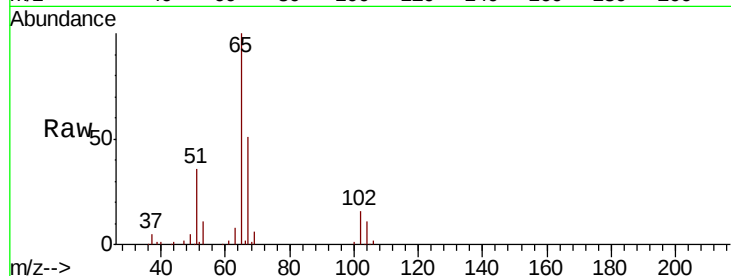
14B-2

Tot Ion: 65 Resp: 118663

Ion Ratio Lower Upper

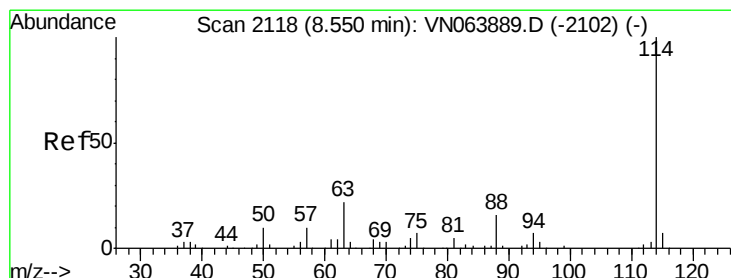
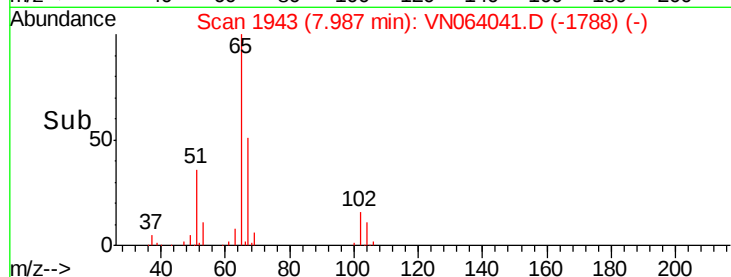
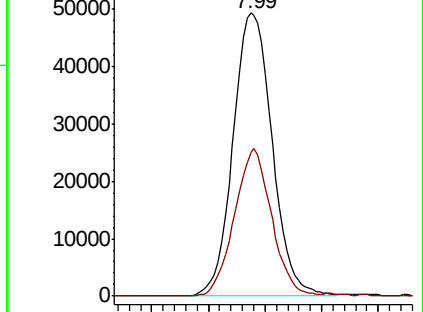
65 100

67 49.4 43.8 65.6



Abundance Ion 65.00 (64.70 to 65.70): VN063889.D (-1926) (-)

Ion 67.00 (66.70 to 67.70): VN063889.D (-1926) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

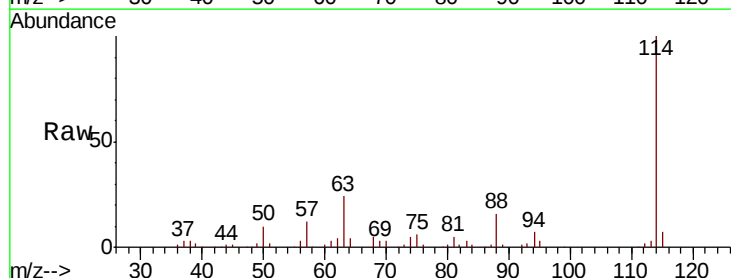
Tgt Ion: 114 Resp: 214223

Ion Ratio Lower Upper

114 100

63 23.0 17.0 25.6

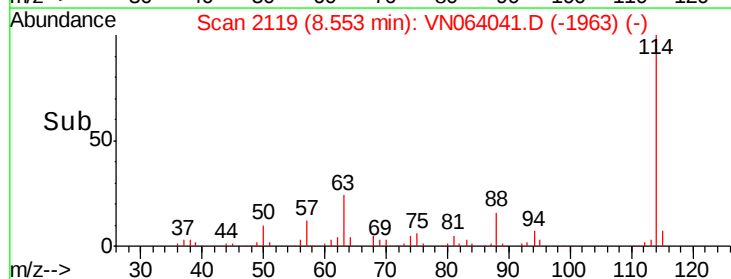
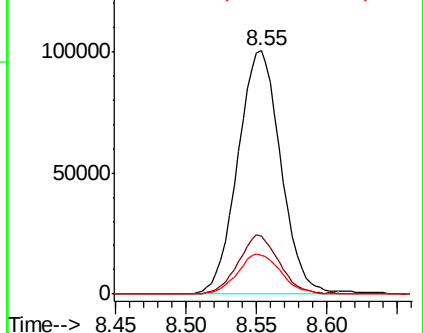
88 16.5 12.6 18.8

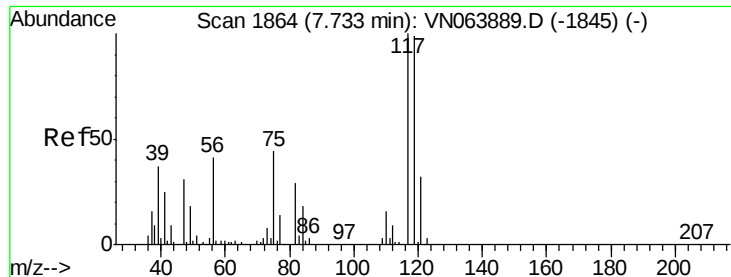


Abundance Ion 114.00 (113.70 to 114.70): VN063889.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN063889.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN063889.D (-2102) (-)

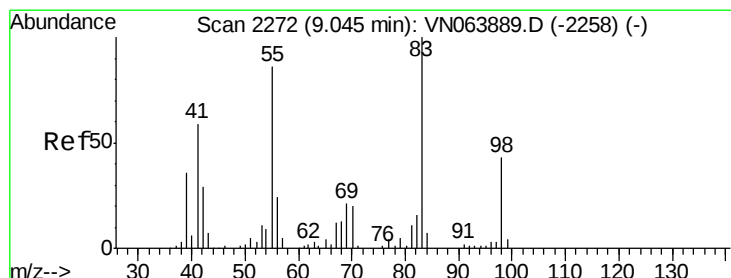
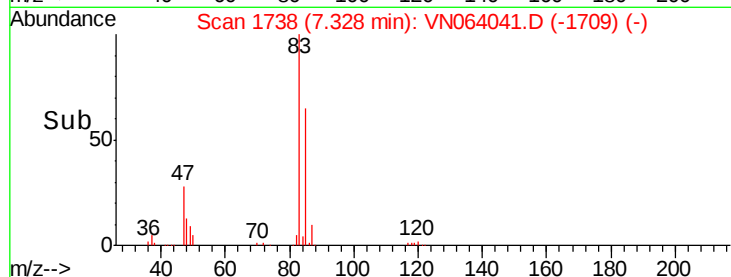
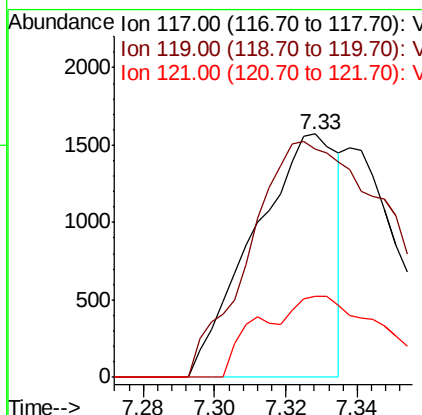
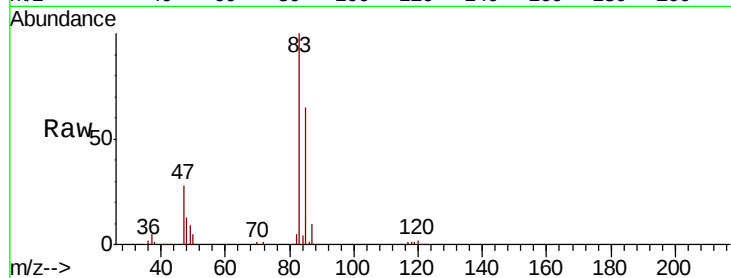




#33
Carbon Tetrachloride
Concen: 0.609 ug/l
RT: 7.33 min Scan# 1738
Delta R.T. -0.41 min
Lab File: VN064041.D
Acq: 9 Oct 2020 16:26

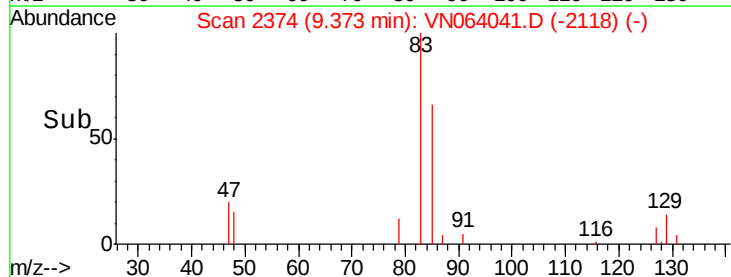
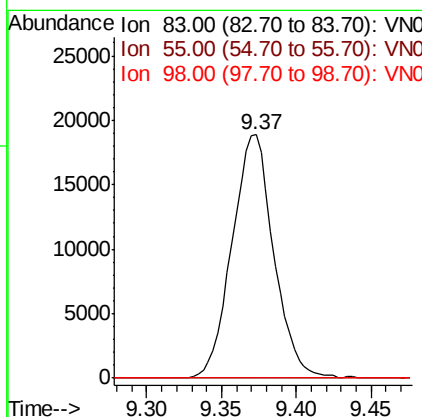
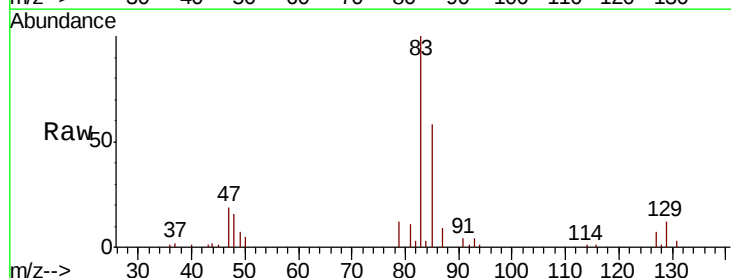
Instrument :
MSVOA_N
ClientSampled :
14B-2

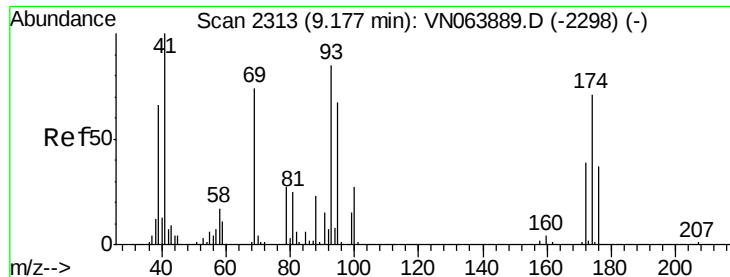
Tot Ion:117 Resp: 2552
Ion Ratio Lower Upper
117 100
119 93.9 73.0 109.4
121 33.3 24.9 37.3



#38
Methylcyclohexane
Concen: 11.570 ug/l
RT: 9.37 min Scan# 2374
Delta R.T. 0.32 min
Lab File: VN064041.D
Acq: 9 Oct 2020 16:26

Tgt Ion: 83 Resp: 36647
Ion Ratio Lower Upper
83 100
55 0.0 41.9 125.7#
98 0.0 22.2 66.6#





#40

Dibromomethane

Concen: 0.603 ug/l

RT: 9.37 min Scan# 2373

Delta R.T. 0.19 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

Instrument :

MSVOA_N

ClientSampleId :

14B-2

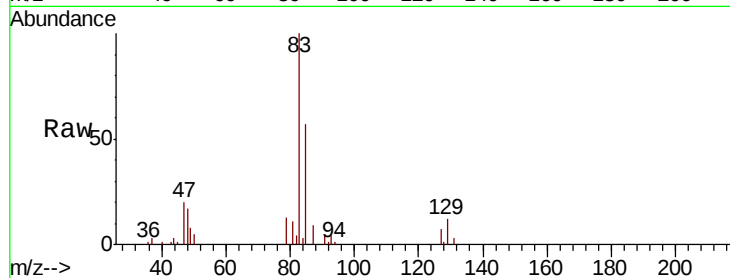
Tot Ion: 93 Resp: 1221

Ion Ratio Lower Upper

93 100

95 0.0 0.0 168.2

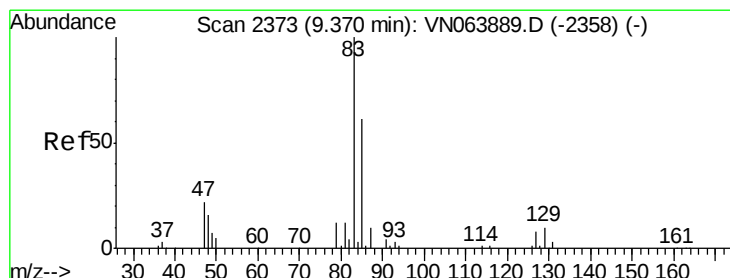
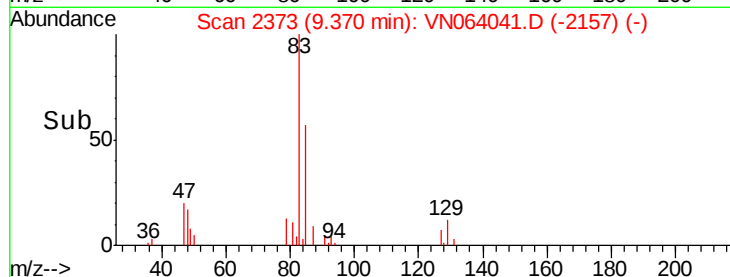
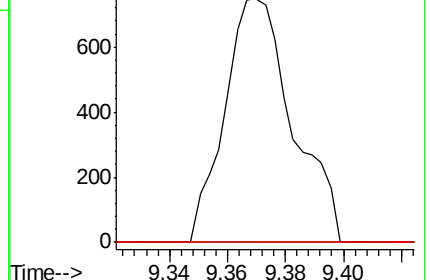
174 0.0 0.0 208.4



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V



#41

Bromodichloromethane

Concen: 8.711 ug/l

RT: 9.37 min Scan# 2374

Delta R.T. 0.01 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

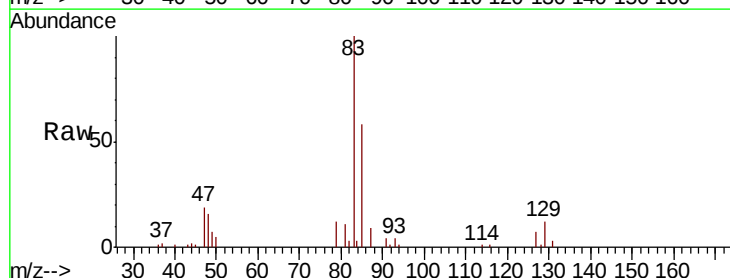
Tgt Ion: 83 Resp: 36647

Ion Ratio Lower Upper

83 100

85 57.6 52.6 79.0

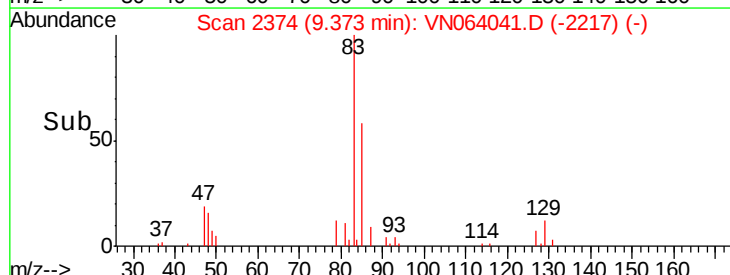
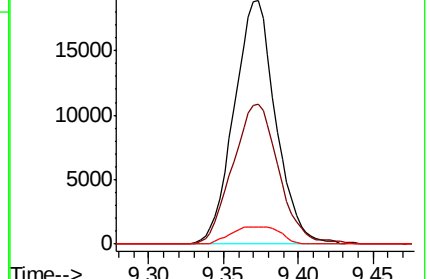
127 6.9 7.4 11.0#

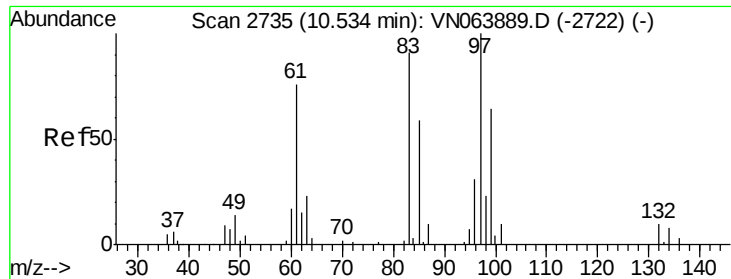


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): V

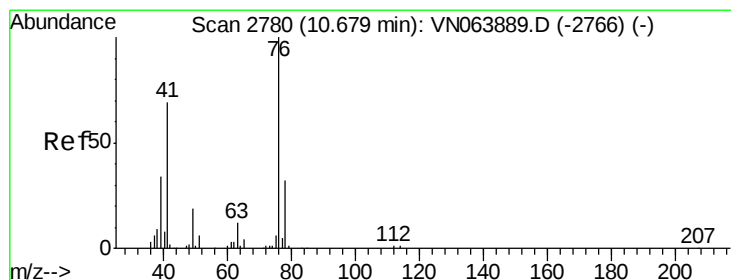
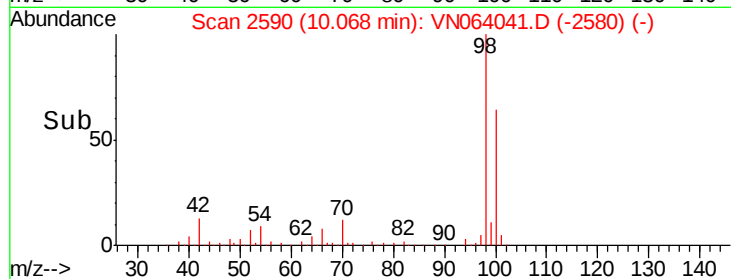
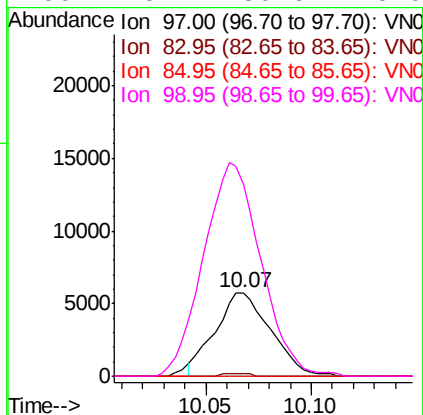
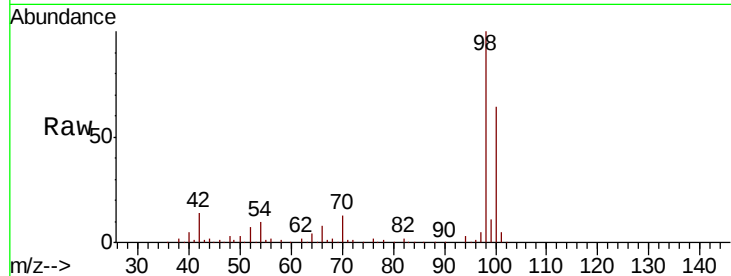




#50
 1,1,2-Trichloroethane
 Concen: 3.890 ug/l
 RT: 10.07 min Scan# 2590
 Delta R.T. -0.47 min
 Lab File: VN064041.D
 Acq: 9 Oct 2020 16:26

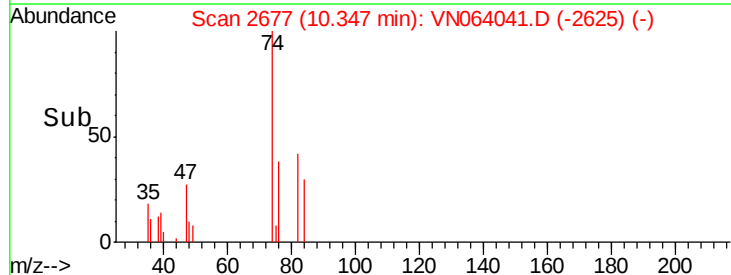
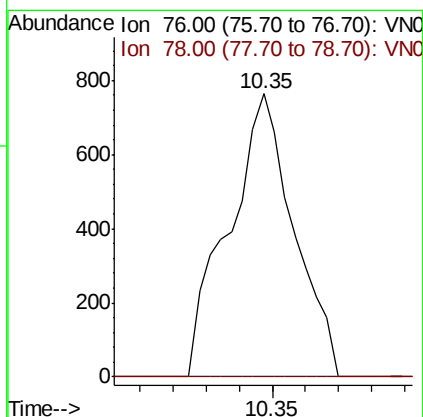
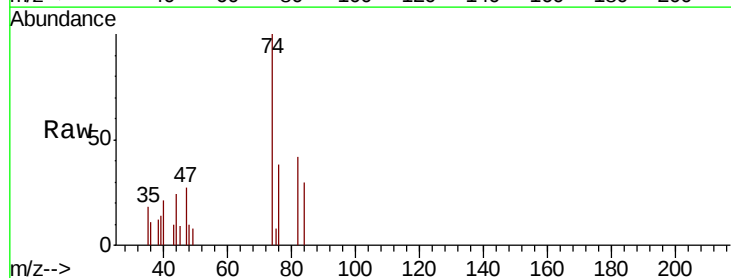
Instrument :
 MSVOA_N
 ClientSampled :
 14B-2

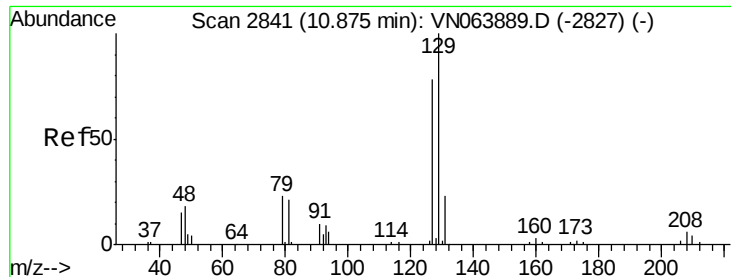
Tot Ion: 97 Resp: 10514
 Ion Ratio Lower Upper
 97 100
 83 3.7 69.9 104.9#
 85 0.0 44.0 66.0#
 99 226.1 50.6 76.0#



#52
 1,3-Dichloropropane
 Concen: 0.226 ug/l
 RT: 10.35 min Scan# 2677
 Delta R.T. -0.33 min
 Lab File: VN064041.D
 Acq: 9 Oct 2020 16:26

Tgt Ion: 76 Resp: 1045
 Ion Ratio Lower Upper
 76 100
 78 0.0 0.0 63.2

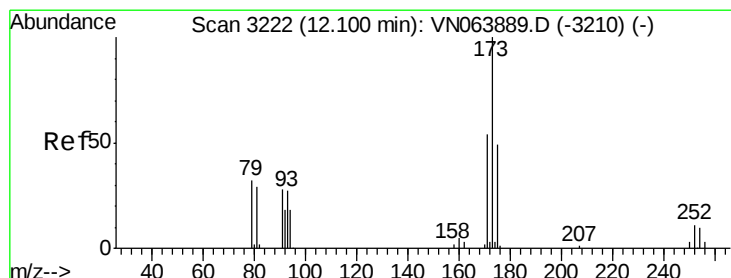
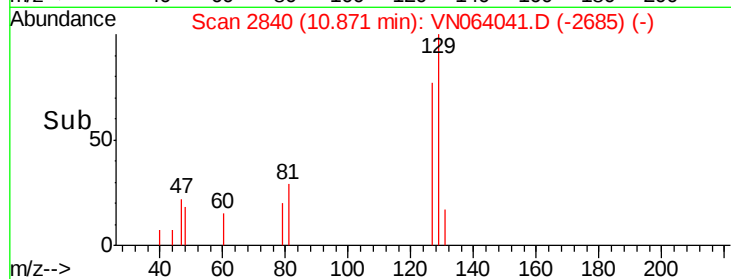
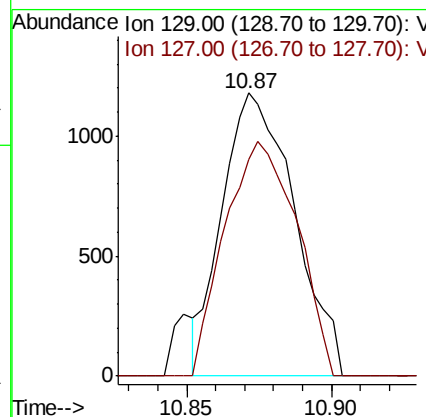
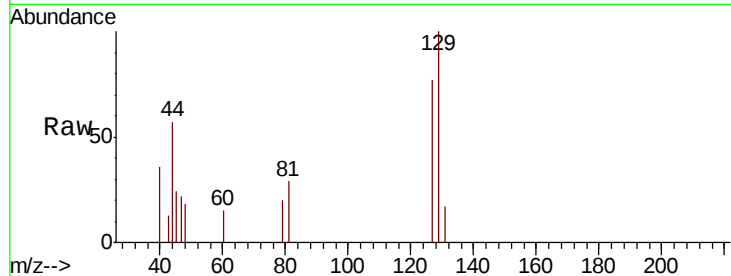




#53
 Dibromochloromethane
 Concen: 0.655 ug/l
 RT: 10.87 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VN064041.D
 Acq: 9 Oct 2020 16:26

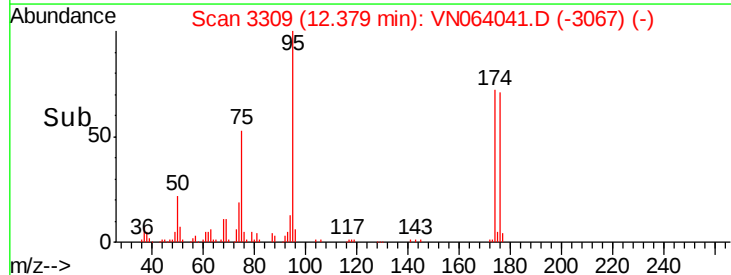
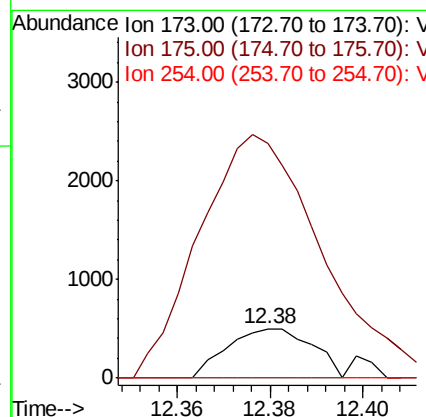
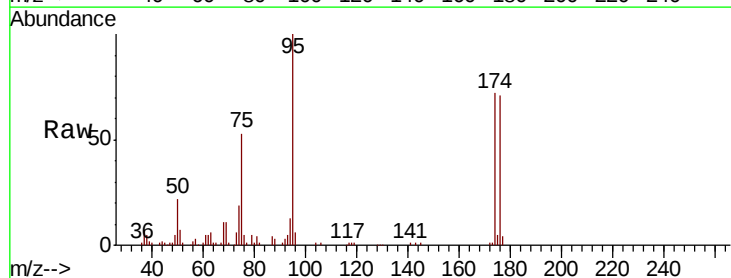
Instrument :
 MSVOA_N
 ClientSampled :
 14B-2

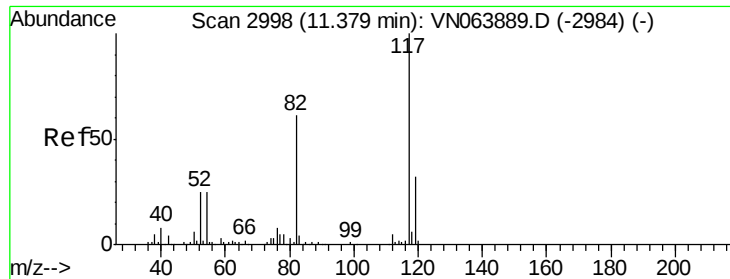
Tot Ion:129 Resp: 2039
 Ion Ratio Lower Upper
 129 100
 127 82.9 38.7 116.1



#56
 Bromoform
 Concen: 0.296 ug/l
 RT: 12.38 min Scan# 3309
 Delta R.T. 0.28 min
 Lab File: VN064041.D
 Acq: 9 Oct 2020 16:26

Tgt Ion:173 Resp: 638
 Ion Ratio Lower Upper
 173 100
 175 707.2 41.2 61.8#
 254 0.0 9.0 13.4#

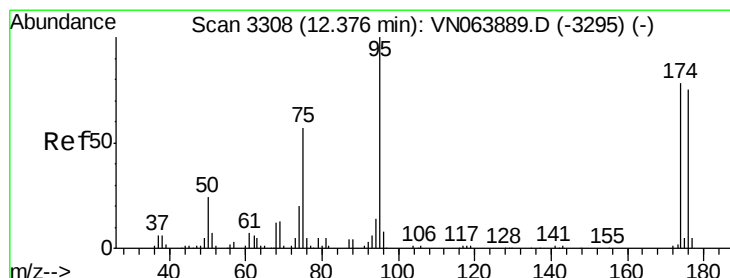
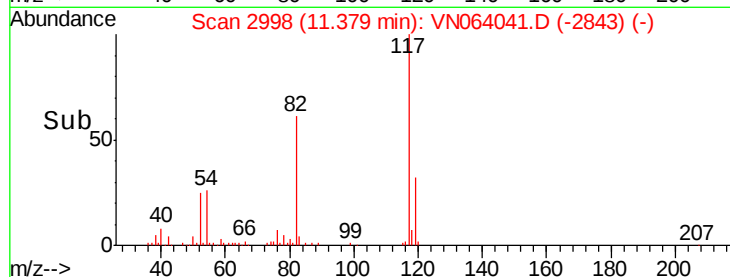
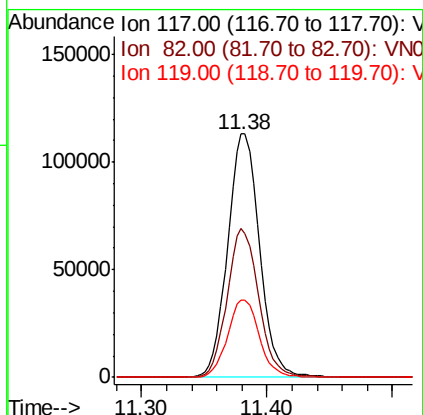
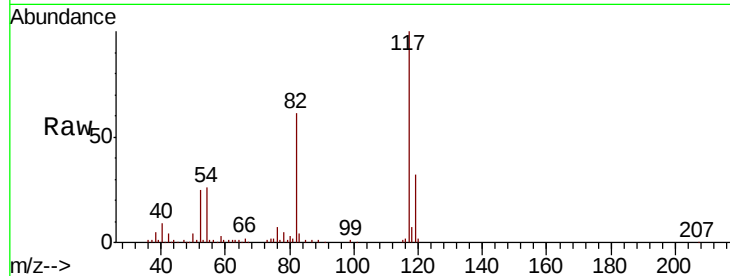




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064041.D
Acq: 9 Oct 2020 16:26

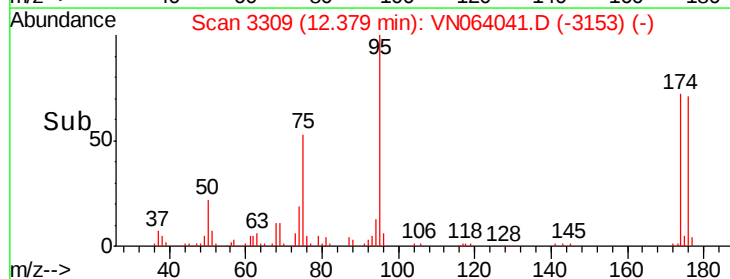
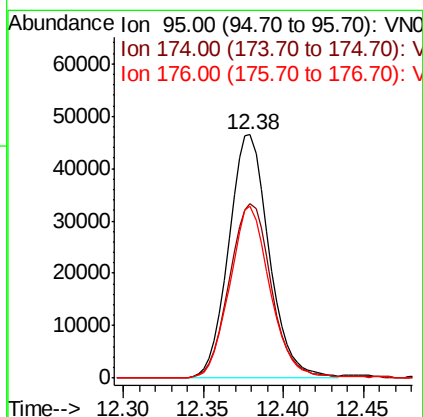
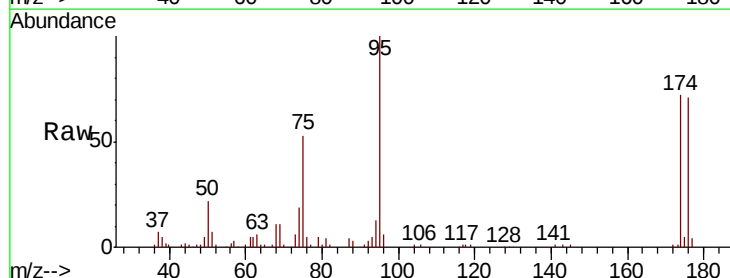
Instrument :
MSVOA_N
ClientSampled :
14B-2

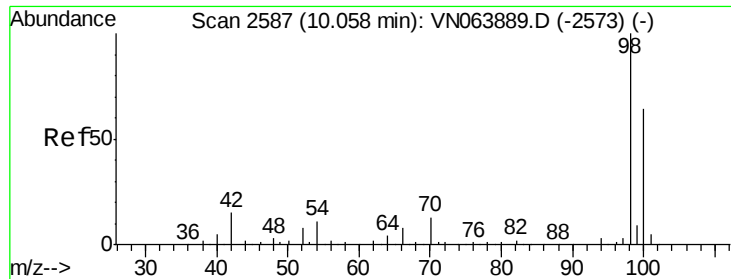
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.2	44.9	67.3
119	31.7	26.0	39.0



#60
4-Bromofluorobenzene
Concen: 23.409 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN064041.D
Acq: 9 Oct 2020 16:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.9	70.1	105.1
176	70.4	66.8	100.2





#63

Toluene-d8

Concen: 29.498 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064041.D

Acq: 9 Oct 2020 16:26

Instrument :

MSVOA_N

ClientSampled :

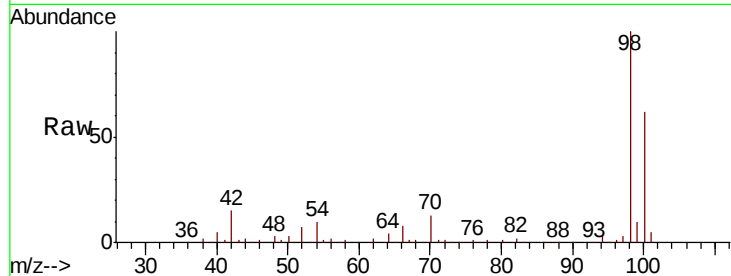
14B-2

Tot Ion: 98 Resp: 267438

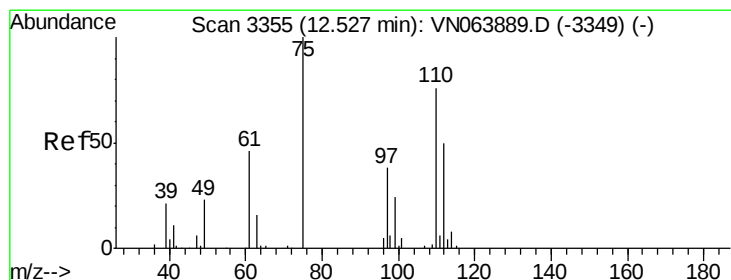
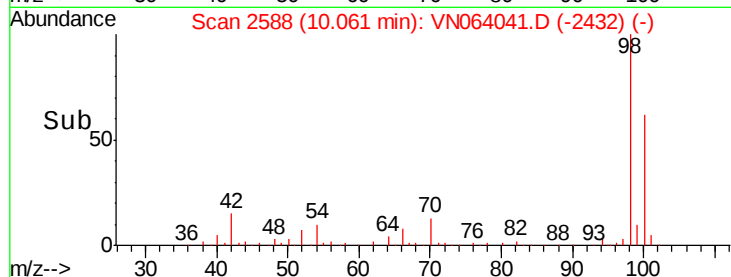
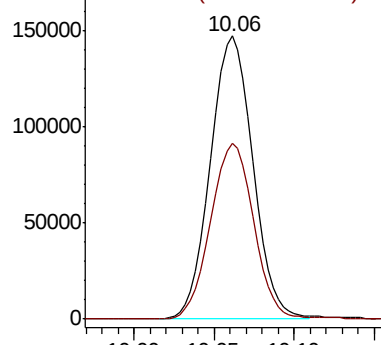
Ion Ratio Lower Upper

98 100

100 63.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN063889.D (-2573) (-)



#72

1,2,3-Trichloropropane

Concen: 11.504 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064041.D

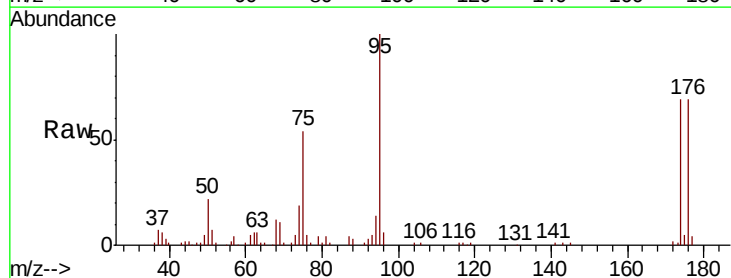
Acq: 9 Oct 2020 16:26

Tgt Ion: 75 Resp: 44044

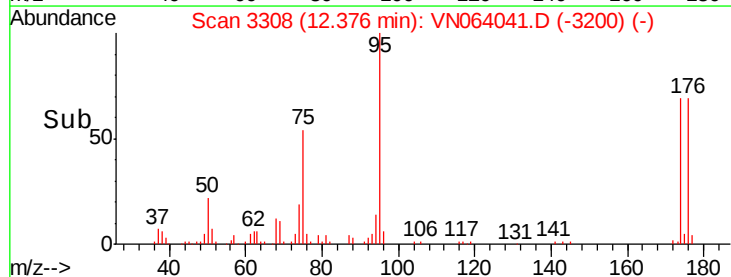
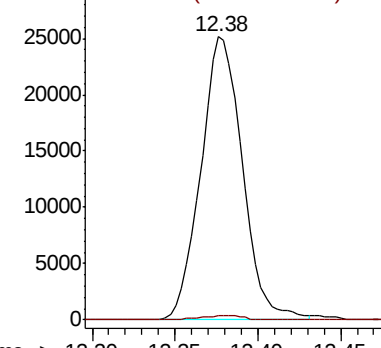
Ion Ratio Lower Upper

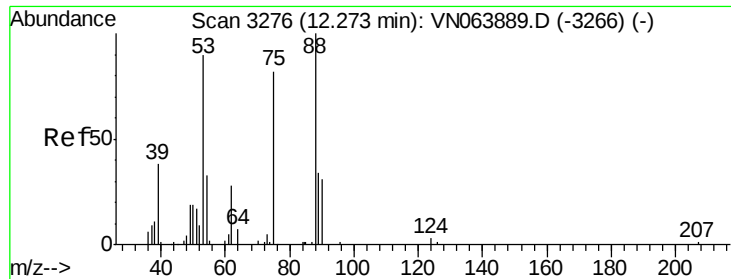
75 100

77 1.0 0.0 387.8



Abundance Ion 75.00 (74.70 to 75.70): VN063889.D (-3349) (-)





#77
t-1,4-Dichloro-2-butene
Concen: 32.343 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064041.D
Acq: 9 Oct 2020 16:26

Instrument :
MSVOA_N
ClientSampleId :
14B-2

Tot Ion: 75 Resp: 44044
Ion Ratio Lower Upper
75 100
53 0.0 47.0 141.0#
89 0.0 22.9 68.7#

