

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076613.D
 Acq On : 10 Feb 2023 16:45
 Operator : JC\MD
 Sample : 01469-04 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: Feb 11 00:58:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

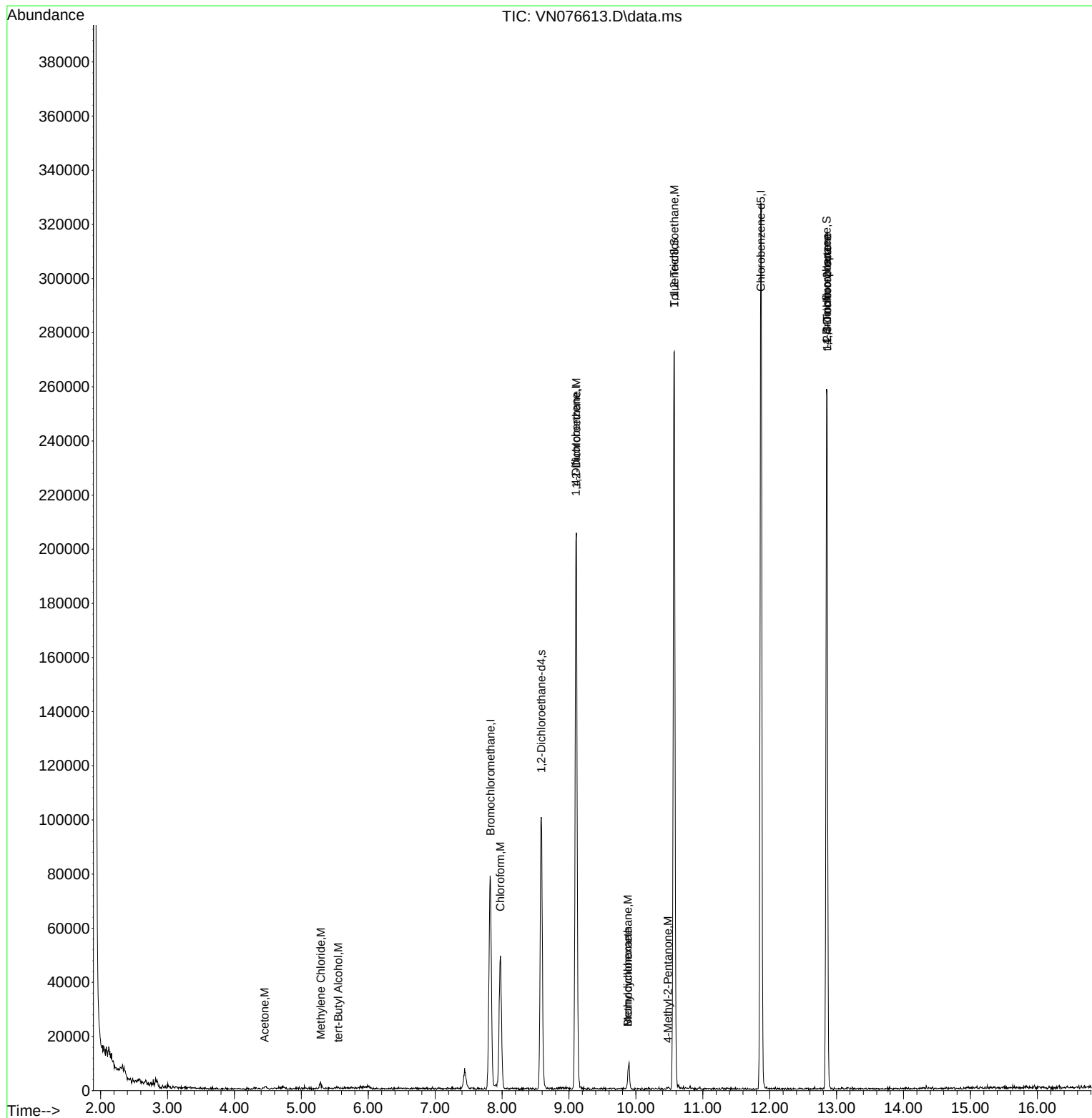
Internal Standards						
1) Bromochloromethane	7.828	128	27443	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	171181	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	180261	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	86367	26.702	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.000%	#	
60) 4-Bromofluorobenzene	12.851	95	92211	22.659	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	75.533%		
63) Toluene-d8	10.575	98	189407	28.617	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.400%		
Target Compounds						
					Qvalue	
15) Acetone	4.451	58	184	0.338	ug/l #	1
18) Methylene Chloride	5.292	84	1004	0.277	ug/l #	55
23) tert-Butyl Alcohol	5.551	59	331	0.524	ug/l #	100
25) Chloroform	7.975	83	47280	6.500	ug/l	93
36) 1,2-Dichloroethane	9.110	62	6404	1.227	ug/l #	74
38) Methylcyclohexane	9.880	83	2923	0.596	ug/l #	18
41) Bromodichloromethane	9.880	83	2923	0.650	ug/l #	87
50) 1,1,2-Trichloroethane	10.575	97	6731	2.319	ug/l #	1
58) 4-Methyl-2-Pentanone	10.480	43	1061	0.211	ug/l #	44
72) 1,2,3-Trichloropropane	12.857	75	50790	10.990	ug/l	1
77) t-1,4-Dichloro-2-butene	12.857	75	50790	36.436	ug/l #	15

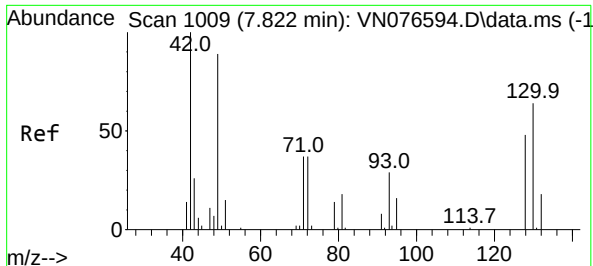
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :
14B-4

Quant Time: Feb 11 00:58:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 10 05:40:47 2023
Response via : Initial Calibration

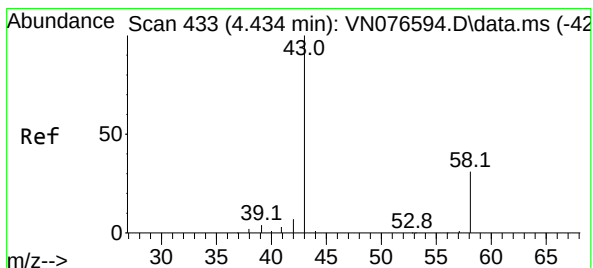
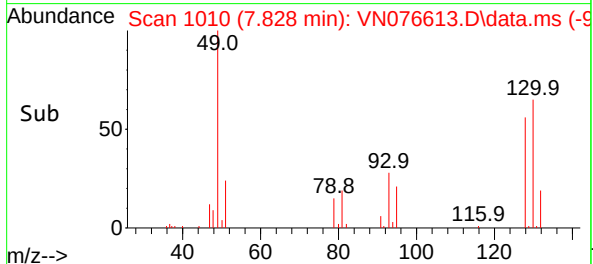
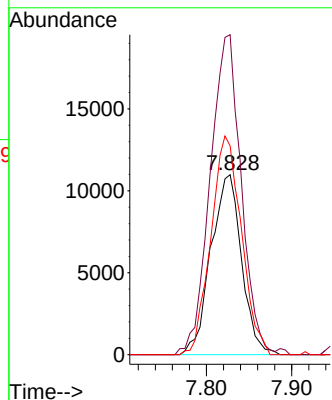
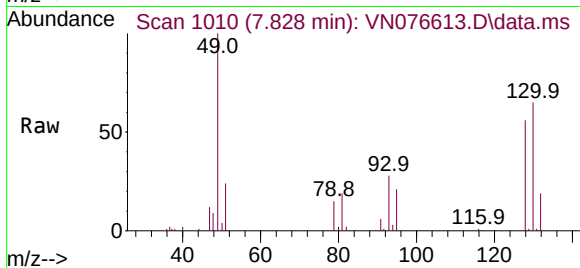




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.828 min Scan# 1009
Delta R.T. -0.002 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

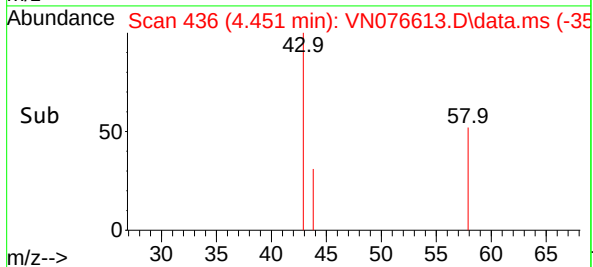
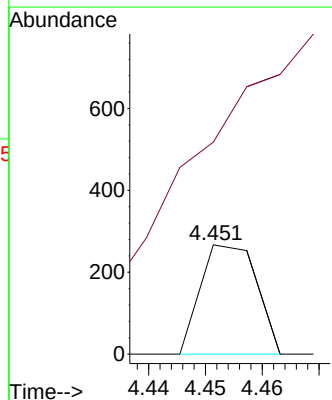
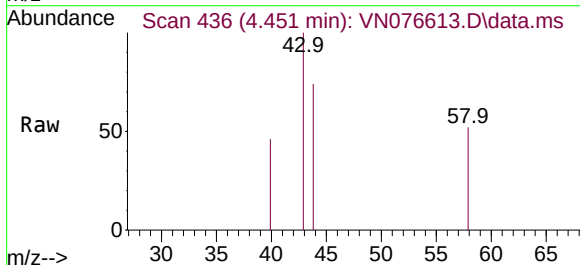
Instrument :
MSVOA_N
ClientSampleId :
14B-4

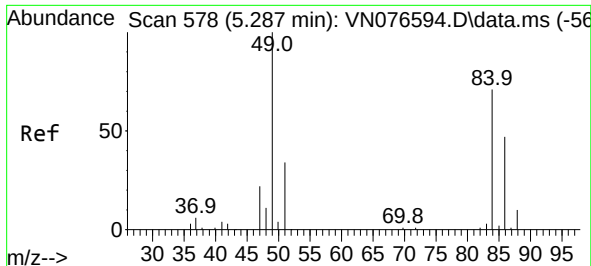
Tgt Ion:128 Resp: 27443
Ion Ratio Lower Upper
128 100
49 179.6 0.0 492.0
130 121.2 0.0 313.3



#15
Acetone
Concen: 0.338 ug/l
RT: 4.451 min Scan# 436
Delta R.T. -0.002 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

Tgt Ion: 58 Resp: 184
Ion Ratio Lower Upper
58 100
43 0.0 232.2 348.4#





#18

Methylene Chloride

Concen: 0.277 ug/l

RT: 5.292 min Scan# 51

Delta R.T. -0.008 min

Lab File: VN076613.D

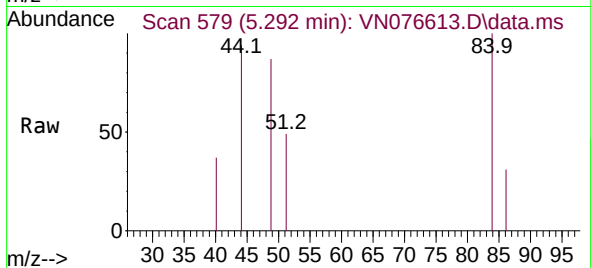
Acq: 10 Feb 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

14B-4



Tgt Ion: 84 Resp: 1004

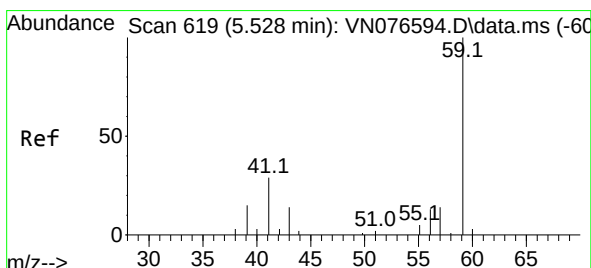
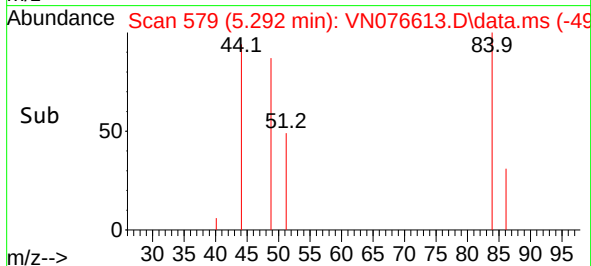
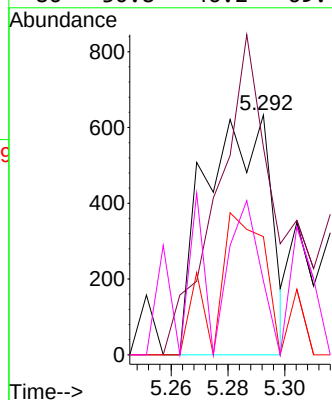
Ion Ratio Lower Upper

84 100

49 61.6 99.6 149.4#

51 49.3 28.2 42.2#

86 30.8 46.2 69.4#



#23

tert-Butyl Alcohol

Concen: 0.524 ug/l

RT: 5.551 min Scan# 623

Delta R.T. -0.008 min

Lab File: VN076613.D

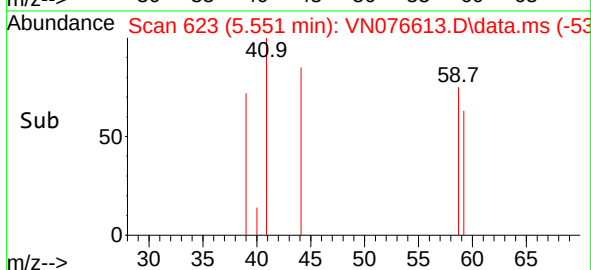
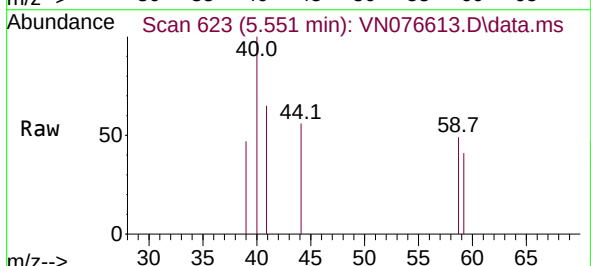
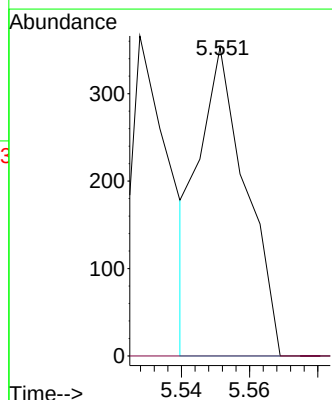
Acq: 10 Feb 2023 16:45

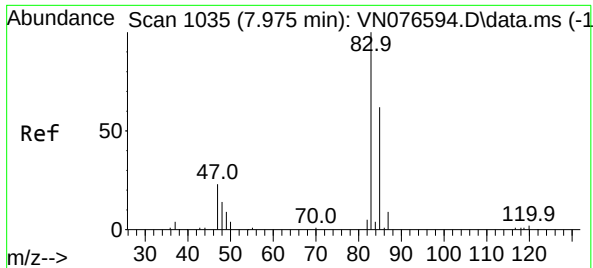
Tgt Ion: 59 Resp: 331

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.4#

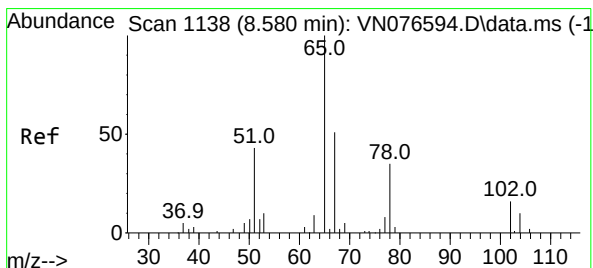
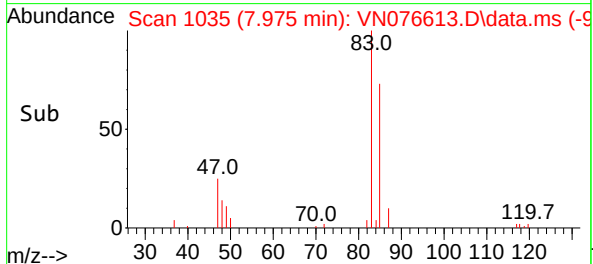
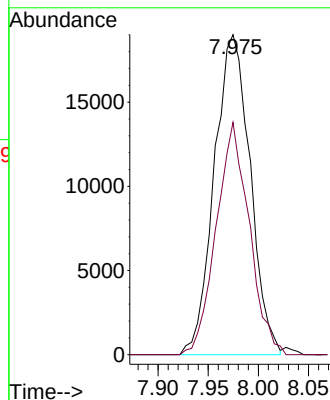
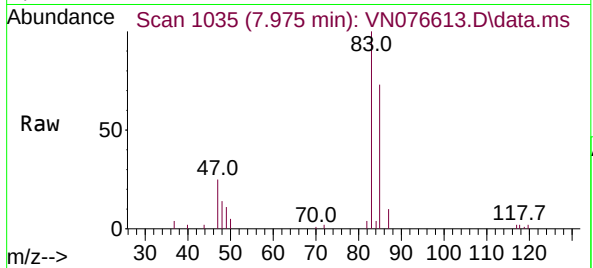




#25
Chloroform
Concen: 6.500 ug/l
RT: 7.975 min Scan# 1139
Delta R.T. -0.002 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

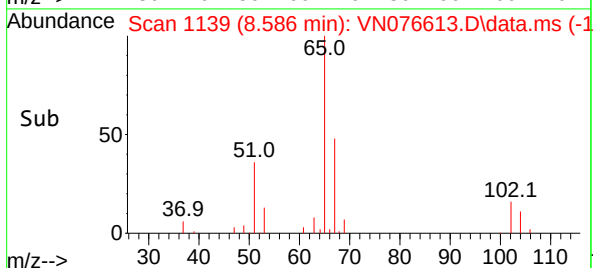
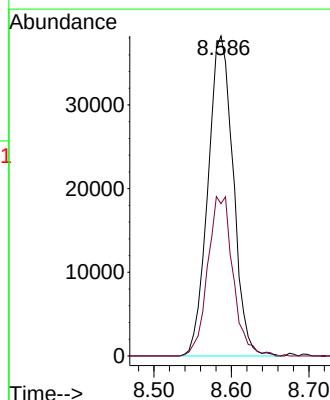
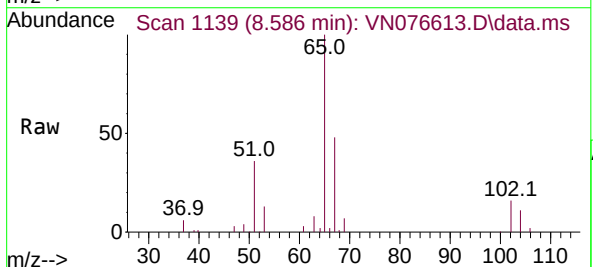
Instrument :
MSVOA_N
ClientSampleId :
14B-4

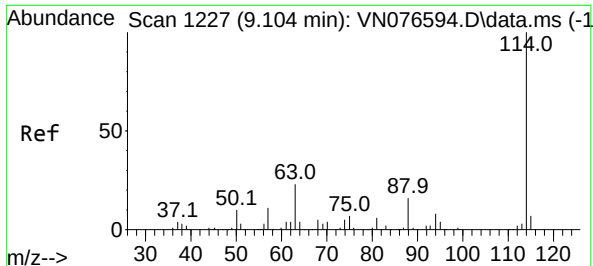
Tgt Ion: 83 Resp: 47280
Ion Ratio Lower Upper
83 100
85 72.6 53.6 80.4



#27
1,2-Dichloroethane-d4
Concen: 26.702 ug/l
RT: 8.586 min Scan# 1139
Delta R.T. -0.002 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

Tgt Ion: 65 Resp: 86367
Ion Ratio Lower Upper
65 100
67 50.0 45.2 67.8

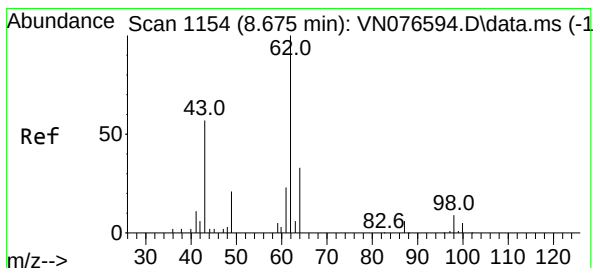
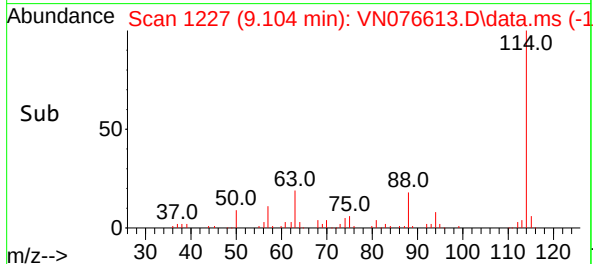
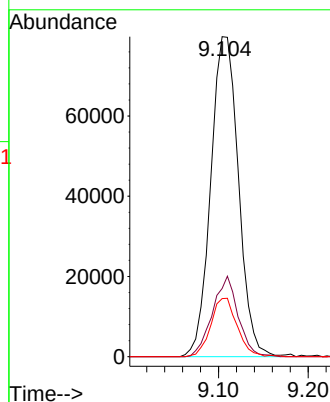
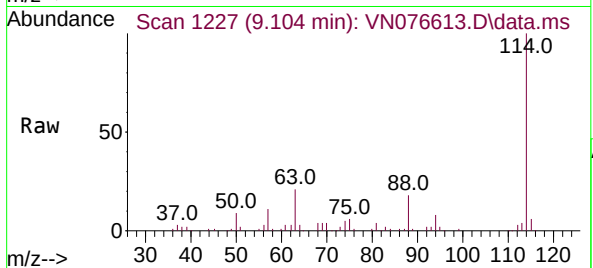




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.104 min Scan# 11
Delta R.T. -0.002 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

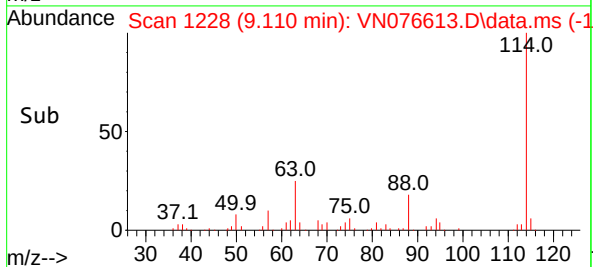
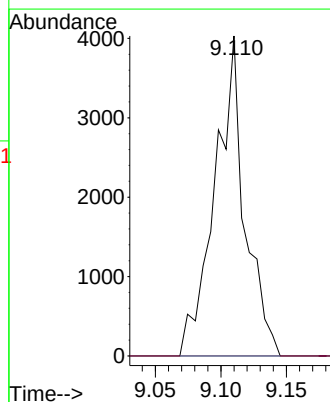
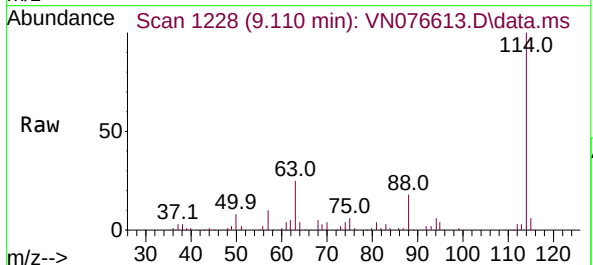
Instrument :
MSVOA_N
ClientSampleId :
14B-4

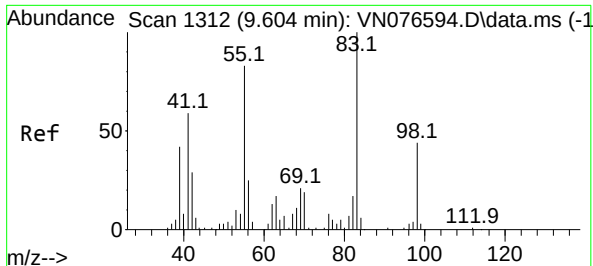
Tgt Ion:114 Resp: 171181
Ion Ratio Lower Upper
114 100
63 23.3 16.6 25.0
88 17.3 12.2 18.4



#36
1,2-Dichloroethane
Concen: 1.227 ug/l
RT: 9.110 min Scan# 1228
Delta R.T. 0.427 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

Tgt Ion: 62 Resp: 6404
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.2#





#38

Methylcyclohexane

Concen: 0.596 ug/l

RT: 9.880 min Scan# 1359

Delta R.T. 0.274 min

Lab File: VN076613.D

Acq: 10 Feb 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

14B-4

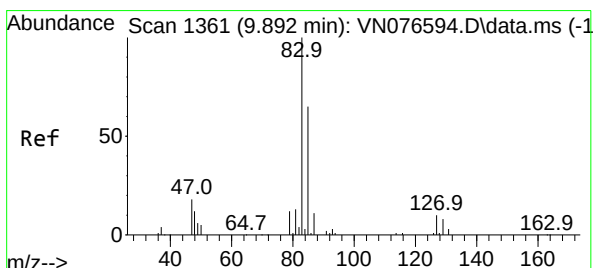
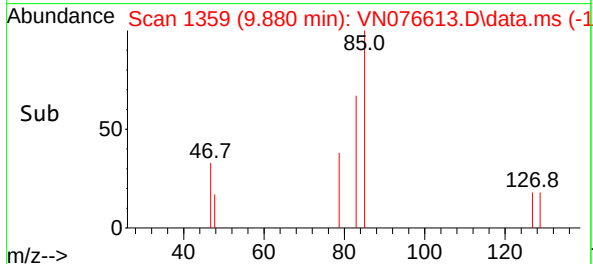
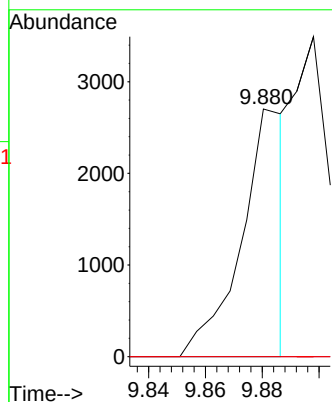
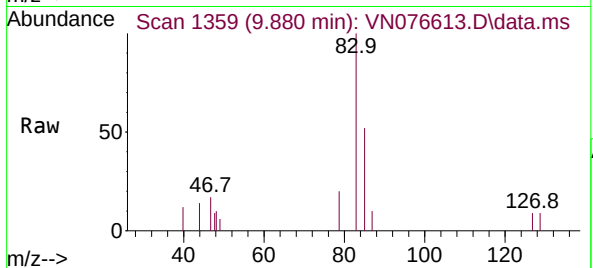
Tgt Ion: 83 Resp: 2923

Ion Ratio Lower Upper

83 100

55 0.0 37.4 112.2#

98 0.0 24.5 73.5#



#41

Bromodichloromethane

Concen: 0.650 ug/l

RT: 9.880 min Scan# 1359

Delta R.T. -0.008 min

Lab File: VN076613.D

Acq: 10 Feb 2023 16:45

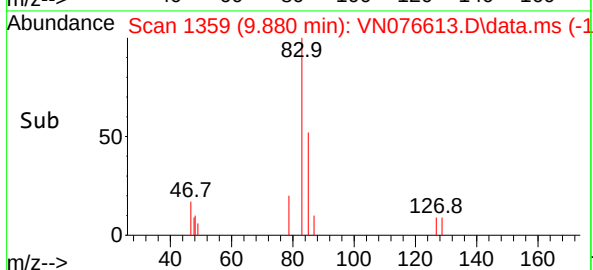
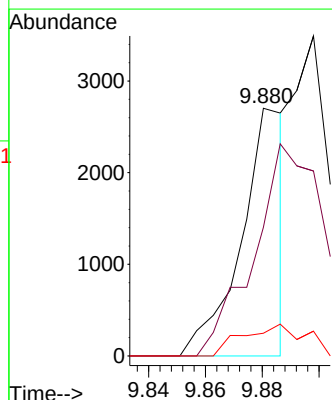
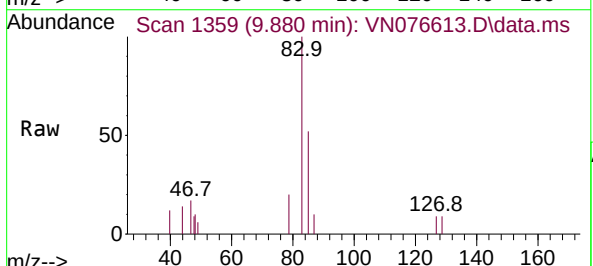
Tgt Ion: 83 Resp: 2923

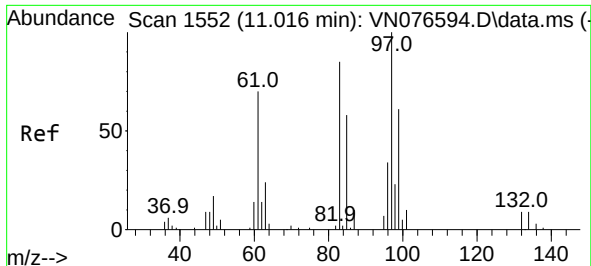
Ion Ratio Lower Upper

83 100

85 51.9 50.2 75.4

127 9.1 5.1 7.7#





#50

1,1,2-Trichloroethane

Concen: 2.319 ug/l

RT: 10.575 min Scan# 14

Delta R.T. -0.444 min

Lab File: VN076613.D

Acq: 10 Feb 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

14B-4

Tgt Ion: 97 Resp: 6731

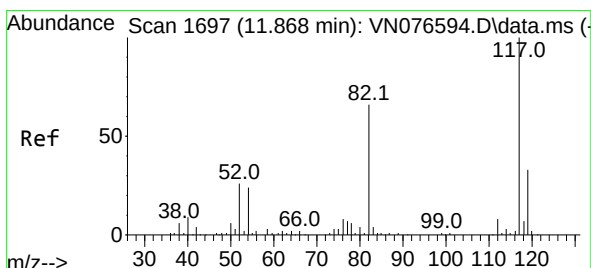
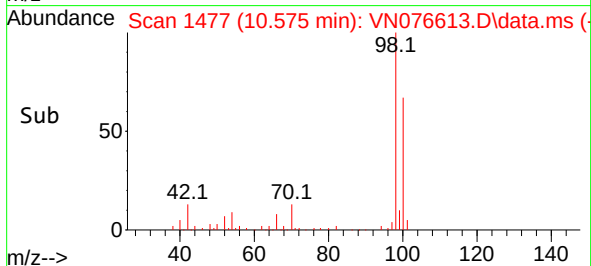
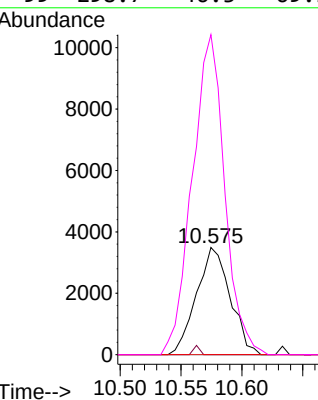
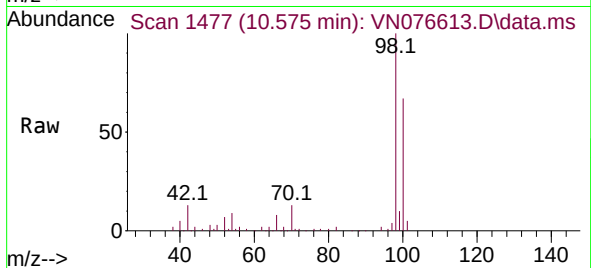
Ion Ratio Lower Upper

97 100

83 0.0 69.2 103.8#

85 0.0 41.4 62.2#

99 298.7 46.3 69.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.869 min Scan# 1697

Delta R.T. -0.002 min

Lab File: VN076613.D

Acq: 10 Feb 2023 16:45

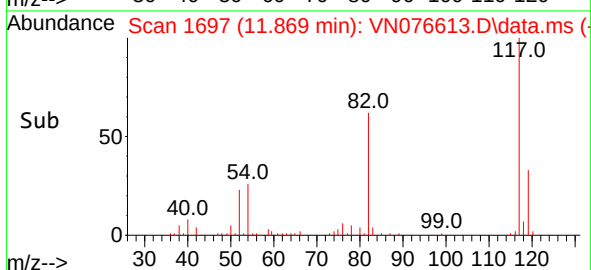
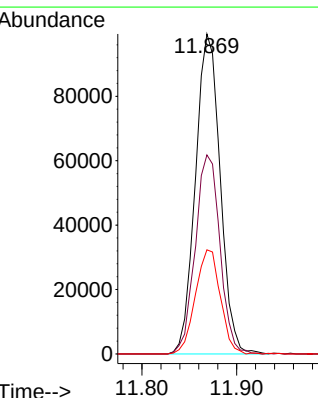
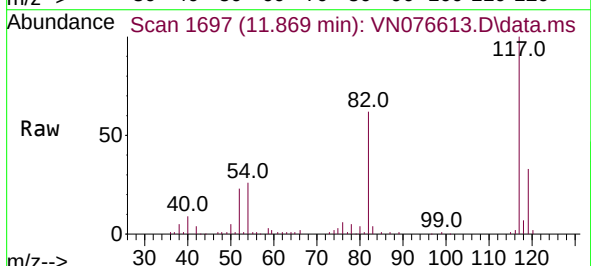
Tgt Ion: 117 Resp: 180261

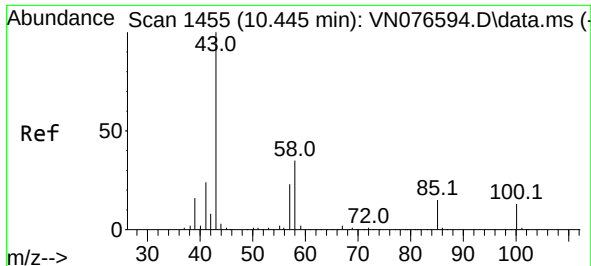
Ion Ratio Lower Upper

117 100

82 62.0 44.6 67.0

119 32.7 25.6 38.4

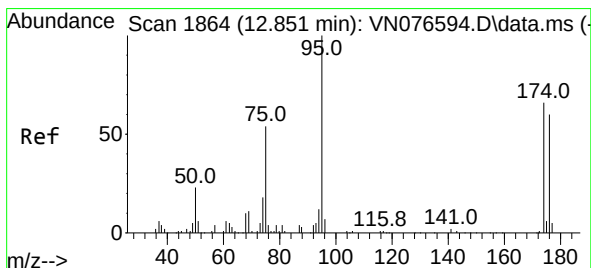
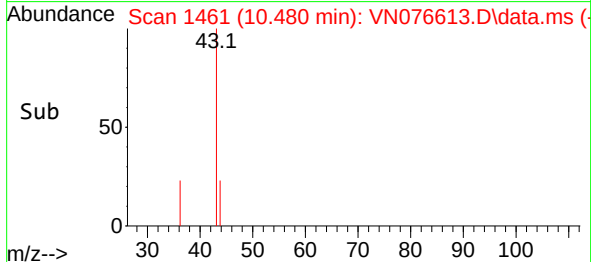
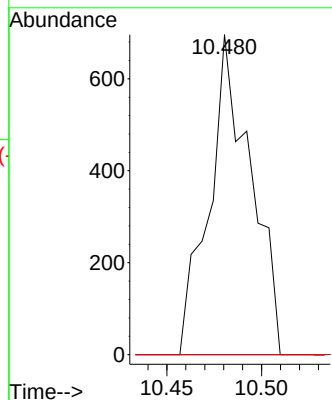
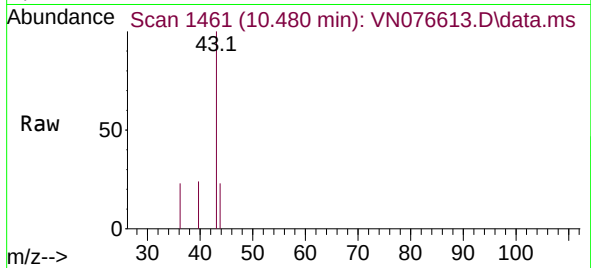




#58
4-Methyl-2-Pentanone
Concen: 0.211 ug/l
RT: 10.480 min Scan# 1455
Delta R.T. 0.033 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

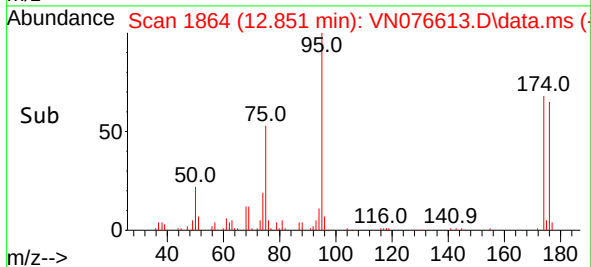
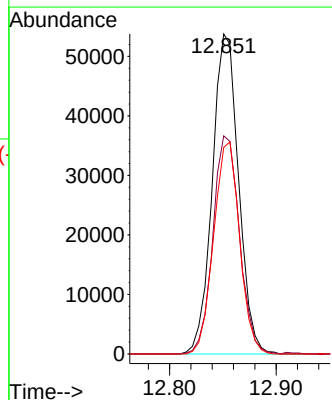
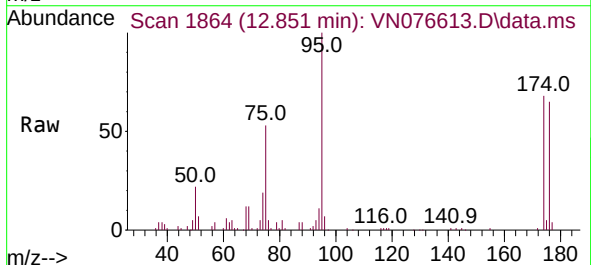
Instrument :
MSVOA_N
ClientSampleId :
14B-4

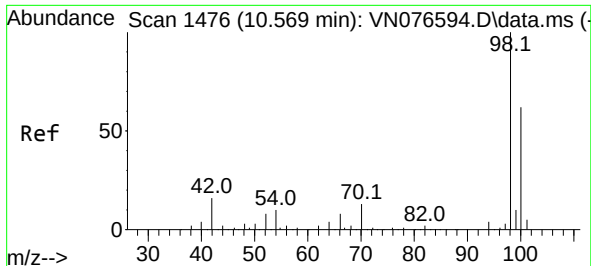
Tgt Ion: 43 Resp: 1061
Ion Ratio Lower Upper
43 100
58 0.0 30.8 46.2#
85 0.0 13.3 19.9#



#60
4-Bromofluorobenzene
Concen: 22.659 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.002 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

Tgt Ion: 95 Resp: 92211
Ion Ratio Lower Upper
95 100
174 68.8 57.8 86.8
176 65.3 57.0 85.4

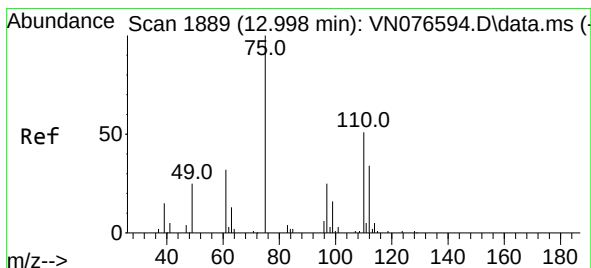
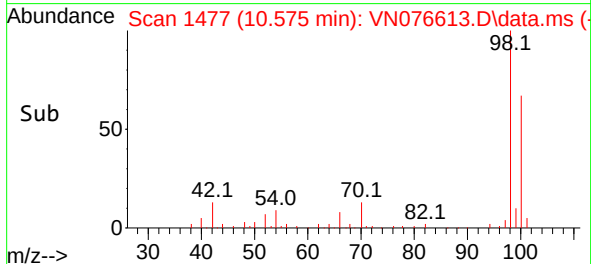
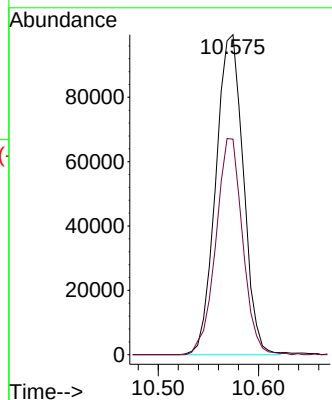
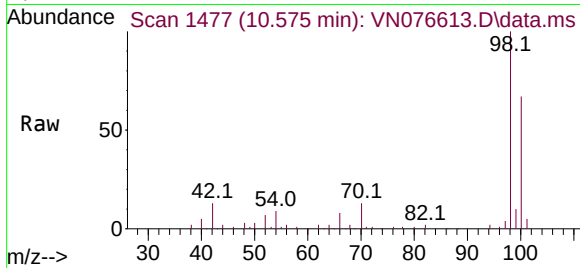




#63
Toluene-d8
Concen: 28.617 ug/l
RT: 10.575 min Scan# 1476
Delta R.T. 0.004 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

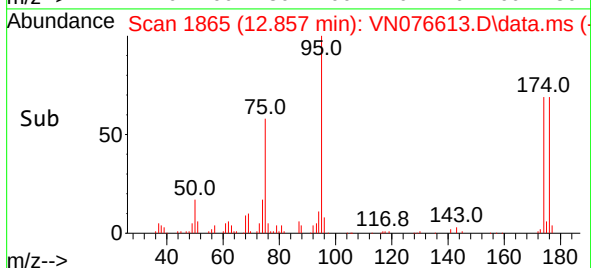
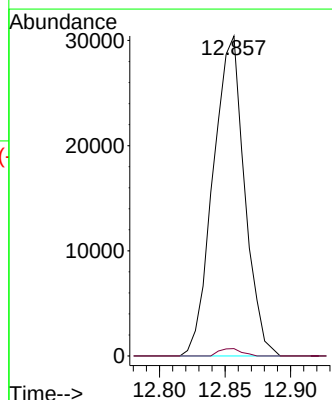
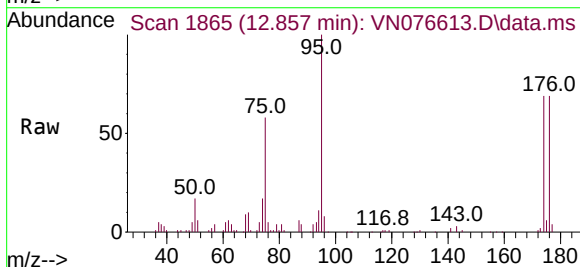
Instrument :
MSVOA_N
ClientSampleId :
14B-4

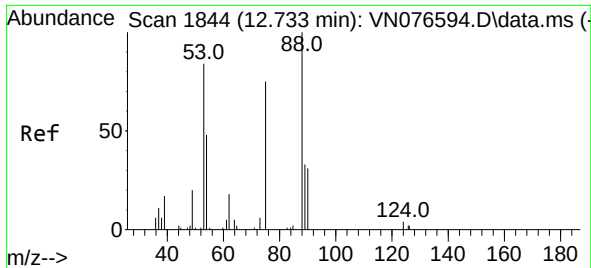
Tgt Ion: 98 Resp: 189407
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 10.990 ug/l
RT: 12.857 min Scan# 1865
Delta R.T. -0.137 min
Lab File: VN076613.D
Acq: 10 Feb 2023 16:45

Tgt Ion: 75 Resp: 50790
Ion Ratio Lower Upper
75 100
77 1.6 0.0 372.4





#77

t-1,4-Dichloro-2-butene

Concen: 36.436 ug/l

RT: 12.857 min Scan# 11

Delta R.T. 0.122 min

Lab File: VN076613.D

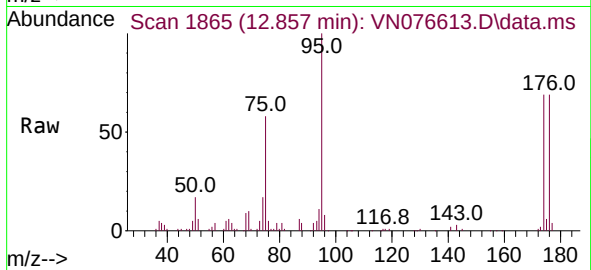
Acq: 10 Feb 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

14B-4



Tgt Ion: 75 Resp: 50790

Ion Ratio Lower Upper

75 100

53 0.0 43.3 129.9#

89 0.0 21.1 63.1#

