

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102523\
 Data File : VN079687.D
 Acq On : 25 Oct 2023 17:25
 Operator : JC\MD
 Sample : 05054-01RE 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 26 01:38:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

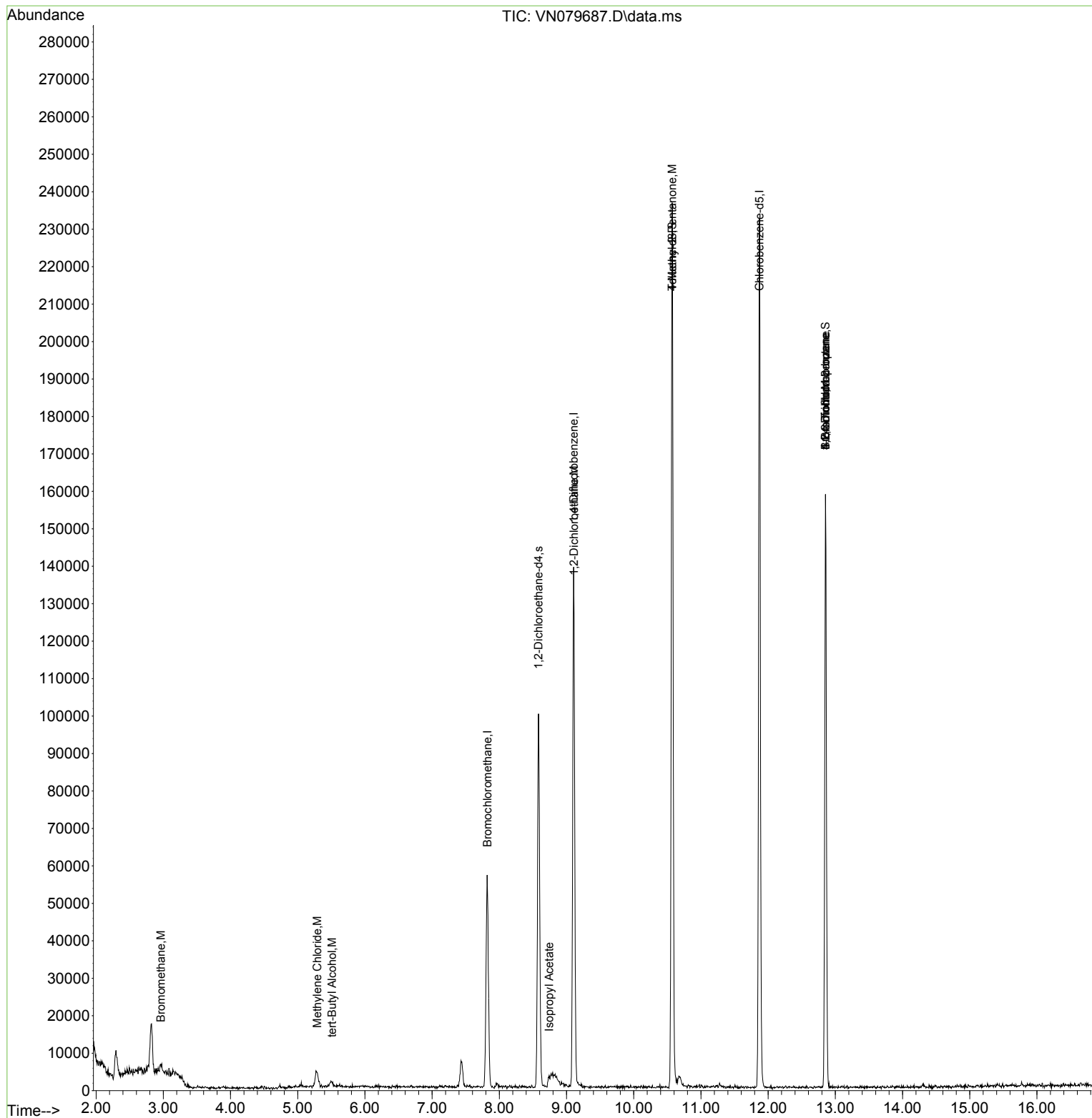
Internal Standards						
1) Bromochloromethane	7.824	128	18041	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	112470	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	131662	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	79080	30.830	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.767%	
60) 4-Bromofluorobenzene	12.853	95	52473	21.794	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 72.633%	
63) Toluene-d8	10.571	98	162993	28.890	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 96.300%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	738	0.325	ug/l	90
18) Methylene Chloride	5.289	84	2229	0.745	ug/l #	83
23) tert-Butyl Alcohol	5.512	59	351	0.748	ug/l #	100
36) 1,2-Dichloroethane	9.112	62	4617	1.295	ug/l #	75
44) Isopropyl Acetate	8.741	43	1439	0.261	ug/l #	6
56) Bromoform	12.853	173	436	0.269	ug/l #	1
58) 4-Methyl-2-Pentanone	10.571	43	656	0.214	ug/l #	1
72) 1,2,3-Trichloropropane	12.853	75	30188	9.938	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	30188	32.561	ug/l #	7

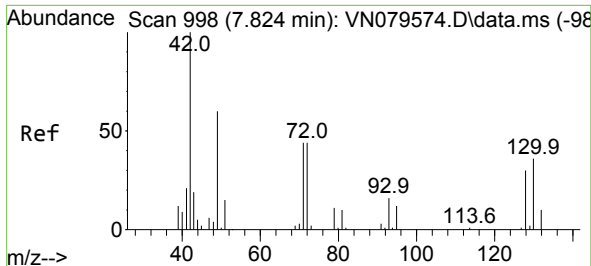
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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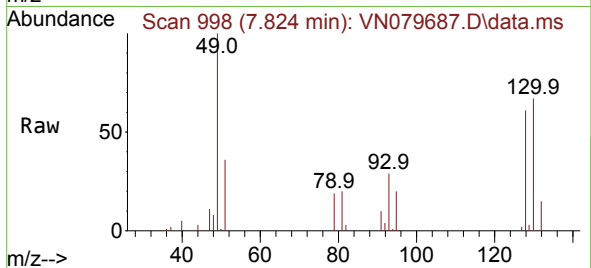
Quant Time: Oct 26 01:38:41 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration



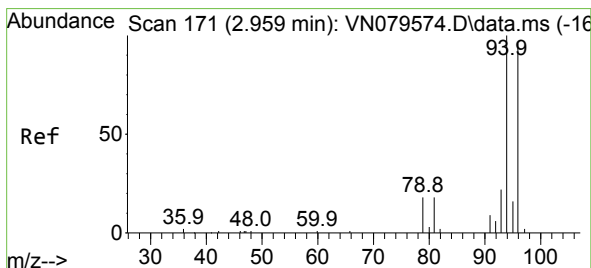
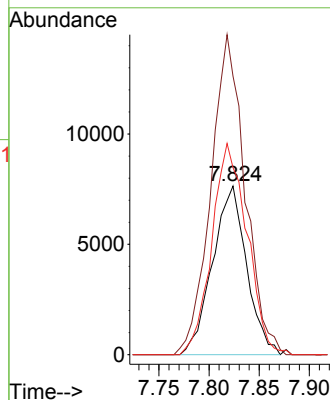
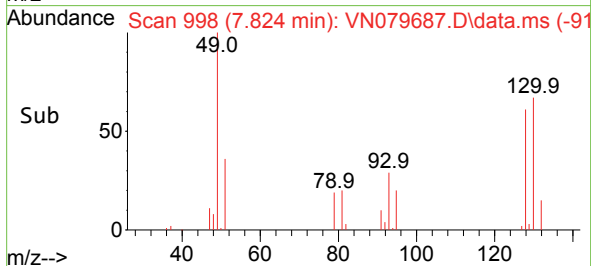


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

Instrument :
MSVOA_N
ClientSampleId :

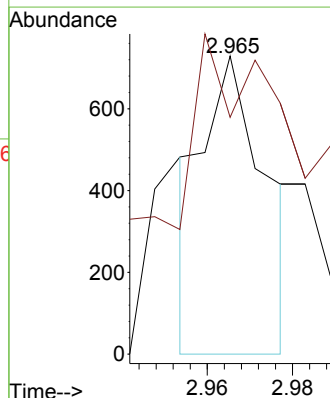
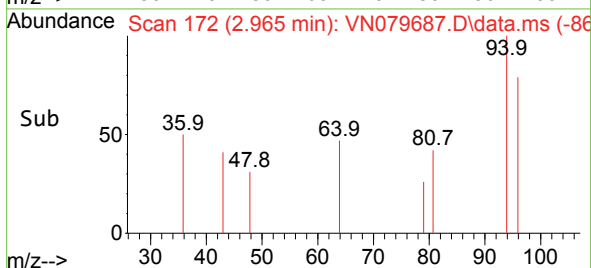
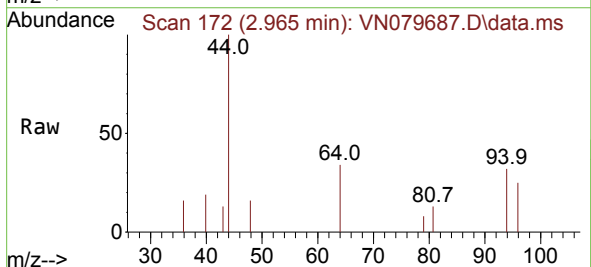


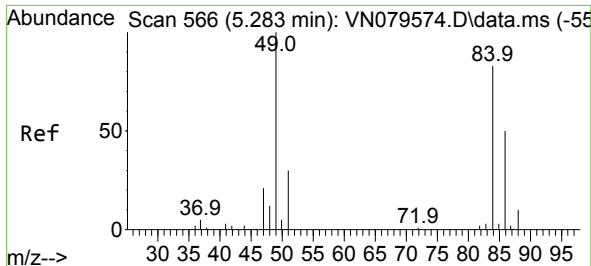
Tgt Ion:128 Resp: 18041
Ion Ratio Lower Upper
128 100
49 190.7 0.0 468.5
130 129.7 0.0 320.7



#5
Bromomethane
Concen: 0.325 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.006 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

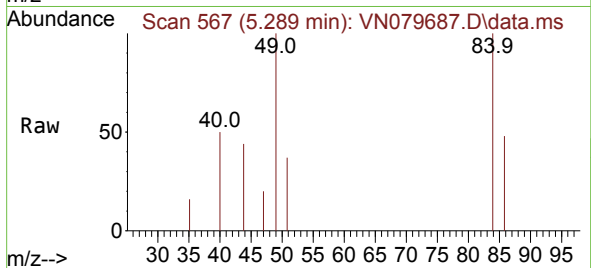
Tgt Ion: 94 Resp: 738
Ion Ratio Lower Upper
94 100
96 87.5 77.8 116.6





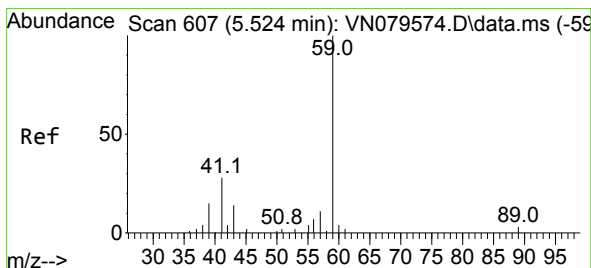
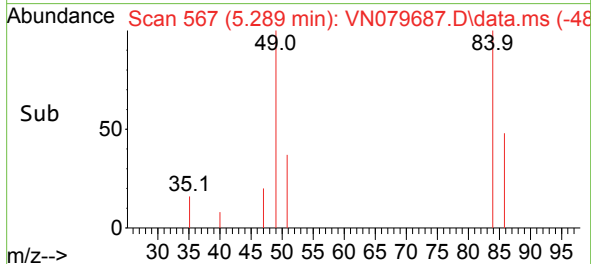
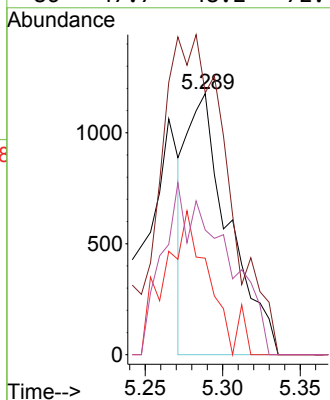
#18
Methylene Chloride
Concen: 0.745 ug/l
RT: 5.289 min Scan# 501
Delta R.T. 0.006 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 2229

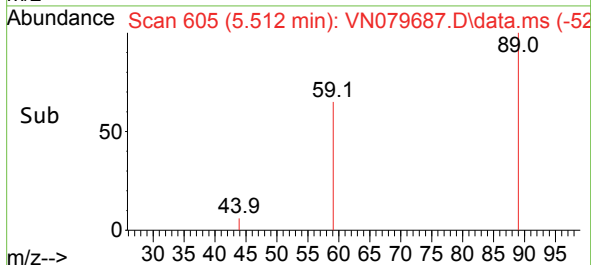
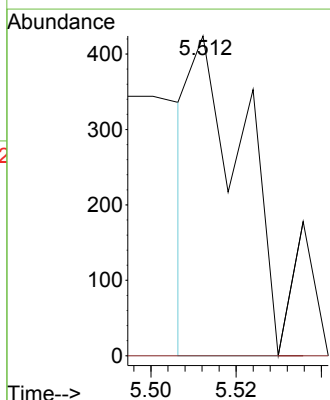
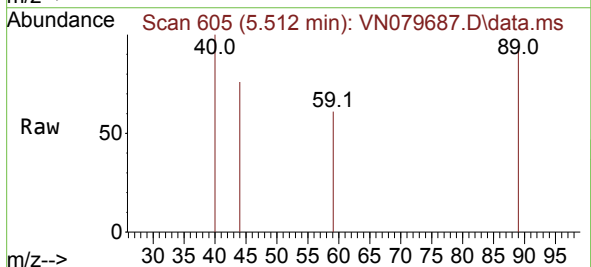
Ion	Ratio	Lower	Upper
84	100		
49	100.3	100.9	151.3#
51	37.0	29.4	44.2
86	47.7	48.2	72.4#

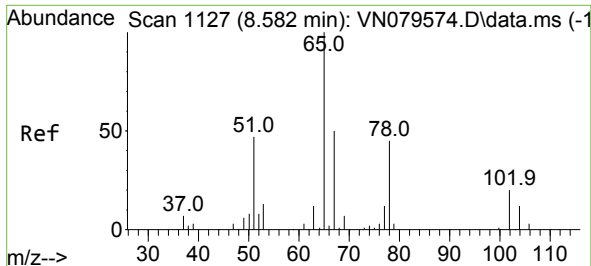


#23
tert-Butyl Alcohol
Concen: 0.748 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

Tgt Ion: 59 Resp: 351

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 30.830 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079687.D

Acq: 25 Oct 2023 17:25

Instrument :

MSVOA_N

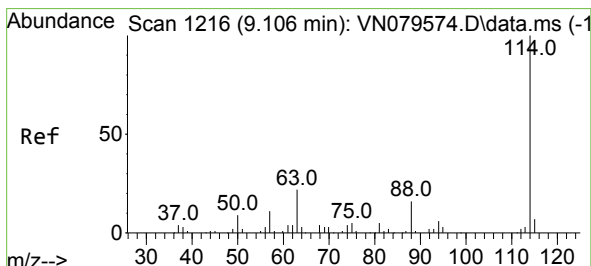
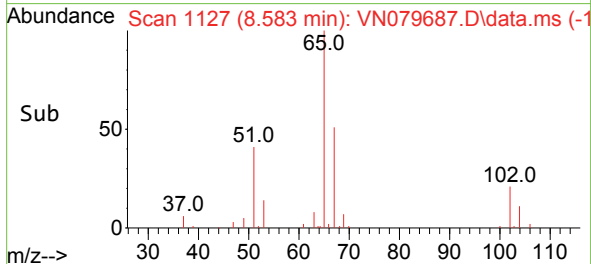
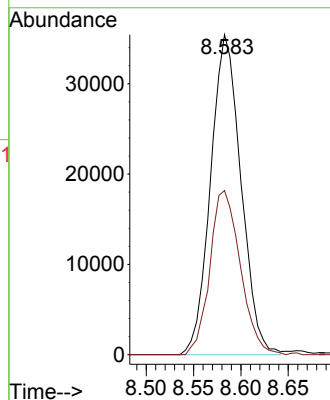
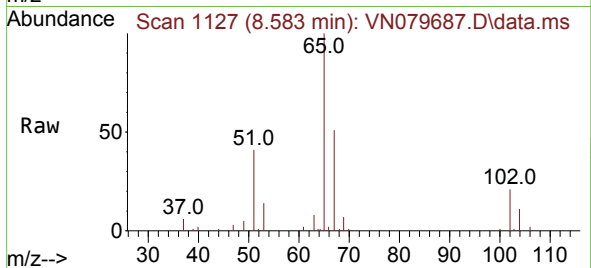
ClientSampleId :

Tgt Ion: 65 Resp: 79080

Ion Ratio Lower Upper

65 100

67 51.4 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079687.D

Acq: 25 Oct 2023 17:25

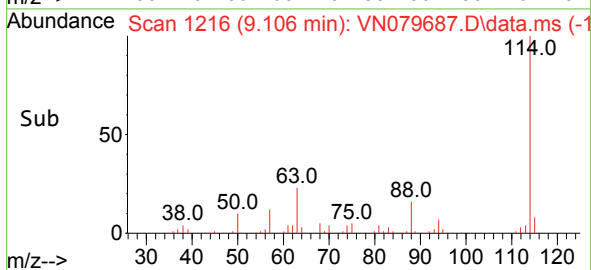
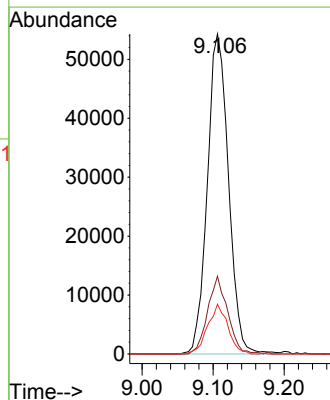
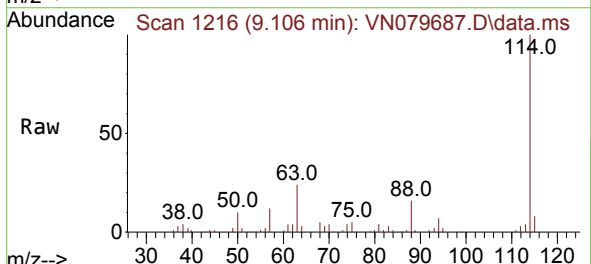
Tgt Ion: 114 Resp: 112470

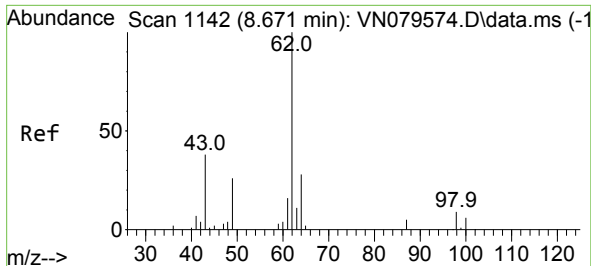
Ion Ratio Lower Upper

114 100

63 22.8 18.1 27.1

88 14.8 12.2 18.2





#36

1,2-Dichloroethane

Concen: 1.295 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.441 min

Lab File: VN079687.D

Acq: 25 Oct 2023 17:25

Instrument :

MSVOA_N

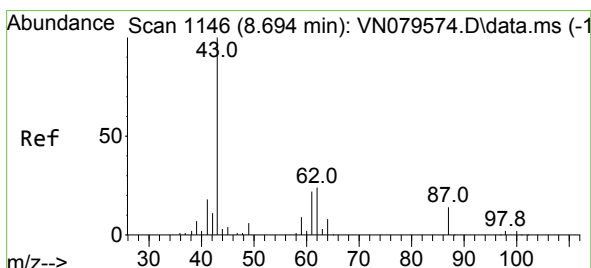
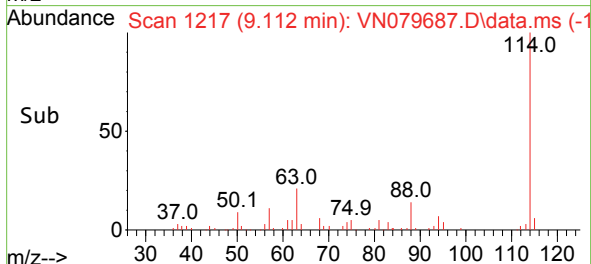
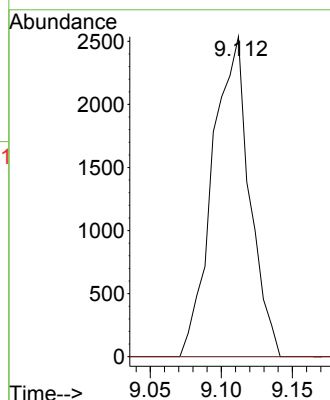
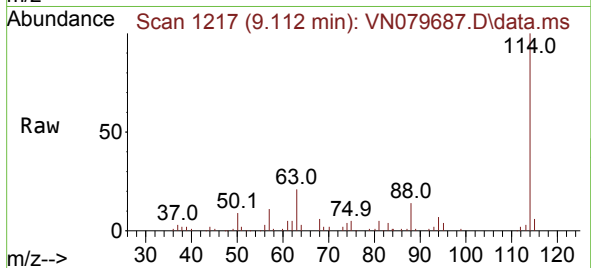
ClientSampleId :

Tgt Ion: 62 Resp: 4617

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#44

Isopropyl Acetate

Concen: 0.261 ug/l

RT: 8.741 min Scan# 1154

Delta R.T. 0.047 min

Lab File: VN079687.D

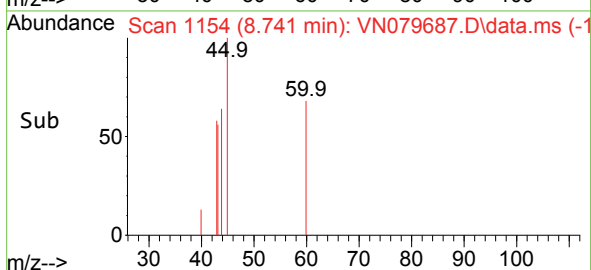
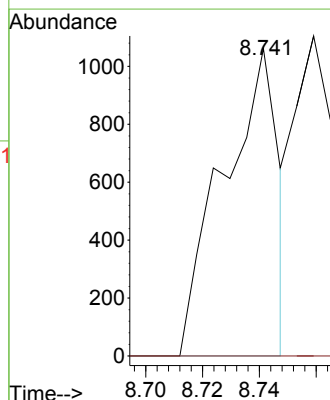
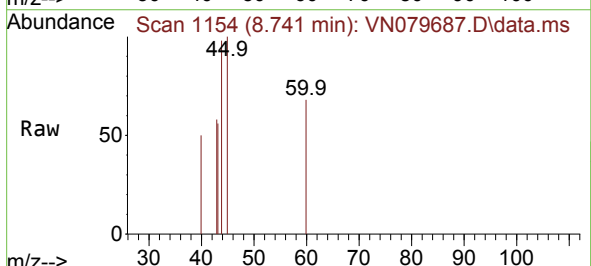
Acq: 25 Oct 2023 17:25

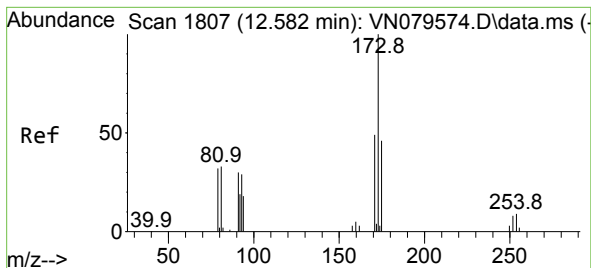
Tgt Ion: 43 Resp: 1439

Ion Ratio Lower Upper

43 100

61 72.8 20.3 30.5#





#56

Bromoform

Concen: 0.269 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

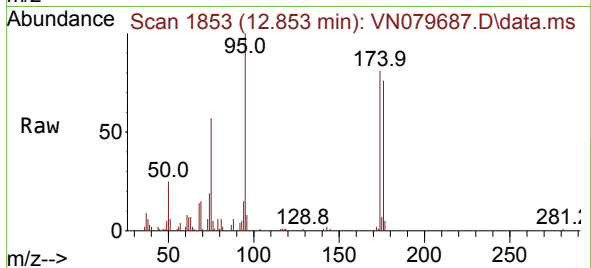
Lab File: VN079687.D

Acq: 25 Oct 2023 17:25

Instrument :

MSVOA_N

ClientSampleId :



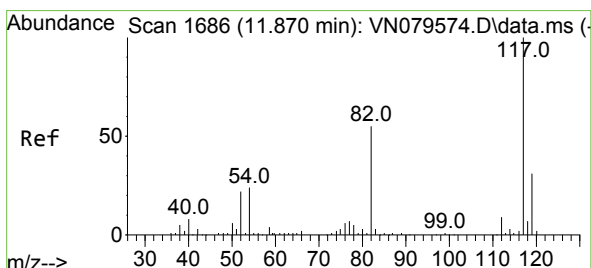
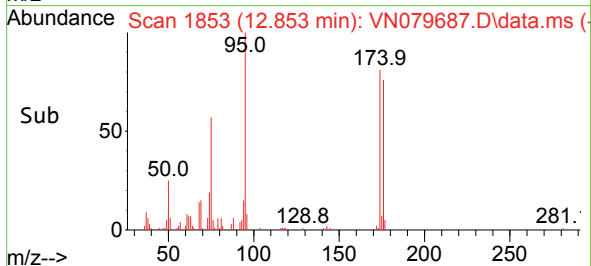
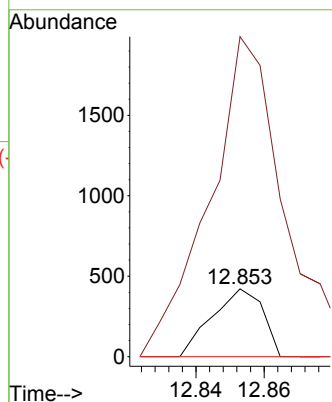
Tgt Ion:173 Resp: 436

Ion Ratio Lower Upper

173 100

175 688.1 37.9 56.9#

254 0.0 7.3 10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN079687.D

Acq: 25 Oct 2023 17:25

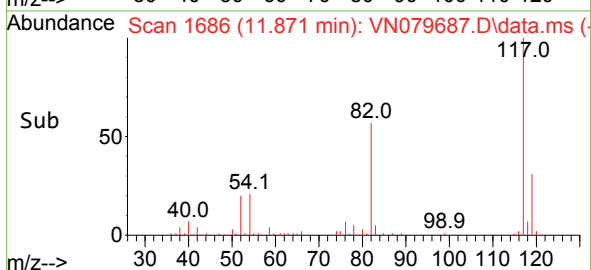
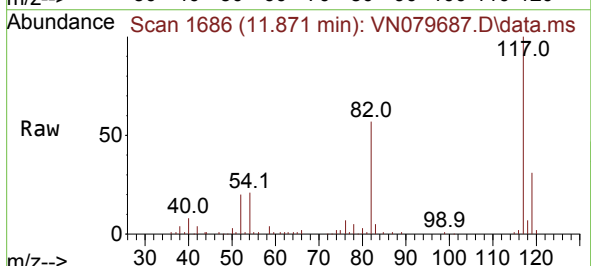
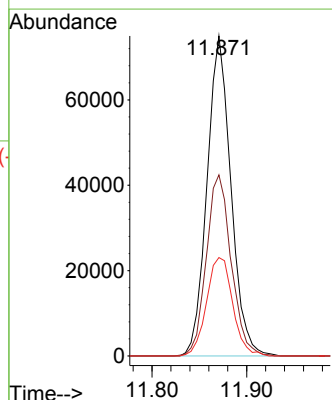
Tgt Ion:117 Resp: 131662

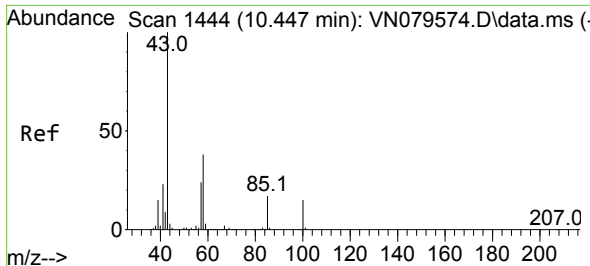
Ion Ratio Lower Upper

117 100

82 58.8 46.2 69.2

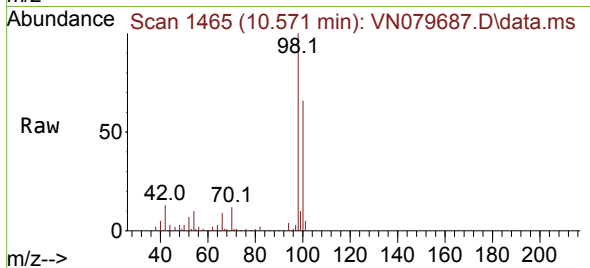
119 33.6 25.2 37.8



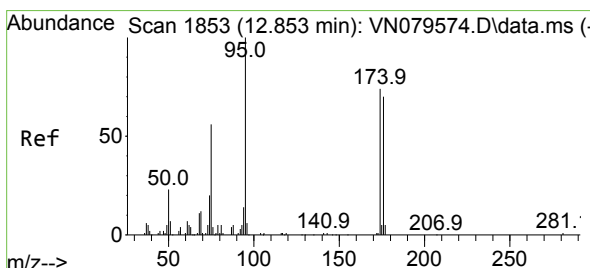
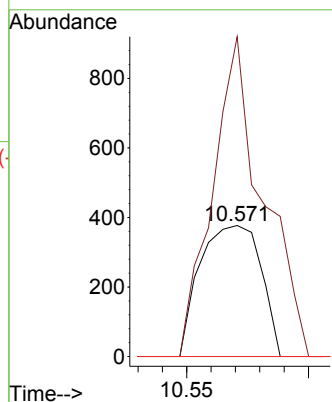
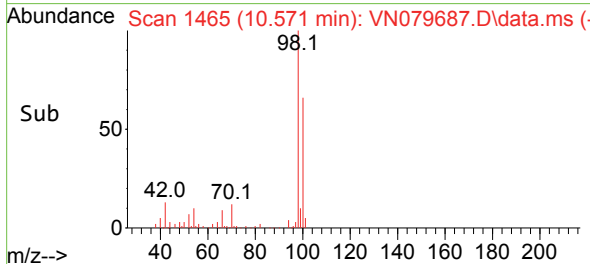


#58
4-Methyl-2-Pentanone
Concen: 0.214 ug/l
RT: 10.571 min Scan# 1444
Delta R.T. 0.124 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

Instrument :
MSVOA_N
ClientSampleId :

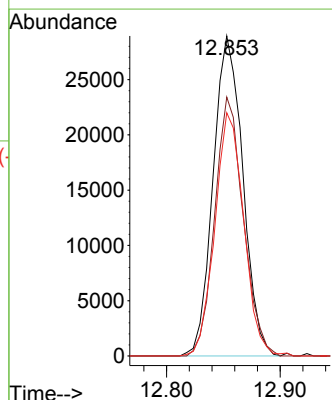
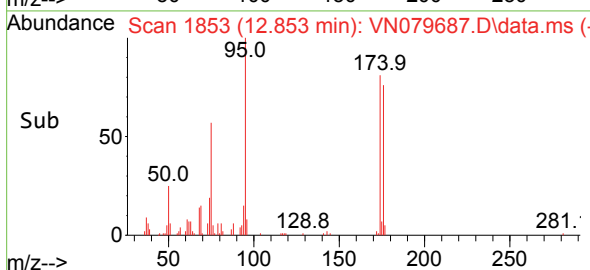
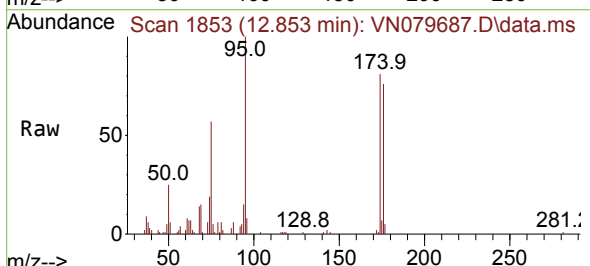


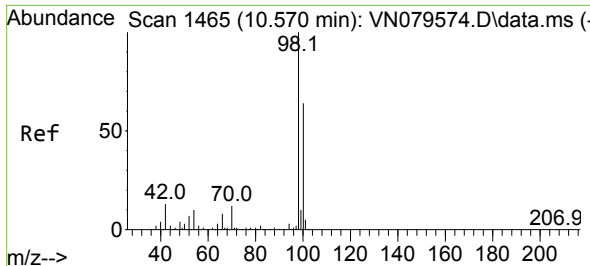
Tgt Ion: 43 Resp: 656
Ion Ratio Lower Upper
43 100
58 171.2 30.4 45.6#
85 0.0 13.2 19.8#



#60
4-Bromofluorobenzene
Concen: 21.794 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

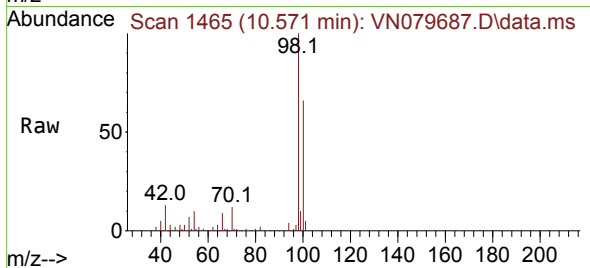
Tgt Ion: 95 Resp: 52473
Ion Ratio Lower Upper
95 100
174 78.0 60.5 90.7
176 74.0 57.2 85.8



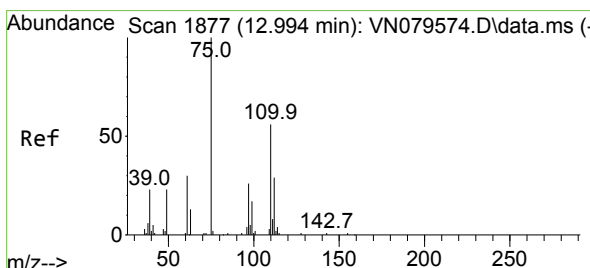
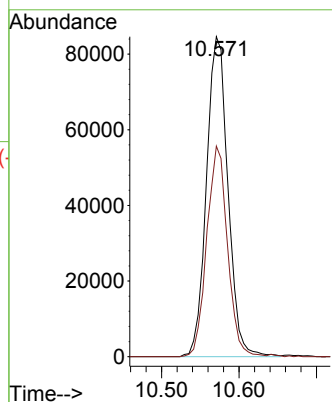
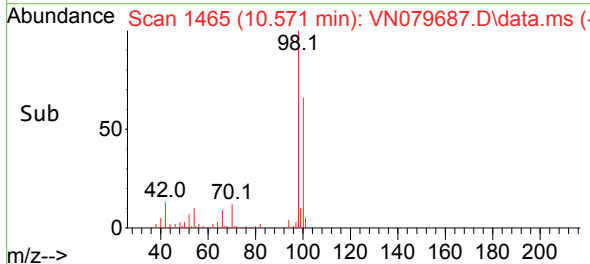


#63
Toluene-d8
Concen: 28.890 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

Instrument :
MSVOA_N
ClientSampleId :

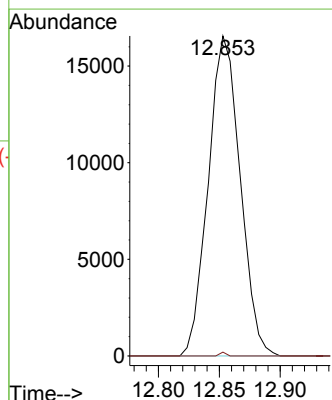
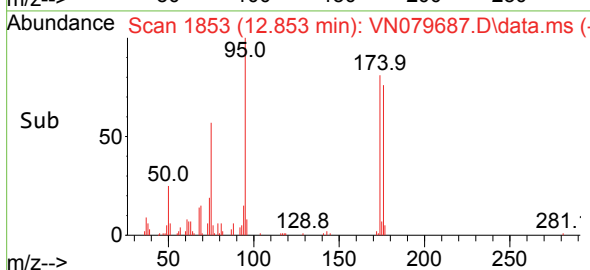
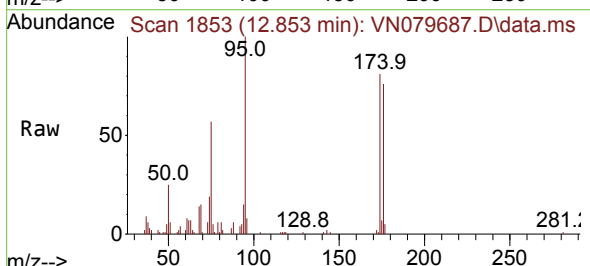


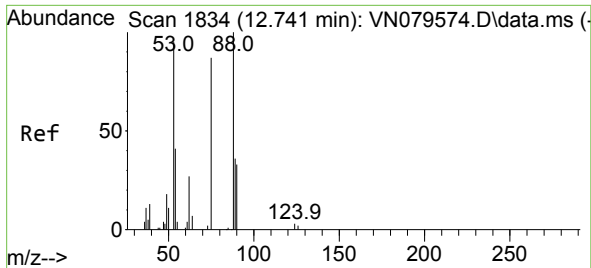
Tgt Ion: 98 Resp: 162993
Ion Ratio Lower Upper
98 100
100 63.4 51.6 77.4



#72
1,2,3-Trichloropropane
Concen: 9.938 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

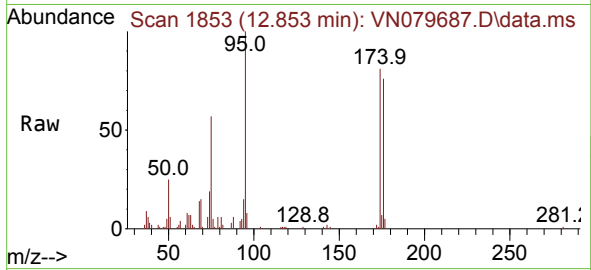
Tgt Ion: 75 Resp: 30188
Ion Ratio Lower Upper
75 100
77 0.0 0.0 338.2





#77
t-1,4-Dichloro-2-butene
Concen: 32.561 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN079687.D
Acq: 25 Oct 2023 17:25

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 30188
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#

