

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092624\
 Data File : VN084179.D
 Acq On : 26 Sep 2024 16:16
 Operator : JC\MD
 Sample : P4176-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 27 01:10:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

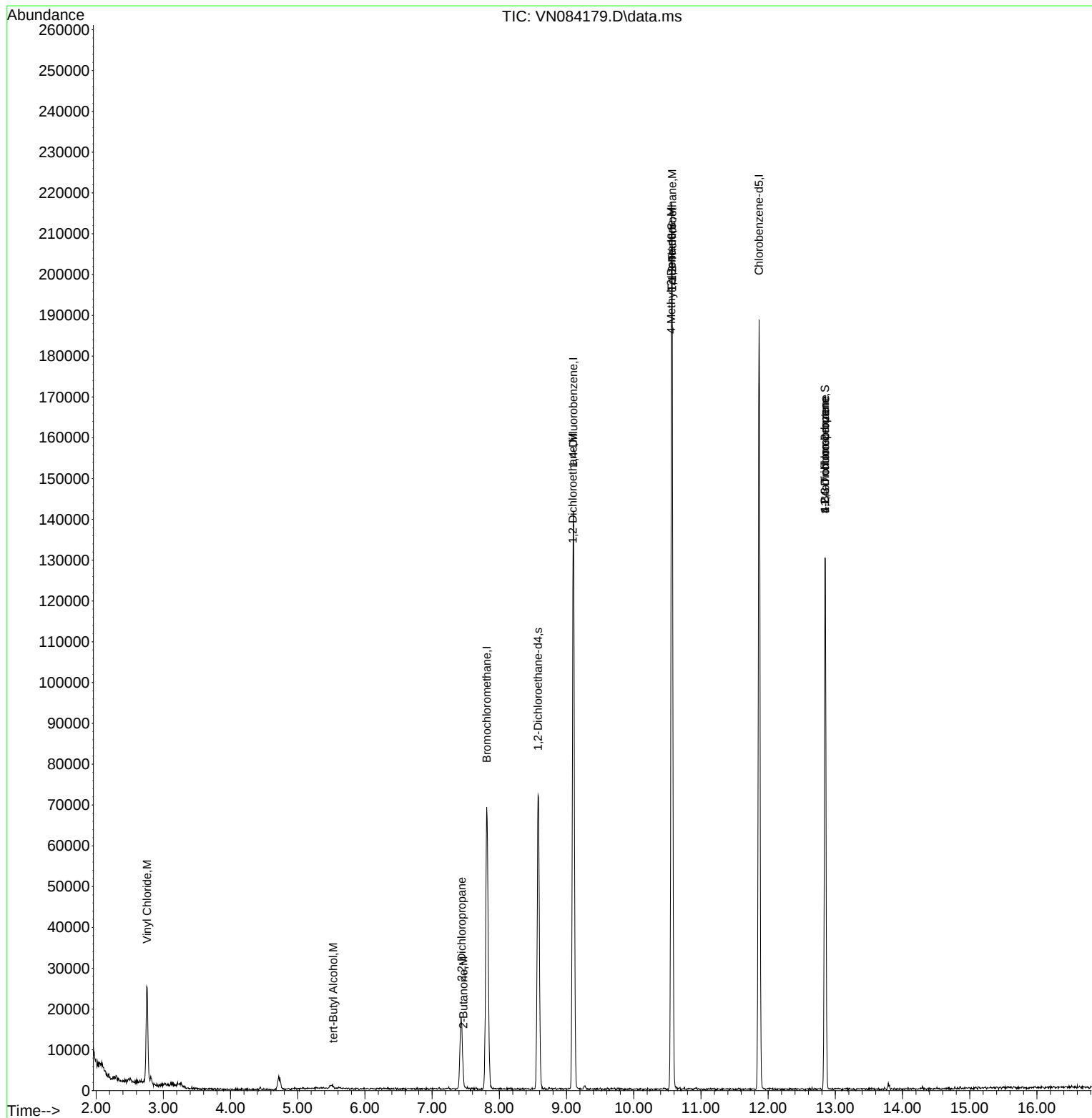
Internal Standards						
1) Bromochloromethane	7.812	128	23497	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	116485	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	105894	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	62215	28.967	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.567%
60) 4-Bromofluorobenzene	12.847	95	43577	23.877	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.600%
63) Toluene-d8	10.565	98	146631	29.905	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.667%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.759	62	589	0.350	ug/l #	55
23) tert-Butyl Alcohol	5.530	59	58	0.222	ug/l #	100
30) 2-Butanone	7.465	43	175	0.201	ug/l #	52
31) 2,2-Dichloropropane	7.441	77	929	0.394	ug/l #	53
36) 1,2-Dichloroethane	9.094	62	4457	2.139	ug/l #	72
50) 1,1,2-Trichloroethane	10.571	97	4922	3.965	ug/l #	1
58) 4-Methyl-2-Pentanone	10.559	43	353	0.210	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	24393	15.662	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	24393	37.053	ug/l #	12

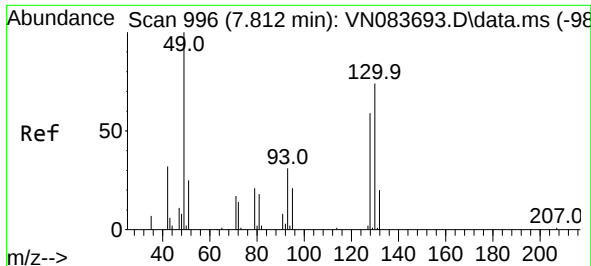
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 27 01:10:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
Response via : Initial Calibration

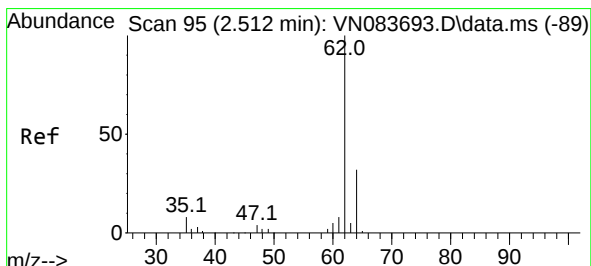
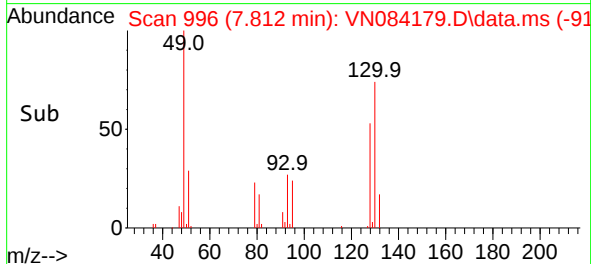
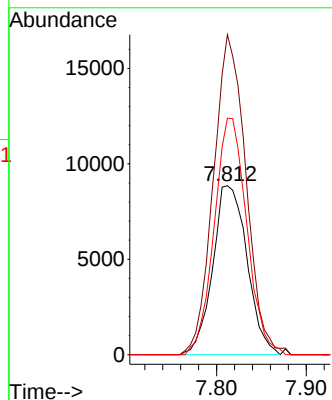
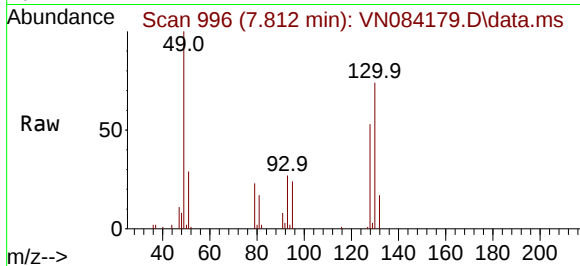




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

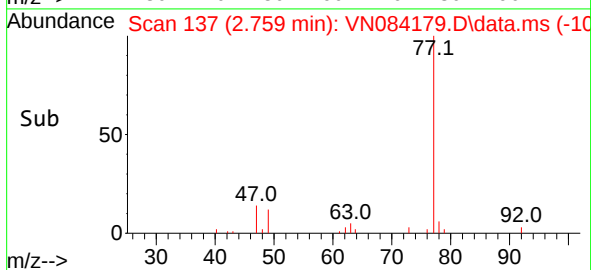
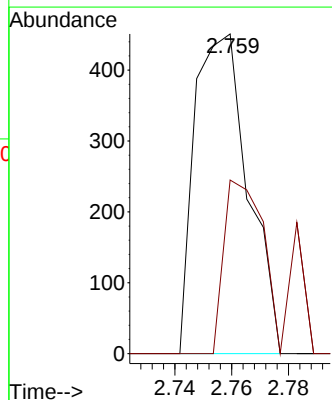
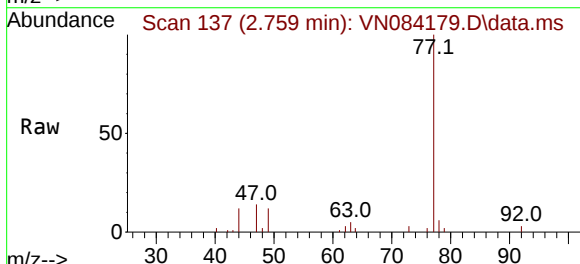
Instrument :
MSVOA_N
ClientSampleId :

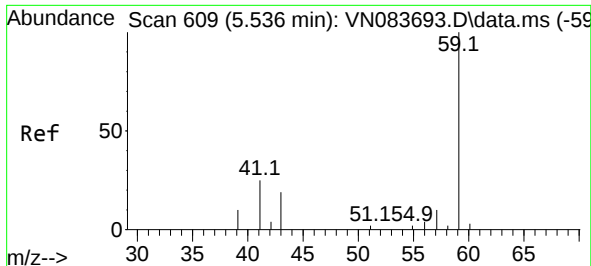
Tgt Ion	Ratio	Lower	Upper
128	100		
49	178.9	0.0	403.7
130	132.9	0.0	323.3



#4
Vinyl Chloride
Concen: 0.350 ug/l
RT: 2.759 min Scan# 137
Delta R.T. 0.247 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

Tgt Ion	Ratio	Lower	Upper
62	100		
64	54.3	24.1	36.1

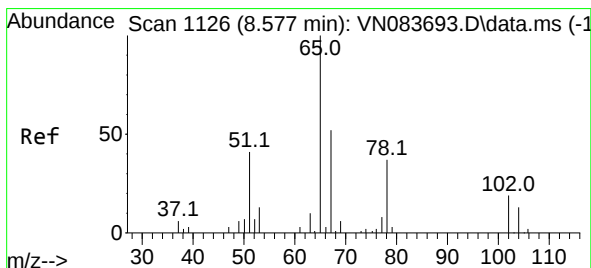
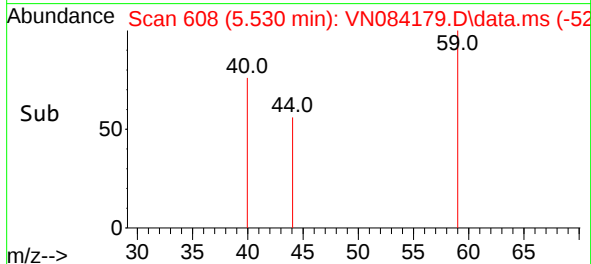
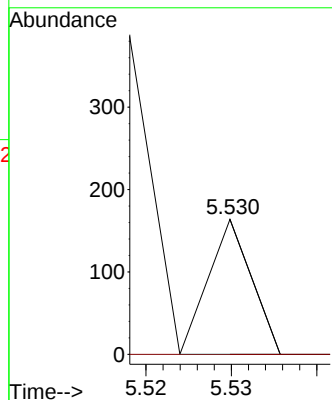
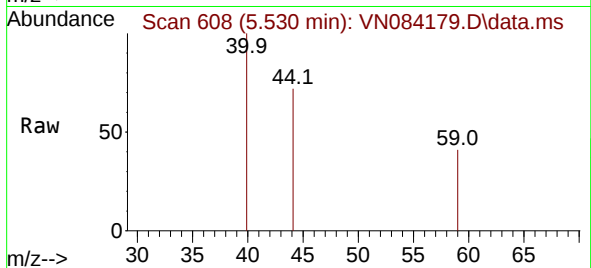




#23
tert-Butyl Alcohol
Concen: 0.222 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

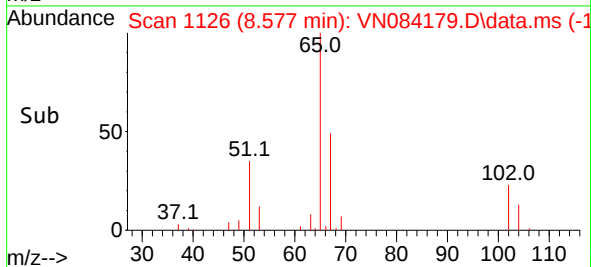
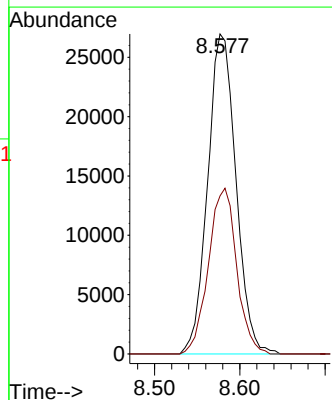
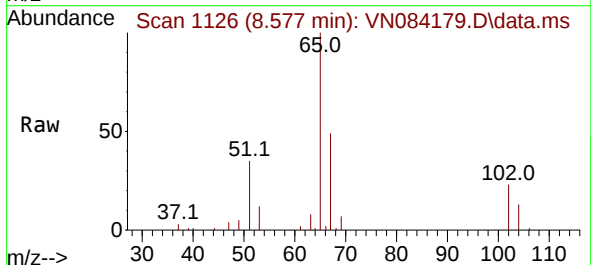
Instrument :
MSVOA_N
ClientSampleId :

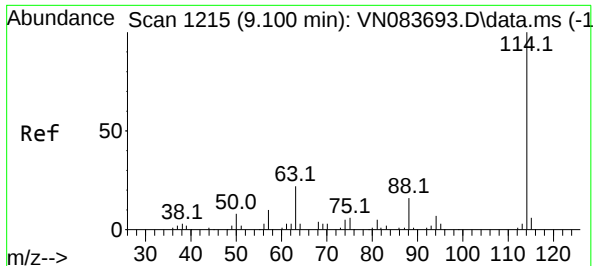
Tgt Ion: 59 Resp: 58
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 28.967 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

Tgt Ion: 65 Resp: 62215
Ion Ratio Lower Upper
65 100
67 51.7 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084179.D

Acq: 26 Sep 2024 16:16

Instrument :

MSVOA_N

ClientSampleId :

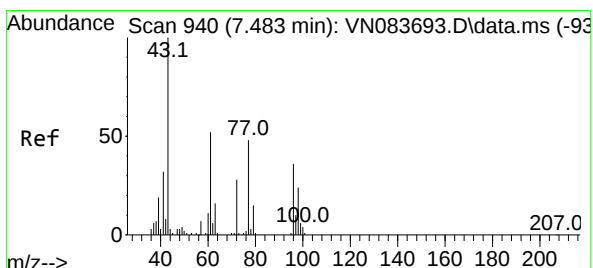
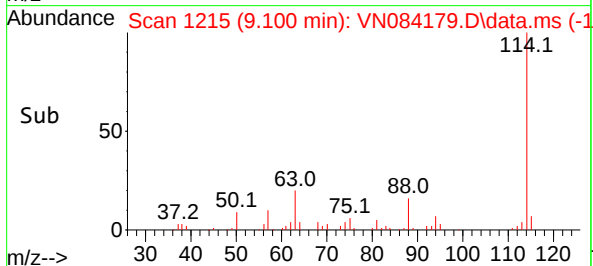
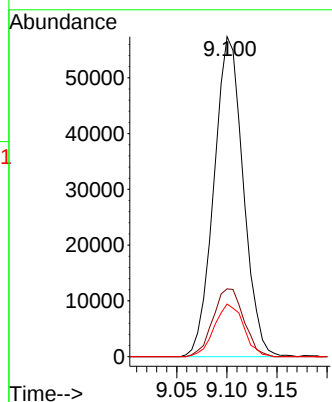
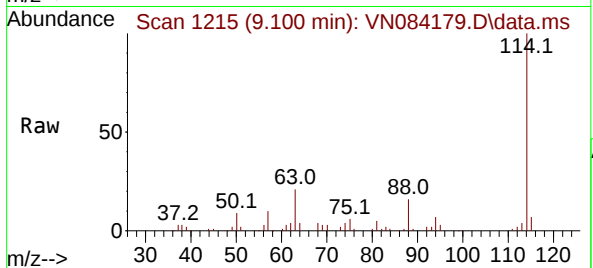
Tgt Ion:114 Resp: 116485

Ion Ratio Lower Upper

114 100

63 22.3 15.9 23.9

88 16.5 12.7 19.1



#30

2-Butanone

Concen: 0.201 ug/l

RT: 7.465 min Scan# 937

Delta R.T. -0.018 min

Lab File: VN084179.D

Acq: 26 Sep 2024 16:16

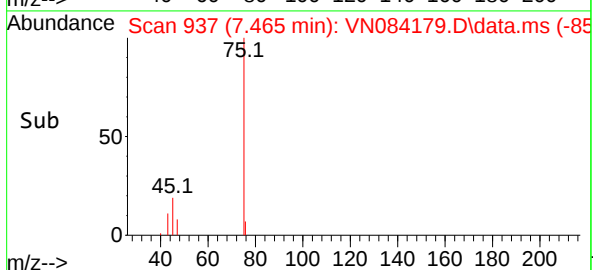
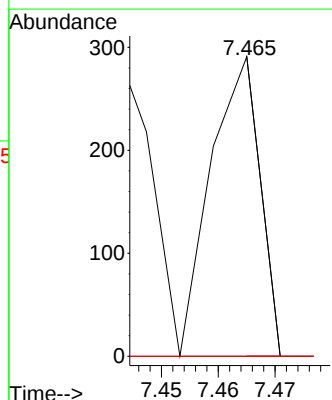
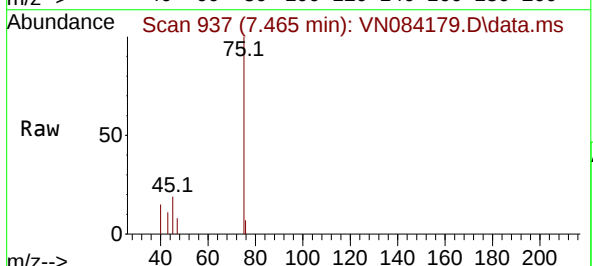
Tgt Ion: 43 Resp: 175

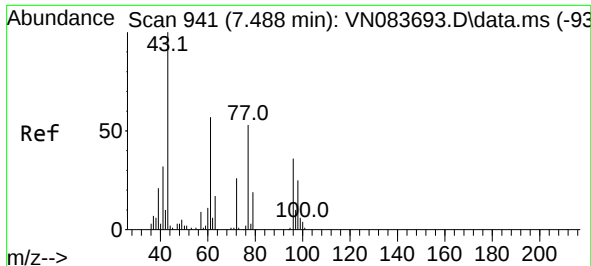
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 24.0 36.0#





#31

2,2-Dichloropropane

Concen: 0.394 ug/l

RT: 7.441 min Scan# 91

Delta R.T. -0.047 min

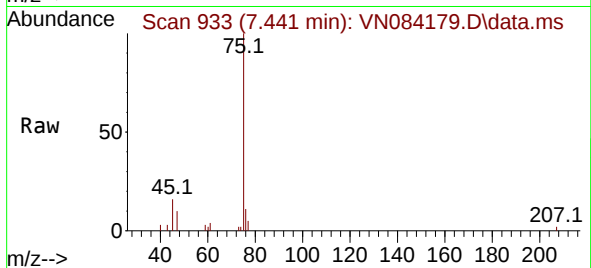
Lab File: VN084179.D

Acq: 26 Sep 2024 16:16

Instrument :

MSVOA_N

ClientSampleId :

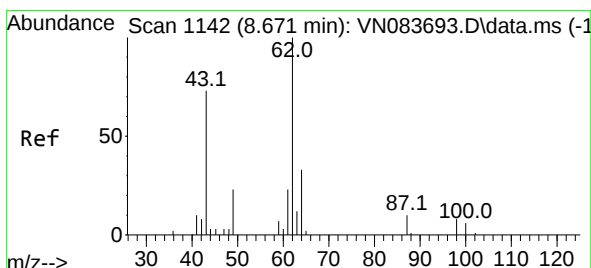
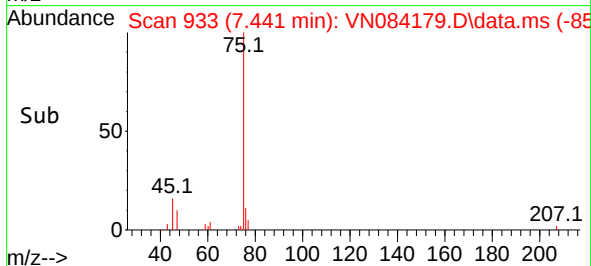
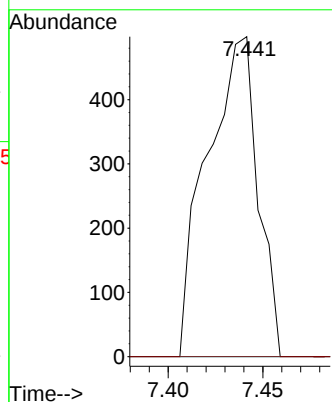


Tgt Ion: 77 Resp: 929

Ion Ratio Lower Upper

77 100

97 0.0 18.3 27.5#



#36

1,2-Dichloroethane

Concen: 2.139 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.424 min

Lab File: VN084179.D

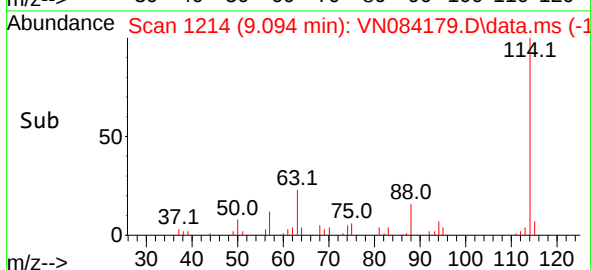
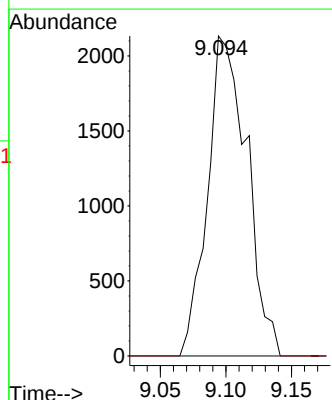
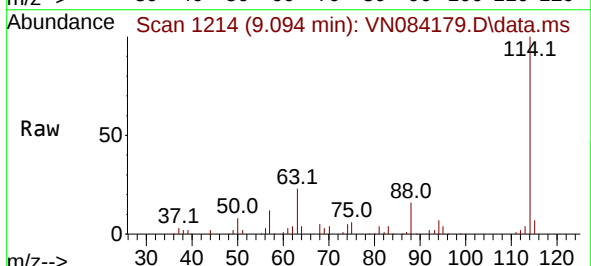
Acq: 26 Sep 2024 16:16

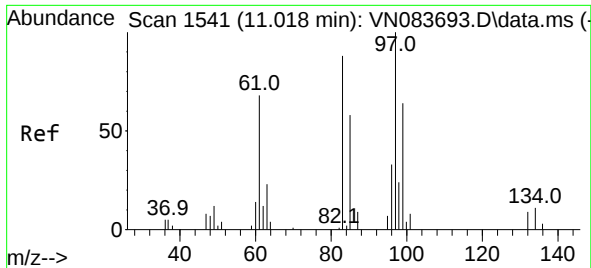
Tgt Ion: 62 Resp: 4457

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#

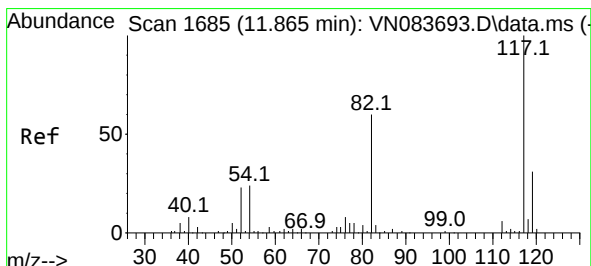
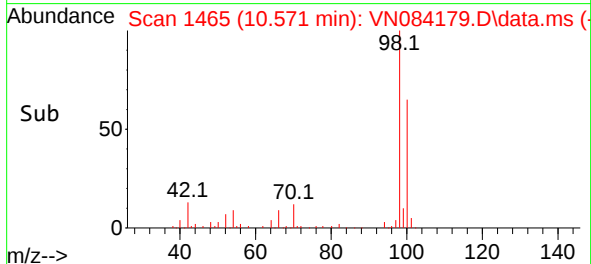
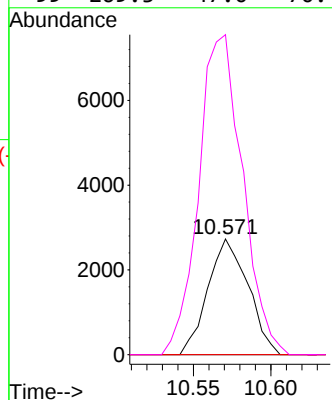
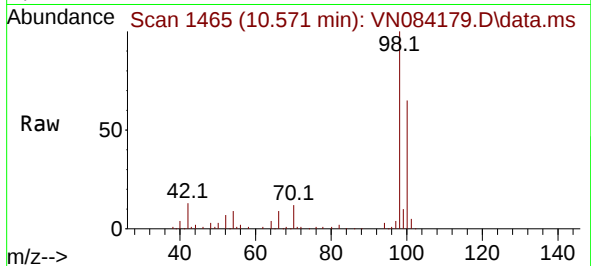




#50
1,1,2-Trichloroethane
Concen: 3.965 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

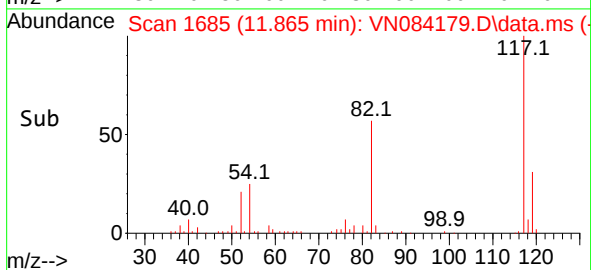
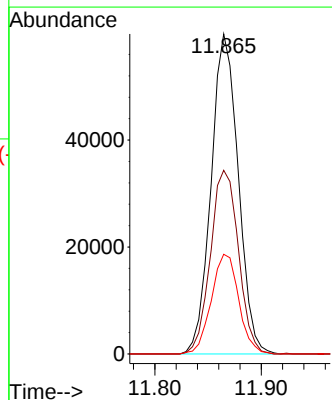
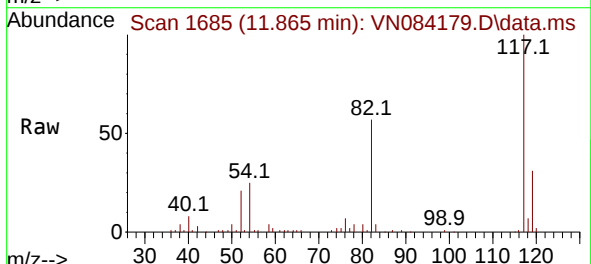
Instrument :
MSVOA_N
ClientSampleId :

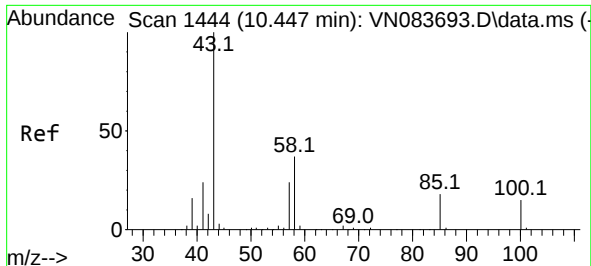
Tgt Ion: 97	Resp: 4922
Ion Ratio	Lower Upper
97 100	
83 0.0	68.1 102.1#
85 0.0	41.8 62.6#
99 269.3	47.0 70.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

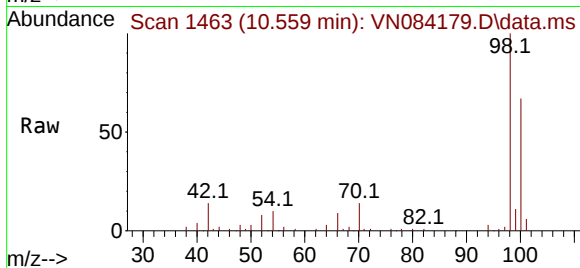
Tgt Ion: 117	Resp: 105894
Ion Ratio	Lower Upper
117 100	
82 59.2	46.6 69.8
119 31.5	25.4 38.2



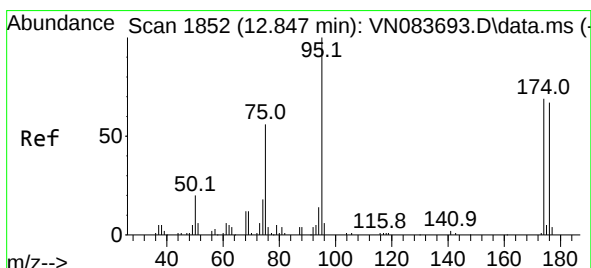
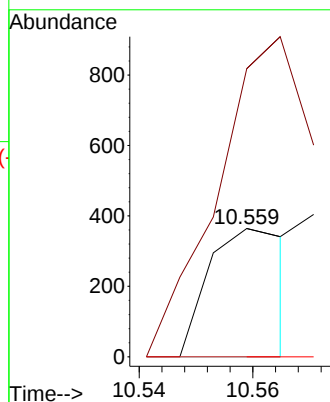
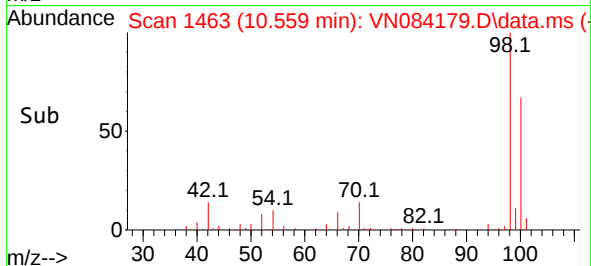


#58
4-Methyl-2-Pentanone
Concen: 0.210 ug/l
RT: 10.559 min Scan# 1444
Delta R.T. 0.112 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

Instrument :
MSVOA_N
ClientSampleId :

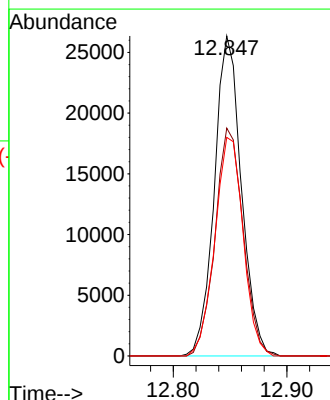
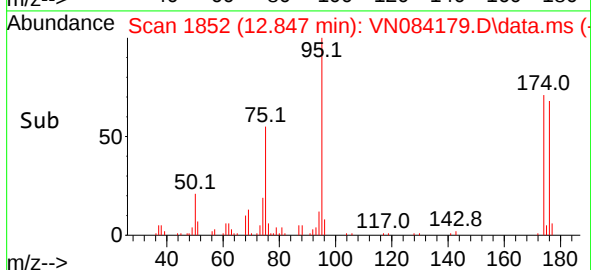
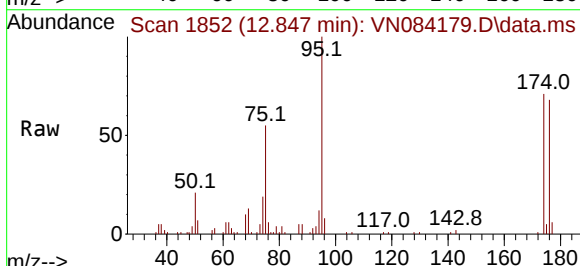


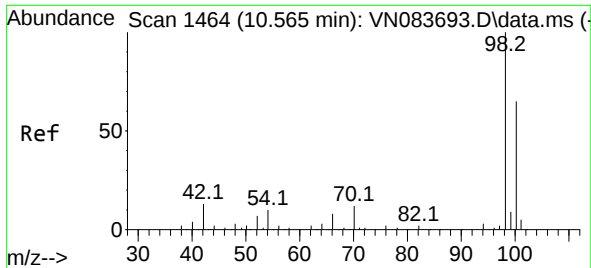
Tgt Ion: 43 Resp: 353
Ion Ratio Lower Upper
43 100
58 378.8 36.5 54.7#
85 0.0 19.5 29.3#



#60
4-Bromofluorobenzene
Concen: 23.877 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

Tgt Ion: 95 Resp: 43577
Ion Ratio Lower Upper
95 100
174 73.9 60.5 90.7
176 71.5 57.8 86.6

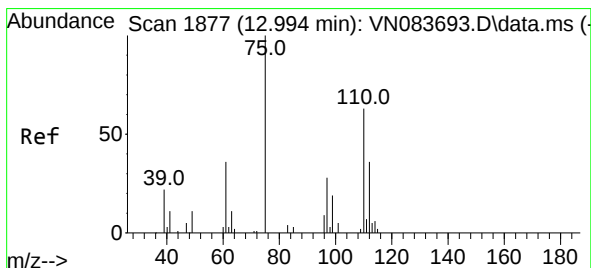
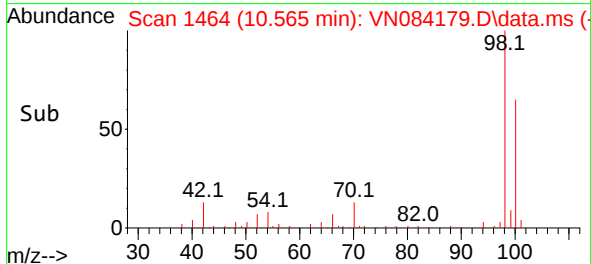
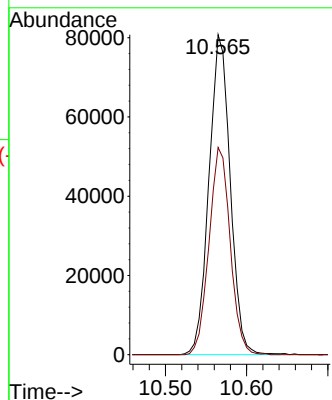
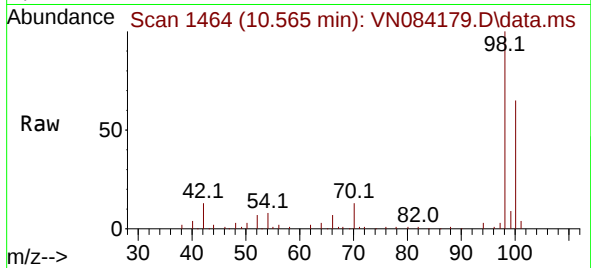




#63
Toluene-d8
Concen: 29.905 ug/l
RT: 10.565 min Scan# 1466
Delta R.T. 0.000 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

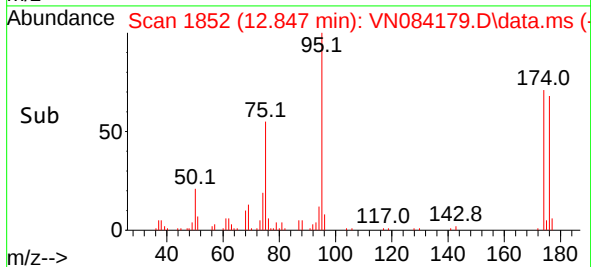
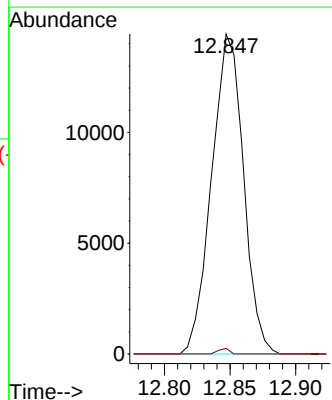
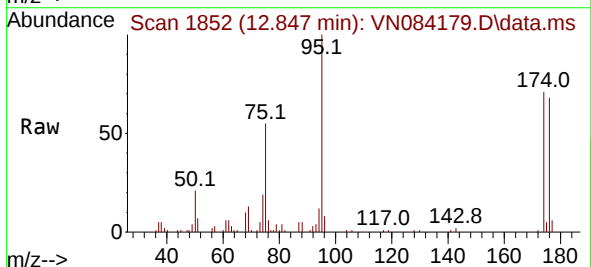
Instrument :
MSVOA_N
ClientSampleId :

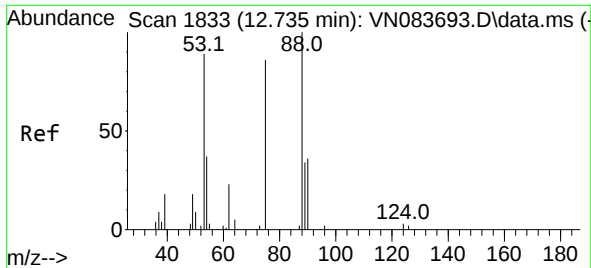
Tgt Ion: 98 Resp: 146631
Ion Ratio Lower Upper
98 100
100 64.6 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 15.662 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084179.D
Acq: 26 Sep 2024 16:16

Tgt Ion: 75 Resp: 24393
Ion Ratio Lower Upper
75 100
77 0.6 0.0 367.6





#77

t-1,4-Dichloro-2-butene

Concen: 37.053 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

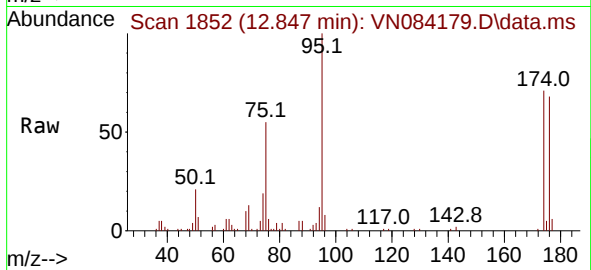
Lab File: VN084179.D

Acq: 26 Sep 2024 16:16

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 24393

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#

