

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085281.D
 Acq On : 20 Dec 2024 14:06
 Operator : JC\MD
 Sample : VN1220WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:24:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

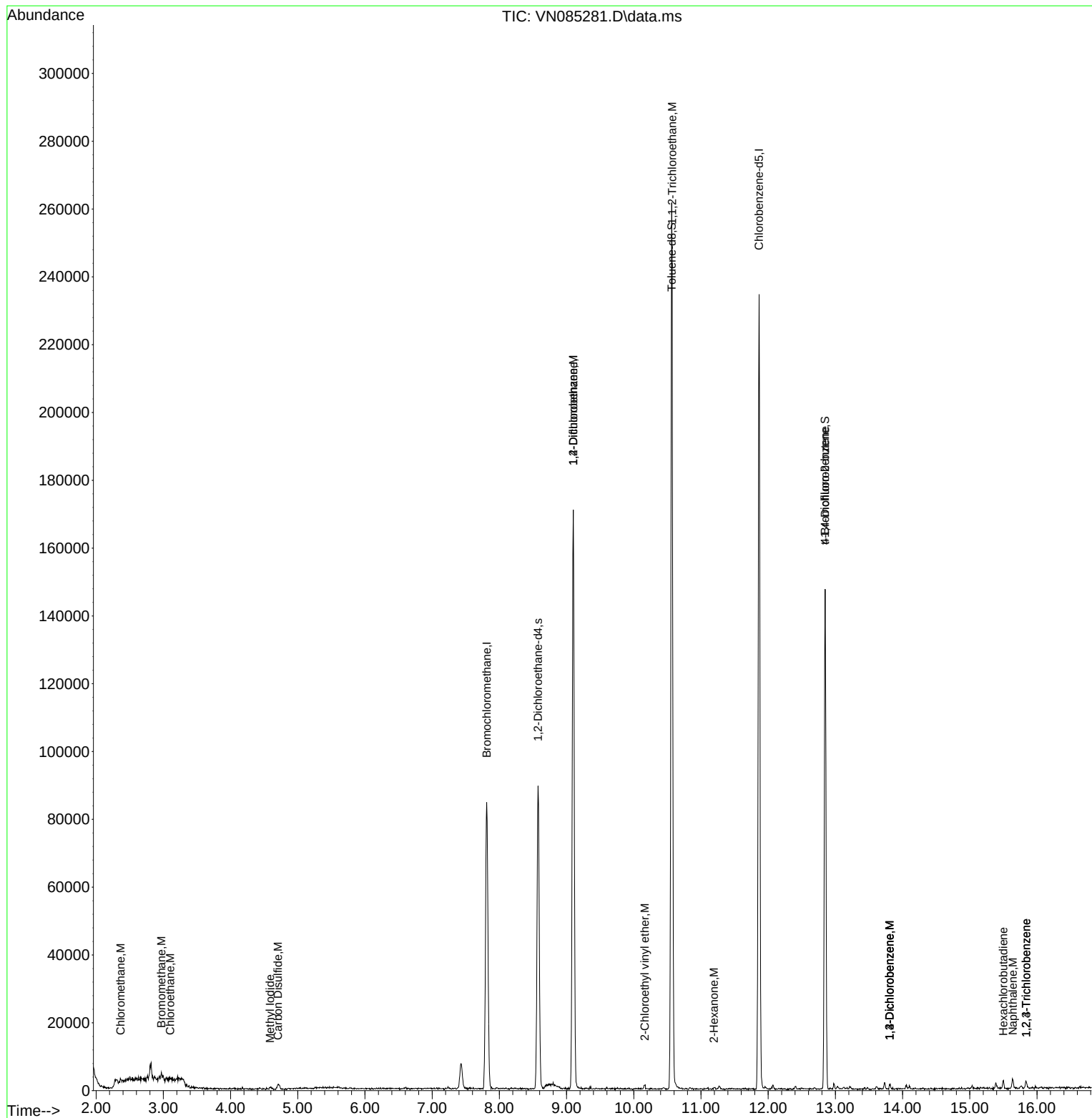
Internal Standards						
1) Bromochloromethane	7.812	128	28536	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	139194	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	126992	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	76597	30.513	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.700%
60) 4-Bromofluorobenzene	12.847	95	48901	23.772	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.233%
63) Toluene-d8	10.565	98	176819	28.515	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.033%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	792	0.329	ug/l	95
5) Bromomethane	2.971	94	1057	0.739	ug/l	90
6) Chloroethane	3.100	64	433	0.280	ug/l #	47
11) Methyl Iodide	4.589	142	599	0.284	ug/l #	36
16) Carbon Disulfide	4.706	76	2054	0.383	ug/l #	77
36) 1,2-Dichloroethane	9.100	62	5712	2.068	ug/l #	77
50) 1,1,2-Trichloroethane	10.571	97	6509	3.673	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.165	63	717	0.519	ug/l #	62
59) 2-Hexanone	11.194	43	474	0.253	ug/l #	68
77) t-1,4-Dichloro-2-butene	12.847	75	27754	30.541	ug/l #	6
83) 1,3-Dichlorobenzene	13.806	146	888	0.262	ug/l	90
84) 1,4-Dichlorobenzene	13.806	146	888	0.270	ug/l	87
87) 1,2-Dichlorobenzene	13.806	146	888	0.275	ug/l	86
89) 1,2,4-Trichlorobenzene	15.841	180	1012	0.662	ug/l #	47
90) Hexachlorobutadiene	15.500	225	624	0.820	ug/l	93
91) Naphthalene	15.641	128	3179	0.648	ug/l #	88
92) 1,2,3-Trichlorobenzene	15.841	180	1012	0.662	ug/l	47

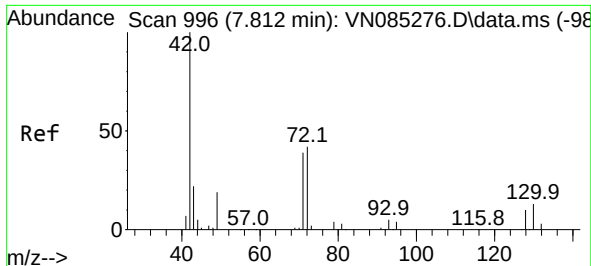
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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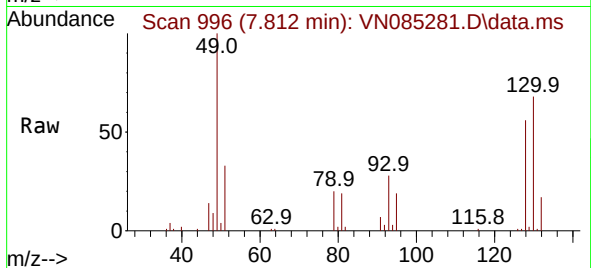
Quant Time: Dec 21 02:24:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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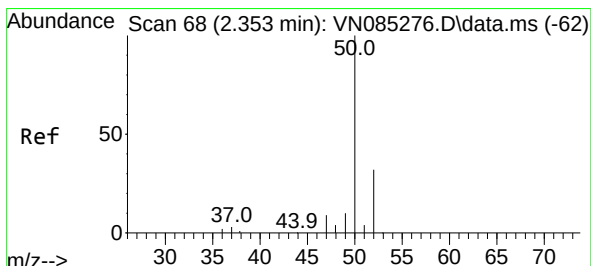
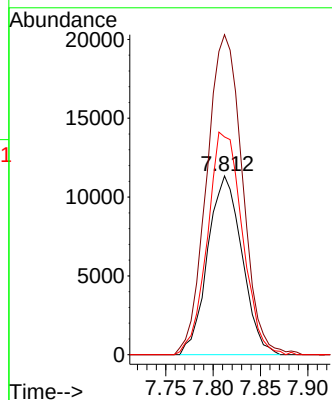
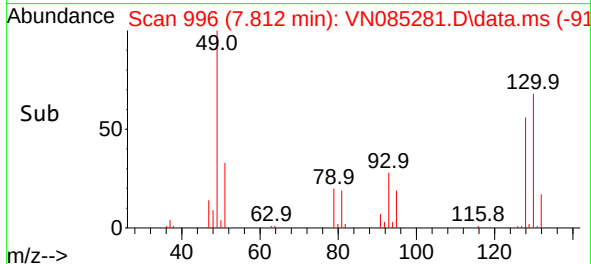


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Instrument :
MSVOA_N
ClientSampleId :

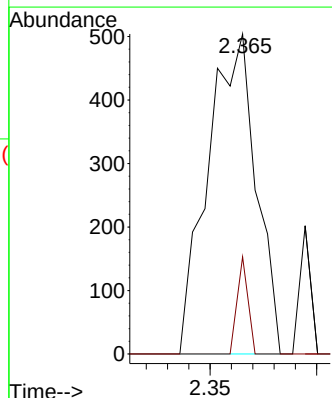
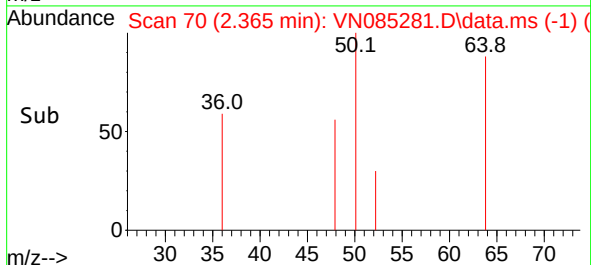
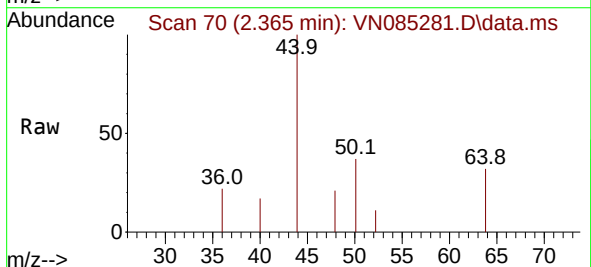


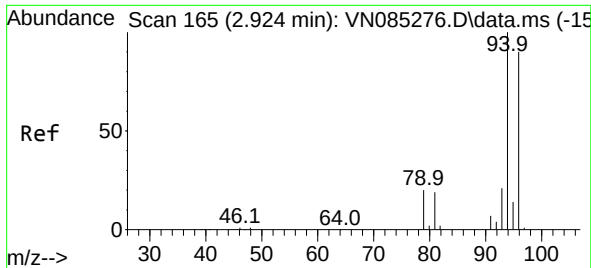
Tgt Ion:128 Resp: 28536
Ion Ratio Lower Upper
128 100
49 185.8 0.0 497.8
130 126.7 0.0 328.5



#3
Chloromethane
Concen: 0.329 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Tgt Ion: 50 Resp: 792
Ion Ratio Lower Upper
50 100
52 30.4 26.5 39.7

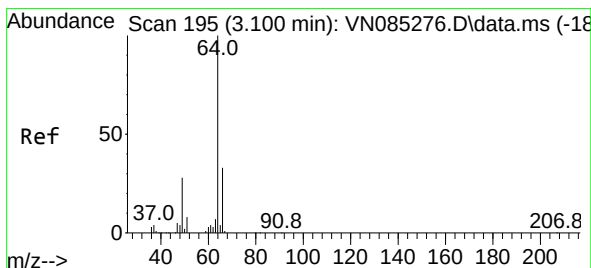
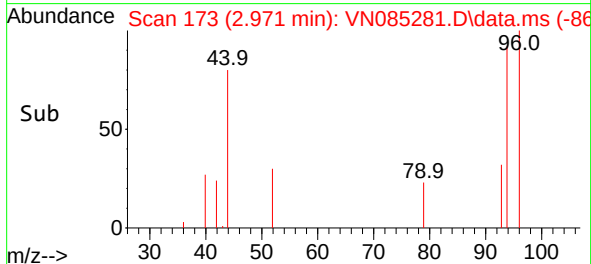
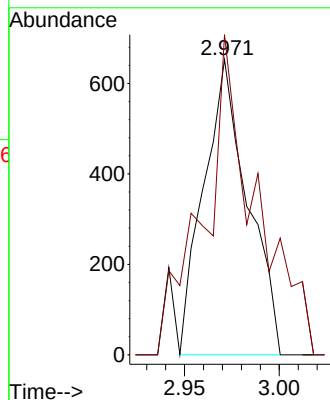
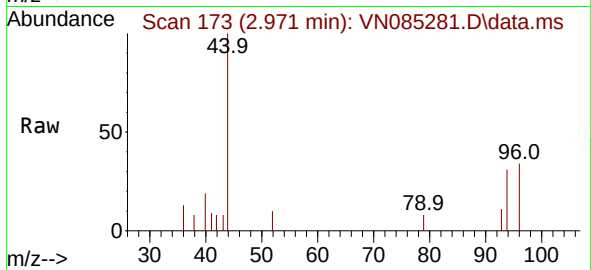




#5
Bromomethane
Concen: 0.739 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.012 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

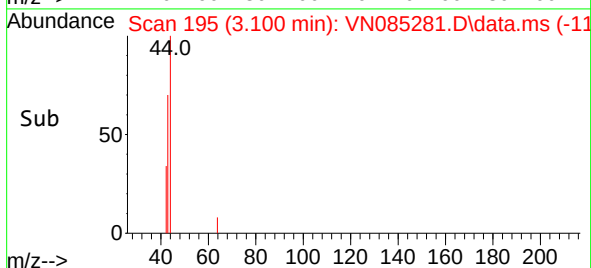
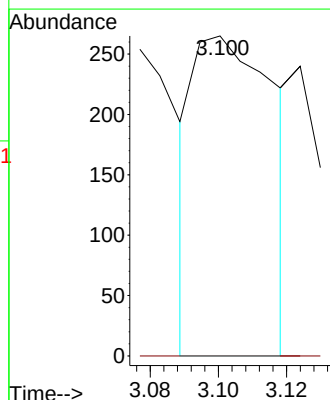
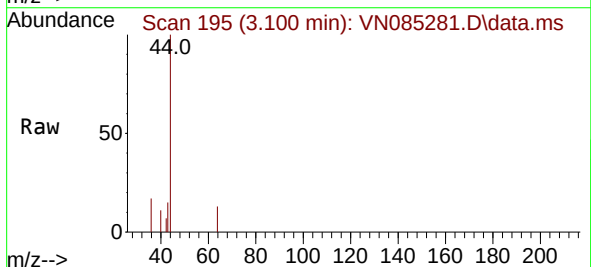
Instrument :
MSVOA_N
ClientSampleId :

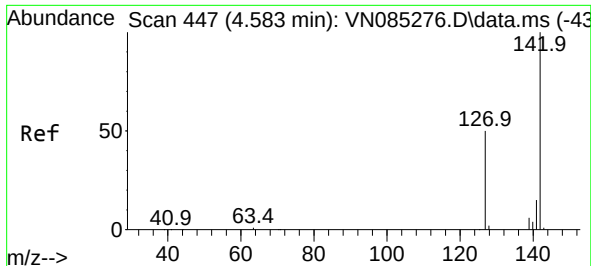
Tgt Ion: 94 Resp: 1057
Ion Ratio Lower Upper
94 100
96 85.0 75.6 113.4



#6
Chloroethane
Concen: 0.280 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

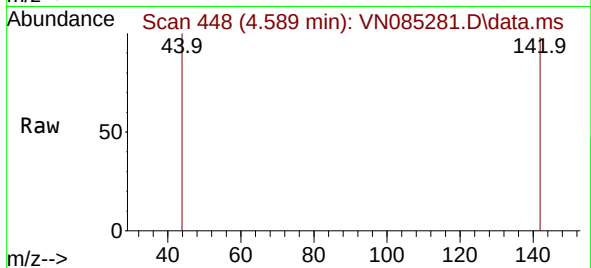
Tgt Ion: 64 Resp: 433
Ion Ratio Lower Upper
64 100
66 0.0 22.2 33.4#



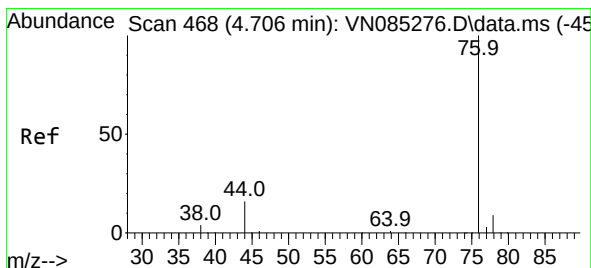
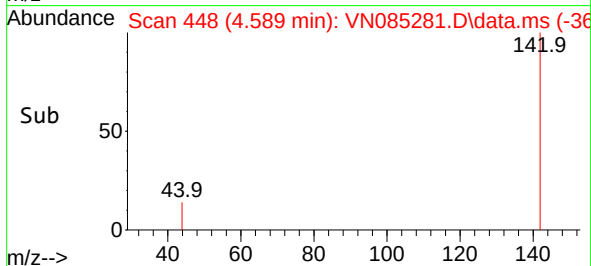
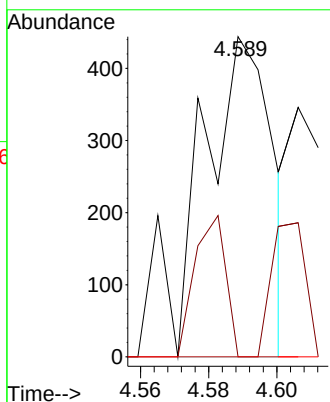


#11
Methyl Iodide
Concen: 0.284 ug/l
RT: 4.589 min Scan# 447
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Instrument :
MSVOA_N
ClientSampleId :

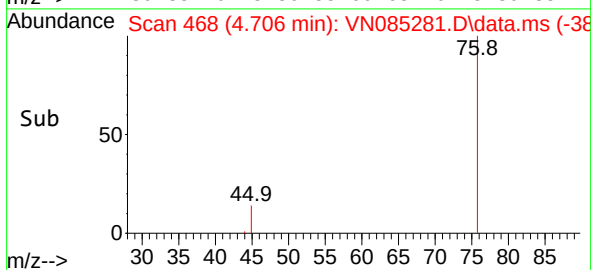
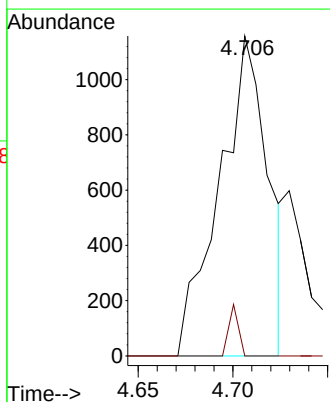
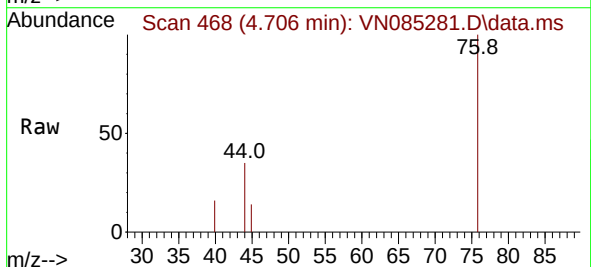


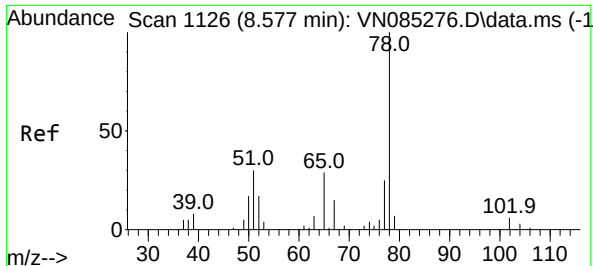
Tgt Ion:142 Resp: 599
Ion Ratio Lower Upper
142 100
127 0.0 25.1 75.4#
141 0.0 6.9 20.7#



#16
Carbon Disulfide
Concen: 0.383 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Tgt Ion: 76 Resp: 2054
Ion Ratio Lower Upper
76 100
78 0.0 6.6 9.8#

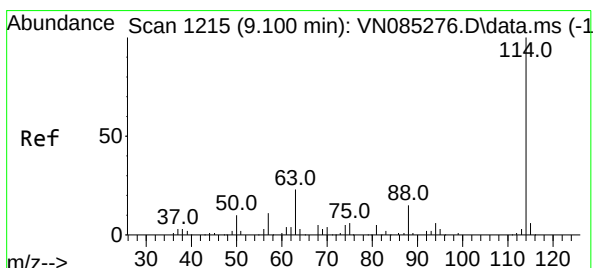
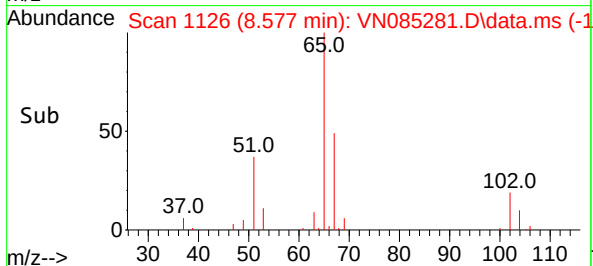
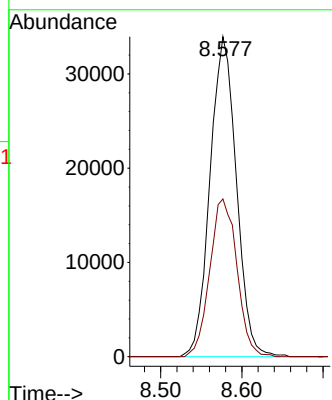
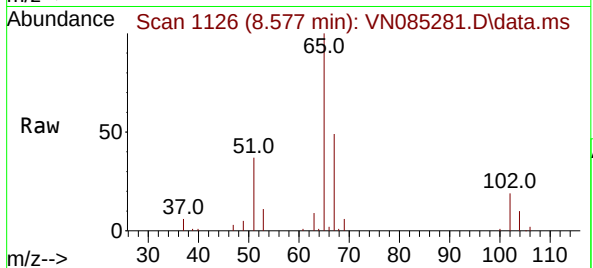




#27
1,2-Dichloroethane-d4
Concen: 30.513 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

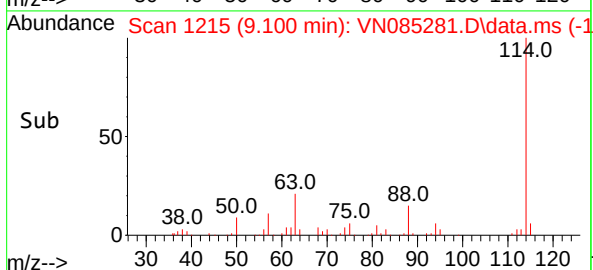
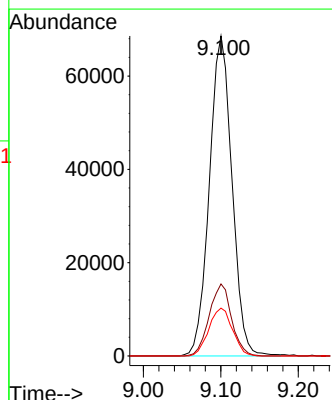
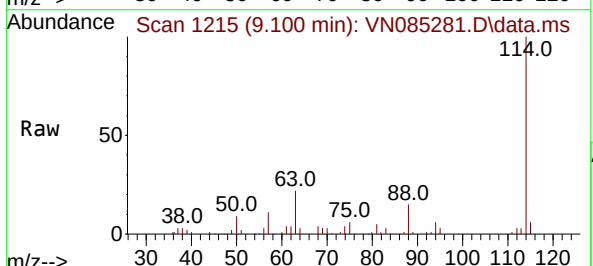
Instrument :
MSVOA_N
ClientSampleId :

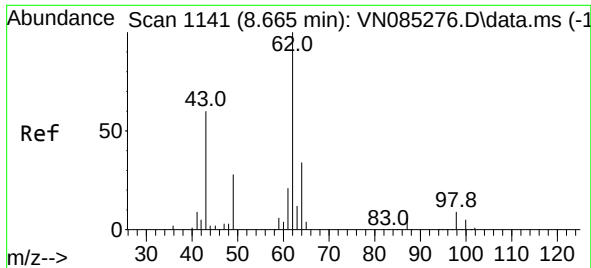
Tgt Ion: 65 Resp: 76597
Ion Ratio Lower Upper
65 100
67 50.7 42.0 63.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Tgt Ion: 114 Resp: 139194
Ion Ratio Lower Upper
114 100
63 22.2 18.0 27.0
88 15.6 12.9 19.3





#36

1,2-Dichloroethane

Concen: 2.068 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.435 min

Lab File: VN085281.D

Acq: 20 Dec 2024 14:06

Instrument :

MSVOA_N

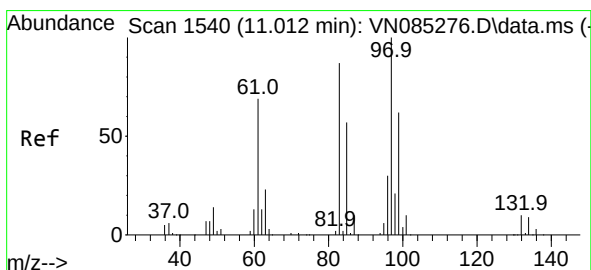
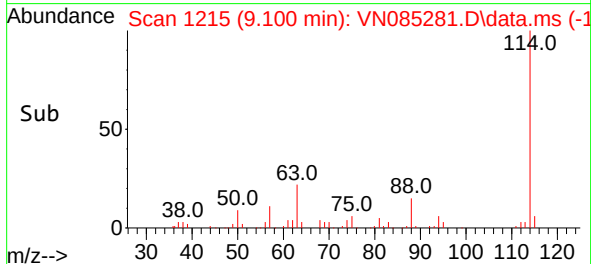
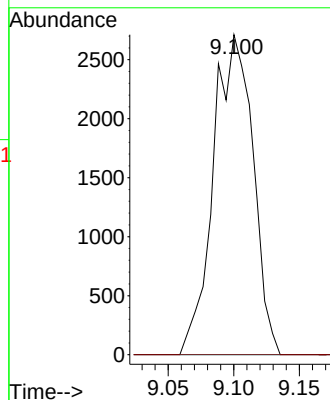
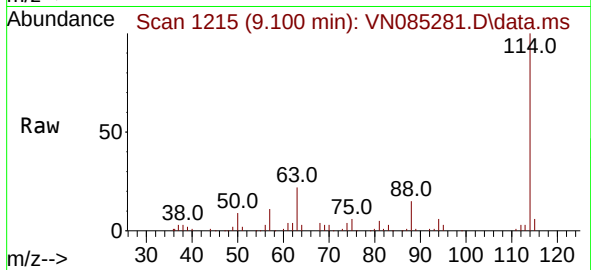
ClientSampleId :

Tgt Ion: 62 Resp: 5712

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#50

1,1,2-Trichloroethane

Concen: 3.673 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.441 min

Lab File: VN085281.D

Acq: 20 Dec 2024 14:06

Tgt Ion: 97 Resp: 6509

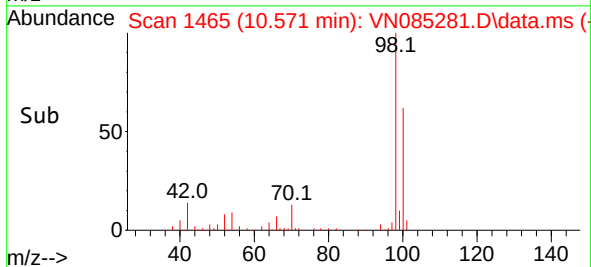
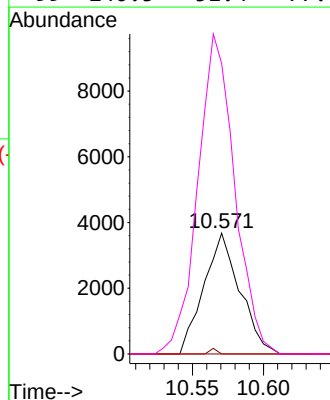
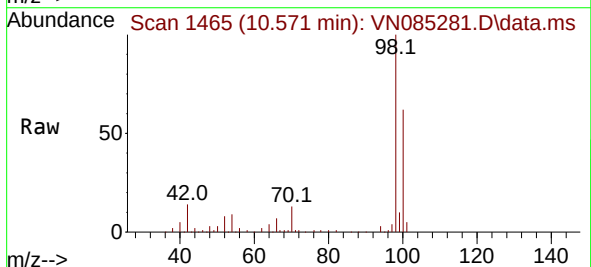
Ion Ratio Lower Upper

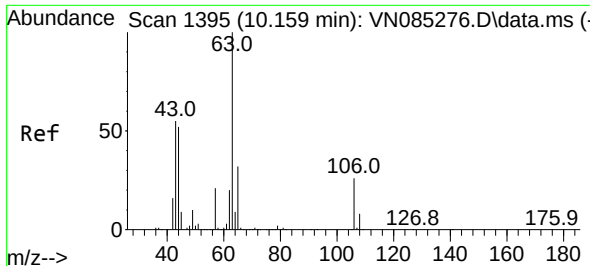
97 100

83 0.0 72.2 108.2#

85 0.0 46.6 70.0#

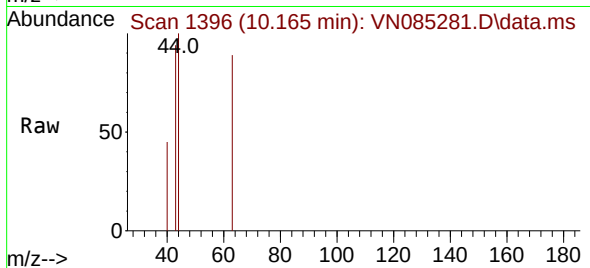
99 240.5 51.4 77.0#



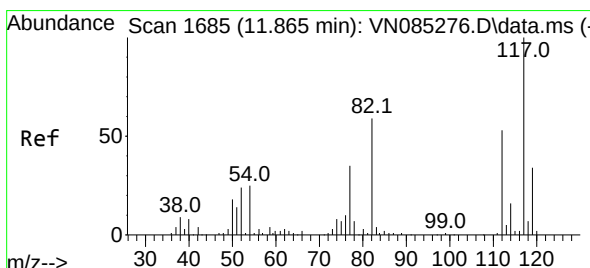
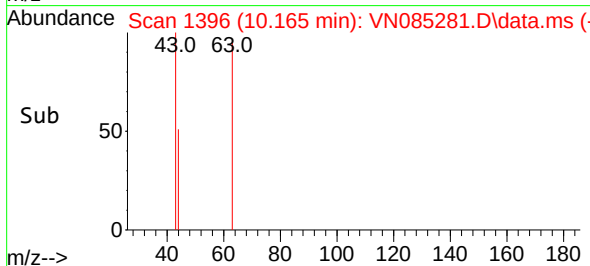
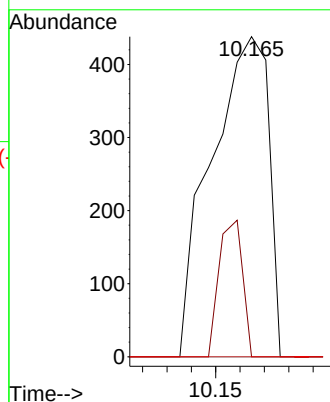


#55
2-Chloroethyl vinyl ether
Concen: 0.519 ug/l
RT: 10.165 min Scan# 1395
Delta R.T. 0.006 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Instrument :
MSVOA_N
ClientSampleId :

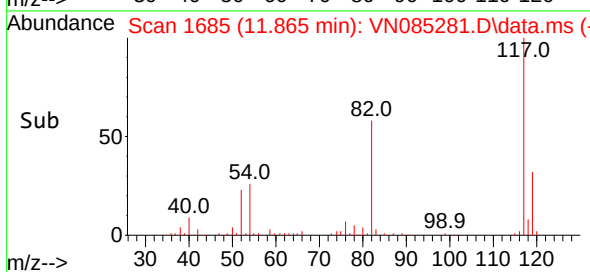
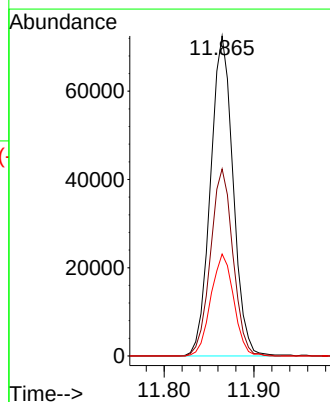
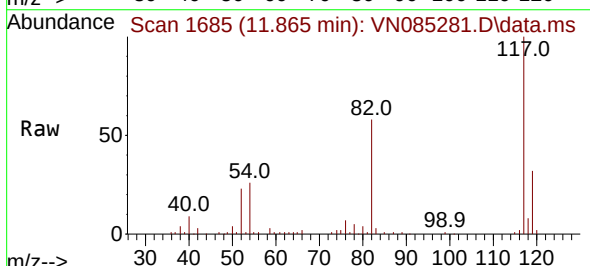


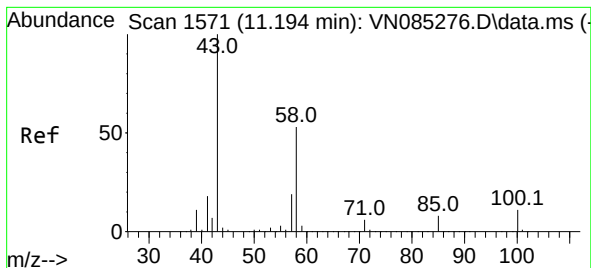
Tgt Ion: 63 Resp: 717
Ion Ratio Lower Upper
63 100
65 17.4 25.9 38.9#
106 0.0 21.2 31.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Tgt Ion: 117 Resp: 126992
Ion Ratio Lower Upper
117 100
82 58.2 47.4 71.0
119 32.2 25.3 37.9





#59

2-Hexanone

Concen: 0.253 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085281.D

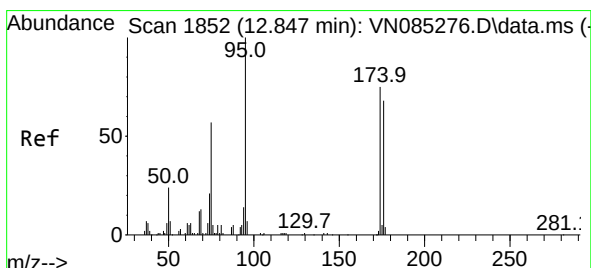
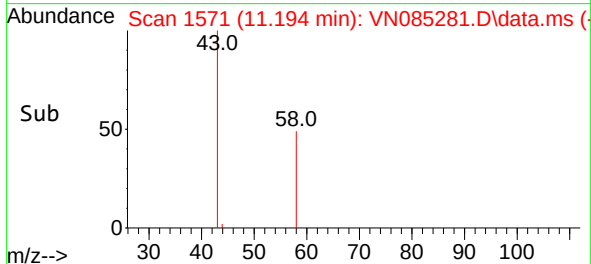
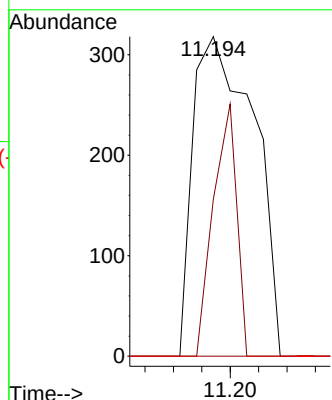
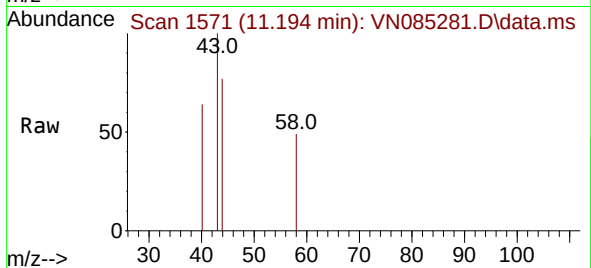
Acq: 20 Dec 2024 14:06

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43	Resp:	474
Ion	Ratio	Lower Upper
43	100	
58	30.4	40.2 60.4#
57	0.0	14.2 21.4#



#60

4-Bromofluorobenzene

Concen: 23.772 ug/l

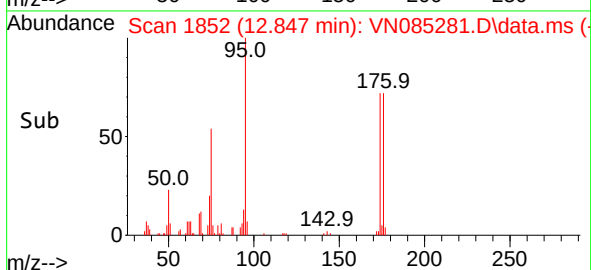
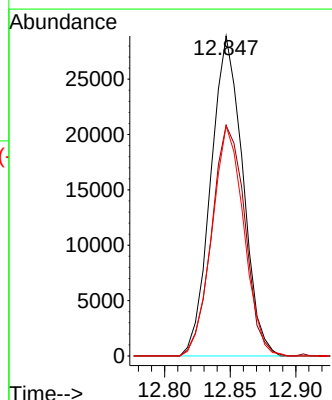
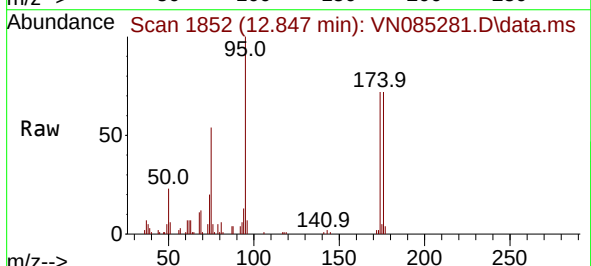
RT: 12.847 min Scan# 1852

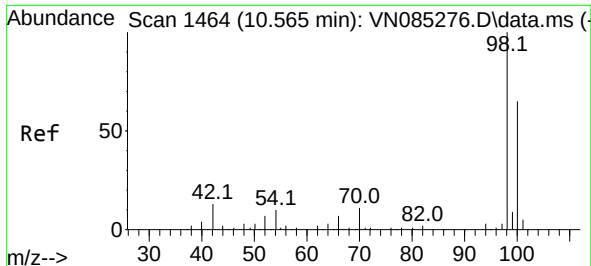
Delta R.T. 0.000 min

Lab File: VN085281.D

Acq: 20 Dec 2024 14:06

Tgt Ion: 95	Resp:	48901
Ion	Ratio	Lower Upper
95	100	
174	74.8	57.8 86.8
176	71.8	57.1 85.7

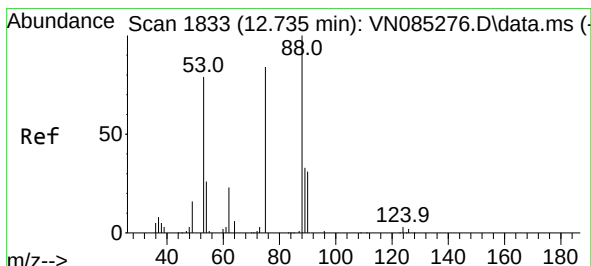
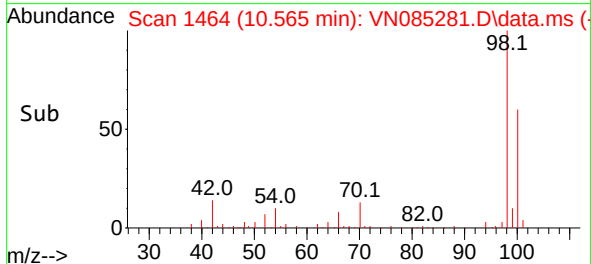
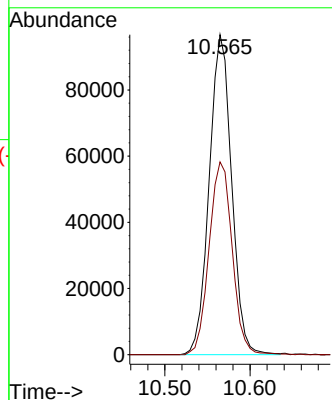
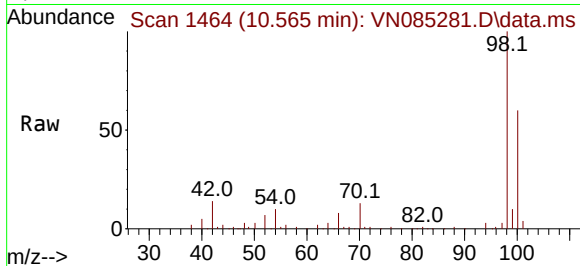




#63
Toluene-d8
Concen: 28.515 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

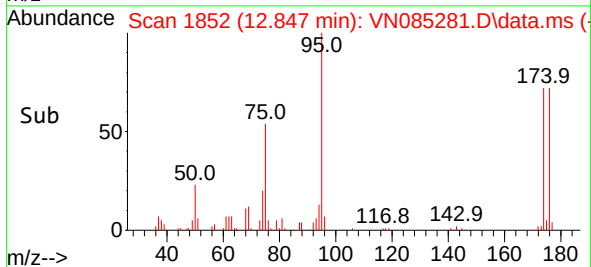
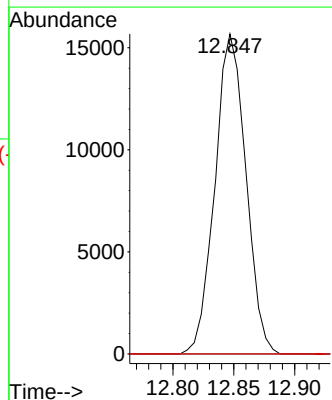
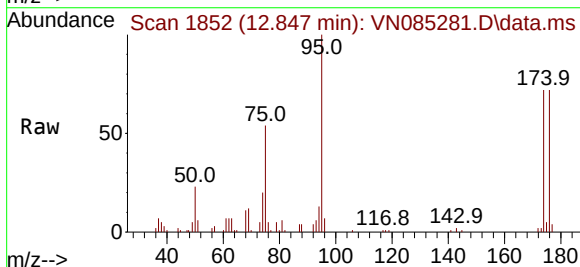
Instrument :
MSVOA_N
ClientSampleId :

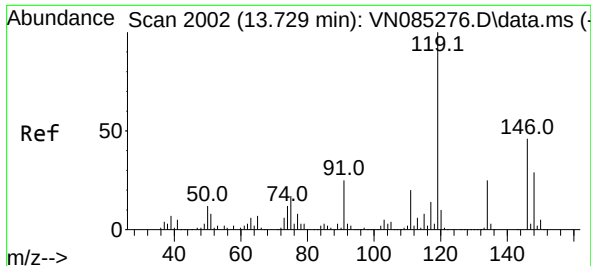
Tgt Ion: 98 Resp: 176819
Ion Ratio Lower Upper
98 100
100 62.1 50.8 76.2



#77
t-1,4-Dichloro-2-butene
Concen: 30.541 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

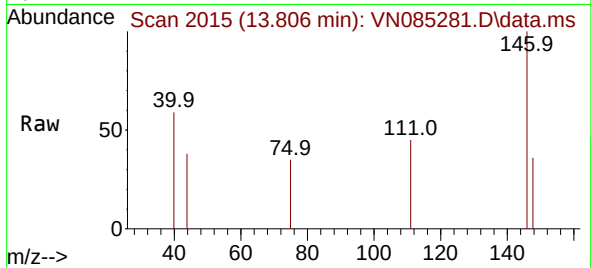
Tgt Ion: 75 Resp: 27754
Ion Ratio Lower Upper
75 100
53 0.0 54.9 164.5#
89 0.0 22.8 68.3#



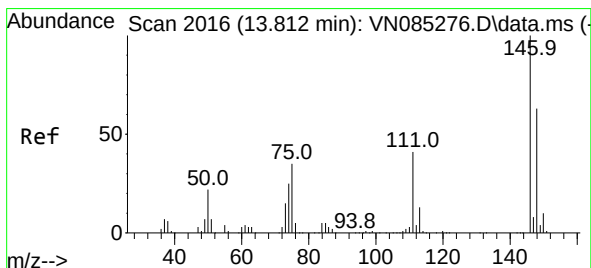
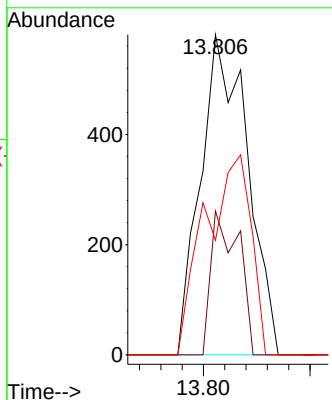
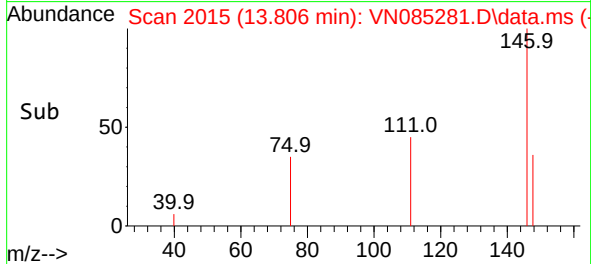


#83
1,3-Dichlorobenzene
Concen: 0.262 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. 0.077 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

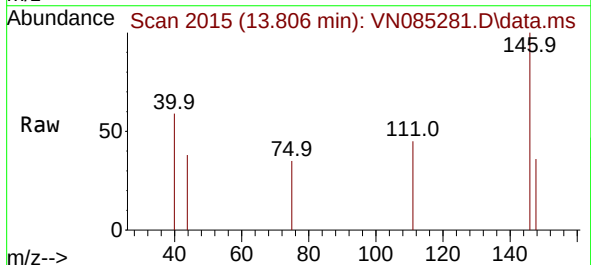
Instrument :
MSVOA_N
ClientSampleId :



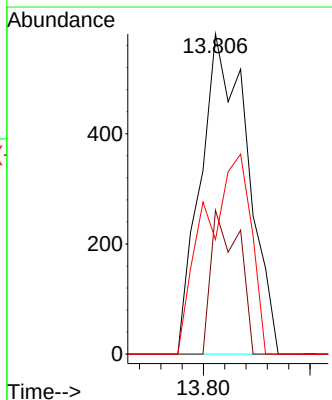
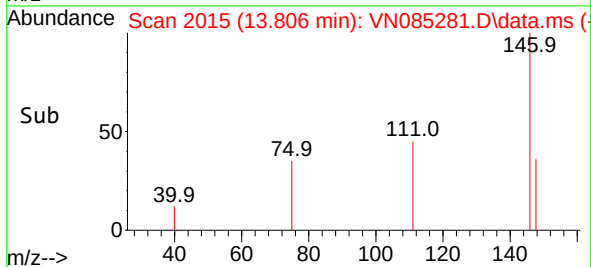
Tgt Ion:146 Resp: 888
Ion Ratio Lower Upper
146 100
111 26.7 20.4 61.3
148 61.5 31.1 93.5

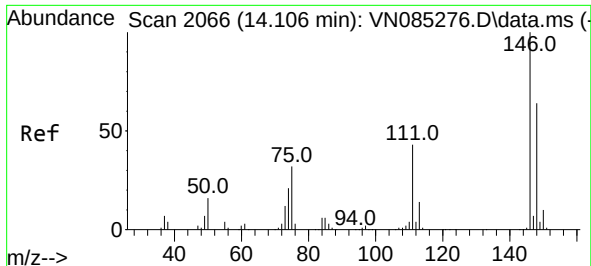


#84
1,4-Dichlorobenzene
Concen: 0.270 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06



Tgt Ion:146 Resp: 888
Ion Ratio Lower Upper
146 100
111 26.7 20.7 62.1
148 61.5 33.2 99.6





#87

1,2-Dichlorobenzene

Concen: 0.275 ug/l

RT: 13.806 min Scan# 2066

Delta R.T. -0.300 min

Lab File: VN085281.D

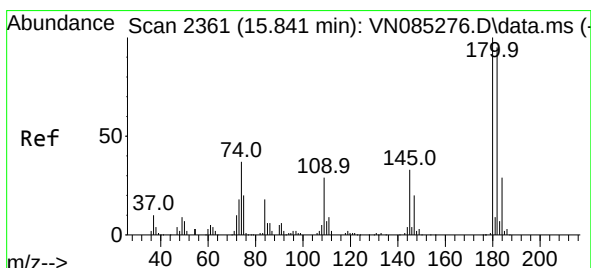
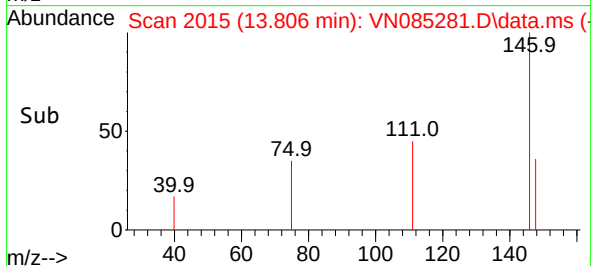
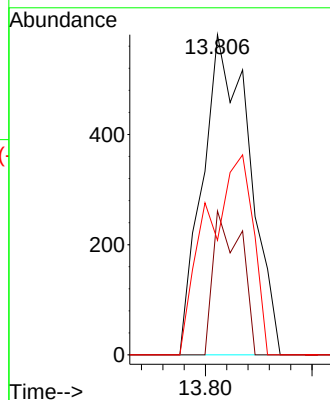
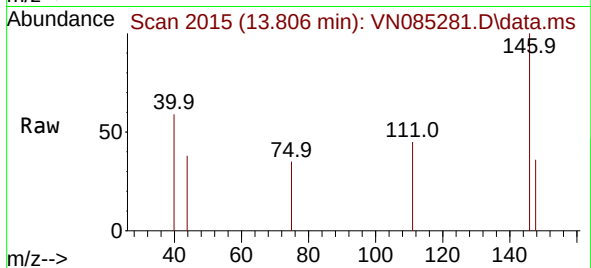
Acq: 20 Dec 2024 14:06

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:146	Resp:	888
Ion Ratio	Lower	Upper
146	100	
111	26.7	22.1 66.3
148	61.5	32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 0.662 ug/l

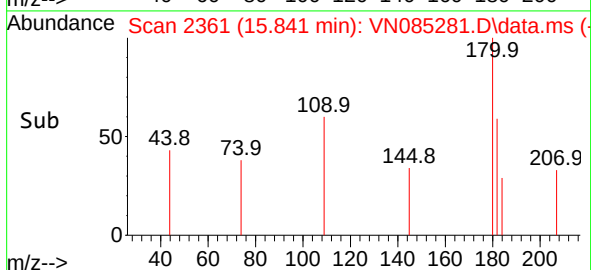
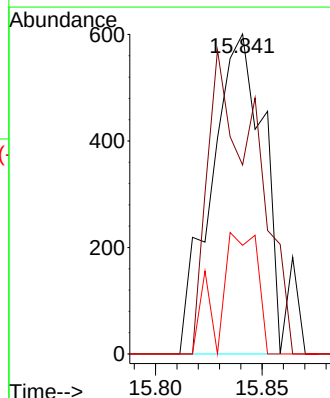
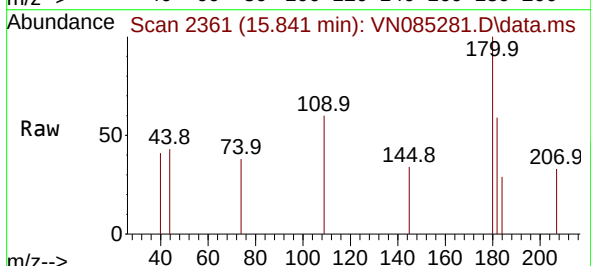
RT: 15.841 min Scan# 2361

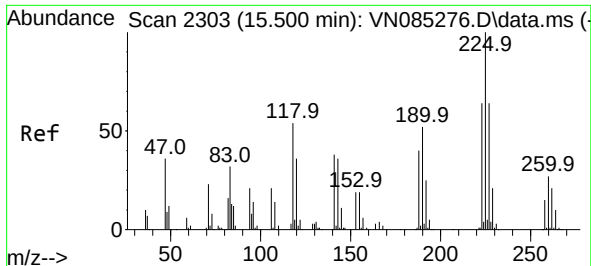
Delta R.T. 0.006 min

Lab File: VN085281.D

Acq: 20 Dec 2024 14:06

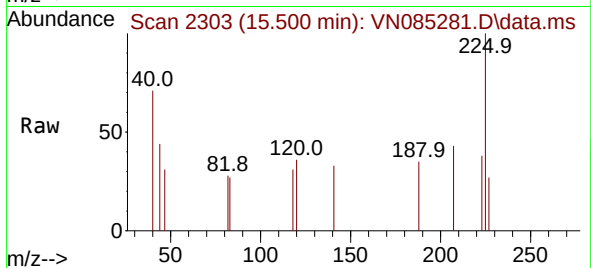
Tgt Ion:180	Resp:	1012
Ion Ratio	Lower	Upper
180	100	
182	32.0	76.5 114.7#
145	22.8	27.4 41.2#



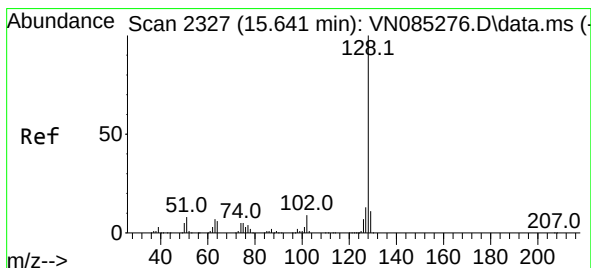
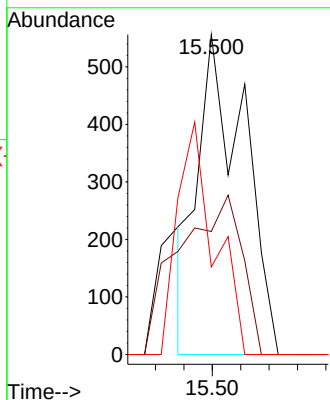
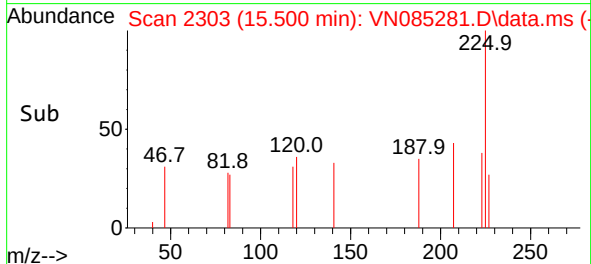


#90
Hexachlorobutadiene
Concen: 0.820 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

Instrument :
MSVOA_N
ClientSampleId :

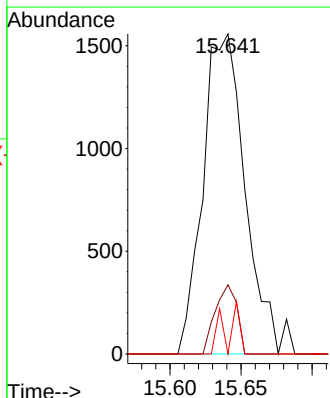
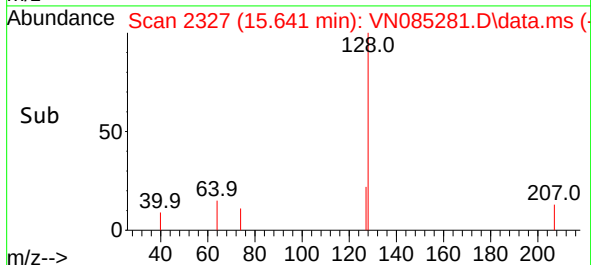
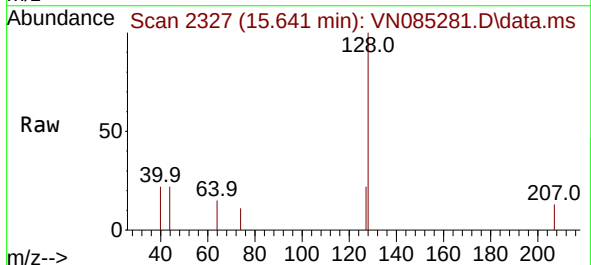


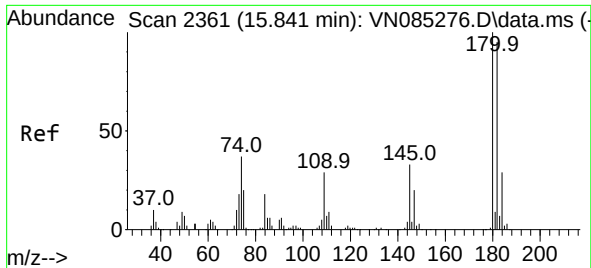
Tgt Ion:225 Resp: 624
Ion Ratio Lower Upper
225 100
223 68.6 0.0 116.2
227 58.3 0.0 116.4



#91
Naphthalene
Concen: 0.648 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN085281.D
Acq: 20 Dec 2024 14:06

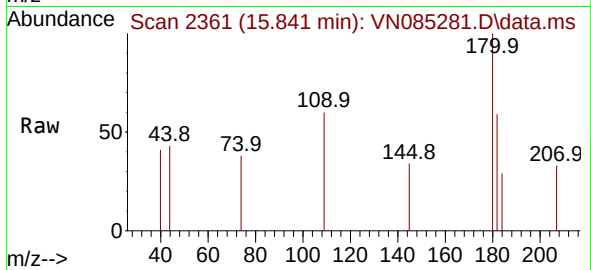
Tgt Ion:128 Resp: 3179
Ion Ratio Lower Upper
128 100
127 11.2 10.6 16.0
129 2.8 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.662 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085281.D
 Acq: 20 Dec 2024 14:06

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180	Resp:	1012
Ion	Ratio	Lower Upper
180	100	
182	32.0	0.0 191.2
145	22.8	0.0 68.6

