

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078932.D
 Acq On : 17 Aug 2023 17:53
 Operator : JC\MD
 Sample : 04027-01DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:34:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

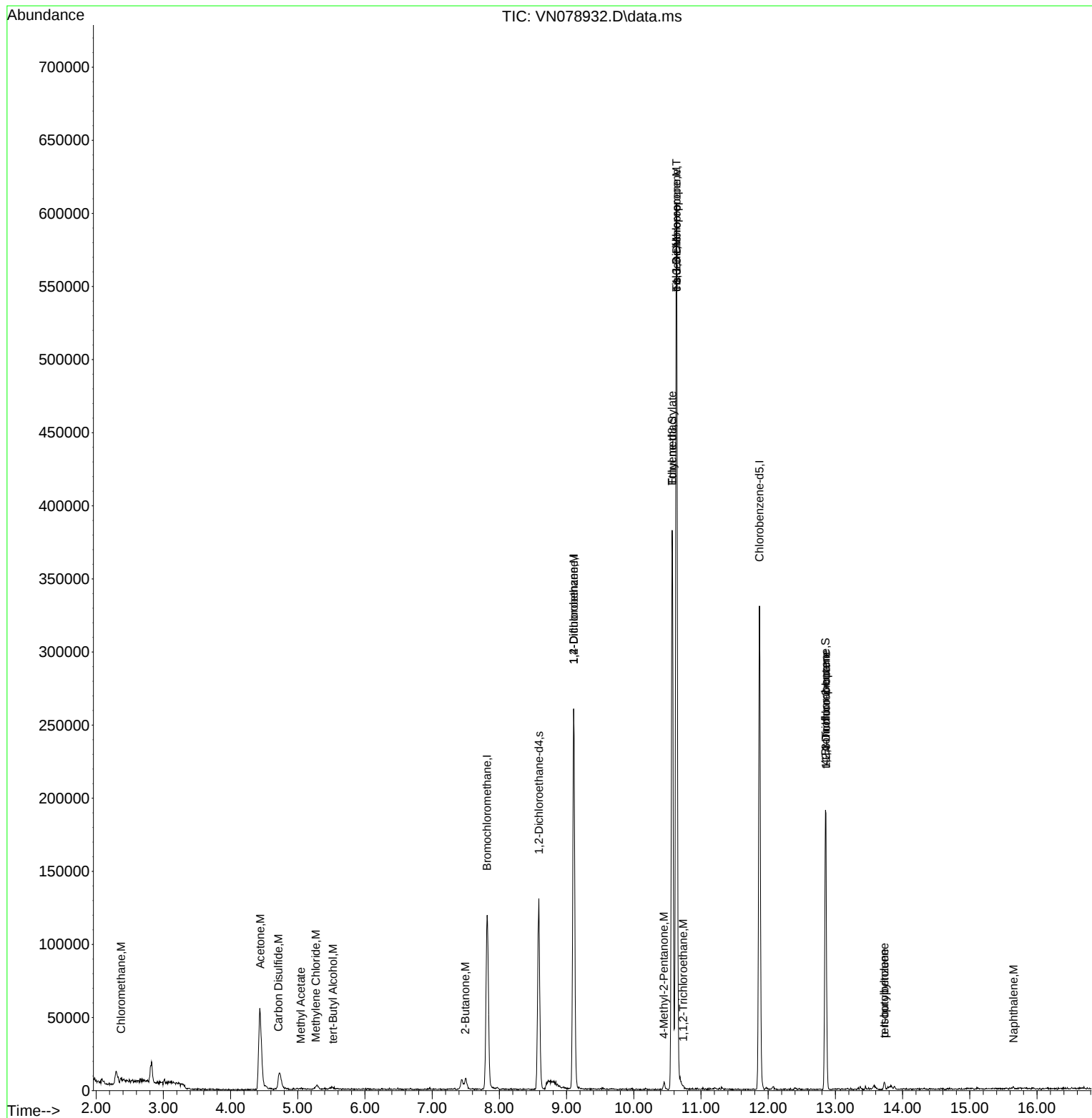
Internal Standards						
1) Bromochloromethane	7.818	128	39491	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	214398	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	185417	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	98800	30.881	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.933%
60) 4-Bromofluorobenzene	12.853	95	66090	24.435	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.467%
63) Toluene-d8	10.571	98	257586	29.748	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.167%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1110	0.372	ug/l #	44
12) Methyl Acetate	5.047	43	1222	0.249	ug/l #	54
15) Acetone	4.442	58	30463	77.050	ug/l	98
16) Carbon Disulfide	4.712	76	1399	0.233	ug/l #	76
18) Methylene Chloride	5.271	84	882	0.353	ug/l #	61
23) tert-Butyl Alcohol	5.524	59	343	0.713	ug/l #	100
30) 2-Butanone	7.494	43	12283	6.433	ug/l #	97
36) 1,2-Dichloroethane	9.106	62	8550	2.336	ug/l #	73
48) t-1,3-Dichloropropene	10.635	75	3530	0.934	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	3530	0.871	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	836	0.351	ug/l #	17
51) Ethyl methacrylate	10.571	69	804	0.218	ug/l #	69
58) 4-Methyl-2-Pentanone	10.447	43	3007	0.817	ug/l #	97
62) Toluene	10.635	91	442863	43.749	ug/l	97
72) 1,2,3-Trichloropropane	12.859	75	37264	12.847	ug/l	1
77) t-1,4-Dichloro-2-butene	12.859	75	37264	34.569	ug/l #	3
79) tert-butylbenzene	13.729	119	2579	0.408	ug/l	71
82) p-Isopropyltoluene	13.729	119	2579	0.379	ug/l	79
91) Naphthalene	15.653	128	1217	0.269	ug/l #	68

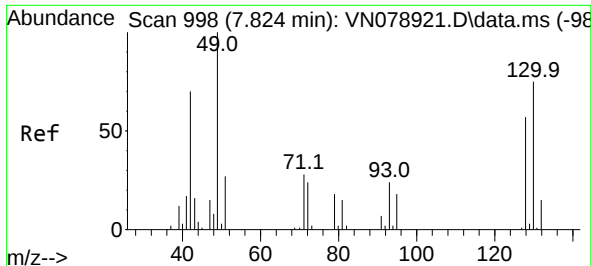
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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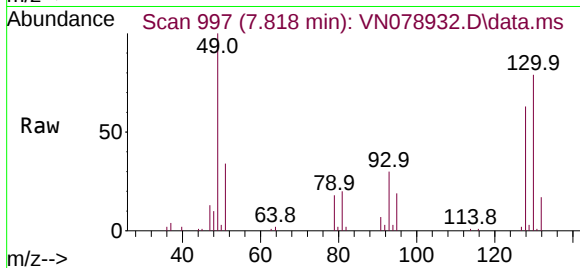
Quant Time: Aug 18 05:34:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration



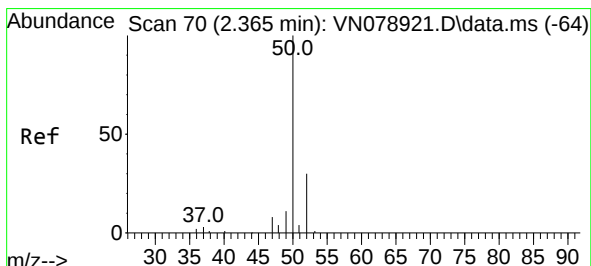
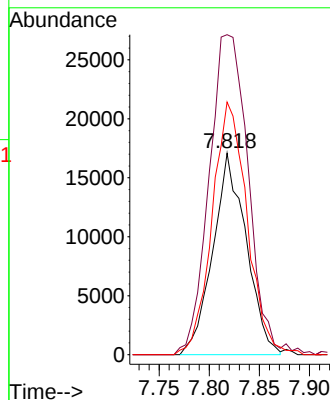
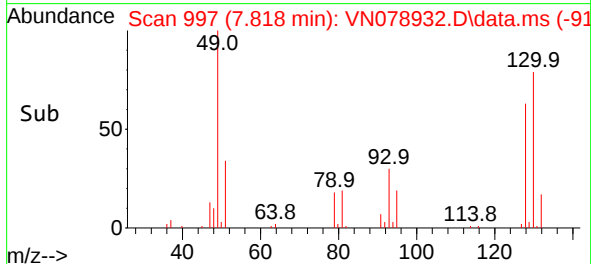


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Instrument :
MSVOA_N
ClientSampleId :

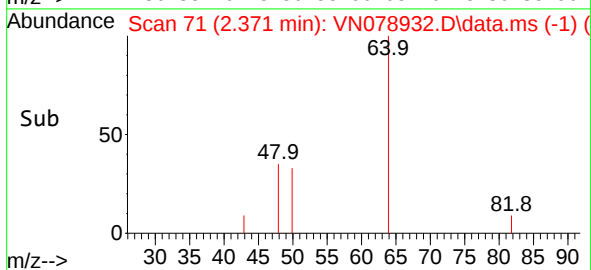
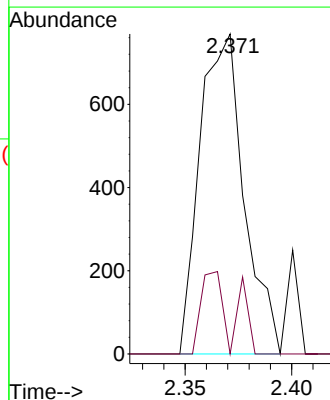
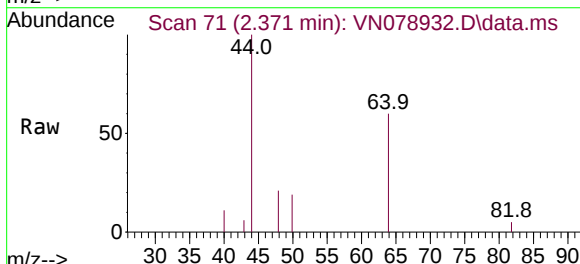


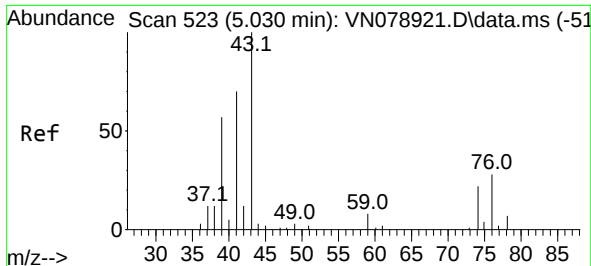
Tgt Ion	Ratio	Lower	Upper
128	100		
49	184.8	0.0	481.8
130	131.8	0.0	320.5



#3
Chloromethane
Concen: 0.372 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	24.2	36.4

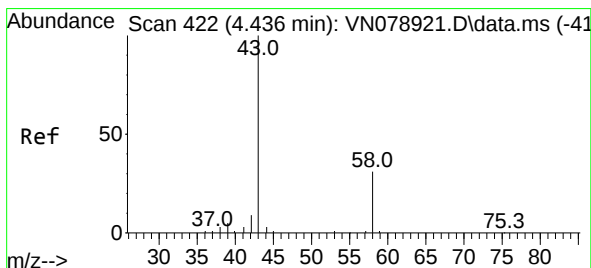
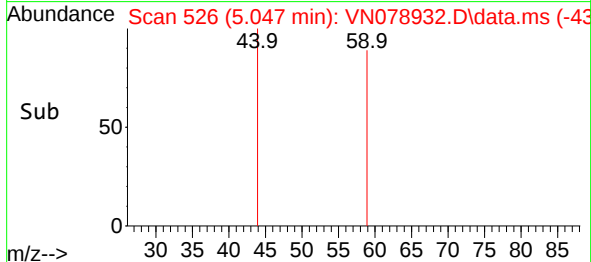
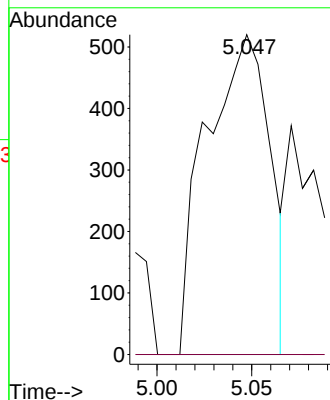
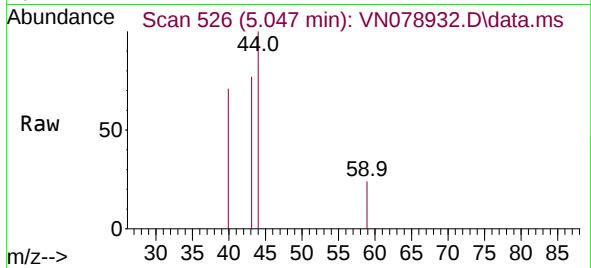




#12
Methyl Acetate
Concen: 0.249 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

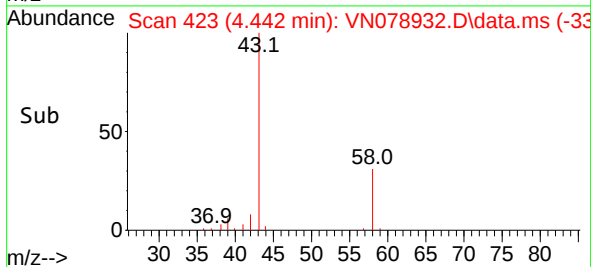
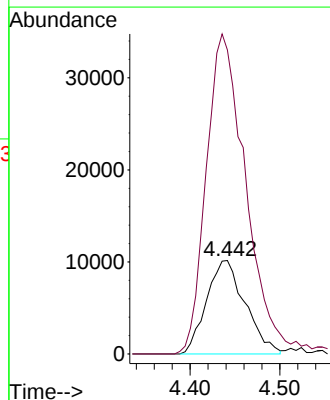
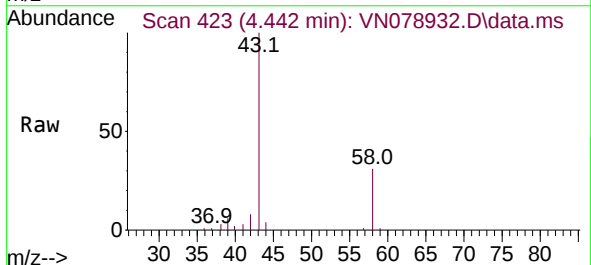
Instrument :
MSVOA_N
ClientSampleId :

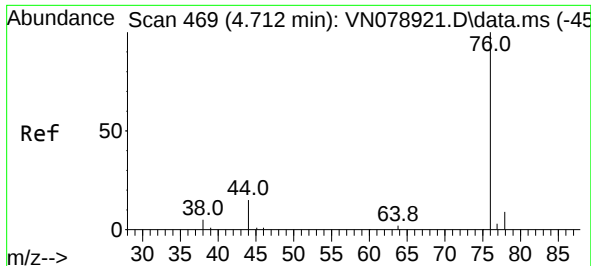
Tgt Ion: 43 Resp: 1222
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#15
Acetone
Concen: 77.050 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Tgt Ion: 58 Resp: 30463
Ion Ratio Lower Upper
58 100
43 322.5 260.6 390.8

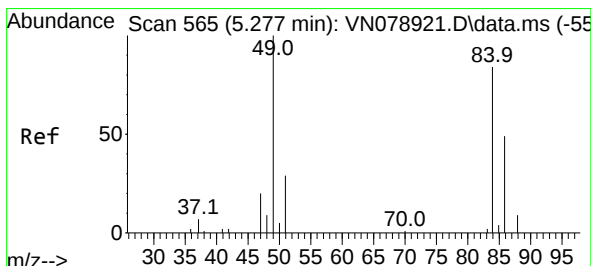
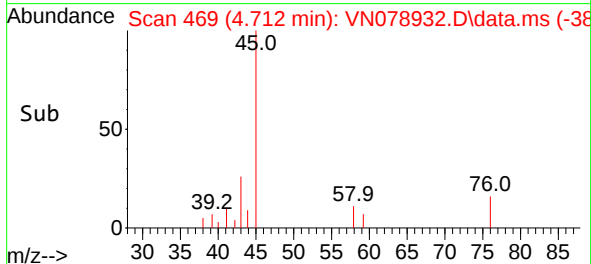
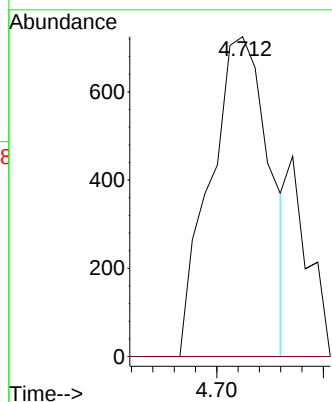
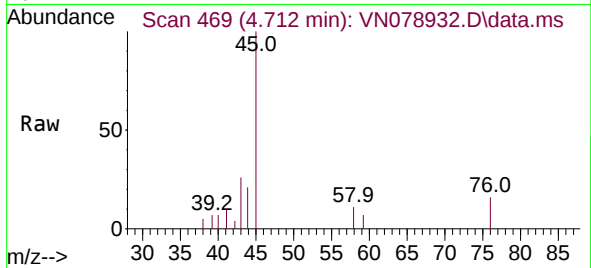




#16
Carbon Disulfide
Concen: 0.233 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

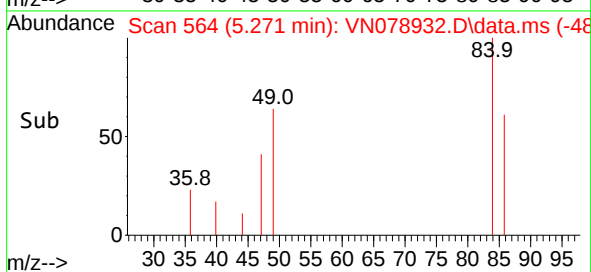
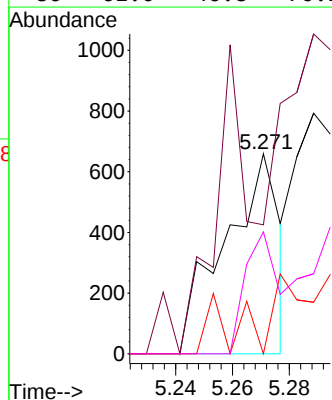
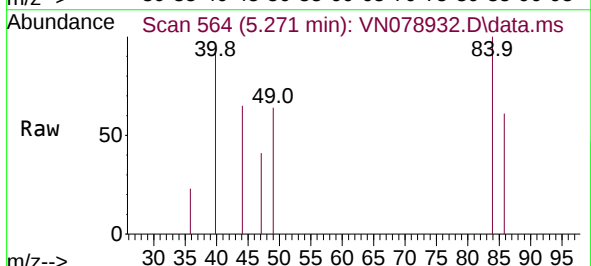
Instrument :
MSVOA_N
ClientSampleId :

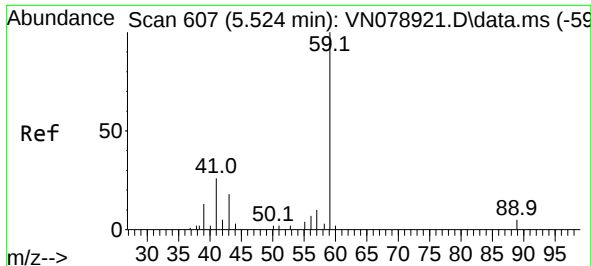
Tgt Ion: 76 Resp: 1399
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methylene Chloride
Concen: 0.353 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

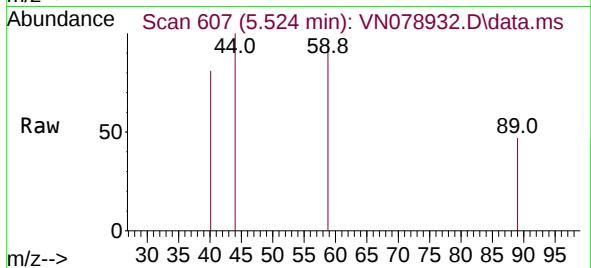
Tgt Ion: 84 Resp: 882
Ion Ratio Lower Upper
84 100
49 64.5 95.8 143.6#
51 0.0 28.6 43.0#
86 61.0 46.8 70.2



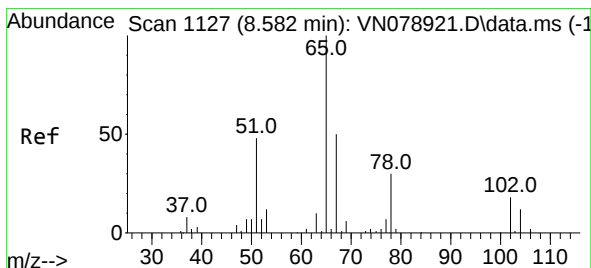
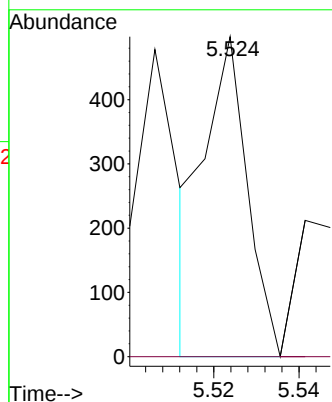
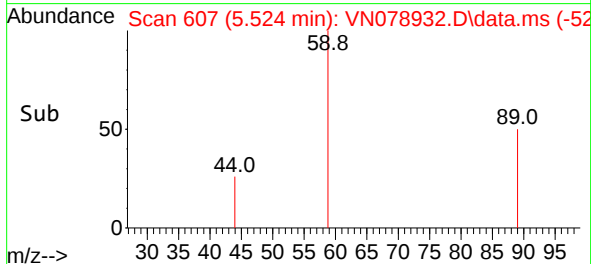


#23
tert-Butyl Alcohol
Concen: 0.713 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Instrument :
MSVOA_N
ClientSampleId :

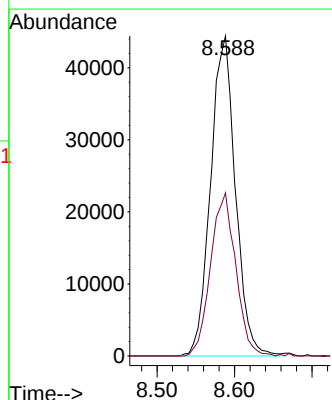
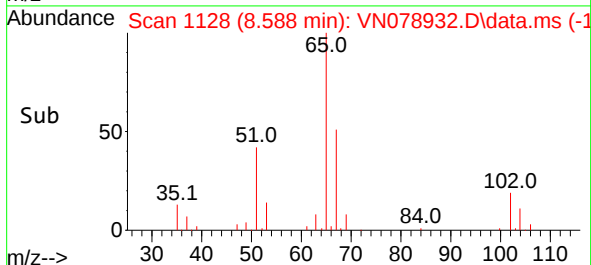
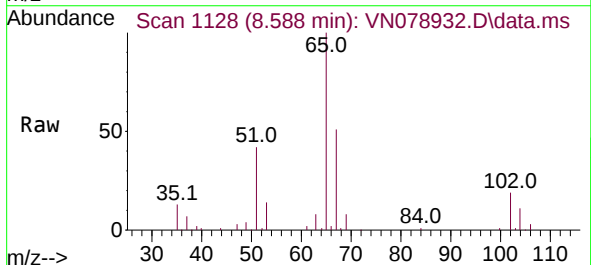


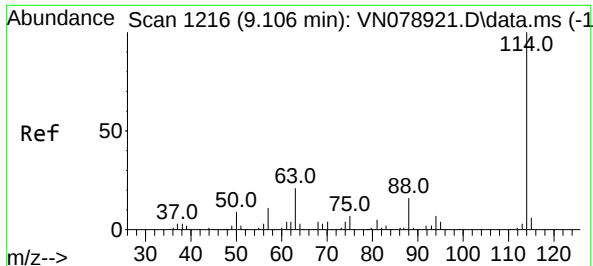
Tgt Ion: 59 Resp: 343
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.881 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Tgt Ion: 65 Resp: 98800
Ion Ratio Lower Upper
65 100
67 51.7 40.7 61.1

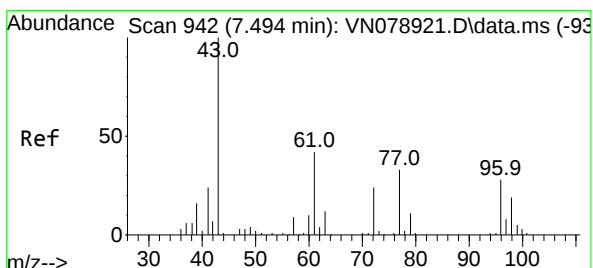
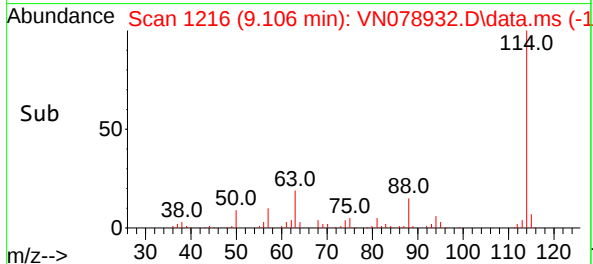
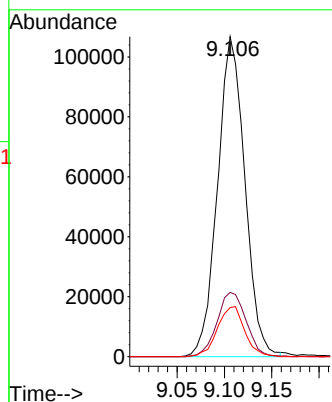
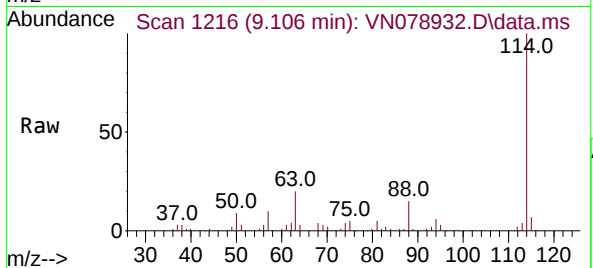




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.106 min Scan# 114
 Delta R.T. 0.000 min
 Lab File: VN078932.D
 Acq: 17 Aug 2023 17:53

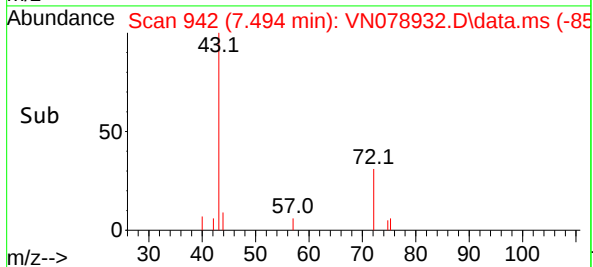
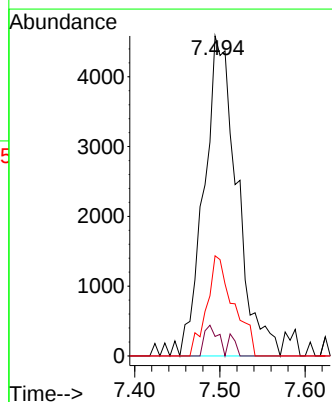
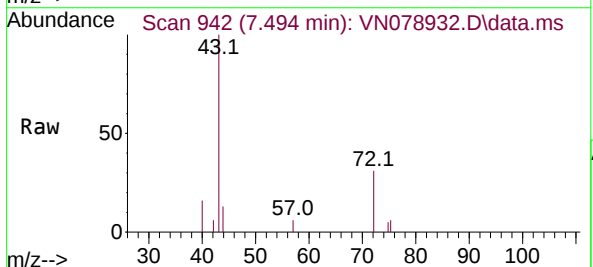
Instrument :
 MSVOA_N
 ClientSampleId :

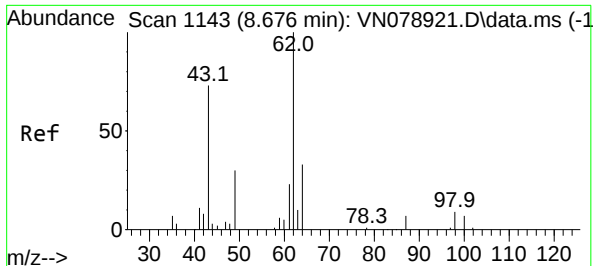
Tgt Ion:114 Resp: 214398
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.4 26.2
 88 15.6 12.0 18.0



#30
 2-Butanone
 Concen: 6.433 ug/l
 RT: 7.494 min Scan# 942
 Delta R.T. 0.000 min
 Lab File: VN078932.D
 Acq: 17 Aug 2023 17:53

Tgt Ion: 43 Resp: 12283
 Ion Ratio Lower Upper
 43 100
 57 4.0 6.2 9.4#
 72 24.3 19.4 29.2





#36

1,2-Dichloroethane

Concen: 2.336 ug/l

RT: 9.106 min Scan# 1143

Delta R.T. 0.429 min

Lab File: VN078932.D

Acq: 17 Aug 2023 17:53

Instrument :

MSVOA_N

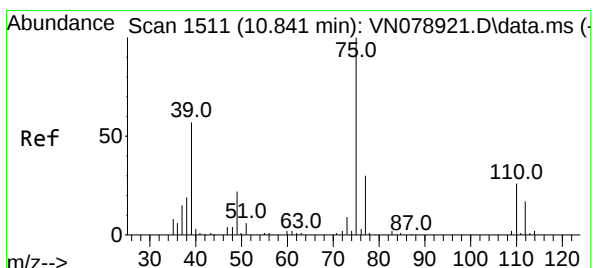
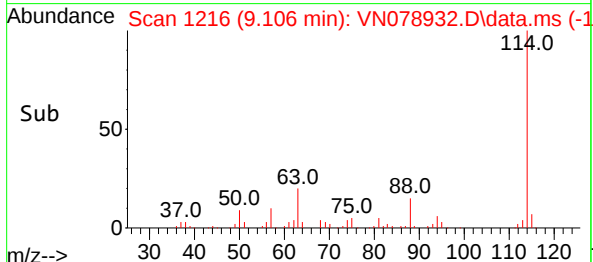
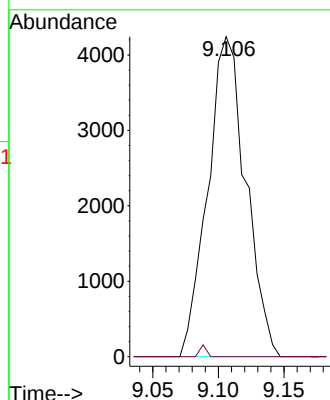
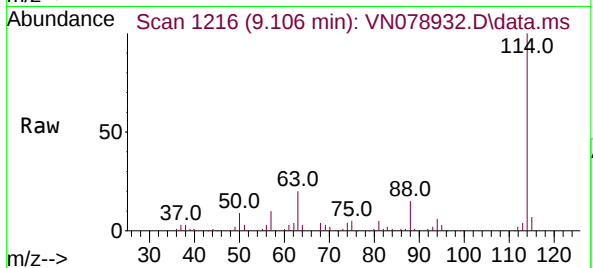
ClientSampleId :

Tgt Ion: 62 Resp: 8550

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#



#48

t-1,3-Dichloropropene

Concen: 0.934 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.206 min

Lab File: VN078932.D

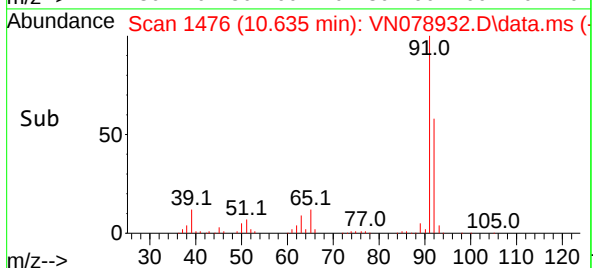
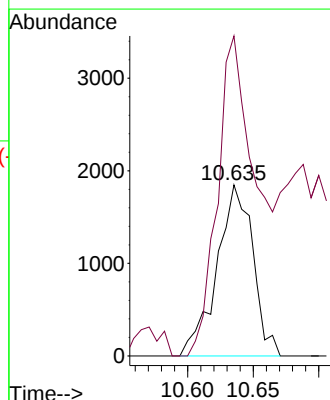
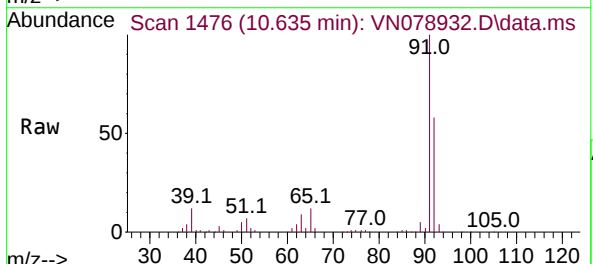
Acq: 17 Aug 2023 17:53

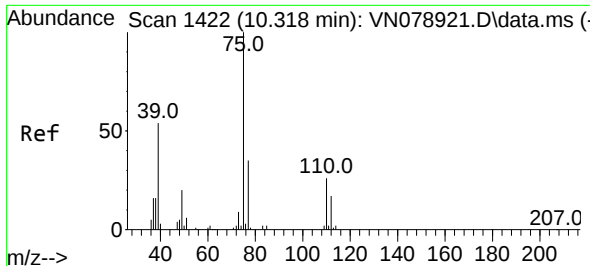
Tgt Ion: 75 Resp: 3530

Ion Ratio Lower Upper

75 100

77 187.1 23.7 35.5#





#49

cis-1,3-Dichloropropene

Concen: 0.871 ug/l

RT: 10.635 min Scan# 1493

Delta R.T. 0.318 min

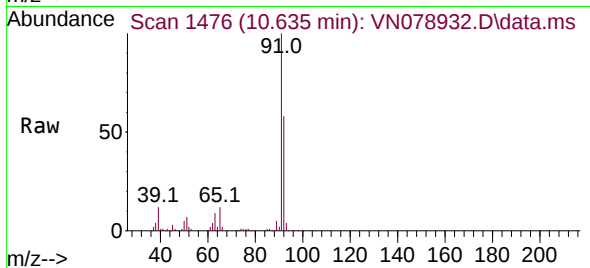
Lab File: VN078932.D

Acq: 17 Aug 2023 17:53

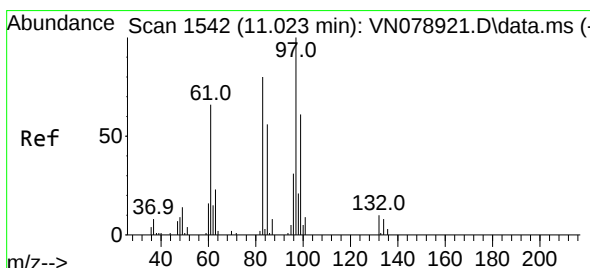
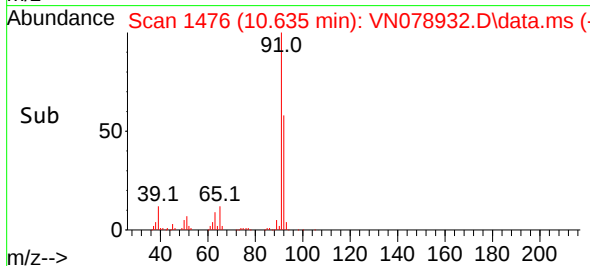
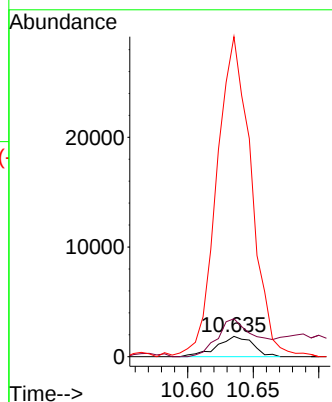
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 3530
Ion Ratio	Lower Upper
75	100
77	187.1 27.8 41.8#
39	1560.8 43.5 65.3#



#50

1,1,2-Trichloroethane

Concen: 0.351 ug/l

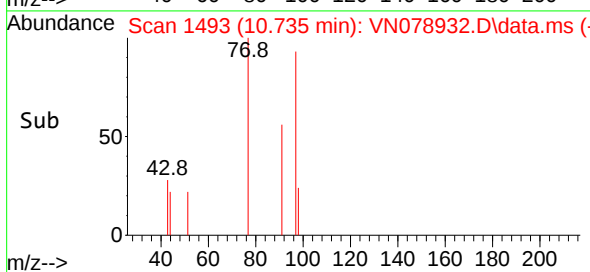
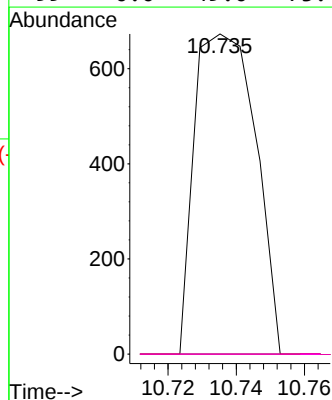
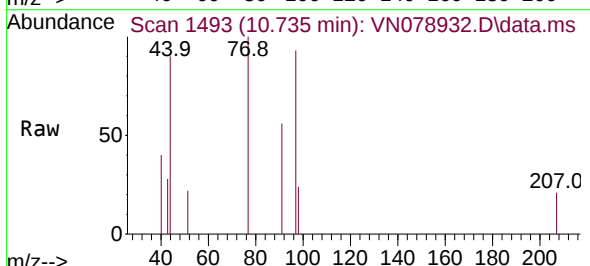
RT: 10.735 min Scan# 1493

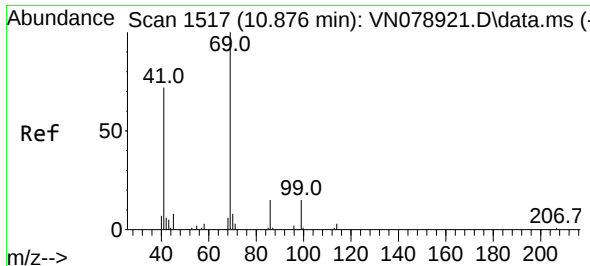
Delta R.T. -0.288 min

Lab File: VN078932.D

Acq: 17 Aug 2023 17:53

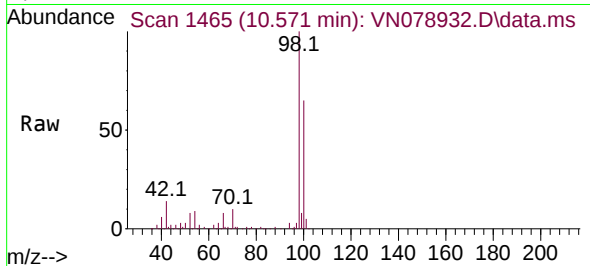
Tgt Ion: 97	Resp: 836
Ion Ratio	Lower Upper
97	100
83	0.0 63.7 95.5#
85	0.0 44.9 67.3#
99	0.0 49.0 73.4#



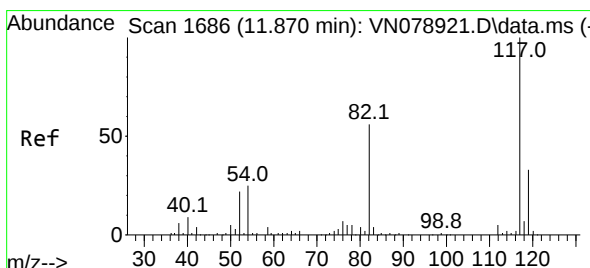
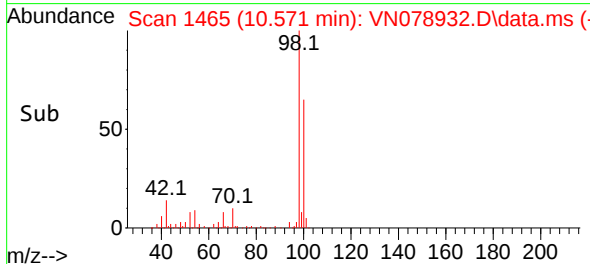
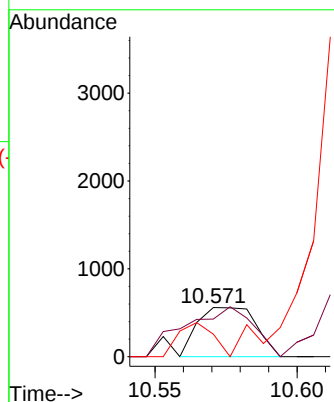


#51
Ethyl methacrylate
Concen: 0.218 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.306 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Instrument :
MSVOA_N
ClientSampleId :

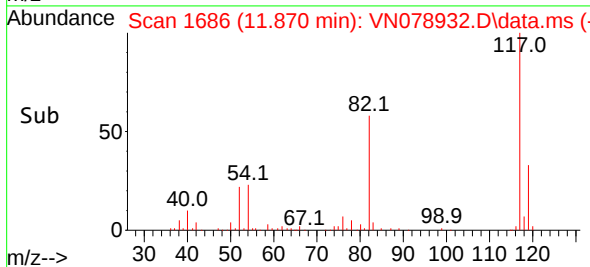
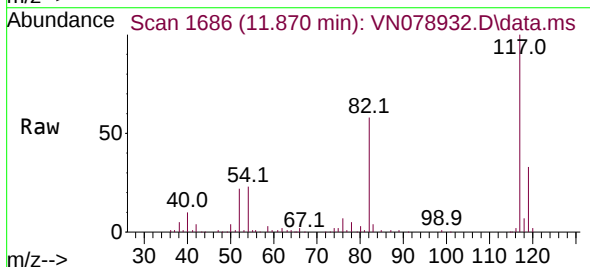
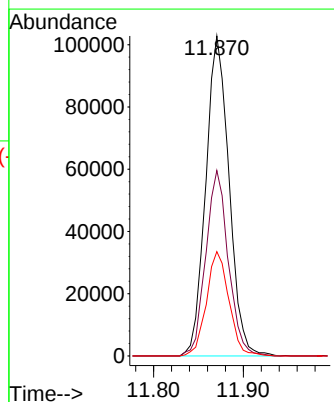


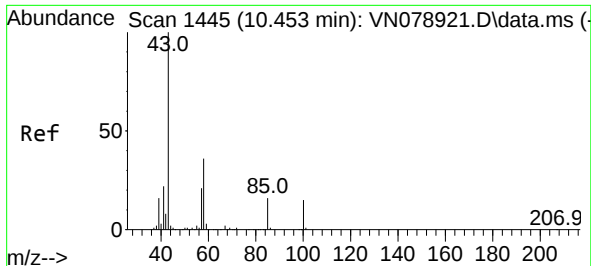
Tgt Ion: 69 Resp: 804
Ion Ratio Lower Upper
69 100
41 76.6 35.9 107.8
39 0.0 23.5 70.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

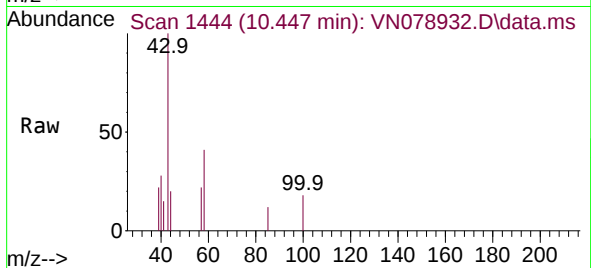
Tgt Ion: 117 Resp: 185417
Ion Ratio Lower Upper
117 100
82 56.1 43.4 65.0
119 31.5 25.5 38.3



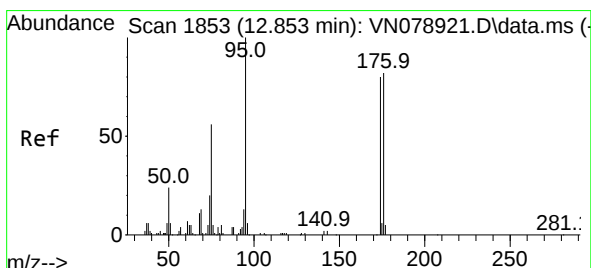
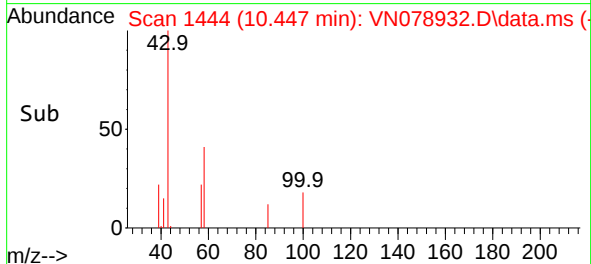
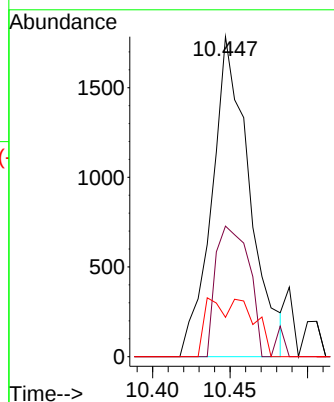


#58
4-Methyl-2-Pentanone
Concen: 0.817 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Instrument :
MSVOA_N
ClientSampleId :

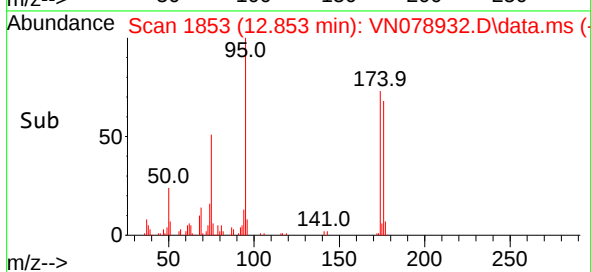
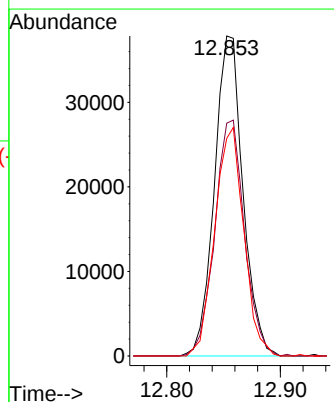
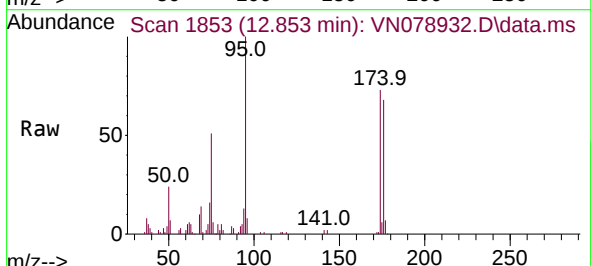


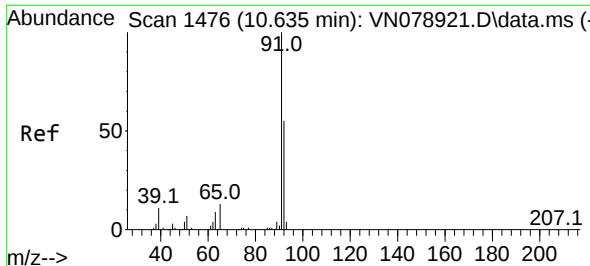
Tgt Ion: 43 Resp: 3007
Ion Ratio Lower Upper
43 100
58 36.0 28.8 43.2
85 12.1 12.7 19.1#



#60
4-Bromofluorobenzene
Concen: 24.435 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Tgt Ion: 95 Resp: 66090
Ion Ratio Lower Upper
95 100
174 76.5 64.8 97.2
176 72.6 63.0 94.6

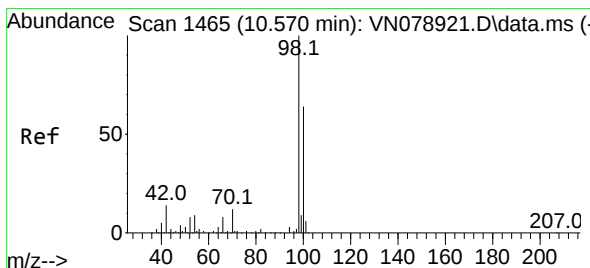
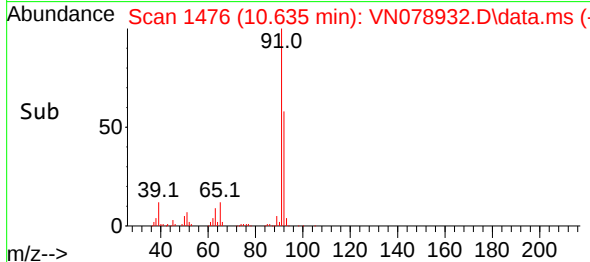
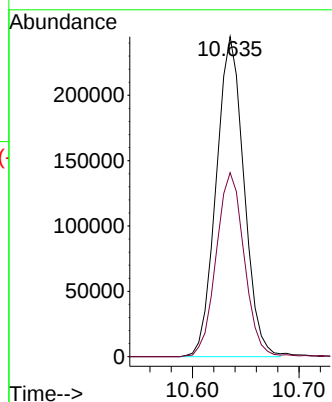
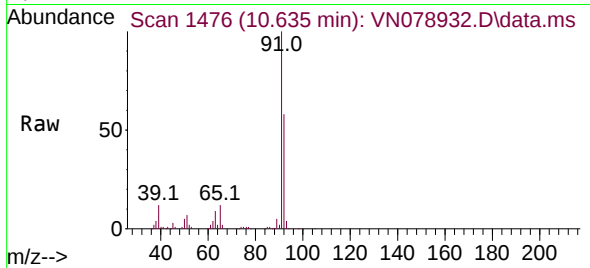




#62
Toluene
Concen: 43.749 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

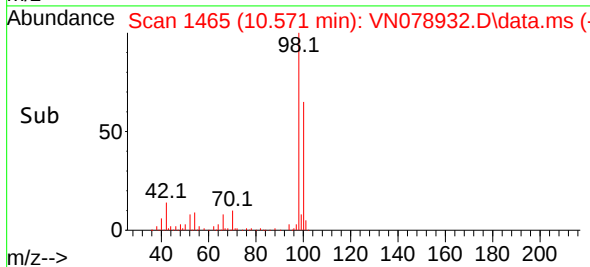
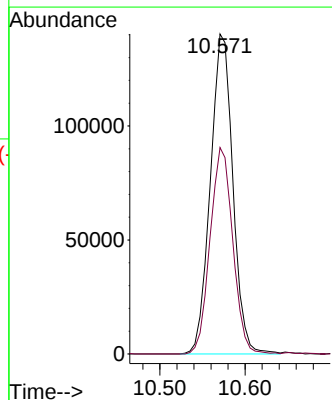
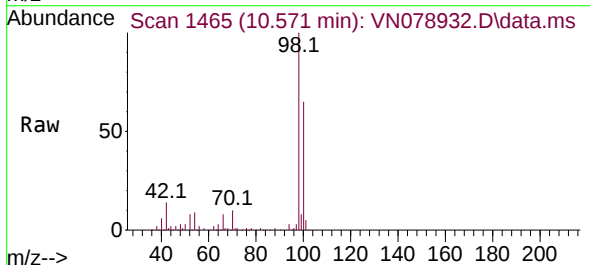
Instrument :
MSVOA_N
ClientSampleId :

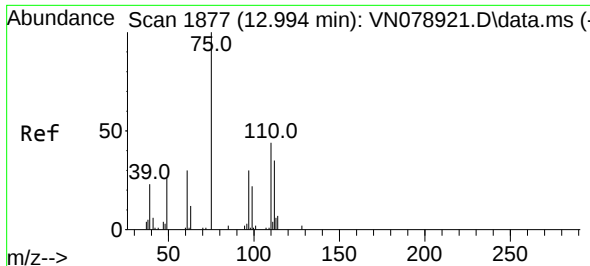
Tgt Ion: 91 Resp: 442863
Ion Ratio Lower Upper
91 100
92 57.9 44.7 67.1



#63
Toluene-d8
Concen: 29.748 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Tgt Ion: 98 Resp: 257586
Ion Ratio Lower Upper
98 100
100 65.0 51.1 76.7

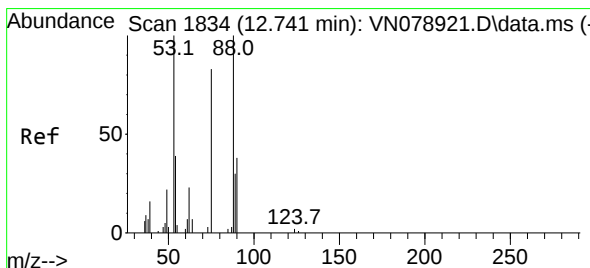
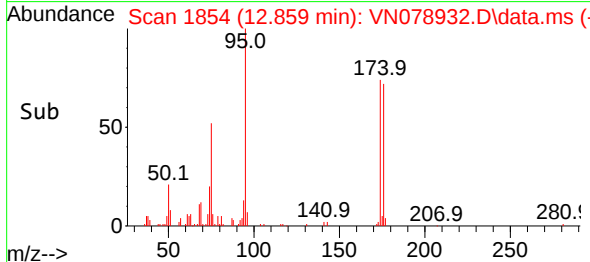
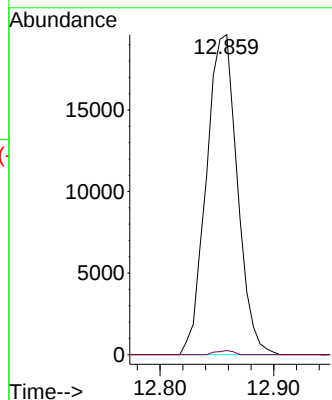
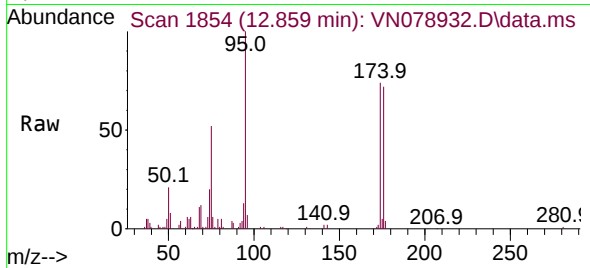




#72
1,2,3-Trichloropropane
Concen: 12.847 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.135 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

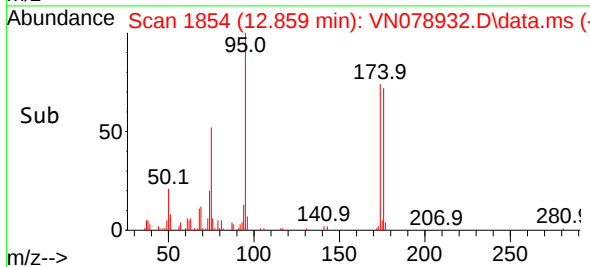
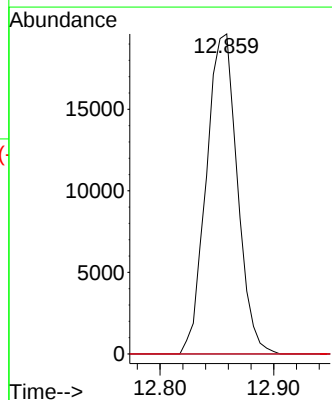
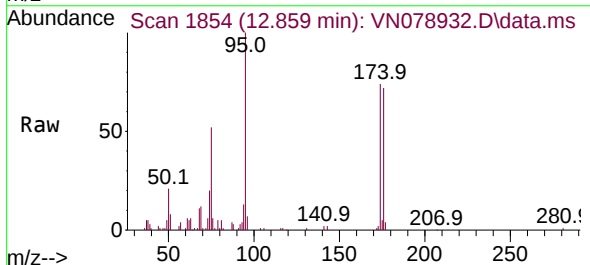
Instrument :
MSVOA_N
ClientSampleId :

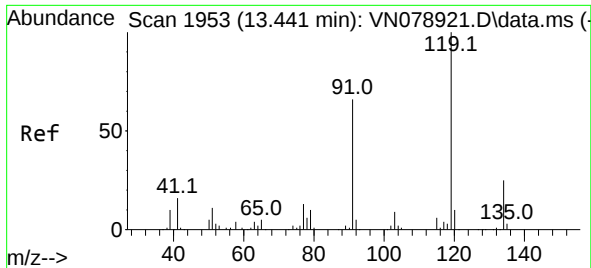
Tgt Ion: 75 Resp: 37264
Ion Ratio Lower Upper
75 100
77 0.7 0.0 367.4



#77
t-1,4-Dichloro-2-butene
Concen: 34.569 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078932.D
Acq: 17 Aug 2023 17:53

Tgt Ion: 75 Resp: 37264
Ion Ratio Lower Upper
75 100
53 0.0 60.1 180.3#
89 0.0 22.9 68.8#





#79

tert-butylbenzene

Concen: 0.408 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.288 min

Lab File: VN078932.D

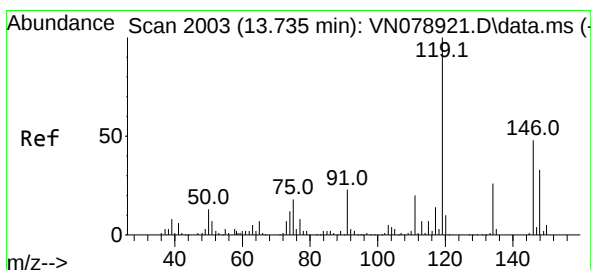
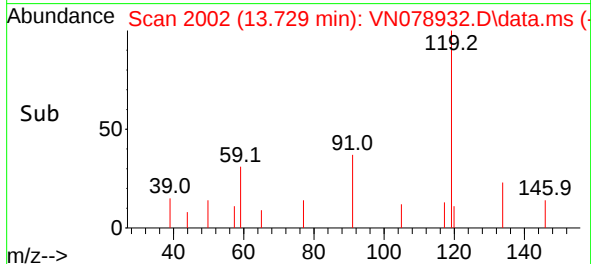
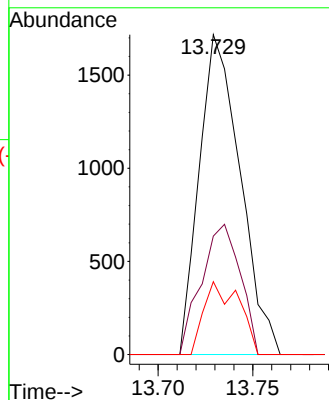
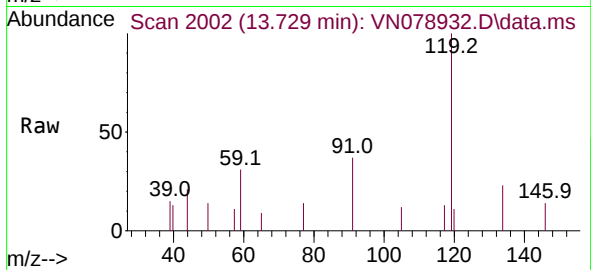
Acq: 17 Aug 2023 17:53

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:119	Resp:	2579
Ion Ratio	Lower	Upper
119	100	
91	38.8	0.0 135.6
134	19.6	0.0 51.4



#82

p-Isopropyltoluene

Concen: 0.379 ug/l

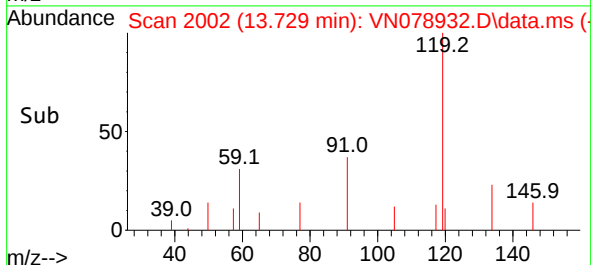
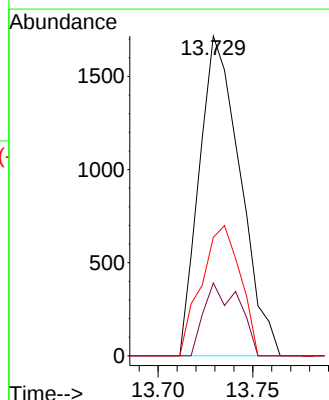
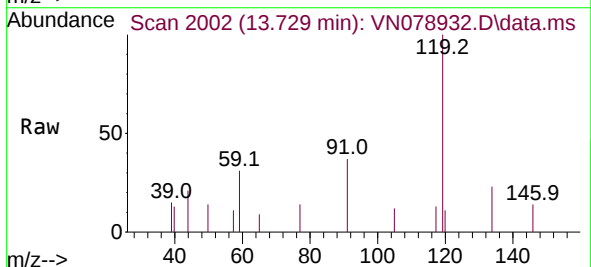
RT: 13.729 min Scan# 2002

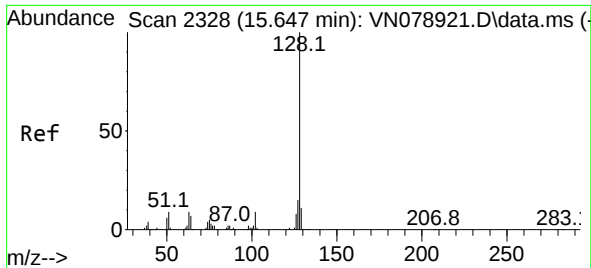
Delta R.T. -0.006 min

Lab File: VN078932.D

Acq: 17 Aug 2023 17:53

Tgt Ion:119	Resp:	2579
Ion Ratio	Lower	Upper
119	100	
134	19.6	0.0 52.4
91	38.8	0.0 47.4





#91

Naphthalene

Concen: 0.269 ug/l

RT: 15.653 min Scan# 21

Delta R.T. 0.006 min

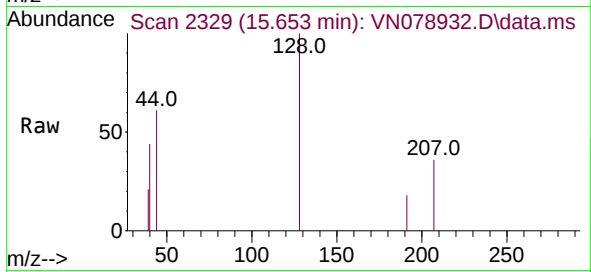
Lab File: VN078932.D

Acq: 17 Aug 2023 17:53

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 1217

Ion Ratio Lower Upper

128 100

127 0.0 11.1 16.7#

129 0.0 8.6 13.0#

