

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078262.D
 Acq On : 16 Jun 2023 16:05
 Operator : JC\MD
 Sample : 03229-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-402-VOC-10

Quant Time: Jun 17 02:25:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

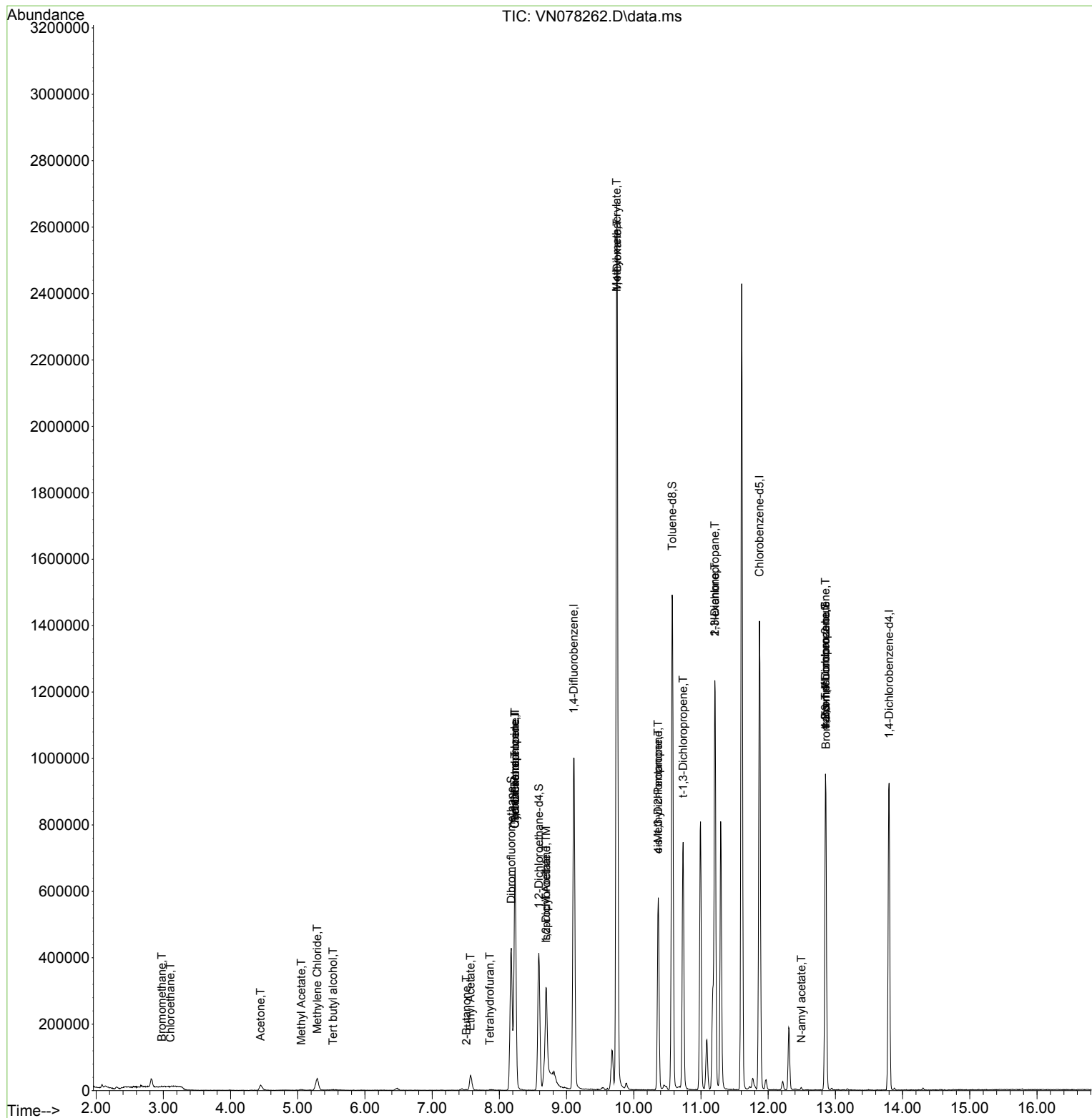
Internal Standards						
1) Pentafluorobenzene	8.235	168	474469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	900315	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	821051	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	253733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	339828	53.718	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.440%			
35) Dibromofluoromethane	8.177	113	306091	53.770	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.540%			
50) Toluene-d8	10.571	98	1070466	48.779	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.560%			
62) 4-Bromofluorobenzene	12.853	95	329046	48.231	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.460%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	992	Below Cal		89
5) Bromomethane	2.977	94	1214	0.229 ug/l #		62
6) Chloroethane	3.106	64	3022	0.631 ug/l #		43
11) Tert butyl alcohol	5.524	59	678	0.776 ug/l #		72
16) Acetone	4.447	43	28288	15.535 ug/l		90
18) Methyl Acetate	5.053	43	4069	0.485 ug/l #		61
20) Methylene Chloride	5.289	84	29322	4.873 ug/l #		88
25) 2-Butanone	7.512	43	2665	0.952 ug/l #		37
29) Tetrahydrofuran	7.859	42	1350	0.721 ug/l #		75
31) Cyclohexane	8.229	56	11883	1.464 ug/l #		43
36) 1,1-Dichloropropene	8.235	75	41499	5.082 ug/l #		49
37) Ethyl Acetate	7.571	43	66271	10.389 ug/l		96
38) Carbon Tetrachloride	8.229	117	51439	5.966 ug/l #		15
42) 1,2-Dichloroethane	8.694	62	2664	0.319 ug/l #		73
43) Isopropyl Acetate	8.694	43	415184	34.034 ug/l #		73
48) Methyl methacrylate	9.747	41	243674	47.598 ug/l #		28
49) 1,4-Dioxane	9.753	88	451	4.191 ug/l #		1
51) 4-Methyl-2-Pentanone	10.365	43	206775	32.188 ug/l #		41
53) t-1,3-Dichloropropene	10.735	75	2784	0.322 ug/l #		46
54) cis-1,3-Dichloropropene	10.365	75	110830	11.602 ug/l #		72
57) 1,3-Dichloropropane	11.206	76	13178	1.341 ug/l #		42
59) 2-Hexanone	11.206	43	160071	35.787 ug/l #		47
71) Bromoform	12.859	173	2472	0.592 ug/l #		1
74) N-amyl acetate	12.494	43	3263	0.413 ug/l #		39
75) 1,1,2,2-Tetrachloroethane	12.959	83	58	Below Cal #		26
76) 1,2,3-Trichloropropane	12.853	75	180212	30.044 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	180212	92.304 ug/l #		15

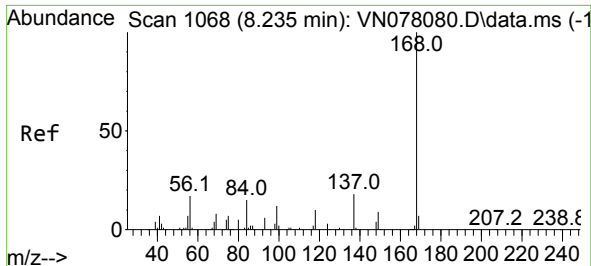
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

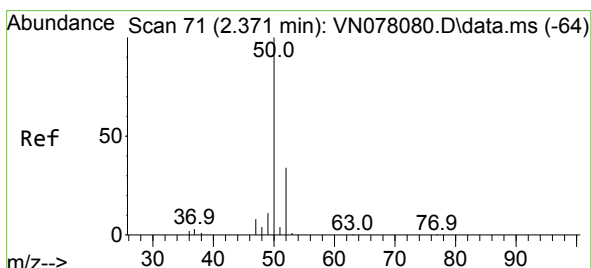
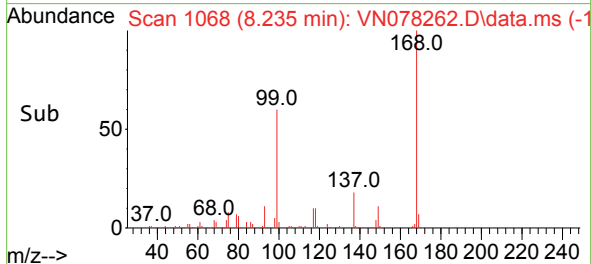
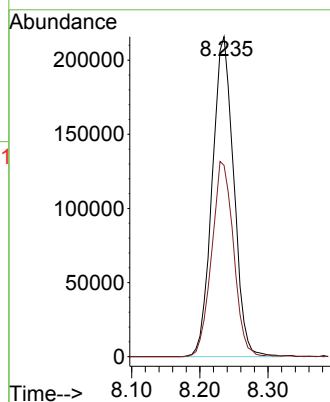
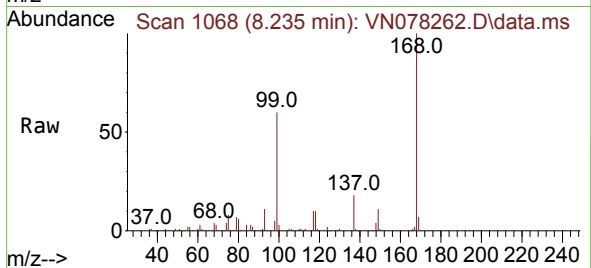




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

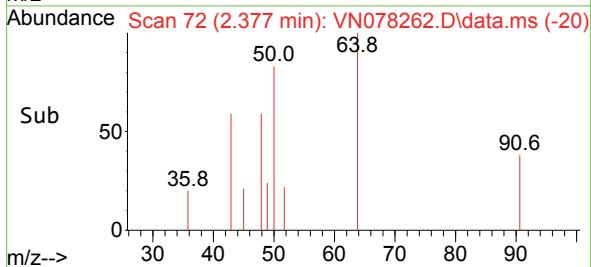
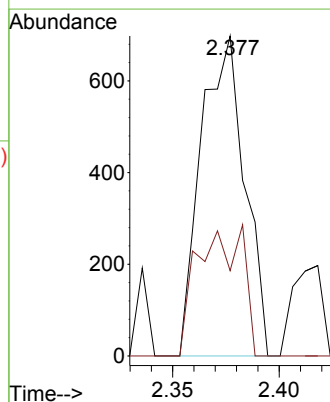
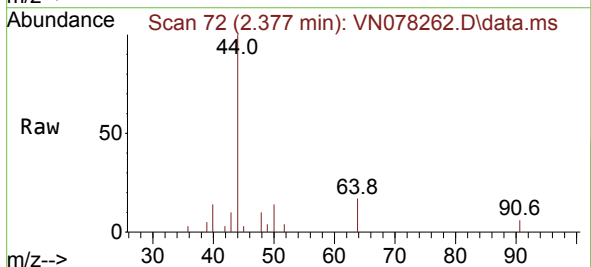
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

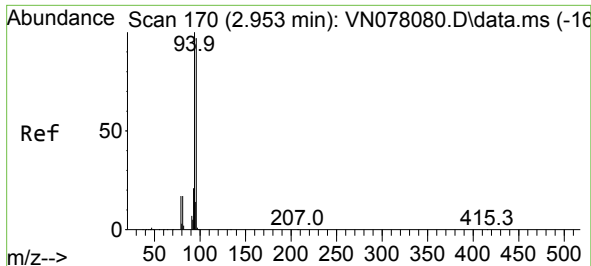
Tgt Ion:168 Resp: 474469
Ion Ratio Lower Upper
168 100
99 59.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 50 Resp: 992
Ion Ratio Lower Upper
50 100
52 26.6 26.5 39.7

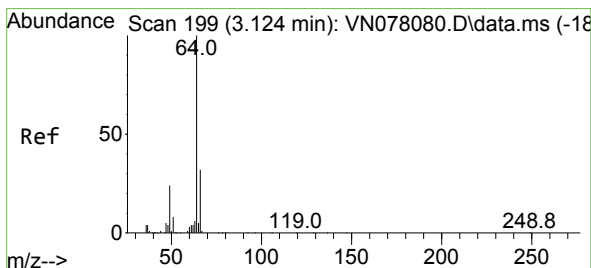
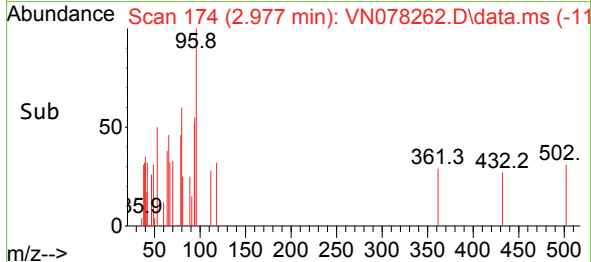
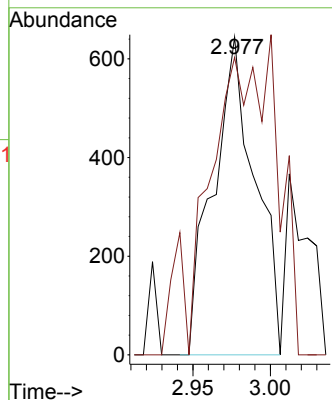
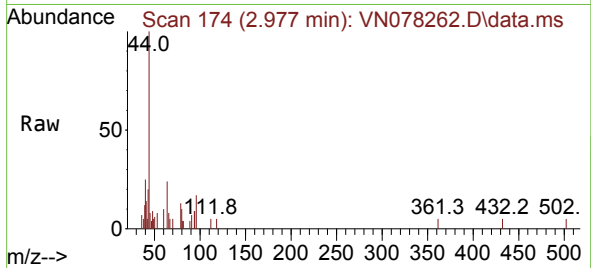




#5
Bromomethane
Concen: 0.229 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

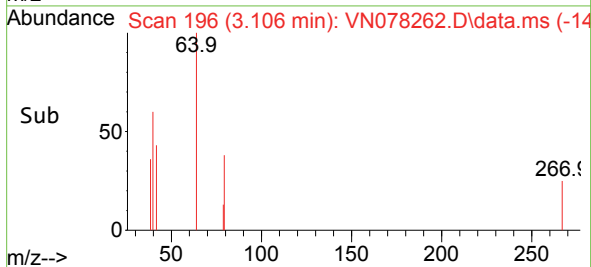
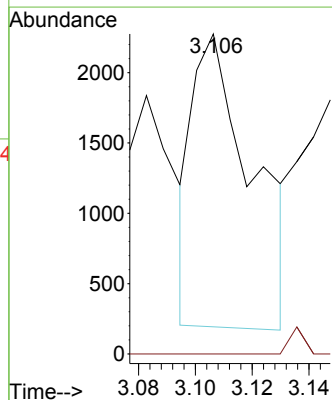
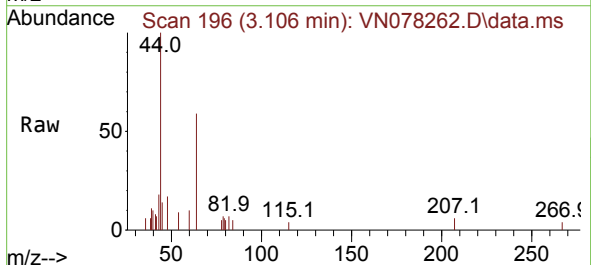
Instrument :
MSVOA_N
ClientSampleId :
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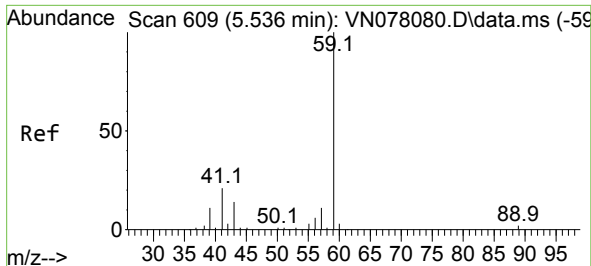
Tgt Ion: 94 Resp: 1214
Ion Ratio Lower Upper
94 100
96 55.1 73.1 109.7#



#6
Chloroethane
Concen: 0.631 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.018 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 64 Resp: 3022
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

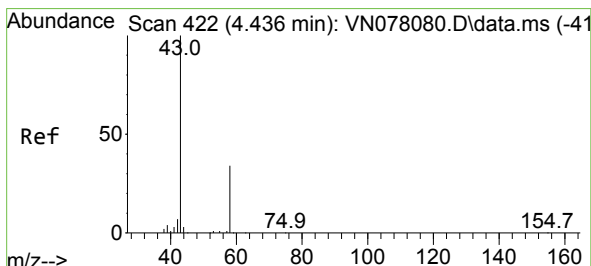
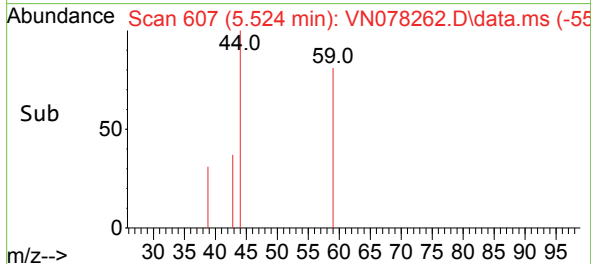
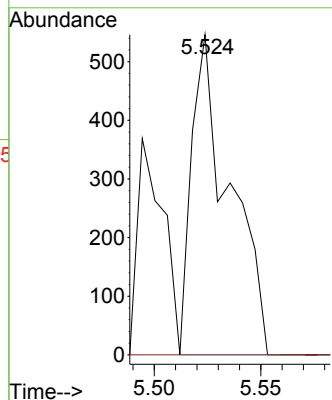
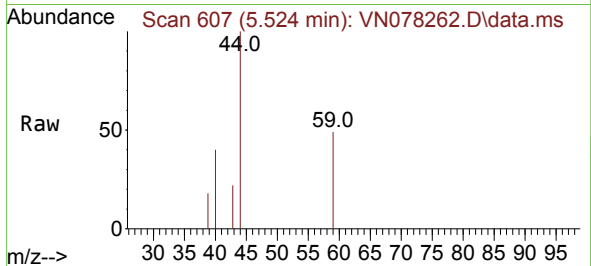




#11
Tert butyl alcohol
Concen: 0.776 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

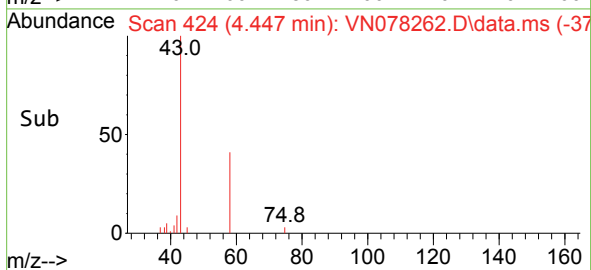
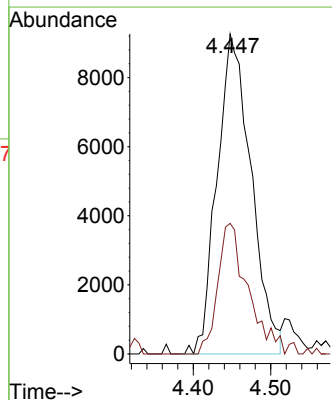
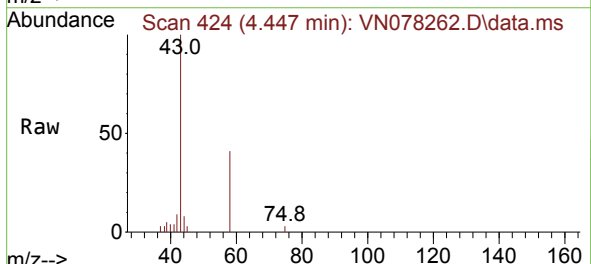
Instrument :
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OR-402-VOC-10

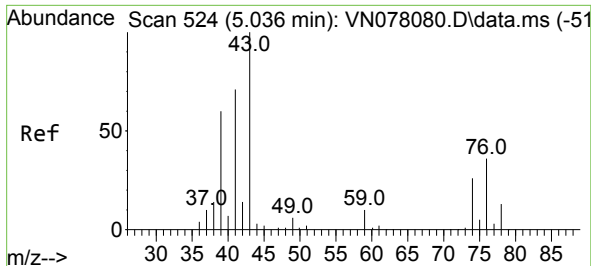
Tgt Ion: 59 Resp: 678
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 15.535 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 43 Resp: 28288
Ion Ratio Lower Upper
43 100
58 40.8 28.0 42.0

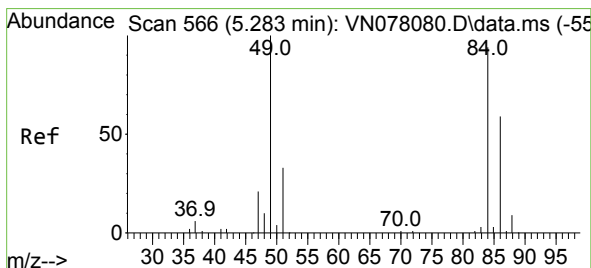
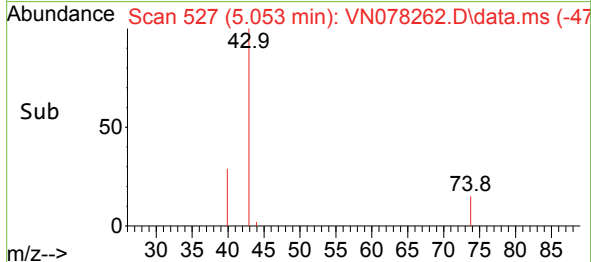
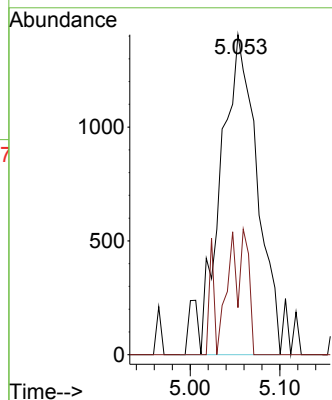
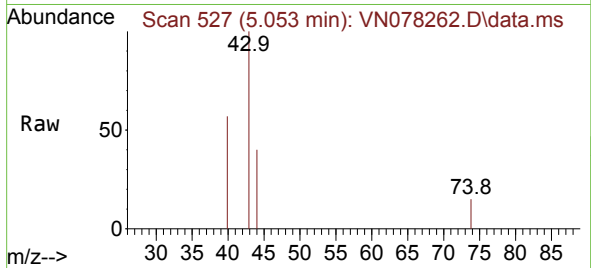




#18
Methyl Acetate
Concen: 0.485 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

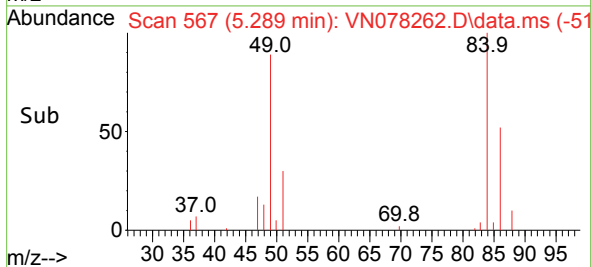
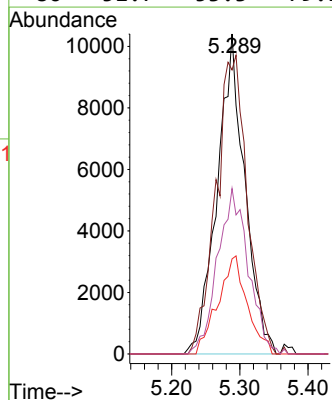
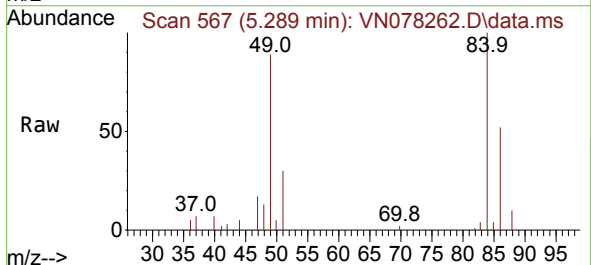
Instrument :
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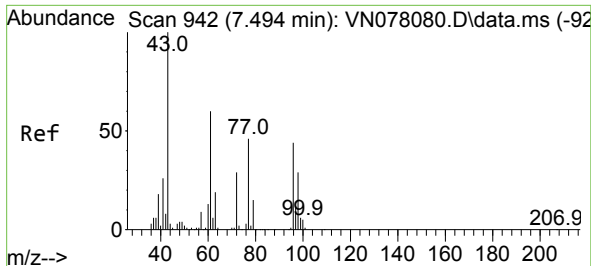
Tgt Ion: 43 Resp: 4069
Ion Ratio Lower Upper
43 100
74 10.8 26.2 39.4#



#20
Methylene Chloride
Concen: 4.873 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 84 Resp: 29322
Ion Ratio Lower Upper
84 100
49 88.8 79.7 119.5
51 29.7 25.2 37.8
86 51.7 53.3 79.9#

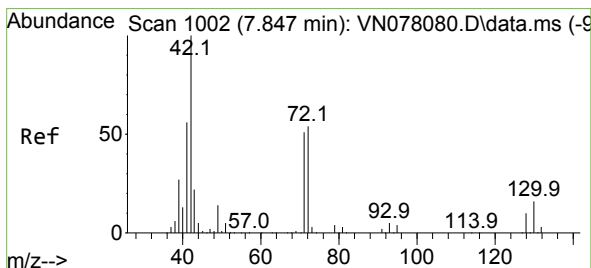
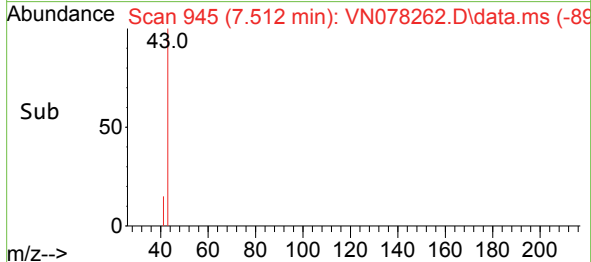
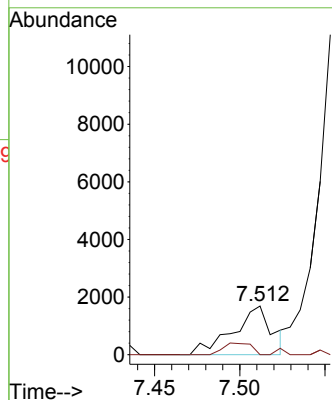
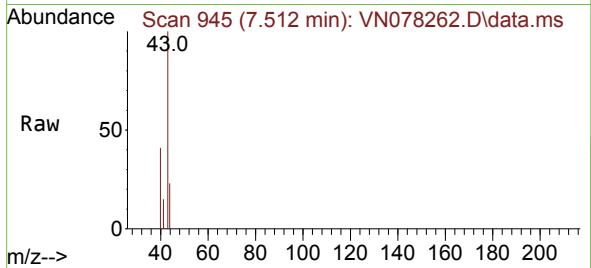




#25
2-Butanone
Concen: 0.952 ug/l
RT: 7.512 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

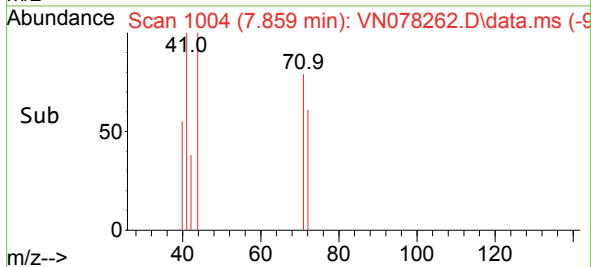
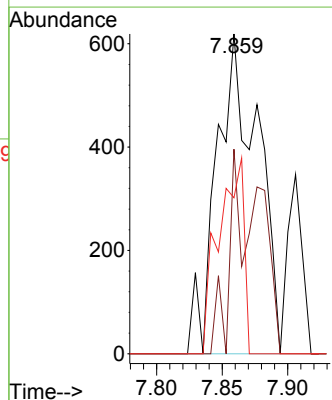
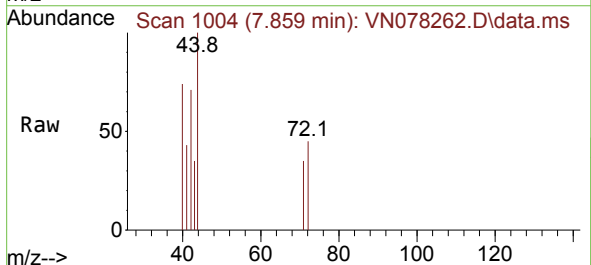
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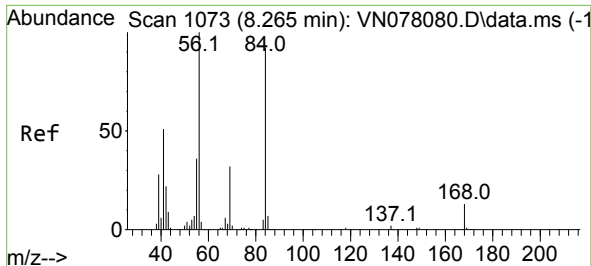
Tgt Ion: 43 Resp: 2665
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.721 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 42 Resp: 1350
Ion Ratio Lower Upper
42 100
72 45.9 49.8 74.6#
71 37.4 47.4 71.2#

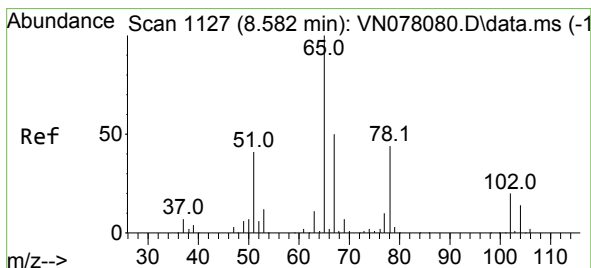
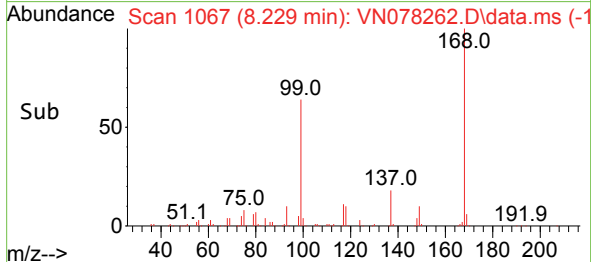
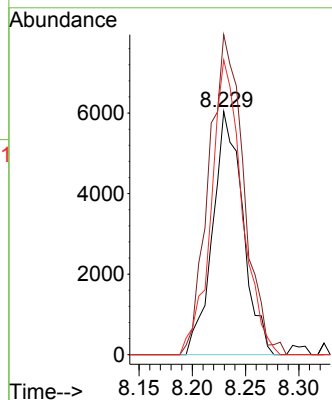
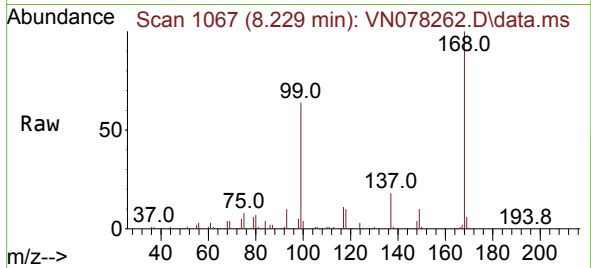




#31
Cyclohexane
Concen: 1.464 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

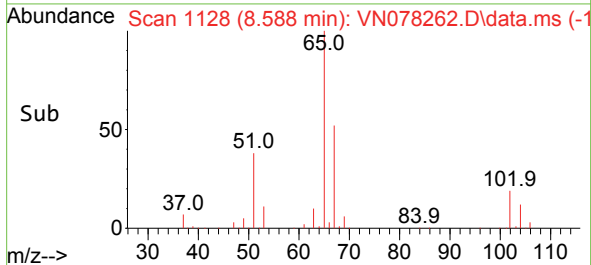
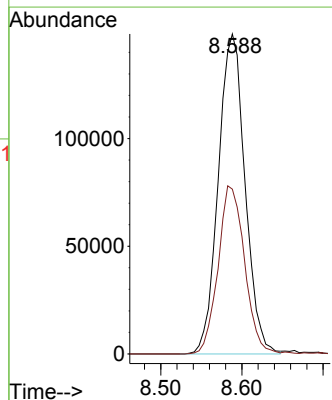
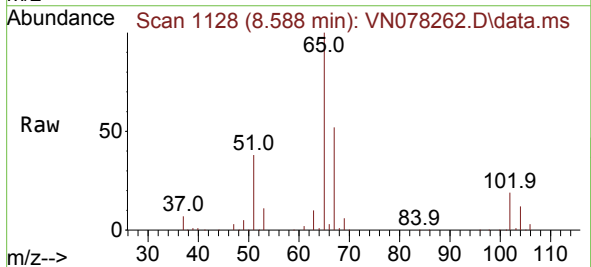
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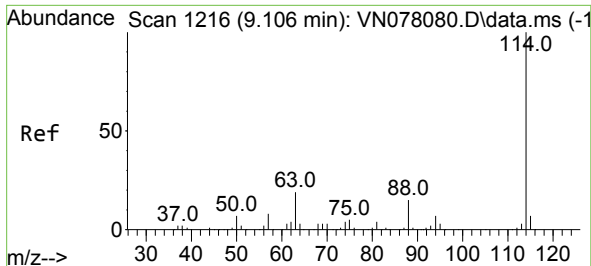
Tgt Ion: 56 Resp: 11883
Ion Ratio Lower Upper
56 100
69 131.6 26.8 40.2#
84 121.2 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.718 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 65 Resp: 339828
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6

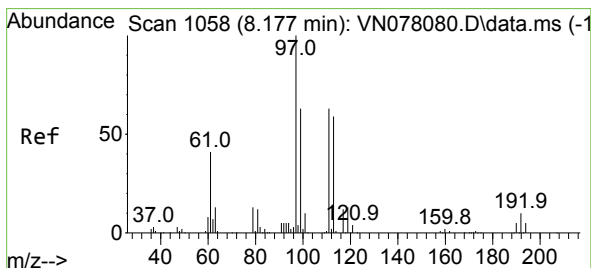
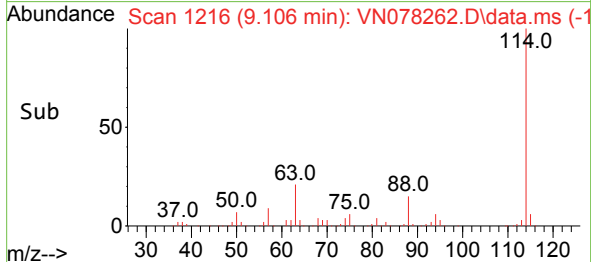
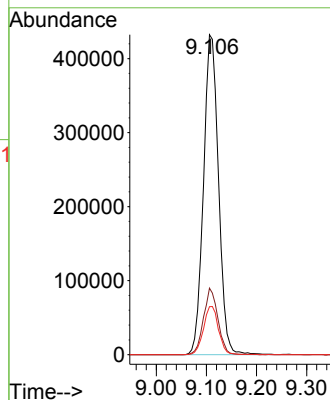
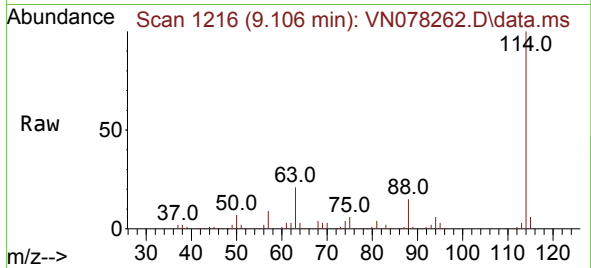




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

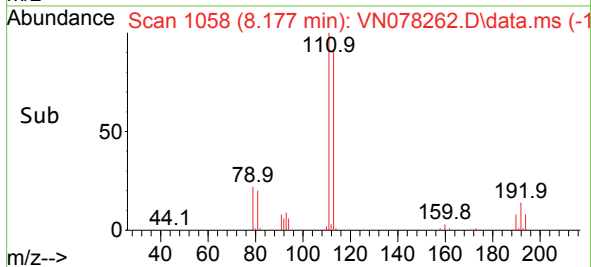
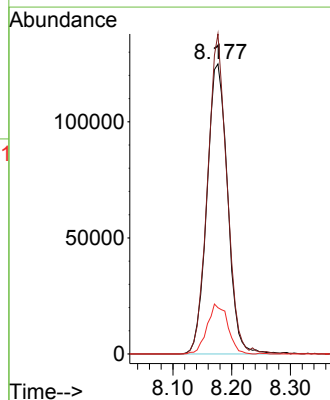
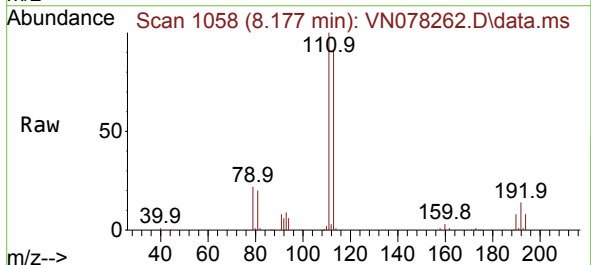
Instrument :
MSVOA_N
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OR-402-VOC-10

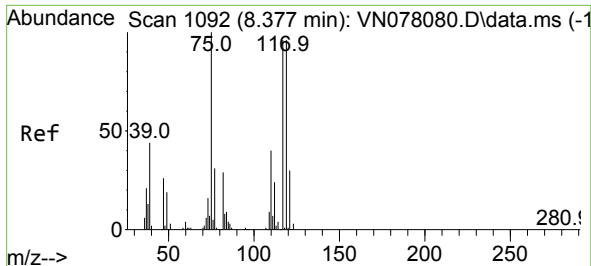
Tgt Ion:114 Resp: 900315
Ion Ratio Lower Upper
114 100
63 20.8 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 53.770 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion:113 Resp: 306091
Ion Ratio Lower Upper
113 100
111 103.6 82.6 123.8
192 17.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.082 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078262.D

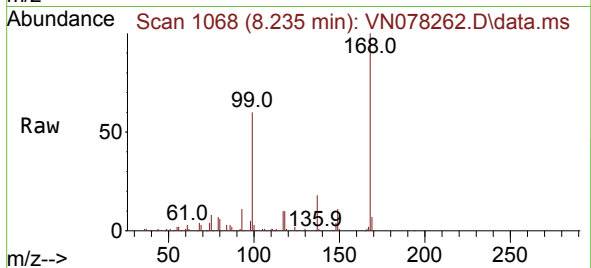
Acq: 16 Jun 2023 16:05

Instrument :

MSVOA_N

ClientSampleId :

OR-402-VOC-10



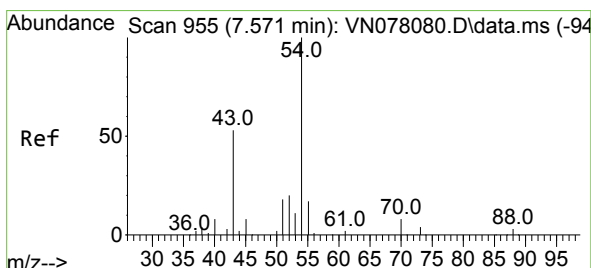
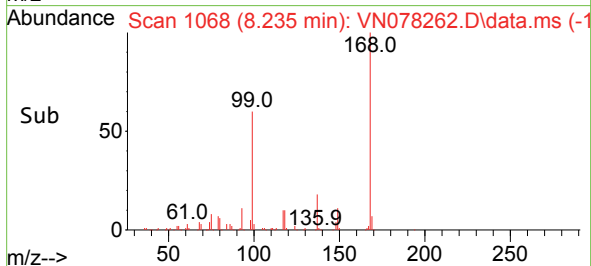
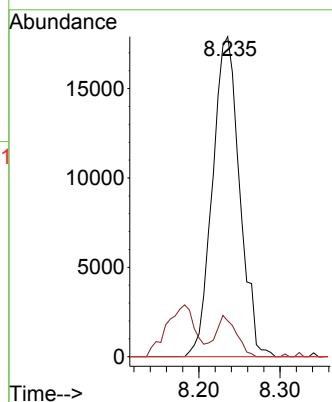
Tgt Ion: 75 Resp: 41499

Ion Ratio Lower Upper

75 100

110 10.1 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.389 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN078262.D

Acq: 16 Jun 2023 16:05

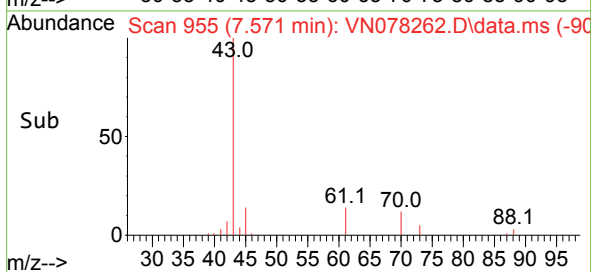
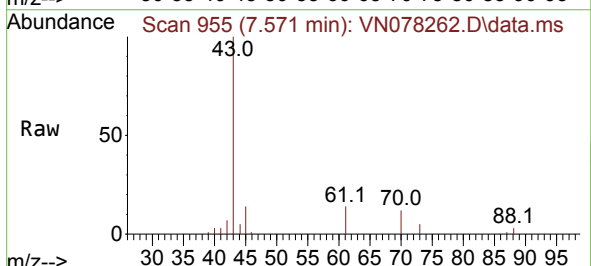
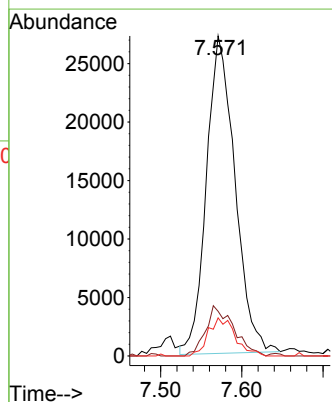
Tgt Ion: 43 Resp: 66271

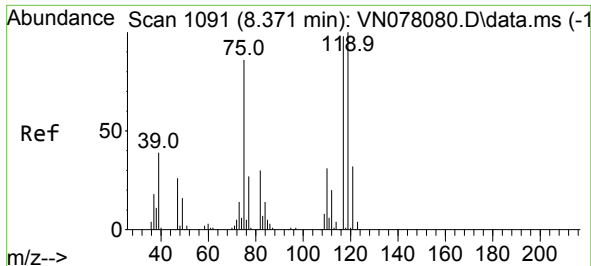
Ion Ratio Lower Upper

43 100

61 15.6 13.2 19.8

70 11.3 11.3 16.9

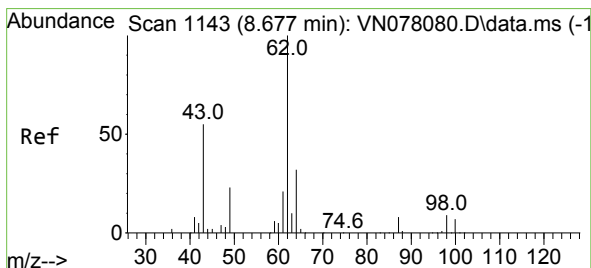
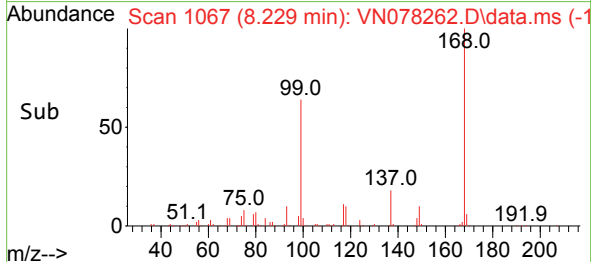
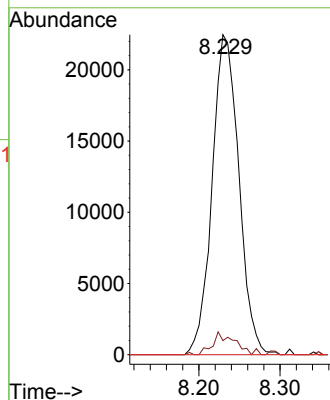
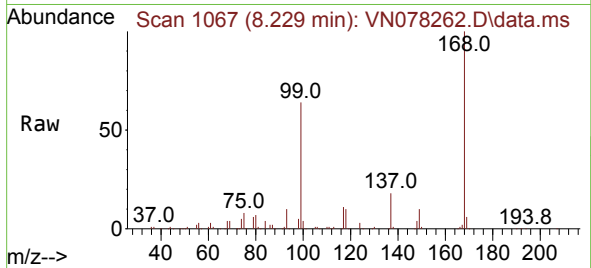




#38
Carbon Tetrachloride
Concen: 5.966 ug/l
RT: 8.229 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

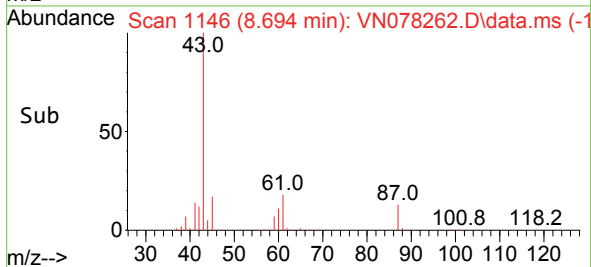
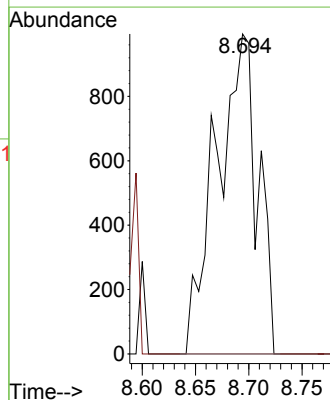
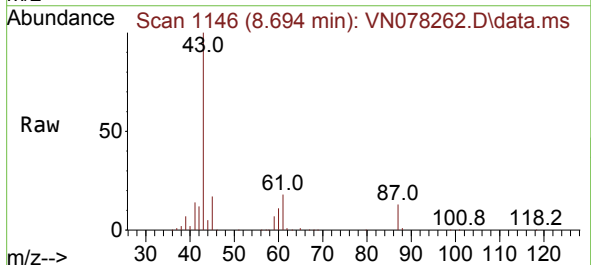
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

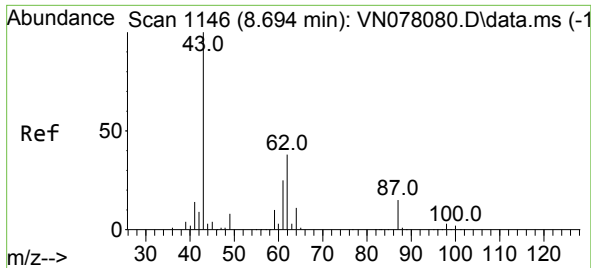
Tgt Ion:117 Resp: 51439
Ion Ratio Lower Upper
117 100
119 4.4 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.319 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.018 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 62 Resp: 2664
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

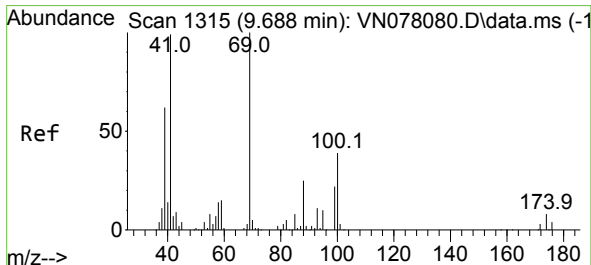
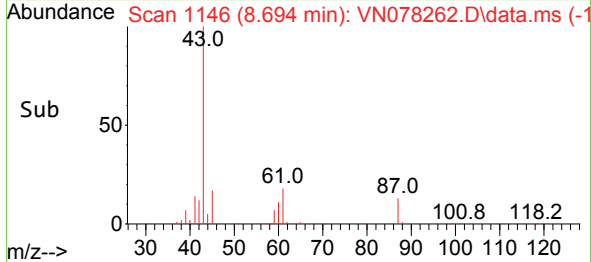
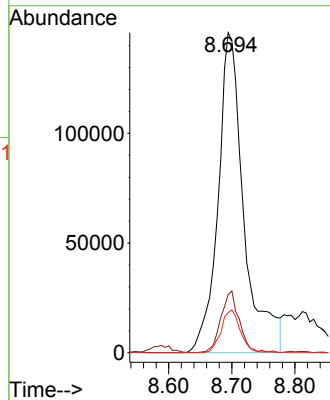
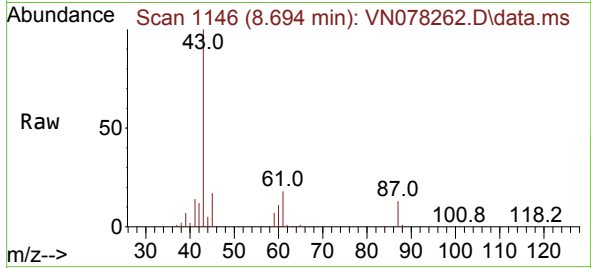




#43
Isopropyl Acetate
Concen: 34.034 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

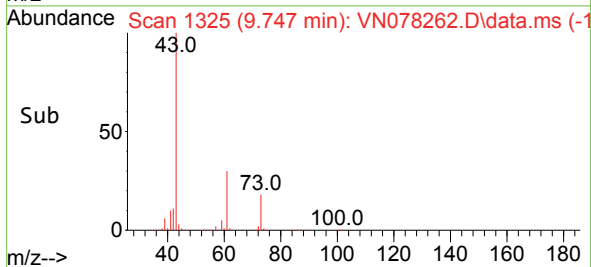
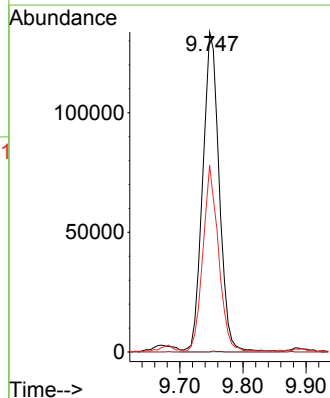
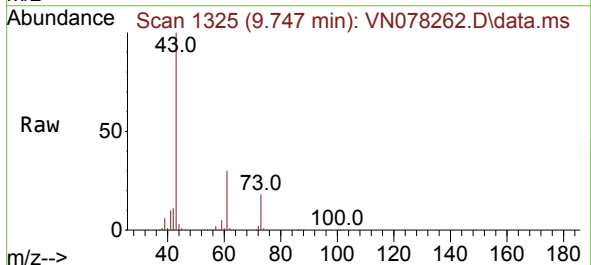
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

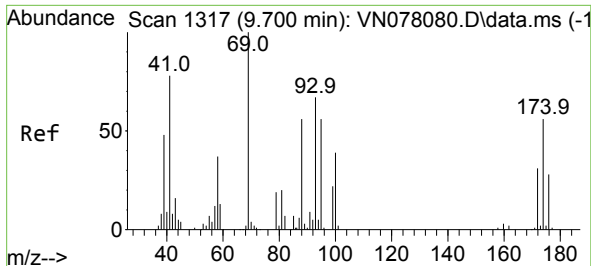
Tgt Ion: 43 Resp: 415184
Ion Ratio Lower Upper
43 100
61 13.8 24.7 37.1#
87 9.9 14.6 21.8#



#48
Methyl methacrylate
Concen: 47.598 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 41 Resp: 243674
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 54.5 54.6 81.8#

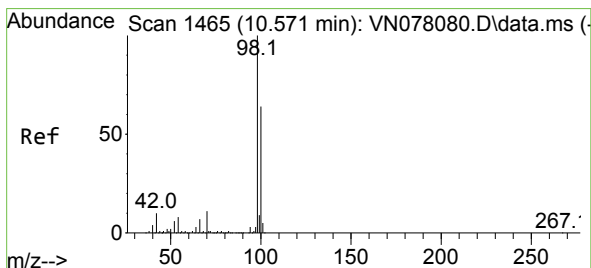
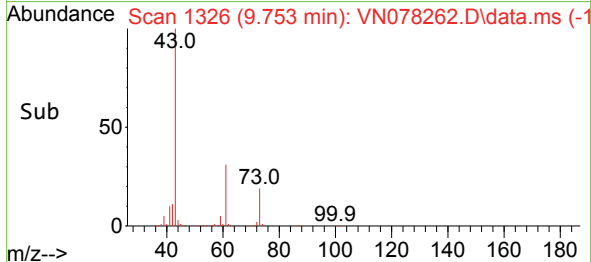
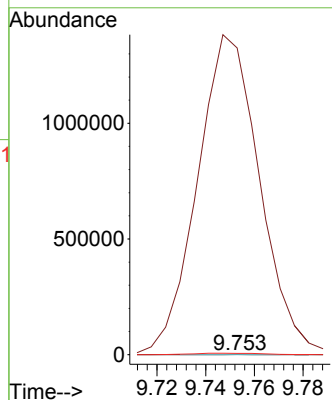
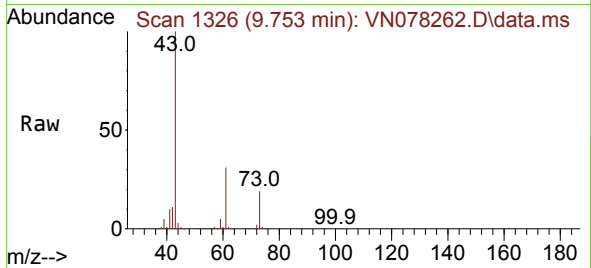




#49
1,4-Dioxane
Concen: 4.191 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.053 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

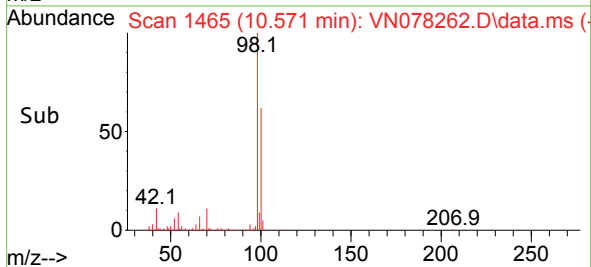
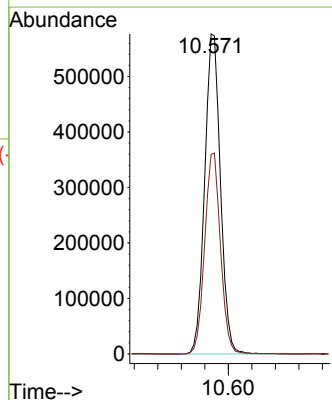
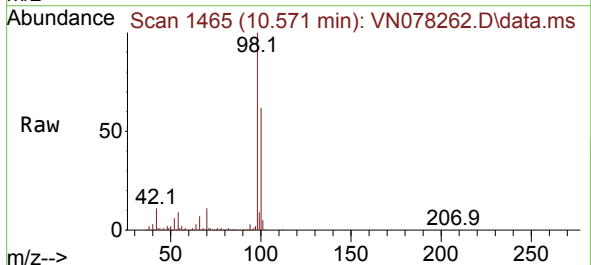
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

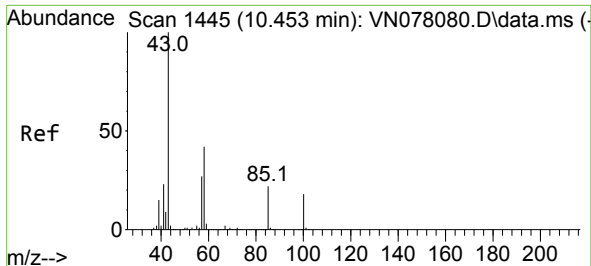
Tgt Ion: 88 Resp: 451
Ion Ratio Lower Upper
88 100
43 551330.2 17.0 25.6#
58 2840.6 47.0 70.4#



#50
Toluene-d8
Concen: 48.779 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 98 Resp: 1070466
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 32.188 ug/l

RT: 10.365 min Scan# 1445

Delta R.T. -0.088 min

Lab File: VN078262.D

Acq: 16 Jun 2023 16:05

Instrument :

MSVOA_N

ClientSampleId :

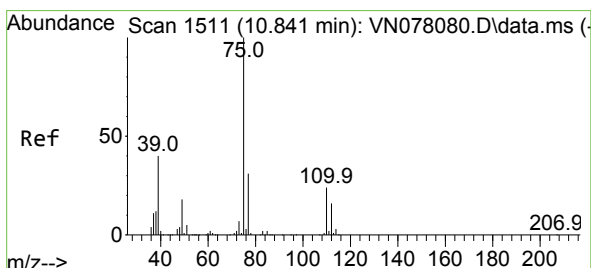
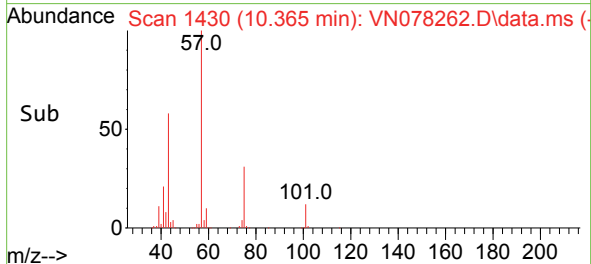
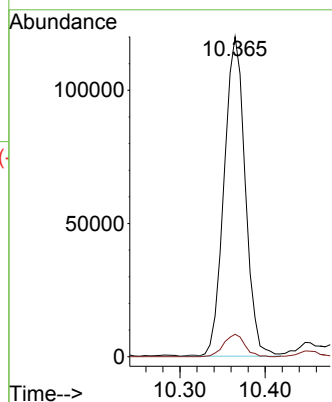
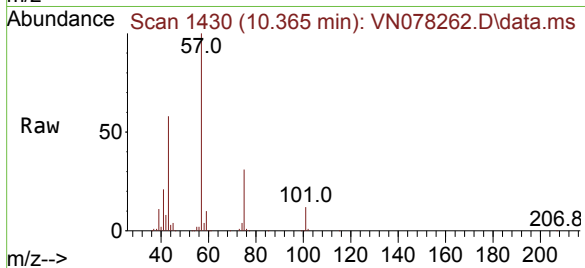
OR-402-VOC-10

Tgt Ion: 43 Resp: 206775

Ion Ratio Lower Upper

43 100

58 7.0 36.6 54.8#



#53

t-1,3-Dichloropropene

Concen: 0.322 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.106 min

Lab File: VN078262.D

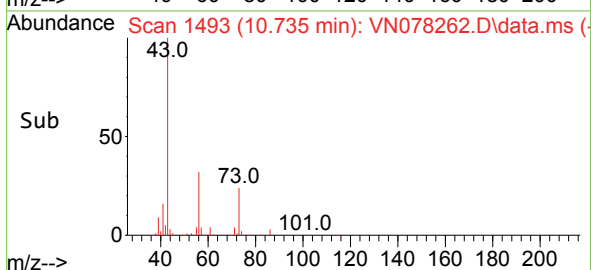
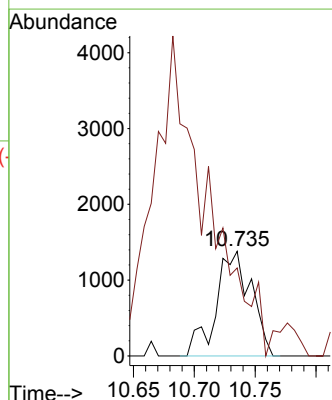
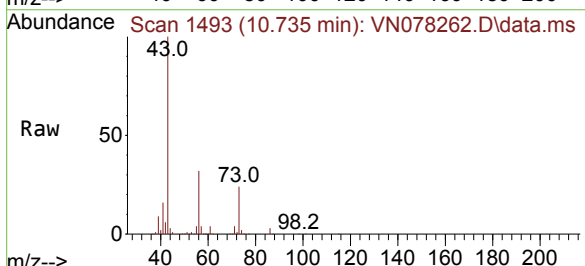
Acq: 16 Jun 2023 16:05

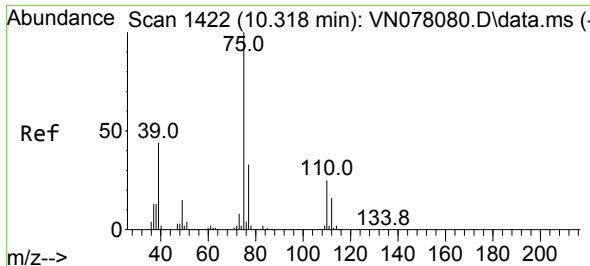
Tgt Ion: 75 Resp: 2784

Ion Ratio Lower Upper

75 100

77 61.5 25.4 38.0#

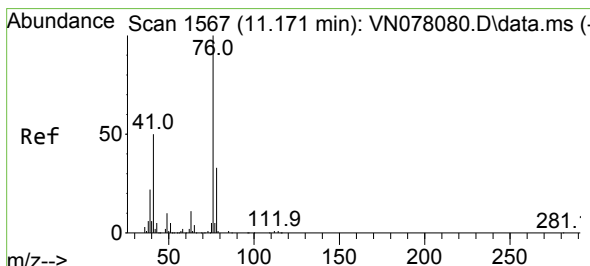
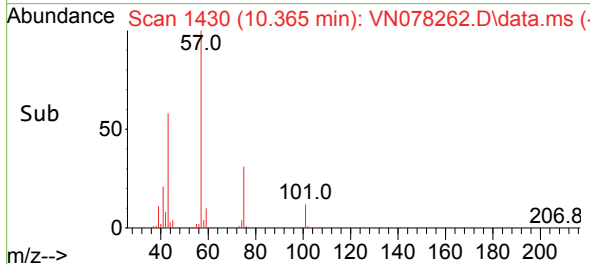
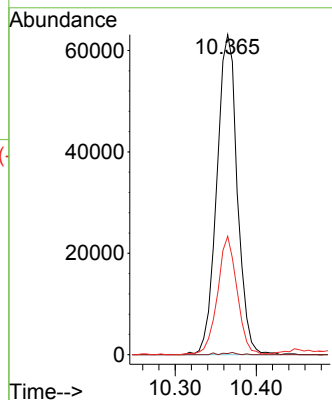
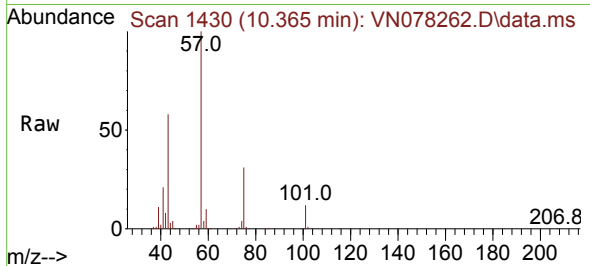




#54
 cis-1,3-Dichloropropene
 Concen: 11.602 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078262.D
 Acq: 16 Jun 2023 16:05

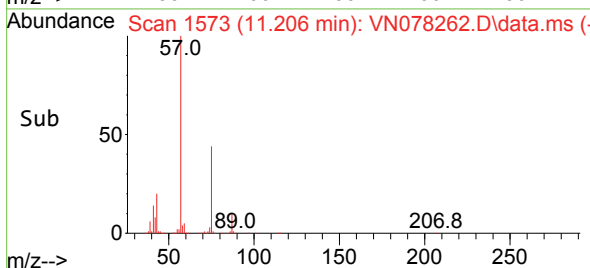
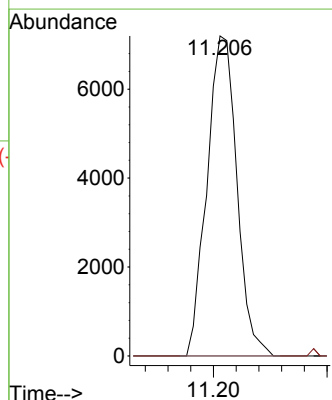
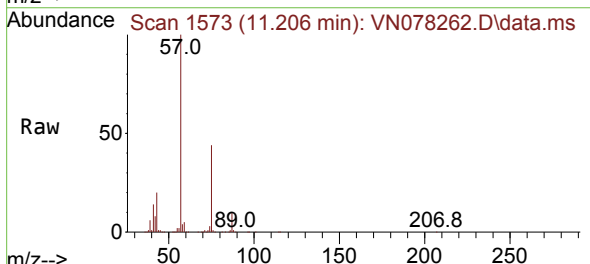
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-402-VOC-10

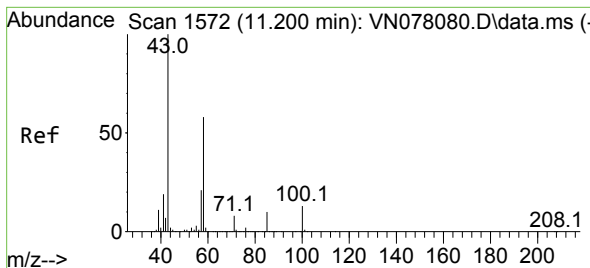
Tgt Ion: 75 Resp: 110830
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.1 39.1#
 39 37.0 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.341 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN078262.D
 Acq: 16 Jun 2023 16:05

Tgt Ion: 76 Resp: 13178
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

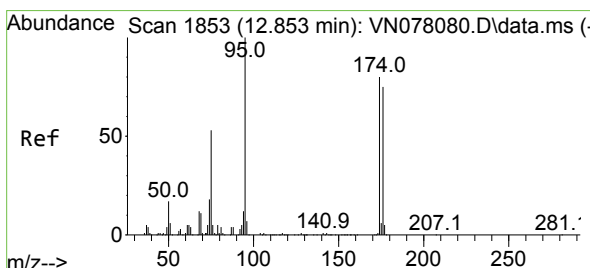
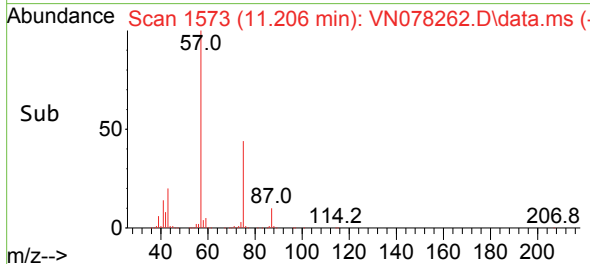
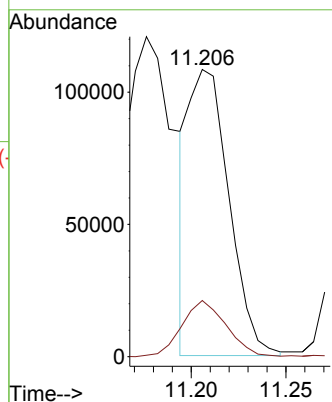
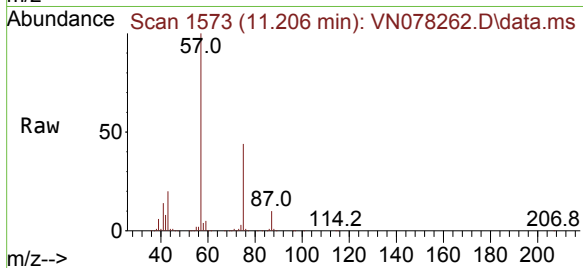




#59
2-Hexanone
Concen: 35.787 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

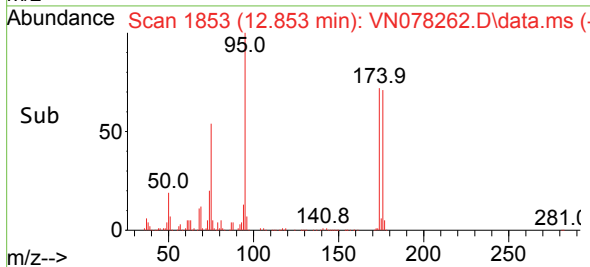
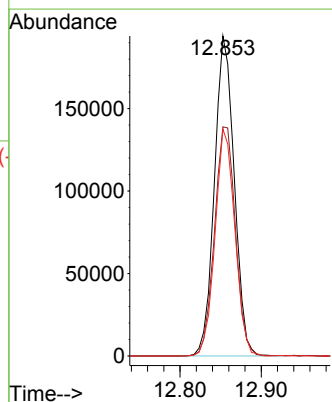
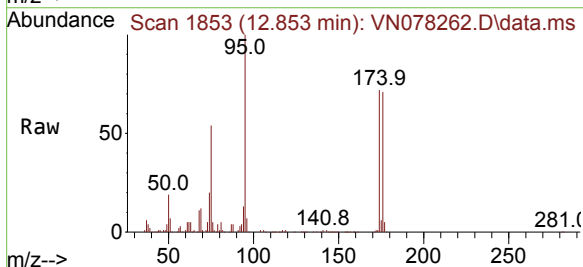
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

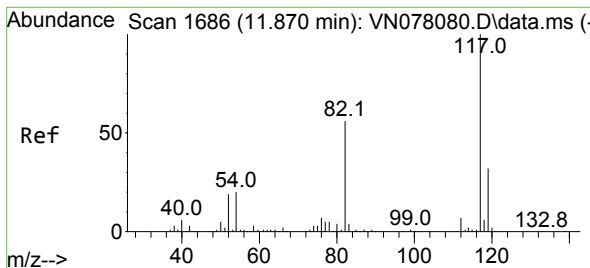
Tgt Ion: 43 Resp: 160071
Ion Ratio Lower Upper
43 100
58 21.8 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.231 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 95 Resp: 329046
Ion Ratio Lower Upper
95 100
174 75.8 0.0 143.8
176 70.8 0.0 135.8

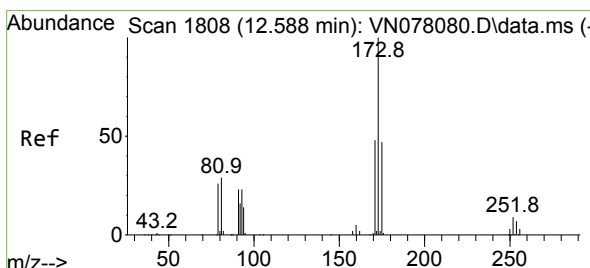
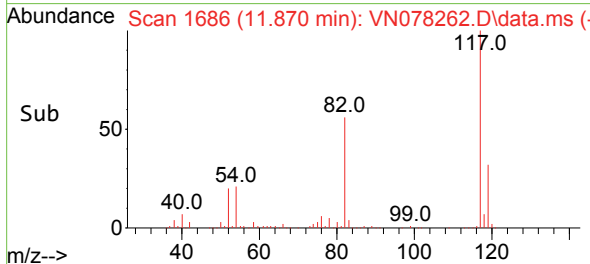
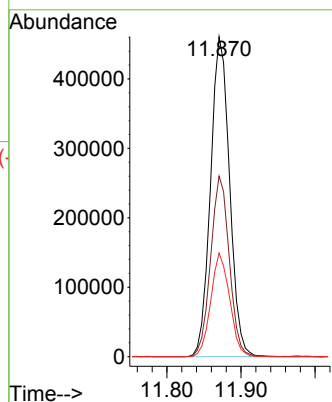
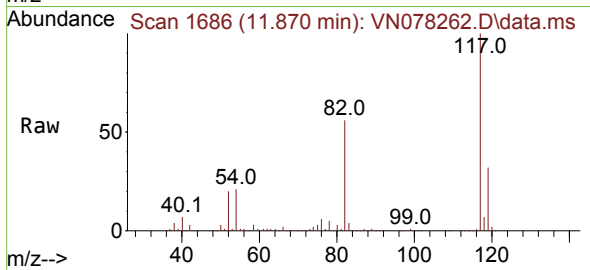




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

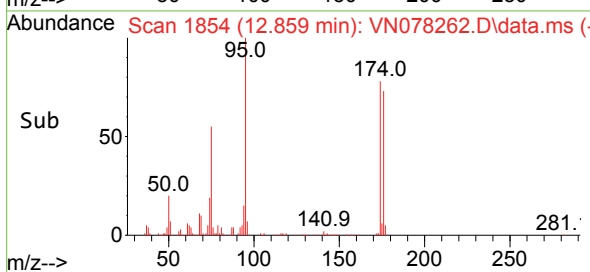
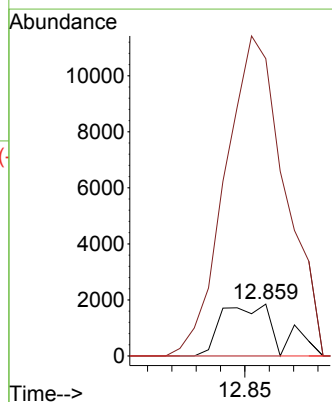
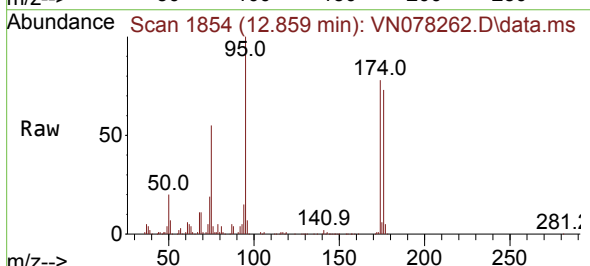
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

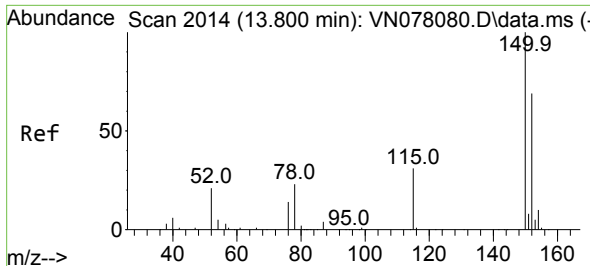
Tgt Ion:117 Resp: 821051
Ion Ratio Lower Upper
117 100
82 56.4 44.0 66.0
119 32.4 25.6 38.4



#71
Bromoform
Concen: 0.592 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion:173 Resp: 2472
Ion Ratio Lower Upper
173 100
175 677.1 24.3 73.0#
254 0.0 0.0 0.0

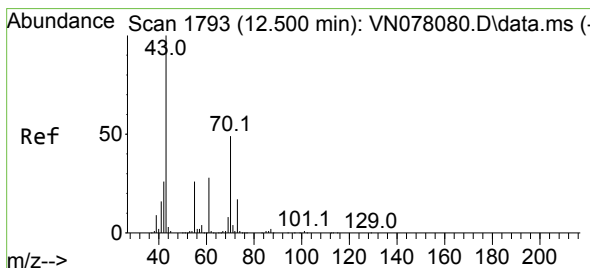
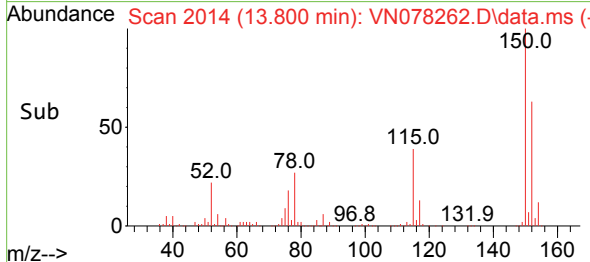
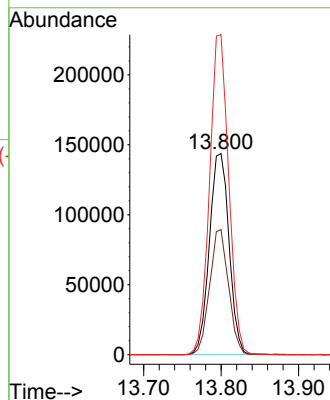
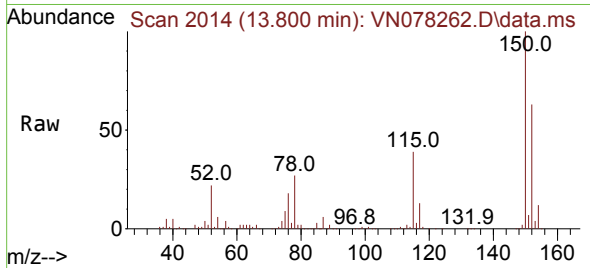




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 2014
 Delta R.T. -0.000 min
 Lab File: VN078262.D
 Acq: 16 Jun 2023 16:05

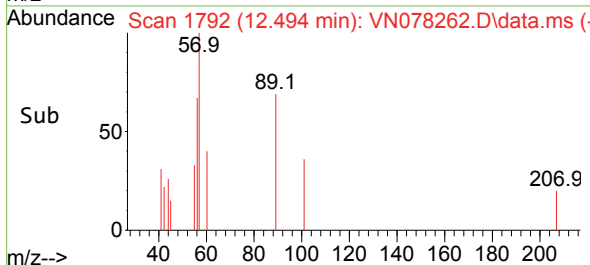
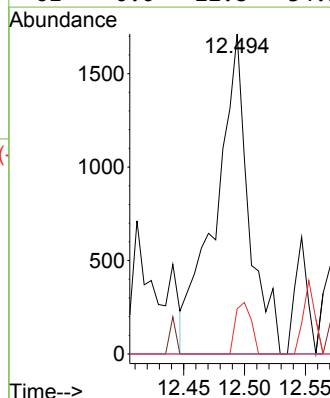
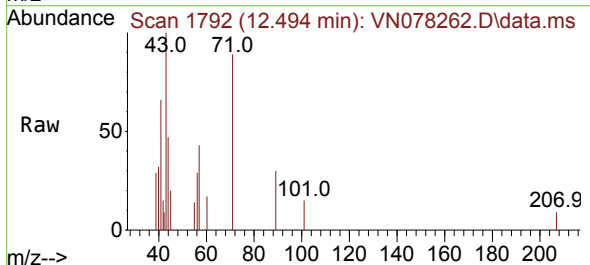
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-402-VOC-10

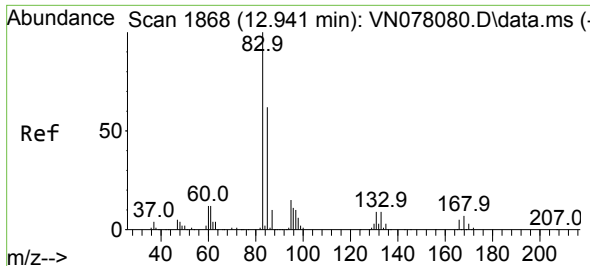
Tgt Ion:152 Resp: 253733
 Ion Ratio Lower Upper
 152 100
 115 59.9 32.3 96.8
 150 154.6 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.413 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN078262.D
 Acq: 16 Jun 2023 16:05

Tgt Ion: 43 Resp: 3263
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 7.5 21.4 32.0#
 61 0.0 22.8 34.2#

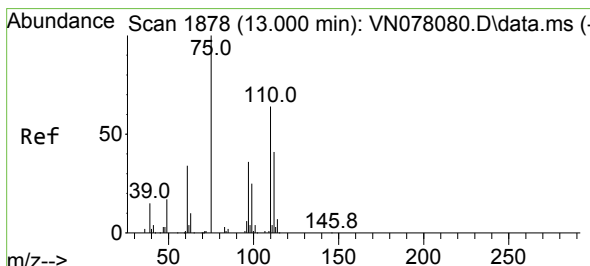
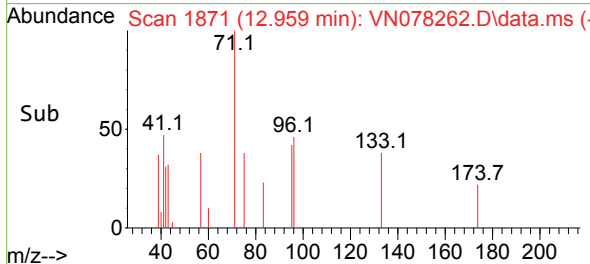
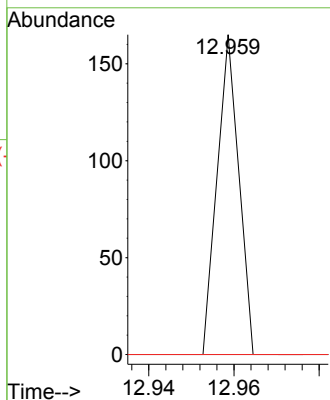
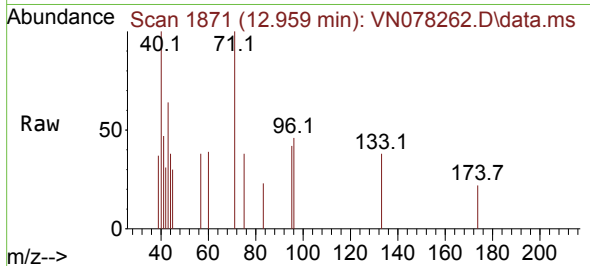




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.959 min Scan# 1871
Delta R.T. 0.018 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

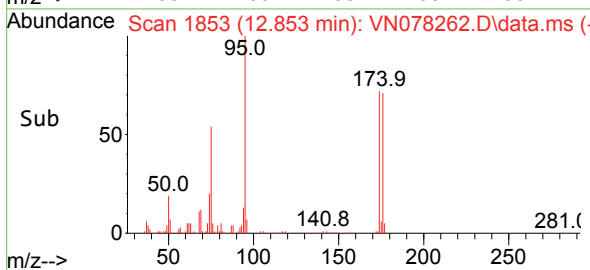
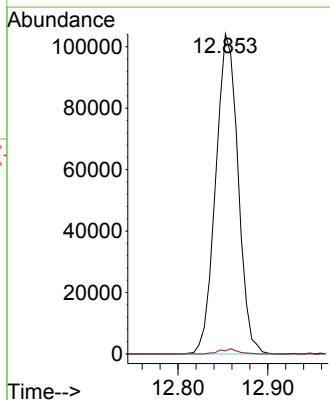
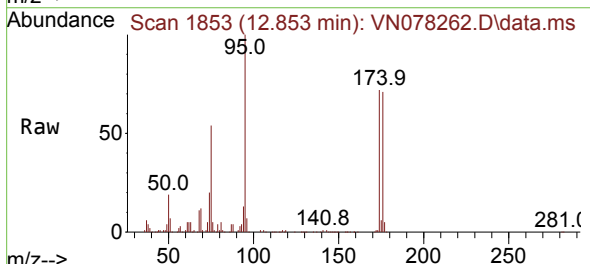
Instrument :
MSVOA_N
ClientSampleId :
OR-402-VOC-10

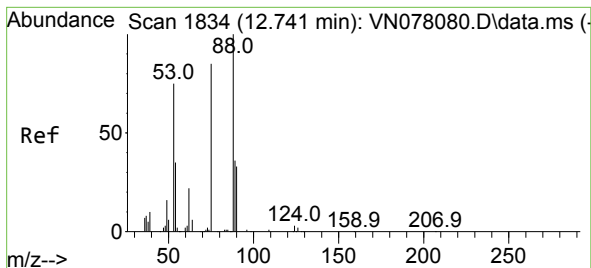
Tgt Ion: 83 Resp: 58
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 30.044 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078262.D
Acq: 16 Jun 2023 16:05

Tgt Ion: 75 Resp: 180212
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.304 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078262.D
 Acq: 16 Jun 2023 16:05

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-402-VOC-10

Tgt Ion: 75 Resp: 180212
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

