

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042923\
 Data File : VN077531.D
 Acq On : 29 Apr 2023 20:06
 Operator : JC\MD
 Sample : 02504-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-512-VOC-02

Quant Time: May 01 01:26:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

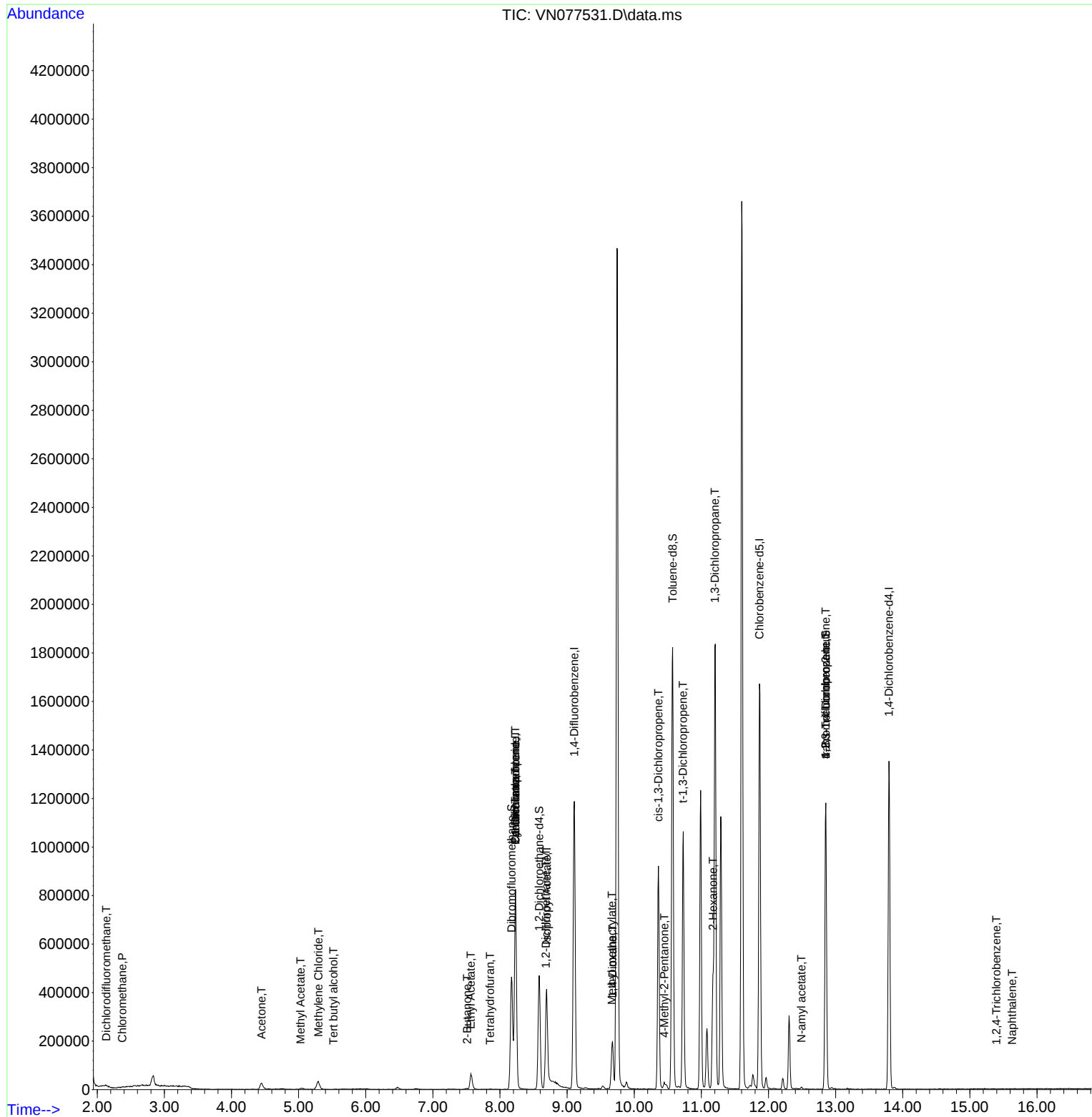
Internal Standards						
1) Pentafluorobenzene	8.230	168	564414	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1106220	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	1044964	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	372303	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	387467	52.610	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.220%	
35) Dibromofluoromethane	8.172	113	340674	51.238	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.480%	
50) Toluene-d8	10.571	98	1351979	53.056	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.120%	
62) 4-Bromofluorobenzene	12.854	95	439138	52.672	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 105.340%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	87	0.321	ug/l #	43
3) Chloromethane	2.372	50	1305	0.231	ug/l #	42
11) Tert butyl alcohol	5.519	59	367	0.310	ug/l #	72
16) Acetone	4.448	43	49262	21.024	ug/l	97
18) Methyl Acetate	5.031	43	3160	0.349	ug/l #	42
20) Methylene Chloride	5.295	84	28580	3.846	ug/l	90
25) 2-Butanone	7.513	43	5252	1.580	ug/l	96
29) Tetrahydrofuran	7.854	42	769	0.369	ug/l #	39
31) Cyclohexane	8.230	56	12573	1.205	ug/l #	16
36) 1,1-Dichloropropene	8.230	75	49772	5.182	ug/l #	49
37) Ethyl Acetate	7.566	43	91201	12.495	ug/l	99
38) Carbon Tetrachloride	8.230	117	64688	6.104	ug/l #	15
42) 1,2-Dichloroethane	8.683	62	3071	0.306	ug/l #	73
43) Isopropyl Acetate	8.695	43	470313	37.245	ug/l #	85
48) Methyl methacrylate	9.666	41	10349	1.800	ug/l #	3
49) 1,4-Dioxane	9.677	88	189	1.311	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	15504	2.093	ug/l	98
53) t-1,3-Dichloropropene	10.724	75	3536	0.325	ug/l #	70
54) cis-1,3-Dichloropropene	10.360	75	198540	16.743	ug/l #	62
57) 1,3-Dichloropropane	11.201	76	24463	1.992	ug/l #	42
59) 2-Hexanone	11.171	43	322152	59.837	ug/l #	19
74) N-amyl acetate	12.489	43	3067	0.300	ug/l #	36
76) 1,2,3-Trichloropropane	12.854	75	232208	26.822	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	232208	75.775	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.395	180	68	0.822	ug/l #	14
95) Naphthalene	15.630	128	142	1.155	ug/l #	70

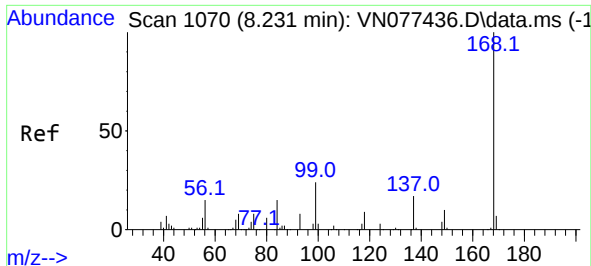
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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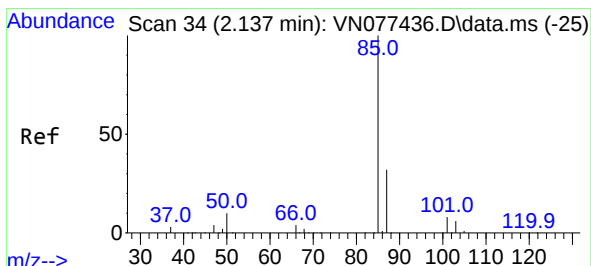
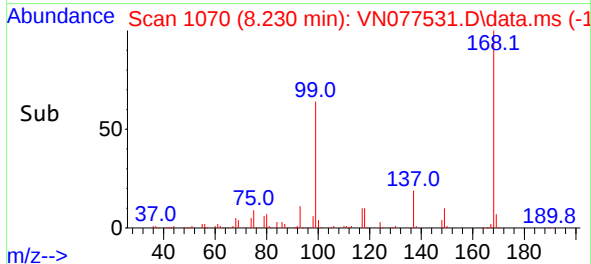
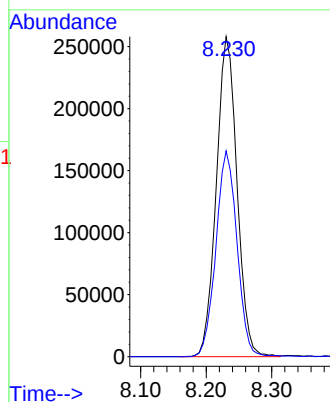
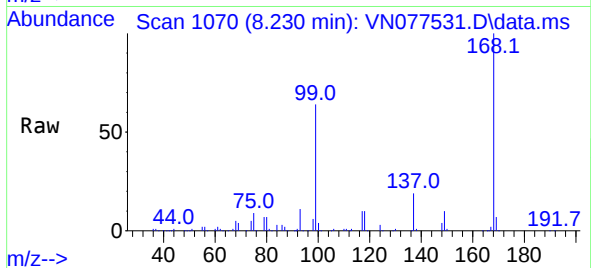




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

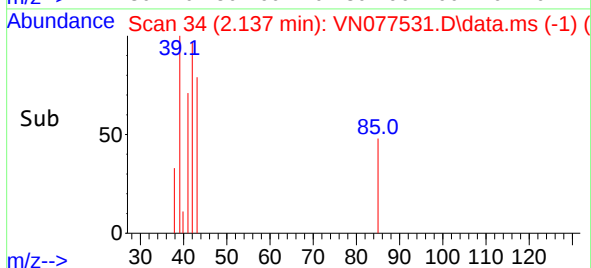
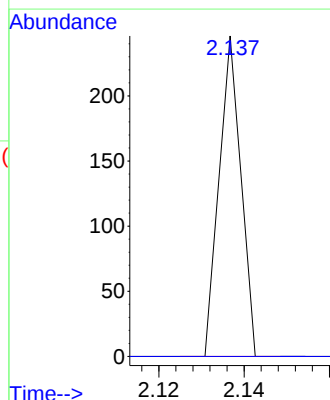
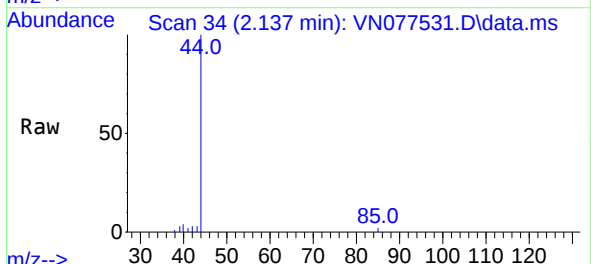
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

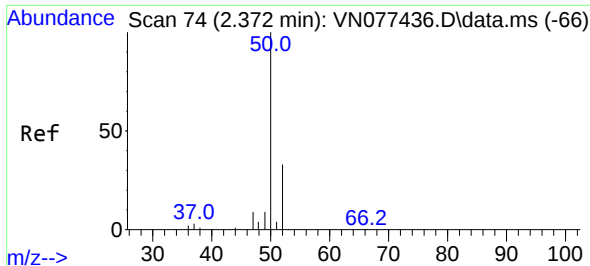
Tgt Ion:168 Resp: 564414
Ion Ratio Lower Upper
168 100
99 64.3 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.321 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 85 Resp: 87
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

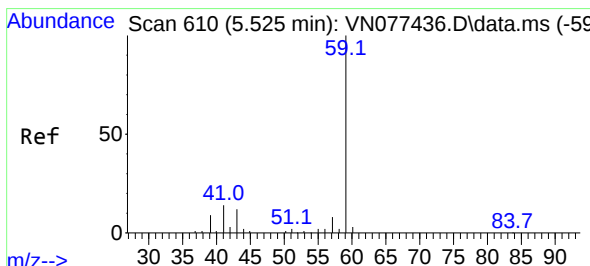
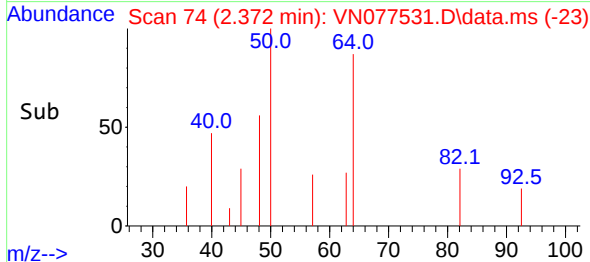
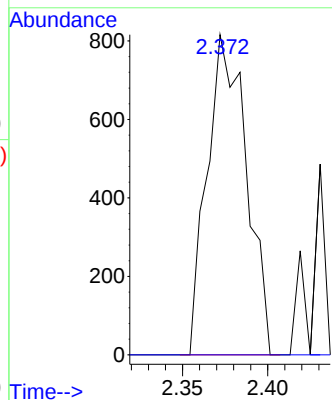
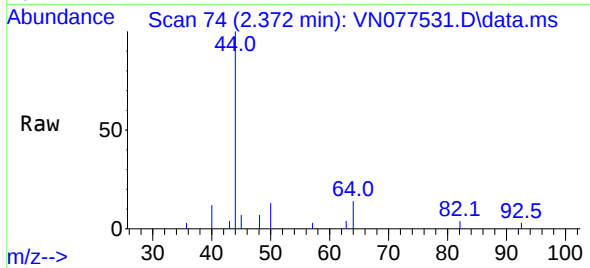




#3
Chloromethane
Concen: 0.231 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

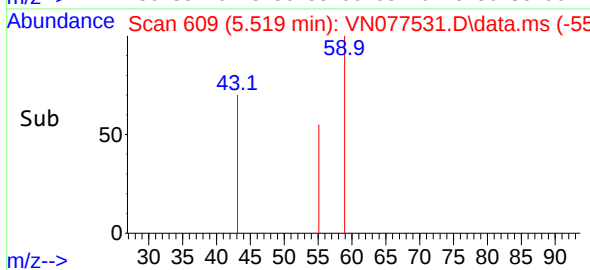
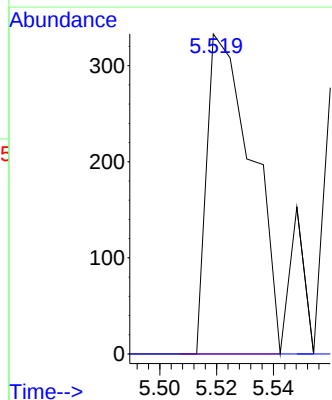
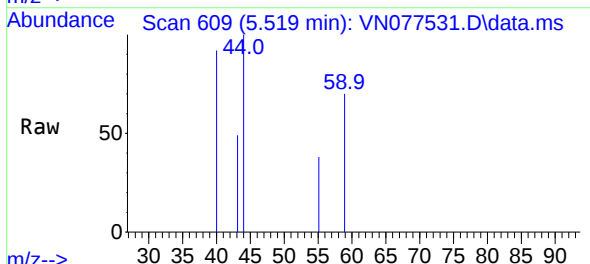
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

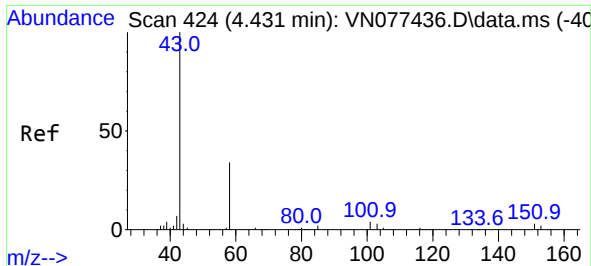
Tgt Ion: 50 Resp: 1305
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



#11
Tert butyl alcohol
Concen: 0.310 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 59 Resp: 367
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

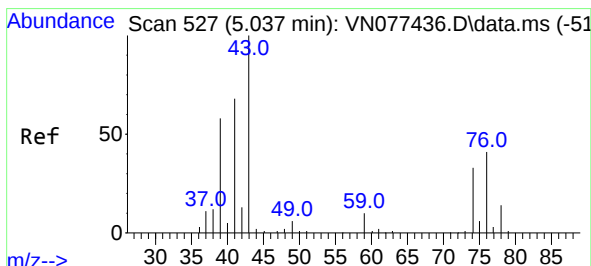
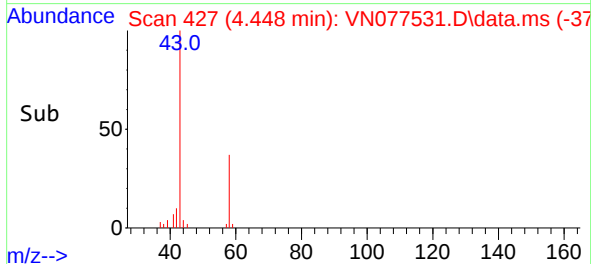
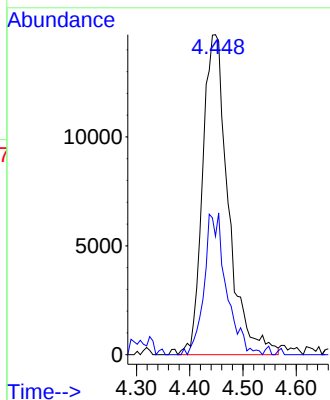
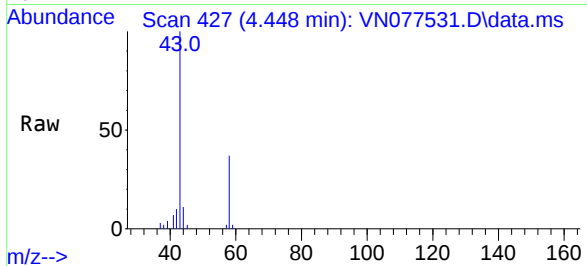




#16
Acetone
Concen: 21.024 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

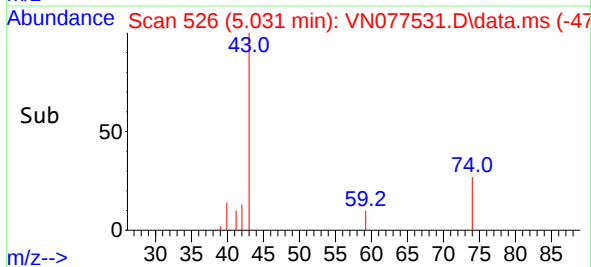
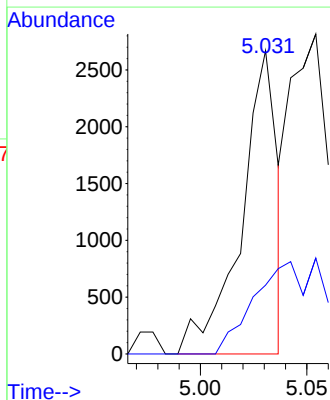
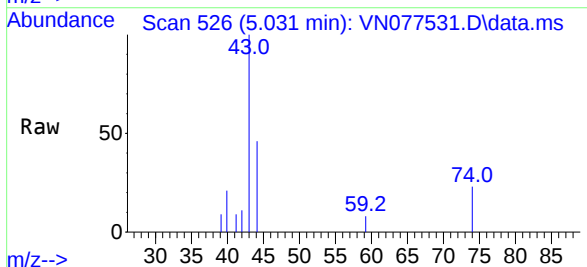
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

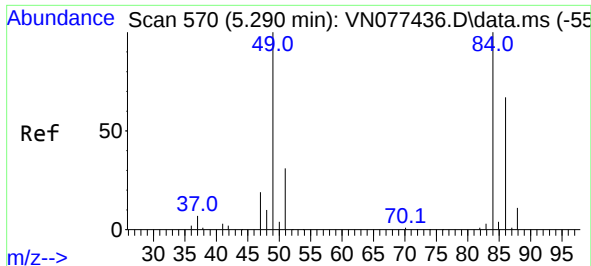
Tgt Ion: 43 Resp: 49262
Ion Ratio Lower Upper
43 100
58 37.0 28.0 42.0



#18
Methyl Acetate
Concen: 0.349 ug/l
RT: 5.031 min Scan# 526
Delta R.T. -0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 43 Resp: 3160
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



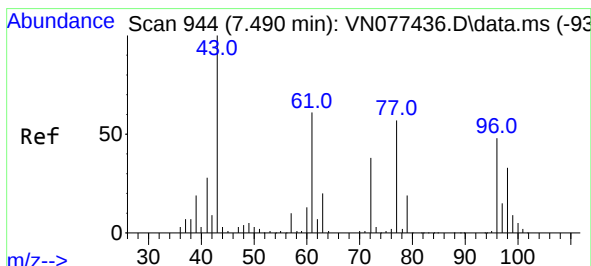
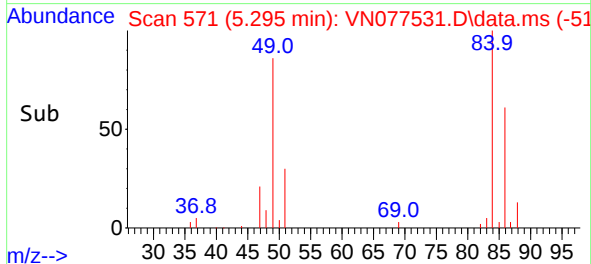
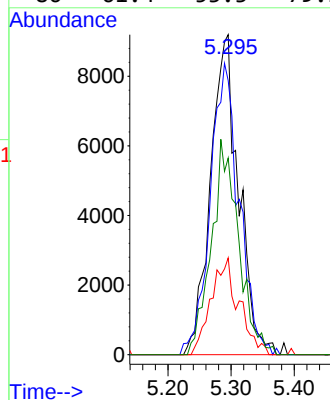
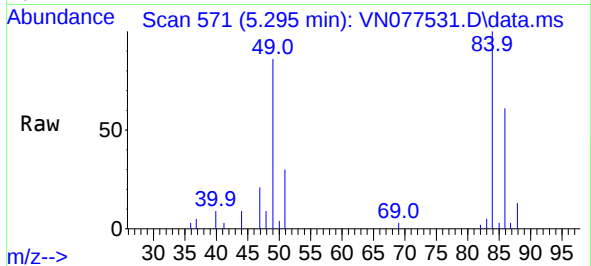


#20
Methylene Chloride
Concen: 3.846 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

Tgt Ion: 84 Resp: 28580

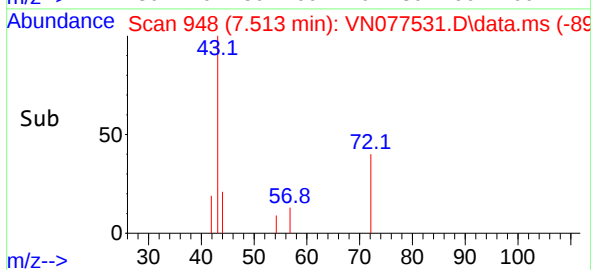
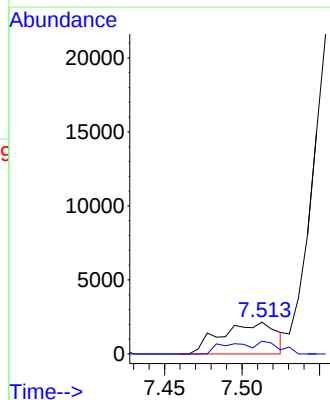
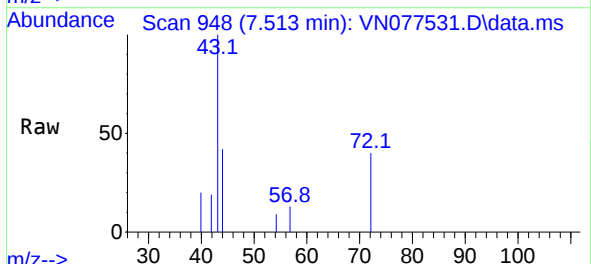
Ion	Ratio	Lower	Upper
84	100		
49	85.7	79.7	119.5
51	30.3	25.2	37.8
86	61.4	53.3	79.9

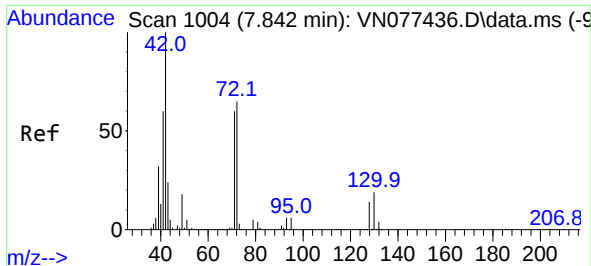


#25
2-Butanone
Concen: 1.580 ug/l
RT: 7.513 min Scan# 948
Delta R.T. 0.023 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 43 Resp: 5252

Ion	Ratio	Lower	Upper
43	100		
72	40.1	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.369 ug/l

RT: 7.854 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN077531.D

Acq: 29 Apr 2023 20:06

Instrument :

MSVOA_N

ClientSampleId :

BU-512-VOC-02

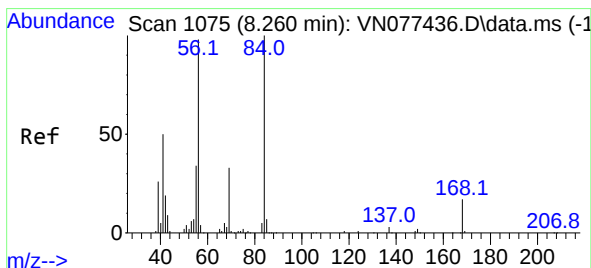
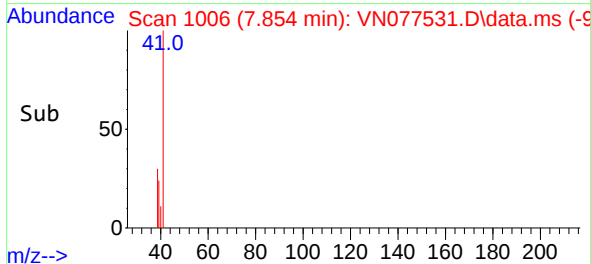
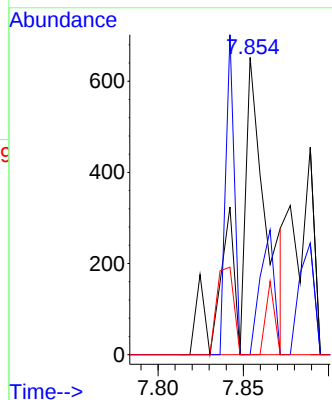
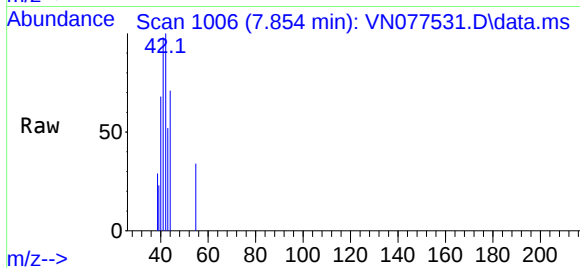
Tgt Ion: 42 Resp: 769

Ion Ratio Lower Upper

42 100

72 20.4 49.8 74.6#

71 7.4 47.4 71.2#



#31

Cyclohexane

Concen: 1.205 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.030 min

Lab File: VN077531.D

Acq: 29 Apr 2023 20:06

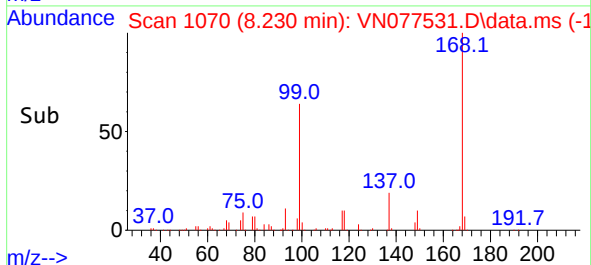
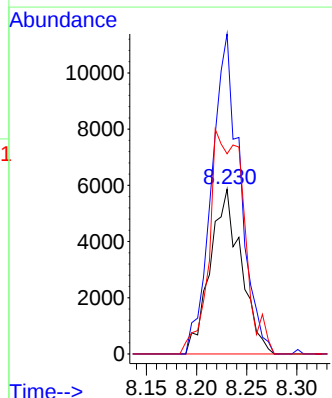
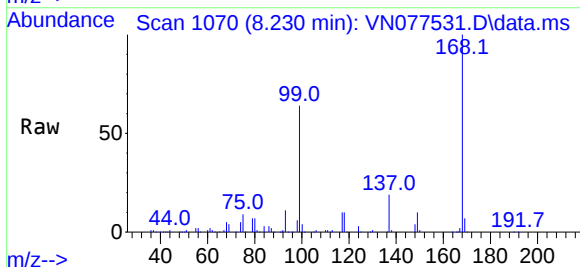
Tgt Ion: 56 Resp: 12573

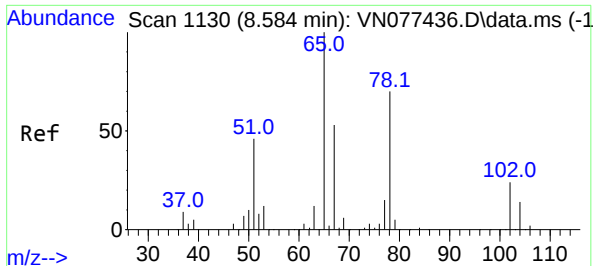
Ion Ratio Lower Upper

56 100

69 194.1 26.8 40.2#

84 121.5 81.8 122.6

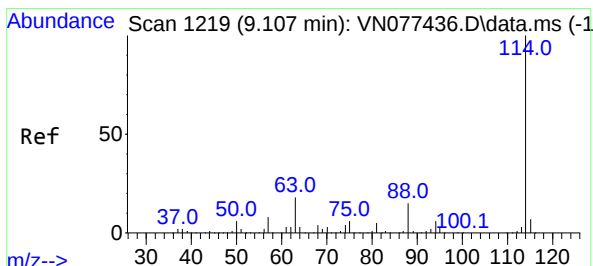
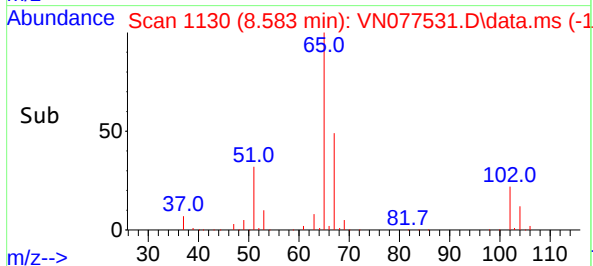
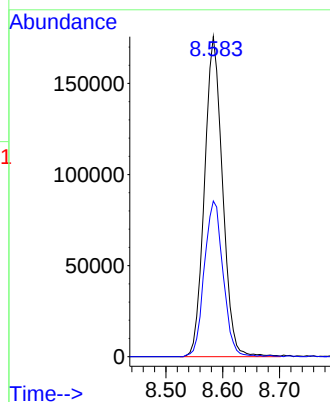
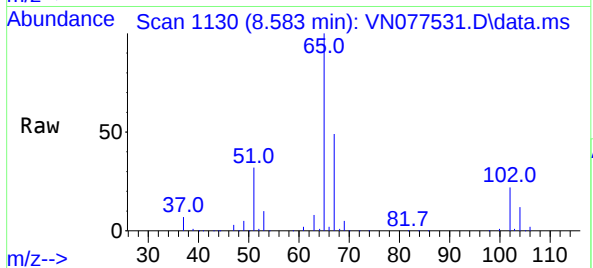




#33
1,2-Dichloroethane-d4
Concen: 52.610 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

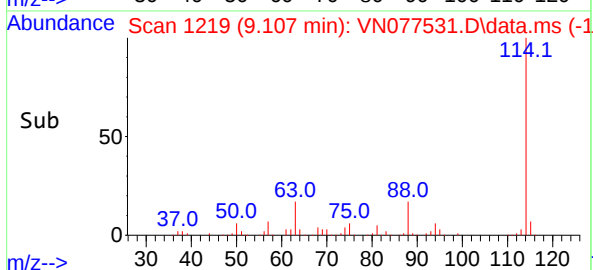
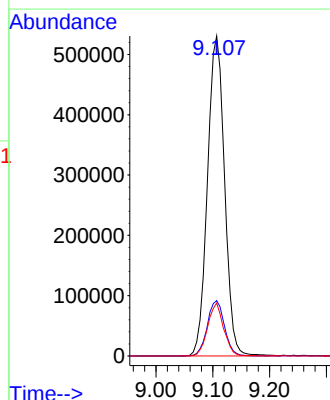
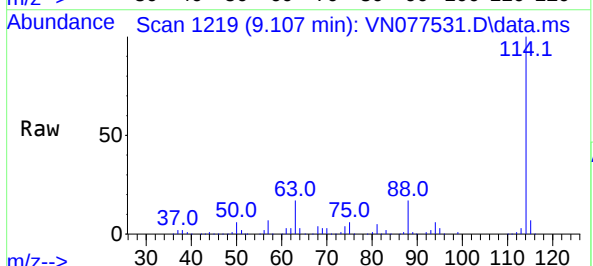
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

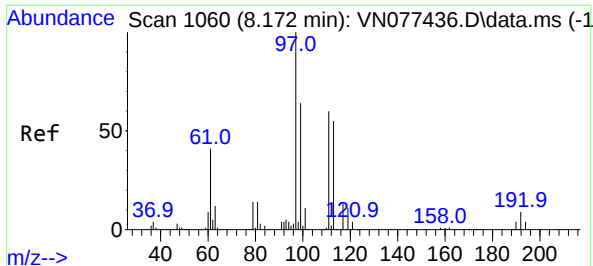
Tgt Ion: 65 Resp: 387467
Ion Ratio Lower Upper
65 100
67 50.5 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 114 Resp: 1106220
Ion Ratio Lower Upper
114 100
63 17.3 0.0 36.4
88 16.6 0.0 30.6

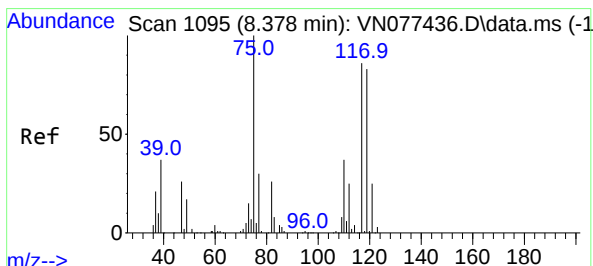
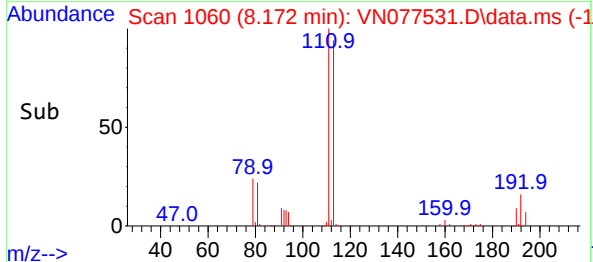
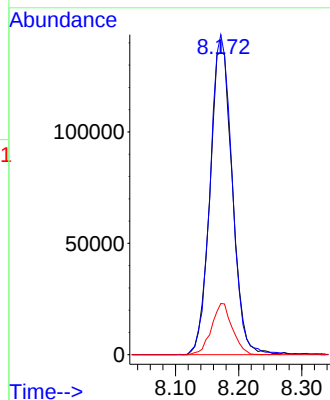
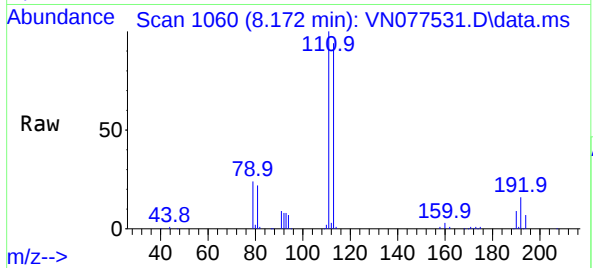




#35
Dibromofluoromethane
Concen: 51.238 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

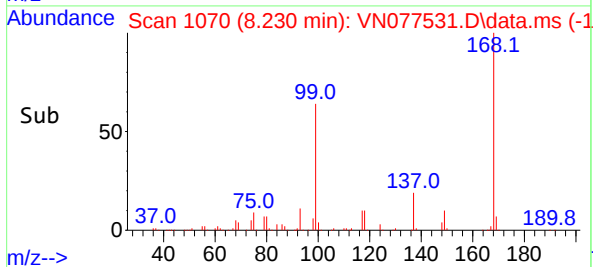
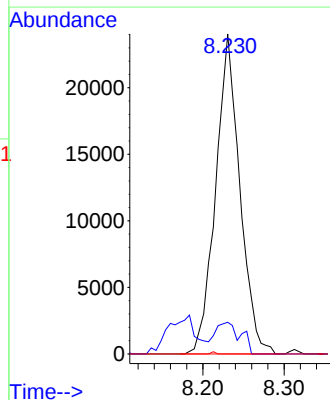
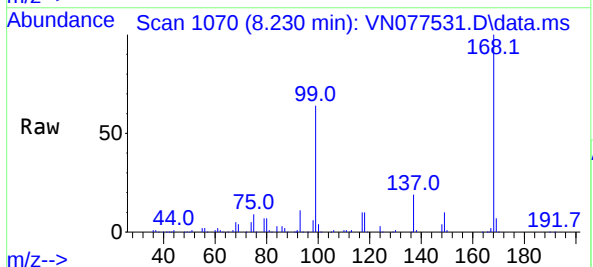
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

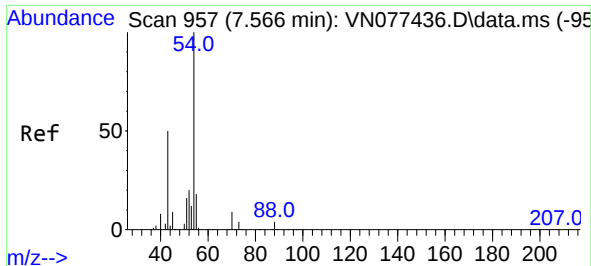
Tgt Ion:113 Resp: 340674
Ion Ratio Lower Upper
113 100
111 101.9 82.6 123.8
192 15.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.182 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 75 Resp: 49772
Ion Ratio Lower Upper
75 100
110 10.3 19.1 57.3#
77 0.1 25.0 37.4#

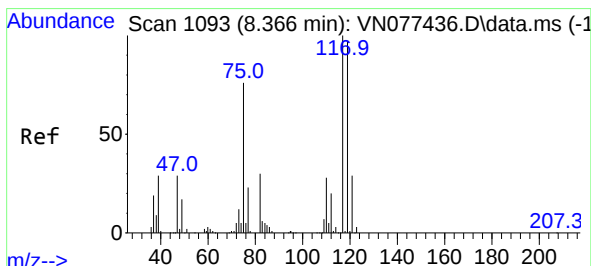
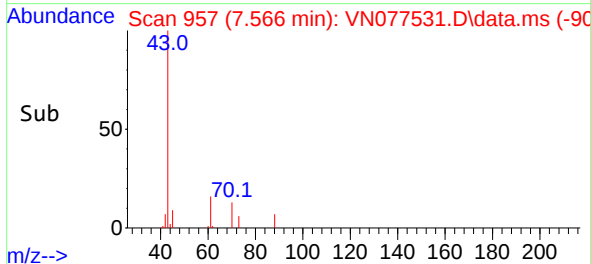
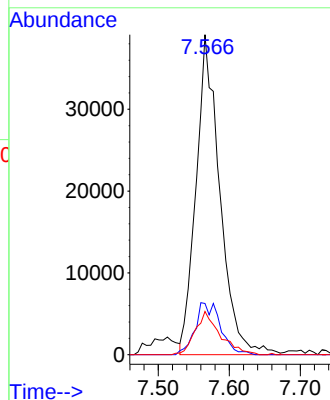
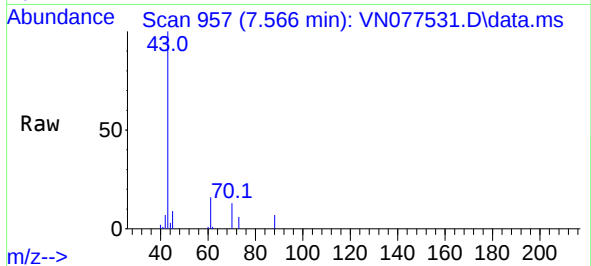




#37
Ethyl Acetate
Concen: 12.495 ug/l
RT: 7.566 min Scan# 912
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

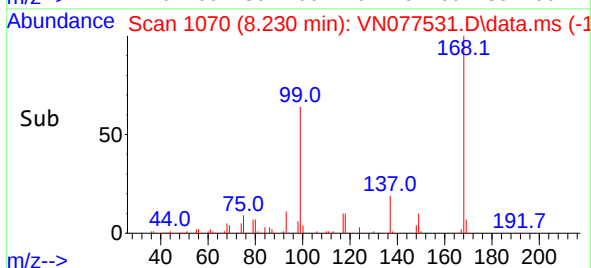
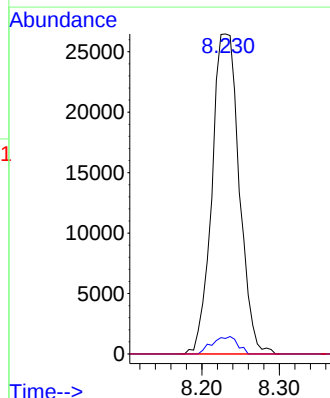
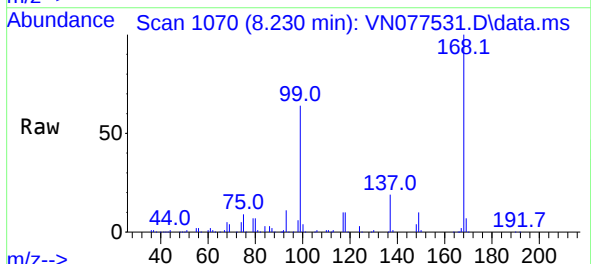
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

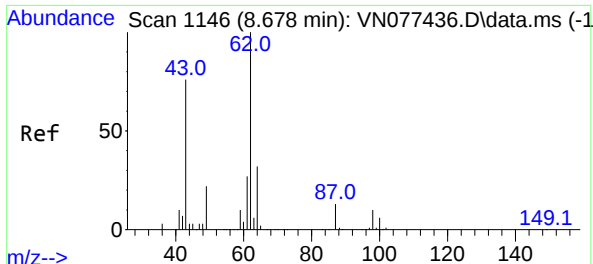
Tgt Ion:	43	Resp:	91201
Ion	Ratio	Lower	Upper
43	100		
61	17.4	13.2	19.8
70	14.1	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.104 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.136 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion:	117	Resp:	64688
Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.3	115.9#
121	0.0	23.3	34.9#

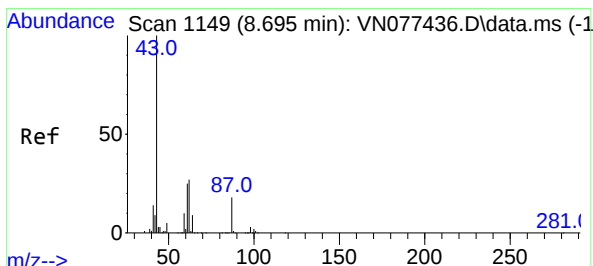
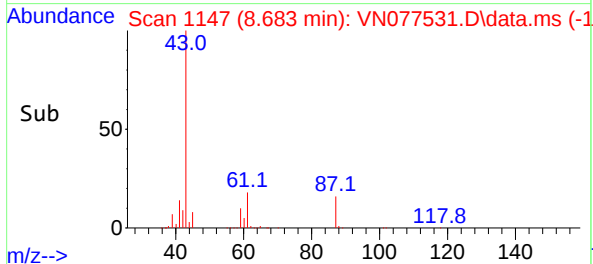
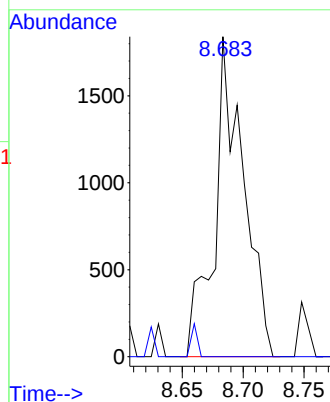
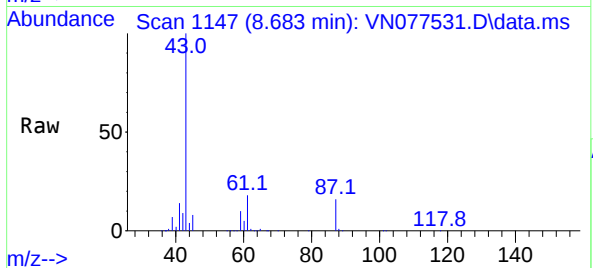




#42
1,2-Dichloroethane
Concen: 0.306 ug/l
RT: 8.683 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

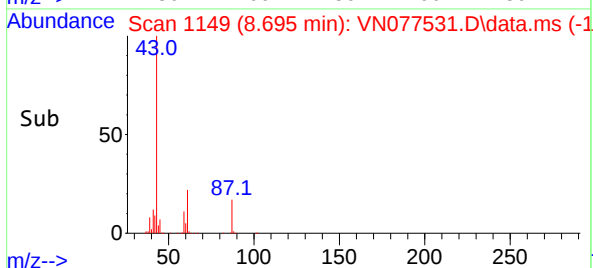
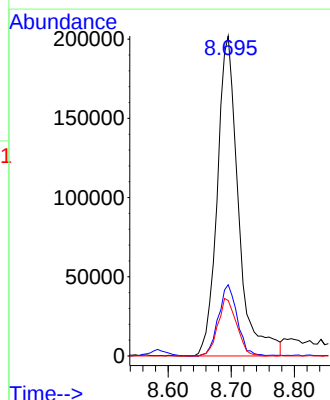
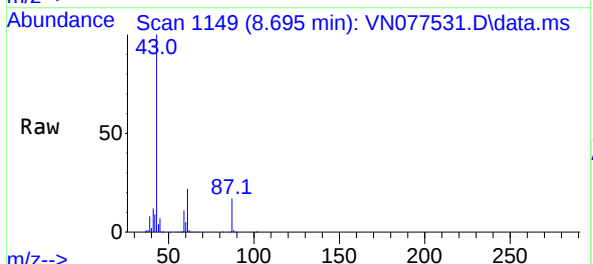
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

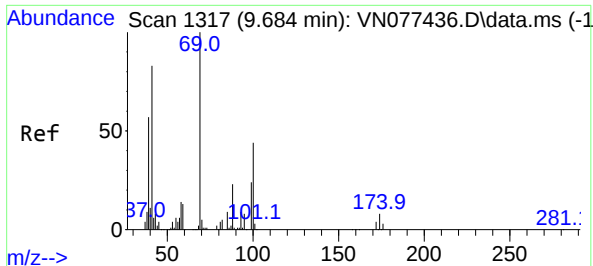
Tgt Ion: 62 Resp: 3071
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8



#43
Isopropyl Acetate
Concen: 37.245 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 43 Resp: 470313
Ion Ratio Lower Upper
43 100
61 19.8 24.7 37.1#
87 15.9 14.6 21.8

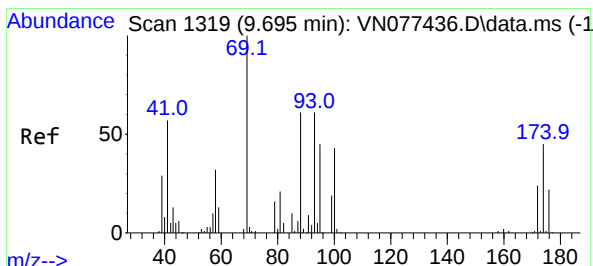
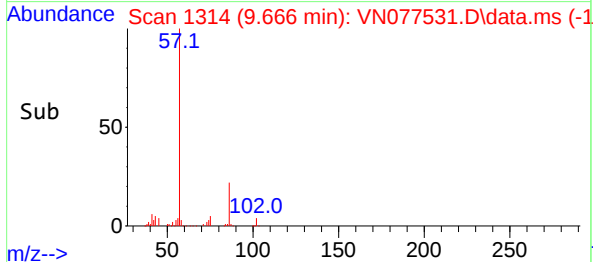
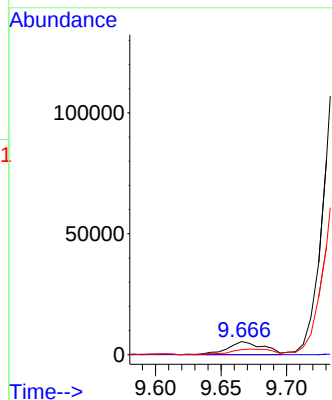
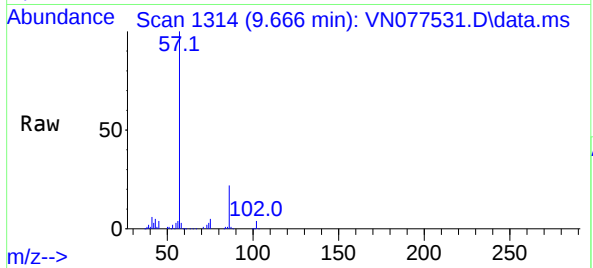




#48
Methyl methacrylate
Concen: 1.800 ug/l
RT: 9.666 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

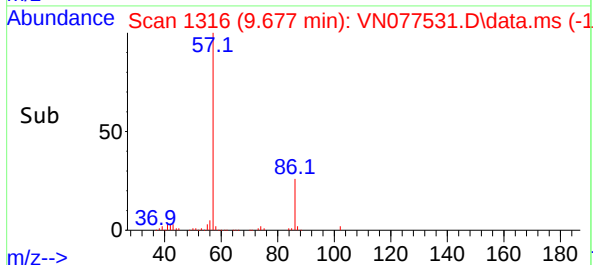
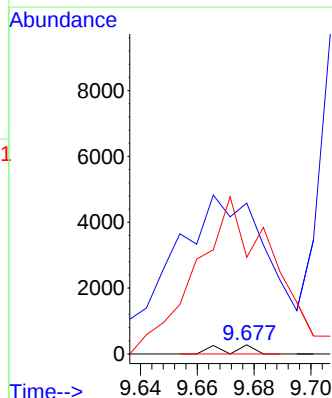
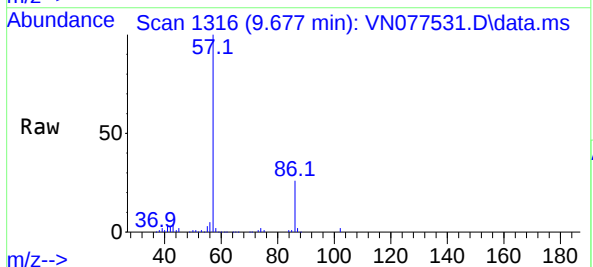
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

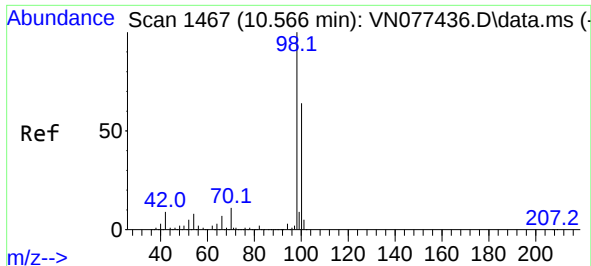
Tgt Ion: 41 Resp: 10349
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#



#49
1,4-Dioxane
Concen: 1.311 ug/l
RT: 9.677 min Scan# 1316
Delta R.T. -0.018 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 88 Resp: 189
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 4866.1 47.0 70.4#

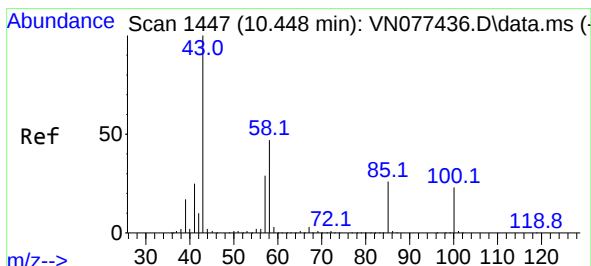
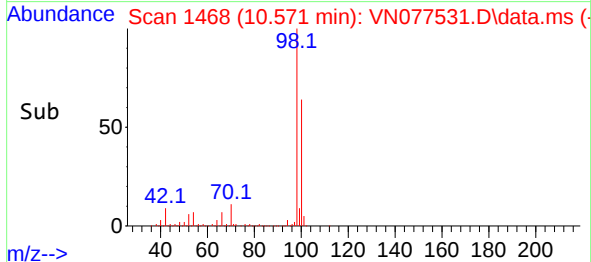
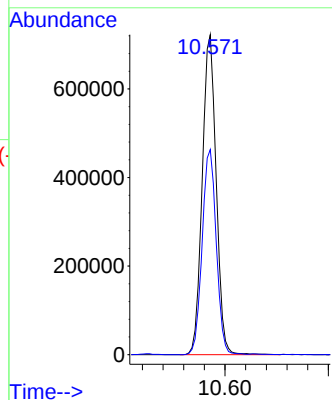
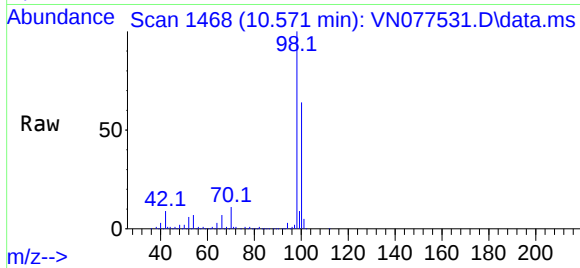




#50
Toluene-d8
Concen: 53.056 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

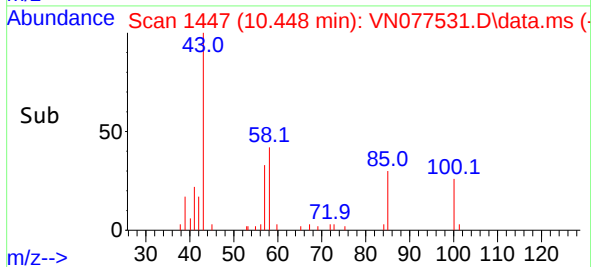
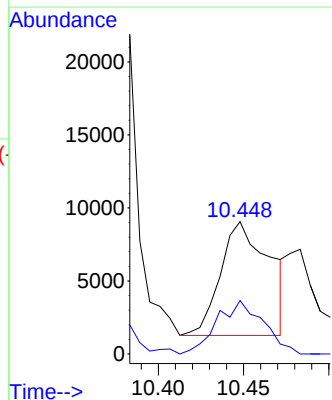
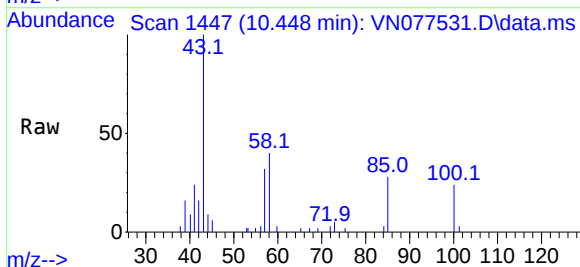
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

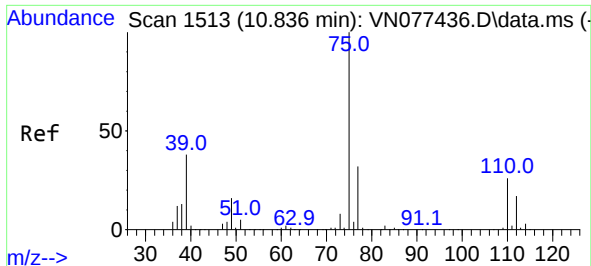
Tgt Ion: 98 Resp: 1351979
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.093 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 43 Resp: 15504
Ion Ratio Lower Upper
43 100
58 44.6 36.6 54.8

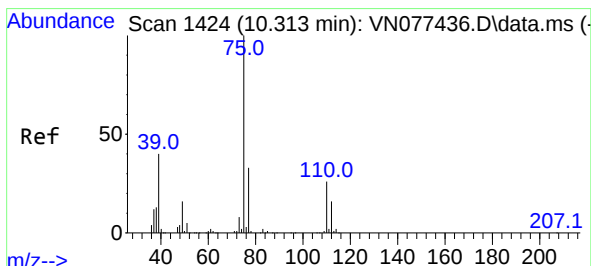
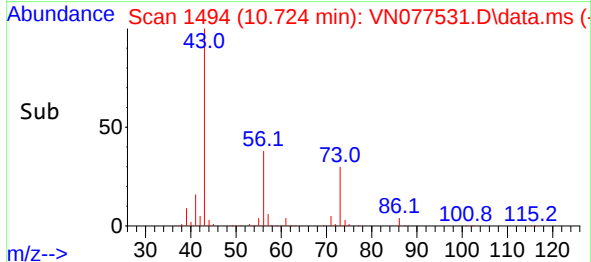
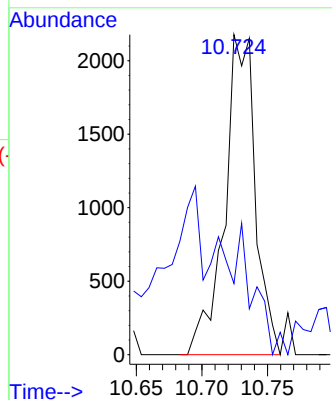
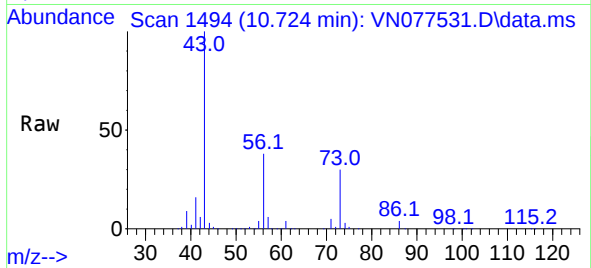




#53
 t-1,3-Dichloropropene
 Concen: 0.325 ug/l
 RT: 10.724 min Scan# 1494
 Delta R.T. -0.112 min
 Lab File: VN077531.D
 Acq: 29 Apr 2023 20:06

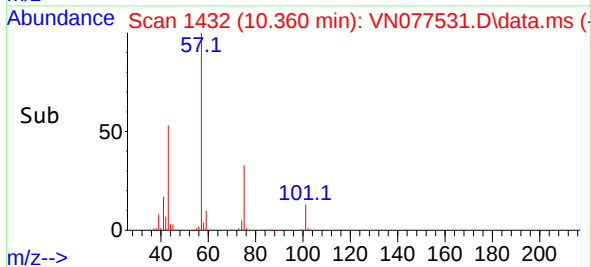
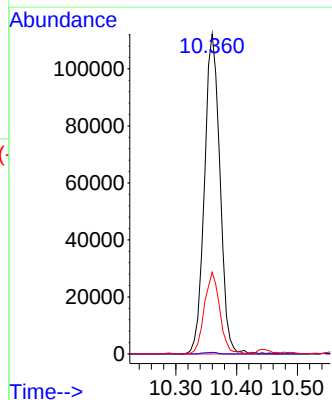
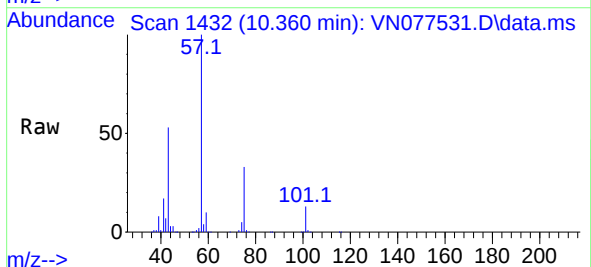
Instrument :
 MSVOA_N
 ClientSampleId :
 BU-512-VOC-02

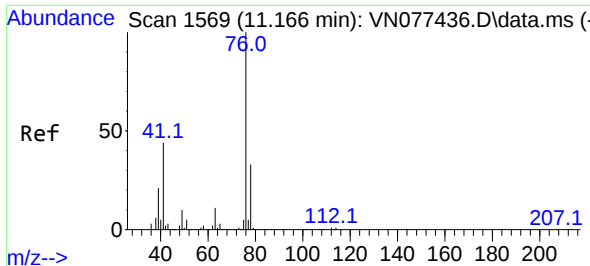
Tgt Ion: 75 Resp: 3536
 Ion Ratio Lower Upper
 75 100
 77 15.3 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 16.743 ug/l
 RT: 10.360 min Scan# 1432
 Delta R.T. 0.047 min
 Lab File: VN077531.D
 Acq: 29 Apr 2023 20:06

Tgt Ion: 75 Resp: 198540
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 25.5 31.6 47.4#

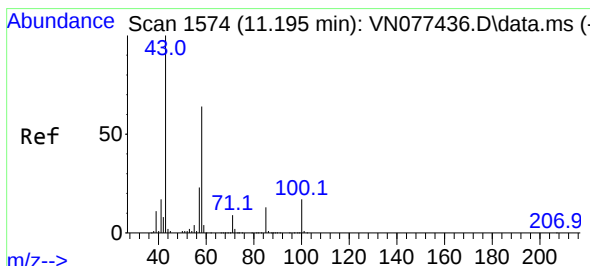
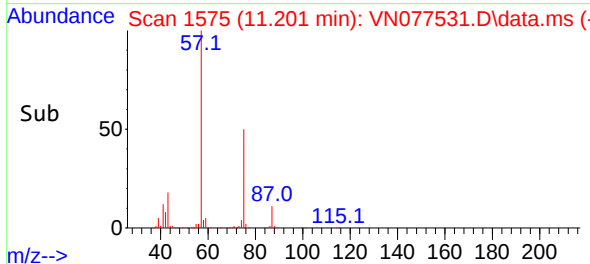
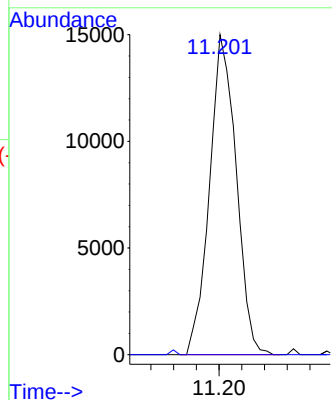
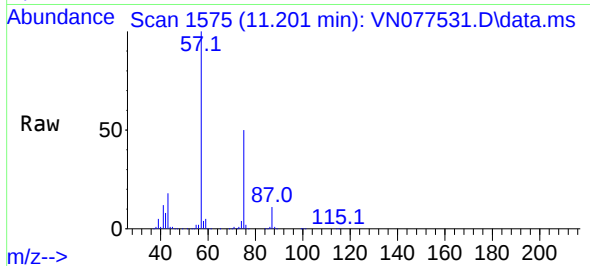




#57
1,3-Dichloropropane
Concen: 1.992 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

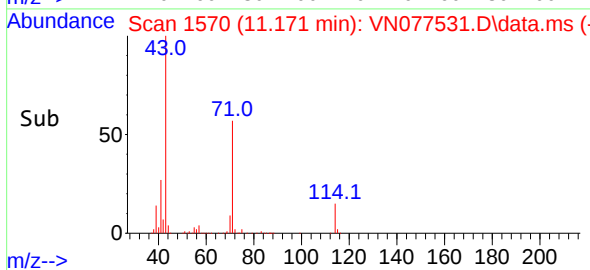
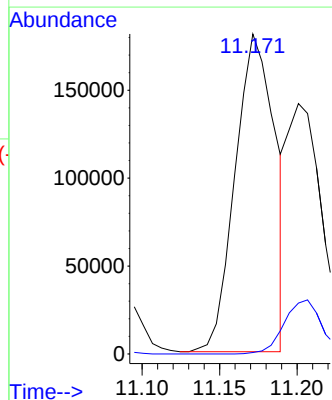
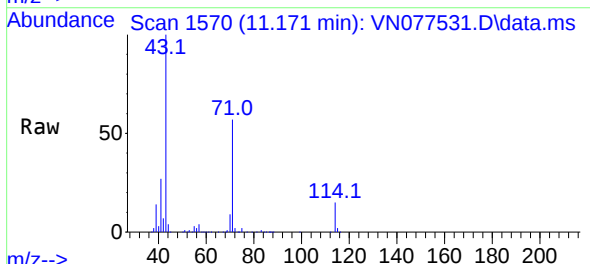
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

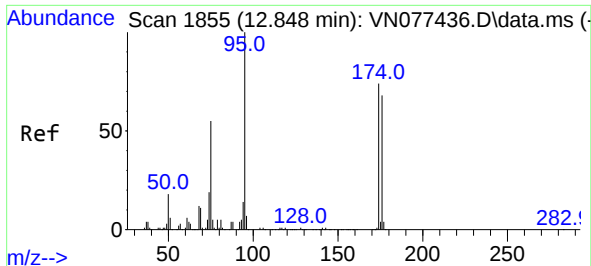
Tgt Ion: 76 Resp: 24463
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 59.837 ug/l
RT: 11.171 min Scan# 1570
Delta R.T. -0.024 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 43 Resp: 322152
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

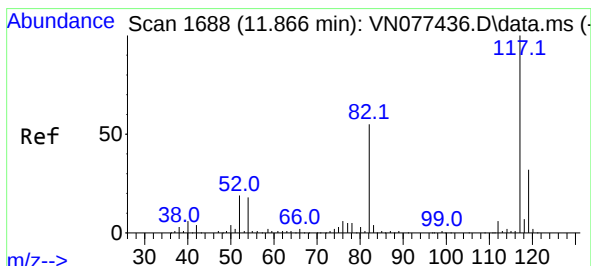
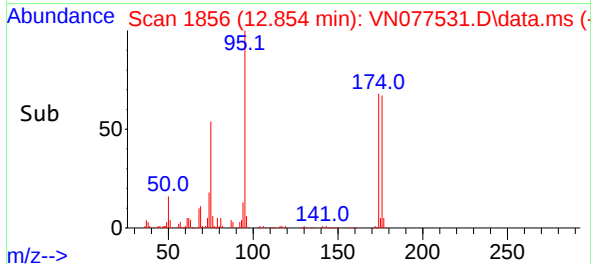
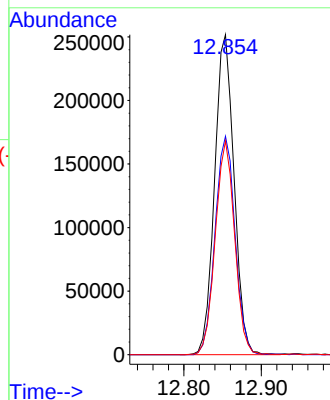
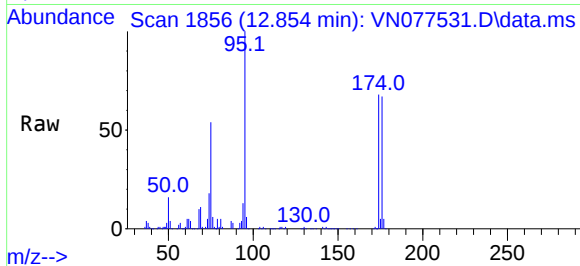




#62
4-Bromofluorobenzene
Concen: 52.672 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

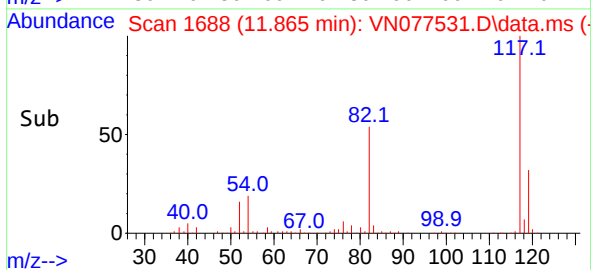
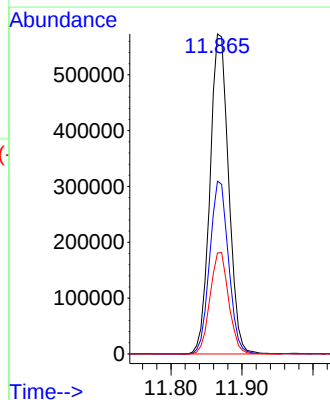
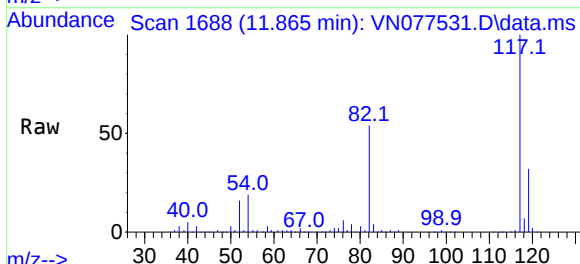
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

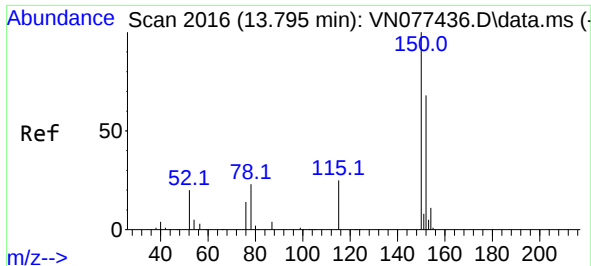
Tgt Ion: 95 Resp: 439138
Ion Ratio Lower Upper
95 100
174 70.5 0.0 143.8
176 66.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

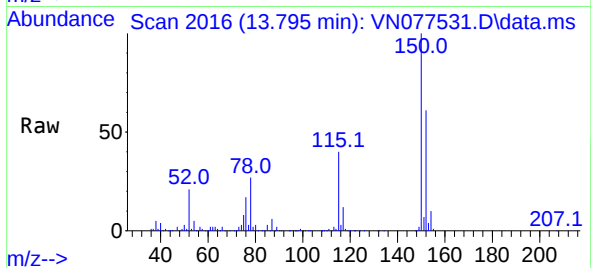
Tgt Ion: 117 Resp: 1044964
Ion Ratio Lower Upper
117 100
82 54.0 44.0 66.0
119 31.6 25.6 38.4



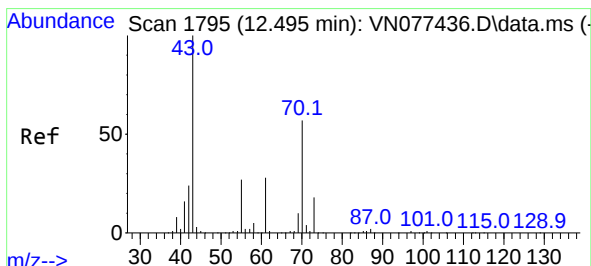
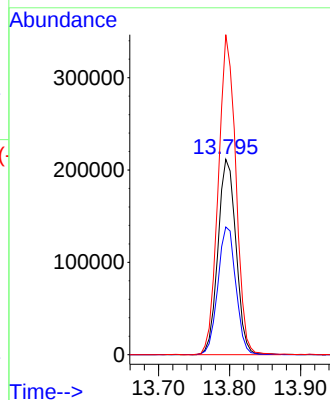
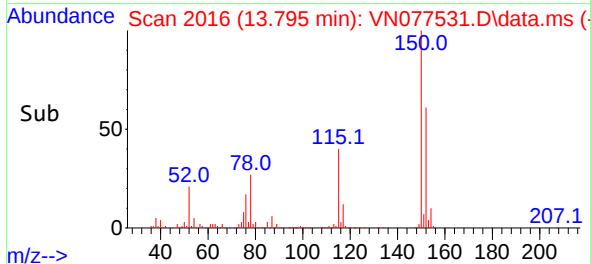


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

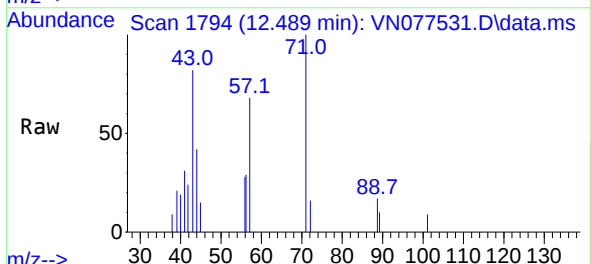
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02



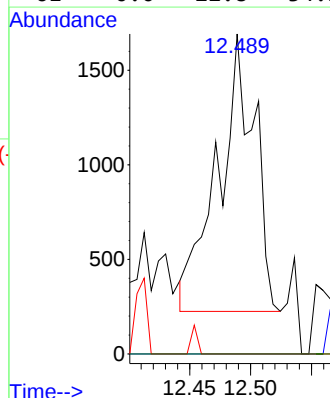
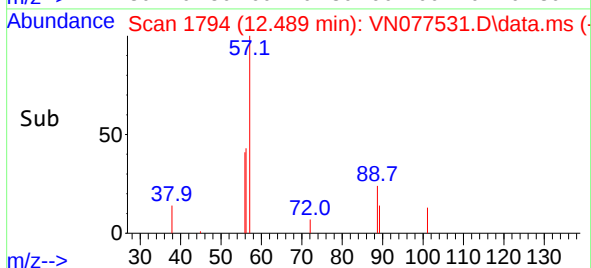
Tgt Ion:152 Resp: 372303
Ion Ratio Lower Upper
152 100
115 65.3 32.3 96.8
150 159.5 0.0 355.8

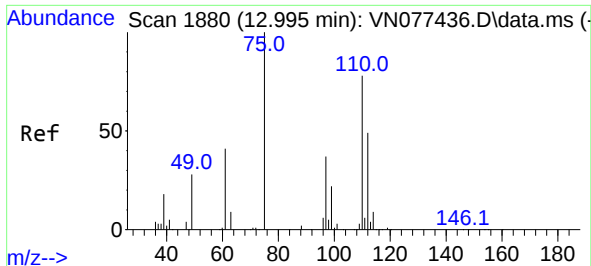


#74
N-ethyl acetate
Concen: 0.300 ug/l
RT: 12.489 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06



Tgt Ion: 43 Resp: 3067
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 0.0 21.4 32.0#
61 0.0 22.8 34.2#

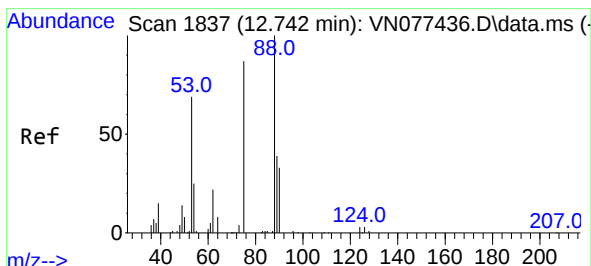
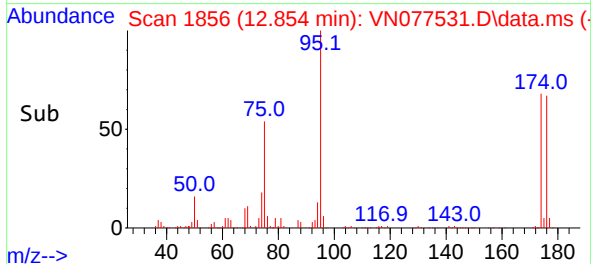
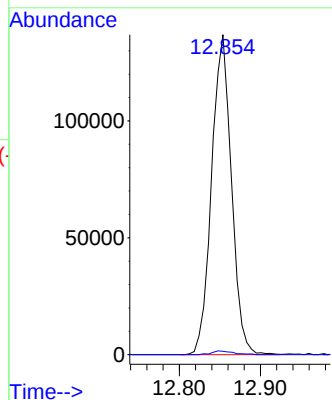
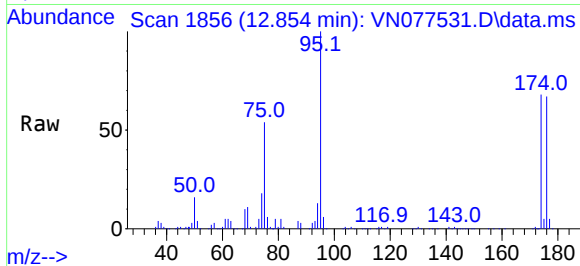




#76
1,2,3-Trichloropropane
Concen: 26.822 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

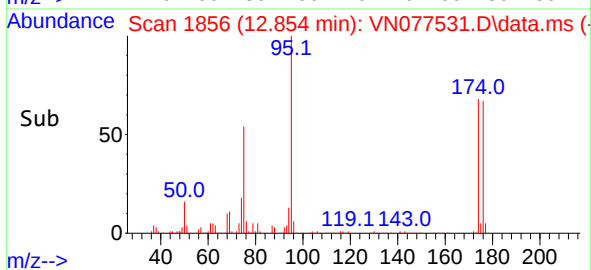
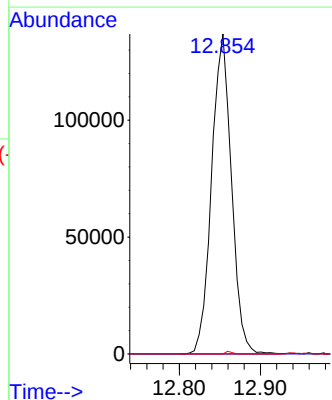
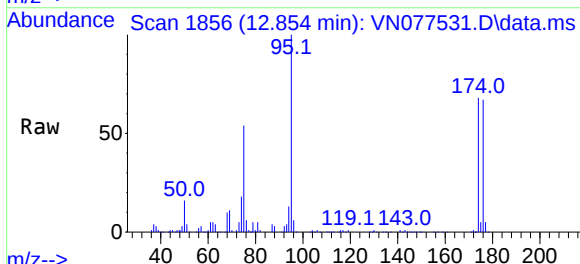
Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

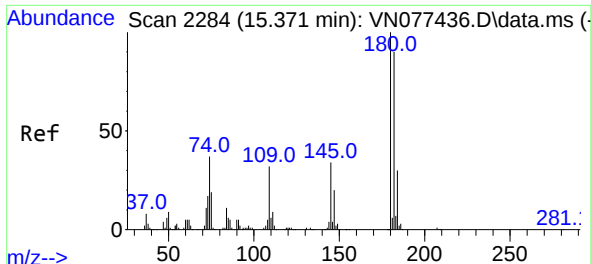
Tgt Ion: 75 Resp: 232208
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 75.775 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion: 75 Resp: 232208
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.3 38.8 58.2#

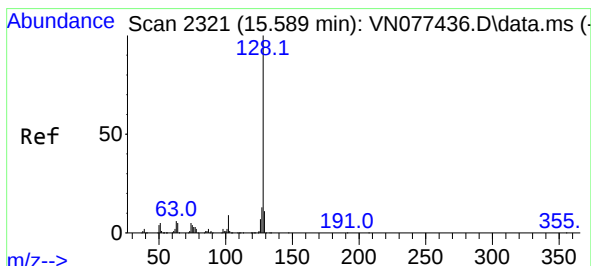
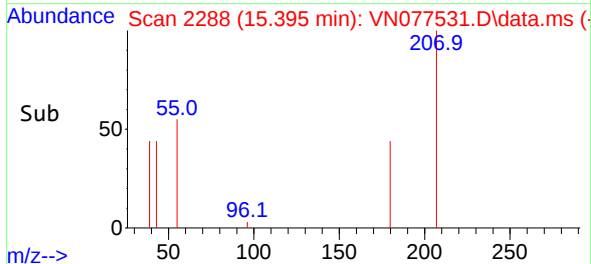
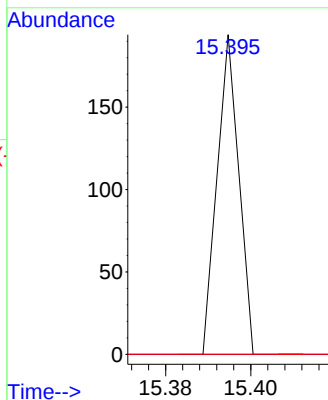
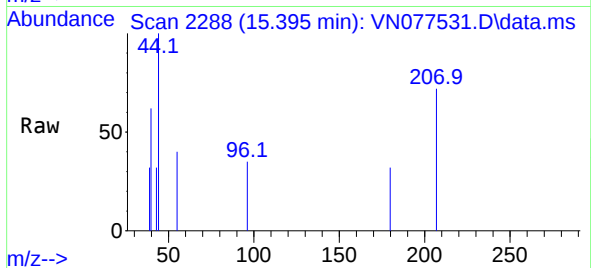




#93
1,2,4-Trichlorobenzene
Concen: 0.822 ug/l
RT: 15.395 min Scan# 21
Delta R.T. 0.024 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Instrument :
MSVOA_N
ClientSampleId :
BU-512-VOC-02

Tgt Ion:180 Resp: 68
Ion Ratio Lower Upper
180 100
182 0.0 46.1 138.2#
145 0.0 16.6 49.8#



#95
Naphthalene
Concen: 1.155 ug/l
RT: 15.630 min Scan# 2328
Delta R.T. 0.041 min
Lab File: VN077531.D
Acq: 29 Apr 2023 20:06

Tgt Ion:128 Resp: 142
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

