

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042923\
 Data File : VN077529.D
 Acq On : 29 Apr 2023 19:18
 Operator : JC\MD
 Sample : 02503-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-305A-VOC-03

Quant Time: May 01 01:25:53 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)

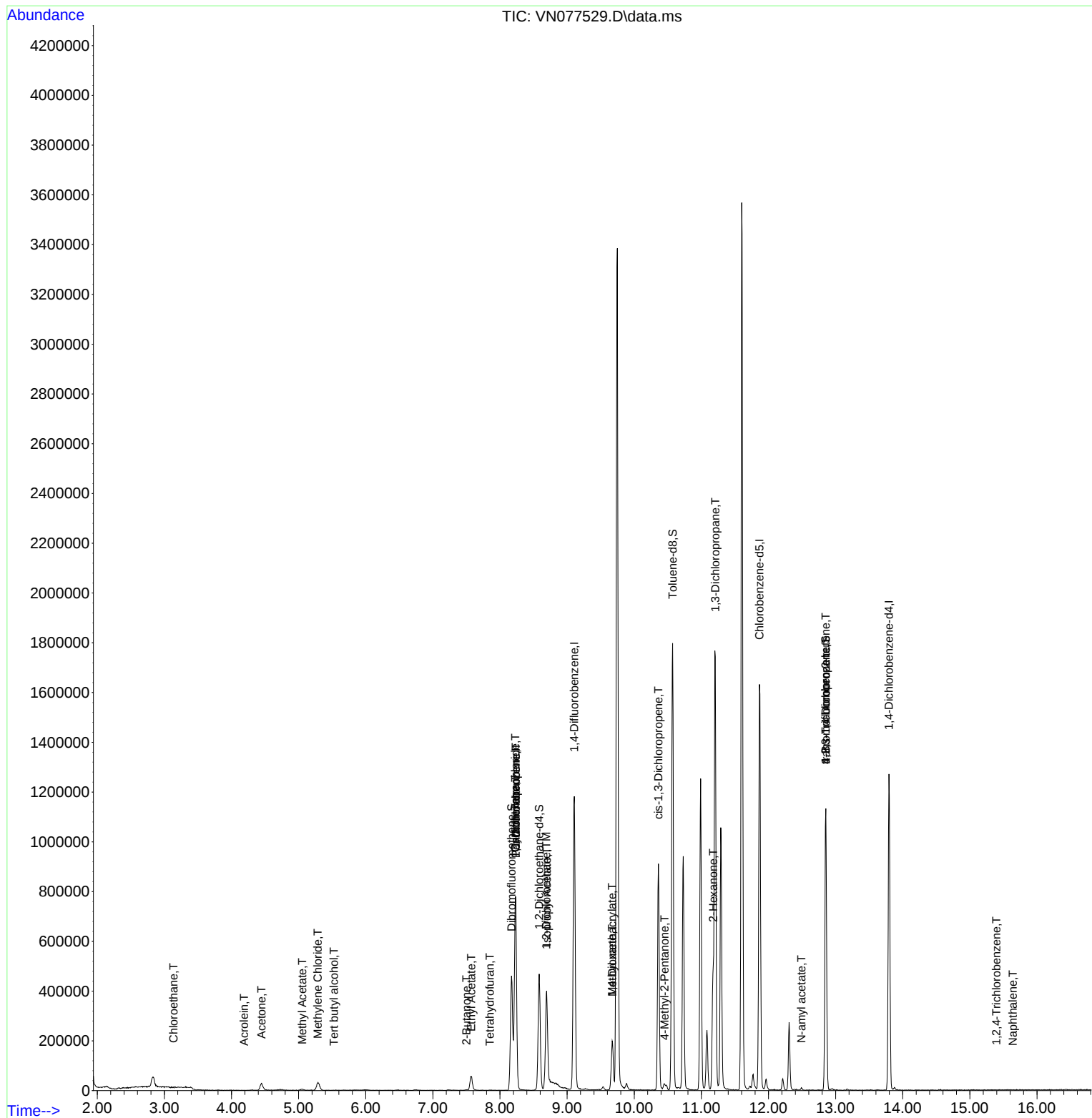
Internal Standards						
1) Pentafluorobenzene	8.236	168	561097	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1097401	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1022594	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	350193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	380697	51.996	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.000%			
35) Dibromofluoromethane	8.172	113	336357	50.995	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.000%			
50) Toluene-d8	10.572	98	1340531	53.029	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.060%			
62) 4-Bromofluorobenzene	12.854	95	417869	50.524	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.040%			
Target Compounds					Qvalue	
6) Chloroethane	3.137	64	2492	0.438	ug/l #	43
11) Tert butyl alcohol	5.525	59	325	0.277	ug/l #	72
13) Acrolein	4.190	56	493	0.422	ug/l #	42
16) Acetone	4.448	43	50744	21.785	ug/l	92
18) Methyl Acetate	5.054	43	10061	1.118	ug/l #	73
20) Methylene Chloride	5.284	84	28479	3.855	ug/l #	80
25) 2-Butanone	7.501	43	3854	1.167	ug/l #	81
29) Tetrahydrofuran	7.848	42	581	0.281	ug/l #	34
31) Cyclohexane	8.231	56	13441	1.296	ug/l #	15
36) 1,1-Dichloropropene	8.236	75	47427	4.977	ug/l #	49
37) Ethyl Acetate	7.572	43	89888	12.414	ug/l	98
38) Carbon Tetrachloride	8.231	117	63745	6.063	ug/l #	16
42) 1,2-Dichloroethane	8.689	62	3676	0.369	ug/l #	73
43) Isopropyl Acetate	8.695	43	451655	36.055	ug/l #	87
48) Methyl methacrylate	9.672	41	9656	1.693	ug/l #	33
49) 1,4-Dioxane	9.672	88	66	0.461	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	12227	1.664	ug/l #	78
54) cis-1,3-Dichloropropene	10.360	75	195226	16.596	ug/l #	60
57) 1,3-Dichloropropane	11.207	76	22799	1.872	ug/l #	43
59) 2-Hexanone	11.177	43	327526	61.324	ug/l #	19
74) N-amyl acetate	12.489	43	3170	0.329	ug/l #	51
76) 1,2,3-Trichloropropane	12.854	75	223406	27.434	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	223406	77.506	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.395	180	58	0.820	ug/l #	76
95) Naphthalene	15.642	128	332	1.176	ug/l #	76

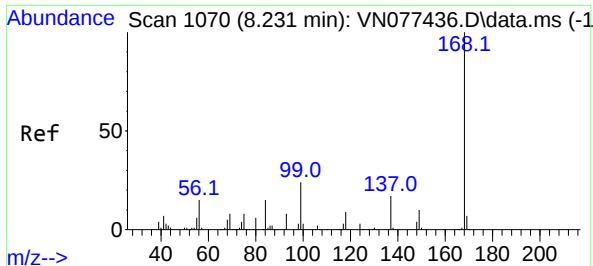
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 25 02:50:59 2023
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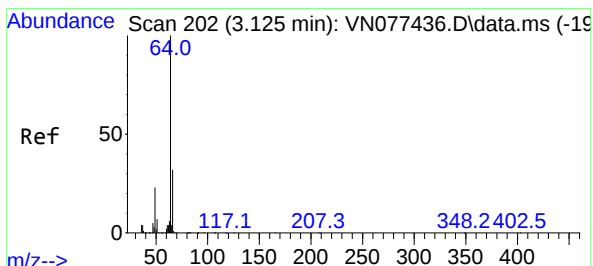
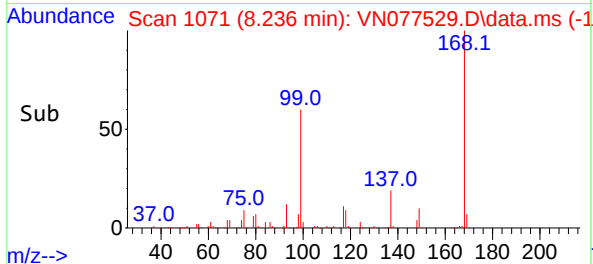
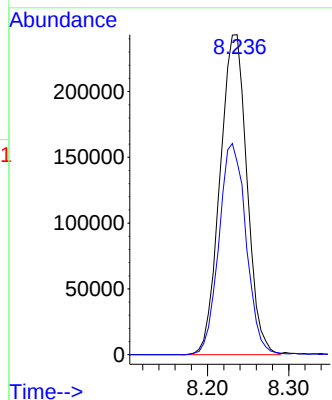
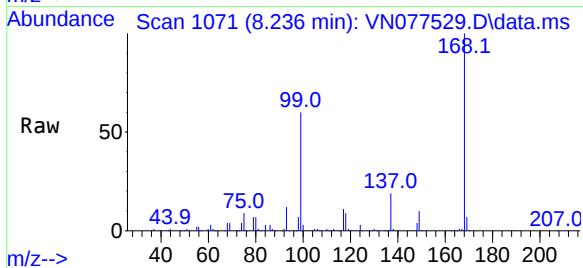




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

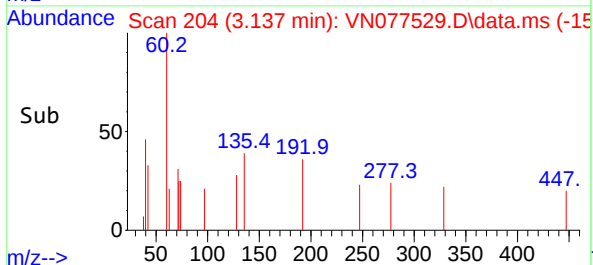
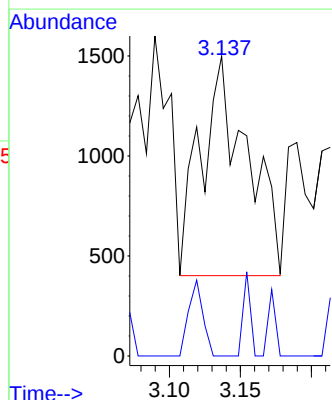
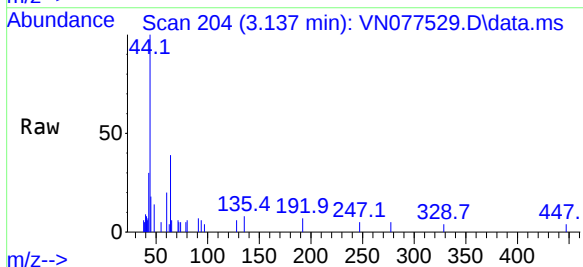
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

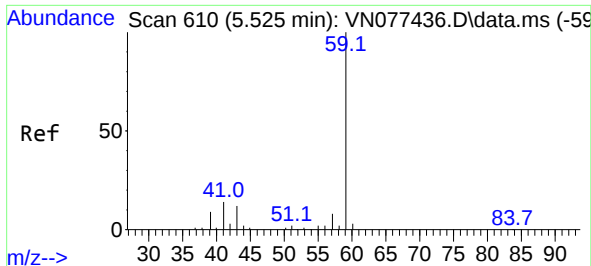
Tgt Ion:168 Resp: 561097
Ion Ratio Lower Upper
168 100
99 60.2 53.0 79.6



#6
Chloroethane
Concen: 0.438 ug/l
RT: 3.137 min Scan# 204
Delta R.T. 0.012 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 64 Resp: 2492
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

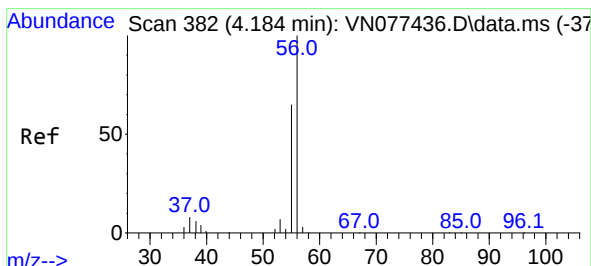
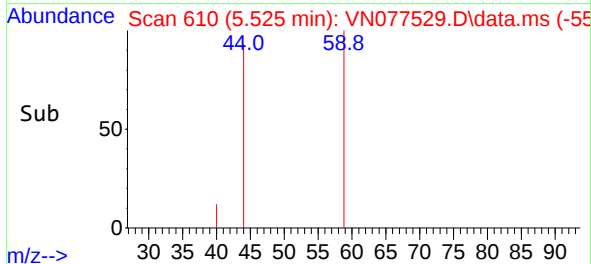
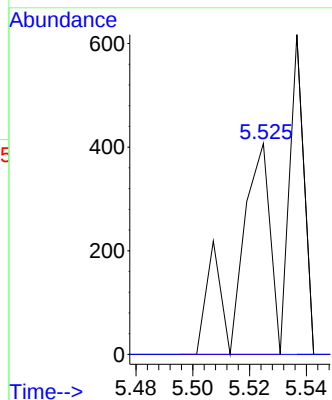
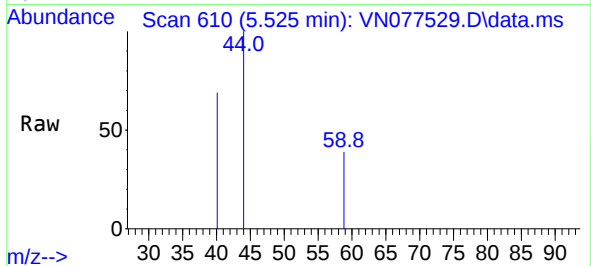




#11
Tert butyl alcohol
Concen: 0.277 ug/l
RT: 5.525 min Scan# 610
Delta R.T. -0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

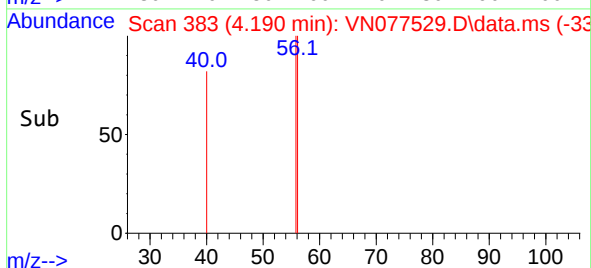
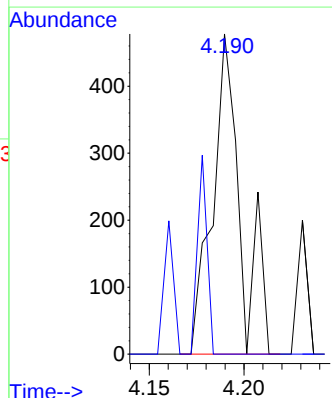
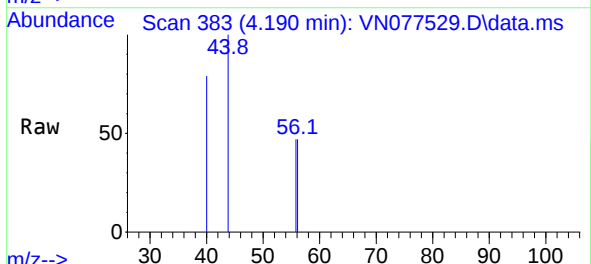
Instrument :
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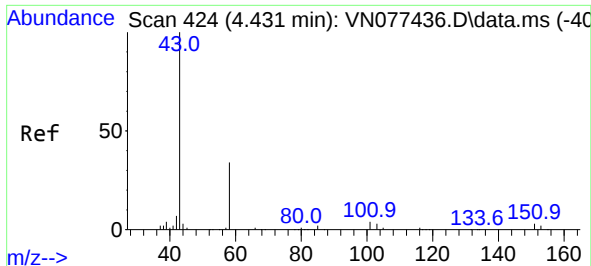
Tgt Ion: 59 Resp: 325
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.422 ug/l
RT: 4.190 min Scan# 383
Delta R.T. 0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 56 Resp: 493
Ion Ratio Lower Upper
56 100
55 21.3 54.5 81.7#

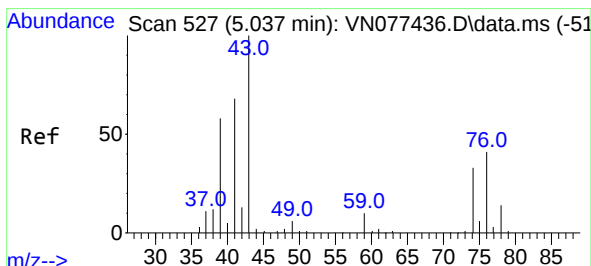
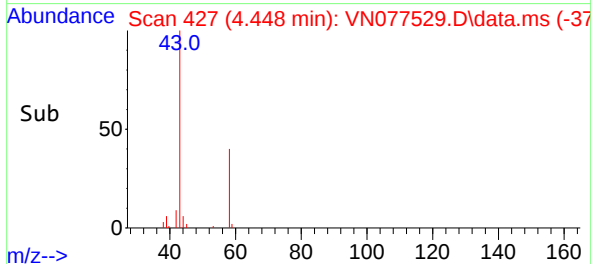
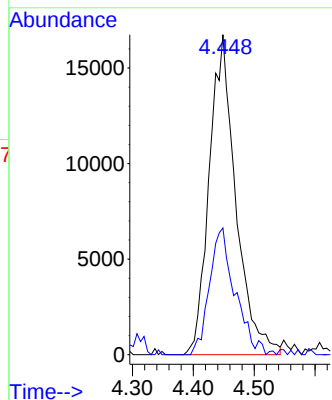
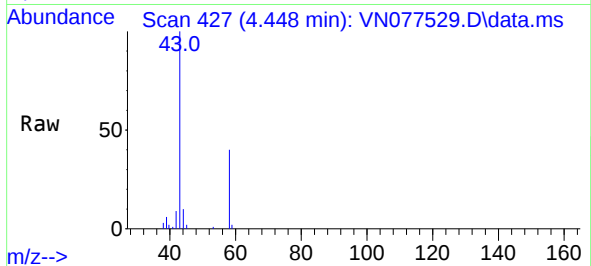




#16
Acetone
Concen: 21.785 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

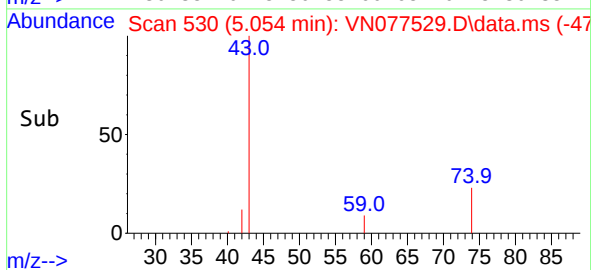
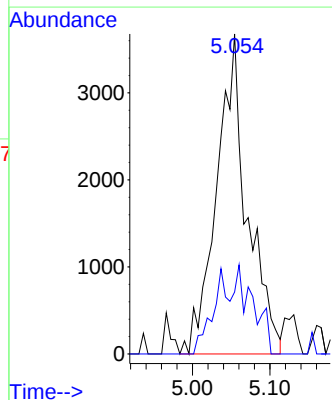
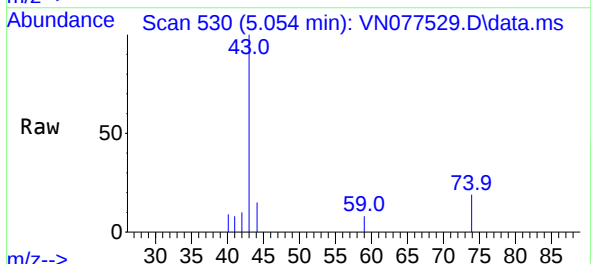
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

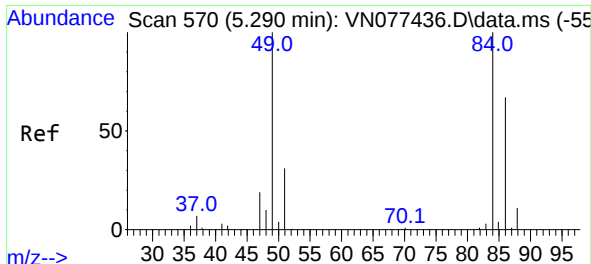
Tgt Ion: 43 Resp: 50744
Ion Ratio Lower Upper
43 100
58 39.6 28.0 42.0



#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 5.054 min Scan# 530
Delta R.T. 0.018 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 43 Resp: 10061
Ion Ratio Lower Upper
43 100
74 17.4 26.2 39.4#

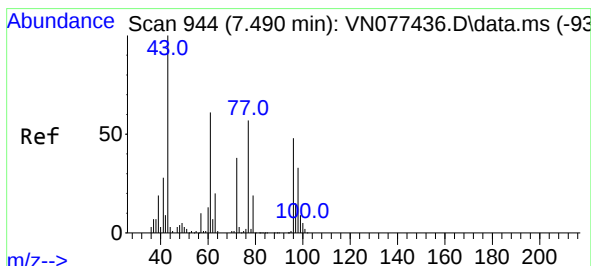
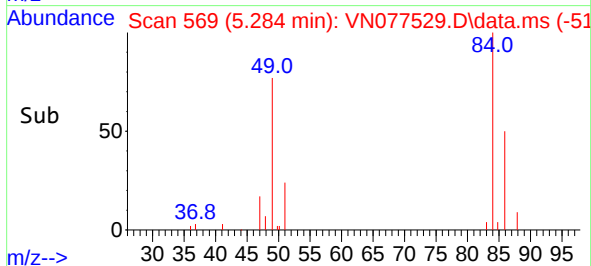
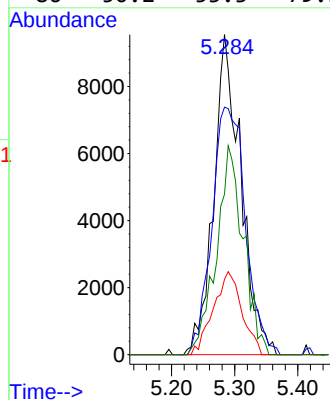
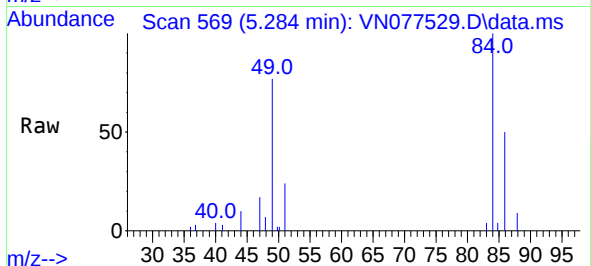




#20
Methylene Chloride
Concen: 3.855 ug/l
RT: 5.284 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

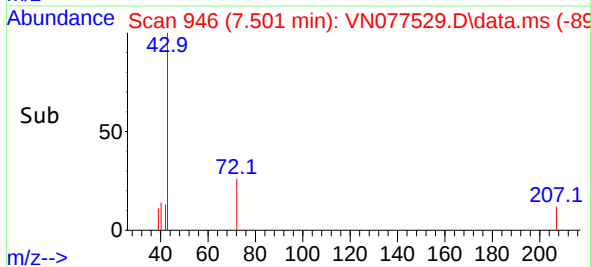
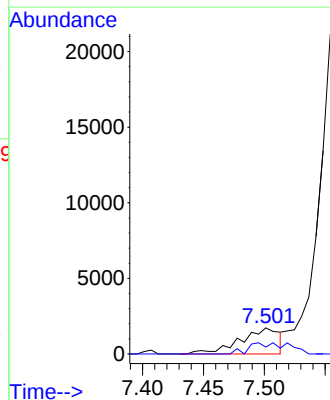
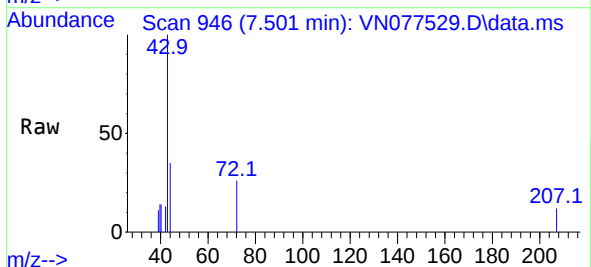
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

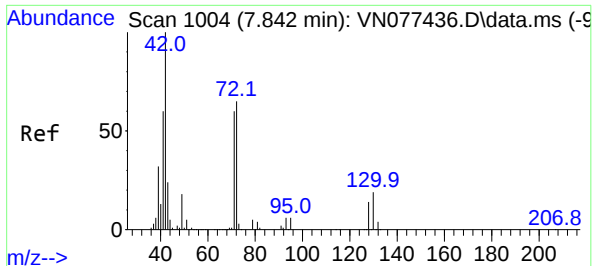
Tgt Ion: 84	Resp: 28479
Ion Ratio	Lower Upper
84 100	
49 77.3	79.7 119.5#
51 23.6	25.2 37.8#
86 50.2	53.3 79.9#



#25
2-Butanone
Concen: 1.167 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 43	Resp: 3854
Ion Ratio	Lower Upper
43 100	
72 26.4	30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 7.848 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN077529.D

Acq: 29 Apr 2023 19:18

Instrument :

MSVOA_N

ClientSampleId :

TR-305A-VOC-03

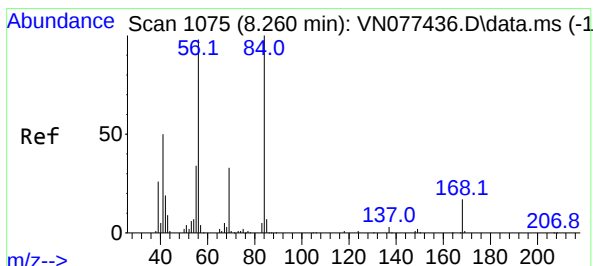
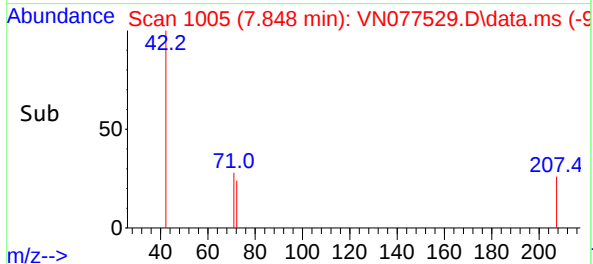
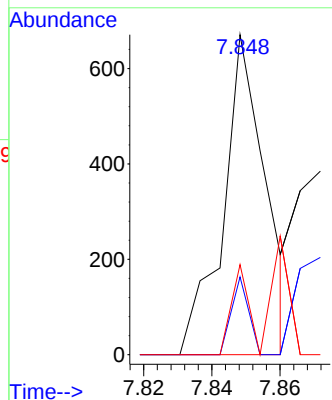
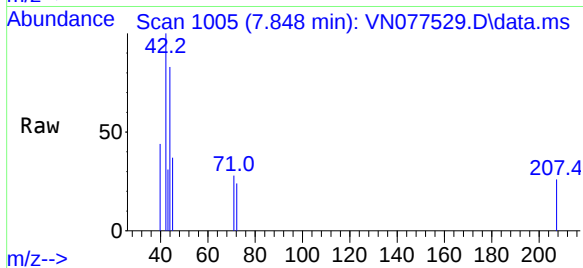
Tgt Ion: 42 Resp: 581

Ion Ratio Lower Upper

42 100

72 9.8 49.8 74.6#

71 11.5 47.4 71.2#



#31

Cyclohexane

Concen: 1.296 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.029 min

Lab File: VN077529.D

Acq: 29 Apr 2023 19:18

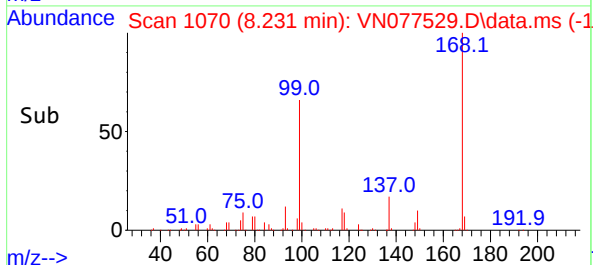
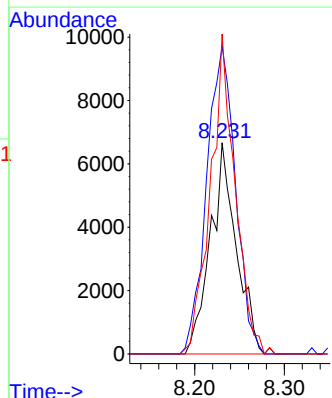
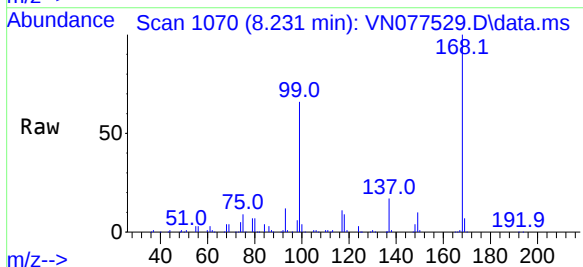
Tgt Ion: 56 Resp: 13441

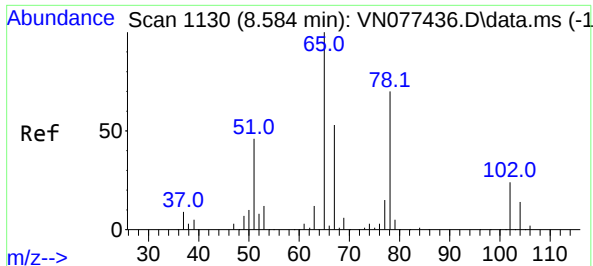
Ion Ratio Lower Upper

56 100

69 145.7 26.8 40.2#

84 151.5 81.8 122.6#

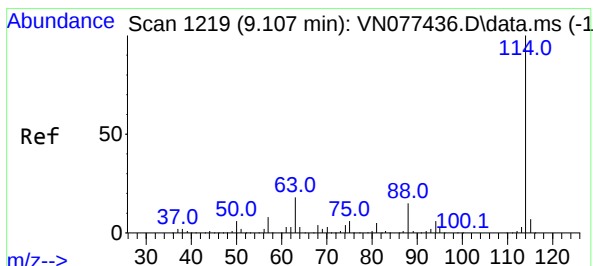
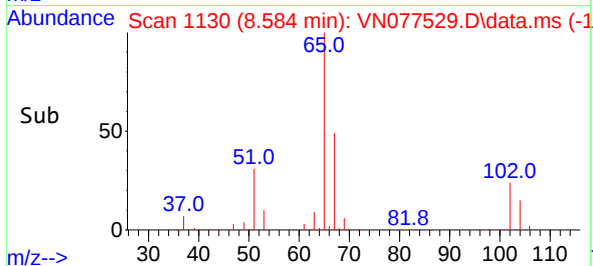
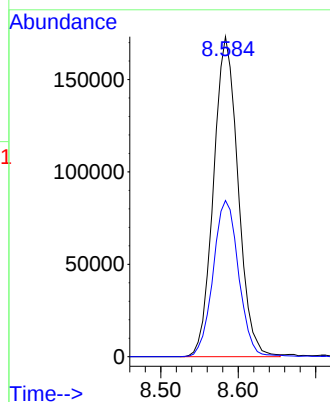
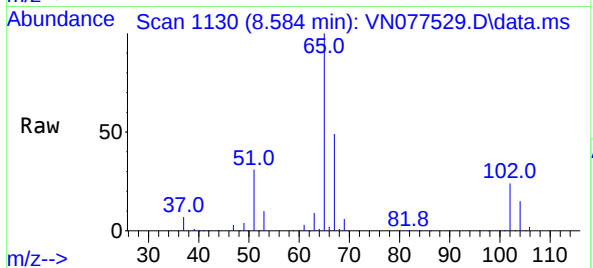




#33
1,2-Dichloroethane-d4
Concen: 51.996 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

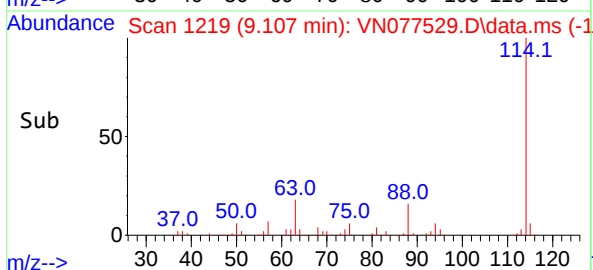
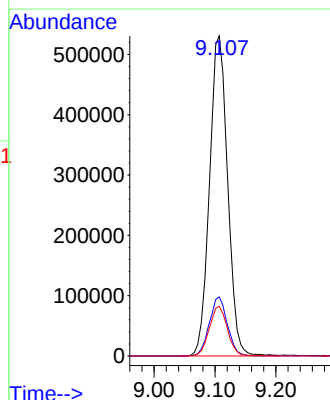
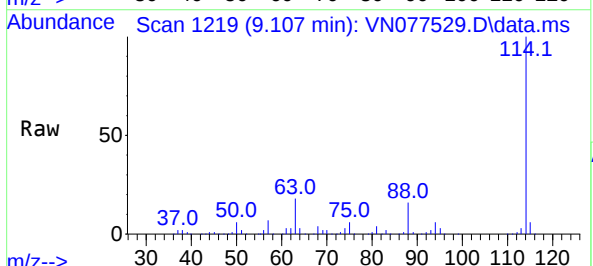
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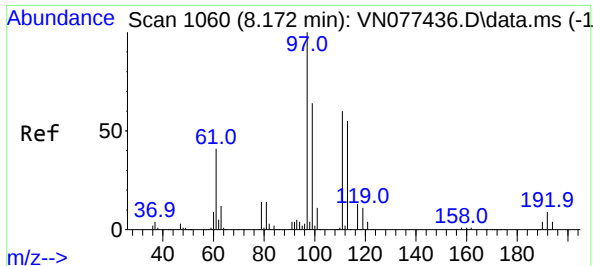
Tgt Ion: 65 Resp: 380697
Ion Ratio Lower Upper
65 100
67 50.8 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. 0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 114 Resp: 1097401
Ion Ratio Lower Upper
114 100
63 18.4 0.0 36.4
88 15.5 0.0 30.6

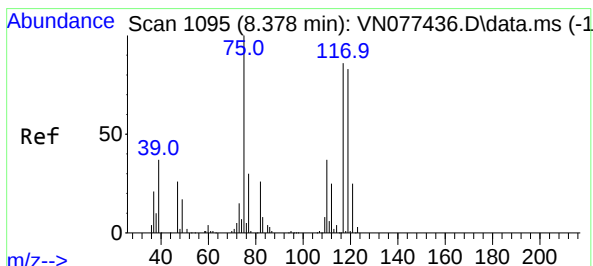
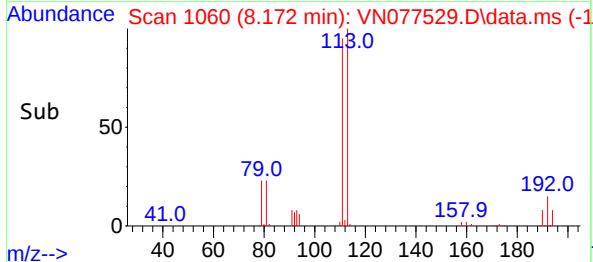
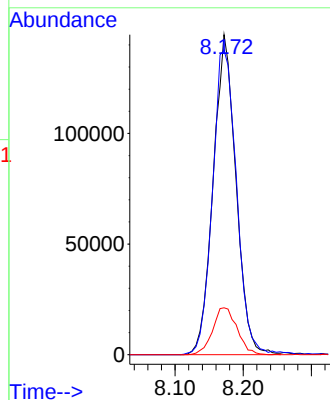
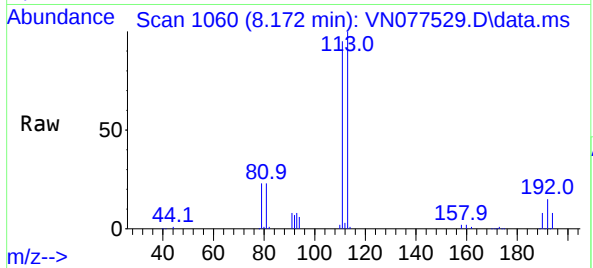




#35
Dibromofluoromethane
Concen: 50.995 ug/l
RT: 8.172 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

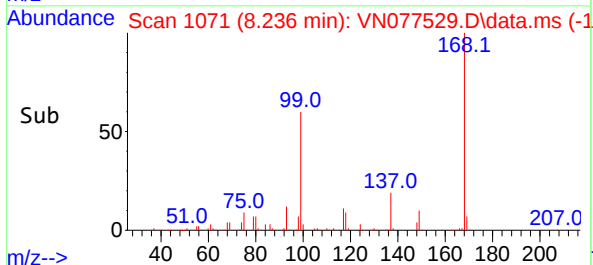
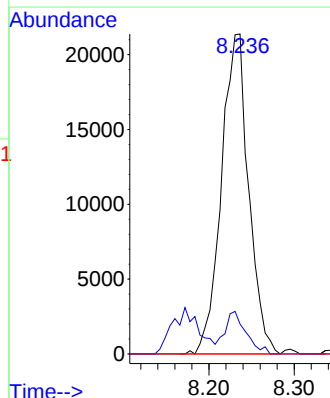
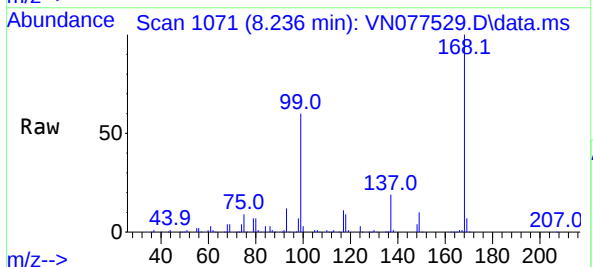
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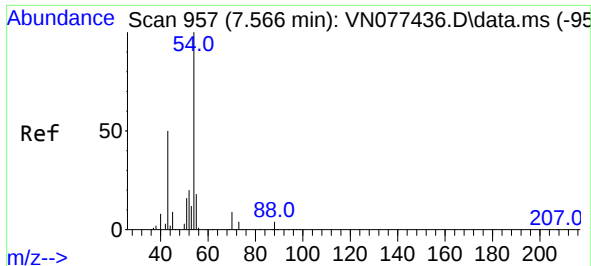
Tgt Ion:113 Resp: 336357
Ion Ratio Lower Upper
113 100
111 101.1 82.6 123.8
192 15.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.977 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.141 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 75 Resp: 47427
Ion Ratio Lower Upper
75 100
110 10.3 19.1 57.3#
77 0.0 25.0 37.4#

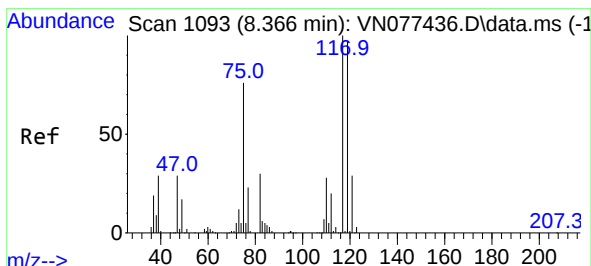
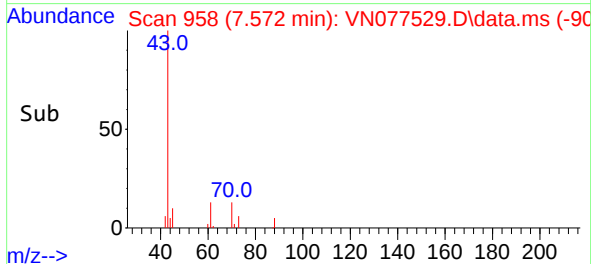
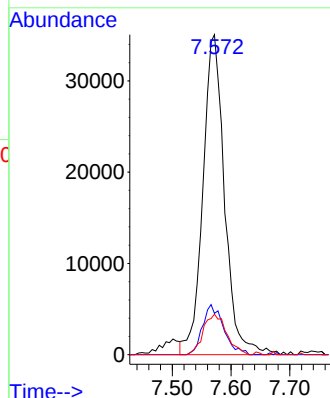
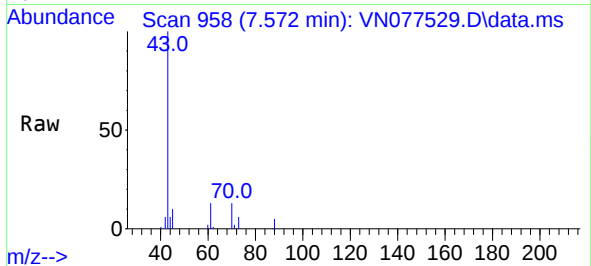




#37
Ethyl Acetate
Concen: 12.414 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

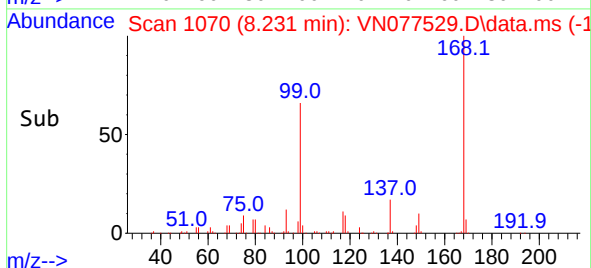
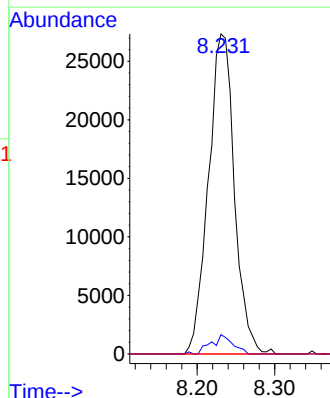
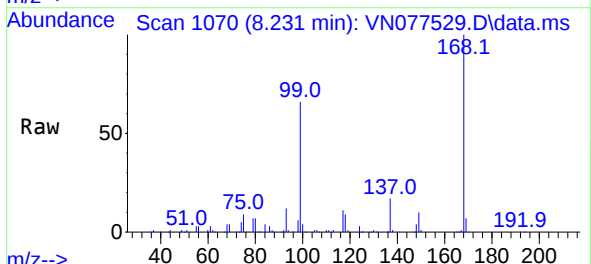
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

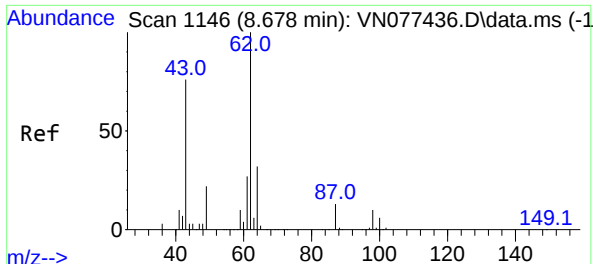
Tgt Ion:	43	Resp:	89888
Ion	Ratio	Lower	Upper
43	100		
61	15.2	13.2	19.8
70	13.6	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.063 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion:	117	Resp:	63745
Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.3	115.9#
121	0.0	23.3	34.9#

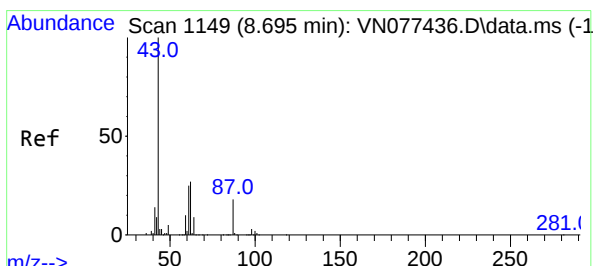
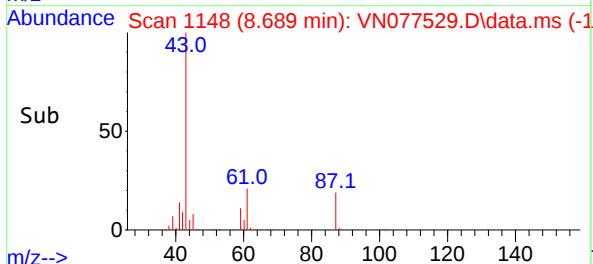
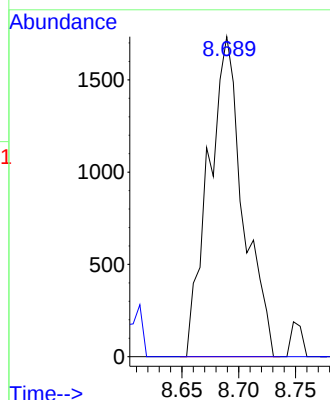
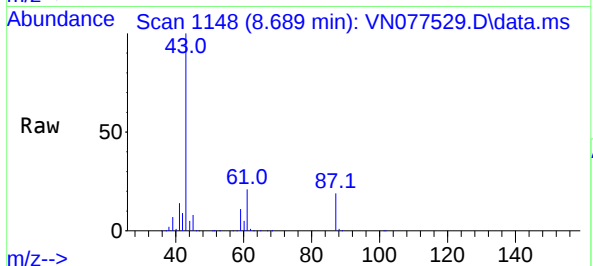




#42
1,2-Dichloroethane
Concen: 0.369 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. 0.012 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

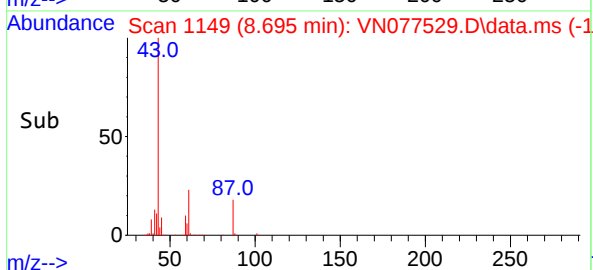
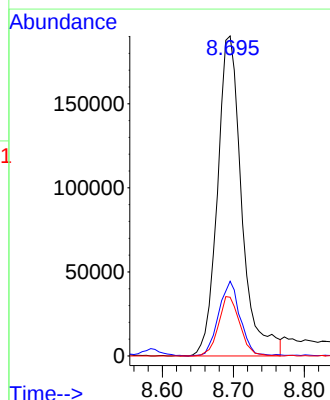
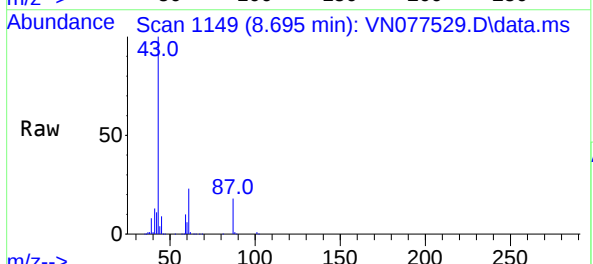
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

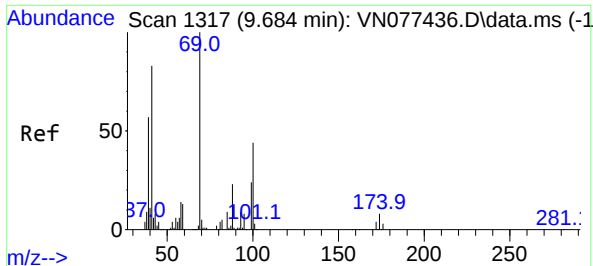
Tgt Ion: 62 Resp: 3676
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8



#43
Isopropyl Acetate
Concen: 36.055 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. -0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 43 Resp: 451655
Ion Ratio Lower Upper
43 100
61 20.7 24.7 37.1#
87 16.3 14.6 21.8





#48

Methyl methacrylate

Concen: 1.693 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.012 min

Lab File: VN077529.D

Acq: 29 Apr 2023 19:18

Instrument :

MSVOA_N

ClientSampleId :

TR-305A-VOC-03

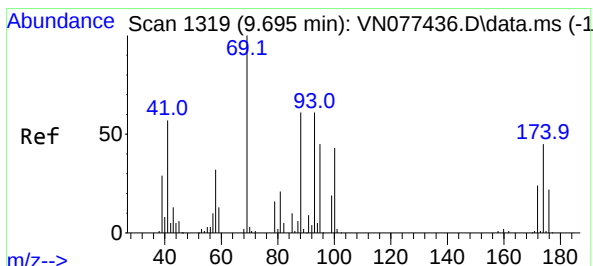
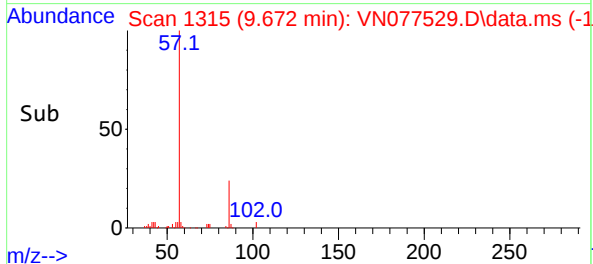
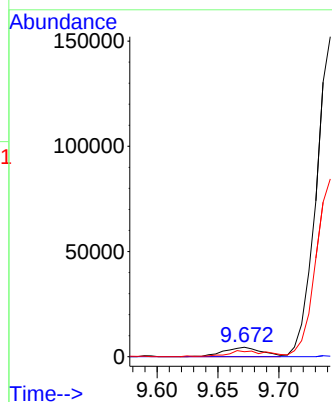
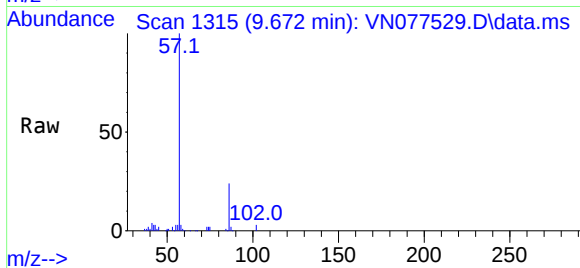
Tgt Ion: 41 Resp: 9656

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 70.8 54.6 81.8



#49

1,4-Dioxane

Concen: 0.461 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.024 min

Lab File: VN077529.D

Acq: 29 Apr 2023 19:18

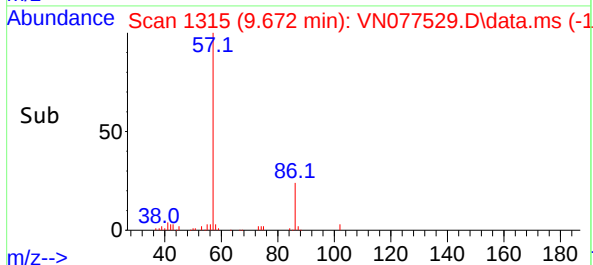
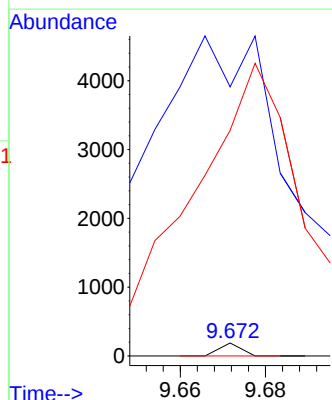
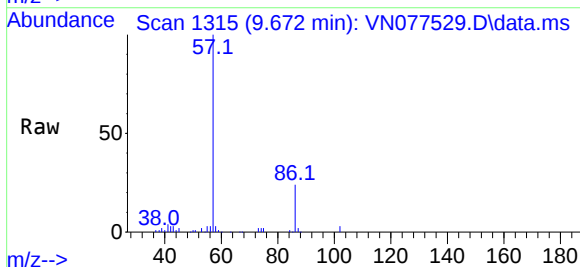
Tgt Ion: 88 Resp: 66

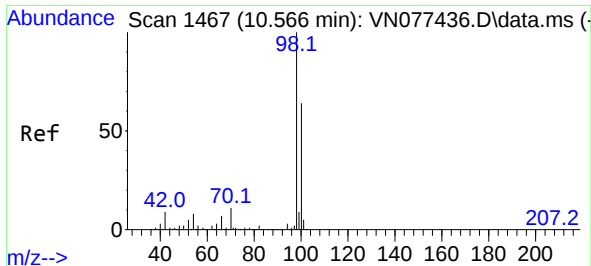
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 12869.7 47.0 70.4#

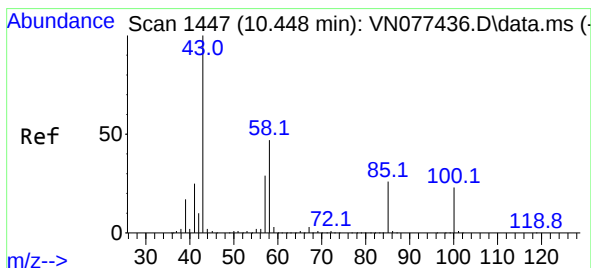
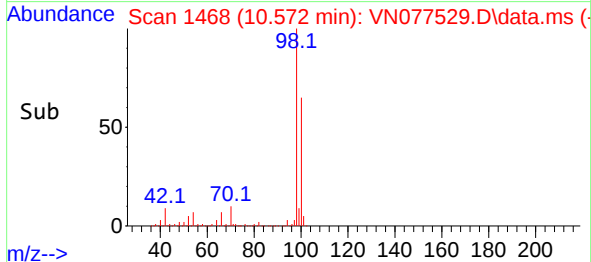
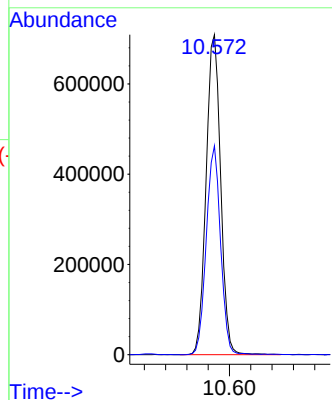
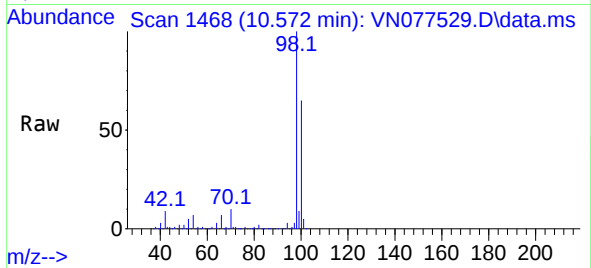




#50
Toluene-d8
Concen: 53.029 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

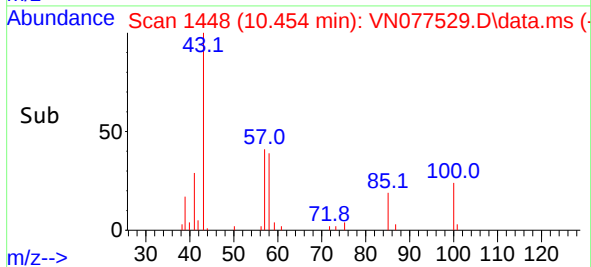
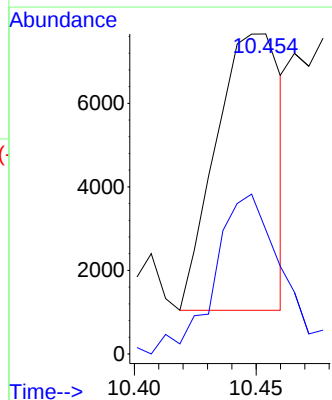
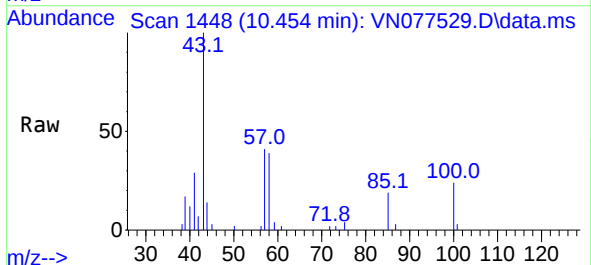
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

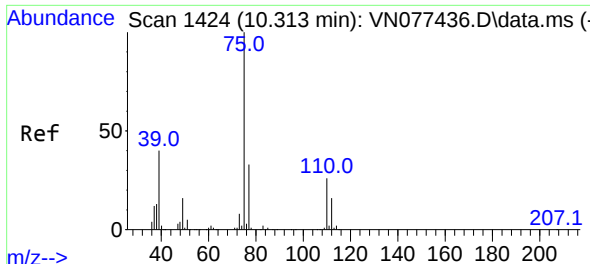
Tgt Ion: 98 Resp: 1340531
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.664 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 43 Resp: 12227
Ion Ratio Lower Upper
43 100
58 60.0 36.6 54.8#

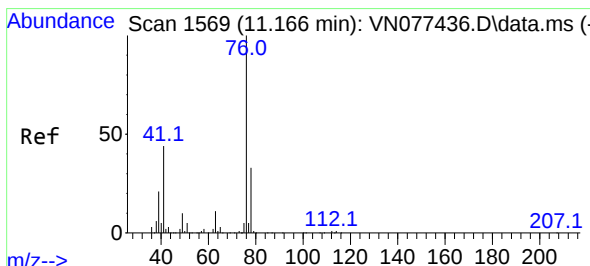
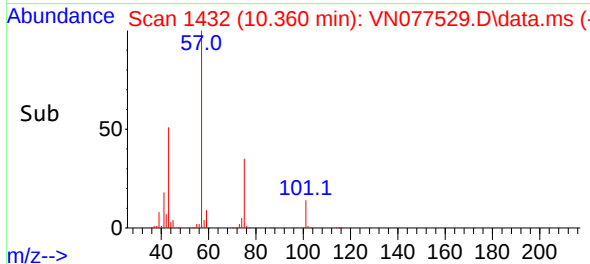
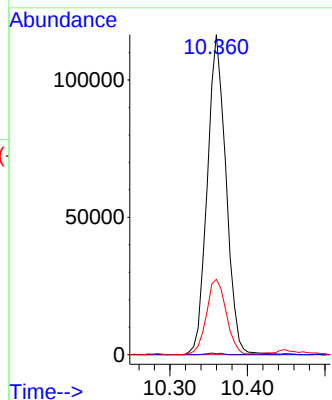
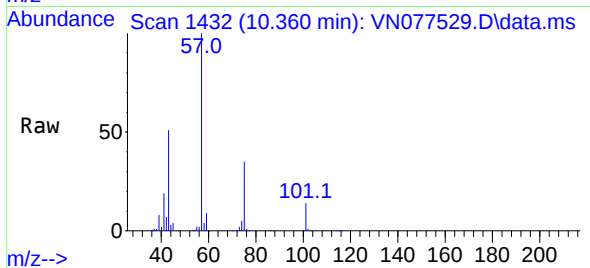




#54
cis-1,3-Dichloropropene
Concen: 16.596 ug/l
RT: 10.360 min Scan# 1424
Delta R.T. 0.047 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

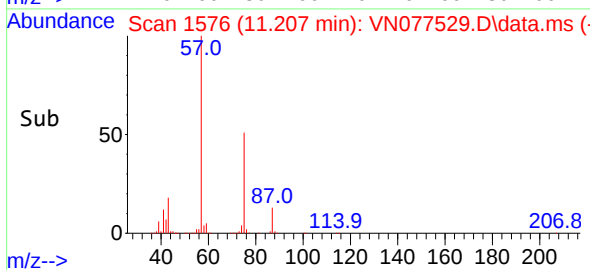
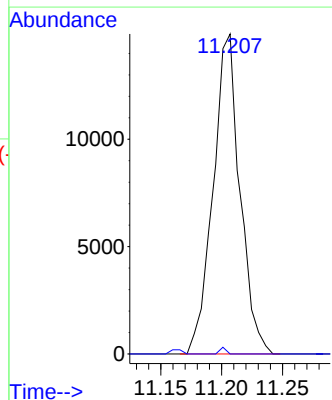
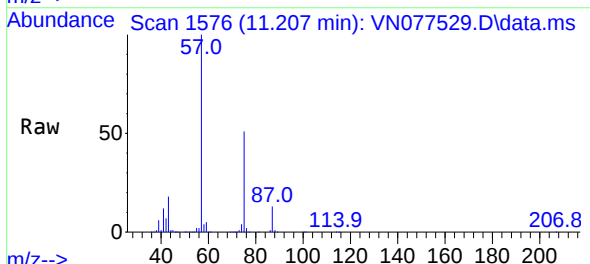
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

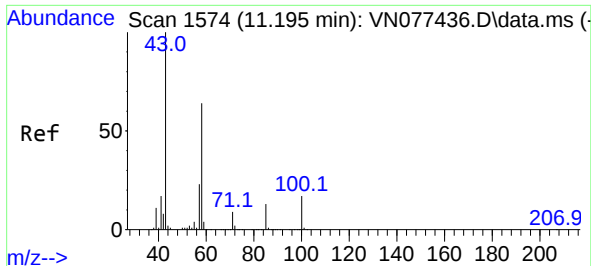
Tgt Ion: 75 Resp: 195226
Ion Ratio Lower Upper
75 100
77 0.3 26.1 39.1#
39 23.5 31.6 47.4#



#57
1,3-Dichloropropane
Concen: 1.872 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 76 Resp: 22799
Ion Ratio Lower Upper
76 100
78 0.5 26.1 39.1#

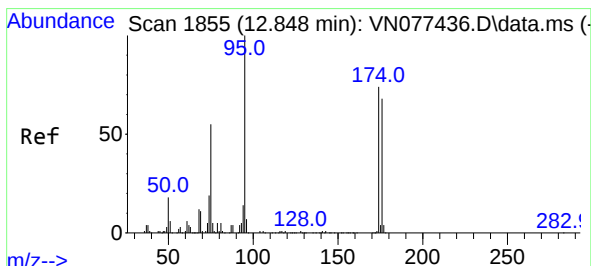
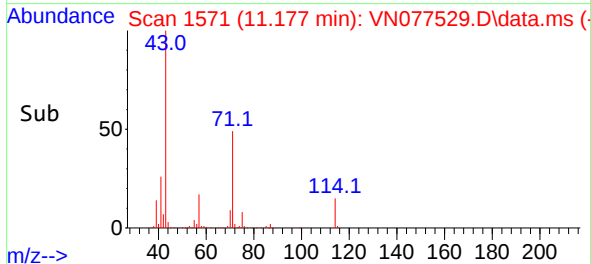
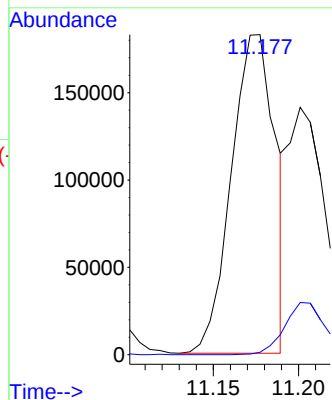
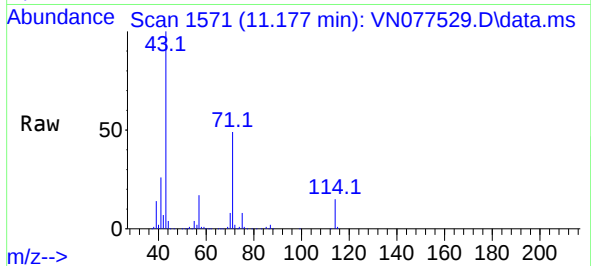




#59
2-Hexanone
Concen: 61.324 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.018 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

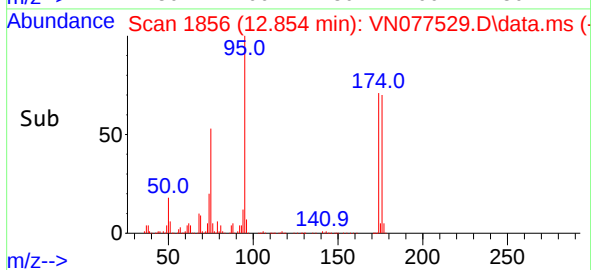
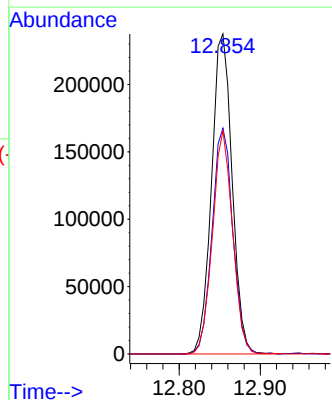
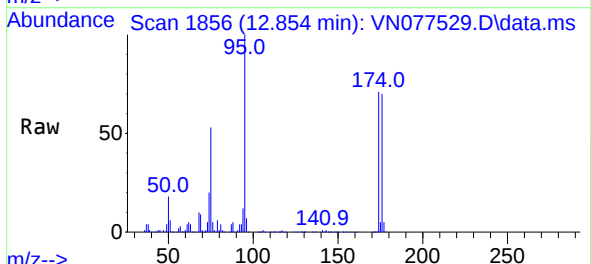
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

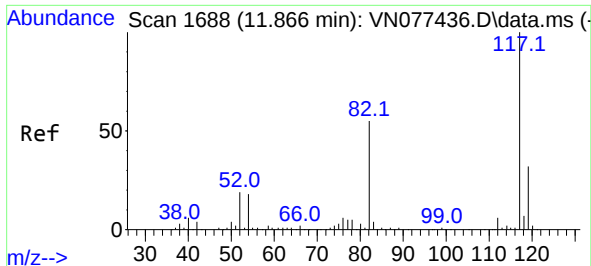
Tgt Ion: 43 Resp: 327526
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.524 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 95 Resp: 417869
Ion Ratio Lower Upper
95 100
174 71.3 0.0 143.8
176 67.9 0.0 135.8

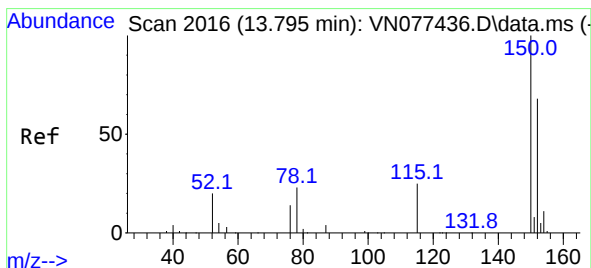
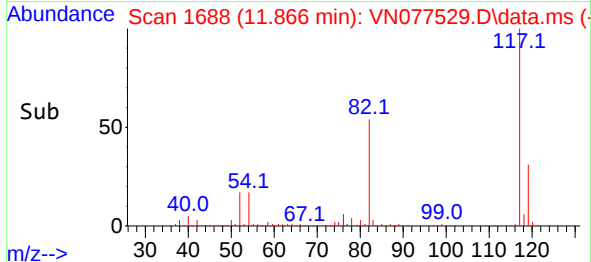
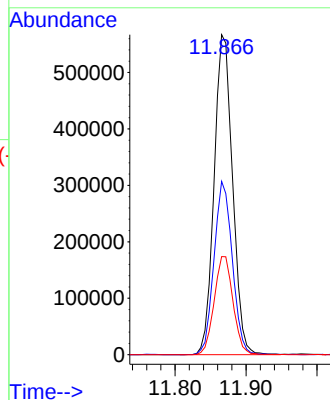
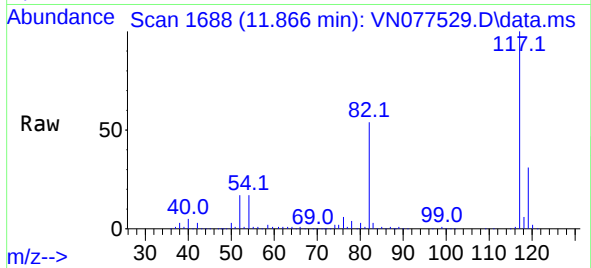




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

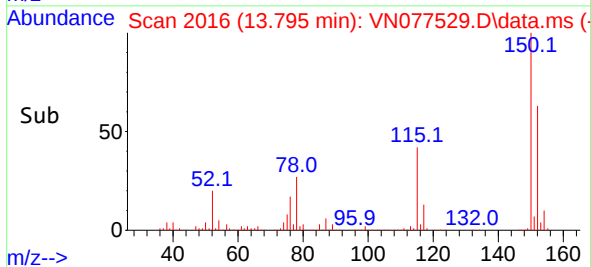
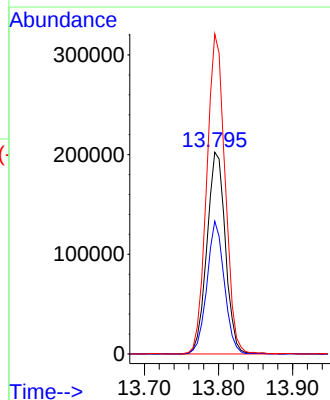
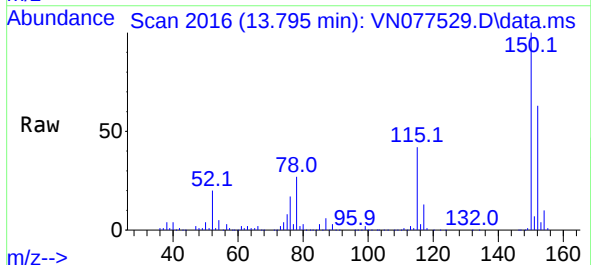
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

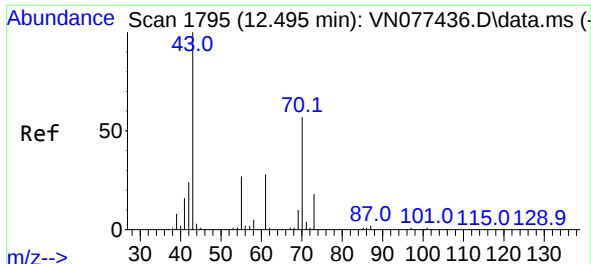
Tgt Ion:117 Resp: 1022594
Ion Ratio Lower Upper
117 100
82 54.1 44.0 66.0
119 30.6 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion:152 Resp: 350193
Ion Ratio Lower Upper
152 100
115 62.3 32.3 96.8
150 158.0 0.0 355.8



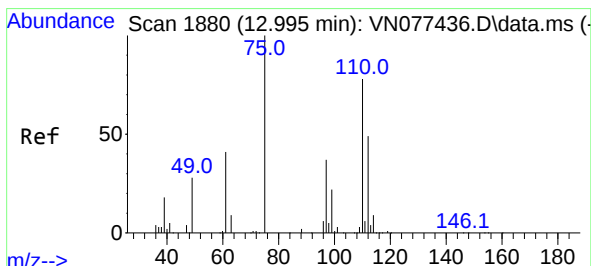
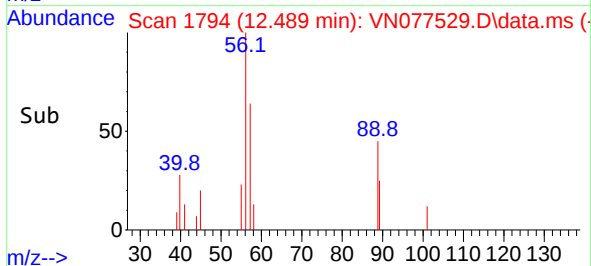
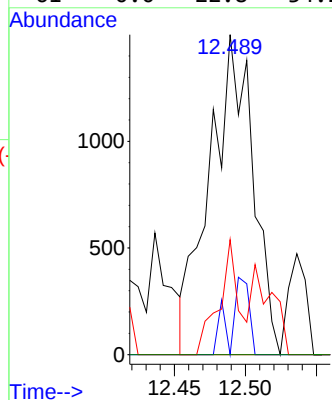
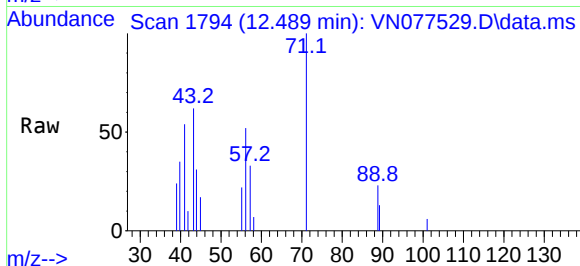


#74
N-amy1 acetate
Concen: 0.329 ug/l
RT: 12.489 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

Tgt Ion: 43 Resp: 3170

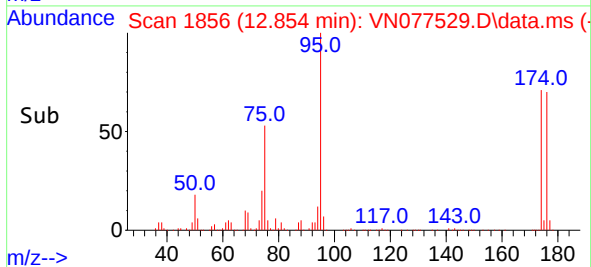
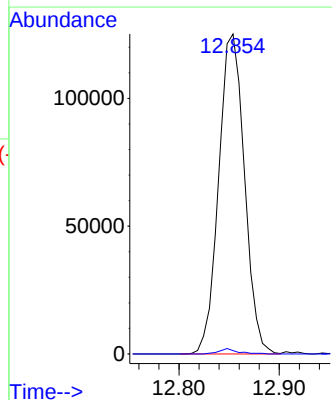
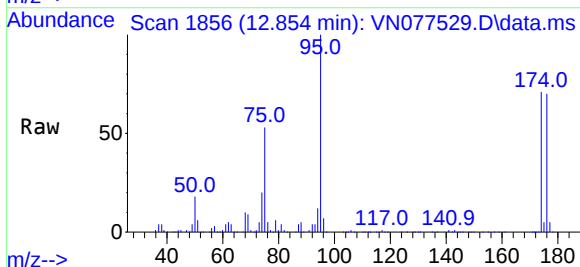
Ion	Ratio	Lower	Upper
43	100		
70	10.6	43.4	65.2#
55	16.3	21.4	32.0#
61	0.0	22.8	34.2#

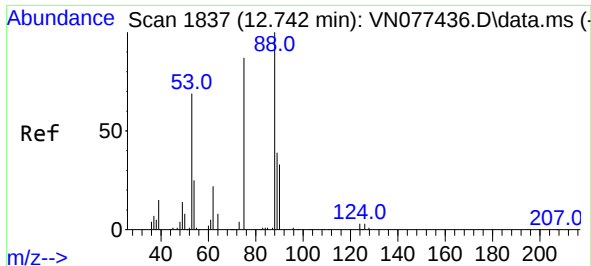


#76
1,2,3-Trichloropropane
Concen: 27.434 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Tgt Ion: 75 Resp: 223406

Ion	Ratio	Lower	Upper
75	100		
77	1.2	84.5	253.5#

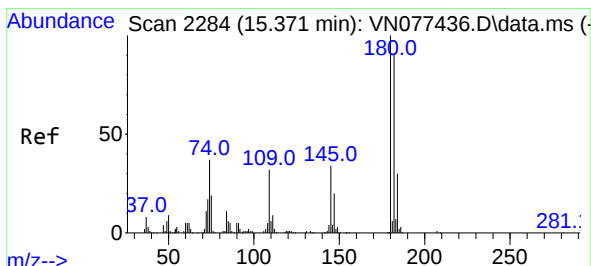
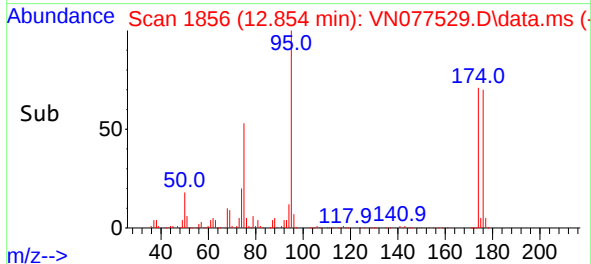
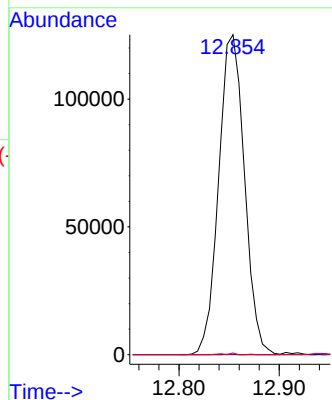
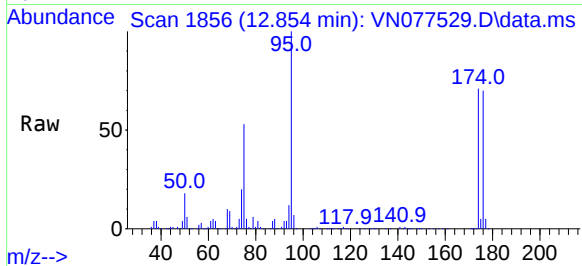




#81
trans-1,4-Dichloro-2-butene
Concen: 77.506 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

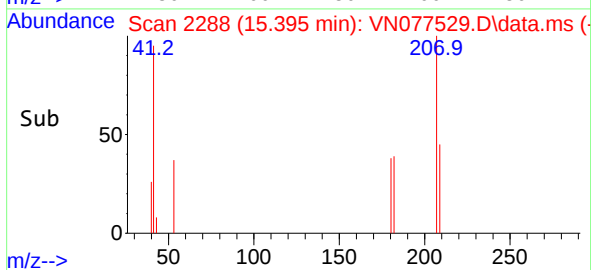
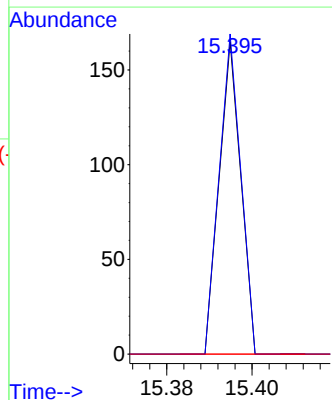
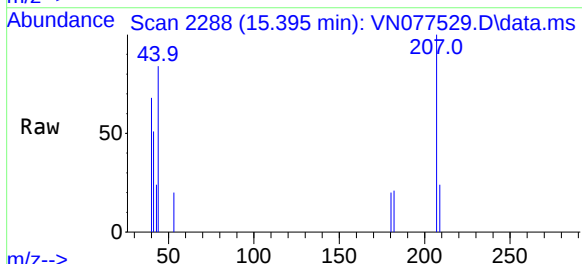
Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03

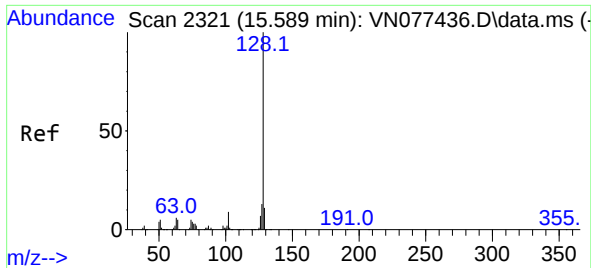
Tgt Ion: 75 Resp: 223406
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.820 ug/l
RT: 15.395 min Scan# 2288
Delta R.T. 0.024 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

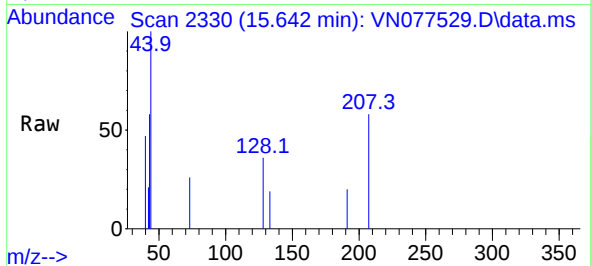
Tgt Ion:180 Resp: 58
Ion Ratio Lower Upper
180 100
182 103.4 46.1 138.2
145 0.0 16.6 49.8#





#95
Naphthalene
Concen: 1.176 ug/l
RT: 15.642 min Scan# 21
Delta R.T. 0.053 min
Lab File: VN077529.D
Acq: 29 Apr 2023 19:18

Instrument :
MSVOA_N
ClientSampleId :
TR-305A-VOC-03



Tgt Ion:128 Resp: 332
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 16.9 8.7 13.1#

