

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052623\
 Data File : VN077946.D
 Acq On : 27 May 2023 00:51
 Operator : JC\MD
 Sample : 02916-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-621-VOC-01

Quant Time: May 29 01:40:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

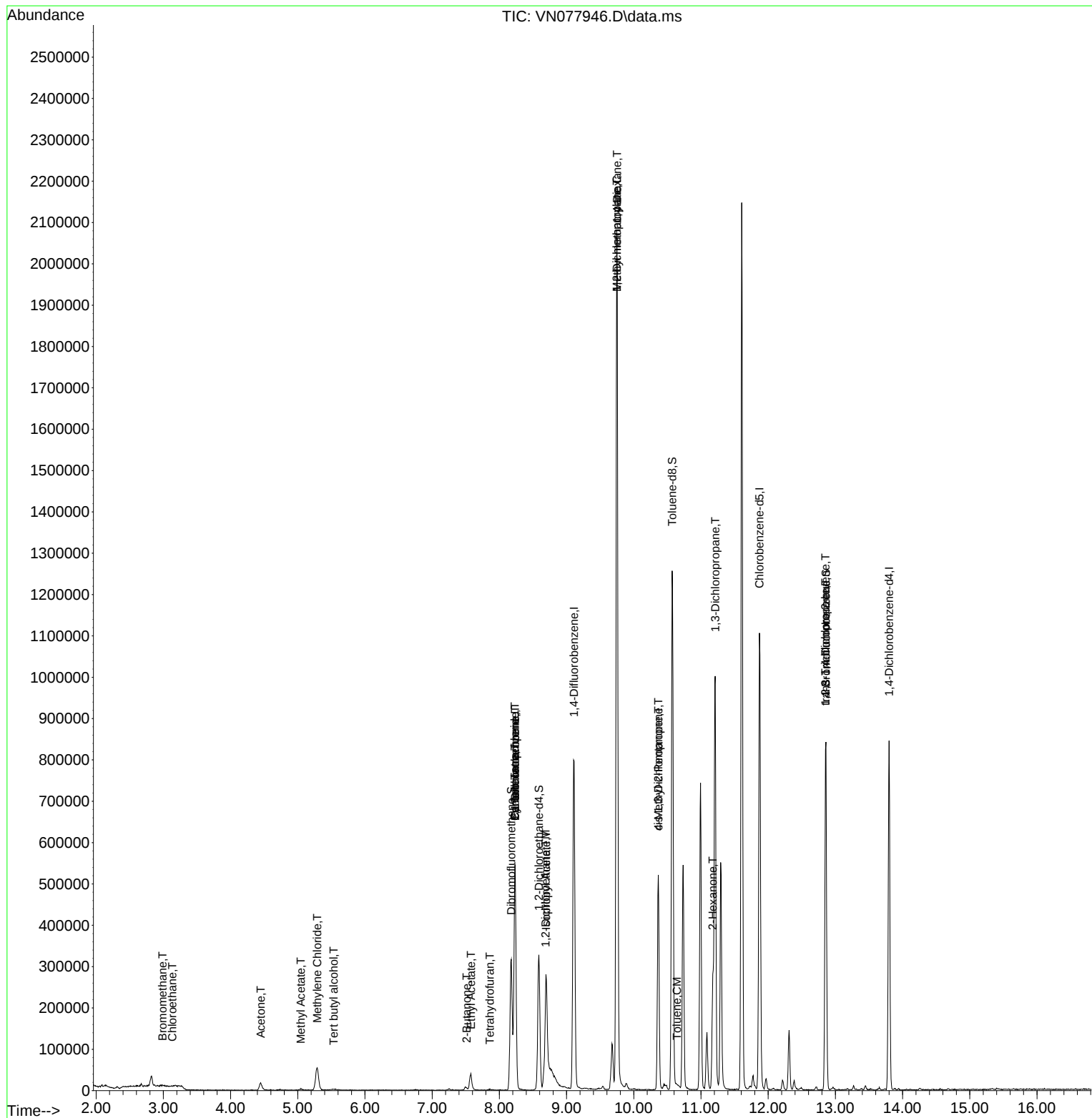
Internal Standards						
1) Pentafluorobenzene	8.235	168	385199	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	725364	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	670958	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	225372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	269036	46.679	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.360%
35) Dibromofluoromethane	8.177	113	229857	48.595	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.200%
50) Toluene-d8	10.570	98	915124	50.264	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.520%
62) 4-Bromofluorobenzene	12.859	95	303805	47.248	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1174	Below Cal	#	85
5) Bromomethane	2.989	94	2102	0.514	ug/l	99
6) Chloroethane	3.136	64	827	0.208	ug/l #	43
11) Tert butyl alcohol	5.535	59	1473	1.852	ug/l #	72
13) Acrolein	4.224	56	54	Below Cal	#	16
16) Acetone	4.447	43	31051	17.124	ug/l	96
18) Methyl Acetate	5.047	43	3668	0.482	ug/l	94
20) Methylene Chloride	5.288	84	44261	7.707	ug/l	89
25) 2-Butanone	7.512	43	11434	4.031	ug/l #	67
29) Tetrahydrofuran	7.859	42	1342	0.723	ug/l #	46
31) Cyclohexane	8.229	56	9232	1.179	ug/l #	15
36) 1,1-Dichloropropene	8.235	75	32871	4.751	ug/l #	47
37) Ethyl Acetate	7.577	43	57628	9.345	ug/l #	95
38) Carbon Tetrachloride	8.229	117	43739	6.261	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2328	0.314	ug/l #	73
43) Isopropyl Acetate	8.694	43	345724	34.325	ug/l #	77
45) 1,2-Dichloropropane	9.747	63	2948	0.566	ug/l #	45
48) Methyl methacrylate	9.747	41	191252	40.049	ug/l #	28
49) 1,4-Dioxane	9.753	88	275	3.049	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	190915	31.888	ug/l #	41
52) Toluene	10.641	92	3977	0.313	ug/l	95
54) cis-1,3-Dichloropropene	10.365	75	96342	11.572	ug/l #	71
57) 1,3-Dichloropropane	11.212	76	10525	1.217	ug/l #	43
59) 2-Hexanone	11.176	43	210503	47.535	ug/l #	19
76) 1,2,3-Trichloropropane	12.853	75	166394	29.481	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	166394	94.236	ug/l #	15

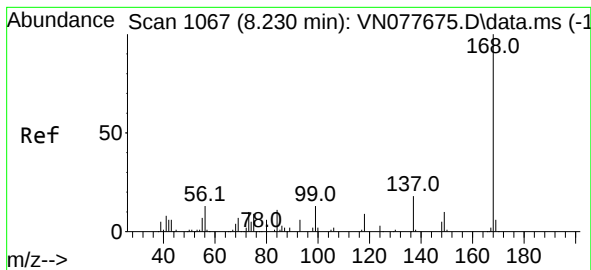
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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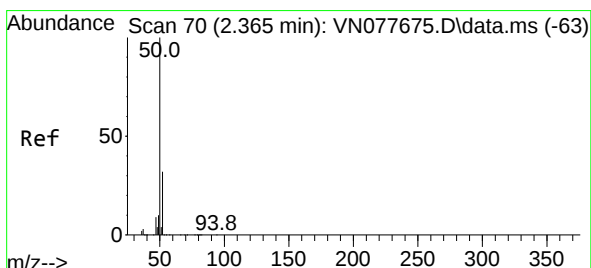
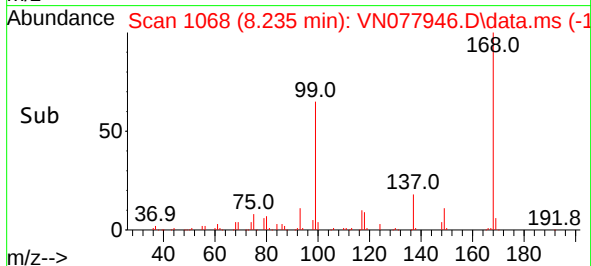
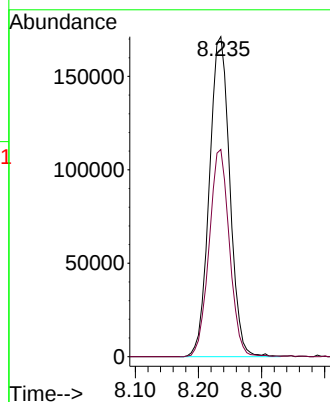
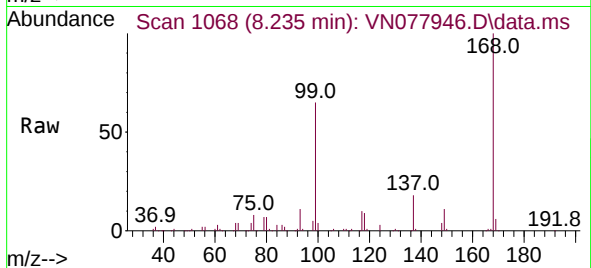




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

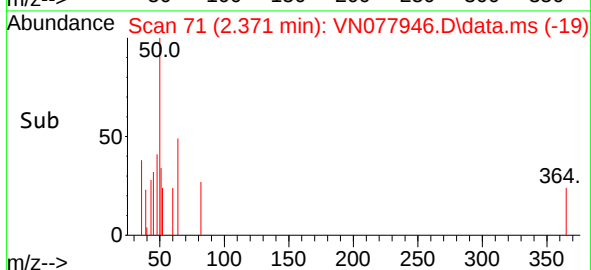
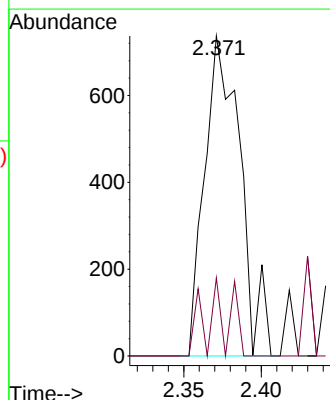
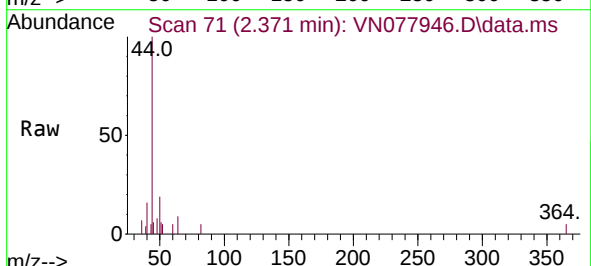
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

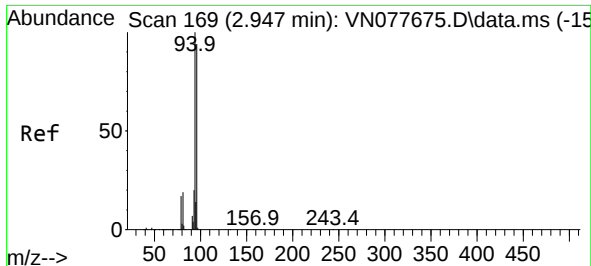
Tgt Ion:168 Resp: 385199
Ion Ratio Lower Upper
168 100
99 64.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 50 Resp: 1174
Ion Ratio Lower Upper
50 100
52 24.4 26.5 39.7#

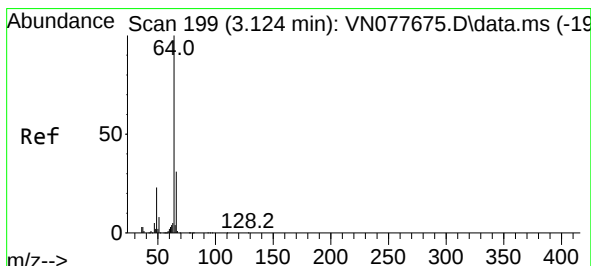
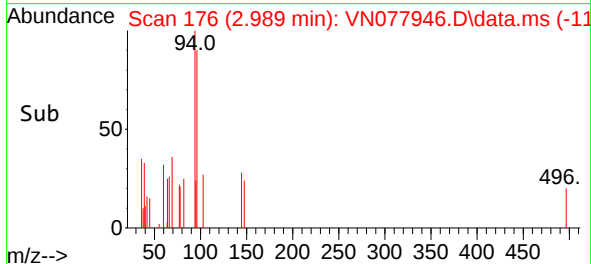
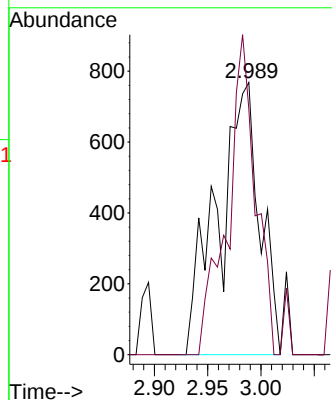
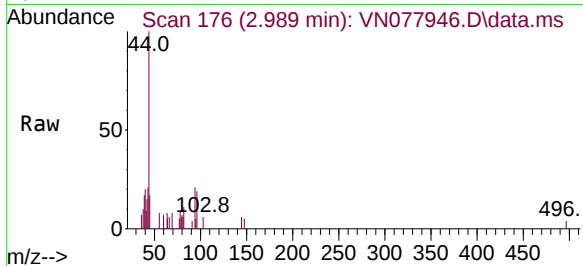




#5
Bromomethane
Concen: 0.514 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.042 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

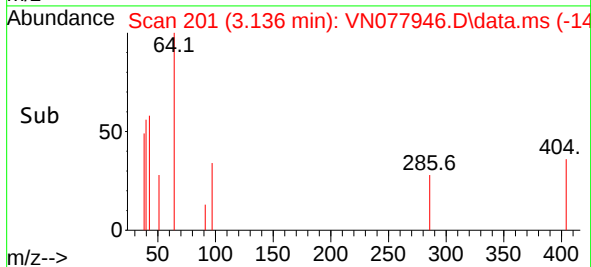
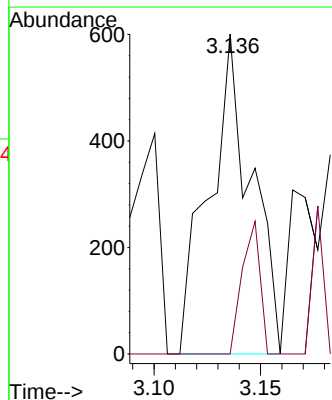
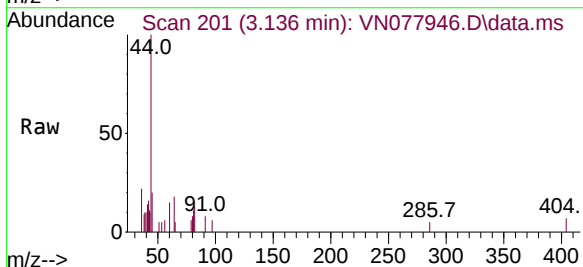
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

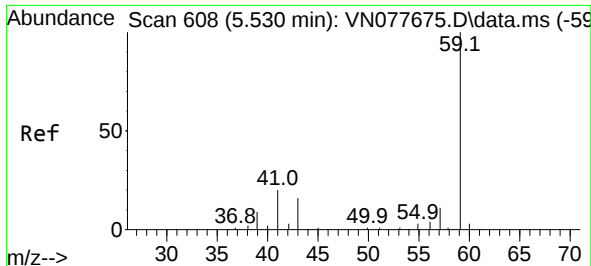
Tgt Ion: 94 Resp: 2102
Ion Ratio Lower Upper
94 100
96 90.2 73.1 109.7



#6
Chloroethane
Concen: 0.208 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 64 Resp: 827
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

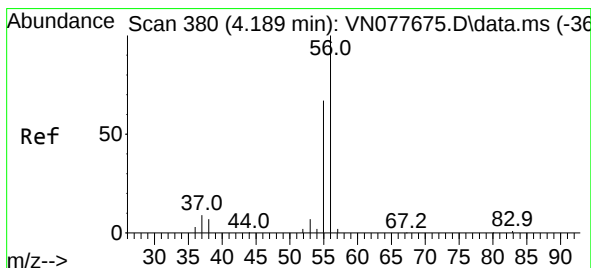
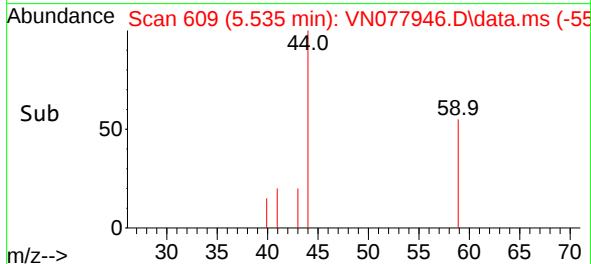
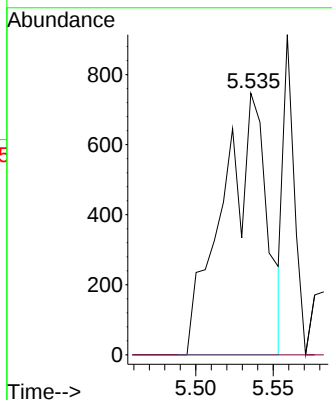
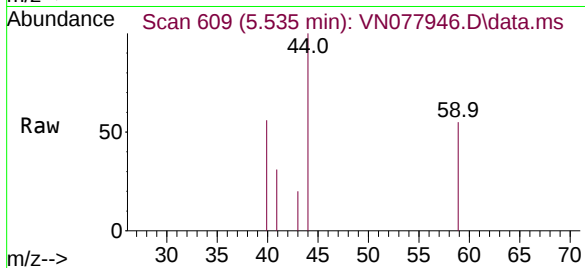




#11
Tert butyl alcohol
Concen: 1.852 ug/l
RT: 5.535 min Scan# 608
Delta R.T. 0.005 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

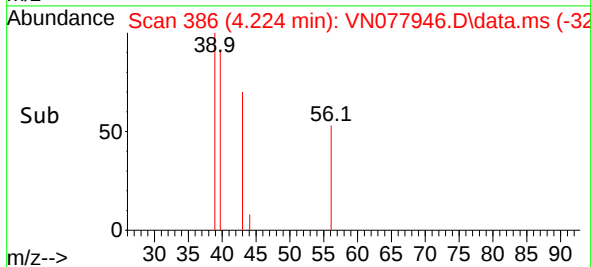
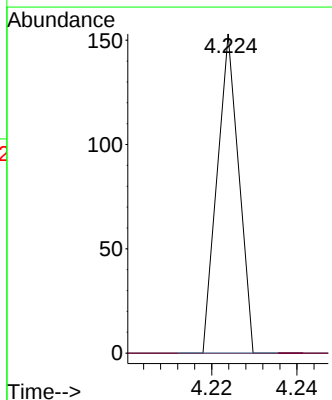
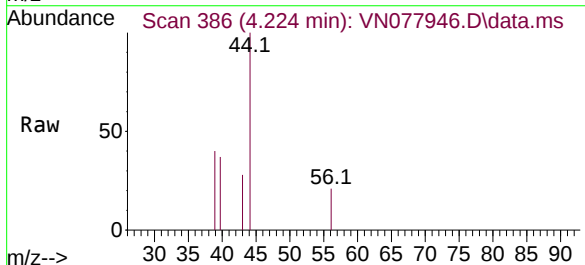
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

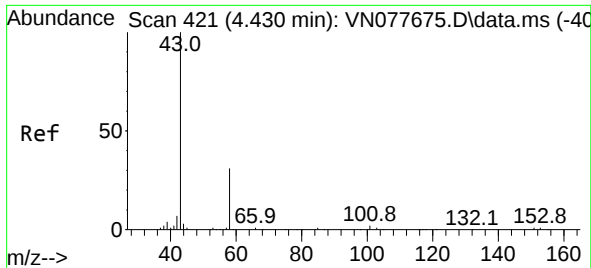
Tgt Ion: 59 Resp: 1473
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 4.224 min Scan# 386
Delta R.T. 0.035 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

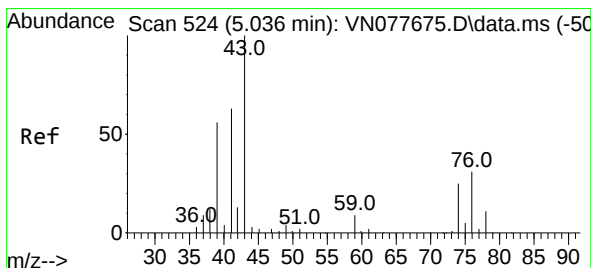
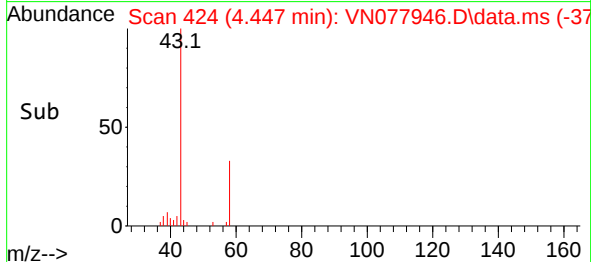
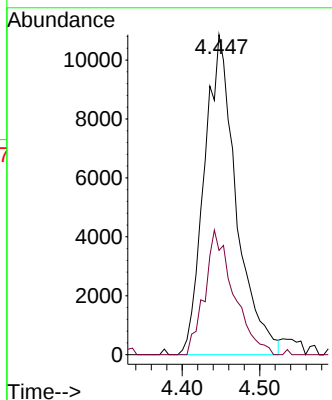
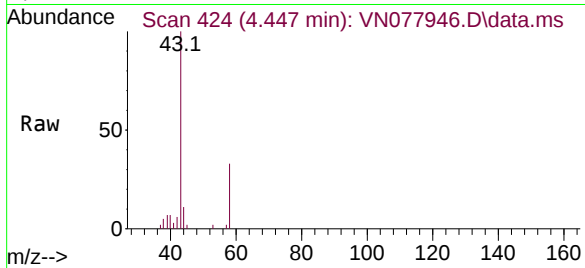




#16
Acetone
Concen: 17.124 ug/l
RT: 4.447 min Scan# 43
Delta R.T. 0.017 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

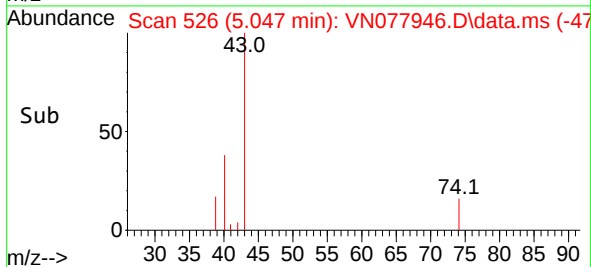
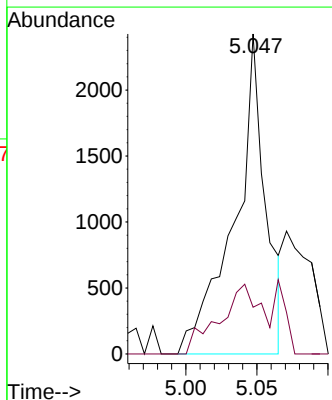
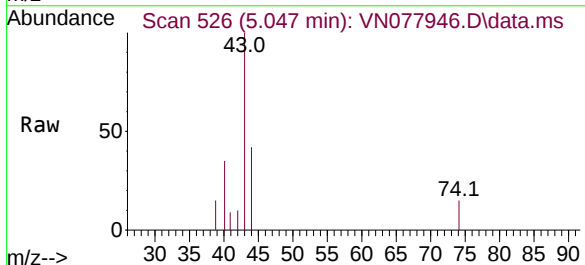
Instrument :
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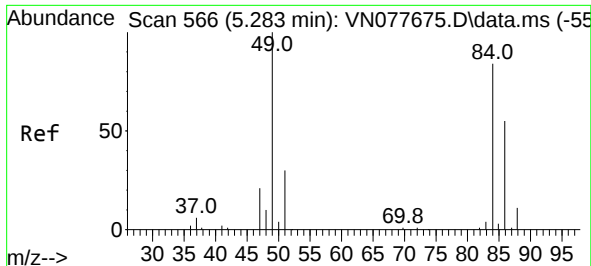
Tgt Ion: 43 Resp: 31051
Ion Ratio Lower Upper
43 100
58 32.6 28.0 42.0



#18
Methyl Acetate
Concen: 0.482 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.011 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 43 Resp: 3668
Ion Ratio Lower Upper
43 100
74 29.2 26.2 39.4

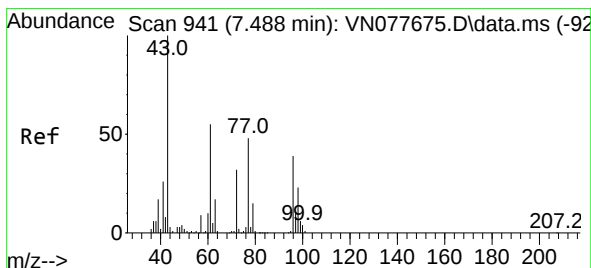
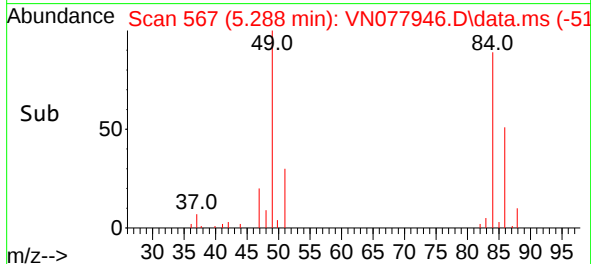
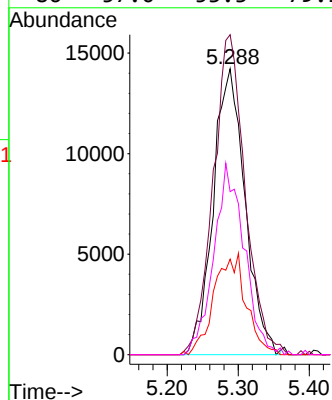
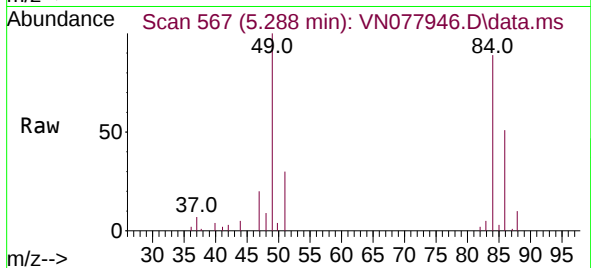




#20
Methylene Chloride
Concen: 7.707 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

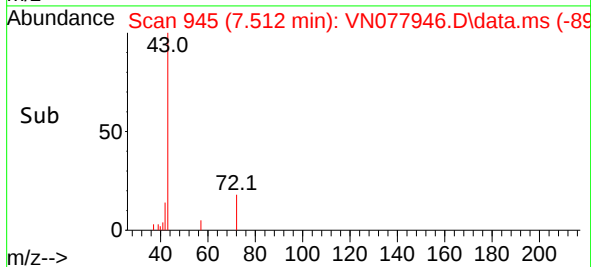
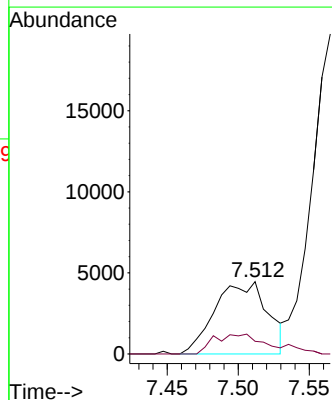
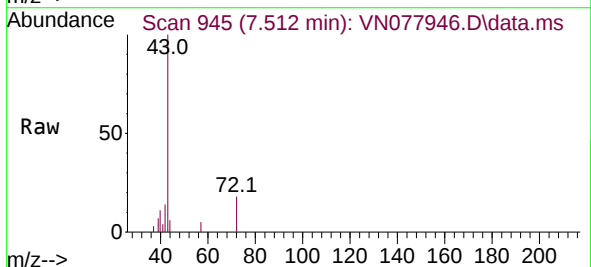
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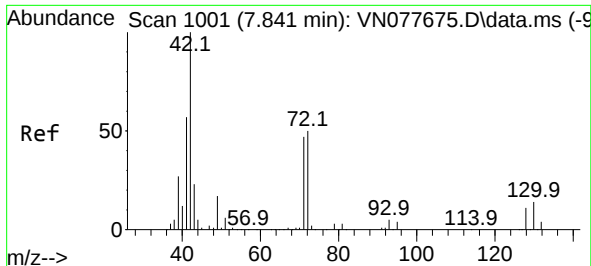
Tgt Ion:	84	Resp:	44261
Ion	Ratio	Lower	Upper
84	100		
49	111.9	79.7	119.5
51	33.4	25.2	37.8
86	57.0	53.3	79.9



#25
2-Butanone
Concen: 4.031 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.024 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion:	43	Resp:	11434
Ion	Ratio	Lower	Upper
43	100		
72	17.6	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.723 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.018 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

Instrument :

MSVOA_N

ClientSampleId :

SU-621-VOC-01

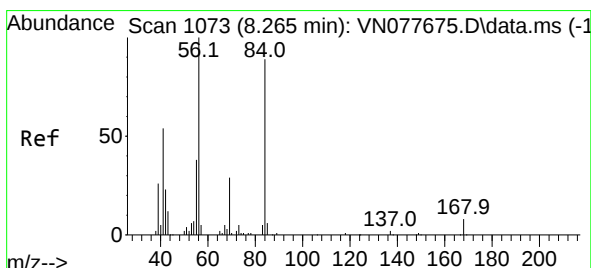
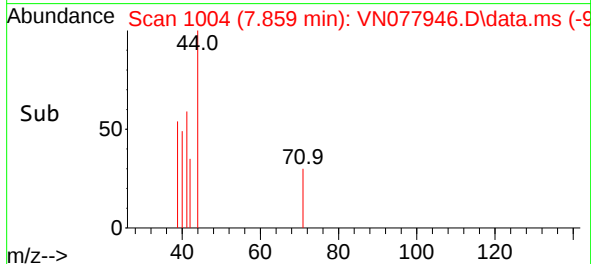
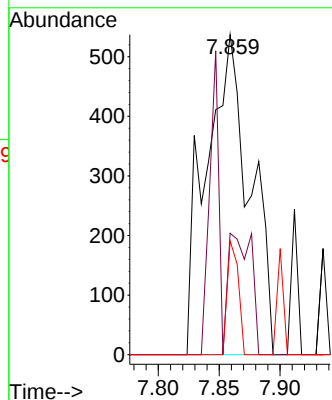
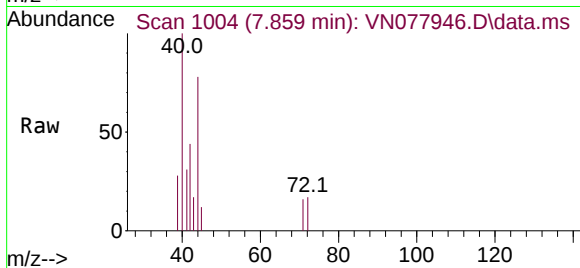
Tgt Ion: 42 Resp: 1342

Ion Ratio Lower Upper

42 100

72 30.2 49.8 74.6#

71 9.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.179 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.036 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

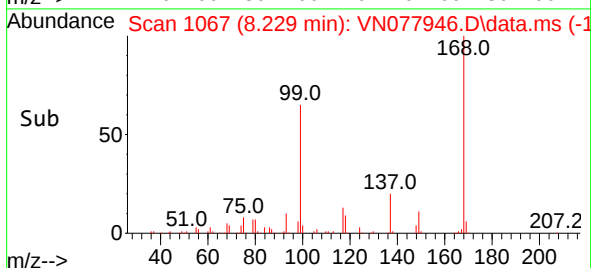
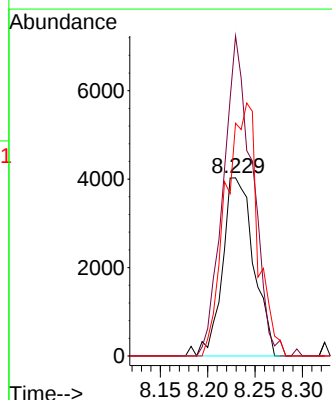
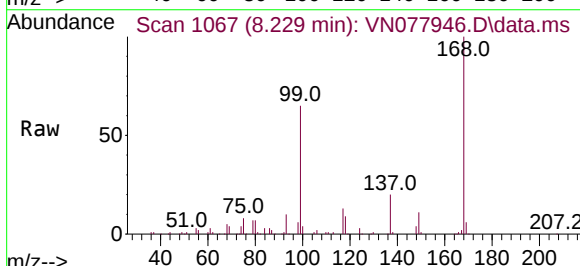
Tgt Ion: 56 Resp: 9232

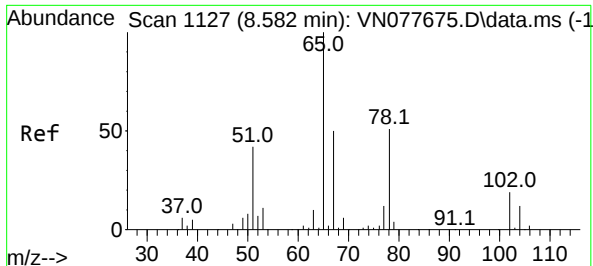
Ion Ratio Lower Upper

56 100

69 179.7 26.8 40.2#

84 130.7 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 46.679 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

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ClientSampleId :

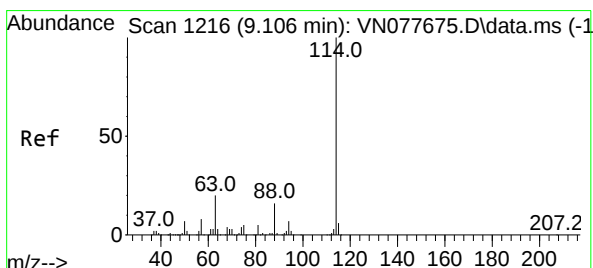
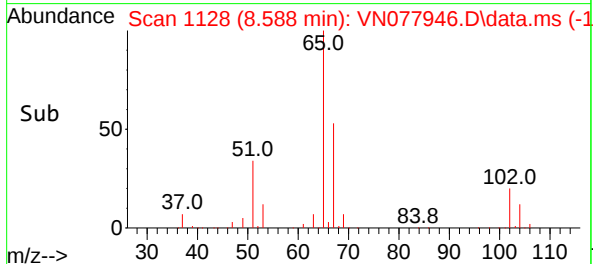
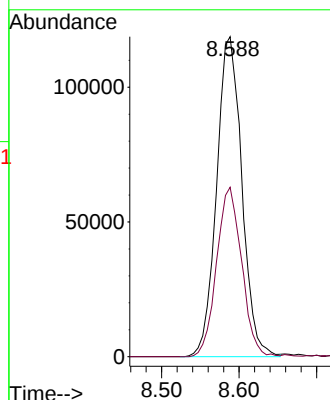
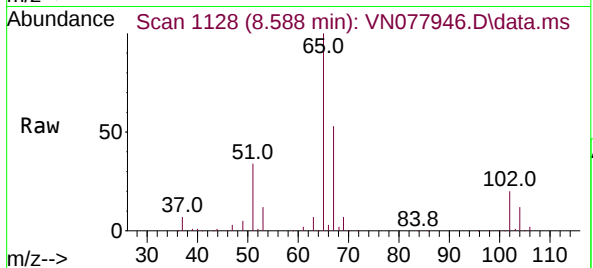
SU-621-VOC-01

Tgt Ion: 65 Resp: 269036

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

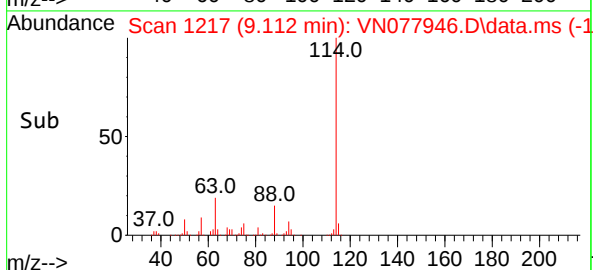
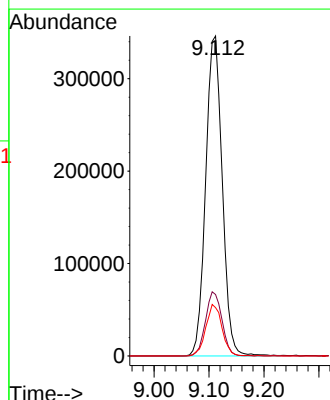
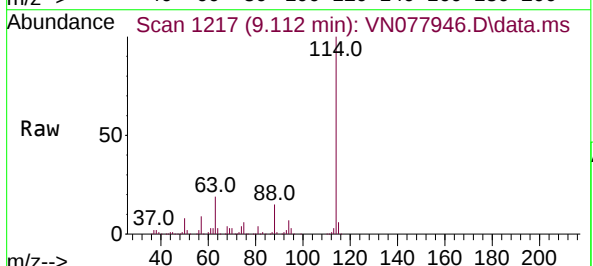
Tgt Ion: 114 Resp: 725364

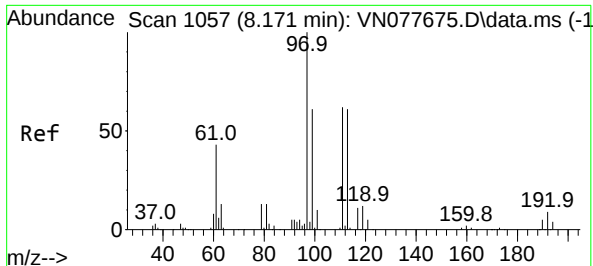
Ion Ratio Lower Upper

114 100

63 19.2 0.0 36.4

88 15.1 0.0 30.6

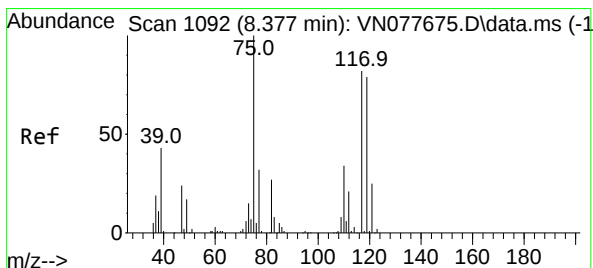
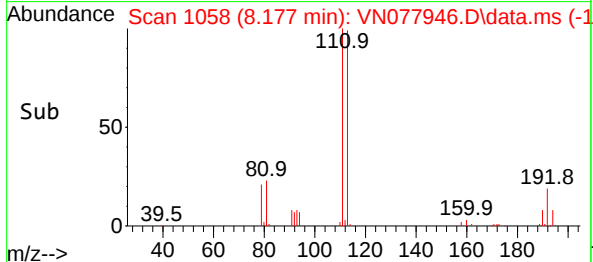
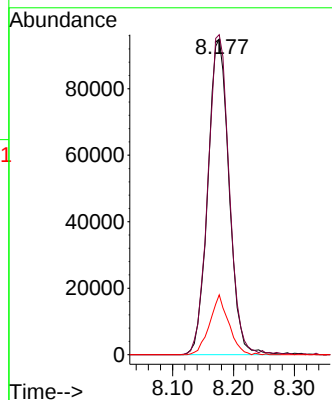
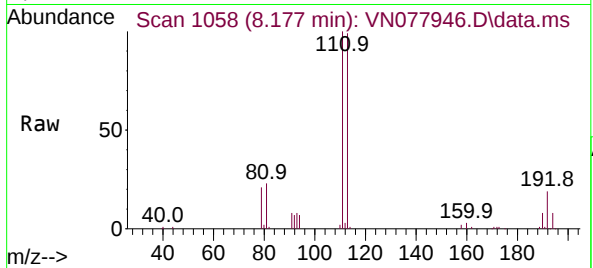




#35
Dibromofluoromethane
Concen: 48.595 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

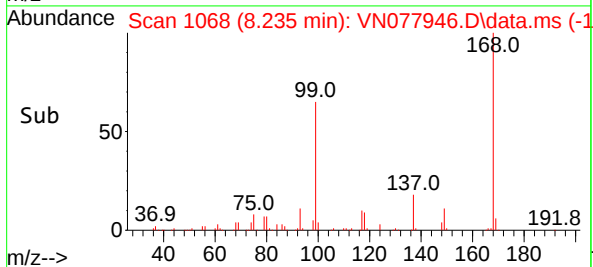
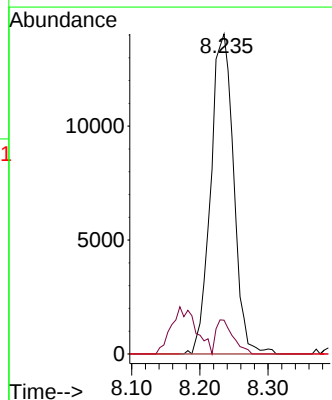
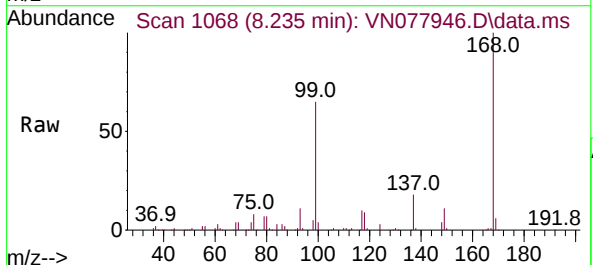
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

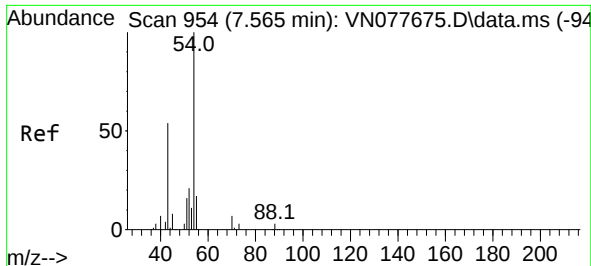
Tgt Ion: 113 Resp: 229857
Ion Ratio Lower Upper
113 100
111 102.4 82.6 123.8
192 17.0 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.751 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 75 Resp: 32871
Ion Ratio Lower Upper
75 100
110 7.9 19.1 57.3#
77 0.0 25.0 37.4#

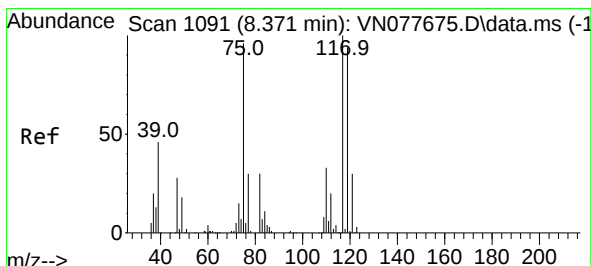
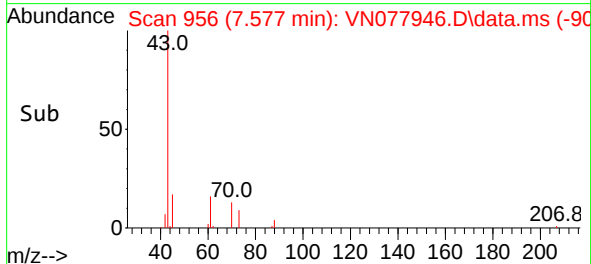
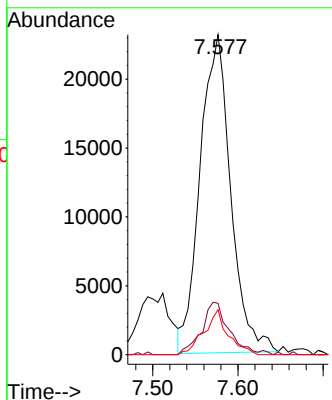
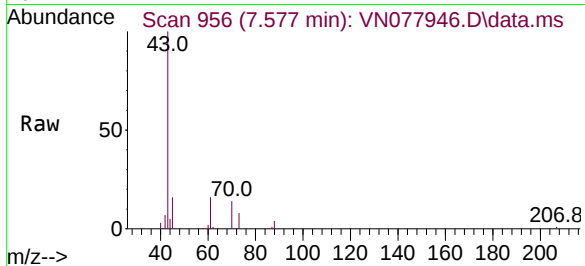




#37
Ethyl Acetate
Concen: 9.345 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

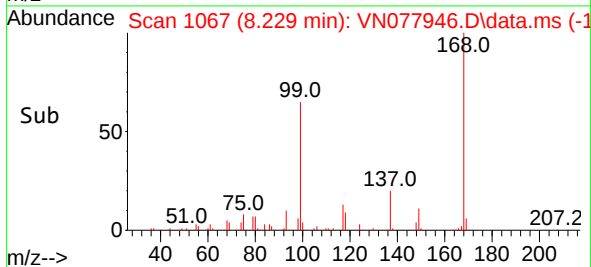
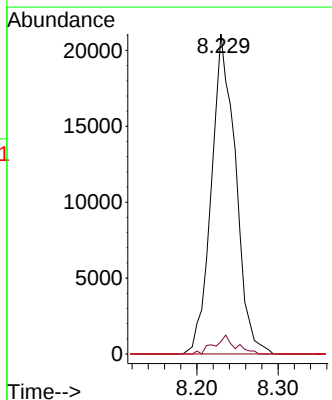
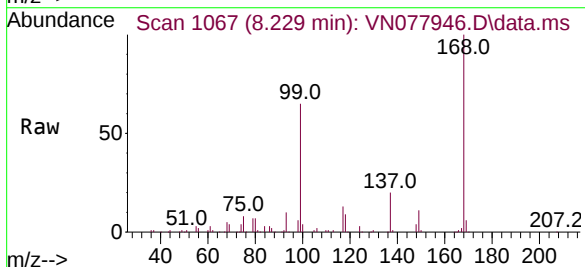
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

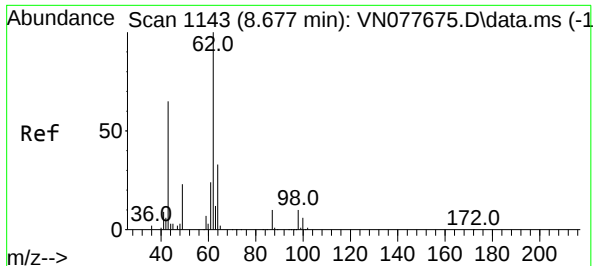
Tgt Ion: 43 Resp: 57628
Ion Ratio Lower Upper
43 100
61 15.1 13.2 19.8
70 11.1 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 6.261 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.142 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 117 Resp: 43739
Ion Ratio Lower Upper
117 100
119 3.8 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.314 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

Instrument :

MSVOA_N

ClientSampleId :

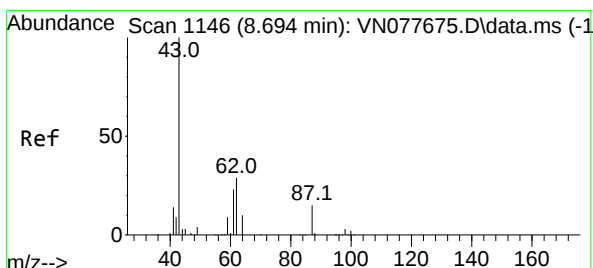
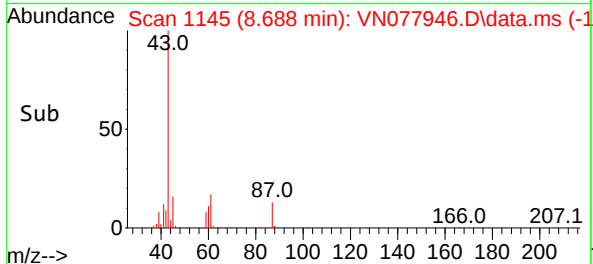
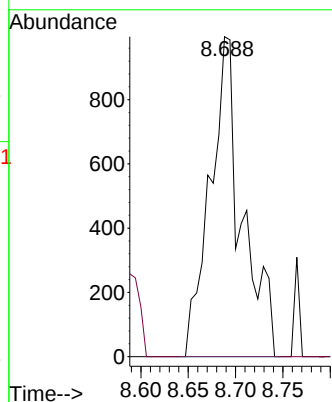
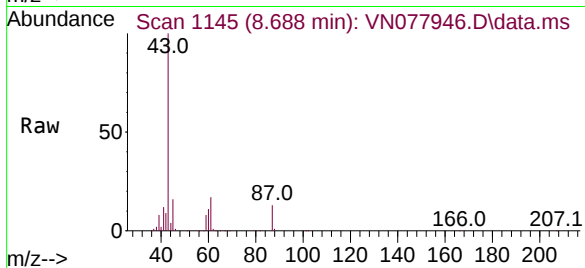
SU-621-VOC-01

Tgt Ion: 62 Resp: 2328

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 34.325 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

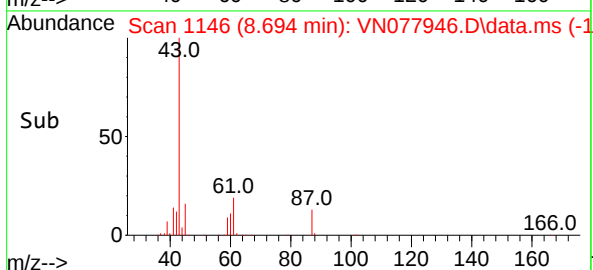
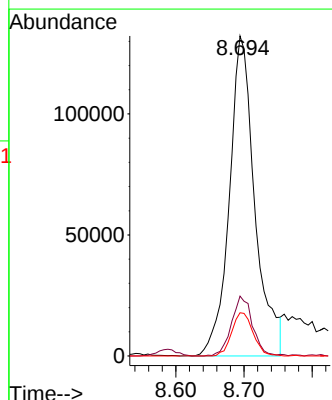
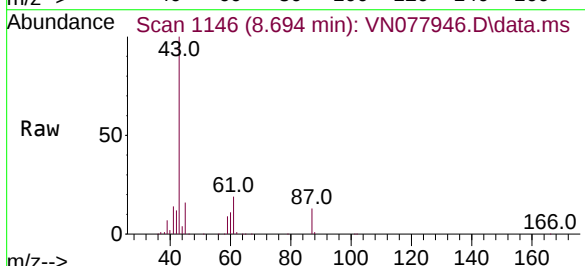
Tgt Ion: 43 Resp: 345724

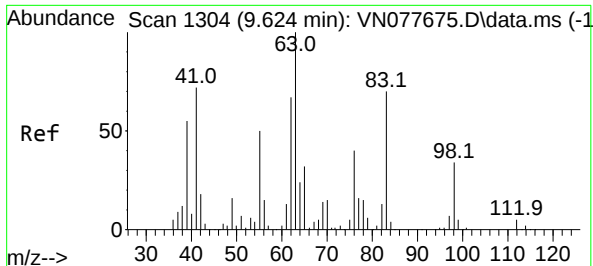
Ion Ratio Lower Upper

43 100

61 15.4 24.7 37.1#

87 11.3 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.566 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

Instrument :

MSVOA_N

ClientSampleId :

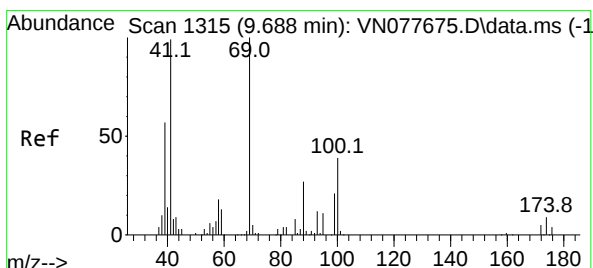
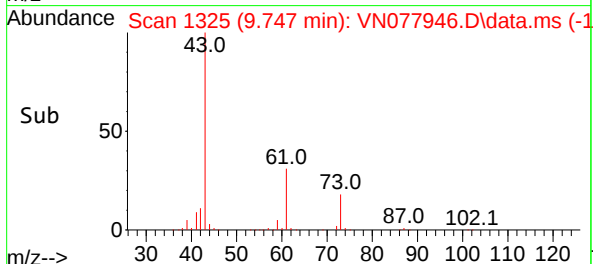
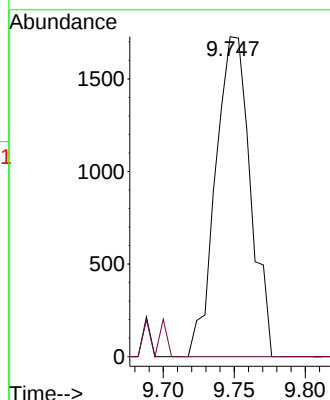
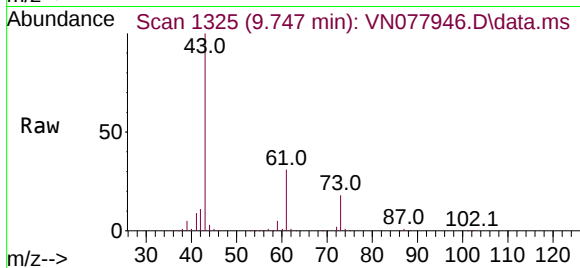
SU-621-VOC-01

Tgt Ion: 63 Resp: 2948

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 40.049 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

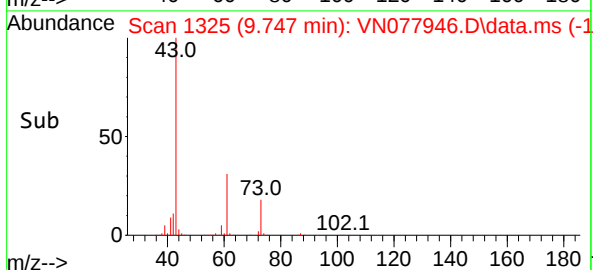
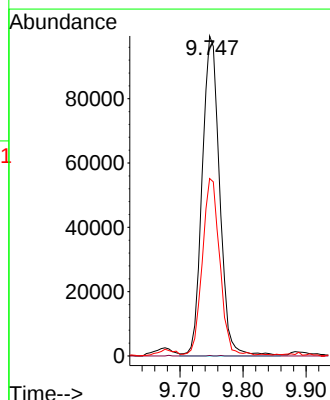
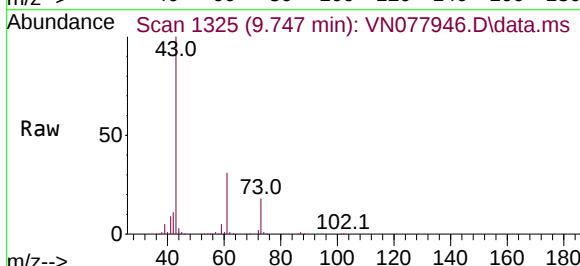
Tgt Ion: 41 Resp: 191252

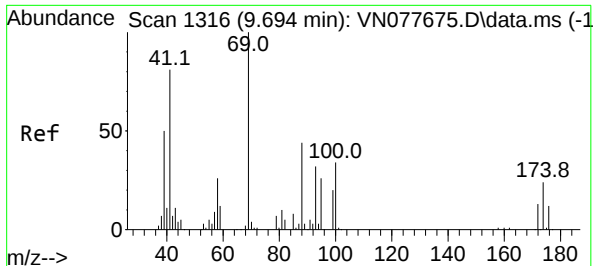
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 54.5 54.6 81.8#





#49

1,4-Dioxane

Concen: 3.049 ug/l

RT: 9.753 min Scan# 1326

Delta R.T. 0.059 min

Lab File: VN077946.D

Acq: 27 May 2023 00:51

Instrument :

MSVOA_N

ClientSampleId :

SU-621-VOC-01

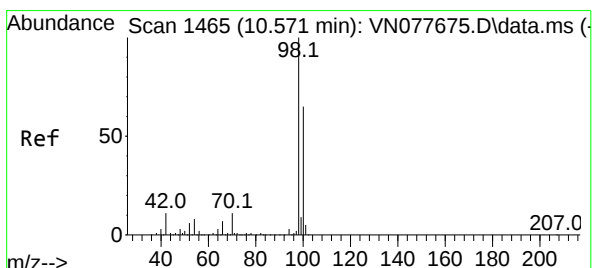
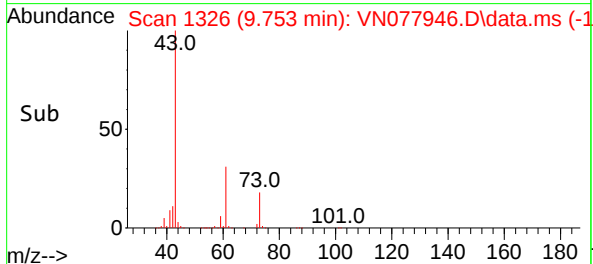
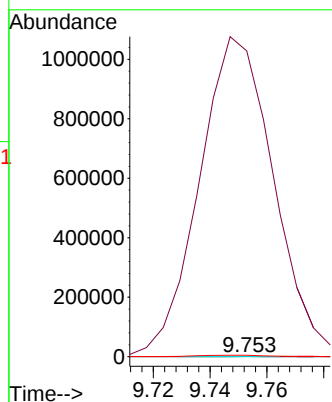
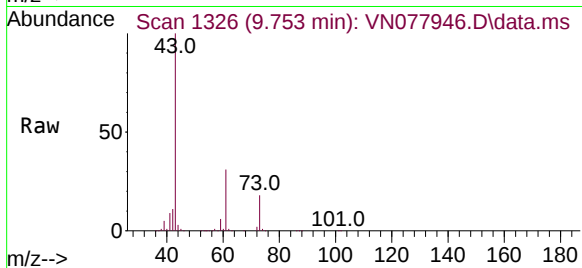
Tgt Ion: 88 Resp: 275

Ion Ratio Lower Upper

88 100

43 722360.0 17.0 25.6#

58 3274.9 47.0 70.4#



#50

Toluene-d8

Concen: 50.264 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.001 min

Lab File: VN077946.D

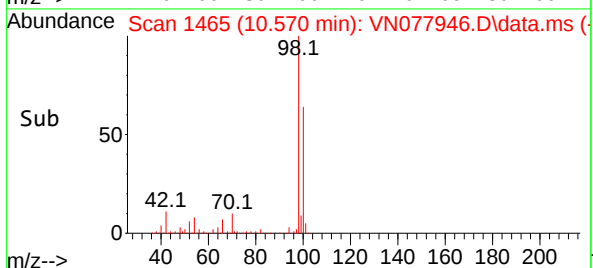
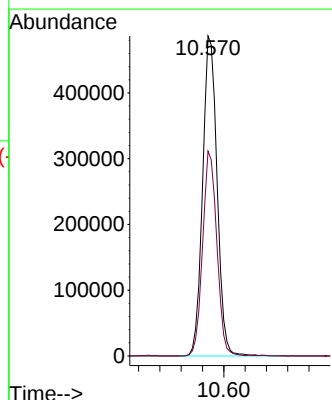
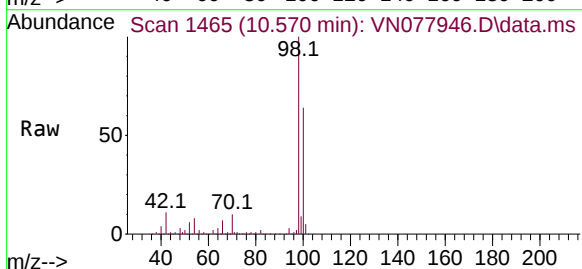
Acq: 27 May 2023 00:51

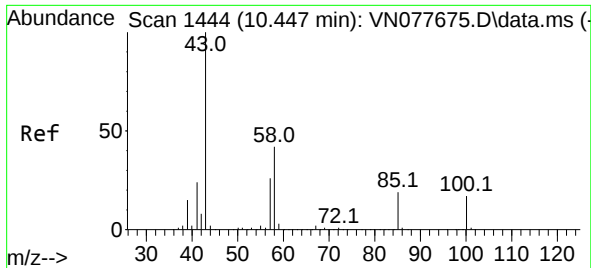
Tgt Ion: 98 Resp: 915124

Ion Ratio Lower Upper

98 100

100 62.9 52.0 78.0

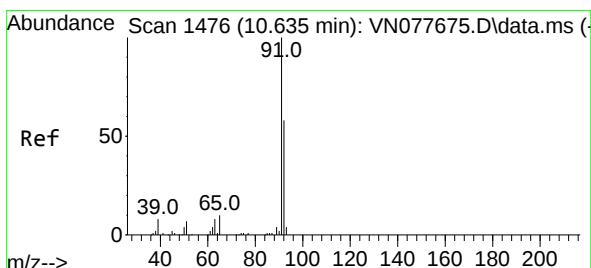
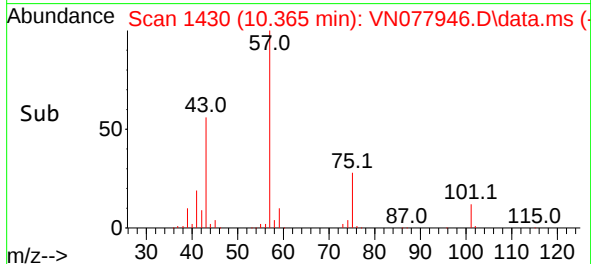
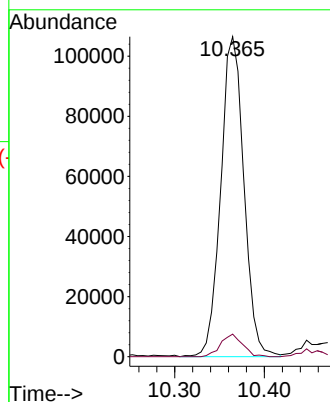
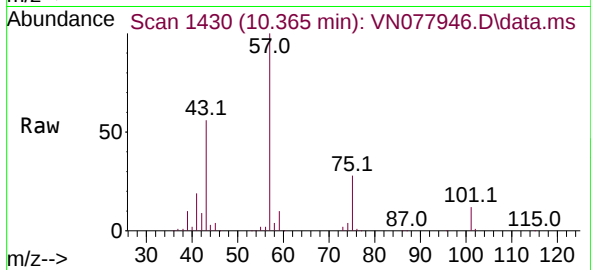




#51
4-Methyl-2-Pentanone
Concen: 31.888 ug/l
RT: 10.365 min Scan# 1444
Delta R.T. -0.082 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

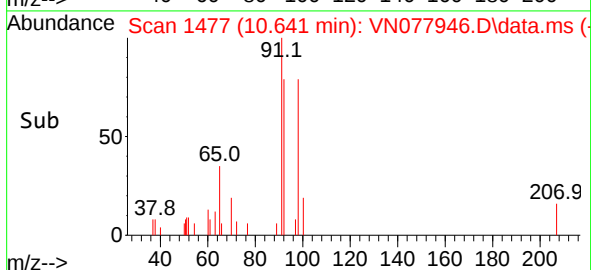
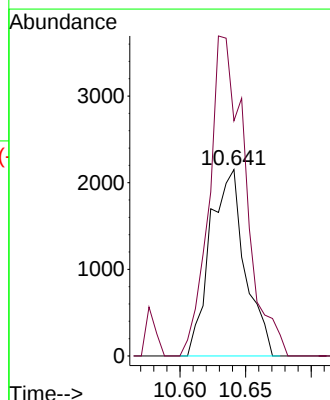
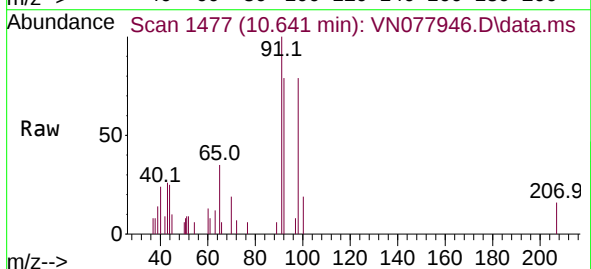
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

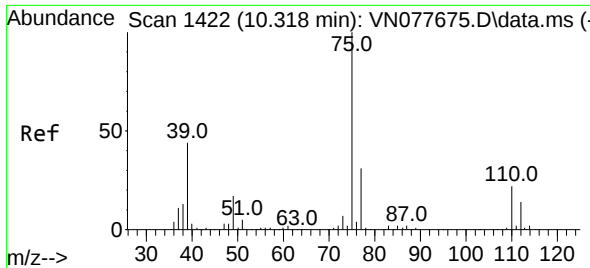
Tgt Ion: 43 Resp: 190915
Ion Ratio Lower Upper
43 100
58 6.7 36.6 54.8#



#52
Toluene
Concen: 0.313 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 92 Resp: 3977
Ion Ratio Lower Upper
92 100
91 178.3 137.4 206.0

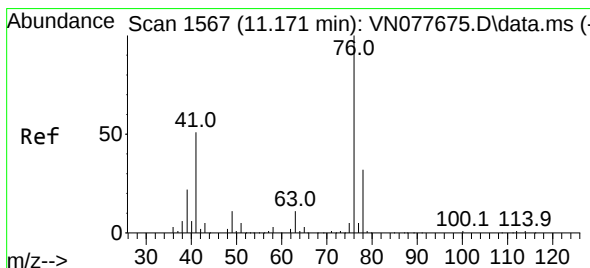
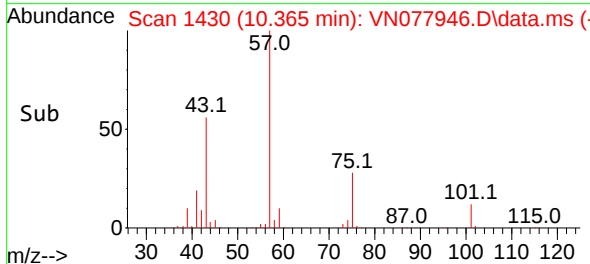
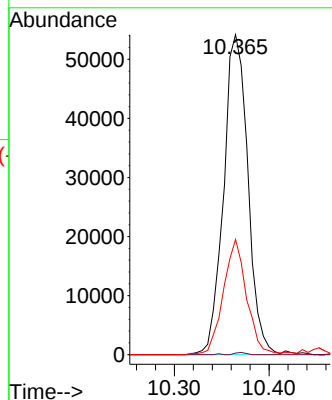
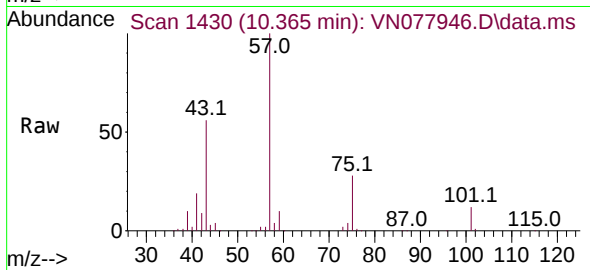




#54
 cis-1,3-Dichloropropene
 Concen: 11.572 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN077946.D
 Acq: 27 May 2023 00:51

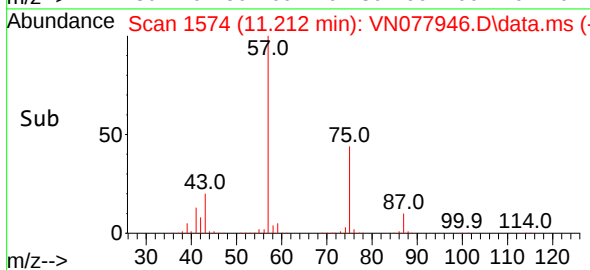
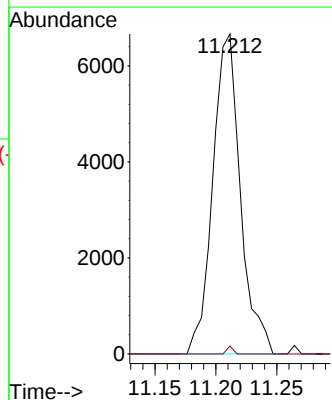
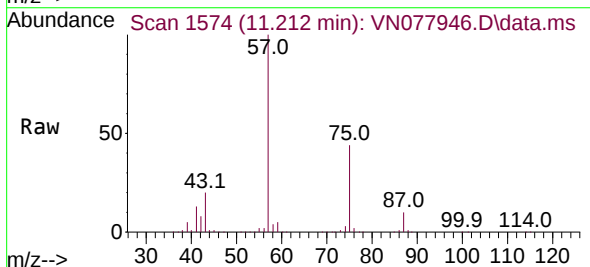
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-621-VOC-01

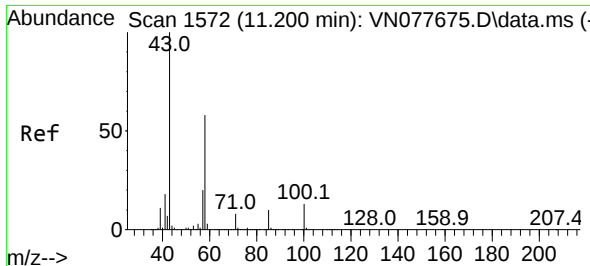
Tgt Ion: 75 Resp: 96342
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 36.0 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.217 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.041 min
 Lab File: VN077946.D
 Acq: 27 May 2023 00:51

Tgt Ion: 76 Resp: 10525
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.1 39.1#

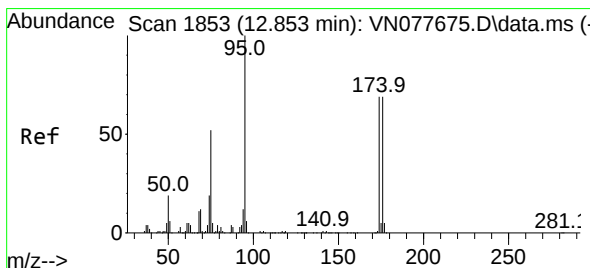
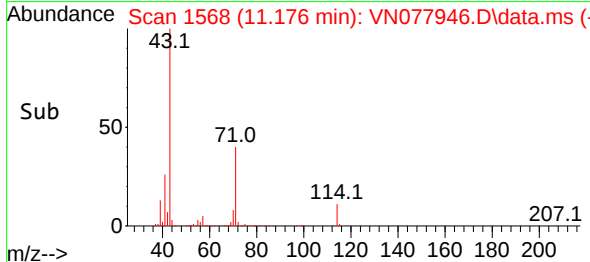
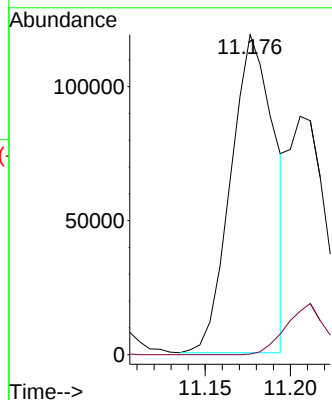
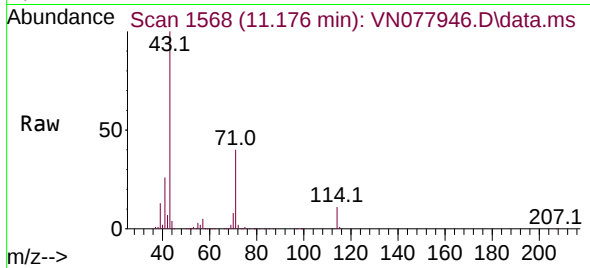




#59
2-Hexanone
Concen: 47.535 ug/l
RT: 11.176 min Scan# 1117
Delta R.T. -0.024 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

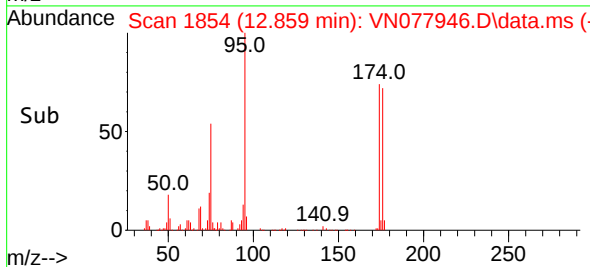
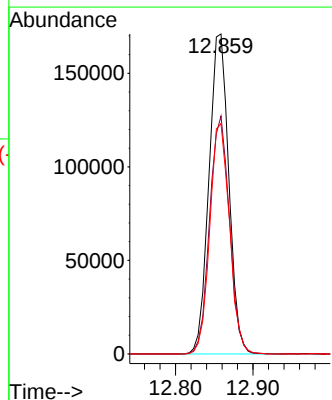
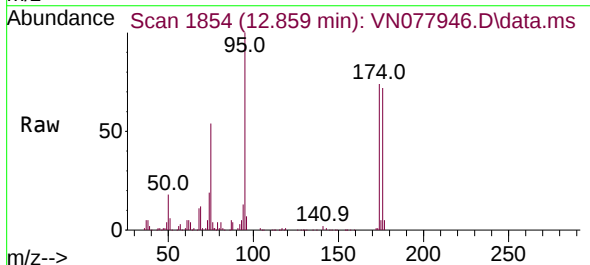
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

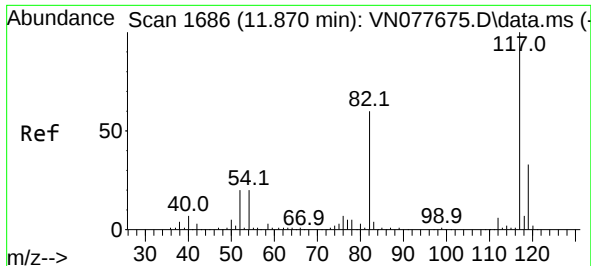
Tgt Ion: 43 Resp: 210503
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.248 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 95 Resp: 303805
Ion Ratio Lower Upper
95 100
174 74.3 0.0 143.8
176 71.4 0.0 135.8

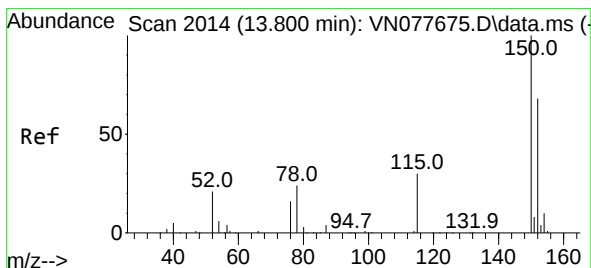
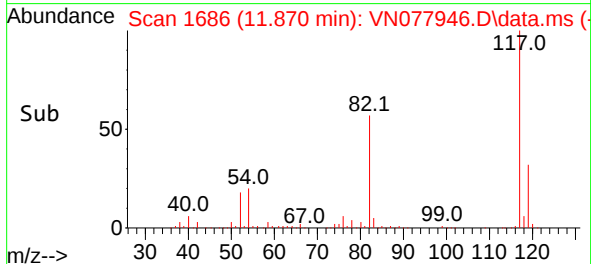
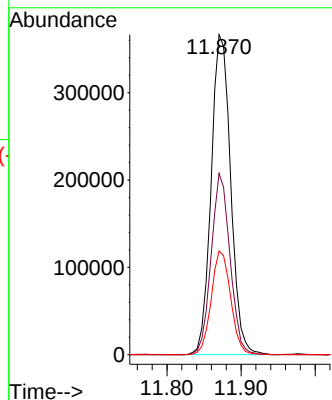
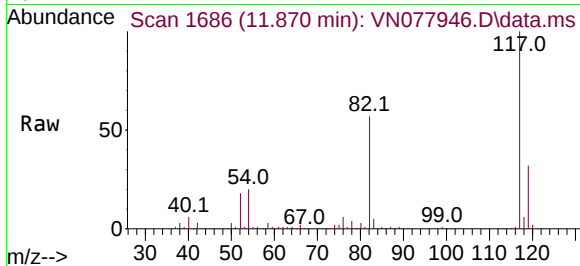




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

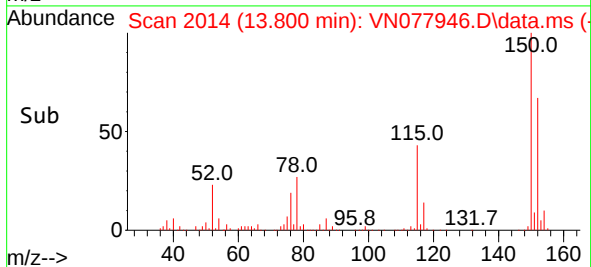
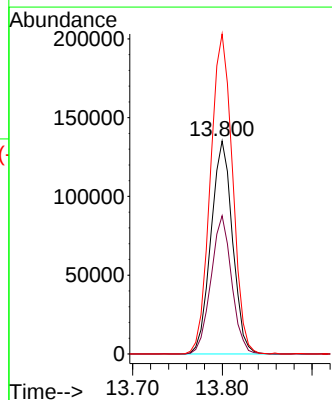
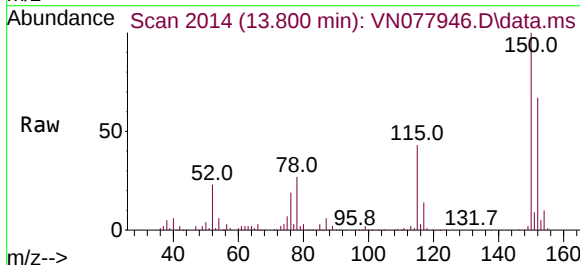
Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

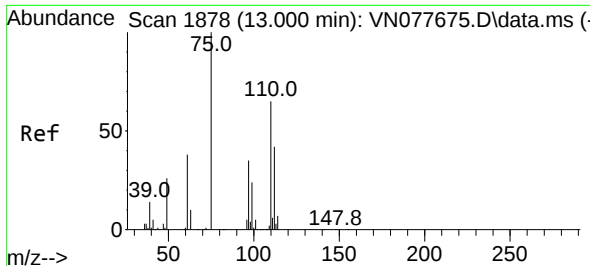
Tgt Ion:117 Resp: 670958
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 32.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion:152 Resp: 225372
Ion Ratio Lower Upper
152 100
115 62.3 32.3 96.8
150 153.9 0.0 355.8

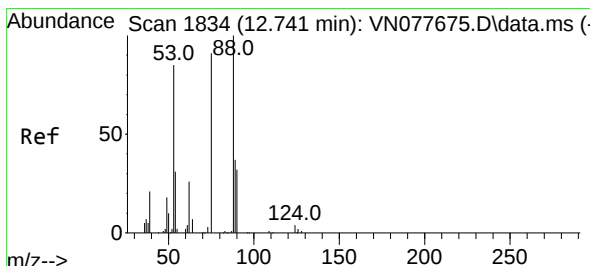
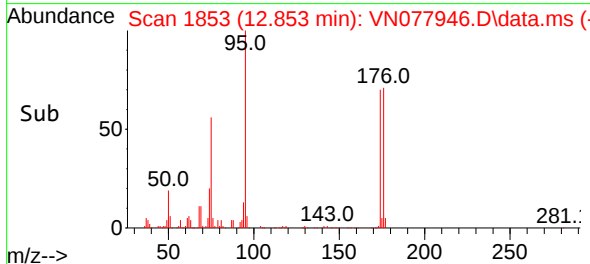
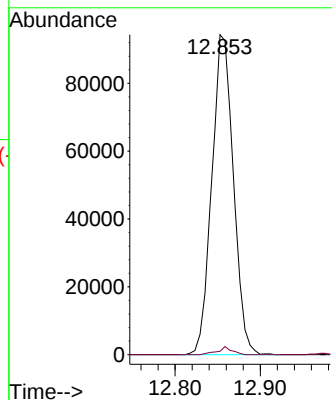
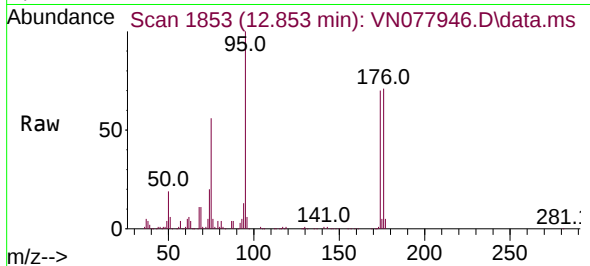




#76
1,2,3-Trichloropropane
Concen: 29.481 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Instrument :
MSVOA_N
ClientSampleId :
SU-621-VOC-01

Tgt Ion: 75 Resp: 166394
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.236 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077946.D
Acq: 27 May 2023 00:51

Tgt Ion: 75 Resp: 166394
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

