

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031523\
 Data File : VW030211.D
 Acq On : 15 Mar 2023 15:00
 Operator : SY/MD
 Sample : 01884-14
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 16 01:52:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Mar 16 01:47:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	167386	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	165634	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	103078	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	46728	4.314	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.200%
7) Chloroethane-d5	1.539	69	42289	4.160	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.200%
11) 1,1-Dichloroethene-d2	2.063	63	70492	3.166	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.400%
20) 2-Butanone-d5	3.838	46	73250	36.683	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	73.360%
24) Chloroform-d	4.262	84	93135	4.210	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
26) 1,2-Dichloroethane-d4	4.956	65	40564	4.491	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
32) Benzene-d6	4.973	84	169532	3.804	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.000%
36) 1,2-Dichloropropane-d6	5.998	67	55013	4.103	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.000%
41) Toluene-d8	7.252	98	153608	3.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.800%
43) trans-1,3-Dichloroprop...	7.564	79	18863	4.112	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.200%
46) 2-Hexanone-d5	8.037	63	69650	36.700	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	73.400%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	42603	4.466	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.400%
66) 1,2-Dichlorobenzene-d4	11.570	152	72291	4.145	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.220	50	3824	0.178	ug/L	100
5) Vinyl chloride	1.288	62	2149	0.151	ug/L #	45
6) Bromomethane	1.494	94	312	0.122	ug/L	99
13) Acetone	1.912	43	15767	10.683	ug/L	76
14) Carbon disulfide	2.249	76	3321	0.110	ug/L #	93
22) cis-1,2-Dichloroethene	3.831	96	1451	0.123	ug/L	87
30) Cyclohexane	4.593	56	2870	0.171	ug/L	95
33) Benzene	5.021	78	7112	0.157	ug/L	100
35) Methylcyclohexane	6.053	83	3519	0.183	ug/L	91
37) 1,2-Dichloropropane	5.995	63	5670	0.493	ug/L #	86
39) cis-1,3-Dichloropropene	6.924	75	1313	0.078	ug/L #	49
42) Toluene	7.329	91	12493	0.255	ug/L	98
45) 1,1,2-Trichloroethane	7.728	97	1131	0.137	ug/L #	16
51) Chlorobenzene	8.821	112	449723	13.611	ug/L	99
53) m,p-Xylene	9.085	106	2734	0.133	ug/L	100
54) o-Xylene	9.490	106	2349	0.120	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.185	83	1502	0.163	ug/L #	55
60) Isopropylbenzene	9.876	105	54109	0.912	ug/L	98
61) 1,2,3-Trichloropropane	11.217	75	26184	3.795	ug/L #	46

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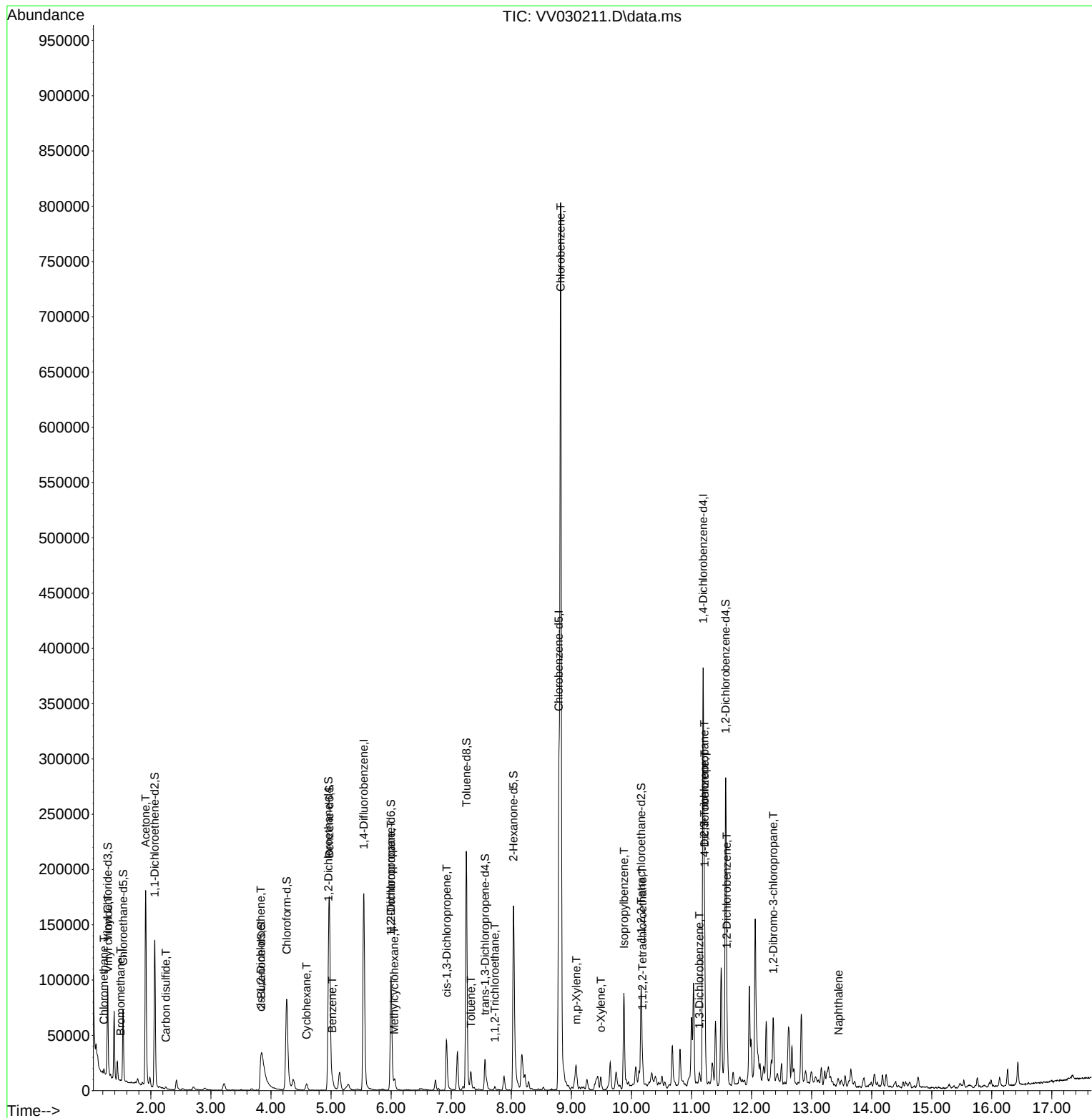
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.133	146	2082	0.067	ug/L	92
65) 1,4-Dichlorobenzene	11.220	146	58390	1.874	ug/L	97
67) 1,2-Dichlorobenzene	11.590	146	5684	0.208	ug/L	94
68) 1,2-Dibromo-3-chloropr...	12.361	75	352	0.228	ug/L #	1
71) Naphthalene	13.451	128	3539	0.132	ug/L	97

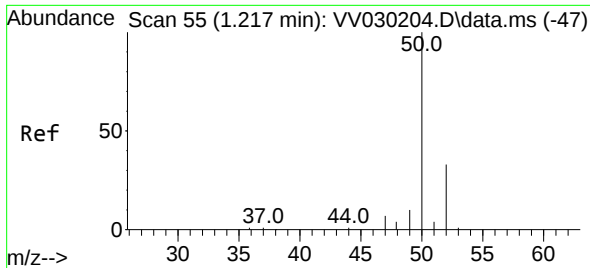
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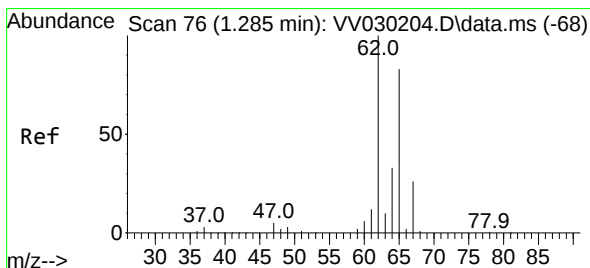
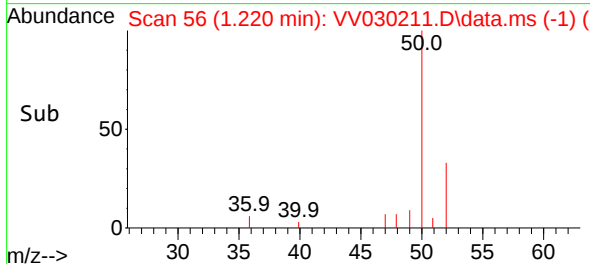
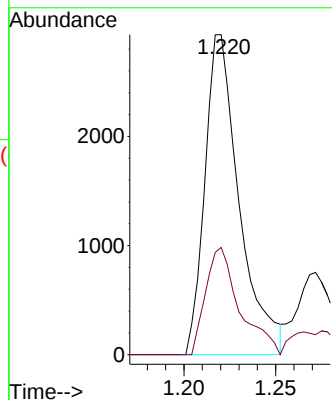
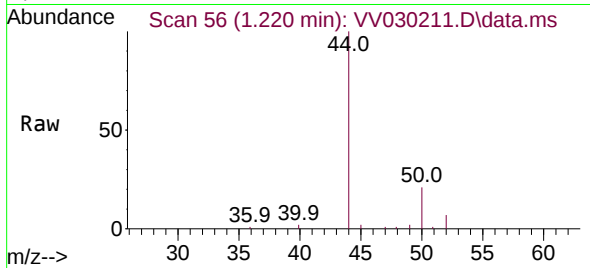




#3
Chloromethane
Concen: 0.178 ug/L
RT: 1.220 min Scan# 50
Delta R.T. 0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

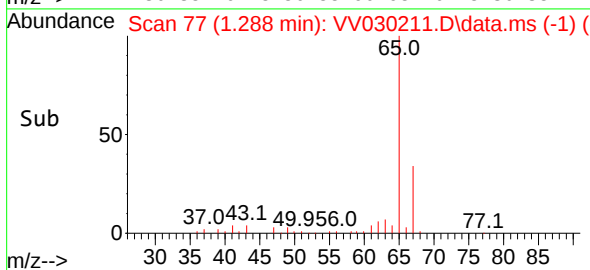
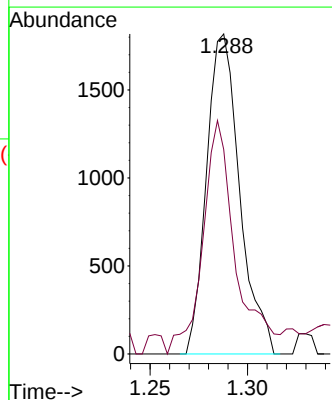
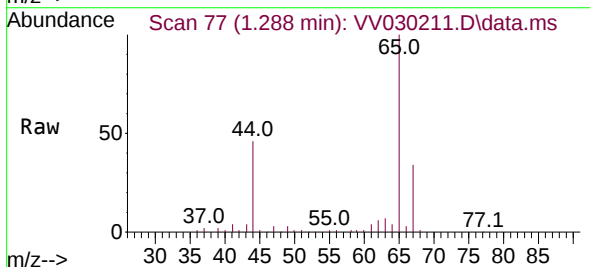
Instrument :
MSVOA_V
ClientSampleId :

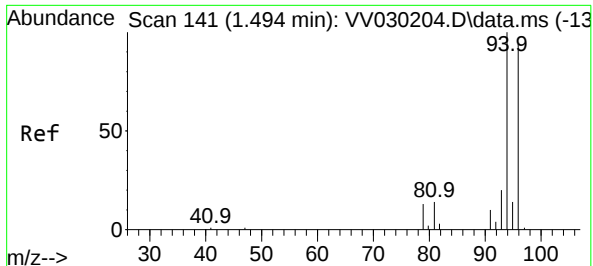
Tgt Ion: 50 Resp: 3824
Ion Ratio Lower Upper
50 100
52 33.5 23.6 43.8



#5
Vinyl chloride
Concen: 0.151 ug/L
RT: 1.288 min Scan# 77
Delta R.T. 0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion: 62 Resp: 2149
Ion Ratio Lower Upper
62 100
64 63.9 23.1 42.9#

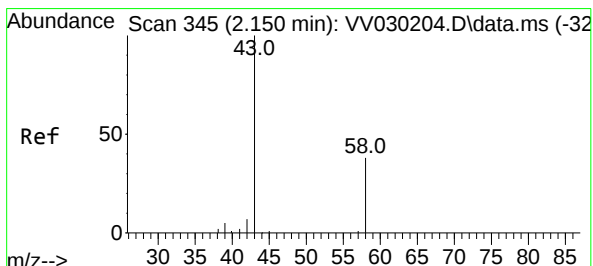
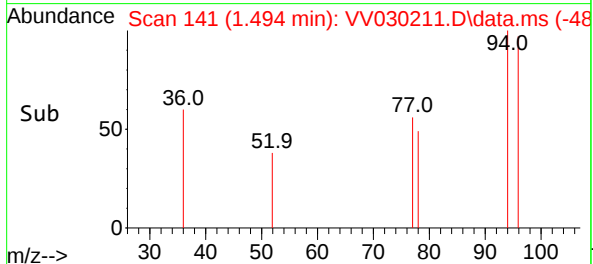
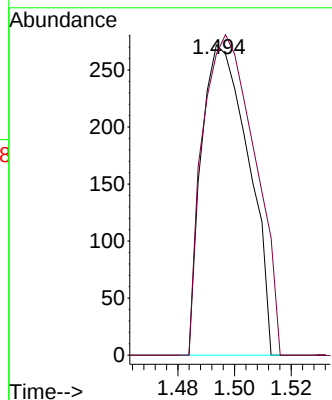
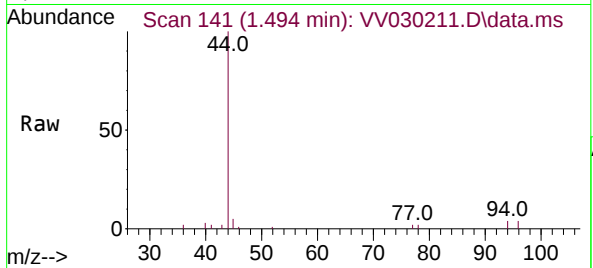




#6
Bromomethane
Concen: 0.122 ug/L
RT: 1.494 min Scan# 141
Delta R.T. -0.000 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

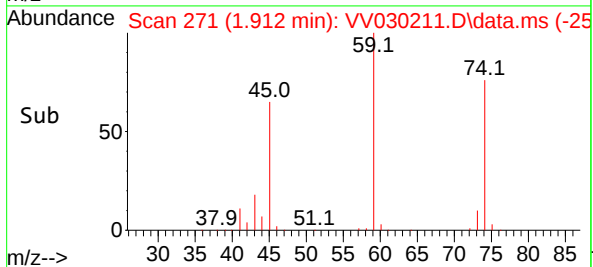
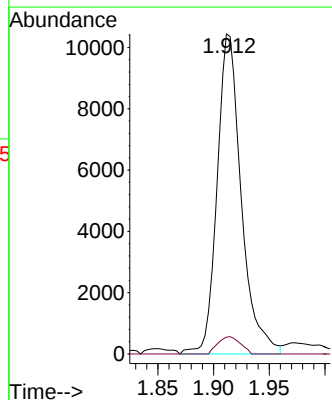
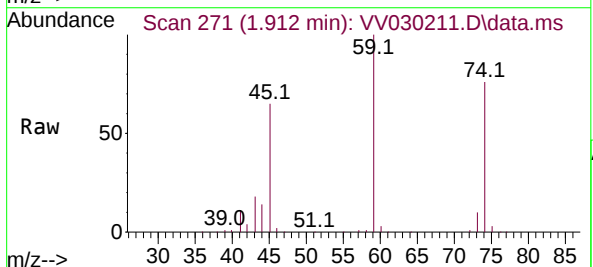
Instrument :
MSVOA_V
ClientSampleId :

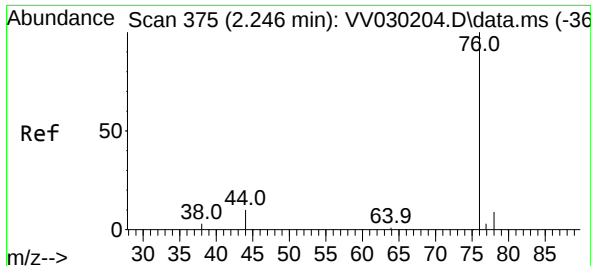
Tgt Ion: 94 Resp: 312
Ion Ratio Lower Upper
94 100
96 97.1 68.4 127.0



#13
Acetone
Concen: 10.683 ug/L
RT: 1.912 min Scan# 271
Delta R.T. -0.238 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion: 43 Resp: 15767
Ion Ratio Lower Upper
43 100
58 5.0 0.0 29.4





#14

Carbon disulfide

Concen: 0.110 ug/L

RT: 2.249 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030211.D

Acq: 15 Mar 2023 15:00

Instrument :

MSVOA_V

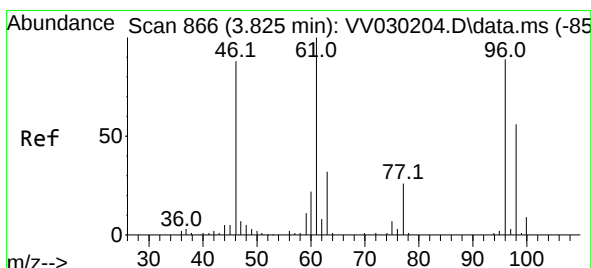
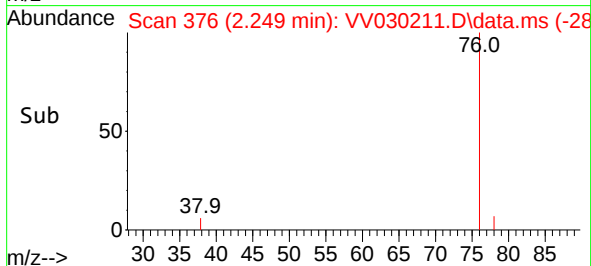
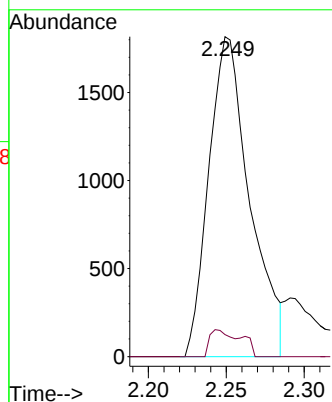
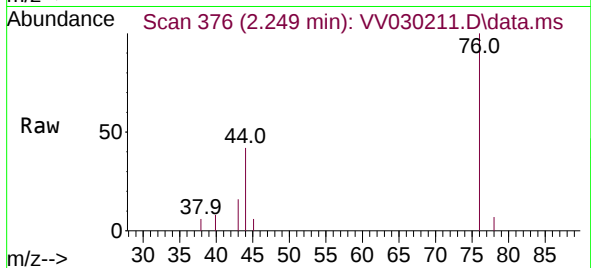
ClientSampleId :

Tgt Ion: 76 Resp: 3321

Ion Ratio Lower Upper

76 100

78 6.9 7.7 11.5#



#22

cis-1,2-Dichloroethene

Concen: 0.123 ug/L

RT: 3.831 min Scan# 868

Delta R.T. 0.006 min

Lab File: VV030211.D

Acq: 15 Mar 2023 15:00

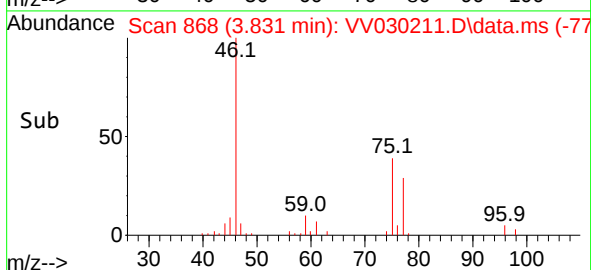
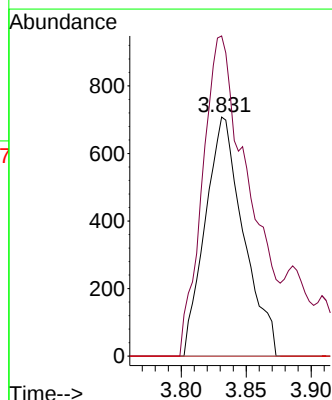
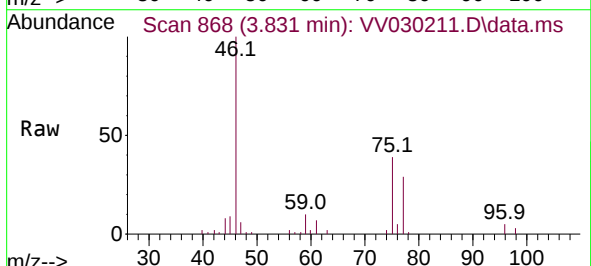
Tgt Ion: 96 Resp: 1451

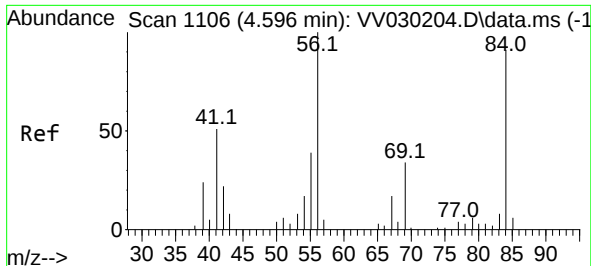
Ion Ratio Lower Upper

96 100

61 133.9 83.4 154.8

68 0.0 0.0 0.0

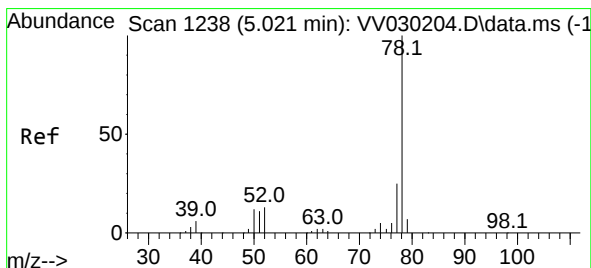
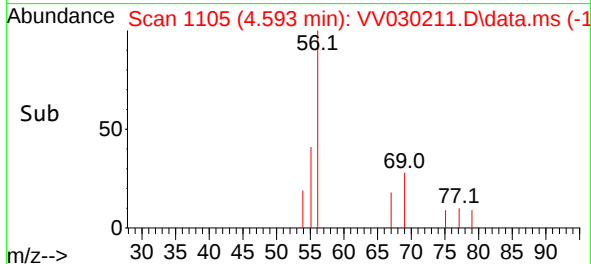
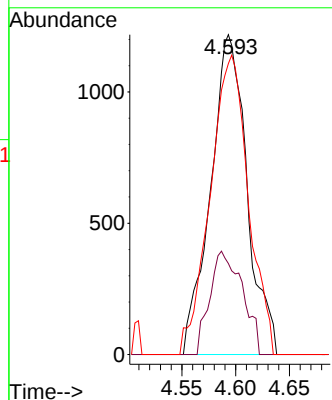
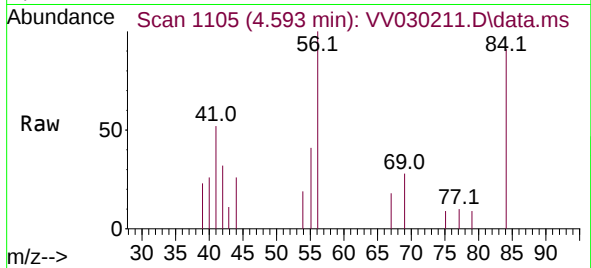




#30
Cyclohexane
Concen: 0.171 ug/L
RT: 4.593 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

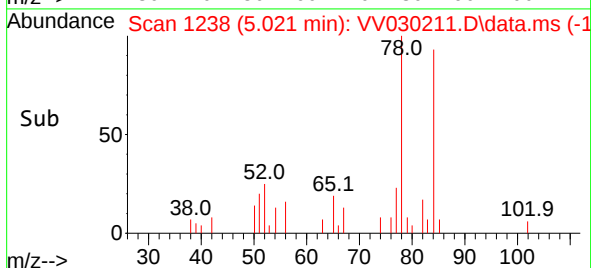
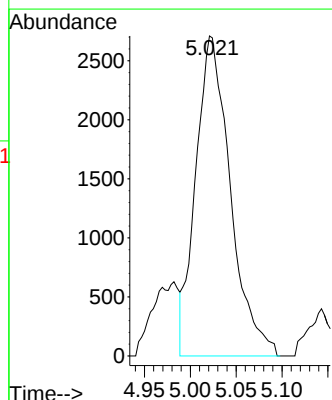
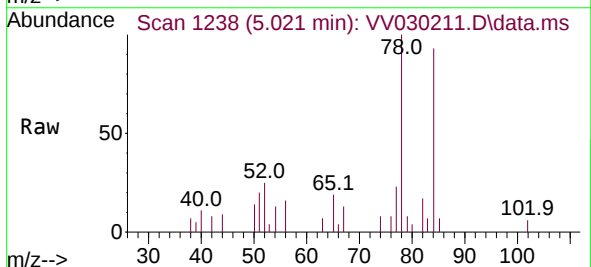
Instrument :
MSVOA_V
ClientSampleId :

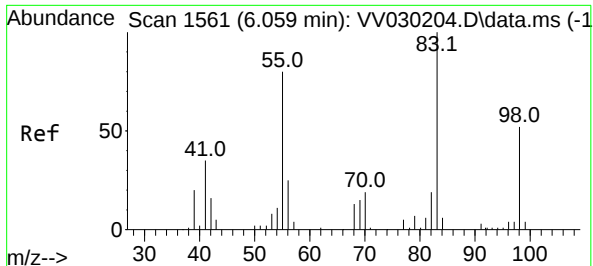
Tgt Ion: 56 Resp: 2870
Ion Ratio Lower Upper
56 100
69 28.9 25.1 37.7
84 97.8 74.6 111.8



#33
Benzene
Concen: 0.157 ug/L
RT: 5.021 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion: 78 Resp: 7112





#35

Methylcyclohexane

Concen: 0.183 ug/L

RT: 6.053 min Scan# 1559

Delta R.T. -0.007 min

Lab File: VV030211.D

Acq: 15 Mar 2023 15:00

Instrument :

MSVOA_V

ClientSampleId :

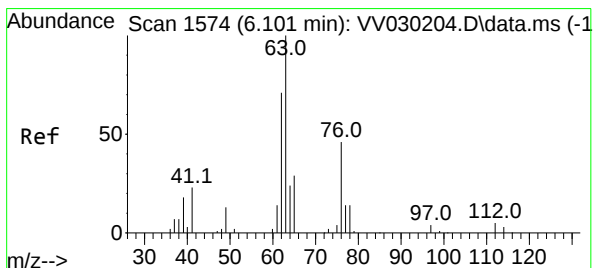
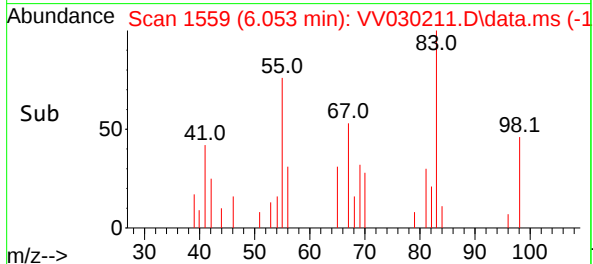
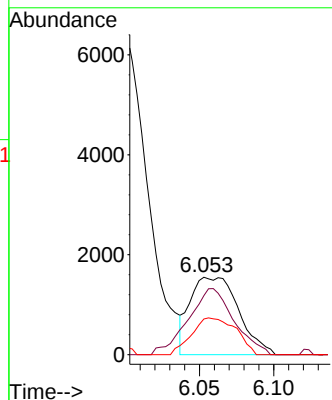
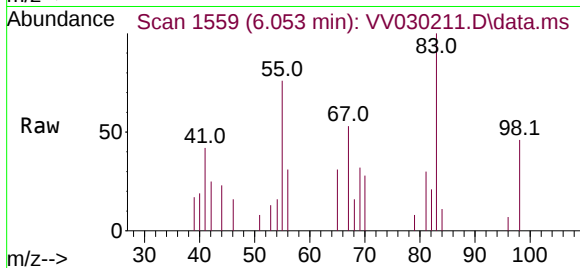
Tgt Ion: 83 Resp: 3519

Ion Ratio Lower Upper

83 100

55 80.6 57.6 86.4

98 43.4 38.8 58.2



#37

1,2-Dichloropropane

Concen: 0.493 ug/L

RT: 5.995 min Scan# 1541

Delta R.T. -0.106 min

Lab File: VV030211.D

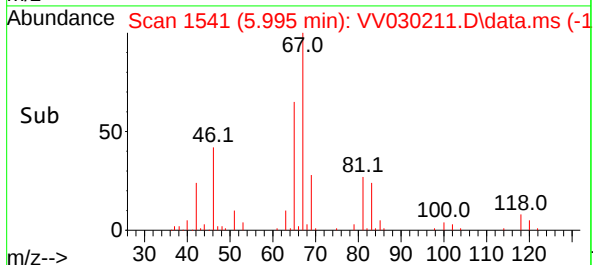
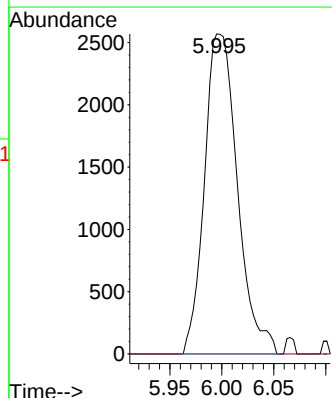
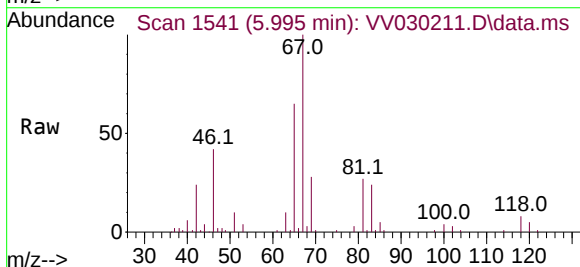
Acq: 15 Mar 2023 15:00

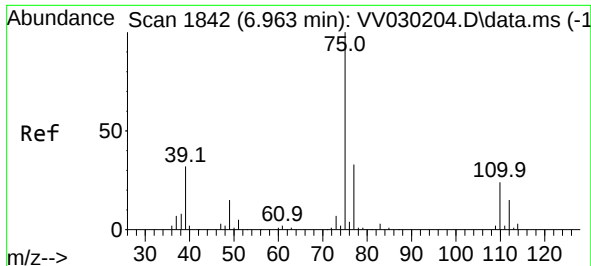
Tgt Ion: 63 Resp: 5670

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 6.924 min Scan# 1830

Delta R.T. -0.039 min

Lab File: VV030211.D

Acq: 15 Mar 2023 15:00

Instrument :

MSVOA_V

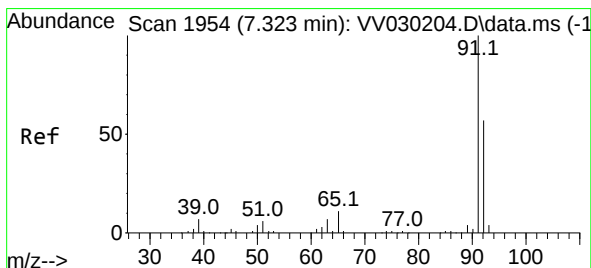
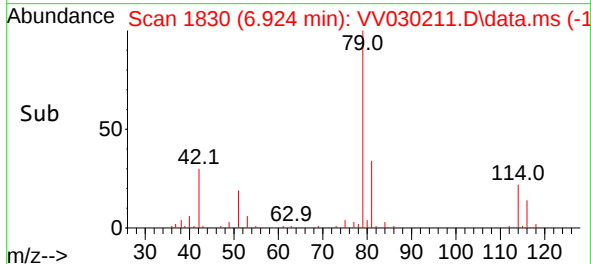
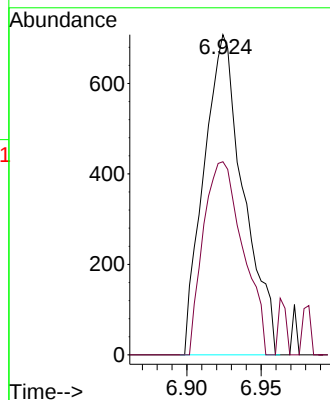
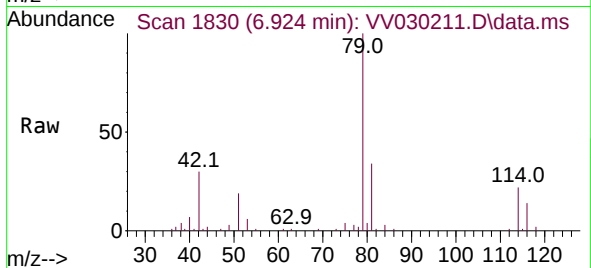
ClientSampleId :

Tgt Ion: 75 Resp: 1313

Ion Ratio Lower Upper

75 100

77 60.3 22.3 41.3#



#42

Toluene

Concen: 0.255 ug/L

RT: 7.329 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VV030211.D

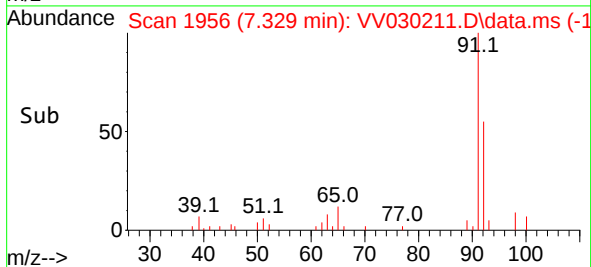
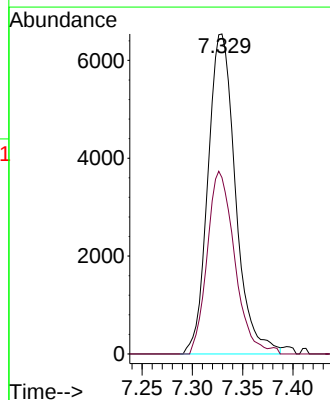
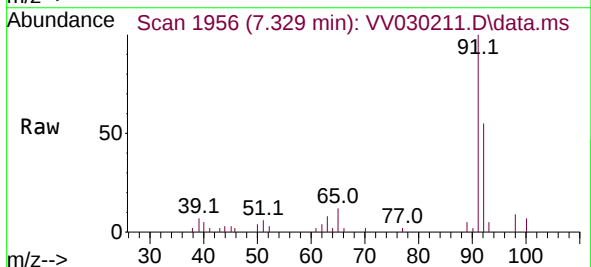
Acq: 15 Mar 2023 15:00

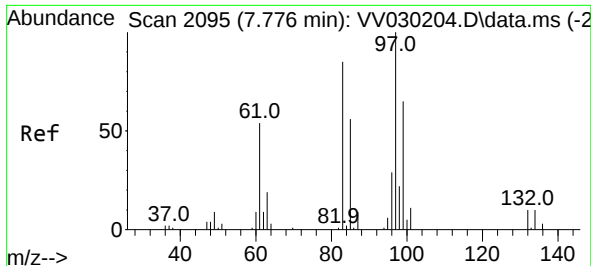
Tgt Ion: 91 Resp: 12493

Ion Ratio Lower Upper

91 100

92 55.1 39.6 73.6

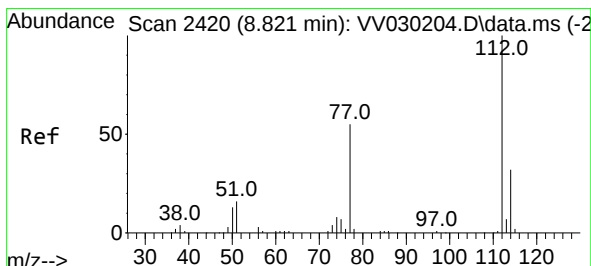
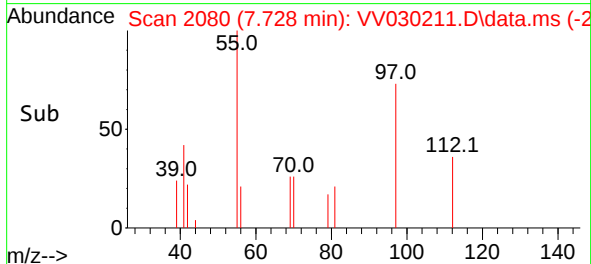
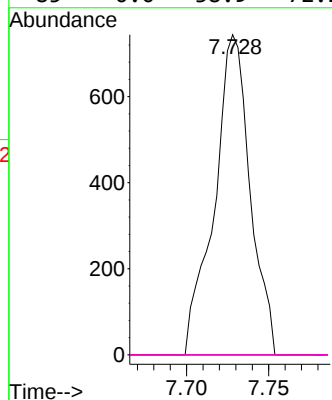
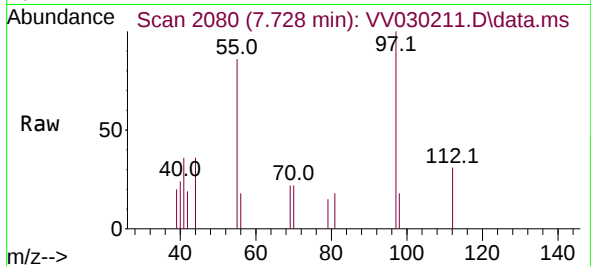




#45
1,1,2-Trichloroethane
Concen: 0.137 ug/L
RT: 7.728 min Scan# 2095
Delta R.T. -0.048 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

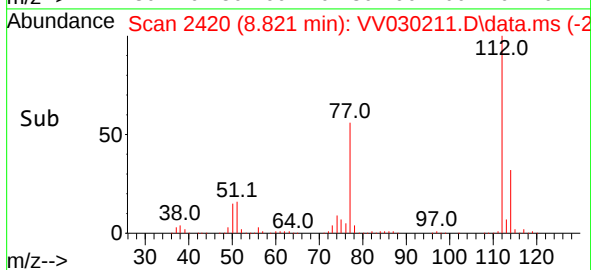
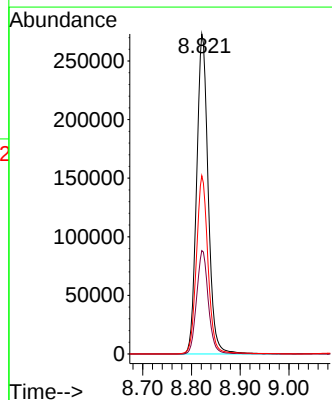
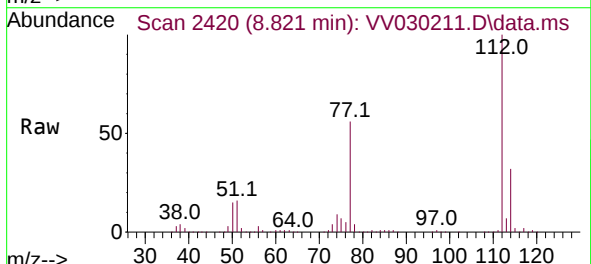
Instrument :
MSVOA_V
ClientSampleId :

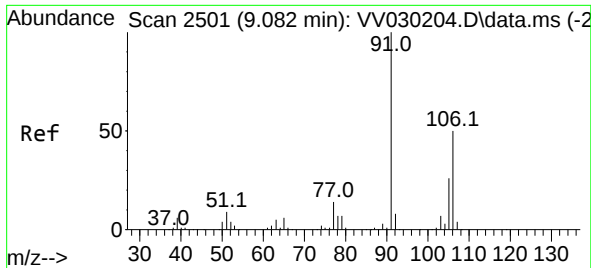
Tgt Ion: 97	Resp:	1131
Ion	Ratio	Lower Upper
97	100	
99	0.0	42.6 79.2#
83	0.0	57.7 107.3#
85	0.0	38.9 72.2#



#51
Chlorobenzene
Concen: 13.611 ug/L
RT: 8.821 min Scan# 2420
Delta R.T. -0.000 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion: 112	Resp:	449723
Ion	Ratio	Lower Upper
112	100	
114	32.3	22.5 41.7
77	55.7	45.3 67.9

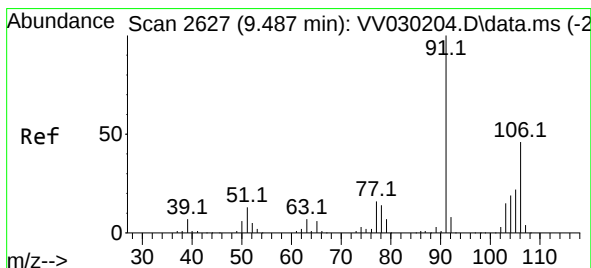
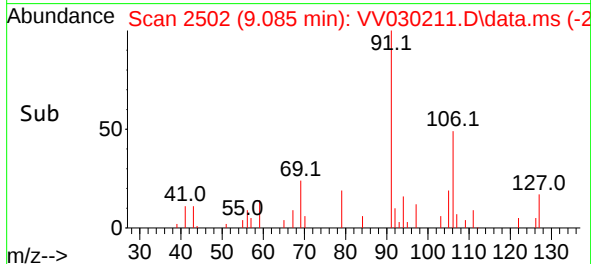
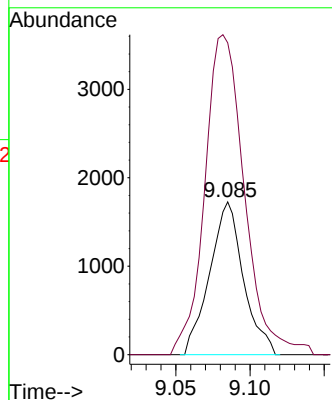
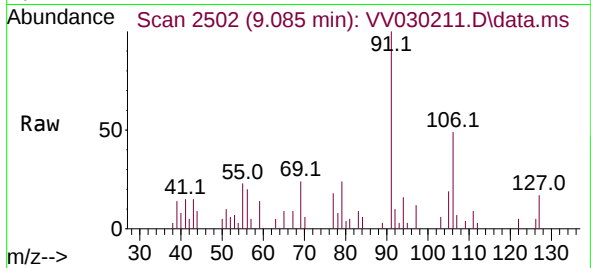




#53
m,p-Xylene
Concen: 0.133 ug/L
RT: 9.085 min Scan# 2501
Delta R.T. 0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

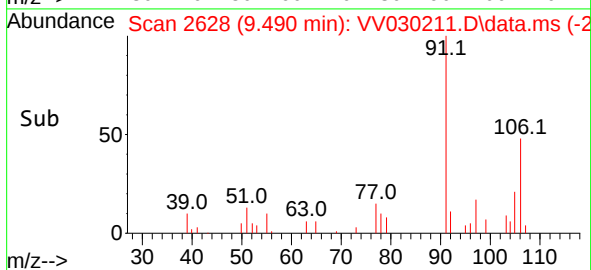
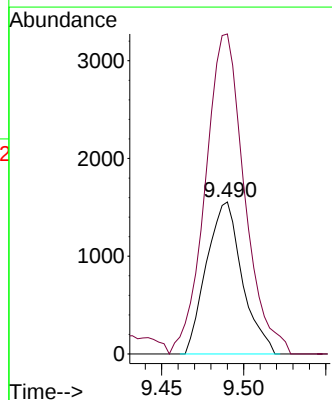
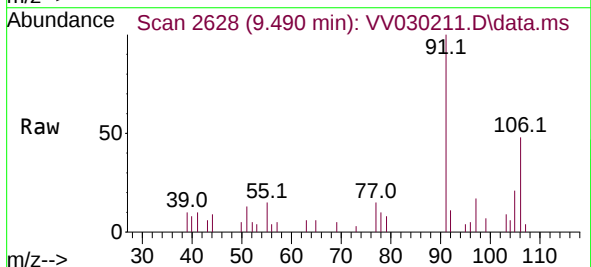
Instrument :
MSVOA_V
ClientSampleId :

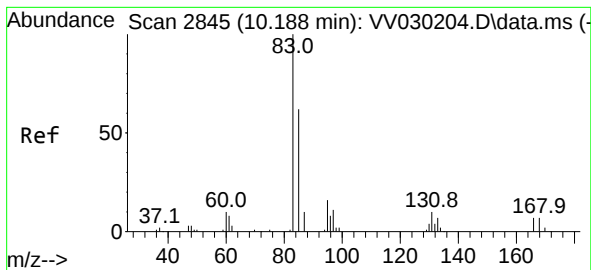
Tgt Ion:106 Resp: 2734
Ion Ratio Lower Upper
106 100
91 204.1 142.5 264.7



#54
o-Xylene
Concen: 0.120 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion:106 Resp: 2349
Ion Ratio Lower Upper
106 100
91 210.4 148.8 276.4

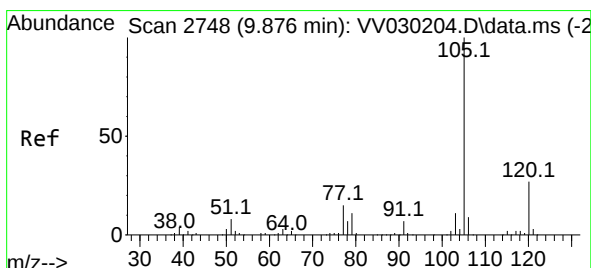
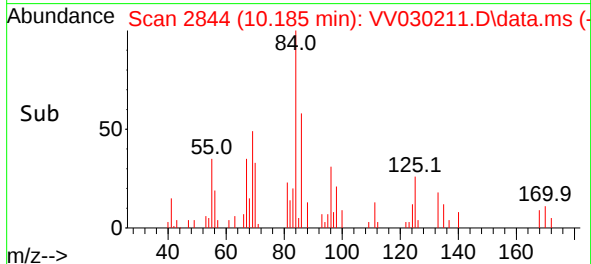
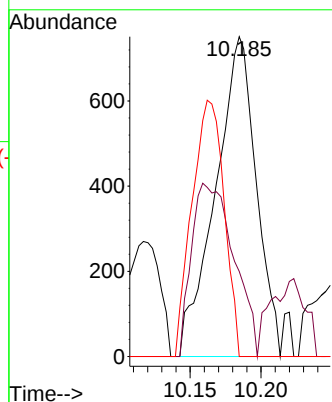
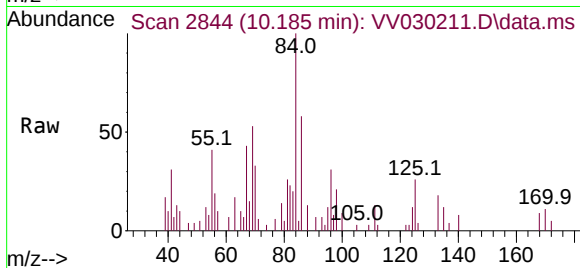




#57
 1,1,2-Tetrachloroethane
 Concen: 0.163 ug/L
 RT: 10.185 min Scan# 2845
 Delta R.T. -0.003 min
 Lab File: VV030211.D
 Acq: 15 Mar 2023 15:00

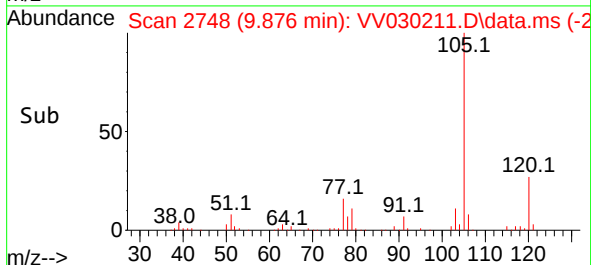
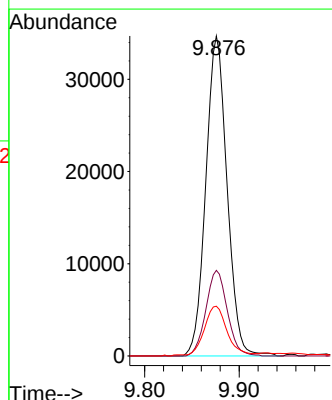
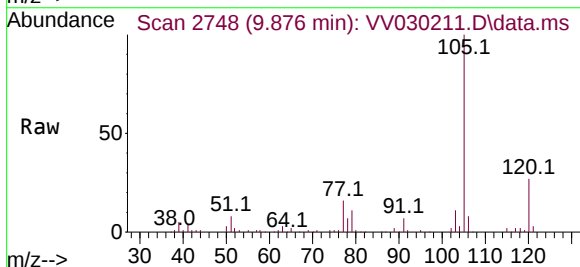
Instrument :
 MSVOA_V
 ClientSampleId :

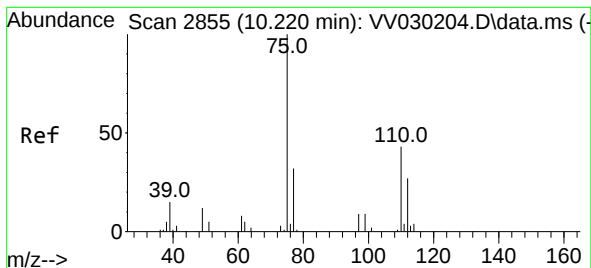
Tgt Ion: 83 Resp: 1502
 Ion Ratio Lower Upper
 83 100
 85 26.6 45.0 83.6#
 131 0.0 8.2 12.4#



#60
 Isopropylbenzene
 Concen: 0.912 ug/L
 RT: 9.876 min Scan# 2748
 Delta R.T. -0.000 min
 Lab File: VV030211.D
 Acq: 15 Mar 2023 15:00

Tgt Ion: 105 Resp: 54109
 Ion Ratio Lower Upper
 105 100
 120 26.9 21.4 32.0
 77 17.0 12.1 18.1





#61

1,2,3-Trichloropropane

Concen: 3.795 ug/L

RT: 11.217 min Scan# 3165

Delta R.T. 0.997 min

Lab File: VV030211.D

Acq: 15 Mar 2023 15:00

Instrument :

MSVOA_V

ClientSampleId :

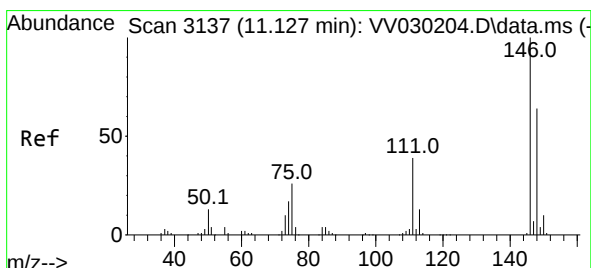
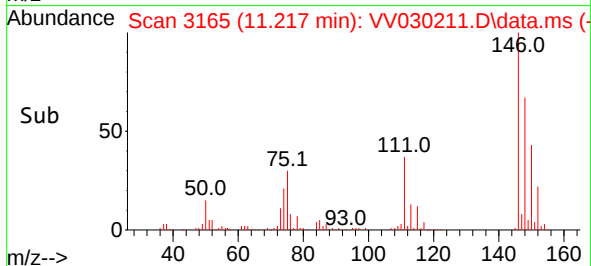
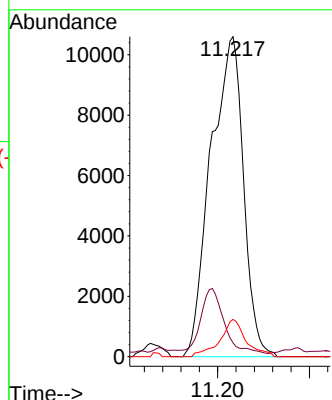
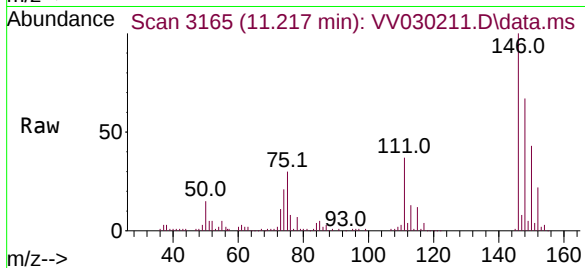
Tgt Ion: 75 Resp: 26184

Ion Ratio Lower Upper

75 100

77 0.0 26.5 39.7#

110 9.3 31.8 47.6#



#64

1,3-Dichlorobenzene

Concen: 0.067 ug/L

RT: 11.133 min Scan# 3139

Delta R.T. 0.006 min

Lab File: VV030211.D

Acq: 15 Mar 2023 15:00

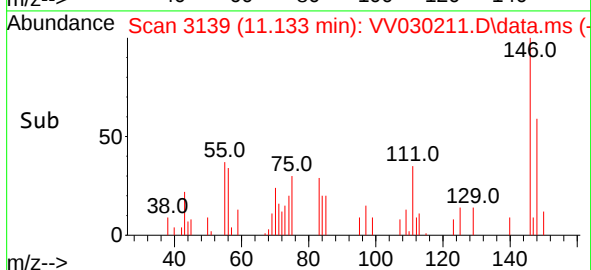
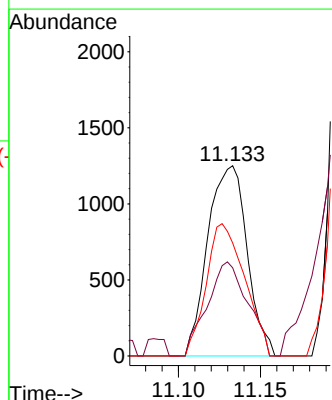
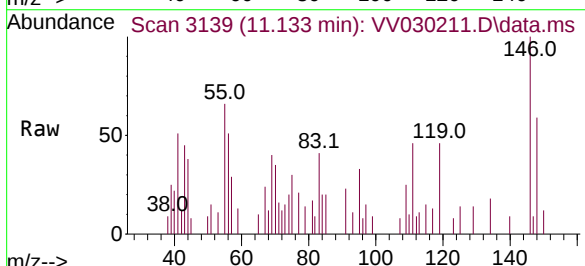
Tgt Ion:146 Resp: 2082

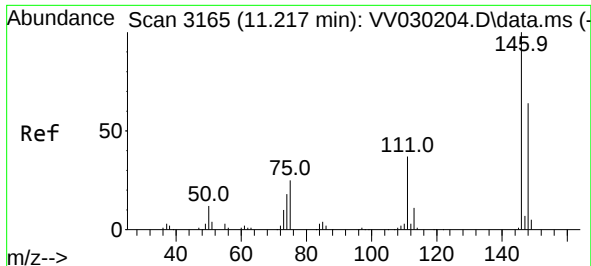
Ion Ratio Lower Upper

146 100

111 46.4 27.7 51.5

148 59.4 44.5 82.7

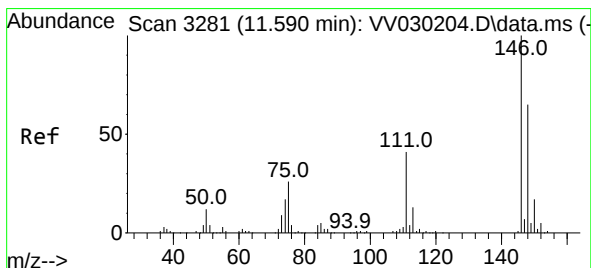
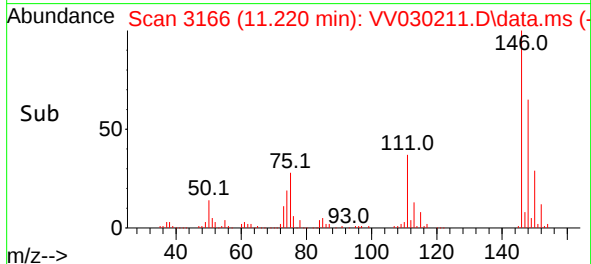
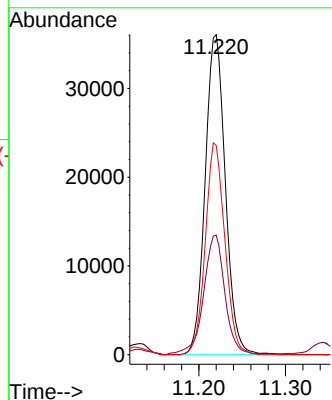
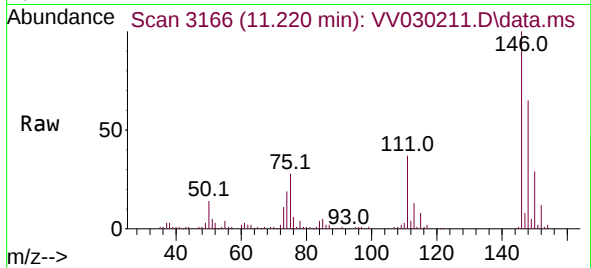




#65
1,4-Dichlorobenzene
Concen: 1.874 ug/L
RT: 11.220 min Scan# 3165
Delta R.T. 0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

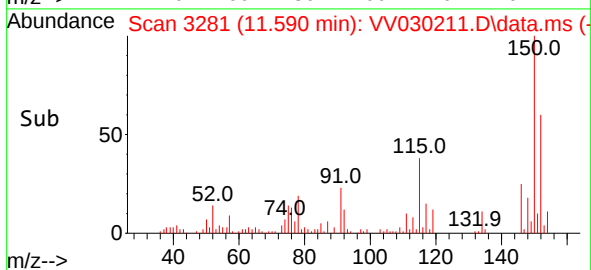
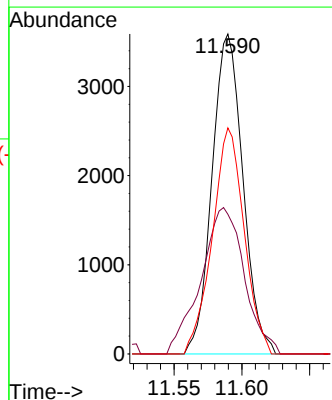
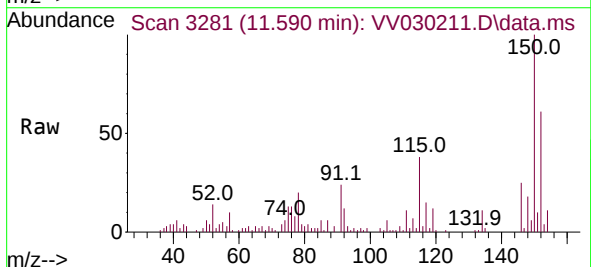
Instrument :
MSVOA_V
ClientSampleId :

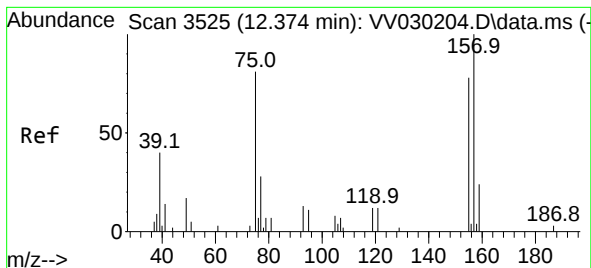
Tgt Ion:146 Resp: 58390
Ion Ratio Lower Upper
146 100
111 37.4 27.4 51.0
148 65.5 44.1 81.9



#67
1,2-Dichlorobenzene
Concen: 0.208 ug/L
RT: 11.590 min Scan# 3281
Delta R.T. -0.000 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion:146 Resp: 5684
Ion Ratio Lower Upper
146 100
111 43.7 33.5 50.3
148 70.7 51.3 76.9

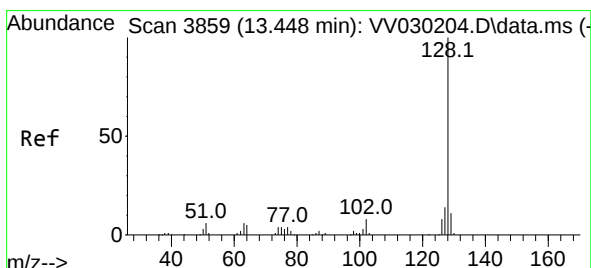
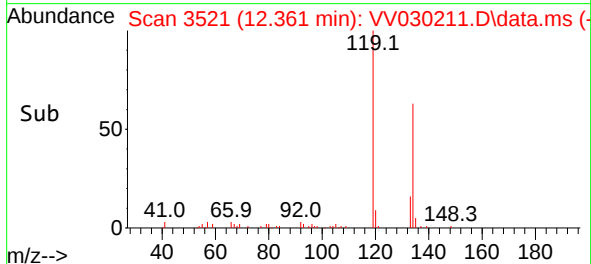
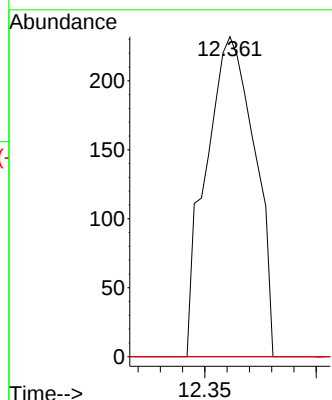
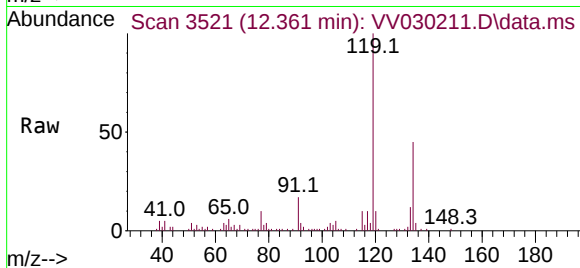




#68
1,2-Dibromo-3-chloropropane
Concen: 0.228 ug/L
RT: 12.361 min Scan# 352
Delta R.T. -0.013 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 352
Ion Ratio Lower Upper
75 100
155 0.0 79.1 118.7#
157 0.0 95.5 143.3#



#71
Naphthalene
Concen: 0.132 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.003 min
Lab File: VV030211.D
Acq: 15 Mar 2023 15:00

Tgt Ion: 128 Resp: 3539
Ion Ratio Lower Upper
128 100
129 10.1 8.6 13.0
127 14.5 10.4 15.6

