

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012722\
 Data File : VU046876.D
 Acq On : 27 Jan 2022 17:49
 Operator : SY/MD
 Sample : N1273-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0HK2

Quant Time: Jan 28 01:01:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR011822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 28 00:56:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	101256	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	109995	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	51176	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	30836	3.594	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.800%
7) Chloroethane-d5	1.919	69	29494	4.363	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.200%
11) 1,1-Dichloroethene-d2	2.572	65	14538	4.260	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.200%
20) 2-Butanone-d5	4.645	46	120257	47.311	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.620%
24) Chloroform-d	5.070	84	69507	4.615	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.200%
26) 1,2-Dichloroethane-d4	5.707	65	39218	4.781	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.600%
32) Benzene-d6	5.732	84	134112	4.148	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.000%
36) 1,2-Dichloropropane-d6	6.694	67	43798	4.512	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.200%
41) Toluene-d8	7.899	98	108251	3.658	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.200%
43) trans-1,3-Dichloroprop...	8.182	79	15409	3.615	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.200%
46) 2-Hexanone-d5	8.636	63	111236	44.071	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.140%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	40673	4.174	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.400%
66) 1,2-Dichlorobenzene-d4	12.195	152	43811	4.565	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.527	50	1915	0.244	ug/L	97
5) Vinyl chloride	1.610	62	3659	0.448	ug/L	88
9) Trichlorofluoromethane	2.147	101	489	0.049	ug/L	91
10) 1,1,2-Trichloro-1,2,2-...	2.588	101	2695	0.456	ug/L #	32
12) 1,1-Dichloroethene	2.588	96	1003219	177.440	ug/L #	58
16) Methylene chloride	3.054	84	8396	1.230	ug/L	94
17) Methyl tert-butyl Ether	3.369	73	3105	0.196	ug/L	96
18) trans-1,2-Dichloroethene	3.363	96	6221	1.016	ug/L	93
19) 1,1-Dichloroethane	3.877	63	182944	17.795	ug/L	99
22) cis-1,2-Dichloroethene	4.671	96	511305	79.150	ug/L	98
25) Chloroform	5.092	83	15767	0.966	ug/L	95
27) 1,2-Dichloroethane	5.803	62	8982	1.247	ug/L	97
29) 1,1,1-Trichloroethane	5.321	97	33587	3.390	ug/L	98
31) Carbon tetrachloride	5.321	117	4394	0.517	ug/L	95
33) Benzene	5.780	78	3833	0.148	ug/L	100
34) Trichloroethene	6.549	95	5175984	769.797	ug/L	97
35) Methylcyclohexane	6.694	83	10977	0.975	ug/L #	17
37) 1,2-Dichloropropane	6.697	63	4425	0.697	ug/L #	88
39) cis-1,3-Dichloropropene	7.571	75	927	0.094	ug/L #	33

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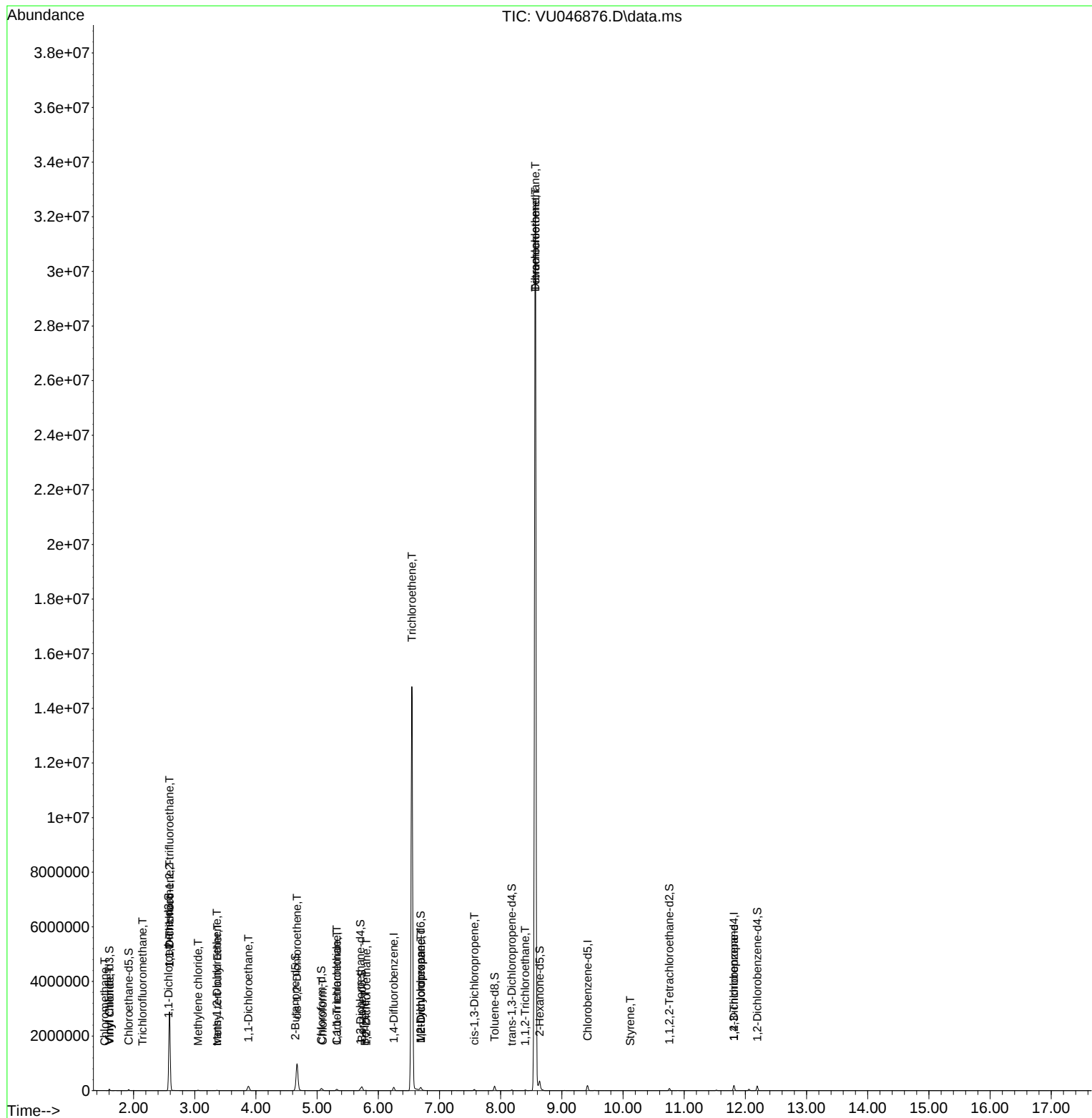
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.401	97	7997	1.480	ug/L	96
47) Tetrachloroethene	8.568	164	7467599	1365.560	ug/L	97
49) Dibromochloromethane	8.568	129	7668358	1202.763	ug/L #	10
55) Styrene	10.118	104	1690	0.091	ug/L	93
61) 1,2,3-Trichloropropane	11.812	75	6422	1.481	ug/L #	67

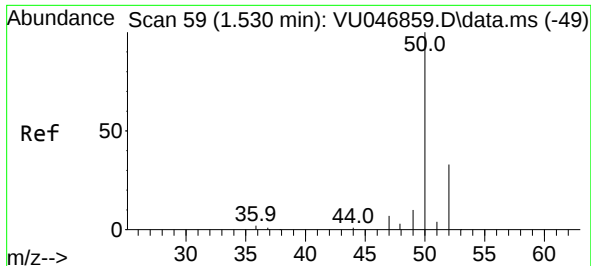
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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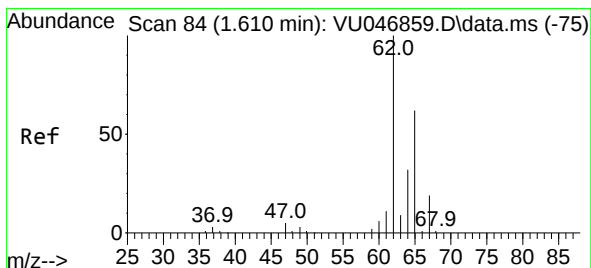
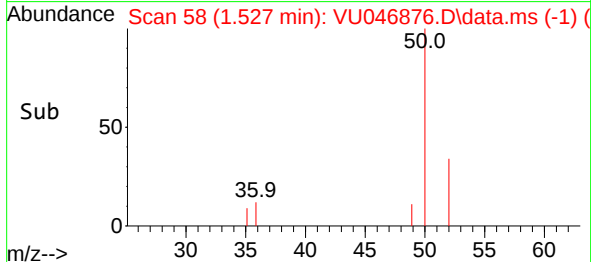
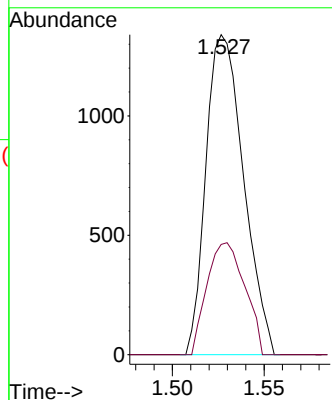
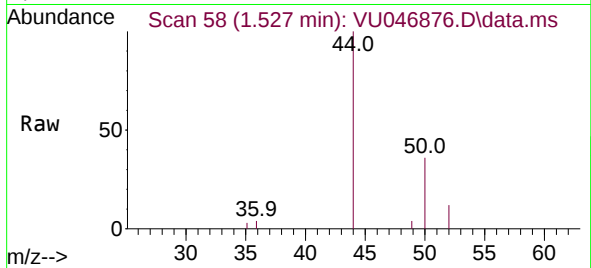




#3
Chloromethane
Concen: 0.244 ug/L
RT: 1.527 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

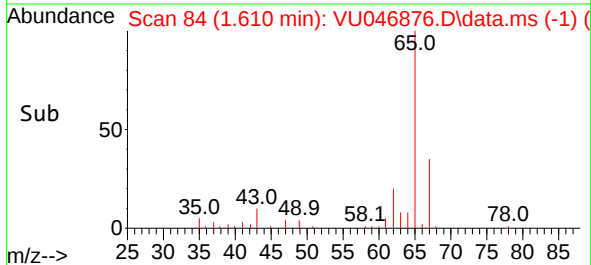
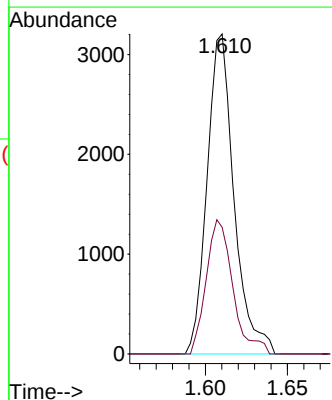
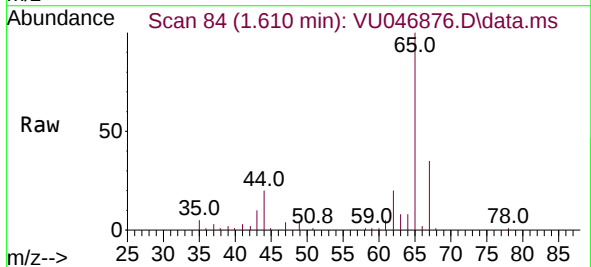
Instrument :
MSVOA_U
ClientSampleId :
C0HK2

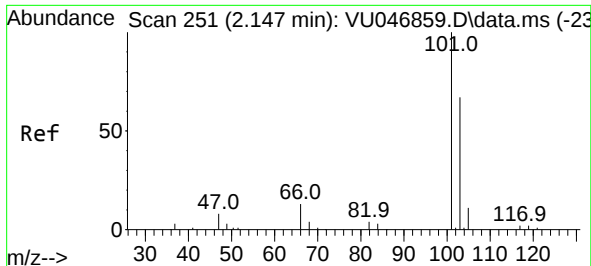
Tgt Ion: 50 Resp: 1915
Ion Ratio Lower Upper
50 100
52 34.5 23.0 42.8



#5
Vinyl chloride
Concen: 0.448 ug/L
RT: 1.610 min Scan# 84
Delta R.T. -0.000 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Tgt Ion: 62 Resp: 3659
Ion Ratio Lower Upper
62 100
64 39.6 22.9 42.5

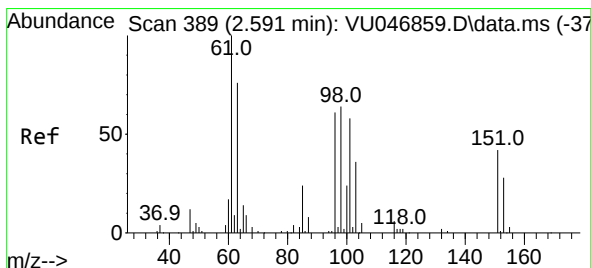
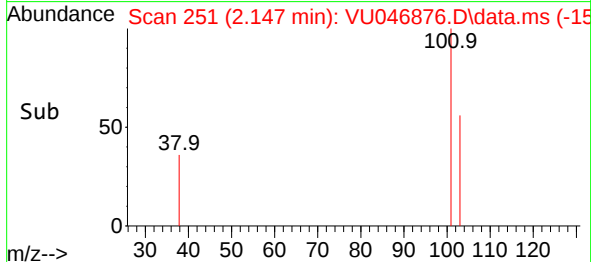
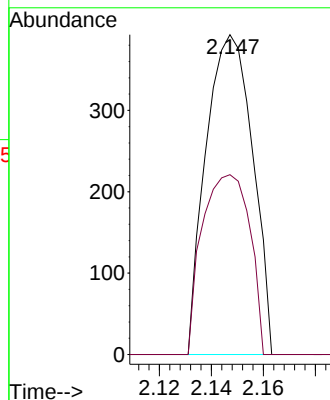
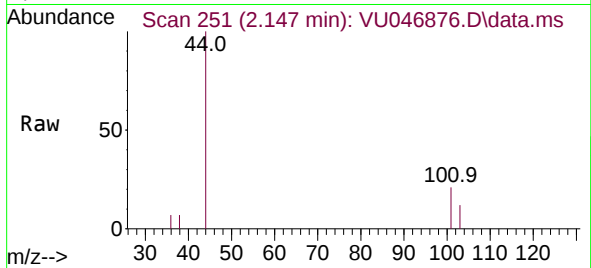




#9
 Trichlorofluoromethane
 Concen: 0.049 ug/L
 RT: 2.147 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU046876.D
 Acq: 27 Jan 2022 17:49

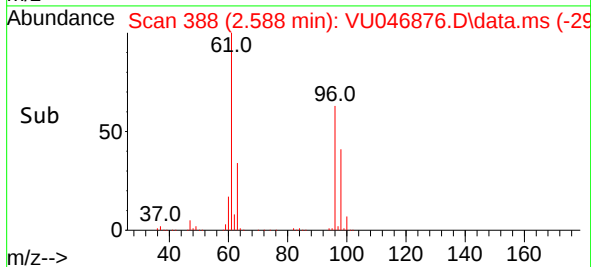
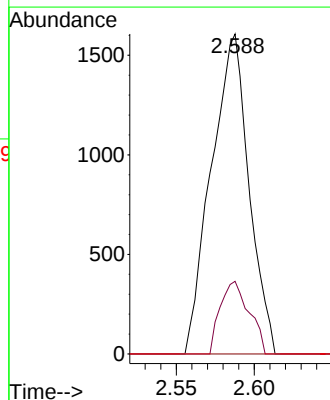
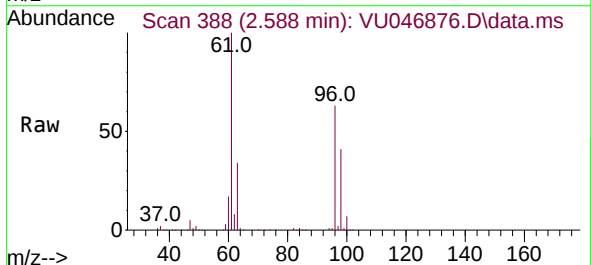
Instrument :
 MSVOA_U
 ClientSampleId :
 C0HK2

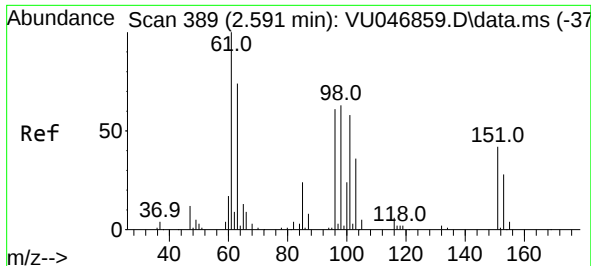
Tgt Ion:101 Resp: 489
 Ion Ratio Lower Upper
 101 100
 103 57.3 51.5 77.3



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.456 ug/L
 RT: 2.588 min Scan# 388
 Delta R.T. -0.003 min
 Lab File: VU046876.D
 Acq: 27 Jan 2022 17:49

Tgt Ion:101 Resp: 2695
 Ion Ratio Lower Upper
 101 100
 85 17.5 34.6 51.8#
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 177.440 ug/L

RT: 2.588 min Scan# 3

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

Instrument :

MSVOA_U

ClientSampleId :

C0HK2

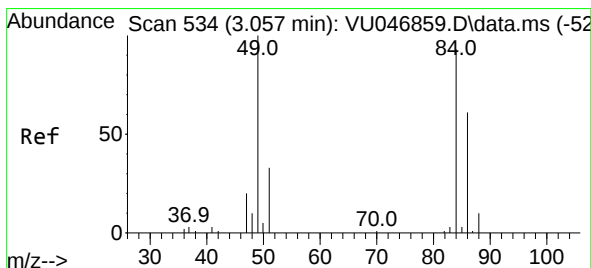
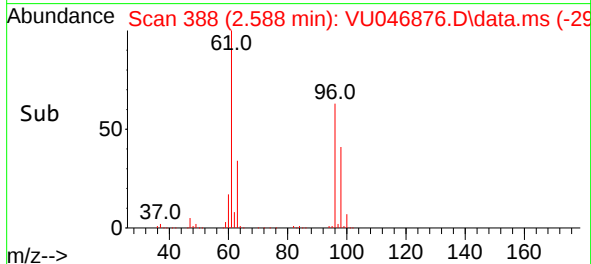
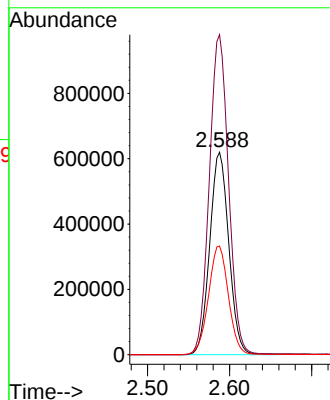
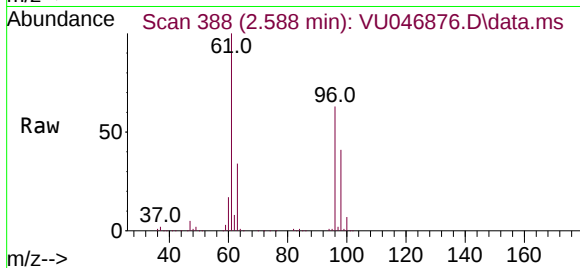
Tgt Ion: 96 Resp: 1003219

Ion Ratio Lower Upper

96 100

61 158.1 124.7 231.5

63 53.7 105.2 195.4#



#16

Methylene chloride

Concen: 1.230 ug/L

RT: 3.054 min Scan# 533

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

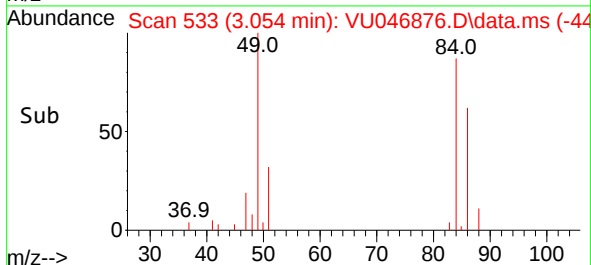
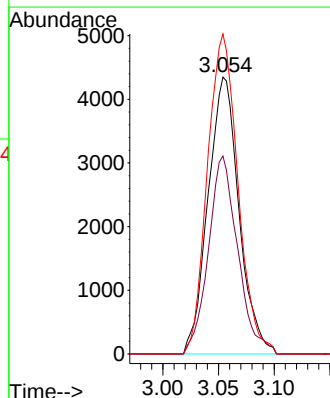
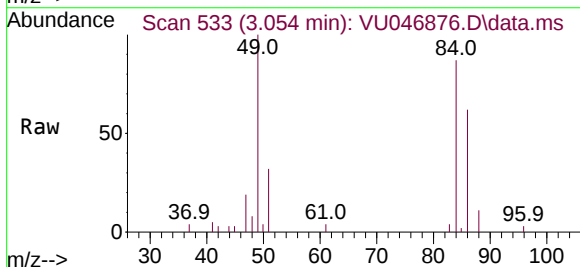
Tgt Ion: 84 Resp: 8396

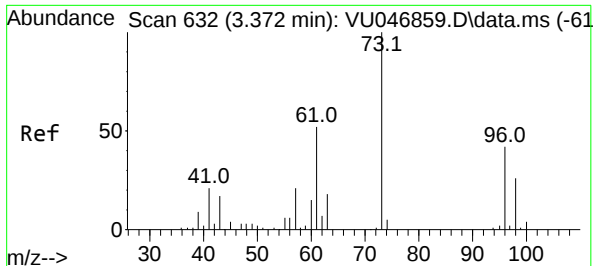
Ion Ratio Lower Upper

84 100

86 71.5 45.8 85.0

49 115.6 84.5 156.9





#17

Methyl tert-butyl Ether

Concen: 0.196 ug/L

RT: 3.369 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

Instrument :

MSVOA_U

ClientSampleId :

C0HK2

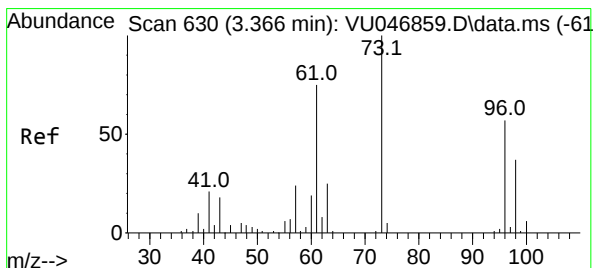
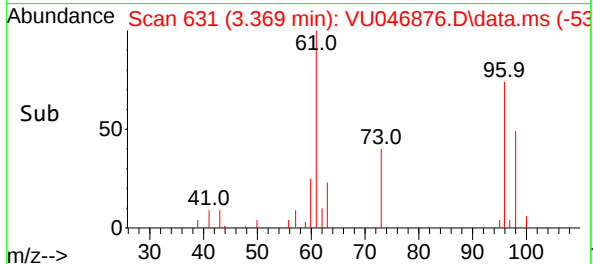
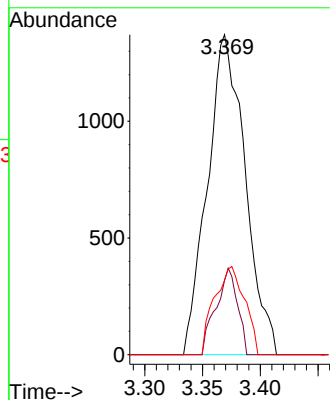
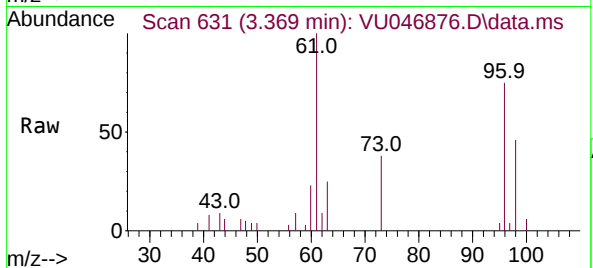
Tgt Ion: 73 Resp: 3105

Ion Ratio Lower Upper

73 100

43 15.4 14.8 22.2

57 22.0 17.4 26.0



#18

trans-1,2-Dichloroethene

Concen: 1.016 ug/L

RT: 3.363 min Scan# 629

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

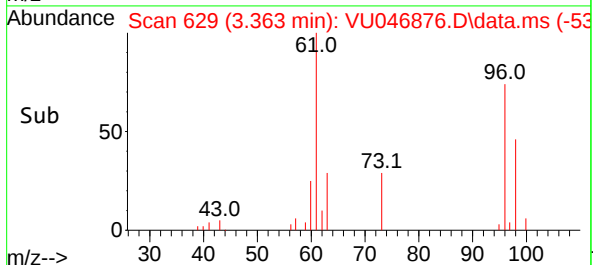
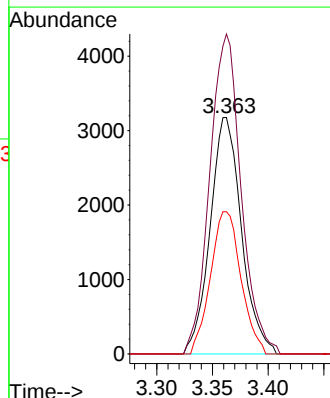
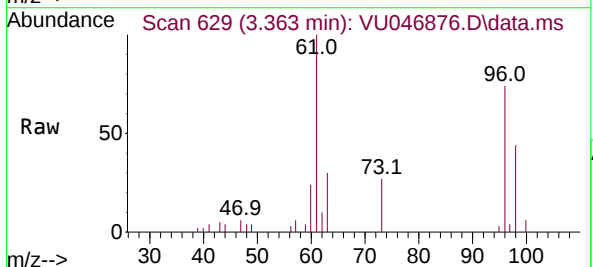
Tgt Ion: 96 Resp: 6221

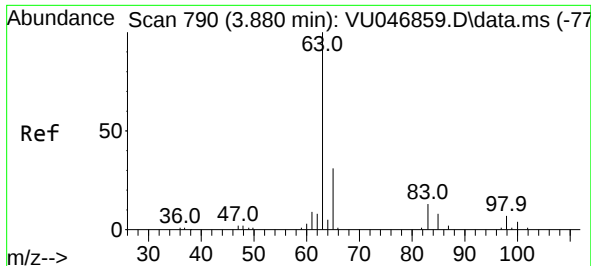
Ion Ratio Lower Upper

96 100

61 135.3 100.8 187.2

98 60.2 45.1 83.7





#19

1,1-Dichloroethane

Concen: 17.795 ug/L

RT: 3.877 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

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ClientSampleId :

C0HK2

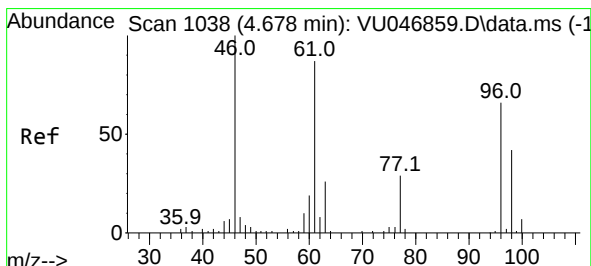
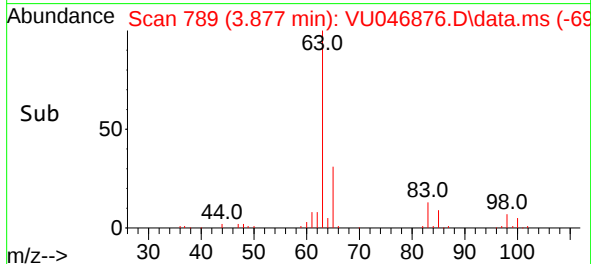
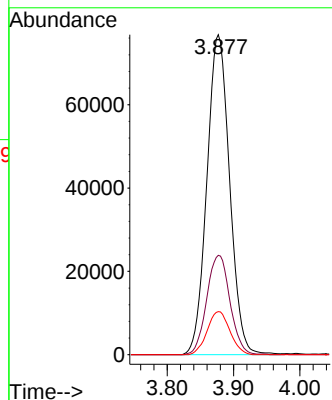
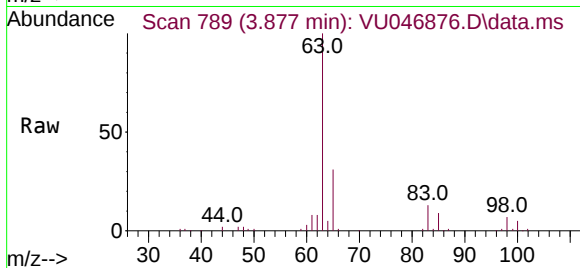
Tgt Ion: 63 Resp: 182944

Ion Ratio Lower Upper

63 100

65 31.0 22.3 41.5

83 13.5 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 79.150 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

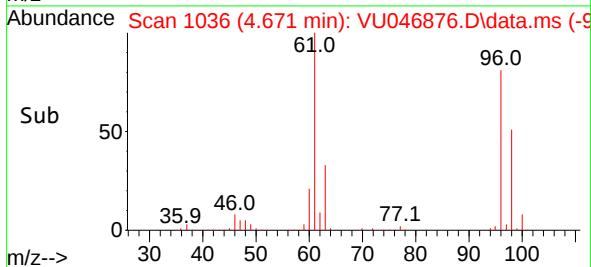
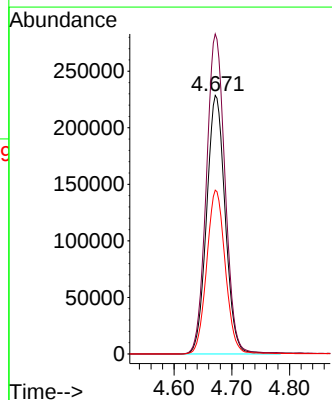
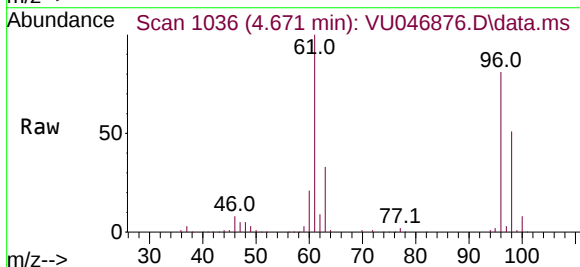
Tgt Ion: 96 Resp: 511305

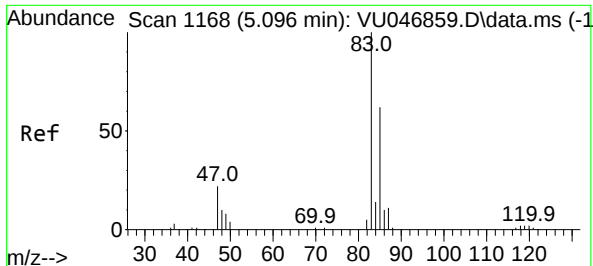
Ion Ratio Lower Upper

96 100

61 123.8 88.5 164.3

98 63.4 44.4 82.5





#25

Chloroform

Concen: 0.966 ug/L

RT: 5.092 min Scan# 1168

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

Instrument :

MSVOA_U

ClientSampleId :

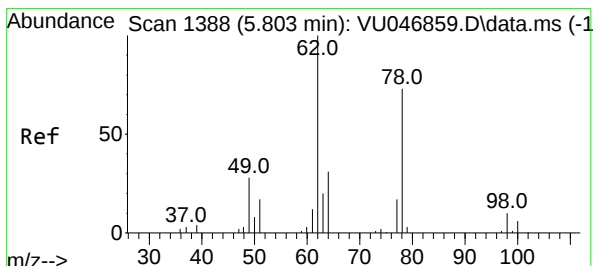
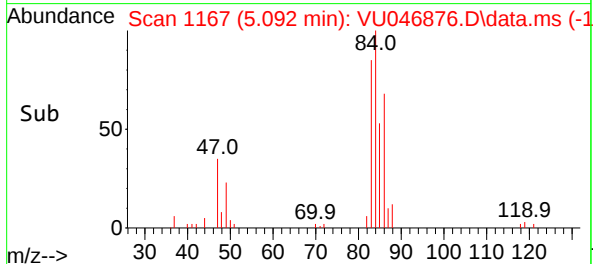
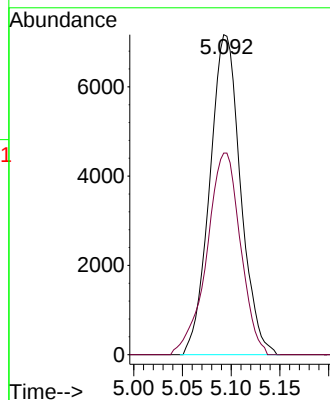
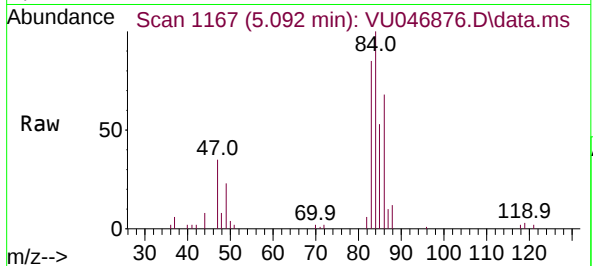
C0HK2

Tgt Ion: 83 Resp: 15767

Ion Ratio Lower Upper

83 100

85 63.0 46.9 87.1



#27

1,2-Dichloroethane

Concen: 1.247 ug/L

RT: 5.803 min Scan# 1388

Delta R.T. -0.000 min

Lab File: VU046876.D

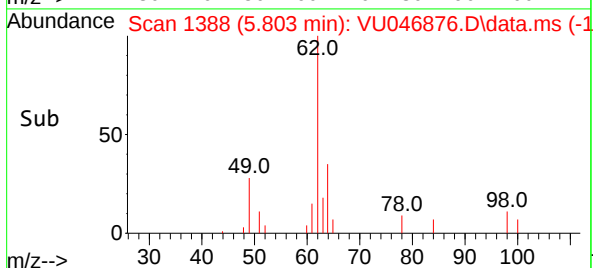
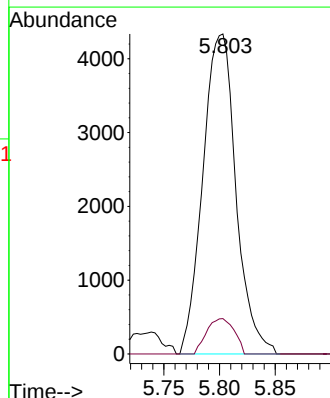
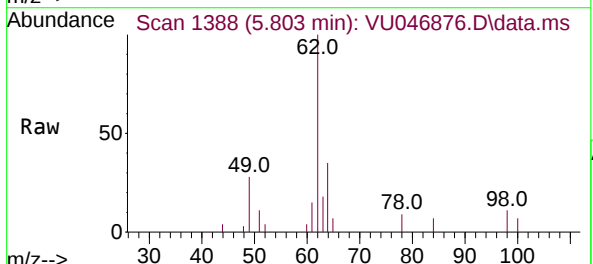
Acq: 27 Jan 2022 17:49

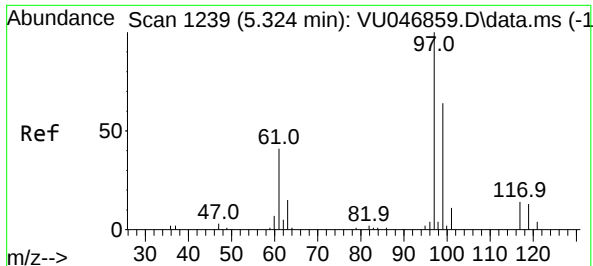
Tgt Ion: 62 Resp: 8982

Ion Ratio Lower Upper

62 100

98 11.1 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 3.390 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

Instrument :

MSVOA_U

ClientSampleId :

C0HK2

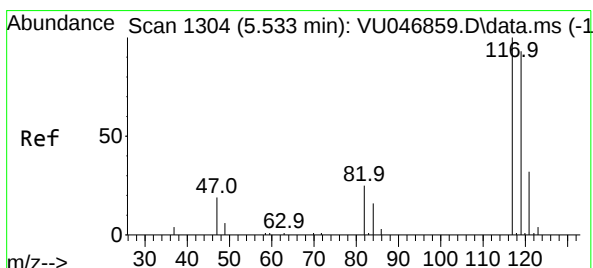
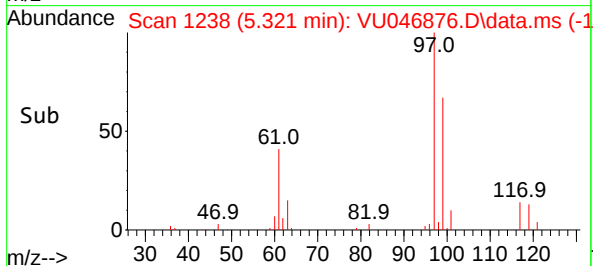
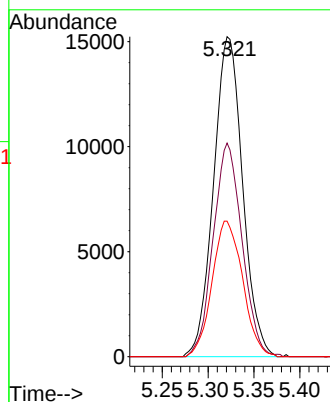
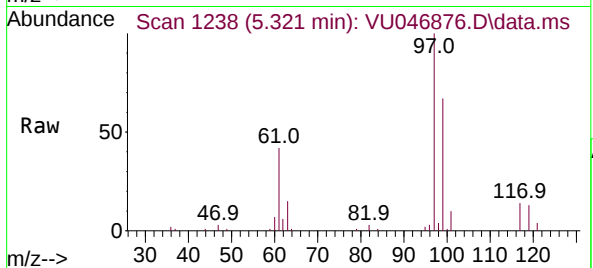
Tgt Ion: 97 Resp: 33587

Ion Ratio Lower Upper

97 100

99 66.2 51.3 76.9

61 44.6 36.1 54.1



#31

Carbon tetrachloride

Concen: 0.517 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.212 min

Lab File: VU046876.D

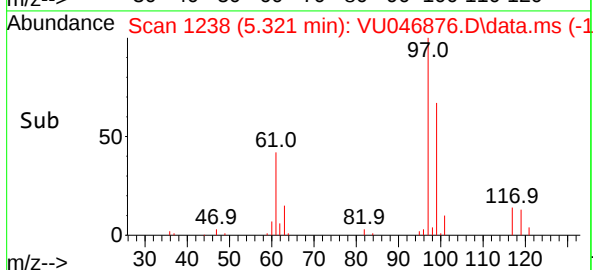
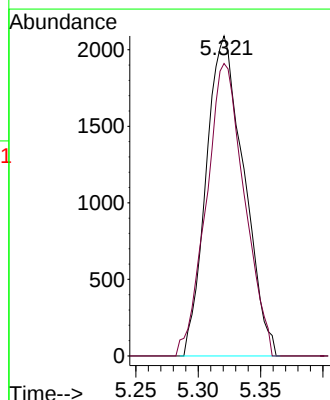
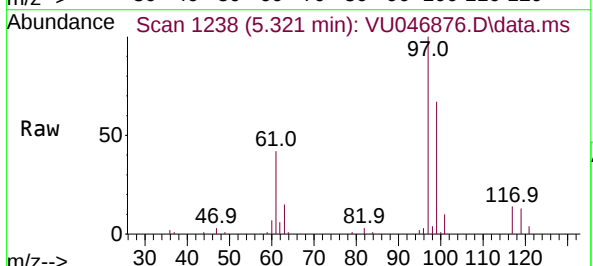
Acq: 27 Jan 2022 17:49

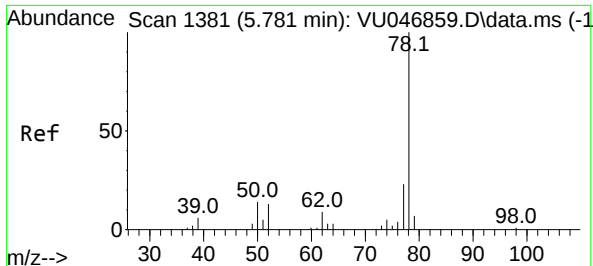
Tgt Ion: 117 Resp: 4394

Ion Ratio Lower Upper

117 100

119 92.1 77.5 116.3

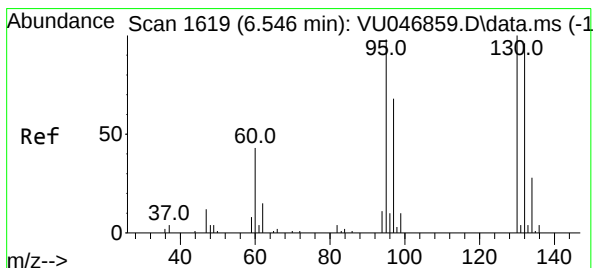
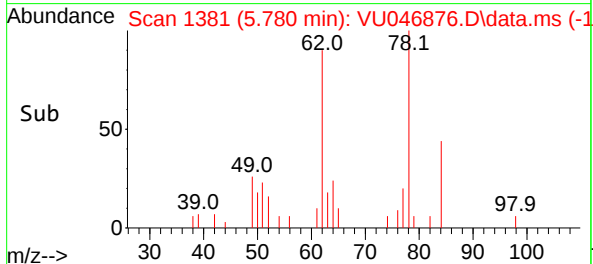
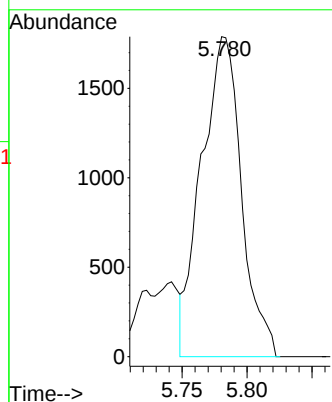
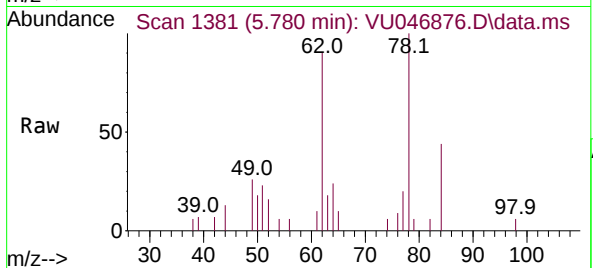




#33
Benzene
Concen: 0.148 ug/L
RT: 5.780 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Instrument :
MSVOA_U
ClientSampleId :
C0HK2

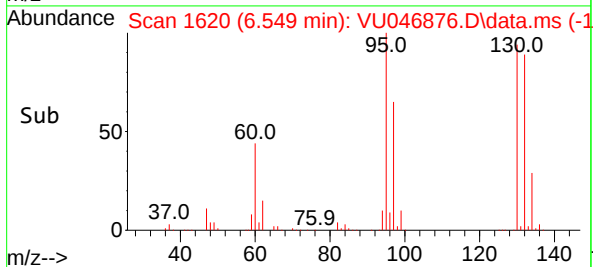
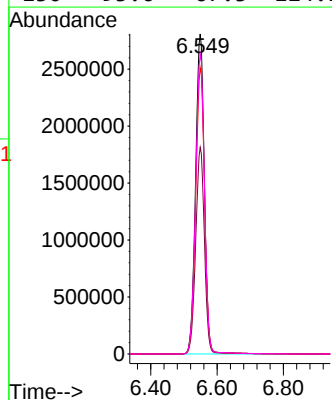
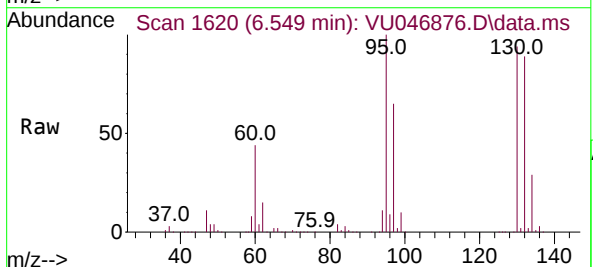
Tgt Ion: 78 Resp: 3833

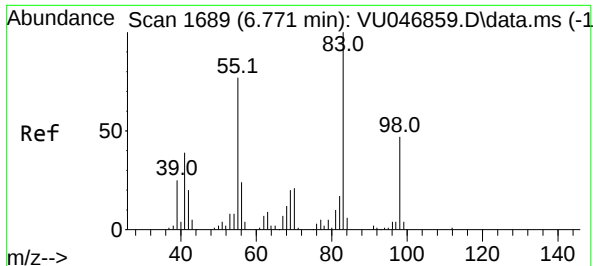


#34
Trichloroethene
Concen: 769.797 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.003 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Tgt Ion: 95 Resp: 5175984

Ion	Ratio	Lower	Upper
95	100		
97	64.6	46.5	86.5
132	89.4	65.1	120.9
130	93.6	67.3	124.9

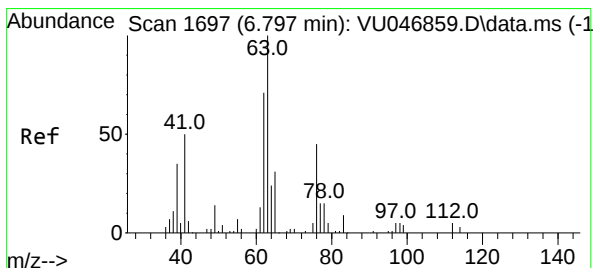
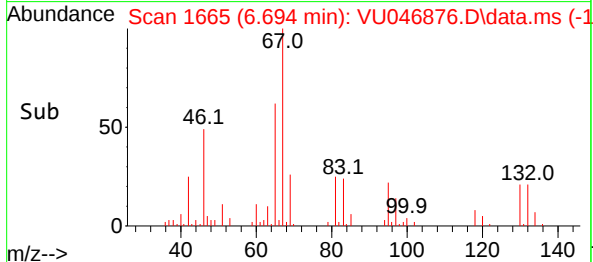
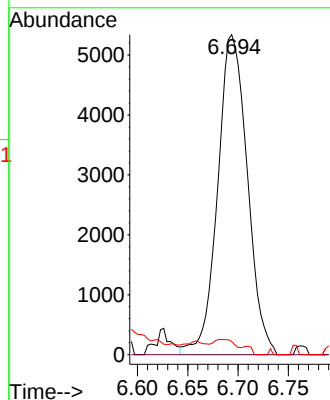
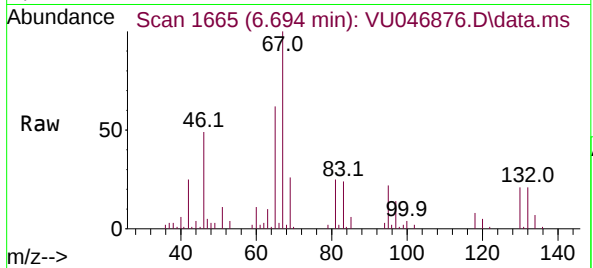




#35
Methylcyclohexane
Concen: 0.975 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.077 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

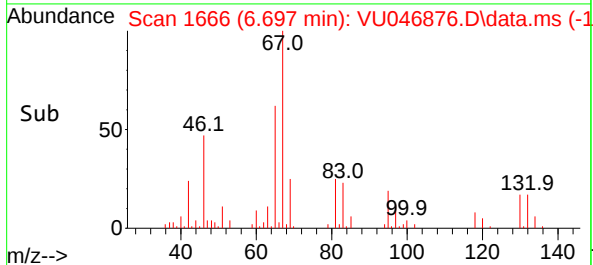
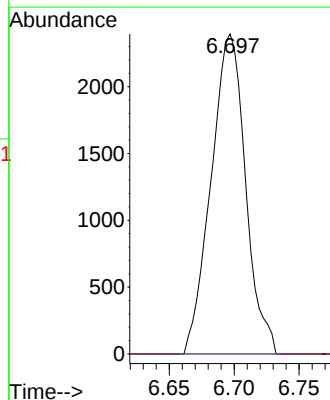
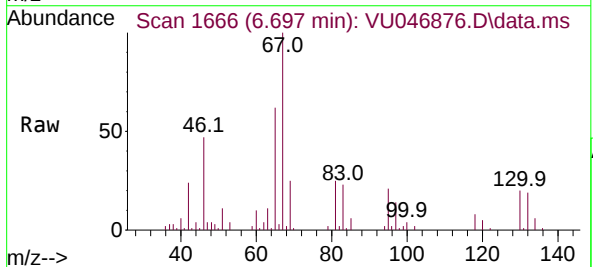
Instrument :
MSVOA_U
ClientSampleId :
C0HK2

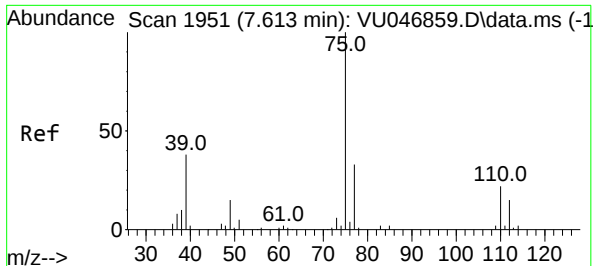
Tgt Ion: 83 Resp: 10977
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 0.0 39.0 58.6#



#37
1,2-Dichloropropane
Concen: 0.697 ug/L
RT: 6.697 min Scan# 1666
Delta R.T. -0.100 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Tgt Ion: 63 Resp: 4425
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.094 ug/L

RT: 7.571 min Scan# 1938

Delta R.T. -0.042 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

Instrument :

MSVOA_U

ClientSampleId :

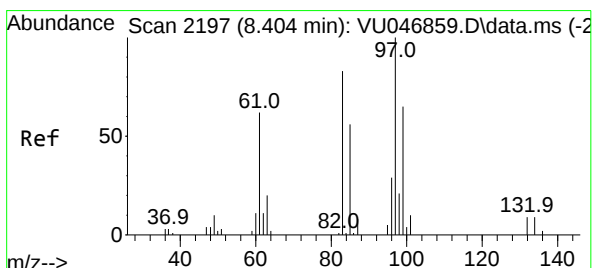
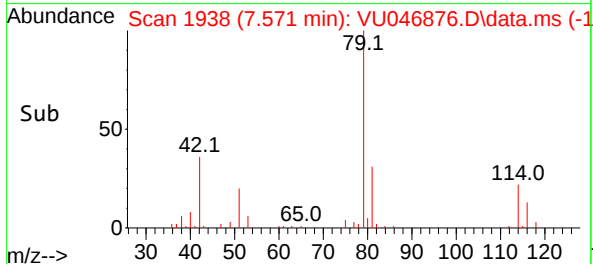
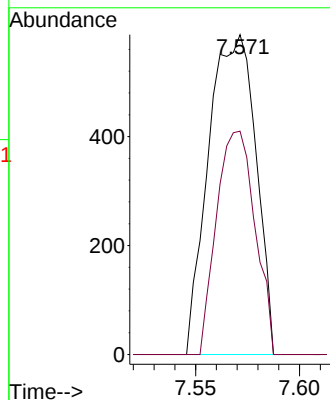
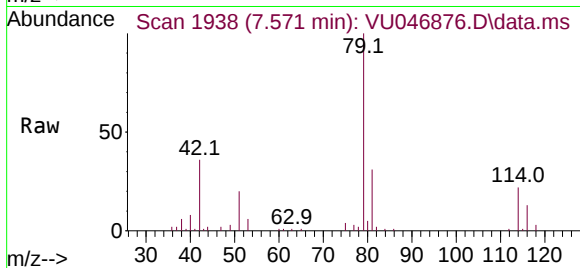
C0HK2

Tgt Ion: 75 Resp: 927

Ion Ratio Lower Upper

75 100

77 69.8 22.5 41.9#



#45

1,1,2-Trichloroethane

Concen: 1.480 ug/L

RT: 8.401 min Scan# 2196

Delta R.T. -0.003 min

Lab File: VU046876.D

Acq: 27 Jan 2022 17:49

Tgt Ion: 97 Resp: 7997

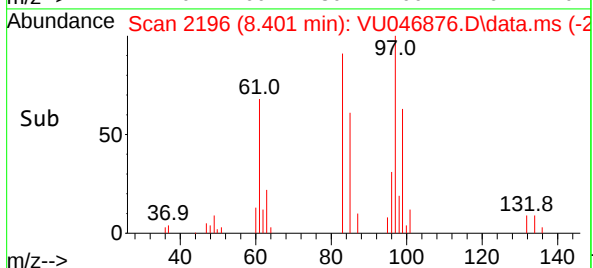
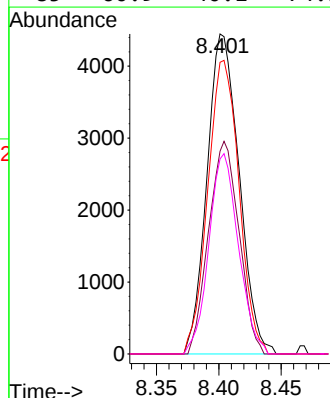
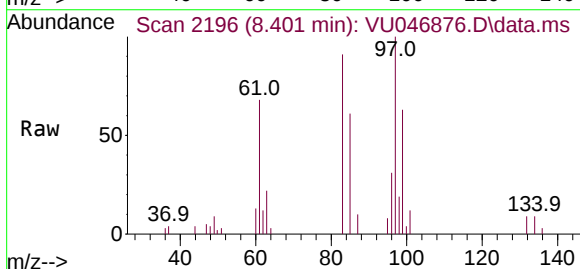
Ion Ratio Lower Upper

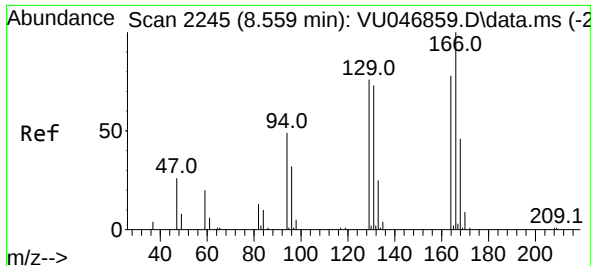
97 100

99 63.4 42.3 78.5

83 91.2 62.0 115.2

85 60.9 40.1 74.5

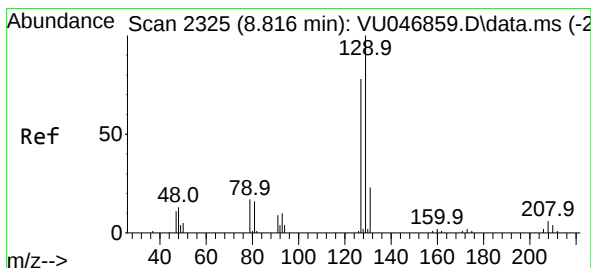
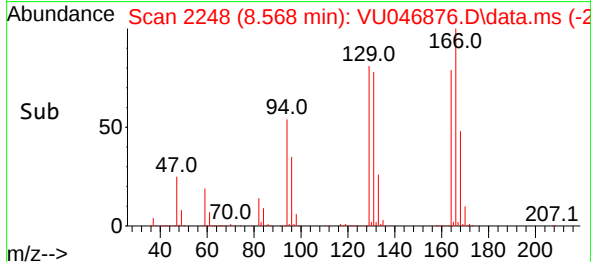
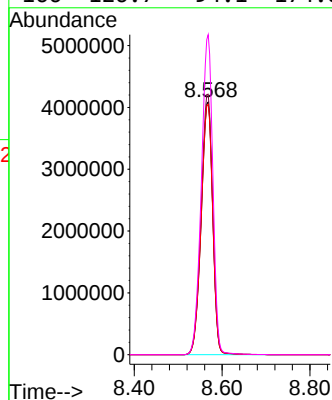
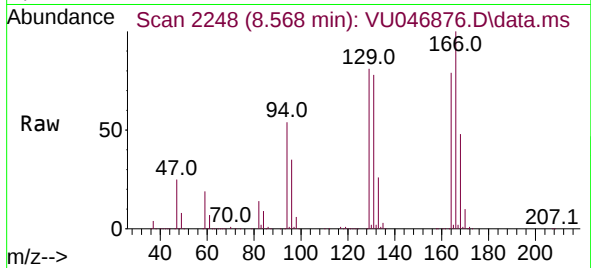




#47
Tetrachloroethene
Concen: 1365.560 ug/L
RT: 8.568 min Scan# 21
Delta R.T. 0.010 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

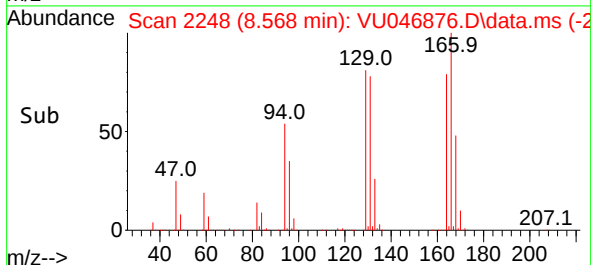
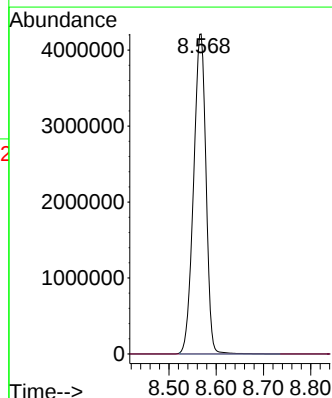
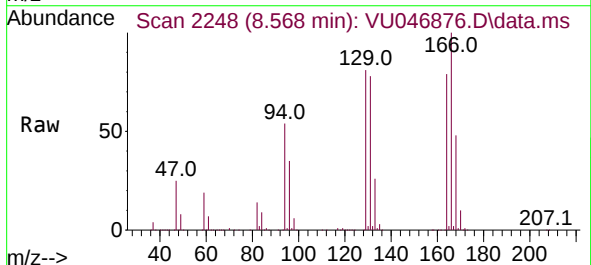
Instrument :
MSVOA_U
ClientSampleId :
C0HK2

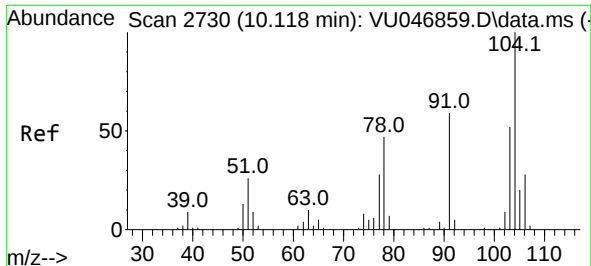
Tgt Ion:164 Resp: 7467599
Ion Ratio Lower Upper
164 100
129 103.1 71.8 133.4
131 99.1 68.5 127.3
166 126.7 94.1 174.8



#49
Dibromochloromethane
Concen: 1202.763 ug/L
RT: 8.568 min Scan# 2248
Delta R.T. -0.248 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Tgt Ion:129 Resp: 7668358
Ion Ratio Lower Upper
129 100
127 0.0 55.4 102.8#

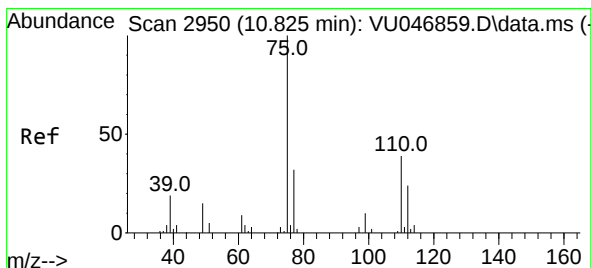
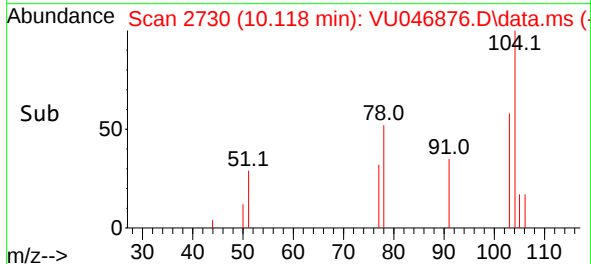
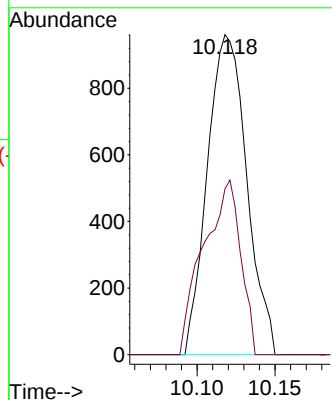
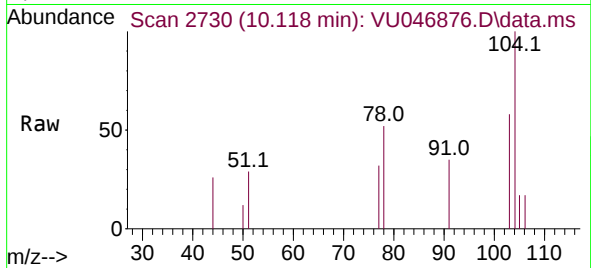




#55
Styrene
Concen: 0.091 ug/L
RT: 10.118 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Instrument :
MSVOA_U
ClientSampleId :
C0HK2

Tgt Ion:104 Resp: 1690
Ion Ratio Lower Upper
104 100
78 51.8 33.0 61.4



#61
1,2,3-Trichloropropane
Concen: 1.481 ug/L
RT: 11.812 min Scan# 3257
Delta R.T. 0.987 min
Lab File: VU046876.D
Acq: 27 Jan 2022 17:49

Tgt Ion: 75 Resp: 6422
Ion Ratio Lower Upper
75 100
110 1.1 29.9 44.9#
77 32.4 25.5 38.3

