

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082221\
 Data File : VX023894.D
 Acq On : 20 Aug 2021 21:52
 Operator : JC/MD
 Sample : M3411-02 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 21 01:11:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

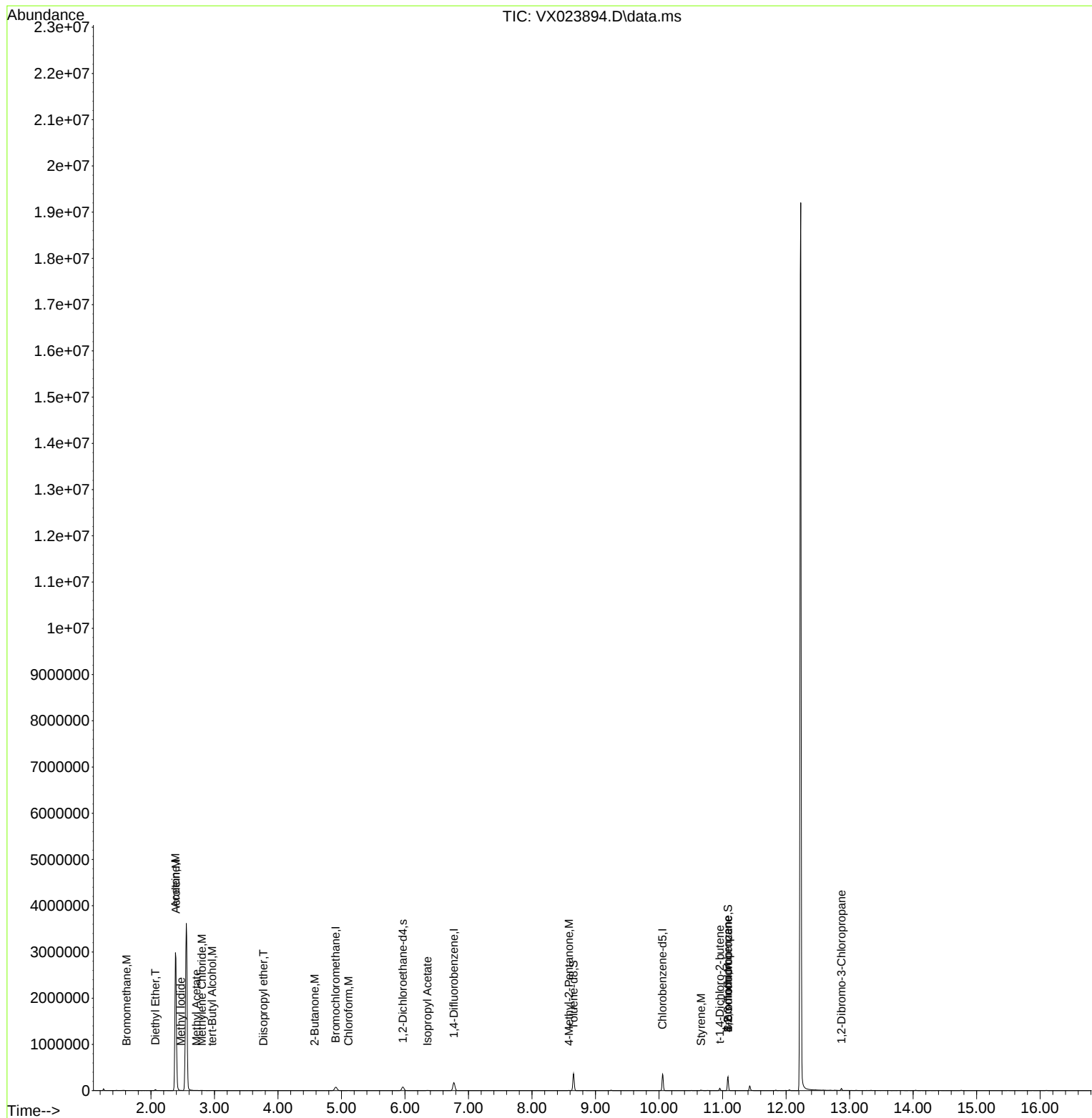
Internal Standards						
1) Bromochloromethane	4.910	128	31851	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	169691	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155726	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	77372	31.411	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.700%
60) 4-Bromofluorobenzene	11.085	95	74391	29.165	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.233%
63) Toluene-d8	8.653	98	205377	29.304	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.667%
Target Compounds						
					Qvalue	
5) Bromomethane	1.618	94	551	0.442	ug/l	92
8) Diethyl Ether	2.069	74	1263	1.033	ug/l #	1
11) Methyl Iodide	2.471	142	882	0.340	ug/l #	80
12) Methyl Acetate	2.715	43	3269	1.188	ug/l	92
13) Acrolein	2.392	56	706	2.330	ug/l #	1
15) Acetone	2.386	58	930844	2522.802	ug/l	99
18) Methylene Chloride	2.800	84	1810	0.834	ug/l #	83
20) Diisopropyl ether	3.770	45	3357	0.493	ug/l #	71
23) tert-Butyl Alcohol	2.965	59	1505	2.724	ug/l #	100
25) Chloroform	5.111	83	3125	0.821	ug/l	97
30) 2-Butanone	4.574	43	646	0.365	ug/l #	70
44) Isopropyl Acetate	6.355	43	7915	1.513	ug/l #	82
56) Bromoform	11.085	173	570	0.370	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	4012	1.195	ug/l	93
69) Styrene	10.659	104	3997	0.654	ug/l	93
72) 1,2,3-Trichloropropane	11.085	75	40060	13.670	ug/l	38
77) t-1,4-Dichloro-2-butene	10.957	75	794	0.759	ug/l #	41
88) 1,2-Dibromo-3-Chloropr...	12.872	75	992	1.449	ug/l #	1

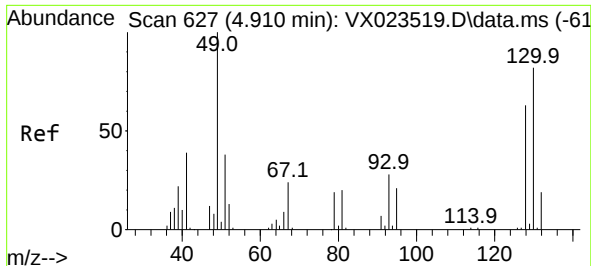
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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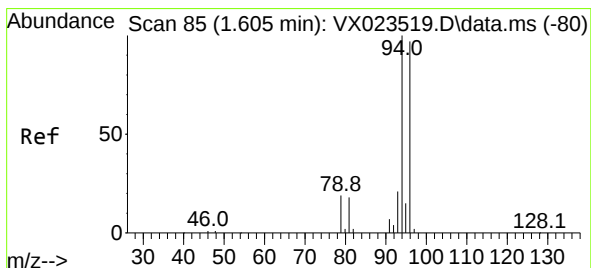
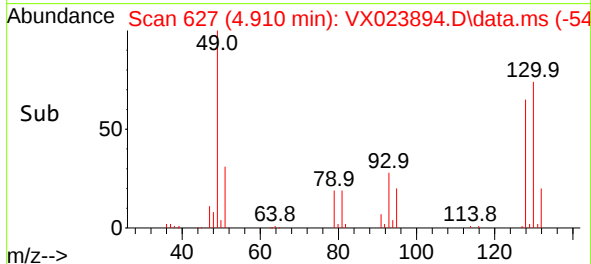
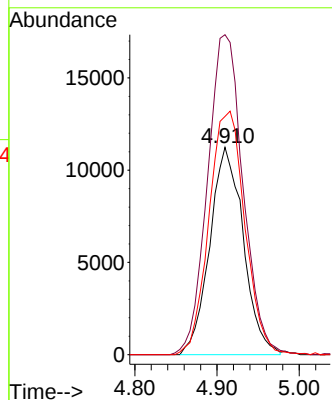
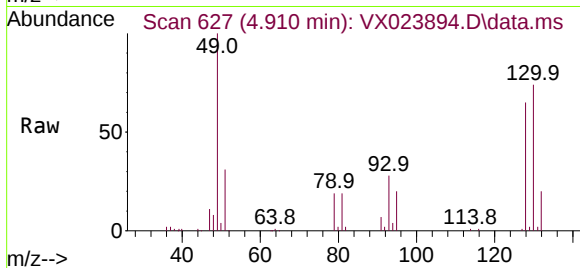




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 627
Delta R.T. -0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

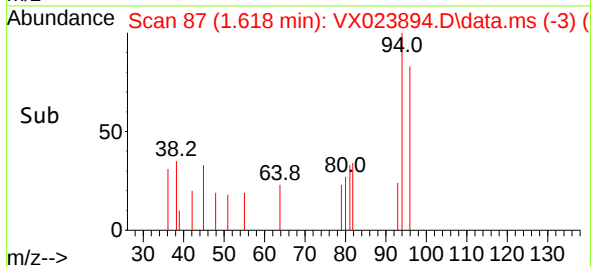
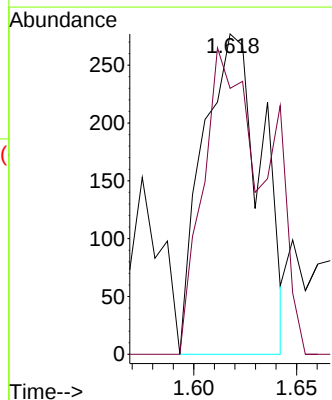
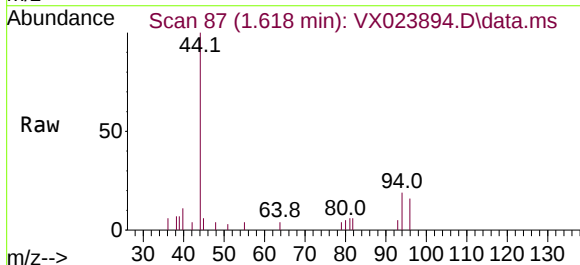
Instrument :
MSVOA_X
ClientSampled :

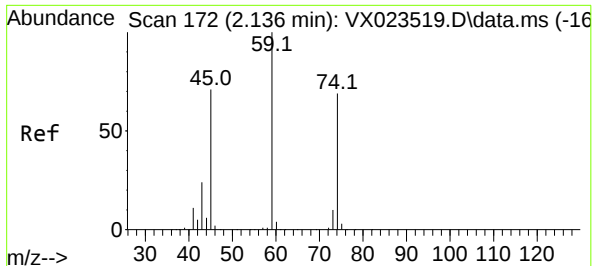
Tgt Ion:128 Resp: 31851
Ion Ratio Lower Upper
128 100
49 163.5 0.0 402.5
130 126.3 0.0 326.5



#5
Bromomethane
Concen: 0.442 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.012 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 94 Resp: 551
Ion Ratio Lower Upper
94 100
96 83.0 72.8 109.2

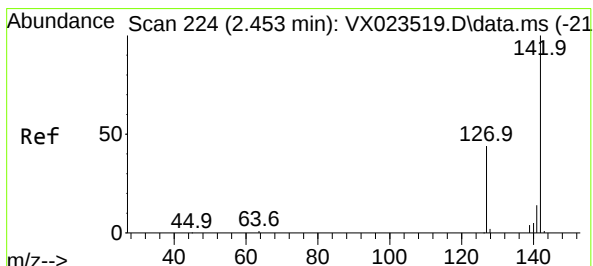
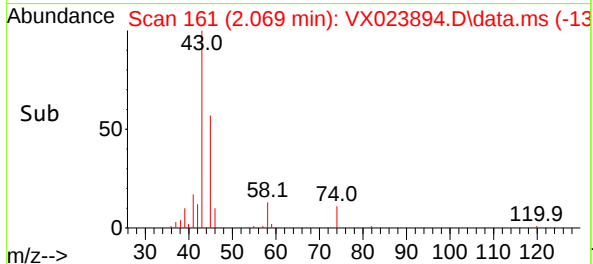
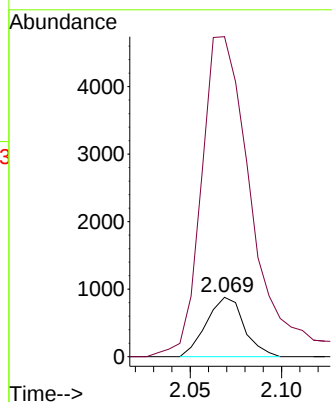
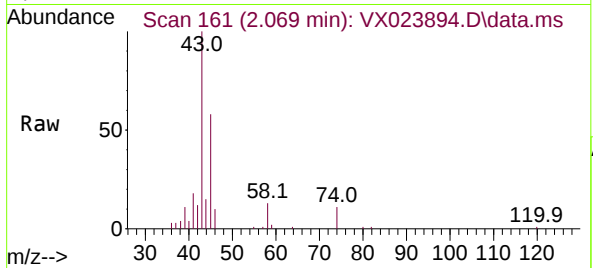




#8
Diethyl Ether
Concen: 1.033 ug/l
RT: 2.069 min Scan# 161
Delta R.T. -0.067 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

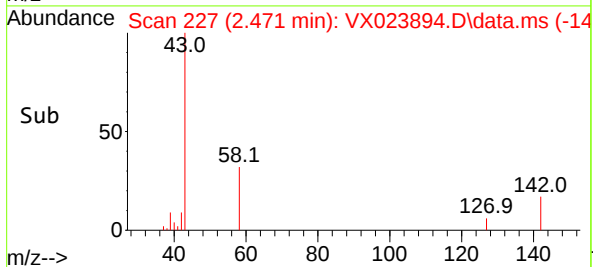
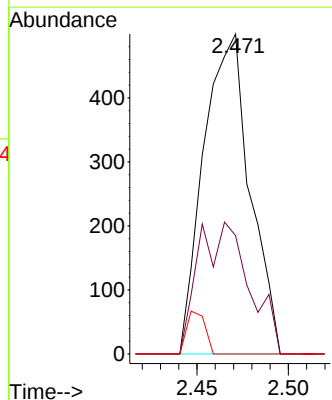
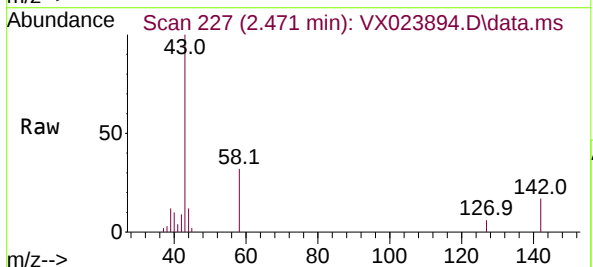
Instrument :
MSVOA_X
ClientSampled :

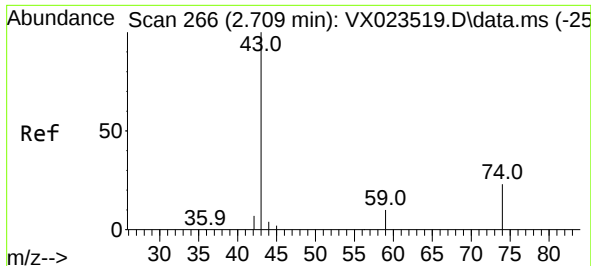
Tgt Ion: 74 Resp: 1263
Ion Ratio Lower Upper
74 100
45 714.4 19.9 179.1#



#11
Methyl Iodide
Concen: 0.340 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.018 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion:142 Resp: 882
Ion Ratio Lower Upper
142 100
127 37.0 23.6 71.0
141 0.0 7.1 21.3#

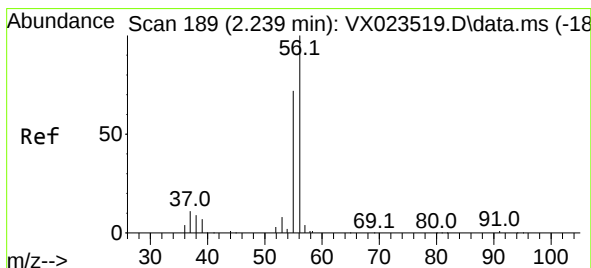
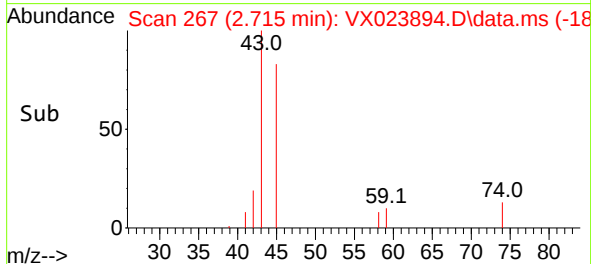
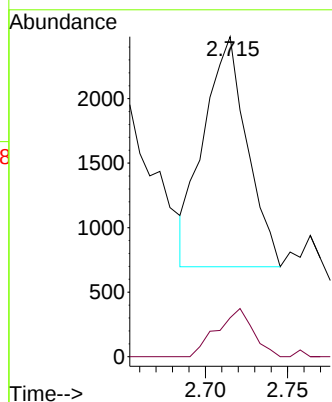
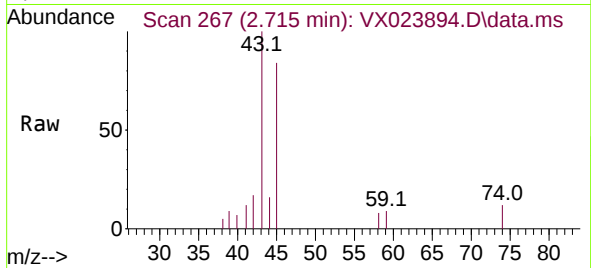




#12
Methyl Acetate
Concen: 1.188 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.006 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

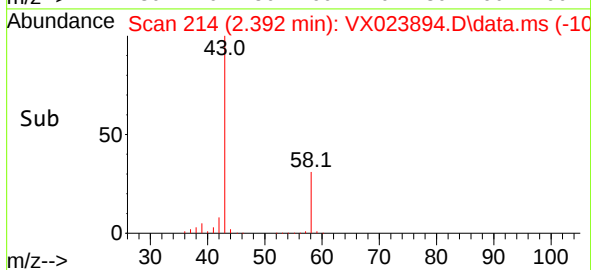
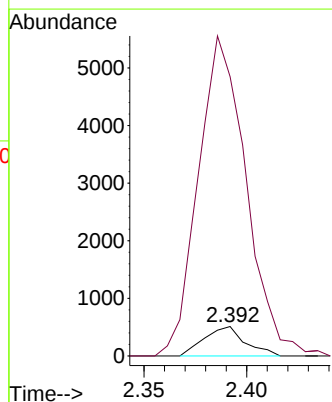
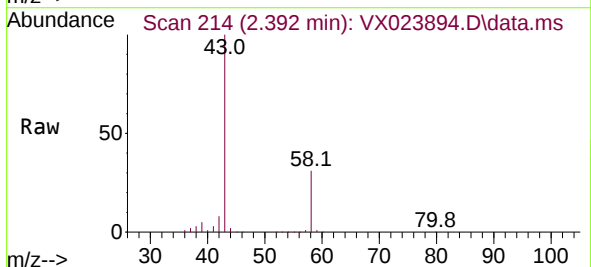
Instrument :
MSVOA_X
ClientSampled :

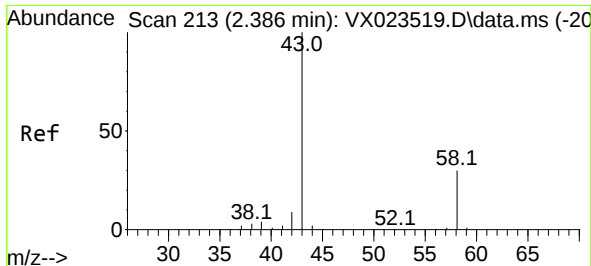
Tgt Ion: 43 Resp: 3269
Ion Ratio Lower Upper
43 100
74 19.1 18.2 27.2



#13
Acrolein
Concen: 2.330 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.153 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 56 Resp: 706
Ion Ratio Lower Upper
56 100
55 1278.3 59.5 89.3#

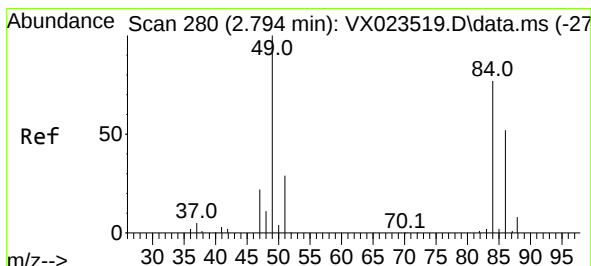
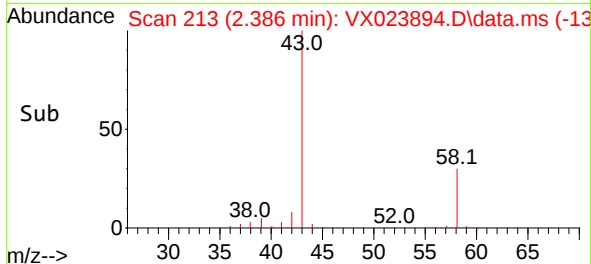
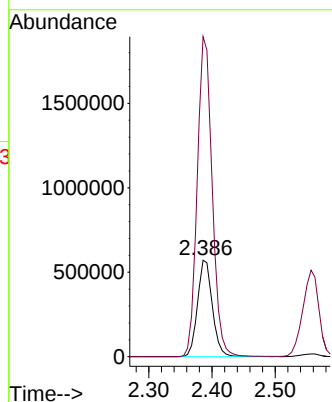
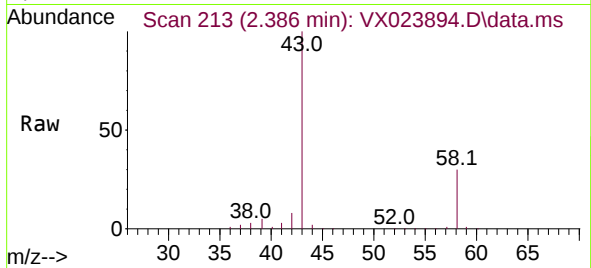




#15
Acetone
Concen: 2522.802 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

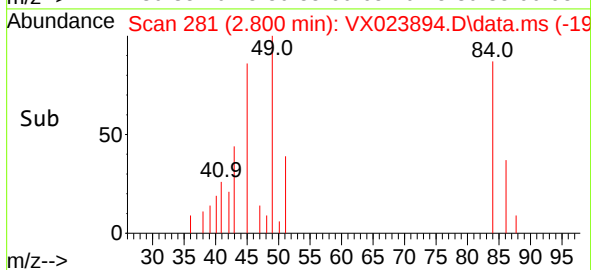
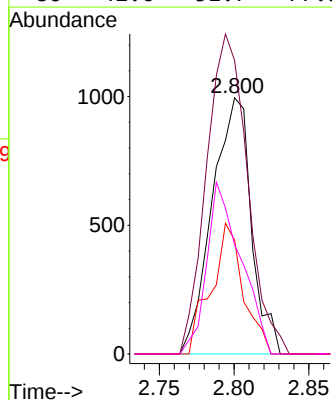
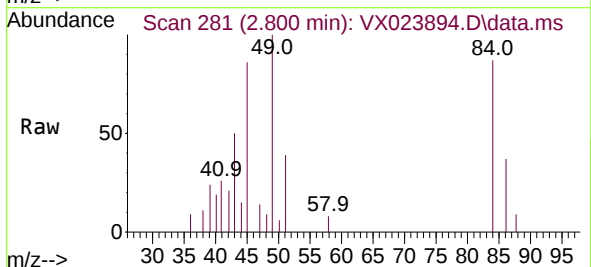
Instrument :
MSVOA_X
ClientSampleId :

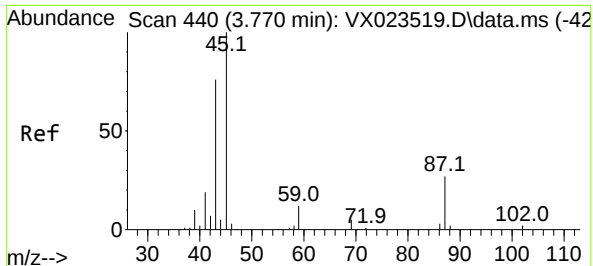
Tgt Ion: 58 Resp: 930844
Ion Ratio Lower Upper
58 100
43 331.9 266.6 400.0



#18
Methylene Chloride
Concen: 0.834 ug/l
RT: 2.800 min Scan# 281
Delta R.T. 0.006 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 84 Resp: 1810
Ion Ratio Lower Upper
84 100
49 114.6 104.3 156.5
51 44.5 30.3 45.5
86 42.6 51.7 77.5#

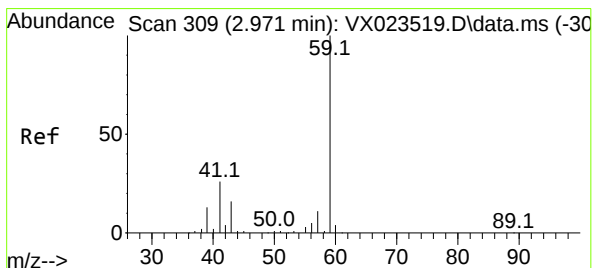
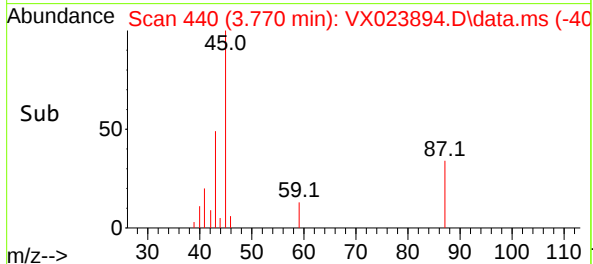
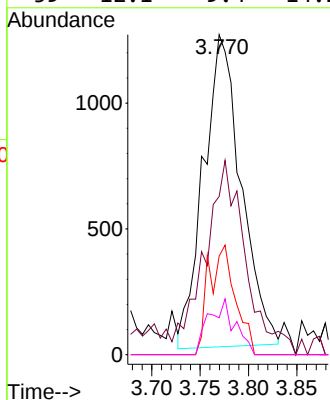
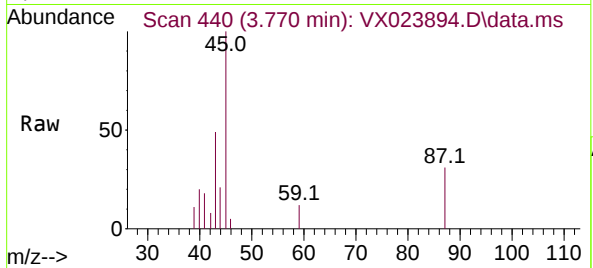




#20
Diisopropyl ether
Concen: 0.493 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

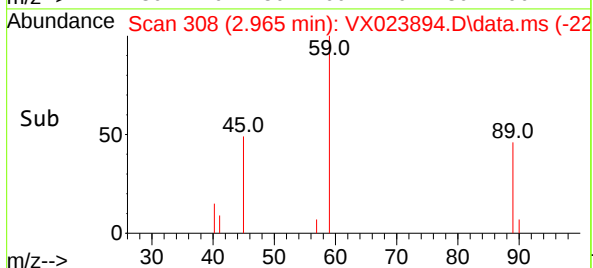
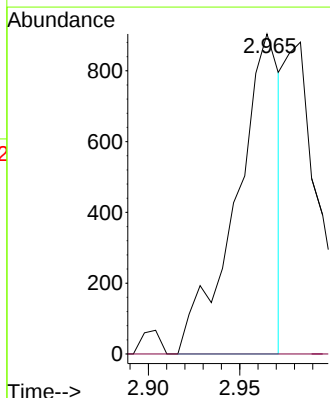
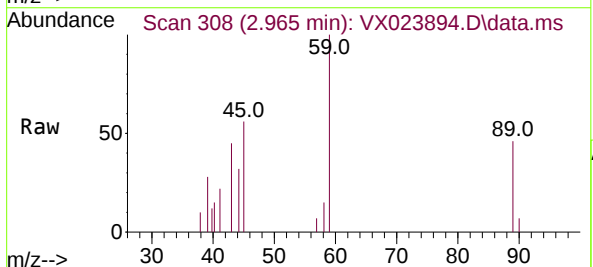
Instrument :
MSVOA_X
ClientSampled :

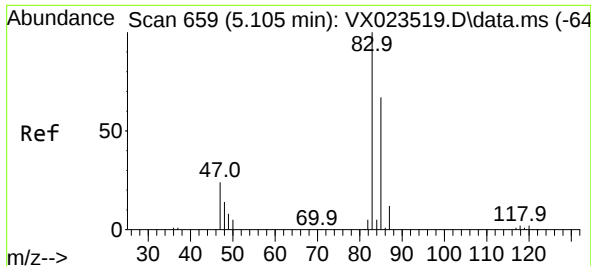
Tgt Ion:	45	Resp:	3357
Ion	Ratio	Lower	Upper
45	100		
43	44.3	63.8	95.6#
87	32.4	21.8	32.6
59	12.1	9.4	14.2



#23
tert-Butyl Alcohol
Concen: 2.724 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.006 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion:	59	Resp:	1505
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#





#25

Chloroform

Concen: 0.821 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.006 min

Lab File: VX023894.D

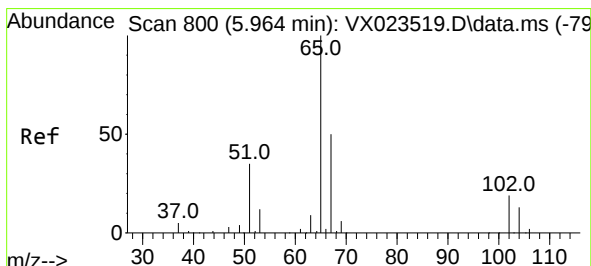
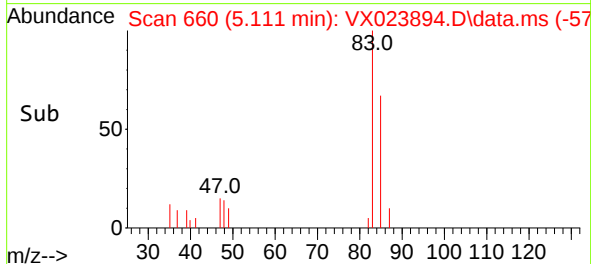
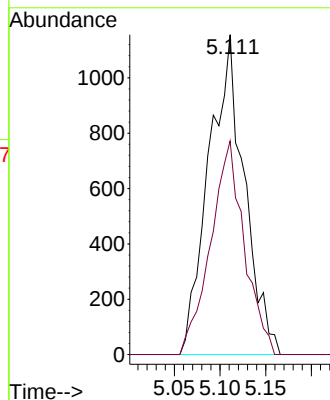
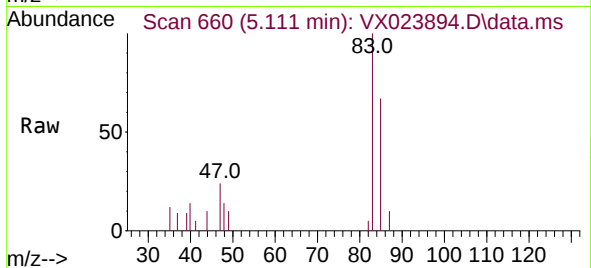
Acq: 20 Aug 2021 21:52

Tgt Ion: 83 Resp: 3125

Ion Ratio Lower Upper

83 100

85 66.8 51.8 77.8



#27

1,2-Dichloroethane-d4

Concen: 31.411 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX023894.D

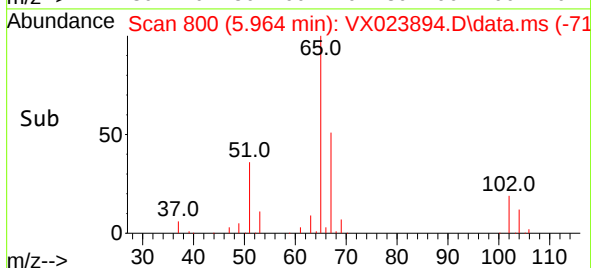
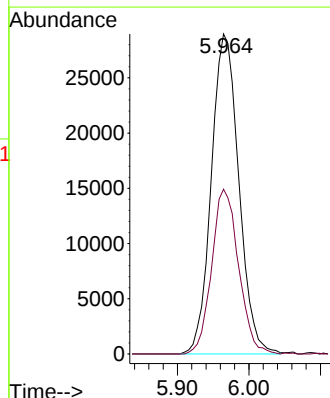
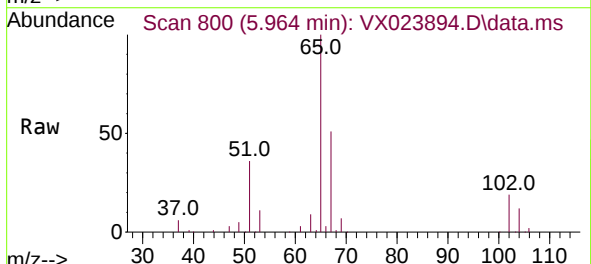
Acq: 20 Aug 2021 21:52

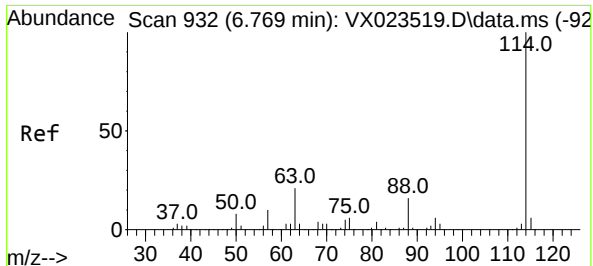
Tgt Ion: 65 Resp: 77372

Ion Ratio Lower Upper

65 100

67 50.3 42.4 63.6

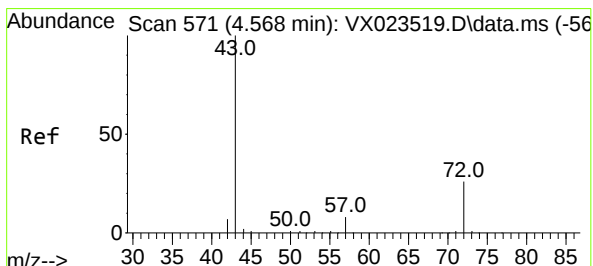
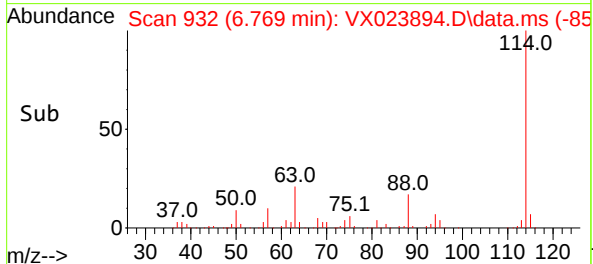
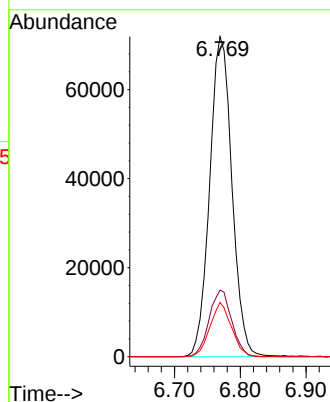
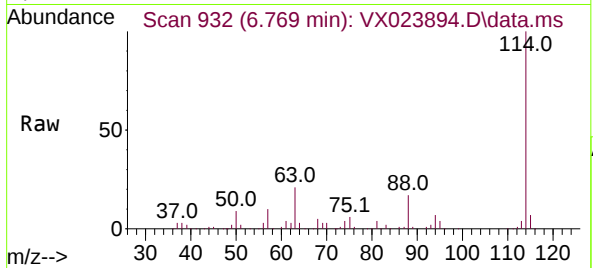




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

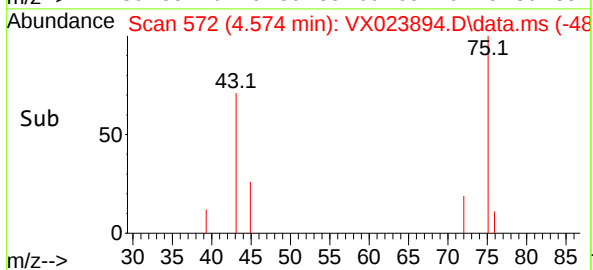
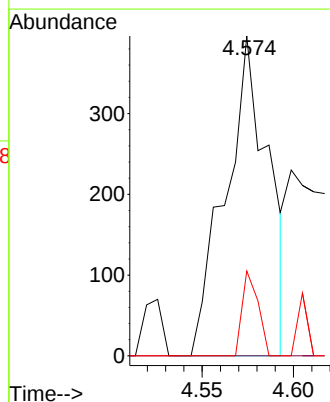
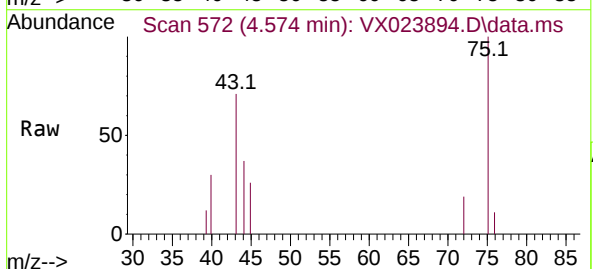
Instrument :
MSVOA_X
ClientSampled :

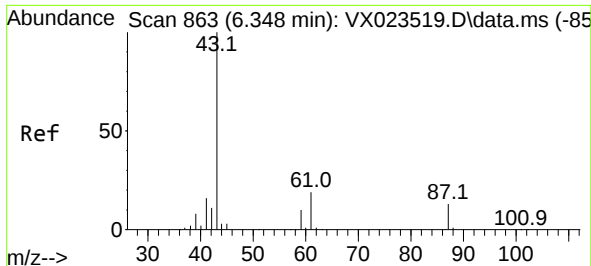
Tgt Ion:114 Resp: 169691
Ion Ratio Lower Upper
114 100
63 21.0 16.4 24.6
88 16.2 12.7 19.1



#30
2-Butanone
Concen: 0.365 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 43 Resp: 646
Ion Ratio Lower Upper
43 100
57 0.0 6.6 9.8#
72 9.8 21.0 31.4#

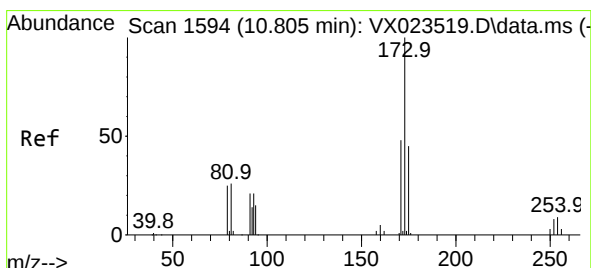
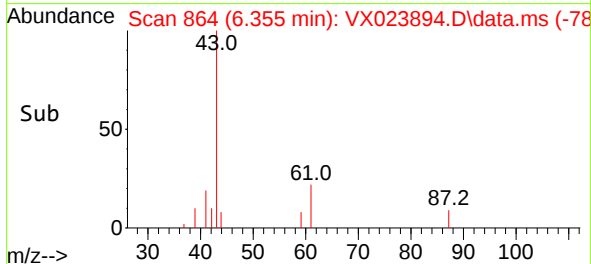
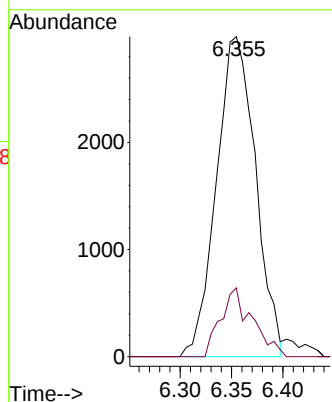
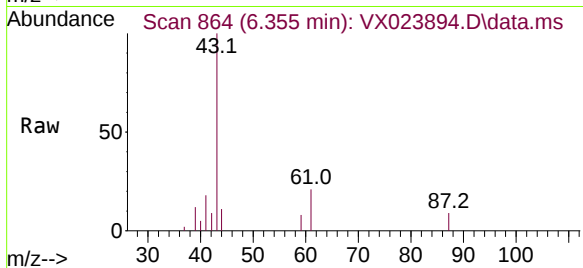




#44
Isopropyl Acetate
Concen: 1.513 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.006 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

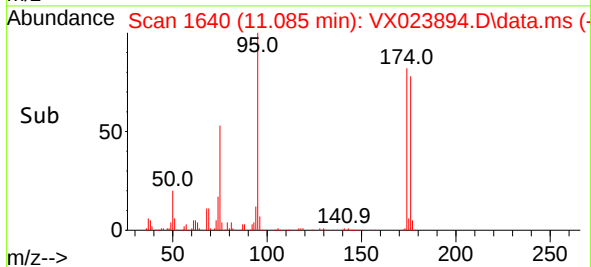
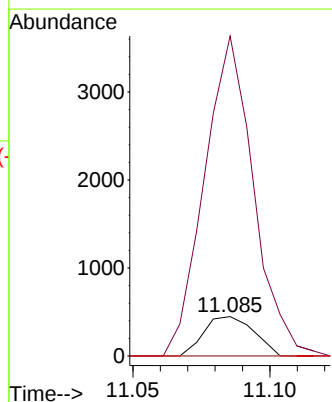
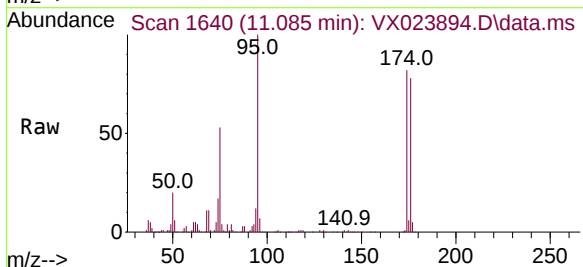
Instrument :
MSVOA_X
ClientSampled :

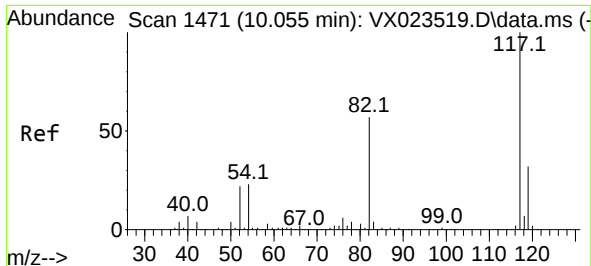
Tgt Ion: 43 Resp: 7915
Ion Ratio Lower Upper
43 100
61 11.4 15.4 23.2#



#56
Bromoform
Concen: 0.370 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.281 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion:173 Resp: 570
Ion Ratio Lower Upper
173 100
175 797.7 38.4 57.6#
254 0.0 7.3 10.9#

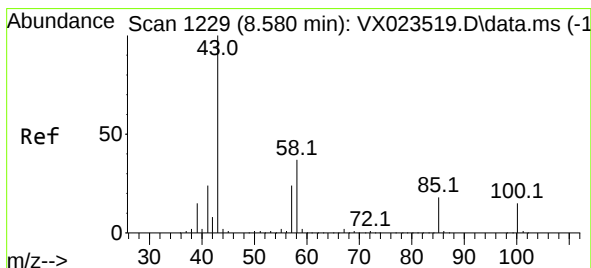
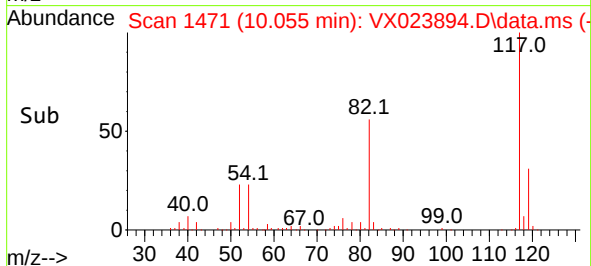
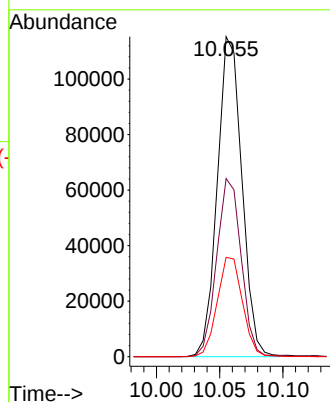
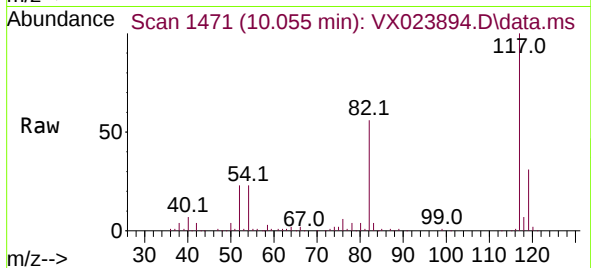




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

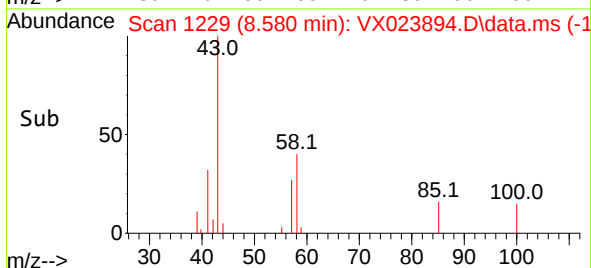
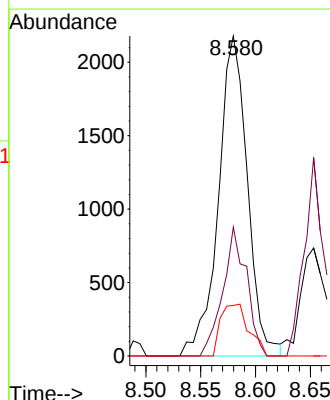
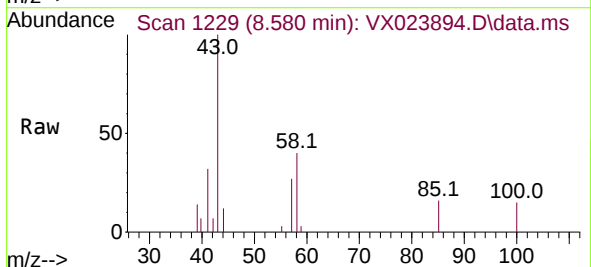
Instrument :
MSVOA_X
ClientSampled :

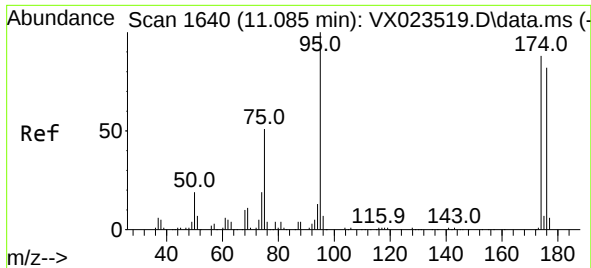
Tgt Ion:117 Resp: 155726
Ion Ratio Lower Upper
117 100
82 55.4 45.0 67.4
119 31.9 26.2 39.2



#58
4-Methyl-2-Pentanone
Concen: 1.195 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 43 Resp: 4012
Ion Ratio Lower Upper
43 100
58 32.9 30.5 45.7
85 15.6 14.0 21.0

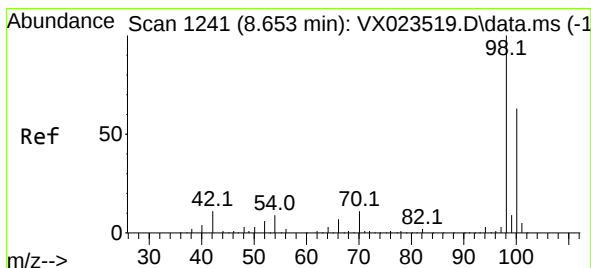
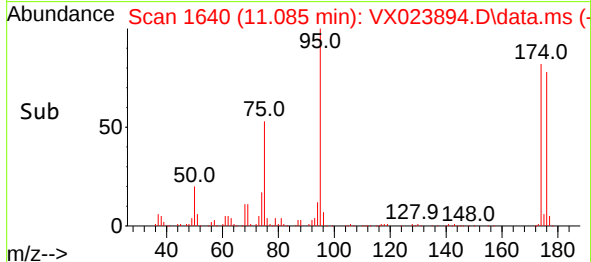
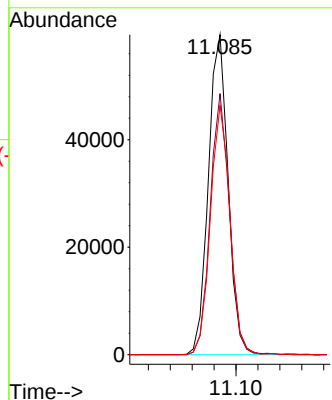
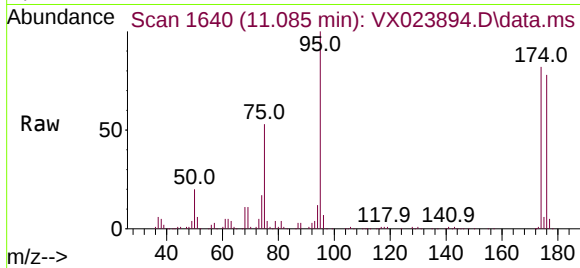




#60
4-Bromofluorobenzene
Concen: 29.165 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

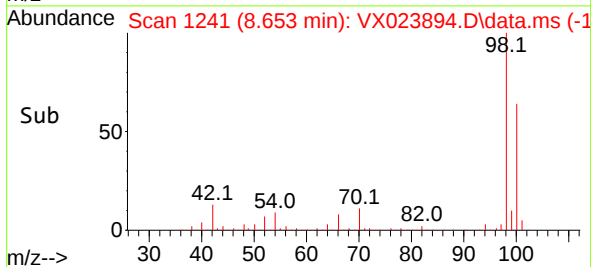
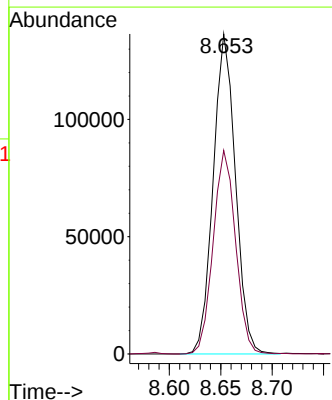
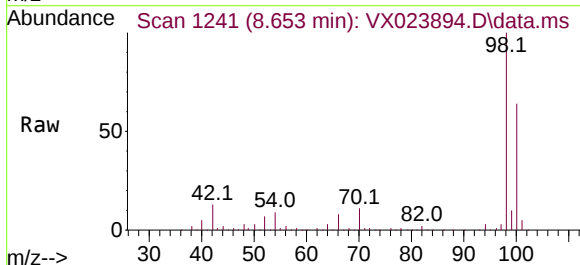
Instrument :
MSVOA_X
ClientSampled :

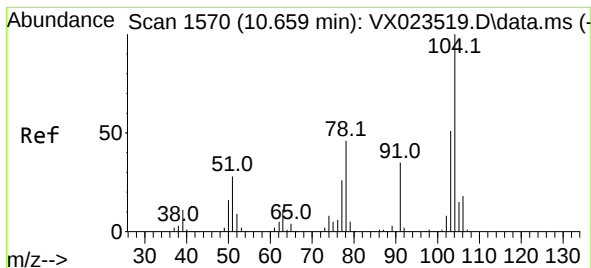
Tgt Ion: 95 Resp: 74391
Ion Ratio Lower Upper
95 100
174 79.4 63.5 95.3
176 77.1 63.0 94.4



#63
Toluene-d8
Concen: 29.304 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 98 Resp: 205377
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0





#69

Styrene

Concen: 0.654 ug/l

RT: 10.659 min Scan# 1570

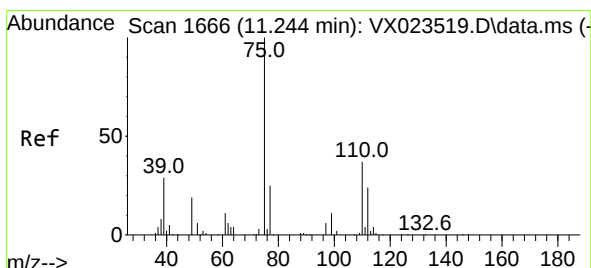
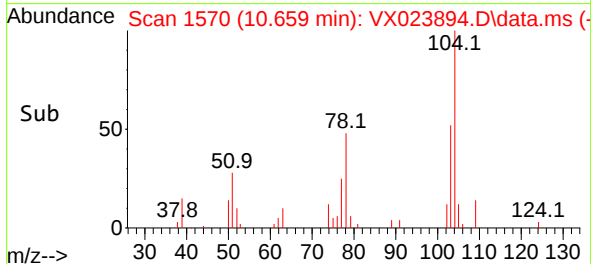
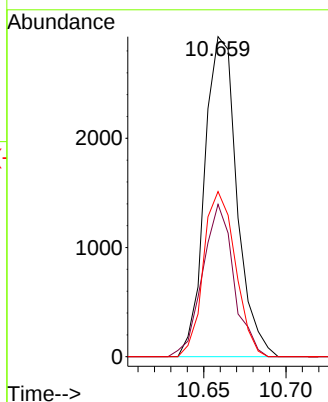
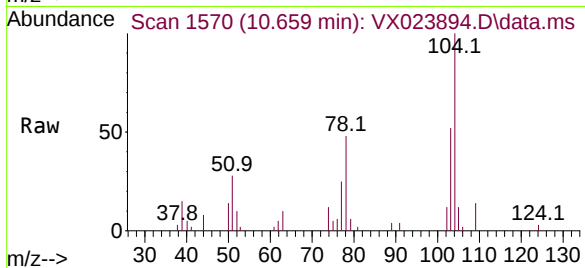
Delta R.T. 0.000 min

Lab File: VX023894.D

Acq: 20 Aug 2021 21:52

Tgt Ion:	104	Resp:	3997
Ion Ratio	Lower	Upper	
104	100		
78	46.1	41.4	62.0
103	51.1	44.2	66.4

Instrument :
MSVOA_X
ClientSampled :



#72

1,2,3-Trichloropropane

Concen: 13.670 ug/l

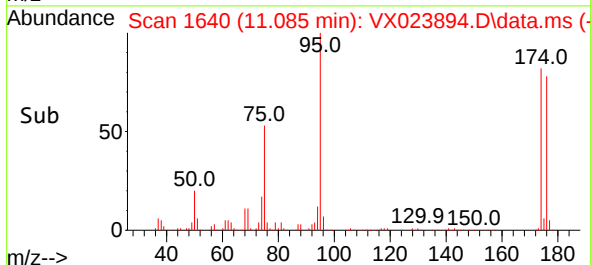
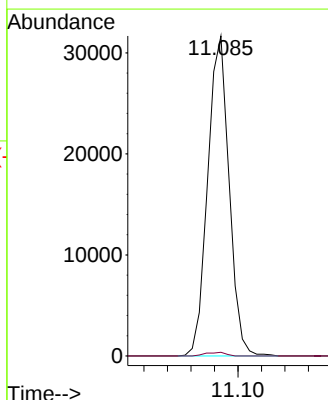
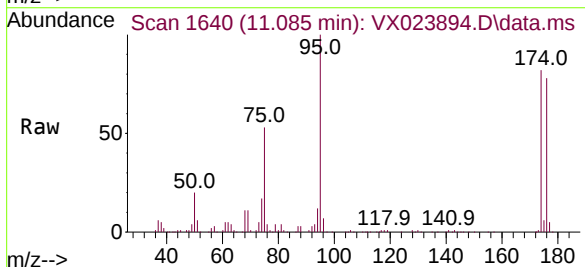
RT: 11.085 min Scan# 1640

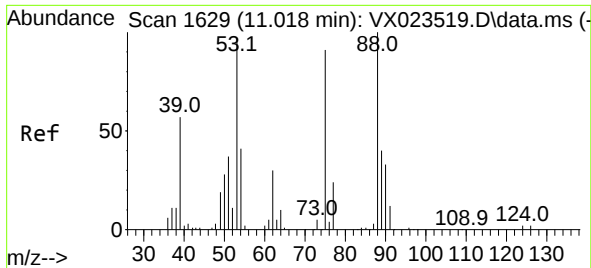
Delta R.T. -0.158 min

Lab File: VX023894.D

Acq: 20 Aug 2021 21:52

Tgt Ion:	75	Resp:	40060
Ion Ratio	Lower	Upper	
75	100		
77	1.1	0.0	77.4

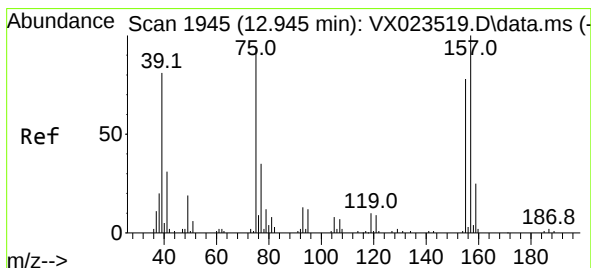
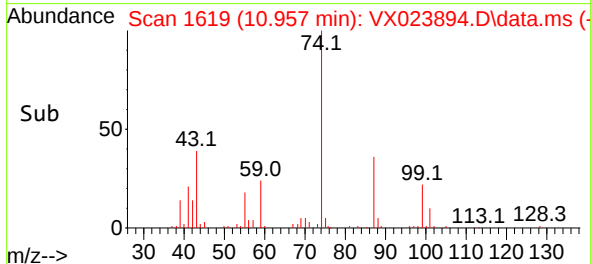
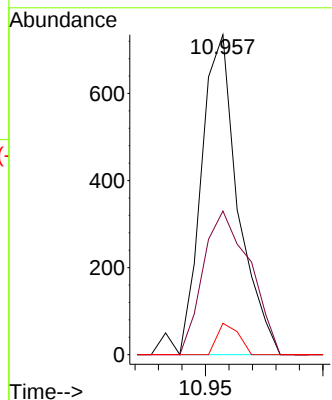
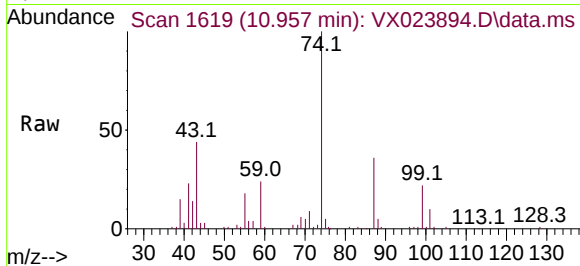




#77
t-1,4-Dichloro-2-butene
Concen: 0.759 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.061 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Instrument :
MSVOA_X
ClientSampled :

Tgt Ion: 75 Resp: 794
Ion Ratio Lower Upper
75 100
53 44.9 53.9 161.7#
89 9.8 22.9 68.7#



#88
1,2-Dibromo-3-Chloropropane
Concen: 1.449 ug/l
RT: 12.872 min Scan# 1933
Delta R.T. -0.073 min
Lab File: VX023894.D
Acq: 20 Aug 2021 21:52

Tgt Ion: 75 Resp: 992
Ion Ratio Lower Upper
75 100
155 0.0 67.4 101.2#
157 0.0 85.8 128.8#

