

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051623\
 Data File : VX035700.D
 Acq On : 16 May 2023 18:46
 Operator : JC/MD
 Sample : 02615-08RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-3

Quant Time: May 17 05:34:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051123W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 11 13:57:54 2023
 Response via : Initial Calibration

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

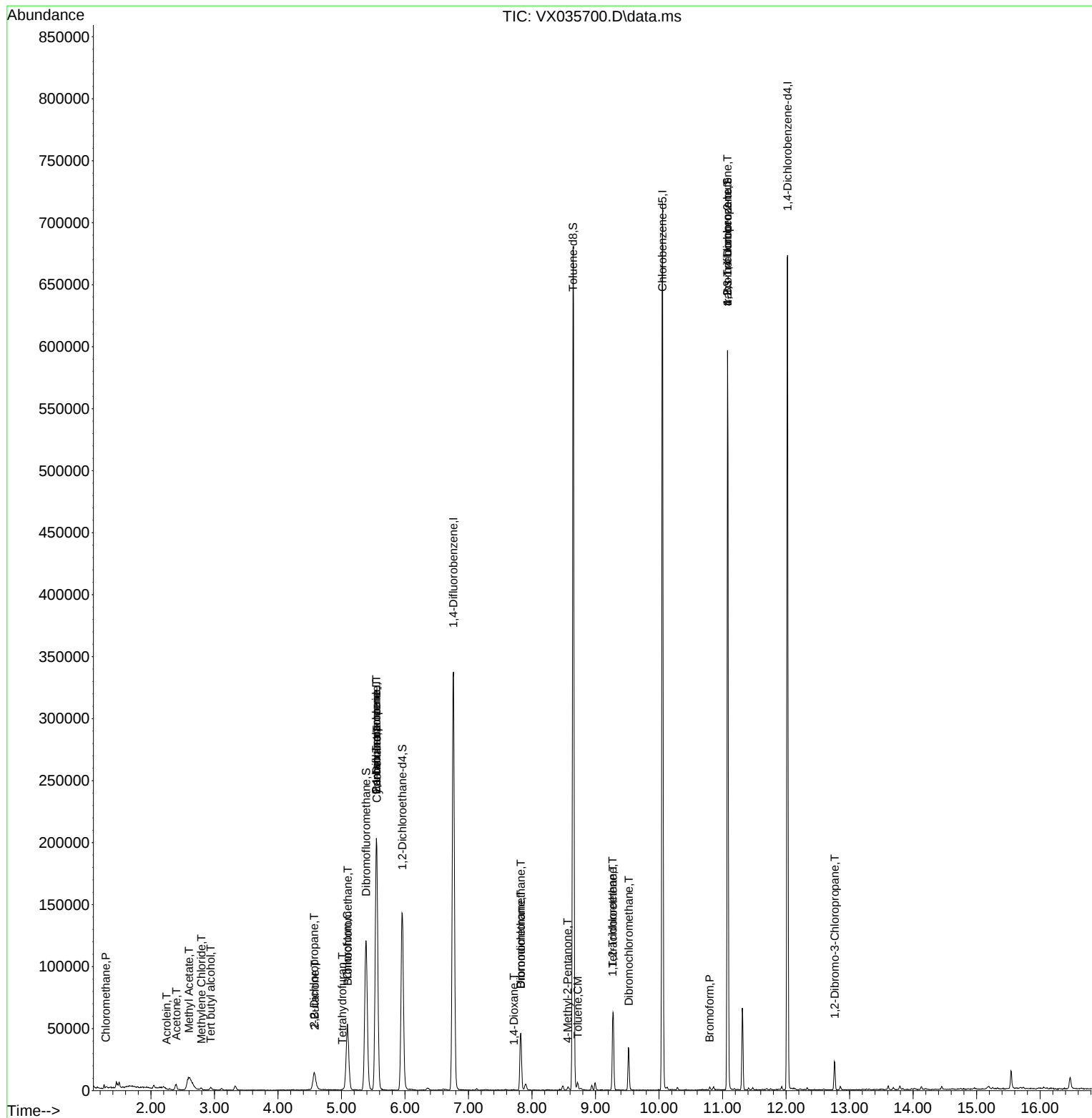
Internal Standards						
1) Pentafluorobenzene	5.550	168	172832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	320820	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	289926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	129219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	148487	49.247	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	98.500%		
35) Dibromofluoromethane	5.385	113	105574	48.796	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.600%		
50) Toluene-d8	8.647	98	390088	48.804	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.600%		
62) 4-Bromofluorobenzene	11.079	95	157706	49.003	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.000%		
Target Compounds					Qvalue	
3) Chloromethane	1.288	50	1069	0.391	ug/l #	67
11) Tert butyl alcohol	2.941	59	1330	2.500	ug/l #	73
13) Acrolein	2.246	56	187	0.296	ug/l #	30
16) Acetone	2.398	43	5758	4.443	ug/l	92
18) Methyl Acetate	2.599	43	7501	1.570	ug/l #	53
20) Methylene Chloride	2.794	84	586	0.250	ug/l #	79
25) 2-Butanone	4.580	43	2355	1.313	ug/l #	72
26) 2,2-Dichloropropane	4.568	77	1138	0.311	ug/l #	53
28) Bromochloromethane	5.099	49	5264	2.710	ug/l #	15
29) Tetrahydrofuran	5.013	42	424	0.376	ug/l #	69
30) Chloroform	5.093	83	59532	13.455	ug/l	94
31) Cyclohexane	5.556	56	4924	1.293	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	16750	4.905	ug/l #	50
38) Carbon Tetrachloride	5.550	117	19502	6.028	ug/l #	15
46) Dibromomethane	7.824	93	987	0.570	ug/l #	5
47) Bromodichloromethane	7.824	83	29587	8.838	ug/l	100
49) 1,4-Dioxane	7.714	88	261	5.838	ug/l #	66
51) 4-Methyl-2-Pentanone	8.561	43	2665	0.745	ug/l #	46
52) Toluene	8.720	92	1927	0.320	ug/l	100
55) 1,1,2-Trichloroethane	9.269	97	669	0.282	ug/l #	15
60) Dibromochloromethane	9.525	129	9137	4.047	ug/l	100
64) Tetrachloroethene	9.275	164	750	0.384	ug/l #	84
71) Bromoform	10.799	173	790	0.537	ug/l #	96
76) 1,2,3-Trichloropropane	11.079	75	86412	27.339	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	86412	88.110	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.768	75	683	0.868	ug/l #	7

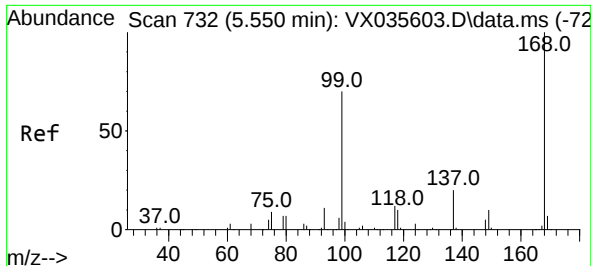
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

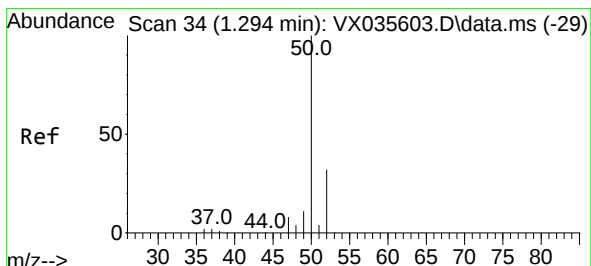
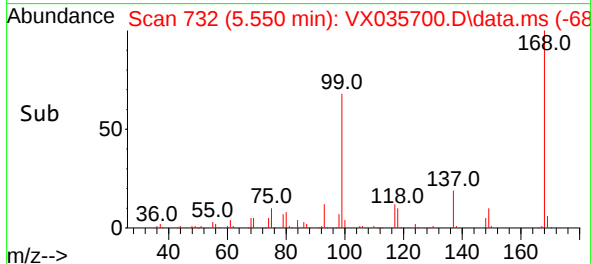
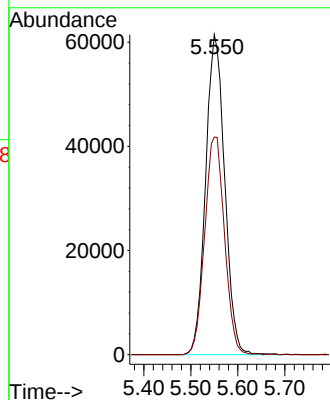
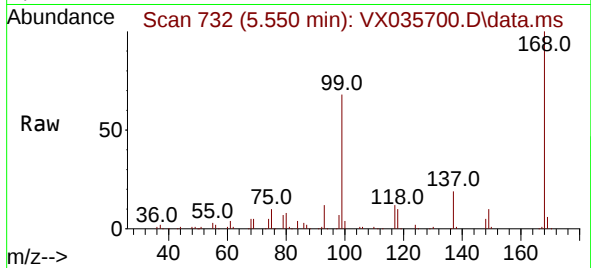




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

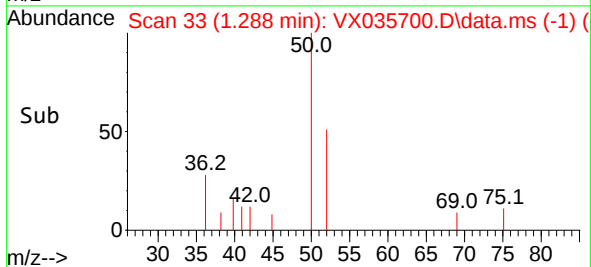
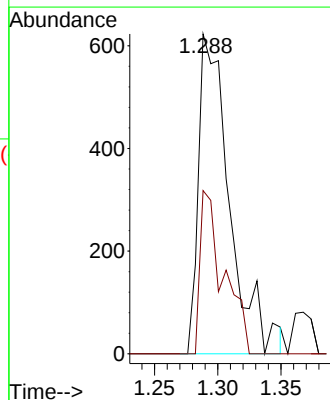
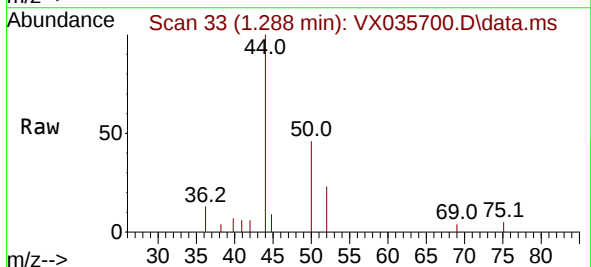
Instrument :
MSVOA_X
ClientSampleId :
002-3

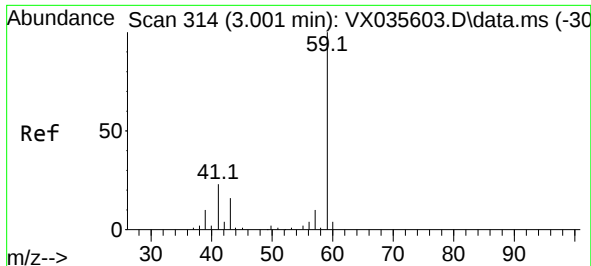
Tgt Ion:168 Resp: 172832
Ion Ratio Lower Upper
168 100
99 68.0 45.7 68.5



#3
Chloromethane
Concen: 0.391 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 50 Resp: 1069
Ion Ratio Lower Upper
50 100
52 51.0 25.9 38.9#

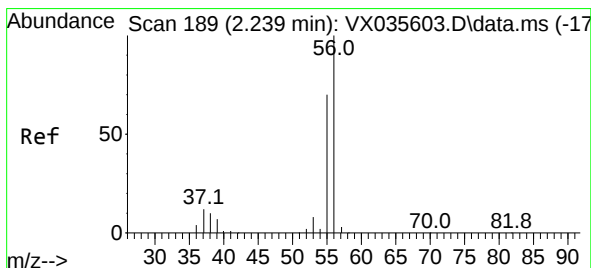
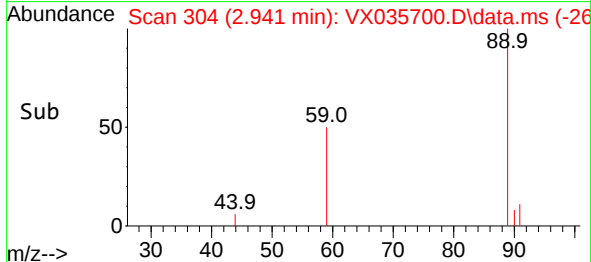
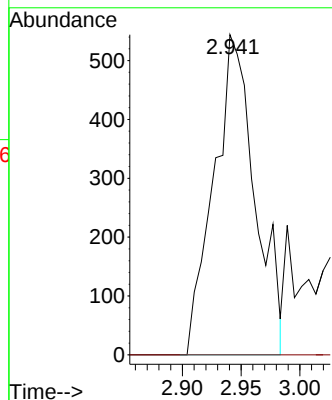
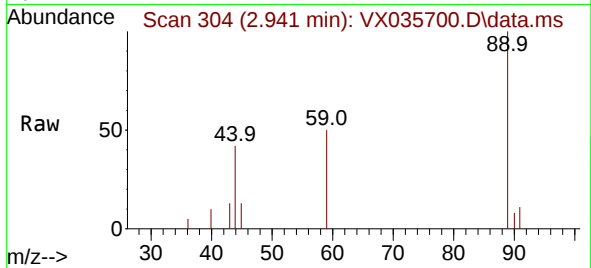




#11
Tert butyl alcohol
Concen: 2.500 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.060 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

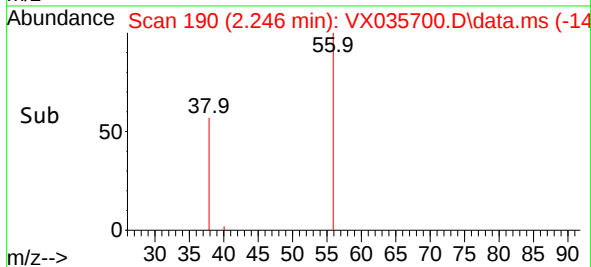
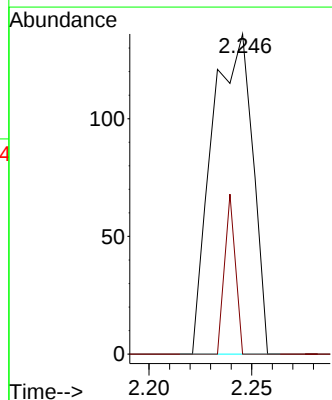
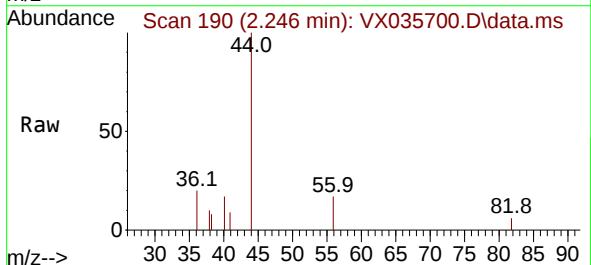
Instrument :
MSVOA_X
ClientSampleId :
002-3

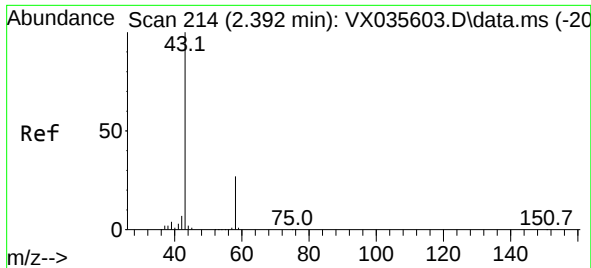
Tgt Ion: 59 Resp: 1330
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: 0.296 ug/l
RT: 2.246 min Scan# 190
Delta R.T. 0.007 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 56 Resp: 187
Ion Ratio Lower Upper
56 100
55 13.4 56.6 85.0#

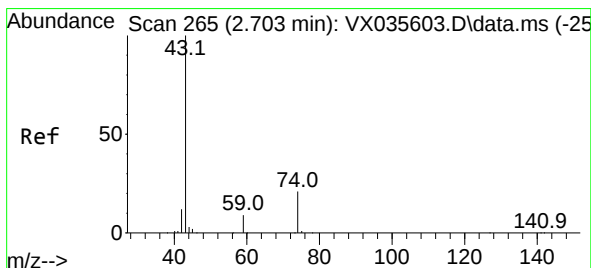
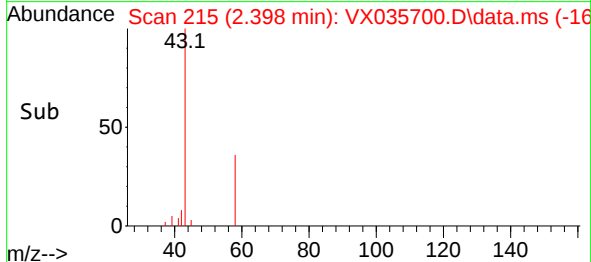
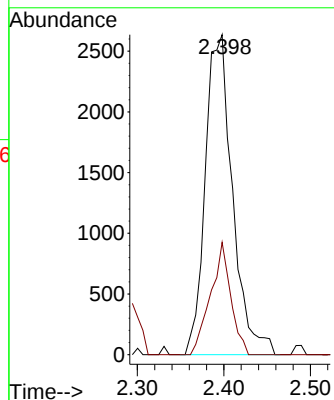
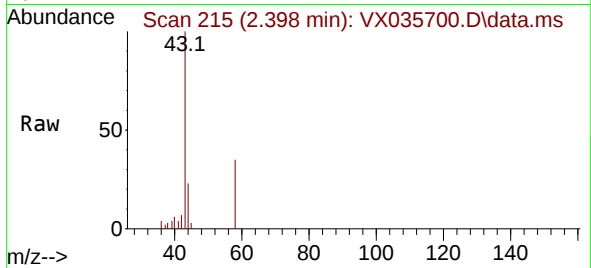




#16
Acetone
Concen: 4.443 ug/l
RT: 2.398 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

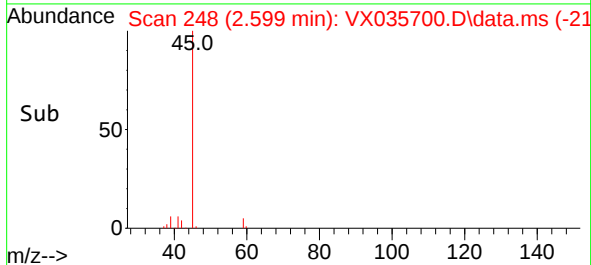
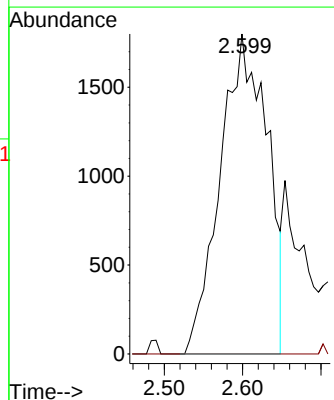
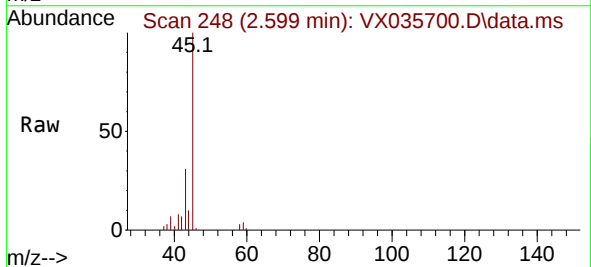
Instrument :
MSVOA_X
ClientSampleId :
002-3

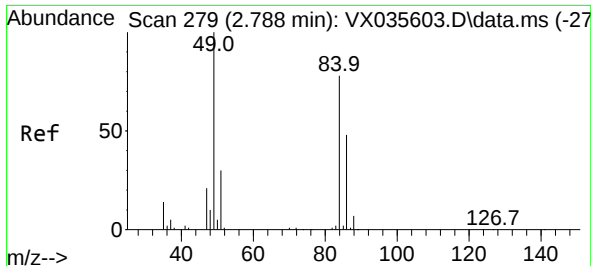
Tgt Ion: 43 Resp: 5758
Ion Ratio Lower Upper
43 100
58 35.1 24.7 37.1



#18
Methyl Acetate
Concen: 1.570 ug/l
RT: 2.599 min Scan# 248
Delta R.T. -0.104 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 43 Resp: 7501
Ion Ratio Lower Upper
43 100
74 0.0 18.3 27.5#

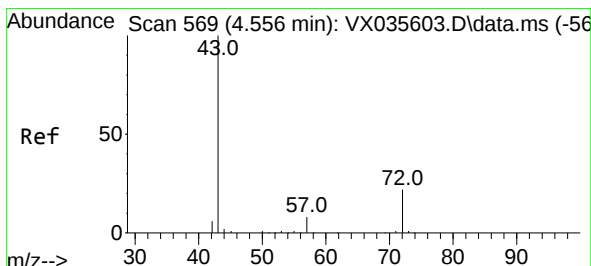
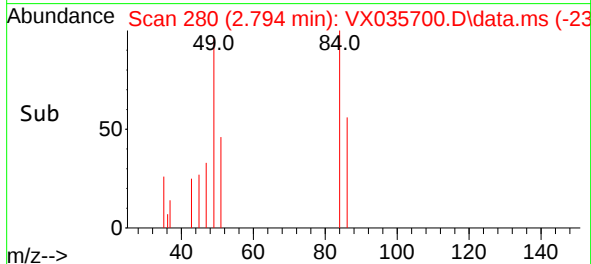
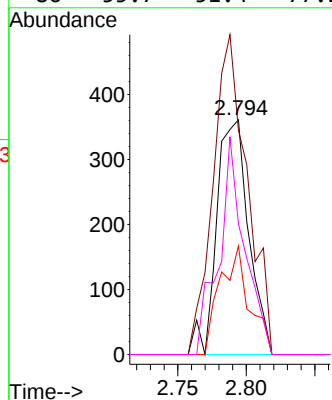
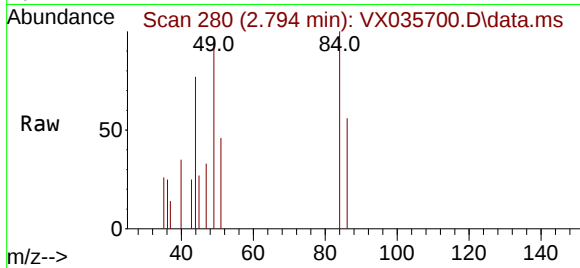




#20
Methylene Chloride
Concen: 0.250 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

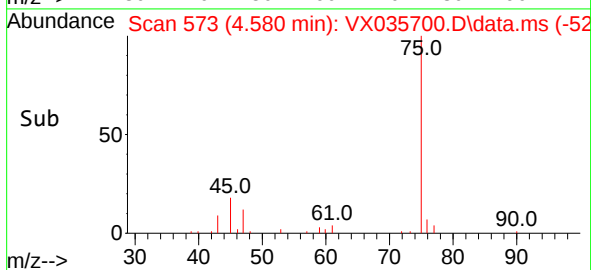
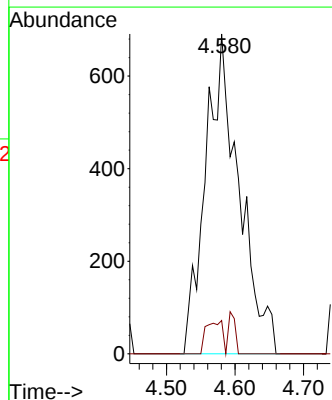
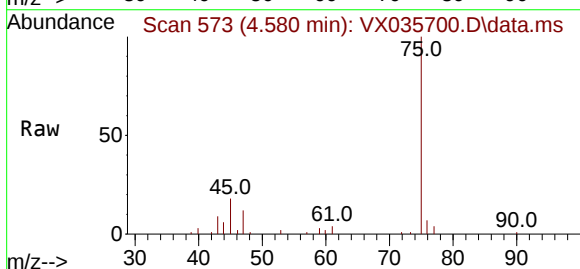
Instrument :
MSVOA_X
ClientSampleId :
002-3

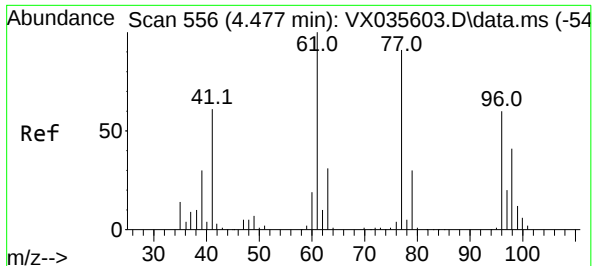
Tgt Ion:	84	Resp:	586
Ion	Ratio	Lower	Upper
84	100		
49	95.6	103.8	155.8#
51	46.3	31.8	47.8
86	55.7	51.4	77.2



#25
2-Butanone
Concen: 1.313 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.024 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion:	43	Resp:	2355
Ion	Ratio	Lower	Upper
43	100		
72	10.4	19.3	28.9#





#26

2,2-Dichloropropane

Concen: 0.311 ug/l

RT: 4.568 min Scan# 511

Delta R.T. 0.091 min

Lab File: VX035700.D

Acq: 16 May 2023 18:46

Instrument :

MSVOA_X

ClientSampleId :

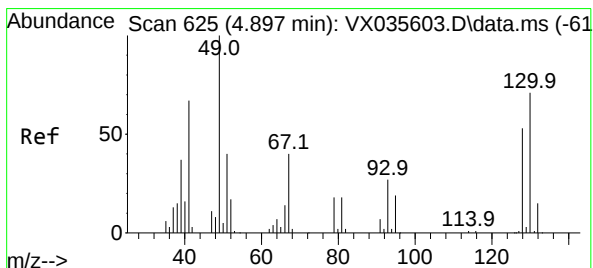
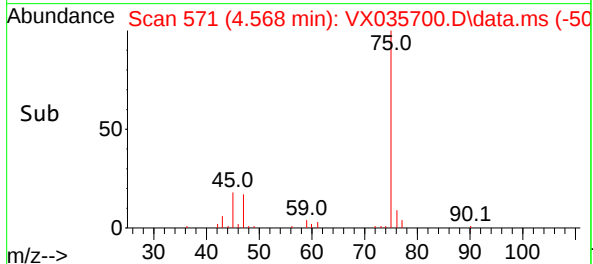
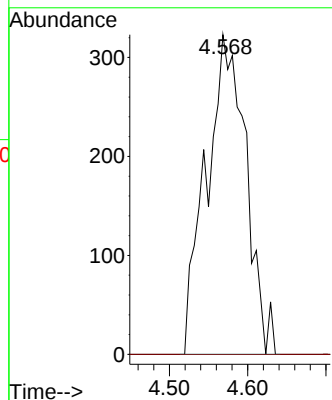
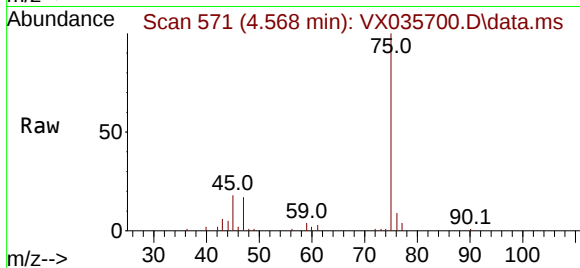
002-3

Tgt Ion: 77 Resp: 1138

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#



#28

Bromochloromethane

Concen: 2.710 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.202 min

Lab File: VX035700.D

Acq: 16 May 2023 18:46

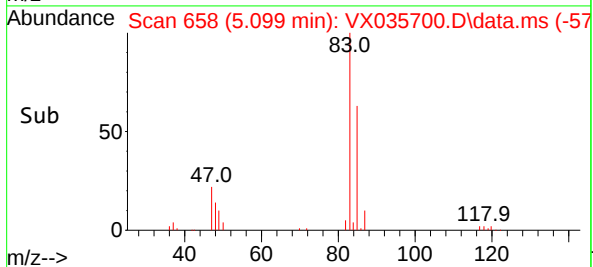
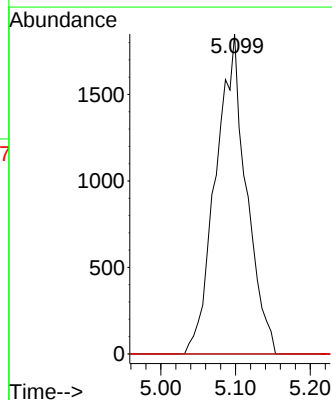
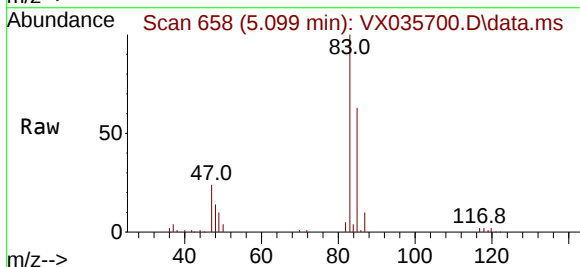
Tgt Ion: 49 Resp: 5264

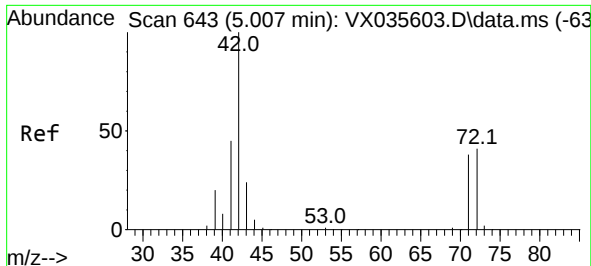
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 58.2 87.2#





#29

Tetrahydrofuran

Concen: 0.376 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX035700.D

Acq: 16 May 2023 18:46

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MSVOA_X

ClientSampleId :

002-3

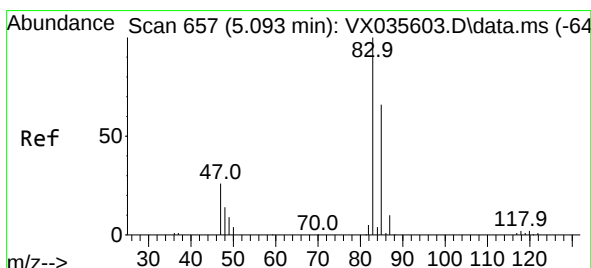
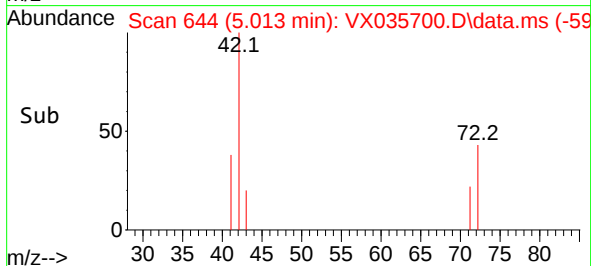
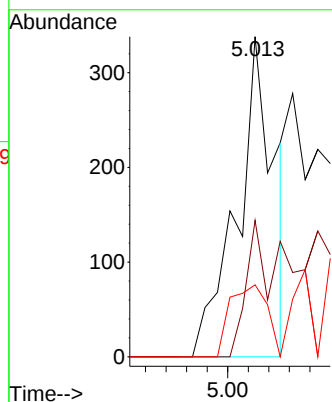
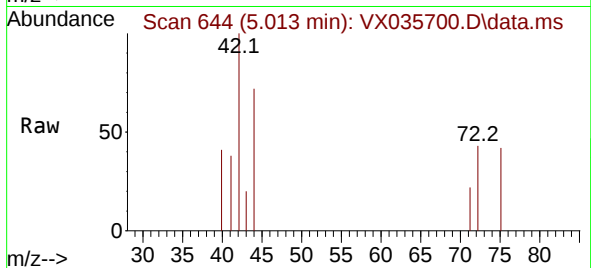
Tgt Ion: 42 Resp: 424

Ion Ratio Lower Upper

42 100

72 21.9 34.5 51.7#

71 22.4 32.1 48.1#



#30

Chloroform

Concen: 13.455 ug/l

RT: 5.093 min Scan# 657

Delta R.T. -0.000 min

Lab File: VX035700.D

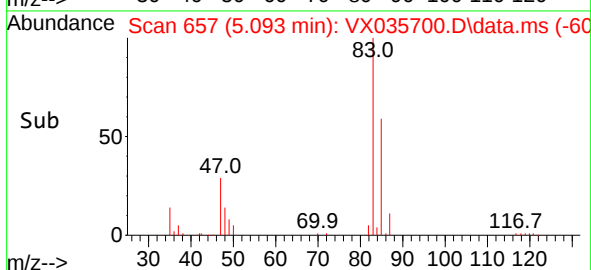
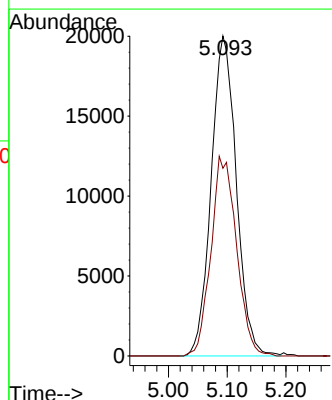
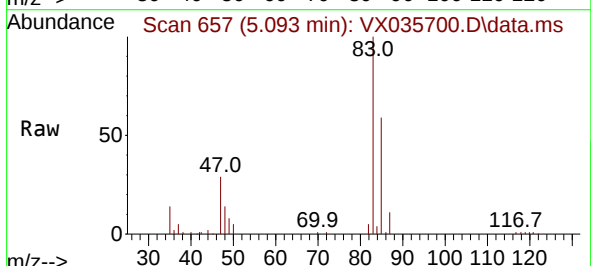
Acq: 16 May 2023 18:46

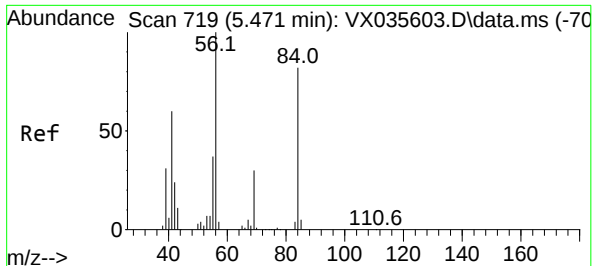
Tgt Ion: 83 Resp: 59532

Ion Ratio Lower Upper

83 100

85 58.6 50.6 76.0

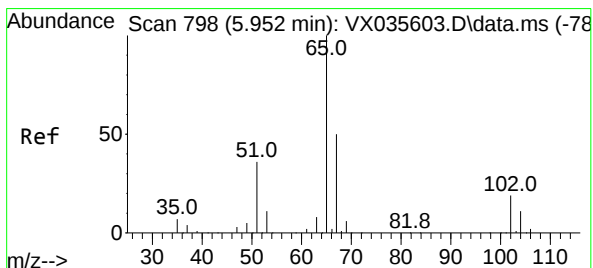
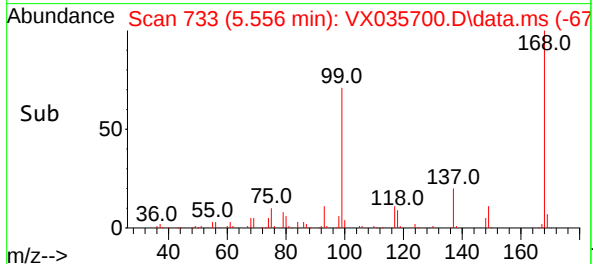
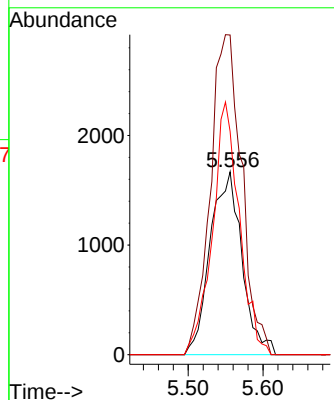
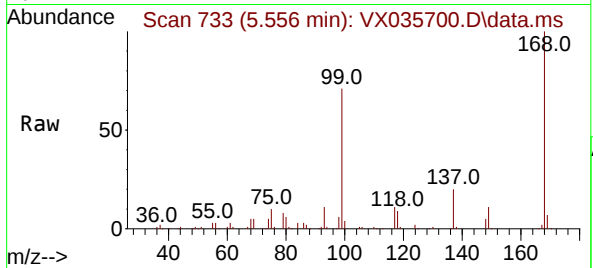




#31
Cyclohexane
Concen: 1.293 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

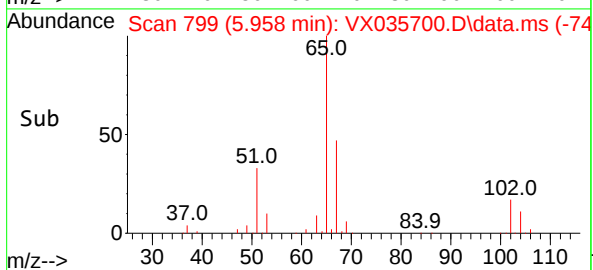
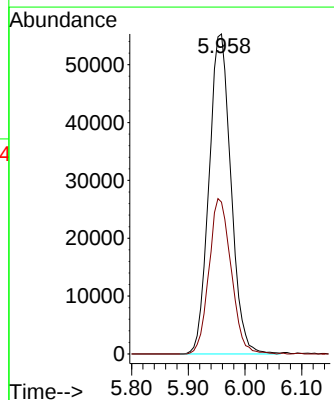
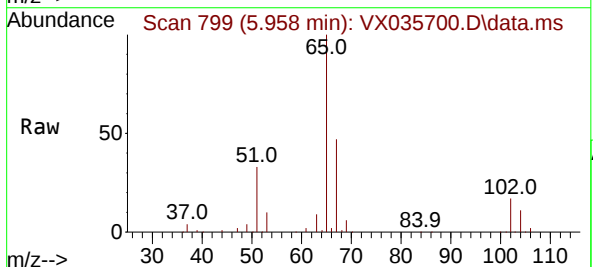
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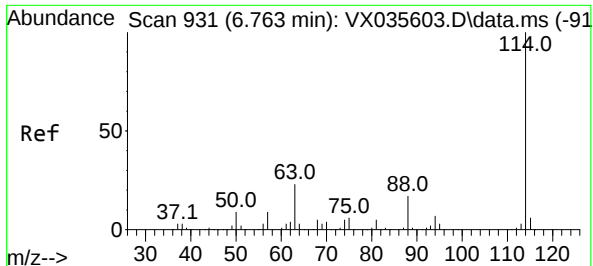
Tgt Ion: 56 Resp: 4924
Ion Ratio Lower Upper
56 100
69 174.8 23.7 35.5#
84 122.0 68.5 102.7#



#33
1,2-Dichloroethane-d4
Concen: 49.247 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 65 Resp: 148487
Ion Ratio Lower Upper
65 100
67 49.0 0.0 104.0

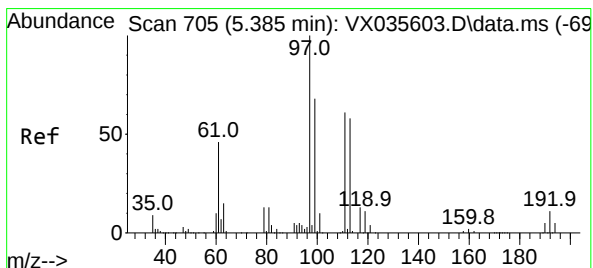
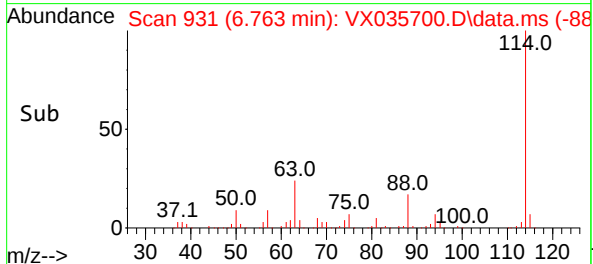
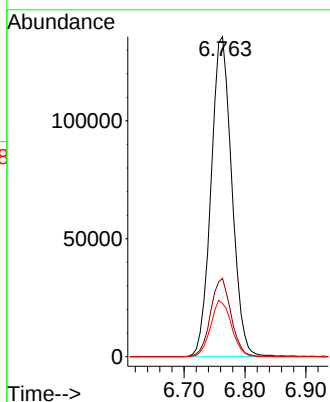
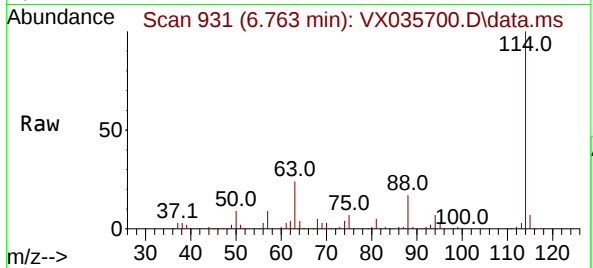




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

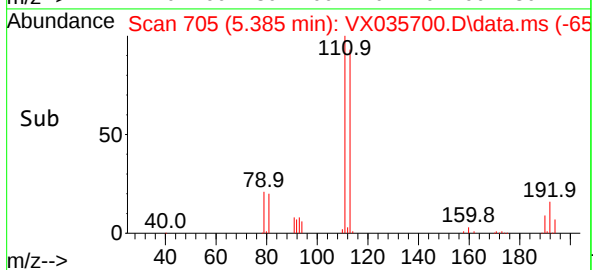
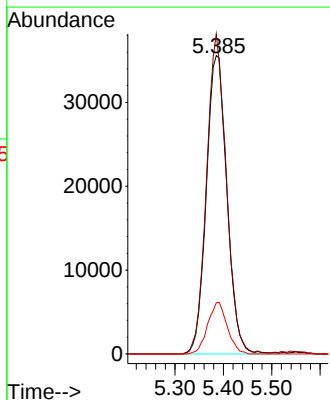
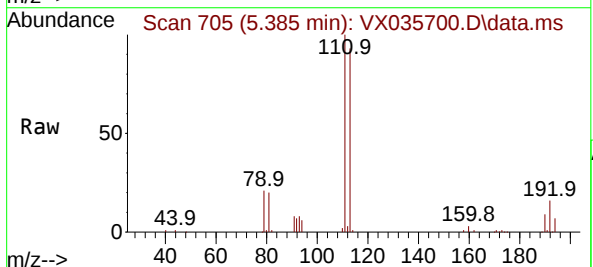
Instrument :
MSVOA_X
ClientSampleId :
002-3

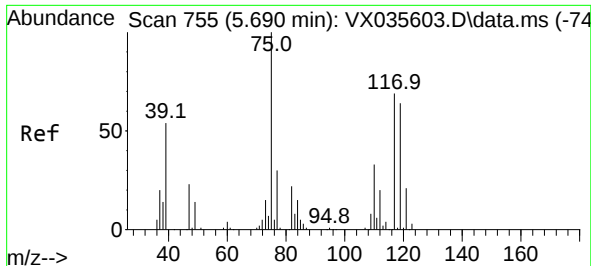
Tgt Ion:114 Resp: 320820
Ion Ratio Lower Upper
114 100
63 24.5 0.0 42.2
88 16.7 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.796 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion:113 Resp: 105574
Ion Ratio Lower Upper
113 100
111 102.5 83.7 125.5
192 16.4 15.4 23.2

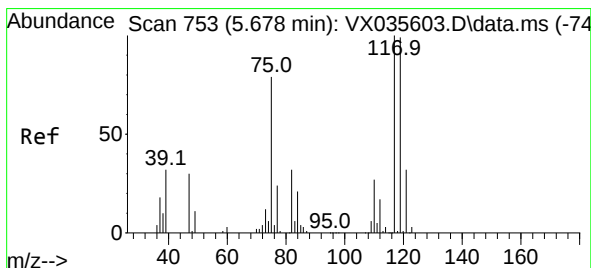
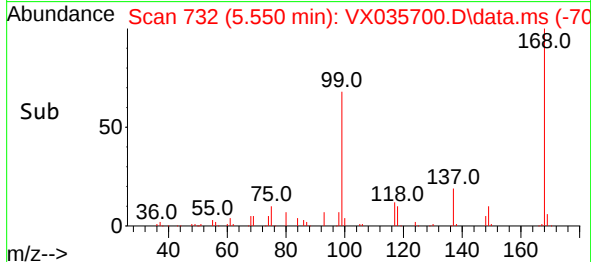
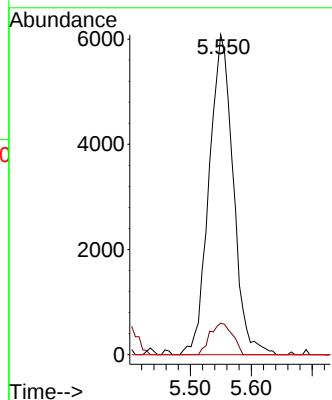
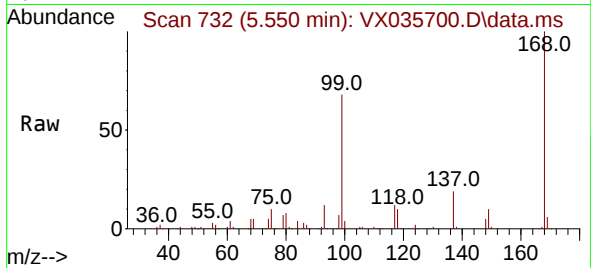




#36
1,1-Dichloropropene
Concen: 4.905 ug/l
RT: 5.550 min Scan# 712
Delta R.T. -0.140 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

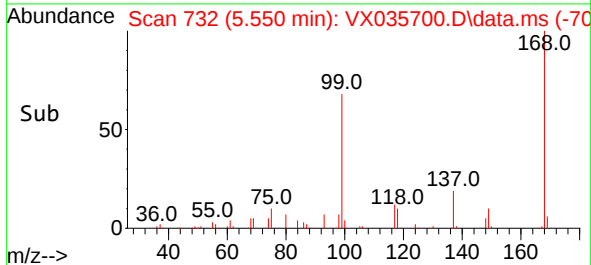
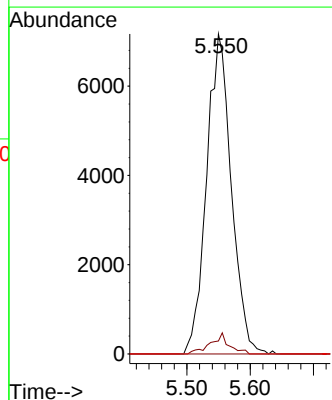
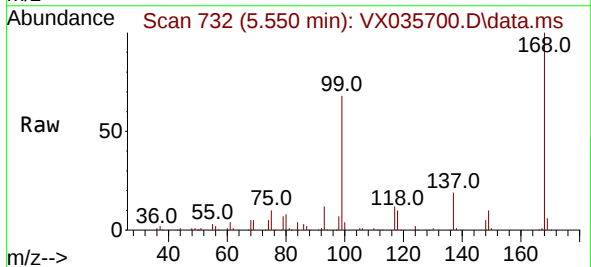
Instrument :
MSVOA_X
ClientSampleId :
002-3

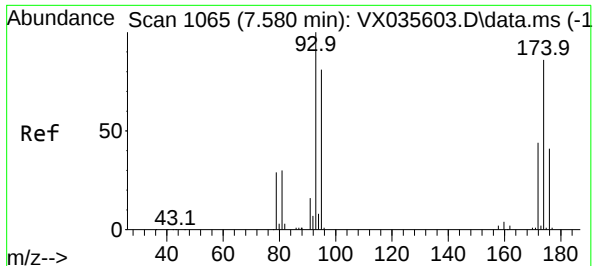
Tgt Ion: 75 Resp: 16750
Ion Ratio Lower Upper
75 100
110 9.2 17.5 52.5#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 6.028 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.128 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 117 Resp: 19502
Ion Ratio Lower Upper
117 100
119 4.0 76.6 114.8#
121 0.0 23.8 35.6#

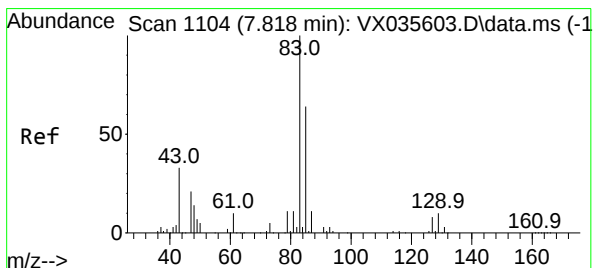
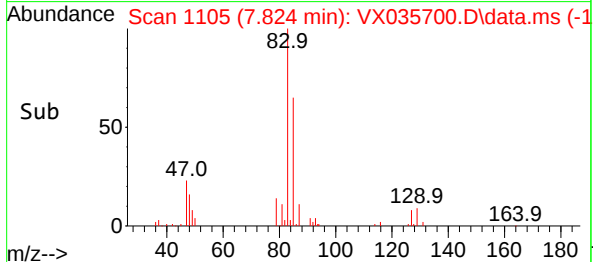
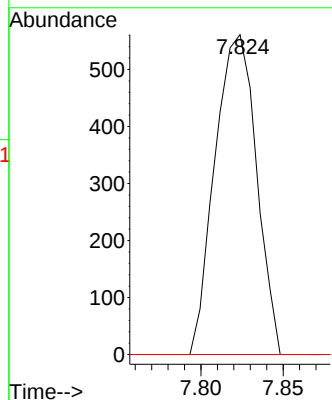
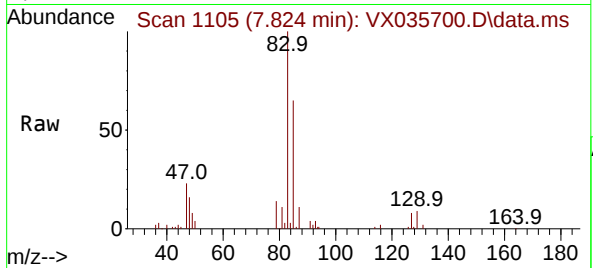




#46
Dibromomethane
Concen: 0.570 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.244 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

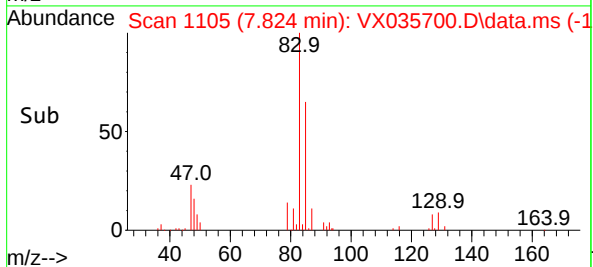
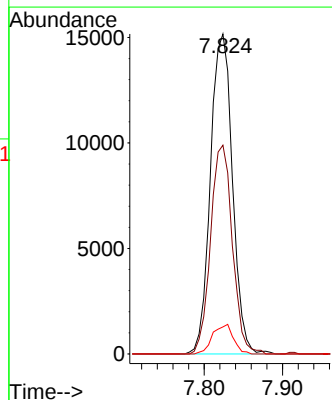
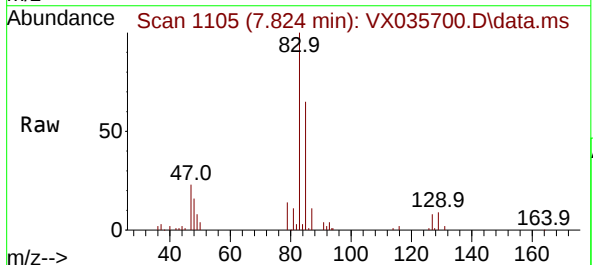
Instrument :
MSVOA_X
ClientSampleId :
002-3

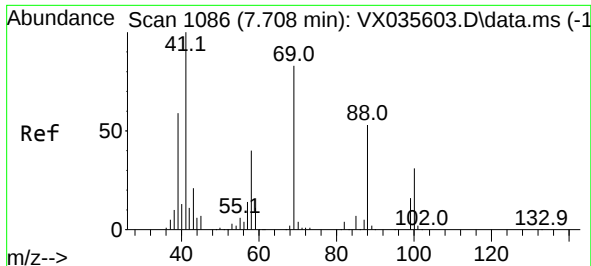
Tgt Ion: 93 Resp: 987
Ion Ratio Lower Upper
93 100
95 0.0 66.9 100.3#
174 0.0 75.4 113.0#



#47
Bromodichloromethane
Concen: 8.838 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 83 Resp: 29587
Ion Ratio Lower Upper
83 100
85 65.3 52.2 78.4
127 8.4 6.6 9.8





#49

1,4-Dioxane

Concen: 5.838 ug/l

RT: 7.714 min Scan# 1086

Delta R.T. 0.006 min

Lab File: VX035700.D

Acq: 16 May 2023 18:46

Instrument :

MSVOA_X

ClientSampleId :

002-3

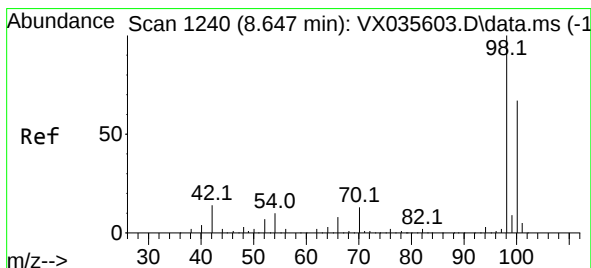
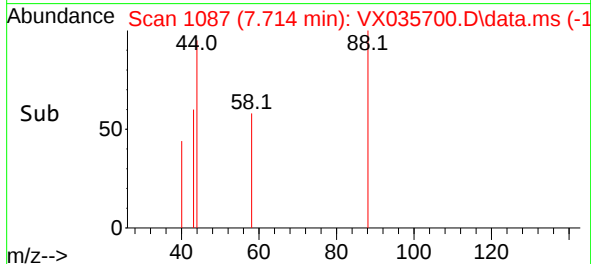
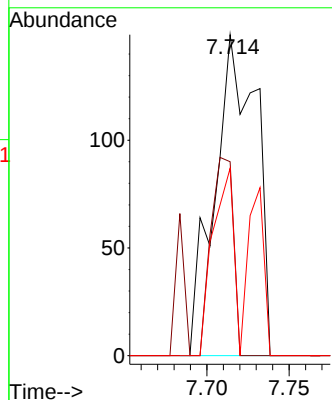
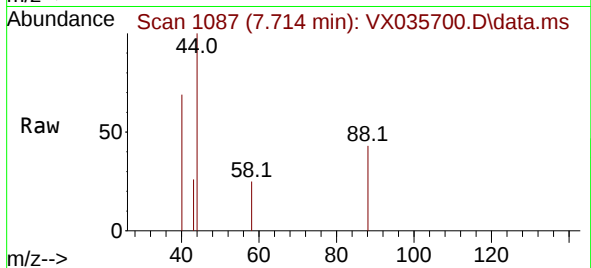
Tgt Ion: 88 Resp: 261

Ion Ratio Lower Upper

88 100

43 33.3 27.7 41.5

58 29.5 56.8 85.2#



#50

Toluene-d8

Concen: 48.804 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX035700.D

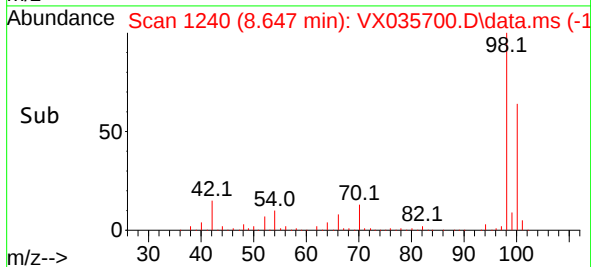
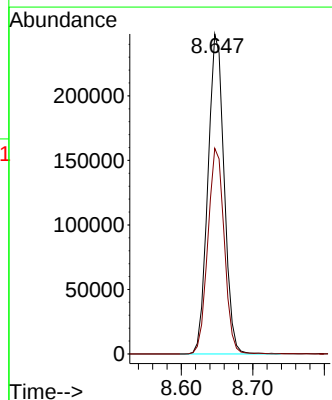
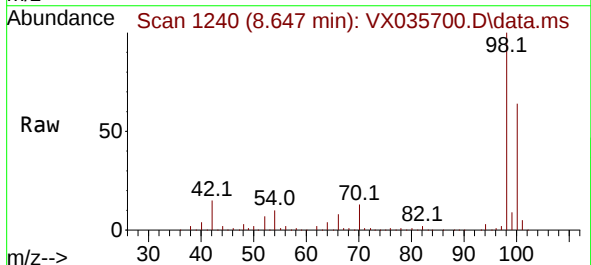
Acq: 16 May 2023 18:46

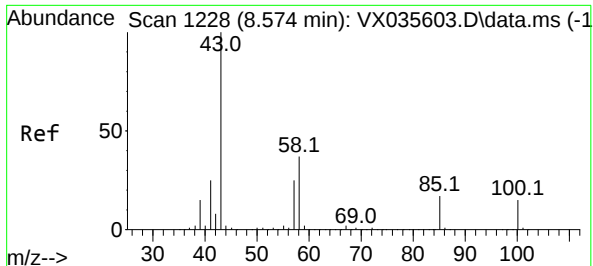
Tgt Ion: 98 Resp: 390088

Ion Ratio Lower Upper

98 100

100 65.1 52.5 78.7

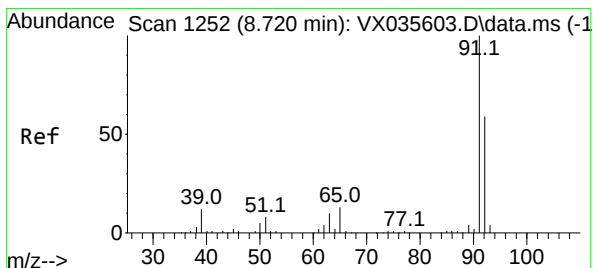
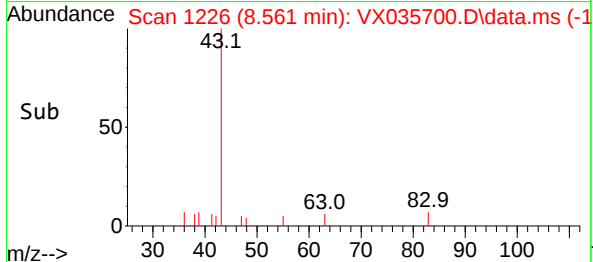
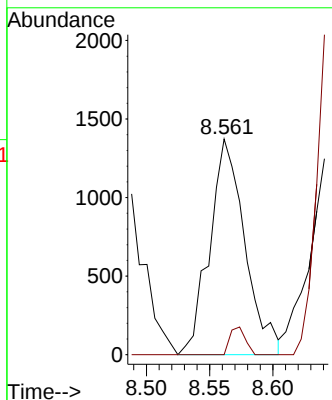
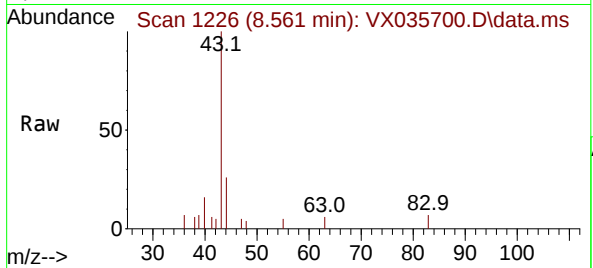




#51
4-Methyl-2-Pentanone
Concen: 0.745 ug/l
RT: 8.561 min Scan# 11
Delta R.T. -0.013 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

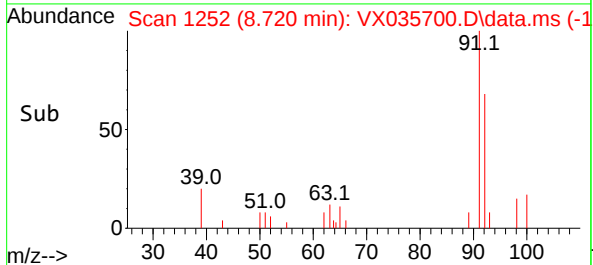
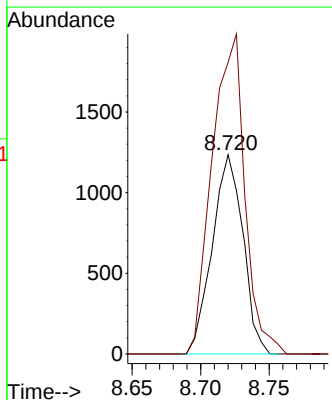
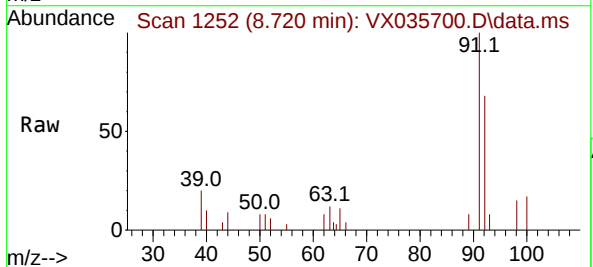
Instrument :
MSVOA_X
ClientSampleId :
002-3

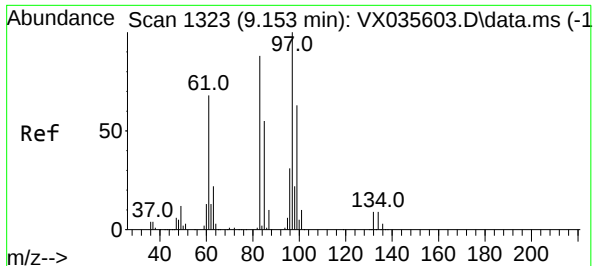
Tgt Ion: 43 Resp: 2665
Ion Ratio Lower Upper
43 100
58 5.6 30.6 46.0#



#52
Toluene
Concen: 0.320 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 92 Resp: 1927
Ion Ratio Lower Upper
92 100
91 171.1 136.8 205.2





#55

1,1,2-Trichloroethane

Concen: 0.282 ug/l

RT: 9.269 min Scan# 1

Delta R.T. 0.116 min

Lab File: VX035700.D

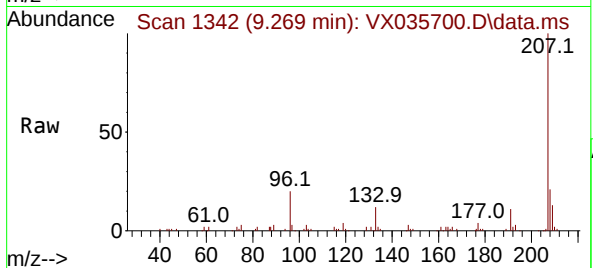
Acq: 16 May 2023 18:46

Instrument :

MSVOA_X

ClientSampleId :

002-3



Tgt Ion: 97 Resp: 669

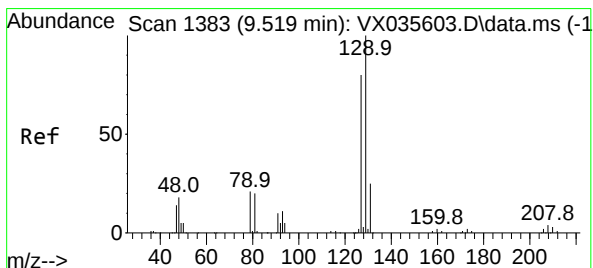
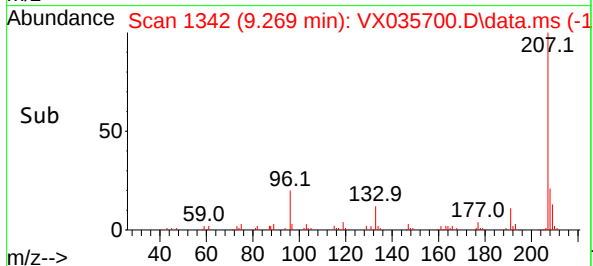
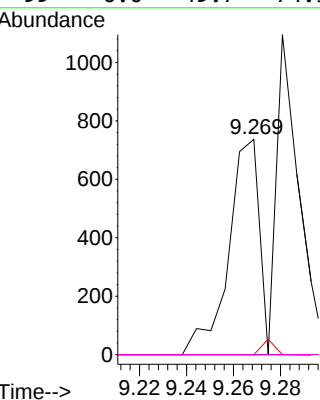
Ion Ratio Lower Upper

97 100

83 0.0 69.7 104.5#

85 0.0 43.7 65.5#

99 0.0 49.7 74.5#



#60

Dibromochloromethane

Concen: 4.047 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX035700.D

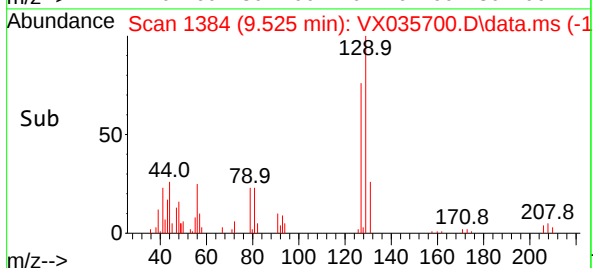
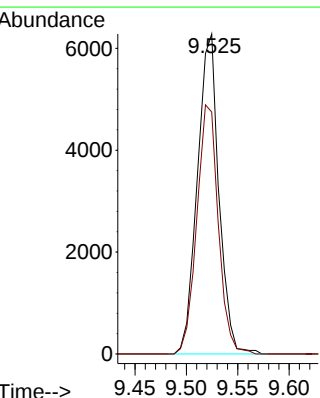
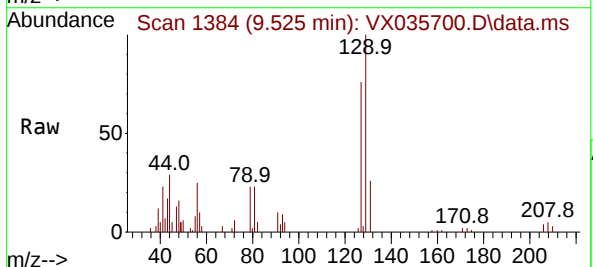
Acq: 16 May 2023 18:46

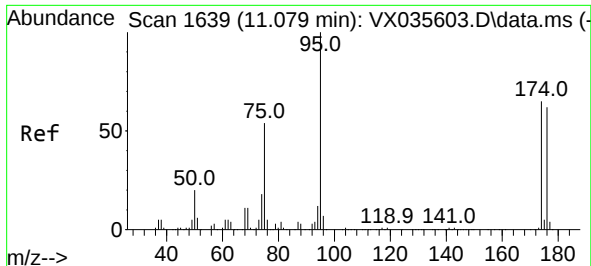
Tgt Ion:129 Resp: 9137

Ion Ratio Lower Upper

129 100

127 77.9 39.0 117.0

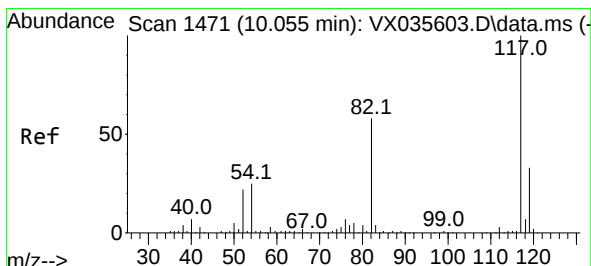
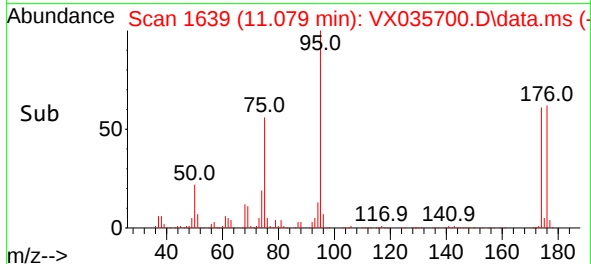
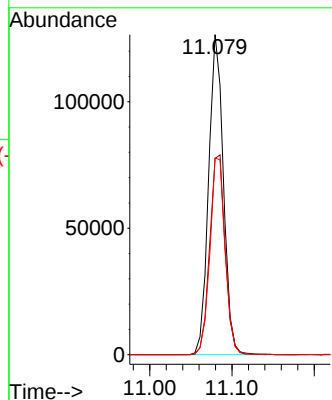
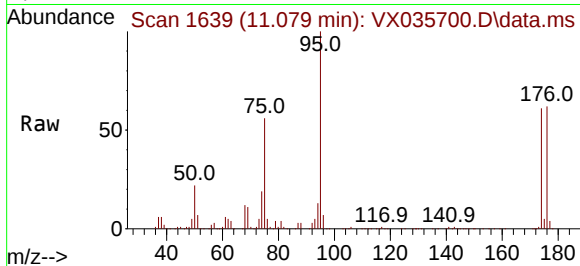




#62
4-Bromofluorobenzene
Concen: 49.003 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

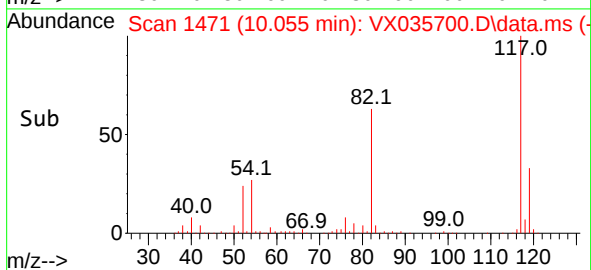
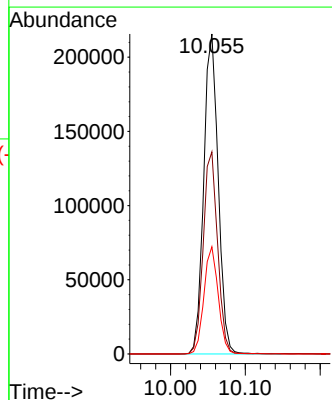
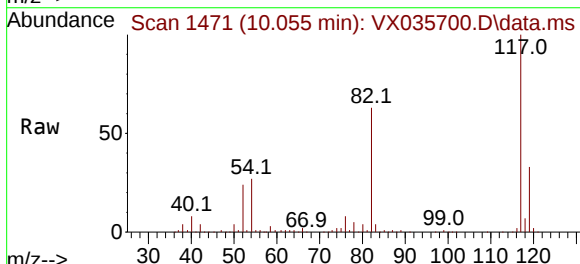
Instrument :
MSVOA_X
ClientSampleId :
002-3

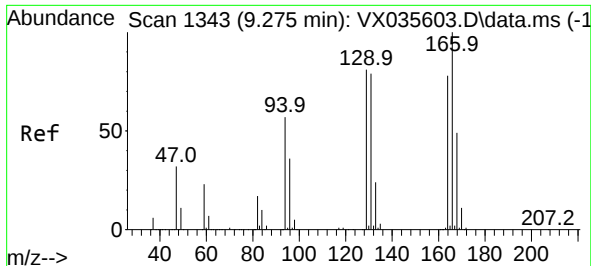
Tgt Ion: 95 Resp: 157706
Ion Ratio Lower Upper
95 100
174 65.2 0.0 147.4
176 63.3 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion: 117 Resp: 289926
Ion Ratio Lower Upper
117 100
82 63.1 45.0 67.4
119 33.5 26.0 39.0

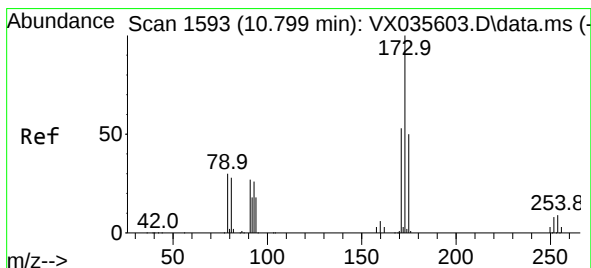
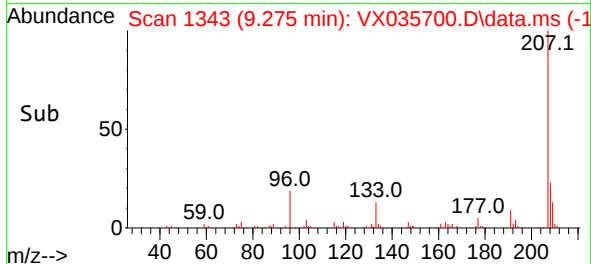
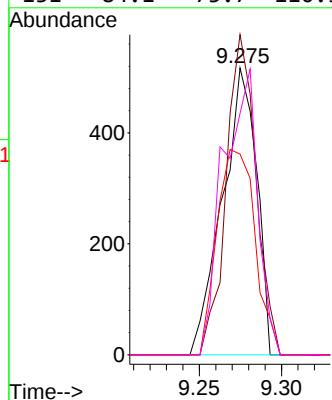
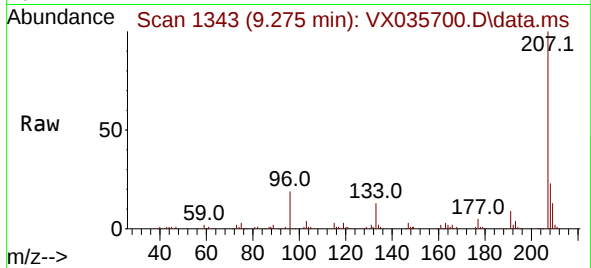




#64
Tetrachloroethene
Concen: 0.384 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

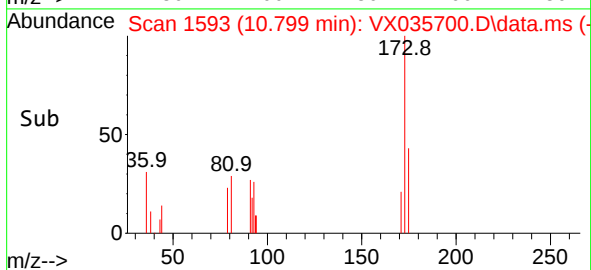
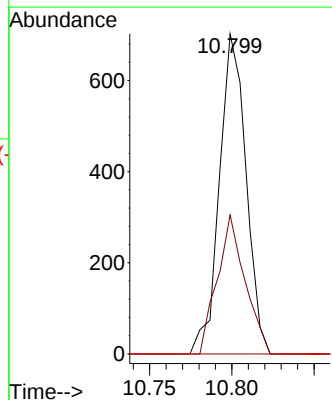
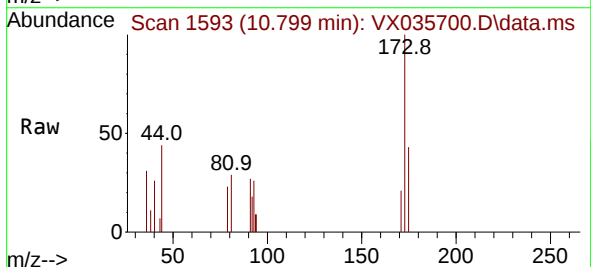
Instrument :
MSVOA_X
ClientSampleId :
002-3

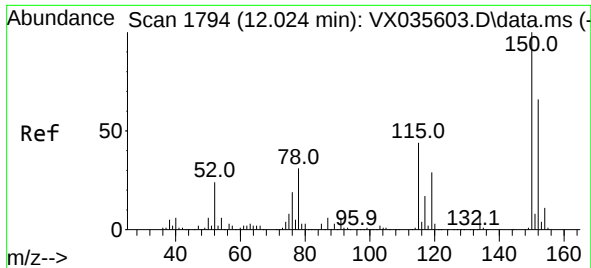
Tgt Ion:164 Resp: 750
Ion Ratio Lower Upper
164 100
166 111.6 102.7 154.1
129 70.0 75.6 113.4#
131 84.1 73.7 110.5



#71
Bromoform
Concen: 0.537 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX035700.D
Acq: 16 May 2023 18:46

Tgt Ion:173 Resp: 790
Ion Ratio Lower Upper
173 100
175 45.3 24.1 72.4
254 0.0 0.1 0.1#

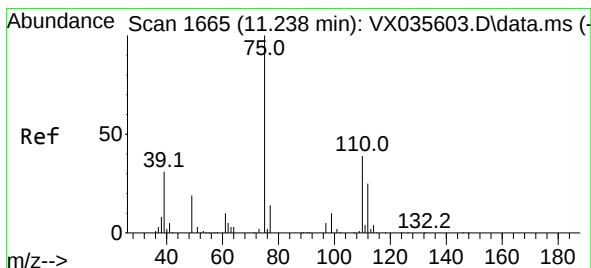
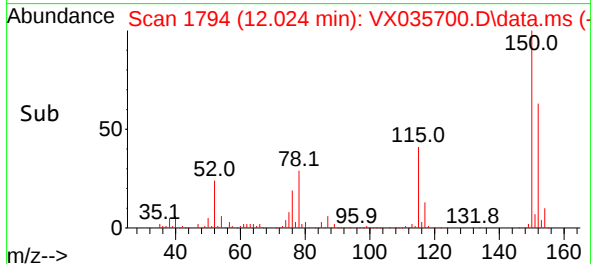
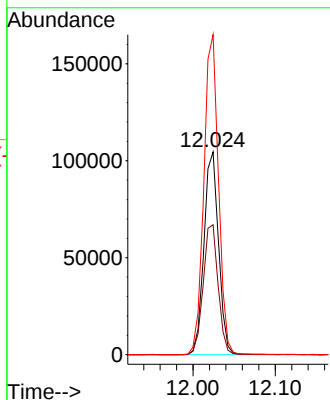
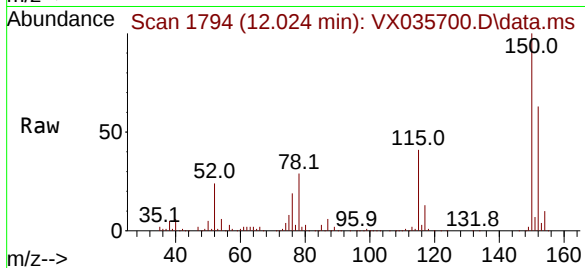




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX035700.D
 Acq: 16 May 2023 18:46

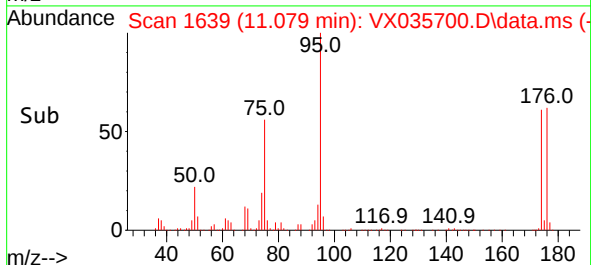
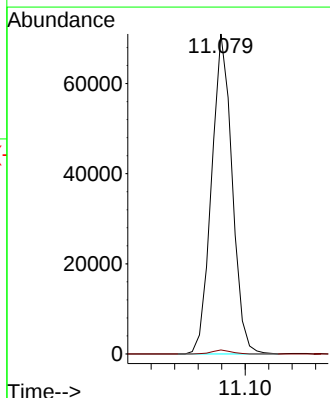
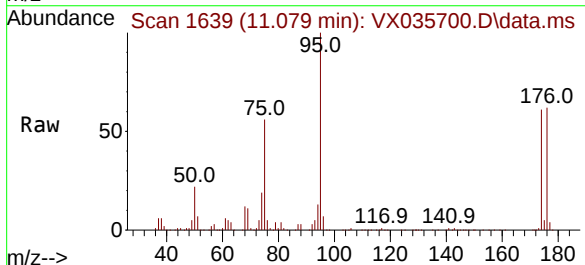
Instrument :
 MSVOA_X
 ClientSampleId :
 002-3

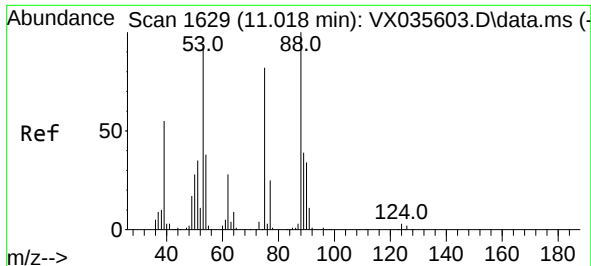
Tgt Ion:152 Resp: 129219
 Ion Ratio Lower Upper
 152 100
 115 65.6 45.0 135.0
 150 158.1 0.0 352.4



#76
 1,2,3-Trichloropropane
 Concen: 27.339 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX035700.D
 Acq: 16 May 2023 18:46

Tgt Ion: 75 Resp: 86412
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.6 64.8#

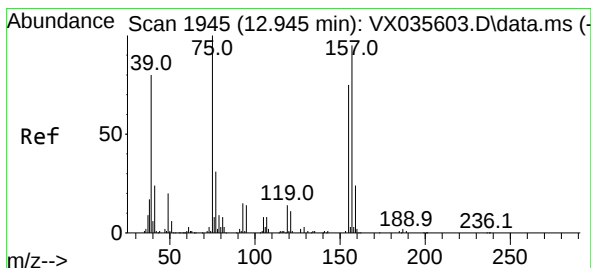
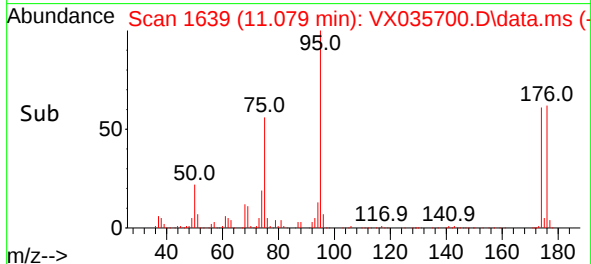
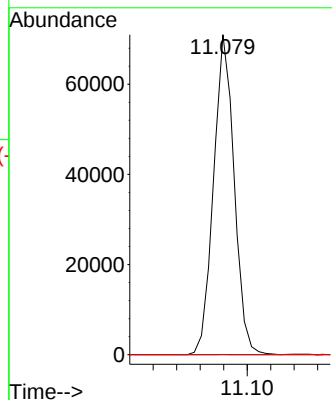
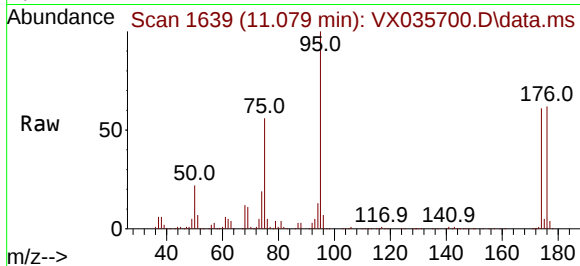




#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.110 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX035700.D
 Acq: 16 May 2023 18:46

Instrument :
 MSVOA_X
 ClientSampleId :
 002-3

Tgt Ion: 75 Resp: 86412
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.6 124.0#
 89 0.0 36.9 55.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.868 ug/l
 RT: 12.768 min Scan# 1916
 Delta R.T. -0.177 min
 Lab File: VX035700.D
 Acq: 16 May 2023 18:46

Tgt Ion: 75 Resp: 683
 Ion Ratio Lower Upper
 75 100
 155 4.1 38.4 115.1#
 157 0.0 49.9 149.7#

