

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051623\
 Data File : VX035694.D
 Acq On : 16 May 2023 16:26
 Operator : JC/MD
 Sample : 02615-02RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-1

Quant Time: May 17 05:32:13 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

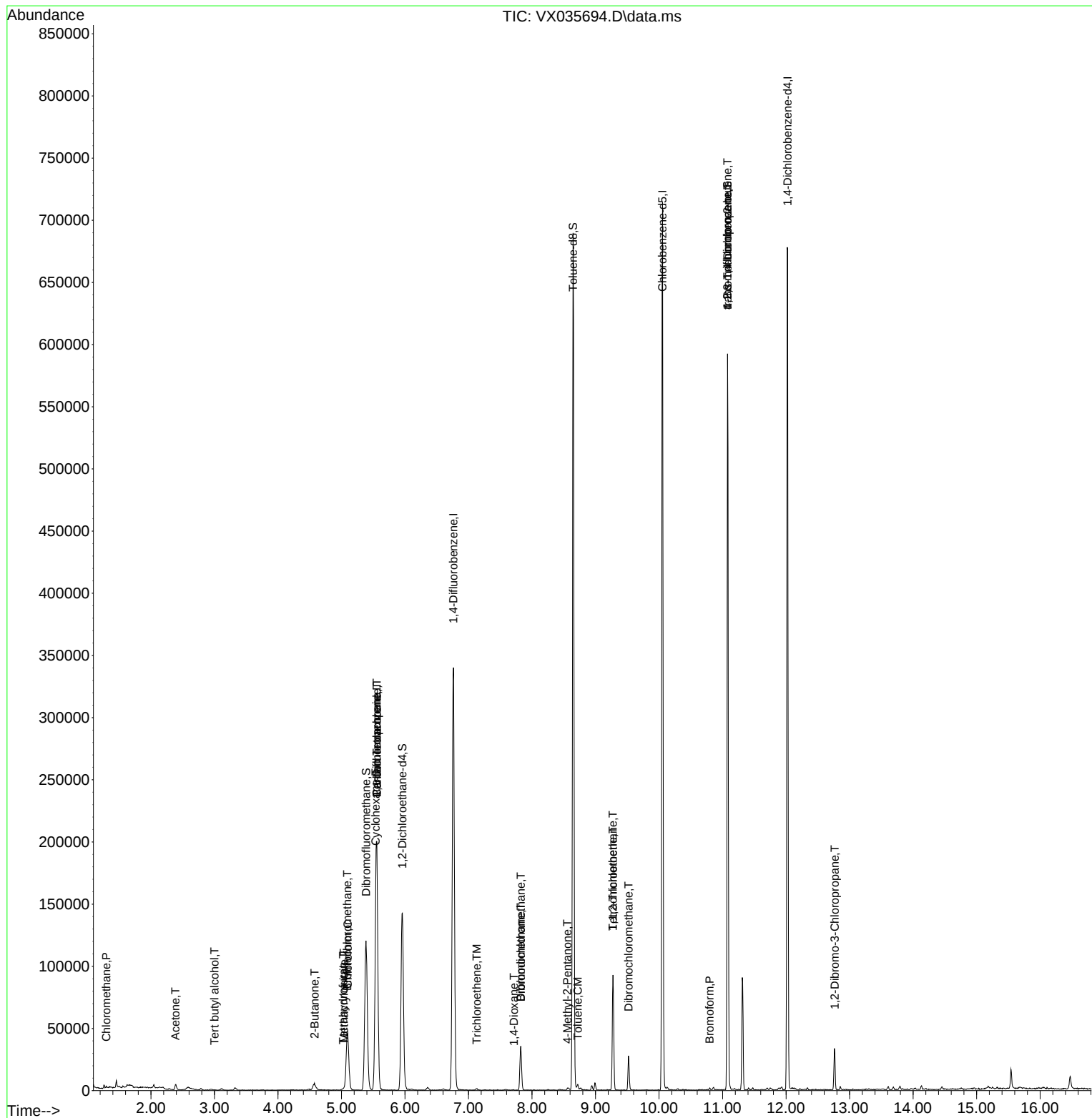
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	175018	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	321744	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	292152	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	129839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	147740	48.388	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.780%
35) Dibromofluoromethane	5.385	113	104792	48.295	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.580%
50) Toluene-d8	8.647	98	386193	48.178	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.360%
62) 4-Bromofluorobenzene	11.079	95	158876	49.225	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	98.460%
Target Compounds						
						Qvalue
3) Chloromethane	1.294	50	728	0.263	ug/l	# 67
11) Tert butyl alcohol	3.001	59	238	0.442	ug/l	# 73
16) Acetone	2.386	43	5290	4.031	ug/l	90
25) 2-Butanone	4.574	43	1449	0.798	ug/l	# 81
28) Bromochloromethane	5.092	49	4672	2.376	ug/l	# 15
29) Tetrahydrofuran	5.025	42	1013	0.887	ug/l	90
30) Chloroform	5.099	83	53152	11.863	ug/l	97
31) Cyclohexane	5.537	56	4812	1.247	ug/l	# 31
36) 1,1-Dichloropropene	5.556	75	16380	4.782	ug/l	# 50
38) Carbon Tetrachloride	5.556	117	20220	6.232	ug/l	# 15
41) Methacrylonitrile	5.038	41	763	0.360	ug/l	# 39
44) Trichloroethene	7.129	130	490	0.202	ug/l	58
46) Dibromomethane	7.824	93	704	0.405	ug/l	# 5
47) Bromodichloromethane	7.824	83	21768	6.484	ug/l	93
49) 1,4-Dioxane	7.714	88	258	5.783	ug/l	# 84
51) 4-Methyl-2-Pentanone	8.555	43	2426	0.676	ug/l	# 37
52) Toluene	8.720	92	1558	0.258	ug/l	87
55) 1,1,2-Trichloroethane	9.275	97	1376	0.579	ug/l	# 15
60) Dibromochloromethane	9.518	129	6961	3.074	ug/l	99
64) Tetrachloroethene	9.275	164	892	0.454	ug/l	# 70
71) Bromoform	10.799	173	503	0.339	ug/l	# 94
76) 1,2,3-Trichloropropane	11.079	75	87343	27.502	ug/l	# 34
81) trans-1,4-Dichloro-2-b...	11.079	75	87343	88.634	ug/l	# 8
92) 1,2-Dibromo-3-Chloropr...	12.768	75	1072	1.356	ug/l	# 9

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

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Quant Title : SW846 8260
QLast Update : Thu May 11 13:57:54 2023
Response via : Initial Calibration

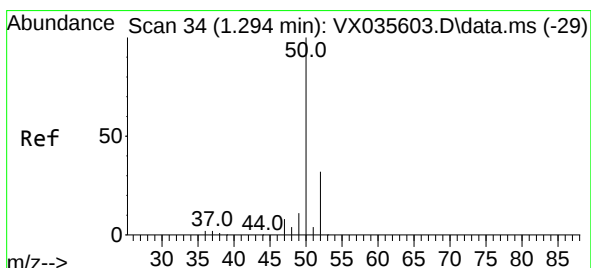
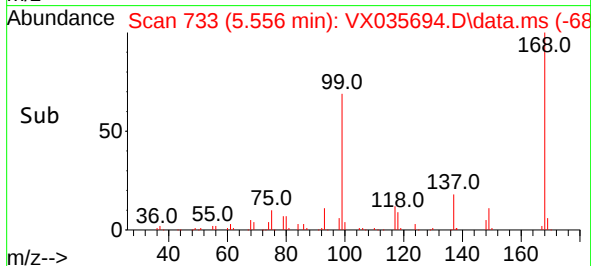
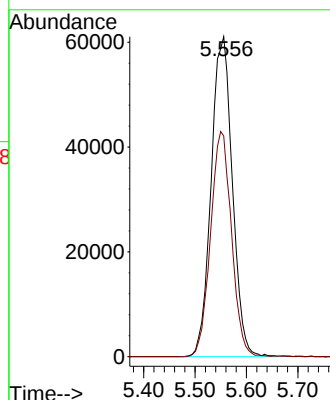
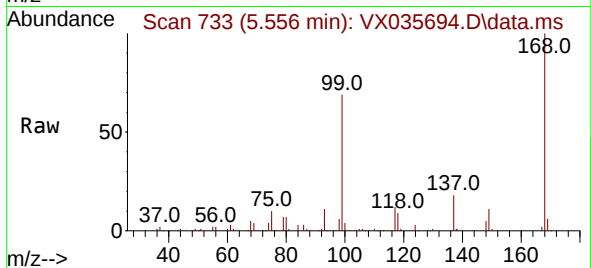




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

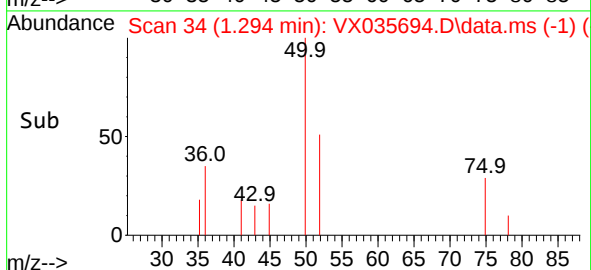
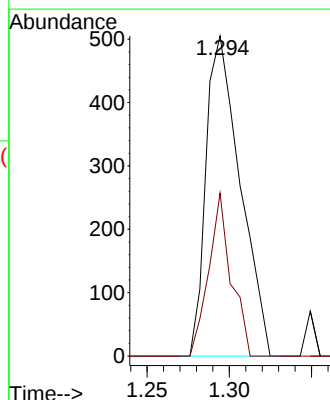
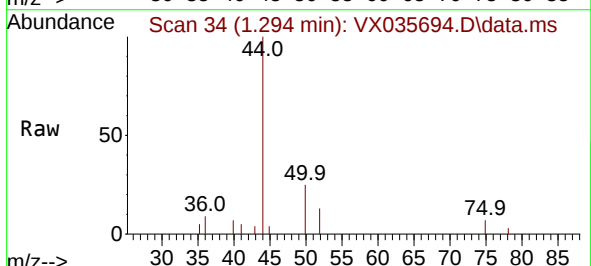
Instrument :
MSVOA_X
ClientSampleId :
002-1

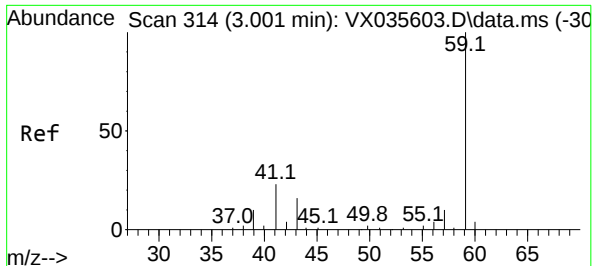
Tgt Ion:168 Resp: 175018
Ion Ratio Lower Upper
168 100
99 69.0 45.7 68.5#



#3
Chloromethane
Concen: 0.263 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion: 50 Resp: 728
Ion Ratio Lower Upper
50 100
52 50.9 25.9 38.9#





#11

Tert butyl alcohol

Concen: 0.442 ug/l

RT: 3.001 min Scan# 314

Delta R.T. 0.000 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

Instrument :

MSVOA_X

ClientSampleId :

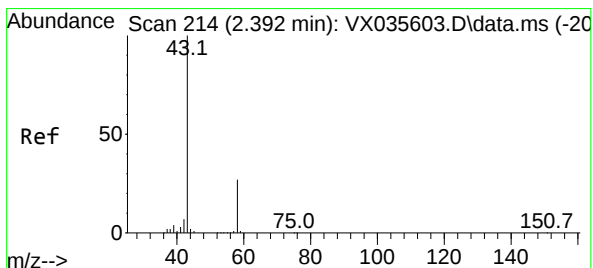
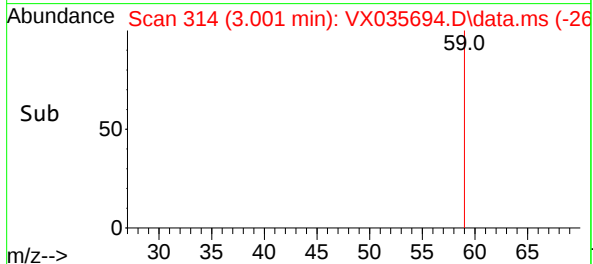
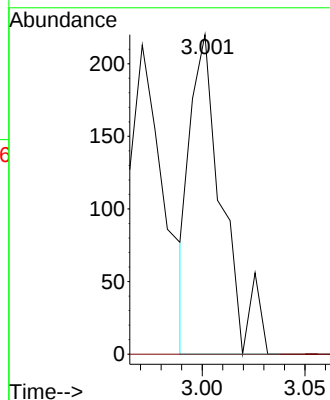
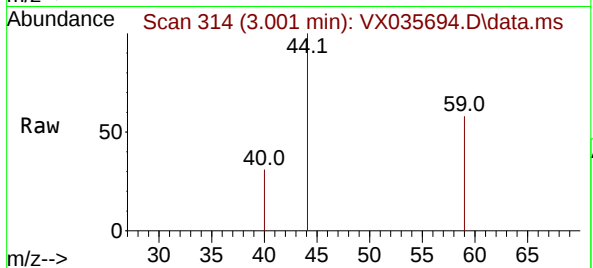
002-1

Tgt Ion: 59 Resp: 238

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#16

Acetone

Concen: 4.031 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX035694.D

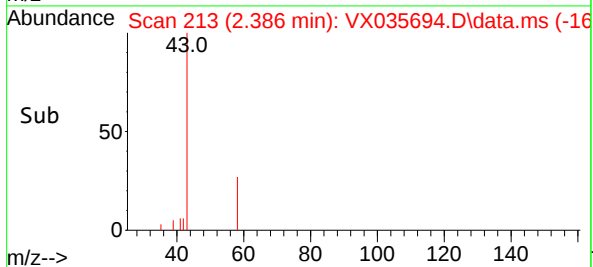
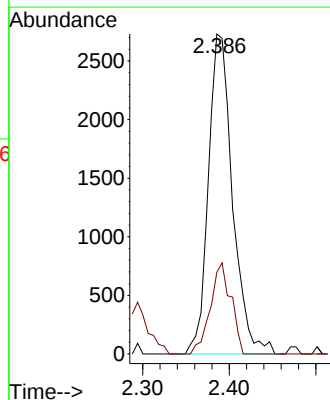
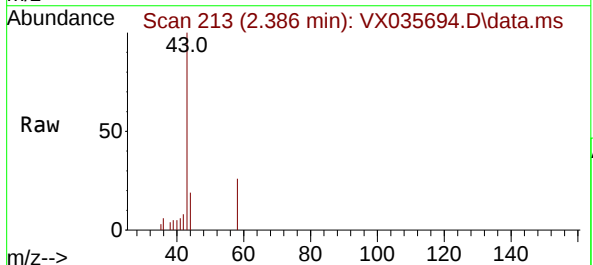
Acq: 16 May 2023 16:26

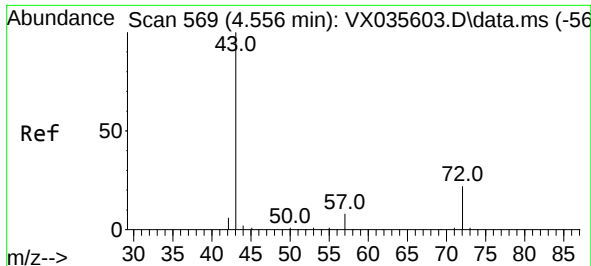
Tgt Ion: 43 Resp: 5290

Ion Ratio Lower Upper

43 100

58 25.6 24.7 37.1





#25

2-Butanone

Concen: 0.798 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

Instrument :

MSVOA_X

ClientSampleId :

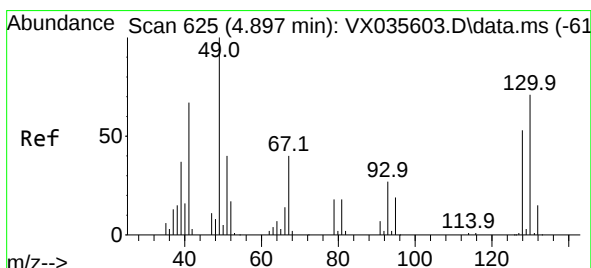
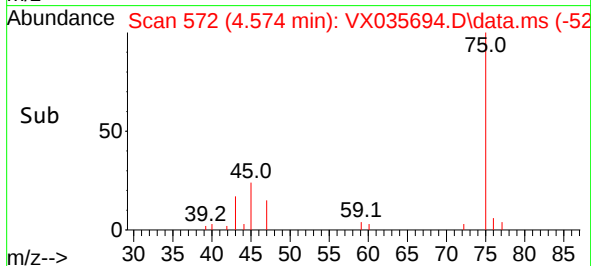
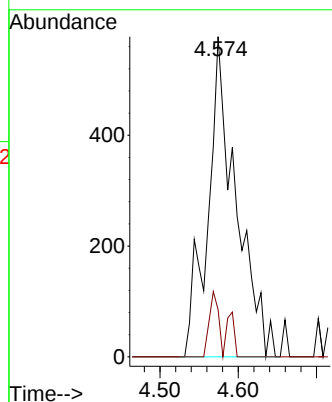
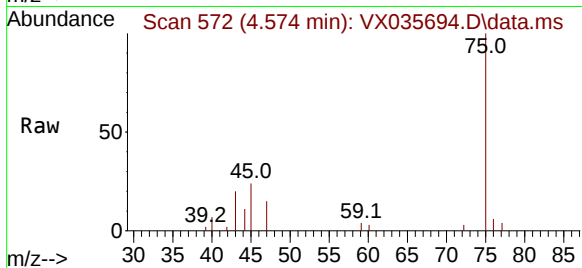
002-1

Tgt Ion: 43 Resp: 1449

Ion Ratio Lower Upper

43 100

72 14.7 19.3 28.9#



#28

Bromochloromethane

Concen: 2.376 ug/l

RT: 5.092 min Scan# 657

Delta R.T. 0.195 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

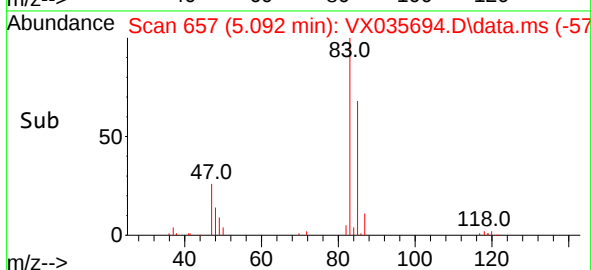
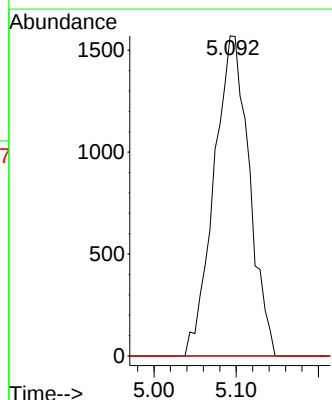
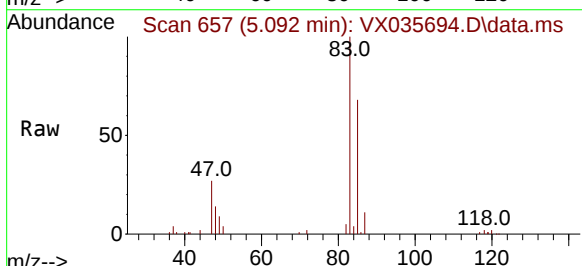
Tgt Ion: 49 Resp: 4672

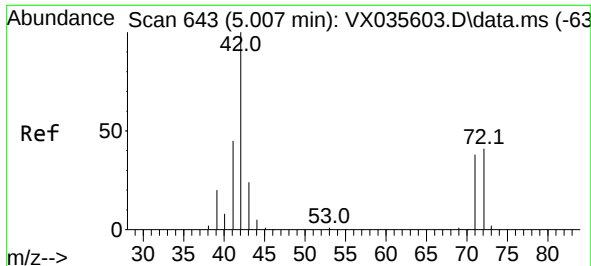
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 58.2 87.2#





#29

Tetrahydrofuran

Concen: 0.887 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

Instrument :

MSVOA_X

ClientSampleId :

002-1

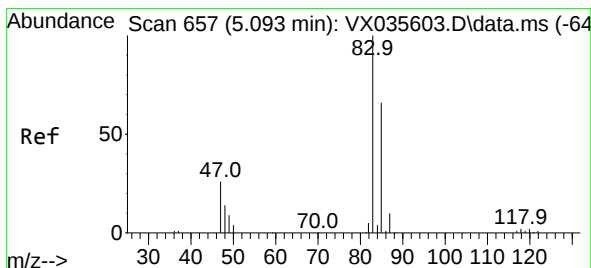
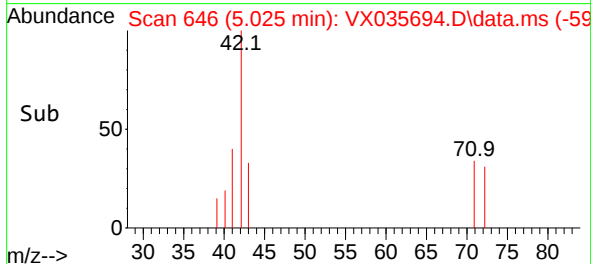
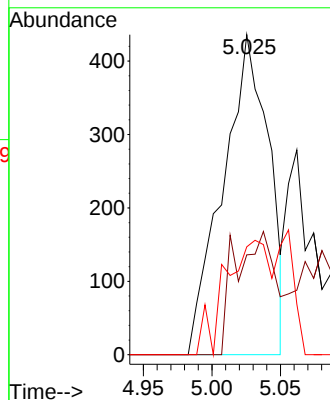
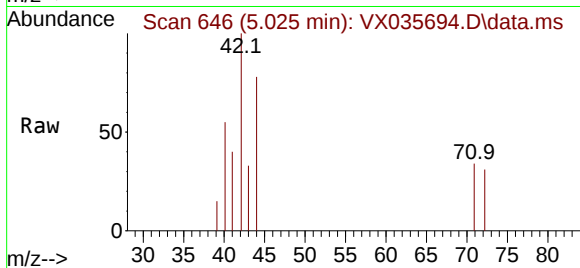
Tgt Ion: 42 Resp: 1013

Ion Ratio Lower Upper

42 100

72 35.8 34.5 51.7

71 35.0 32.1 48.1



#30

Chloroform

Concen: 11.863 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.006 min

Lab File: VX035694.D

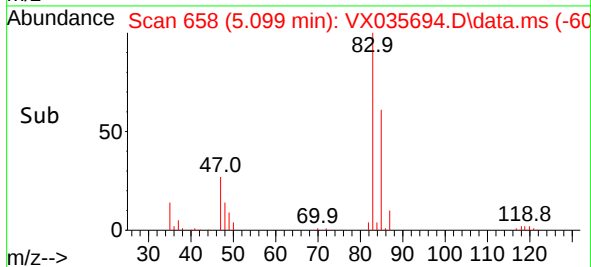
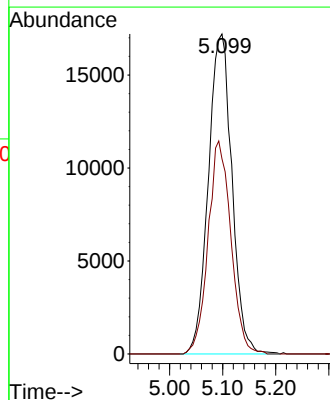
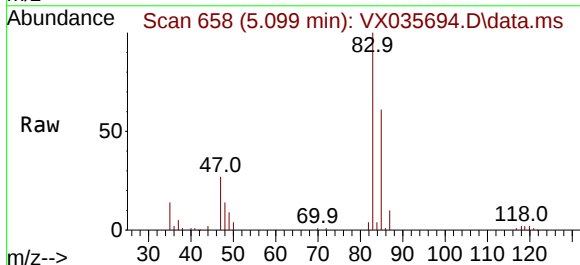
Acq: 16 May 2023 16:26

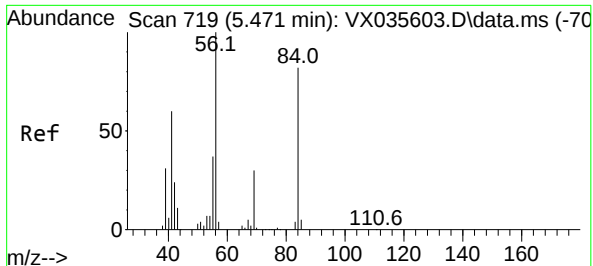
Tgt Ion: 83 Resp: 53152

Ion Ratio Lower Upper

83 100

85 61.0 50.6 76.0

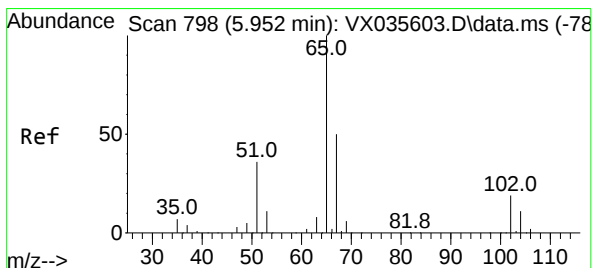
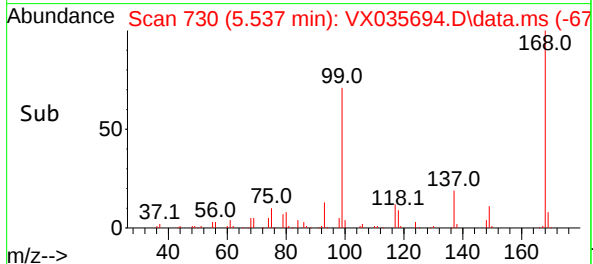
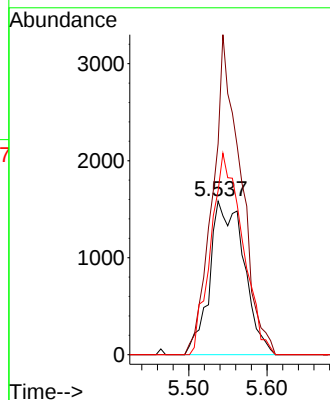
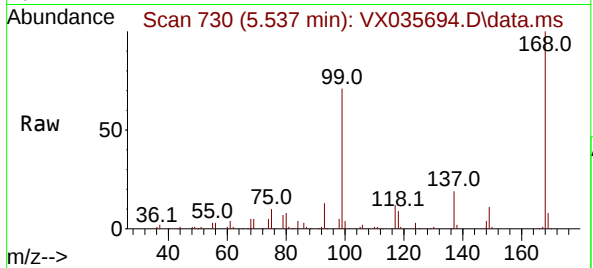




#31
Cyclohexane
Concen: 1.247 ug/l
RT: 5.537 min Scan# 719
Delta R.T. 0.066 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

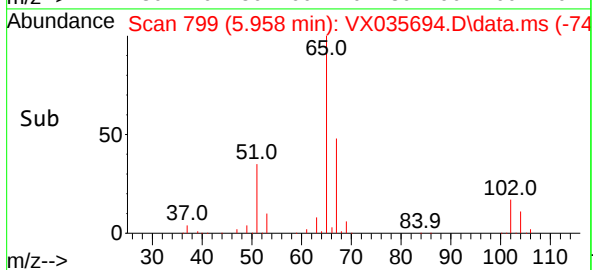
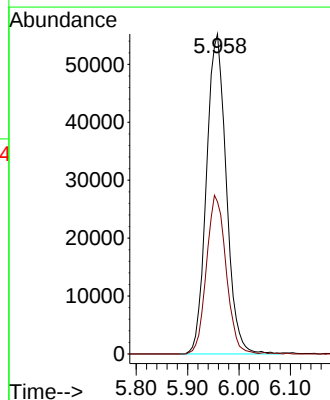
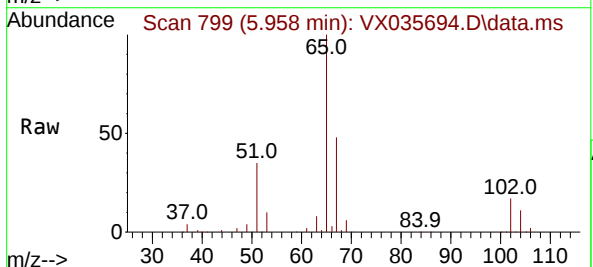
Instrument :
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ClientSampleId :
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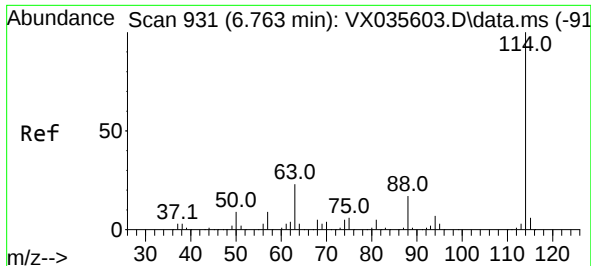
Tgt Ion: 56 Resp: 4812
Ion Ratio Lower Upper
56 100
69 137.4 23.7 35.5#
84 106.8 68.5 102.7#



#33
1,2-Dichloroethane-d4
Concen: 48.388 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion: 65 Resp: 147740
Ion Ratio Lower Upper
65 100
67 49.1 0.0 104.0

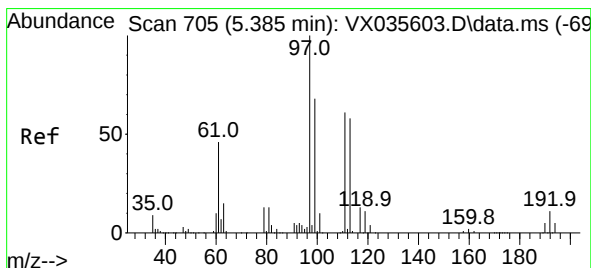
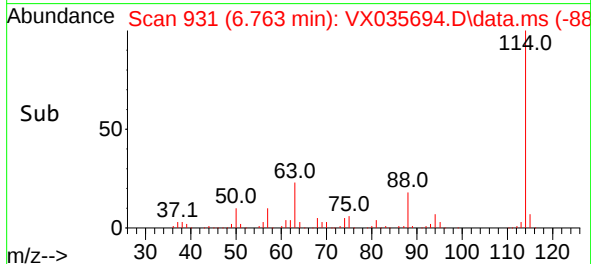
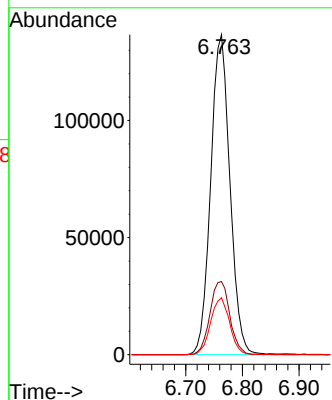
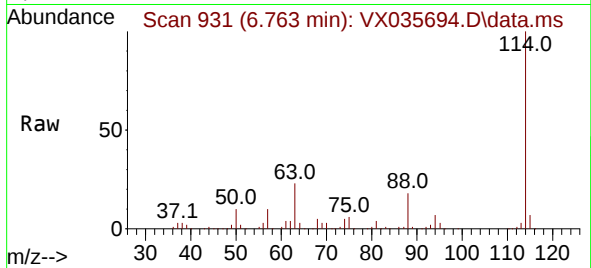




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

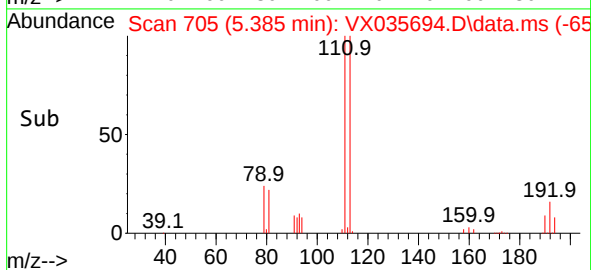
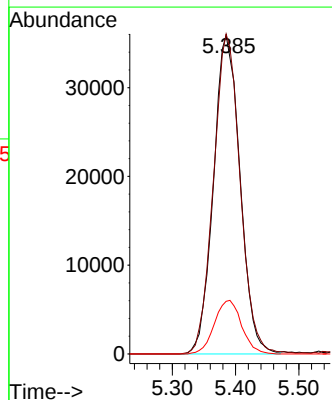
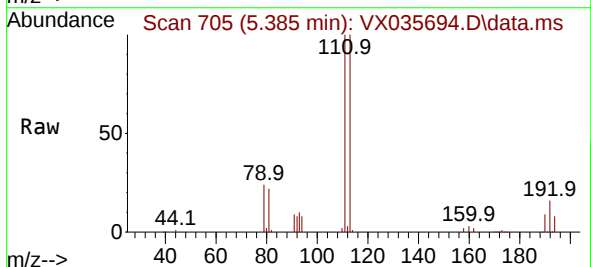
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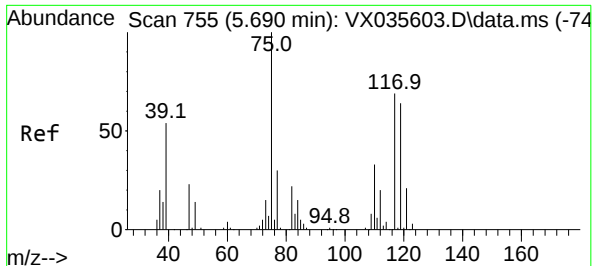
Tgt Ion:114 Resp: 321744
Ion Ratio Lower Upper
114 100
63 22.8 0.0 42.2
88 17.8 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.295 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion:113 Resp: 104792
Ion Ratio Lower Upper
113 100
111 100.8 83.7 125.5
192 17.2 15.4 23.2

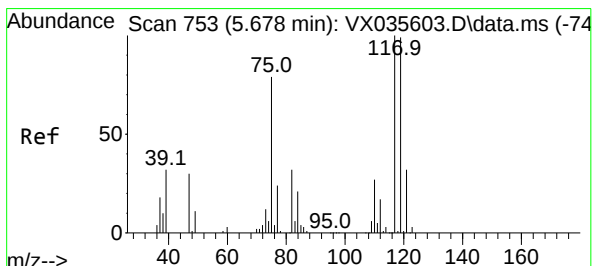
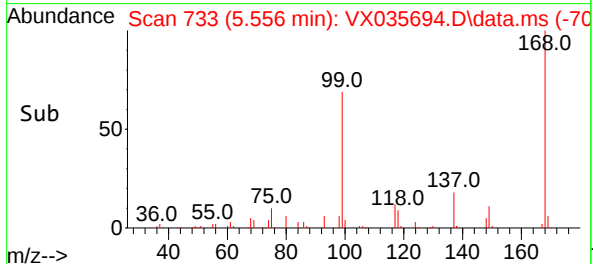
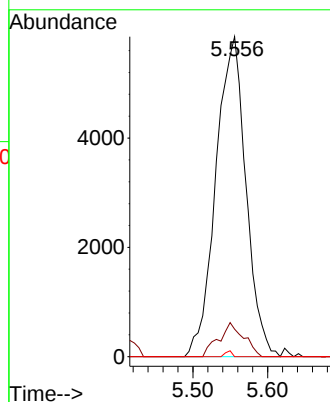
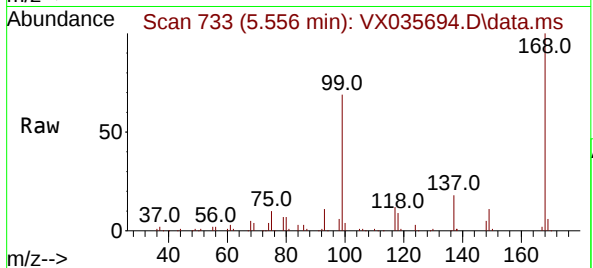




#36
1,1-Dichloropropene
Concen: 4.782 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.134 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

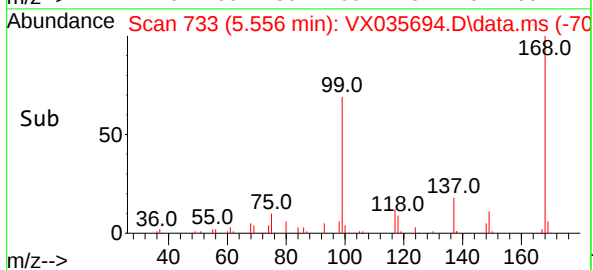
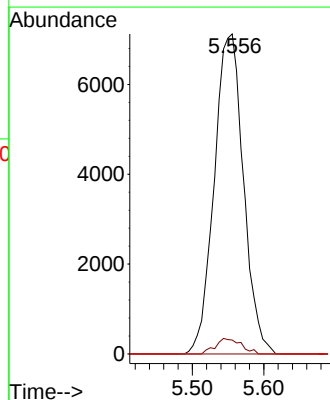
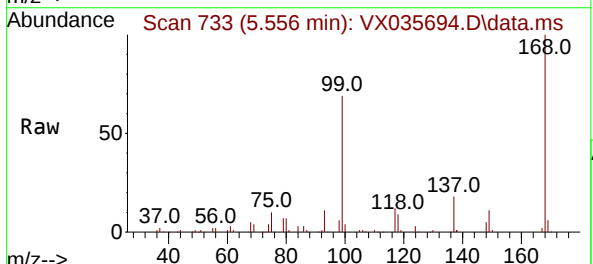
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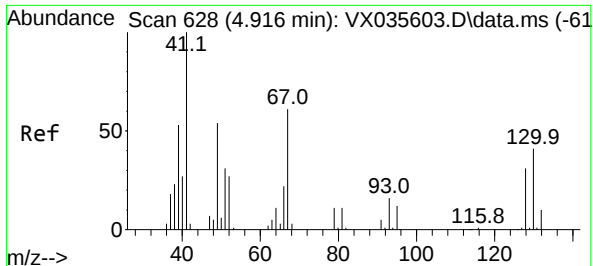
Tgt Ion: 75 Resp: 16380
Ion Ratio Lower Upper
75 100
110 8.9 17.5 52.5#
77 0.4 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 6.232 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion: 117 Resp: 20220
Ion Ratio Lower Upper
117 100
119 4.4 76.6 114.8#
121 0.0 23.8 35.6#

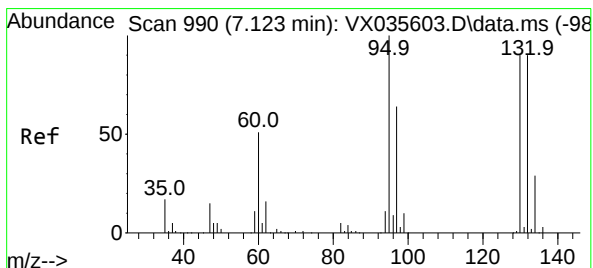
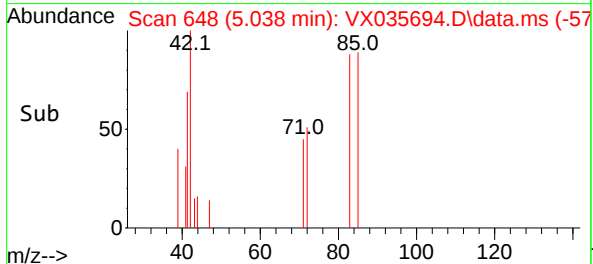
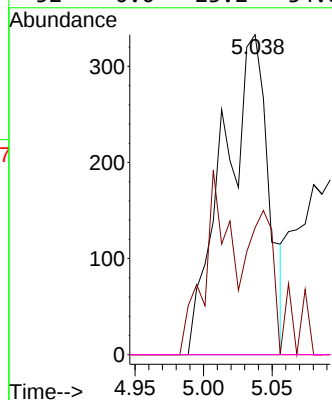
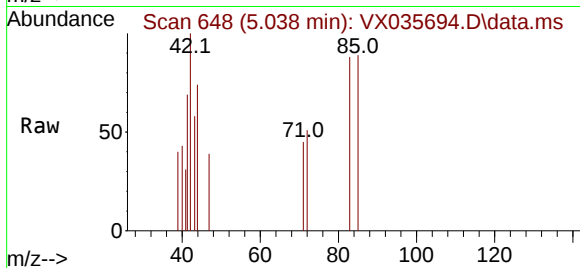




#41
Methacrylonitrile
Concen: 0.360 ug/l
RT: 5.038 min Scan# 641
Delta R.T. 0.122 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

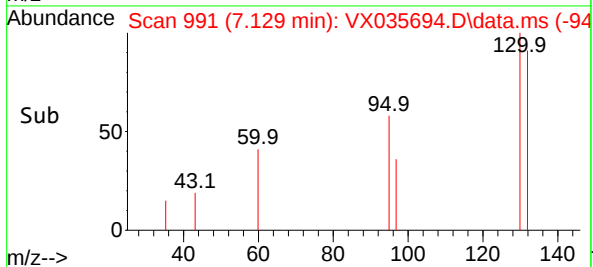
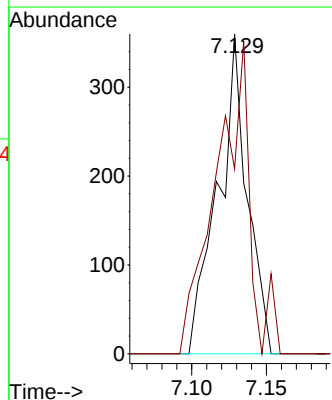
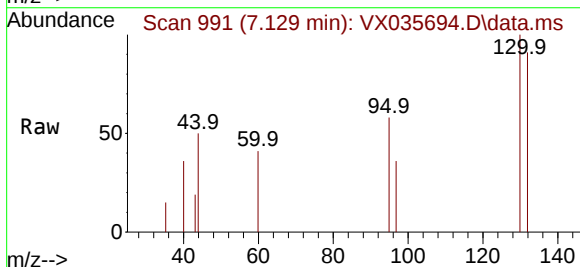
Instrument :
MSVOA_X
ClientSampleId :
002-1

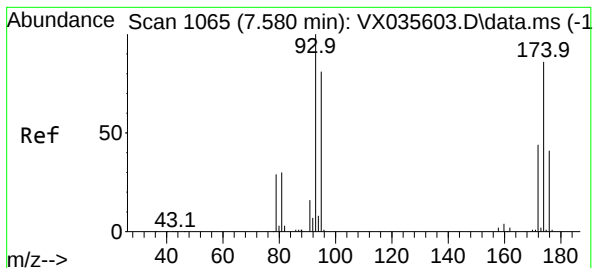
Tgt Ion: 41	Resp: 763
Ion Ratio	Lower Upper
41 100	
39 31.7	45.0 67.6#
67 0.0	55.6 83.4#
52 0.0	23.2 34.8#



#44
Trichloroethene
Concen: 0.202 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion:130	Resp:	490	
Ion	Ratio	Lower	Upper
130	100		
95	57.8	0.0	198.4





#46

Dibromomethane

Concen: 0.405 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.244 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

Instrument :

MSVOA_X

ClientSampleId :

002-1

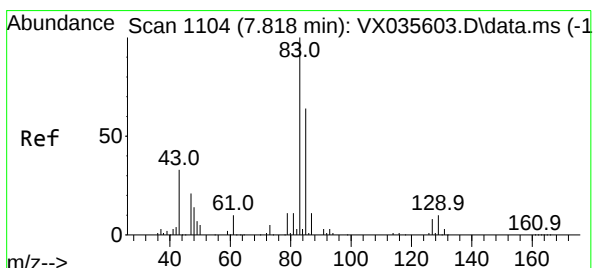
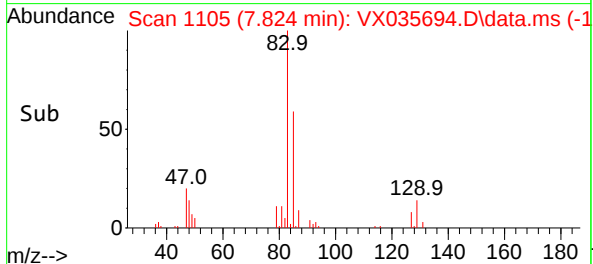
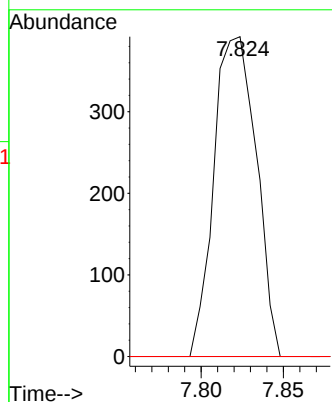
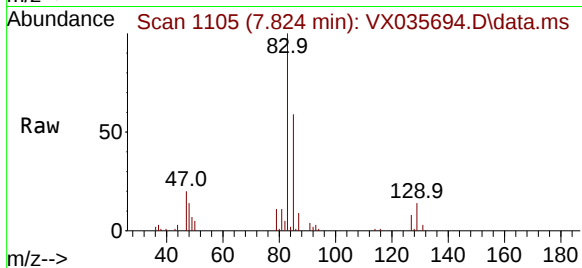
Tgt Ion: 93 Resp: 704

Ion Ratio Lower Upper

93 100

95 0.0 66.9 100.3#

174 0.0 75.4 113.0#



#47

Bromodichloromethane

Concen: 6.484 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

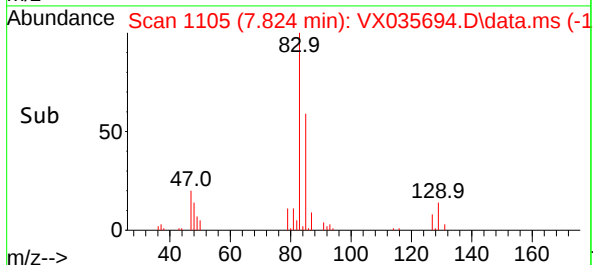
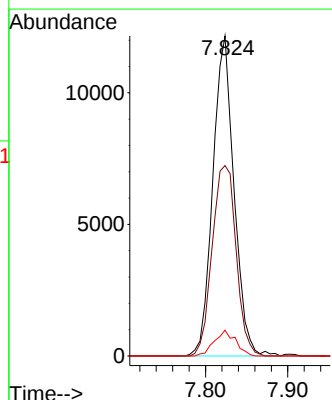
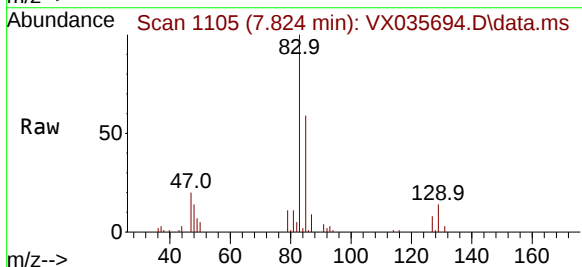
Tgt Ion: 83 Resp: 21768

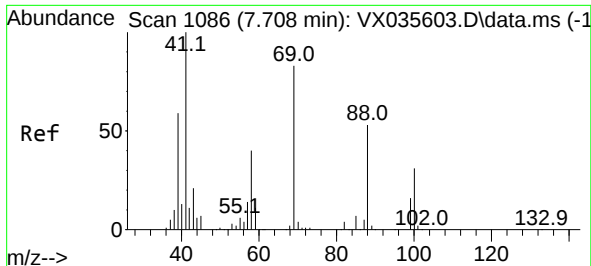
Ion Ratio Lower Upper

83 100

85 59.5 52.2 78.4

127 8.0 6.6 9.8





#49

1,4-Dioxane

Concen: 5.783 ug/l

RT: 7.714 min Scan# 1086

Delta R.T. 0.006 min

Lab File: VX035694.D

Acq: 16 May 2023 16:26

Instrument :

MSVOA_X

ClientSampleId :

002-1

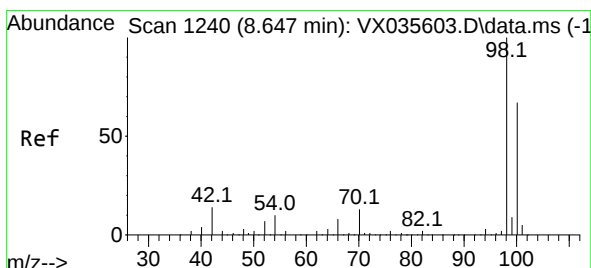
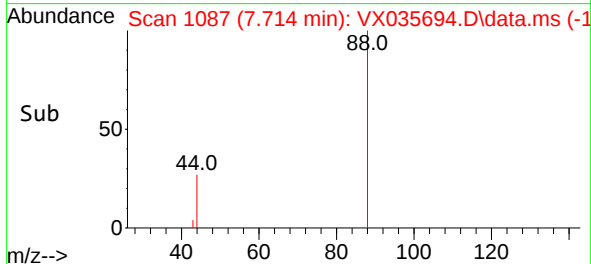
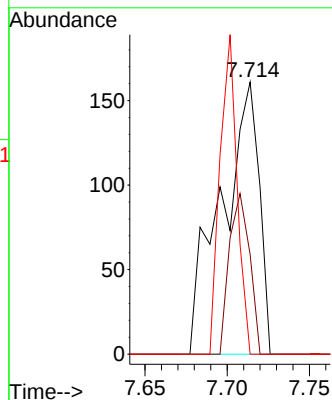
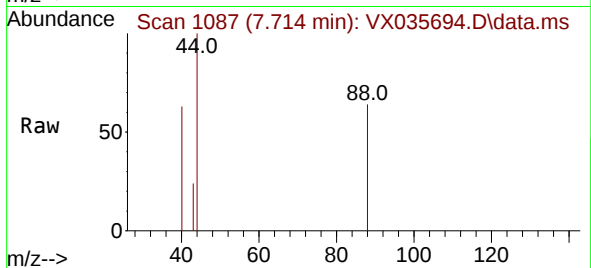
Tgt Ion: 88 Resp: 258

Ion Ratio Lower Upper

88 100

43 31.8 27.7 41.5

58 52.7 56.8 85.2#



#50

Toluene-d8

Concen: 48.178 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX035694.D

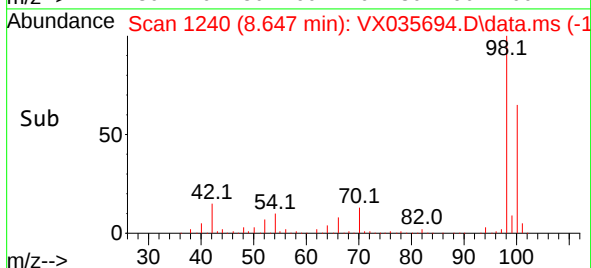
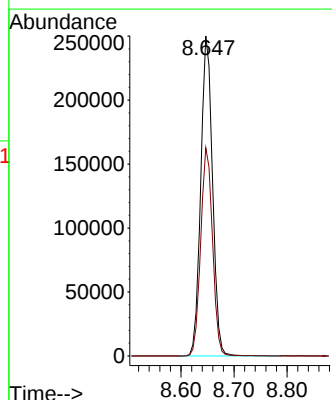
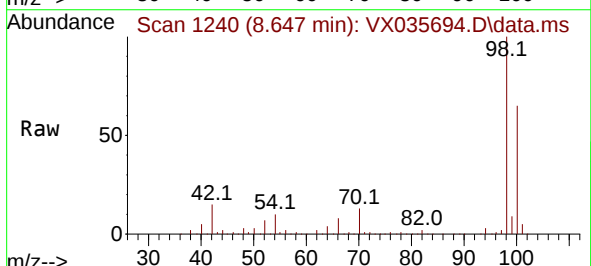
Acq: 16 May 2023 16:26

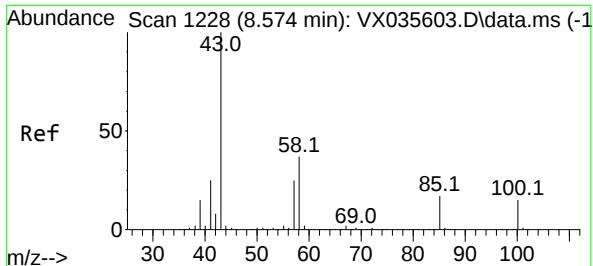
Tgt Ion: 98 Resp: 386193

Ion Ratio Lower Upper

98 100

100 65.4 52.5 78.7

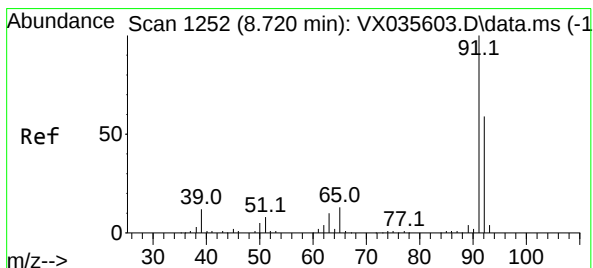
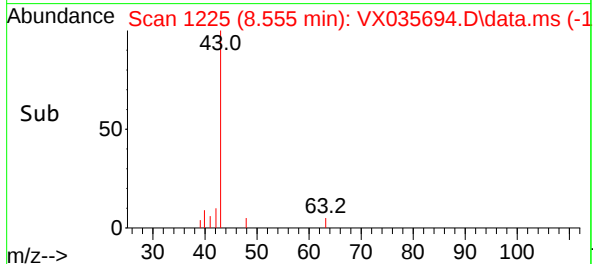
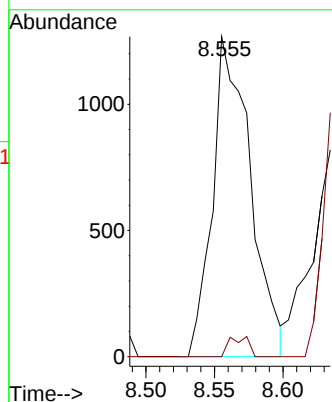
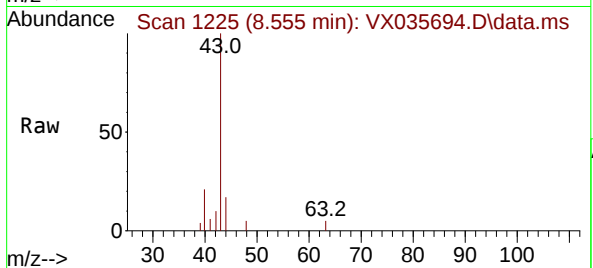




#51
4-Methyl-2-Pentanone
Concen: 0.676 ug/l
RT: 8.555 min Scan# 11
Delta R.T. -0.019 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

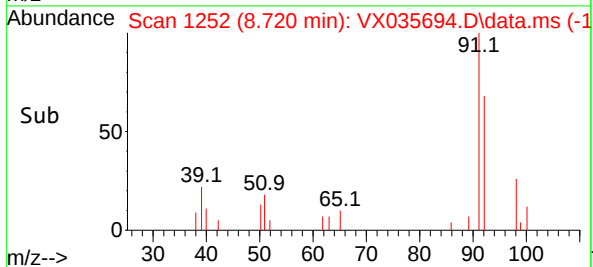
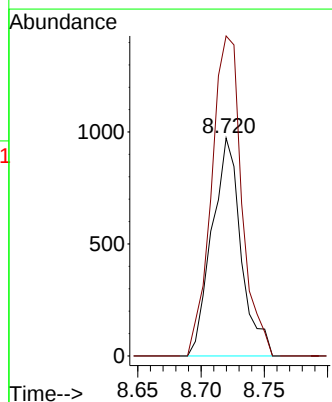
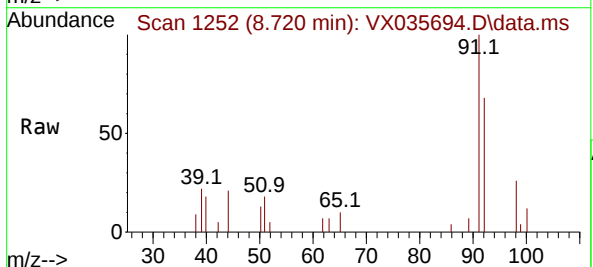
Instrument :
MSVOA_X
ClientSampleId :
002-1

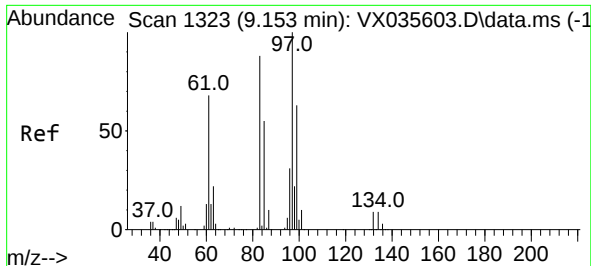
Tgt Ion: 43 Resp: 2426
Ion Ratio Lower Upper
43 100
58 0.0 30.6 46.0#



#52
Toluene
Concen: 0.258 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion: 92 Resp: 1558
Ion Ratio Lower Upper
92 100
91 152.8 136.8 205.2

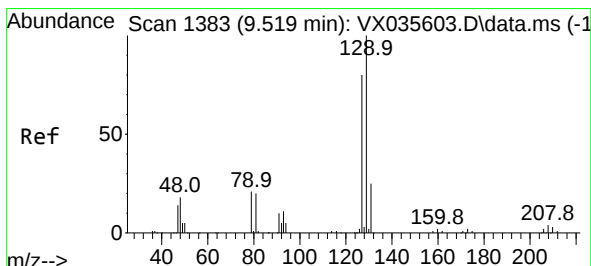
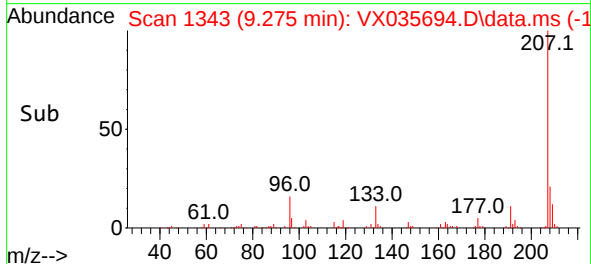
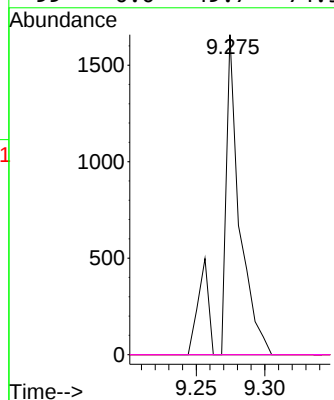
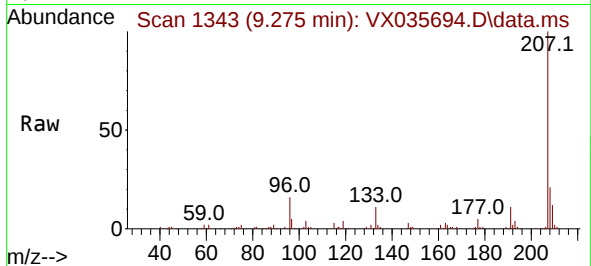




#55
1,1,2-Trichloroethane
Concen: 0.579 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.122 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

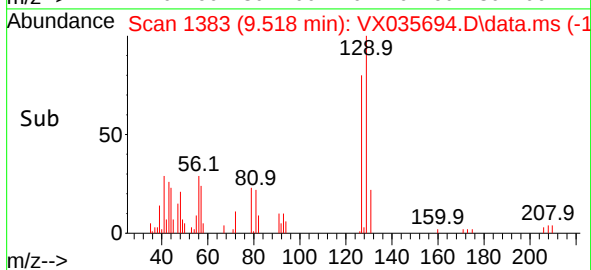
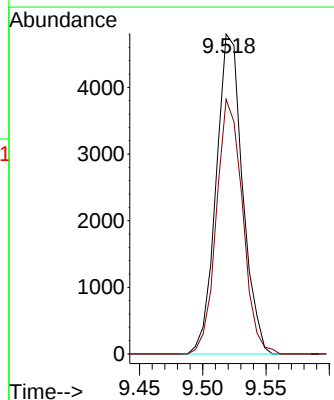
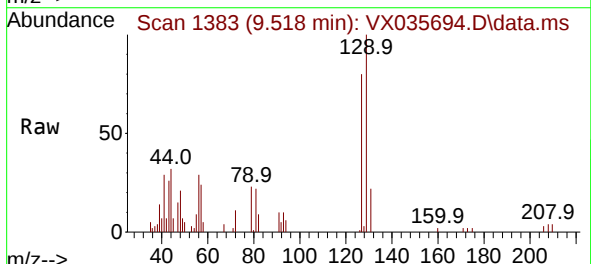
Instrument :
MSVOA_X
ClientSampleId :
002-1

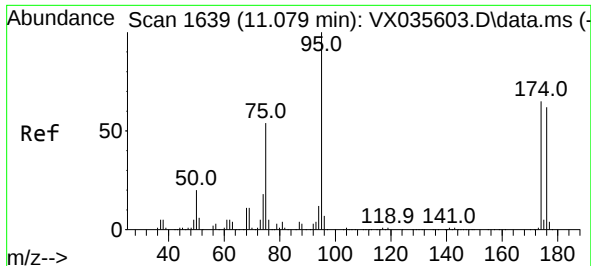
Tgt Ion: 97 Resp: 1376
Ion Ratio Lower Upper
97 100
83 0.0 69.7 104.5#
85 0.0 43.7 65.5#
99 0.0 49.7 74.5#



#60
Dibromochloromethane
Concen: 3.074 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.001 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion: 129 Resp: 6961
Ion Ratio Lower Upper
129 100
127 78.8 39.0 117.0

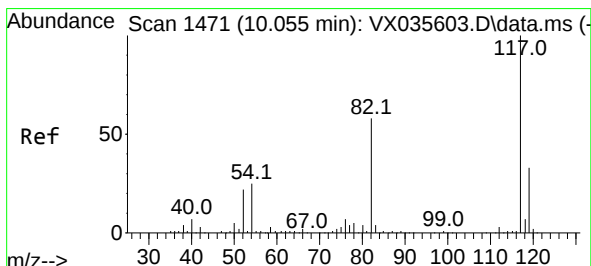
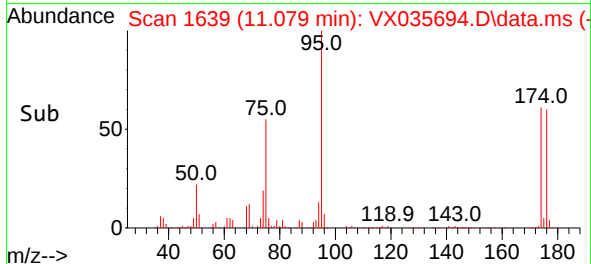
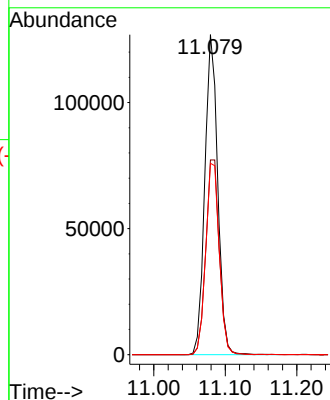
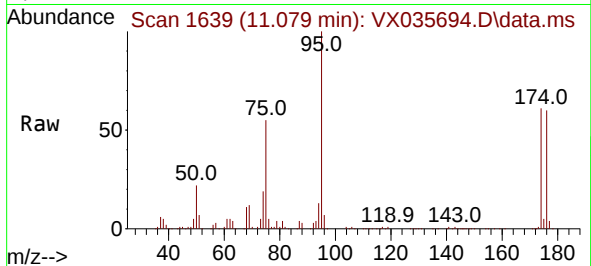




#62
4-Bromofluorobenzene
Concen: 49.225 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

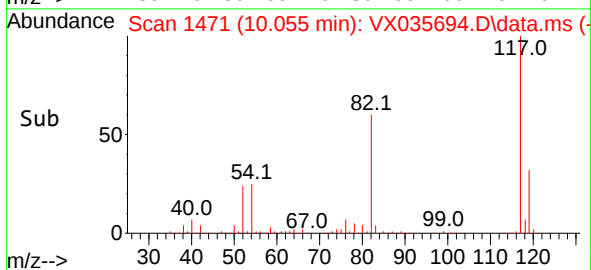
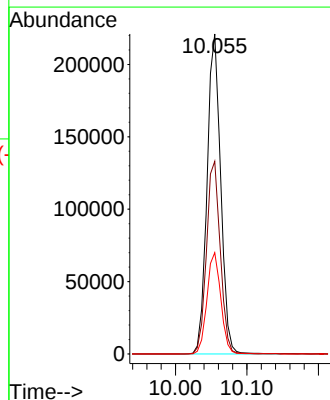
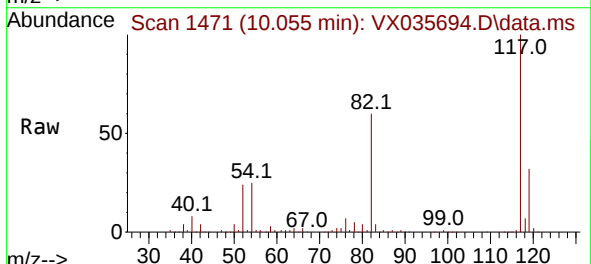
Instrument :
MSVOA_X
ClientSampleId :
002-1

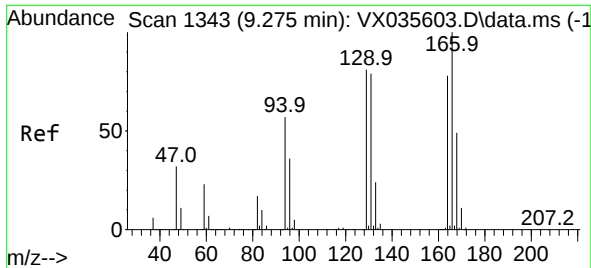
Tgt Ion: 95 Resp: 158876
Ion Ratio Lower Upper
95 100
174 64.1 0.0 147.4
176 63.1 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion: 117 Resp: 292152
Ion Ratio Lower Upper
117 100
82 60.2 45.0 67.4
119 31.6 26.0 39.0

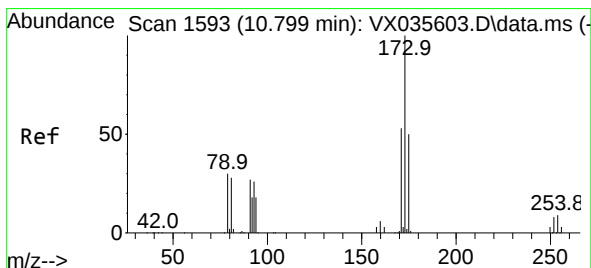
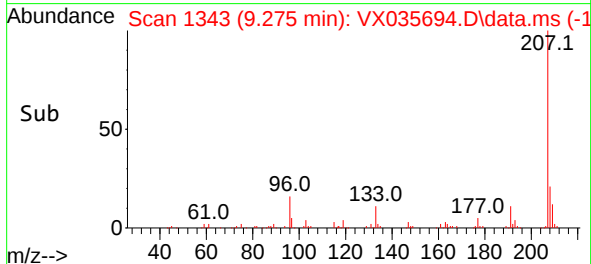
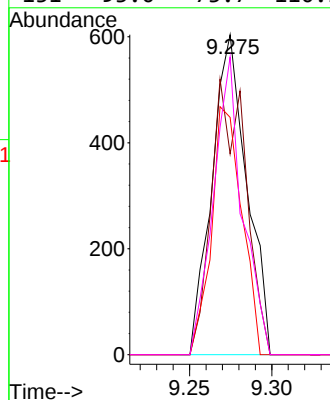
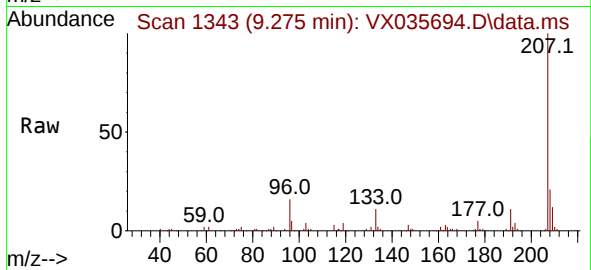




#64
Tetrachloroethene
Concen: 0.454 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

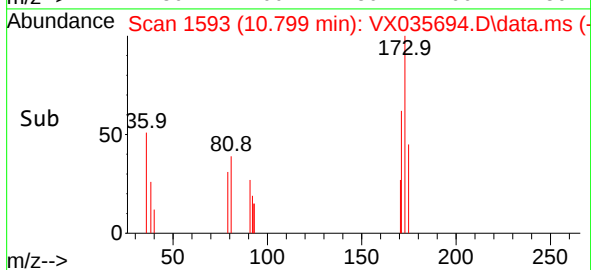
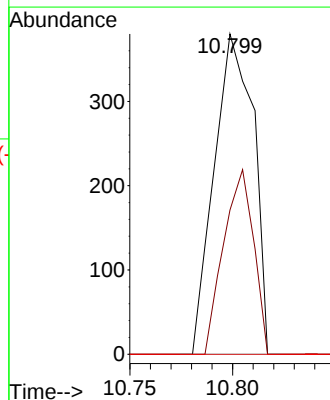
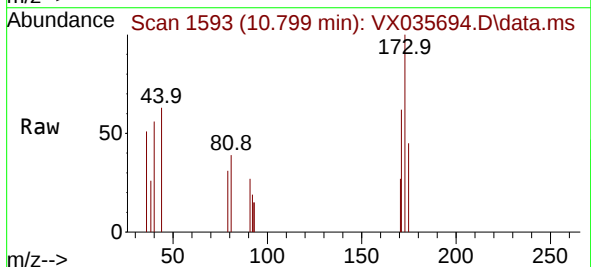
Instrument :
MSVOA_X
ClientSampleId :
002-1

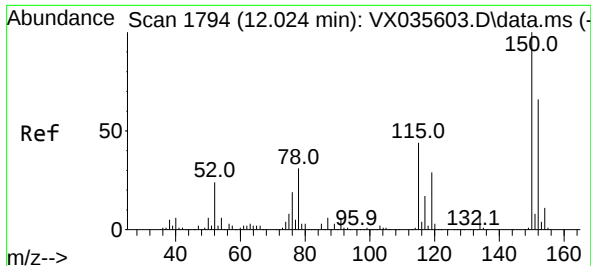
Tgt Ion:164	Resp:	892
Ion	Ratio	Lower Upper
164	100	
166	62.7	102.7 154.1#
129	74.2	75.6 113.4#
131	93.0	73.7 110.5



#71
Bromoform
Concen: 0.339 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX035694.D
Acq: 16 May 2023 16:26

Tgt Ion:173	Resp:	503
Ion	Ratio	Lower Upper
173	100	
175	44.1	24.1 72.4
254	0.0	0.1 0.1#

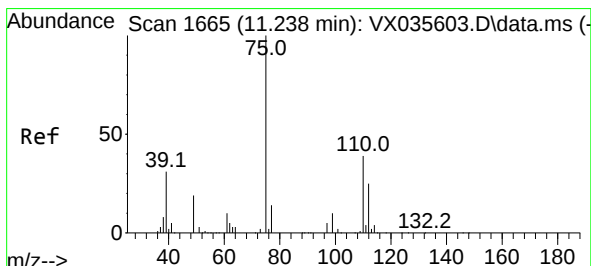
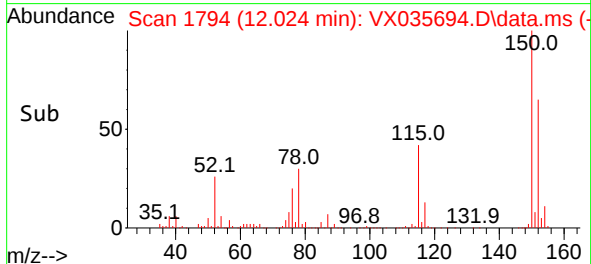
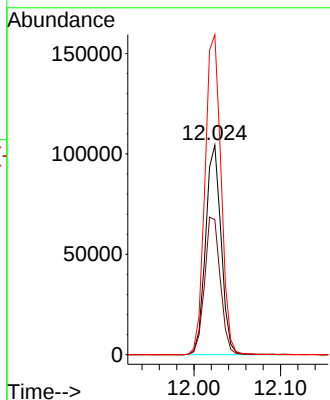
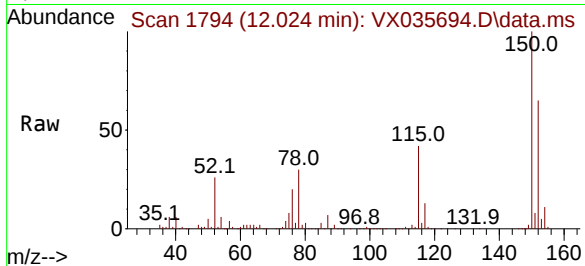




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX035694.D
 Acq: 16 May 2023 16:26

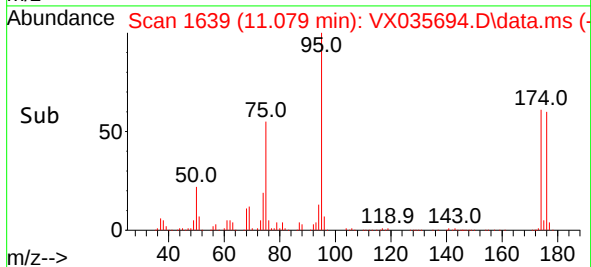
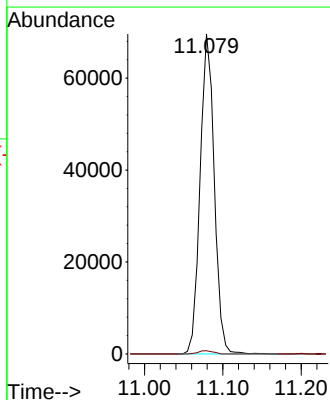
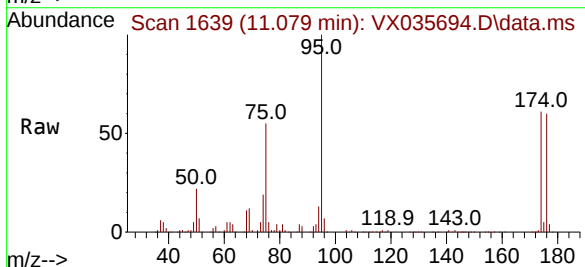
Instrument :
 MSVOA_X
 ClientSampleId :
 002-1

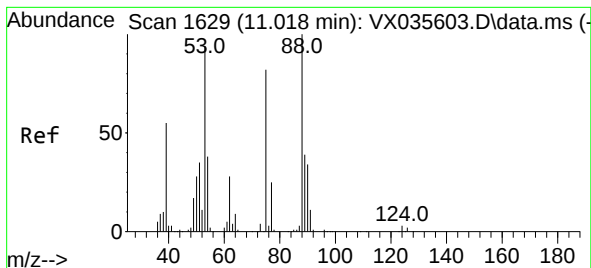
Tgt Ion:152 Resp: 129839
 Ion Ratio Lower Upper
 152 100
 115 66.6 45.0 135.0
 150 158.1 0.0 352.4



#76
 1,2,3-Trichloropropane
 Concen: 27.502 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX035694.D
 Acq: 16 May 2023 16:26

Tgt Ion: 75 Resp: 87343
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.6 64.8#

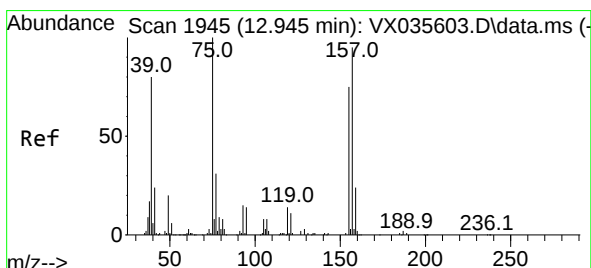
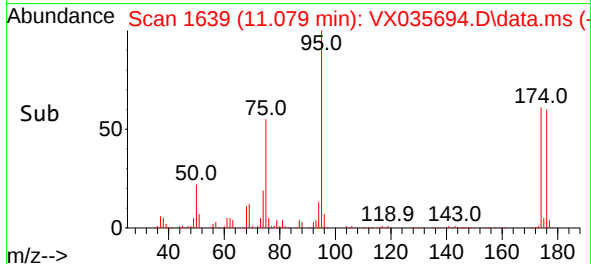
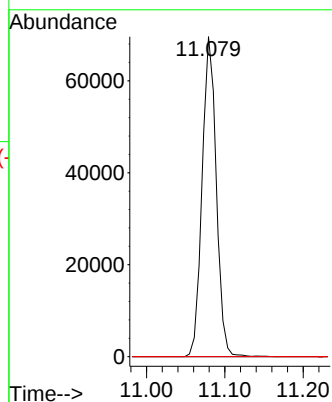
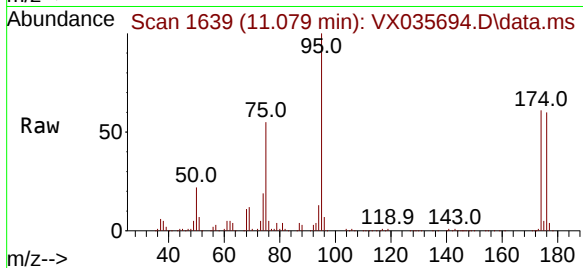




#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.634 ug/l
 RT: 11.079 min Scan# 1107
 Delta R.T. 0.061 min
 Lab File: VX035694.D
 Acq: 16 May 2023 16:26

Instrument :
 MSVOA_X
 ClientSampleId :
 002-1

Tgt Ion: 75 Resp: 87343
 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: 1.356 ug/l
 RT: 12.768 min Scan# 1916
 Delta R.T. -0.177 min
 Lab File: VX035694.D
 Acq: 16 May 2023 16:26

Tgt Ion: 75 Resp: 1072
 Ion Ratio Lower Upper
 75 100
 155 7.6 38.4 115.1#
 157 0.0 49.9 149.7#

