

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
 Data File : VX042304.D
 Acq On : 12 Jul 2024 15:49
 Operator : JC/MD
 Sample : PB162021ZHE#01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 15 04:44:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061824W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 23:51:58 2024
 Response via : Initial Calibration

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

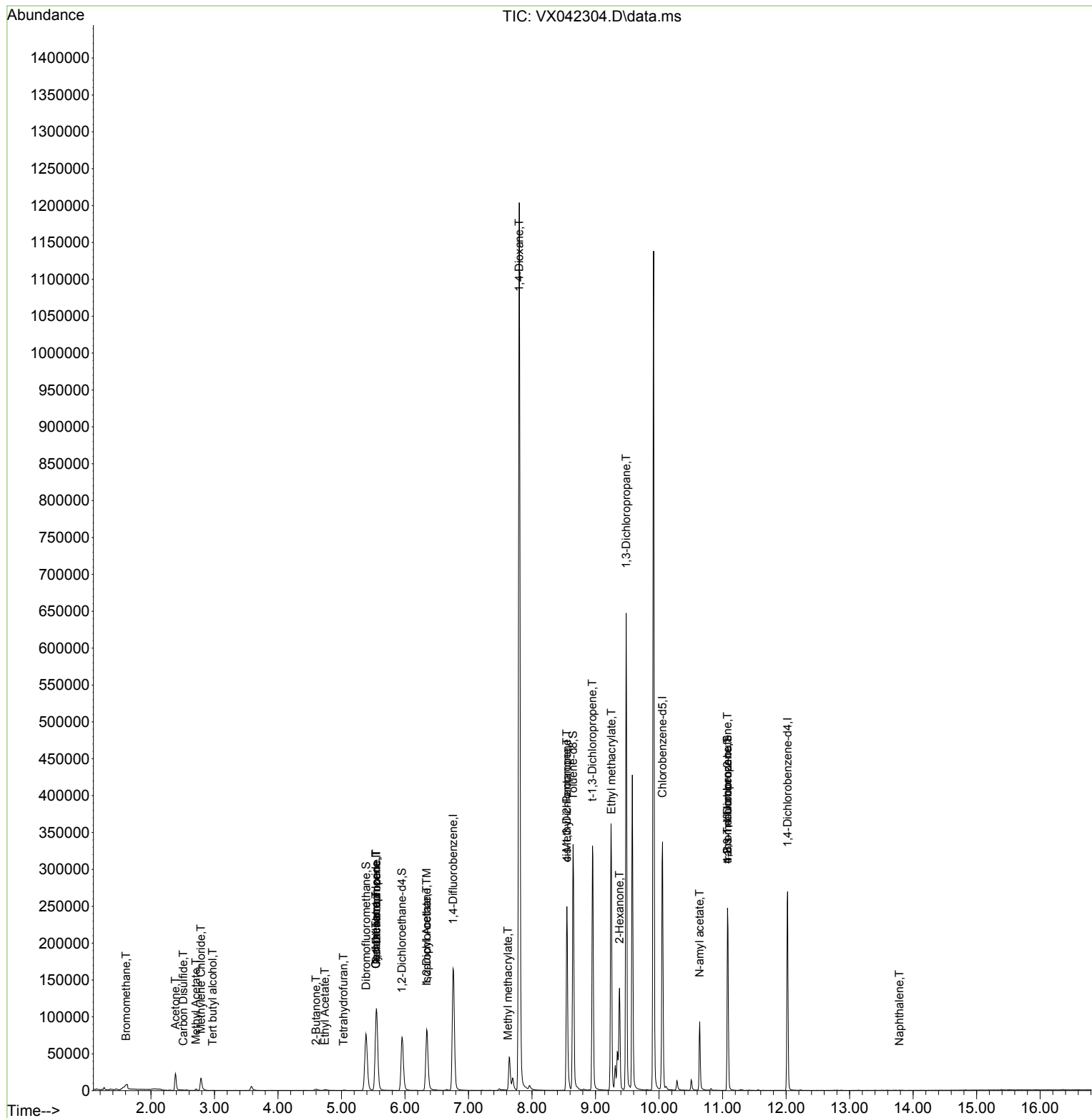
Internal Standards						
1) Pentafluorobenzene	5.550	168	124012	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.757	114	189854	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	162420	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	66630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70192	49.085	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.160%
35) Dibromofluoromethane	5.385	113	67151	49.848	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.700%
50) Toluene-d8	8.647	98	204702	43.255	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	86.500%#
62) 4-Bromofluorobenzene	11.079	95	66844	38.317	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	76.640%#
Target Compounds						
					Qvalue	
5) Bromomethane	1.605	94	283	0.482	ug/l	# 43
6) Chloroethane	1.636	64	98	Below Cal		# 43
11) Tert butyl alcohol	2.971	59	324	1.194	ug/l	# 78
16) Acetone	2.386	43	25372	40.406	ug/l	# 83
17) Carbon Disulfide	2.508	76	668	0.306	ug/l	# 76
18) Methyl Acetate	2.709	43	2475	1.445	ug/l	# 95
20) Methylene Chloride	2.788	84	9723	7.072	ug/l	# 84
25) 2-Butanone	4.599	43	2329	2.384	ug/l	# 93
29) Tetrahydrofuran	5.031	42	202	0.320	ug/l	# 91
31) Cyclohexane	5.544	56	1745	1.043	ug/l	# 1
36) 1,1-Dichloropropene	5.550	75	7109	4.970	ug/l	# 49
37) Ethyl Acetate	4.739	43	2692	1.445	ug/l	# 96
38) Carbon Tetrachloride	5.544	117	10563	6.683	ug/l	# 15
42) 1,2-Dichloroethane	6.342	62	376	0.242	ug/l	# 77
43) Isopropyl Acetate	6.342	43	113572	39.706	ug/l	# 93
48) Methyl methacrylate	7.622	41	3174	2.325	ug/l	# 16
49) 1,4-Dioxane	7.799	88	201	25.385	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.549	43	82191	41.715	ug/l	# 53
53) t-1,3-Dichloropropene	8.951	75	819	1.383	ug/l	# 43
54) cis-1,3-Dichloropropene	8.549	75	44835	25.806	ug/l	# 50
56) Ethyl methacrylate	9.250	69	1181	0.593	ug/l	# 1
57) 1,3-Dichloropropane	9.482	76	5802	2.806	ug/l	# 42
59) 2-Hexanone	9.378	43	108902	72.165	ug/l	# 26
74) N-amyl acetate	10.640	43	21650	12.030	ug/l	# 54
76) 1,2,3-Trichloropropane	11.079	75	30128	24.907	ug/l	# 39
81) trans-1,4-Dichloro-2-b...	11.079	75	30128	70.735	ug/l	# 5
95) Naphthalene	13.786	128	370	0.824	ug/l	# 69

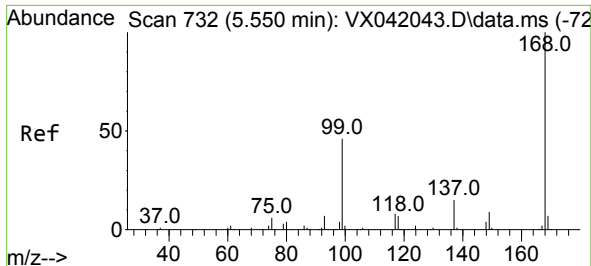
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
Data File : VX042304.D
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Sample : PB162021ZHE#01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

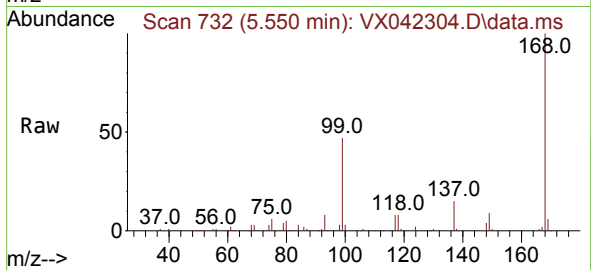
Quant Time: Jul 15 04:44:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061824W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 21 23:51:58 2024
Response via : Initial Calibration



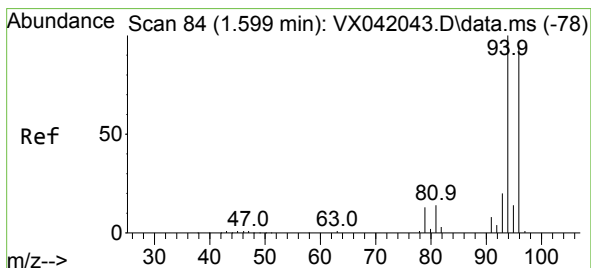
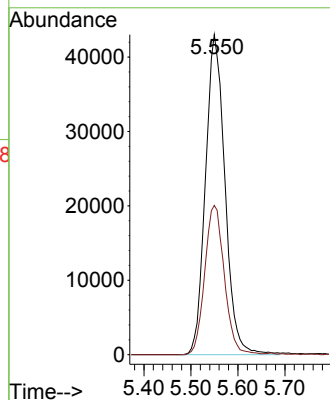
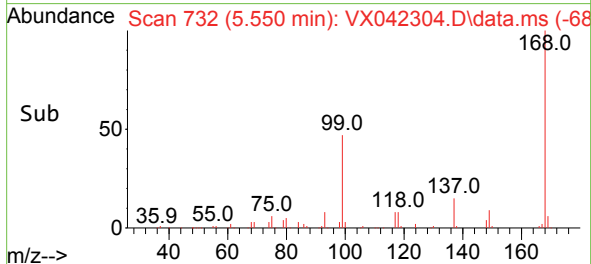


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Instrument :
MSVOA_X
ClientSampleId :

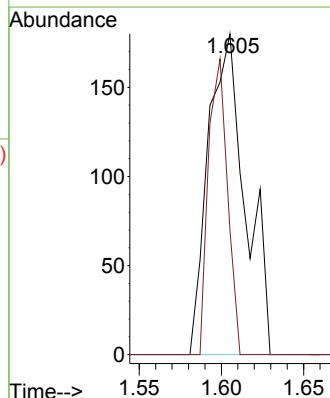
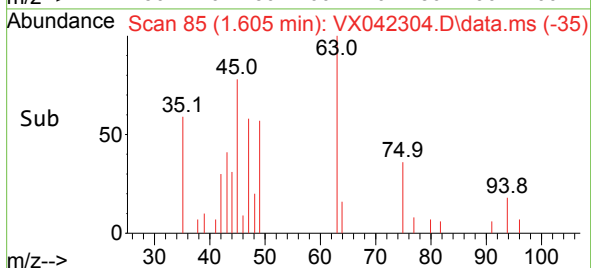
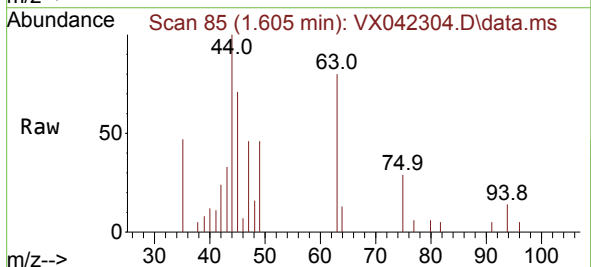


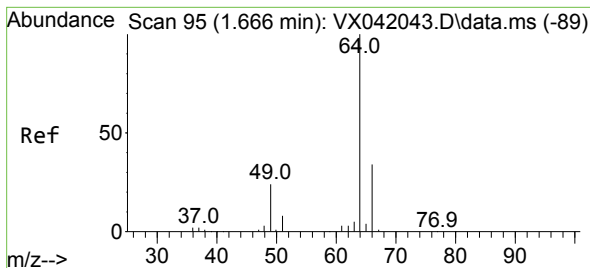
Tgt Ion:168 Resp: 124012
Ion Ratio Lower Upper
168 100
99 46.6 56.6 85.0#



#5
Bromomethane
Concen: 0.482 ug/l
RT: 1.605 min Scan# 85
Delta R.T. 0.006 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Tgt Ion: 94 Resp: 283
Ion Ratio Lower Upper
94 100
96 38.9 74.6 111.8#





#6

Chloroethane

Concen: Below Cal

RT: 1.636 min Scan# 90

Delta R.T. -0.024 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

Instrument :

MSVOA_X

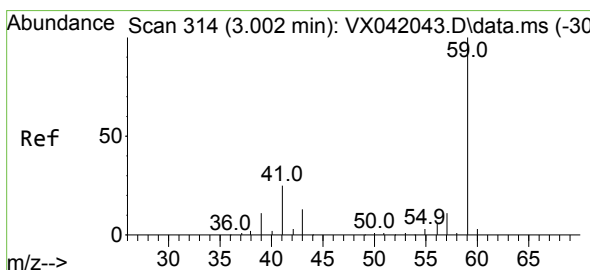
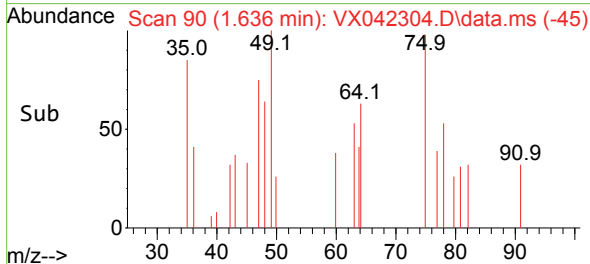
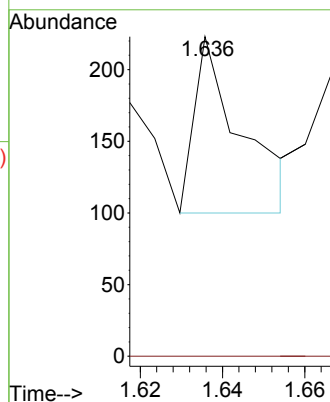
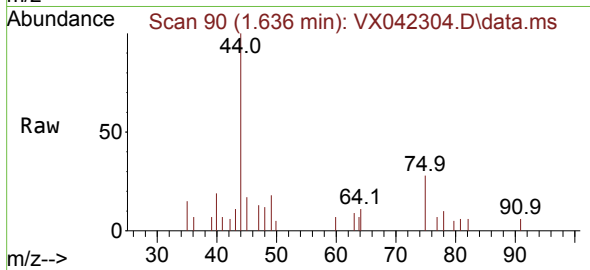
ClientSampleId :

Tgt Ion: 64 Resp: 98

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 1.194 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.037 min

Lab File: VX042304.D

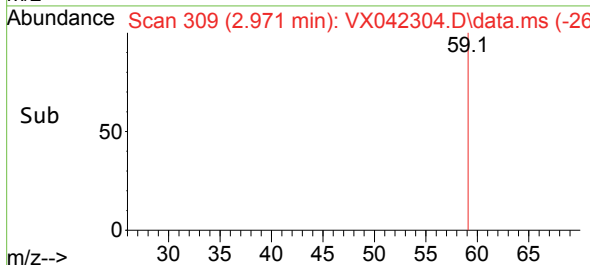
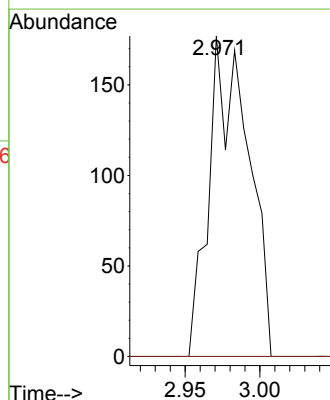
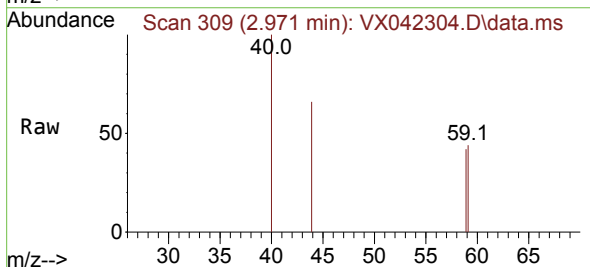
Acq: 12 Jul 2024 15:49

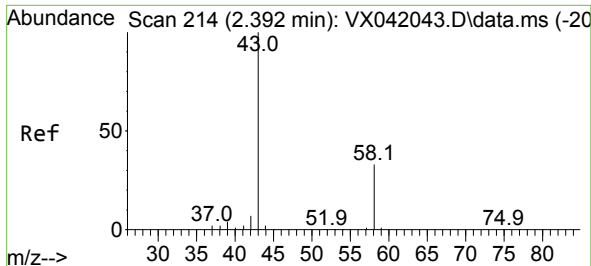
Tgt Ion: 59 Resp: 324

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#





#16

Acetone

Concen: 40.406 ug/l

RT: 2.386 min Scan# 214

Delta R.T. -0.012 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

Instrument :

MSVOA_X

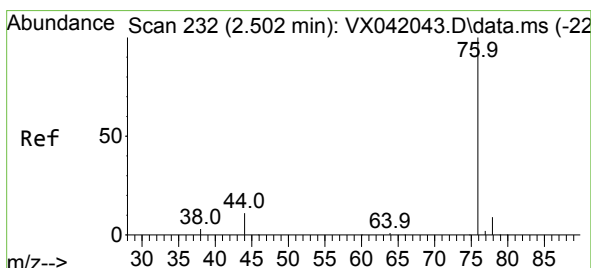
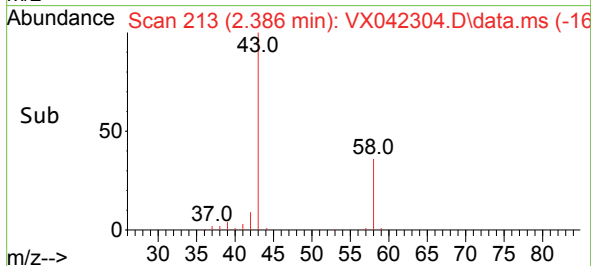
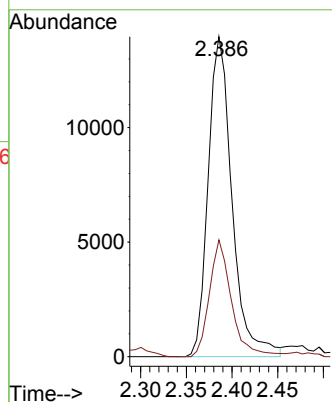
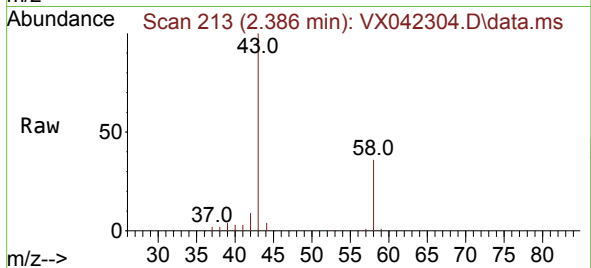
ClientSampleId :

Tgt Ion: 43 Resp: 25372

Ion Ratio Lower Upper

43 100

58 36.5 21.9 32.9#



#17

Carbon Disulfide

Concen: 0.306 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.006 min

Lab File: VX042304.D

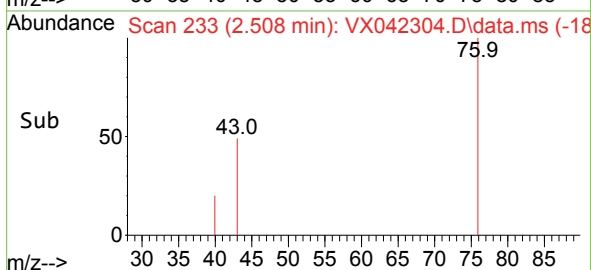
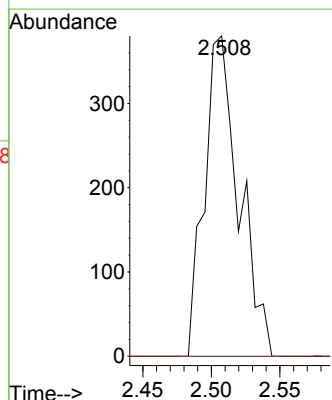
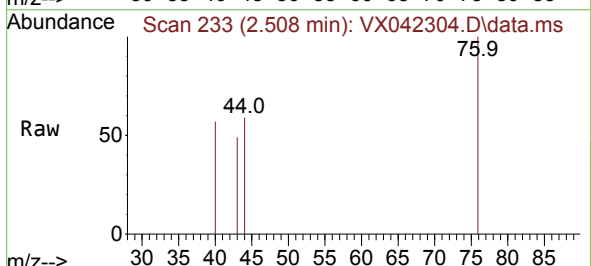
Acq: 12 Jul 2024 15:49

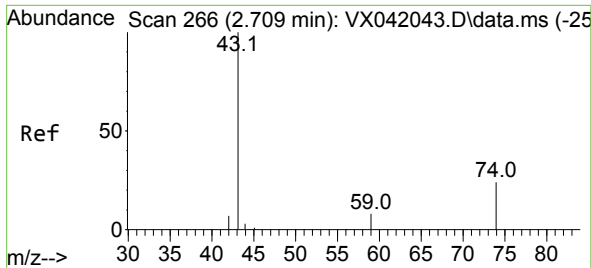
Tgt Ion: 76 Resp: 668

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

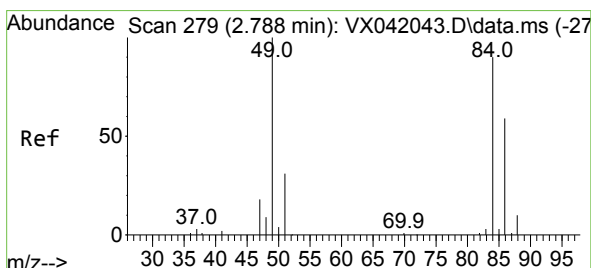
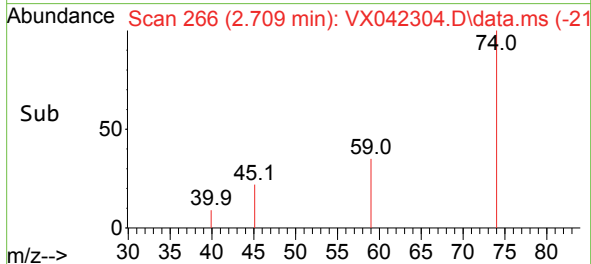
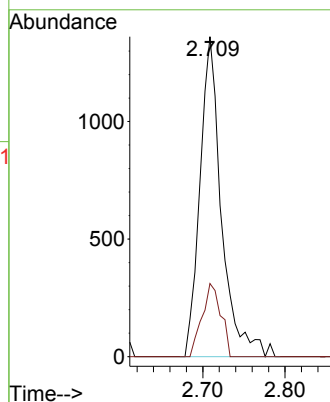
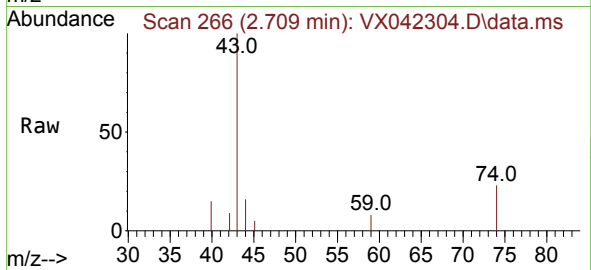




#18
Methyl Acetate
Concen: 1.445 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

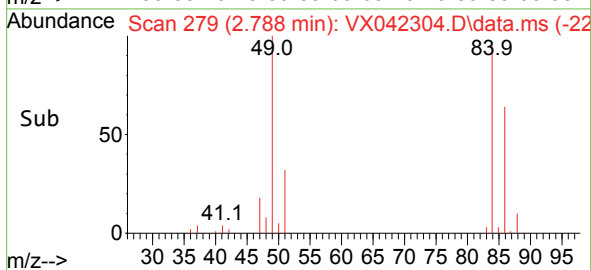
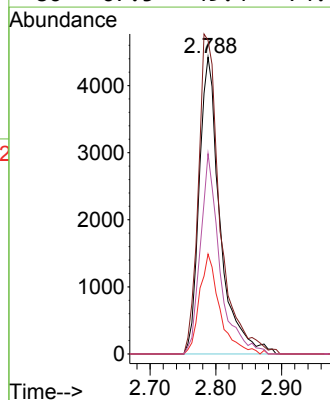
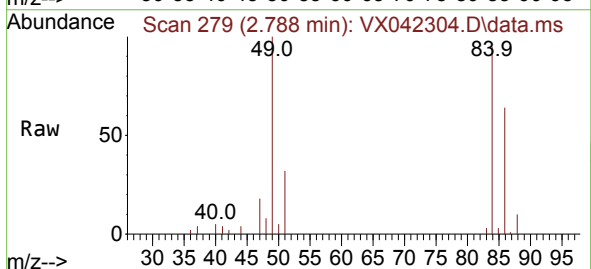
Instrument :
MSVOA_X
ClientSampleId :

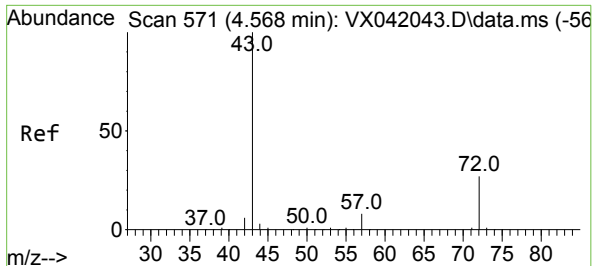
Tgt Ion: 43 Resp: 2475
Ion Ratio Lower Upper
43 100
74 19.9 17.8 26.8



#20
Methylene Chloride
Concen: 7.072 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Tgt Ion: 84 Resp: 9723
Ion Ratio Lower Upper
84 100
49 105.7 103.6 155.4
51 33.6 33.8 50.6#
86 67.5 49.4 74.0

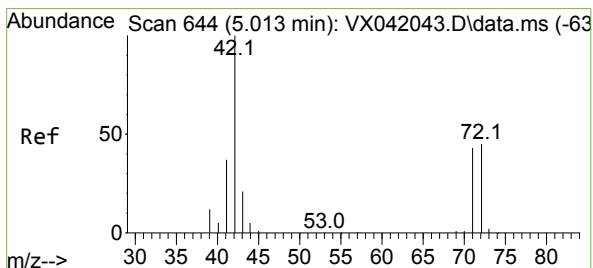
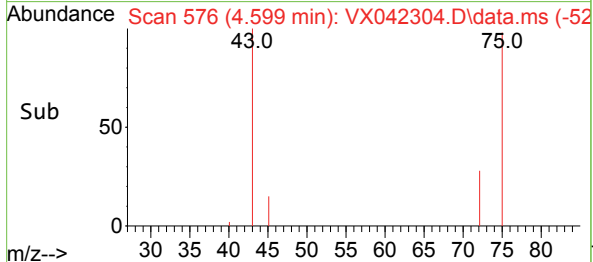
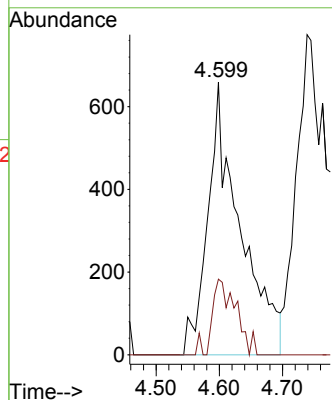
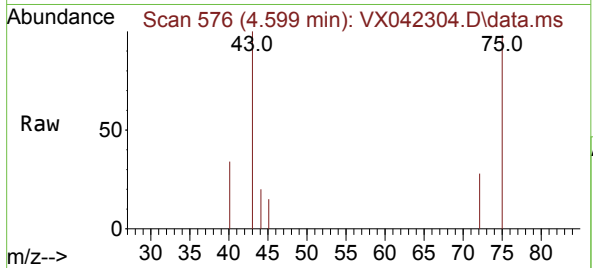




#25
2-Butanone
Concen: 2.384 ug/l
RT: 4.599 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

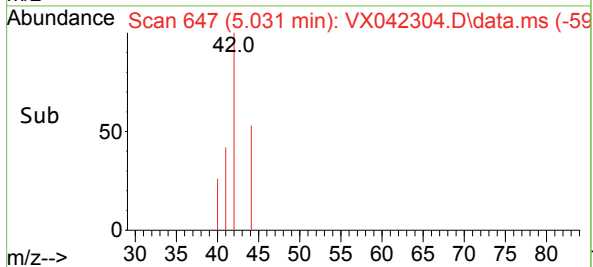
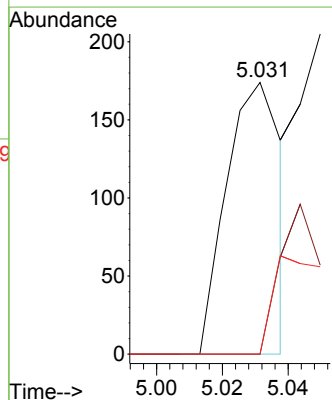
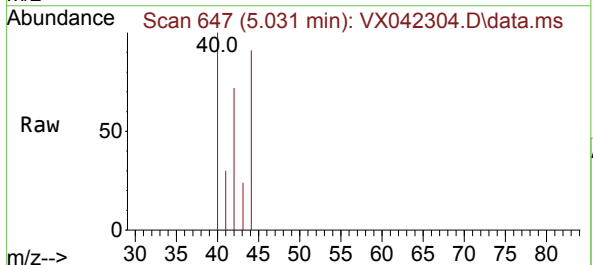
Instrument :
MSVOA_X
ClientSampleId :

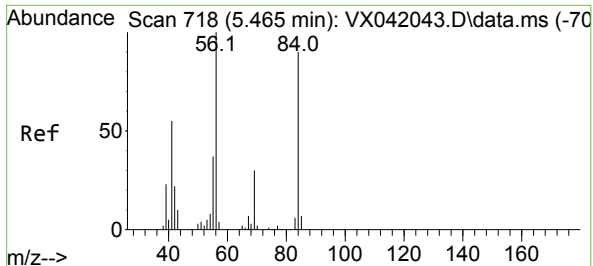
Tgt Ion: 43 Resp: 2329
Ion Ratio Lower Upper
43 100
72 27.8 19.4 29.2



#29
Tetrahydrofuran
Concen: 0.320 ug/l
RT: 5.031 min Scan# 647
Delta R.T. 0.012 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

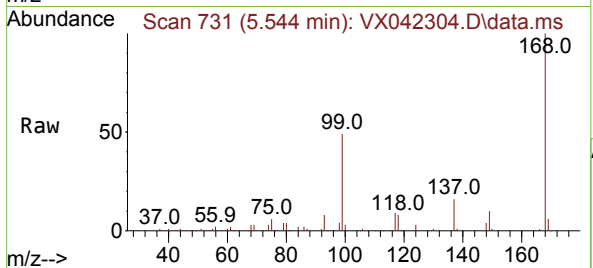
Tgt Ion: 42 Resp: 202
Ion Ratio Lower Upper
42 100
72 39.1 34.2 51.4
71 32.2 32.2 48.2



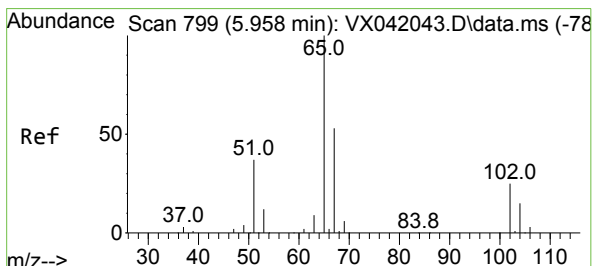
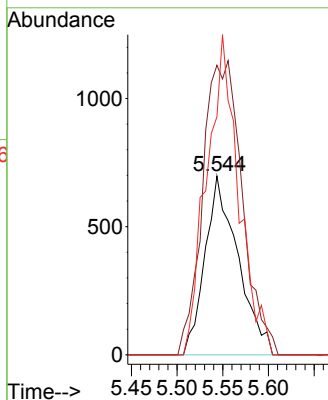
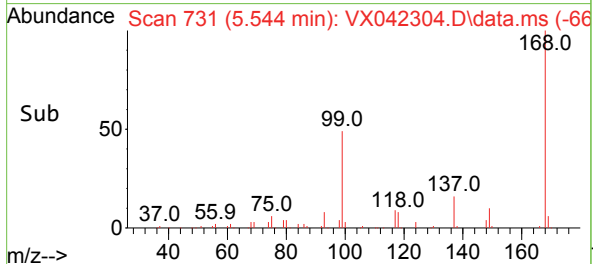


#31
Cyclohexane
Concen: 1.043 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Instrument :
MSVOA_X
ClientSampleId :

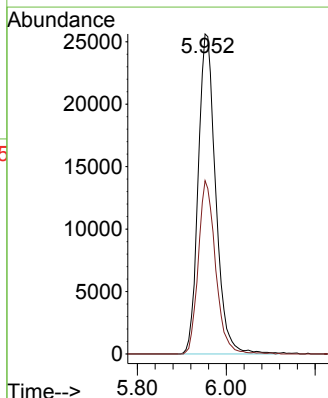
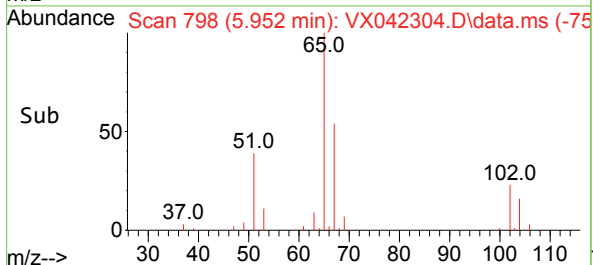
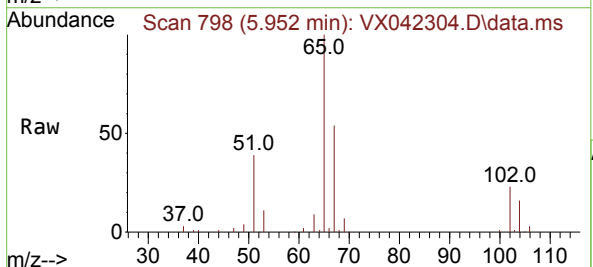


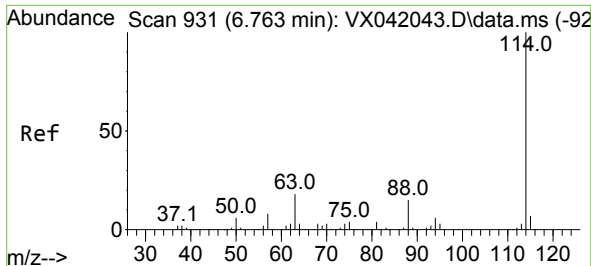
Tgt Ion: 56 Resp: 1745
Ion Ratio Lower Upper
56 100
69 162.1 23.4 35.2#
84 133.1 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 49.085 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Tgt Ion: 65 Resp: 70192
Ion Ratio Lower Upper
65 100
67 53.3 0.0 100.2

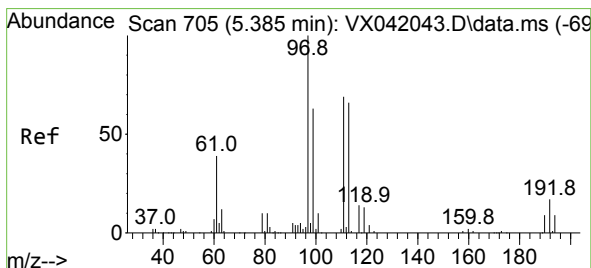
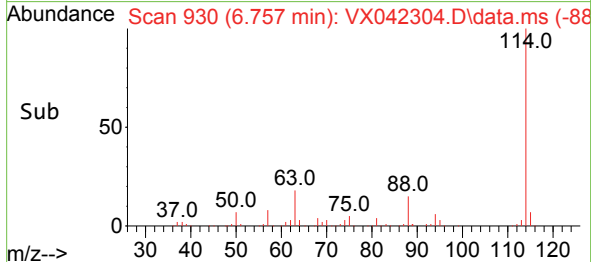
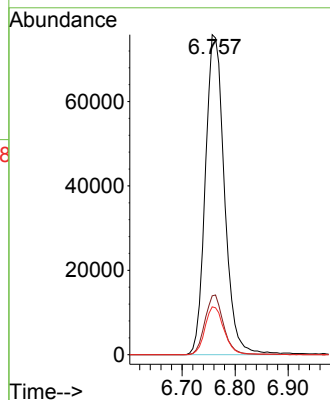
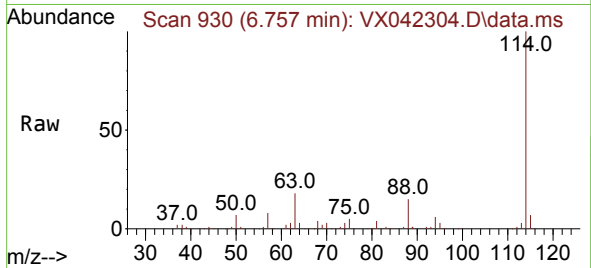




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

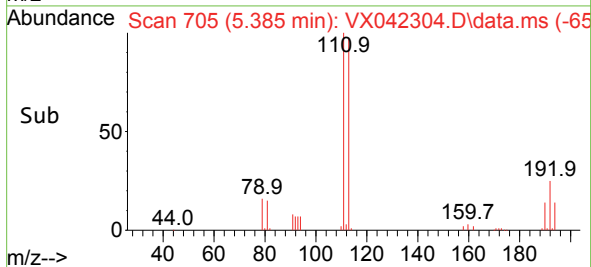
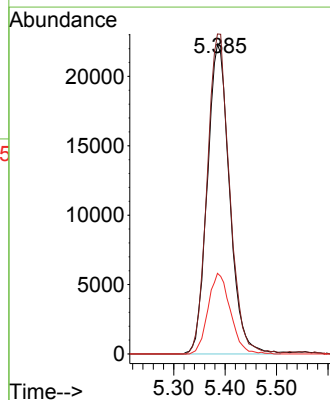
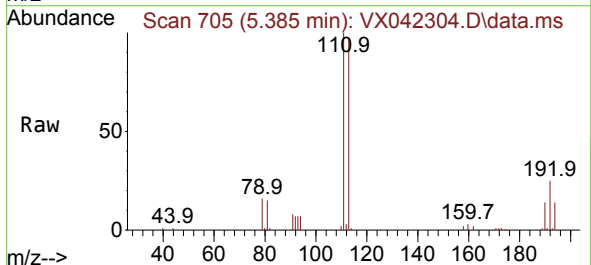
Instrument :
MSVOA_X
ClientSampleId :

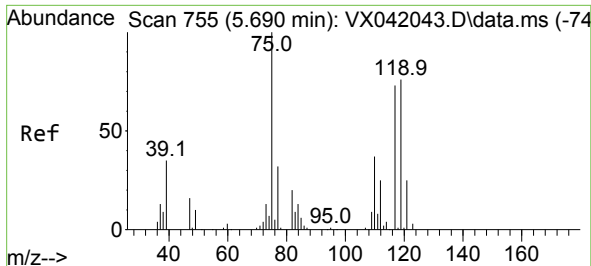
Tgt Ion:114 Resp: 189854
Ion Ratio Lower Upper
114 100
63 18.4 0.0 45.0
88 15.0 0.0 36.6



#35
Dibromofluoromethane
Concen: 49.848 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Tgt Ion:113 Resp: 67151
Ion Ratio Lower Upper
113 100
111 103.4 82.9 124.3
192 26.1 13.3 19.9#

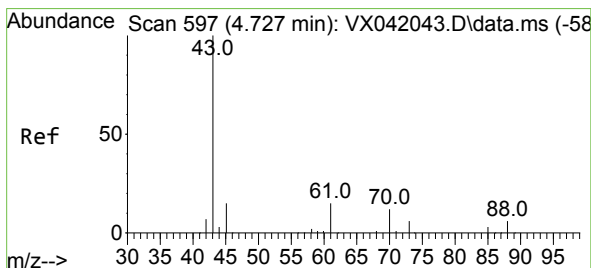
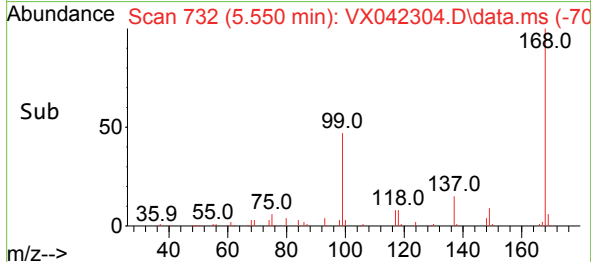
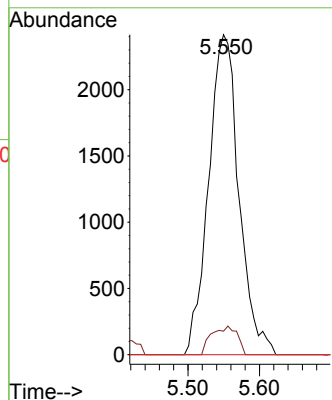
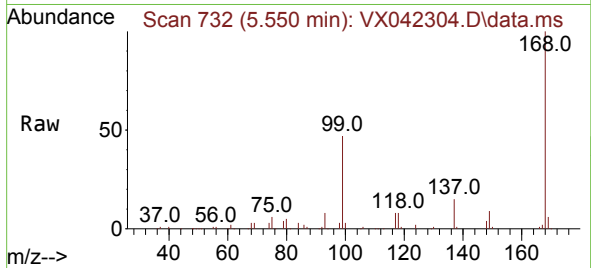




#36
1,1-Dichloropropene
Concen: 4.970 ug/l
RT: 5.550 min Scan# 710
Delta R.T. -0.140 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

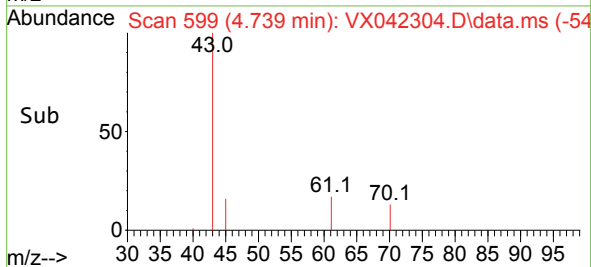
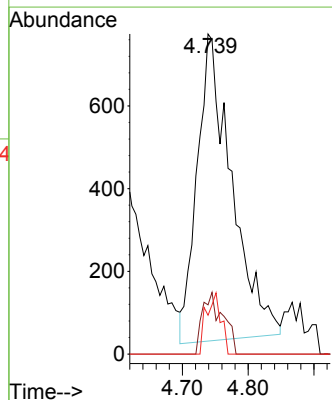
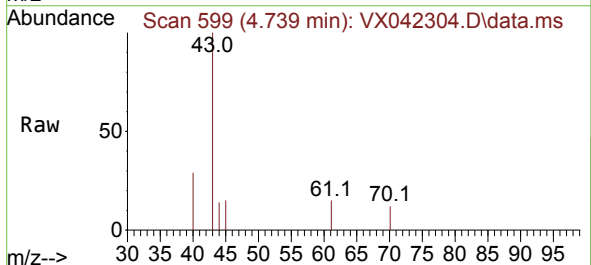
Instrument :
MSVOA_X
ClientSampleId :

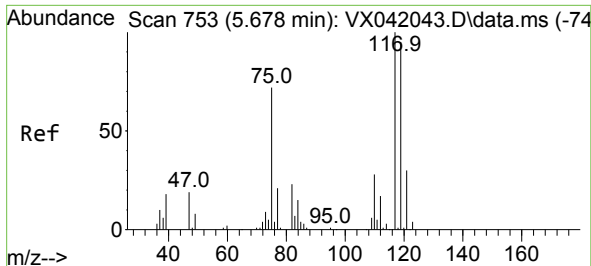
Tgt Ion: 75 Resp: 7109
Ion Ratio Lower Upper
75 100
110 7.5 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.445 ug/l
RT: 4.739 min Scan# 599
Delta R.T. 0.012 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

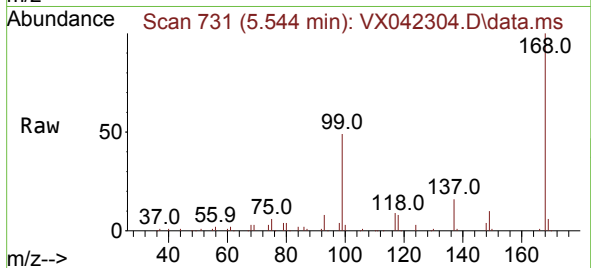
Tgt Ion: 43 Resp: 2692
Ion Ratio Lower Upper
43 100
61 12.1 10.6 16.0
70 8.5 8.3 12.5



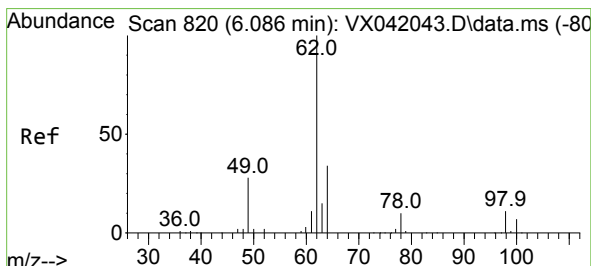
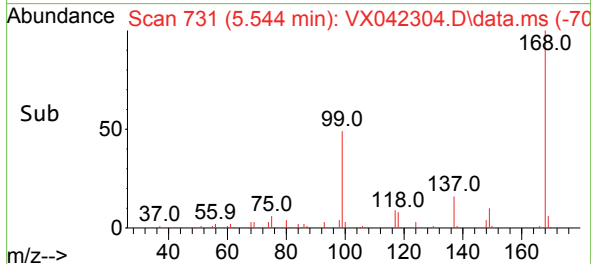
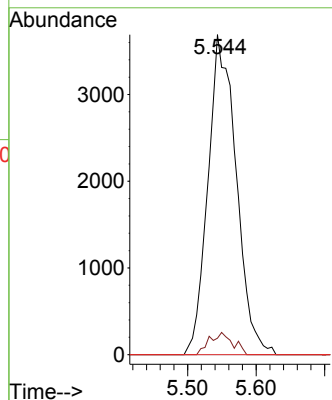


#38
Carbon Tetrachloride
Concen: 6.683 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Instrument :
MSVOA_X
ClientSampleId :

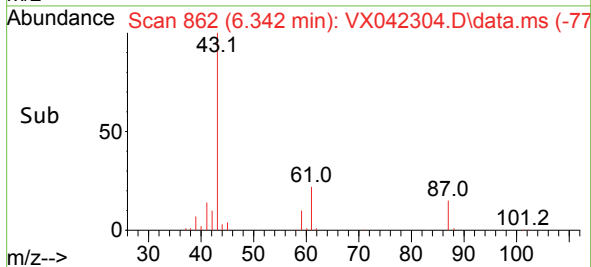
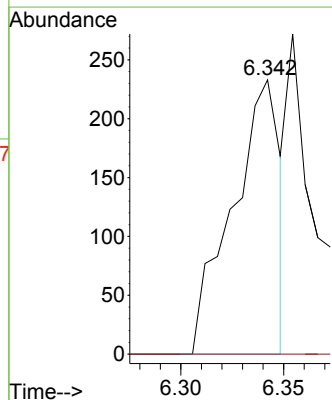
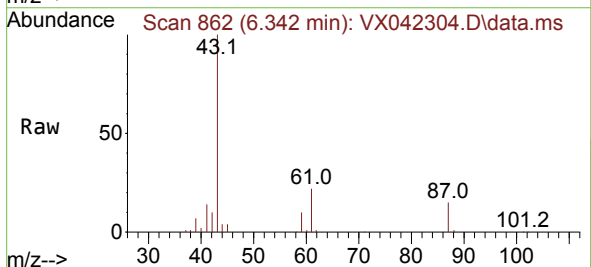


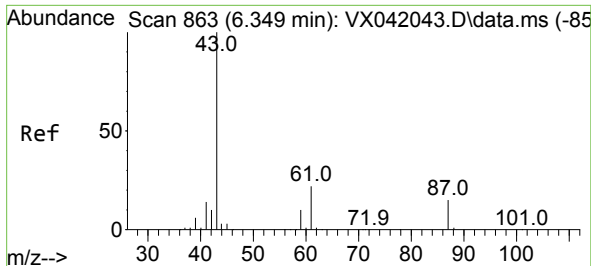
Tgt Ion:117 Resp: 10563
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.2#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.242 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.256 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

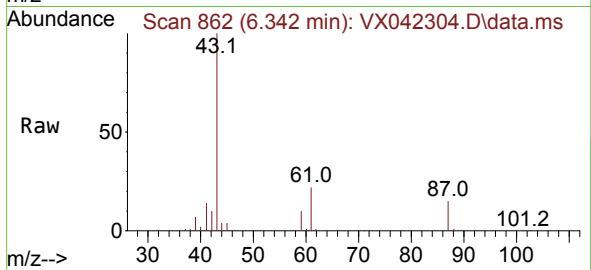
Tgt Ion: 62 Resp: 376
Ion Ratio Lower Upper
62 100
98 0.0 0.0 16.0



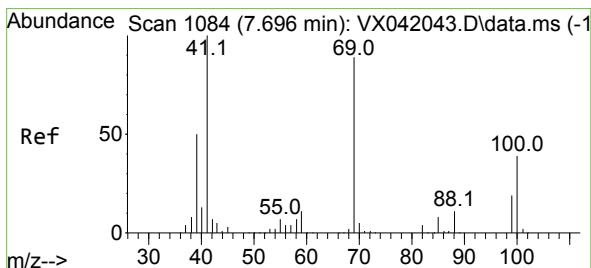
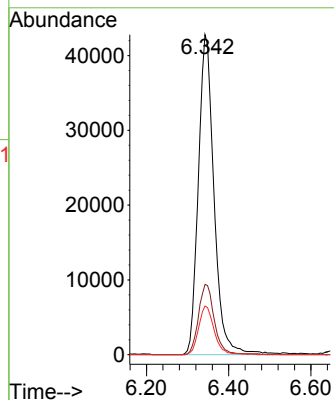
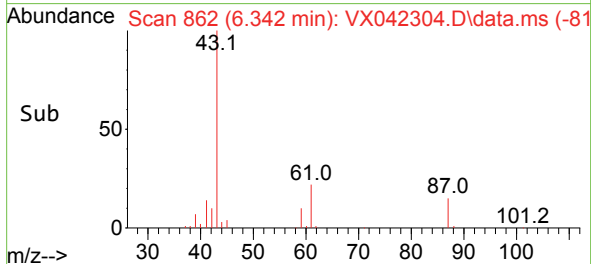


#43
Isopropyl Acetate
Concen: 39.706 ug/l
RT: 6.342 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Instrument :
MSVOA_X
ClientSampleId :

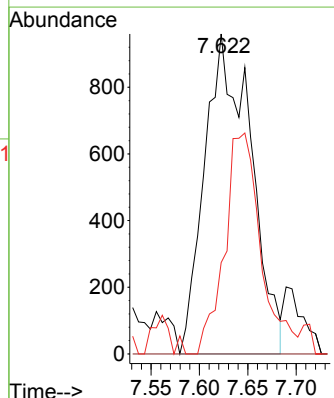
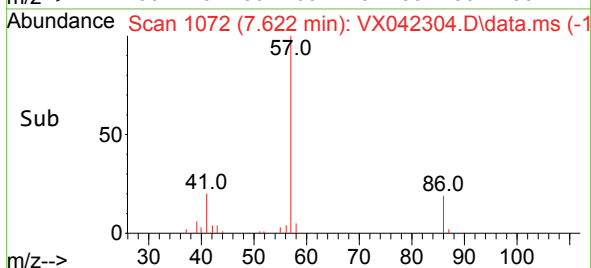
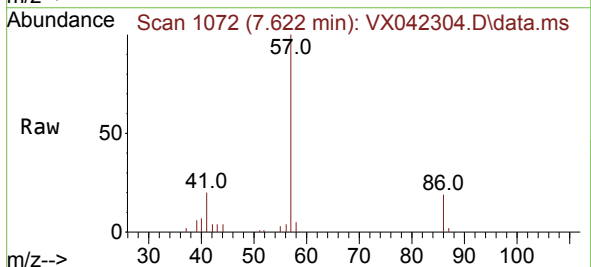


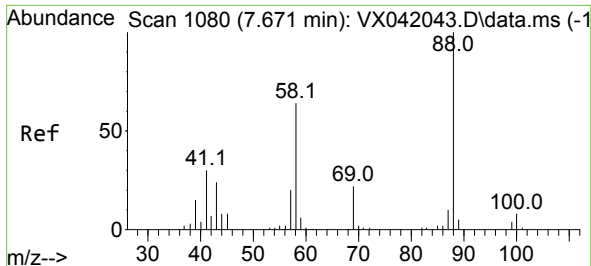
Tgt Ion: 43 Resp: 113572
Ion Ratio Lower Upper
43 100
61 22.2 15.2 22.8
87 14.9 9.8 14.6#



#48
Methyl methacrylate
Concen: 2.325 ug/l
RT: 7.622 min Scan# 1072
Delta R.T. -0.073 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

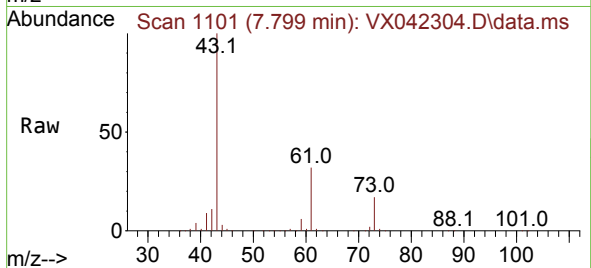
Tgt Ion: 41 Resp: 3174
Ion Ratio Lower Upper
41 100
69 0.0 59.2 88.8#
39 0.0 47.7 71.5#



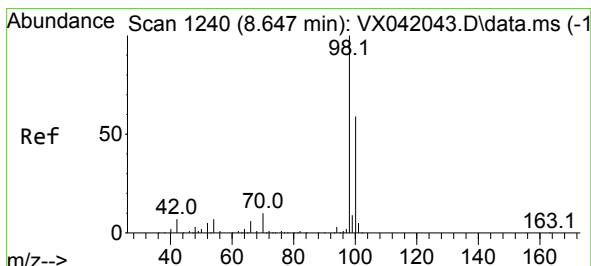
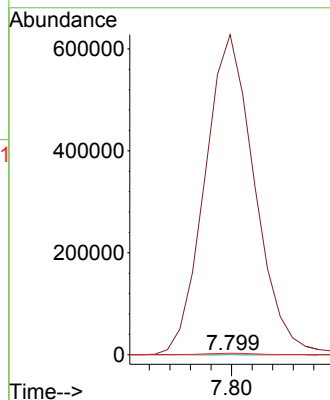
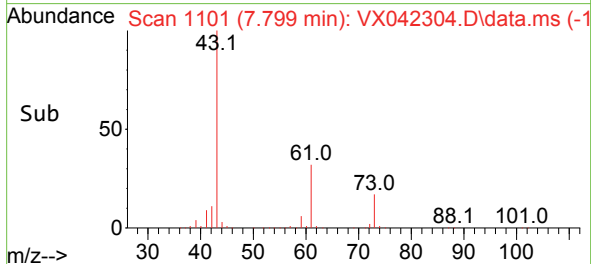


#49
1,4-Dioxane
Concen: 25.385 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.134 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Instrument :
MSVOA_X
ClientSampleId :

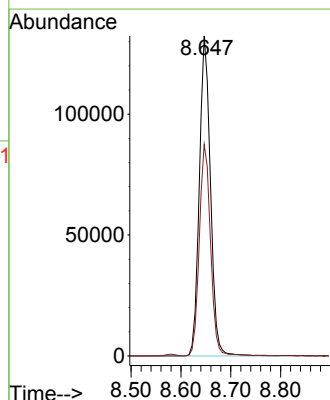
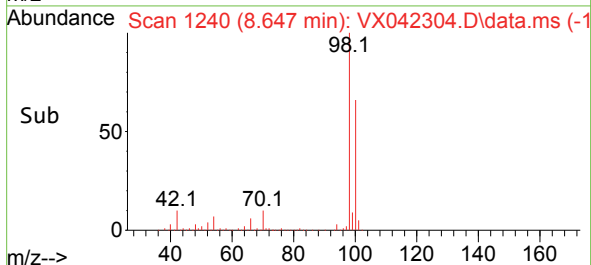
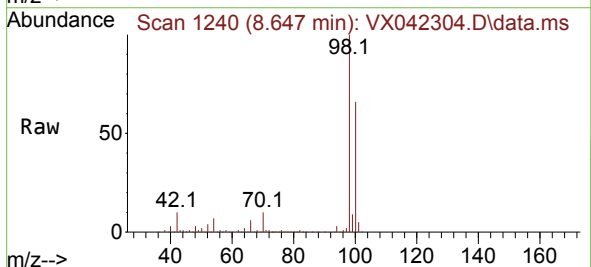


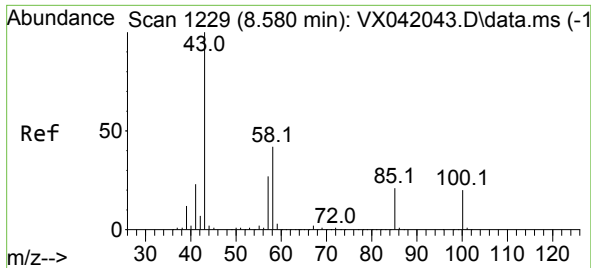
Tgt Ion: 88 Resp: 201
Ion Ratio Lower Upper
88 100
43 534295.5 0.0 0.0#
58 2455.7 60.1 90.1#



#50
Toluene-d8
Concen: 43.255 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Tgt Ion: 98 Resp: 204702
Ion Ratio Lower Upper
98 100
100 66.9 53.1 79.7

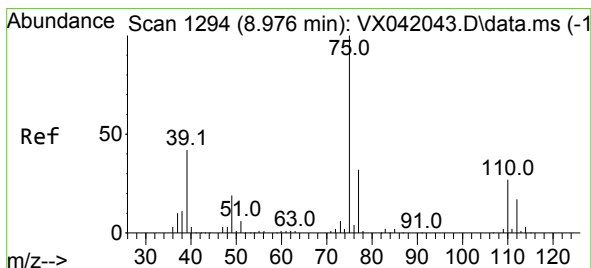
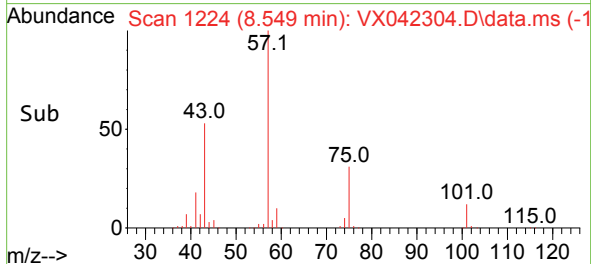
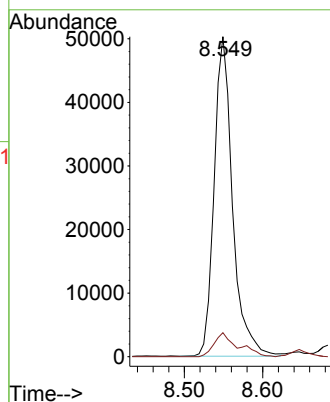
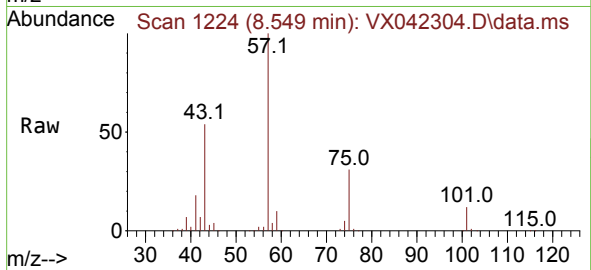




#51
4-Methyl-2-Pentanone
Concen: 41.715 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.031 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

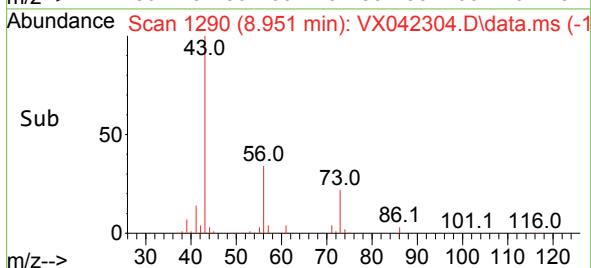
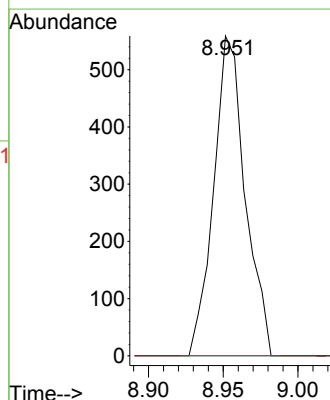
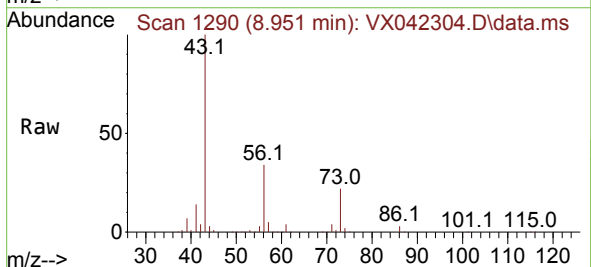
Instrument :
MSVOA_X
ClientSampleId :

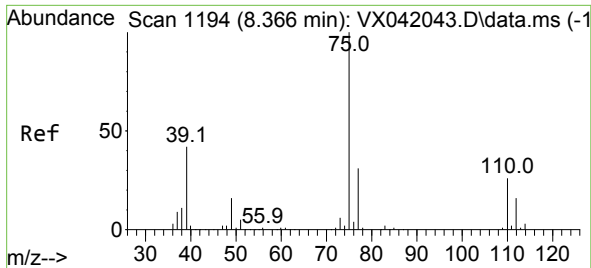
Tgt Ion: 43 Resp: 82191
Ion Ratio Lower Upper
43 100
58 9.7 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 1.383 ug/l
RT: 8.951 min Scan# 1290
Delta R.T. -0.031 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Tgt Ion: 75 Resp: 819
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#

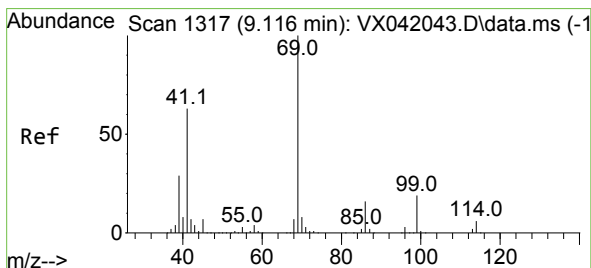
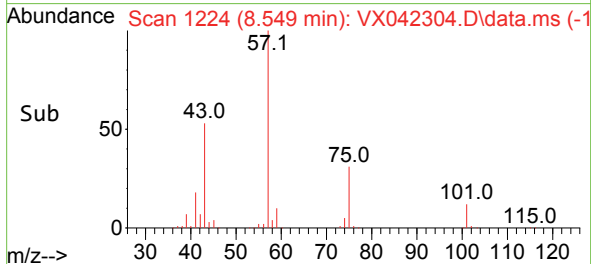
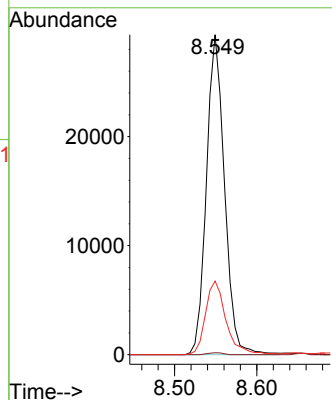
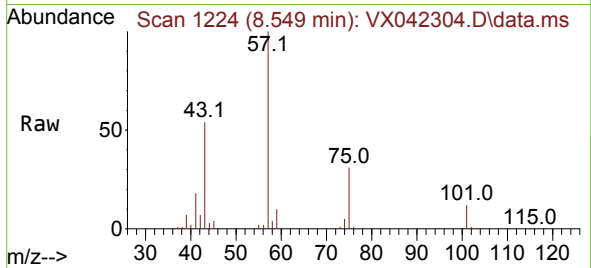




#54
 cis-1,3-Dichloropropene
 Concen: 25.806 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX042304.D
 Acq: 12 Jul 2024 15:49

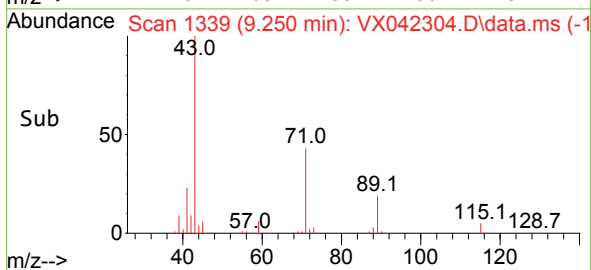
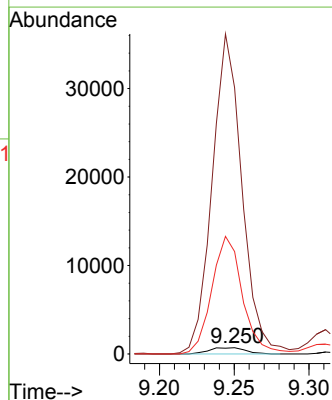
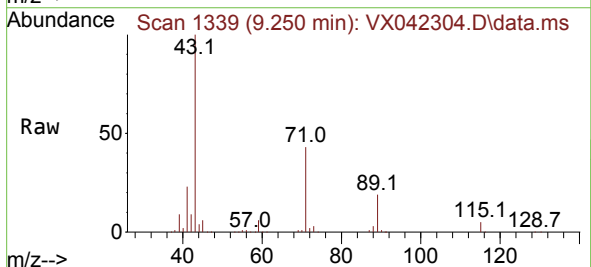
Instrument :
 MSVOA_X
 ClientSampleId :

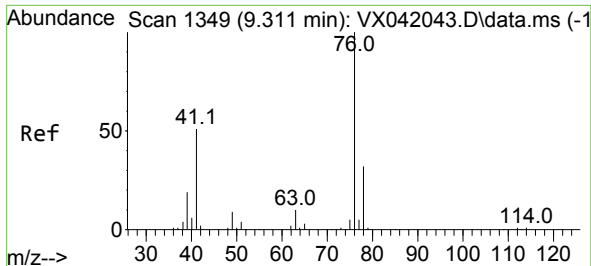
Tgt Ion: 75 Resp: 44835
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.3 37.9#
 39 23.0 46.7 70.1#



#56
 Ethyl methacrylate
 Concen: 0.593 ug/l
 RT: 9.250 min Scan# 1339
 Delta R.T. 0.128 min
 Lab File: VX042304.D
 Acq: 12 Jul 2024 15:49

Tgt Ion: 69 Resp: 1181
 Ion Ratio Lower Upper
 69 100
 41 4246.6 56.8 85.2#
 39 1608.1 32.0 48.0#





#57

1,3-Dichloropropane

Concen: 2.806 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

Instrument :

MSVOA_X

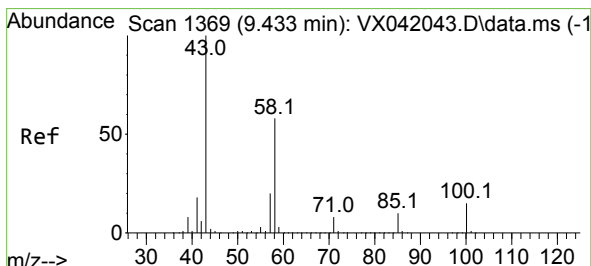
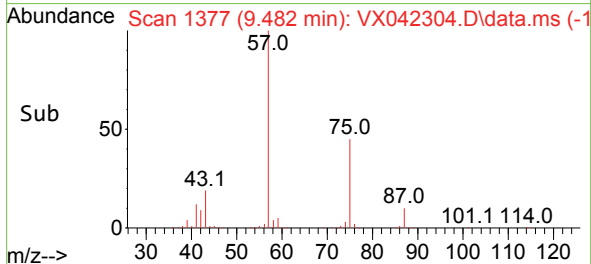
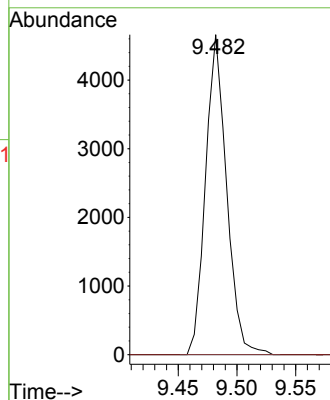
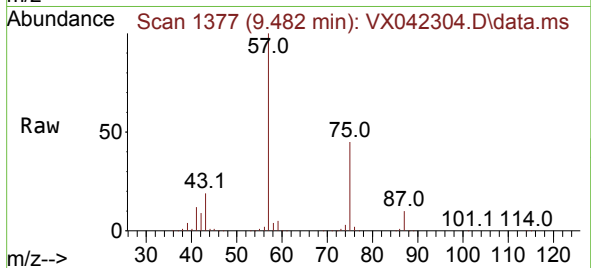
ClientSampleId :

Tgt Ion: 76 Resp: 5802

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 72.165 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.055 min

Lab File: VX042304.D

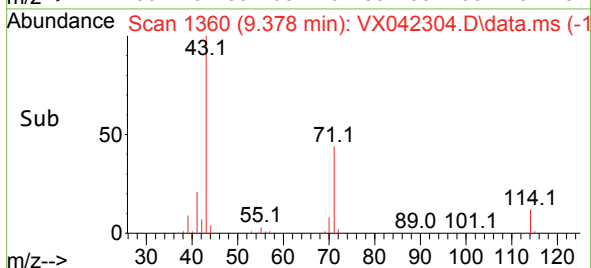
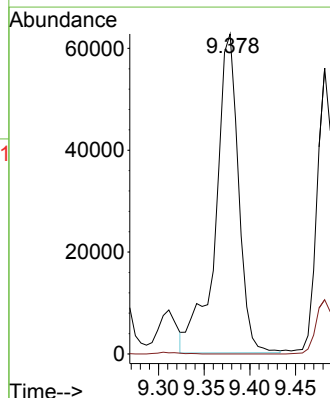
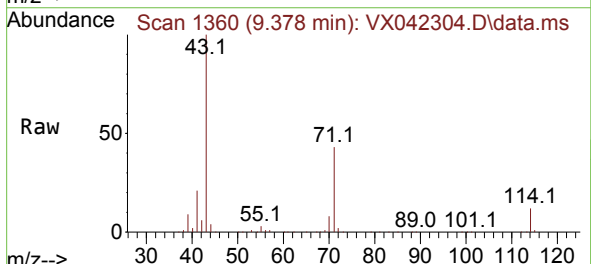
Acq: 12 Jul 2024 15:49

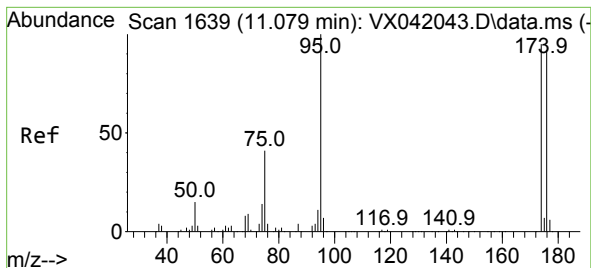
Tgt Ion: 43 Resp: 108902

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#





#62

4-Bromofluorobenzene

Concen: 38.317 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

Instrument :

MSVOA_X

ClientSampleId :

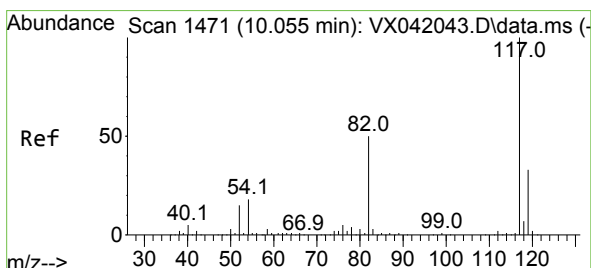
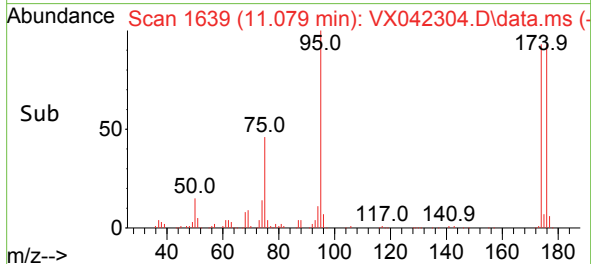
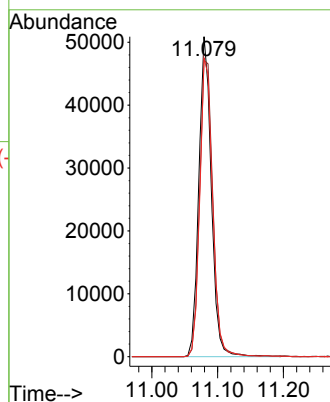
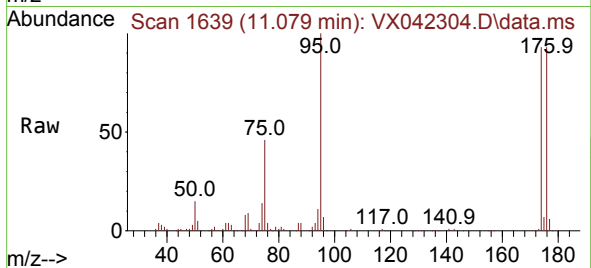
Tgt Ion: 95 Resp: 66844

Ion Ratio Lower Upper

95 100

174 98.2 0.0 135.6

176 95.9 0.0 131.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

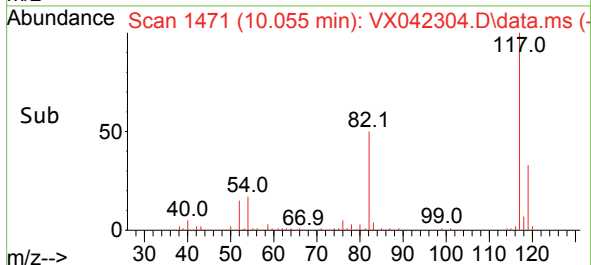
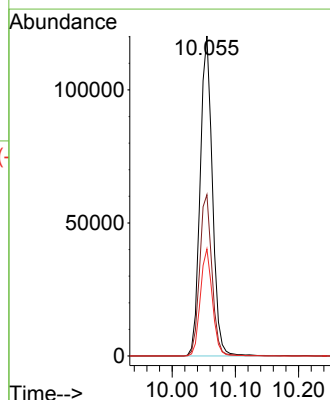
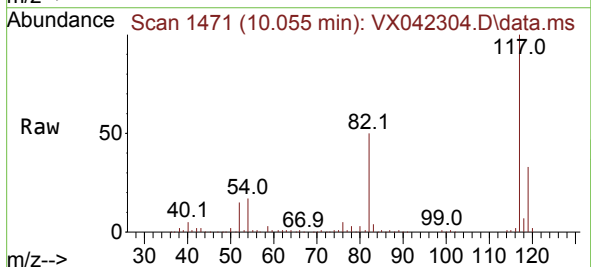
Tgt Ion: 117 Resp: 162420

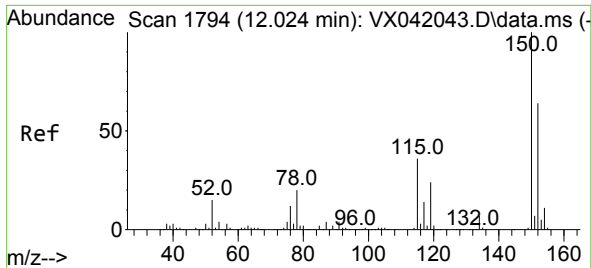
Ion Ratio Lower Upper

117 100

82 50.4 46.2 69.4

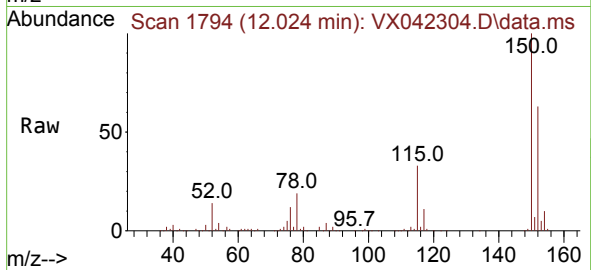
119 33.4 25.5 38.3



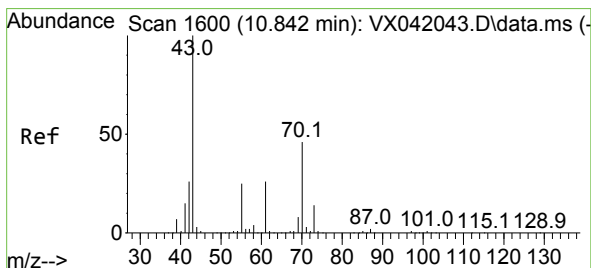
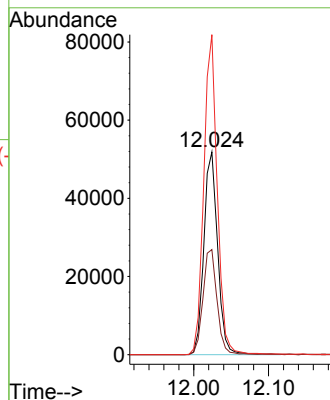
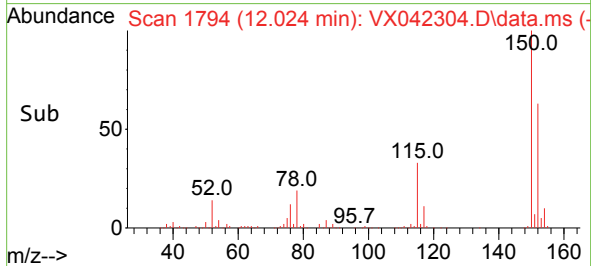


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

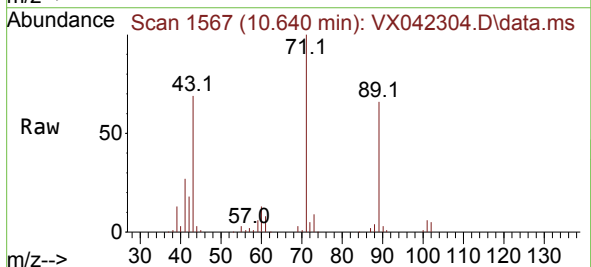
Instrument :
MSVOA_X
ClientSampleId :



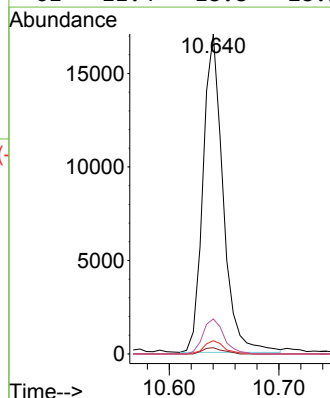
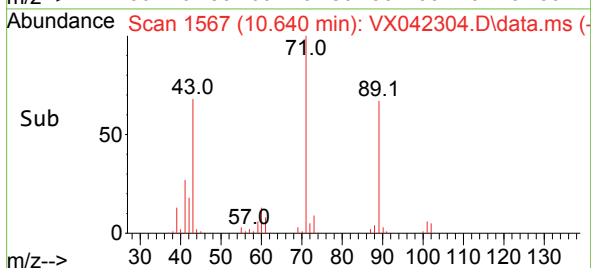
Tgt Ion:152 Resp: 66630
Ion Ratio Lower Upper
152 100
115 52.8 43.3 129.9
150 154.1 0.0 345.0

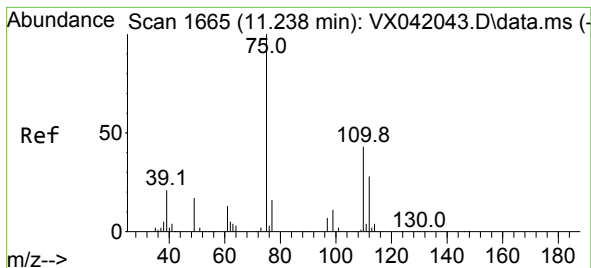


#74
N-ethyl acetate
Concen: 12.030 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.201 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49



Tgt Ion: 43 Resp: 21650
Ion Ratio Lower Upper
43 100
70 2.0 32.9 49.3#
55 4.2 19.3 28.9#
61 11.4 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 24.907 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

Instrument :

MSVOA_X

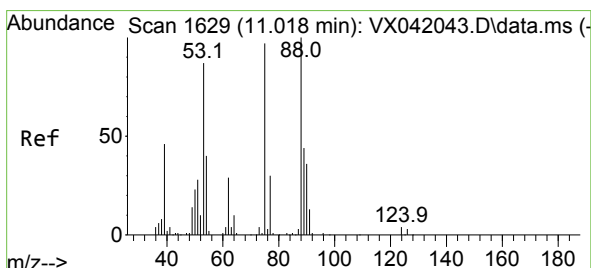
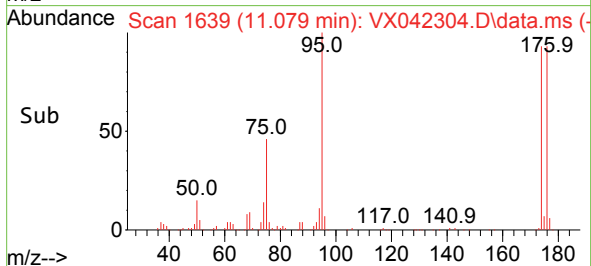
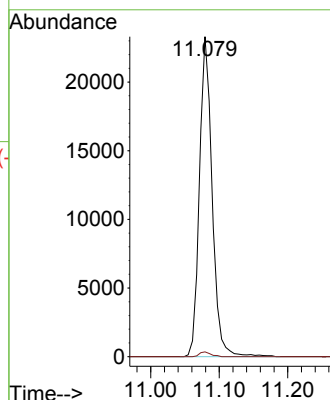
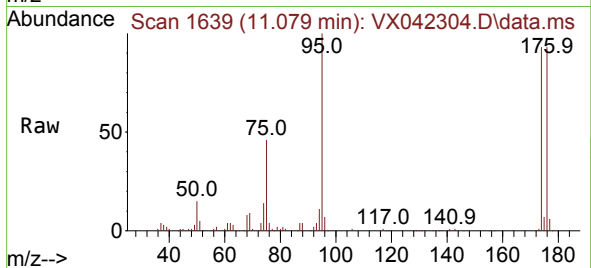
ClientSampleId :

Tgt Ion: 75 Resp: 30128

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.735 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042304.D

Acq: 12 Jul 2024 15:49

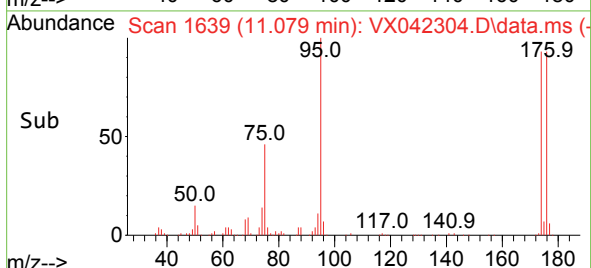
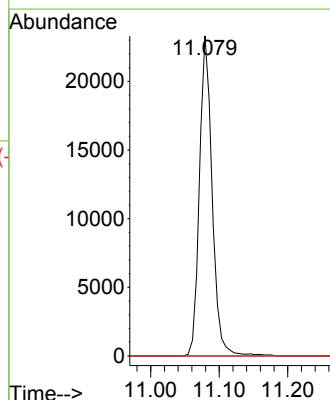
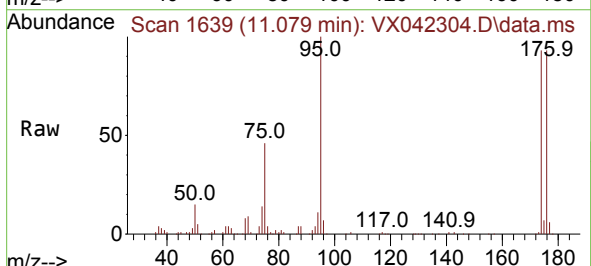
Tgt Ion: 75 Resp: 30128

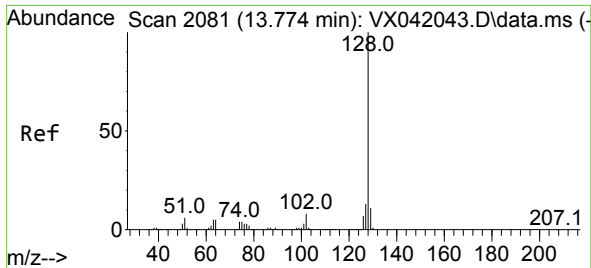
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

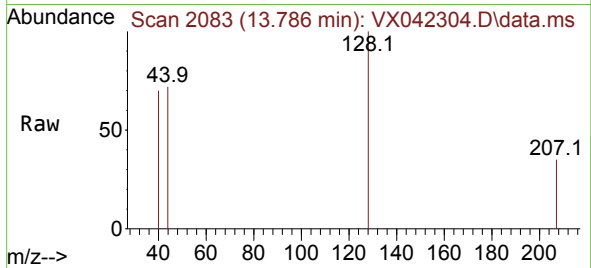
89 0.0 36.9 55.3#





#95
Naphthalene
Concen: 0.824 ug/l
RT: 13.786 min Scan# 2083
Delta R.T. 0.012 min
Lab File: VX042304.D
Acq: 12 Jul 2024 15:49

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.8	13.2#

