

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021925\
 Data File : VX045005.D
 Acq On : 19 Feb 2025 15:28
 Operator : JC/MD
 Sample : Q1393-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 20 02:38:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

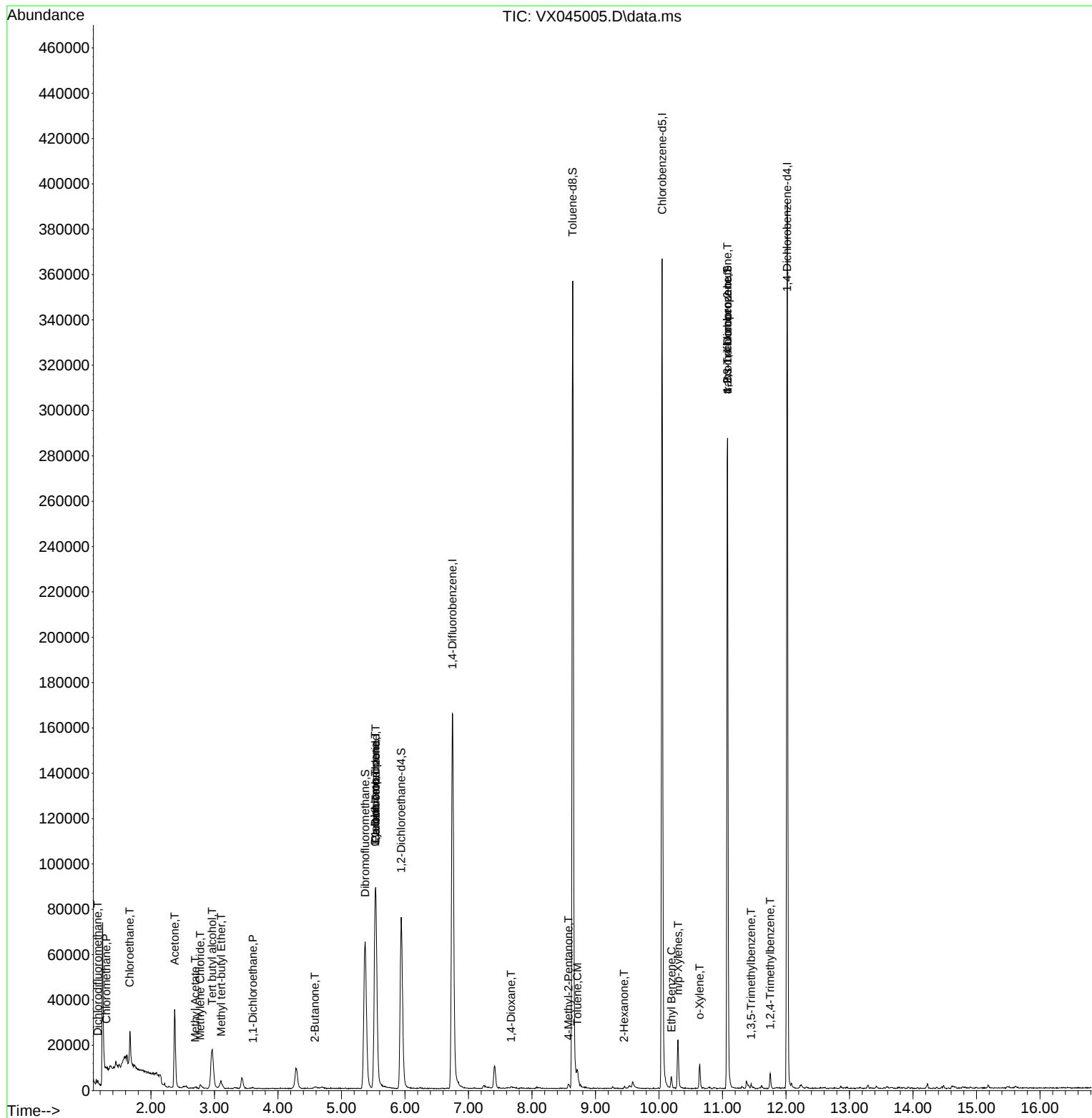
Internal Standards						
1) Pentafluorobenzene	5.538	168	86993	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	175400	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.049	117	163326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76558	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	71061	55.803	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.600%	
35) Dibromofluoromethane	5.373	113	58377	51.190	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.380%	
50) Toluene-d8	8.641	98	218947	50.773	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.540%	
62) 4-Bromofluorobenzene	11.079	95	80227	55.186	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 110.380%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	1046	0.857	ug/l	90
3) Chloromethane	1.295	50	621	0.418	ug/l #	42
6) Chloroethane	1.666	64	21769	37.226	ug/l	90
11) Tert butyl alcohol	2.965	59	26644	112.783	ug/l	99
16) Acetone	2.374	43	36782	71.850	ug/l	96
18) Methyl Acetate	2.697	43	845	0.523	ug/l #	68
19) Methyl tert-butyl Ether	3.105	73	2642	0.741	ug/l #	76
20) Methylene Chloride	2.776	84	733	0.585	ug/l	93
24) 1,1-Dichloroethane	3.605	63	695	0.324	ug/l #	83
25) 2-Butanone	4.581	43	1016	1.222	ug/l	94
31) Cyclohexane	5.532	56	2218	1.122	ug/l #	39
36) 1,1-Dichloropropene	5.532	75	7463	4.536	ug/l #	48
38) Carbon Tetrachloride	5.538	117	9357	5.804	ug/l #	15
49) 1,4-Dioxane	7.671	88	594	19.869	ug/l #	81
51) 4-Methyl-2-Pentanone	8.574	43	1401	0.780	ug/l	94
52) Toluene	8.714	92	1883	0.615	ug/l	98
59) 2-Hexanone	9.452	43	597	0.461	ug/l	81
67) Ethyl Benzene	10.195	91	3608	0.583	ug/l	94
68) m/p-Xylenes	10.299	106	5393	2.362	ug/l	97
69) o-Xylene	10.640	106	2380	1.039	ug/l	86
76) 1,2,3-Trichloropropane	11.079	75	42018	24.754	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.451	105	1029	0.206	ug/l	87
81) trans-1,4-Dichloro-2-b...	11.079	75	42018	63.677	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.750	105	3181	0.644	ug/l	94

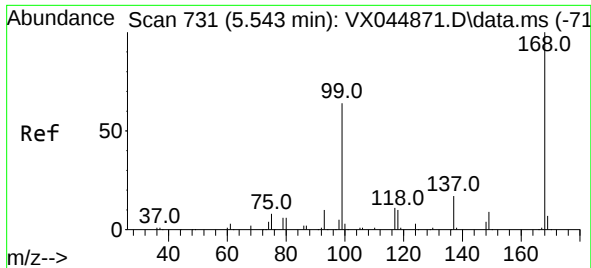
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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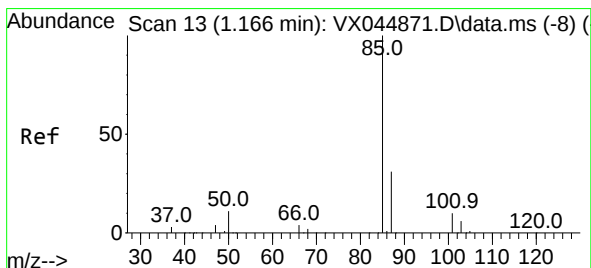
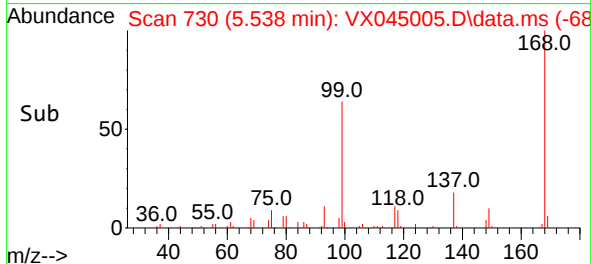
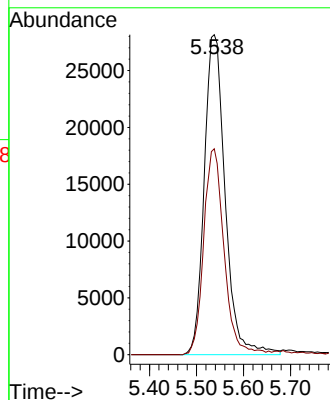
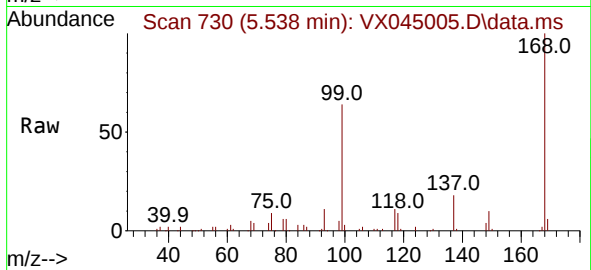




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.005 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

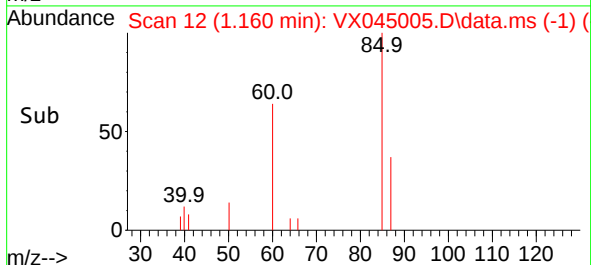
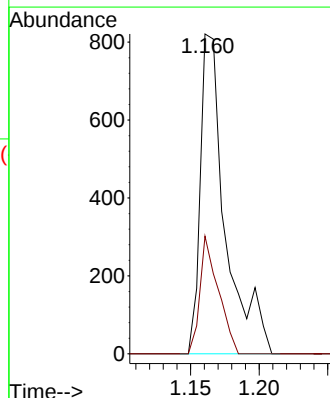
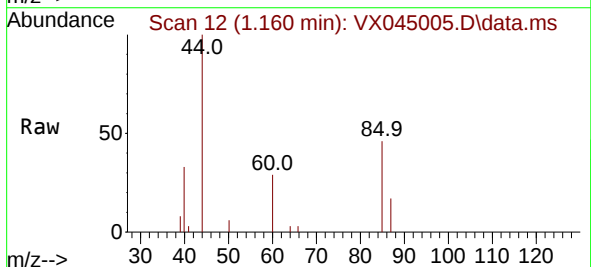
Instrument :
MSVOA_X
ClientSampleId :

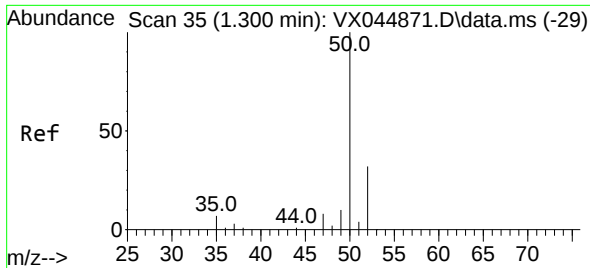
Tgt Ion:168 Resp: 86993
Ion Ratio Lower Upper
168 100
99 64.4 51.2 76.8



#2
Dichlorodifluoromethane
Concen: 0.857 ug/l
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion: 85 Resp: 1046
Ion Ratio Lower Upper
85 100
87 36.8 15.8 47.3

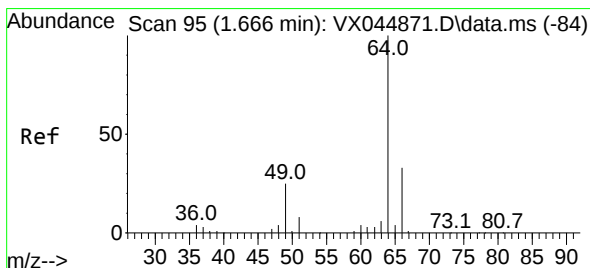
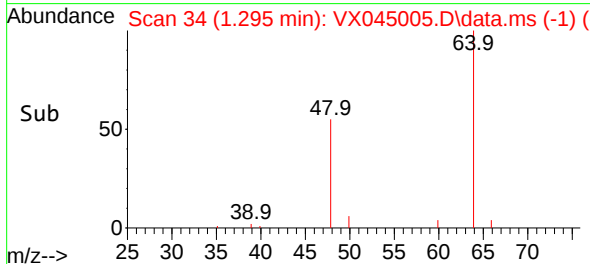
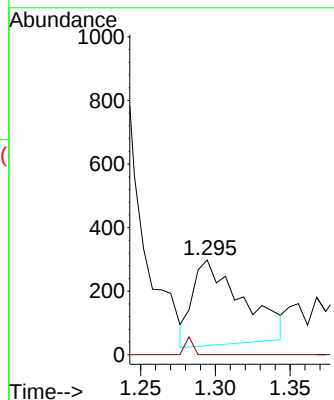
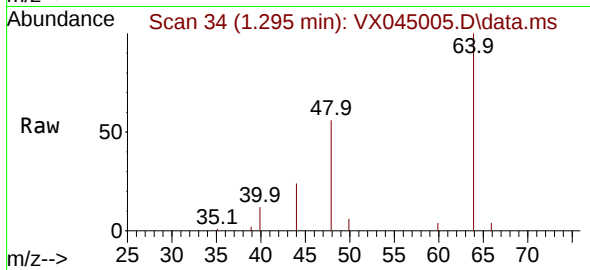




#3
Chloromethane
Concen: 0.418 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

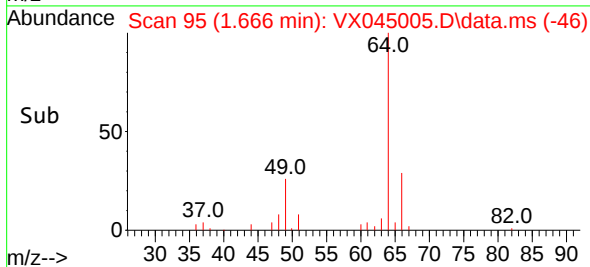
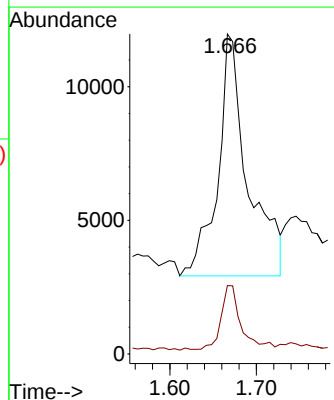
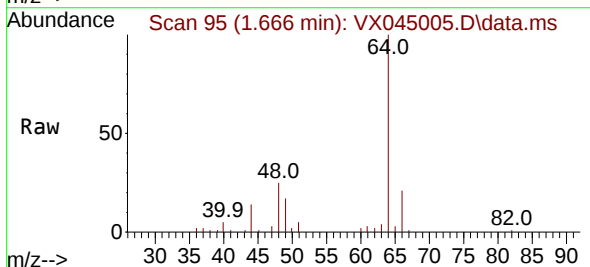
Instrument :
MSVOA_X
ClientSampleId :

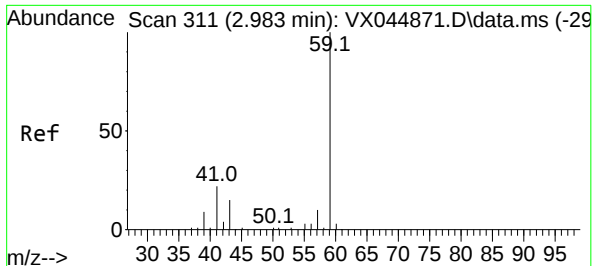
Tgt Ion: 50 Resp: 621
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#



#6
Chloroethane
Concen: 37.226 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion: 64 Resp: 21769
Ion Ratio Lower Upper
64 100
66 26.6 25.9 38.9

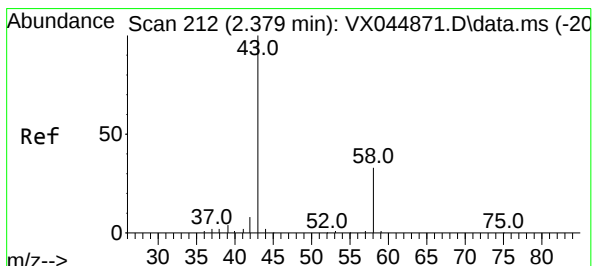
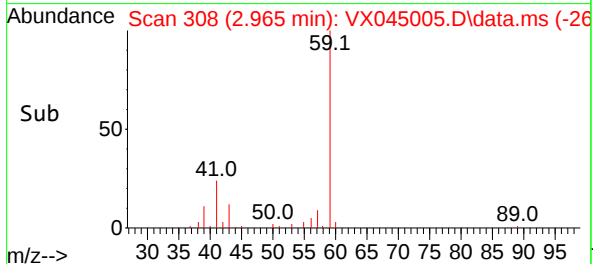
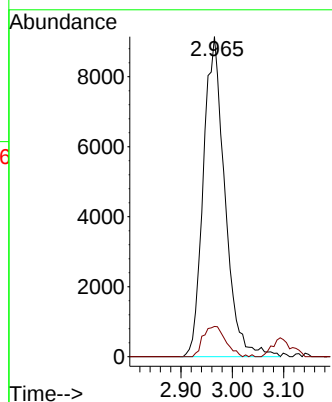
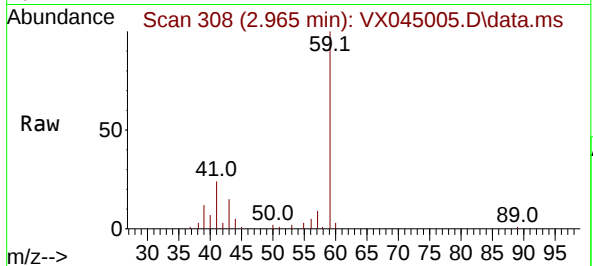




#11
Tert butyl alcohol
Concen: 112.783 ug/l
RT: 2.965 min Scan# 30
Delta R.T. -0.018 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

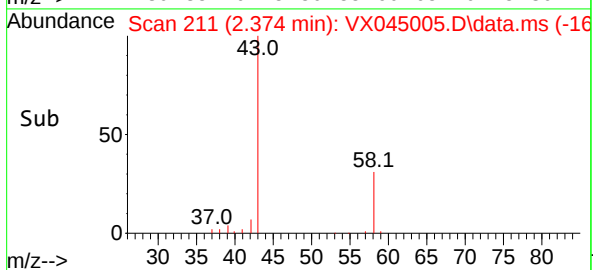
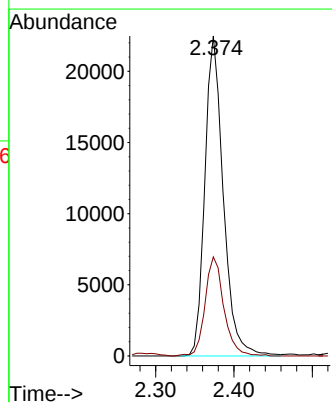
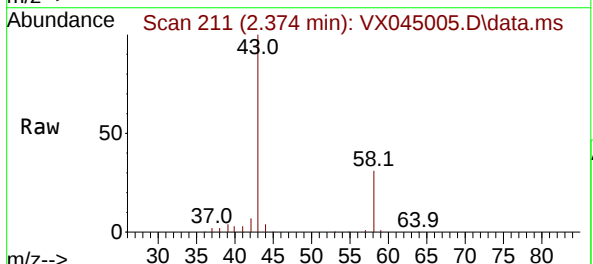
Instrument :
MSVOA_X
ClientSampleId :

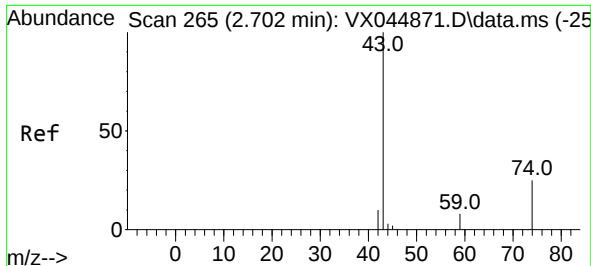
Tgt Ion: 59 Resp: 26644
Ion Ratio Lower Upper
59 100
57 9.8 8.1 12.1



#16
Acetone
Concen: 71.850 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion: 43 Resp: 36782
Ion Ratio Lower Upper
43 100
58 31.0 26.5 39.7

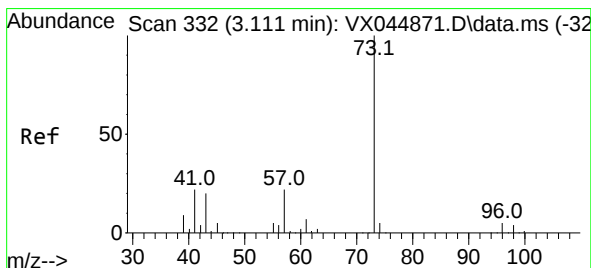
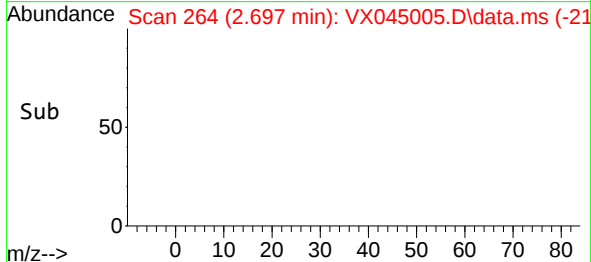
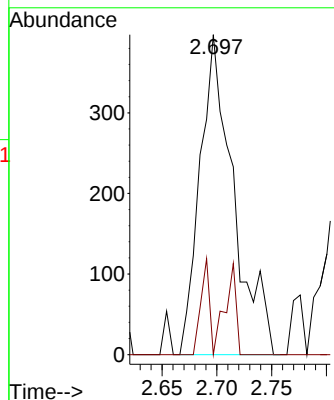
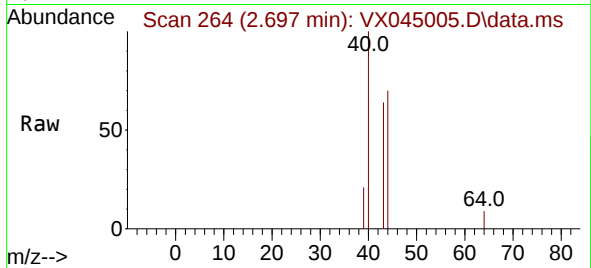




#18
Methyl Acetate
Concen: 0.523 ug/l
RT: 2.697 min Scan# 20
Delta R.T. -0.006 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

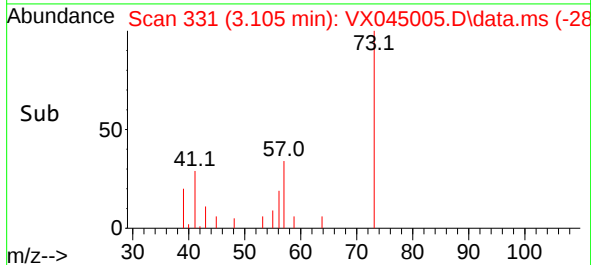
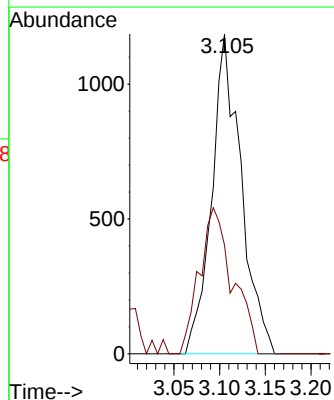
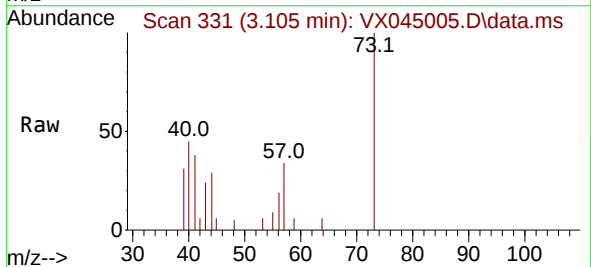
Instrument :
MSVOA_X
ClientSampleId :

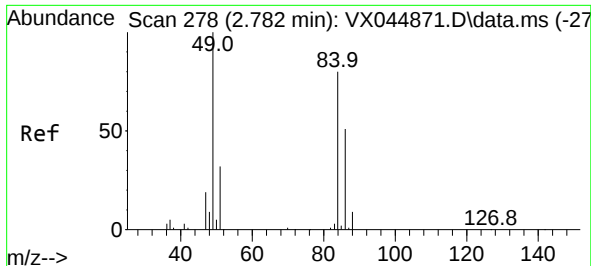
Tgt Ion: 43 Resp: 845
Ion Ratio Lower Upper
43 100
74 7.7 18.9 28.3#



#19
Methyl tert-butyl Ether
Concen: 0.741 ug/l
RT: 3.105 min Scan# 331
Delta R.T. -0.006 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

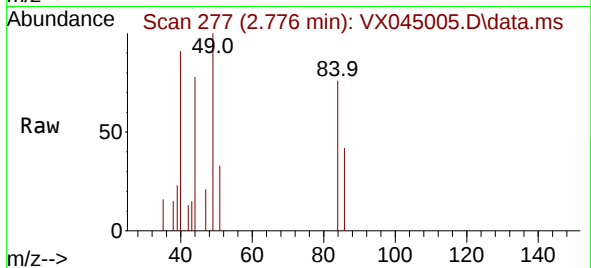
Tgt Ion: 73 Resp: 2642
Ion Ratio Lower Upper
73 100
57 34.0 17.9 26.9#



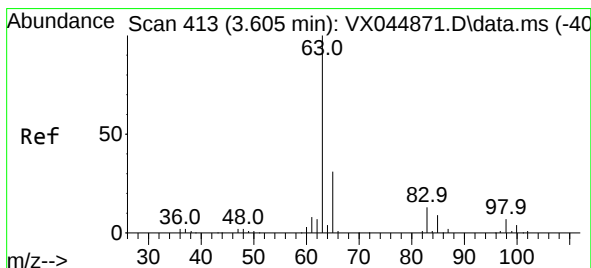
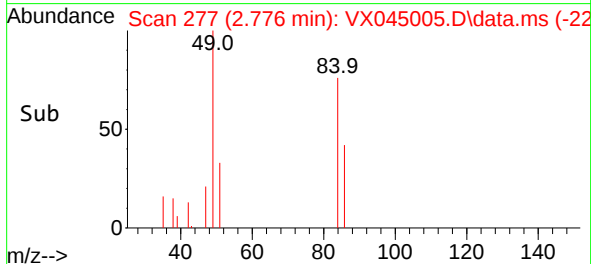
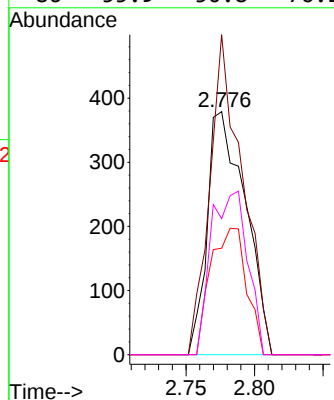


#20
Methylene Chloride
Concen: 0.585 ug/l
RT: 2.776 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Instrument :
MSVOA_X
ClientSampleId :

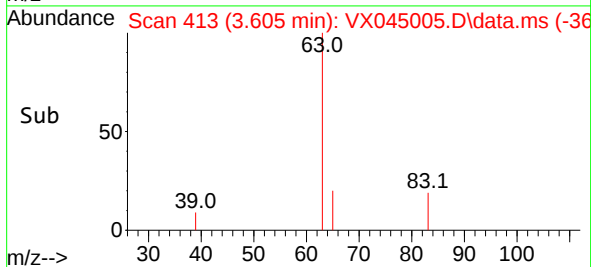
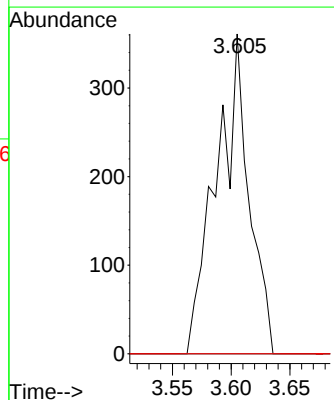
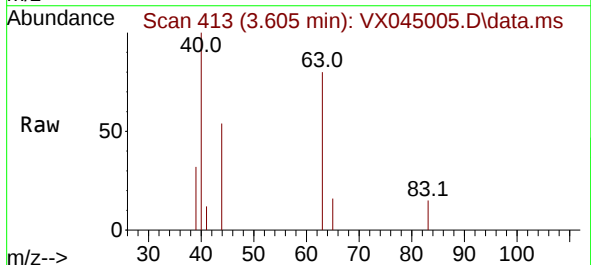


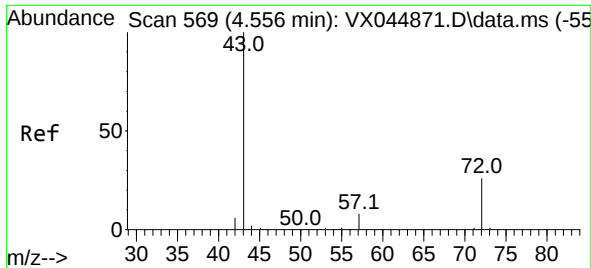
Tgt Ion:	84	Resp:	733
Ion	Ratio	Lower	Upper
84	100		
49	131.7	100.1	150.1
51	43.8	31.7	47.5
86	55.9	50.8	76.2



#24
1,1-Dichloroethane
Concen: 0.324 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion:	63	Resp:	695
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.9#
100	0.0	2.1	6.5#

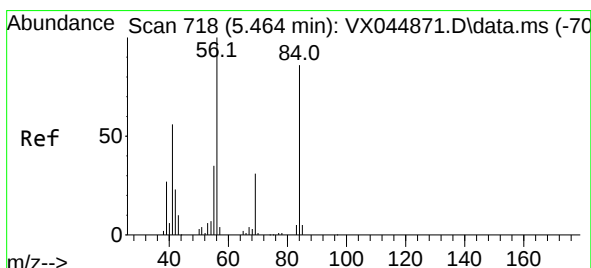
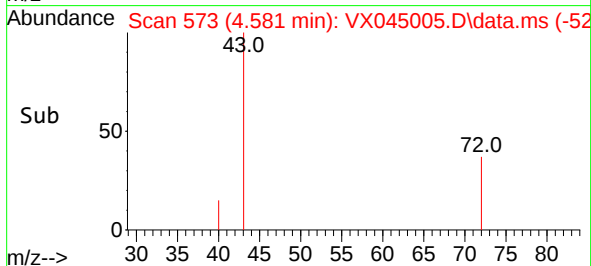
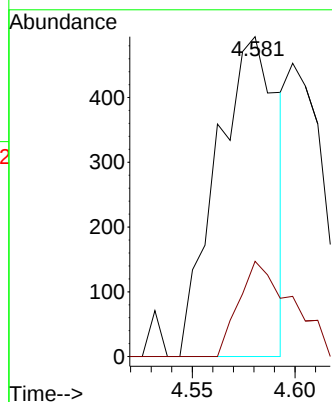
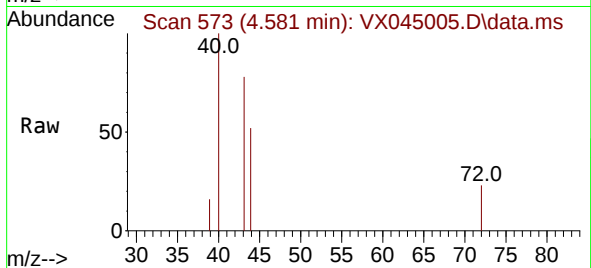




#25
2-Butanone
Concen: 1.222 ug/l
RT: 4.581 min Scan# 51
Delta R.T. 0.025 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

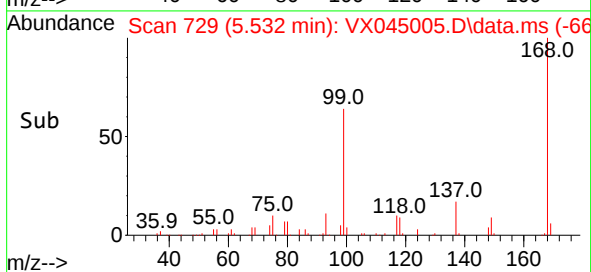
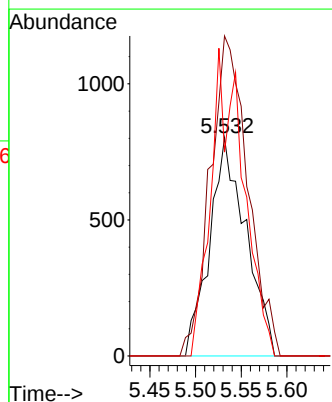
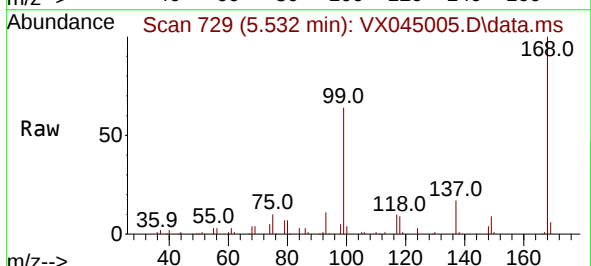
Instrument :
MSVOA_X
ClientSampleId :

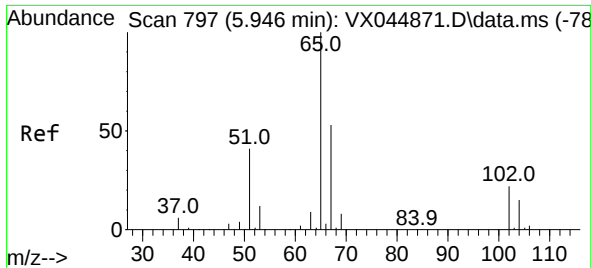
Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
72 29.8 21.2 31.8



#31
Cyclohexane
Concen: 1.122 ug/l
RT: 5.532 min Scan# 729
Delta R.T. 0.067 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion: 56 Resp: 2218
Ion Ratio Lower Upper
56 100
69 146.5 24.4 36.6#
84 93.3 69.0 103.6

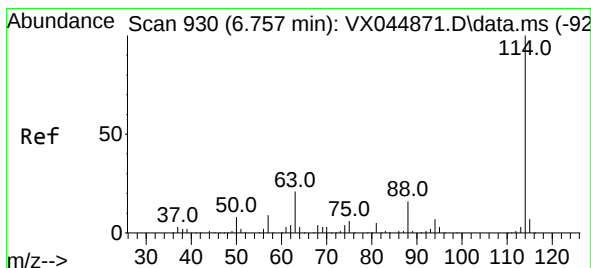
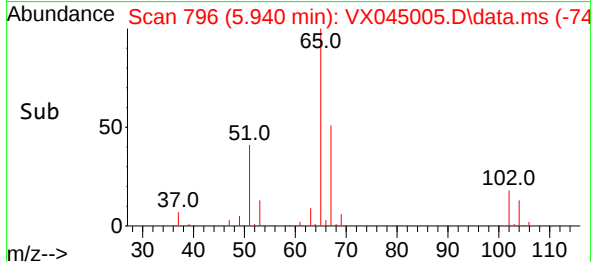
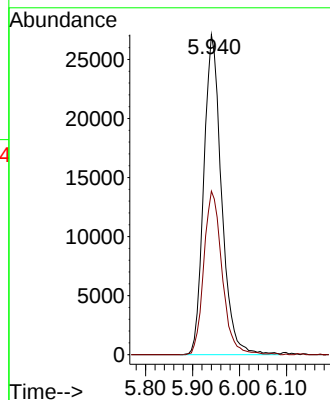
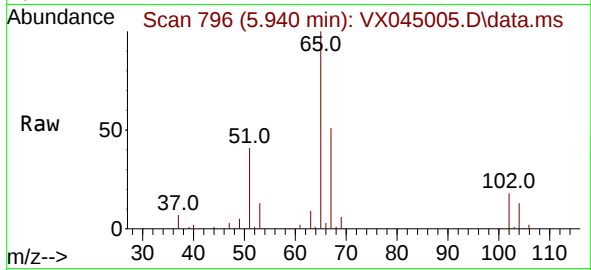




#33
 1,2-Dichloroethane-d4
 Concen: 55.803 ug/l
 RT: 5.940 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: VX045005.D
 Acq: 19 Feb 2025 15:28

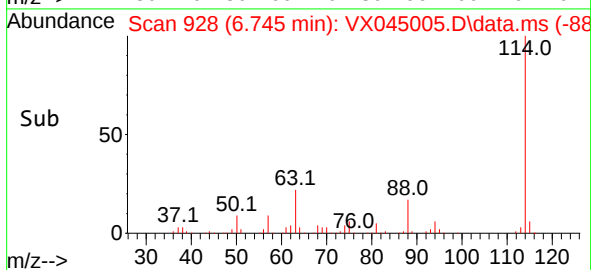
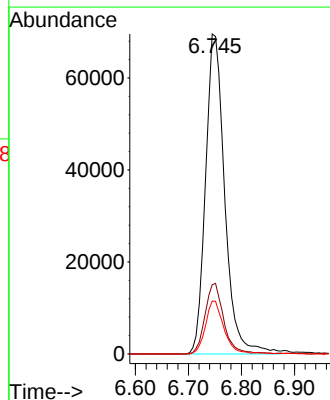
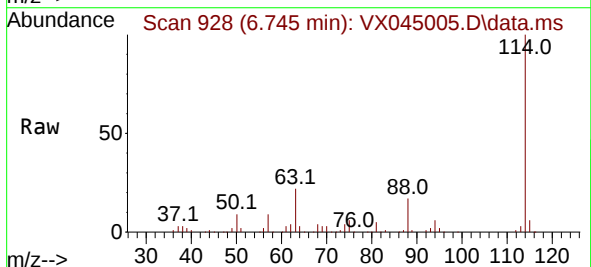
Instrument :
 MSVOA_X
 ClientSampleId :

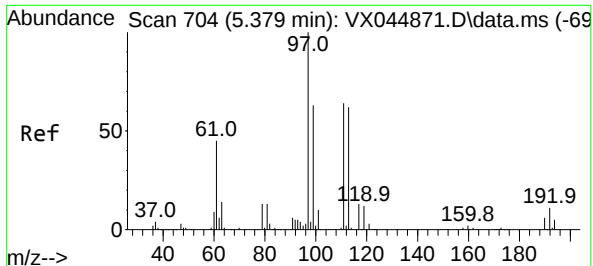
Tgt Ion: 65 Resp: 71061
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.012 min
 Lab File: VX045005.D
 Acq: 19 Feb 2025 15:28

Tgt Ion: 114 Resp: 175400
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 42.4
 88 16.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.190 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

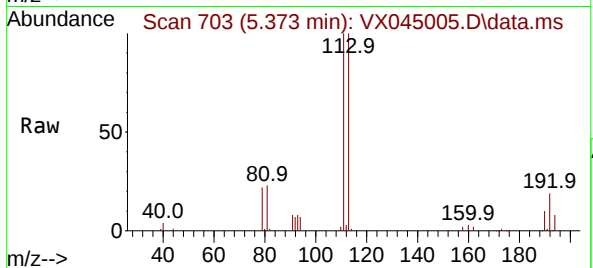
Lab File: VX045005.D

Acq: 19 Feb 2025 15:28

Instrument :

MSVOA_X

ClientSampleId :



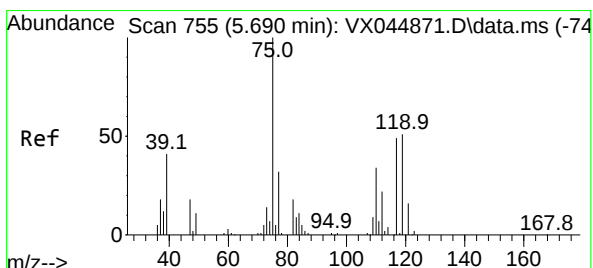
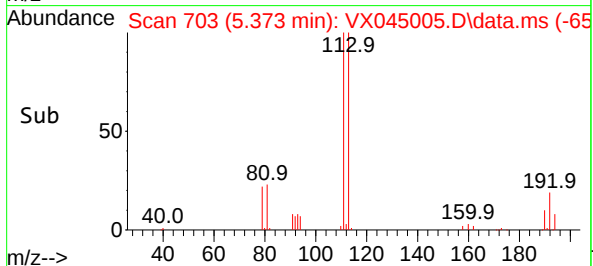
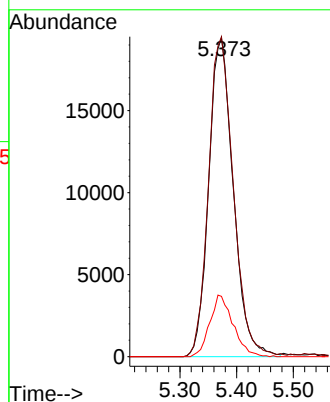
Tgt Ion:113 Resp: 58377

Ion Ratio Lower Upper

113 100

111 101.8 83.5 125.3

192 18.4 14.4 21.6



#36

1,1-Dichloropropene

Concen: 4.536 ug/l

RT: 5.532 min Scan# 729

Delta R.T. -0.158 min

Lab File: VX045005.D

Acq: 19 Feb 2025 15:28

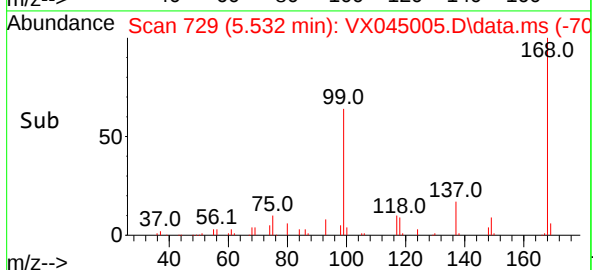
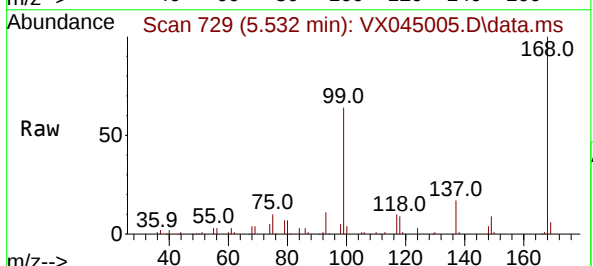
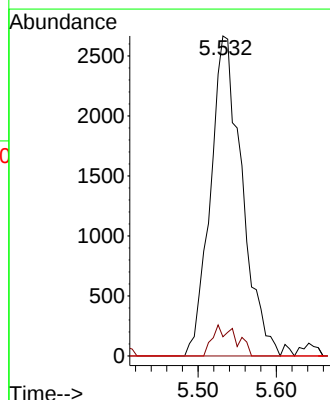
Tgt Ion: 75 Resp: 7463

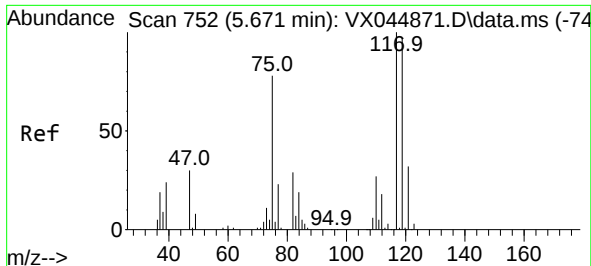
Ion Ratio Lower Upper

75 100

110 7.1 17.2 51.6#

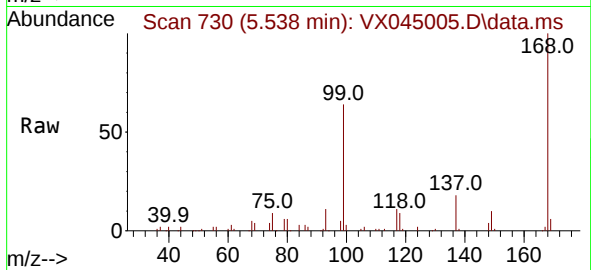
77 0.0 24.6 37.0#



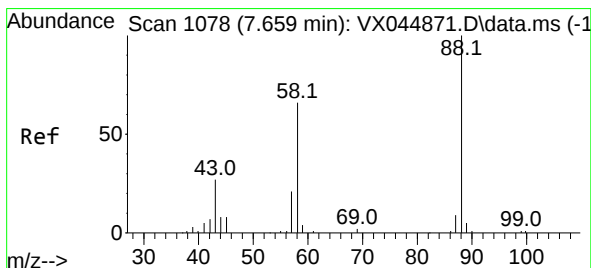
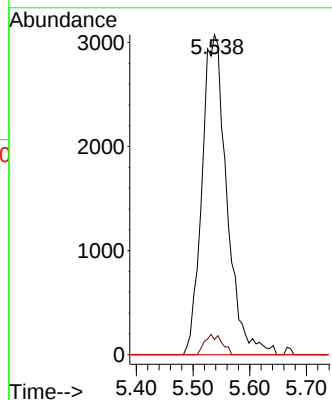
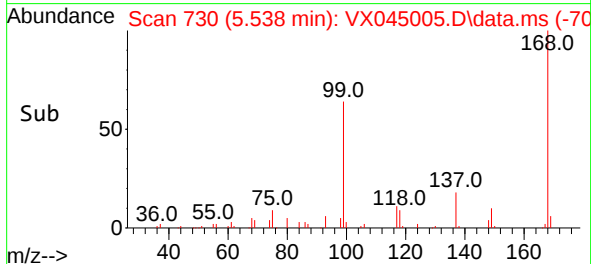


#38
Carbon Tetrachloride
Concen: 5.804 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Instrument :
MSVOA_X
ClientSampleId :

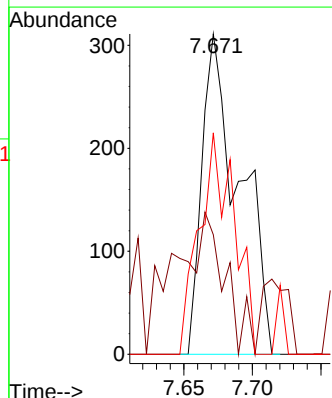
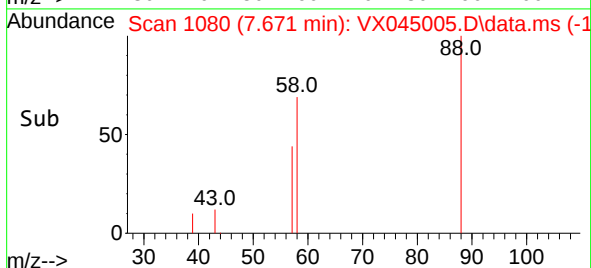
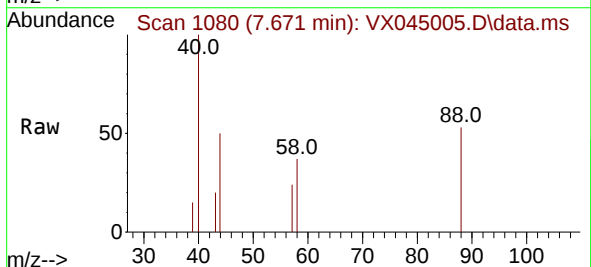


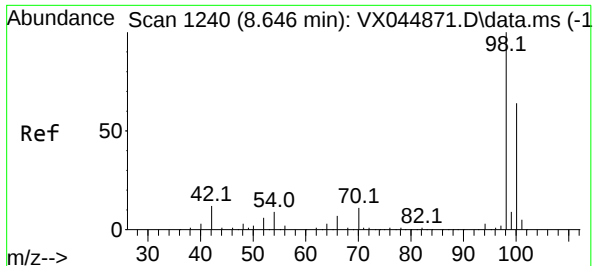
Tgt Ion:117 Resp: 9357
Ion Ratio Lower Upper
117 100
119 4.7 77.5 116.3#
121 0.0 25.6 38.4#



#49
1,4-Dioxane
Concen: 19.869 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. 0.013 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion: 88 Resp: 594
Ion Ratio Lower Upper
88 100
43 59.6 26.6 39.8#
58 64.5 55.9 83.9





#50

Toluene-d8

Concen: 50.773 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. -0.006 min

Lab File: VX045005.D

Acq: 19 Feb 2025 15:28

Instrument :

MSVOA_X

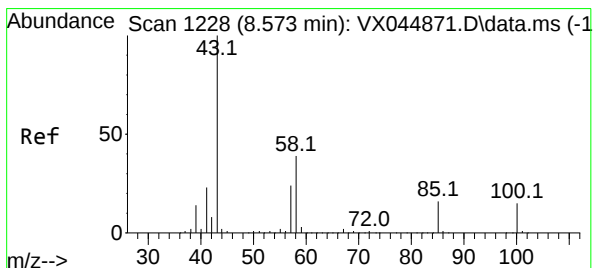
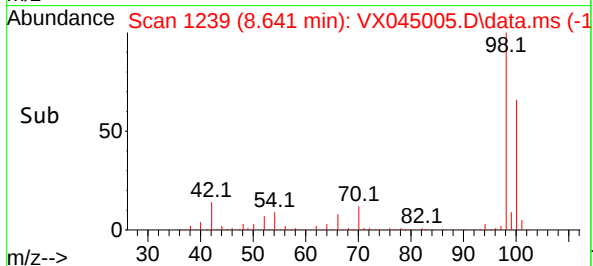
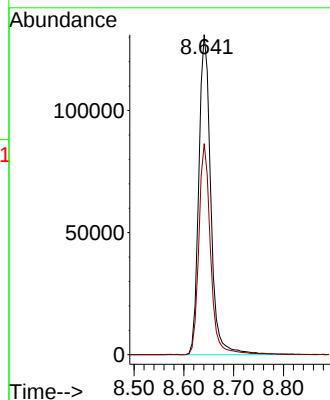
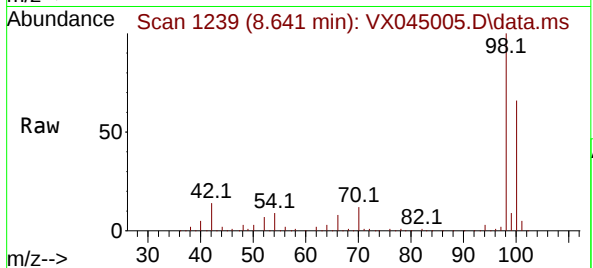
ClientSampleId :

Tgt Ion: 98 Resp: 218947

Ion Ratio Lower Upper

98 100

100 64.6 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 0.780 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX045005.D

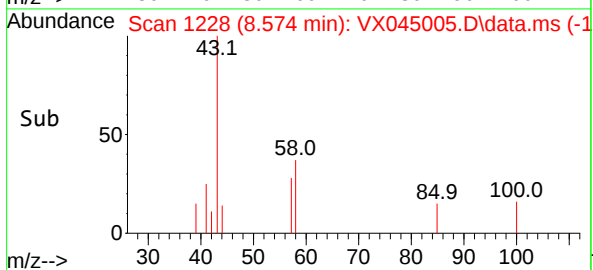
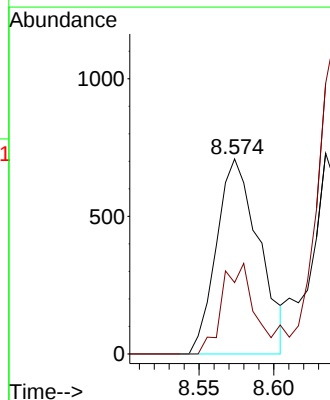
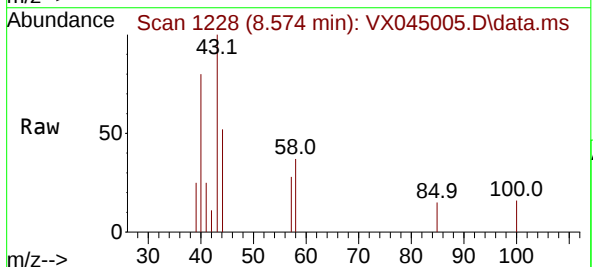
Acq: 19 Feb 2025 15:28

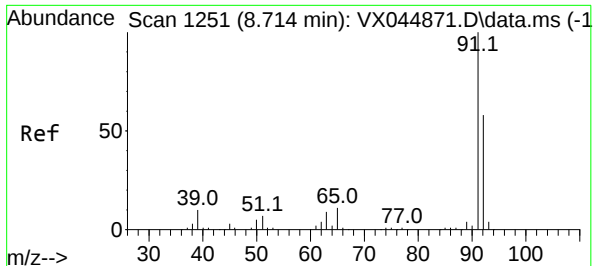
Tgt Ion: 43 Resp: 1401

Ion Ratio Lower Upper

43 100

58 34.7 30.8 46.2

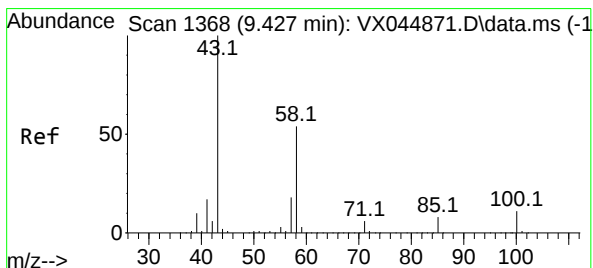
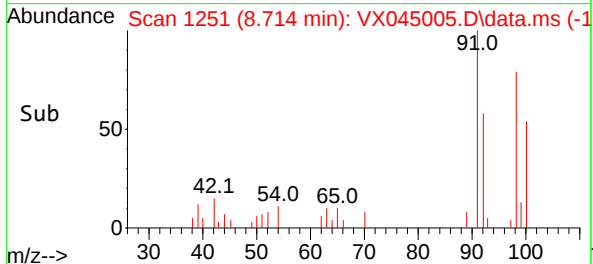
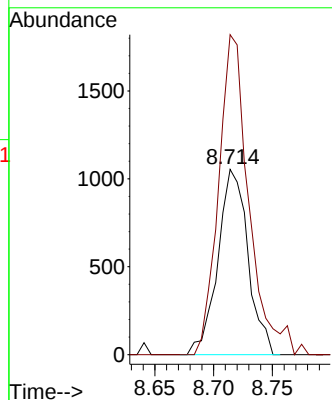
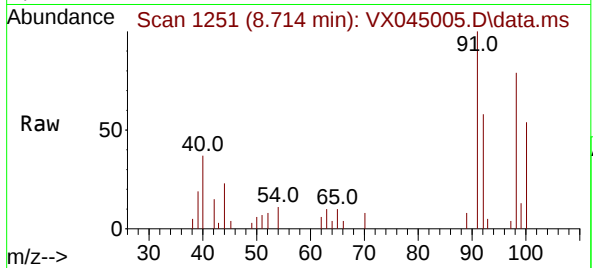




#52
Toluene
Concen: 0.615 ug/l
RT: 8.714 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

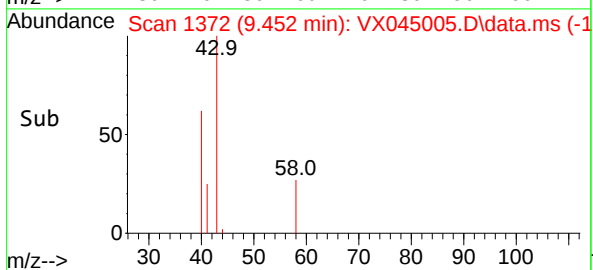
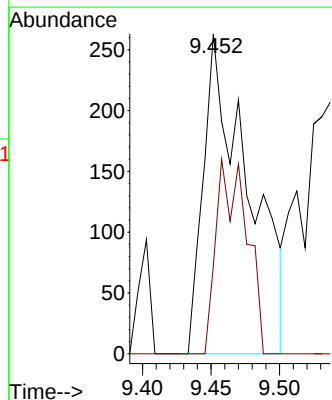
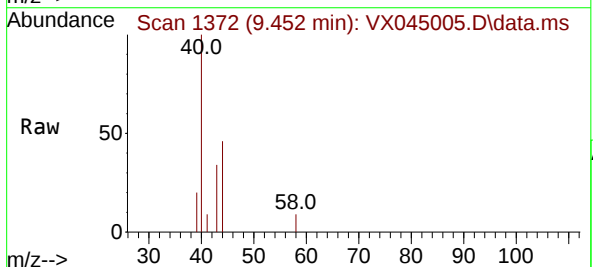
Instrument :
MSVOA_X
ClientSampleId :

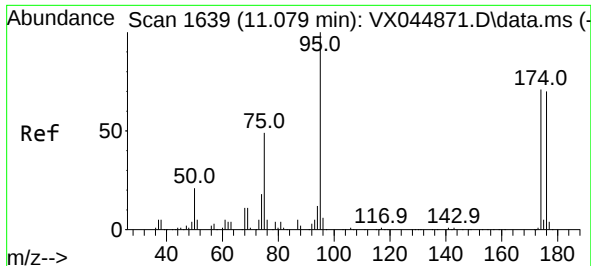
Tgt Ion: 92 Resp: 1883
Ion Ratio Lower Upper
92 100
91 174.1 137.4 206.2



#59
2-Hexanone
Concen: 0.461 ug/l
RT: 9.452 min Scan# 1372
Delta R.T. 0.025 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion: 43 Resp: 597
Ion Ratio Lower Upper
43 100
58 41.4 27.5 82.4





#62

4-Bromofluorobenzene

Concen: 55.186 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045005.D

Acq: 19 Feb 2025 15:28

Instrument :

MSVOA_X

ClientSampleId :

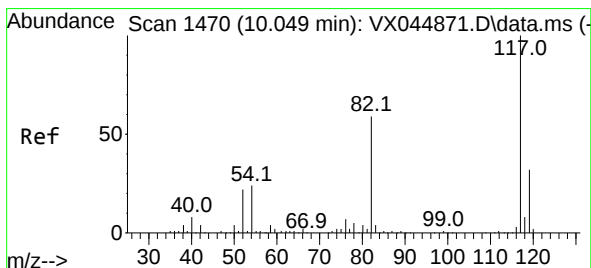
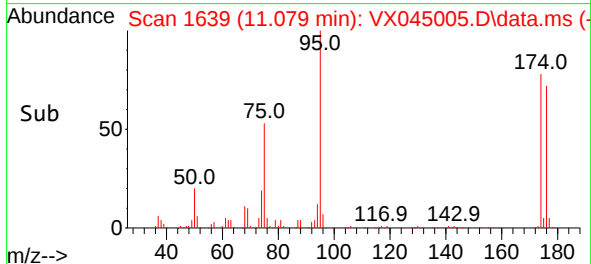
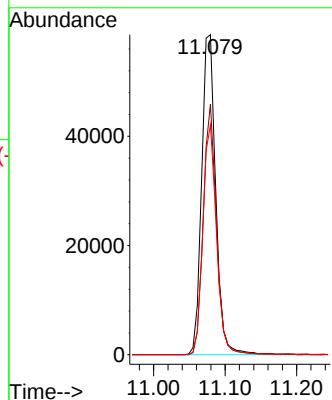
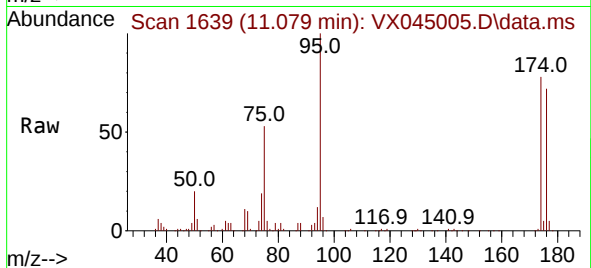
Tgt Ion: 95 Resp: 80227

Ion Ratio Lower Upper

95 100

174 73.4 0.0 142.6

176 69.8 0.0 141.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045005.D

Acq: 19 Feb 2025 15:28

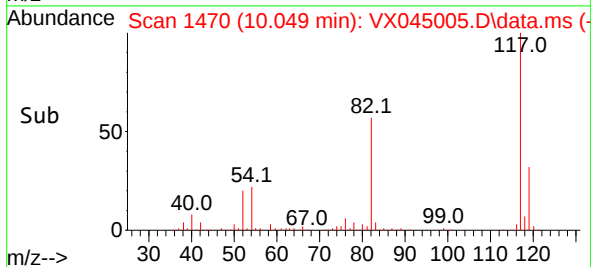
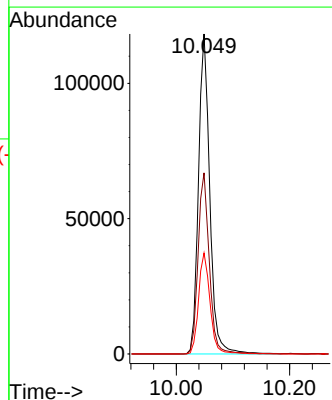
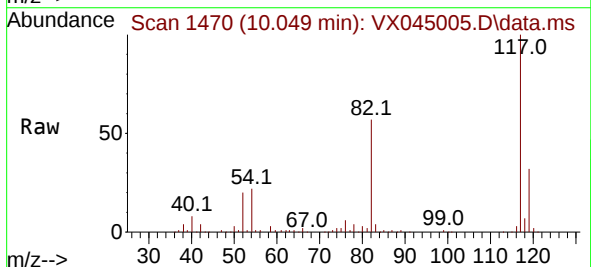
Tgt Ion: 117 Resp: 163326

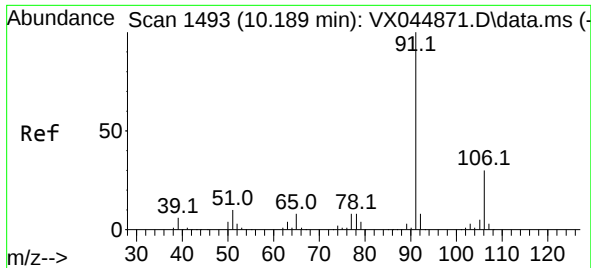
Ion Ratio Lower Upper

117 100

82 56.6 47.5 71.3

119 31.6 25.4 38.0





#67

Ethyl Benzene

Concen: 0.583 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.007 min

Lab File: VX045005.D

Acq: 19 Feb 2025 15:28

Instrument :

MSVOA_X

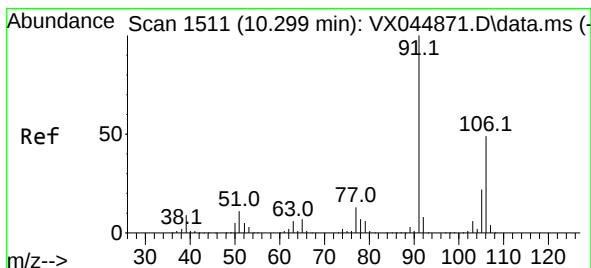
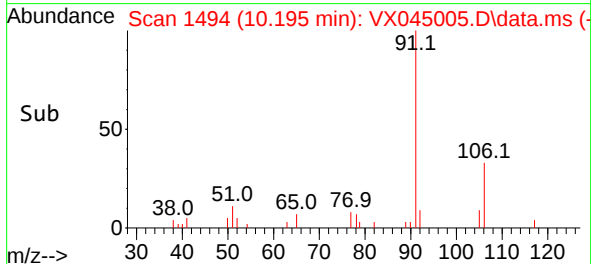
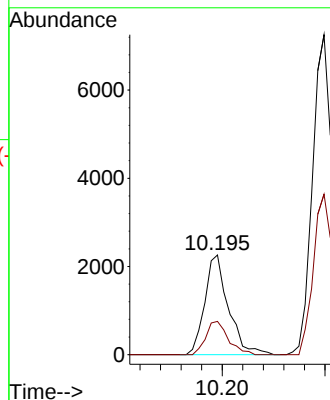
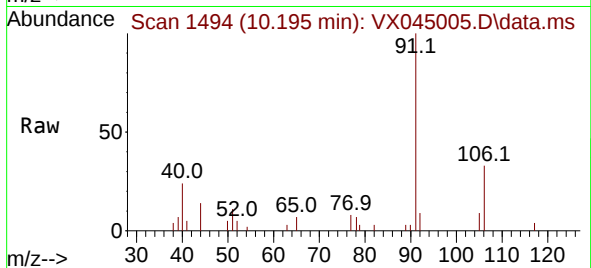
ClientSampleId :

Tgt Ion: 91 Resp: 3608

Ion Ratio Lower Upper

91 100

106 33.3 23.9 35.9



#68

m/p-Xylenes

Concen: 2.362 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045005.D

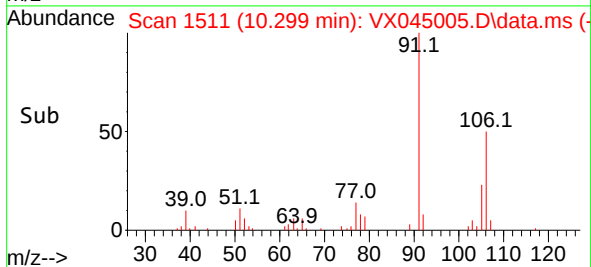
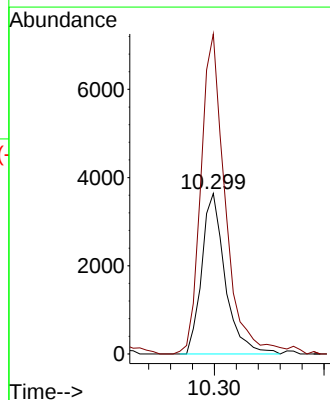
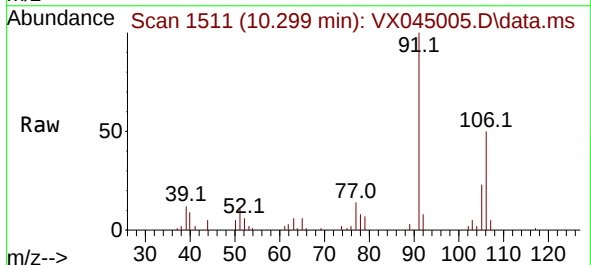
Acq: 19 Feb 2025 15:28

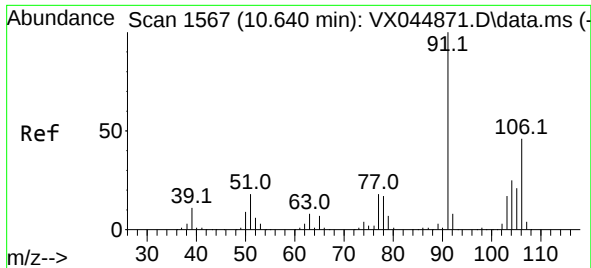
Tgt Ion:106 Resp: 5393

Ion Ratio Lower Upper

106 100

91 209.8 164.3 246.5

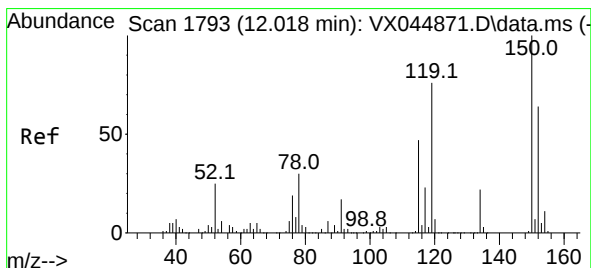
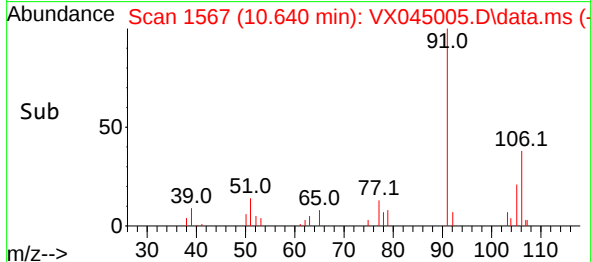
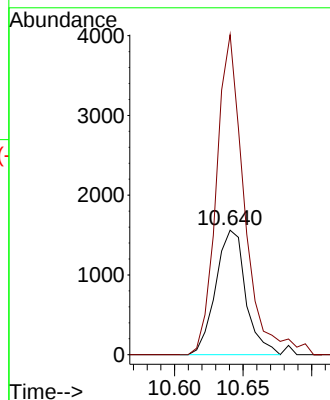
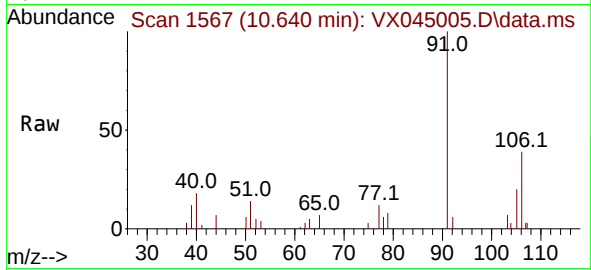




#69
o-Xylene
Concen: 1.039 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

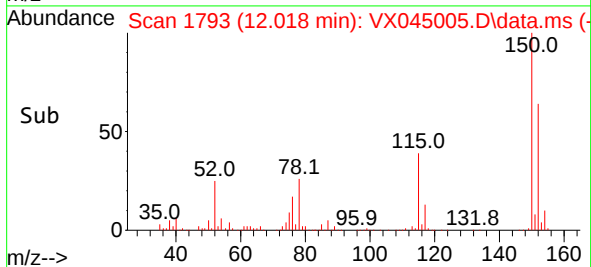
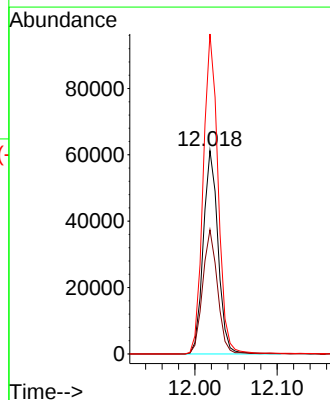
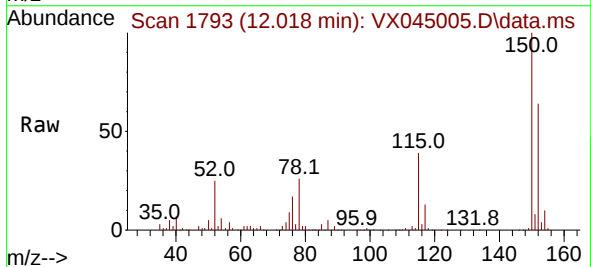
Instrument :
MSVOA_X
ClientSampleId :

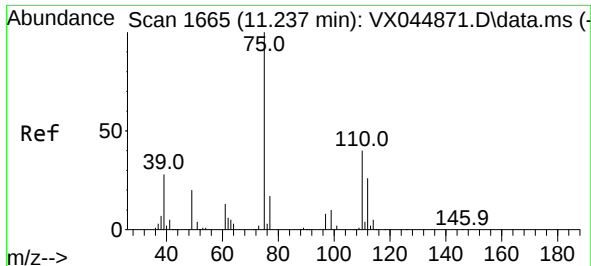
Tgt Ion:106 Resp: 2380
Ion Ratio Lower Upper
106 100
91 239.2 108.5 325.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion:152 Resp: 76558
Ion Ratio Lower Upper
152 100
115 61.4 43.4 130.1
150 158.7 0.0 350.4

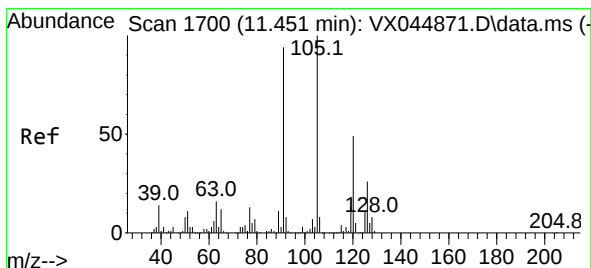
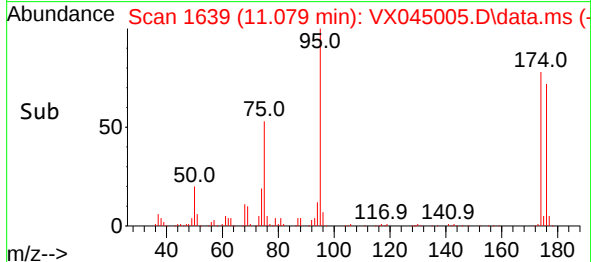
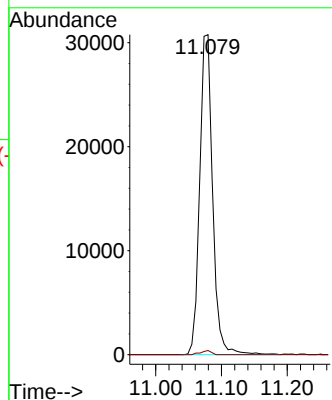
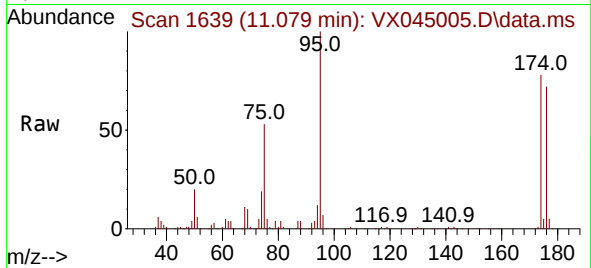




#76
1,2,3-Trichloropropane
Concen: 24.754 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

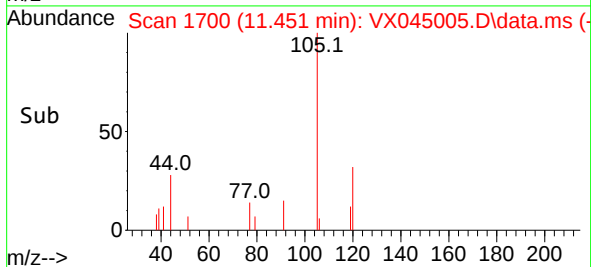
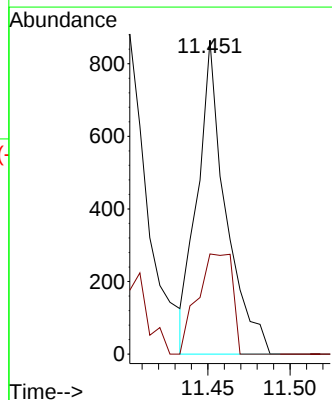
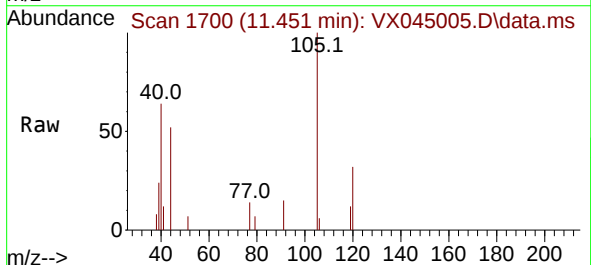
Instrument :
MSVOA_X
ClientSampleId :

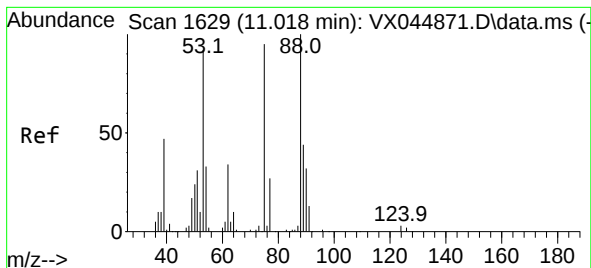
Tgt Ion: 75 Resp: 42018
Ion Ratio Lower Upper
75 100
77 1.0 21.9 65.7#



#80
1,3,5-Trimethylbenzene
Concen: 0.206 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045005.D
Acq: 19 Feb 2025 15:28

Tgt Ion:105 Resp: 1029
Ion Ratio Lower Upper
105 100
120 39.6 24.0 72.0

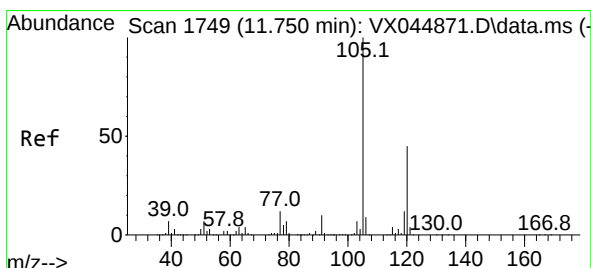
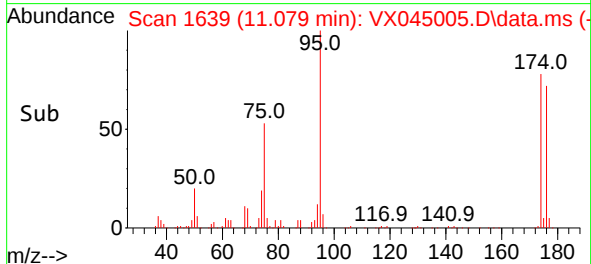
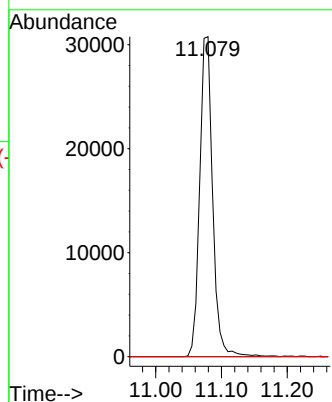
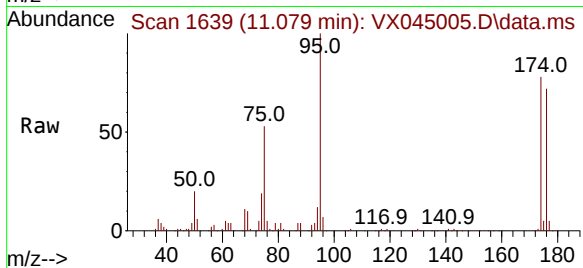




#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.677 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX045005.D
 Acq: 19 Feb 2025 15:28

Instrument :
 MSVOA_X
 ClientSampleId :

Tgt Ion: 75 Resp: 42018
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 36.6 54.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.644 ug/l
 RT: 11.750 min Scan# 1749
 Delta R.T. 0.000 min
 Lab File: VX045005.D
 Acq: 19 Feb 2025 15:28

Tgt Ion:105 Resp: 3181
 Ion Ratio Lower Upper
 105 100
 120 48.5 22.4 67.0

