

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX073025\
 Data File : VX047186.D
 Acq On : 30 Jul 2025 15:00
 Operator : JC/MD
 Sample : Q2709-02RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

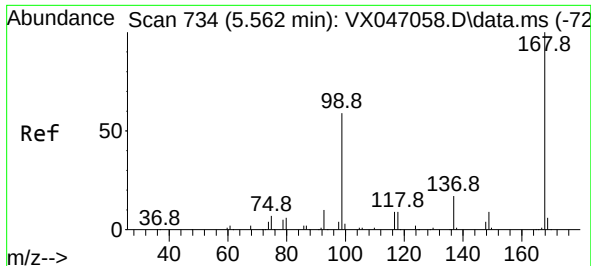
Instrument :
 MSVOA_X
 ClientSampleId :
 7211935-295

Quant Time: Jul 31 03:17:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	302963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	516099	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	457505	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	230741	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	204834	54.276	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.560%			
35) Dibromofluoromethane	5.391	113	173716	54.515	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.040%			
50) Toluene-d8	8.647	98	529897	51.348	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.700%			
62) 4-Bromofluorobenzene	11.079	95	240626	54.108	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.220%			
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	588	0.253	ug/l	83
6) Chloroethane	1.721	64	894	0.318	ug/l #	43
10) Methyl Iodide	2.477	142	2594	0.662	ug/l #	95
11) Tert butyl alcohol	2.953	59	703	Below Cal	#	79
14) Allyl chloride	2.703	41	2028	0.295	ug/l #	42
16) Acetone	2.392	43	44844	29.662	ug/l	99
17) Carbon Disulfide	2.532	76	2891	0.262	ug/l #	66
18) Methyl Acetate	2.715	43	31869	7.932	ug/l	99
20) Methylene Chloride	2.800	84	8945	2.151	ug/l	90
25) 2-Butanone	4.599	43	4859	2.207	ug/l	99
29) Tetrahydrofuran	5.025	42	489	0.344	ug/l #	44
31) Cyclohexane	5.556	56	7166	1.016	ug/l #	11
36) 1,1-Dichloropropene	5.556	75	25783	4.747	ug/l #	45
37) Ethyl Acetate	4.733	43	17972	3.591	ug/l #	94
38) Carbon Tetrachloride	5.562	117	33066	5.704	ug/l #	16
43) Isopropyl Acetate	6.348	43	15024	1.925	ug/l	95
48) Methyl methacrylate	7.793	41	112955	26.573	ug/l #	46
49) 1,4-Dioxane	7.805	88	159	3.289	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	166945	35.996	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	75445	12.422	ug/l #	61
57) 1,3-Dichloropropane	9.482	76	5296	0.841	ug/l #	43
59) 2-Hexanone	9.372	43	23860	7.787	ug/l #	25
74) N-amyl acetate	10.640	43	23546	3.206	ug/l #	54
76) 1,2,3-Trichloropropane	11.079	75	125901	29.479	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	125901	75.949	ug/l #	8

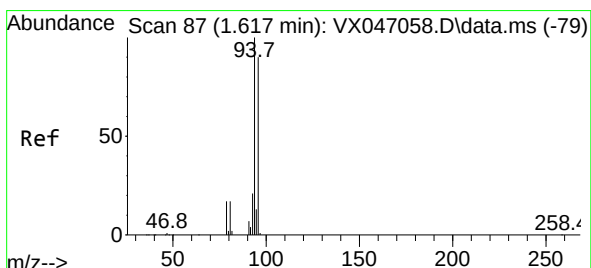
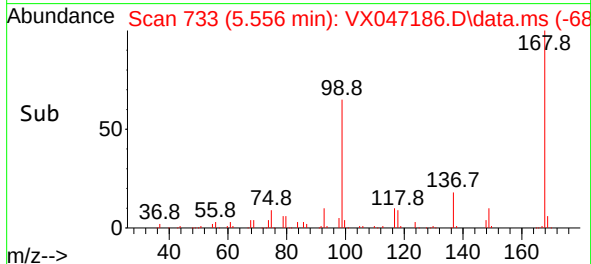
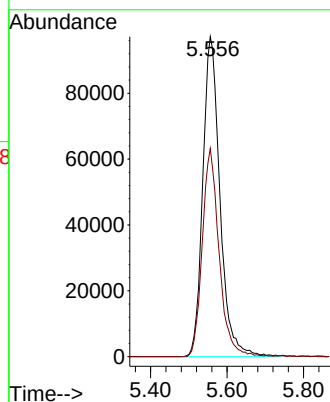
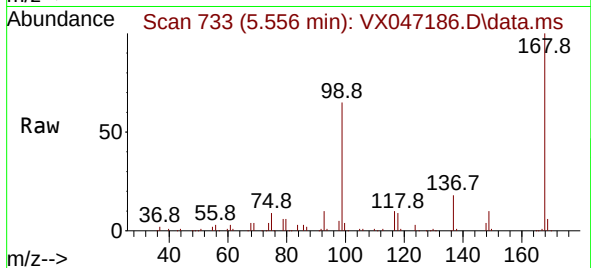
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

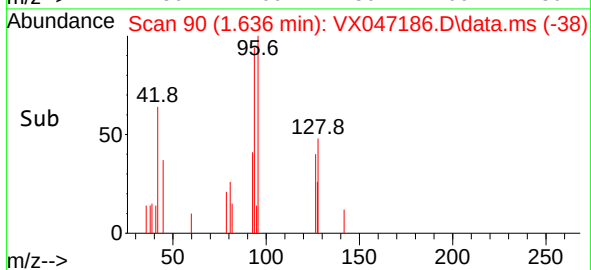
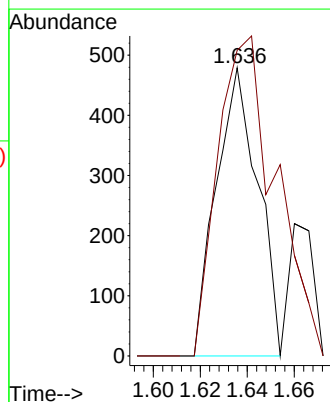
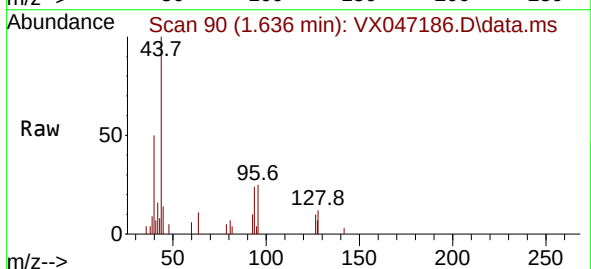
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

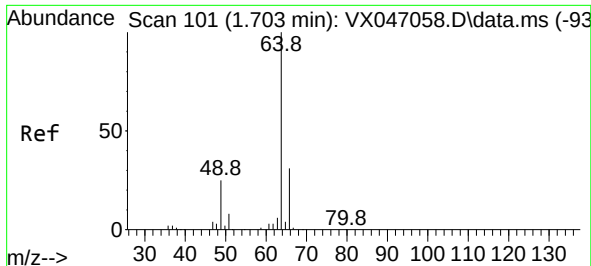
Tgt Ion:168 Resp: 302963
Ion Ratio Lower Upper
168 100
99 65.1 48.0 72.0



#5
Bromomethane
Concen: 0.253 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.019 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 94 Resp: 588
Ion Ratio Lower Upper
94 100
96 106.1 72.3 108.5

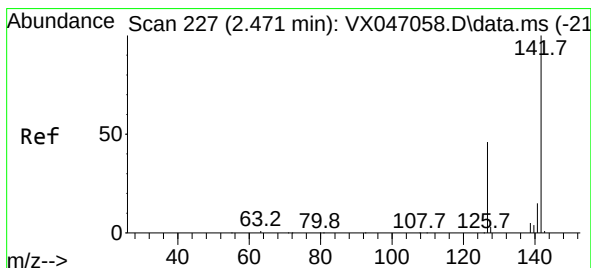
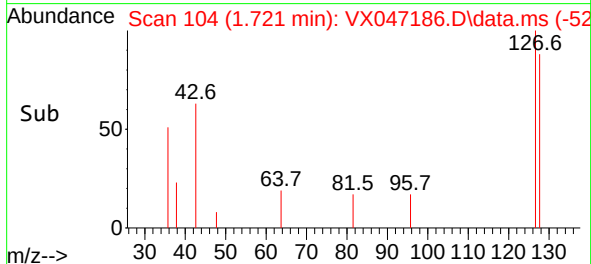
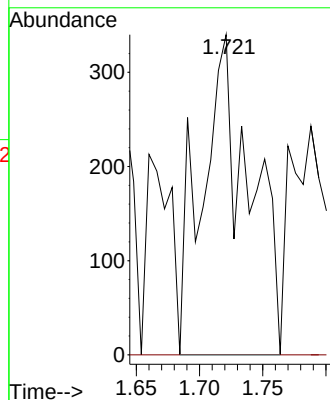
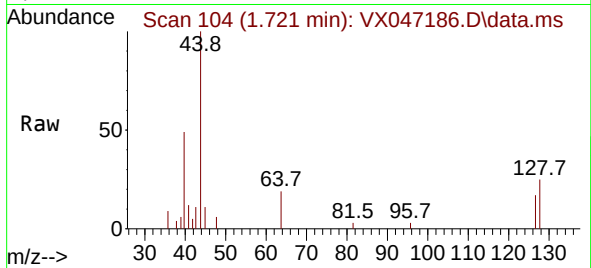




#6
Chloroethane
Concen: 0.318 ug/l
RT: 1.721 min Scan# 104
Delta R.T. 0.019 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

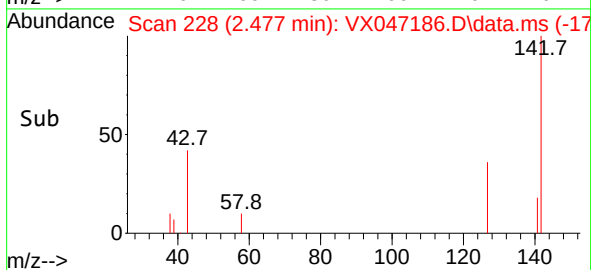
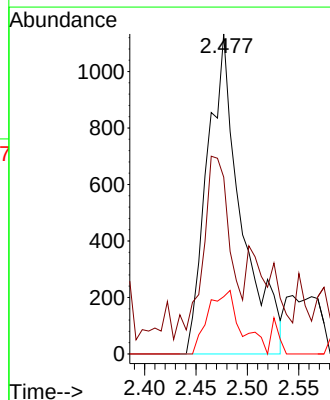
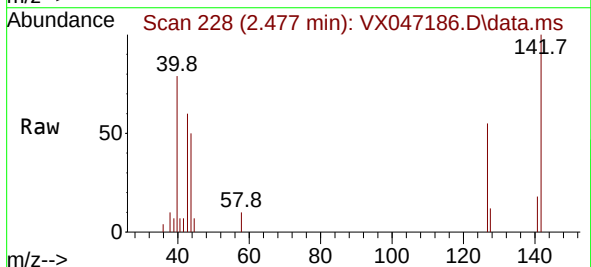
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

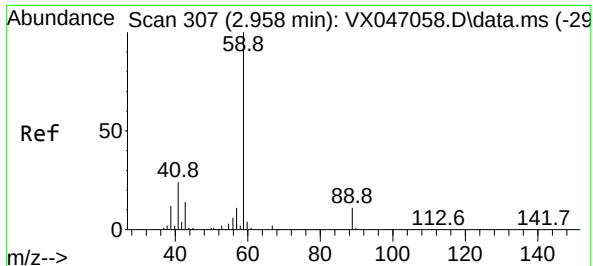
Tgt Ion: 64 Resp: 894
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#10
Methyl Iodide
Concen: 0.662 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 142 Resp: 2594
Ion Ratio Lower Upper
142 100
127 43.8 36.6 54.8
141 19.2 10.9 16.3#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.953 min Scan# 307

Delta R.T. -0.005 min

Lab File: VX047186.D

Acq: 30 Jul 2025 15:00

Instrument :

MSVOA_X

ClientSampleId :

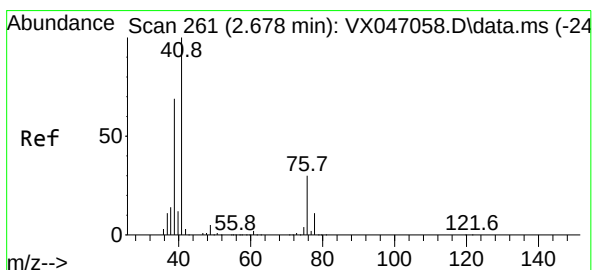
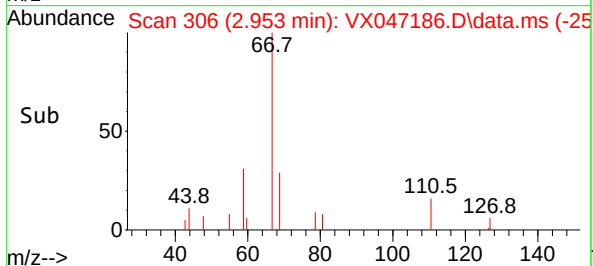
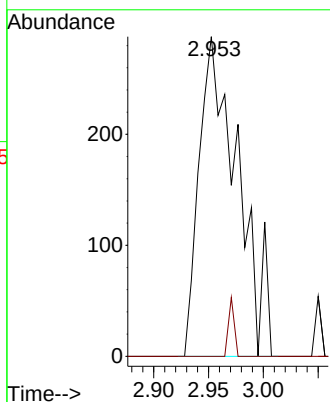
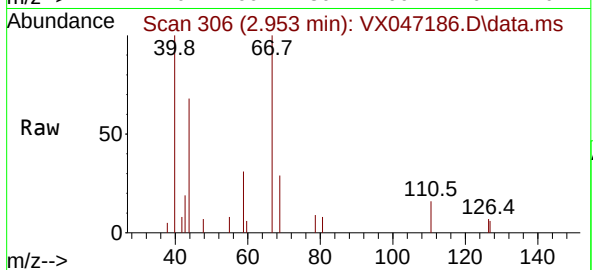
7211935-295

Tgt Ion: 59 Resp: 703

Ion Ratio Lower Upper

59 100

57 2.7 8.5 12.7#



#14

Allyl chloride

Concen: 0.295 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.025 min

Lab File: VX047186.D

Acq: 30 Jul 2025 15:00

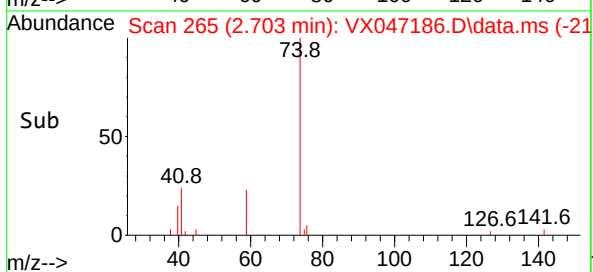
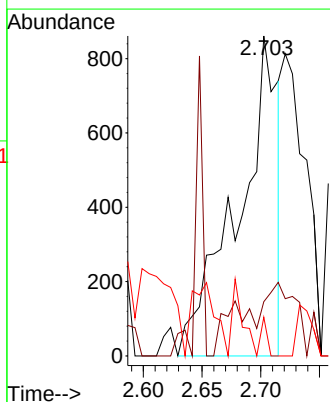
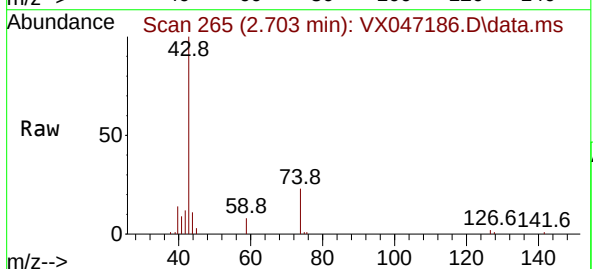
Tgt Ion: 41 Resp: 2028

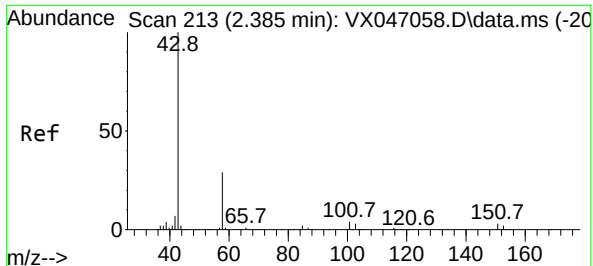
Ion Ratio Lower Upper

41 100

39 19.7 52.6 78.8#

76 0.0 25.7 38.5#

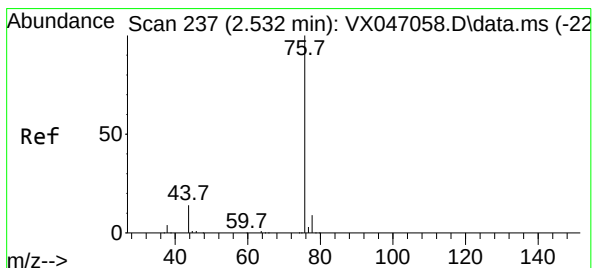
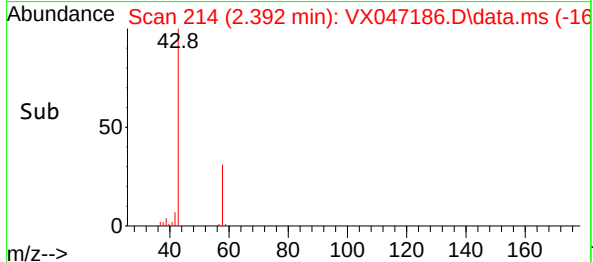
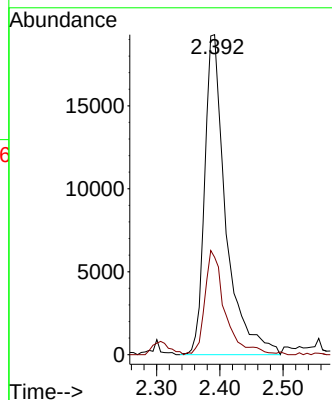
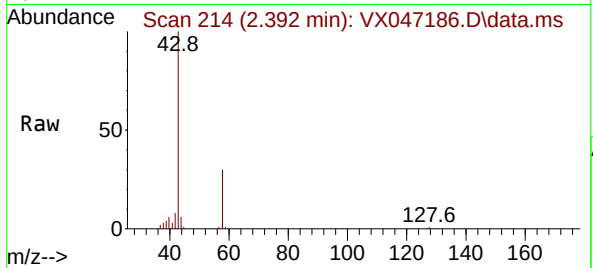




#16
Acetone
Concen: 29.662 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

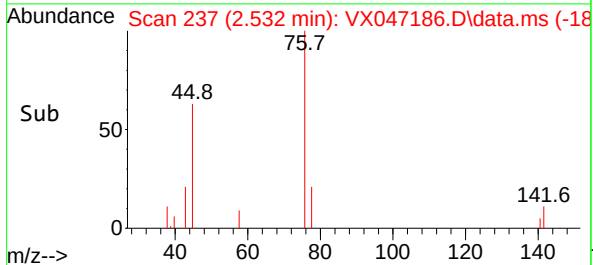
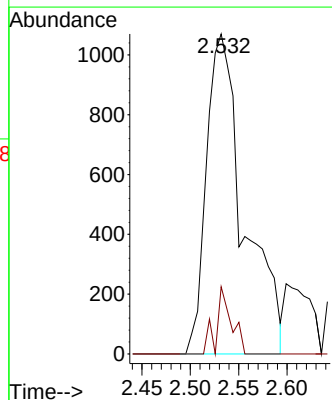
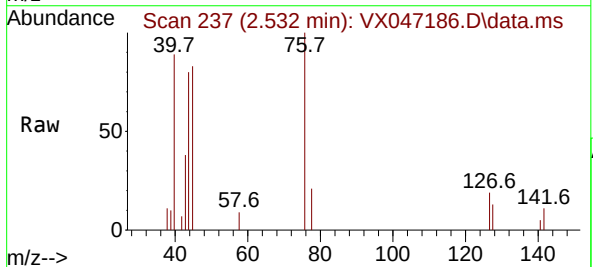
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

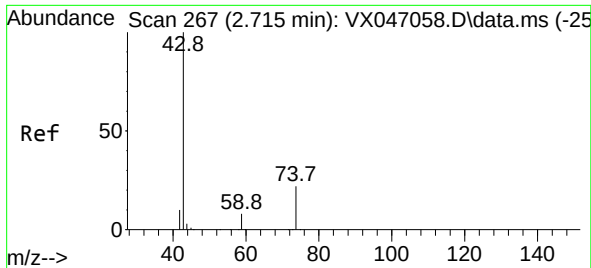
Tgt Ion: 43 Resp: 44844
Ion Ratio Lower Upper
43 100
58 29.6 24.0 36.0



#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 76 Resp: 2891
Ion Ratio Lower Upper
76 100
78 21.0 7.0 10.4#

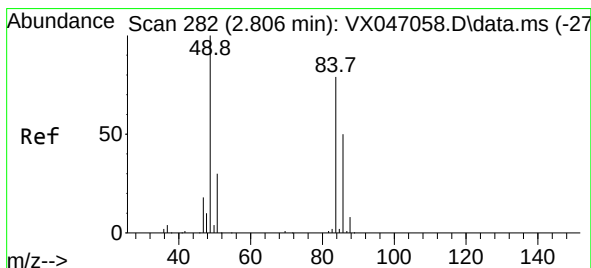
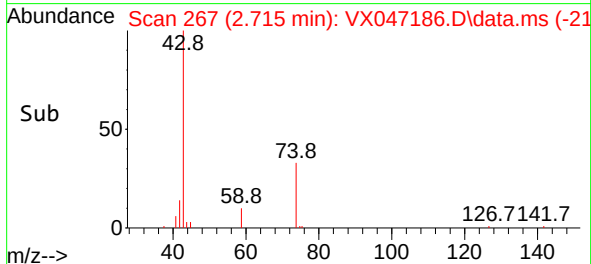
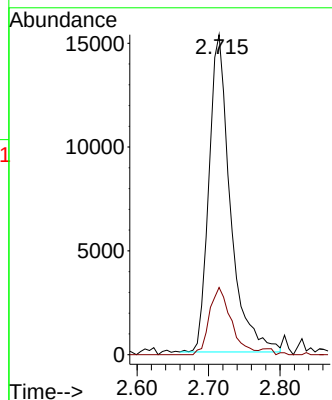
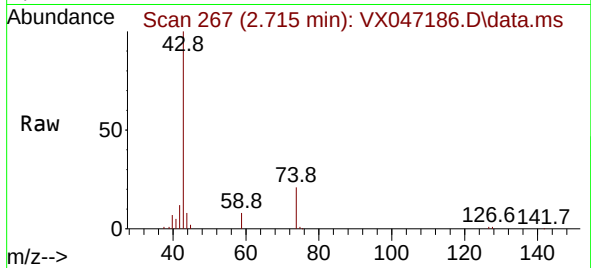




#18
Methyl Acetate
Concen: 7.932 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

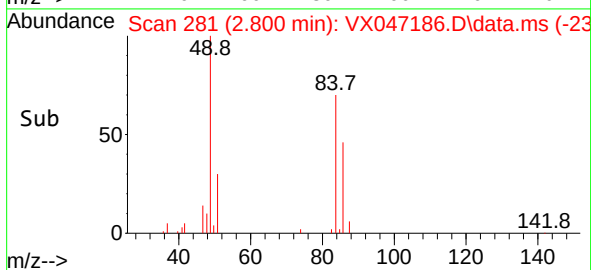
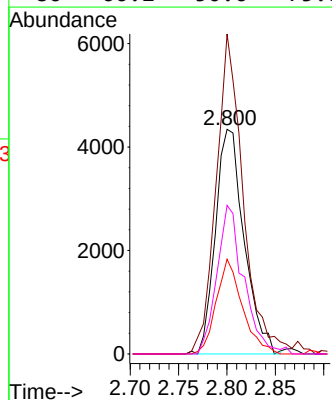
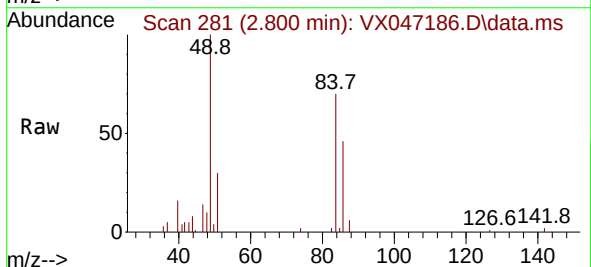
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

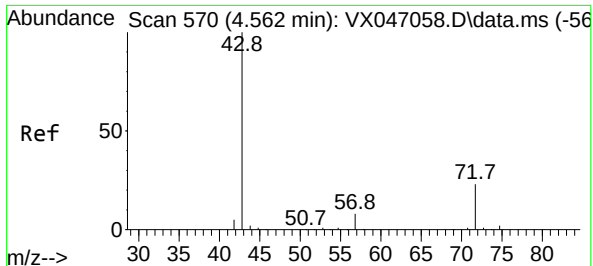
Tgt Ion: 43 Resp: 31869
Ion Ratio Lower Upper
43 100
74 21.6 17.7 26.5



#20
Methylene Chloride
Concen: 2.151 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 84 Resp: 8945
Ion Ratio Lower Upper
84 100
49 142.5 101.6 152.4
51 42.2 30.3 45.5
86 66.2 50.6 75.8

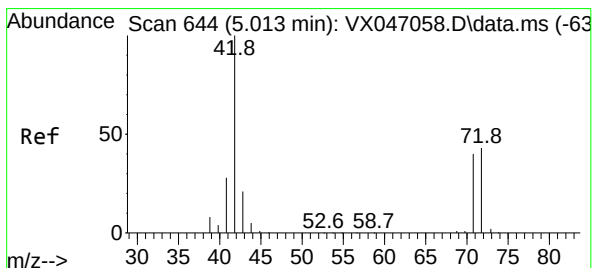
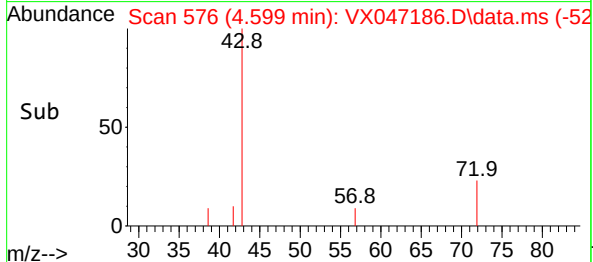
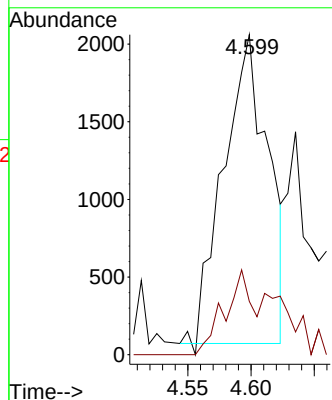
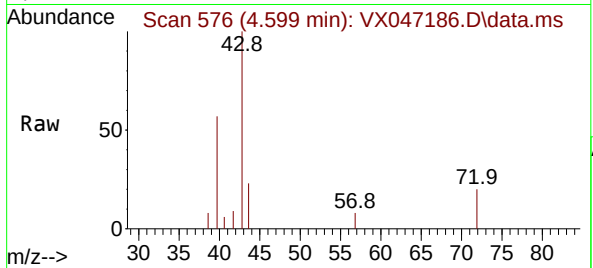




#25
2-Butanone
Concen: 2.207 ug/l
RT: 4.599 min Scan# 51
Delta R.T. 0.037 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

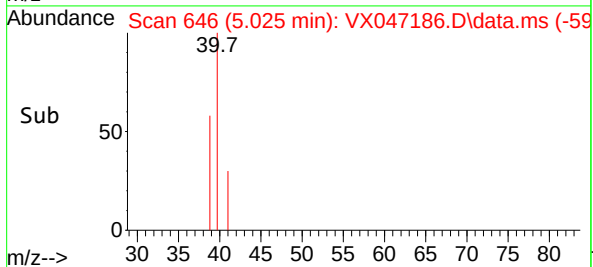
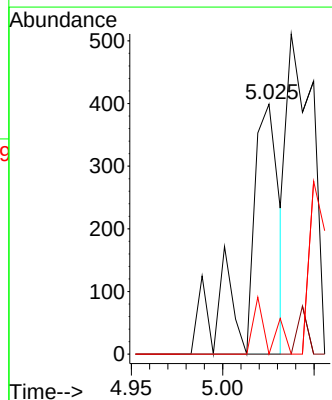
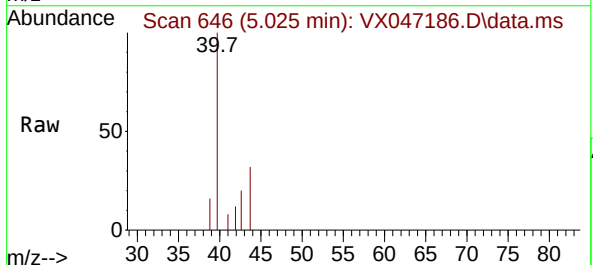
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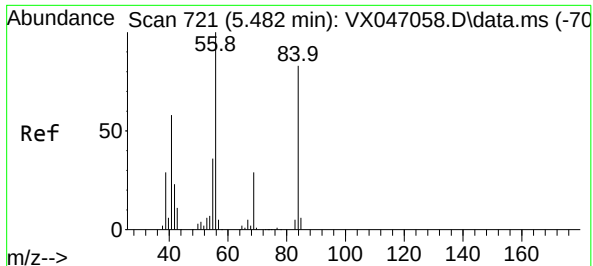
Tgt Ion: 43 Resp: 4859
Ion Ratio Lower Upper
43 100
72 23.1 18.8 28.2



#29
Tetrahydrofuran
Concen: 0.344 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.012 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 42 Resp: 489
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 11.0 31.0 46.4#

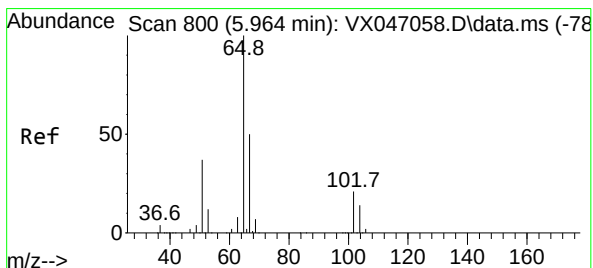
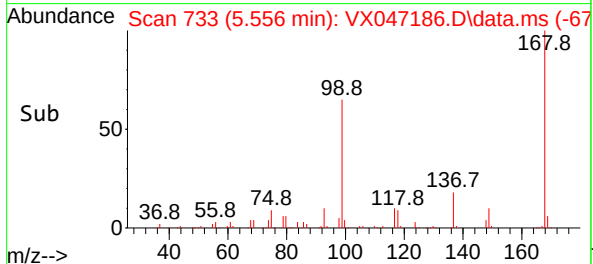
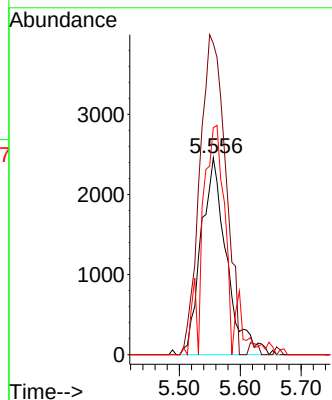
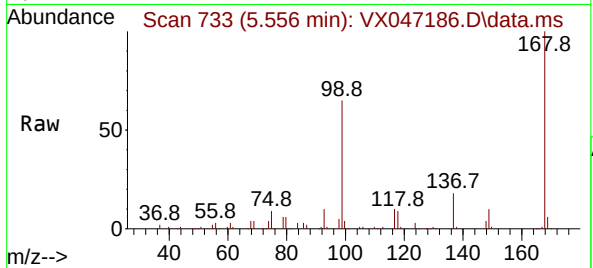




#31
Cyclohexane
Concen: 1.016 ug/l
RT: 5.556 min Scan# 716
Delta R.T. 0.073 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

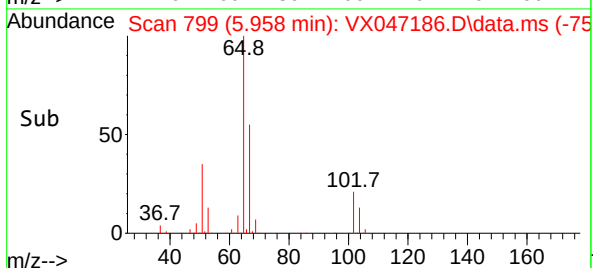
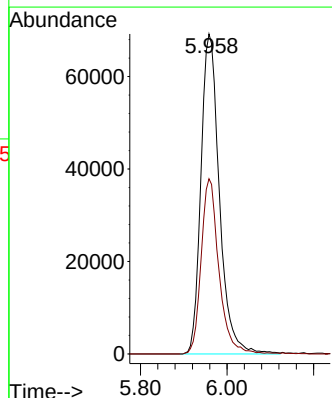
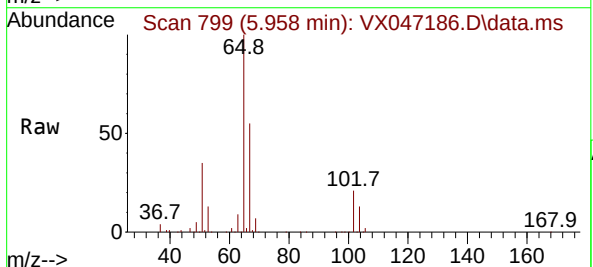
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

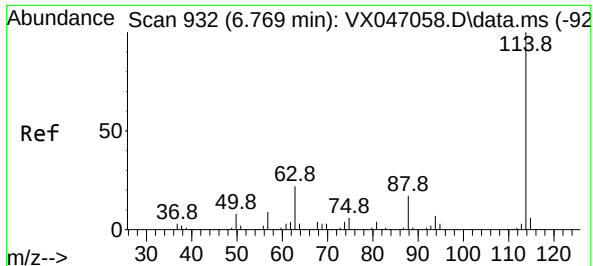
Tgt Ion: 56 Resp: 7166
Ion Ratio Lower Upper
56 100
69 158.0 23.3 34.9#
84 115.3 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 54.276 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 65 Resp: 204834
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.8

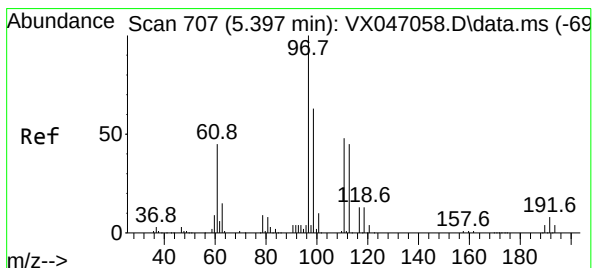
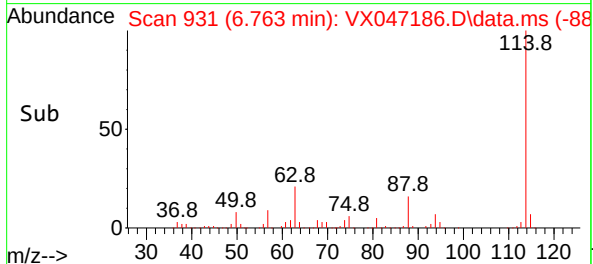
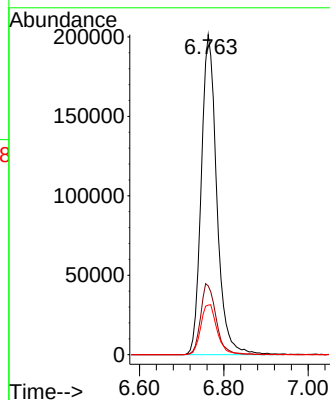
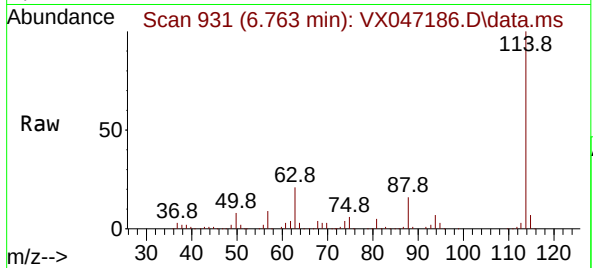




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. -0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

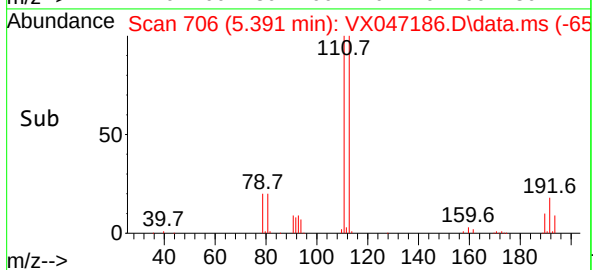
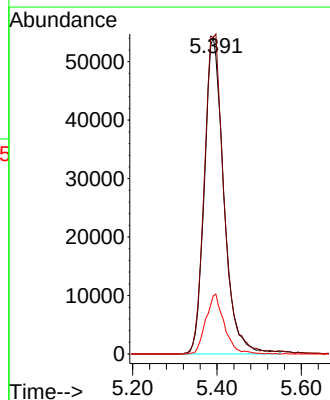
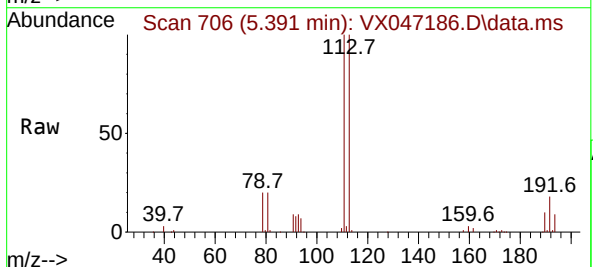
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

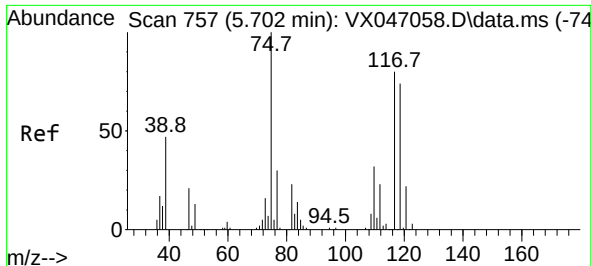
Tgt Ion:114 Resp: 516099
Ion Ratio Lower Upper
114 100
63 21.5 0.0 43.2
88 15.5 0.0 33.8



#35
Dibromofluoromethane
Concen: 54.515 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion:113 Resp: 173716
Ion Ratio Lower Upper
113 100
111 102.0 82.6 124.0
192 17.9 14.9 22.3

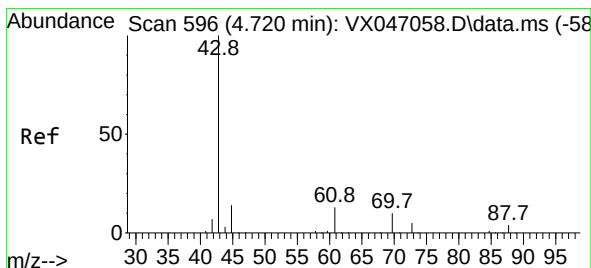
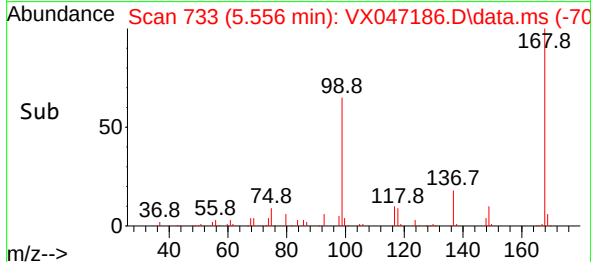
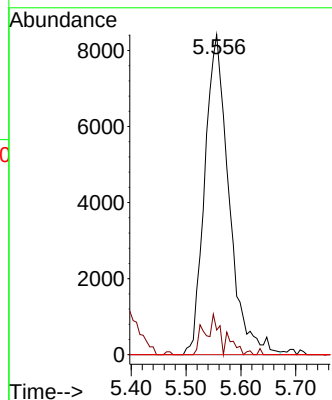
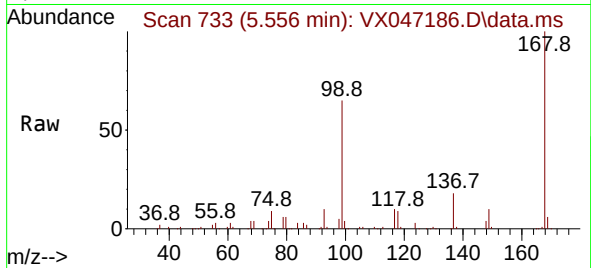




#36
1,1-Dichloropropene
Concen: 4.747 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

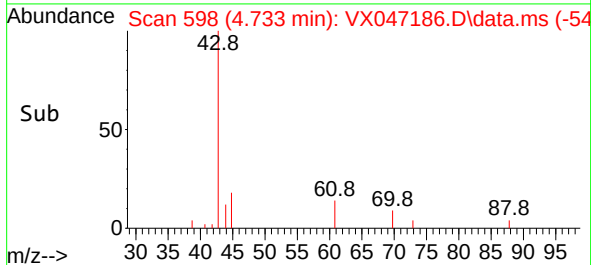
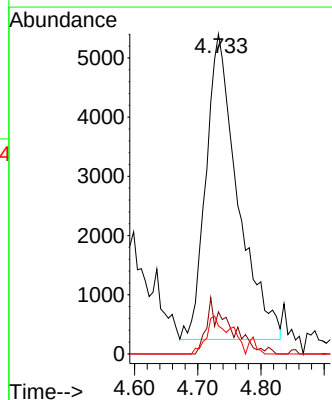
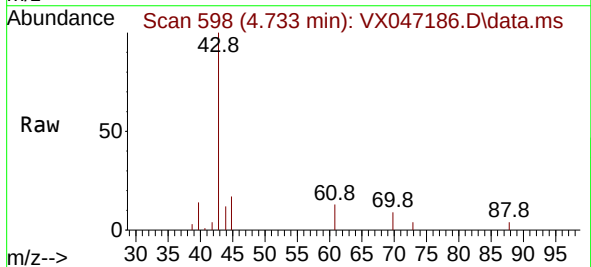
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

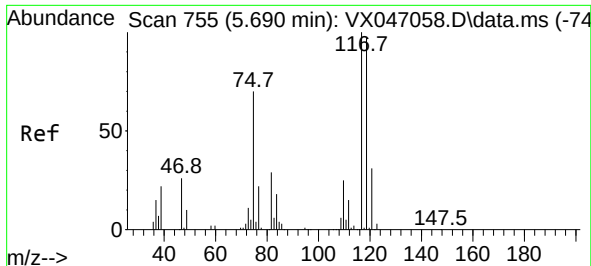
Tgt Ion: 75 Resp: 25783
Ion Ratio Lower Upper
75 100
110 3.5 17.2 51.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 3.591 ug/l
RT: 4.733 min Scan# 598
Delta R.T. 0.012 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

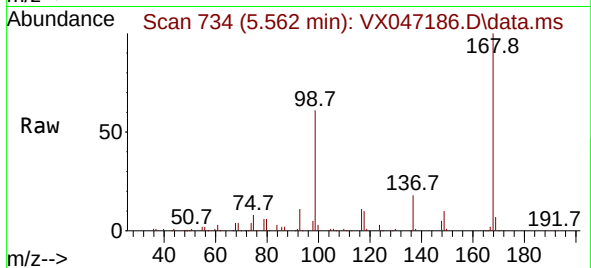
Tgt Ion: 43 Resp: 17972
Ion Ratio Lower Upper
43 100
61 13.7 10.2 15.2
70 6.4 8.1 12.1#



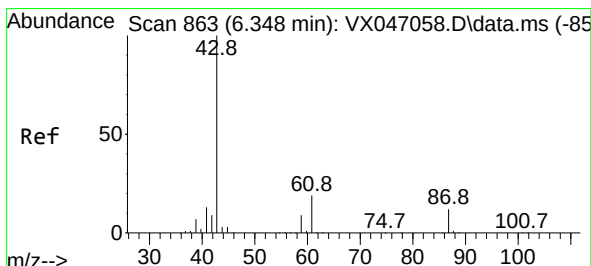
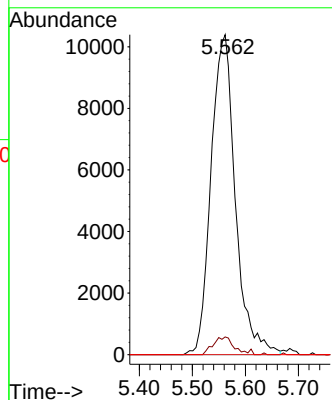
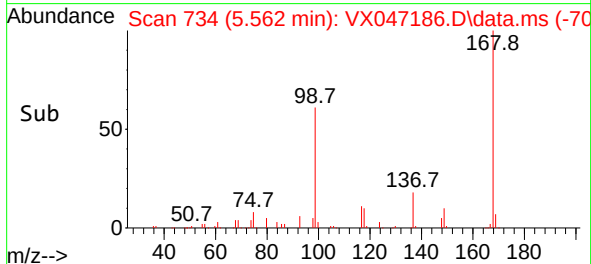


#38
Carbon Tetrachloride
Concen: 5.704 ug/l
RT: 5.562 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Instrument :
MSVOA_X
ClientSampleId :
7211935-295

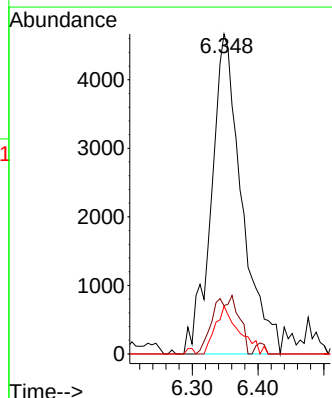
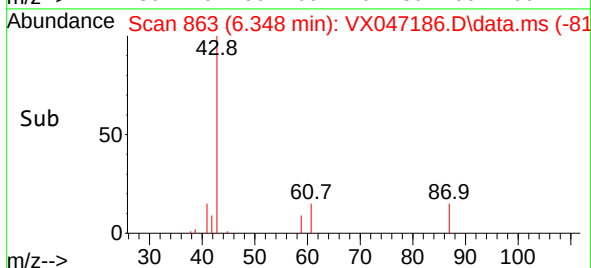
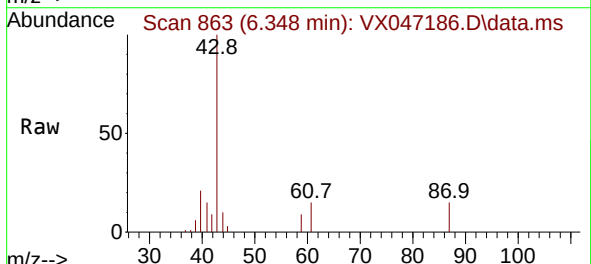


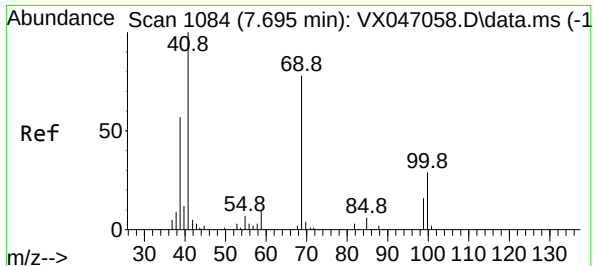
Tgt Ion: 117 Resp: 33066
Ion Ratio Lower Upper
117 100
119 5.6 76.6 115.0#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 1.925 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.000 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 43 Resp: 15024
Ion Ratio Lower Upper
43 100
61 15.6 15.1 22.7
87 11.6 9.7 14.5

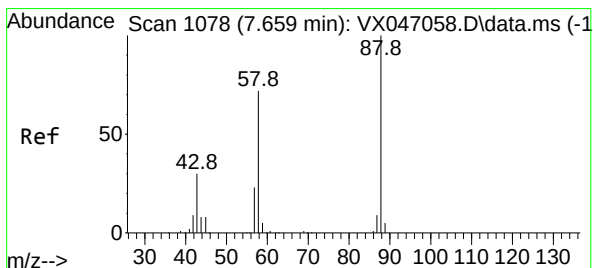
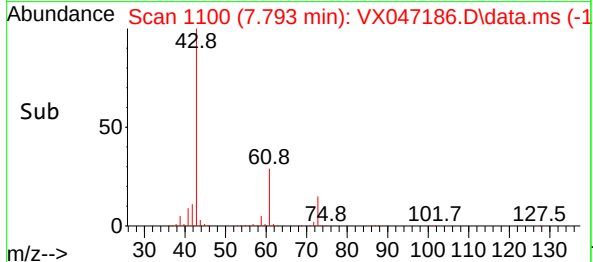
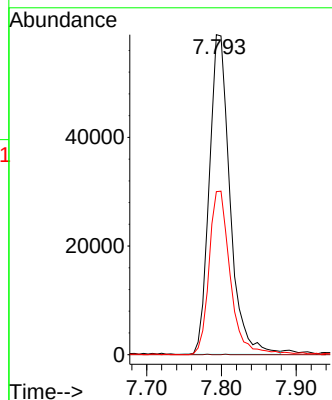
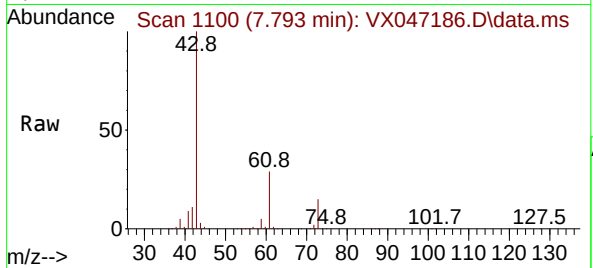




#48
Methyl methacrylate
Concen: 26.573 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.098 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

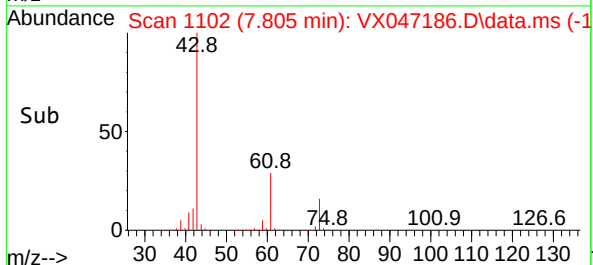
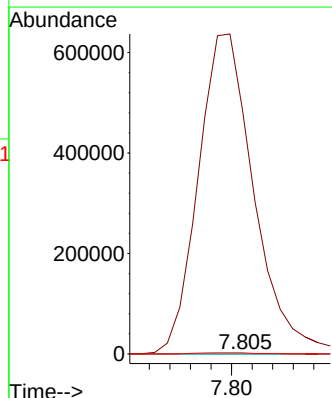
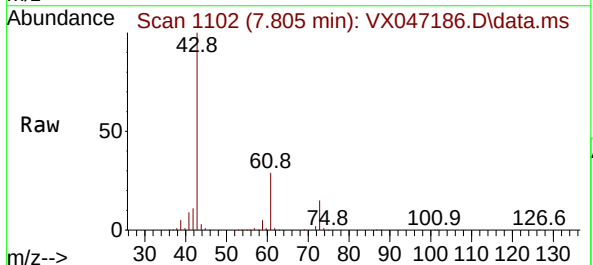
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

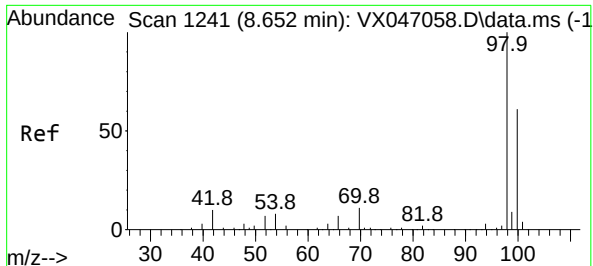
Tgt Ion: 41 Resp: 112955
Ion Ratio Lower Upper
41 100
69 0.0 62.3 93.5#
39 52.5 44.8 67.2



#49
1,4-Dioxane
Concen: 3.289 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. 0.147 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 88 Resp: 159
Ion Ratio Lower Upper
88 100
43 770000.0 33.6 50.4#
58 3268.6 58.8 88.2#

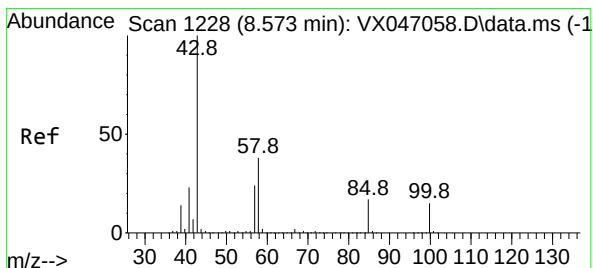
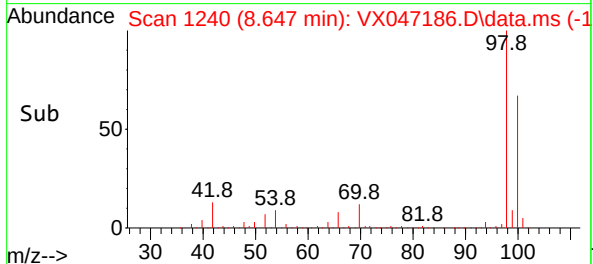
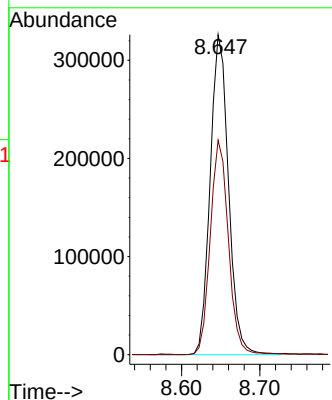
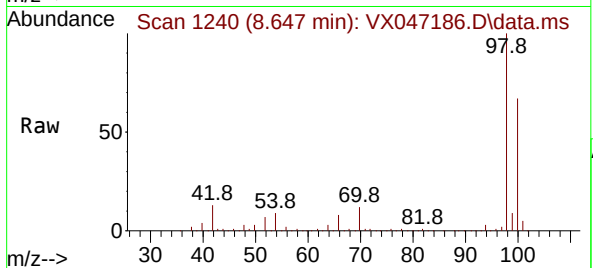




#50
Toluene-d8
Concen: 51.348 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

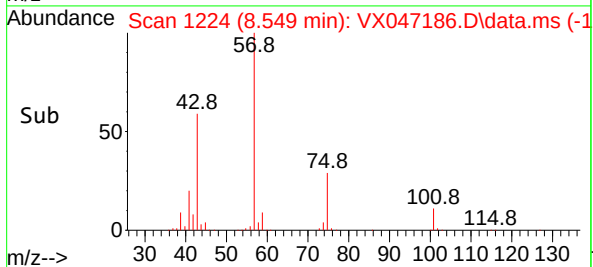
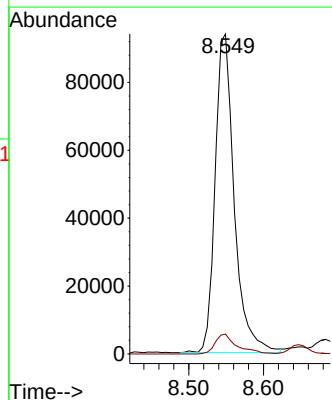
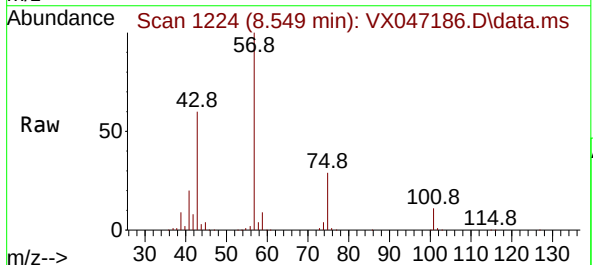
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

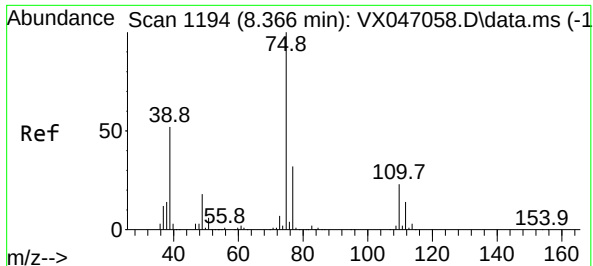
Tgt Ion: 98 Resp: 529897
Ion Ratio Lower Upper
98 100
100 66.2 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 35.996 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 43 Resp: 166945
Ion Ratio Lower Upper
43 100
58 7.1 30.6 45.8#

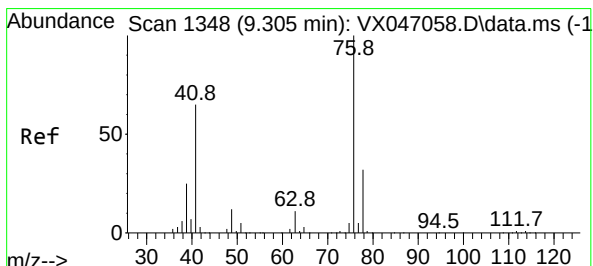
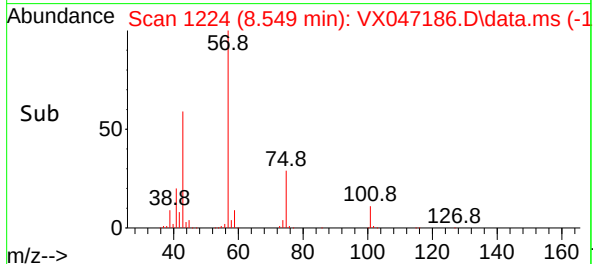
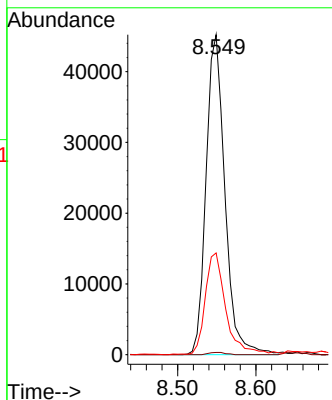
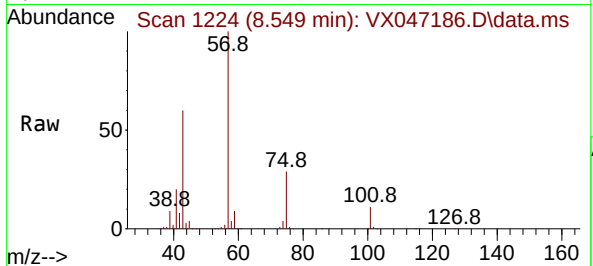




#54
 cis-1,3-Dichloropropene
 Concen: 12.422 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX047186.D
 Acq: 30 Jul 2025 15:00

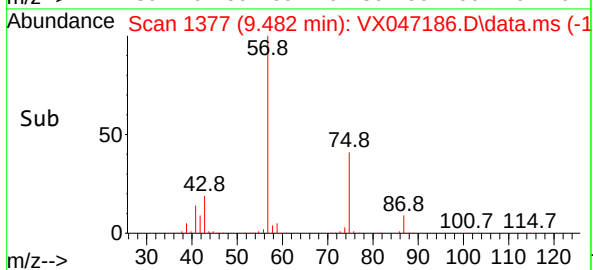
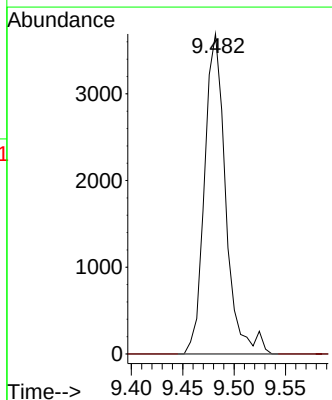
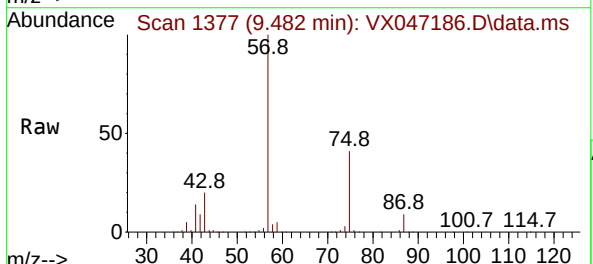
Instrument :
 MSVOA_X
 ClientSampleId :
 7211935-295

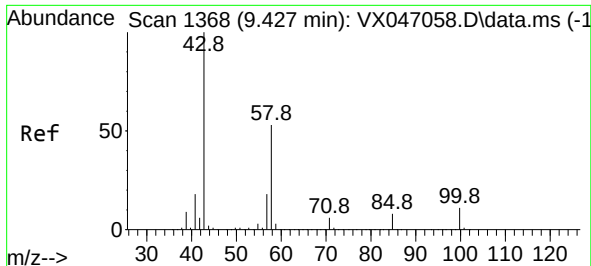
Tgt Ion: 75 Resp: 75445
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 31.7 41.8 62.6#



#57
 1,3-Dichloropropane
 Concen: 0.841 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX047186.D
 Acq: 30 Jul 2025 15:00

Tgt Ion: 76 Resp: 5296
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#

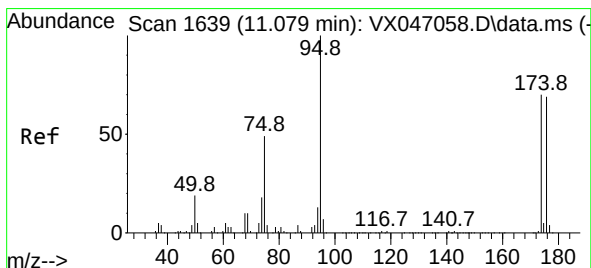
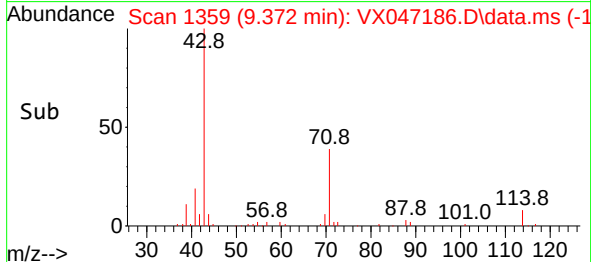
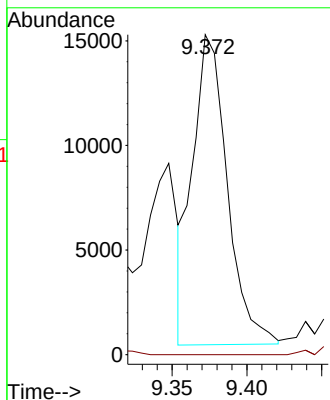
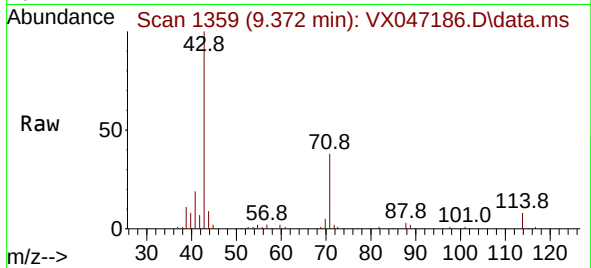




#59
2-Hexanone
Concen: 7.787 ug/l
RT: 9.372 min Scan# 1359
Delta R.T. -0.055 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

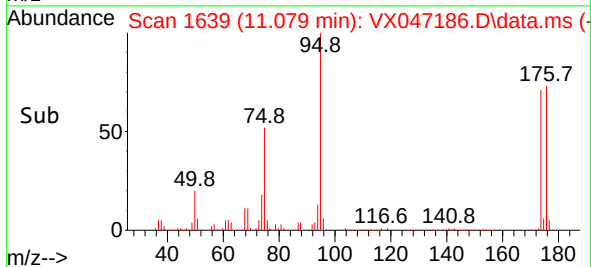
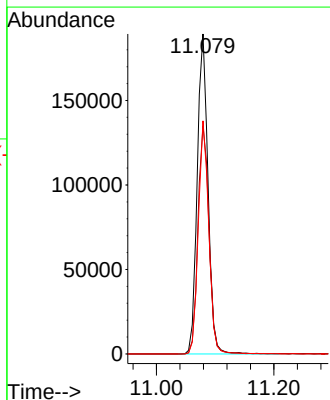
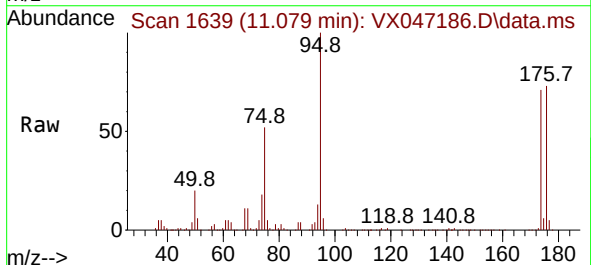
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

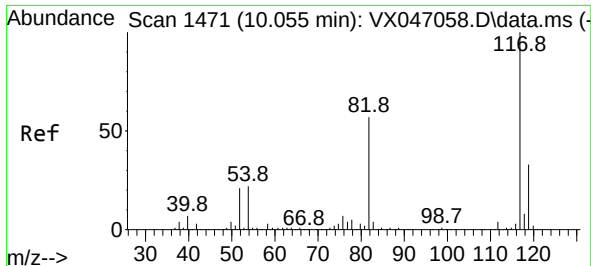
Tgt Ion: 43 Resp: 23860
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 54.108 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion: 95 Resp: 240626
Ion Ratio Lower Upper
95 100
174 72.9 0.0 144.6
176 70.6 0.0 139.6

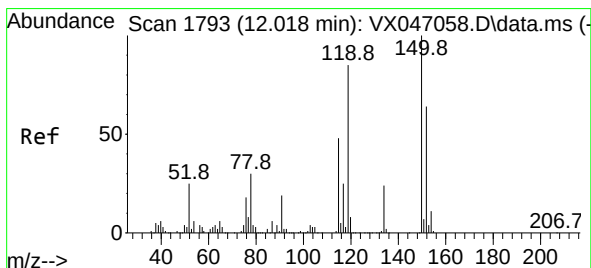
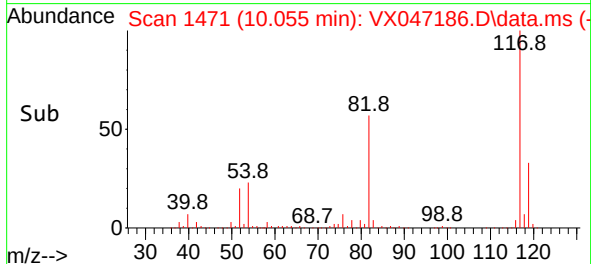
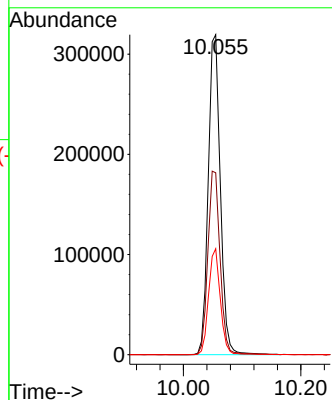
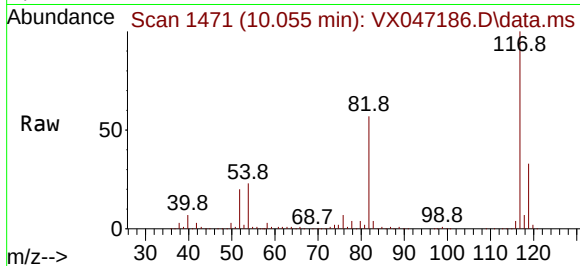




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

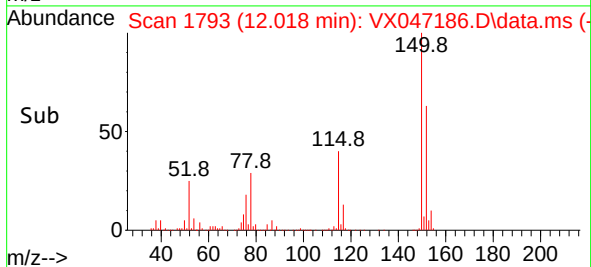
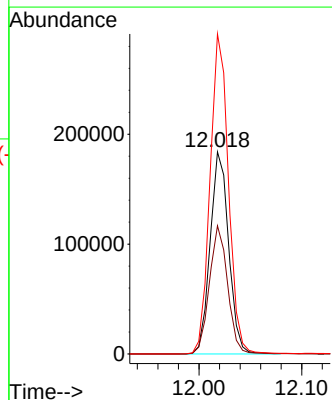
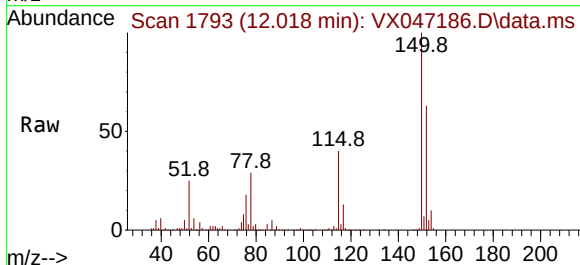
Instrument :
MSVOA_X
ClientSampleId :
7211935-295

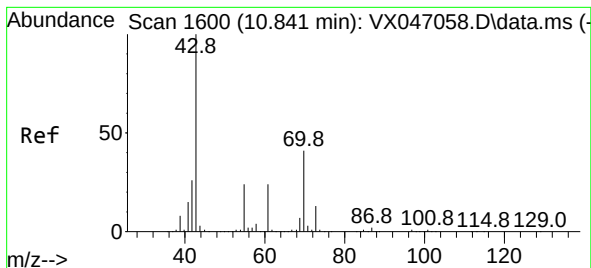
Tgt Ion:117 Resp: 457505
Ion Ratio Lower Upper
117 100
82 56.9 45.4 68.2
119 33.1 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Tgt Ion:152 Resp: 230741
Ion Ratio Lower Upper
152 100
115 62.6 45.6 136.7
150 157.5 0.0 354.6





#74

N-amy1 acetate

Concen: 3.206 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

Lab File: VX047186.D

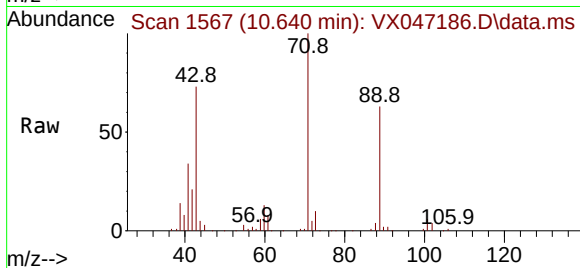
Acq: 30 Jul 2025 15:00

Instrument :

MSVOA_X

ClientSampleId :

7211935-295



Tgt Ion: 43 Resp: 23546

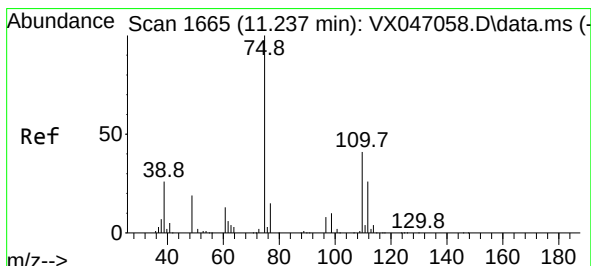
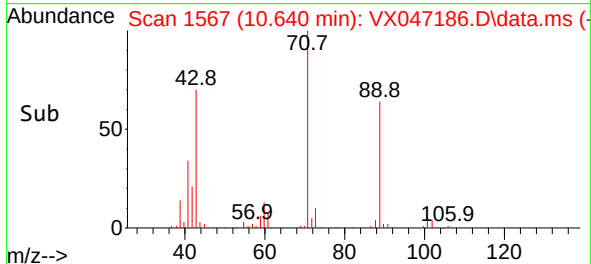
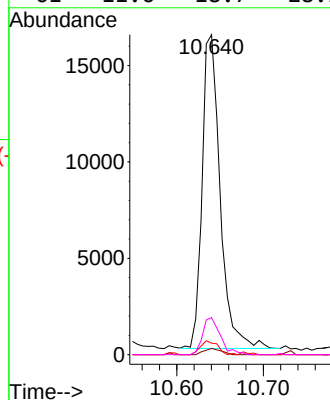
Ion Ratio Lower Upper

43 100

70 1.9 32.3 48.5#

55 4.2 18.9 28.3#

61 11.6 18.7 28.1#



#76

1,2,3-Trichloropropane

Concen: 29.479 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047186.D

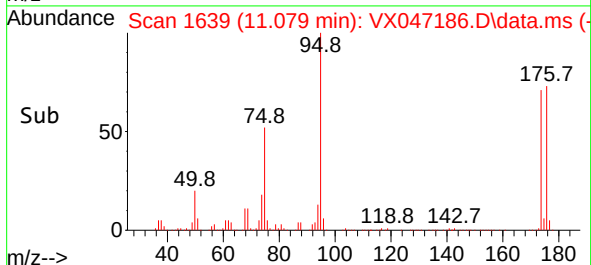
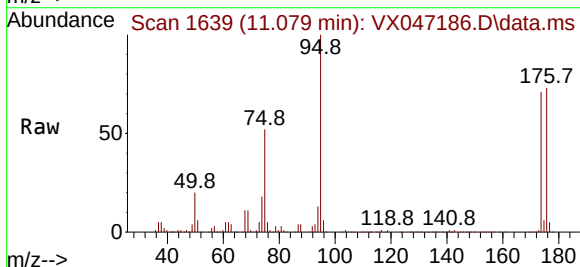
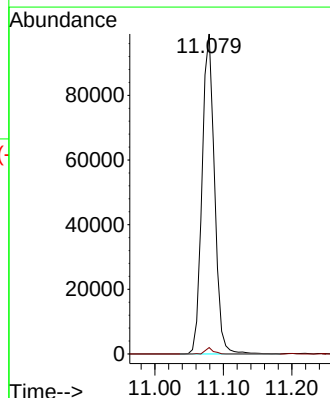
Acq: 30 Jul 2025 15:00

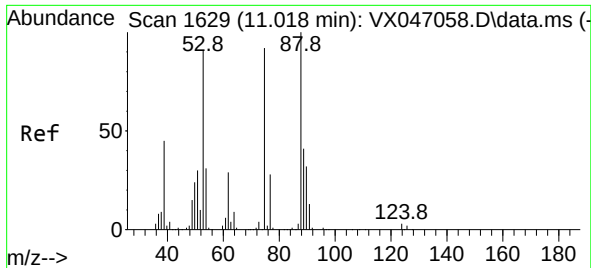
Tgt Ion: 75 Resp: 125901

Ion Ratio Lower Upper

75 100

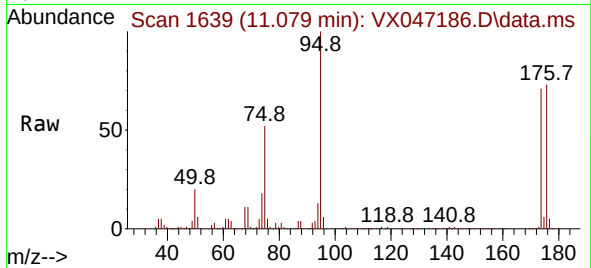
77 1.3 21.6 65.0#





#81
trans-1,4-Dichloro-2-butene
Concen: 75.949 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047186.D
Acq: 30 Jul 2025 15:00

Instrument :
MSVOA_X
ClientSampleId :
7211935-295



Tgt Ion: 75 Resp: 125901
Ion Ratio Lower Upper
75 100
53 0.1 84.2 126.4#
89 0.0 36.0 54.0#

