

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046221.D
 Acq On : 15 May 2025 18:04
 Operator : JC/MD
 Sample : Q2034-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 16 01:09:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

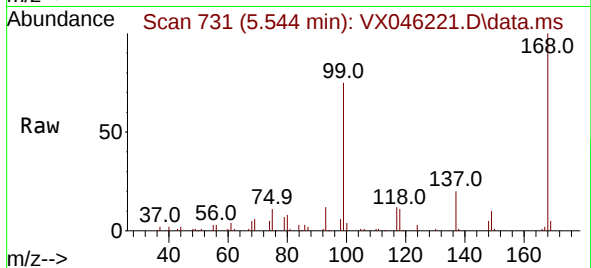
Internal Standards						
1) Pentafluorobenzene	5.544	168	62263	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	126954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64665	55.708	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	= 111.420%		
35) Dibromofluoromethane	5.385	113	46875	51.274	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	= 102.540%		
50) Toluene-d8	8.647	98	163601	51.704	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	= 103.400%		
62) 4-Bromofluorobenzene	11.079	95	63189	52.062	ug/l	0.00
Spiked Amount 50.000	Range 77	- 121	Recovery	= 104.120%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.246	50	227	0.246	ug/l #	43
5) Bromomethane	1.599	94	81	0.203	ug/l #	4
11) Tert butyl alcohol	2.971	59	848	5.204	ug/l #	72
16) Acetone	2.386	43	19161	41.169	ug/l	96
18) Methyl Acetate	2.709	43	3590	3.324	ug/l	97
20) Methylene Chloride	2.782	84	14689	16.469	ug/l	98
25) 2-Butanone	4.586	43	5549	8.212	ug/l	99
29) Tetrahydrofuran	5.013	42	94	0.222	ug/l #	35
31) Cyclohexane	5.544	56	1863	1.347	ug/l #	19
36) 1,1-Dichloropropene	5.544	75	6387	5.200	ug/l #	50
37) Ethyl Acetate	4.586	43	5549	3.656	ug/l #	70
38) Carbon Tetrachloride	5.550	117	7538	5.462	ug/l #	17
41) Methacrylonitrile	5.025	41	166	0.209	ug/l #	38
43) Isopropyl Acetate	6.342	43	13415	5.794	ug/l	99
48) Methyl methacrylate	7.793	41	56083	47.432	ug/l #	49
51) 4-Methyl-2-Pentanone	8.549	43	47857	31.141	ug/l #	52
53) t-1,3-Dichloropropene	8.951	75	354	0.287	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	18583	13.611	ug/l #	63
56) Ethyl methacrylate	9.250	69	364	0.263	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	1851	1.185	ug/l #	42
59) 2-Hexanone	9.372	43	15310	13.466	ug/l #	28
74) N-amyl acetate	10.774	43	2524	1.282	ug/l #	48
76) 1,2,3-Trichloropropane	11.079	75	36231	29.405	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	36231	95.735	ug/l #	1

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

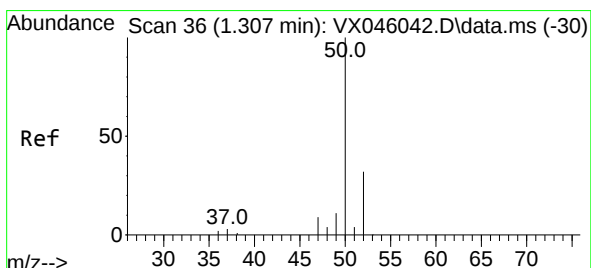
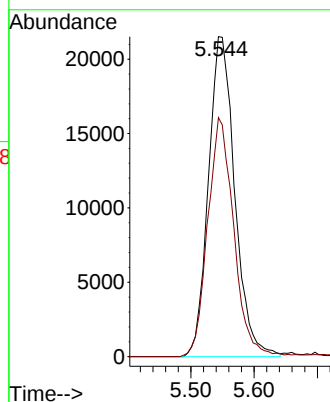
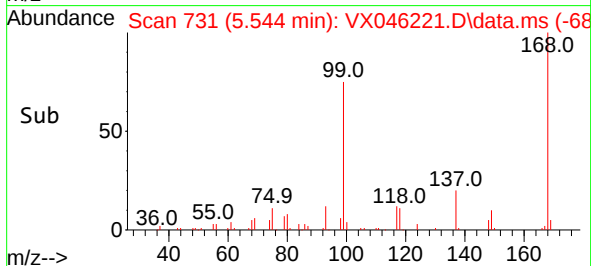


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Instrument :
MSVOA_X
ClientSampleId :

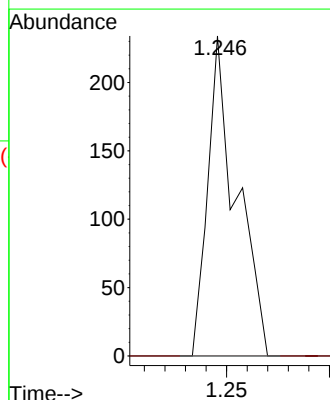
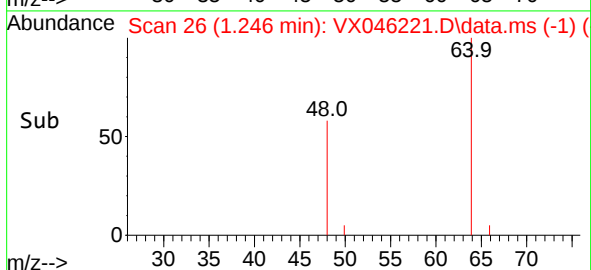
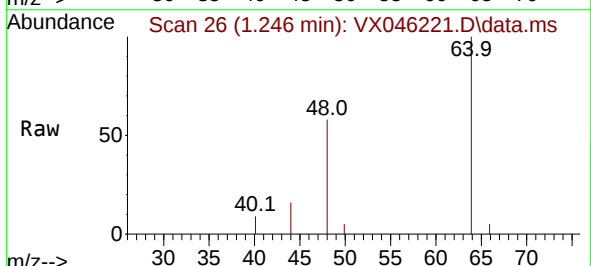


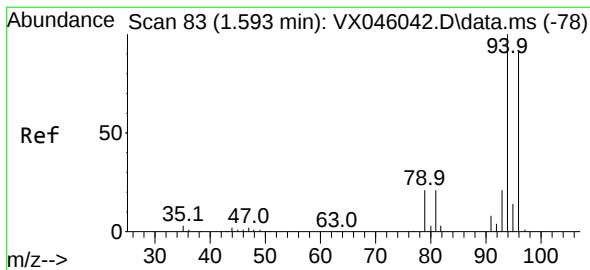
Tgt Ion:168 Resp: 62263
Ion Ratio Lower Upper
168 100
99 74.7 54.9 82.3



#3
Chloromethane
Concen: 0.246 ug/l
RT: 1.246 min Scan# 26
Delta R.T. -0.061 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion: 50 Resp: 227
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#





#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.599 min Scan# 84

Delta R.T. 0.006 min

Lab File: VX046221.D

Acq: 15 May 2025 18:04

Instrument :

MSVOA_X

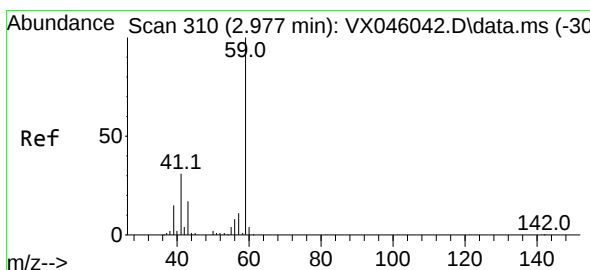
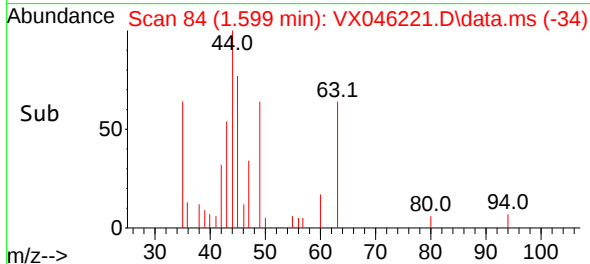
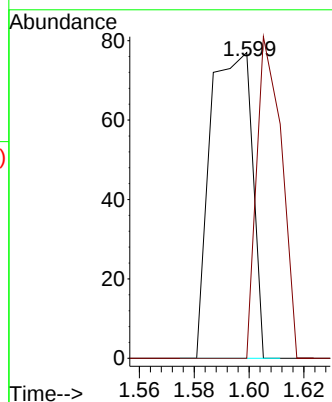
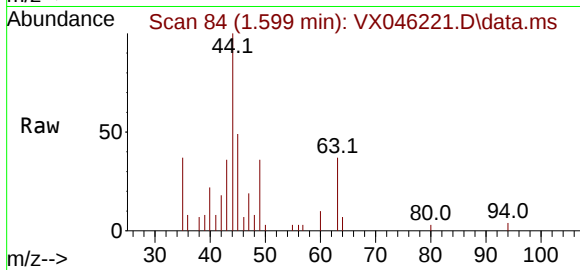
ClientSampleId :

Tgt Ion: 94 Resp: 81

Ion Ratio Lower Upper

94 100

96 0.0 72.8 109.2#



#11

Tert butyl alcohol

Concen: 5.204 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX046221.D

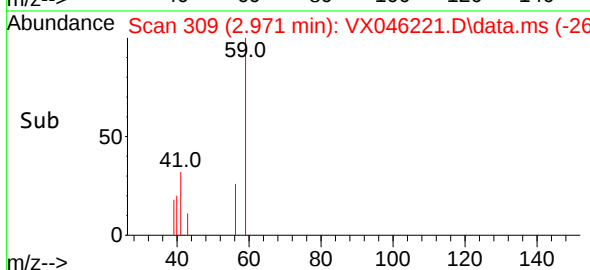
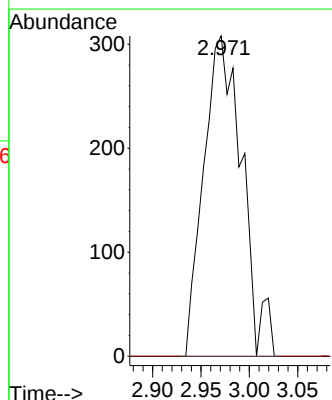
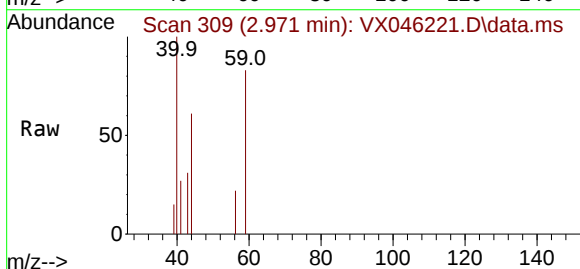
Acq: 15 May 2025 18:04

Tgt Ion: 59 Resp: 848

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

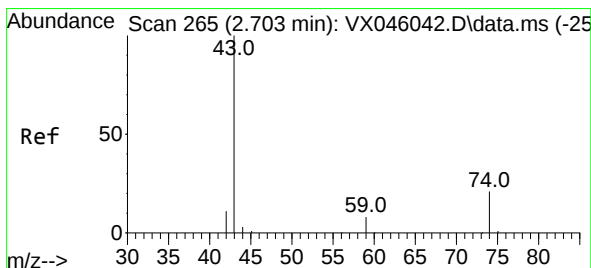
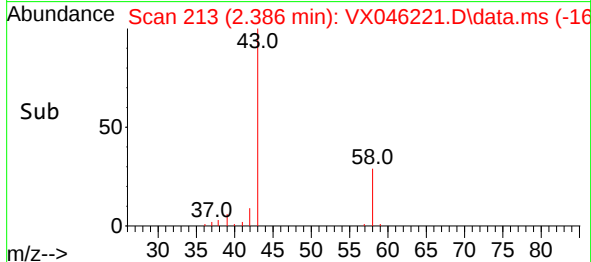
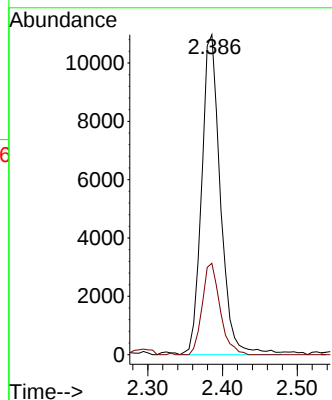
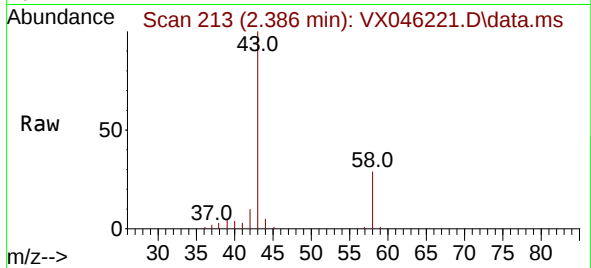




#16
Acetone
Concen: 41.169 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

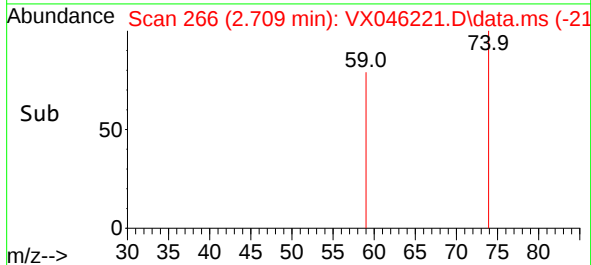
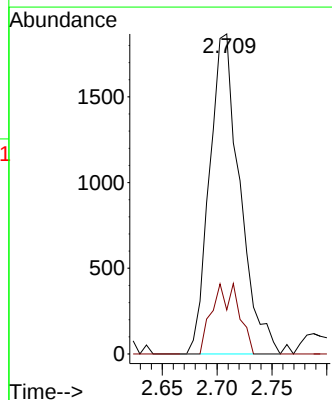
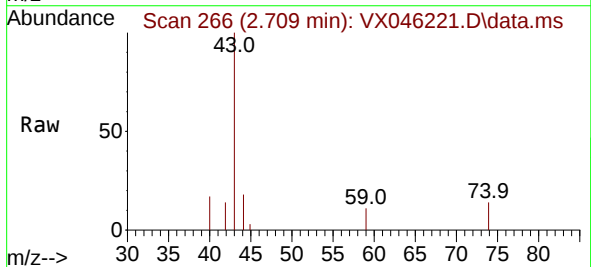
Instrument :
MSVOA_X
ClientSampleId :

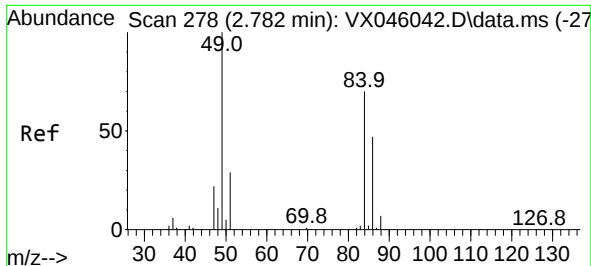
Tgt Ion: 43 Resp: 19161
Ion Ratio Lower Upper
43 100
58 28.6 21.2 31.8



#18
Methyl Acetate
Concen: 3.324 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

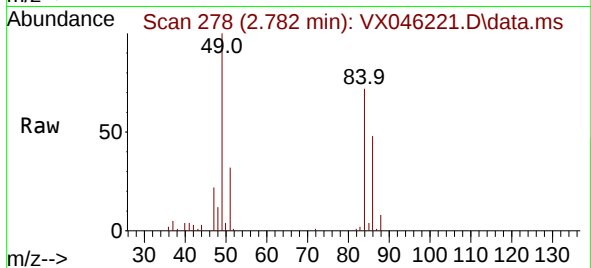
Tgt Ion: 43 Resp: 3590
Ion Ratio Lower Upper
43 100
74 19.3 16.7 25.1



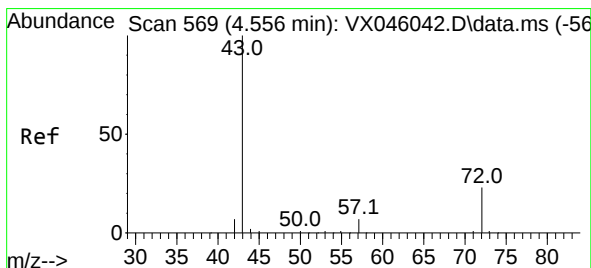
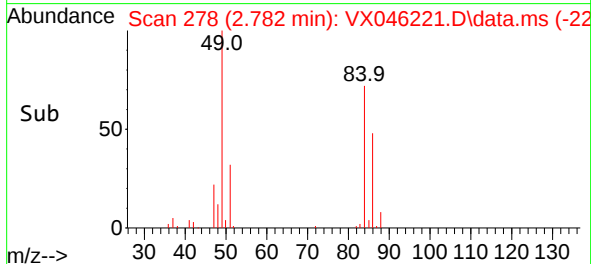
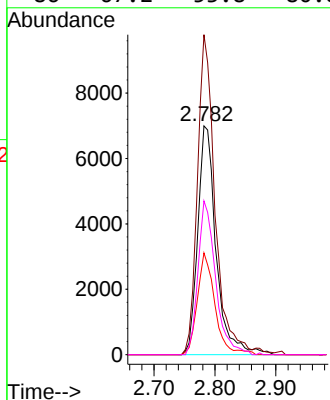


#20
Methylene Chloride
Concen: 16.469 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Instrument :
MSVOA_X
ClientSampleId :

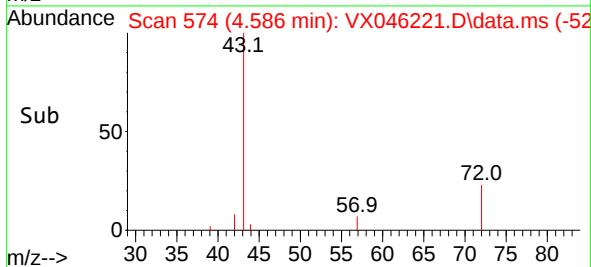
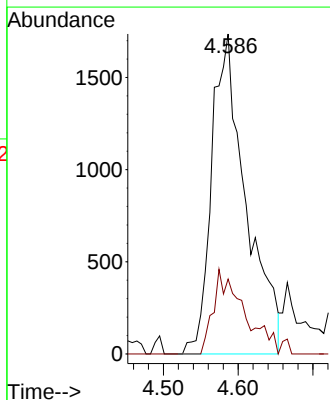
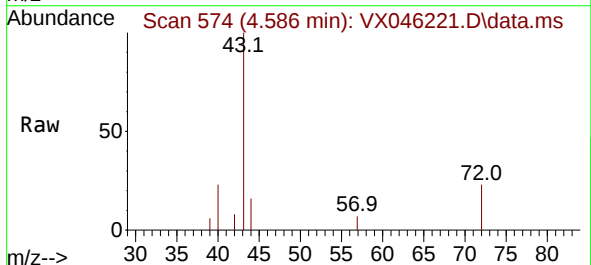


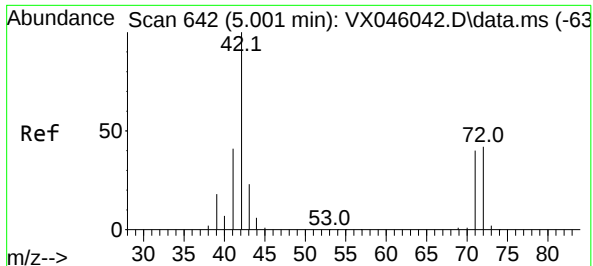
Tgt Ion:	84	Resp:	14689
Ion	Ratio	Lower	Upper
84	100		
49	139.8	113.9	170.9
51	44.4	33.5	50.3
86	67.2	53.8	80.8



#25
2-Butanone
Concen: 8.212 ug/l
RT: 4.586 min Scan# 574
Delta R.T. 0.030 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion:	43	Resp:	5549
Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6





#29

Tetrahydrofuran

Concen: 0.222 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.012 min

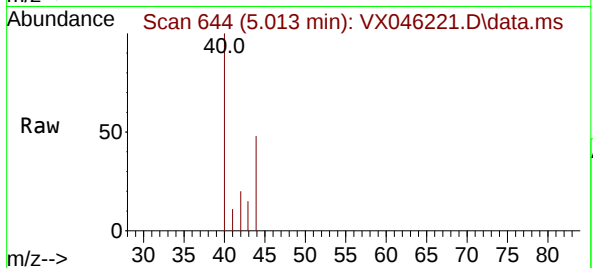
Lab File: VX046221.D

Acq: 15 May 2025 18:04

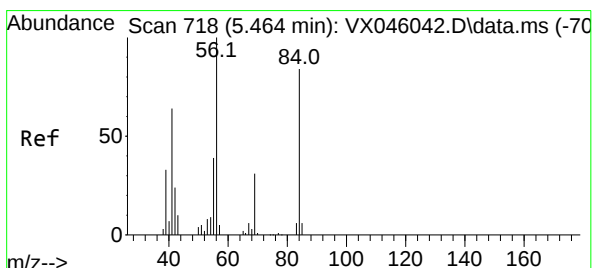
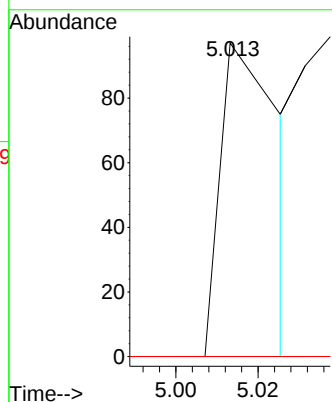
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	42	Resp:	94
Ion Ratio	Lower	Upper	
42	100		
72	0.0	33.7	50.5#
71	0.0	31.4	47.2#



#31

Cyclohexane

Concen: 1.347 ug/l

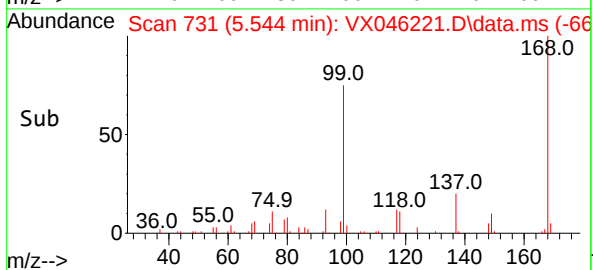
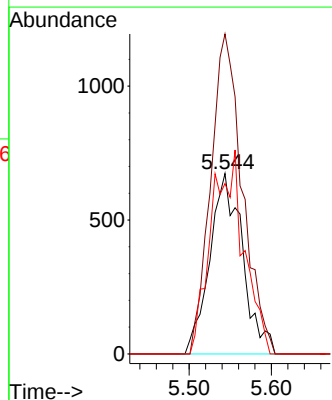
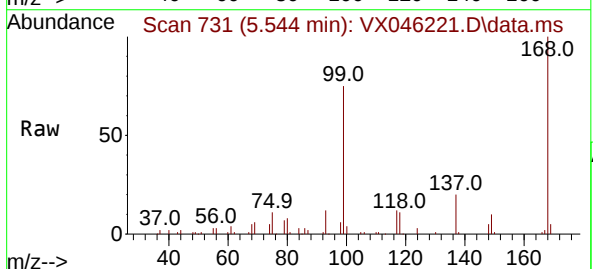
RT: 5.544 min Scan# 731

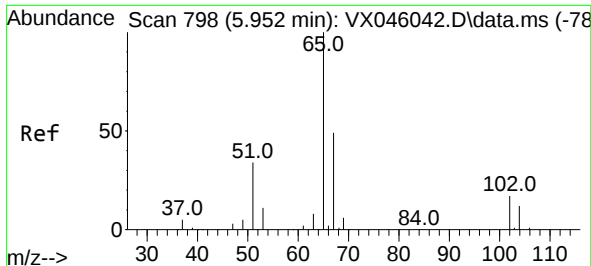
Delta R.T. 0.079 min

Lab File: VX046221.D

Acq: 15 May 2025 18:04

Tgt Ion:	56	Resp:	1863
Ion Ratio	Lower	Upper	
56	100		
69	177.3	24.4	36.6#
84	94.4	66.9	100.3





#33

1,2-Dichloroethane-d4

Concen: 55.708 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046221.D

Acq: 15 May 2025 18:04

Instrument :

MSVOA_X

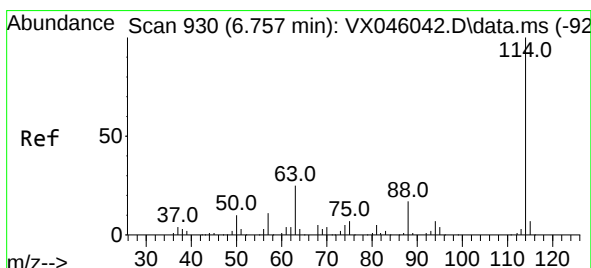
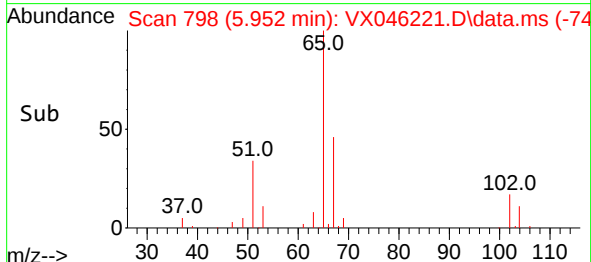
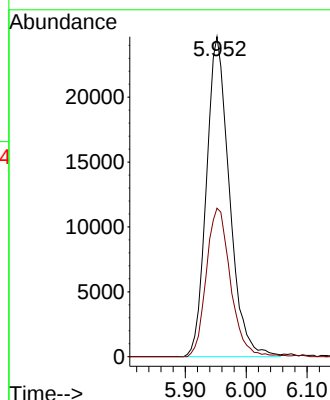
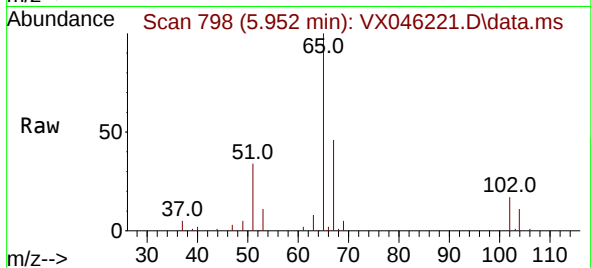
ClientSampleId :

Tgt Ion: 65 Resp: 64665

Ion Ratio Lower Upper

65 100

67 48.8 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046221.D

Acq: 15 May 2025 18:04

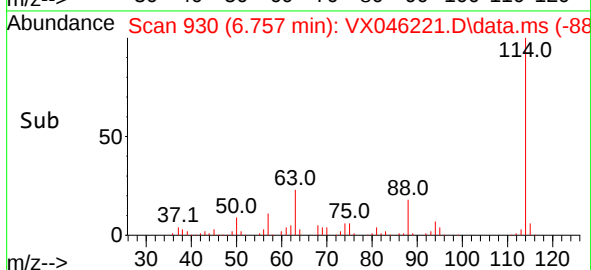
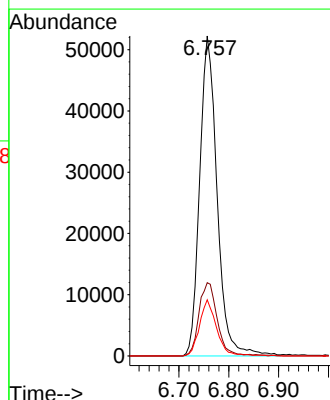
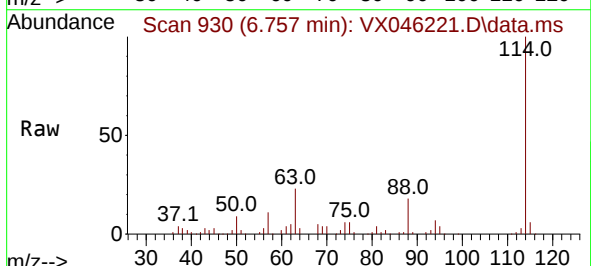
Tgt Ion: 114 Resp: 126954

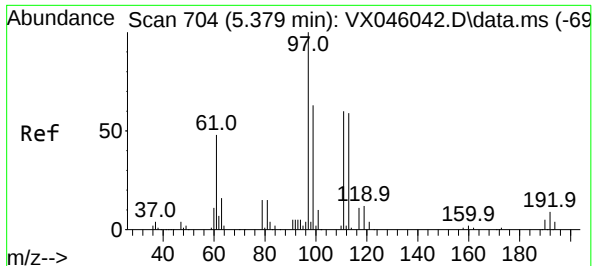
Ion Ratio Lower Upper

114 100

63 22.9 0.0 49.2

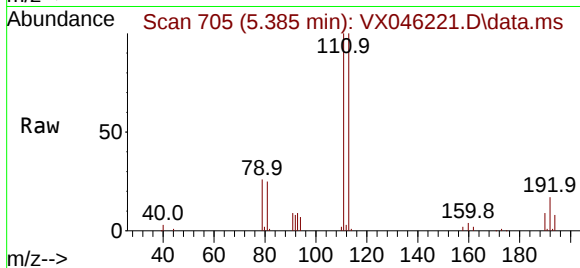
88 17.5 0.0 33.6



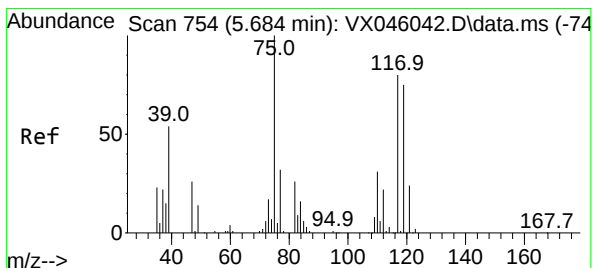
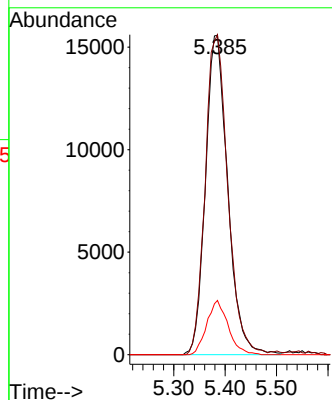
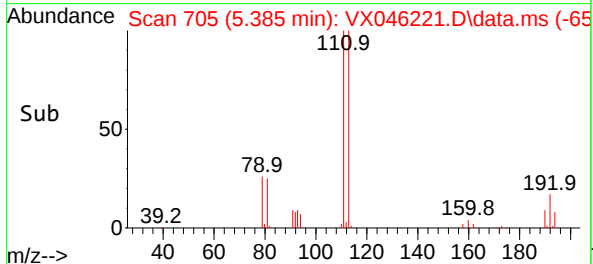


#35
Dibromofluoromethane
Concen: 51.274 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

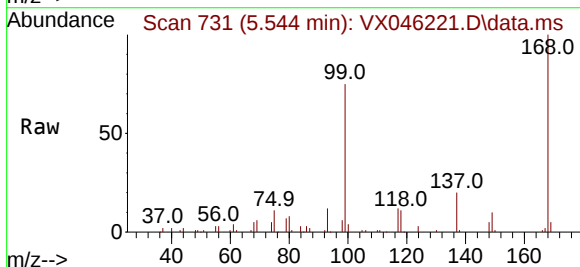
Instrument :
MSVOA_X
ClientSampleId :



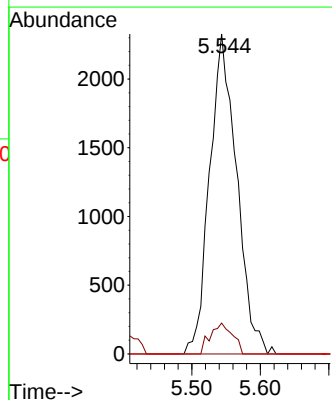
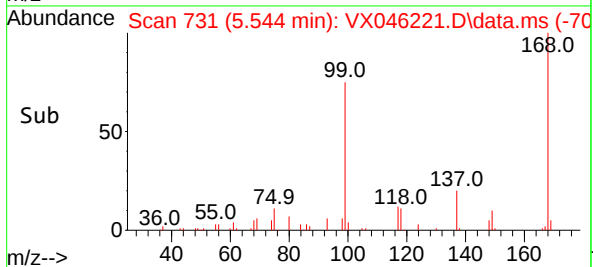
Tgt Ion:113 Resp: 46875
Ion Ratio Lower Upper
113 100
111 101.7 83.1 124.7
192 16.3 13.3 19.9

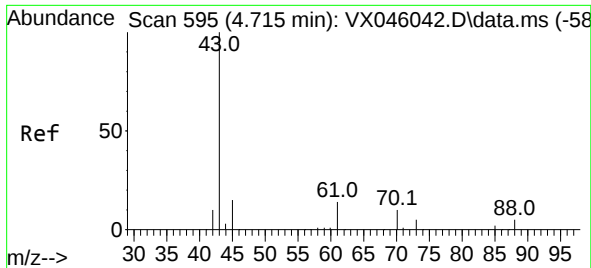


#36
1,1-Dichloropropene
Concen: 5.200 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04



Tgt Ion: 75 Resp: 6387
Ion Ratio Lower Upper
75 100
110 7.9 16.3 48.9#
77 0.0 24.3 36.5#

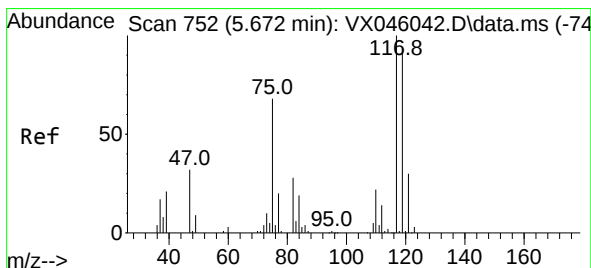
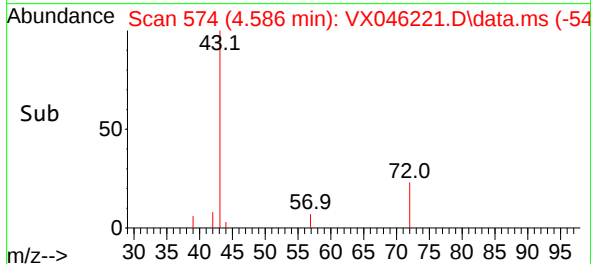
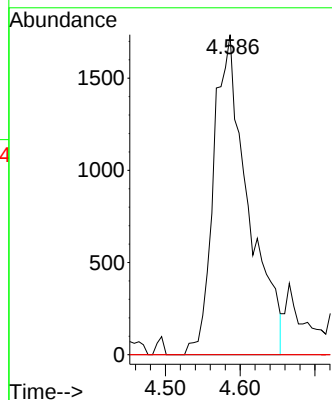
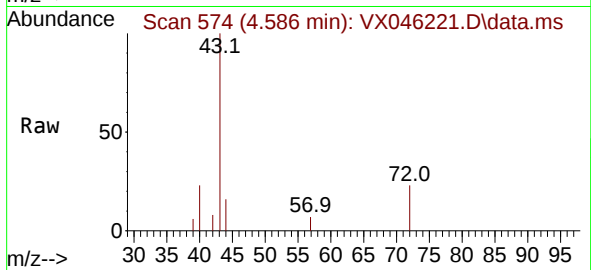




#37
Ethyl Acetate
Concen: 3.656 ug/l
RT: 4.586 min Scan# 51
Delta R.T. -0.128 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

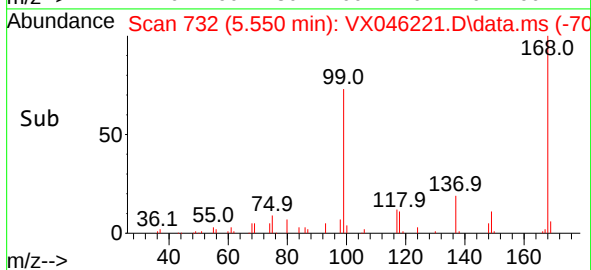
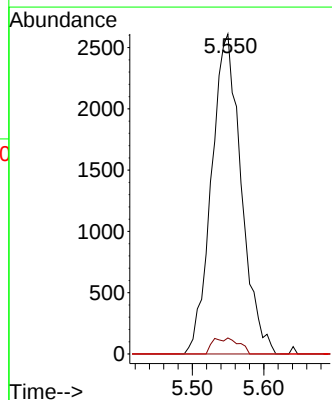
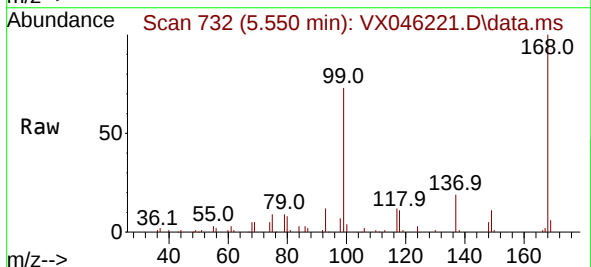
Instrument :
MSVOA_X
ClientSampleId :

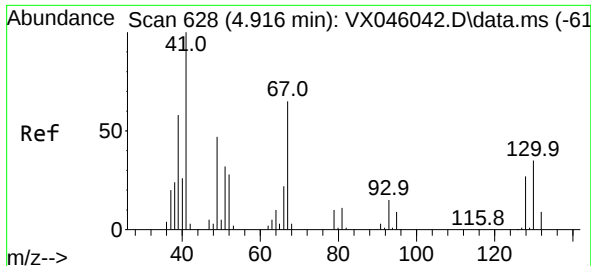
Tgt Ion: 43 Resp: 5549
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 5.462 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.122 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion: 117 Resp: 7538
Ion Ratio Lower Upper
117 100
119 5.0 75.2 112.8#
121 0.0 24.2 36.4#

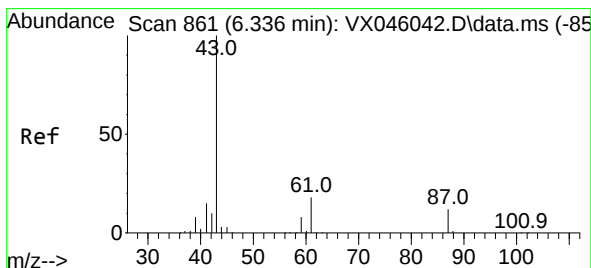
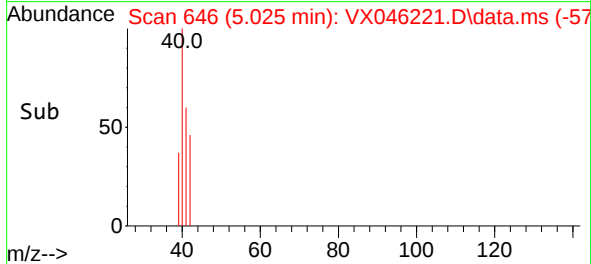
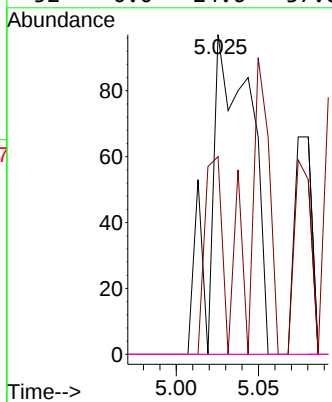
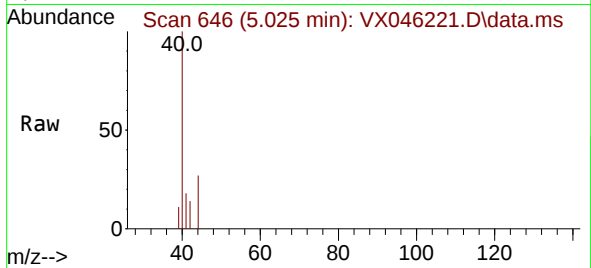




#41
Methacrylonitrile
Concen: 0.209 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.110 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

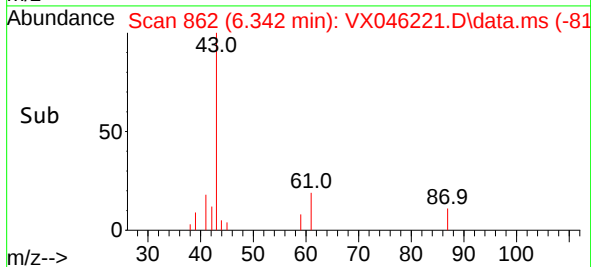
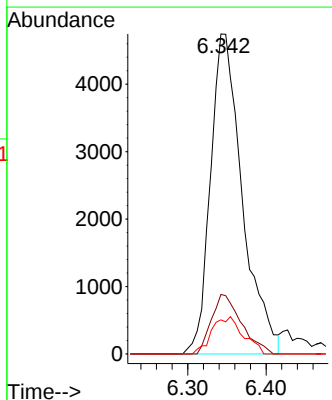
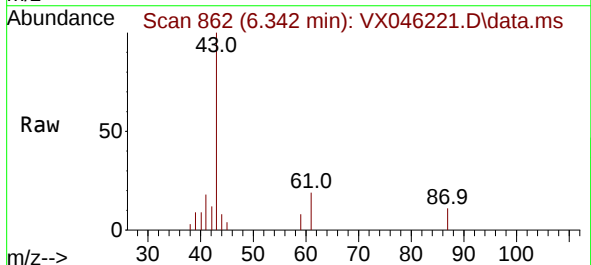
Instrument :
MSVOA_X
ClientSampleId :

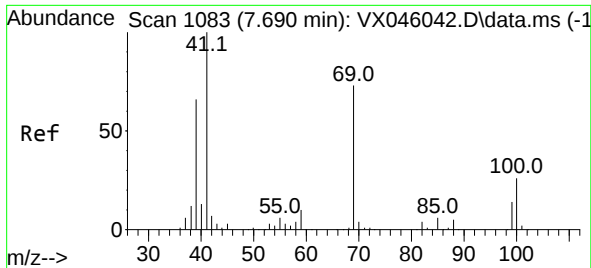
Tgt Ion: 41	Resp: 166
Ion Ratio	Lower Upper
41	100
39	25.9 47.2 70.8#
67	0.0 50.7 76.1#
52	0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 5.794 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion: 43	Resp: 13415
Ion Ratio	Lower Upper
43	100
61	17.5 14.3 21.5
87	11.4 9.5 14.3

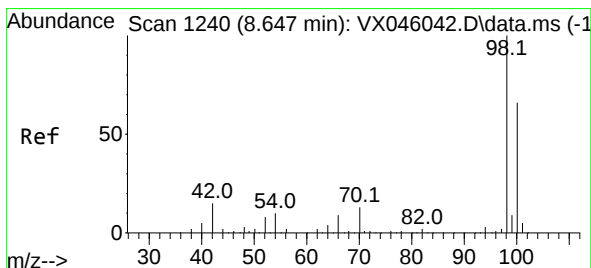
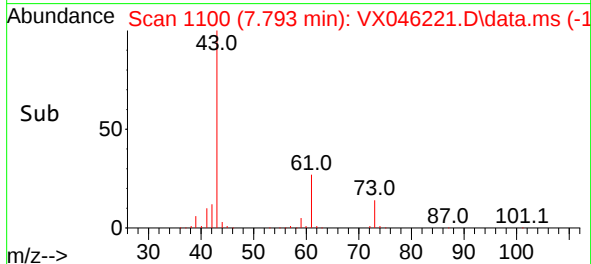
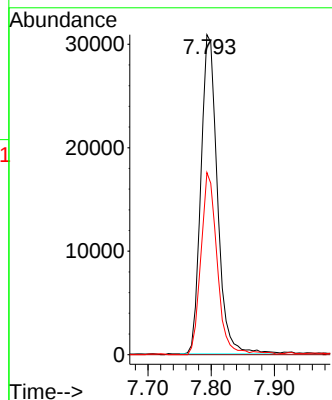
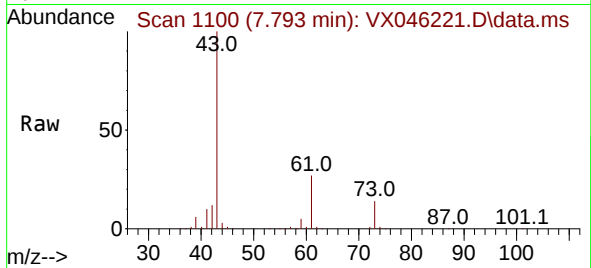




#48
Methyl methacrylate
Concen: 47.432 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.103 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

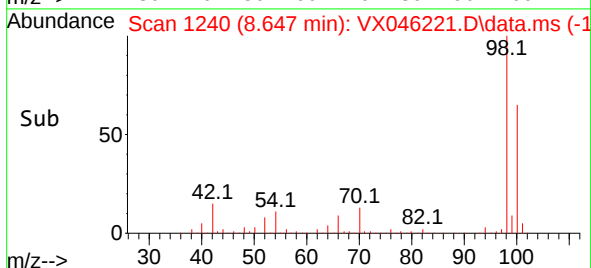
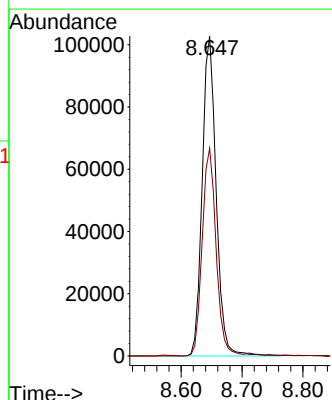
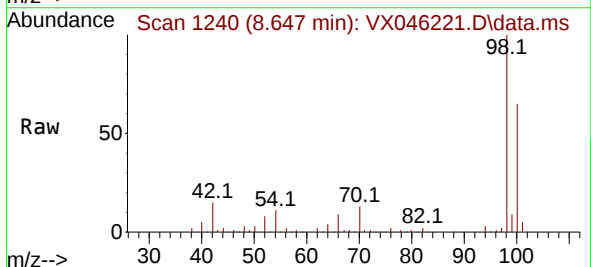
Instrument :
MSVOA_X
ClientSampleId :

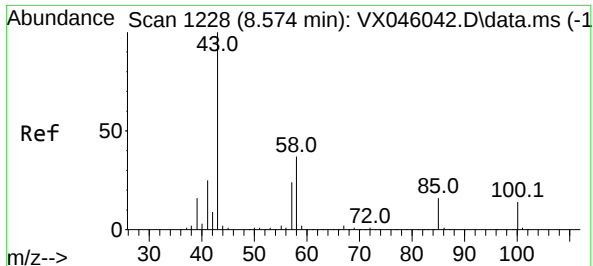
Tgt Ion: 41 Resp: 56083
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 56.7 51.7 77.5



#50
Toluene-d8
Concen: 51.704 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion: 98 Resp: 163601
Ion Ratio Lower Upper
98 100
100 65.2 53.5 80.3

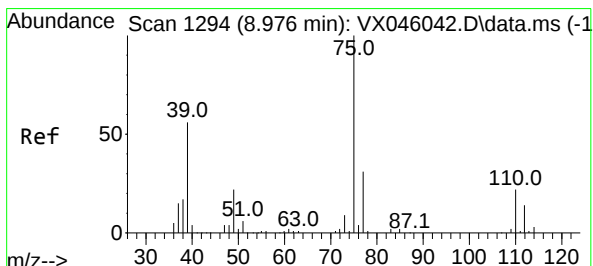
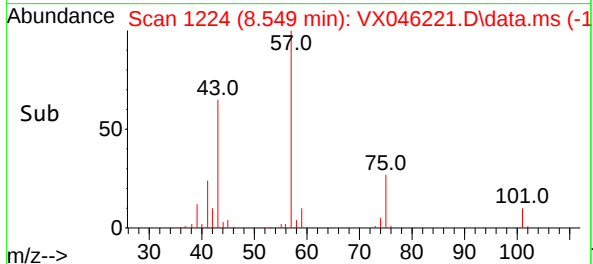
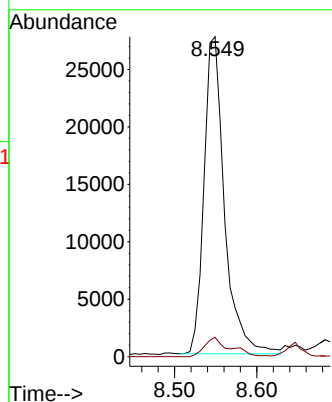
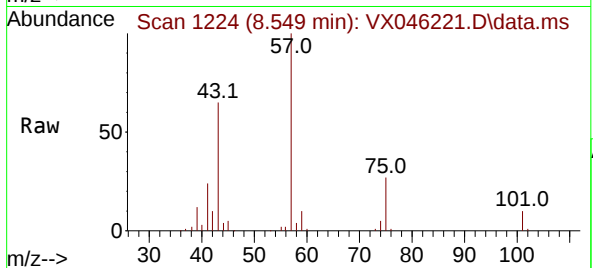




#51
4-Methyl-2-Pentanone
Concen: 31.141 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

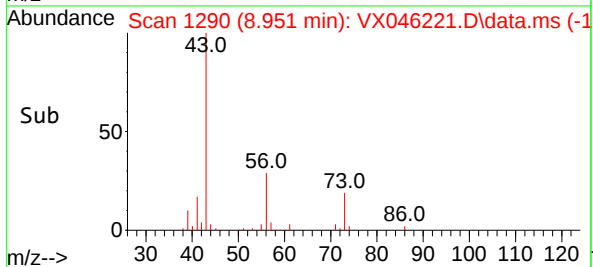
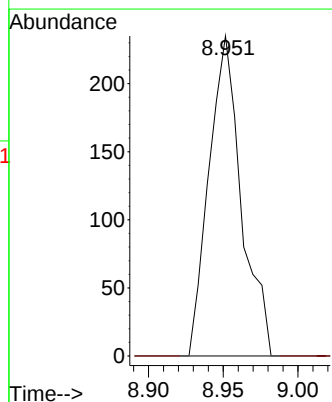
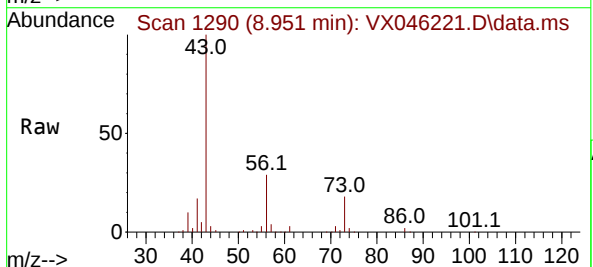
Instrument :
MSVOA_X
ClientSampleId :

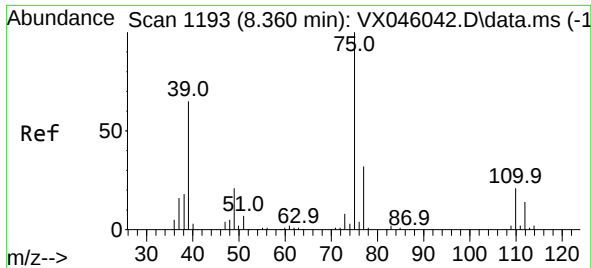
Tgt Ion: 43 Resp: 47857
Ion Ratio Lower Upper
43 100
58 7.6 28.9 43.3#



#53
t-1,3-Dichloropropene
Concen: 0.287 ug/l
RT: 8.951 min Scan# 1290
Delta R.T. -0.025 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion: 75 Resp: 354
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#

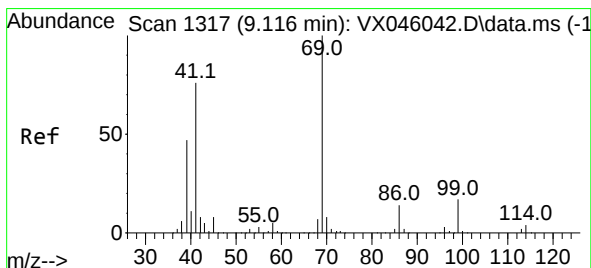
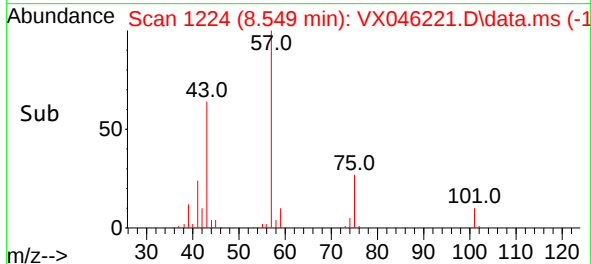
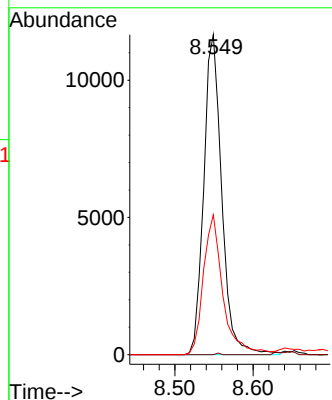
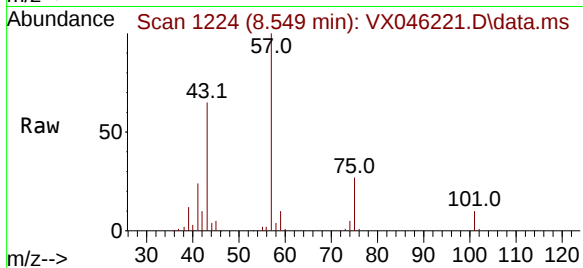




#54
 cis-1,3-Dichloropropene
 Concen: 13.611 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.189 min
 Lab File: VX046221.D
 Acq: 15 May 2025 18:04

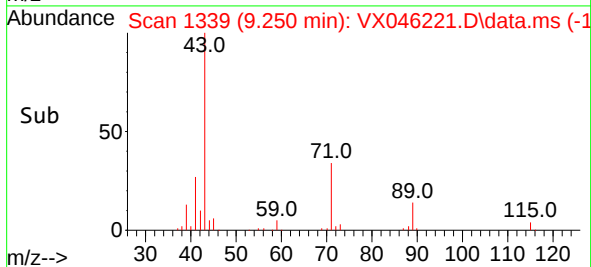
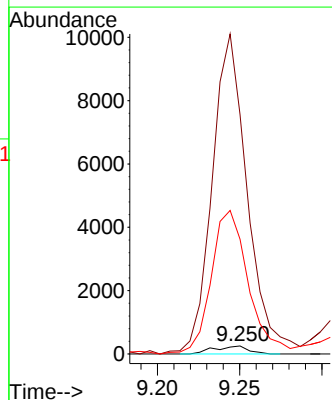
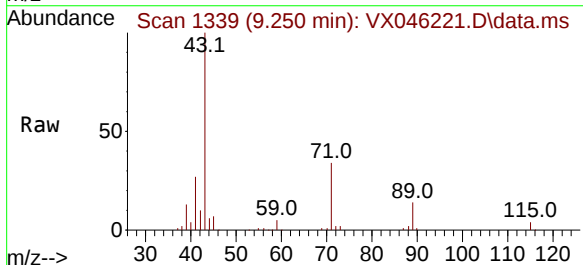
Instrument :
 MSVOA_X
 ClientSampleId :

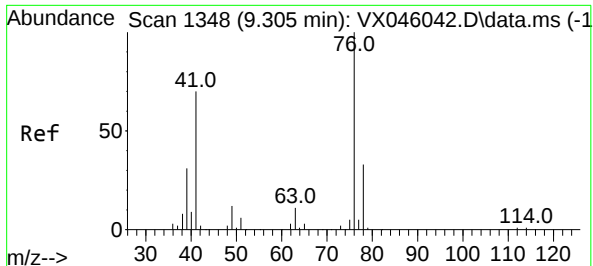
Tgt Ion: 75 Resp: 18583
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 43.7 52.2 78.4#



#56
 Ethyl methacrylate
 Concen: 0.263 ug/l
 RT: 9.250 min Scan# 1339
 Delta R.T. 0.134 min
 Lab File: VX046221.D
 Acq: 15 May 2025 18:04

Tgt Ion: 69 Resp: 364
 Ion Ratio Lower Upper
 69 100
 41 4137.1 60.8 91.2#
 39 1950.0 39.0 58.6#





#57

1,3-Dichloropropane

Concen: 1.185 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX046221.D

Acq: 15 May 2025 18:04

Instrument :

MSVOA_X

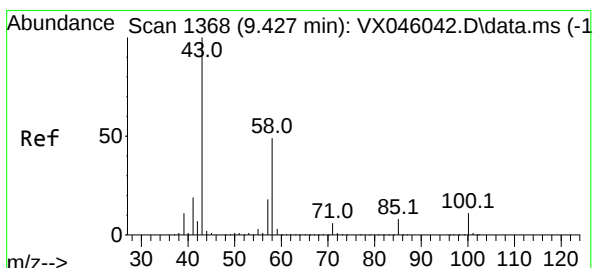
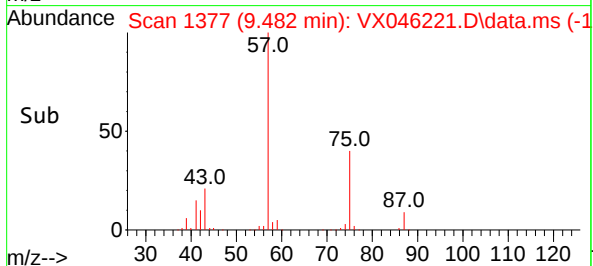
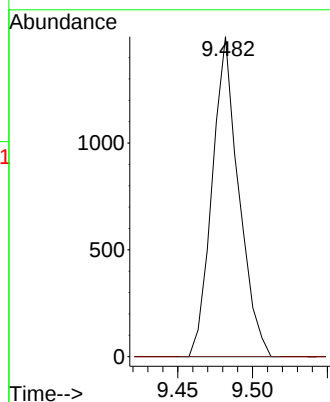
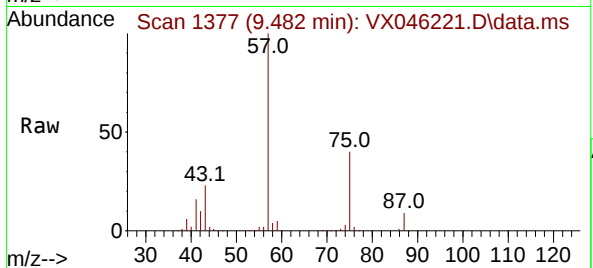
ClientSampleId :

Tgt Ion: 76 Resp: 1851

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 13.466 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX046221.D

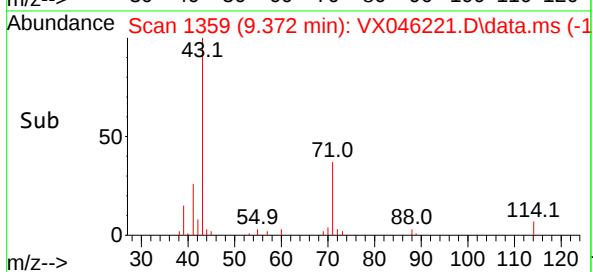
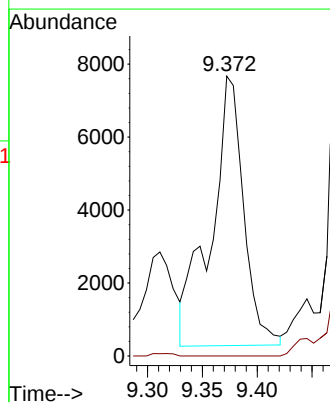
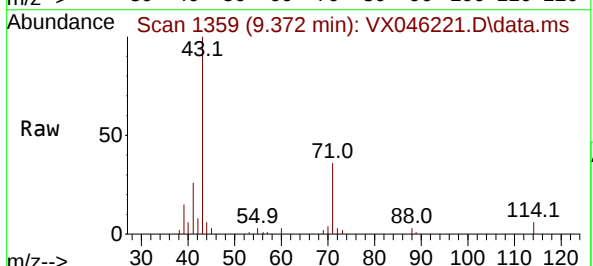
Acq: 15 May 2025 18:04

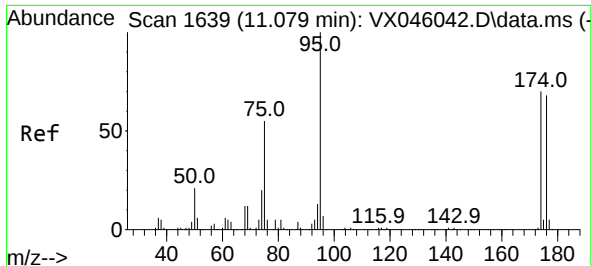
Tgt Ion: 43 Resp: 15310

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

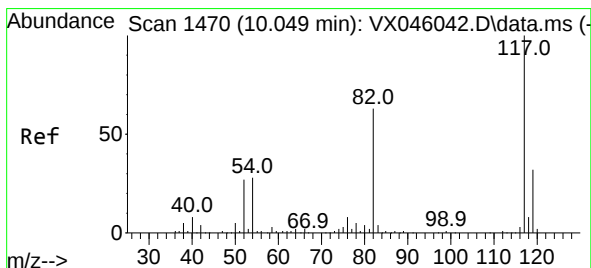
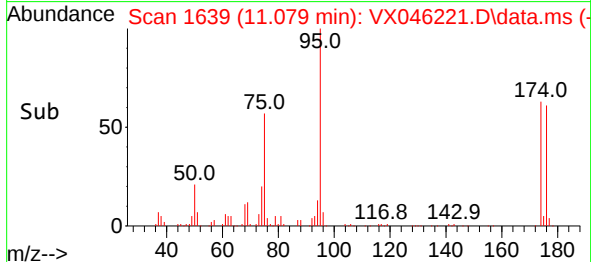
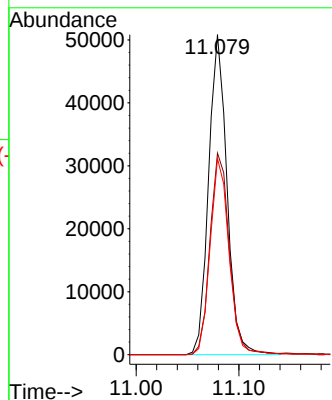
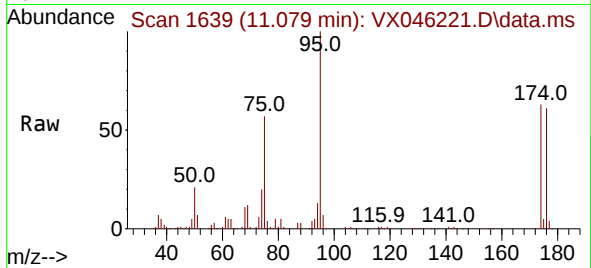




#62
4-Bromofluorobenzene
Concen: 52.062 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

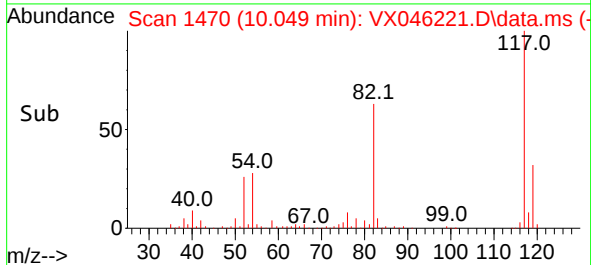
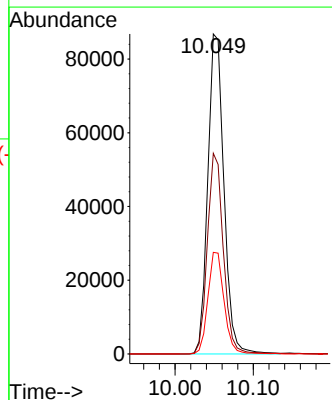
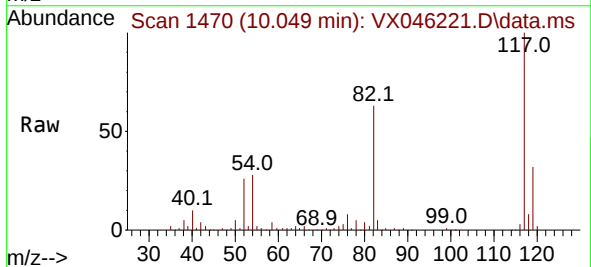
Instrument :
MSVOA_X
ClientSampleId :

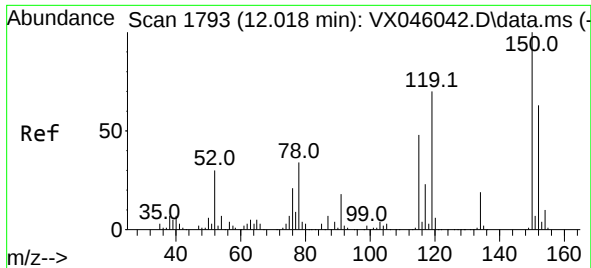
Tgt Ion: 95 Resp: 63189
Ion Ratio Lower Upper
95 100
174 66.8 0.0 135.8
176 63.3 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

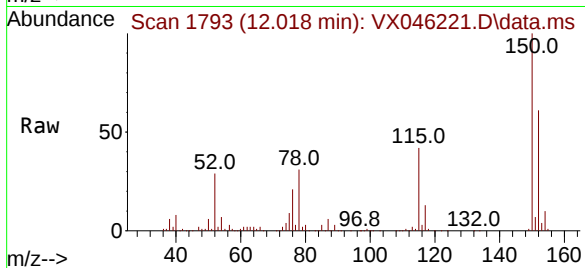
Tgt Ion: 117 Resp: 123968
Ion Ratio Lower Upper
117 100
82 62.7 50.6 76.0
119 31.7 25.8 38.6



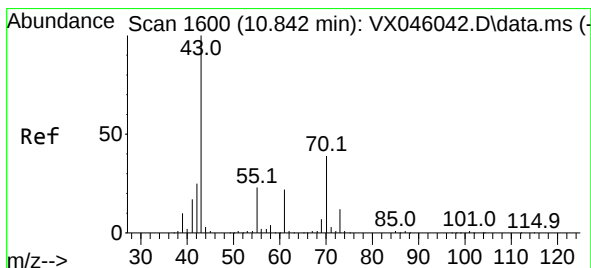
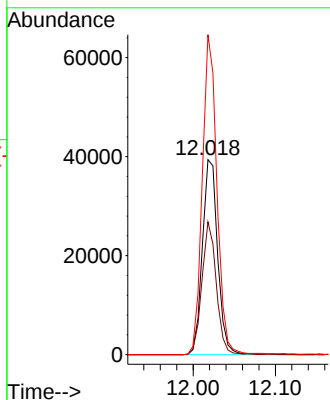
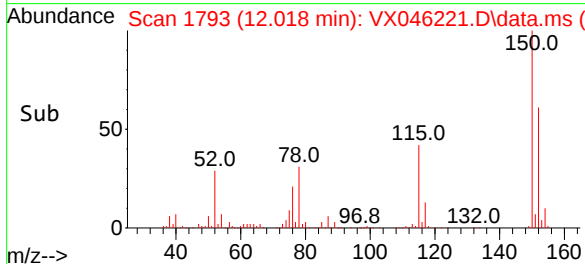


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

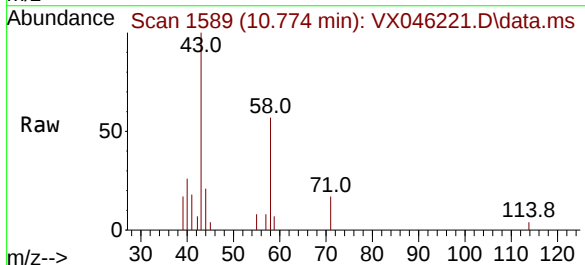
Instrument :
MSVOA_X
ClientSampleId :



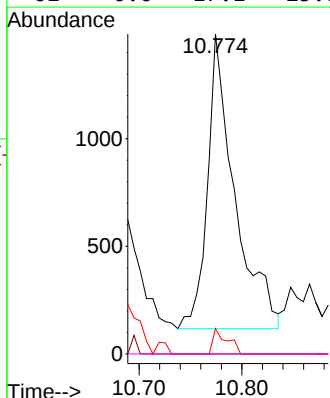
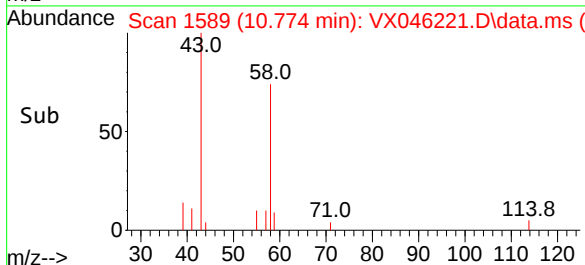
Tgt Ion:152 Resp: 51188
Ion Ratio Lower Upper
152 100
115 63.9 46.9 140.7
150 156.4 0.0 351.0

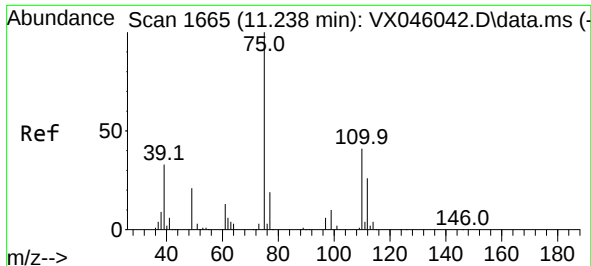


#74
N-ethyl acetate
Concen: 1.282 ug/l
RT: 10.774 min Scan# 1589
Delta R.T. -0.067 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04



Tgt Ion: 43 Resp: 2524
Ion Ratio Lower Upper
43 100
70 0.0 30.9 46.3#
55 4.5 18.7 28.1#
61 0.0 17.1 25.7#

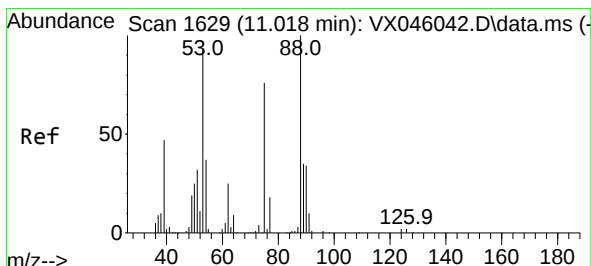
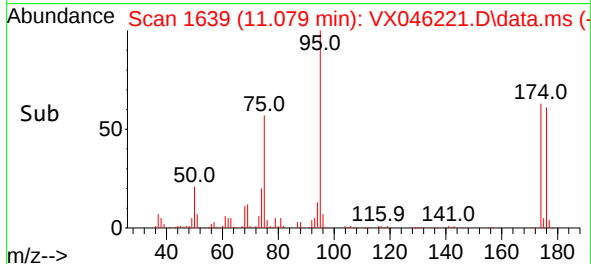
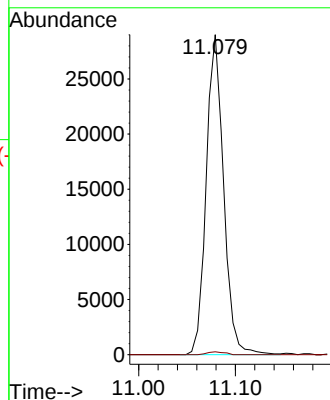
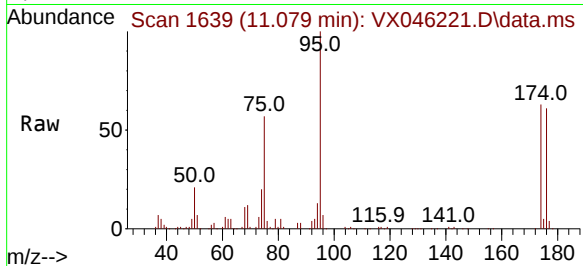




#76
1,2,3-Trichloropropane
Concen: 29.405 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 75 Resp: 36231
Ion Ratio Lower Upper
75 100
77 0.9 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 95.735 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046221.D
Acq: 15 May 2025 18:04

Tgt Ion: 75 Resp: 36231
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#

