

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013025\
 Data File : VX044774.D
 Acq On : 30 Jan 2025 11:37
 Operator : JC/MD
 Sample : Q1212-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 30 12:09:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

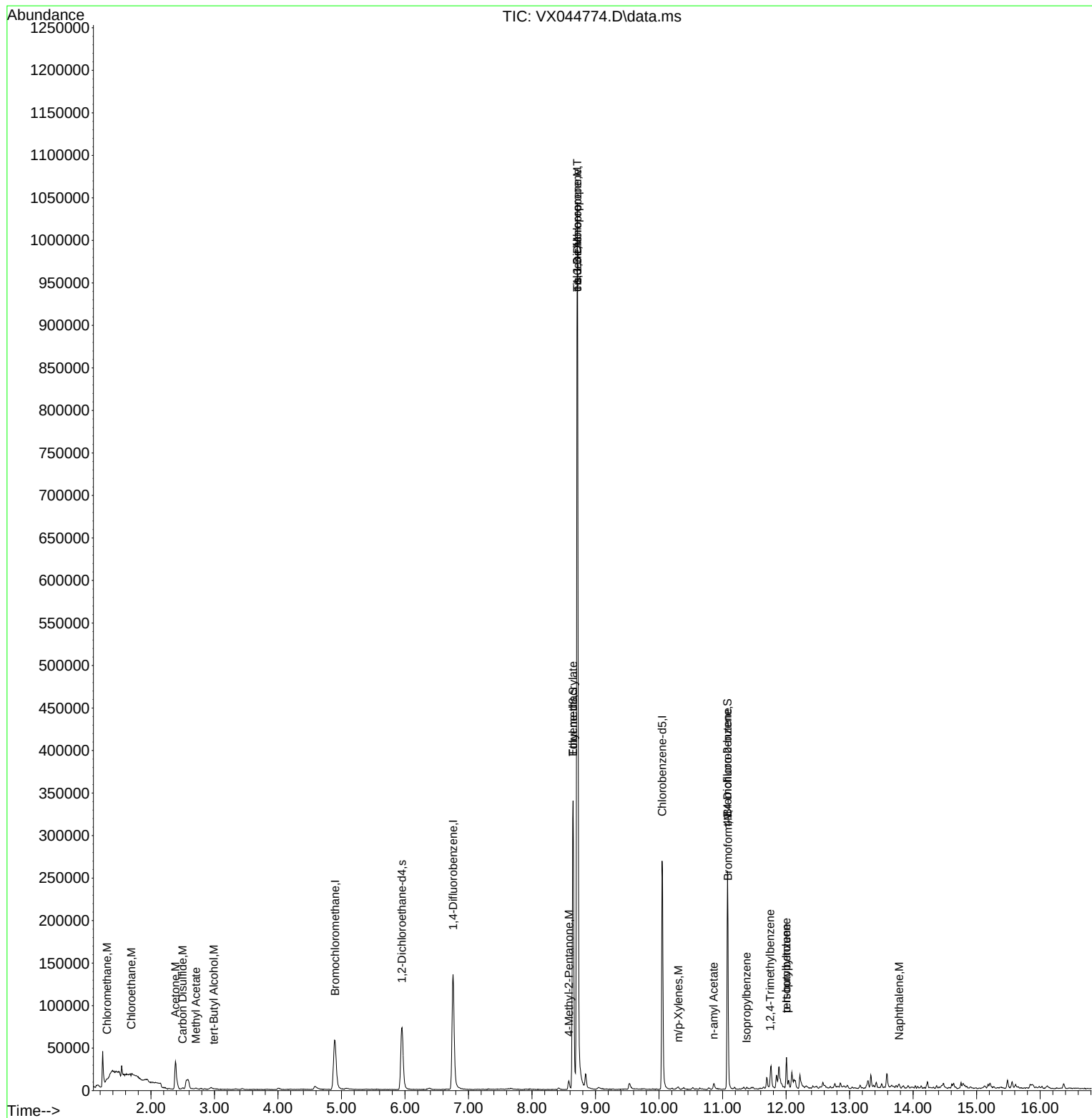
Internal Standards						
1) Bromochloromethane	4.897	128	25775	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	145121	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	129652	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	69149	27.790	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.633%
60) 4-Bromofluorobenzene	11.079	95	69838	27.732	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.433%
63) Toluene-d8	8.647	98	216585	30.714	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.367%
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	530	0.220	ug/l	96
6) Chloroethane	1.691	64	4347	11.623	ug/l #	53
12) Methyl Acetate	2.709	43	1134	0.408	ug/l #	80
15) Acetone	2.386	58	11092	40.814	ug/l	83
16) Carbon Disulfide	2.495	76	2044	0.386	ug/l #	86
23) tert-Butyl Alcohol	2.989	59	307	0.627	ug/l #	100
47) n-amyl Acetate	10.860	43	1241	0.303	ug/l #	1
48) t-1,3-Dichloropropene	8.714	75	4439	1.364	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	4439	1.272	ug/l #	1
51) Ethyl methacrylate	8.647	69	708	0.212	ug/l	85
56) Bromoform	11.085	173	473	0.310	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	6672	2.441	ug/l	98
62) Toluene	8.714	91	707342	82.855	ug/l	98
67) m/p-Xylenes	10.305	106	781	0.228	ug/l	81
70) Isopropylbenzene	11.378	105	1900	0.220	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	33826	29.258	ug/l #	13
79) tert-butylbenzene	12.006	119	15767	2.187	ug/l	65
80) 1,2,4-Trimethylbenzene	11.750	105	4082	0.577	ug/l	81
82) p-Isopropyltoluene	12.006	119	15767	2.226	ug/l	100
91) Naphthalene	13.780	128	3341	0.402	ug/l	95

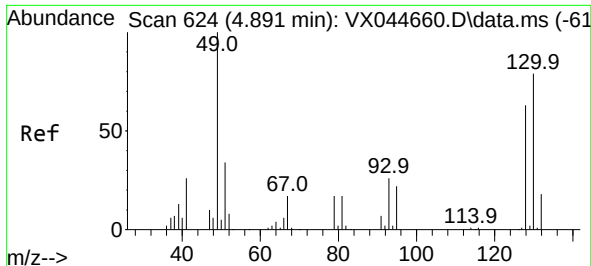
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013025\
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MSVOA_X
ClientSampleId :

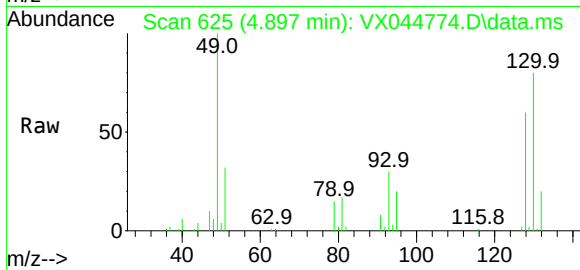
Quant Time: Jan 30 12:09:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
Response via : Initial Calibration



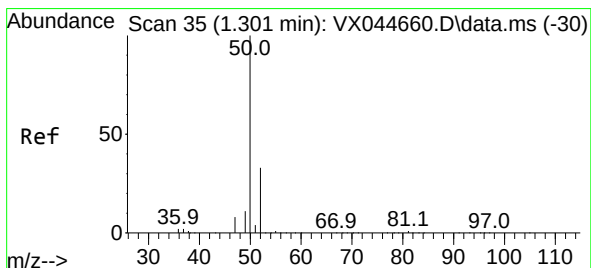
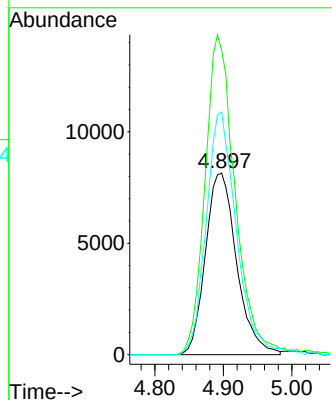
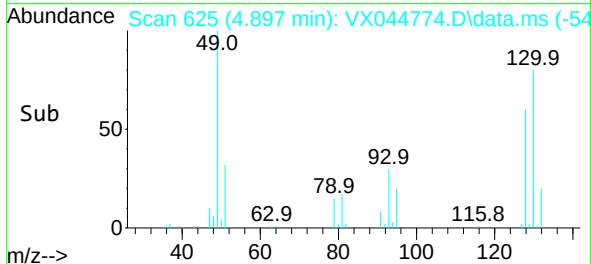


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

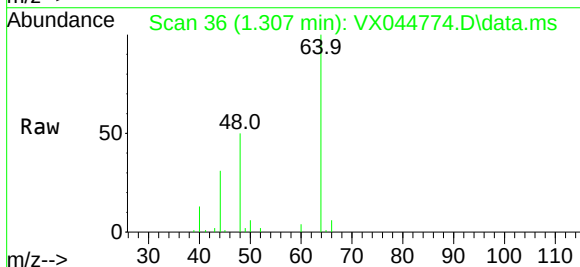
Instrument :
MSVOA_X
ClientSampleId :



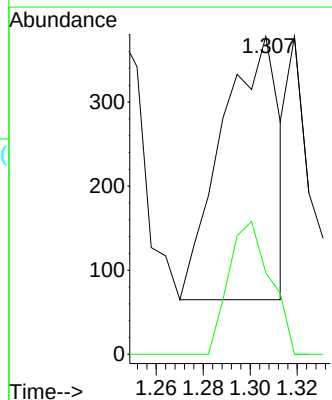
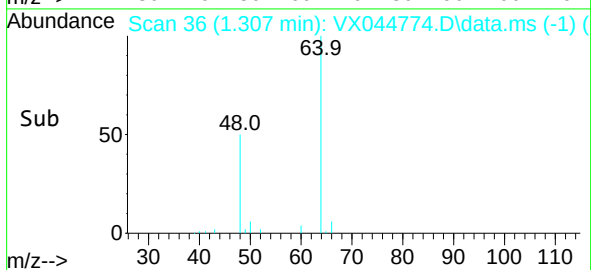
Tgt Ion:128 Resp: 25775
Ion Ratio Lower Upper
128 100
49 169.1 0.0 411.5
130 129.2 0.0 324.3

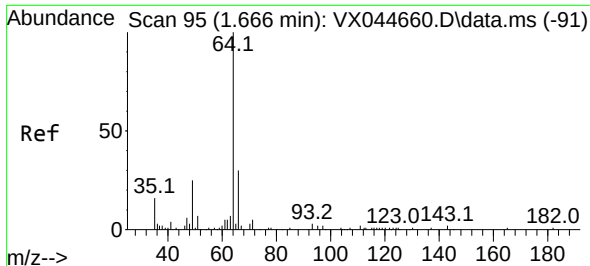


#3
Chloromethane
Concen: 0.220 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37



Tgt Ion: 50 Resp: 530
Ion Ratio Lower Upper
50 100
52 31.0 26.5 39.7

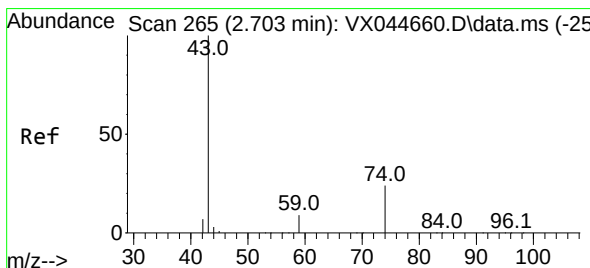
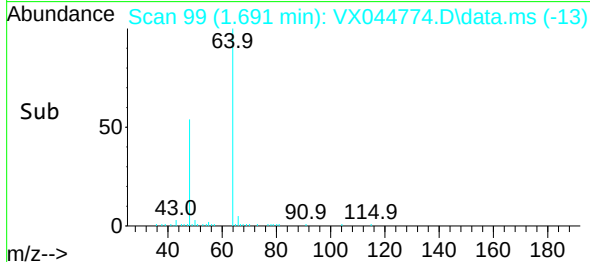
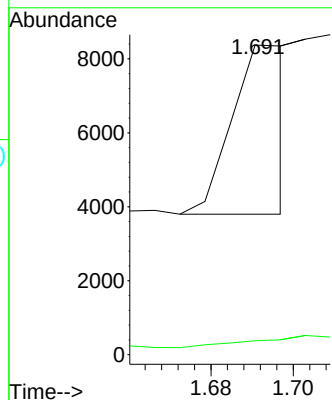
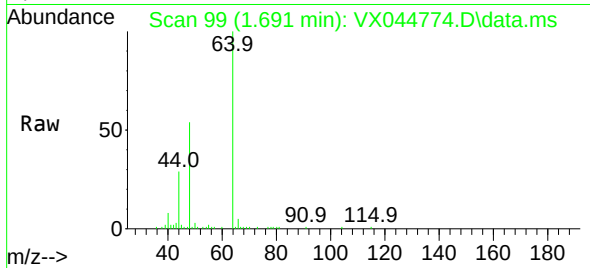




#6
Chloroethane
Concen: 11.623 ug/l
RT: 1.691 min Scan# 91
Delta R.T. 0.024 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

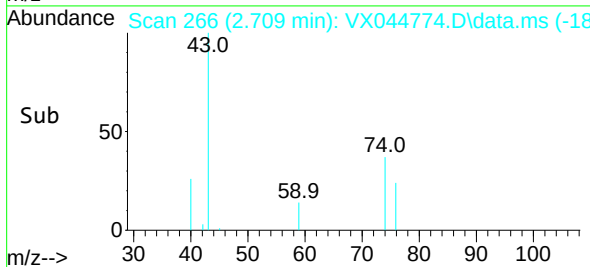
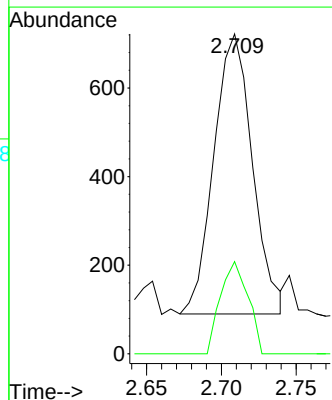
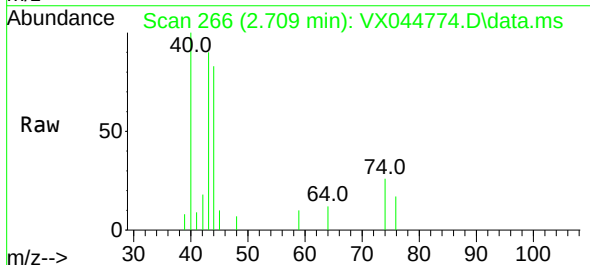
Instrument :
MSVOA_X
ClientSampleId :

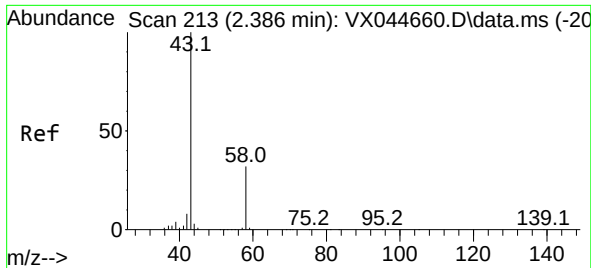
Tgt Ion: 64 Resp: 4347
Ion Ratio Lower Upper
64 100
66 4.1 23.8 35.6#



#12
Methyl Acetate
Concen: 0.408 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion: 43 Resp: 1134
Ion Ratio Lower Upper
43 100
74 34.3 19.4 29.2#

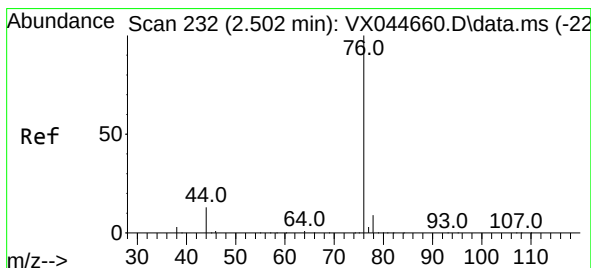
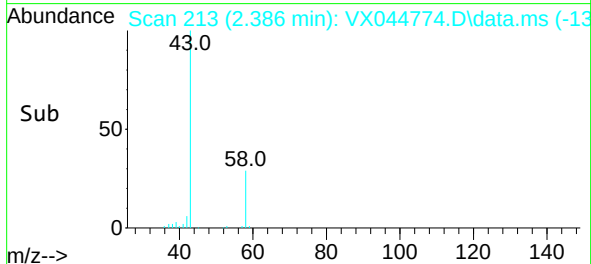
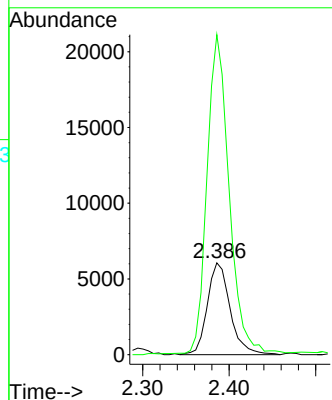
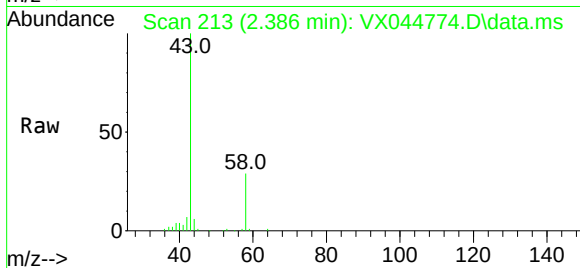




#15
Acetone
Concen: 40.814 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

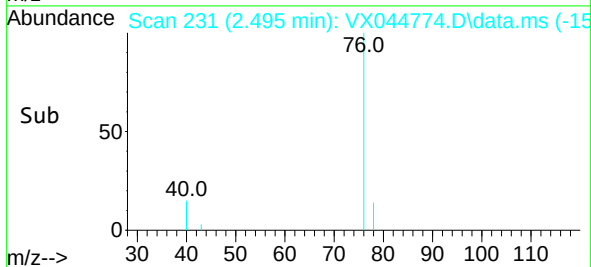
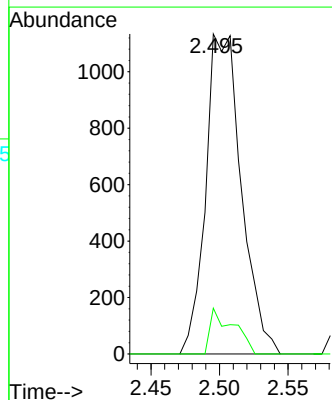
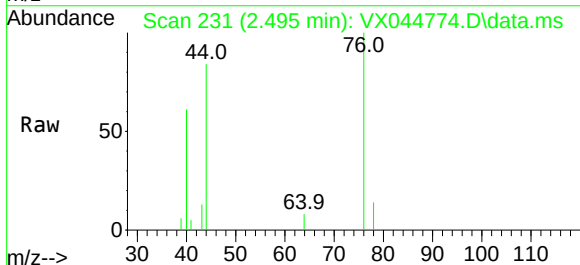
Instrument :
MSVOA_X
ClientSampleId :

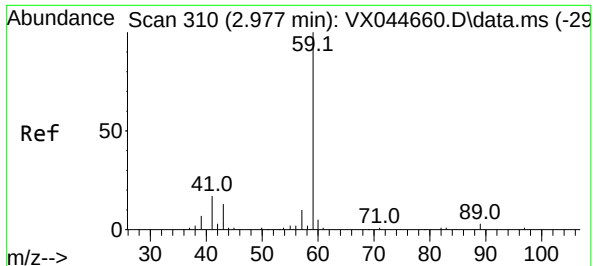
Tgt Ion: 58 Resp: 11092
Ion Ratio Lower Upper
58 100
43 347.0 251.0 376.4



#16
Carbon Disulfide
Concen: 0.386 ug/l
RT: 2.495 min Scan# 231
Delta R.T. -0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion: 76 Resp: 2044
Ion Ratio Lower Upper
76 100
78 14.3 7.3 10.9#

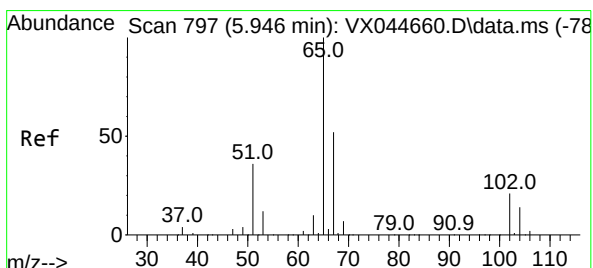
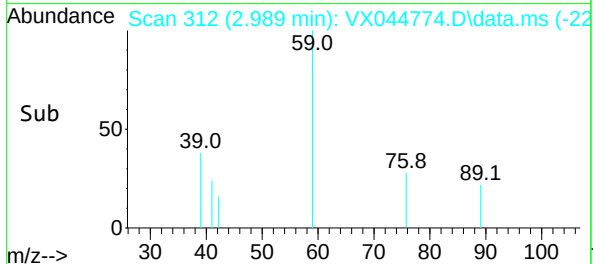
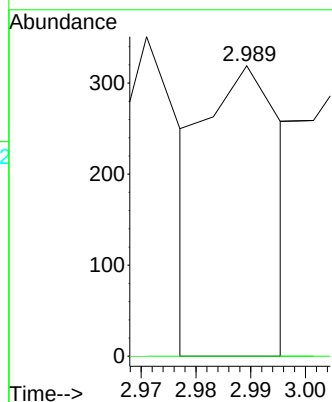
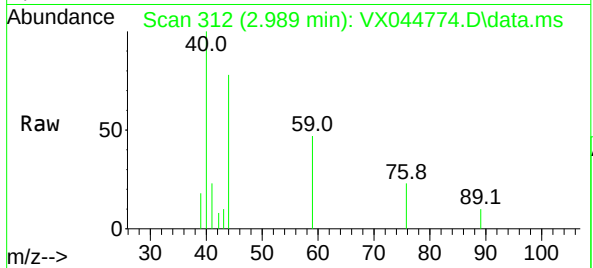




#23
tert-Butyl Alcohol
Concen: 0.627 ug/l
RT: 2.989 min Scan# 311
Delta R.T. 0.012 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

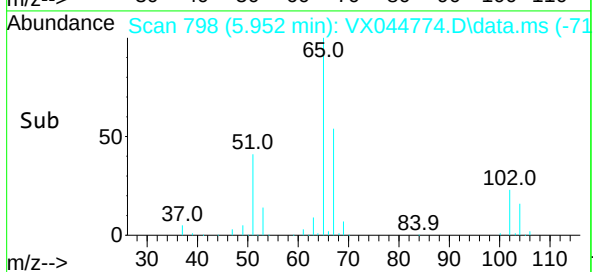
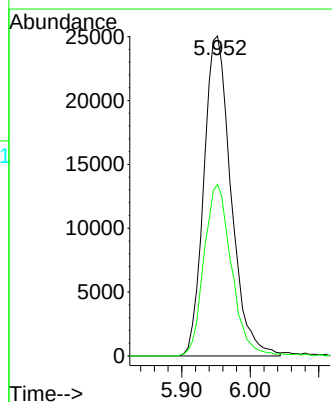
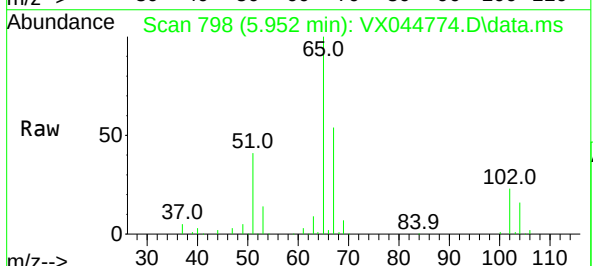
Instrument :
MSVOA_X
ClientSampleId :

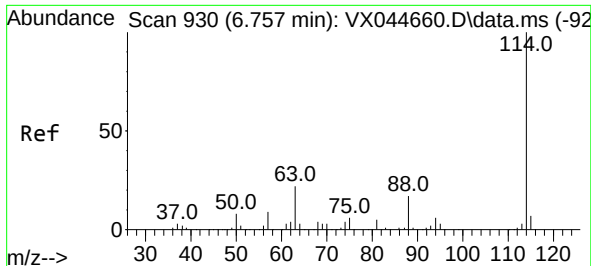
Tgt Ion: 59 Resp: 307
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 27.790 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion: 65 Resp: 69149
Ion Ratio Lower Upper
65 100
67 53.9 41.4 62.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044774.D

Acq: 30 Jan 2025 11:37

Instrument :

MSVOA_X

ClientSampleId :

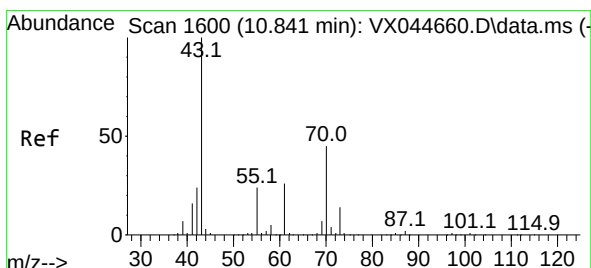
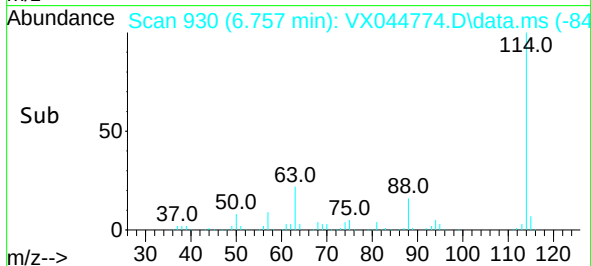
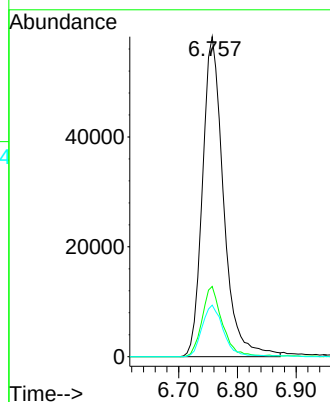
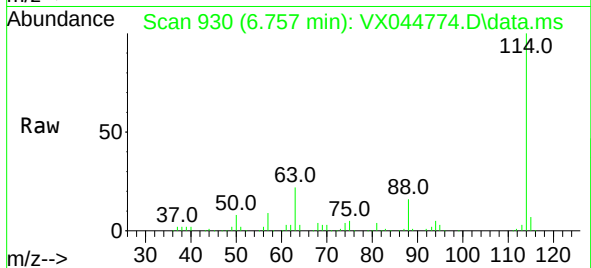
Tgt Ion:114 Resp: 145121

Ion Ratio Lower Upper

114 100

63 21.0 16.6 24.8

88 16.0 13.4 20.2



#47

n-amy1 Acetate

Concen: 0.303 ug/l

RT: 10.860 min Scan# 1603

Delta R.T. 0.018 min

Lab File: VX044774.D

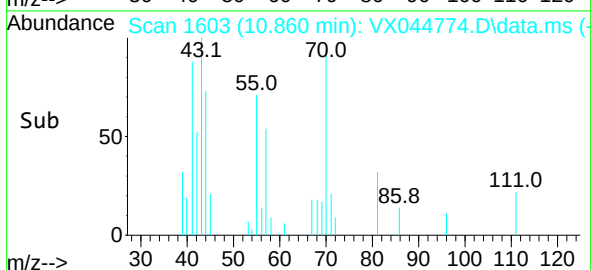
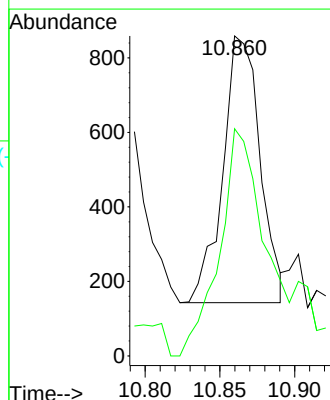
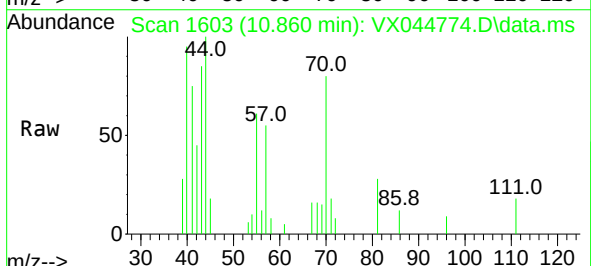
Acq: 30 Jan 2025 11:37

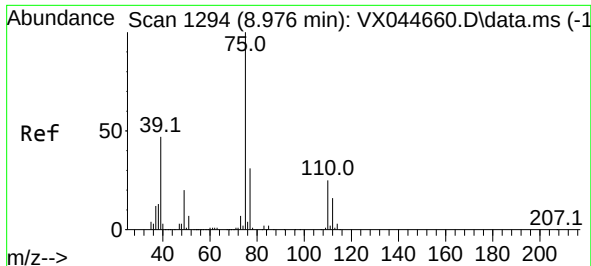
Tgt Ion: 43 Resp: 1241

Ion Ratio Lower Upper

43 100

55 102.4 18.9 28.3#





#48

t-1,3-Dichloropropene

Concen: 1.364 ug/l

RT: 8.714 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX044774.D

Acq: 30 Jan 2025 11:37

Instrument :

MSVOA_X

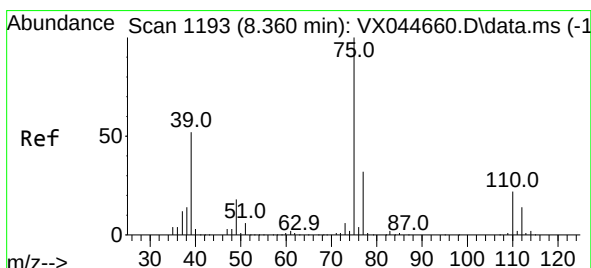
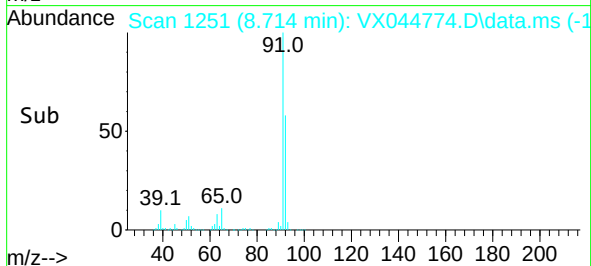
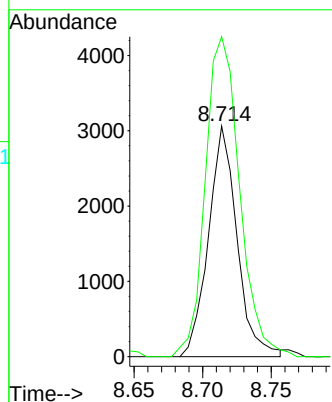
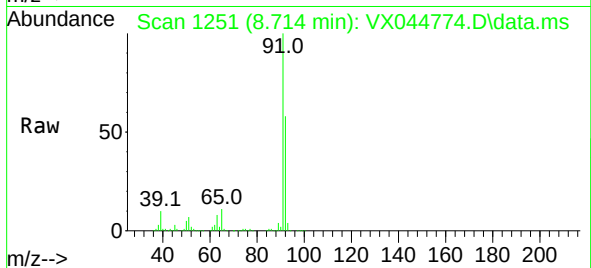
ClientSampleId :

Tgt Ion: 75 Resp: 4439

Ion Ratio Lower Upper

75 100

77 135.9 24.8 37.2#



#49

cis-1,3-Dichloropropene

Concen: 1.272 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.354 min

Lab File: VX044774.D

Acq: 30 Jan 2025 11:37

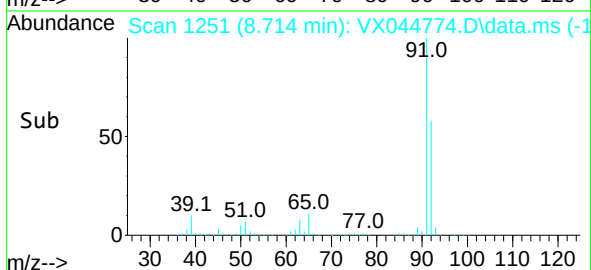
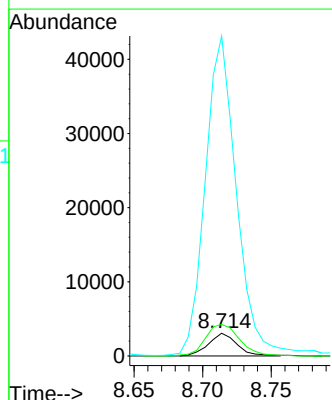
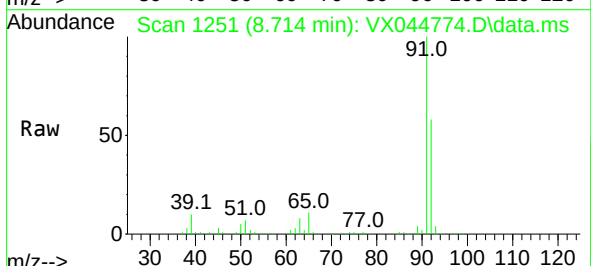
Tgt Ion: 75 Resp: 4439

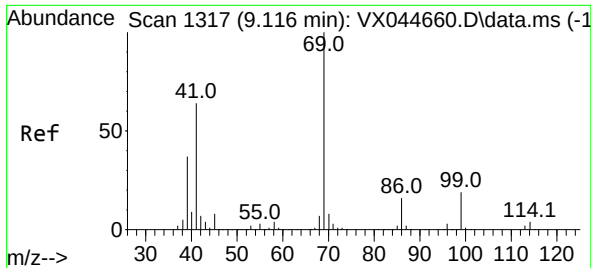
Ion Ratio Lower Upper

75 100

77 135.9 25.4 38.0#

39 1397.5 41.4 62.0#

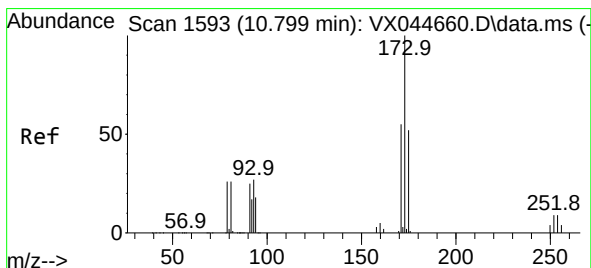
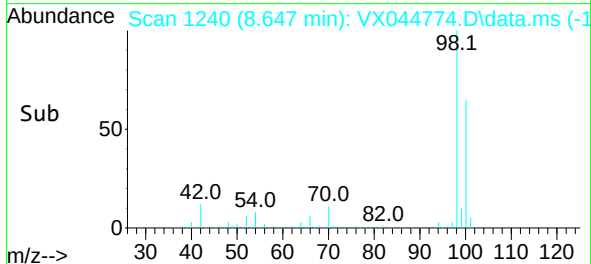
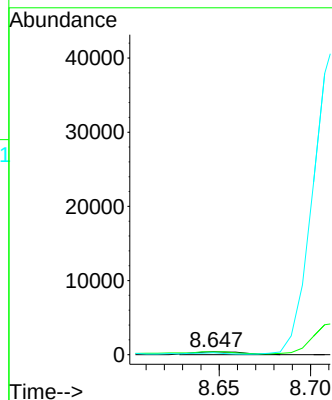
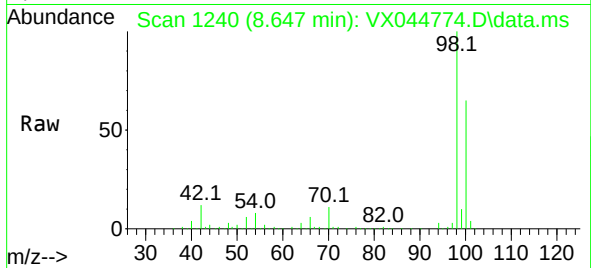




#51
Ethyl methacrylate
Concen: 0.212 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.469 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

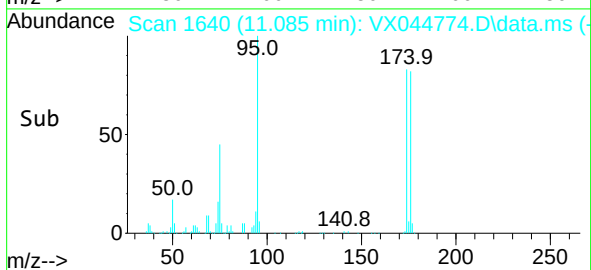
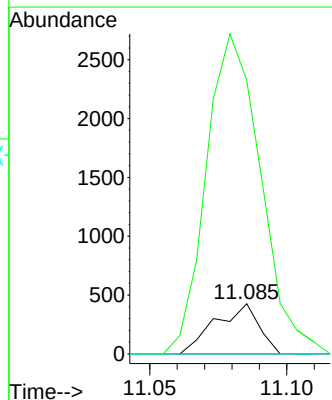
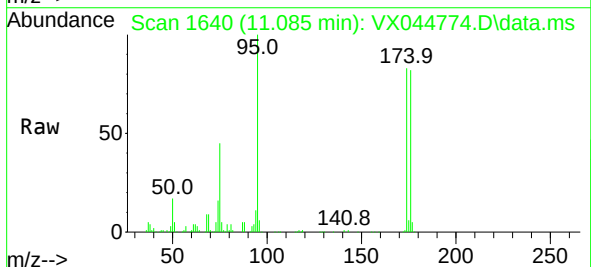
Instrument :
MSVOA_X
ClientSampleId :

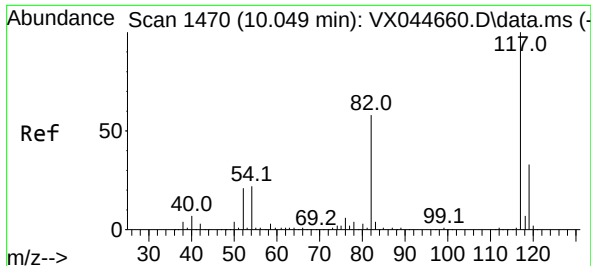
Tgt Ion: 69 Resp: 708
Ion Ratio Lower Upper
69 100
41 49.7 32.0 96.0
39 42.6 18.6 55.6



#56
Bromoform
Concen: 0.310 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.287 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

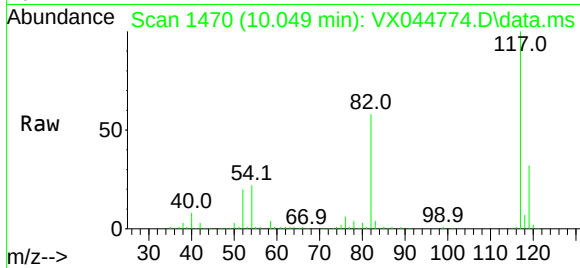
Tgt Ion: 173 Resp: 473
Ion Ratio Lower Upper
173 100
175 796.2 39.0 58.6#
254 0.0 6.5 9.7#



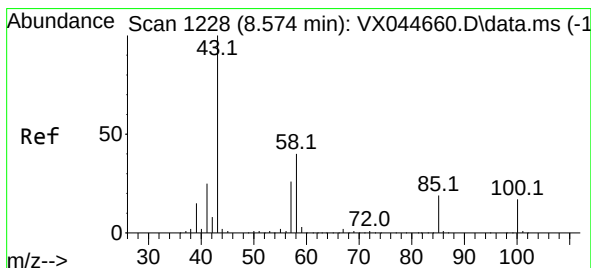
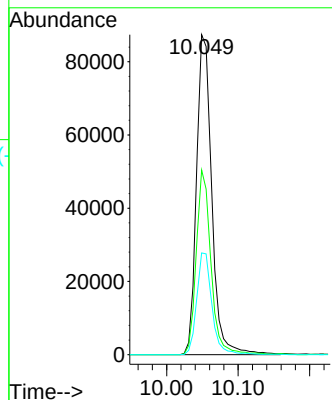
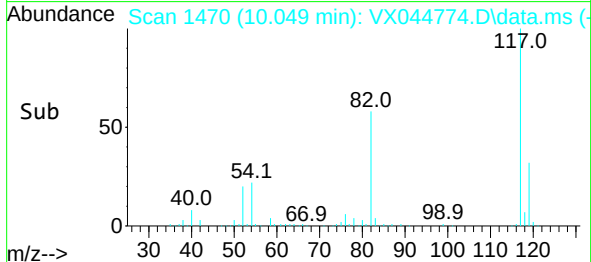


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

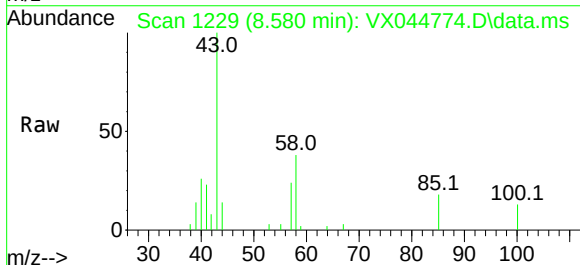
Instrument :
MSVOA_X
ClientSampleId :



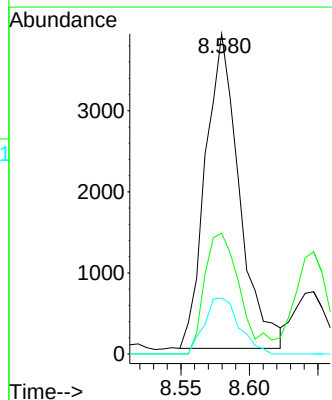
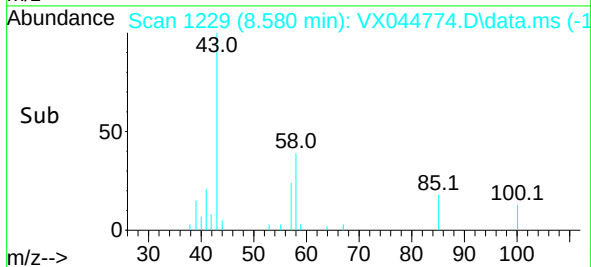
Tgt Ion:117 Resp: 129652
Ion Ratio Lower Upper
117 100
82 55.1 45.8 68.6
119 31.3 25.8 38.6

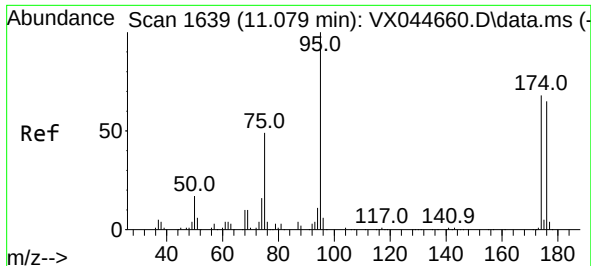


#58
4-Methyl-2-Pentanone
Concen: 2.441 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37



Tgt Ion: 43 Resp: 6672
Ion Ratio Lower Upper
43 100
58 38.0 31.7 47.5
85 18.1 15.0 22.6

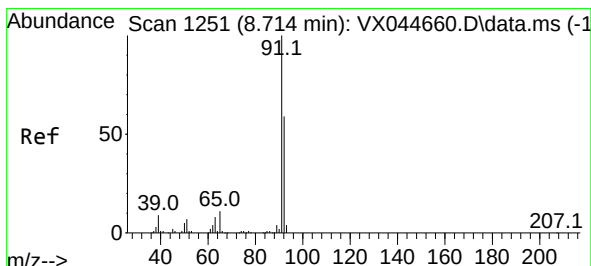
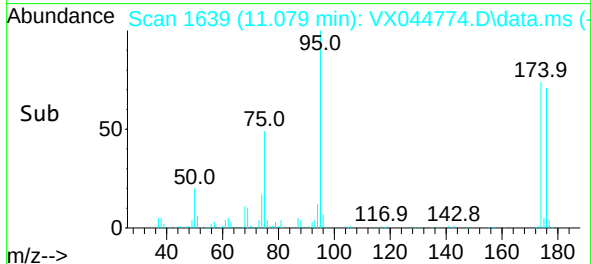
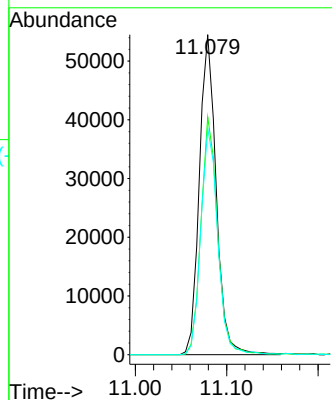
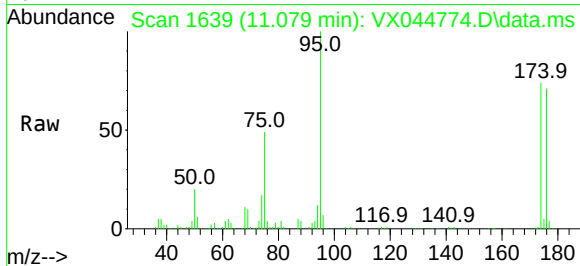




#60
4-Bromofluorobenzene
Concen: 27.732 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

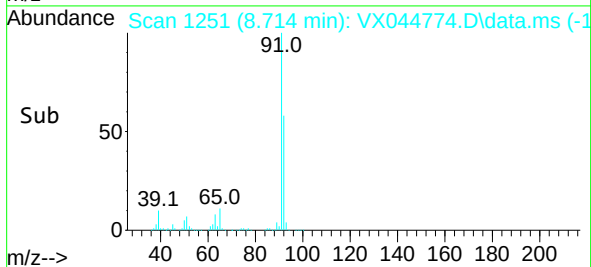
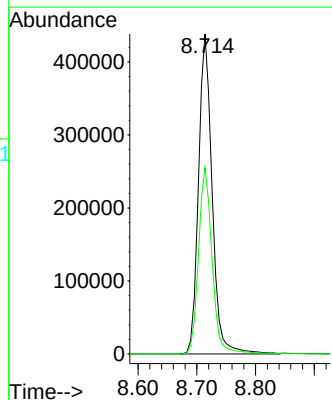
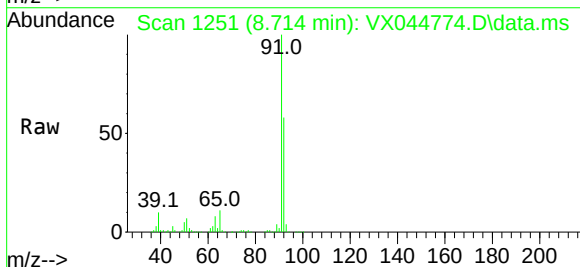
Instrument :
MSVOA_X
ClientSampleId :

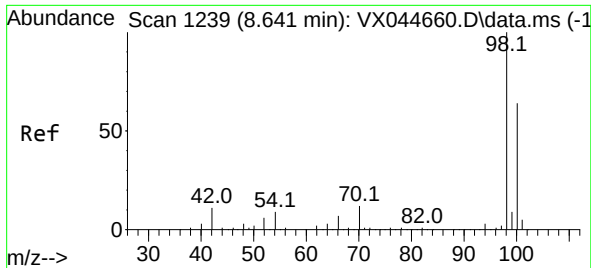
Tgt Ion: 95 Resp: 69838
Ion Ratio Lower Upper
95 100
174 73.4 54.6 81.8
176 70.9 52.8 79.2



#62
Toluene
Concen: 82.855 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion: 91 Resp: 707342
Ion Ratio Lower Upper
91 100
92 57.9 47.3 70.9

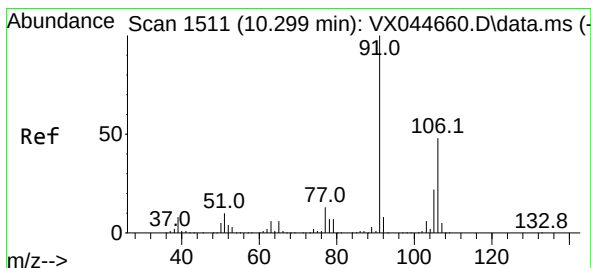
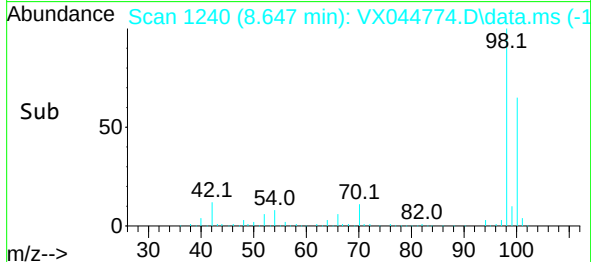
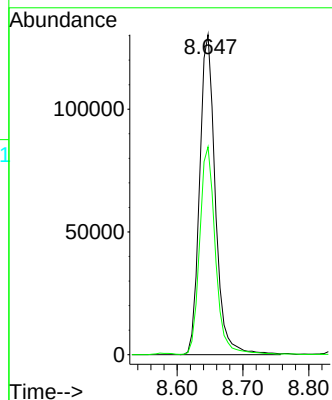
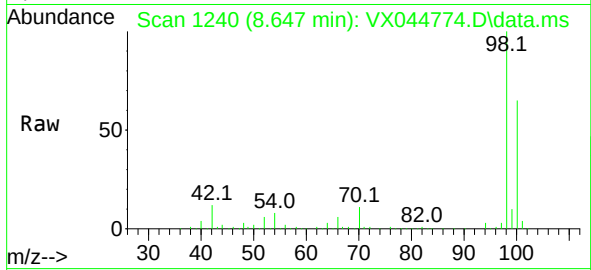




#63
Toluene-d8
Concen: 30.714 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

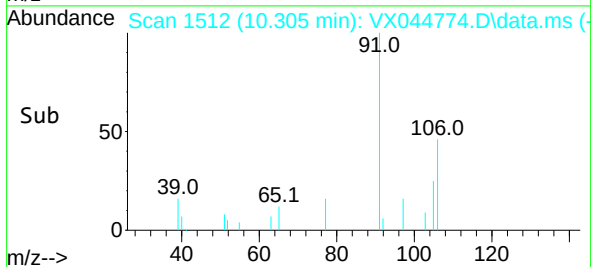
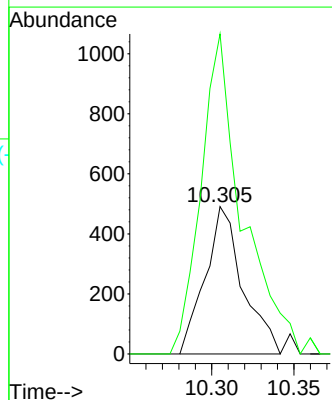
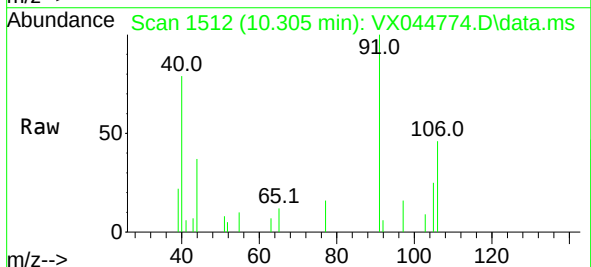
Instrument :
MSVOA_X
ClientSampleId :

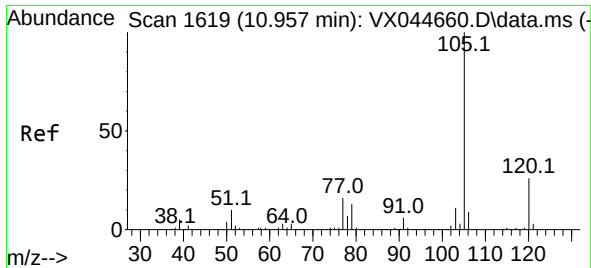
Tgt Ion: 98 Resp: 216585
Ion Ratio Lower Upper
98 100
100 65.1 53.6 80.4



#67
m/p-Xylenes
Concen: 0.228 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion: 106 Resp: 781
Ion Ratio Lower Upper
106 100
91 237.9 166.8 250.2

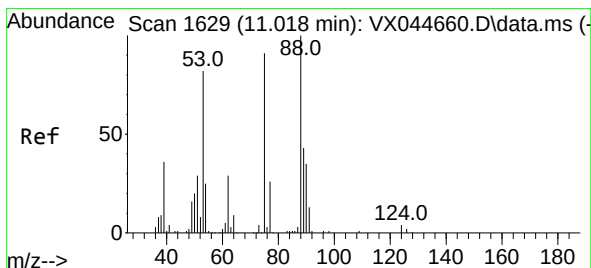
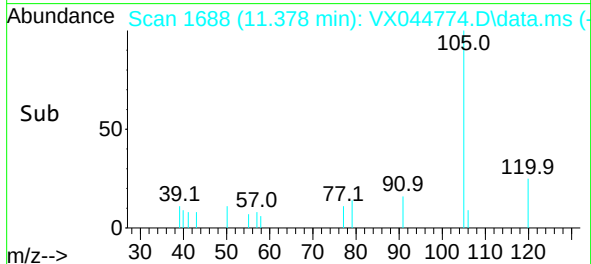
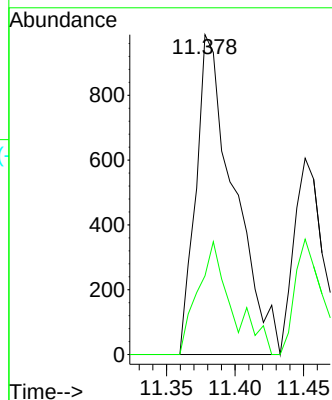
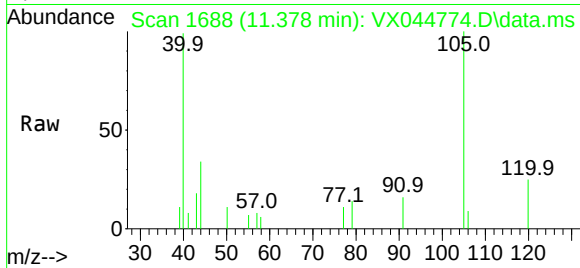




#70
Isopropylbenzene
Concen: 0.220 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.421 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

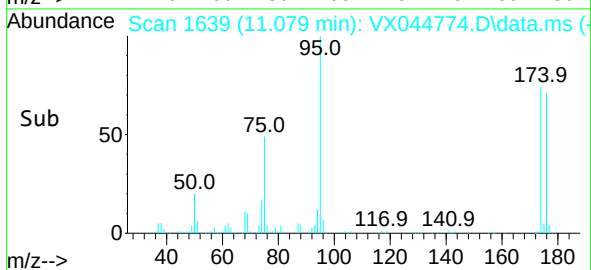
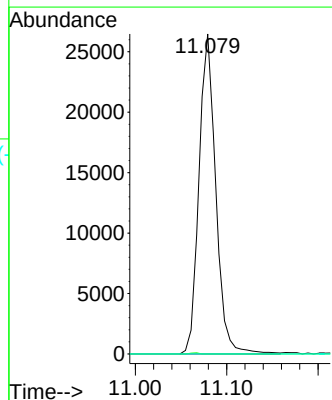
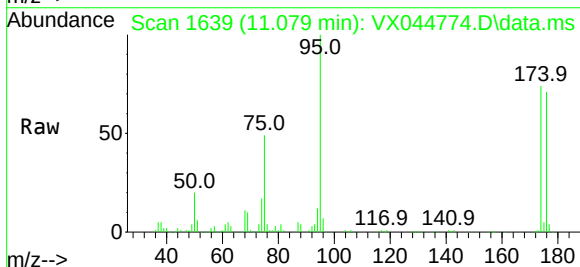
Instrument :
MSVOA_X
ClientSampleId :

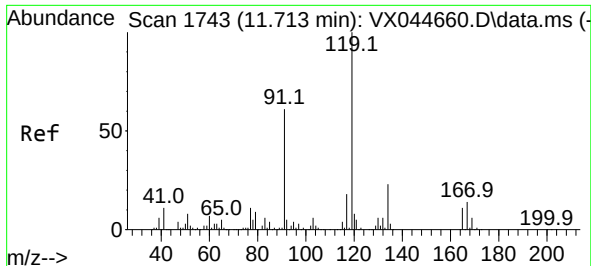
Tgt Ion:105 Resp: 1900
Ion Ratio Lower Upper
105 100
120 26.2 18.6 34.6



#77
t-1,4-Dichloro-2-butene
Concen: 29.258 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion: 75 Resp: 33826
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 23.8 71.2#

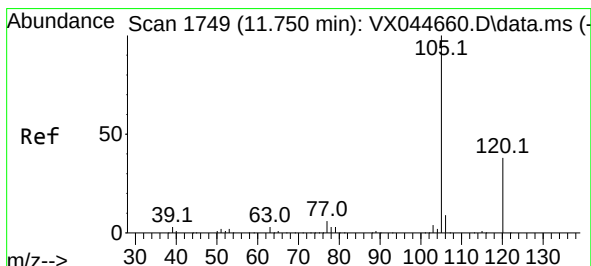
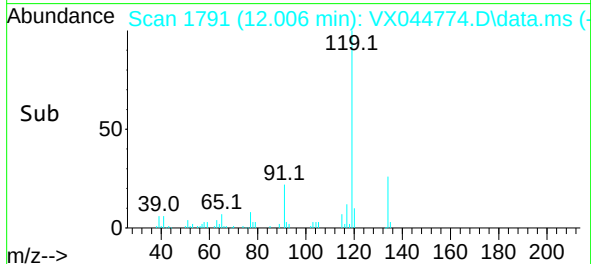
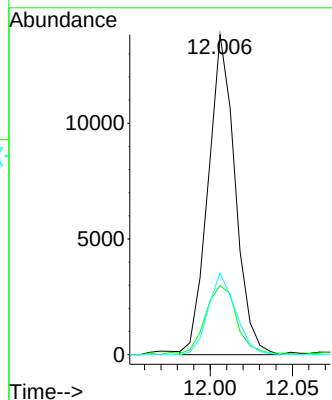
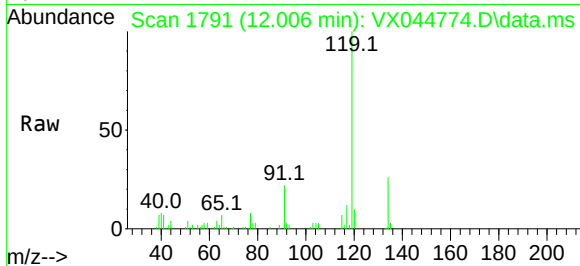




#79
tert-butylbenzene
Concen: 2.187 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

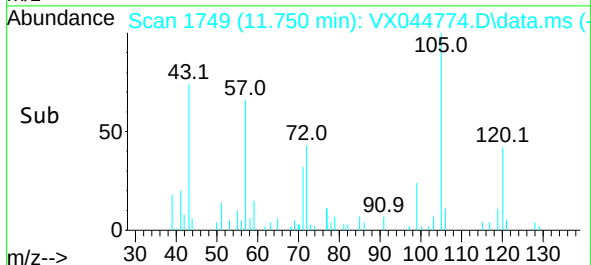
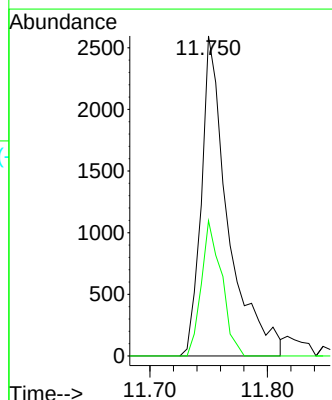
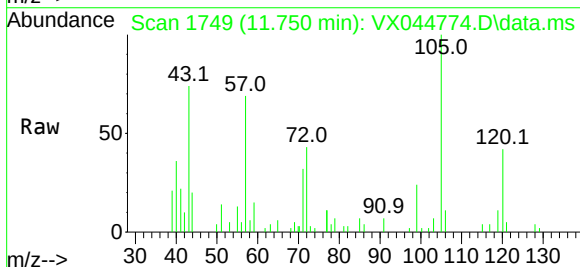
Instrument :
MSVOA_X
ClientSampleId :

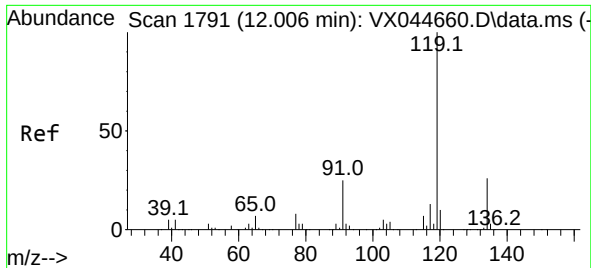
Tgt Ion:119 Resp: 15767
Ion Ratio Lower Upper
119 100
91 24.9 0.0 119.0
134 25.8 0.0 44.8



#80
1,2,4-Trimethylbenzene
Concen: 0.577 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion:105 Resp: 4082
Ion Ratio Lower Upper
105 100
120 32.1 0.0 88.4

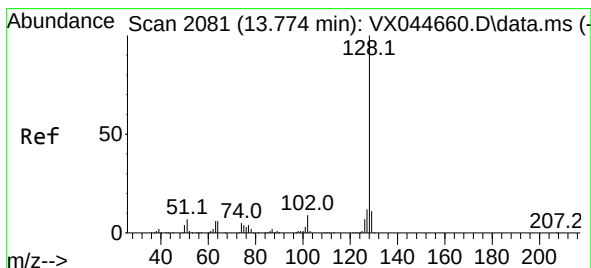
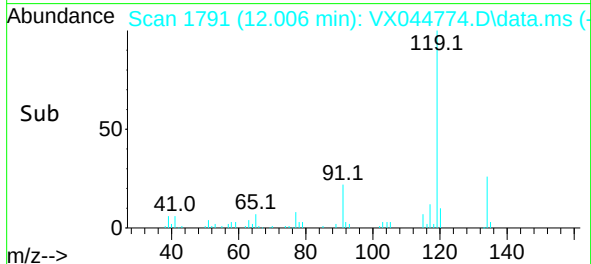
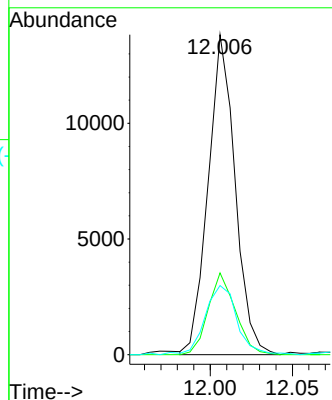
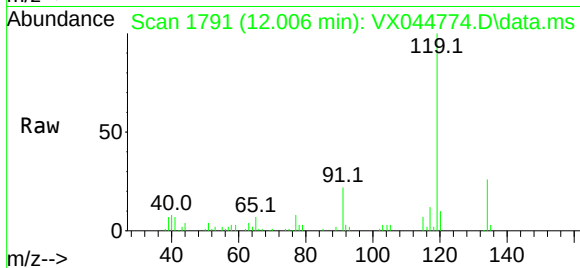




#82
p-Isopropyltoluene
Concen: 2.226 ug/l
RT: 12.006 min Scan# 119
Delta R.T. 0.000 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:119 Resp: 15767
Ion Ratio Lower Upper
119 100
134 25.8 0.0 52.2
91 24.9 0.0 50.2



#91
Naphthalene
Concen: 0.402 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX044774.D
Acq: 30 Jan 2025 11:37

Tgt Ion:128 Resp: 3341
Ion Ratio Lower Upper
128 100
127 11.4 10.2 15.4
129 9.1 9.0 13.6

