

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012325\
 Data File : VX044704.D
 Acq On : 23 Jan 2025 11:16
 Operator : JC/MD
 Sample : Q1145-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 24 03:15:47 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)

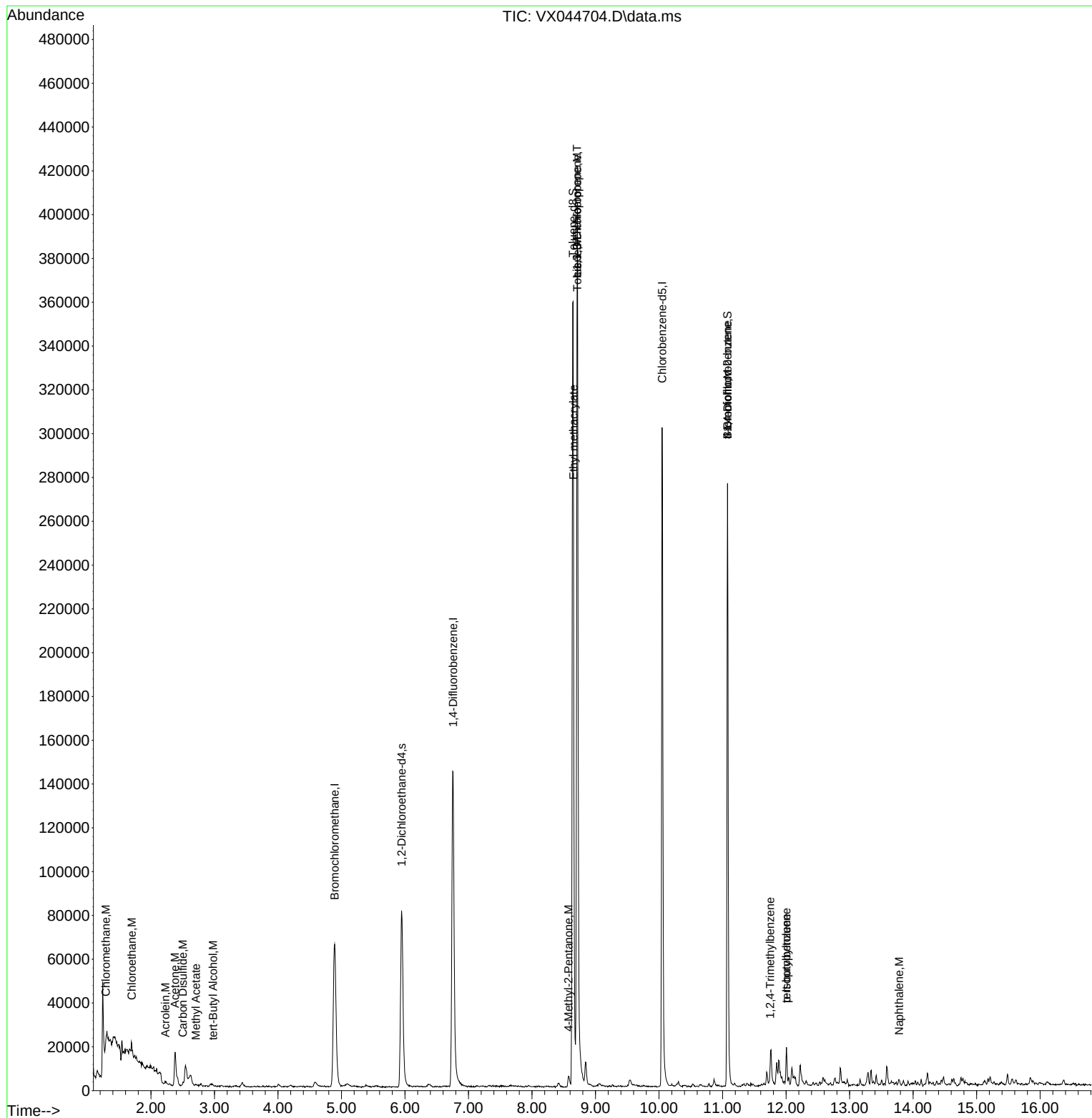
Internal Standards						
1) Bromochloromethane	4.891	128	28355	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	158559	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	144308	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	76052	27.783	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.600%
60) 4-Bromofluorobenzene	11.079	95	80994	28.896	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.333%
63) Toluene-d8	8.647	98	237595	30.271	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.900%
Target Compounds						
					Qvalue	
3) Chloromethane	1.288	50	1385	0.522	ug/l #	76
6) Chloroethane	1.697	64	4535	11.023	ug/l #	55
12) Methyl Acetate	2.709	43	638	0.209	ug/l	93
13) Acrolein	2.227	56	191	0.565	ug/l	92
15) Acetone	2.380	58	6106	20.423	ug/l	90
16) Carbon Disulfide	2.502	76	1857	0.319	ug/l #	92
23) tert-Butyl Alcohol	2.977	59	165	0.306	ug/l #	100
48) t-1,3-Dichloropropene	8.708	75	1719	0.484	ug/l #	1
49) cis-1,3-Dichloropropene	8.708	75	1719	0.451	ug/l #	1
51) Ethyl methacrylate	8.653	69	876	0.240	ug/l	77
56) Bromoform	11.079	173	484	0.291	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	4245	1.396	ug/l	97
62) Toluene	8.714	91	275592	29.003	ug/l	98
77) t-1,4-Dichloro-2-butene	11.079	75	39107	30.390	ug/l #	13
79) tert-butylbenzene	12.006	119	7569	0.943	ug/l	66
80) 1,2,4-Trimethylbenzene	11.750	105	2555	0.324	ug/l	95
82) p-Isopropyltoluene	12.006	119	7569	0.960	ug/l	98
91) Naphthalene	13.780	128	2077	0.225	ug/l	99

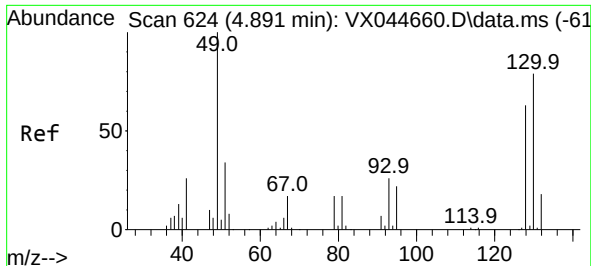
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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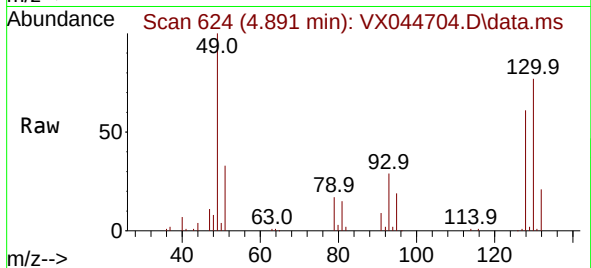
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
Response via : Initial Calibration



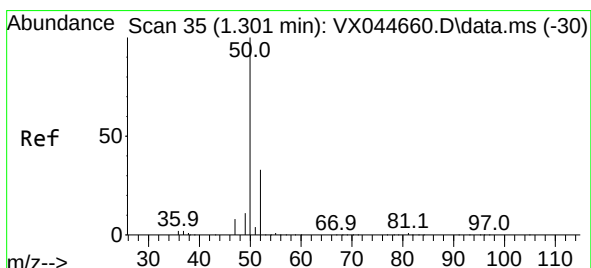
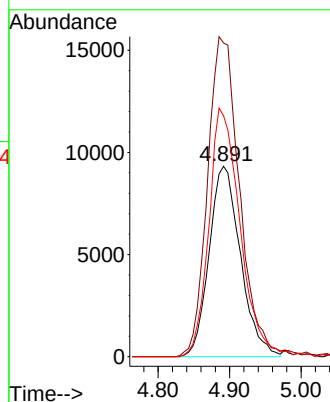
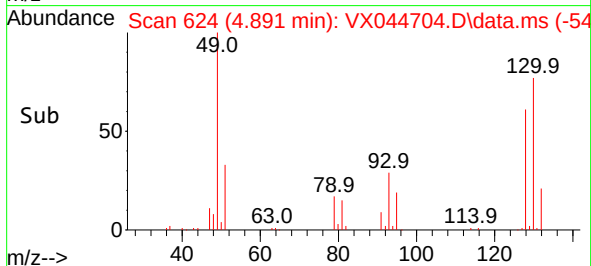


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :

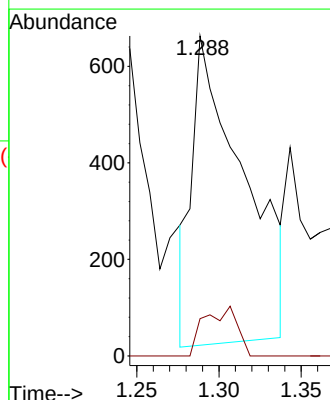
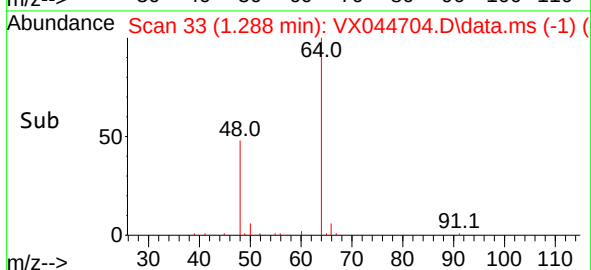
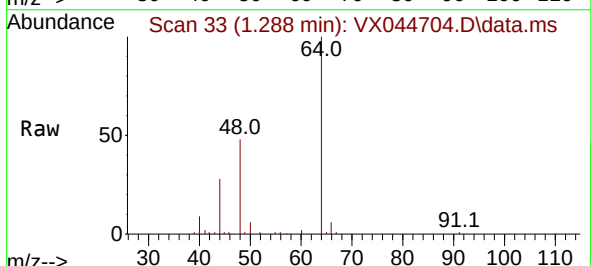


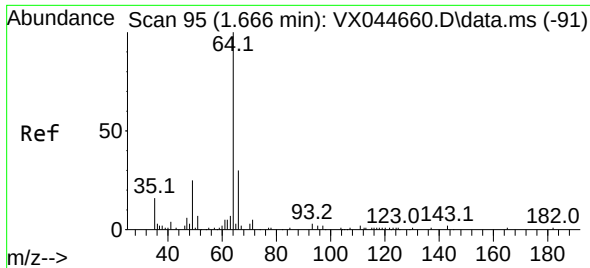
Tgt Ion:128 Resp: 28355
Ion Ratio Lower Upper
128 100
49 171.1 0.0 411.5
130 129.1 0.0 324.3



#3
Chloromethane
Concen: 0.522 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.012 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Tgt Ion: 50 Resp: 1385
Ion Ratio Lower Upper
50 100
52 19.6 26.5 39.7#

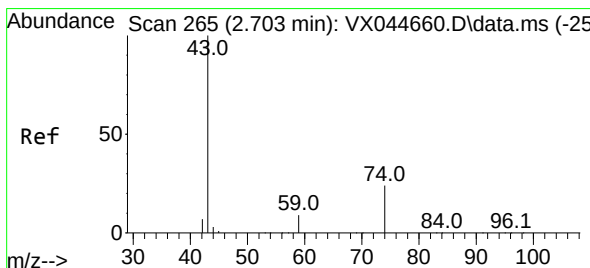
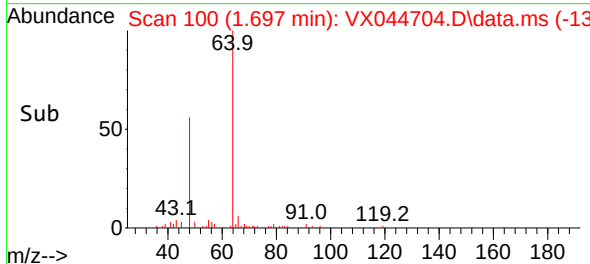
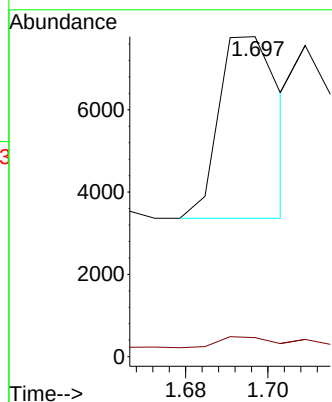
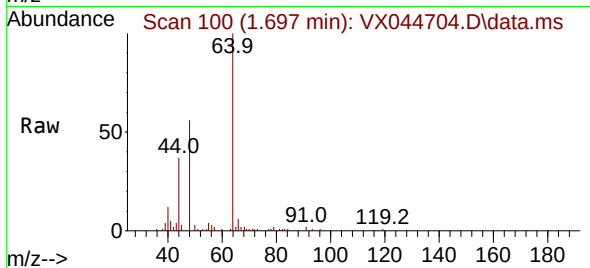




#6
 Chloroethane
 Concen: 11.023 ug/l
 RT: 1.697 min Scan# 100
 Delta R.T. 0.031 min
 Lab File: VX044704.D
 Acq: 23 Jan 2025 11:16

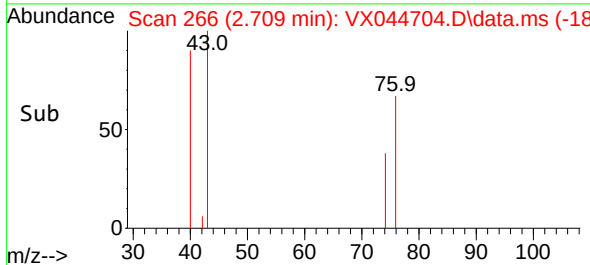
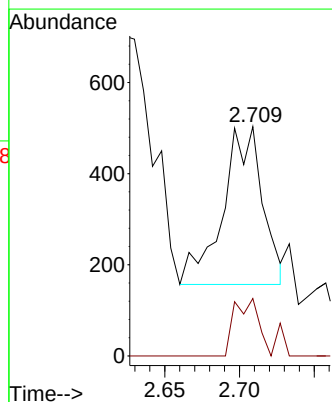
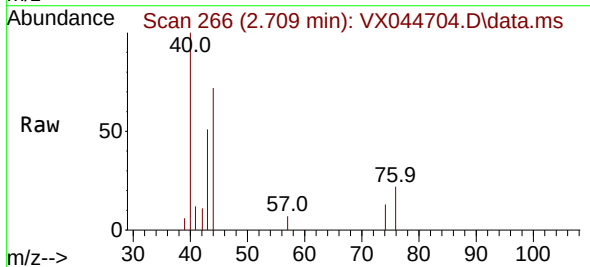
Instrument :
 MSVOA_X
 ClientSampleId :

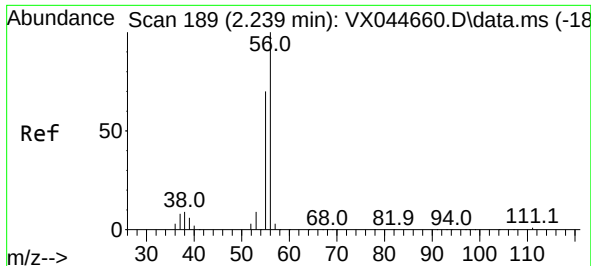
Tgt Ion: 64 Resp: 4535
 Ion Ratio Lower Upper
 64 100
 66 5.6 23.8 35.6#



#12
 Methyl Acetate
 Concen: 0.209 ug/l
 RT: 2.709 min Scan# 266
 Delta R.T. 0.006 min
 Lab File: VX044704.D
 Acq: 23 Jan 2025 11:16

Tgt Ion: 43 Resp: 638
 Ion Ratio Lower Upper
 43 100
 74 27.9 19.4 29.2

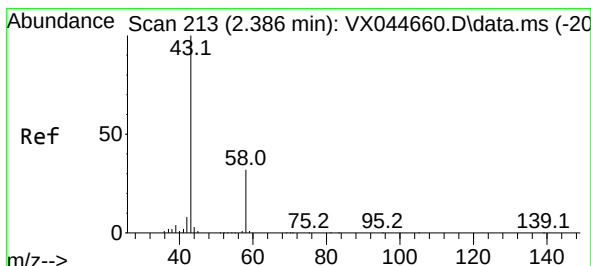
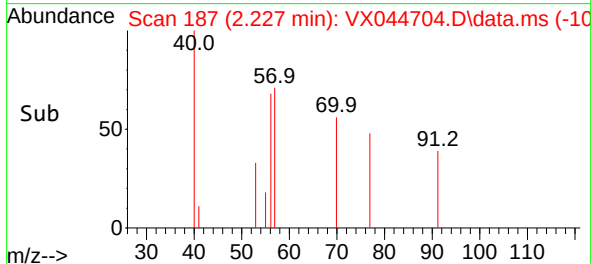
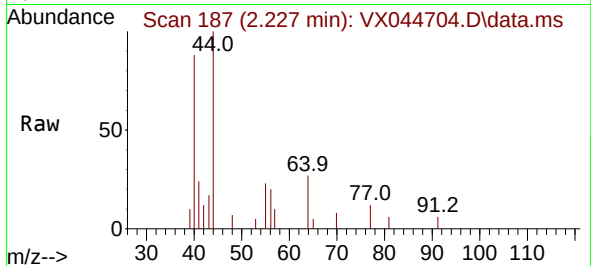




#13
Acrolein
Concen: 0.565 ug/l
RT: 2.227 min Scan# 189
Delta R.T. -0.012 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

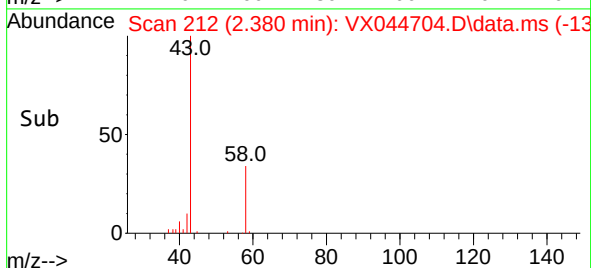
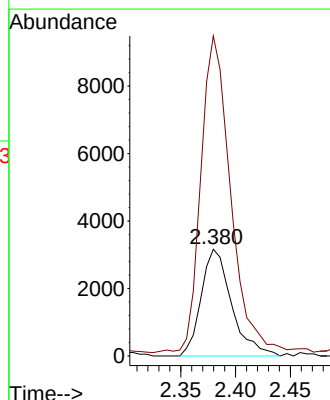
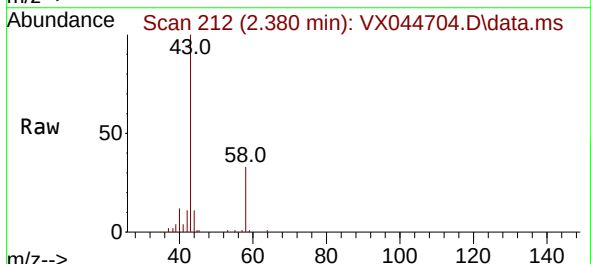
Instrument :
MSVOA_X
ClientSampleId :

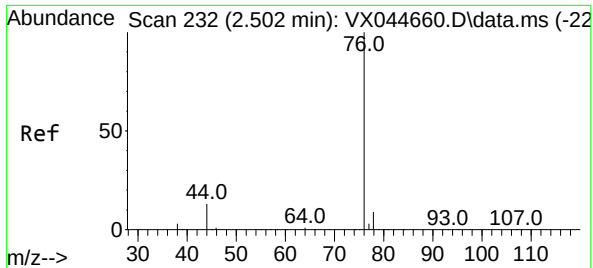
Tgt Ion: 56 Resp: 191
Ion Ratio Lower Upper
56 100
55 64.9 57.5 86.3



#15
Acetone
Concen: 20.423 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Tgt Ion: 58 Resp: 6106
Ion Ratio Lower Upper
58 100
43 294.2 251.0 376.4

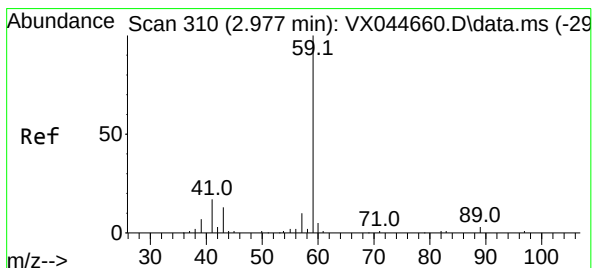
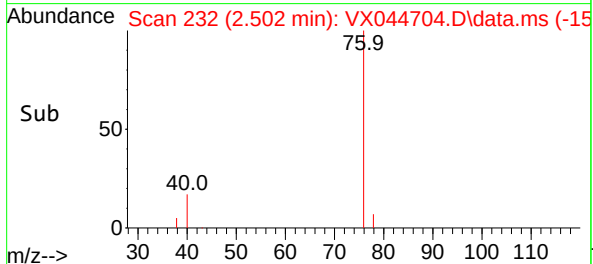
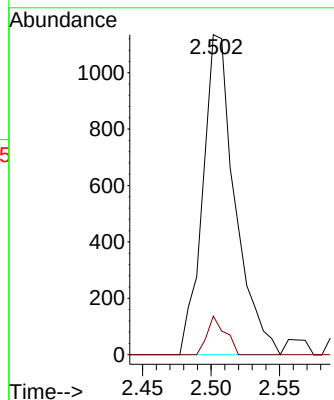
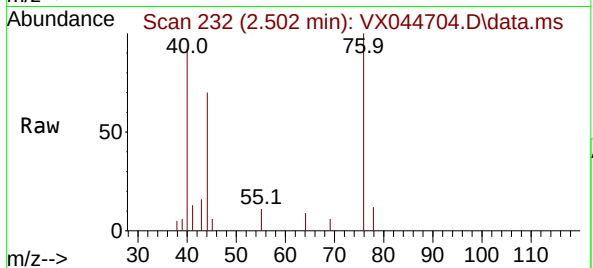




#16
Carbon Disulfide
Concen: 0.319 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

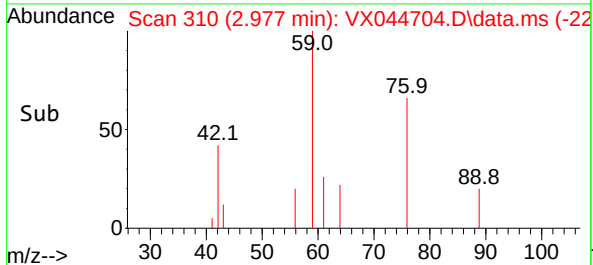
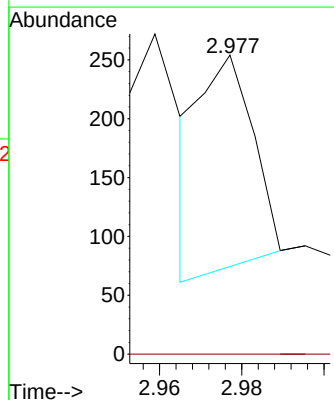
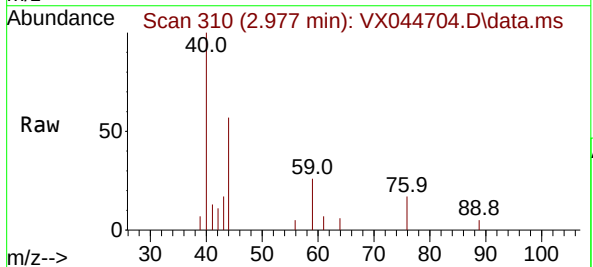
Instrument :
MSVOA_X
ClientSampleId :

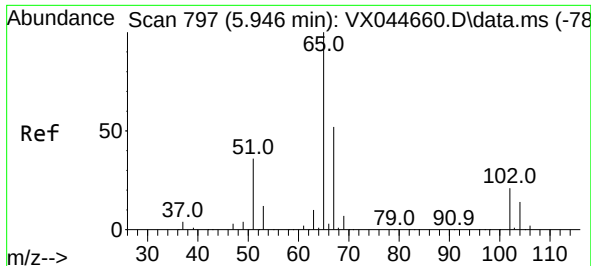
Tgt Ion: 76 Resp: 1857
Ion Ratio Lower Upper
76 100
78 12.1 7.3 10.9#



#23
tert-Butyl Alcohol
Concen: 0.306 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

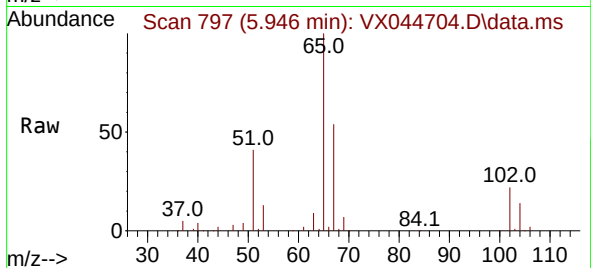
Tgt Ion: 59 Resp: 165
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



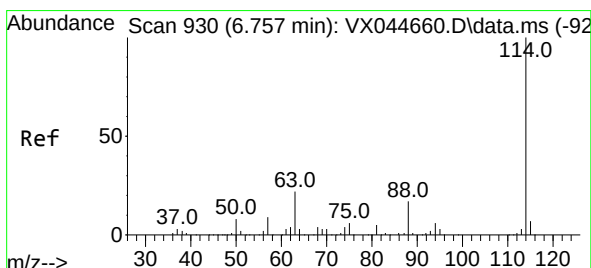
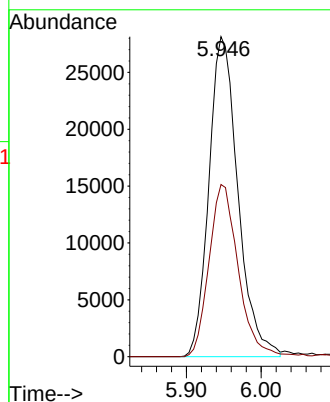
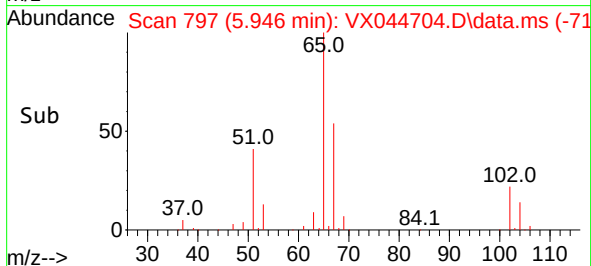


#27
1,2-Dichloroethane-d4
Concen: 27.783 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :

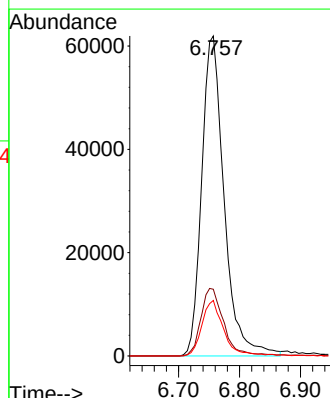
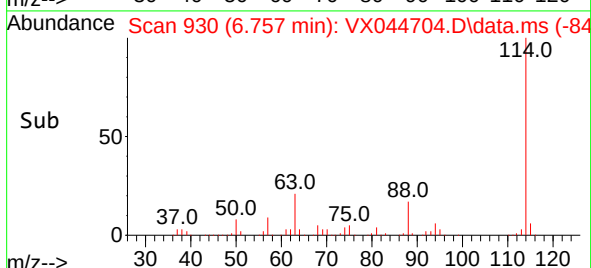
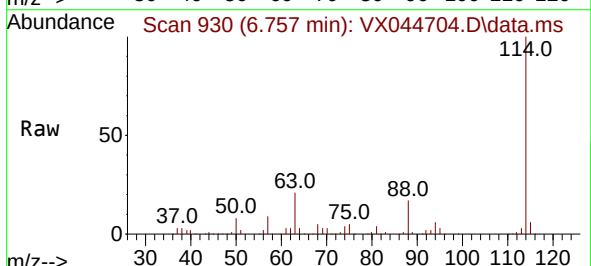


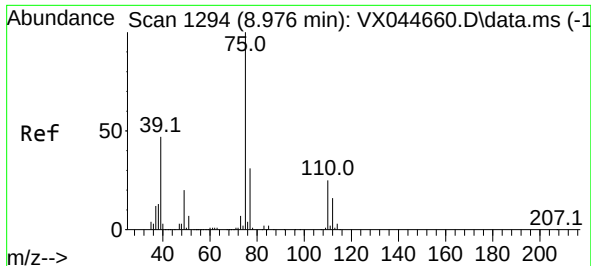
Tgt Ion: 65 Resp: 76052
Ion Ratio Lower Upper
65 100
67 54.1 41.4 62.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Tgt Ion: 114 Resp: 158559
Ion Ratio Lower Upper
114 100
63 21.0 16.6 24.8
88 16.6 13.4 20.2

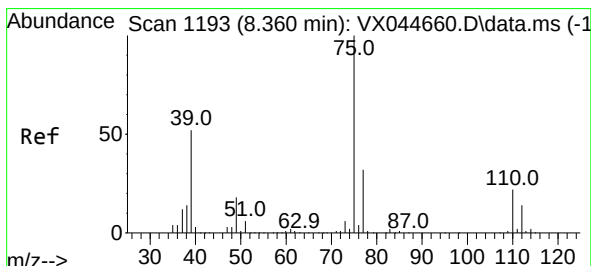
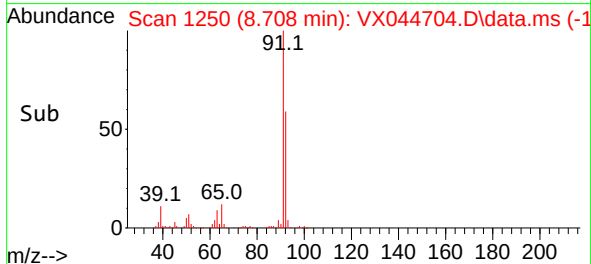
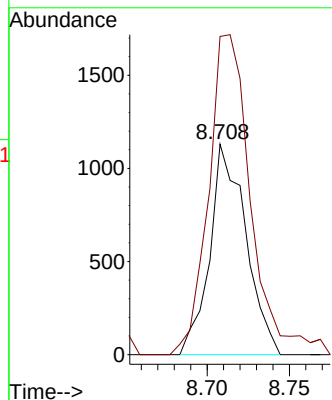
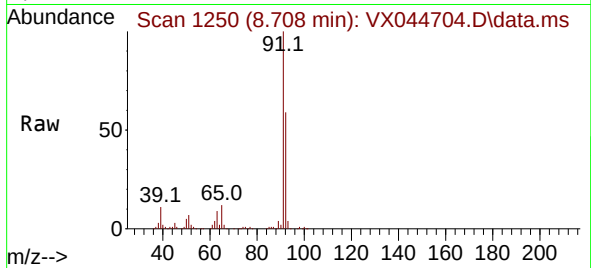




#48
t-1,3-Dichloropropene
Concen: 0.484 ug/l
RT: 8.708 min Scan# 11
Delta R.T. -0.268 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

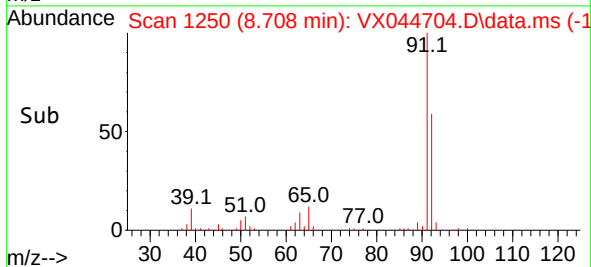
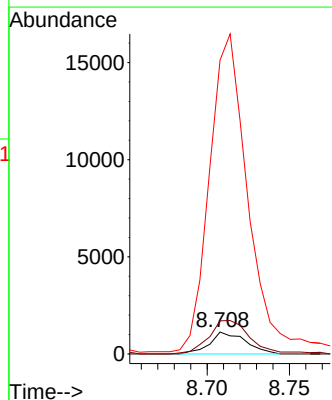
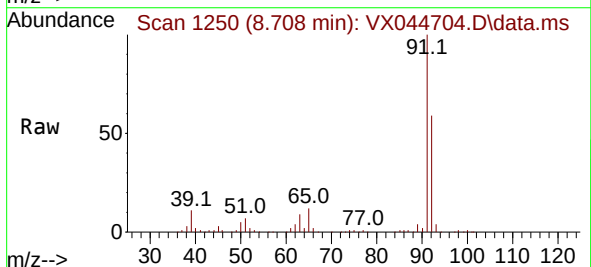
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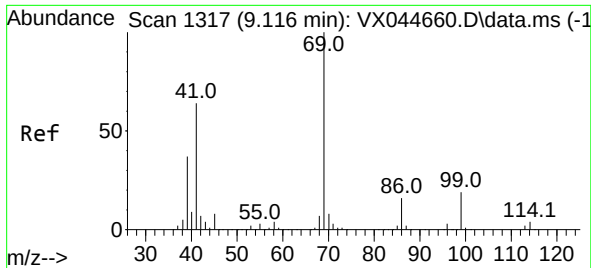
Tgt Ion: 75 Resp: 1719
Ion Ratio Lower Upper
75 100
77 146.3 24.8 37.2#



#49
cis-1,3-Dichloropropene
Concen: 0.451 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.348 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Tgt Ion: 75 Resp: 1719
Ion Ratio Lower Upper
75 100
77 146.3 25.4 38.0#
39 1319.2 41.4 62.0#

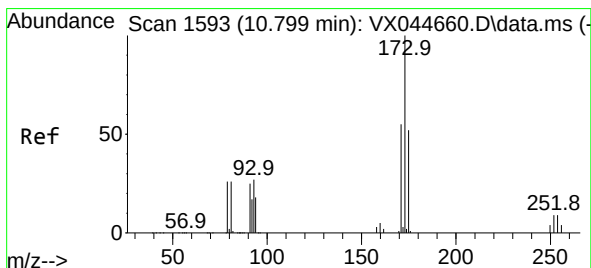
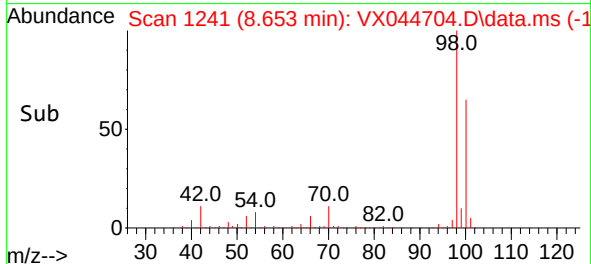
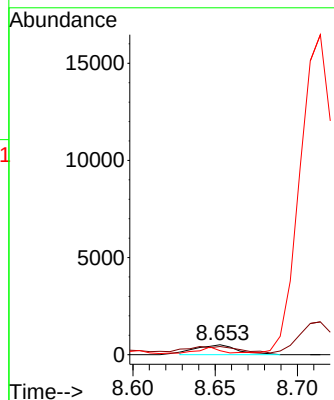
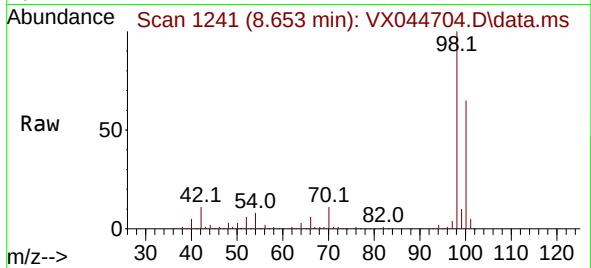




#51
Ethyl methacrylate
Concen: 0.240 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

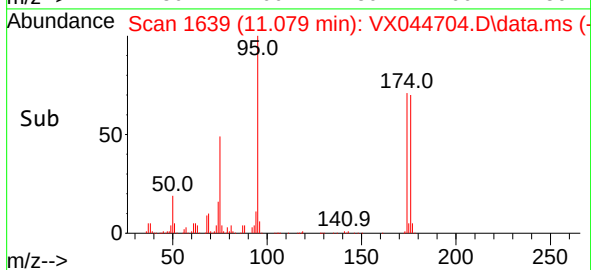
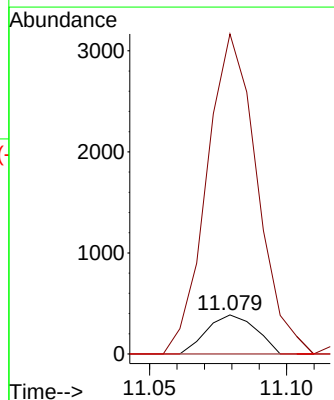
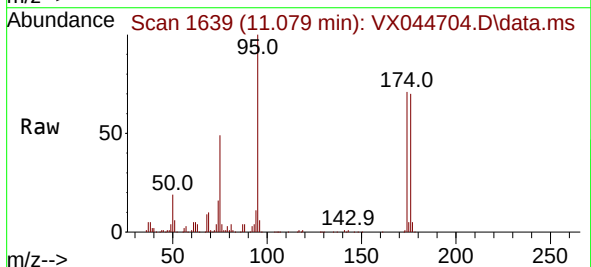
Instrument :
MSVOA_X
ClientSampleId :

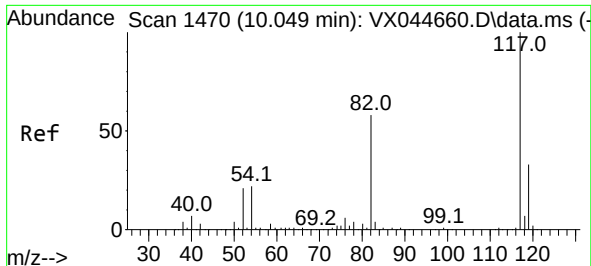
Tgt Ion: 69 Resp: 876
Ion Ratio Lower Upper
69 100
41 44.9 32.0 96.0
39 25.5 18.6 55.6



#56
Bromoform
Concen: 0.291 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Tgt Ion:173 Resp: 484
Ion Ratio Lower Upper
173 100
175 836.0 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: VX044704.D

Acq: 23 Jan 2025 11:16

Instrument :

MSVOA_X

ClientSampleId :

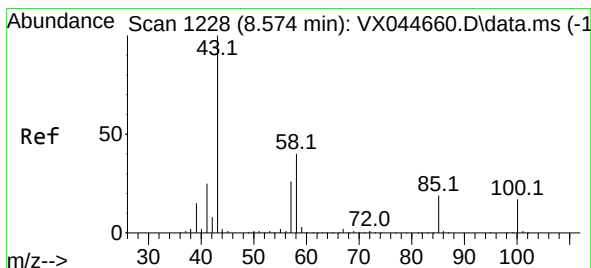
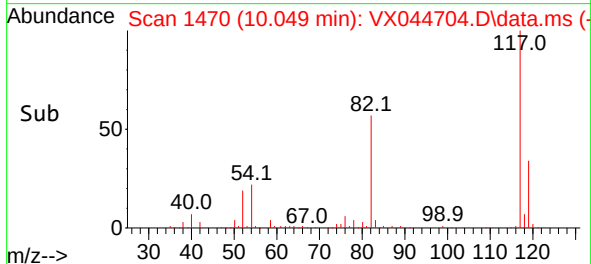
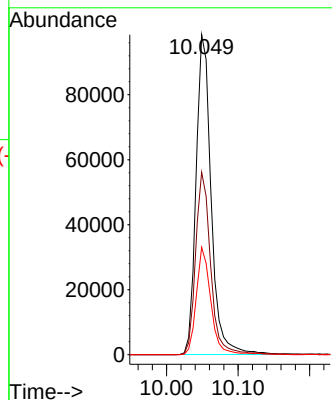
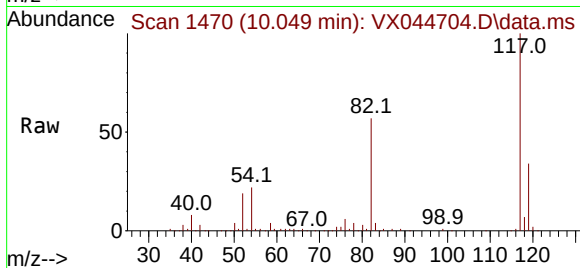
Tgt Ion:117 Resp: 144308

Ion Ratio Lower Upper

117 100

82 56.7 45.8 68.6

119 31.9 25.8 38.6



#58

4-Methyl-2-Pentanone

Concen: 1.396 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044704.D

Acq: 23 Jan 2025 11:16

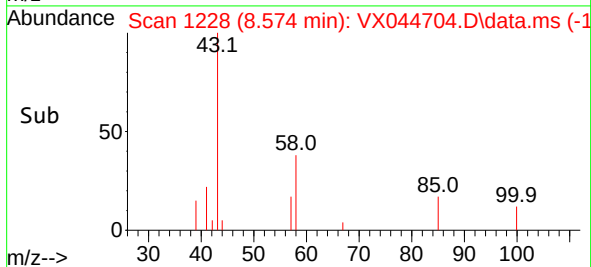
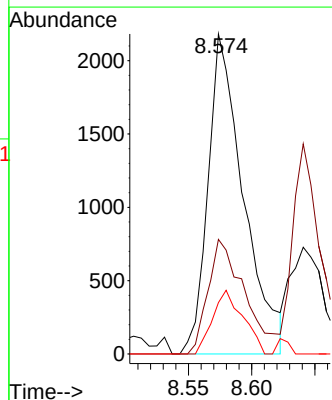
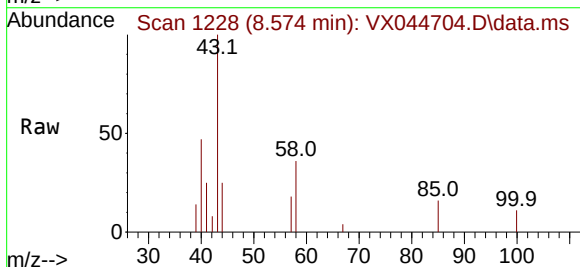
Tgt Ion: 43 Resp: 4245

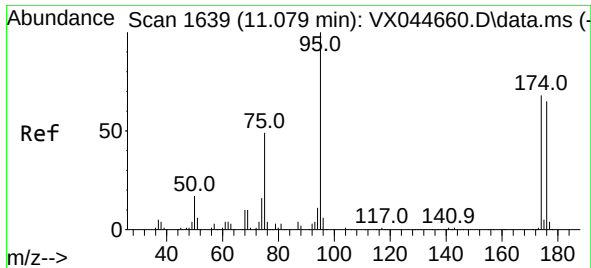
Ion Ratio Lower Upper

43 100

58 37.7 31.7 47.5

85 17.1 15.0 22.6

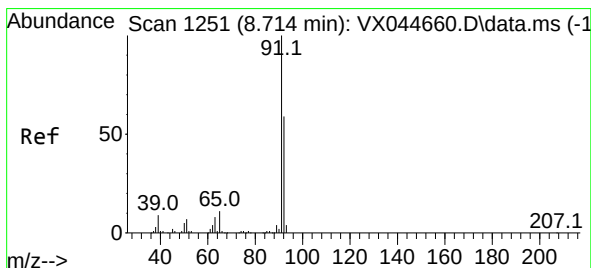
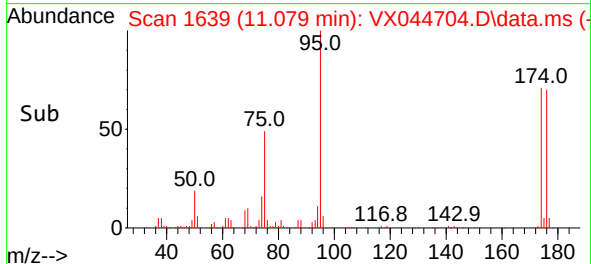
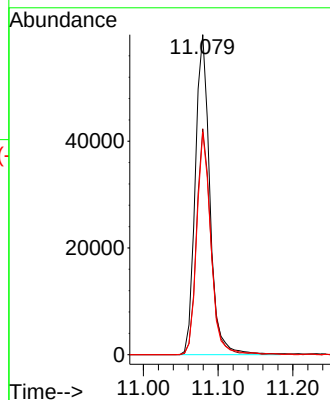
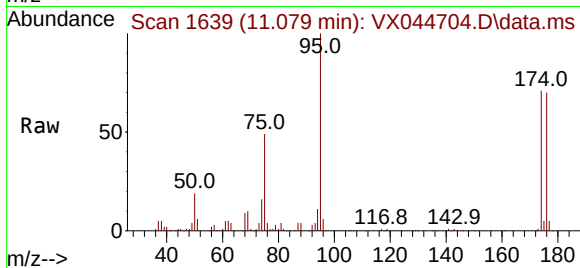




#60
4-Bromofluorobenzene
Concen: 28.896 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

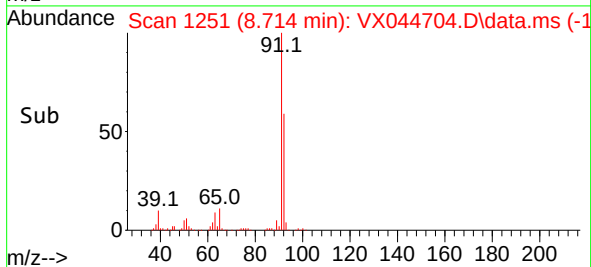
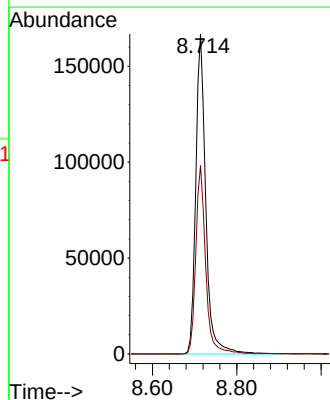
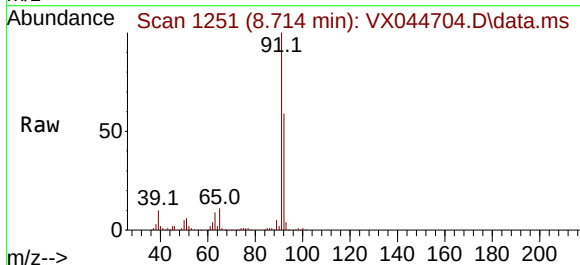
Instrument :
MSVOA_X
ClientSampleId :

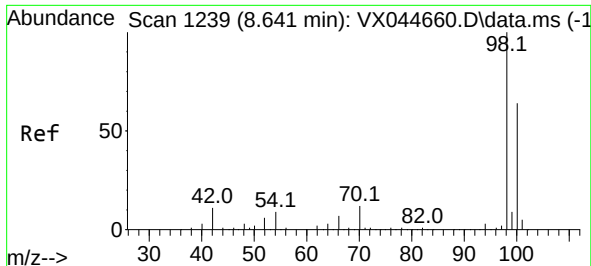
Tgt Ion: 95 Resp: 80994
Ion Ratio Lower Upper
95 100
174 69.1 54.6 81.8
176 67.0 52.8 79.2



#62
Toluene
Concen: 29.003 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Tgt Ion: 91 Resp: 275592
Ion Ratio Lower Upper
91 100
92 58.0 47.3 70.9

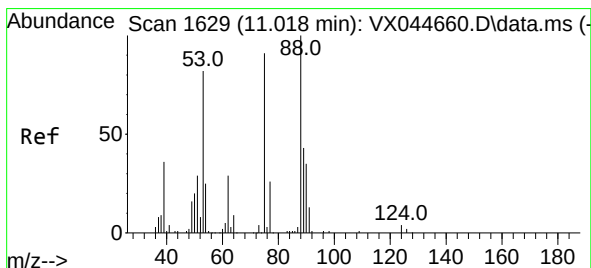
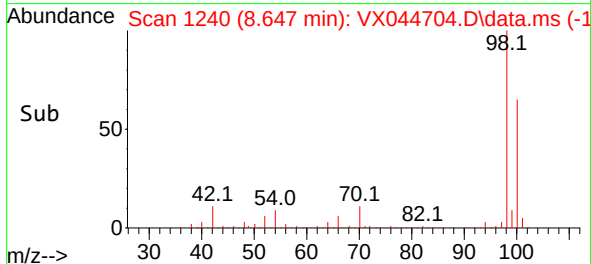
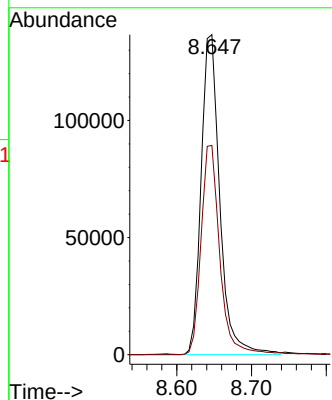
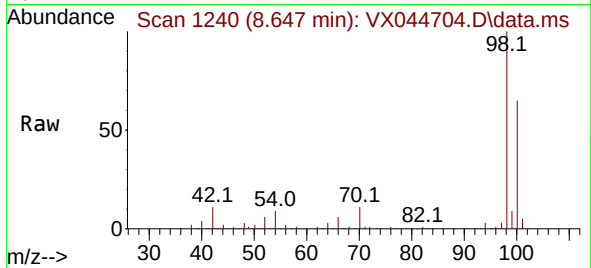




#63
Toluene-d8
Concen: 30.271 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

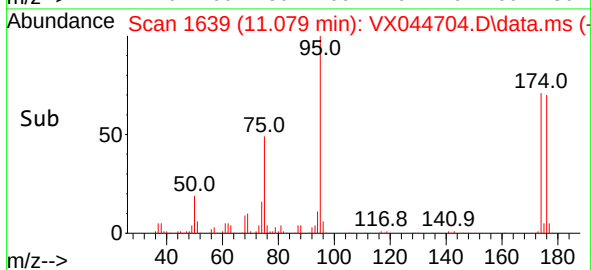
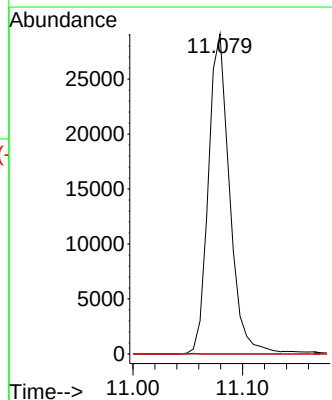
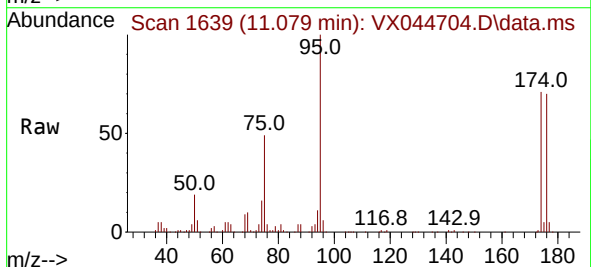
Instrument :
MSVOA_X
ClientSampleId :

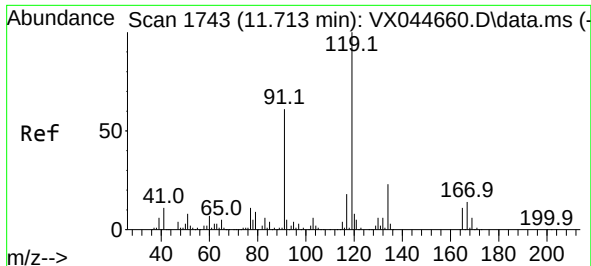
Tgt Ion: 98 Resp: 237595
Ion Ratio Lower Upper
98 100
100 65.1 53.6 80.4



#77
t-1,4-Dichloro-2-butene
Concen: 30.390 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

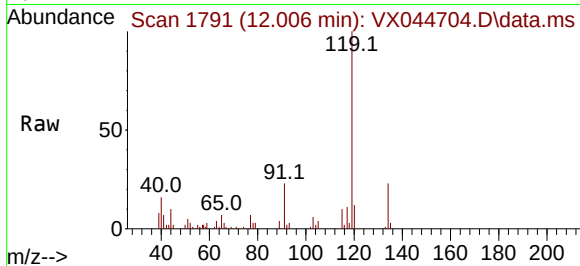
Tgt Ion: 75 Resp: 39107
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 23.8 71.2#



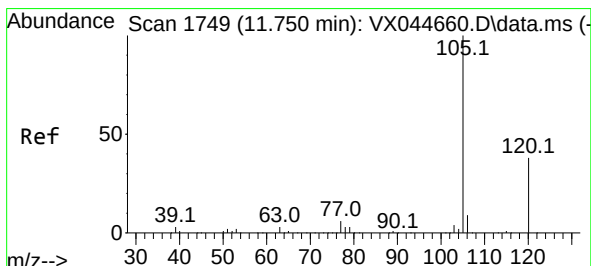
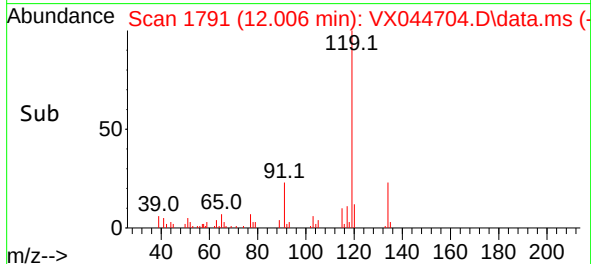
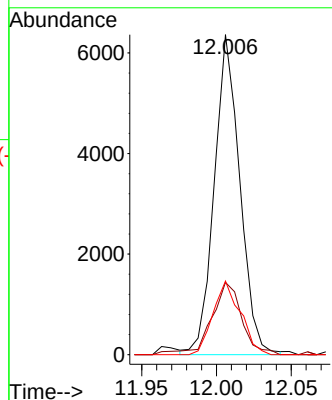


#79
tert-butylbenzene
Concen: 0.943 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

Instrument :
MSVOA_X
ClientSampleId :

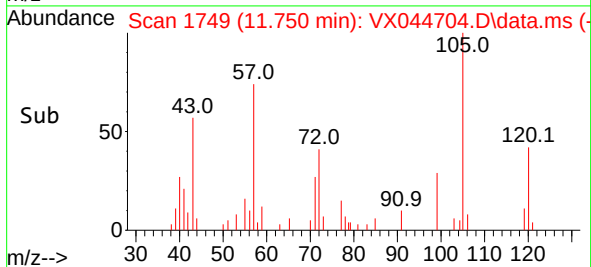
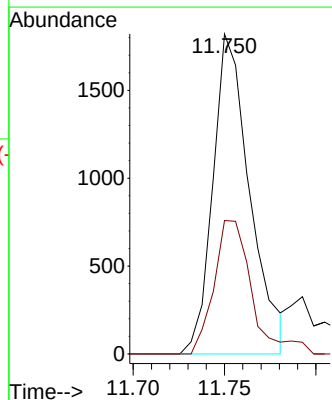
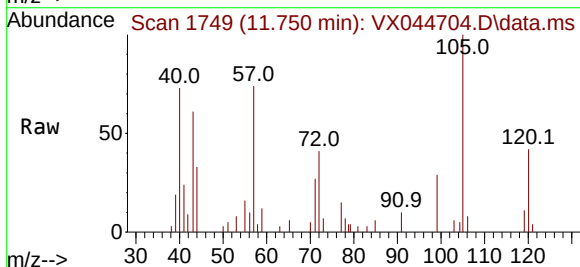


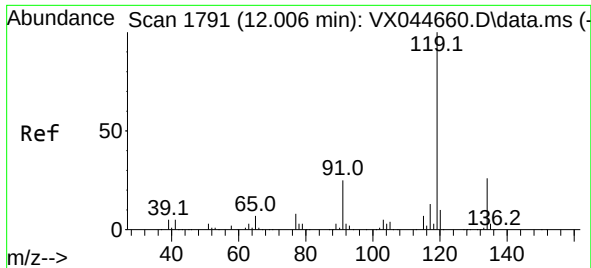
Tgt Ion:119 Resp: 7569
Ion Ratio Lower Upper
119 100
91 25.3 0.0 119.0
134 24.6 0.0 44.8



#80
1,2,4-Trimethylbenzene
Concen: 0.324 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

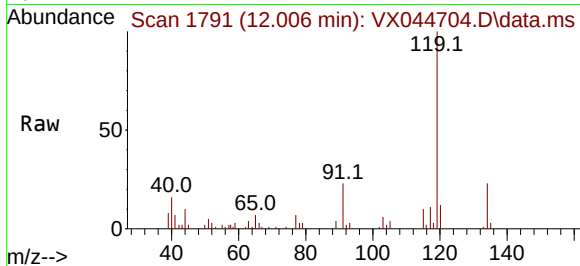
Tgt Ion:105 Resp: 2555
Ion Ratio Lower Upper
105 100
120 40.7 0.0 88.4



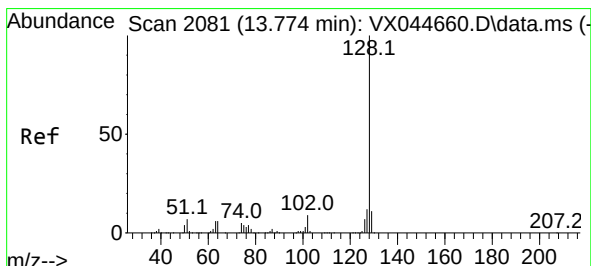
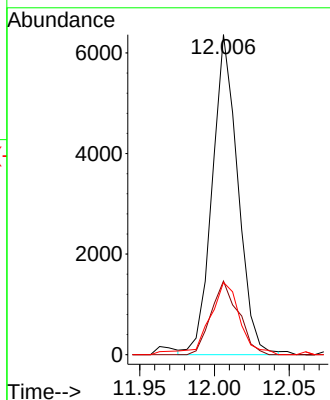
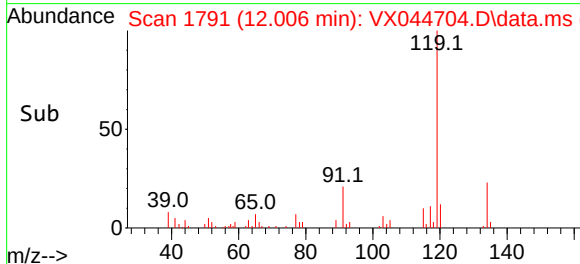


#82
p-Isopropyltoluene
Concen: 0.960 ug/l
RT: 12.006 min Scan# 119
Delta R.T. 0.000 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16

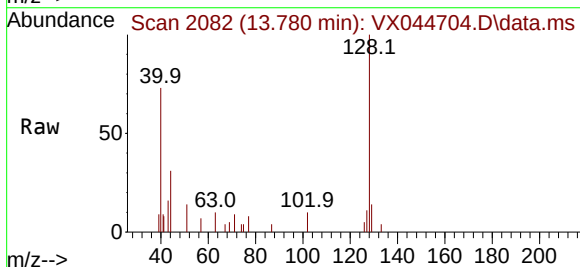
Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:119 Resp: 7569
Ion Ratio Lower Upper
119 100
134 24.6 0.0 52.2
91 25.3 0.0 50.2



#91
Naphthalene
Concen: 0.225 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX044704.D
Acq: 23 Jan 2025 11:16



Tgt Ion:128 Resp: 2077
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.4
129 11.6 9.0 13.6

