

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012325\
 Data File : VX044705.D
 Acq On : 23 Jan 2025 11:39
 Operator : JC/MD
 Sample : Q1145-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 24 03:16:10 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)

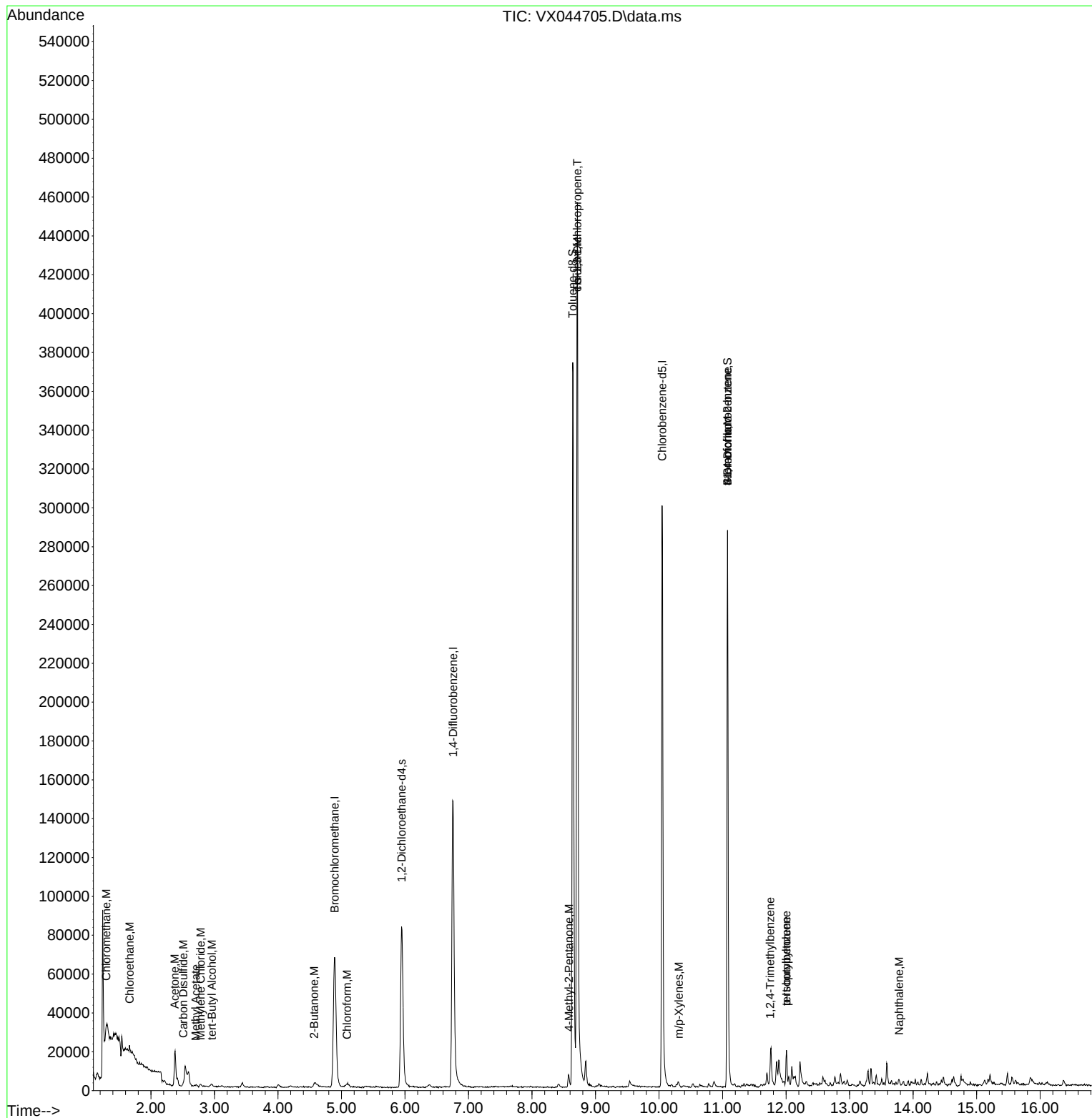
Internal Standards						
1) Bromochloromethane	4.891	128	29592	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	163912	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	147341	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	79087	27.684	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.267%		
60) 4-Bromofluorobenzene	11.079	95	83262	29.094	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.967%		
63) Toluene-d8	8.641	98	247255	30.853	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.833%		
Target Compounds						Qvalue
3) Chloromethane	1.294	50	1728	0.624	ug/l #	86
6) Chloroethane	1.666	64	7273	16.939	ug/l #	52
12) Methyl Acetate	2.703	43	1176	0.369	ug/l #	78
15) Acetone	2.374	58	6884	22.063	ug/l	90
16) Carbon Disulfide	2.508	76	1738	0.286	ug/l	96
18) Methylene Chloride	2.782	84	600	0.245	ug/l #	92
23) tert-Butyl Alcohol	2.959	59	449	0.798	ug/l #	100
25) Chloroform	5.086	83	1007	0.239	ug/l	93
30) 2-Butanone	4.568	43	1473	0.941	ug/l #	55
49) cis-1,3-Dichloropropene	8.714	75	2069	0.525	ug/l #	1
56) Bromoform	11.079	173	437	0.254	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	4622	1.488	ug/l	96
62) Toluene	8.714	91	311642	32.122	ug/l	99
67) m/p-Xylenes	10.311	106	820	0.211	ug/l	86
77) t-1,4-Dichloro-2-butene	11.079	75	41728	31.759	ug/l #	13
79) tert-butylbenzene	12.006	119	8221	1.003	ug/l	66
80) 1,2,4-Trimethylbenzene	11.750	105	2730	0.339	ug/l	97
82) p-Isopropyltoluene	12.006	119	8221	1.021	ug/l	95
91) Naphthalene	13.780	128	2313	0.245	ug/l	99

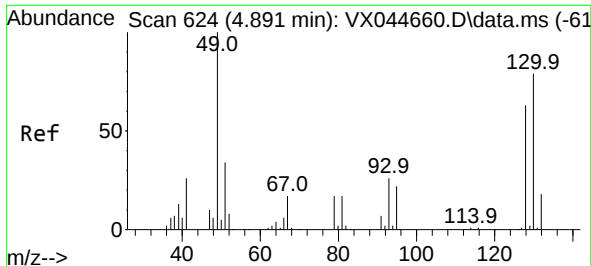
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012325\
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ClientSampleId :

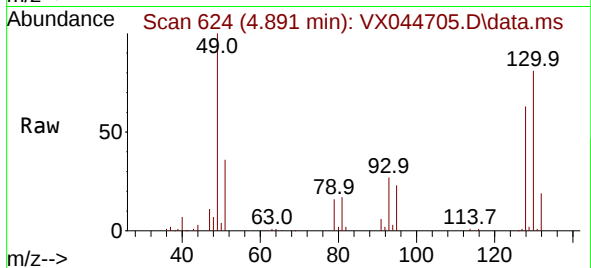
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
Response via : Initial Calibration



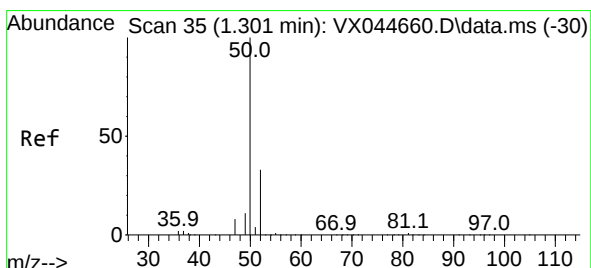
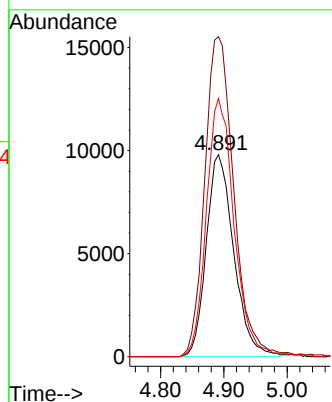
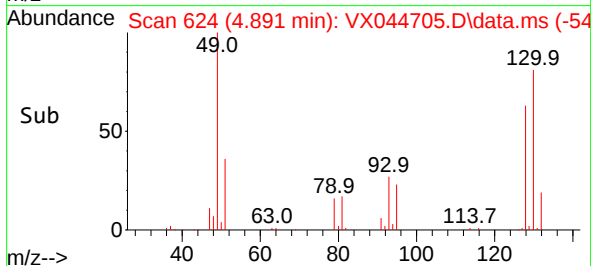


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Instrument :
MSVOA_X
ClientSampleId :

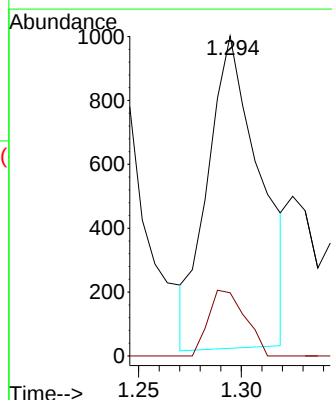
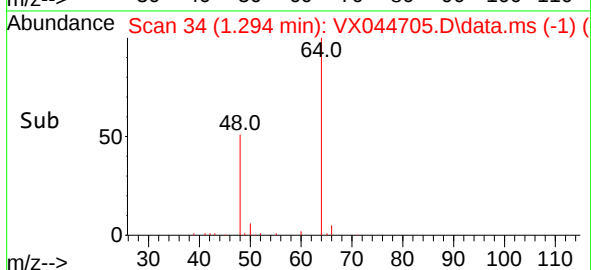
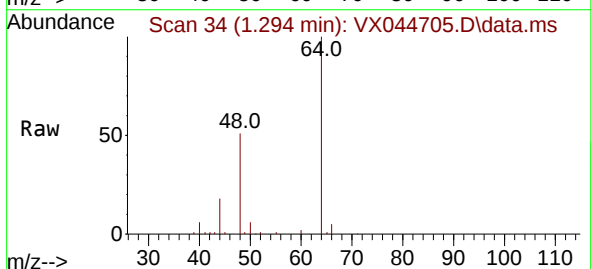


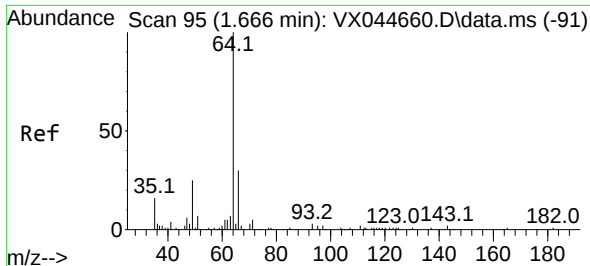
Tgt Ion:128 Resp: 29592
Ion Ratio Lower Upper
128 100
49 165.4 0.0 411.5
130 128.7 0.0 324.3



#3
Chloromethane
Concen: 0.624 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion: 50 Resp: 1728
Ion Ratio Lower Upper
50 100
52 25.4 26.5 39.7#

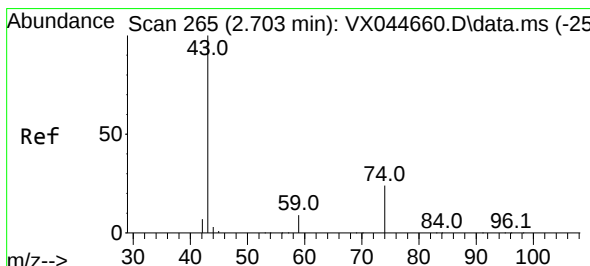
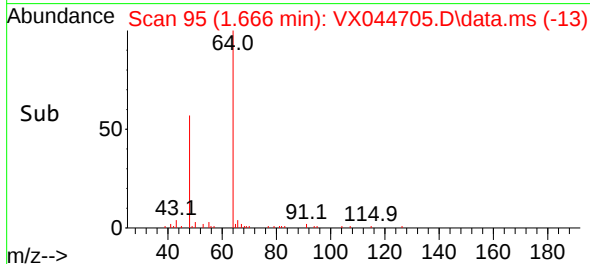
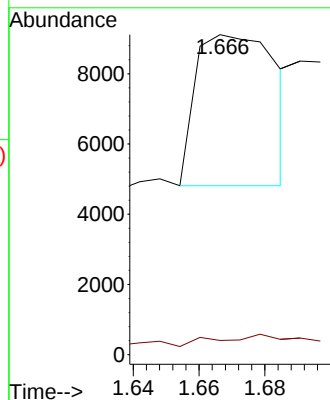
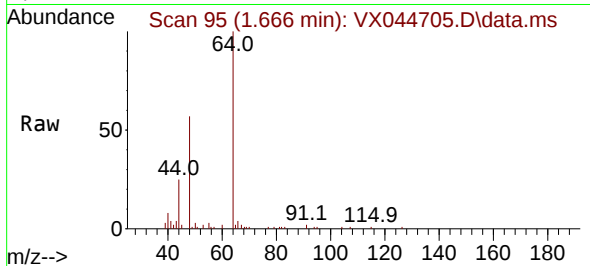




#6
Chloroethane
Concen: 16.939 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

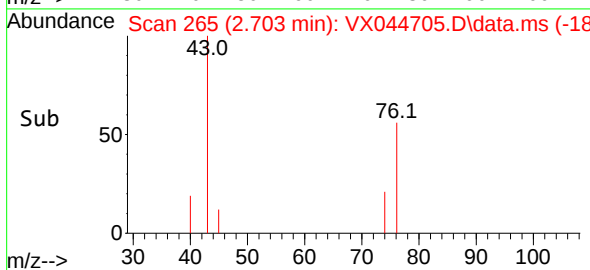
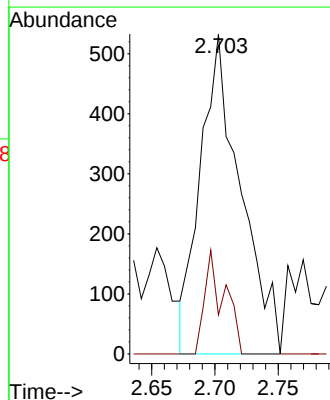
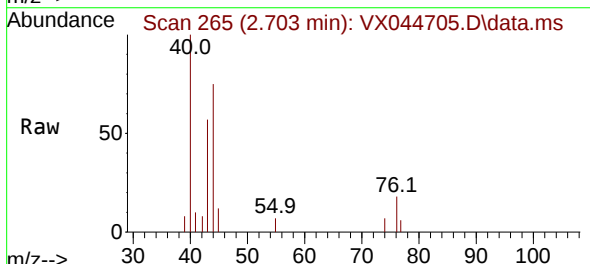
Instrument :
MSVOA_X
ClientSampleId :

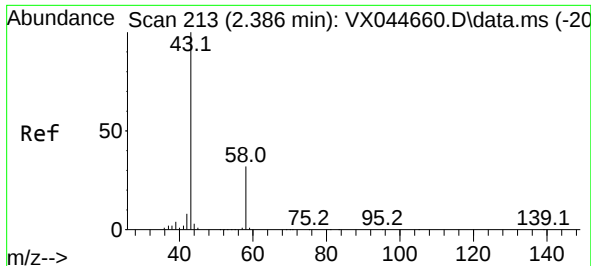
Tgt Ion: 64 Resp: 7273
Ion Ratio Lower Upper
64 100
66 4.1 23.8 35.6#



#12
Methyl Acetate
Concen: 0.369 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
74 13.3 19.4 29.2#

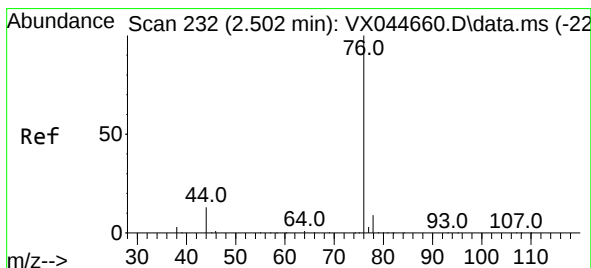
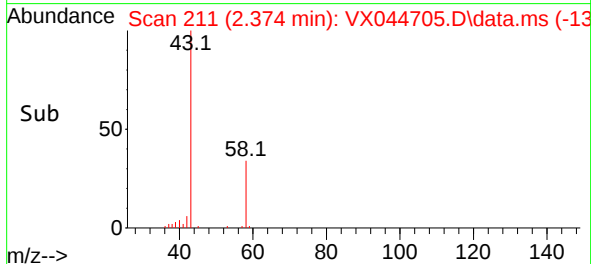
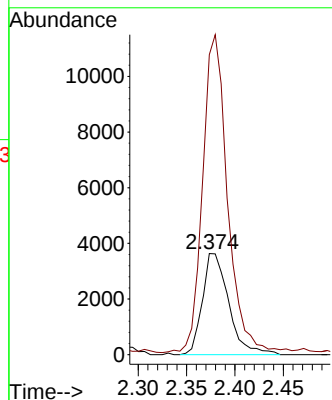
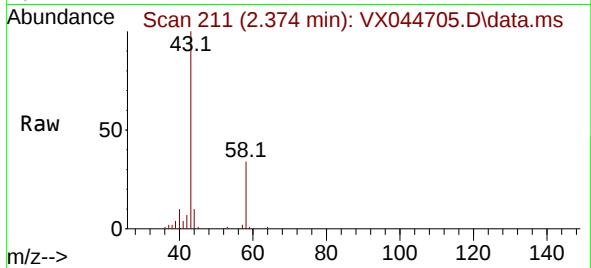




#15
Acetone
Concen: 22.063 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.012 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

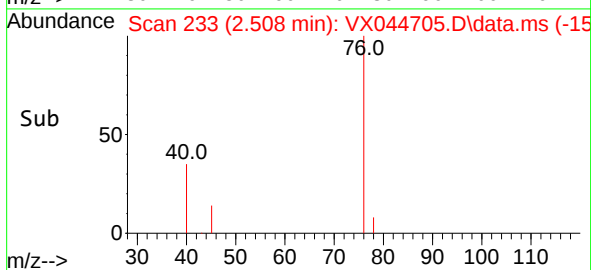
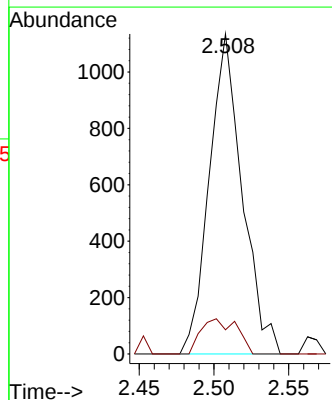
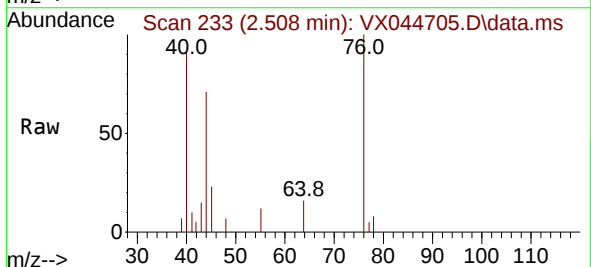
Instrument :
MSVOA_X
ClientSampleId :

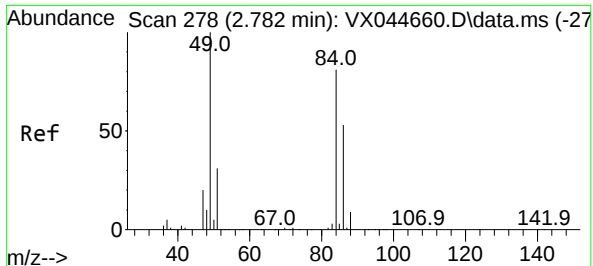
Tgt Ion: 58 Resp: 6884
Ion Ratio Lower Upper
58 100
43 293.1 251.0 376.4



#16
Carbon Disulfide
Concen: 0.286 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

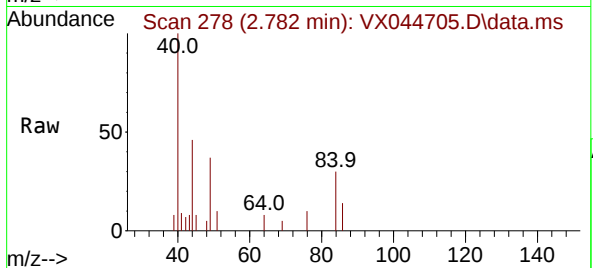
Tgt Ion: 76 Resp: 1738
Ion Ratio Lower Upper
76 100
78 7.6 7.3 10.9



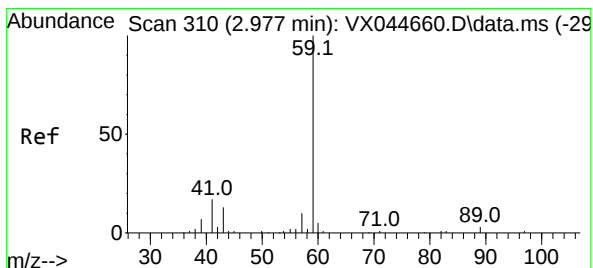
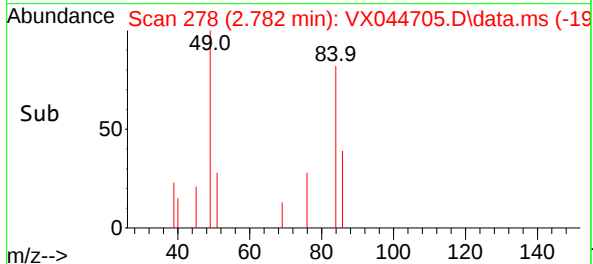
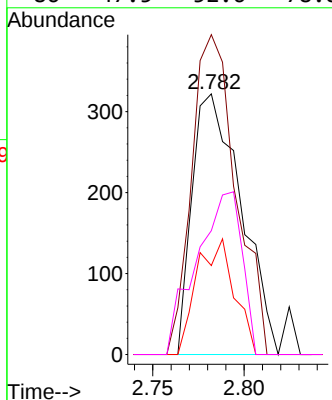


#18
Methylene Chloride
Concen: 0.245 ug/l
RT: 2.782 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Instrument :
MSVOA_X
ClientSampleId :

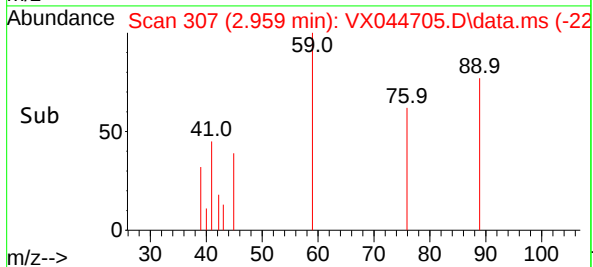
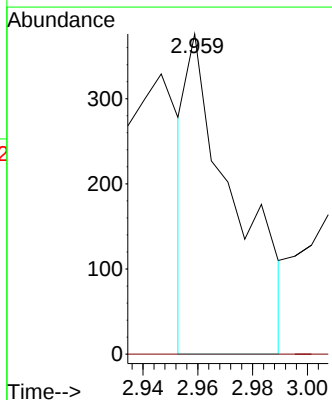
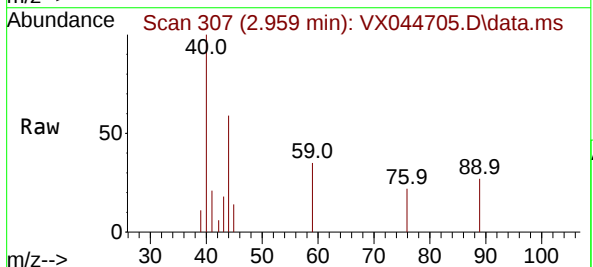


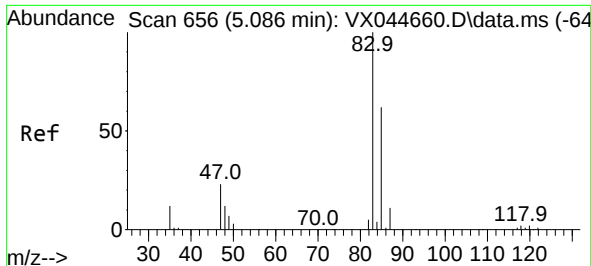
Tgt Ion:	84	Resp:	600
Ion	Ratio	Lower	Upper
84	100		
49	122.7	98.3	147.5
51	34.2	30.6	46.0
86	47.5	52.6	78.8



#23
tert-Butyl Alcohol
Concen: 0.798 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.018 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion:	59	Resp:	449
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1





#25

Chloroform

Concen: 0.239 ug/l

RT: 5.086 min Scan# 6

Delta R.T. 0.000 min

Lab File: VX044705.D

Acq: 23 Jan 2025 11:39

Instrument :

MSVOA_X

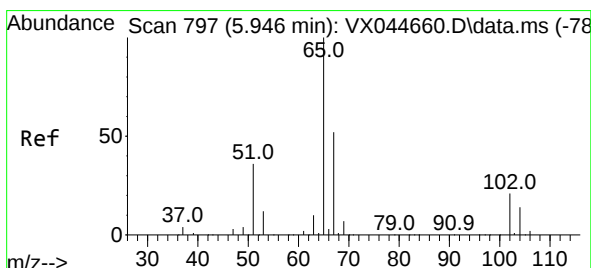
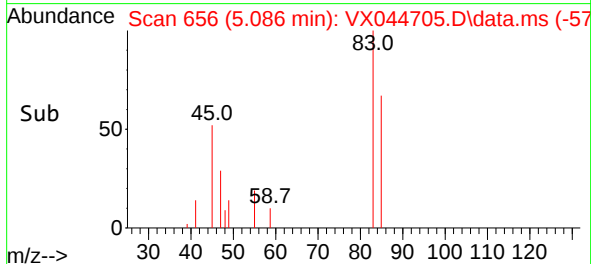
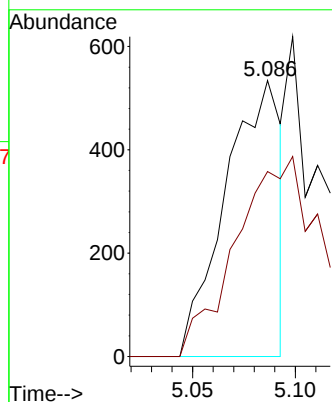
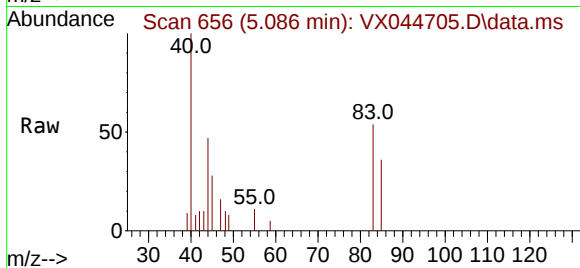
ClientSampleId :

Tgt Ion: 83 Resp: 1007

Ion Ratio Lower Upper

83 100

85 67.0 49.4 74.2



#27

1,2-Dichloroethane-d4

Concen: 27.684 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044705.D

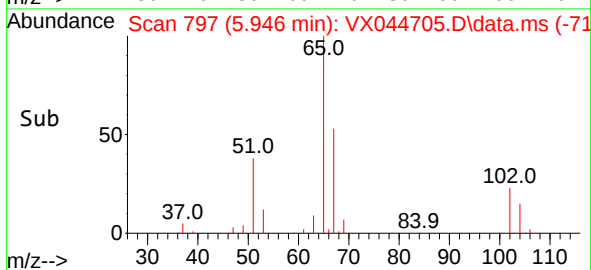
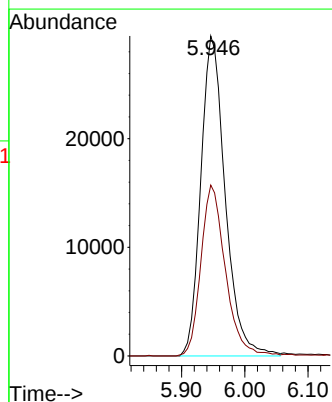
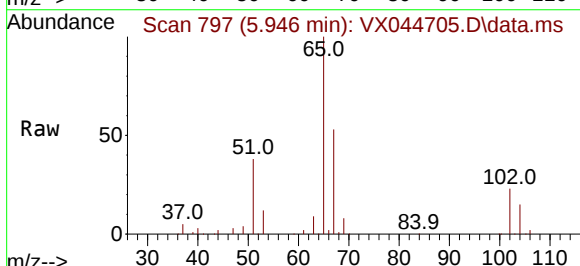
Acq: 23 Jan 2025 11:39

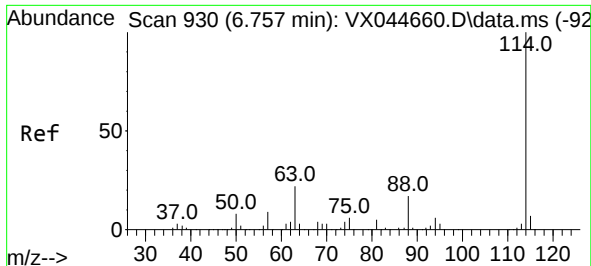
Tgt Ion: 65 Resp: 79087

Ion Ratio Lower Upper

65 100

67 53.0 41.4 62.2

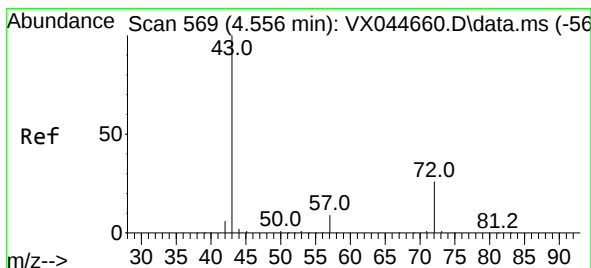
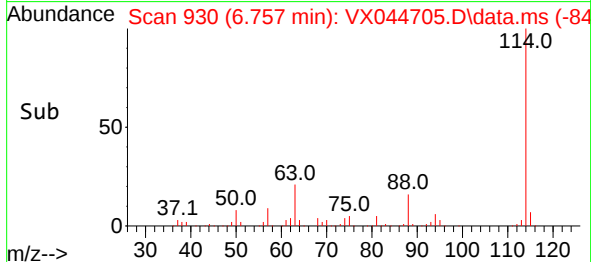
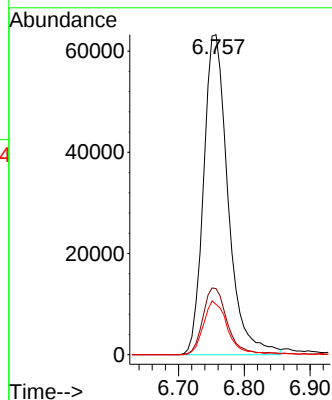
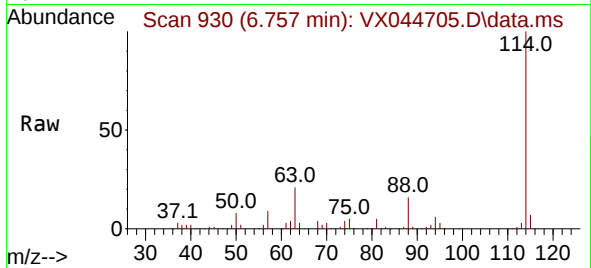




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX044705.D
 Acq: 23 Jan 2025 11:39

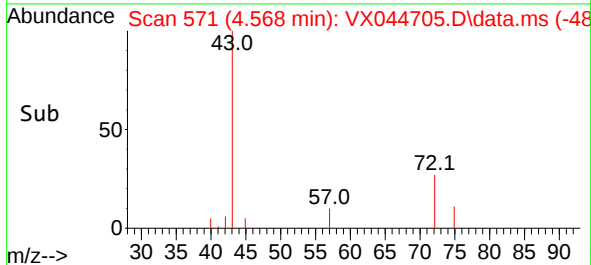
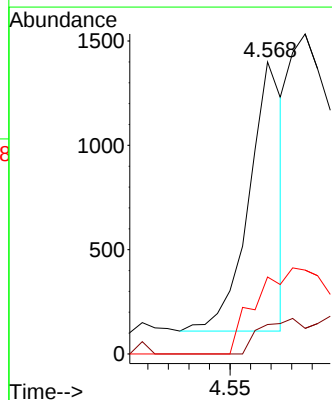
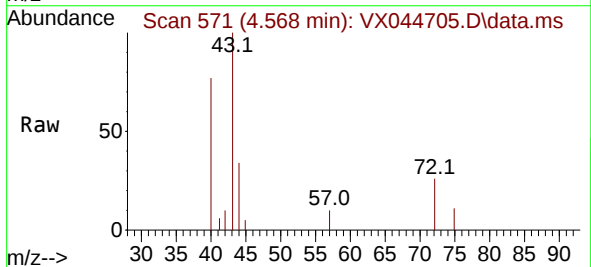
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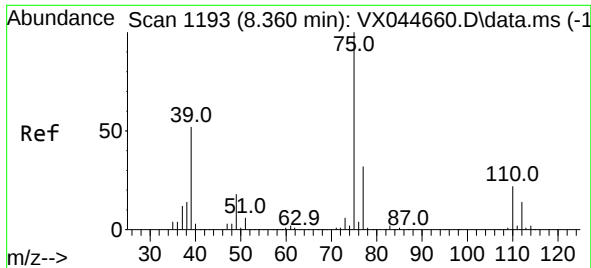
Tgt Ion:114 Resp: 163912
 Ion Ratio Lower Upper
 114 100
 63 20.6 16.6 24.8
 88 16.4 13.4 20.2



#30
 2-Butanone
 Concen: 0.941 ug/l
 RT: 4.568 min Scan# 571
 Delta R.T. 0.012 min
 Lab File: VX044705.D
 Acq: 23 Jan 2025 11:39

Tgt Ion: 43 Resp: 1473
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.4 9.6#
 72 0.0 21.5 32.3#

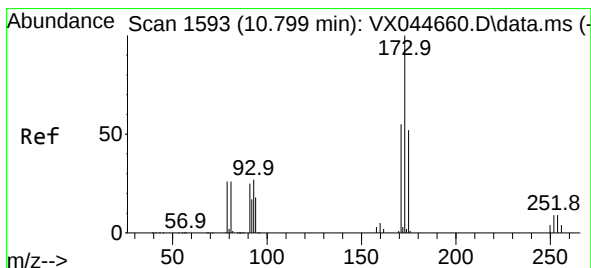
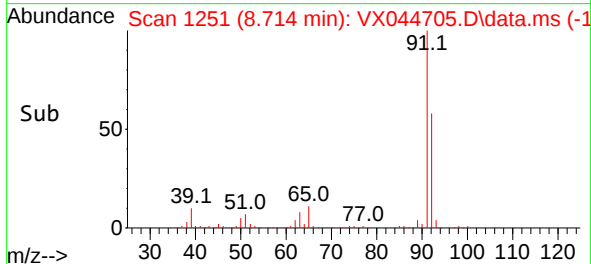
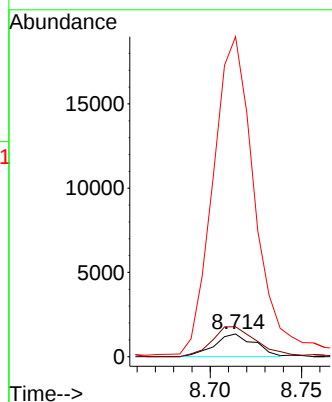
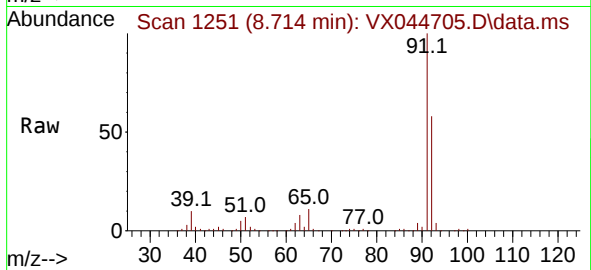




#49
cis-1,3-Dichloropropene
Concen: 0.525 ug/l
RT: 8.714 min Scan# 1193
Delta R.T. 0.354 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

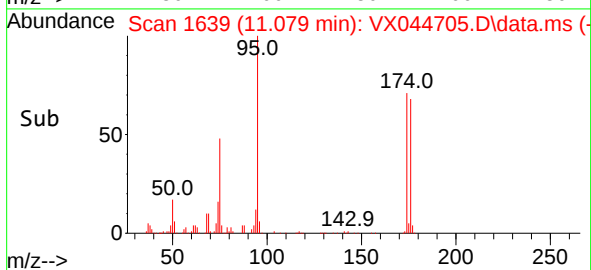
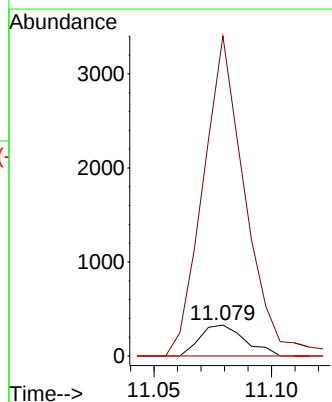
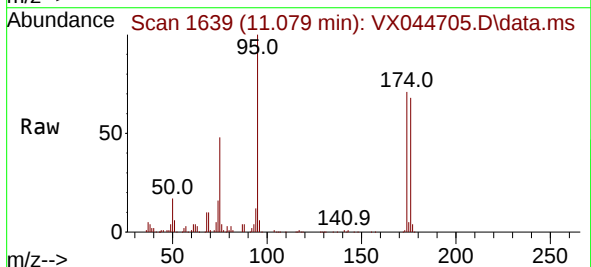
Instrument :
MSVOA_X
ClientSampleId :

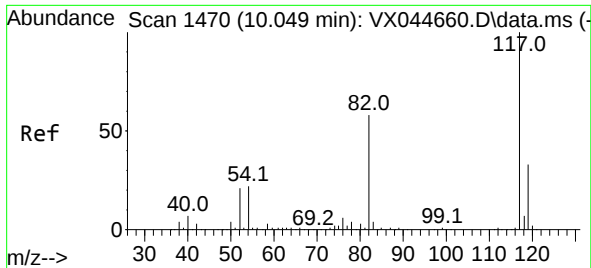
Tgt Ion: 75 Resp: 2069
Ion Ratio Lower Upper
75 100
77 131.5 25.4 38.0#
39 1395.7 41.4 62.0#



#56
Bromoform
Concen: 0.254 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion:173 Resp: 437
Ion Ratio Lower Upper
173 100
175 957.7 39.0 58.6#
254 0.0 6.5 9.7#

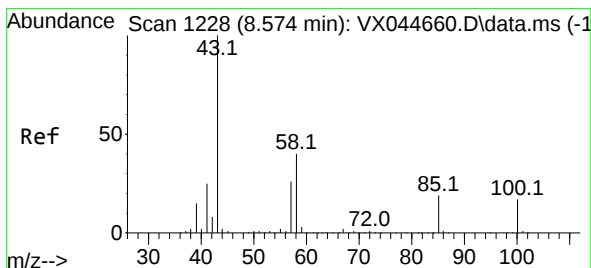
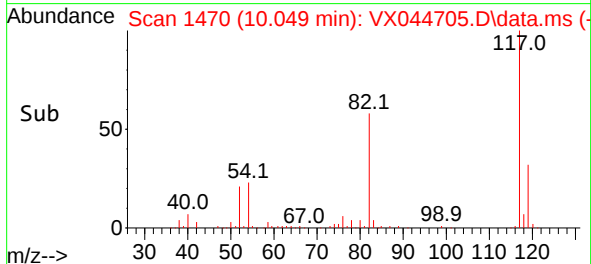
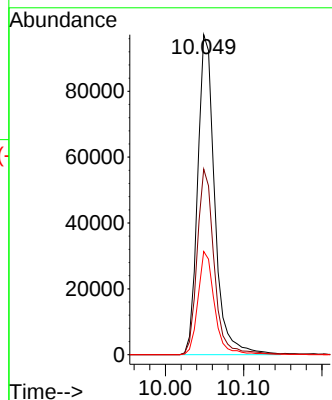
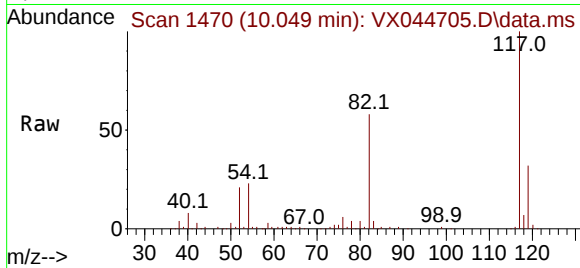




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

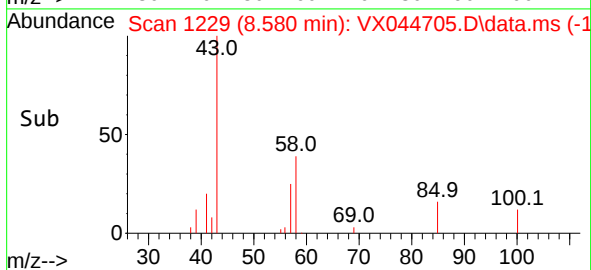
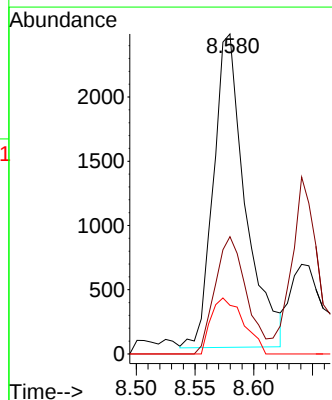
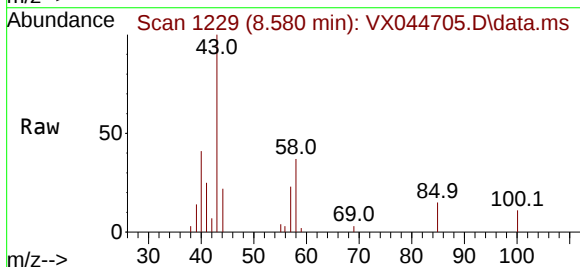
Instrument :
MSVOA_X
ClientSampleId :

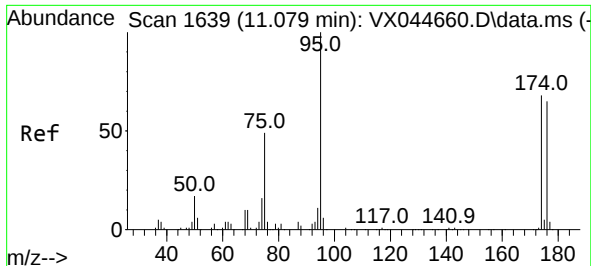
Tgt Ion:117 Resp: 147341
Ion Ratio Lower Upper
117 100
82 58.0 45.8 68.6
119 31.2 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.488 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion: 43 Resp: 4622
Ion Ratio Lower Upper
43 100
58 36.5 31.7 47.5
85 18.2 15.0 22.6

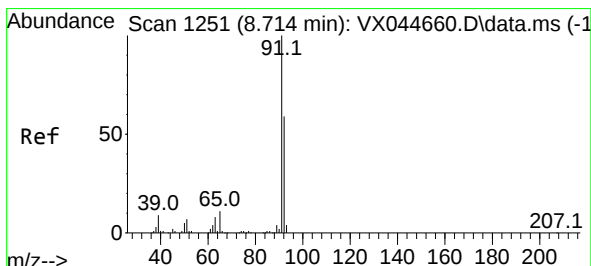
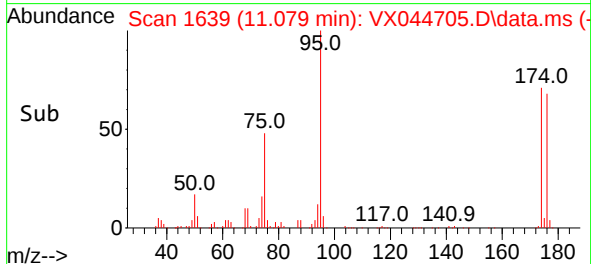
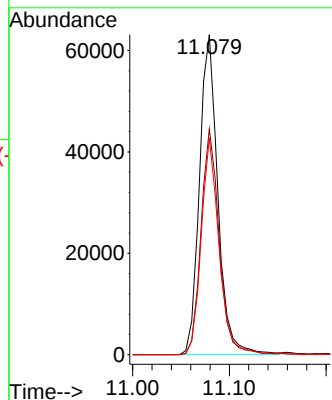
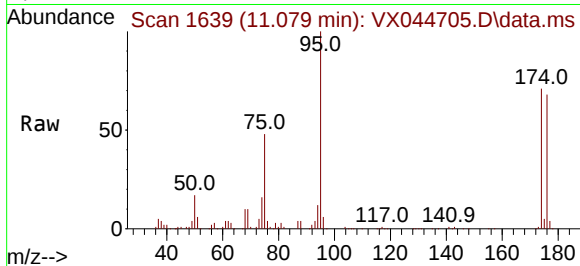




#60
4-Bromofluorobenzene
Concen: 29.094 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

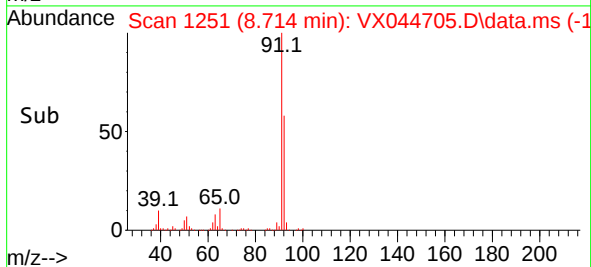
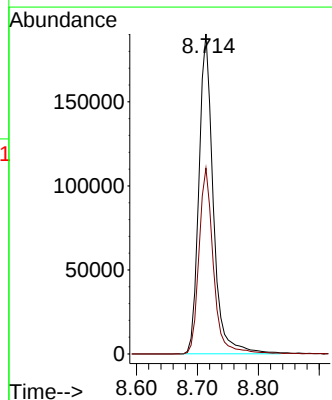
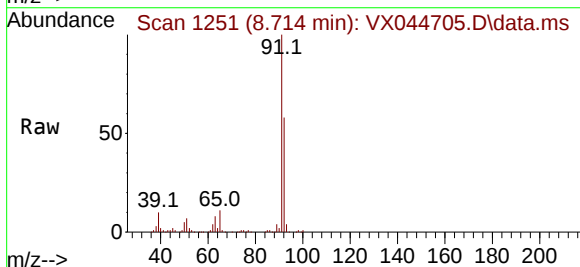
Instrument :
MSVOA_X
ClientSampleId :

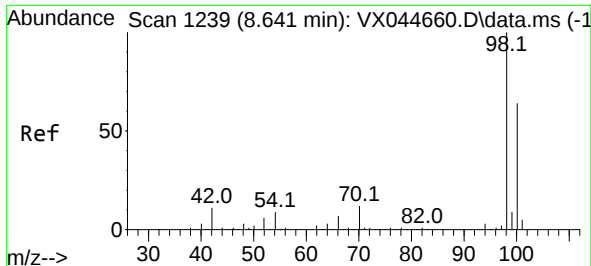
Tgt Ion: 95 Resp: 83262
Ion Ratio Lower Upper
95 100
174 69.6 54.6 81.8
176 65.7 52.8 79.2



#62
Toluene
Concen: 32.122 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion: 91 Resp: 311642
Ion Ratio Lower Upper
91 100
92 58.5 47.3 70.9

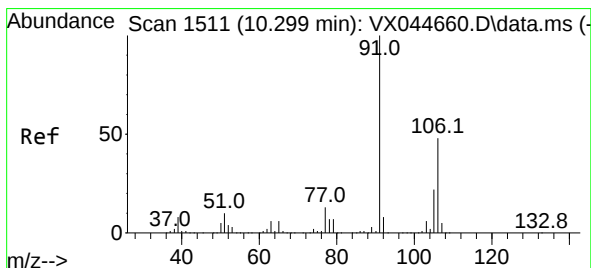
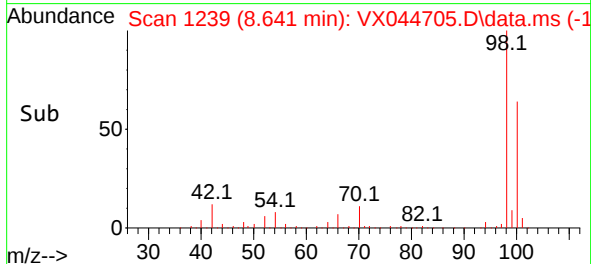
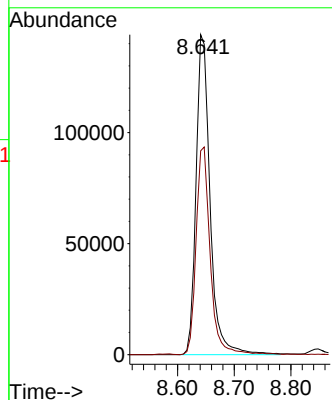
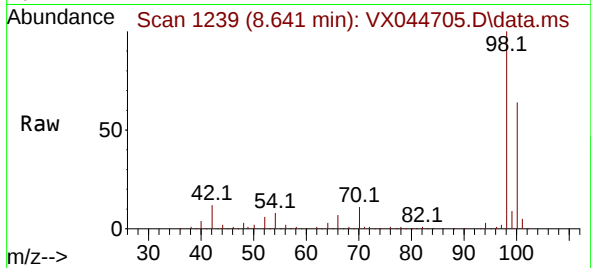




#63
Toluene-d8
Concen: 30.853 ug/l
RT: 8.641 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

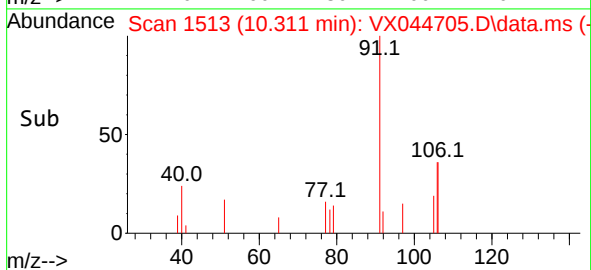
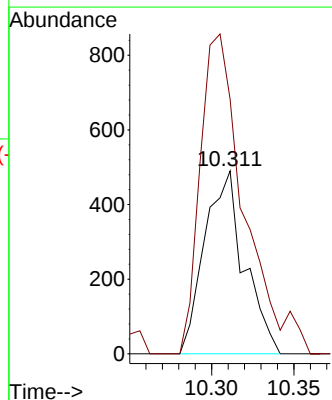
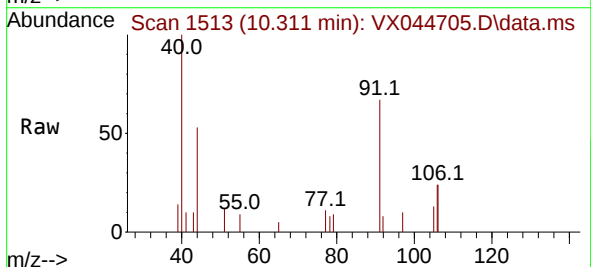
Instrument :
MSVOA_X
ClientSampleId :

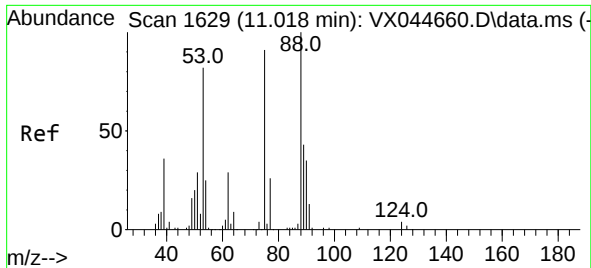
Tgt Ion: 98 Resp: 247255
Ion Ratio Lower Upper
98 100
100 64.9 53.6 80.4



#67
m/p-Xylenes
Concen: 0.211 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion: 106 Resp: 820
Ion Ratio Lower Upper
106 100
91 186.7 166.8 250.2

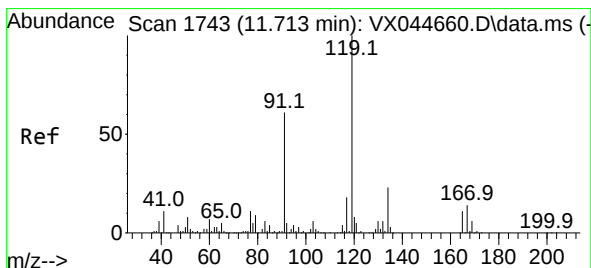
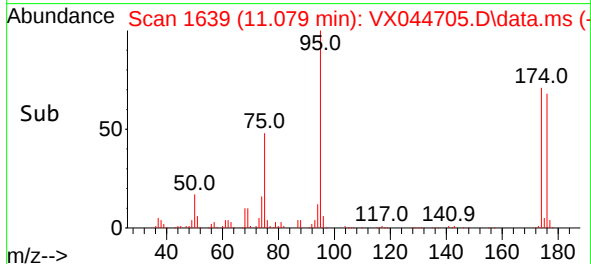
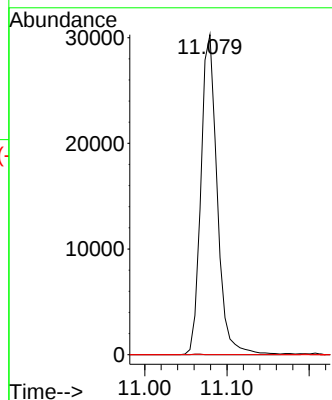
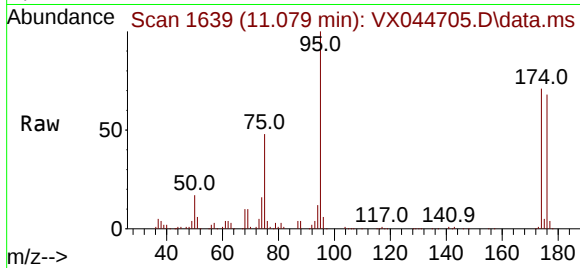




#77
t-1,4-Dichloro-2-butene
Concen: 31.759 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

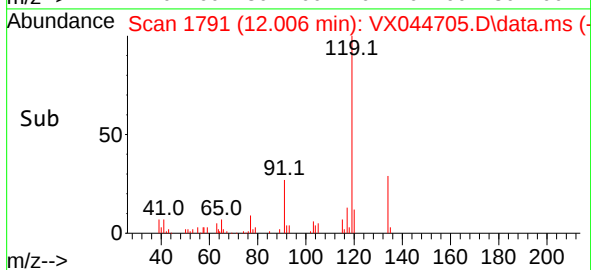
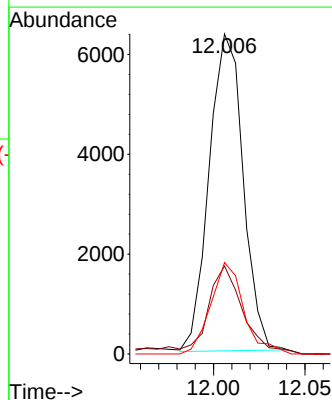
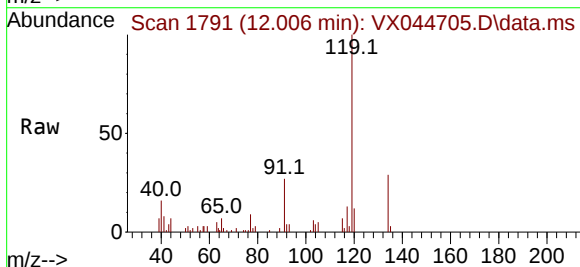
Instrument :
MSVOA_X
ClientSampleId :

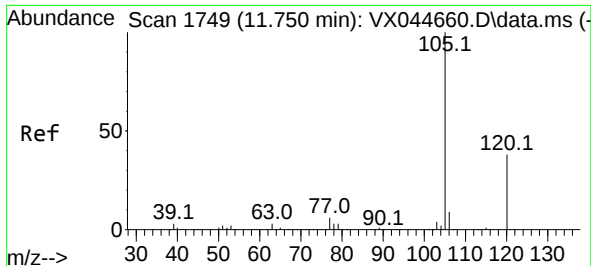
Tgt Ion: 75 Resp: 41728
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 23.8 71.2#



#79
tert-butylbenzene
Concen: 1.003 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion: 119 Resp: 8221
Ion Ratio Lower Upper
119 100
91 27.9 0.0 119.0
134 28.0 0.0 44.8

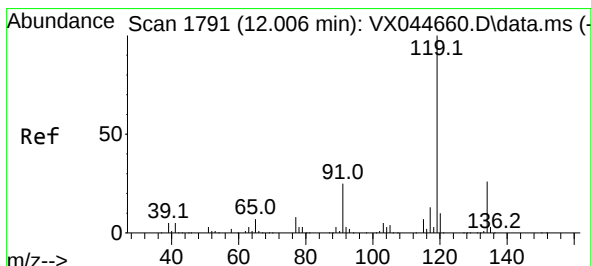
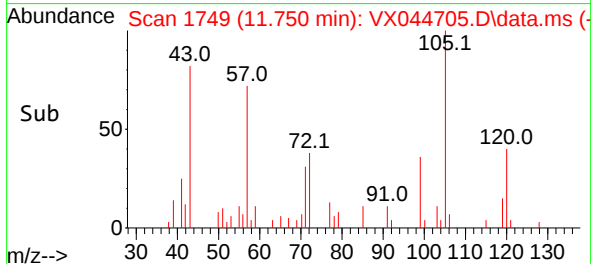
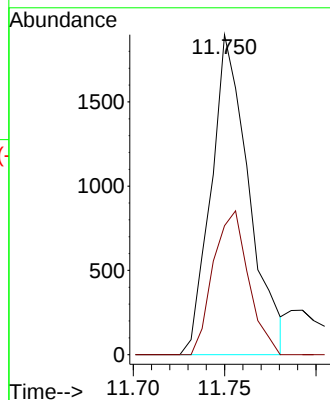
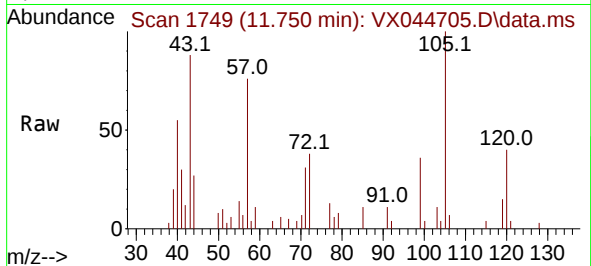




#80
1,2,4-Trimethylbenzene
Concen: 0.339 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

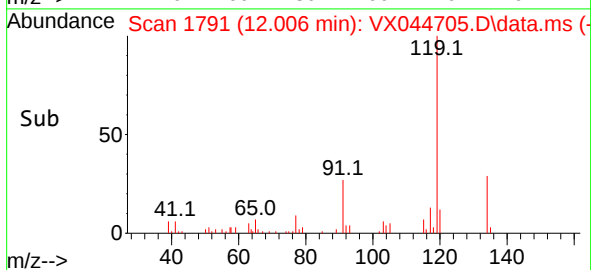
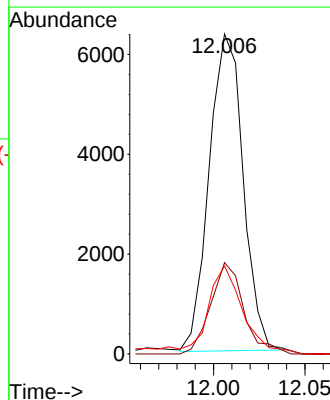
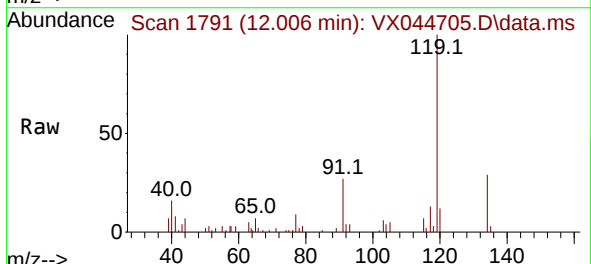
Instrument :
MSVOA_X
ClientSampleId :

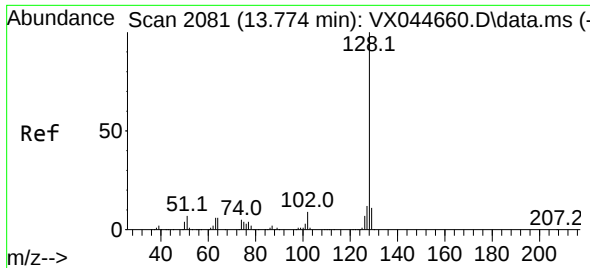
Tgt Ion:105 Resp: 2730
Ion Ratio Lower Upper
105 100
120 42.0 0.0 88.4



#82
p-Isopropyltoluene
Concen: 1.021 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044705.D
Acq: 23 Jan 2025 11:39

Tgt Ion:119 Resp: 8221
Ion Ratio Lower Upper
119 100
134 28.0 0.0 52.2
91 27.9 0.0 50.2





#91

Naphthalene

Concen: 0.245 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

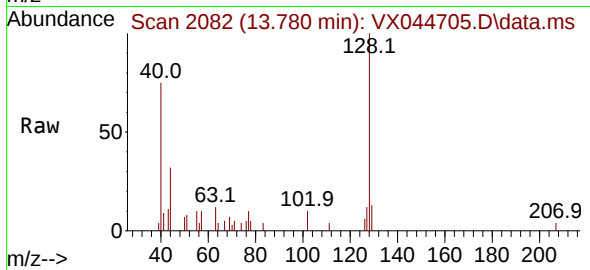
Lab File: VX044705.D

Acq: 23 Jan 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 2313

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 11.8 9.0 13.6

