

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112923\
 Data File : VX039055.D
 Acq On : 29 Nov 2023 13:49
 Operator : JC/MD
 Sample : 05569-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 30 01:38:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

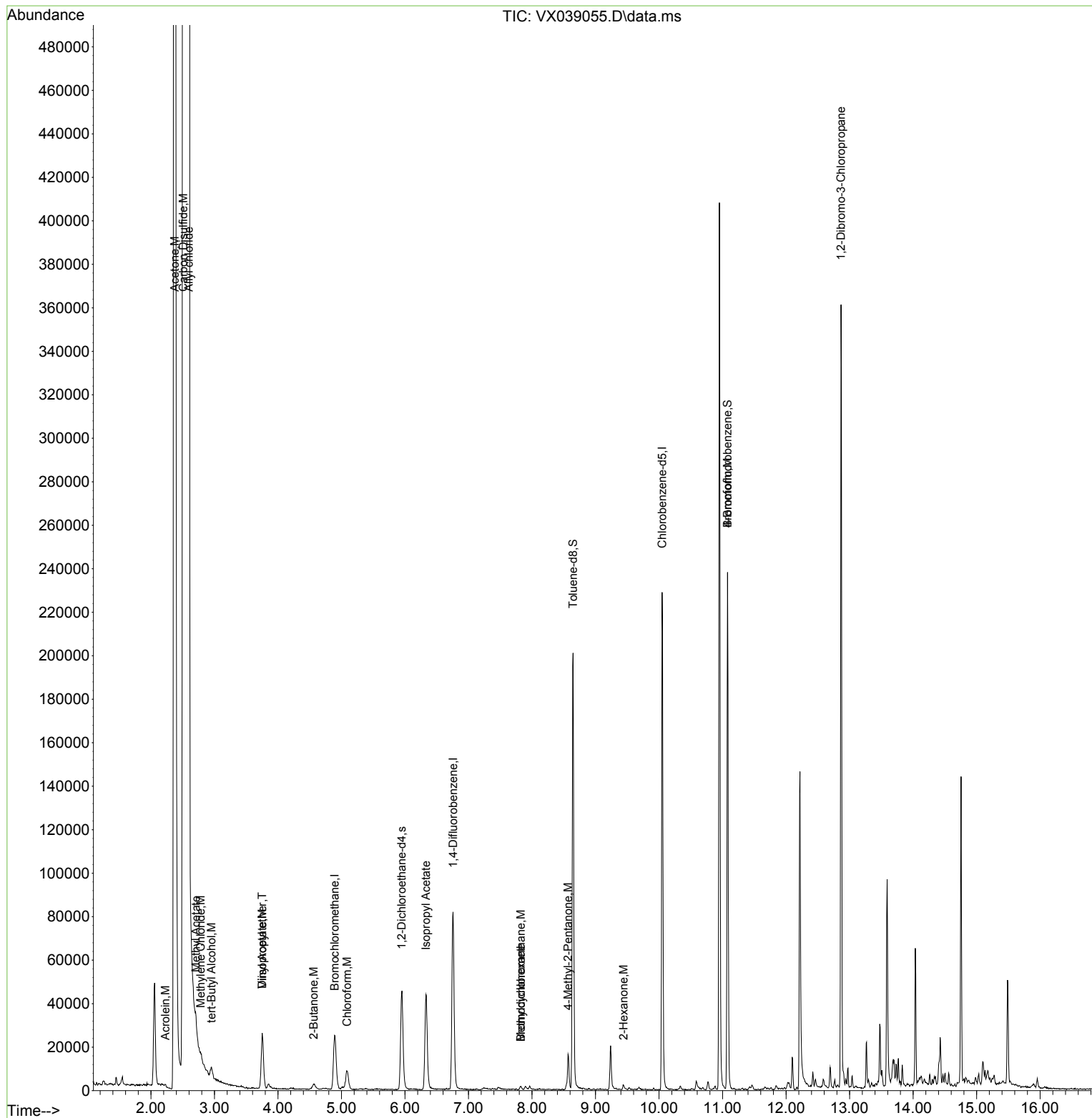
Internal Standards						
1) Bromochloromethane	4.891	128	5927	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84913	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	102600	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	43720	53.919	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 179.733%#		
60) 4-Bromofluorobenzene	11.079	95	65280	29.130	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 97.100%		
63) Toluene-d8	8.647	98	123720	30.500	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.667%		
Target Compounds						
					Qvalue	
12) Methyl Acetate	2.709	43	11518	4.581	ug/l #	82
13) Acrolein	2.227	56	82	0.372	ug/l #	33
15) Acetone	2.374	58	751123	3360.065	ug/l	96
16) Carbon Disulfide	2.508	76	809	0.331	ug/l #	73
17) Allyl chloride	2.593	41	3528518	2204.715	ug/l #	62
18) Methylene Chloride	2.782	84	353	0.369	ug/l #	85
20) Diisopropyl ether	3.751	45	26761	8.787	ug/l #	72
23) tert-Butyl Alcohol	2.953	59	5478	16.090	ug/l #	100
25) Chloroform	5.087	83	10728	6.312	ug/l	87
30) 2-Butanone	4.562	43	1272	0.710	ug/l #	77
38) Methylcyclohexane	7.824	83	1188	0.401	ug/l #	18
41) Bromodichloromethane	7.824	83	1226	0.494	ug/l #	73
42) Vinyl Acetate	3.751	43	14116	3.307	ug/l #	76
44) Isopropyl Acetate	6.330	43	63062	12.974	ug/l	99
56) Bromoform	11.079	173	297	0.218	ug/l #	1
58) 4-Methyl-2-Pentanone	8.568	43	11216	3.605	ug/l	95
59) 2-Hexanone	9.439	43	1373	0.538	ug/l #	91
88) 1,2-Dibromo-3-Chloropr...	12.866	75	8411	11.090	ug/l #	7

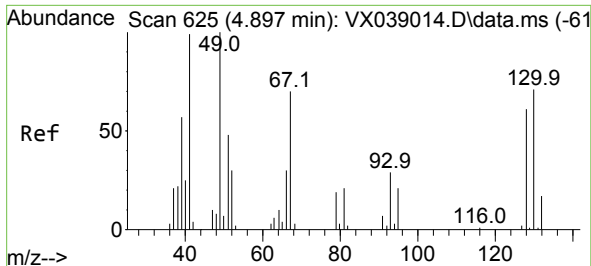
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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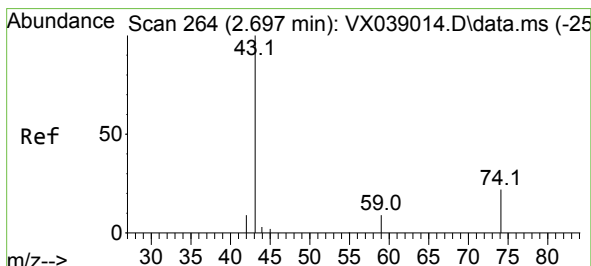
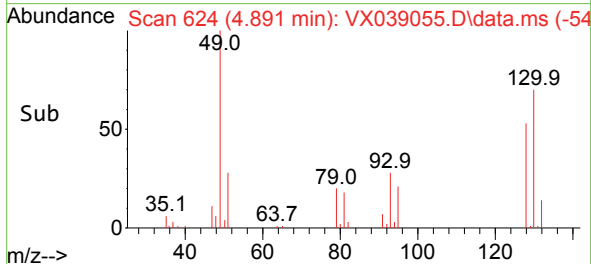
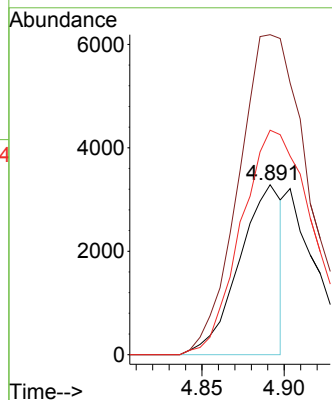
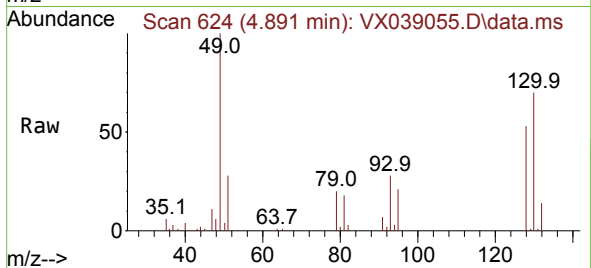




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

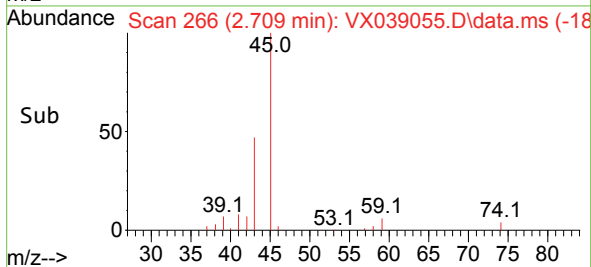
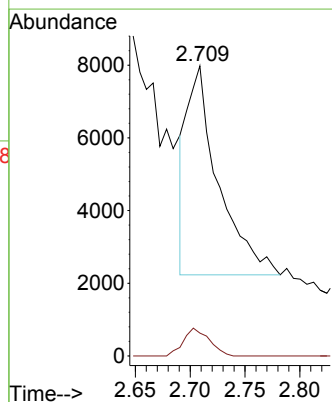
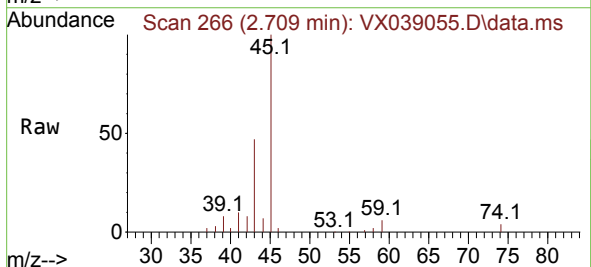
Instrument :
MSVOA_X
ClientSampleId :

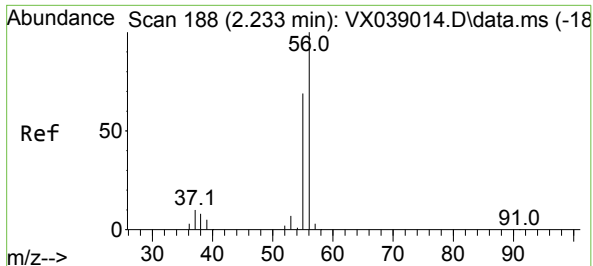
Tgt Ion:128 Resp: 5927
Ion Ratio Lower Upper
128 100
49 317.5 0.0 444.0
130 228.6 0.0 297.8



#12
Methyl Acetate
Concen: 4.581 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.012 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion: 43 Resp: 11518
Ion Ratio Lower Upper
43 100
74 13.4 17.8 26.6#

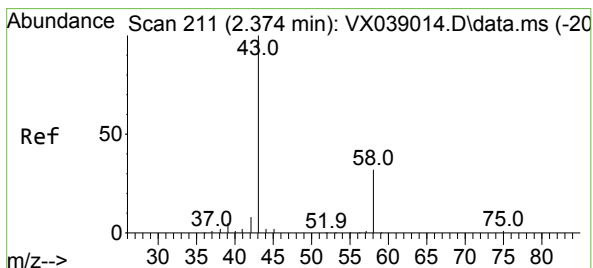
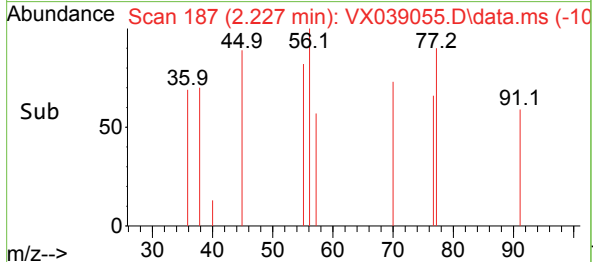
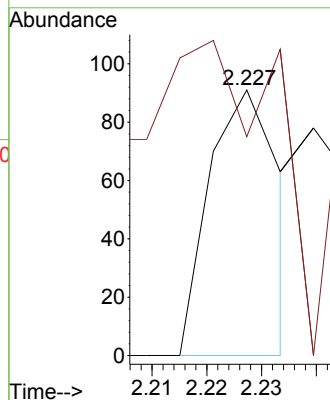
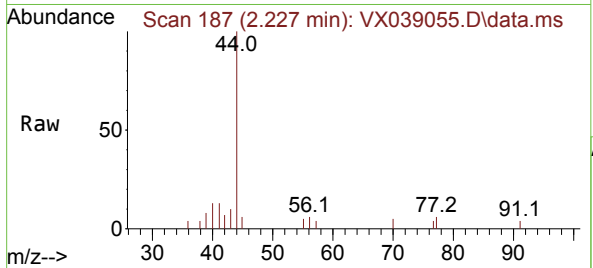




#13
Acrolein
Concen: 0.372 ug/l
RT: 2.227 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

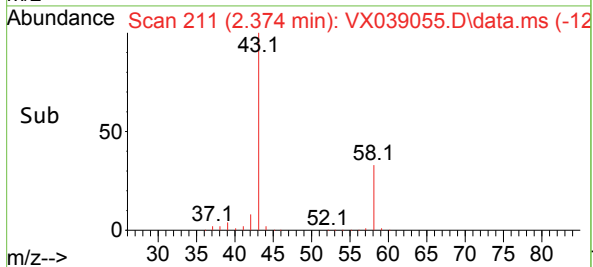
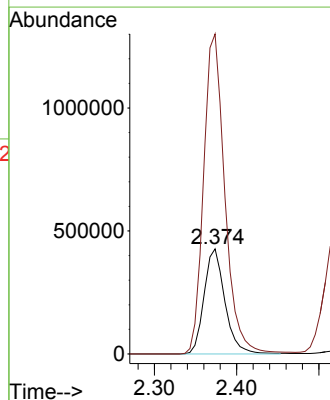
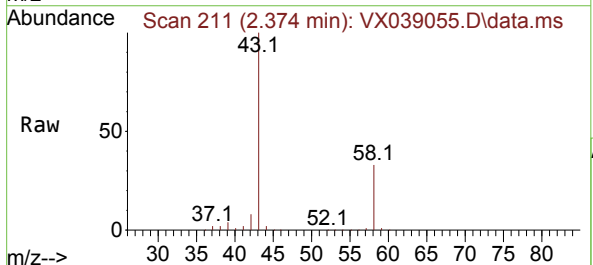
Instrument :
MSVOA_X
ClientSampleId :

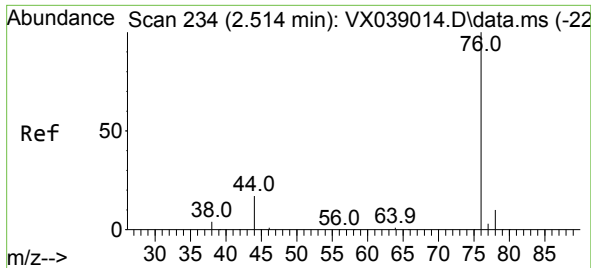
Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 126.8 57.2 85.8#



#15
Acetone
Concen: 3360.065 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

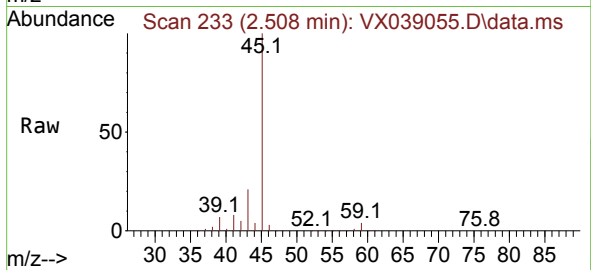
Tgt Ion: 58 Resp: 751123
Ion Ratio Lower Upper
58 100
43 304.2 249.9 374.9



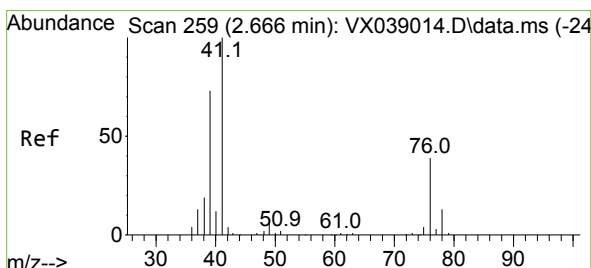
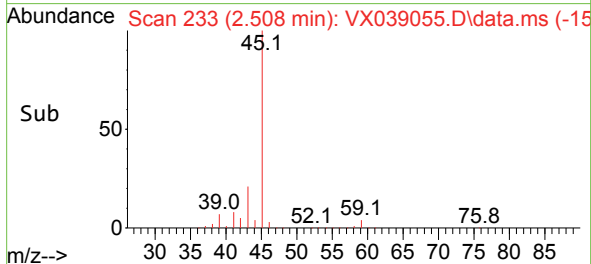
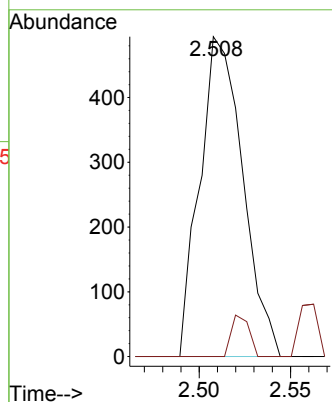


#16
Carbon Disulfide
Concen: 0.331 ug/l
RT: 2.508 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Instrument :
MSVOA_X
ClientSampleId :

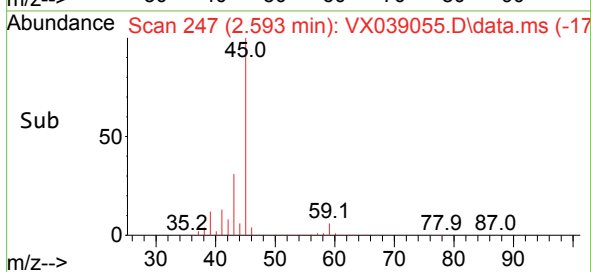
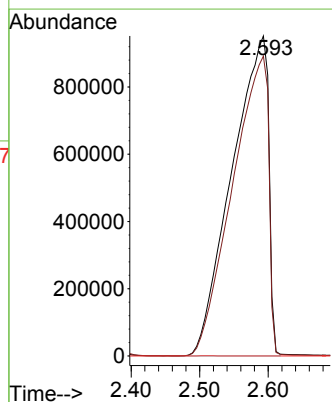
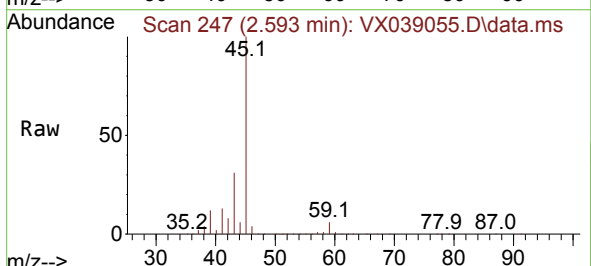


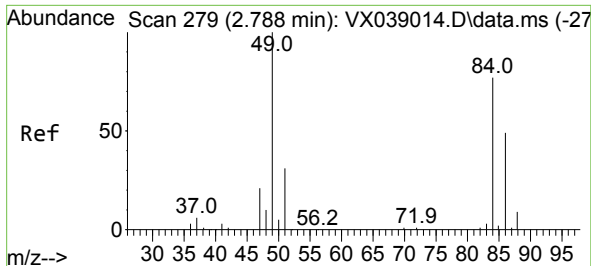
Tgt Ion: 76 Resp: 809
Ion Ratio Lower Upper
76 100
78 0.0 8.0 12.0#



#17
Allyl chloride
Concen: 2204.715 ug/l
RT: 2.593 min Scan# 247
Delta R.T. -0.073 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

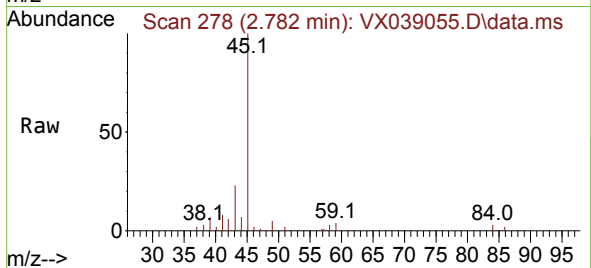
Tgt Ion: 41 Resp: 3528518
Ion Ratio Lower Upper
41 100
39 93.7 36.5 109.5
76 0.0 19.7 59.0#



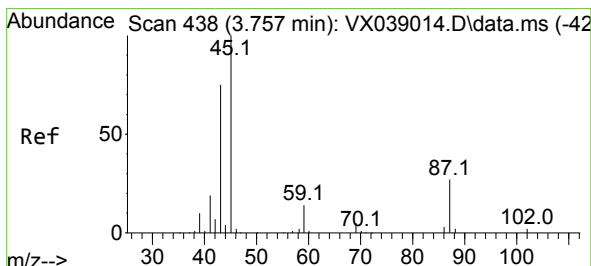
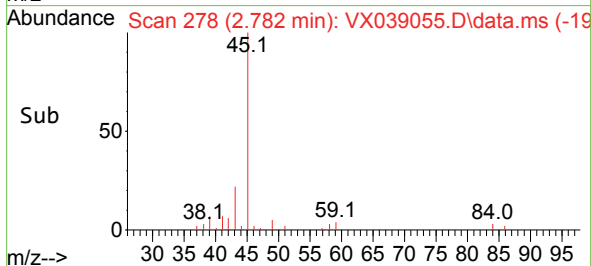
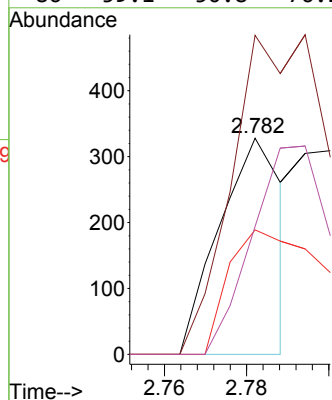


#18
Methylene Chloride
Concen: 0.369 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Instrument :
MSVOA_X
ClientSampleId :

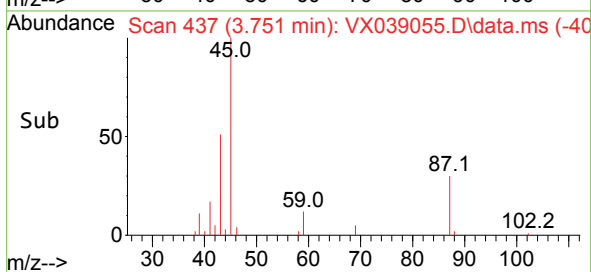
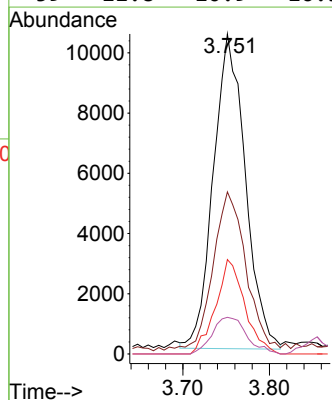
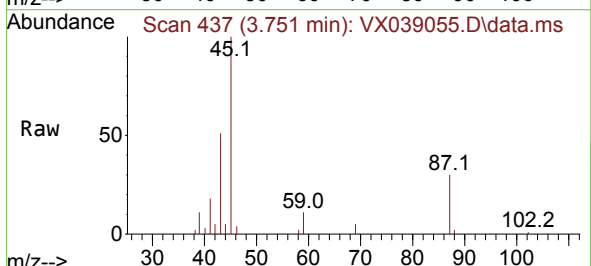


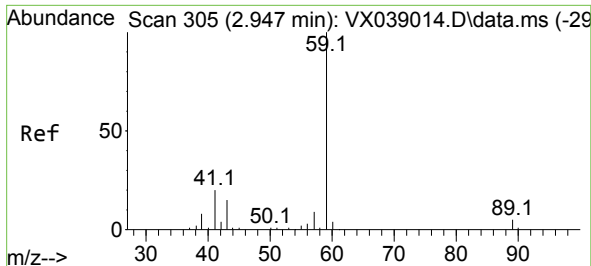
Tgt Ion: 84 Resp: 353
Ion Ratio Lower Upper
84 100
49 147.6 103.8 155.8
51 57.6 31.8 47.6#
86 59.1 50.8 76.2



#20
Diisopropyl ether
Concen: 8.787 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion: 45 Resp: 26761
Ion Ratio Lower Upper
45 100
43 50.1 67.7 101.5#
87 30.4 21.5 32.3
59 11.8 10.9 16.3

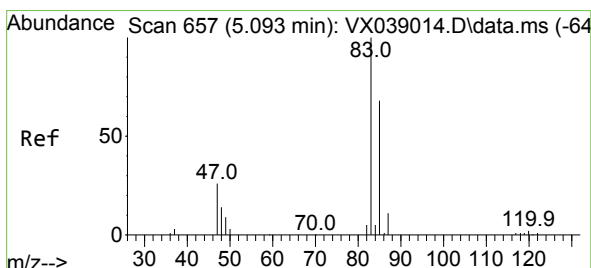
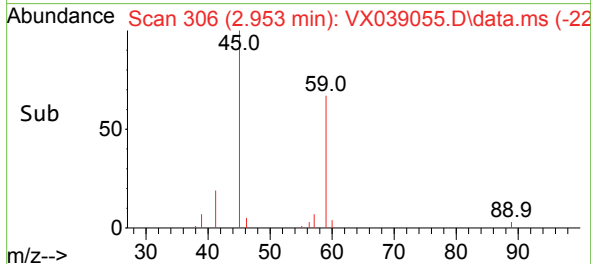
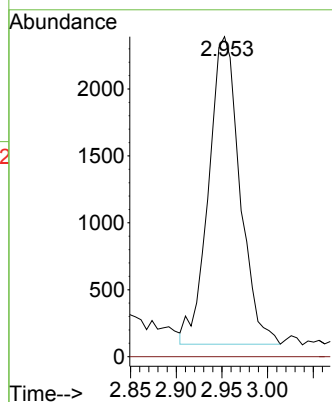
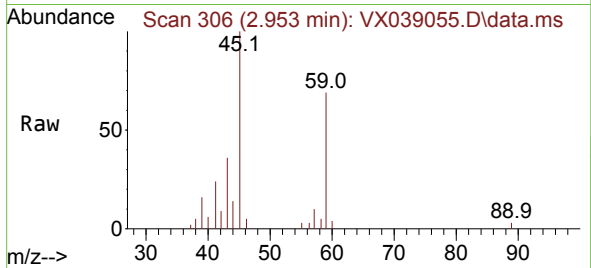




#23
tert-Butyl Alcohol
Concen: 16.090 ug/l
RT: 2.953 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

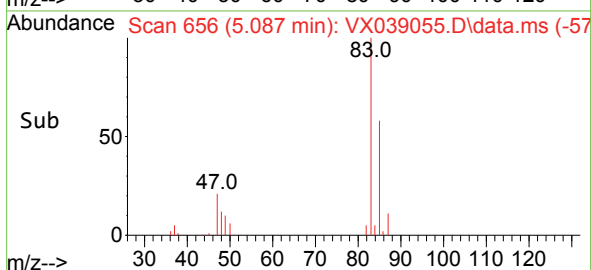
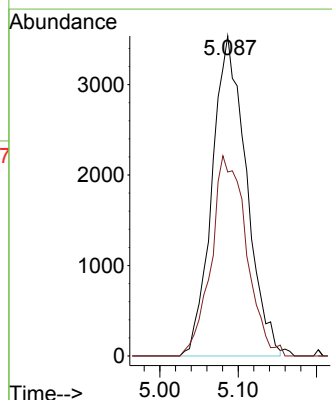
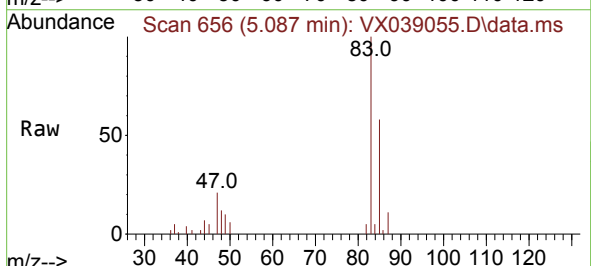
Instrument :
MSVOA_X
ClientSampleId :

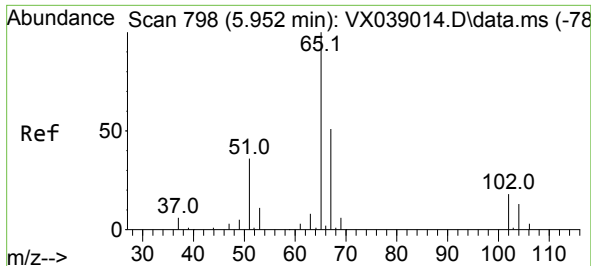
Tgt Ion: 59 Resp: 5478
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 6.312 ug/l
RT: 5.087 min Scan# 656
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion: 83 Resp: 10728
Ion Ratio Lower Upper
83 100
85 57.5 54.6 81.8





#27

1,2-Dichloroethane-d4

Concen: 53.919 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Instrument :

MSVOA_X

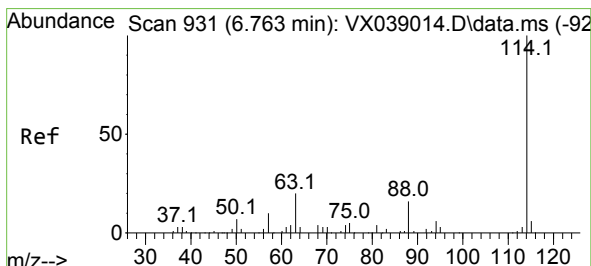
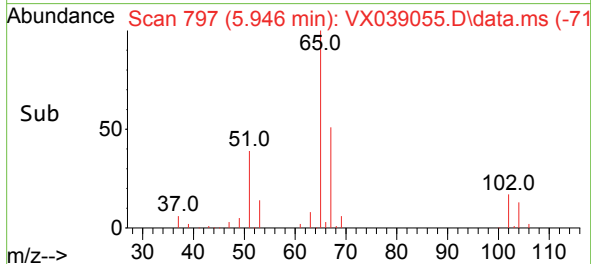
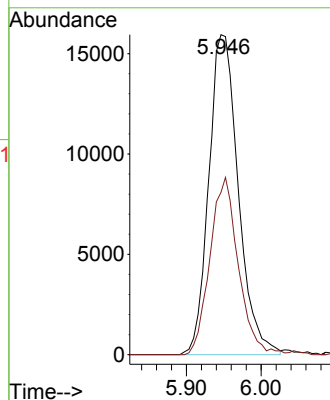
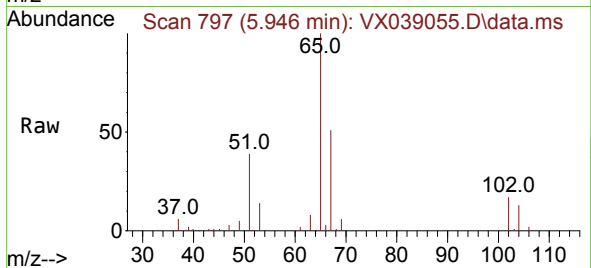
ClientSampleId :

Tgt Ion: 65 Resp: 43720

Ion Ratio Lower Upper

65 100

67 52.5 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.006 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

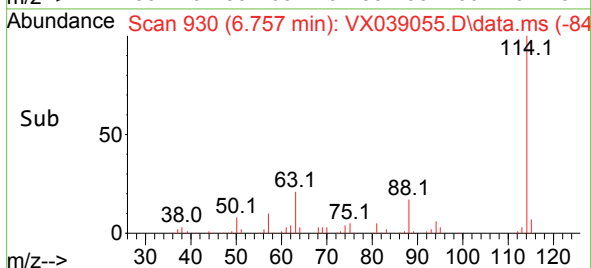
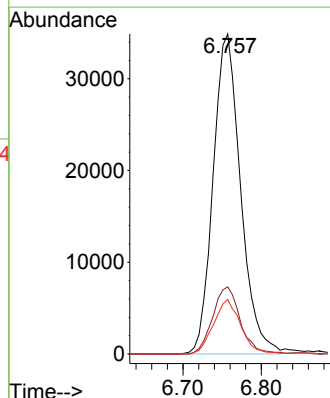
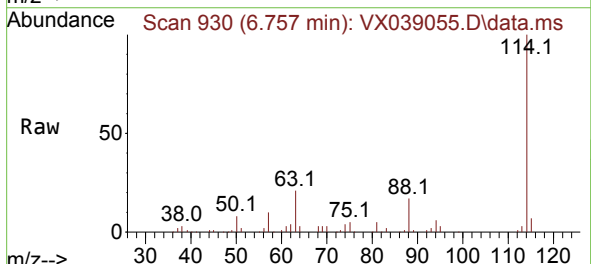
Tgt Ion: 114 Resp: 84913

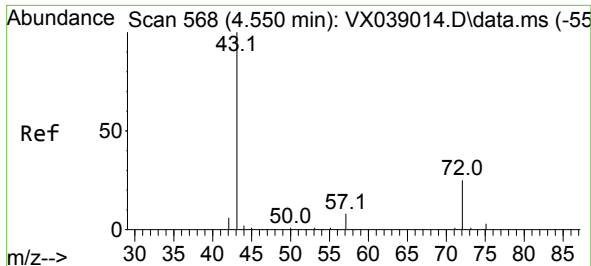
Ion Ratio Lower Upper

114 100

63 21.1 17.0 25.4

88 16.8 12.7 19.1

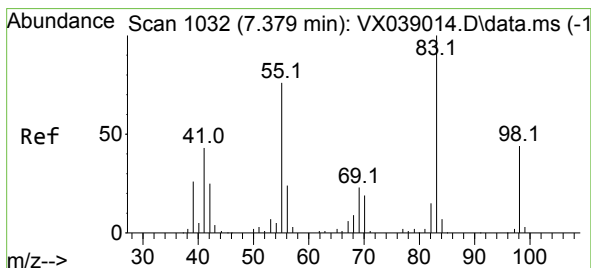
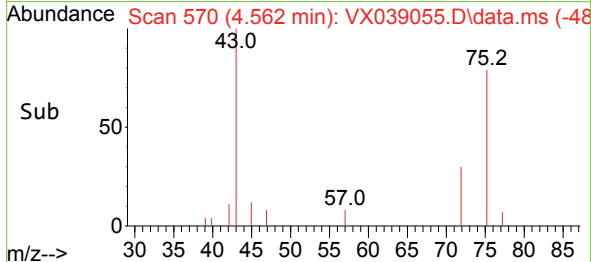
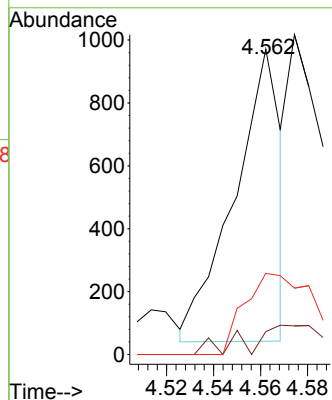
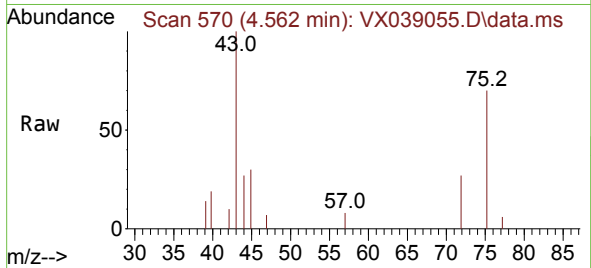




#30
2-Butanone
Concen: 0.710 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.012 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

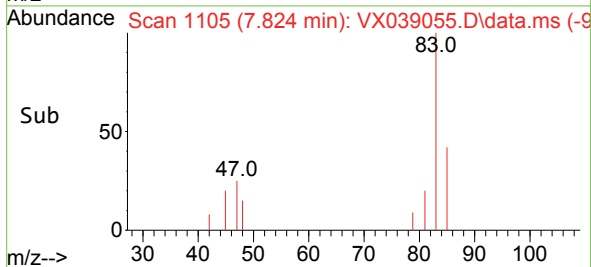
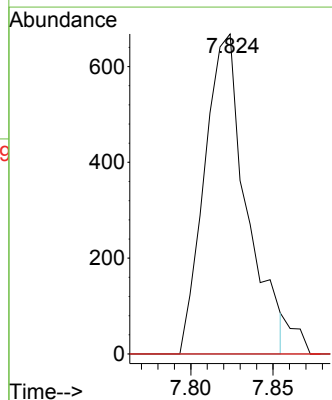
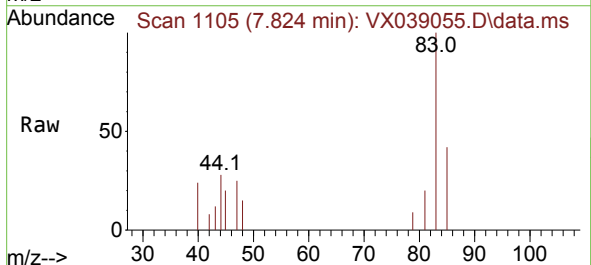
Instrument :
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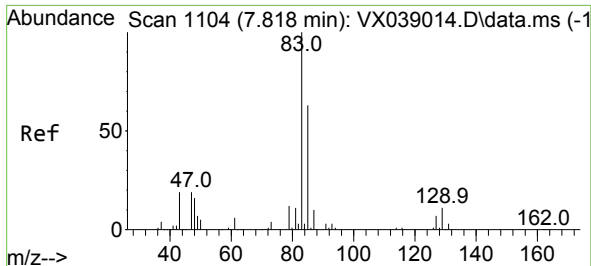
Tgt Ion: 43 Resp: 1272
Ion Ratio Lower Upper
43 100
57 11.6 6.6 10.0#
72 39.5 20.6 31.0#



#38
Methylcyclohexane
Concen: 0.401 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.445 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion: 83 Resp: 1188
Ion Ratio Lower Upper
83 100
55 0.0 38.6 116.0#
98 0.0 22.3 66.8#

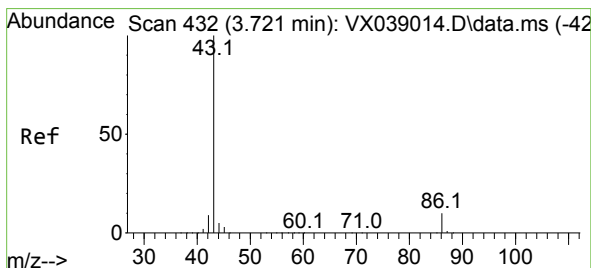
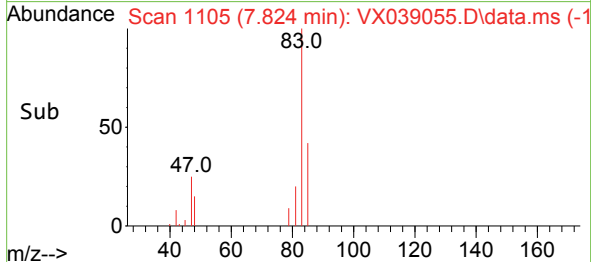
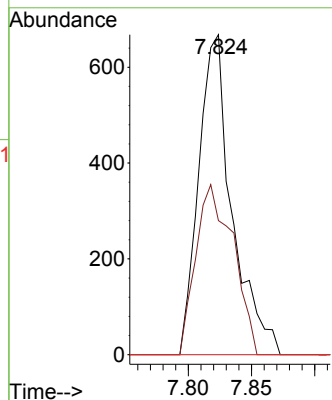
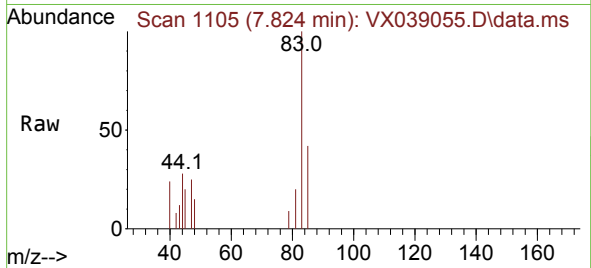




#41
Bromodichloromethane
Concen: 0.494 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

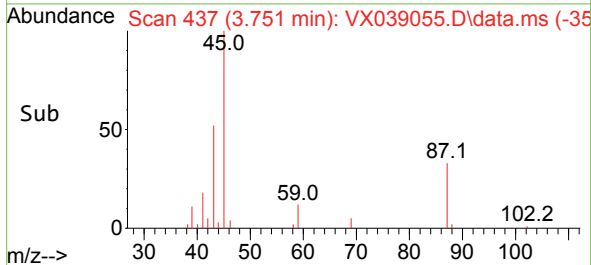
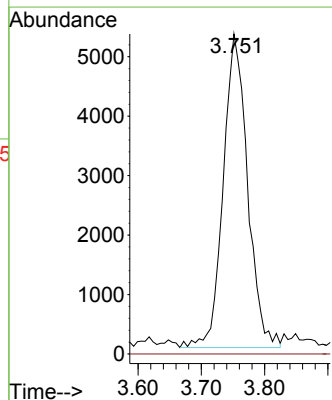
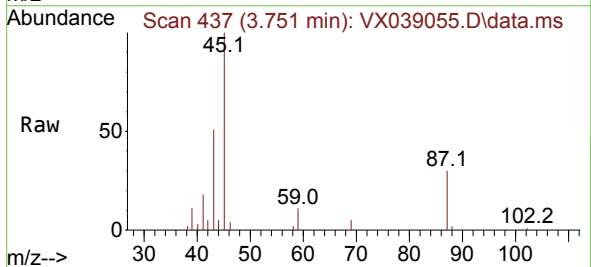
Instrument :
MSVOA_X
ClientSampleId :

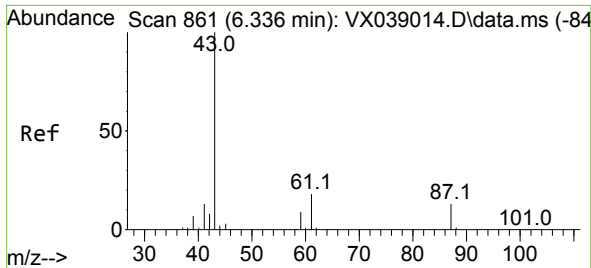
Tgt Ion: 83 Resp: 1226
Ion Ratio Lower Upper
83 100
85 41.9 50.8 76.2#
127 0.0 5.9 8.9#



#42
Vinyl Acetate
Concen: 3.307 ug/l
RT: 3.751 min Scan# 437
Delta R.T. 0.031 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion: 43 Resp: 14116
Ion Ratio Lower Upper
43 100
86 0.0 6.7 10.1#

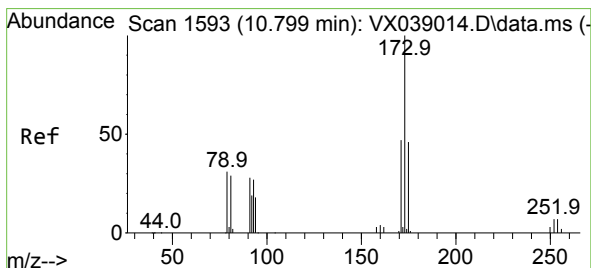
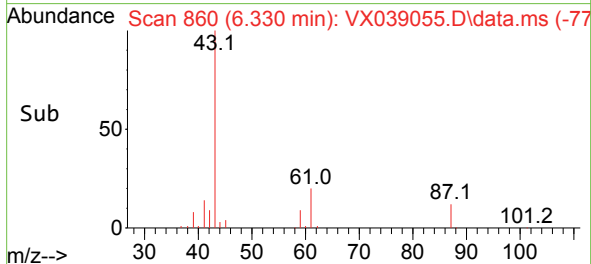
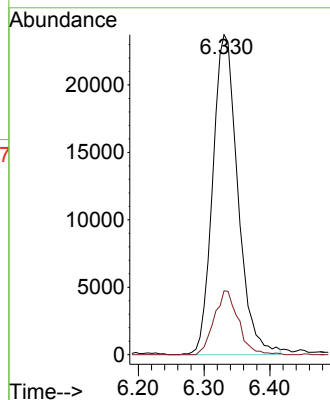
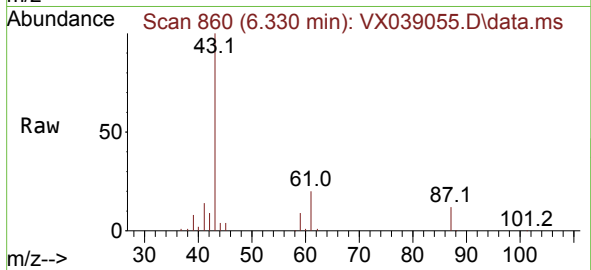




#44
Isopropyl Acetate
Concen: 12.974 ug/l
RT: 6.330 min Scan# 861
Delta R.T. -0.006 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

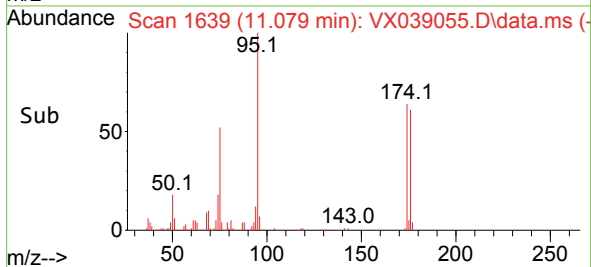
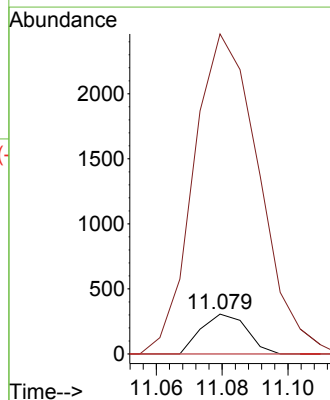
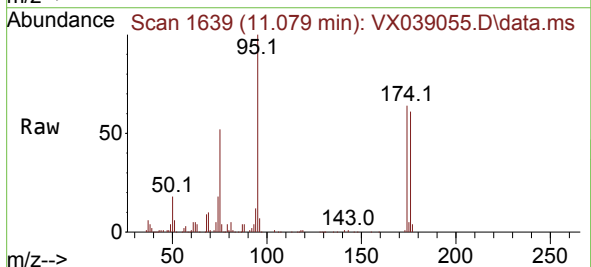
Instrument :
MSVOA_X
ClientSampleId :

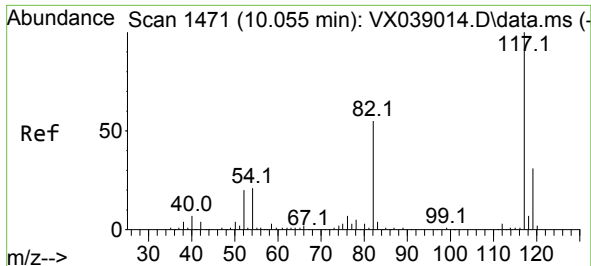
Tgt Ion: 43 Resp: 63062
Ion Ratio Lower Upper
43 100
61 19.1 15.6 23.4



#56
Bromoform
Concen: 0.218 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion:173 Resp: 297
Ion Ratio Lower Upper
173 100
175 1147.8 37.6 56.4#
254 0.0 5.8 8.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1471

Delta R.T. -0.006 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

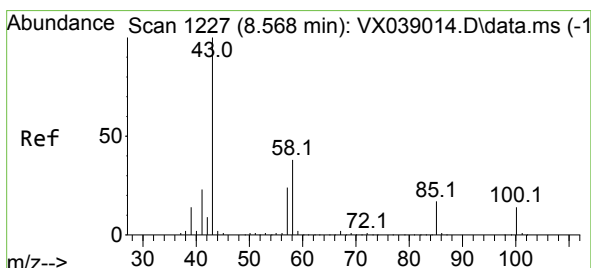
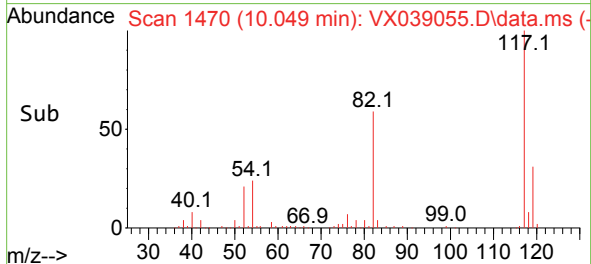
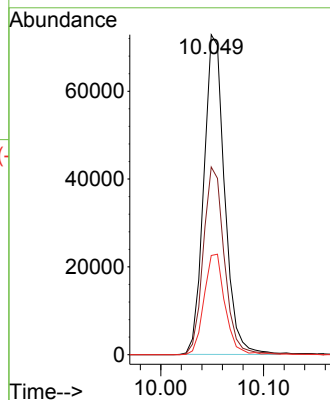
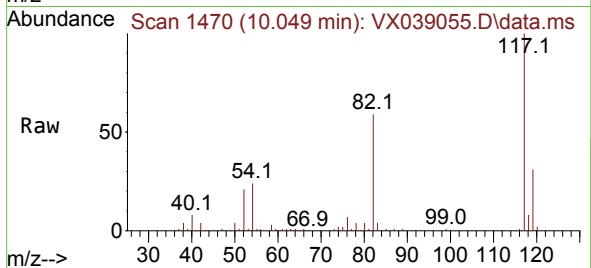
Tgt Ion:117 Resp: 102600

Ion Ratio Lower Upper

117 100

82 59.7 47.0 70.6

119 31.5 25.2 37.8



#58

4-Methyl-2-Pentanone

Concen: 3.605 ug/l

RT: 8.568 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

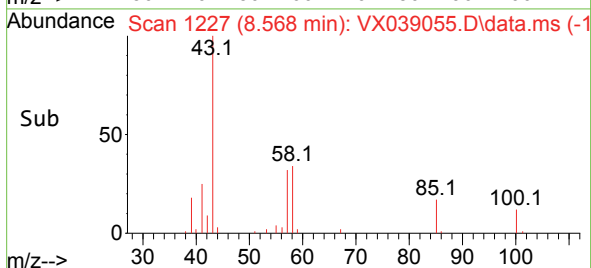
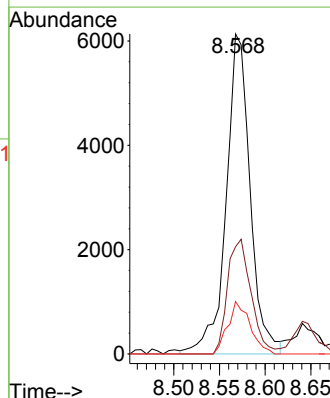
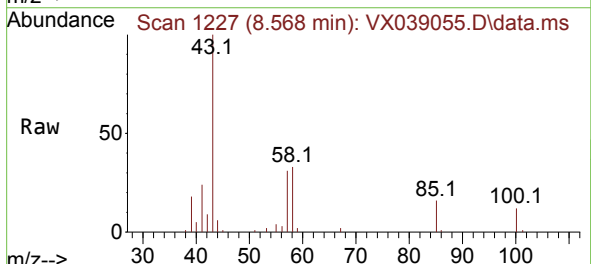
Tgt Ion: 43 Resp: 11216

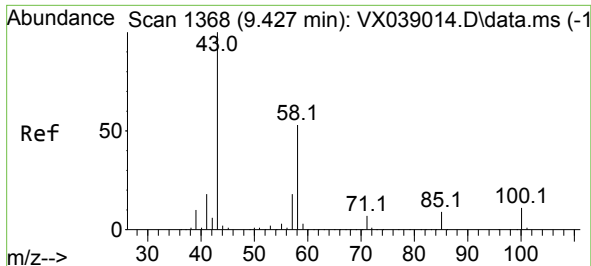
Ion Ratio Lower Upper

43 100

58 35.0 30.1 45.1

85 15.2 13.9 20.9





#59

2-Hexanone

Concen: 0.538 ug/l

RT: 9.439 min Scan# 1

Delta R.T. 0.012 min

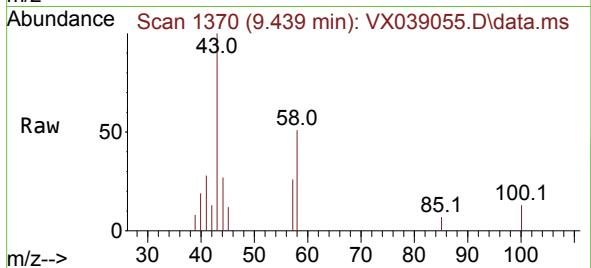
Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :



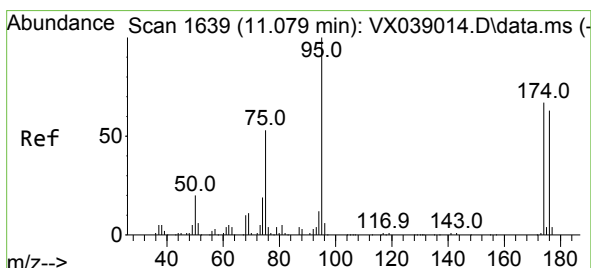
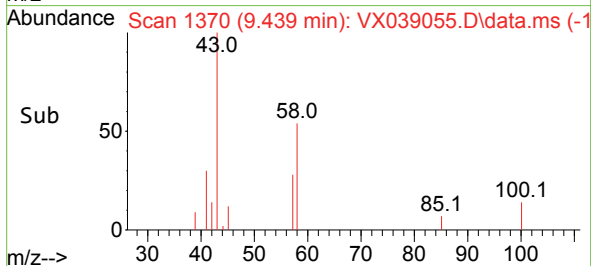
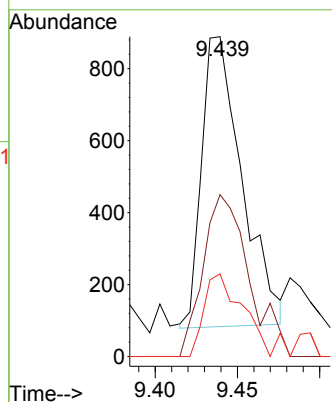
Tgt Ion: 43 Resp: 1373

Ion Ratio Lower Upper

43 100

58 57.5 42.7 64.1

57 27.0 14.8 22.2#



#60

4-Bromofluorobenzene

Concen: 29.130 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

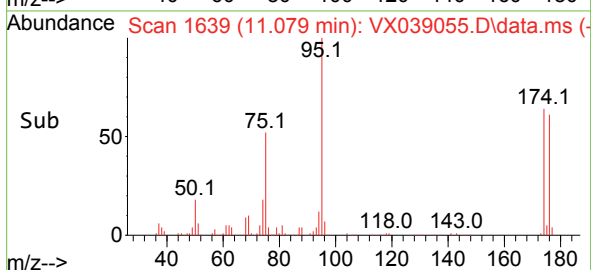
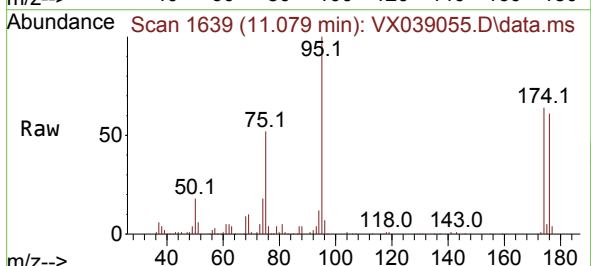
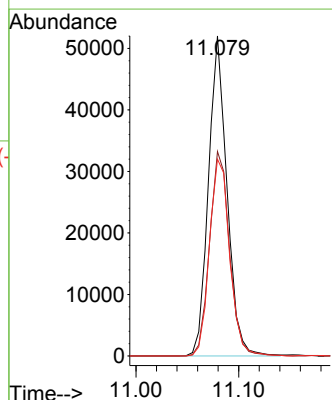
Tgt Ion: 95 Resp: 65280

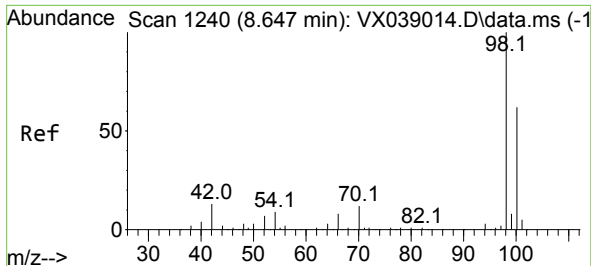
Ion Ratio Lower Upper

95 100

174 68.6 55.4 83.2

176 66.8 52.6 78.8

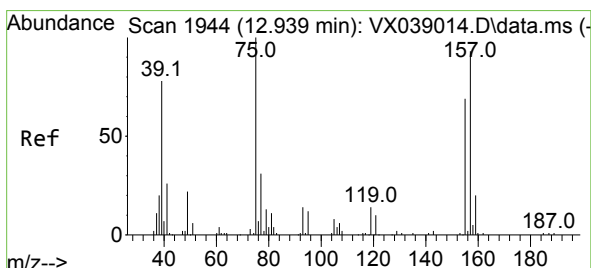
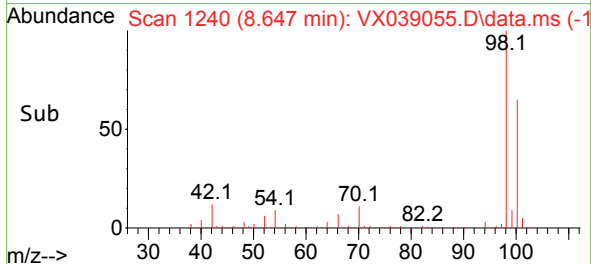
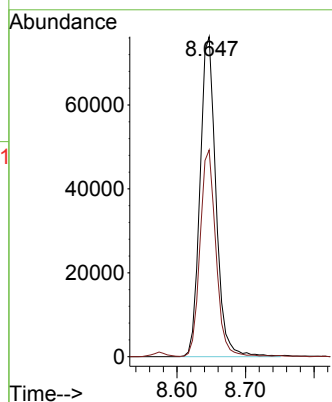
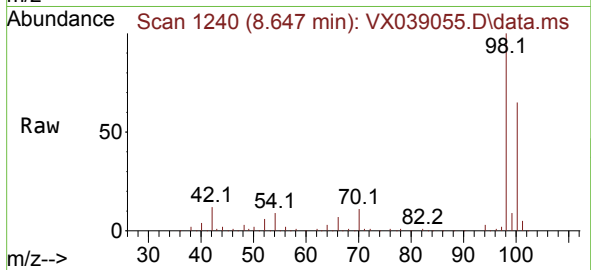




#63
Toluene-d8
Concen: 30.500 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 98 Resp: 123720
Ion Ratio Lower Upper
98 100
100 64.0 51.0 76.4



#88
1,2-Dibromo-3-Chloropropane
Concen: 11.090 ug/l
RT: 12.866 min Scan# 1932
Delta R.T. -0.073 min
Lab File: VX039055.D
Acq: 29 Nov 2023 13:49

Tgt Ion: 75 Resp: 8411
Ion Ratio Lower Upper
75 100
155 0.0 58.2 87.4#
157 0.0 76.5 114.7#

