

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032224\
 Data File : VX040780.D
 Acq On : 22 Mar 2024 15:06
 Operator : JC/MD
 Sample : P1836-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240308028-05

Quant Time: Mar 23 05:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

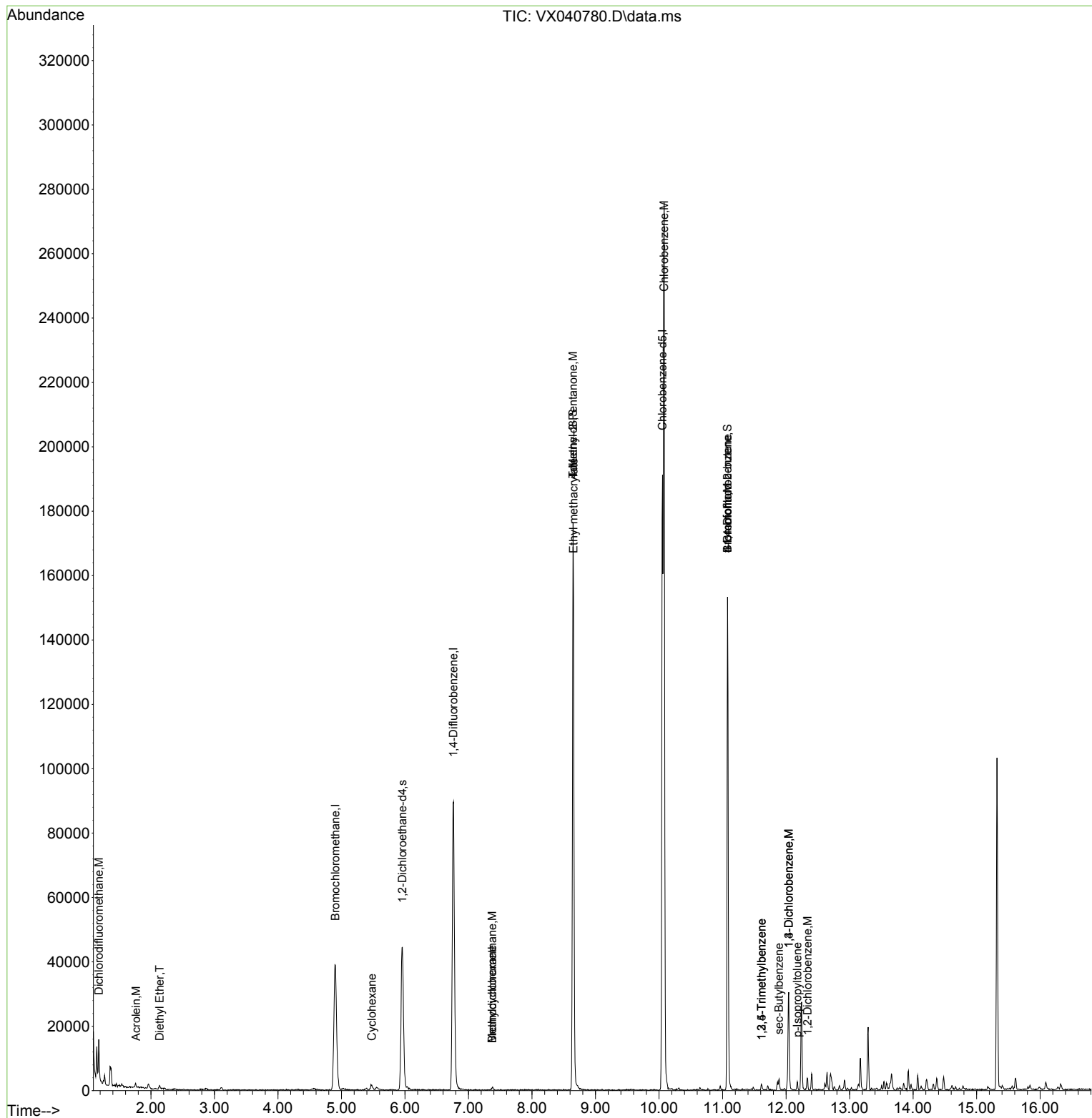
Internal Standards						
1) Bromochloromethane	4.904	128	15388	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	85605	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	75181	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44466	28.933	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.433%
60) 4-Bromofluorobenzene	11.079	95	37611	29.165	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.233%
63) Toluene-d8	8.647	98	100486	30.245	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	240	0.230	ug/l #	41
8) Diethyl Ether	2.136	74	297	0.497	ug/l	41
13) Acrolein	1.764	56	74	0.260	ug/l #	1
26) Cyclohexane	5.477	56	453	0.288	ug/l #	7
38) Methylcyclohexane	7.373	83	410	0.257	ug/l #	51
41) Bromodichloromethane	7.373	83	410	0.258	ug/l #	25
51) Ethyl methacrylate	8.653	69	389	0.232	ug/l	85
56) Bromoform	11.079	173	339	0.394	ug/l #	1
58) 4-Methyl-2-Pentanone	8.647	43	538	0.321	ug/l #	1
64) Chlorobenzene	10.079	112	111223	43.949	ug/l	98
76) 1,3,5-Trimethylbenzene	11.616	105	1071	0.265	ug/l	73
77) t-1,4-Dichloro-2-butene	11.079	75	22076	49.107	ug/l #	12
80) 1,2,4-Trimethylbenzene	11.616	105	1071	0.269	ug/l	77
81) sec-Butylbenzene	11.890	105	1949	0.392	ug/l	97
82) p-Isopropyltoluene	12.177	119	1238	0.304	ug/l	90
83) 1,3-Dichlorobenzene	12.043	146	9182	4.347	ug/l	95
84) 1,4-Dichlorobenzene	12.043	146	9182	4.250	ug/l	97
87) 1,2-Dichlorobenzene	12.341	146	914	0.445	ug/l	90

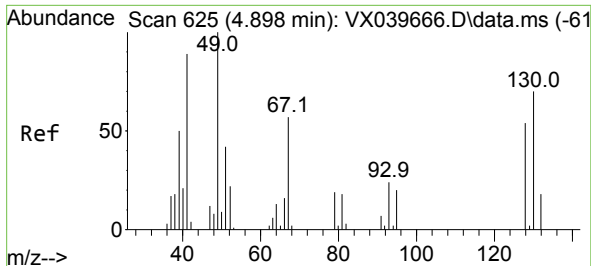
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032224\
Data File : VX040780.D
Acq On : 22 Mar 2024 15:06
Operator : JC/MD
Sample : P1836-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
240308028-05

Quant Time: Mar 23 05:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Mar 05 13:21:29 2024
Response via : Initial Calibration

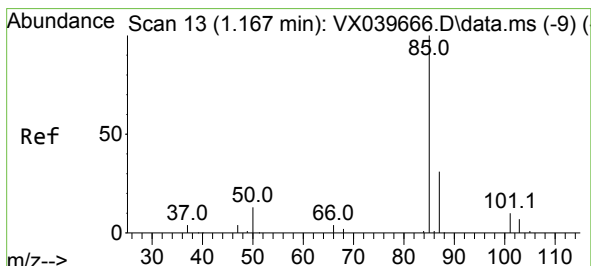
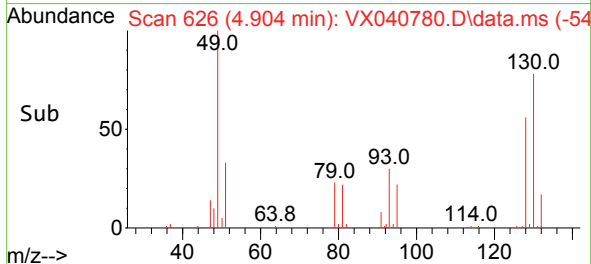
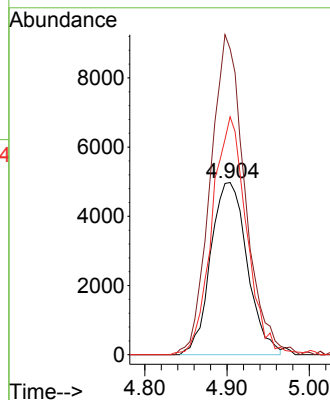
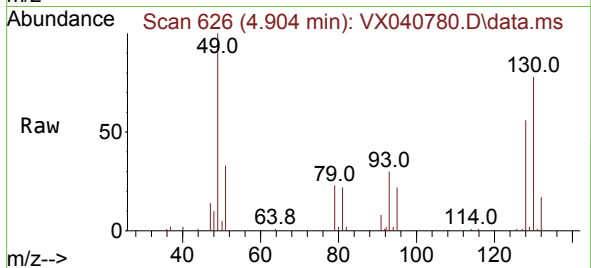




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

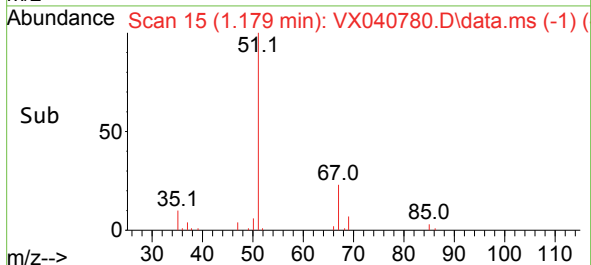
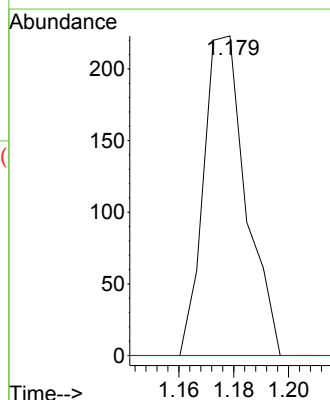
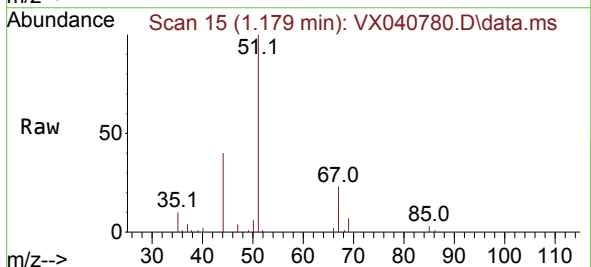
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

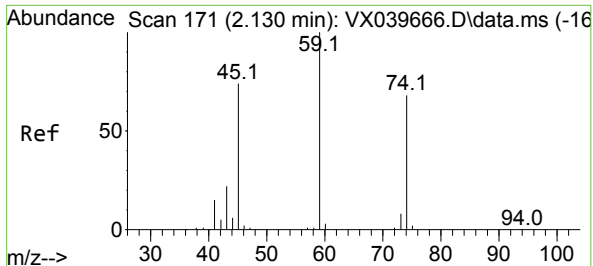
Tgt Ion:128 Resp: 15388
Ion Ratio Lower Upper
128 100
49 174.5 0.0 444.0
130 128.9 0.0 297.8



#2
Dichlorodifluoromethane
Concen: 0.230 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.012 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion: 85 Resp: 240
Ion Ratio Lower Upper
85 100
87 0.0 16.7 50.1#

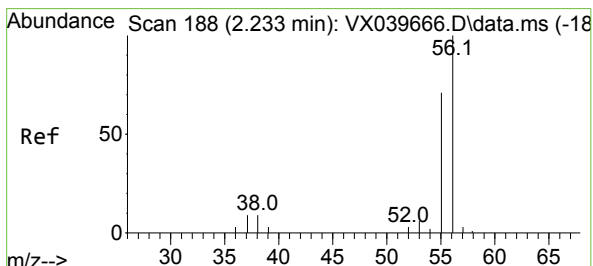
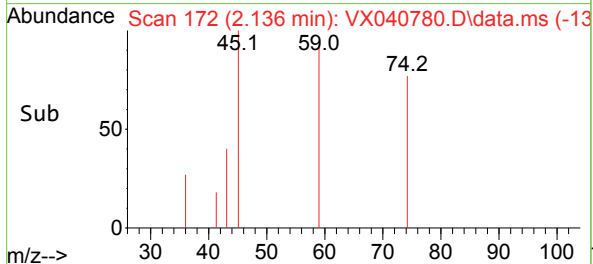
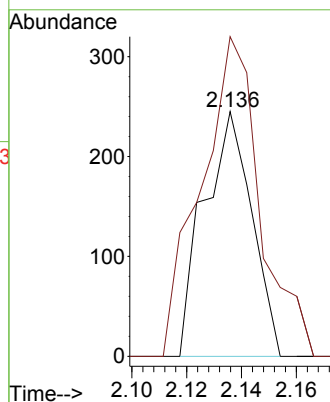
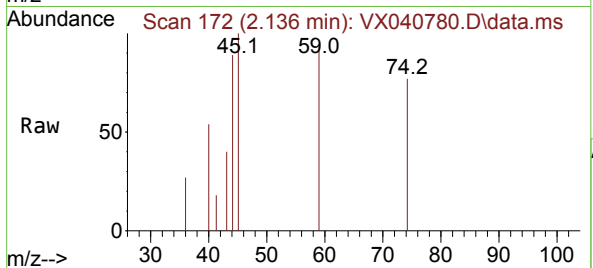




#8
Diethyl Ether
Concen: 0.497 ug/l
RT: 2.136 min Scan# 111
Delta R.T. 0.006 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

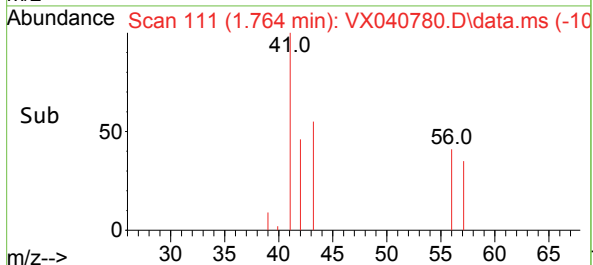
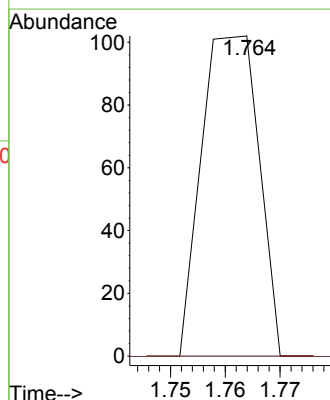
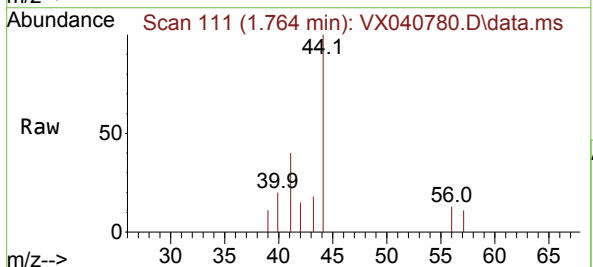
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

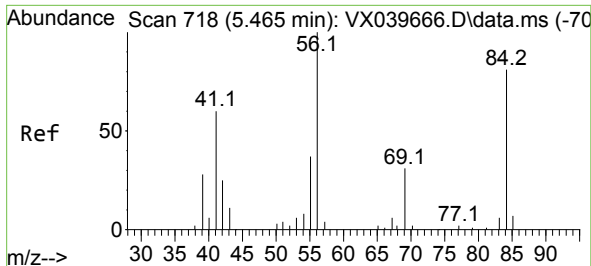
Tgt Ion: 74 Resp: 297
Ion Ratio Lower Upper
74 100
45 162.0 20.5 184.5



#13
Acrolein
Concen: 0.260 ug/l
RT: 1.764 min Scan# 111
Delta R.T. -0.469 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion: 56 Resp: 74
Ion Ratio Lower Upper
56 100
55 571.6 57.2 85.8#

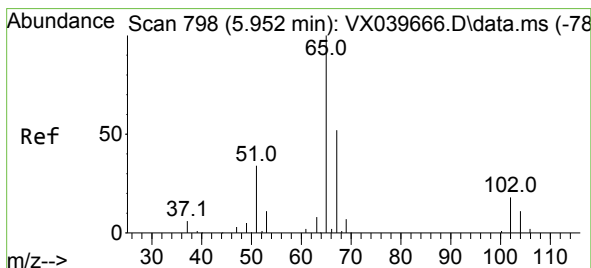
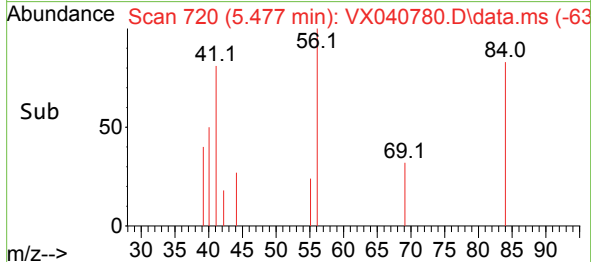
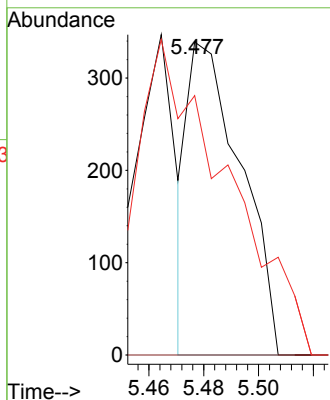
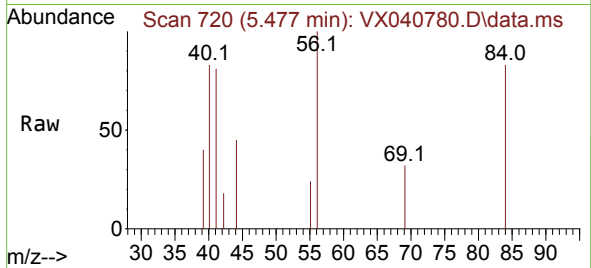




#26
Cyclohexane
Concen: 0.288 ug/l
RT: 5.477 min Scan# 718
Delta R.T. 0.012 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

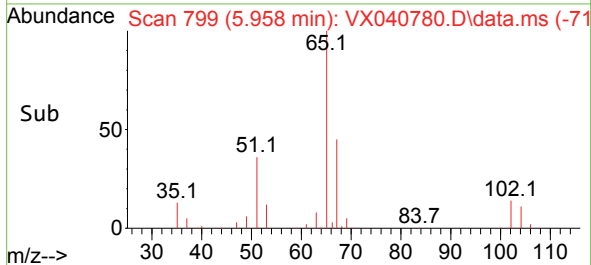
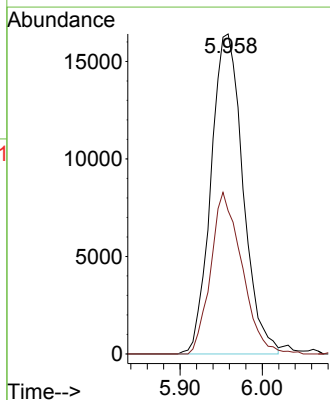
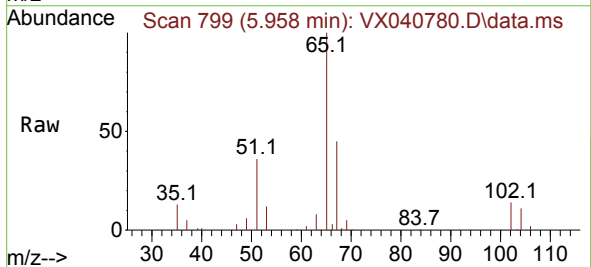
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

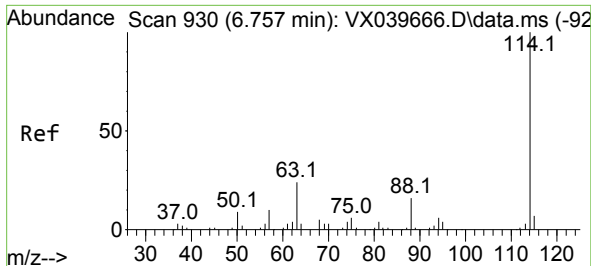
Tgt Ion: 56 Resp: 453
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 0.0 67.2 100.8#



#27
1,2-Dichloroethane-d4
Concen: 28.933 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion: 65 Resp: 44466
Ion Ratio Lower Upper
65 100
67 49.2 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX040780.D

Acq: 22 Mar 2024 15:06

Instrument :

MSVOA_X

ClientSampleId :

240308028-05

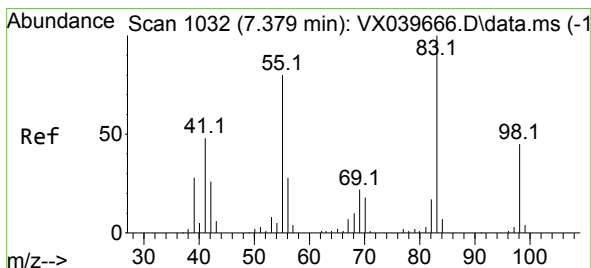
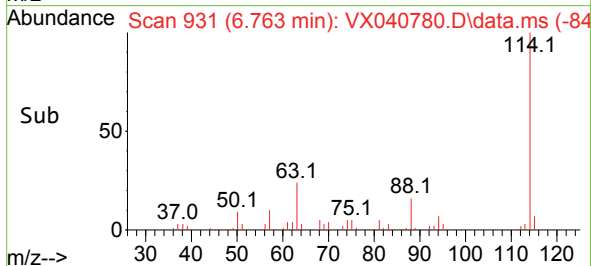
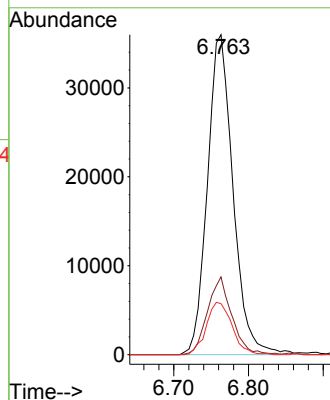
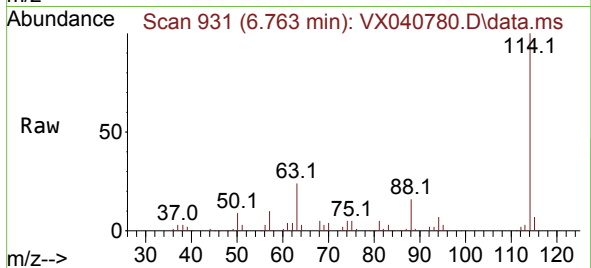
Tgt Ion:114 Resp: 85605

Ion Ratio Lower Upper

114 100

63 23.0 17.0 25.4

88 16.4 12.7 19.1



#38

Methylcyclohexane

Concen: 0.257 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.006 min

Lab File: VX040780.D

Acq: 22 Mar 2024 15:06

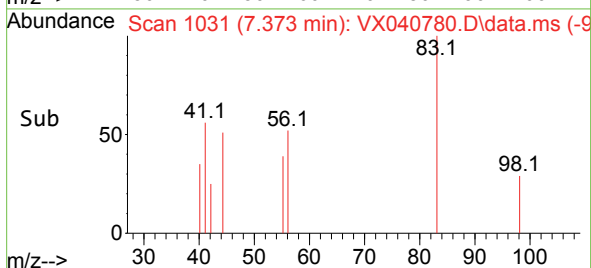
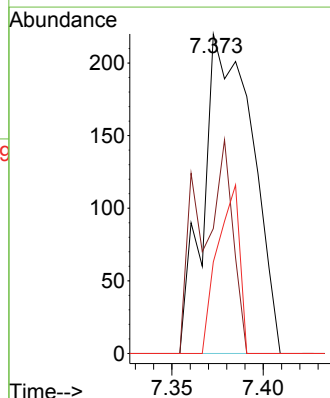
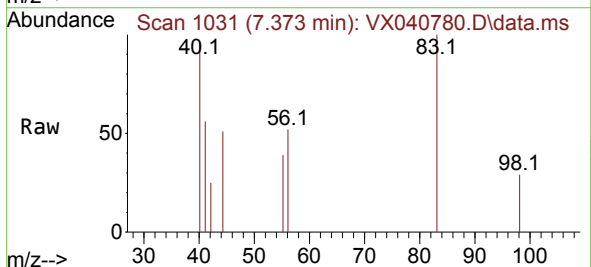
Tgt Ion: 83 Resp: 410

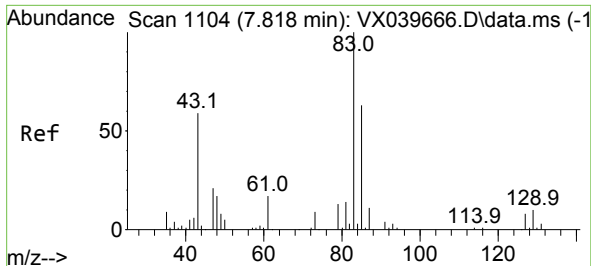
Ion Ratio Lower Upper

83 100

55 26.6 38.6 116.0#

98 24.1 22.3 66.8

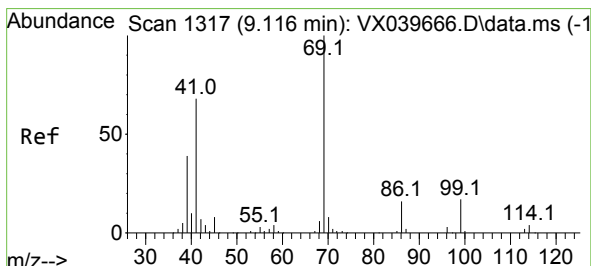
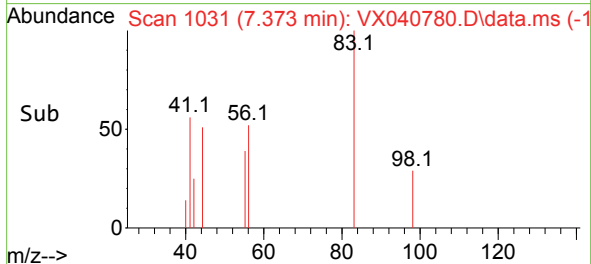
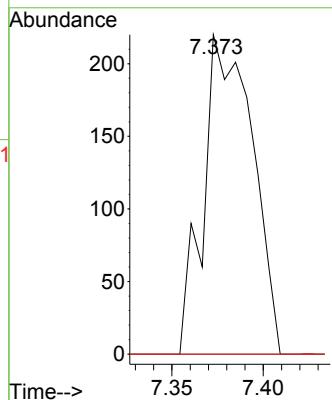
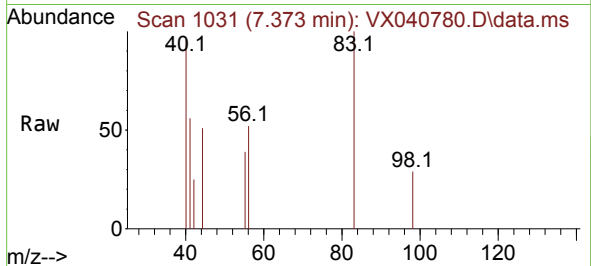




#41
 Bromodichloromethane
 Concen: 0.258 ug/l
 RT: 7.373 min Scan# 1104
 Delta R.T. -0.445 min
 Lab File: VX040780.D
 Acq: 22 Mar 2024 15:06

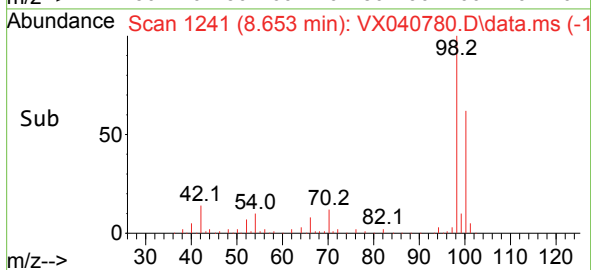
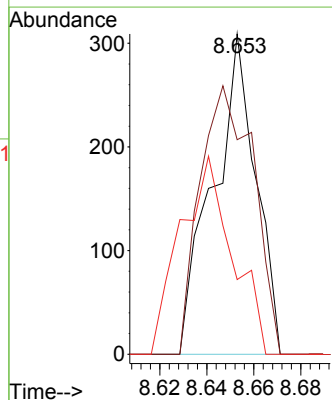
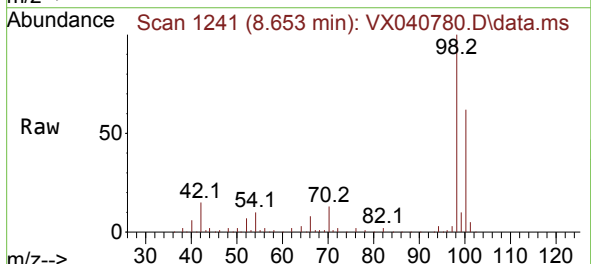
Instrument :
 MSVOA_X
 ClientSampleId :
 240308028-05

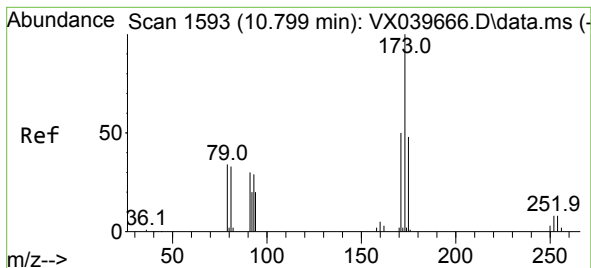
Tgt Ion: 83 Resp: 410
 Ion Ratio Lower Upper
 83 100
 85 0.0 50.8 76.2#
 127 0.0 5.9 8.9#



#51
 Ethyl methacrylate
 Concen: 0.232 ug/l
 RT: 8.653 min Scan# 1241
 Delta R.T. -0.463 min
 Lab File: VX040780.D
 Acq: 22 Mar 2024 15:06

Tgt Ion: 69 Resp: 389
 Ion Ratio Lower Upper
 69 100
 41 67.0 36.2 108.6
 39 23.3 21.1 63.4





#56

Bromoform

Concen: 0.394 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

Lab File: VX040780.D

Acq: 22 Mar 2024 15:06

Instrument :

MSVOA_X

ClientSampleId :

240308028-05

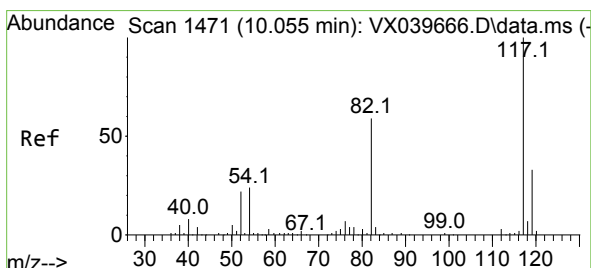
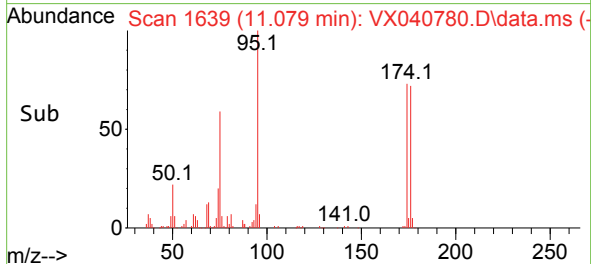
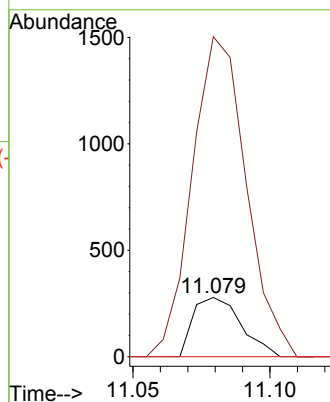
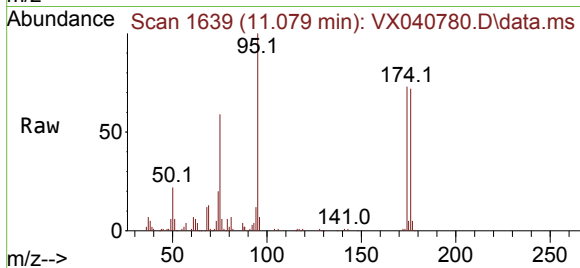
Tgt Ion:173 Resp: 339

Ion Ratio Lower Upper

173 100

175 609.1 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX040780.D

Acq: 22 Mar 2024 15:06

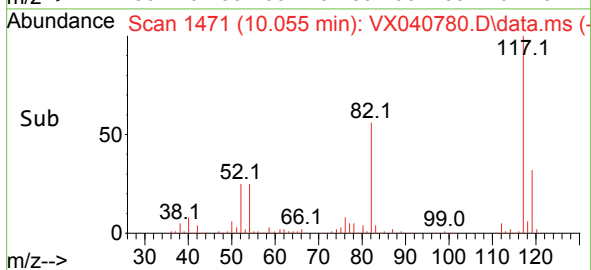
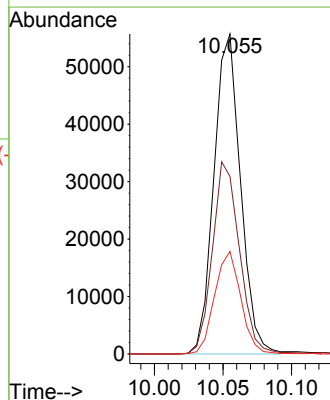
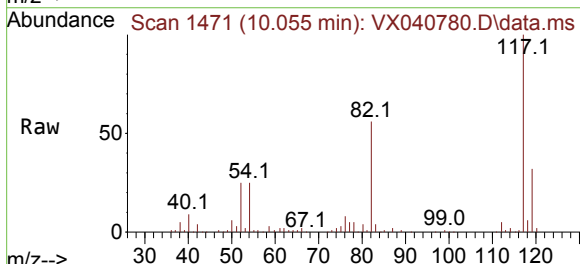
Tgt Ion:117 Resp: 75181

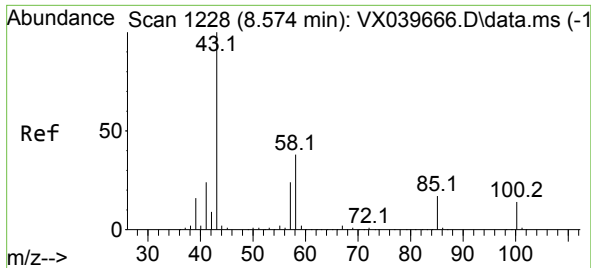
Ion Ratio Lower Upper

117 100

82 61.0 47.0 70.6

119 31.7 25.2 37.8

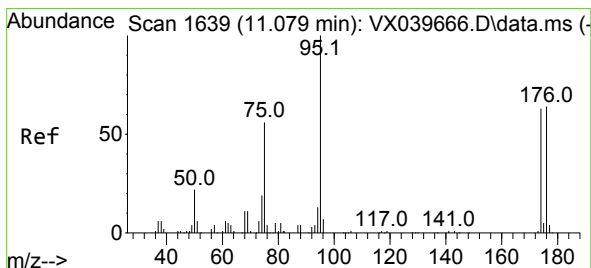
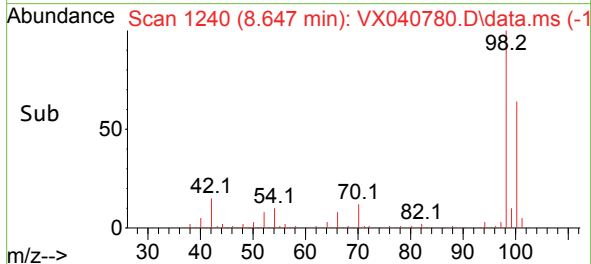
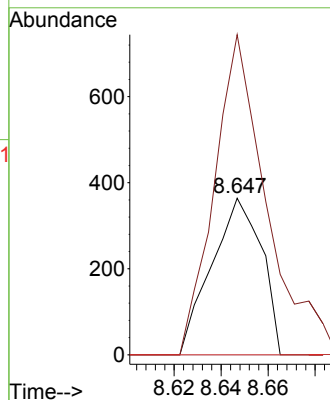
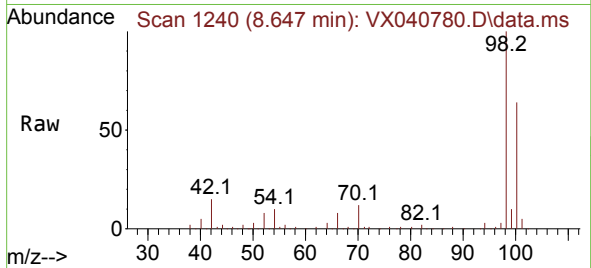




#58
4-Methyl-2-Pentanone
Concen: 0.321 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

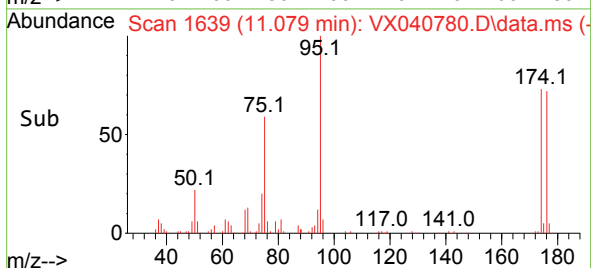
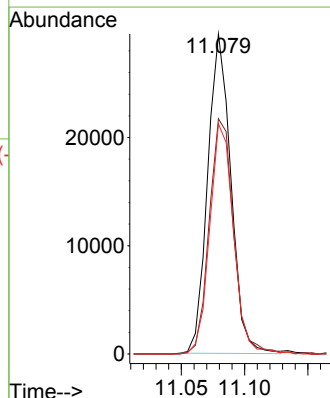
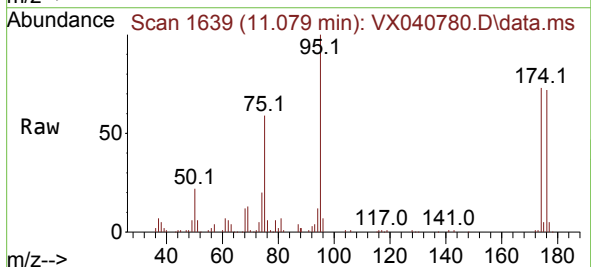
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

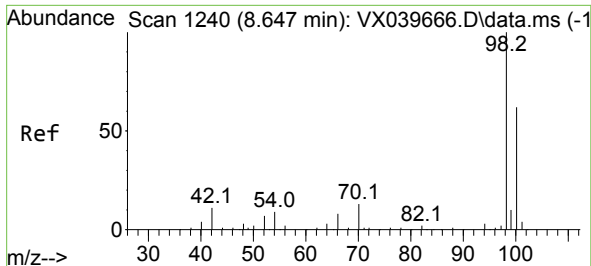
Tgt Ion: 43 Resp: 538
Ion Ratio Lower Upper
43 100
58 214.1 30.1 45.1#
85 0.0 13.9 20.9#



#60
4-Bromofluorobenzene
Concen: 29.165 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion: 95 Resp: 37611
Ion Ratio Lower Upper
95 100
174 77.5 55.4 83.2
176 74.0 52.6 78.8

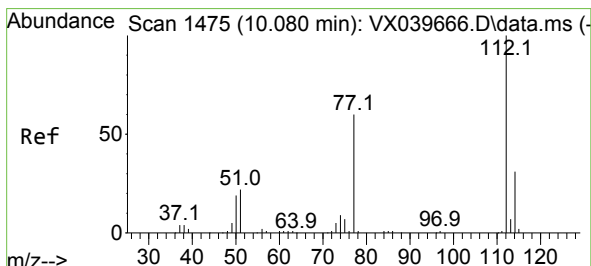
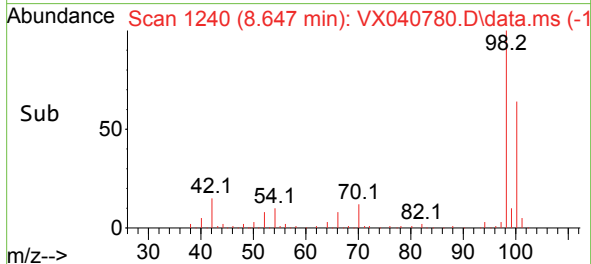
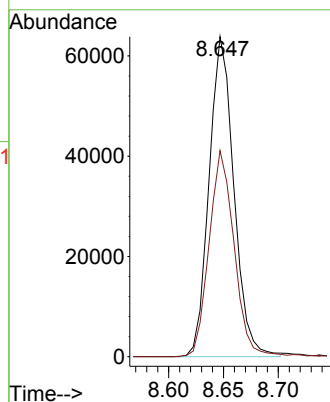
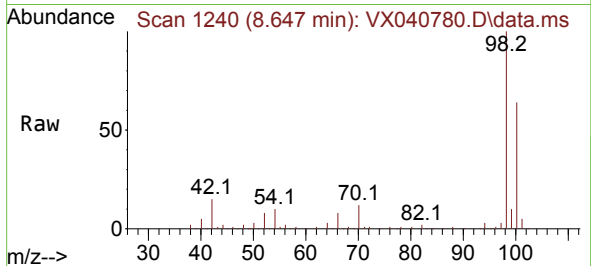




#63
Toluene-d8
Concen: 30.245 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

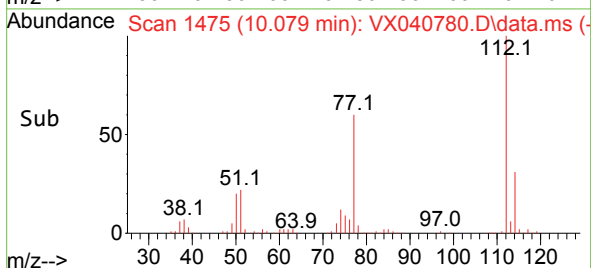
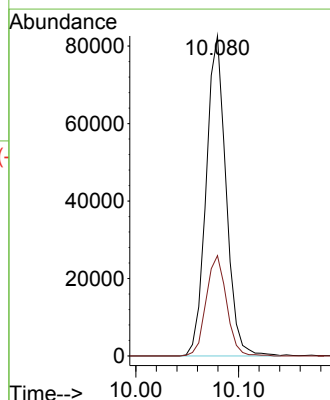
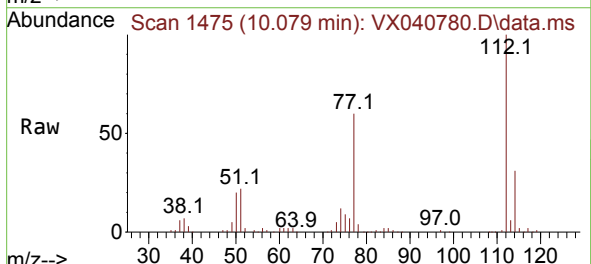
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

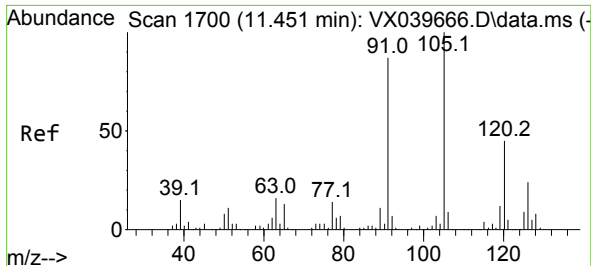
Tgt Ion: 98 Resp: 100486
Ion Ratio Lower Upper
98 100
100 64.9 51.0 76.4



#64
Chlorobenzene
Concen: 43.949 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.001 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion: 112 Resp: 111223
Ion Ratio Lower Upper
112 100
114 31.3 25.9 38.9

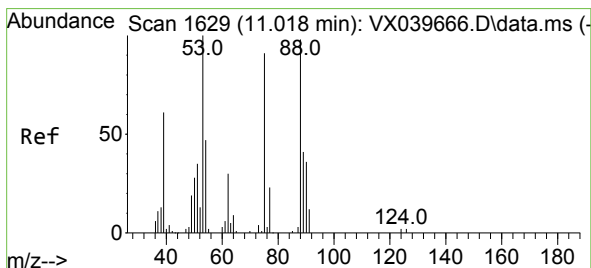
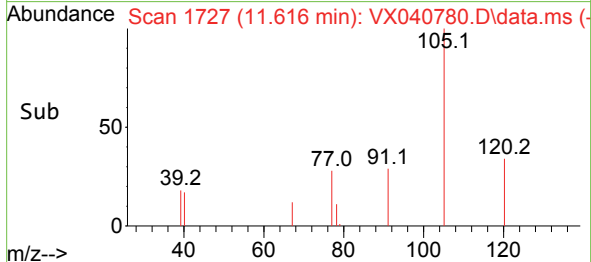
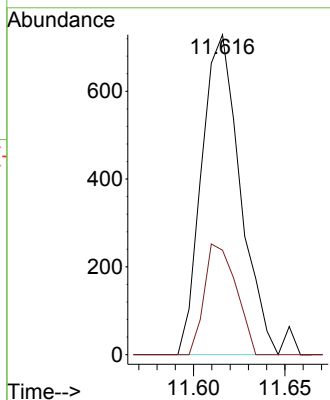
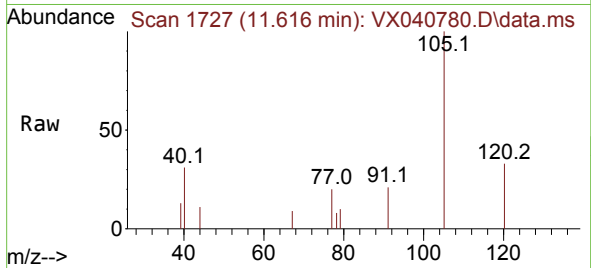




#76
1,3,5-Trimethylbenzene
Concen: 0.265 ug/l
RT: 11.616 min Scan# 11
Delta R.T. 0.165 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

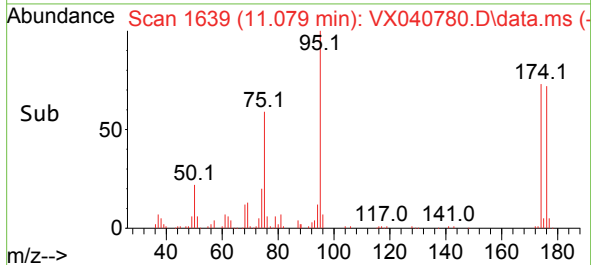
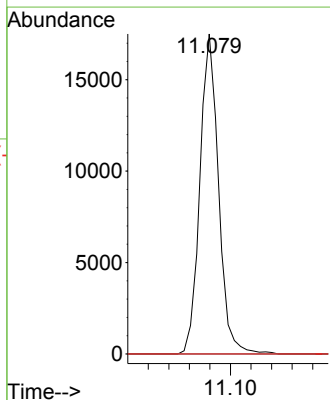
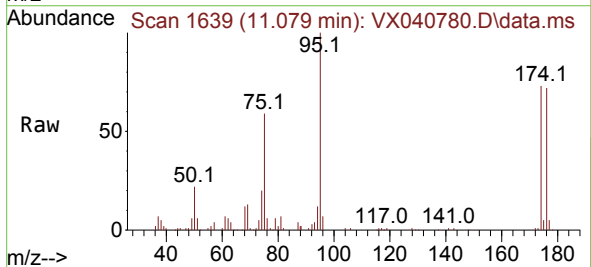
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

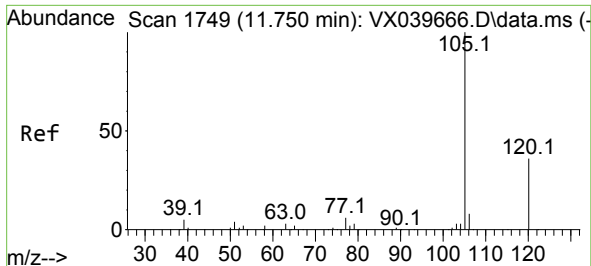
Tgt Ion:105 Resp: 1071
Ion Ratio Lower Upper
105 100
120 28.5 0.0 92.6



#77
t-1,4-Dichloro-2-butene
Concen: 49.107 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion: 75 Resp: 22076
Ion Ratio Lower Upper
75 100
53 0.0 46.9 140.8#
89 0.0 21.3 63.7#

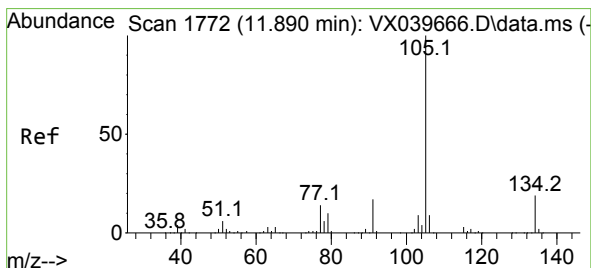
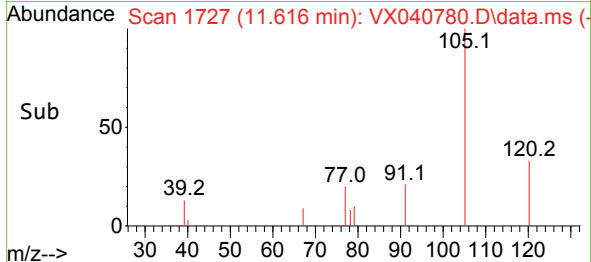
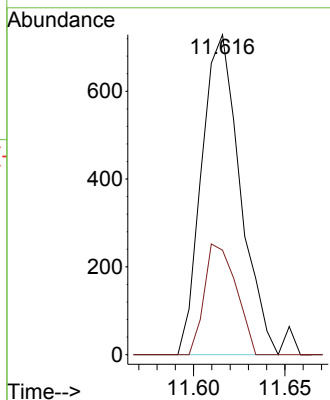
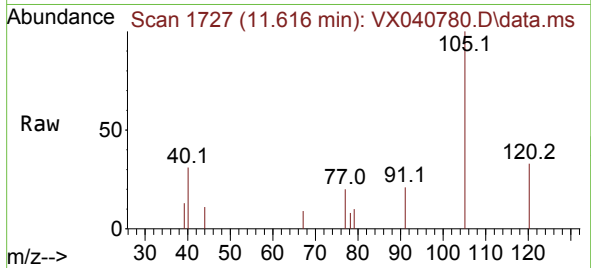




#80
1,2,4-Trimethylbenzene
Concen: 0.269 ug/l
RT: 11.616 min Scan# 1727
Delta R.T. -0.134 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

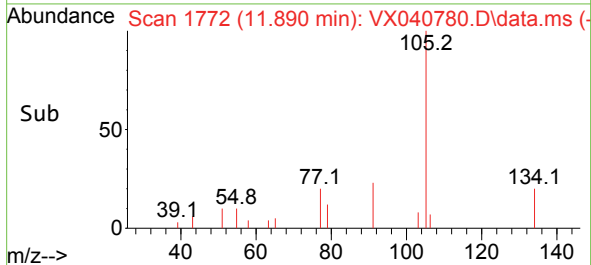
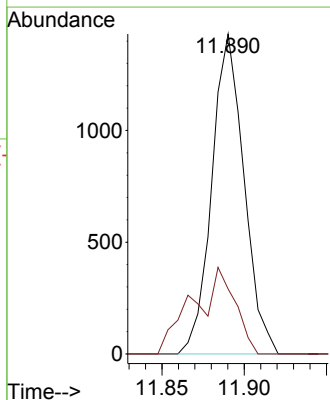
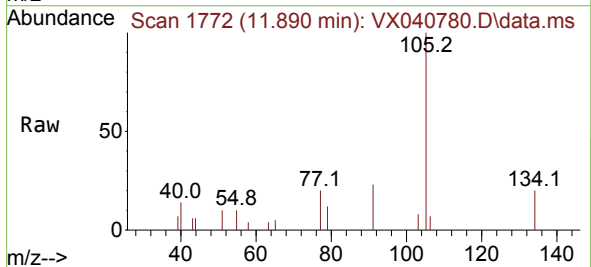
Instrument :
MSVOA_X
ClientSampleId :
240308028-05

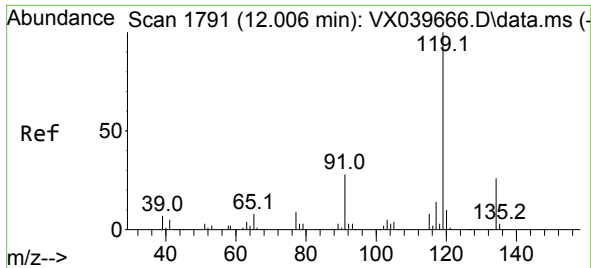
Tgt Ion:105 Resp: 1071
Ion Ratio Lower Upper
105 100
120 28.5 0.0 86.4



#81
sec-Butylbenzene
Concen: 0.392 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion:105 Resp: 1949
Ion Ratio Lower Upper
105 100
134 18.1 0.0 38.4

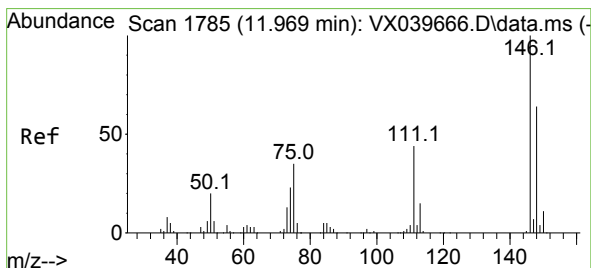
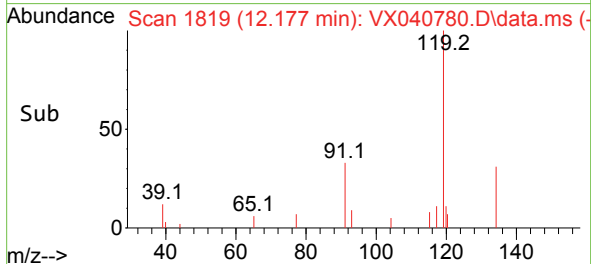
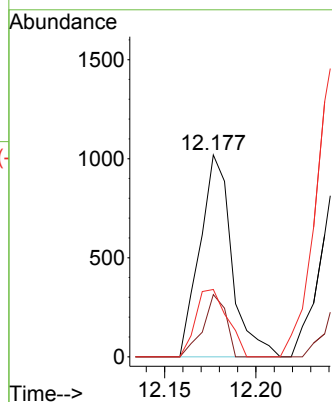
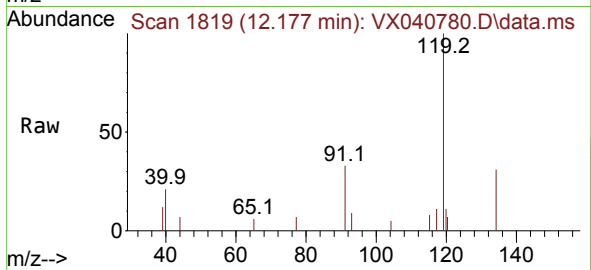




#82
 p-Isopropyltoluene
 Concen: 0.304 ug/l
 RT: 12.177 min Scan# 1797
 Delta R.T. 0.171 min
 Lab File: VX040780.D
 Acq: 22 Mar 2024 15:06

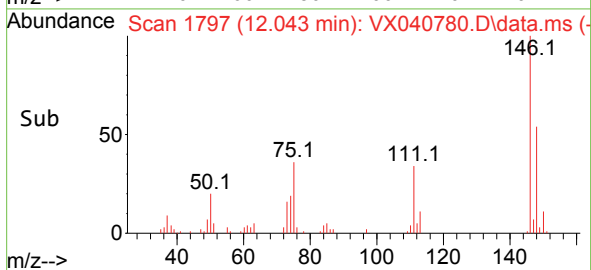
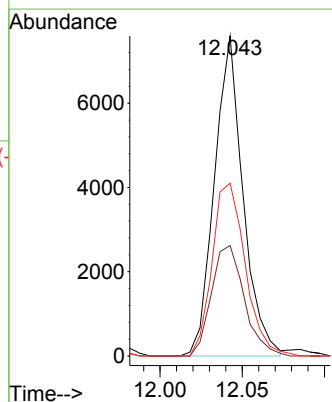
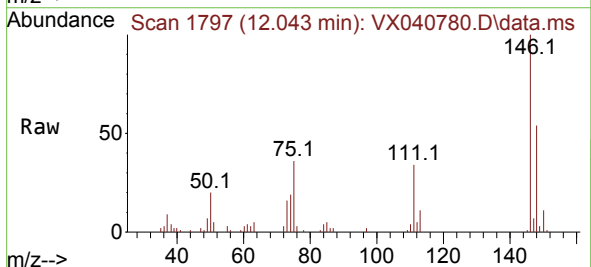
Instrument :
 MSVOA_X
 ClientSampleId :
 240308028-05

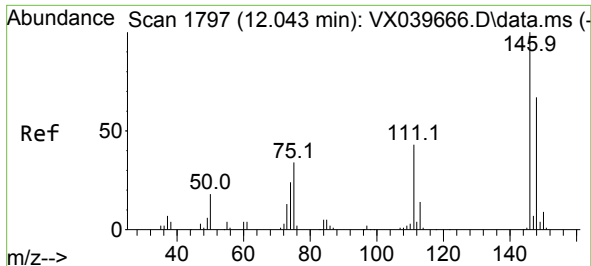
Tgt Ion:119 Resp: 1238
 Ion Ratio Lower Upper
 119 100
 134 22.1 0.0 52.6
 91 33.2 0.0 54.2



#83
 1,3-Dichlorobenzene
 Concen: 4.347 ug/l
 RT: 12.043 min Scan# 1797
 Delta R.T. 0.074 min
 Lab File: VX040780.D
 Acq: 22 Mar 2024 15:06

Tgt Ion:146 Resp: 9182
 Ion Ratio Lower Upper
 146 100
 111 39.7 22.3 66.9
 148 62.5 32.8 98.3

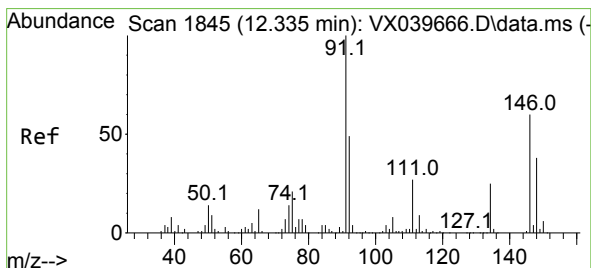
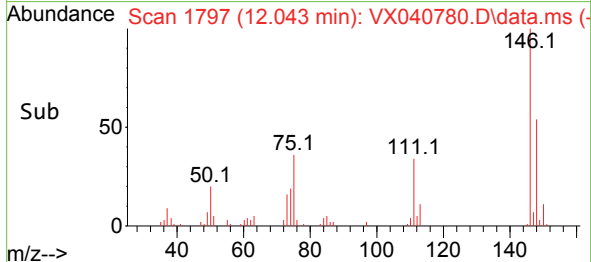
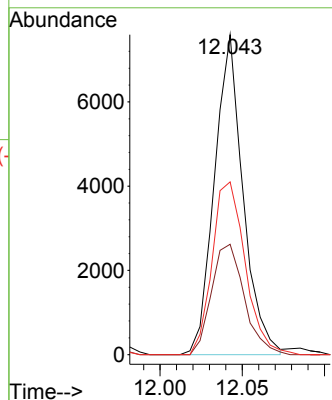
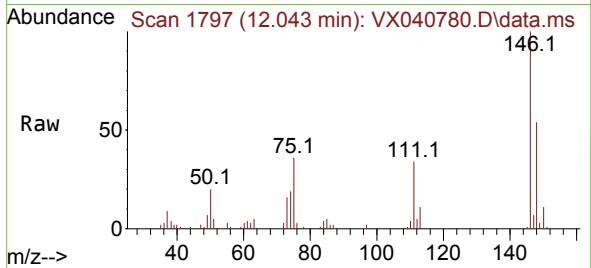




#84
1,4-Dichlorobenzene
Concen: 4.250 ug/l
RT: 12.043 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Instrument :
MSVOA_X
ClientSampleId :
240308028-05

Tgt Ion:146 Resp: 9182
Ion Ratio Lower Upper
146 100
111 39.7 21.4 64.2
148 62.5 31.8 95.4



#87
1,2-Dichlorobenzene
Concen: 0.445 ug/l
RT: 12.341 min Scan# 1846
Delta R.T. 0.006 min
Lab File: VX040780.D
Acq: 22 Mar 2024 15:06

Tgt Ion:146 Resp: 914
Ion Ratio Lower Upper
146 100
111 31.2 22.4 67.2
148 61.6 31.9 95.7

