

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
 Data File : VX042078.D
 Acq On : 27 Jun 2024 16:35
 Operator : JC/MD
 Sample : P3067-02DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 04:06:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

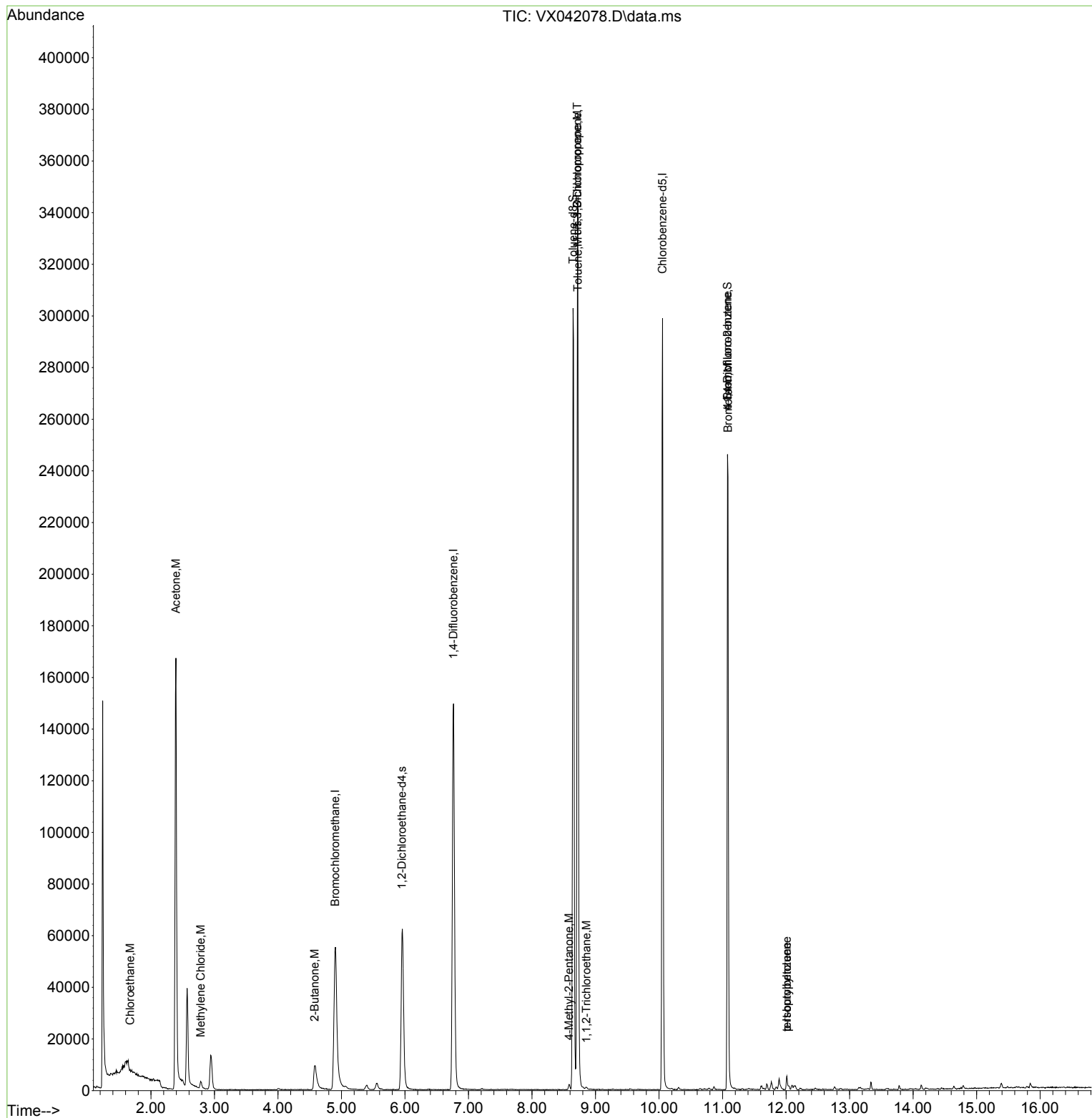
Internal Standards						
1) Bromochloromethane	4.897	128	30554	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	169808	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	152096	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	59190	28.141	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.800%		
60) 4-Bromofluorobenzene	11.079	95	66252	28.140	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.800%		
63) Toluene-d8	8.647	98	192685	29.611	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.700%		
Target Compounds						Qvalue
6) Chloroethane	1.672	64	443	0.480	ug/l #	42
15) Acetone	2.392	58	61692	190.855	ug/l	96
18) Methylene Chloride	2.782	84	1364	0.637	ug/l #	86
30) 2-Butanone	4.574	43	19025	12.847	ug/l	98
48) t-1,3-Dichloropropene	8.714	75	1462	0.609	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1462	0.543	ug/l #	1
50) 1,1,2-Trichloroethane	8.854	97	549	0.290	ug/l #	16
56) Bromoform	11.085	173	441	0.261	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	1329	0.488	ug/l #	94
62) Toluene	8.720	91	232421	30.198	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	29266	33.263	ug/l #	7
79) tert-butylbenzene	12.012	119	2328	0.309	ug/l	67
82) p-Isopropyltoluene	12.012	119	2328	0.302	ug/l	99

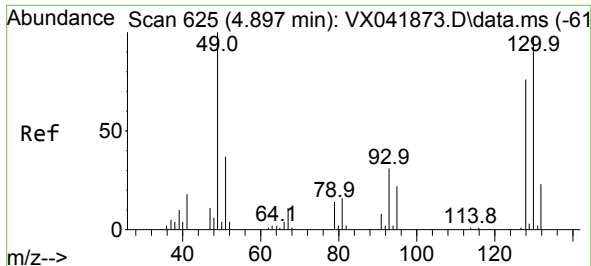
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
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ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

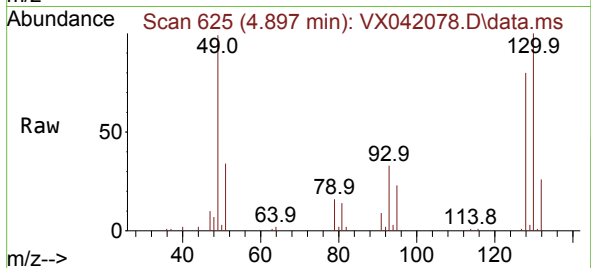
Quant Time: Jun 28 04:06:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
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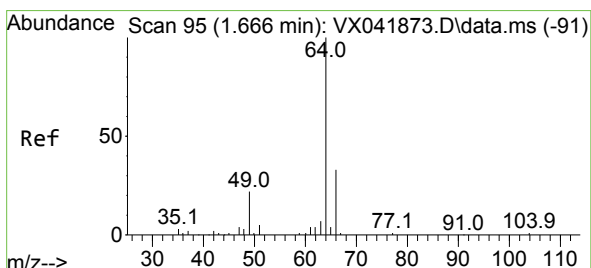
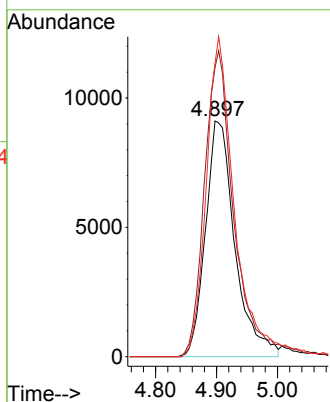
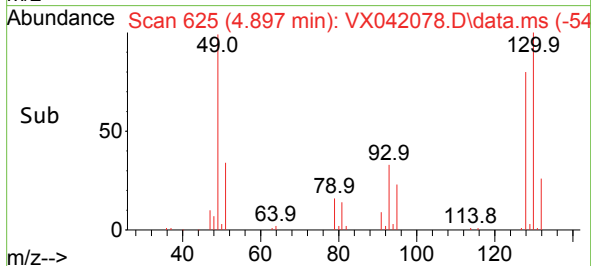


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX042078.D
Acq: 27 Jun 2024 16:35

Instrument :
MSVOA_X
ClientSampleId :

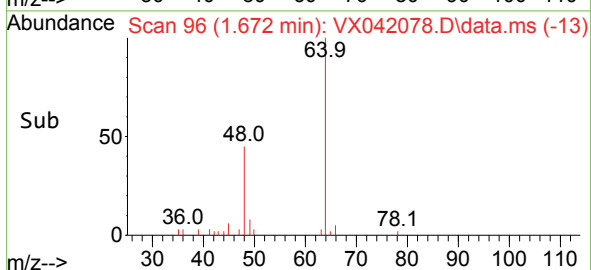
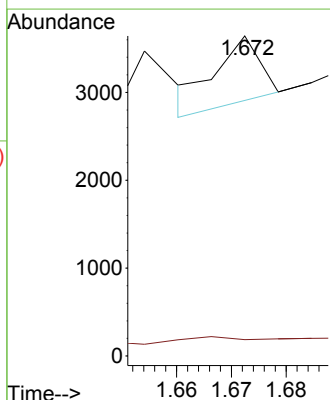
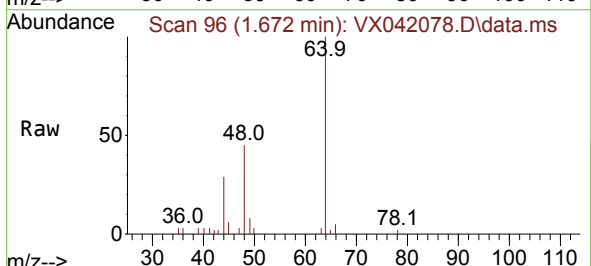


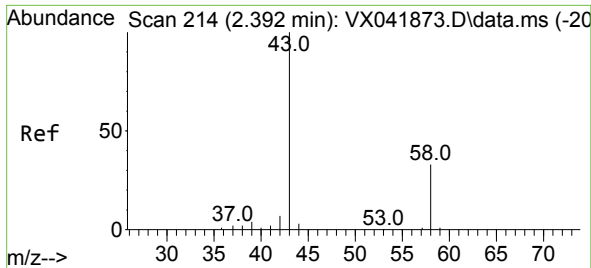
Tgt Ion:128 Resp: 30554
Ion Ratio Lower Upper
128 100
49 131.2 0.0 338.5
130 129.7 0.0 324.5



#6
Chloroethane
Concen: 0.480 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX042078.D
Acq: 27 Jun 2024 16:35

Tgt Ion: 64 Resp: 443
Ion Ratio Lower Upper
64 100
66 0.3 26.4 39.6#





#15

Acetone

Concen: 190.855 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

Instrument :

MSVOA_X

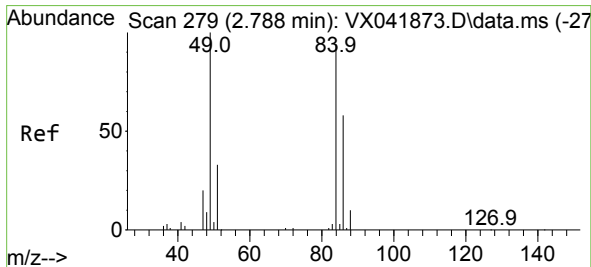
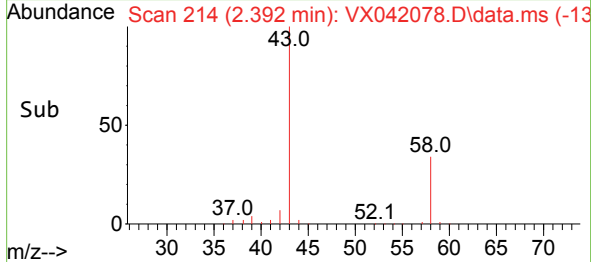
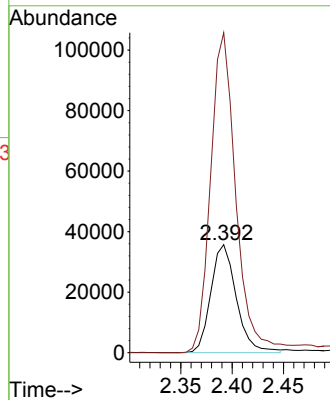
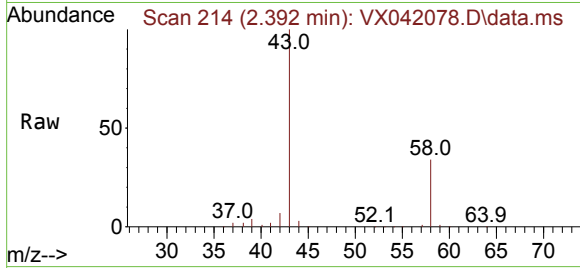
ClientSampleId :

Tgt Ion: 58 Resp: 61692

Ion Ratio Lower Upper

58 100

43 296.1 243.4 365.2



#18

Methylene Chloride

Concen: 0.637 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

Tgt Ion: 84 Resp: 1364

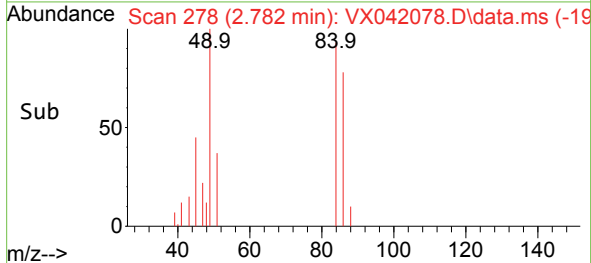
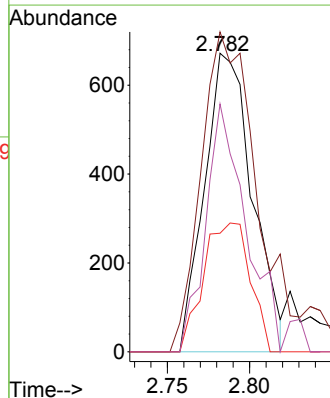
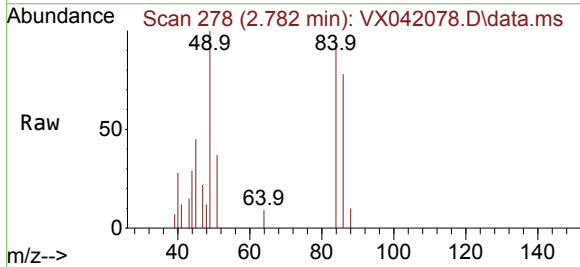
Ion Ratio Lower Upper

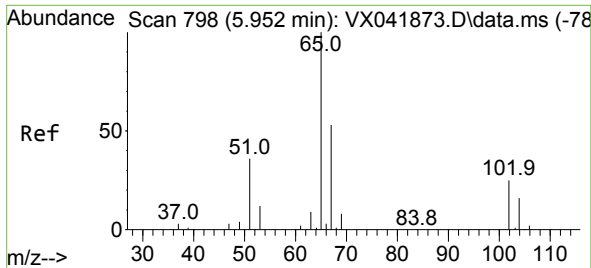
84 100

49 97.5 85.3 127.9

51 39.7 28.5 42.7

86 83.0 49.6 74.4#

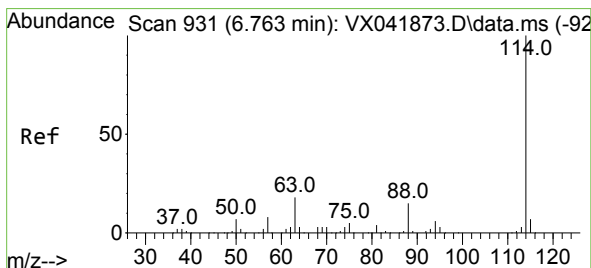
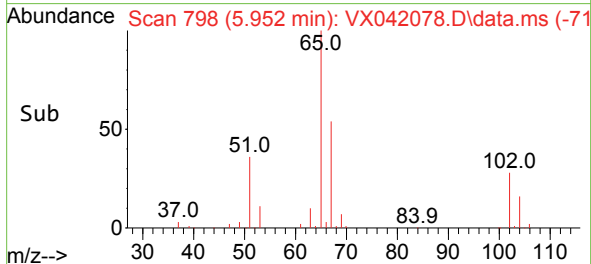
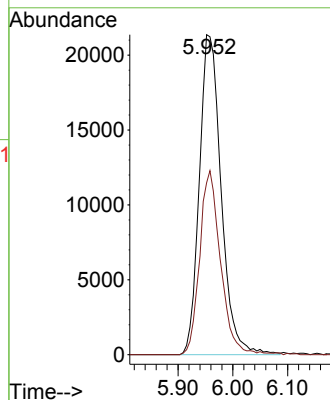
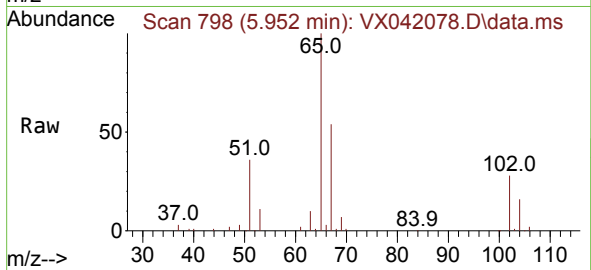




#27
1,2-Dichloroethane-d4
Concen: 28.141 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX042078.D
Acq: 27 Jun 2024 16:35

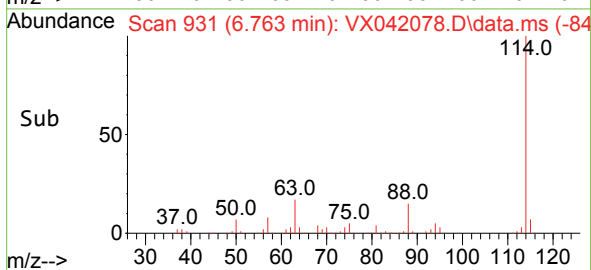
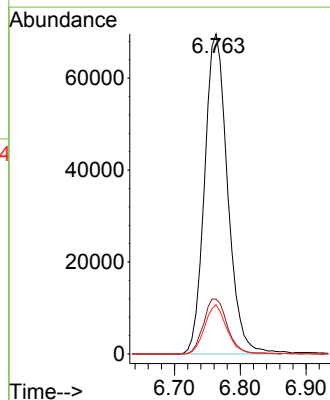
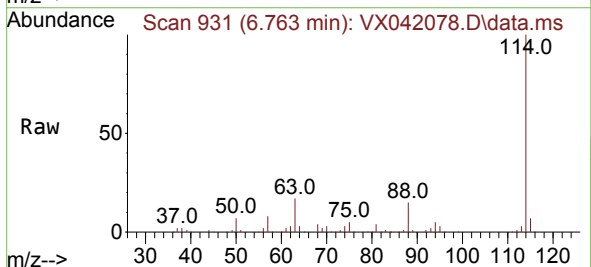
Instrument :
MSVOA_X
ClientSampleId :

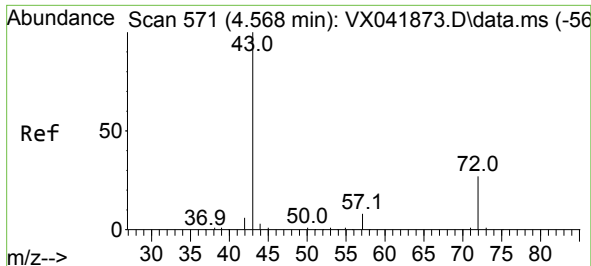
Tgt Ion: 65 Resp: 59190
Ion Ratio Lower Upper
65 100
67 54.4 43.4 65.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042078.D
Acq: 27 Jun 2024 16:35

Tgt Ion: 114 Resp: 169808
Ion Ratio Lower Upper
114 100
63 17.6 14.6 21.8
88 14.8 11.8 17.8

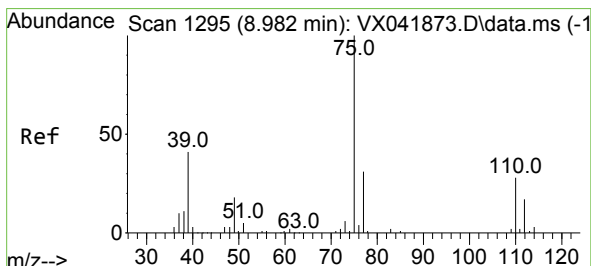
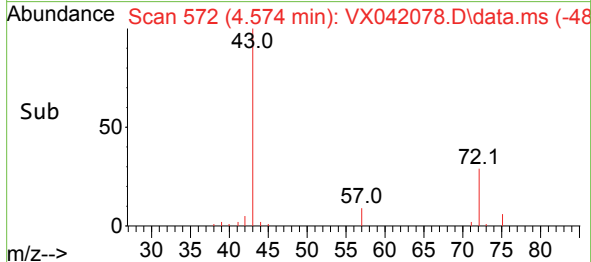
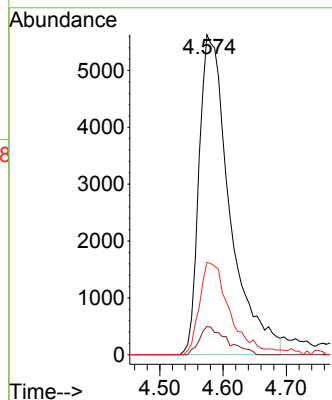
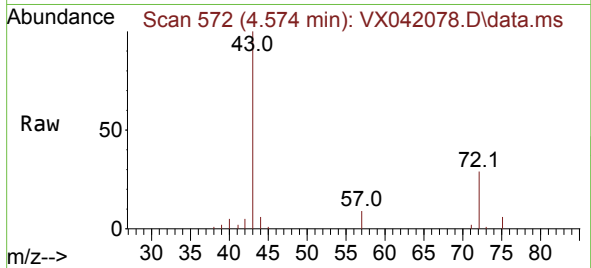




#30
2-Butanone
Concen: 12.847 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX042078.D
Acq: 27 Jun 2024 16:35

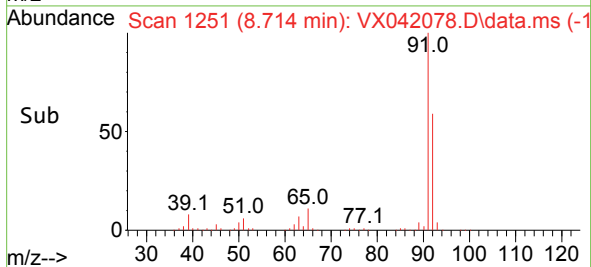
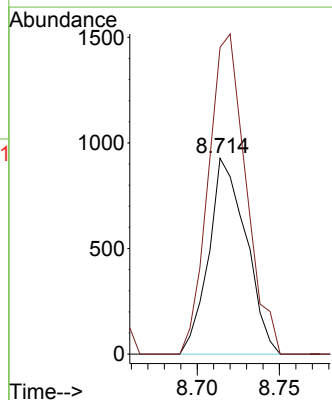
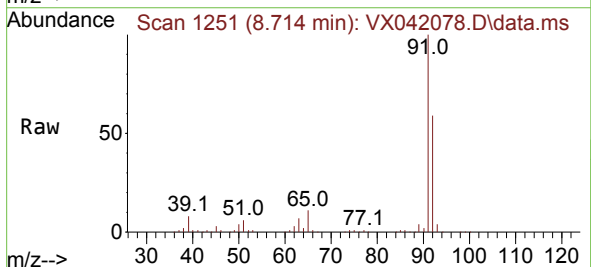
Instrument :
MSVOA_X
ClientSampleId :

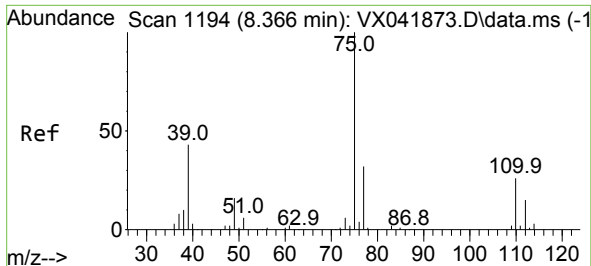
Tgt Ion: 43 Resp: 19025
Ion Ratio Lower Upper
43 100
57 6.6 6.5 9.7
72 26.6 22.0 33.0



#48
t-1,3-Dichloropropene
Concen: 0.609 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.268 min
Lab File: VX042078.D
Acq: 27 Jun 2024 16:35

Tgt Ion: 75 Resp: 1462
Ion Ratio Lower Upper
75 100
77 156.6 25.1 37.7#





#49

cis-1,3-Dichloropropene

Concen: 0.543 ug/l

RT: 8.714 min Scan# 1194

Delta R.T. 0.348 min

Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

Instrument :

MSVOA_X

ClientSampleId :

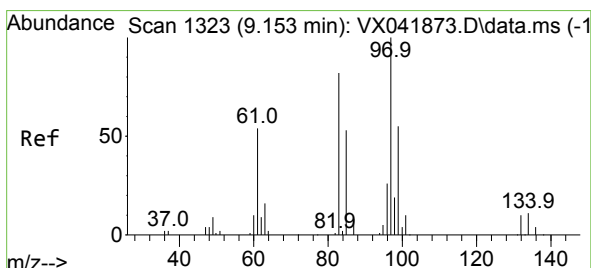
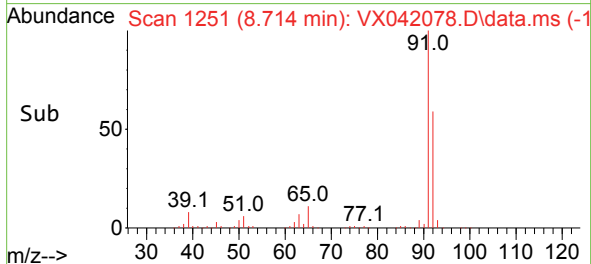
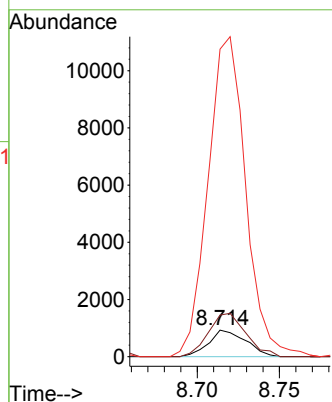
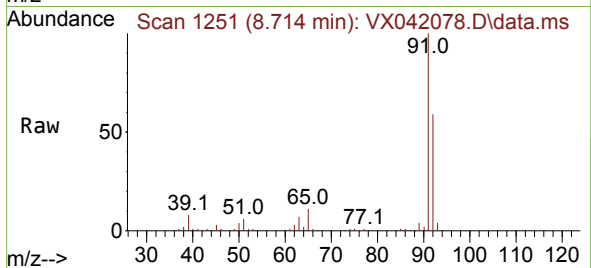
Tgt Ion: 75 Resp: 1462

Ion Ratio Lower Upper

75 100

77 156.6 25.8 38.8#

39 1140.1 34.8 52.2#



#50

1,1,2-Trichloroethane

Concen: 0.290 ug/l

RT: 8.854 min Scan# 1274

Delta R.T. -0.299 min

Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

Tgt Ion: 97 Resp: 549

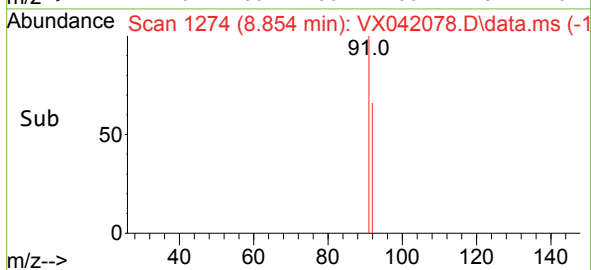
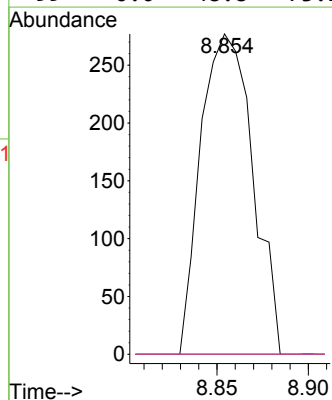
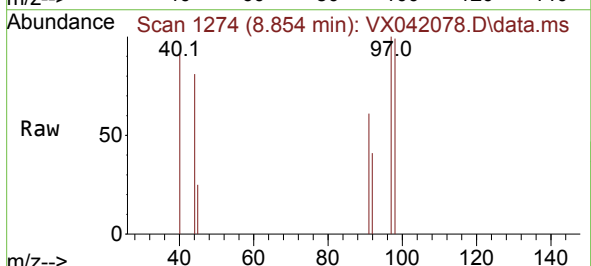
Ion Ratio Lower Upper

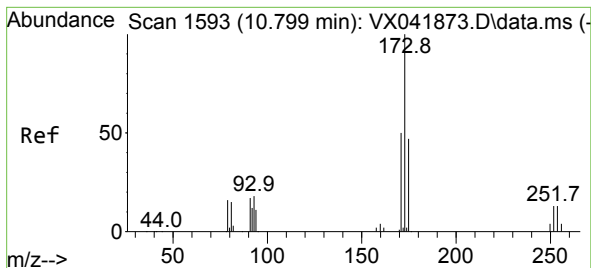
97 100

83 0.0 65.9 98.9#

85 0.0 42.9 64.3#

99 0.0 48.8 73.2#





#56

Bromoform

Concen: 0.261 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.287 min

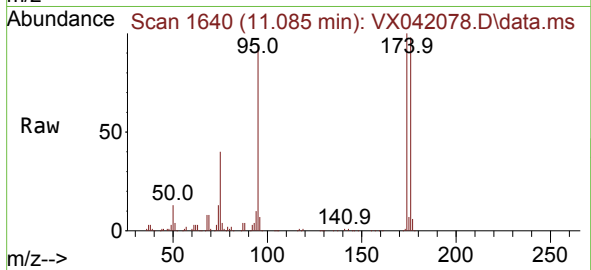
Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

Instrument :

MSVOA_X

ClientSampleId :



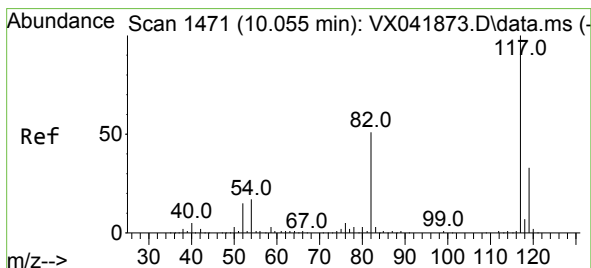
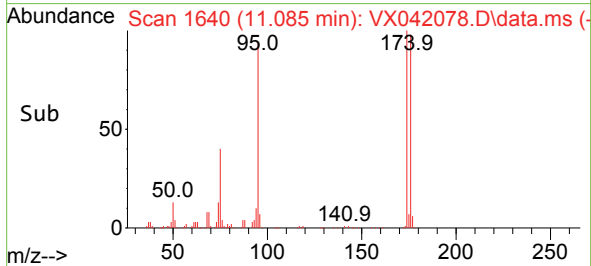
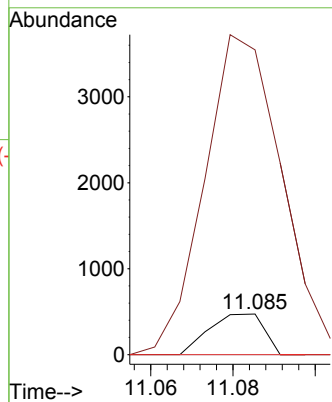
Tgt Ion:173 Resp: 441

Ion Ratio Lower Upper

173 100

175 1116.3 39.3 58.9#

254 0.0 9.6 14.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

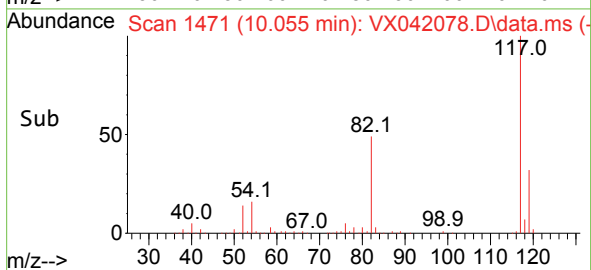
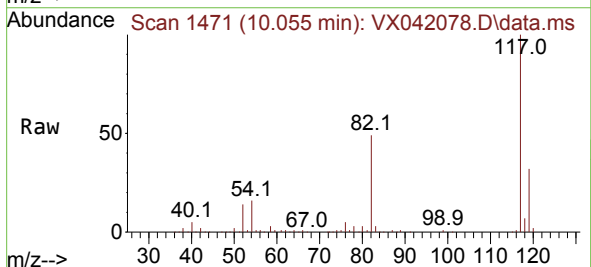
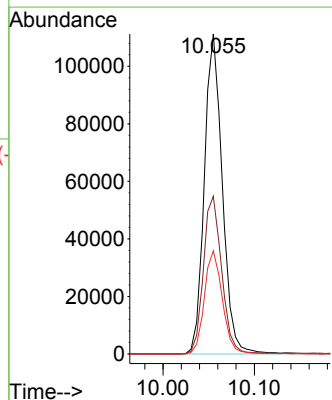
Tgt Ion:117 Resp: 152096

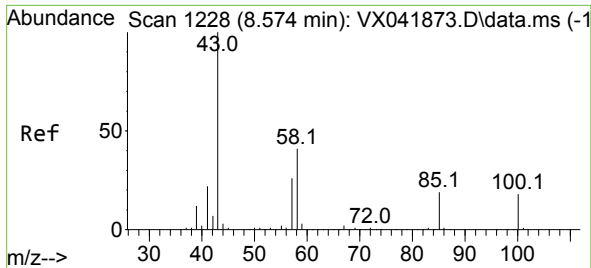
Ion Ratio Lower Upper

117 100

82 50.1 41.1 61.7

119 32.4 26.1 39.1

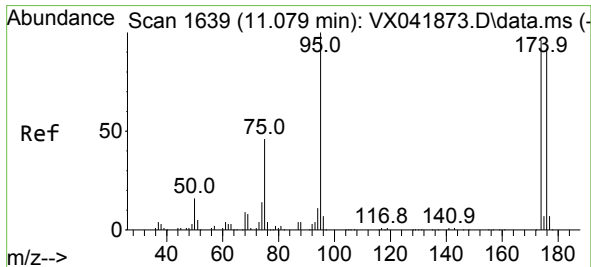
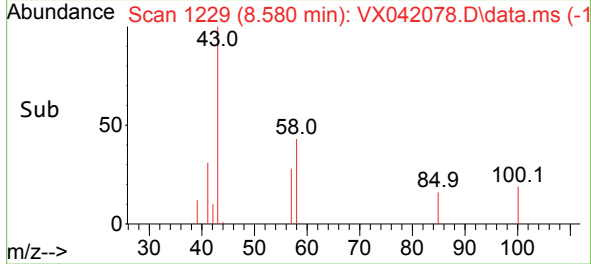
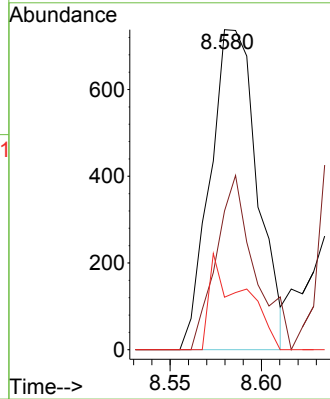
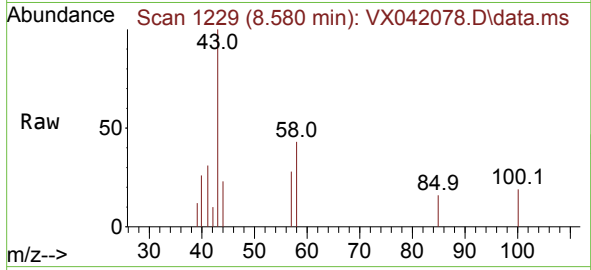




#58
 4-Methyl-2-Pentanone
 Concen: 0.488 ug/l
 RT: 8.580 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX042078.D
 Acq: 27 Jun 2024 16:35

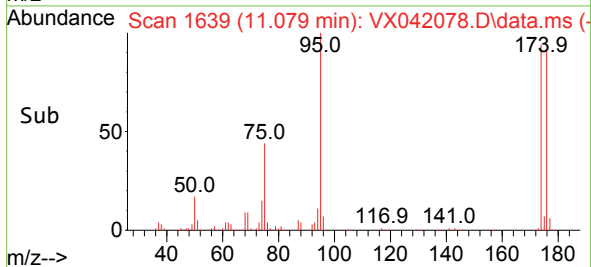
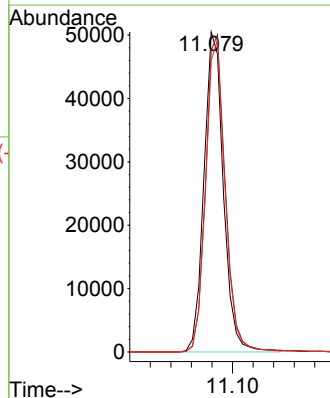
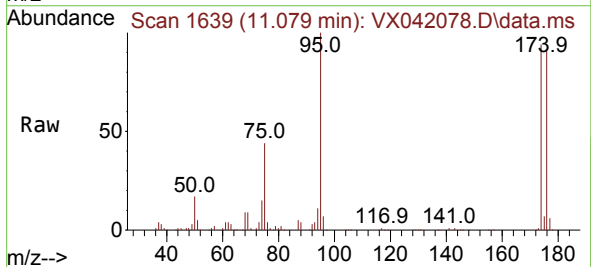
Instrument :
 MSVOA_X
 ClientSampleId :

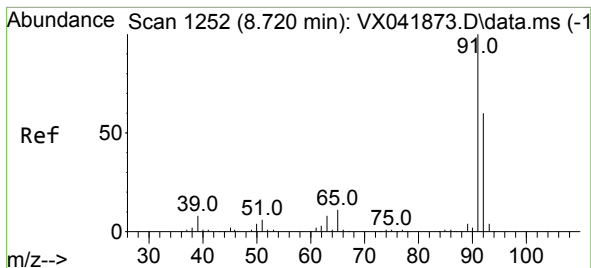
Tgt Ion: 43 Resp: 1329
 Ion Ratio Lower Upper
 43 100
 58 41.1 33.2 49.8
 85 12.0 15.5 23.3#



#60
 4-Bromofluorobenzene
 Concen: 28.140 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: VX042078.D
 Acq: 27 Jun 2024 16:35

Tgt Ion: 95 Resp: 66252
 Ion Ratio Lower Upper
 95 100
 174 100.6 78.9 118.3
 176 97.3 77.1 115.7





#62

Toluene

Concen: 30.198 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX042078.D

Acq: 27 Jun 2024 16:35

Instrument :

MSVOA_X

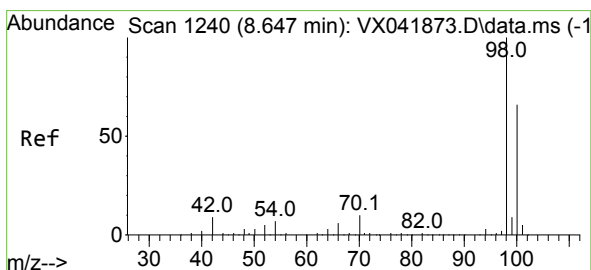
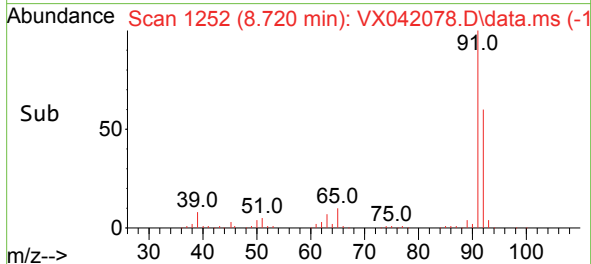
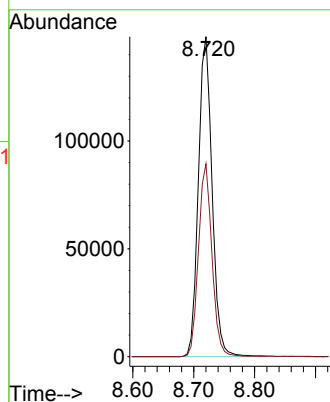
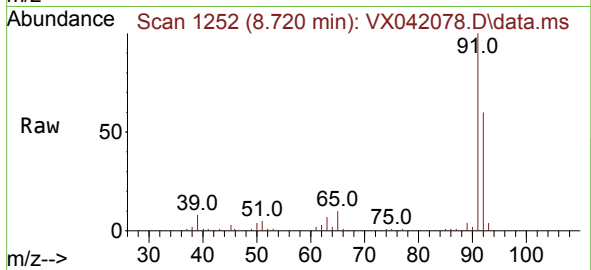
ClientSampleId :

Tgt Ion: 91 Resp: 232421

Ion Ratio Lower Upper

91 100

92 59.2 47.4 71.2



#63

Toluene-d8

Concen: 29.611 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX042078.D

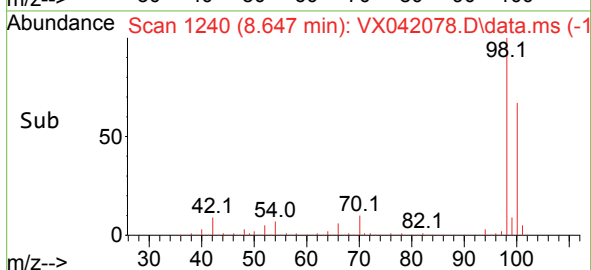
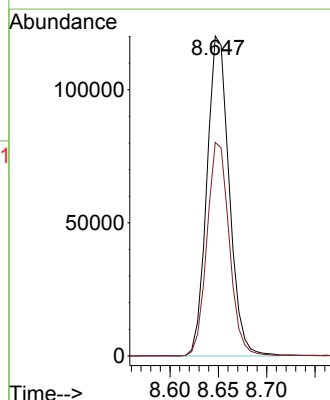
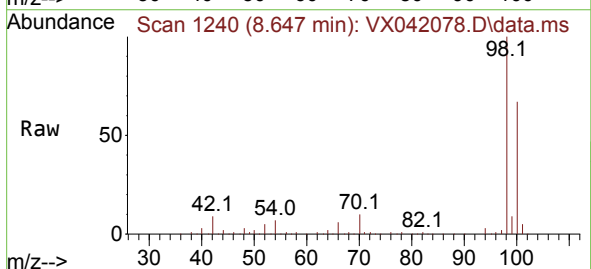
Acq: 27 Jun 2024 16:35

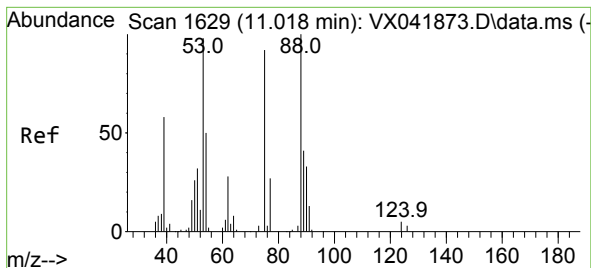
Tgt Ion: 98 Resp: 192685

Ion Ratio Lower Upper

98 100

100 66.8 52.7 79.1

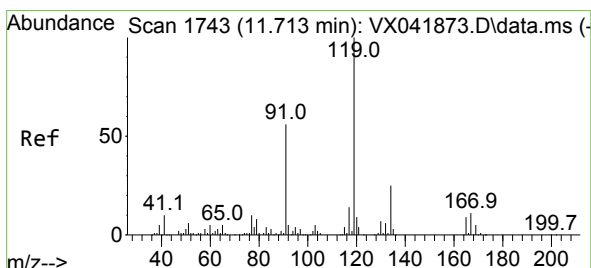
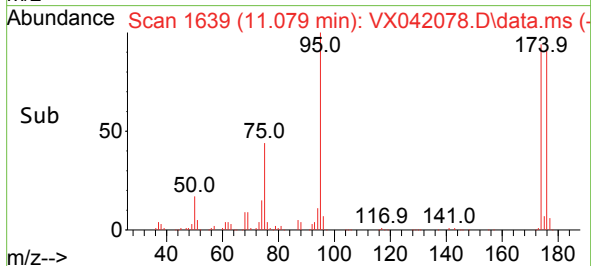
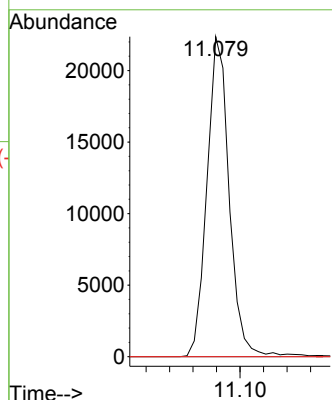
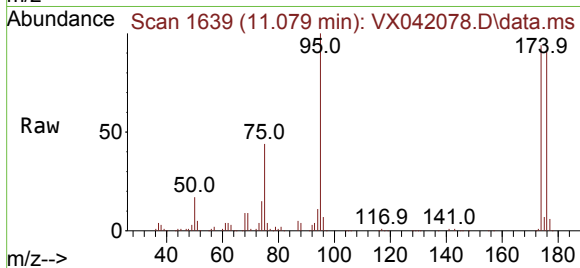




#77
 t-1,4-Dichloro-2-butene
 Concen: 33.263 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX042078.D
 Acq: 27 Jun 2024 16:35

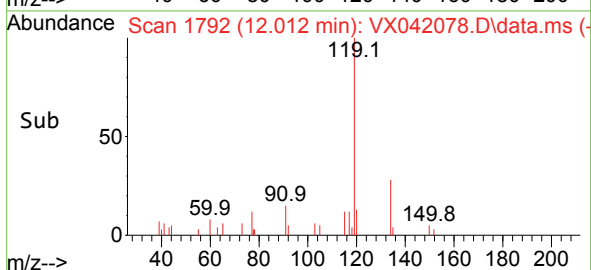
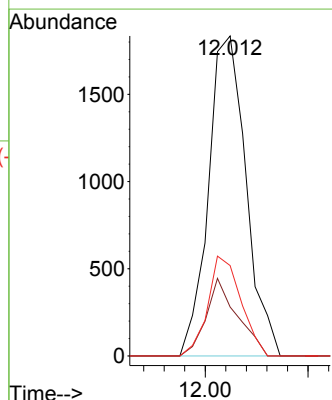
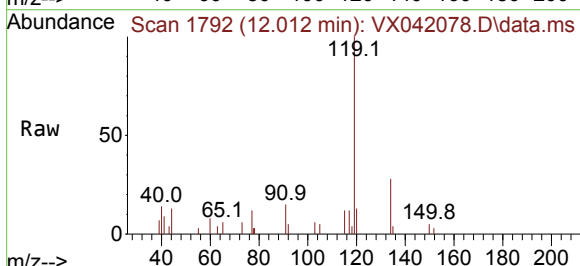
Instrument :
 MSVOA_X
 ClientSampleId :

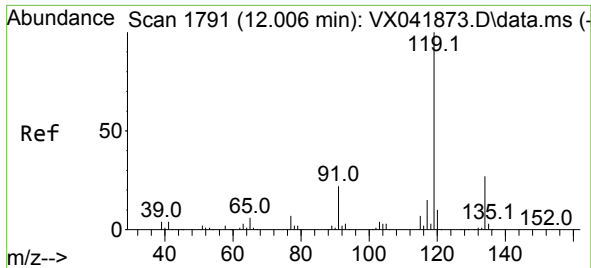
Tgt Ion: 75 Resp: 29266
 Ion Ratio Lower Upper
 75 100
 53 0.0 53.4 160.2#
 89 0.0 22.5 67.5#



#79
 tert-butylbenzene
 Concen: 0.309 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.299 min
 Lab File: VX042078.D
 Acq: 27 Jun 2024 16:35

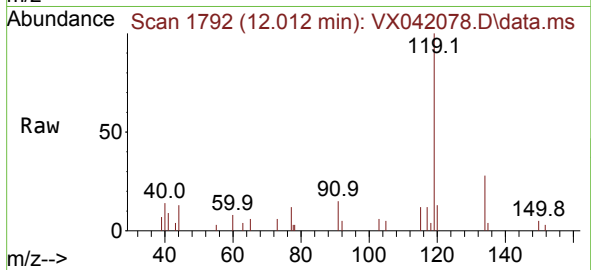
Tgt Ion: 119 Resp: 2328
 Ion Ratio Lower Upper
 119 100
 91 20.1 0.0 106.0
 134 27.5 0.0 49.4





#82
 p-Isopropyltoluene
 Concen: 0.302 ug/l
 RT: 12.012 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX042078.D
 Acq: 27 Jun 2024 16:35

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	119	Resp:	2328
Ion	Ratio	Lower	Upper
119	100		
134	27.5	0.0	54.0
91	20.1	0.0	42.2

