

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
 Data File : VX041790.D
 Acq On : 07 Jun 2024 15:00
 Operator : JC/MD
 Sample : P2777-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 08 04:07:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

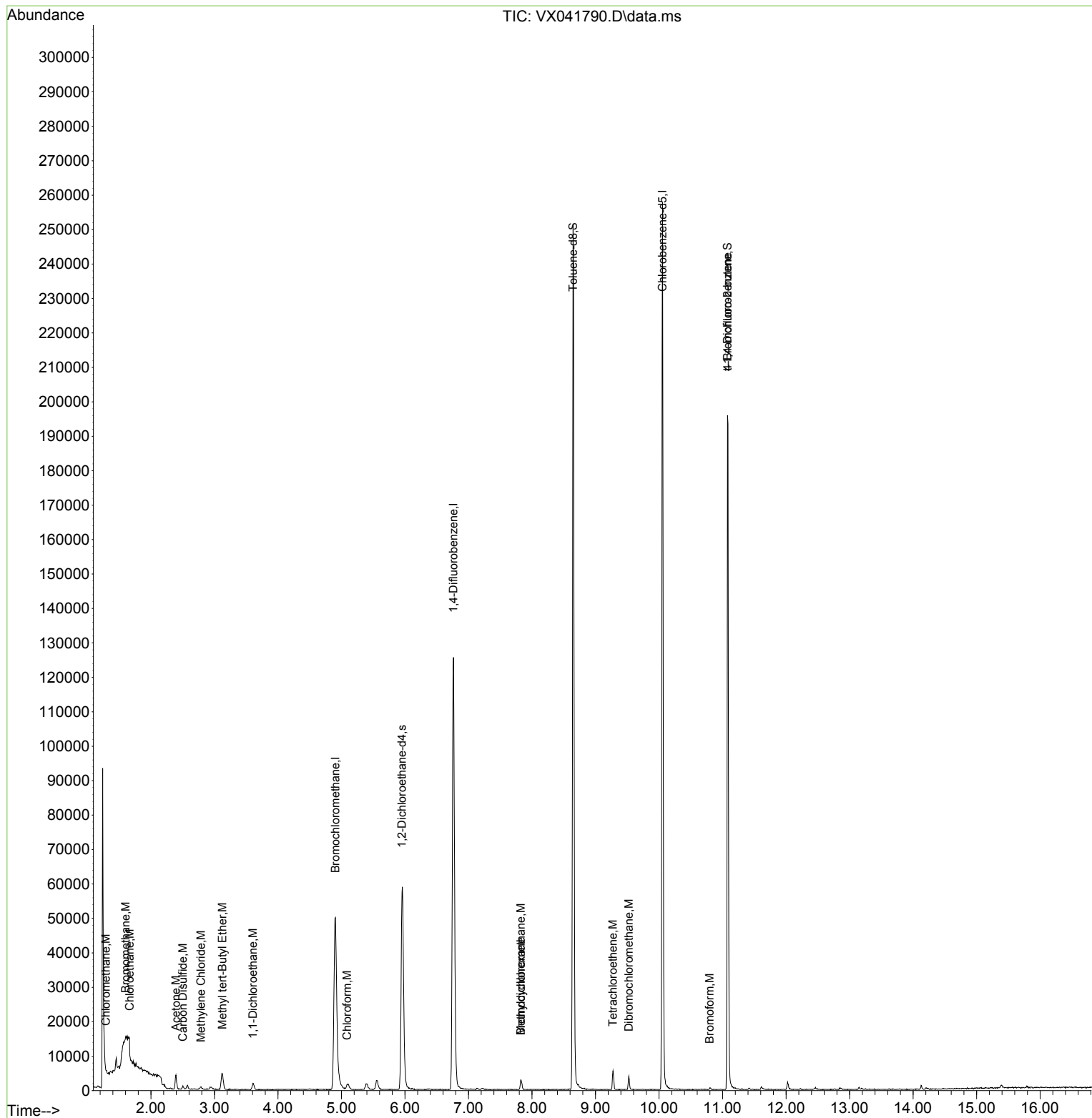
Internal Standards						
1) Bromochloromethane	4.903	128	23741	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	131061	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	119236	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	59682	31.923	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.400%
60) 4-Bromofluorobenzene	11.079	95	50565	27.166	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.567%
63) Toluene-d8	8.647	98	149512	29.252	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.500%
Target Compounds						
					Qvalue	
3) Chloromethane	1.288	50	368	0.271	ug/l #	42
5) Bromomethane	1.599	94	272	0.299	ug/l	90
6) Chloroethane	1.666	64	1428	1.973	ug/l #	45
15) Acetone	2.392	58	1242	5.763	ug/l	82
16) Carbon Disulfide	2.501	76	1306	0.476	ug/l	98
18) Methylene Chloride	2.788	84	382	0.264	ug/l #	76
21) 1,1-Dichloroethane	3.605	63	2345	0.923	ug/l #	94
24) Methyl tert-Butyl Ether	3.123	73	5229	1.153	ug/l	100
25) Chloroform	5.086	83	841	0.311	ug/l	97
38) Methylcyclohexane	7.824	83	2008	0.912	ug/l #	18
41) Bromodichloromethane	7.824	83	2043	1.068	ug/l	89
53) Dibromochloromethane	9.525	129	1875	1.163	ug/l	93
56) Bromoform	10.799	173	265	0.205	ug/l #	91
61) Tetrachloroethene	9.275	164	1232	0.845	ug/l	91
77) t-1,4-Dichloro-2-butene	11.079	75	25966	40.694	ug/l #	1

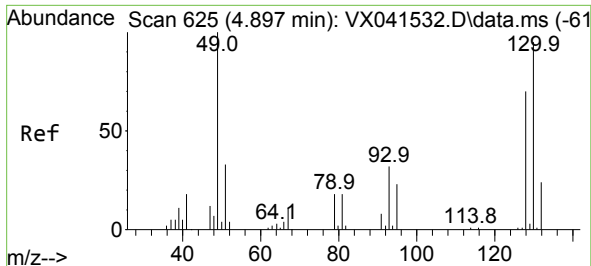
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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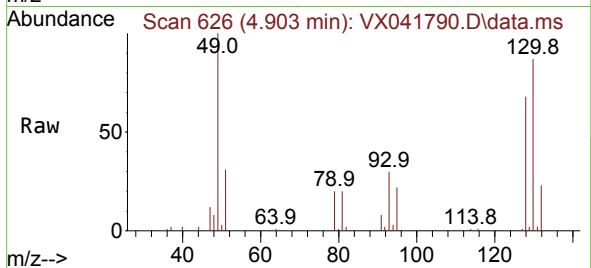
Quant Time: Jun 08 04:07:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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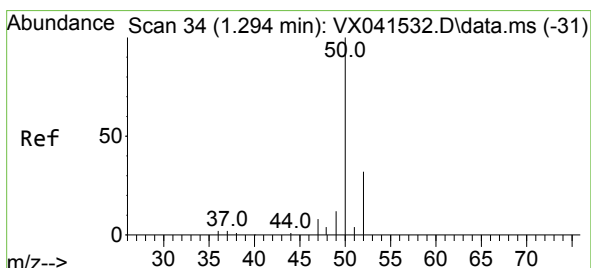
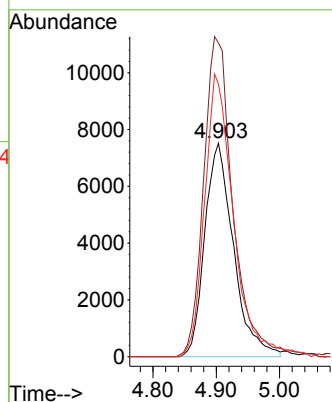
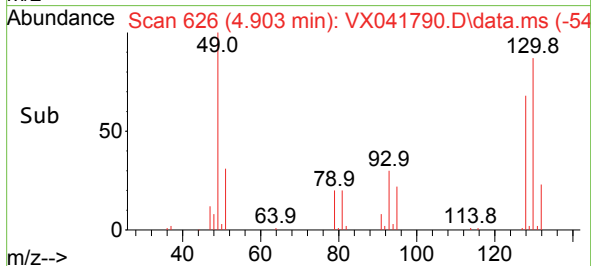


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Instrument :
MSVOA_X
ClientSampleId :

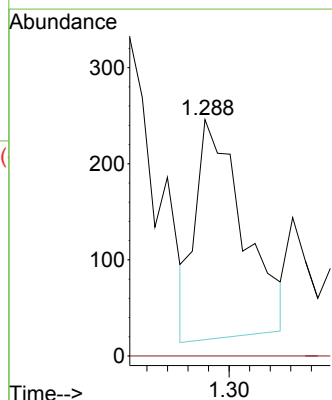
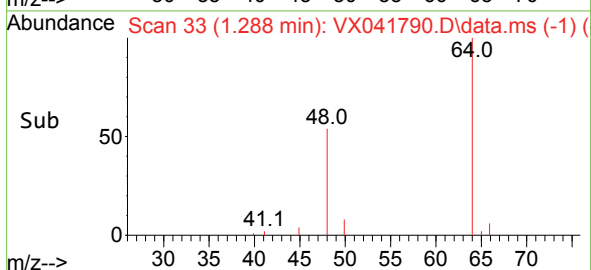
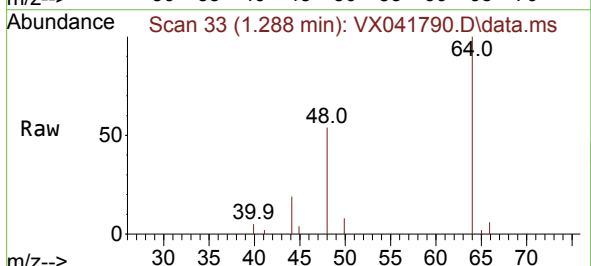


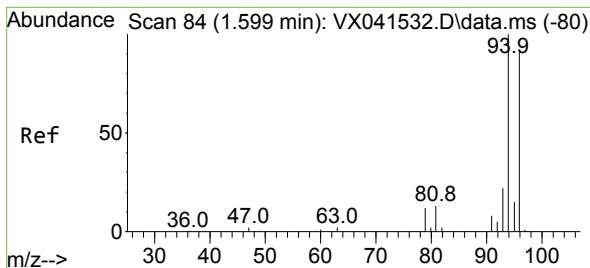
Tgt Ion:128 Resp: 23741
Ion Ratio Lower Upper
128 100
49 150.9 0.0 361.5
130 132.8 0.0 324.3



#3
Chloromethane
Concen: 0.271 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

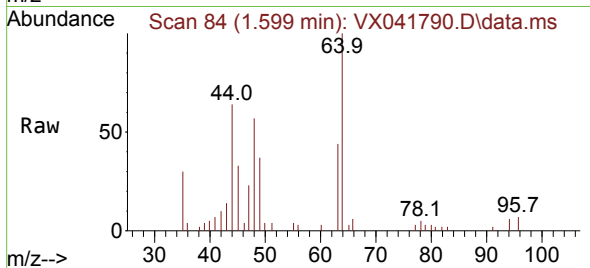
Tgt Ion: 50 Resp: 368
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



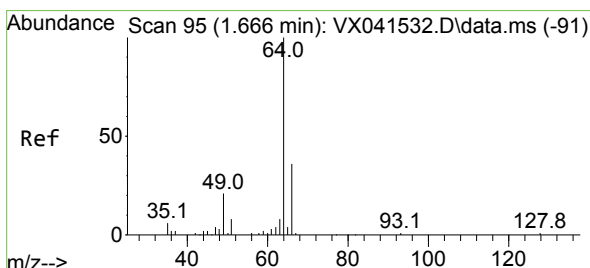
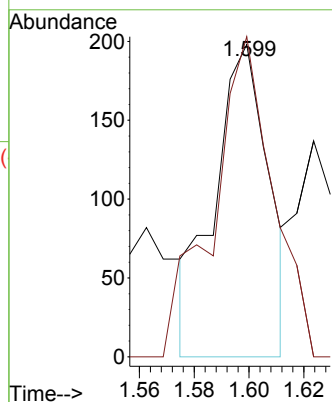
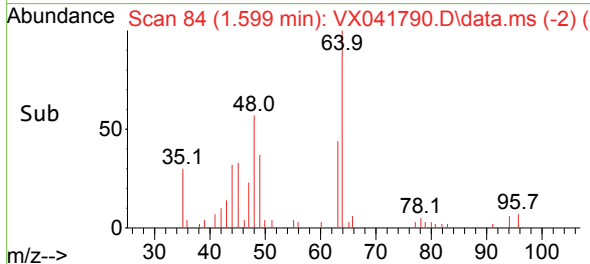


#5
Bromomethane
Concen: 0.299 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Instrument :
MSVOA_X
ClientSampleId :

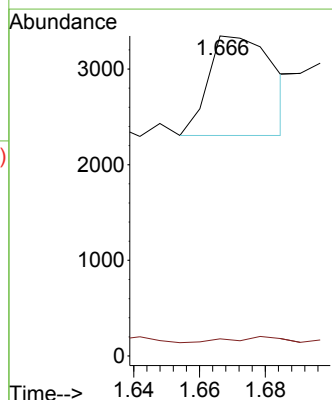
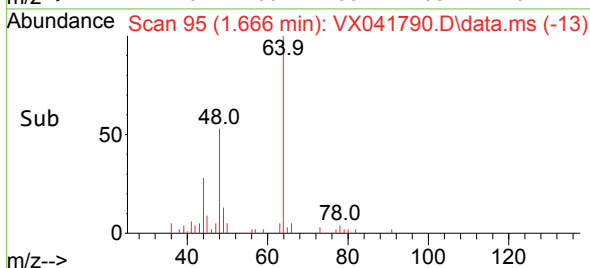
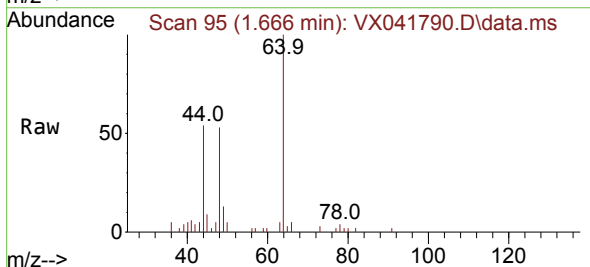


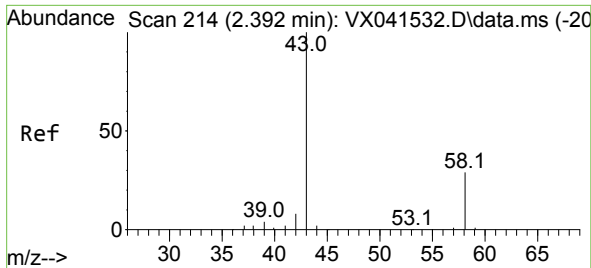
Tgt Ion: 94 Resp: 272
Ion Ratio Lower Upper
94 100
96 102.2 73.9 110.9



#6
Chloroethane
Concen: 1.973 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Tgt Ion: 64 Resp: 1428
Ion Ratio Lower Upper
64 100
66 3.8 28.6 42.8#

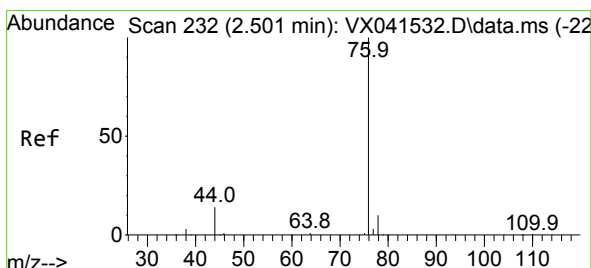
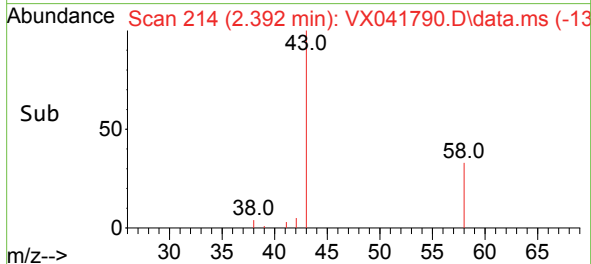
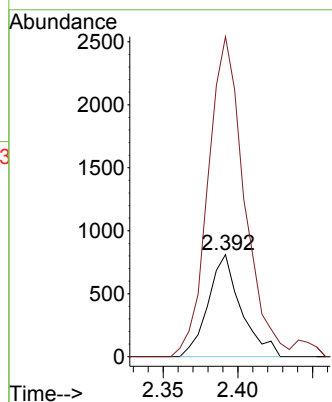
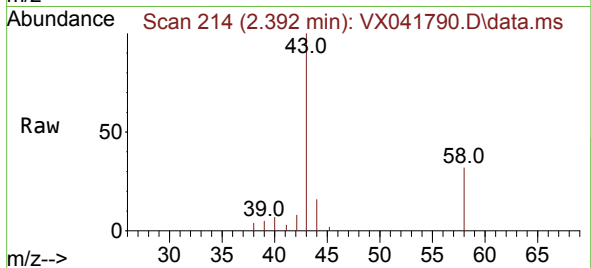




#15
Acetone
Concen: 5.763 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

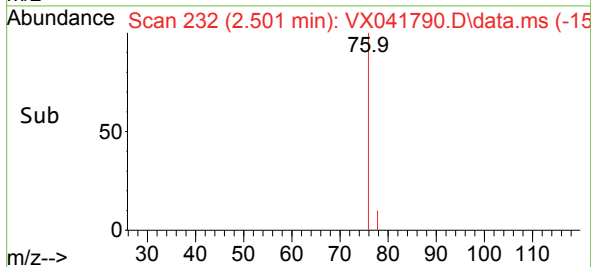
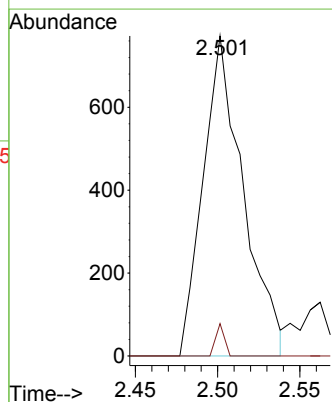
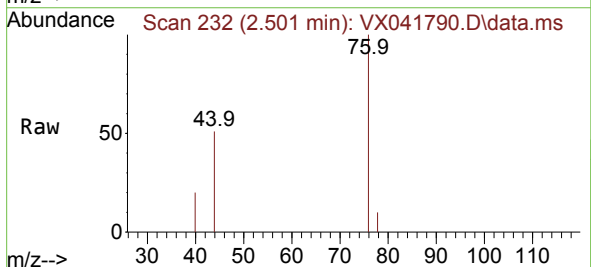
Instrument :
MSVOA_X
ClientSampleId :

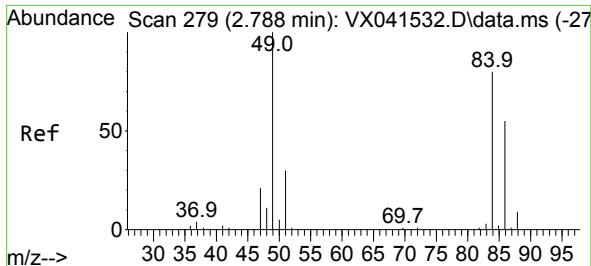
Tgt Ion: 58 Resp: 1242
Ion Ratio Lower Upper
58 100
43 304.9 274.0 411.0



#16
Carbon Disulfide
Concen: 0.476 ug/l
RT: 2.501 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Tgt Ion: 76 Resp: 1306
Ion Ratio Lower Upper
76 100
78 10.1 7.6 11.4





#18

Methylene Chloride

Concen: 0.264 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

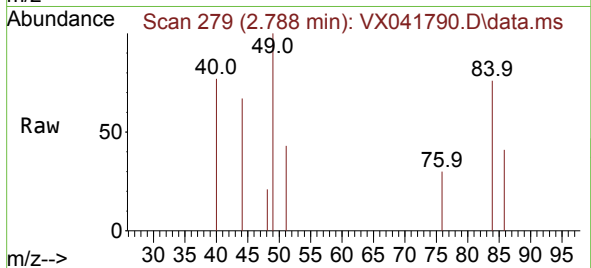
Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 382

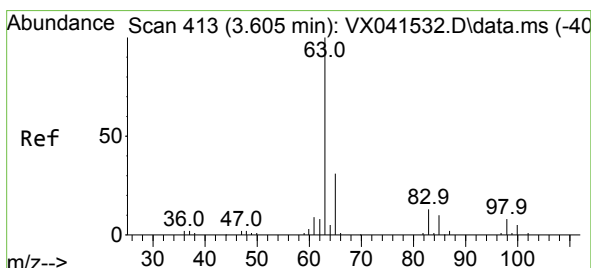
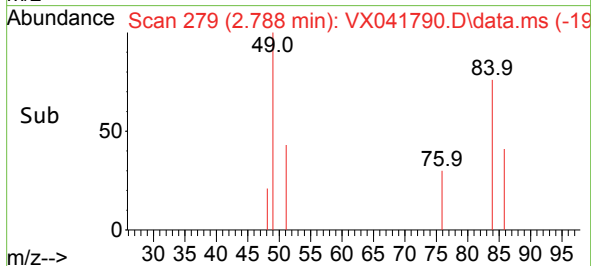
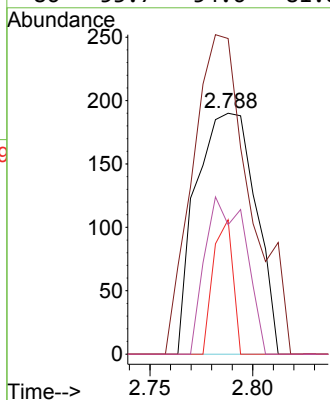
Ion Ratio Lower Upper

84 100

49 94.7 99.8 149.8#

51 55.8 30.2 45.4#

86 53.7 54.6 81.8#



#21

1,1-Dichloroethane

Concen: 0.923 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

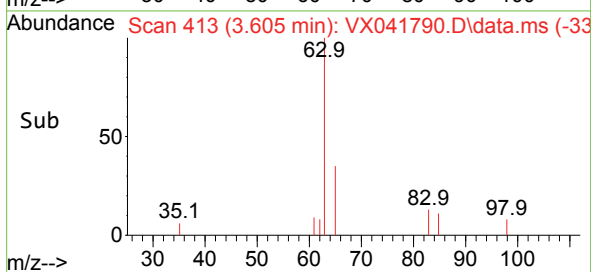
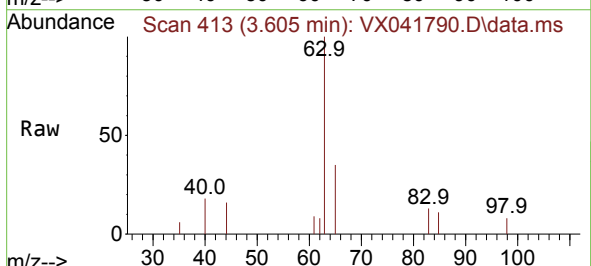
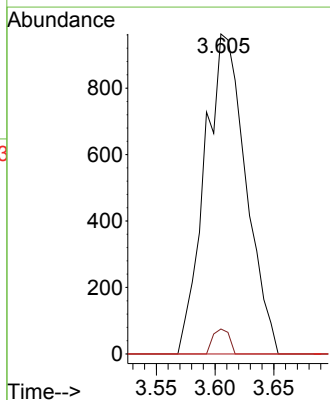
Tgt Ion: 63 Resp: 2345

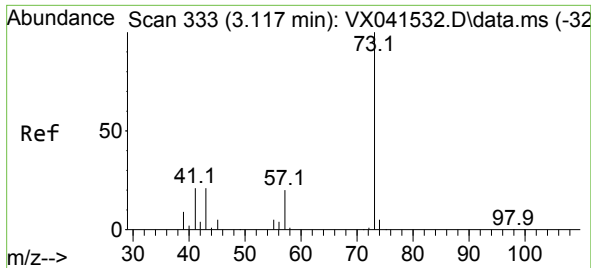
Ion Ratio Lower Upper

63 100

98 7.8 3.8 11.4

100 0.0 2.5 7.4#

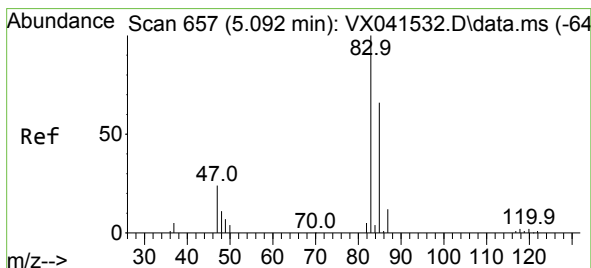
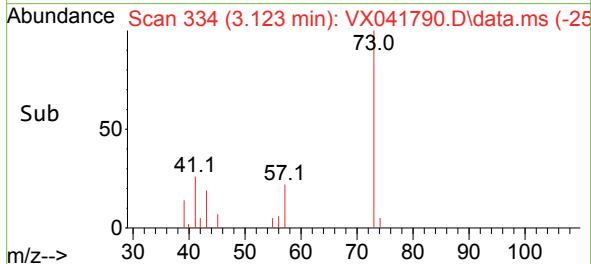
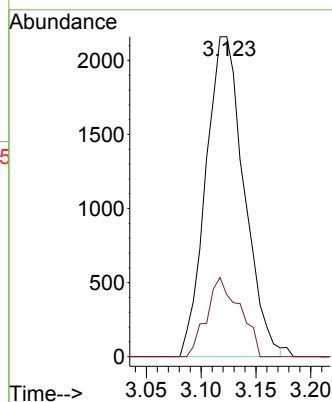
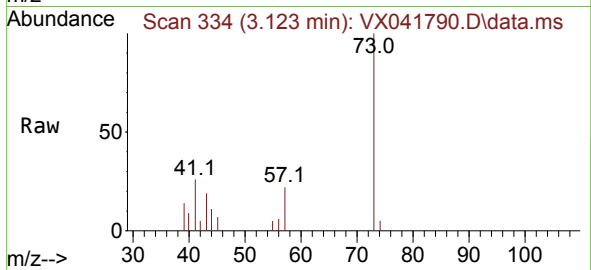




#24
Methyl tert-Butyl Ether
Concen: 1.153 ug/l
RT: 3.123 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

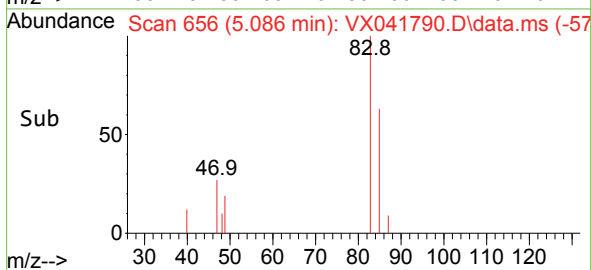
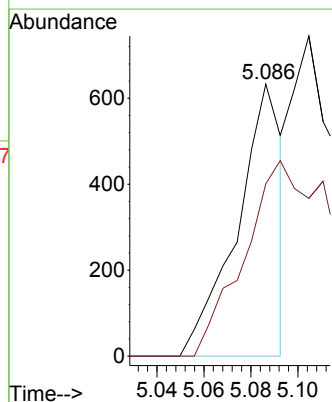
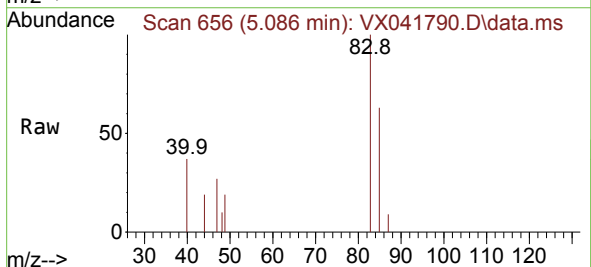
Instrument :
MSVOA_X
ClientSampleId :

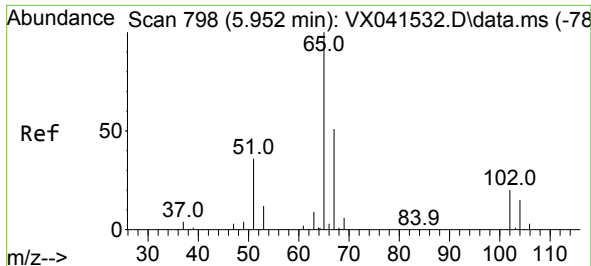
Tgt Ion: 73 Resp: 5229
Ion Ratio Lower Upper
73 100
43 21.4 17.2 25.8



#25
Chloroform
Concen: 0.311 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.006 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Tgt Ion: 83 Resp: 841
Ion Ratio Lower Upper
83 100
85 63.3 52.9 79.3





#27

1,2-Dichloroethane-d4

Concen: 31.923 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

Instrument :

MSVOA_X

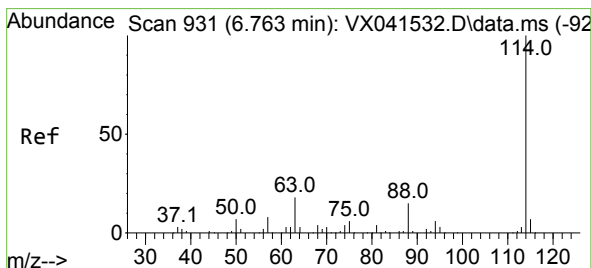
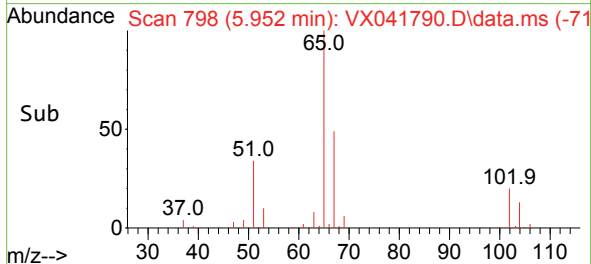
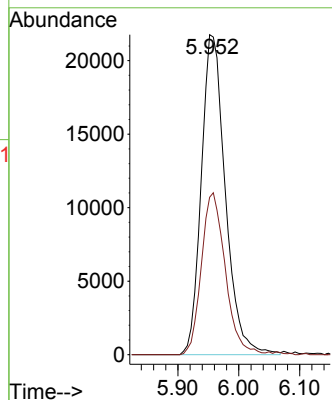
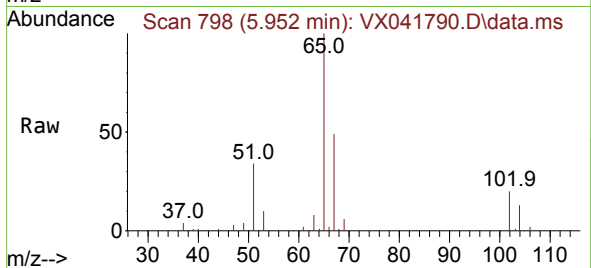
ClientSampleId :

Tgt Ion: 65 Resp: 59682

Ion Ratio Lower Upper

65 100

67 50.2 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

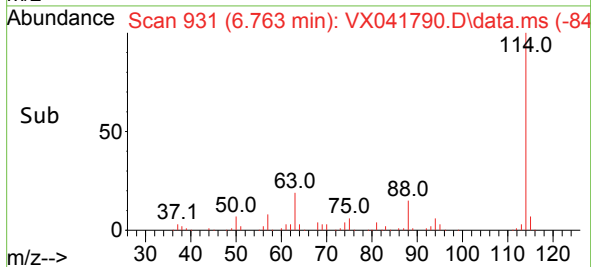
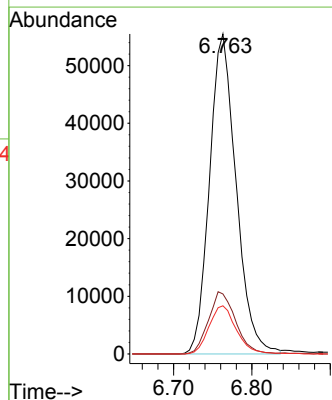
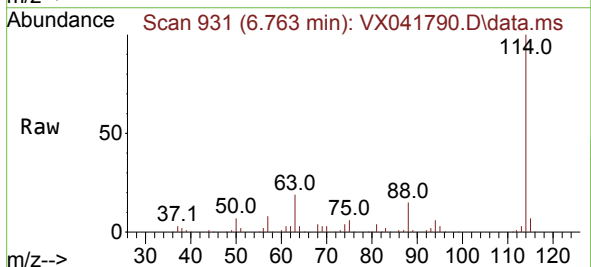
Tgt Ion: 114 Resp: 131061

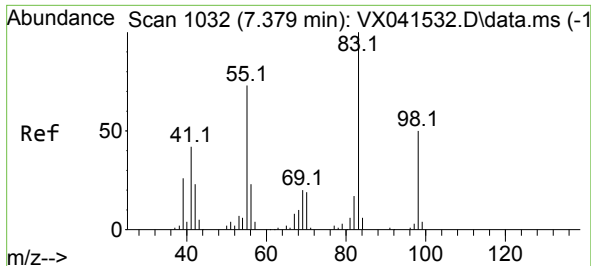
Ion Ratio Lower Upper

114 100

63 19.7 15.4 23.0

88 15.4 12.2 18.2

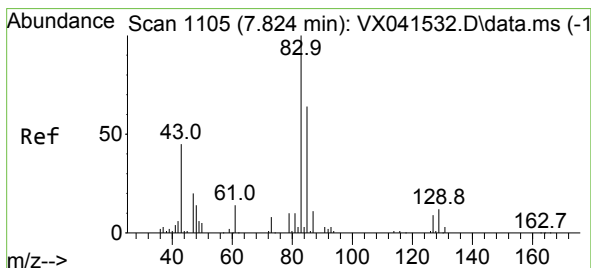
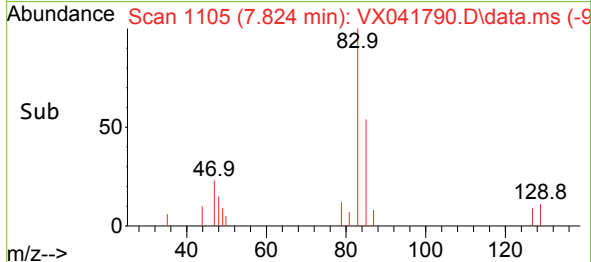
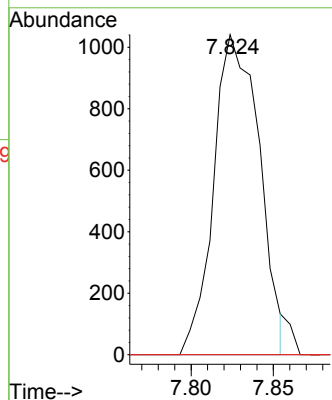
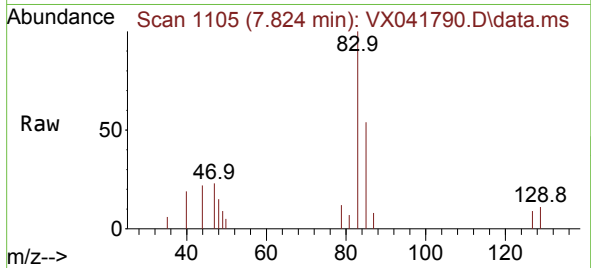




#38
Methylcyclohexane
Concen: 0.912 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.445 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

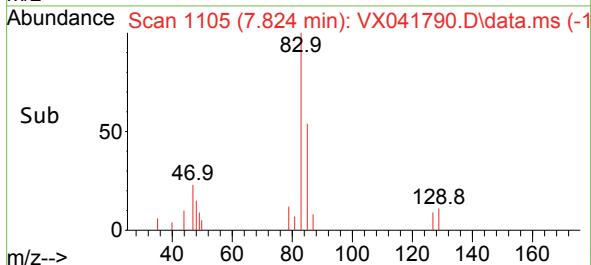
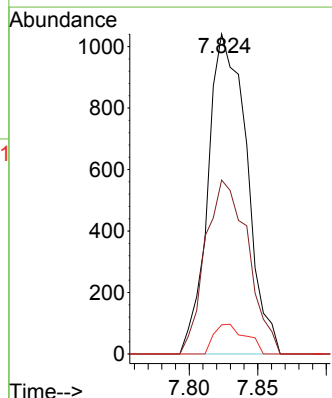
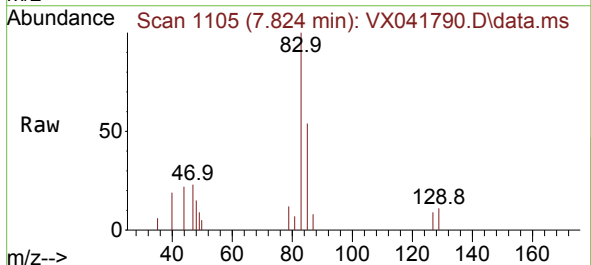
Instrument :
MSVOA_X
ClientSampleId :

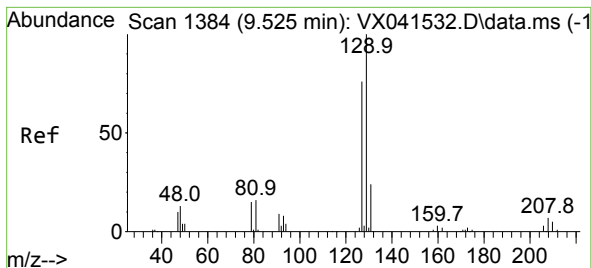
Tgt Ion: 83 Resp: 2008
Ion Ratio Lower Upper
83 100
55 0.0 37.7 113.1#
98 0.0 25.1 75.3#



#41
Bromodichloromethane
Concen: 1.068 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Tgt Ion: 83 Resp: 2043
Ion Ratio Lower Upper
83 100
85 54.4 51.0 76.4
127 9.1 7.1 10.7





#53

Dibromochloromethane

Concen: 1.163 ug/l

RT: 9.525 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

Instrument :

MSVOA_X

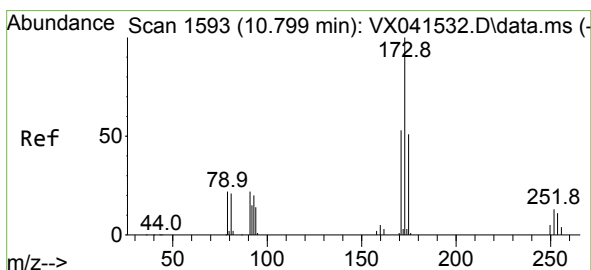
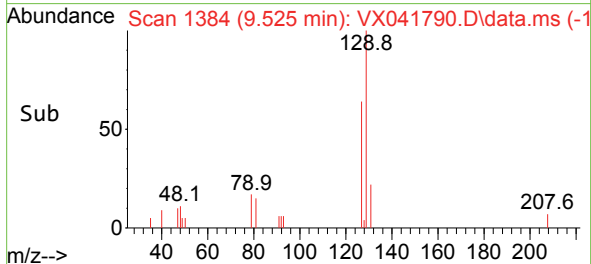
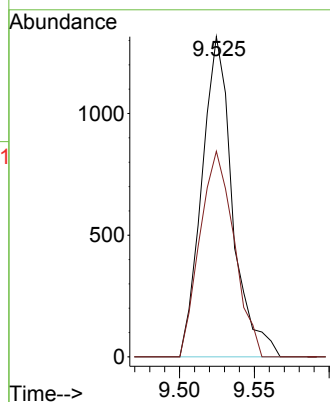
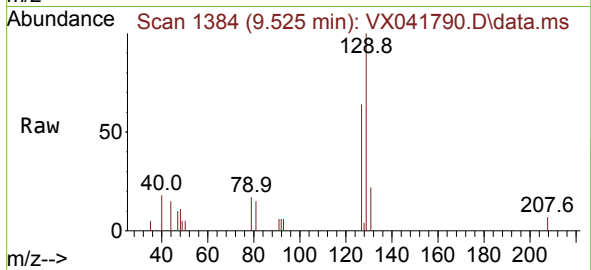
ClientSampleId :

Tgt Ion:129 Resp: 1875

Ion Ratio Lower Upper

129 100

127 71.7 38.9 116.7



#56

Bromoform

Concen: 0.205 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

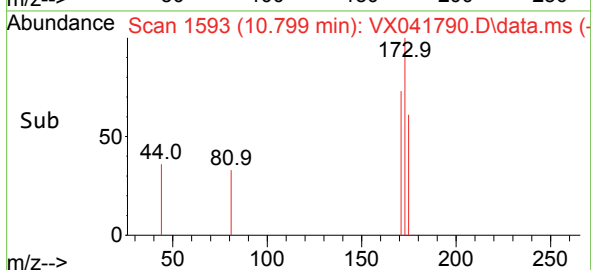
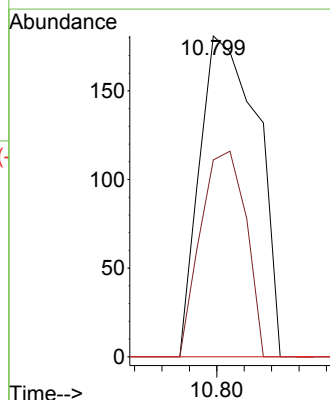
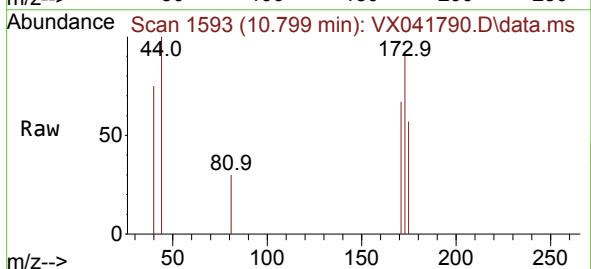
Tgt Ion:173 Resp: 265

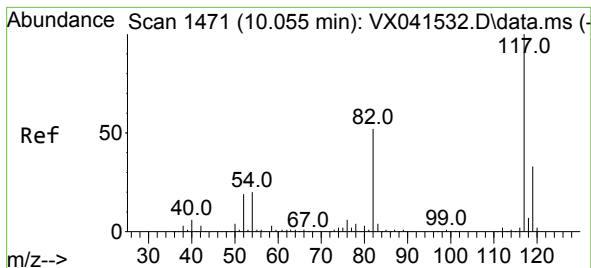
Ion Ratio Lower Upper

173 100

175 50.6 39.0 58.6

254 0.0 10.3 15.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

Instrument :

MSVOA_X

ClientSampleId :

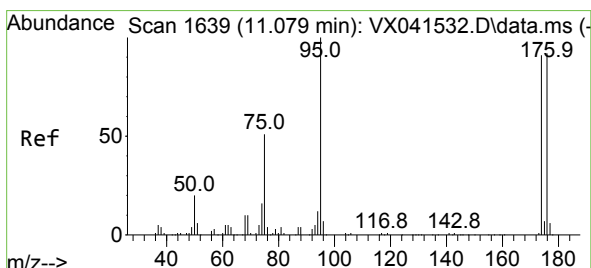
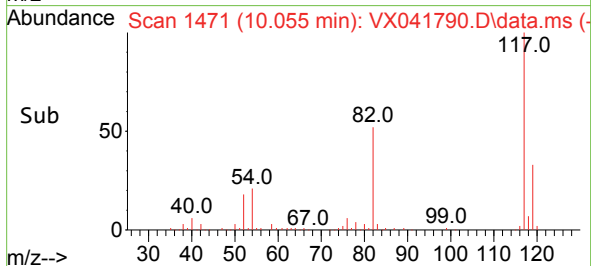
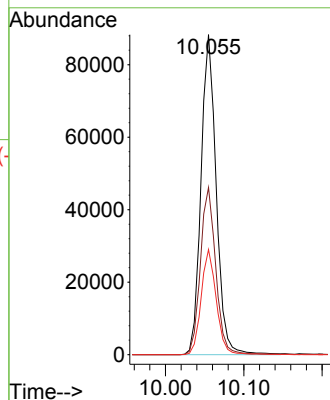
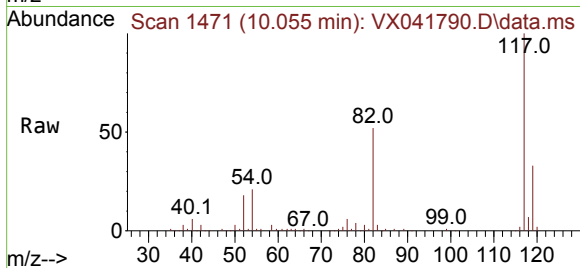
Tgt Ion:117 Resp: 119236

Ion Ratio Lower Upper

117 100

82 52.7 41.7 62.5

119 32.7 25.7 38.5



#60

4-Bromofluorobenzene

Concen: 27.166 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX041790.D

Acq: 07 Jun 2024 15:00

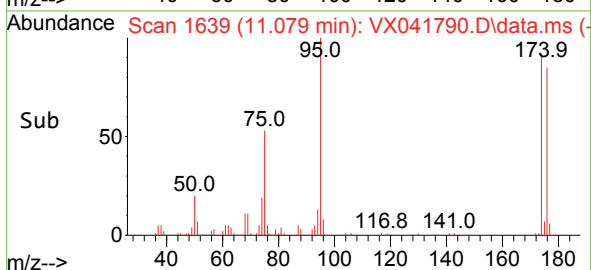
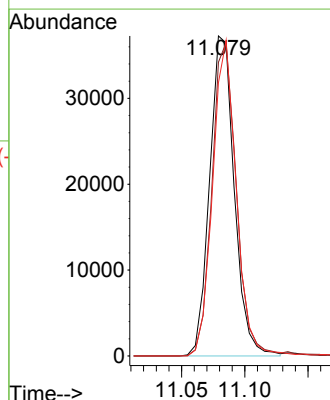
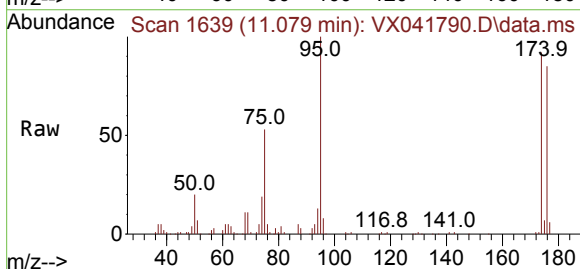
Tgt Ion: 95 Resp: 50565

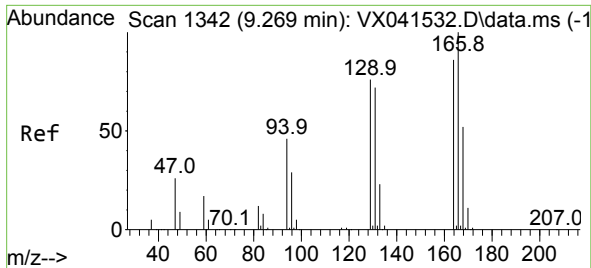
Ion Ratio Lower Upper

95 100

174 96.7 76.6 115.0

176 94.6 75.4 113.0



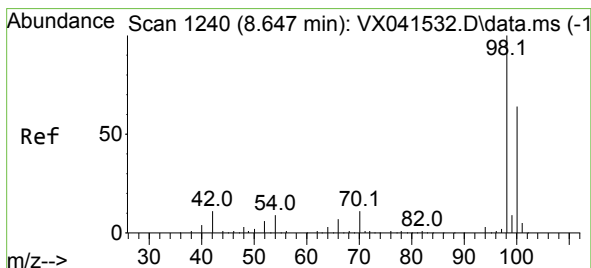
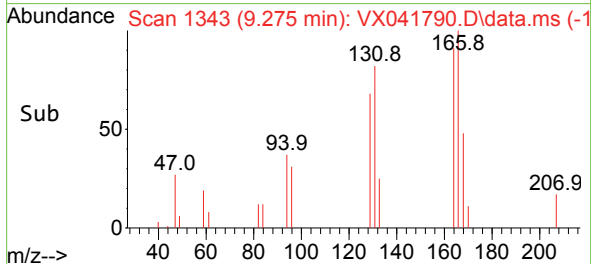
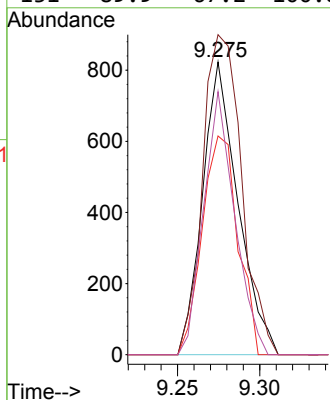
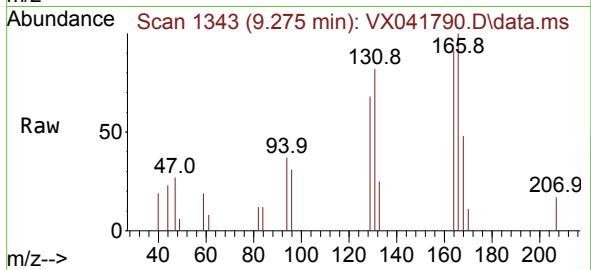


#61
Tetrachloroethene
Concen: 0.845 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:164 Resp: 1232

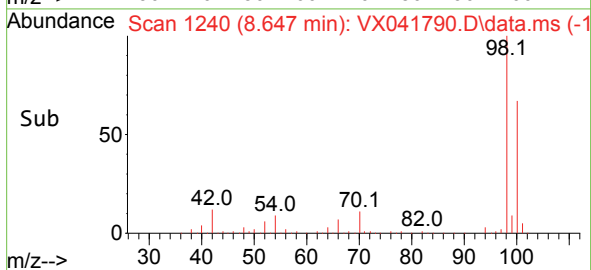
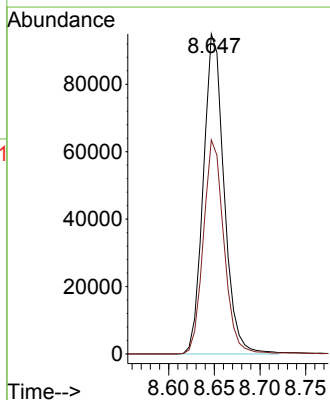
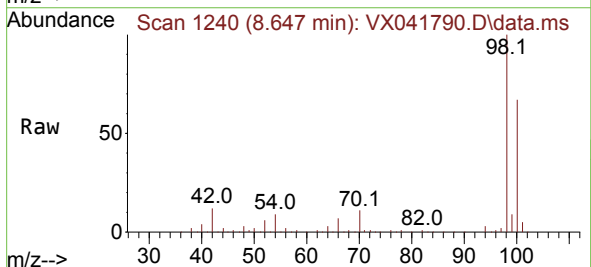
Ion	Ratio	Lower	Upper
164	100		
166	109.4	92.8	139.2
129	74.7	70.1	105.1
131	89.9	67.2	100.8

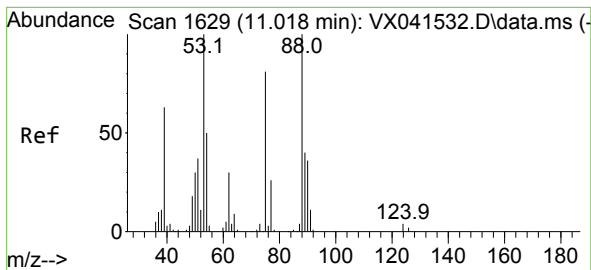


#63
Toluene-d8
Concen: 29.252 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041790.D
Acq: 07 Jun 2024 15:00

Tgt Ion: 98 Resp: 149512

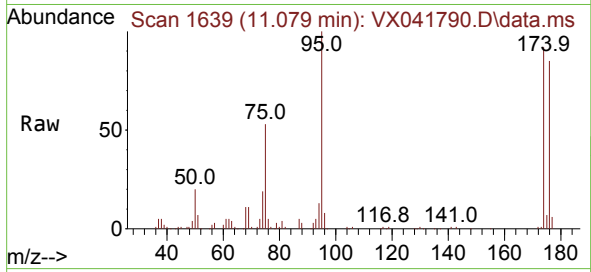
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.1	79.7





#77
 t-1,4-Dichloro-2-butene
 Concen: 40.694 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX041790.D
 Acq: 07 Jun 2024 15:00

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion: 75 Resp: 25966
 Ion Ratio Lower Upper
 75 100
 53 0.0 61.8 185.3#
 89 0.0 24.9 74.7#

