

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041888.D
 Acq On : 14 Jun 2024 19:21
 Operator : JC/MD
 Sample : P2866-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240607022-01

Quant Time: Jun 15 04:15:43 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)

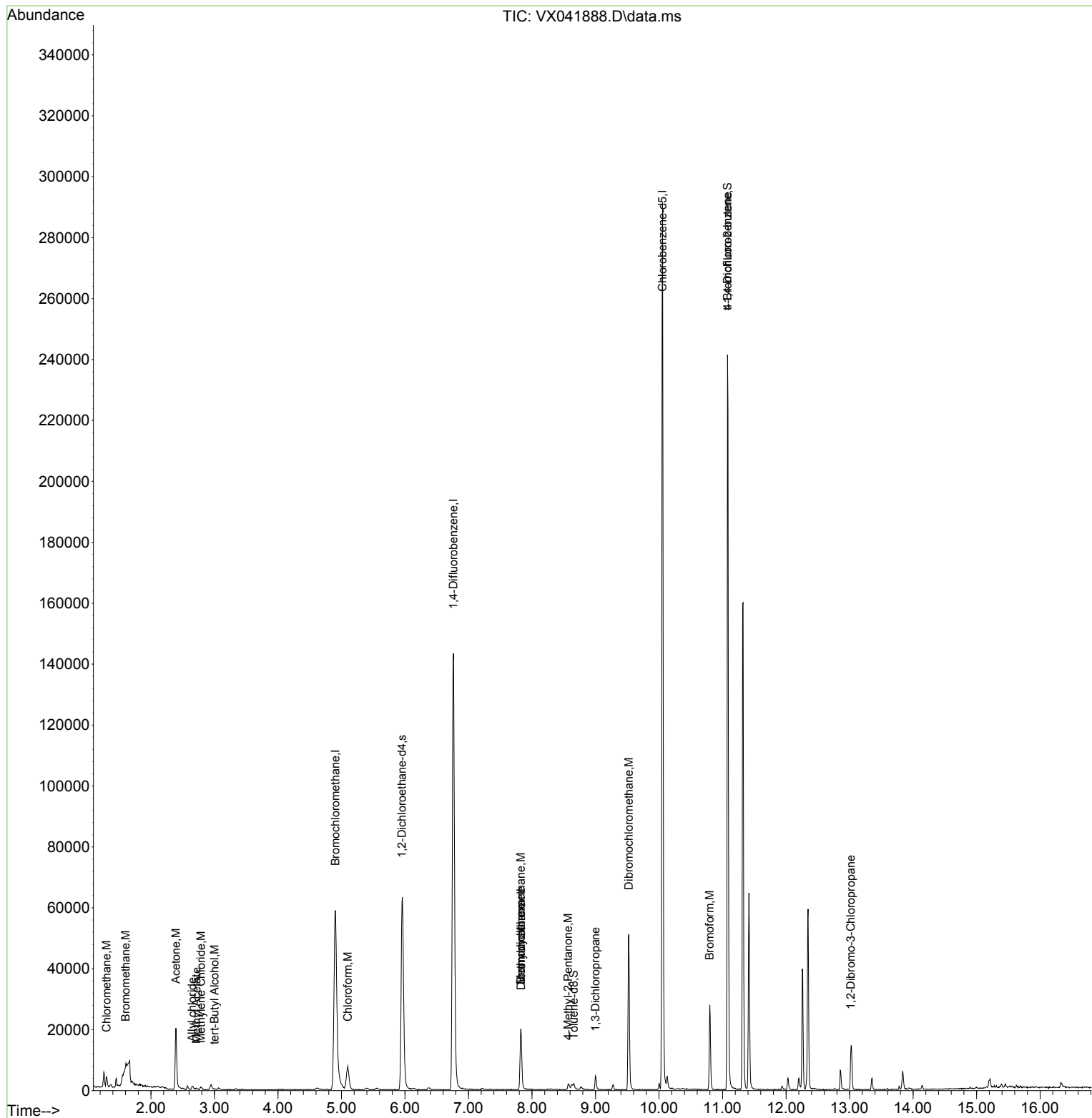
Internal Standards						
1) Bromochloromethane	4.904	128	30182	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	162277	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	148703	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	61093	29.404	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.000%
60) 4-Bromofluorobenzene	11.079	95	63753	27.697	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.333%
63) Toluene-d8	8.659	98	1579	0.248	ug/l	0.01
Spiked Amount	30.000	Range	91 - 112	Recovery	=	0.8333%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	3325	1.522	ug/l	96
5) Bromomethane	1.599	94	457	0.400	ug/l	83
12) Methyl Acetate	2.715	43	550	0.234	ug/l	98
15) Acetone	2.392	58	7192	22.524	ug/l	92
17) Allyl chloride	2.648	41	1375	0.491	ug/l #	44
18) Methylene Chloride	2.788	84	471	0.223	ug/l #	70
23) tert-Butyl Alcohol	3.001	59	351	0.846	ug/l #	100
25) Chloroform	5.099	83	9468	2.832	ug/l	94
38) Methylcyclohexane	7.824	83	13416	4.782	ug/l #	18
40) Dibromomethane	7.830	93	371	0.298	ug/l #	1
41) Bromodichloromethane	7.824	83	13938	6.258	ug/l	95
52) 1,3-Dichloropropane	9.000	76	741	0.251	ug/l #	42
53) Dibromochloromethane	9.525	129	25033	12.654	ug/l	98
56) Bromoform	10.799	173	11347	7.034	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	2784	1.045	ug/l #	41
77) t-1,4-Dichloro-2-butene	11.079	75	29424	34.206	ug/l #	7
88) 1,2-Dibromo-3-Chloropr...	13.018	75	353	0.594	ug/l #	1

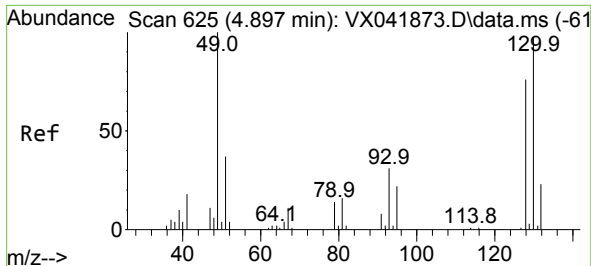
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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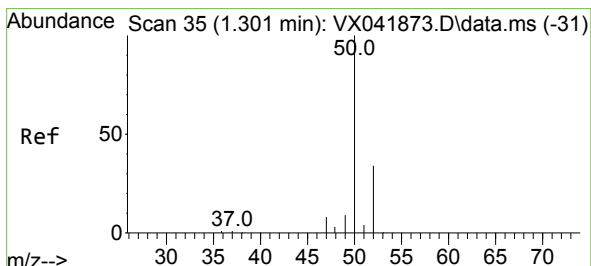
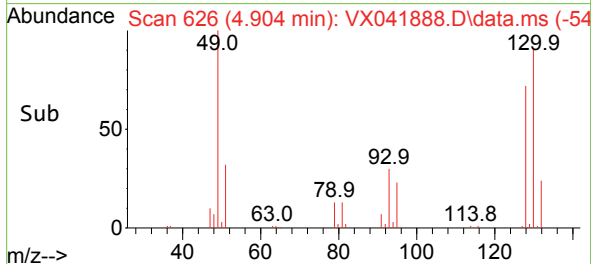
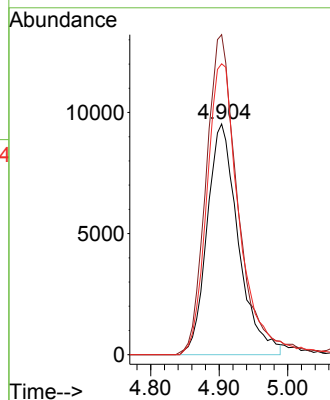
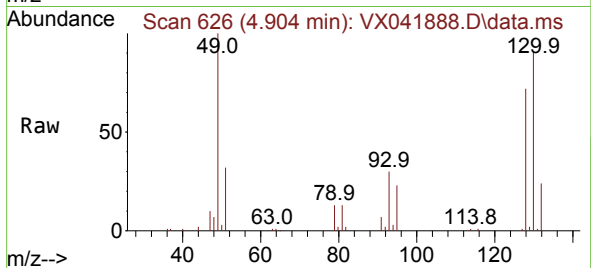




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

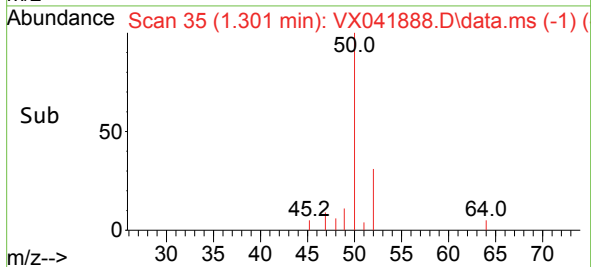
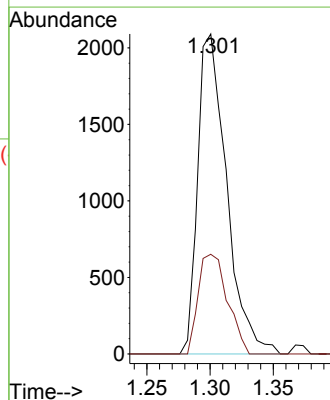
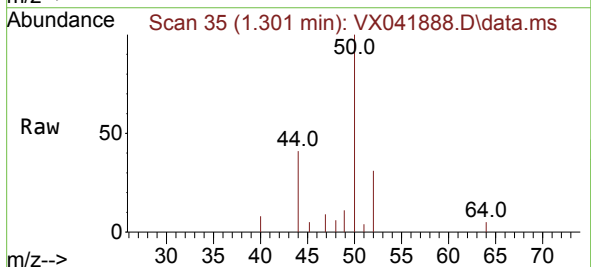
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

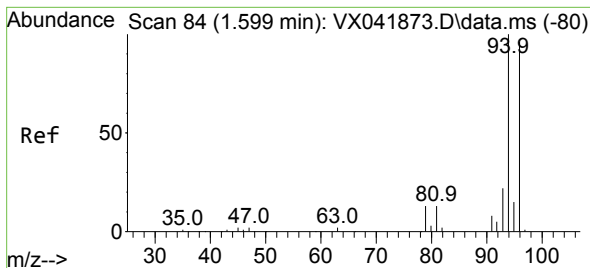
Tgt Ion:128 Resp: 30182
Ion Ratio Lower Upper
128 100
49 139.3 0.0 338.5
130 131.1 0.0 324.5



#3
Chloromethane
Concen: 1.522 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion: 50 Resp: 3325
Ion Ratio Lower Upper
50 100
52 31.1 26.9 40.3





#5

Bromomethane

Concen: 0.400 ug/l

RT: 1.599 min Scan# 84

Delta R.T. 0.000 min

Lab File: VX041888.D

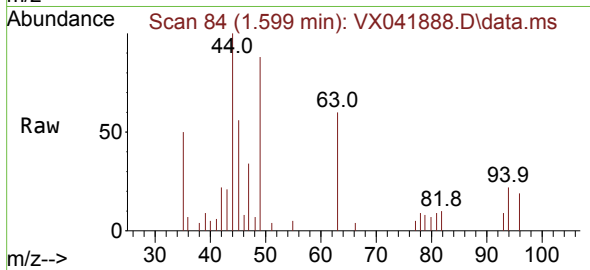
Acq: 14 Jun 2024 19:21

Instrument :

MSVOA_X

ClientSampleId :

240607022-01

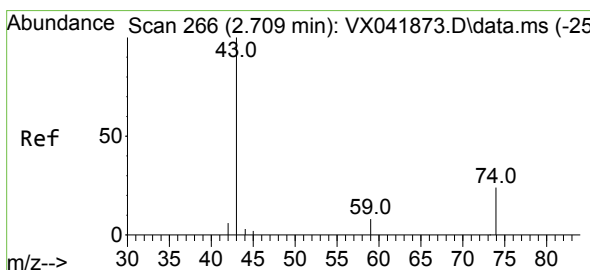
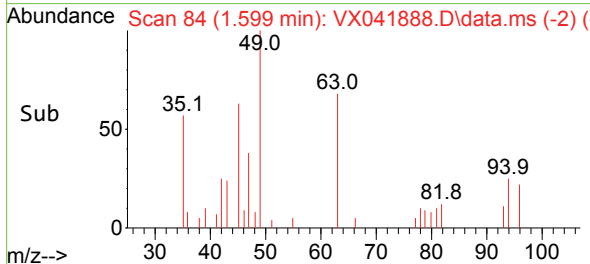
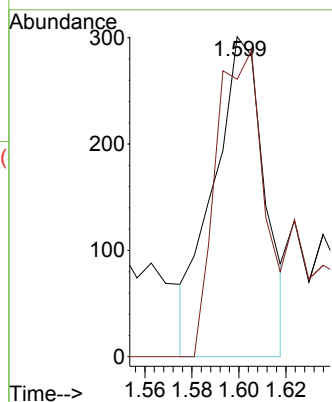


Tgt Ion: 94 Resp: 457

Ion Ratio Lower Upper

94 100

96 112.0 76.6 115.0



#12

Methyl Acetate

Concen: 0.234 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.006 min

Lab File: VX041888.D

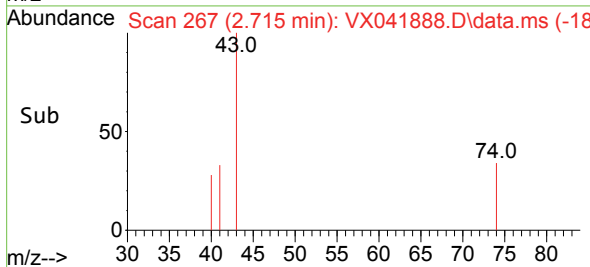
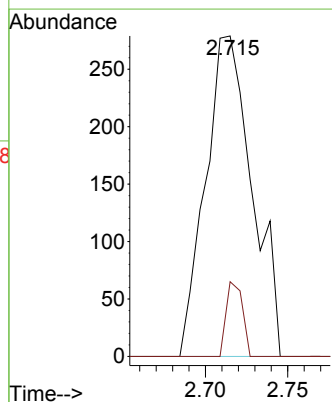
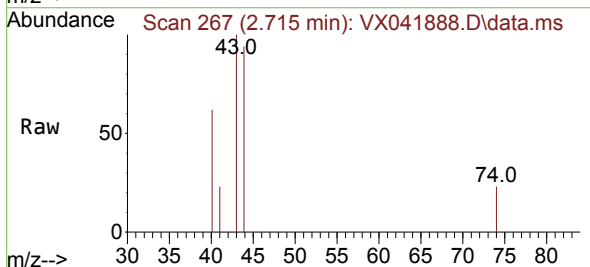
Acq: 14 Jun 2024 19:21

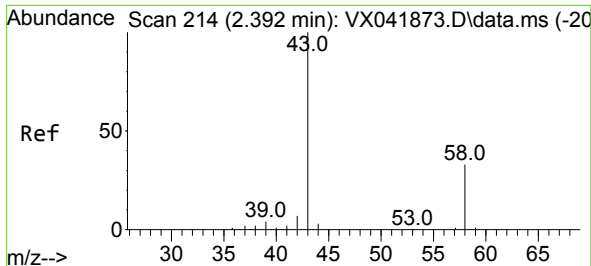
Tgt Ion: 43 Resp: 550

Ion Ratio Lower Upper

43 100

74 23.3 19.4 29.2

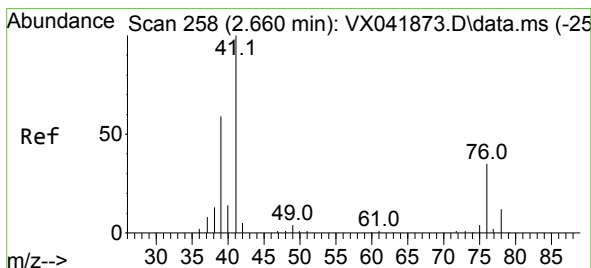
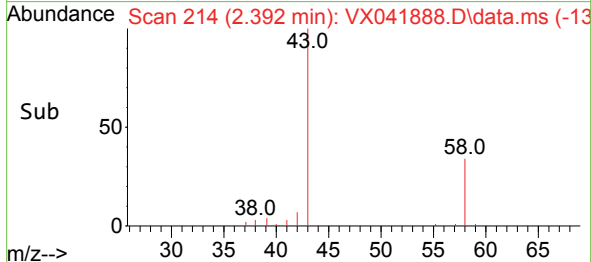
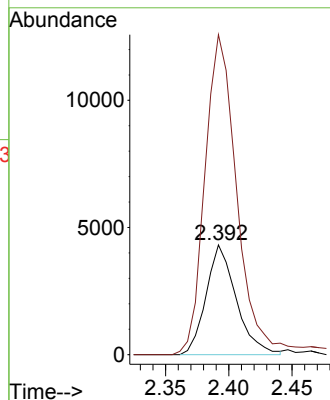
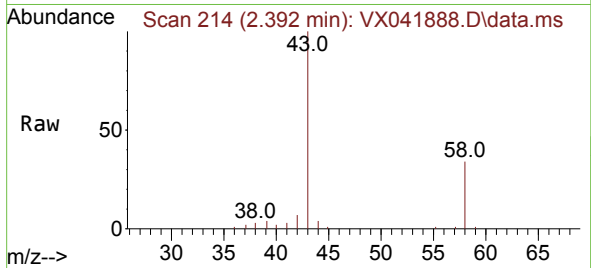




#15
Acetone
Concen: 22.524 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

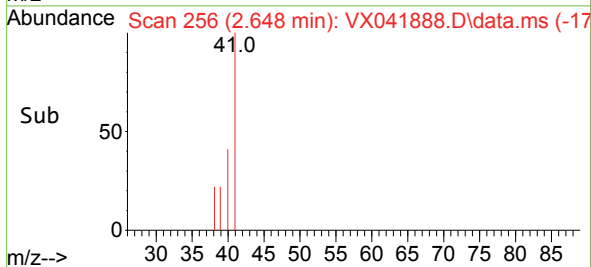
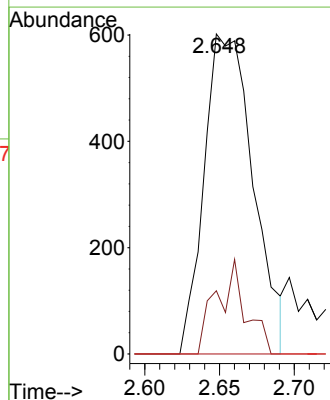
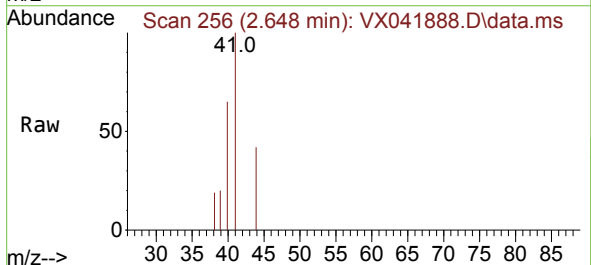
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

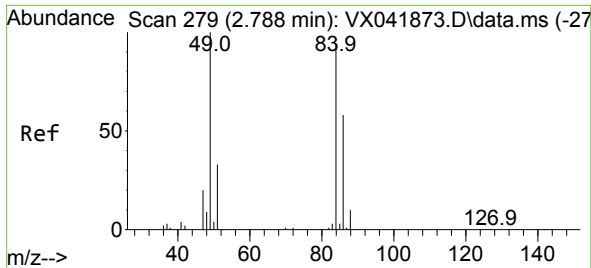
Tgt Ion: 58 Resp: 7192
Ion Ratio Lower Upper
58 100
43 288.6 243.4 365.2



#17
Allyl chloride
Concen: 0.491 ug/l
RT: 2.648 min Scan# 256
Delta R.T. -0.012 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion: 41 Resp: 1375
Ion Ratio Lower Upper
41 100
39 19.8 29.6 88.8#
76 0.0 18.1 54.4#

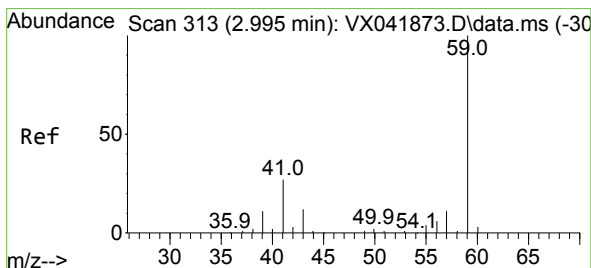
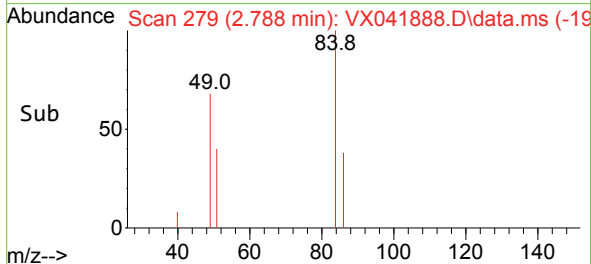
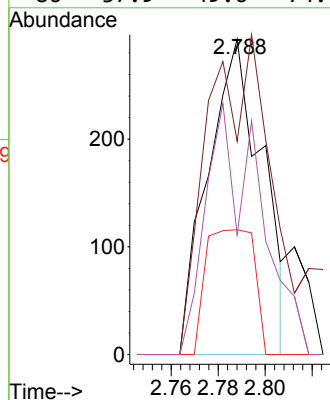
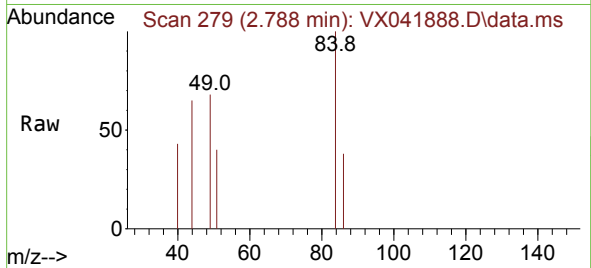




#18
Methylene Chloride
Concen: 0.223 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

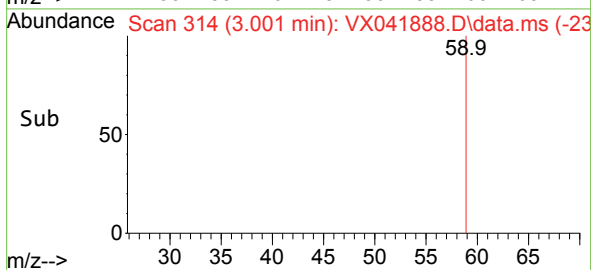
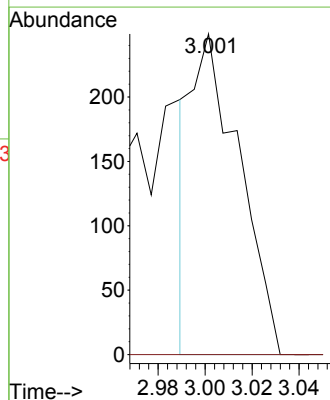
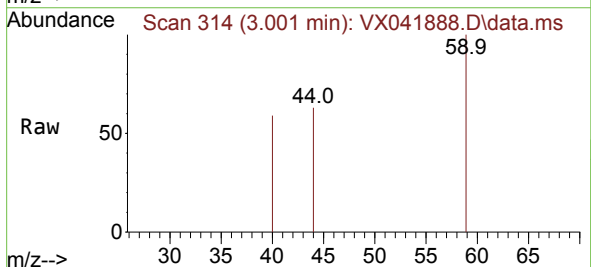
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

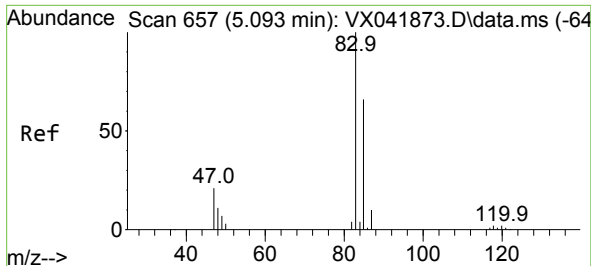
Tgt Ion:	84	Resp:	471
Ion	Ratio	Lower	Upper
84	100		
49	67.6	85.3	127.9#
51	39.6	28.5	42.7
86	37.9	49.6	74.4#



#23
tert-Butyl Alcohol
Concen: 0.846 ug/l
RT: 3.001 min Scan# 314
Delta R.T. 0.006 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion:	59	Resp:	351
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

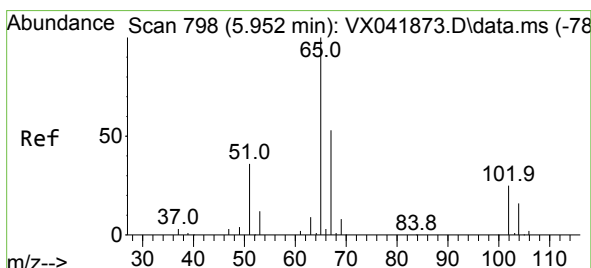
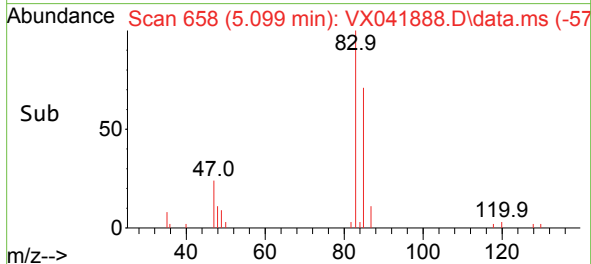
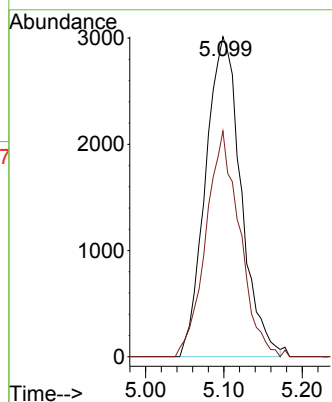
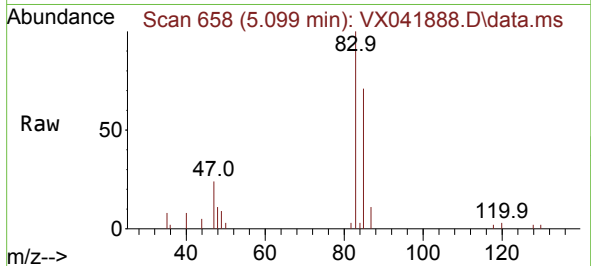




#25
Chloroform
Concen: 2.832 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

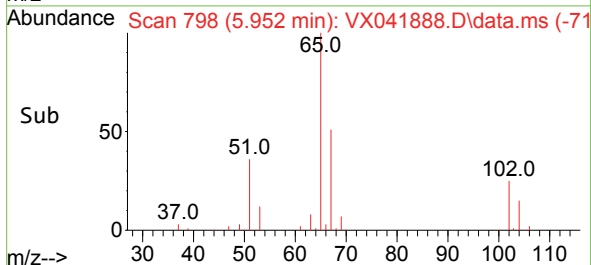
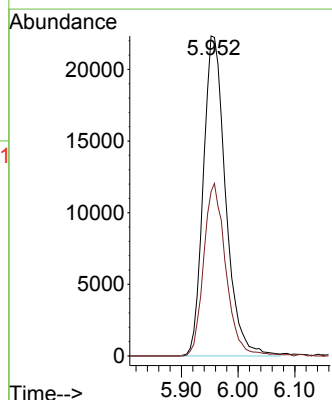
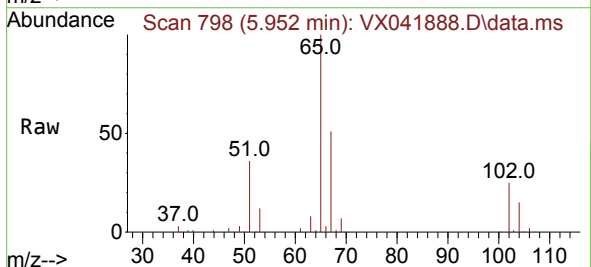
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

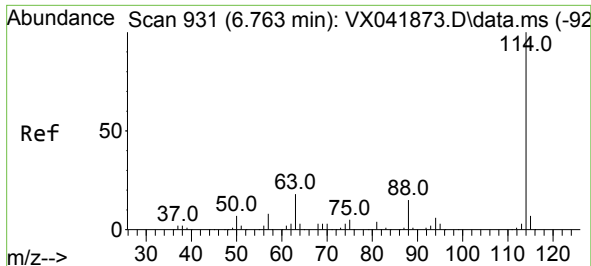
Tgt Ion: 83 Resp: 9468
Ion Ratio Lower Upper
83 100
85 70.5 52.7 79.1



#27
1,2-Dichloroethane-d4
Concen: 29.404 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion: 65 Resp: 61093
Ion Ratio Lower Upper
65 100
67 53.3 43.4 65.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX041888.D

Acq: 14 Jun 2024 19:21

Instrument :

MSVOA_X

ClientSampleId :

240607022-01

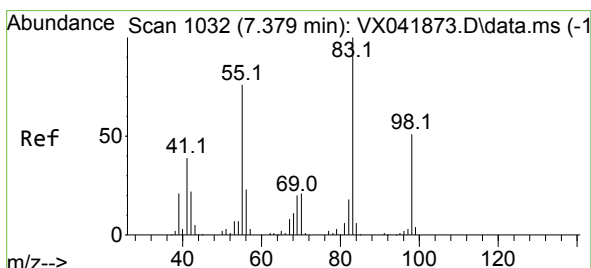
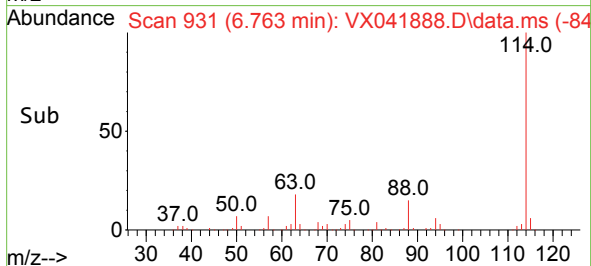
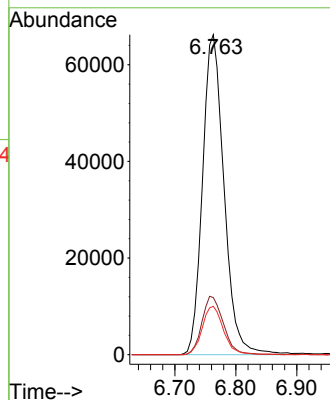
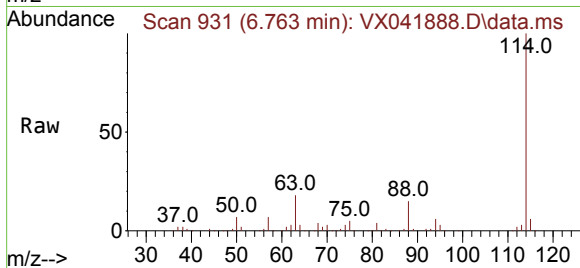
Tgt Ion:114 Resp: 162277

Ion Ratio Lower Upper

114 100

63 18.2 14.6 21.8

88 14.9 11.8 17.8



#38

Methylcyclohexane

Concen: 4.782 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.445 min

Lab File: VX041888.D

Acq: 14 Jun 2024 19:21

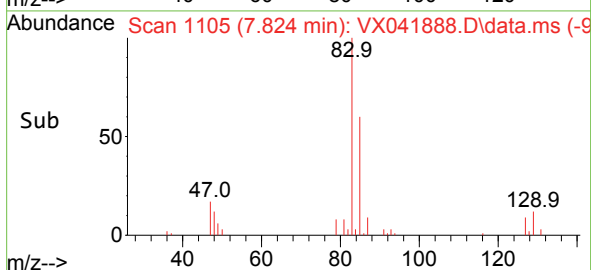
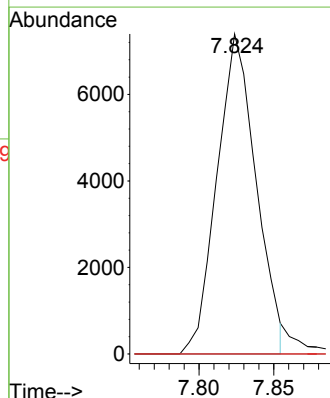
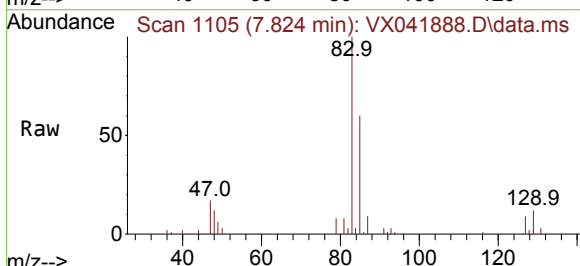
Tgt Ion: 83 Resp: 13416

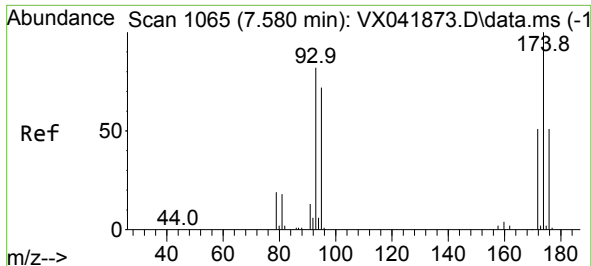
Ion Ratio Lower Upper

83 100

55 0.0 37.3 111.9#

98 0.0 24.8 74.4#

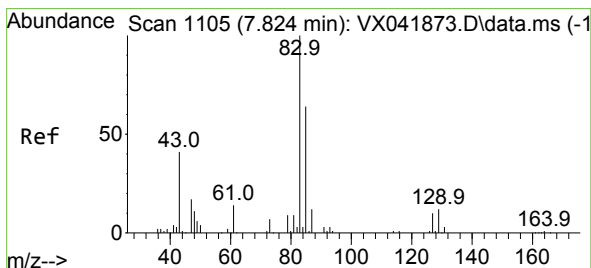
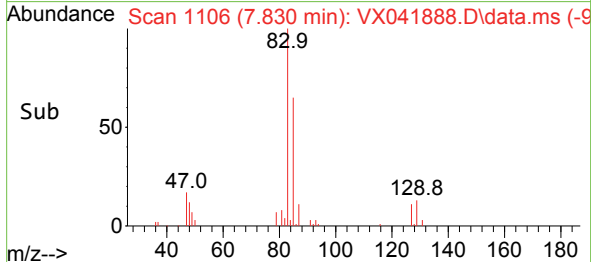
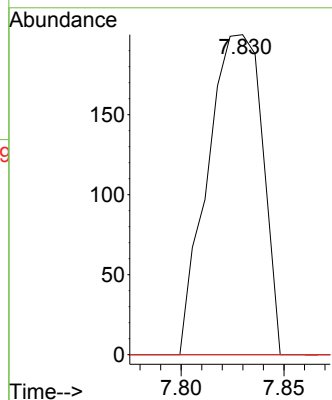
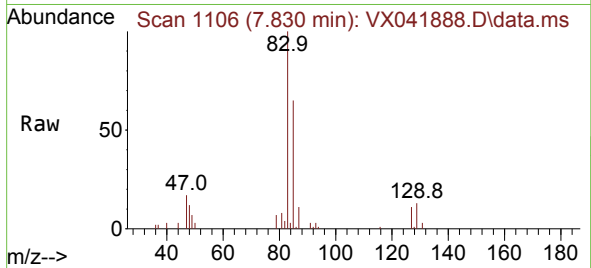




#40
Dibromomethane
Concen: 0.298 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.250 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

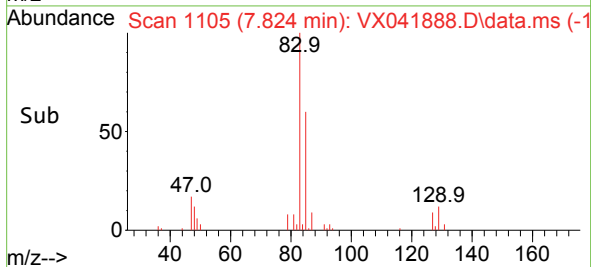
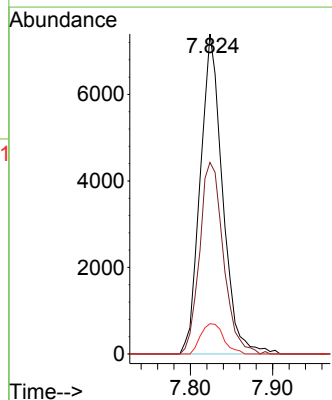
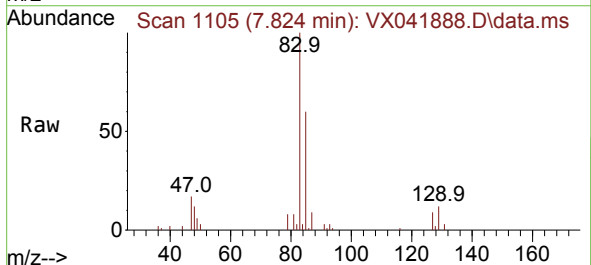
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

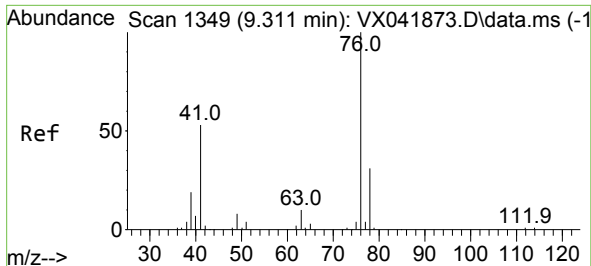
Tgt Ion: 93 Resp: 371
Ion Ratio Lower Upper
93 100
95 0.0 0.0 168.6
174 0.0 0.0 255.0



#41
Bromodichloromethane
Concen: 6.258 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion: 83 Resp: 13938
Ion Ratio Lower Upper
83 100
85 59.9 51.1 76.7
127 9.4 8.1 12.1





#52

1,3-Dichloropropane

Concen: 0.251 ug/l

RT: 9.000 min Scan# 11

Delta R.T. -0.311 min

Lab File: VX041888.D

Acq: 14 Jun 2024 19:21

Instrument :

MSVOA_X

ClientSampleId :

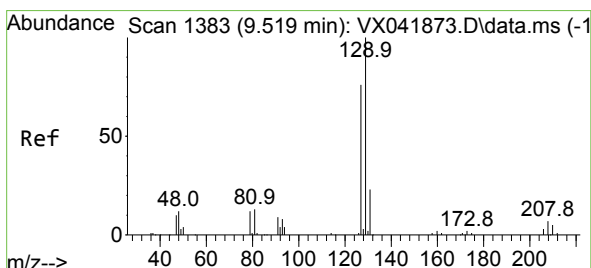
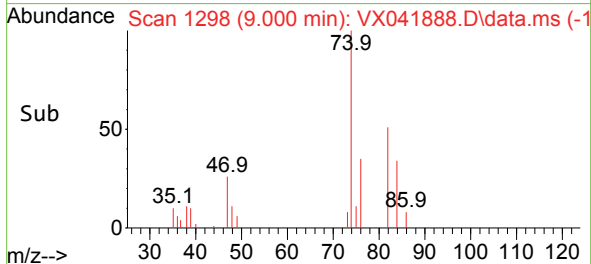
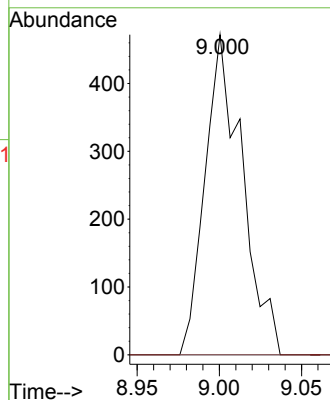
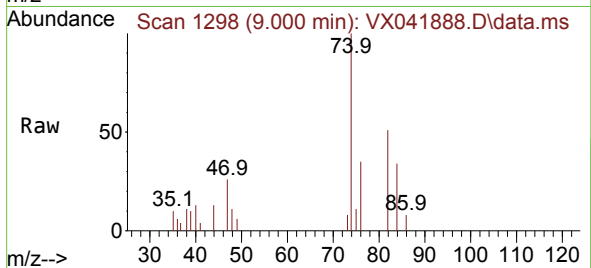
240607022-01

Tgt Ion: 76 Resp: 741

Ion Ratio Lower Upper

76 100

78 0.0 0.0 66.0



#53

Dibromochloromethane

Concen: 12.654 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX041888.D

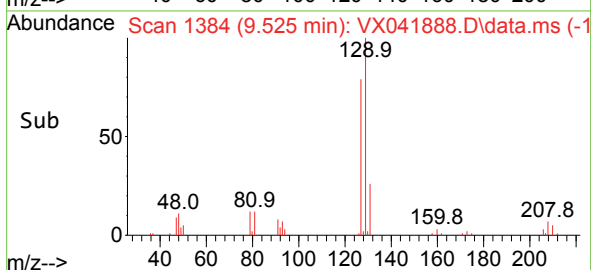
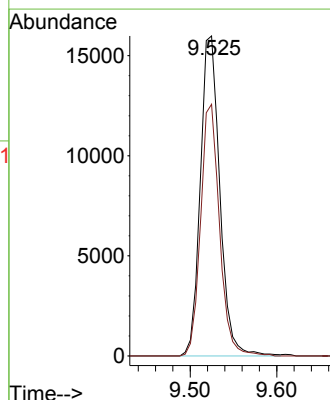
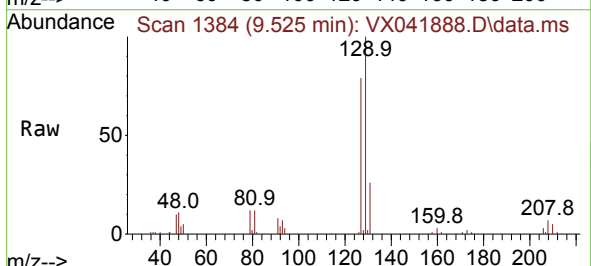
Acq: 14 Jun 2024 19:21

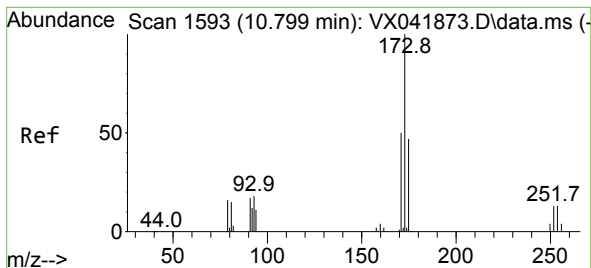
Tgt Ion: 129 Resp: 25033

Ion Ratio Lower Upper

129 100

127 76.0 38.8 116.4





#56

Bromoform

Concen: 7.034 ug/l

RT: 10.799 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX041888.D

Acq: 14 Jun 2024 19:21

Instrument :

MSVOA_X

ClientSampleId :

240607022-01

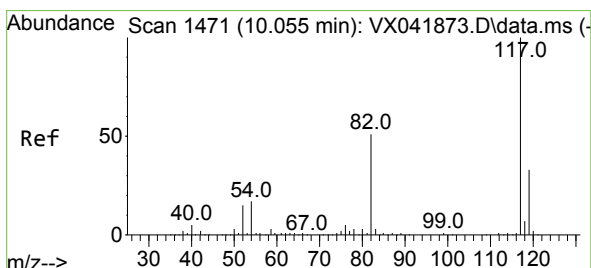
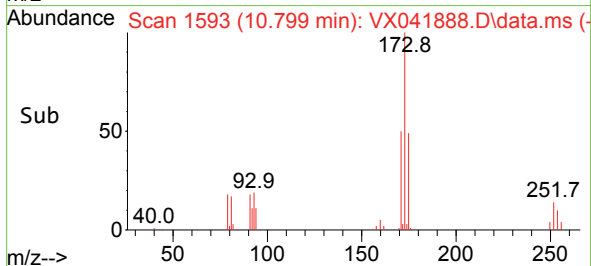
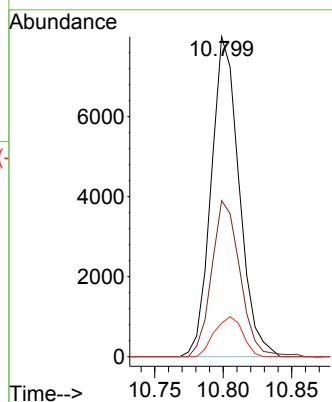
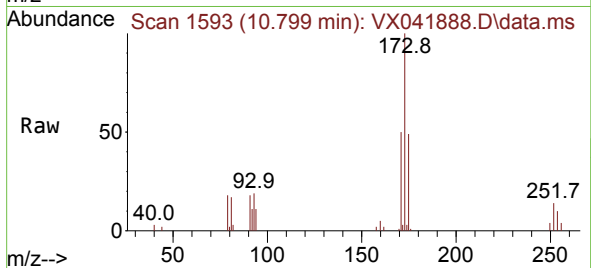
Tgt Ion:173 Resp: 11347

Ion Ratio Lower Upper

173 100

175 49.4 39.3 58.9

254 12.6 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: VX041888.D

Acq: 14 Jun 2024 19:21

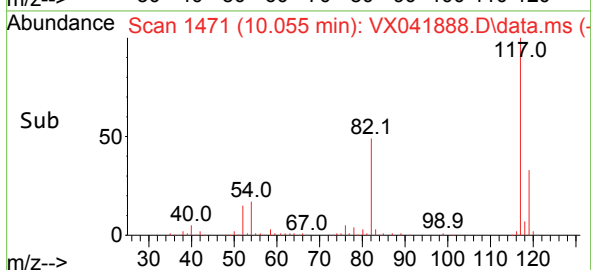
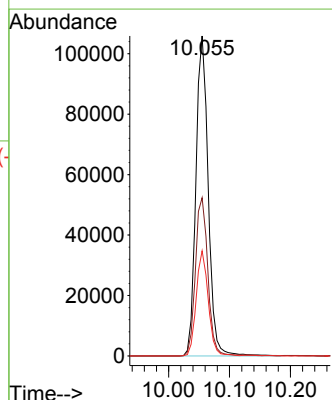
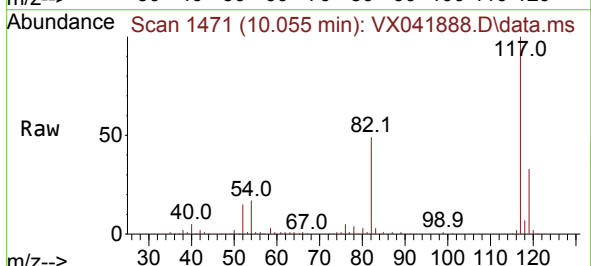
Tgt Ion:117 Resp: 148703

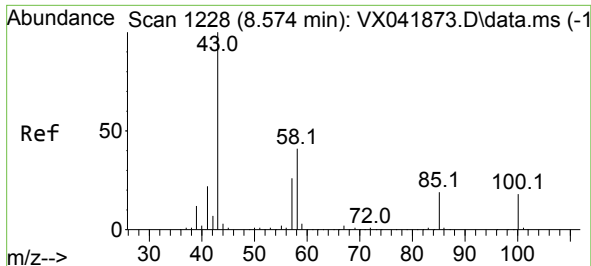
Ion Ratio Lower Upper

117 100

82 49.9 41.1 61.7

119 32.2 26.1 39.1

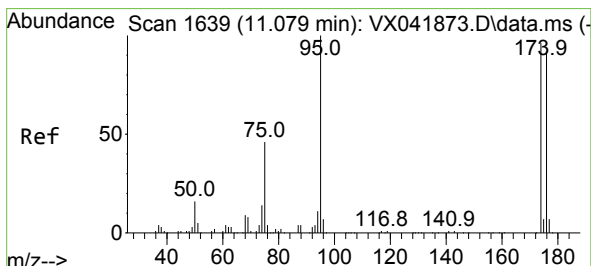
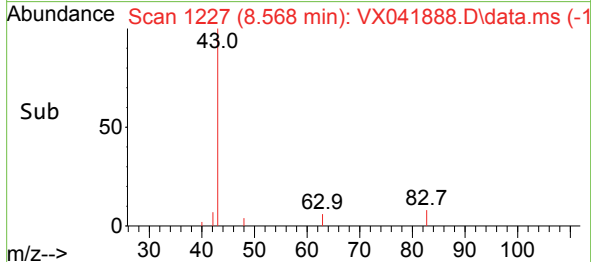
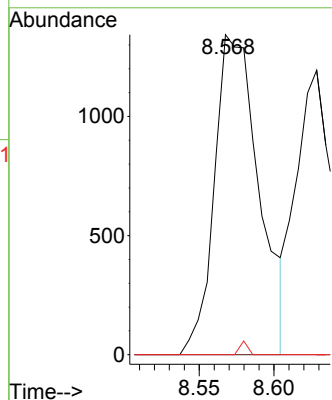
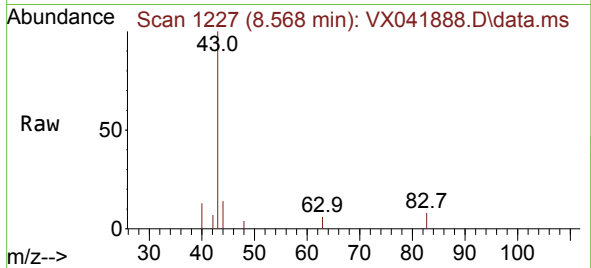




#58
4-Methyl-2-Pentanone
Concen: 1.045 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

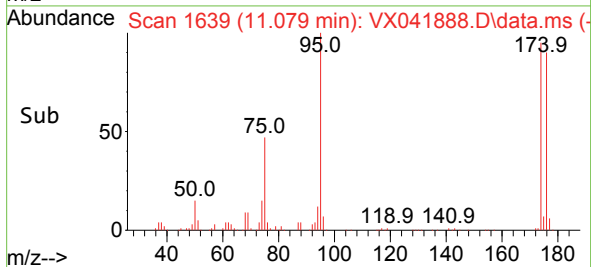
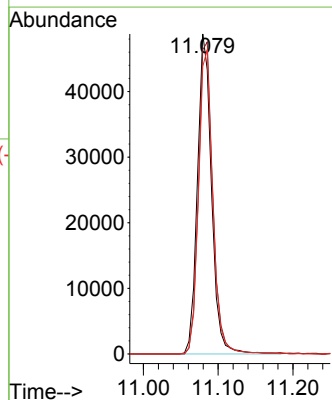
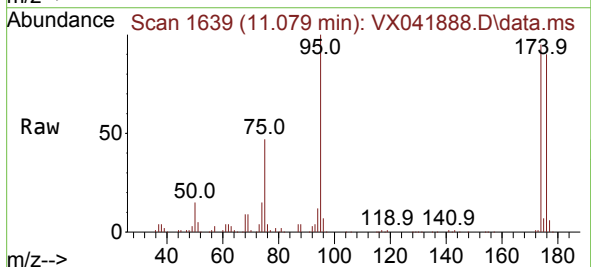
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

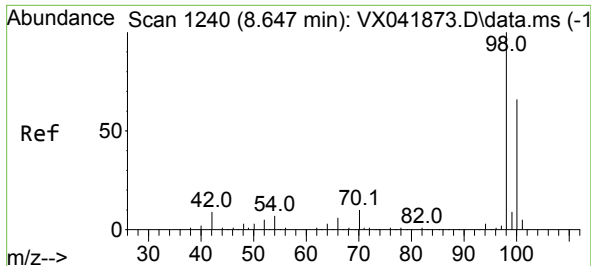
Tgt Ion: 43 Resp: 2784
Ion Ratio Lower Upper
43 100
58 0.0 33.2 49.8#
85 0.0 15.5 23.3#



#60
4-Bromofluorobenzene
Concen: 27.697 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion: 95 Resp: 63753
Ion Ratio Lower Upper
95 100
174 99.3 78.9 118.3
176 95.7 77.1 115.7

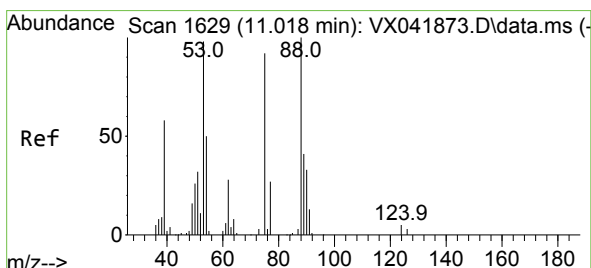
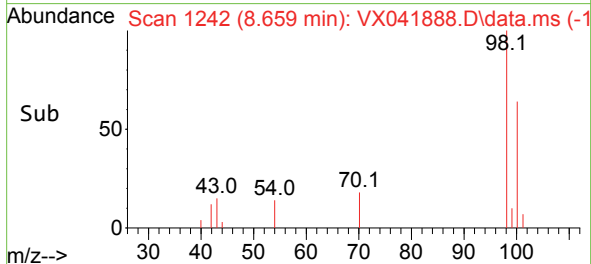
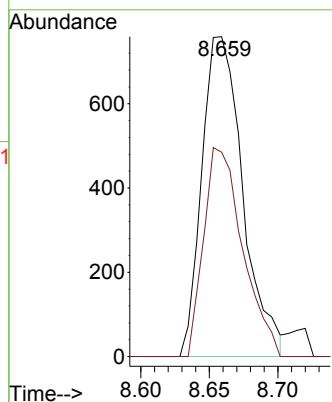
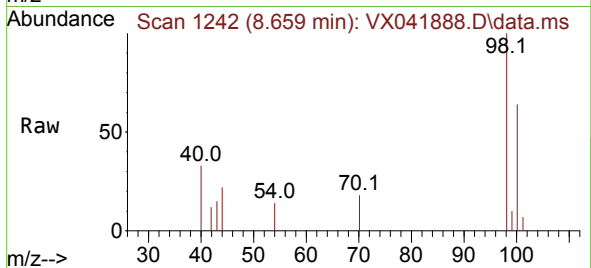




#63
Toluene-d8
Concen: 0.248 ug/l
RT: 8.659 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

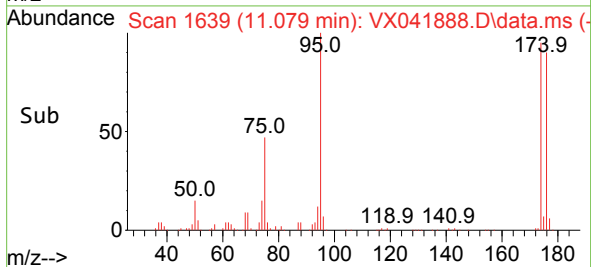
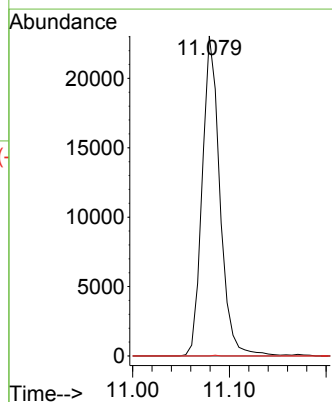
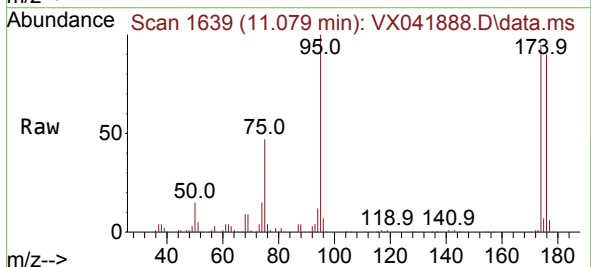
Instrument :
MSVOA_X
ClientSampleId :
240607022-01

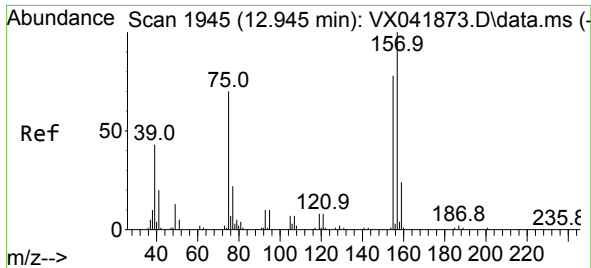
Tgt Ion: 98 Resp: 1579
Ion Ratio Lower Upper
98 100
100 62.1 52.7 79.1



#77
t-1,4-Dichloro-2-butene
Concen: 34.206 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX041888.D
Acq: 14 Jun 2024 19:21

Tgt Ion: 75 Resp: 29424
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.594 ug/l

RT: 13.018 min Scan# 1957

Delta R.T. 0.073 min

Lab File: VX041888.D

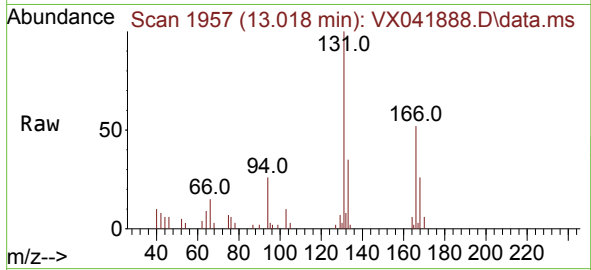
Acq: 14 Jun 2024 19:21

Instrument :

MSVOA_X

ClientSampleId :

240607022-01



Tgt Ion: 75 Resp: 353

Ion Ratio Lower Upper

75 100

155 0.0 88.6 133.0#

157 0.0 112.8 169.2#

