

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
 Data File : VU057797.D
 Acq On : 02 Feb 2024 17:17
 Operator : MD/SY
 Sample : P1187-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT1-2024

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/14/2024
 Supervised By : Mahesh Dadoda 02/14/2024

Quant Time: Feb 05 02:34:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Feb 05 02:31:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.110	96	41009	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	13584	0.875	ug/l	0.00
Spiked Amount 1.000			Recovery	=	87.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	12426	0.889	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	3026	0.231	ug/l	94
4) Vinyl Chloride	1.602	62	2793	0.209	ug/l	99
5) Bromomethane	1.856	94	1999	0.252	ug/l	99
10) Iodomethane	2.721	142	2437	0.202	ug/l	96
12) Acrylonitrile	3.364	53	521m	0.300	ug/l	
13) Acetone	2.650	43	2761	0.877	ug/l	90
15) Methylene Chloride	3.039	84	4670	0.384	ug/l	91
18) 2-Butanone	4.759	43	2864m	0.844	ug/l	
19) Cyclohexane	5.383	56	3454	0.210	ug/l	97
23) Diethyl Ether	2.374	59	1590	0.216	ug/l #	89
24) tert-Butyl Alcohol	3.261	59	987m	1.180	ug/l	
27) Chloroform	5.078	83	4369	0.200	ug/l	89
41) Tetrahydrofuran	5.084	42	694m	0.464	ug/l	
45) 4-Methyl-2-Pentanone	7.798	43	5130	0.879	ug/l	94
46) t-1,4-Dichloro-2-butene	10.836	75	505m	0.381	ug/l	
47) Methyl methacrylate	6.971	69	1416	0.293	ug/l #	89
54) 2-Hexanone	8.695	43	4372	0.814	ug/l	86
64) m/p-Xylenes	9.692	106	6454	0.322	ug/l	89
73) n-propylbenzene	10.904	120	4317	0.330	ug/l	93
89) Naphthalene	14.103	128	4254	0.220	ug/l #	80
90) 1,2,3-Trichlorobenzene	14.331	180	2137	0.205	ug/l #	87

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

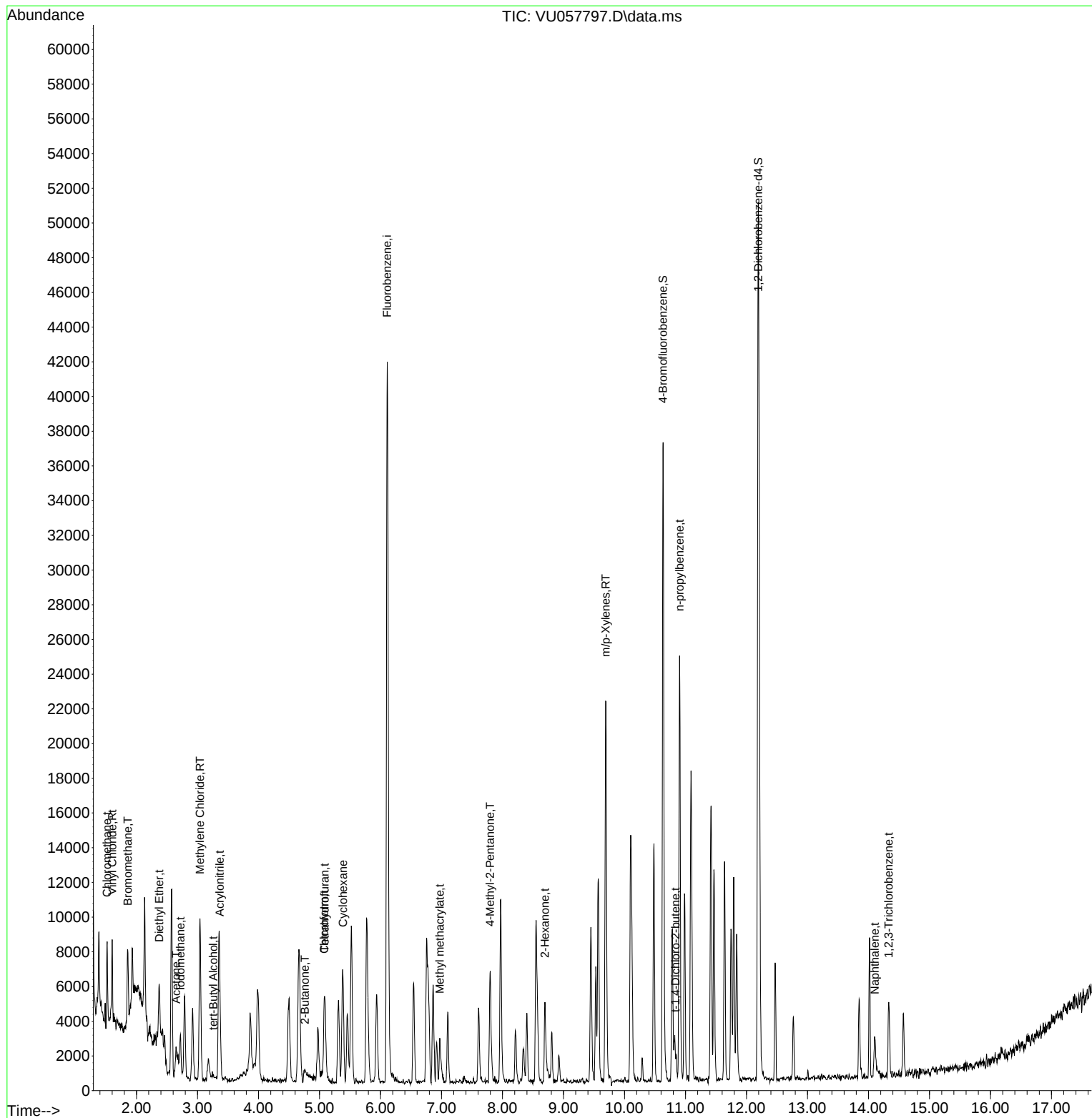
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
Data File : VU057797.D
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Operator : MD/SY
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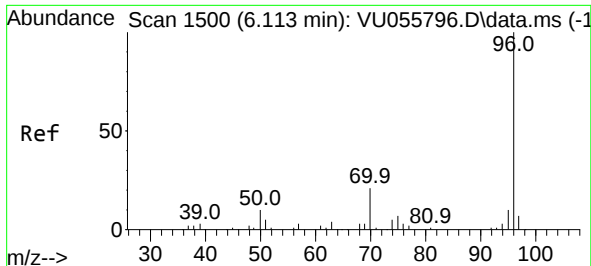
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT1-2024

Quant Time: Feb 05 02:34:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Feb 05 02:31:17 2024
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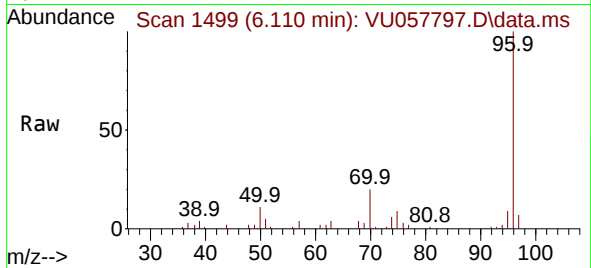
Reviewed By : John Carlone 02/14/2024
Supervised By : Mahesh Dadoda 02/14/2024





#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1499
Delta R.T. -0.003 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17

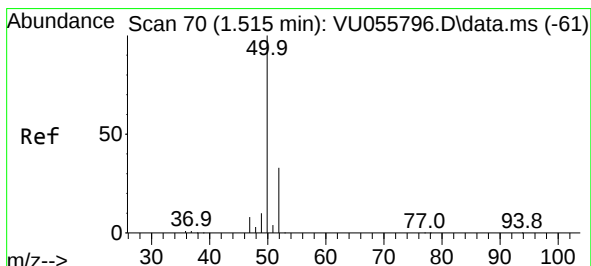
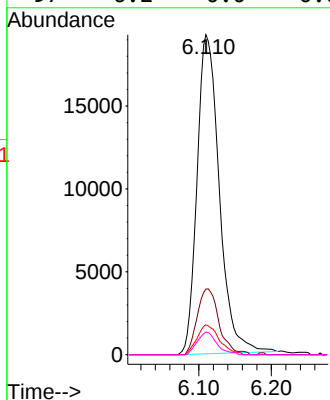
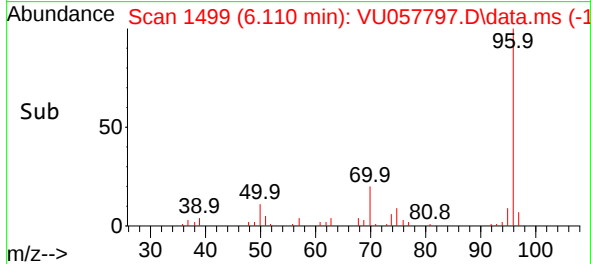
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT1-2024



Tgt Ion: 96 Resp: 41009
Ion Ratio Lower Upper
96 100
70 20.2 16.5 24.7
95 9.3 7.4 11.0
97 6.2 0.0 0.0#

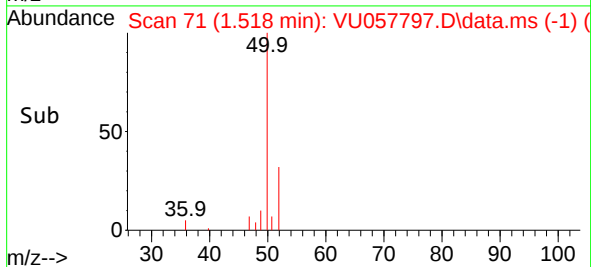
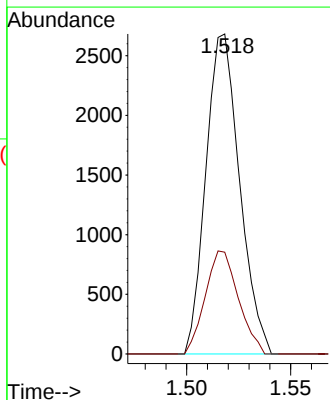
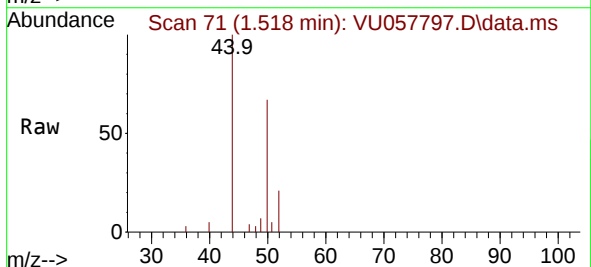
Manual Integrations
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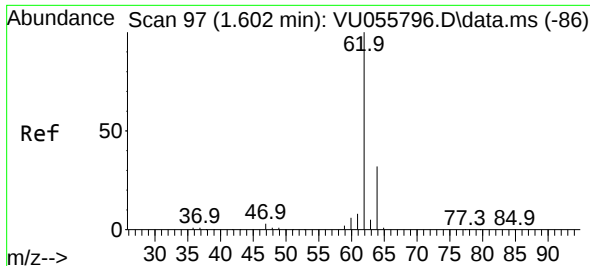
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#3
Chloromethane
Concen: 0.231 ug/l
RT: 1.518 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17

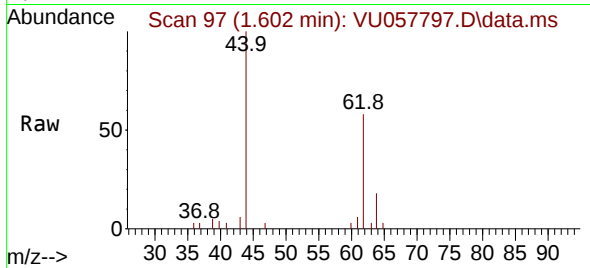
Tgt Ion: 50 Resp: 3026
Ion Ratio Lower Upper
50 100
52 29.7 26.6 40.0





#4
 Vinyl Chloride
 Concen: 0.209 ug/l
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU057797.D
 Acq: 02 Feb 2024 17:17

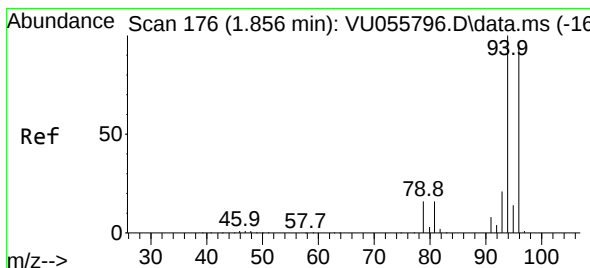
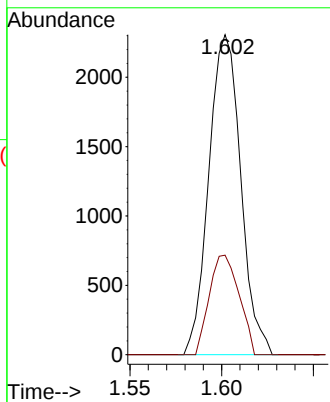
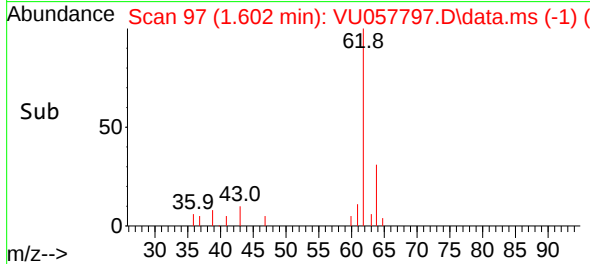
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT1-2024



Tgt Ion: 62 Resp: 279
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.4 38.2

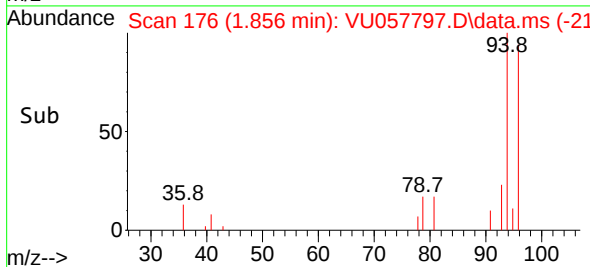
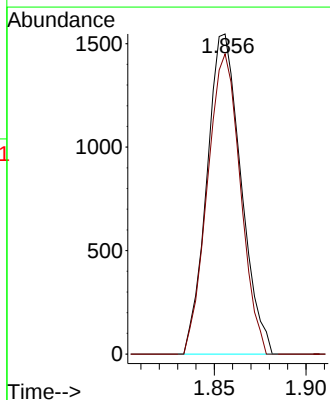
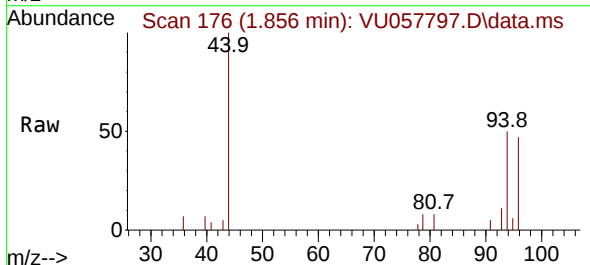
Manual Integrations
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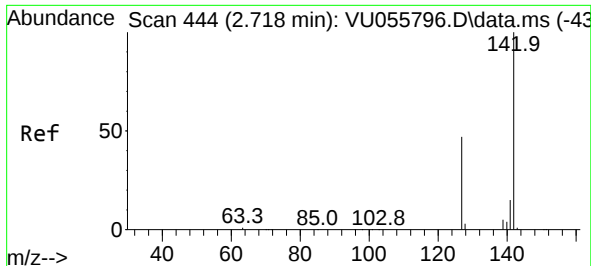
Reviewed By :John Carlone 02/14/2024
 Supervised By :Mahesh Dadoda 02/14/2024



#5
 Bromomethane
 Concen: 0.252 ug/l
 RT: 1.856 min Scan# 176
 Delta R.T. -0.000 min
 Lab File: VU057797.D
 Acq: 02 Feb 2024 17:17

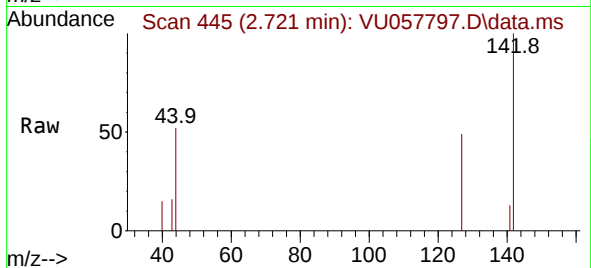
Tgt Ion: 94 Resp: 1999
 Ion Ratio Lower Upper
 94 100
 96 93.7 75.4 113.2





#10
Iodomethane
Concen: 0.202 ug/l
RT: 2.721 min Scan# 444
Delta R.T. 0.003 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17

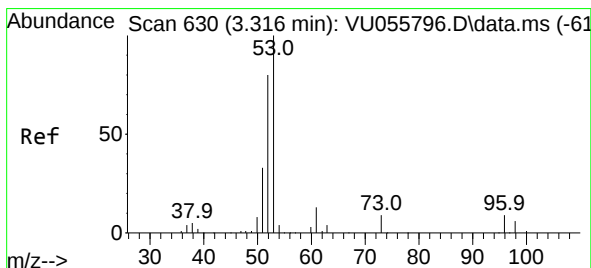
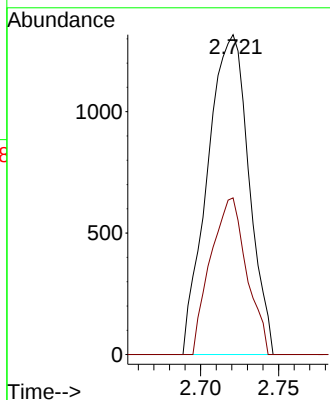
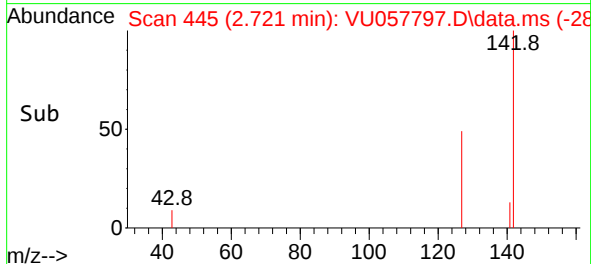
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT1-2024



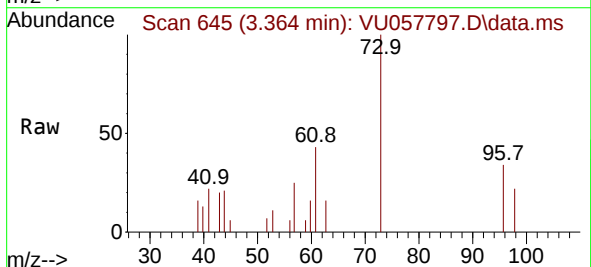
Tgt Ion:142 Resp: 243
Ion Ratio Lower Upper
142 100
127 42.6 35.9 53.9

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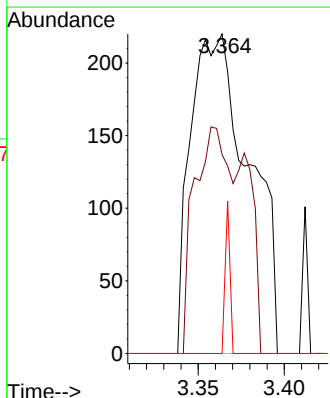
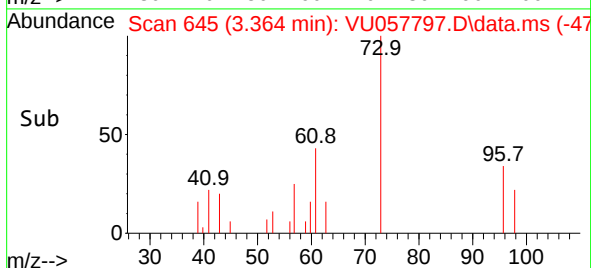
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

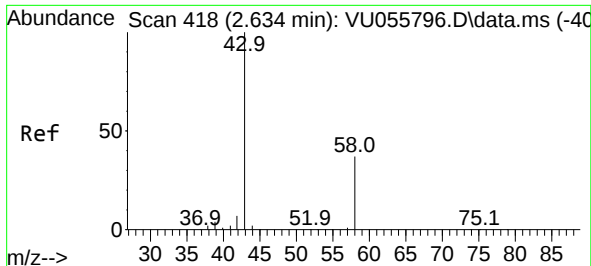


#12
Acrylonitrile
Concen: 0.300 ug/l m
RT: 3.364 min Scan# 645
Delta R.T. 0.048 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17



Tgt Ion: 53 Resp: 521
Ion Ratio Lower Upper
53 100
52 43.4 62.9 94.3#
51 0.0 27.8 41.6#





#13

Acetone

Concen: 0.877 ug/l

RT: 2.650 min Scan# 41

Delta R.T. 0.016 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Instrument :

MSVOA_U

ClientSampleId :

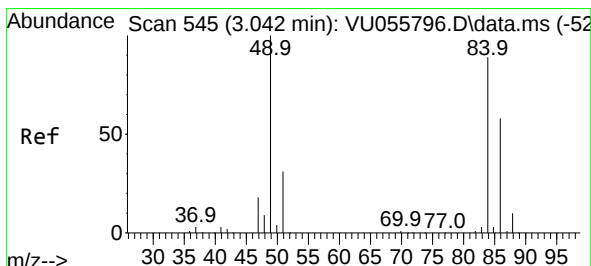
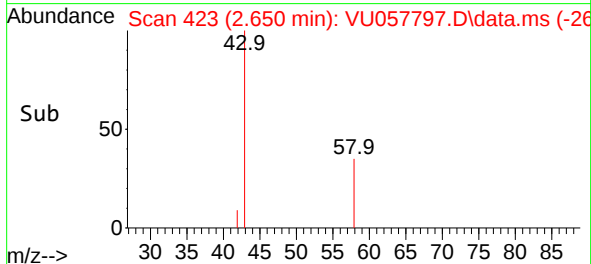
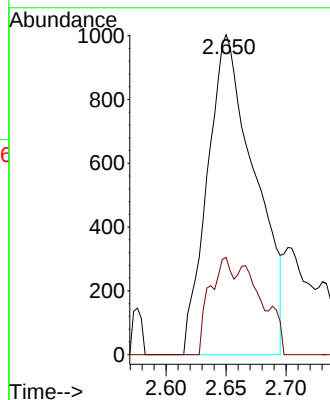
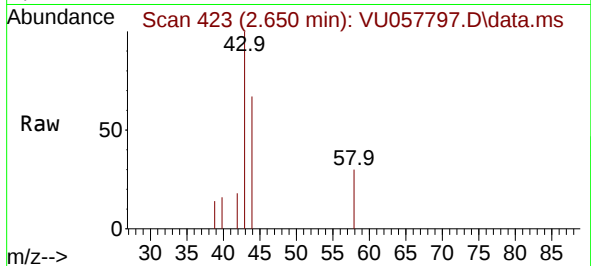
MDL-WATER-03-QT1-2024

Tgt Ion: 43 Resp: 276

Ion	Ratio	Lower	Upper
43	100		
58	30.4	29.0	43.4

Manual Integrations
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Supervised By :Mahesh Dadoda 02/14/2024



#15

Methylene Chloride

Concen: 0.384 ug/l

RT: 3.039 min Scan# 544

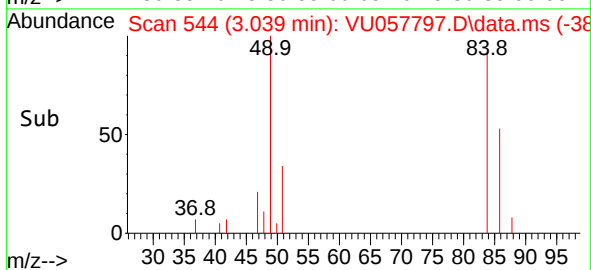
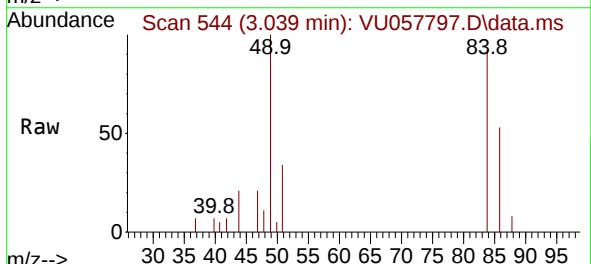
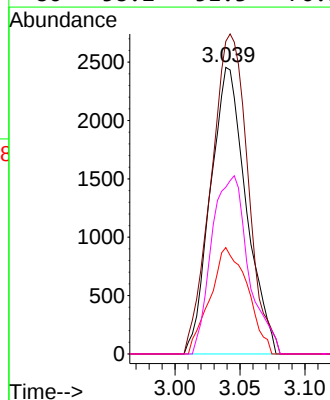
Delta R.T. -0.003 min

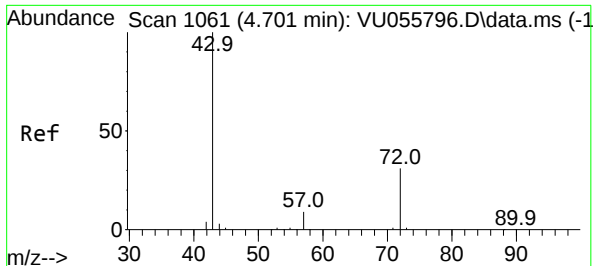
Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Tgt Ion: 84 Resp: 4670

Ion	Ratio	Lower	Upper
84	100		
49	109.1	98.9	148.3
51	37.1	0.0	75.4
86	58.2	51.3	76.9





#18

2-Butanone

Concen: 0.844 ug/l m

RT: 4.759 min Scan# 1061

Delta R.T. 0.058 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Instrument :

MSVOA_U

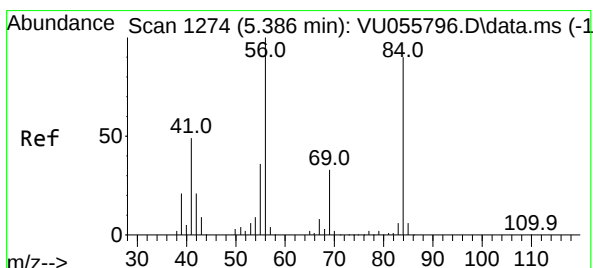
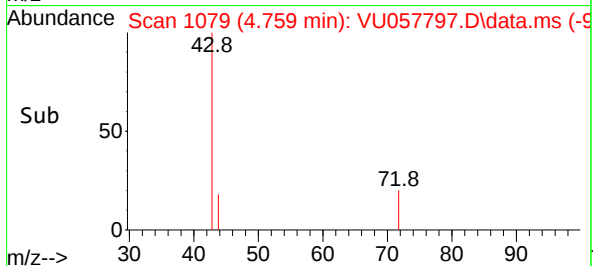
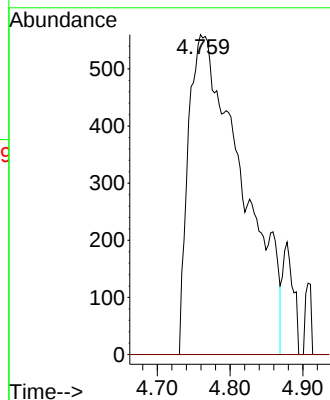
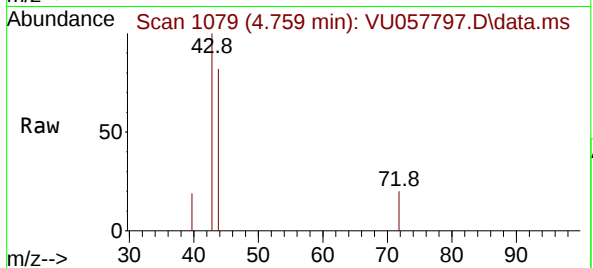
ClientSampleId :

MDL-WATER-03-QT1-2024

Tgt Ion: 43 Resp: 2864
 Ion Ratio Lower Upper
 43 100
 57 0.0 0.0 19.6

Manual Integrations
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 Supervised By :Mahesh Dadoda 02/14/2024



#19

Cyclohexane

Concen: 0.210 ug/l

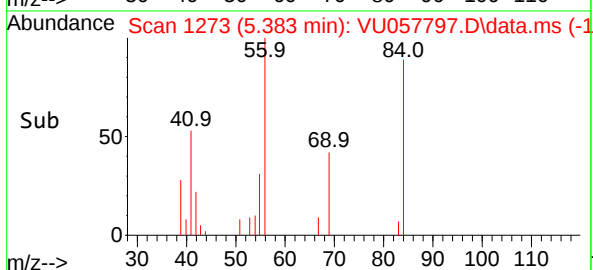
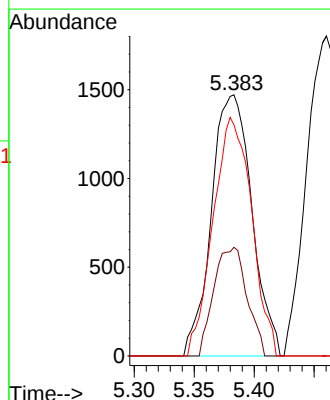
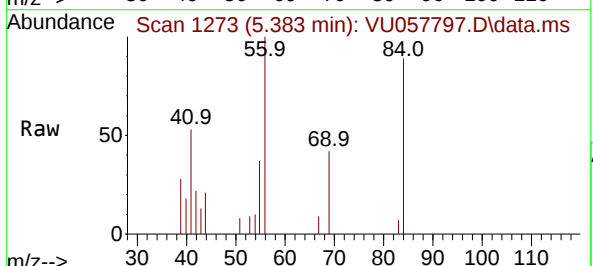
RT: 5.383 min Scan# 1273

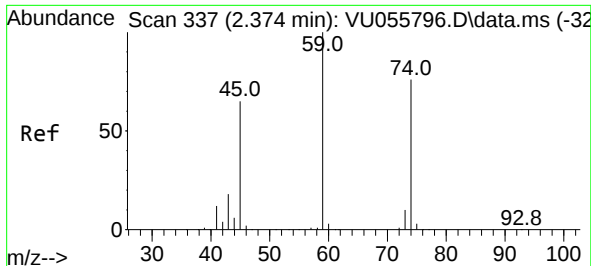
Delta R.T. -0.003 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

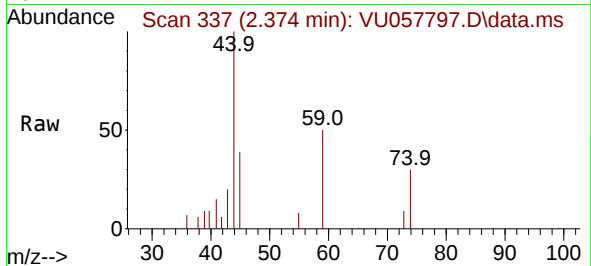
Tgt Ion: 56 Resp: 3454
 Ion Ratio Lower Upper
 56 100
 69 34.0 24.6 37.0
 84 86.9 68.4 102.6





#23
Diethyl Ether
Concen: 0.216 ug/l
RT: 2.374 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17

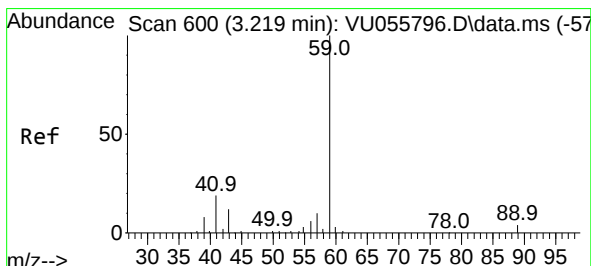
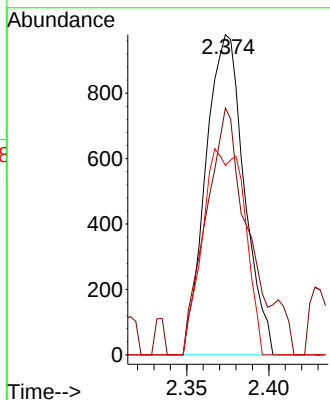
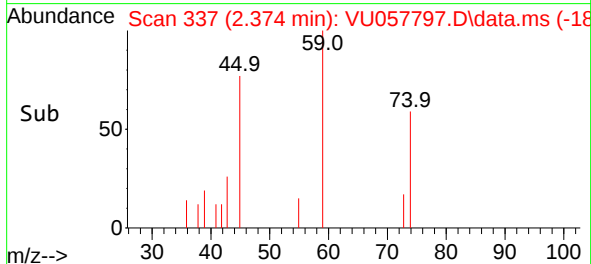
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT1-2024



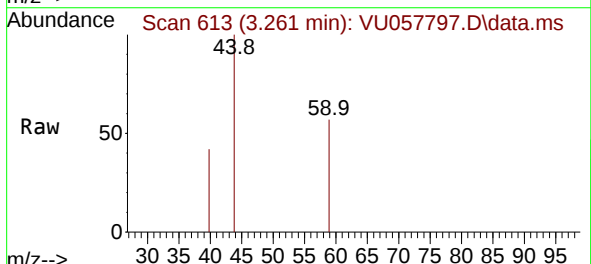
Tgt Ion: 59 Resp: 1590
Ion Ratio Lower Upper
59 100
45 86.9 56.1 84.1
74 70.9 57.4 86.2

Manual Integrations
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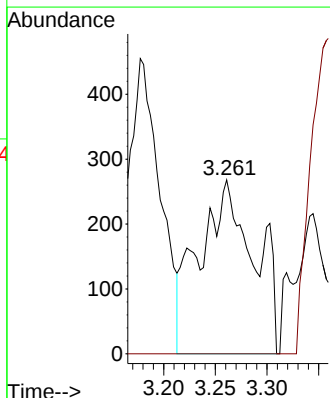
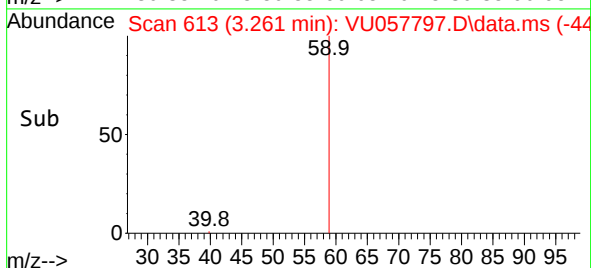
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

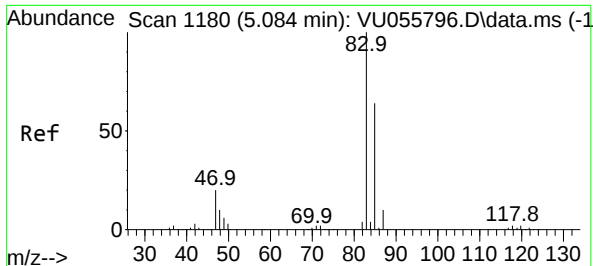


#24
tert-Butyl Alcohol
Concen: 1.180 ug/l m
RT: 3.261 min Scan# 613
Delta R.T. 0.042 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17



Tgt Ion: 59 Resp: 987
Ion Ratio Lower Upper
59 100
57 0.0 105.6 158.4#





#27

Chloroform

Concen: 0.200 ug/l

RT: 5.078 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT1-2024

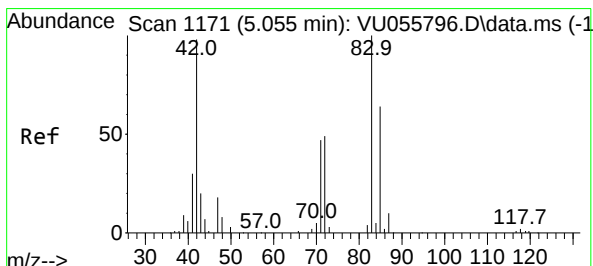
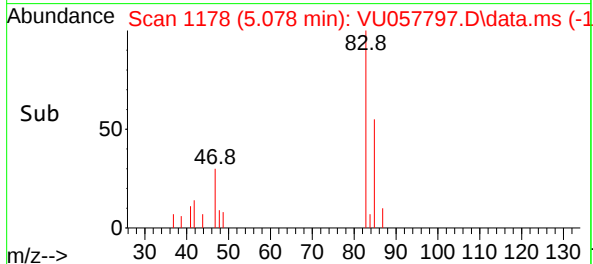
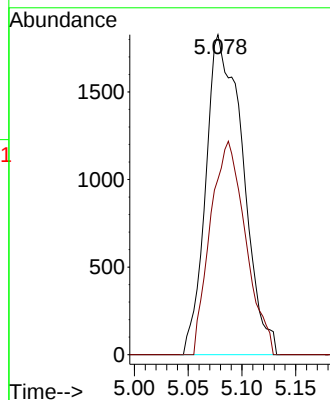
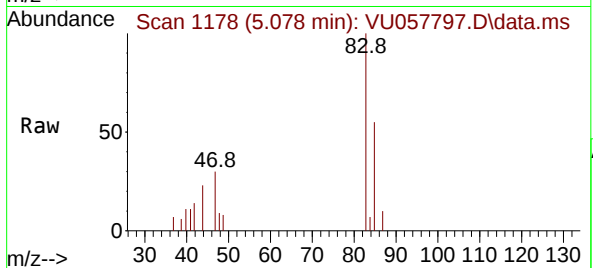
Tgt Ion: 83 Resp: 4369
 Ion Ratio Lower Upper
 83 100
 85 54.8 0.0 126.4

Manual Integrations

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Reviewed By :John Carlone 02/14/2024

Supervised By :Mahesh Dadoda 02/14/2024



#41

Tetrahydrofuran

Concen: 0.464 ug/l m

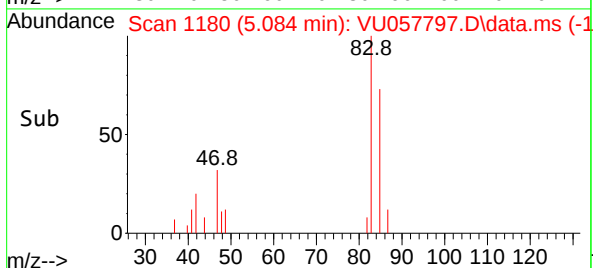
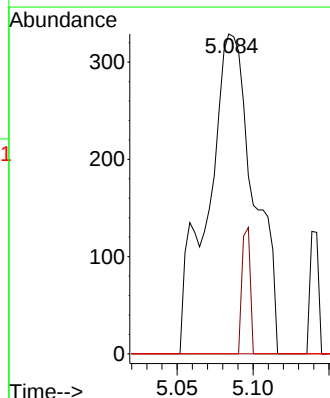
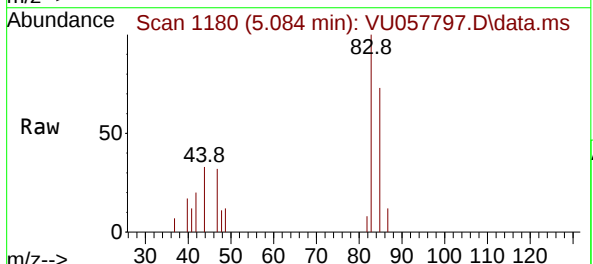
RT: 5.084 min Scan# 1180

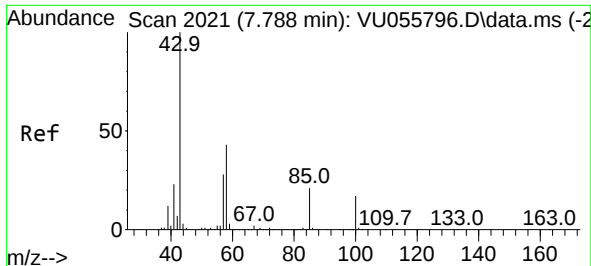
Delta R.T. 0.029 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Tgt Ion: 42 Resp: 694
 Ion Ratio Lower Upper
 42 100
 72 0.0 40.9 61.3#
 71 0.0 36.9 55.3#





#45

4-Methyl-2-Pentanone

Concen: 0.879 ug/l

RT: 7.798 min Scan# 2021

Delta R.T. 0.010 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT1-2024

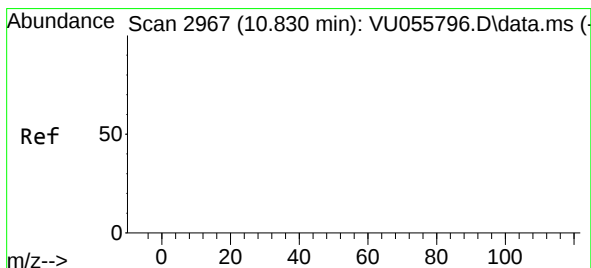
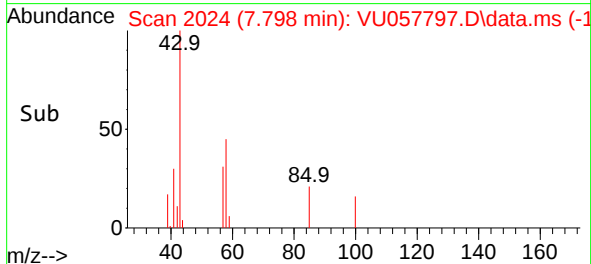
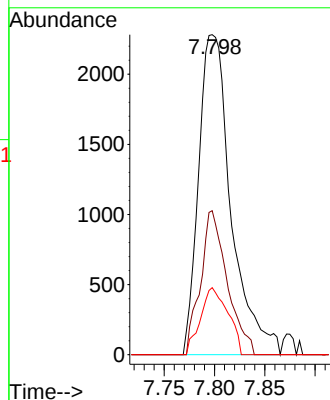
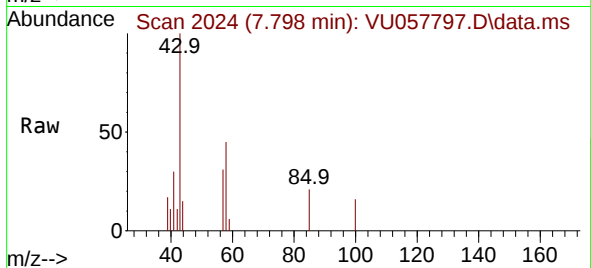
Tgt Ion:	43	Resp:	5130
Ion	Ratio	Lower	Upper
43	100		
58	36.9	20.9	62.8
85	17.7	14.6	21.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/14/2024

Supervised By :Mahesh Dadoda 02/14/2024



#46

t-1,4-Dichloro-2-butene

Concen: 0.381 ug/l m

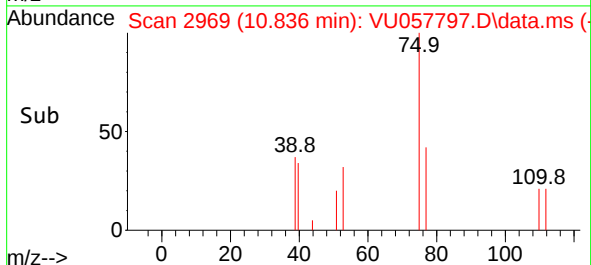
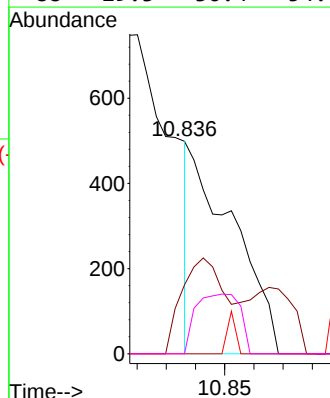
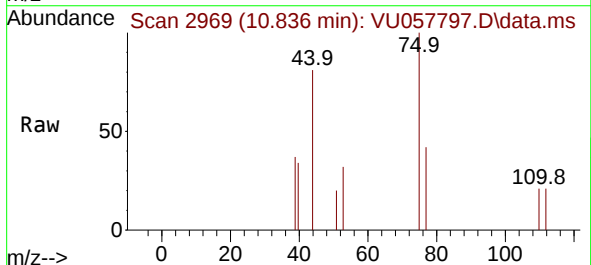
RT: 10.836 min Scan# 2969

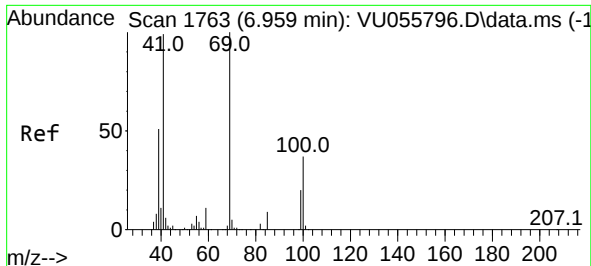
Delta R.T. 0.006 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

Tgt Ion:	75	Resp:	505
Ion	Ratio	Lower	Upper
75	100		
53	49.1	73.3	109.9#
89	0.0	48.2	72.4#
88	29.3	36.4	54.6#





#47

Methyl methacrylate

Concen: 0.293 ug/l

RT: 6.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: VU057797.D

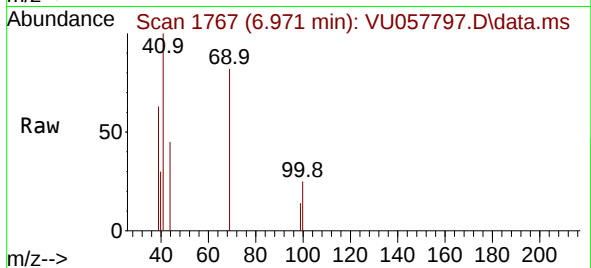
Acq: 02 Feb 2024 17:17

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT1-2024



Tgt Ion: 69 Resp: 1410

Ion Ratio Lower Upper

69 100

41 113.0 0.0 209.2

39 56.7 46.7 70.1

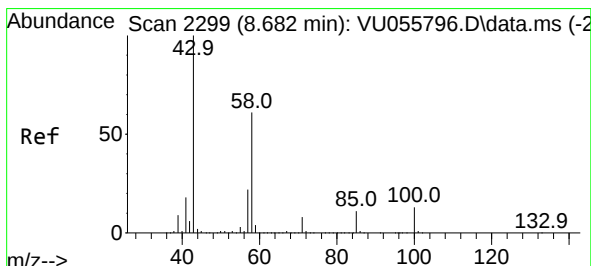
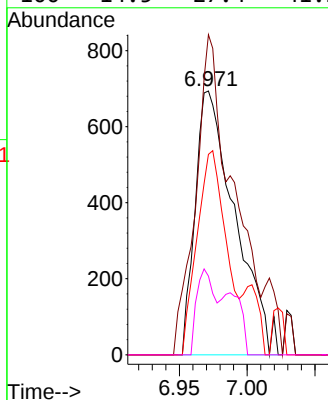
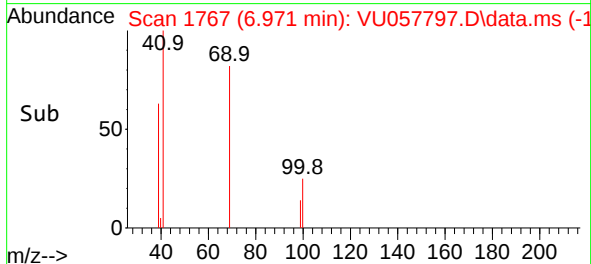
100 14.5 27.4 41.2#

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/14/2024

Supervised By :Mahesh Dadoda 02/14/2024



#54

2-Hexanone

Concen: 0.814 ug/l

RT: 8.695 min Scan# 2303

Delta R.T. 0.013 min

Lab File: VU057797.D

Acq: 02 Feb 2024 17:17

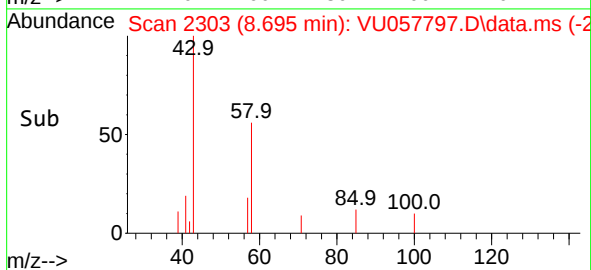
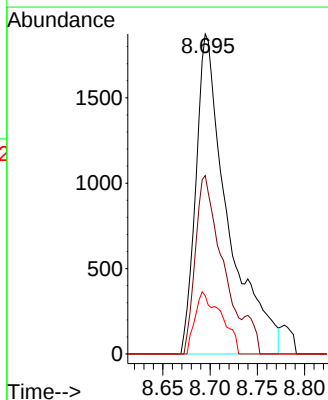
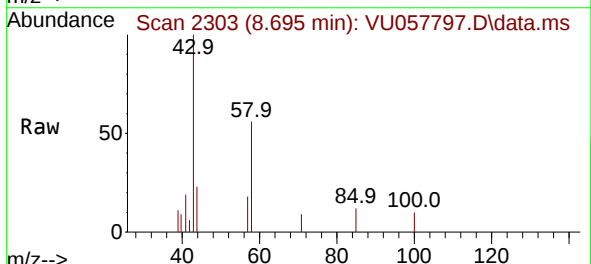
Tgt Ion: 43 Resp: 4372

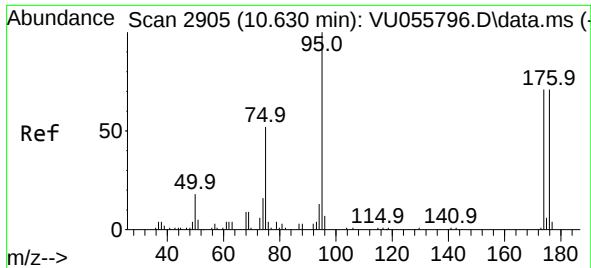
Ion Ratio Lower Upper

43 100

58 46.2 38.2 78.2

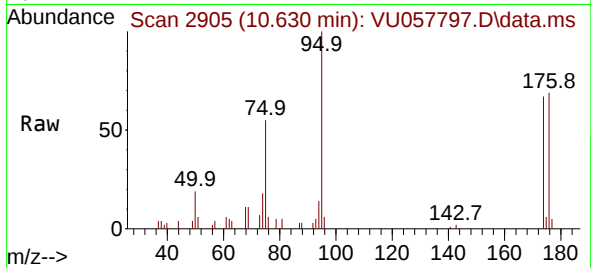
57 16.1 0.0 39.1





#57
4-Bromofluorobenzene
Concen: 0.875 ug/l
RT: 10.630 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17

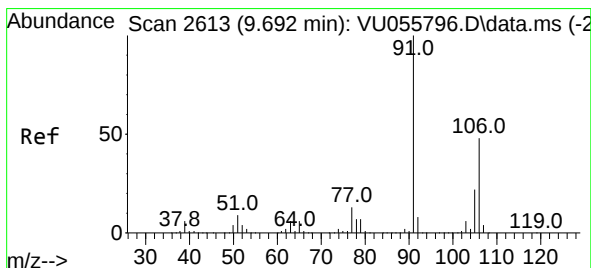
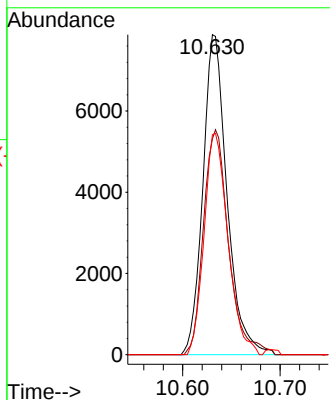
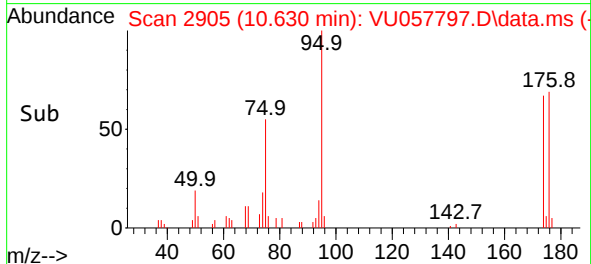
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT1-2024



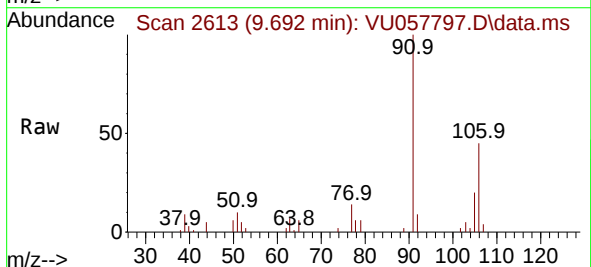
Tgt Ion: 95 Resp: 13584
Ion Ratio Lower Upper
95 100
174 73.1 63.3 94.9
176 68.6 59.3 88.9

Manual Integrations
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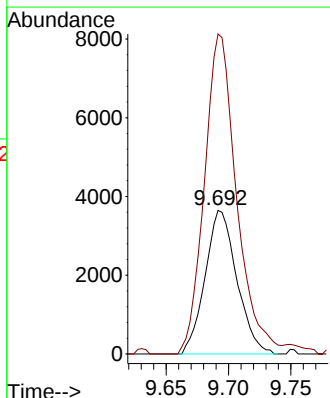
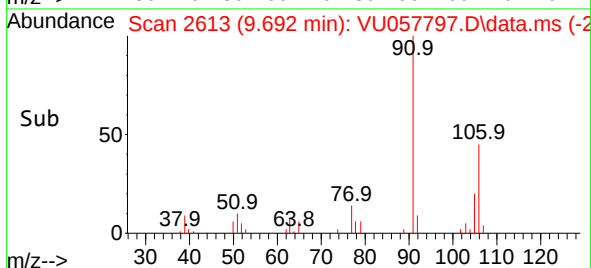
Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024

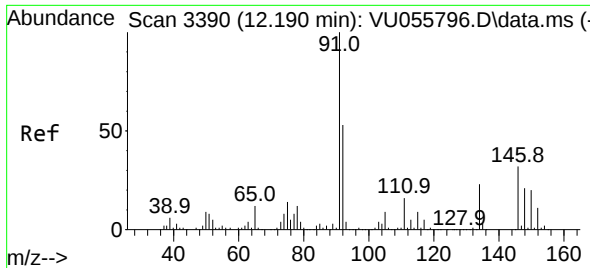


#64
m/p-Xylenes
Concen: 0.322 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17



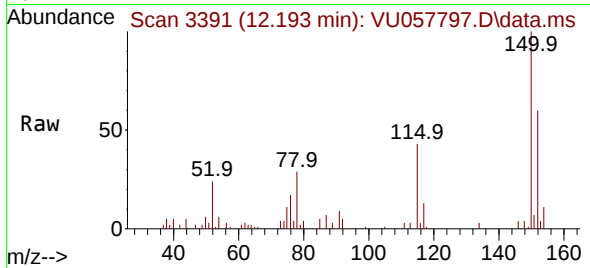
Tgt Ion:106 Resp: 6454
Ion Ratio Lower Upper
106 100
91 226.1 167.3 250.9





#68
 1,2-Dichlorobenzene-d4
 Concen: 0.889 ug/l
 RT: 12.193 min Scan# 3390
 Delta R.T. 0.003 min
 Lab File: VU057797.D
 Acq: 02 Feb 2024 17:17

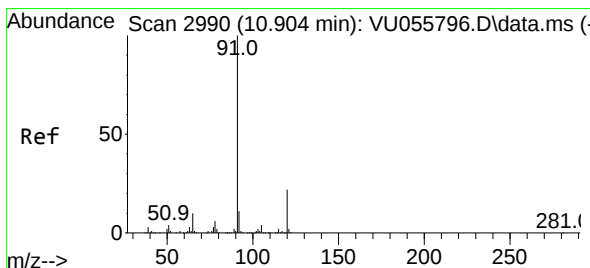
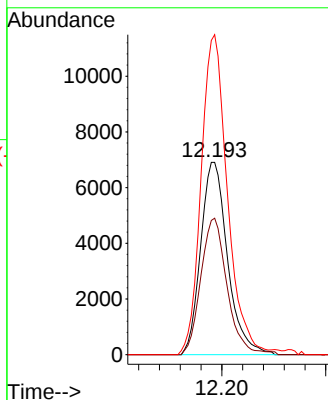
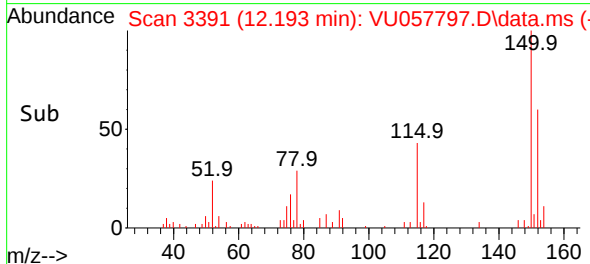
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT1-2024



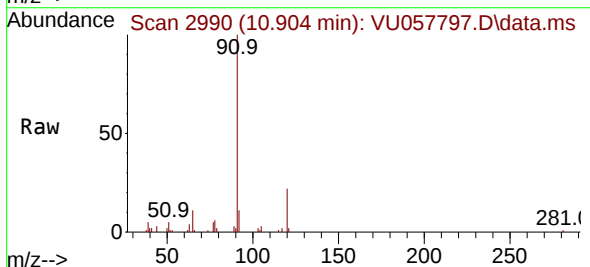
Tgt Ion:152 Resp: 12420
 Ion Ratio Lower Upper
 152 100
 115 69.2 0.0 308.8
 150 163.2 0.0 635.0

Manual Integrations
 APPROVED

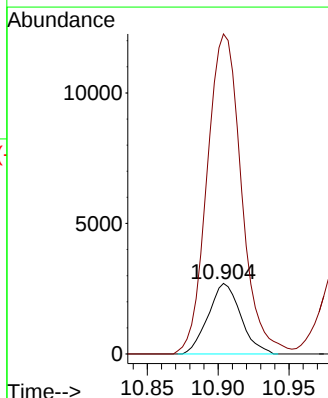
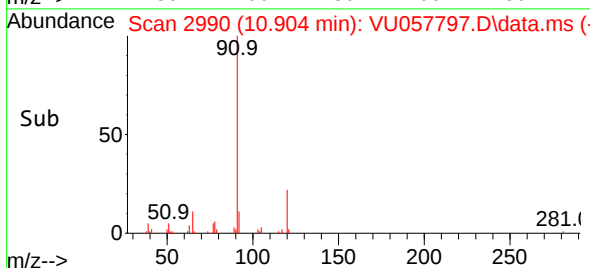
Reviewed By :John Carlone 02/14/2024
 Supervised By :Mahesh Dadoda 02/14/2024

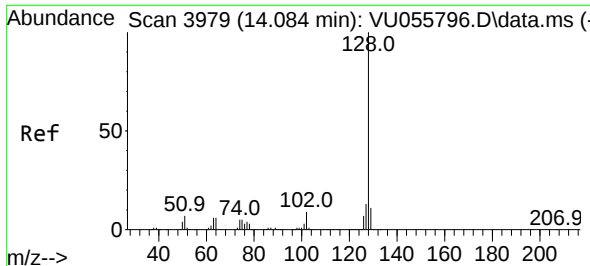


#73
 n-propylbenzene
 Concen: 0.330 ug/l
 RT: 10.904 min Scan# 2990
 Delta R.T. -0.000 min
 Lab File: VU057797.D
 Acq: 02 Feb 2024 17:17



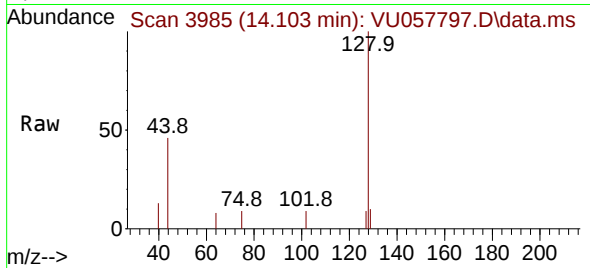
Tgt Ion:120 Resp: 4317
 Ion Ratio Lower Upper
 120 100
 91 480.0 369.8 554.6





#89
Naphthalene
Concen: 0.220 ug/l
RT: 14.103 min Scan# 3979
Delta R.T. 0.019 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17

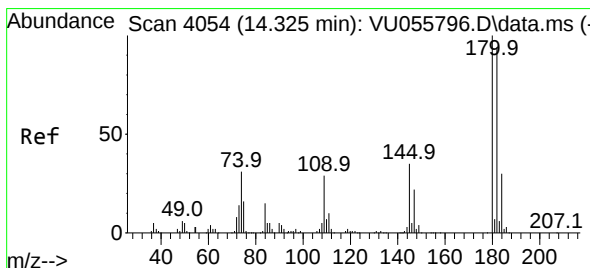
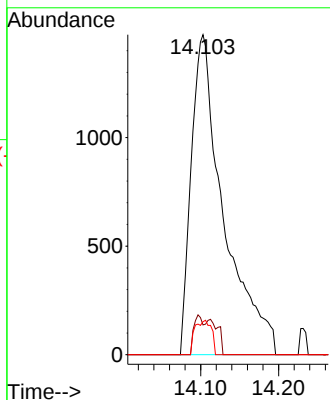
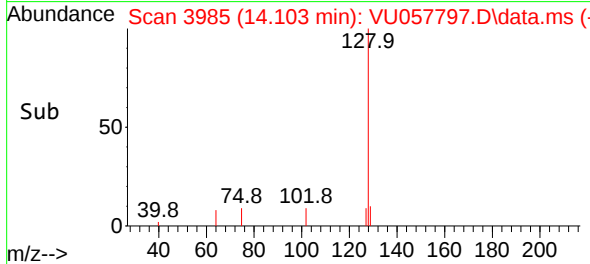
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT1-2024



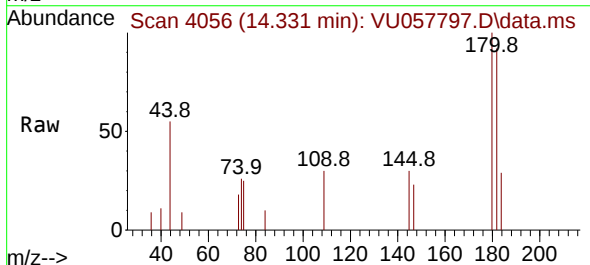
Tgt Ion:128 Resp: 4254
Ion Ratio Lower Upper
128 100
127 3.5 10.9 16.3
129 5.5 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2024
Supervised By :Mahesh Dadoda 02/14/2024



#90
1,2,3-Trichlorobenzene
Concen: 0.205 ug/l
RT: 14.331 min Scan# 4056
Delta R.T. 0.006 min
Lab File: VU057797.D
Acq: 02 Feb 2024 17:17



Tgt Ion:180 Resp: 2137
Ion Ratio Lower Upper
180 100
182 82.1 75.7 113.5
145 24.1 26.1 39.1

