

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072723\
 Data File : VU054900.D
 Acq On : 27 Jul 2023 17:42
 Operator : MD/SY
 Sample : 03572-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2023

Quant Time: Jul 28 06:46:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 28 06:40:03 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/28/2023
 Supervised By : Mahesh Dadoda 07/31/2023

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

Internal Standards						
1) Fluorobenzene	6.113	96	24982	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	7698	1.016	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.000%	
68) 1,2-Dichlorobenzene-d4	12.196	152	8618	1.007	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	1075	0.226	ug/l	79
3) Chloromethane	1.522	50	1560	0.292	ug/l	# 82
4) Vinyl Chloride	1.599	62	1615	0.226	ug/l	100
5) Bromomethane	1.853	94	1692	0.299	ug/l	83
8) 1,1,2-Trichloro-1,2,2-...	2.573	101	1160	0.213	ug/l	# 76
9) 1,1-Dichloroethene	2.576	96	863m	0.200	ug/l	
11) Allyl Chloride	2.923	41	1219	0.236	ug/l	94
13) Acetone	2.653	43	1477m	1.306	ug/l	
15) Methylene Chloride	3.046	84	3091	0.514	ug/l	95
18) 2-Butanone	4.750	43	1579m	1.106	ug/l	
19) Cyclohexane	5.390	56	1764	0.299	ug/l	# 79
22) cis-1,2-Dichloroethene	4.685	96	1394m	0.223	ug/l	
23) Diethyl Ether	2.370	59	1501	0.236	ug/l	# 69
24) tert-Butyl Alcohol	3.242	59	562m	0.949	ug/l	
25) Methyl tert-Butyl Ether	3.367	73	3153	0.236	ug/l	93
27) Chloroform	5.090	83	3068	0.272	ug/l	92
31) Isopropyl Ether	3.997	45	3396	0.219	ug/l	71
32) Ethyl-t-butyl ether	4.502	59	3824m	0.240	ug/l	
33) Tert-Amyl methyl ether	5.939	73	3372	0.223	ug/l	92
35) Benzene	5.775	78	4662	0.207	ug/l	91
36) 1,2-Dichloroethane	5.791	62	1559	0.244	ug/l	# 73
37) Trichloroethene	6.553	130	1237m	0.204	ug/l	
38) 1,2-Dichloropropane	6.795	63	1430	0.225	ug/l	# 70
41) Tetrahydrofuran	5.065	42	369m	0.409	ug/l	
43) Dibromomethane	6.923	93	685	0.229	ug/l	# 66
44) Bromodichloromethane	7.103	83	1790	0.215	ug/l	# 90
45) 4-Methyl-2-Pentanone	7.791	43	4217	1.210	ug/l	93
46) t-1,4-Dichloro-2-butene	10.830	75	583m	0.416	ug/l	
47) Methyl methacrylate	6.981	69	1060	0.388	ug/l	62
48) Ethyl methacrylate	8.335	69	1311	0.237	ug/l	93
49) Toluene	7.971	92	3341	0.233	ug/l	90
52) 1,1,2-Trichloroethane	8.396	97	1021	0.216	ug/l	# 82
53) 1,3-Dichloropropane	8.579	76	1758	0.229	ug/l	# 84
54) 2-Hexanone	8.698	43	2158	0.871	ug/l	93
55) Dibromochloromethane	8.807	129	1237	0.228	ug/l	# 39
56) 1,2-Dibromoethane	8.923	107	1015	0.253	ug/l	76
58) Tetrachloroethene	8.557	164	1407	0.266	ug/l	# 79
59) Chlorobenzene	9.450	112	3767	0.217	ug/l	98
63) Ethyl Benzene	9.569	91	6430	0.220	ug/l	96
64) m/p-Xylenes	9.695	106	4481	0.410	ug/l	91
65) o-Xylene	10.103	106	2622	0.234	ug/l	89
66) Styrene	10.113	104	3825	0.213	ug/l	95
69) Isopropylbenzene	10.486	105	6524	0.217	ug/l	100

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 ALS Vial : 13 Sample Multiplier: 1

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 MDL-WATER-03-QT3-2023

Manual Integrations
 APPROVED

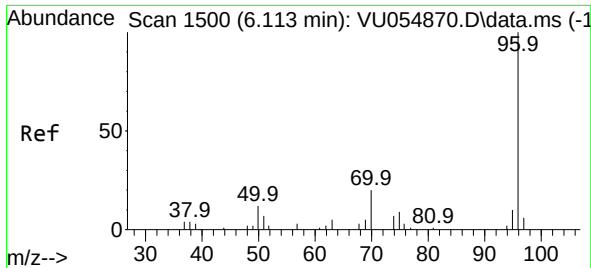
Reviewed By : John Carlone 07/28/2023
 Supervised By : Mahesh Dadoda 07/31/2023

Quant Time: Jul 28 06:46:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

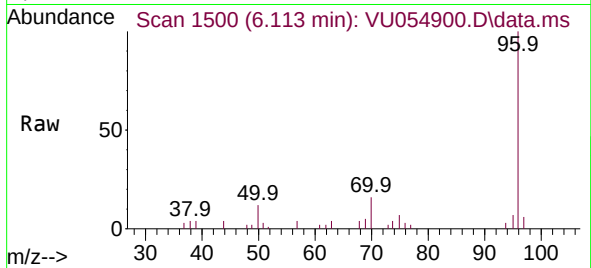
71) 1,2,3-Trichloropropane	10.827	75	1154m	0.276	ug/l	
72) Bromobenzene	10.788	156	1478	0.220	ug/l	79
73) n-propylbenzene	10.907	120	1631	0.202	ug/l	88
74) 2-Chlorotoluene	10.991	126	1598	0.229	ug/l	94
75) 1,3,5-Trimethylbenzene	11.087	105	5179	0.212	ug/l	97
76) 4-Chlorotoluene	11.100	126	1749	0.241	ug/l	93
77) tert-Butylbenzene	11.418	119	5275	0.208	ug/l	97
79) sec-Butylbenzene	11.643	105	6618	0.201	ug/l	99
80) Nitrobenzene	13.235	77	104	0.675	ug/l #	39
82) 1,3-Dichlorobenzene	11.746	146	3307	0.232	ug/l	95
83) 1,4-Dichlorobenzene	11.839	146	3572	0.251	ug/l	99
84) n-Butylbenzene	12.209	91	5548	0.237	ug/l	90
85) 1,2-Dichlorobenzene	12.216	146	3345	0.244	ug/l	95
87) 1,2,4-Trichlorobenzene	13.843	180	2410	0.276	ug/l	91
88) Hexachlorobutadiene	14.023	225	1222	0.263	ug/l #	77
89) Naphthalene	14.097	128	4388	0.325	ug/l #	94
90) 1,2,3-Trichlorobenzene	14.335	180	2725	0.352	ug/l #	88

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



#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VU054900.D
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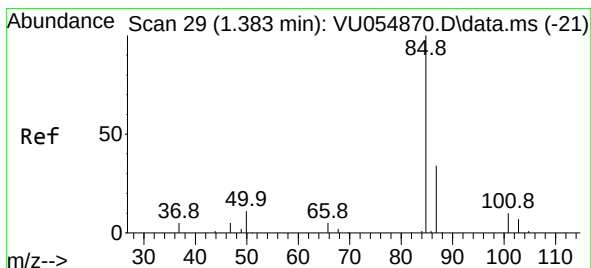
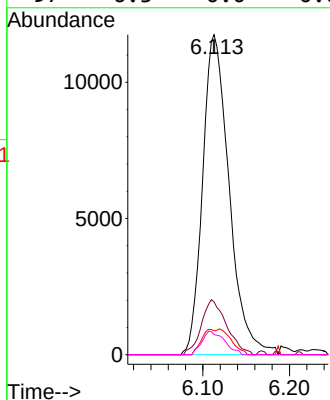
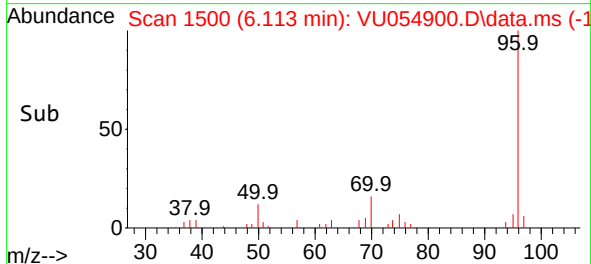
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion: 96 Resp: 2498
Ion Ratio Lower Upper
96 100
70 16.4 14.0 21.0
95 4.0 8.7 13.1
97 6.3 0.0 0.0#

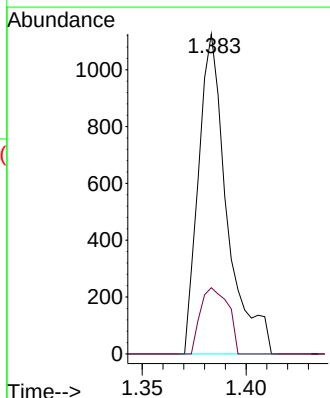
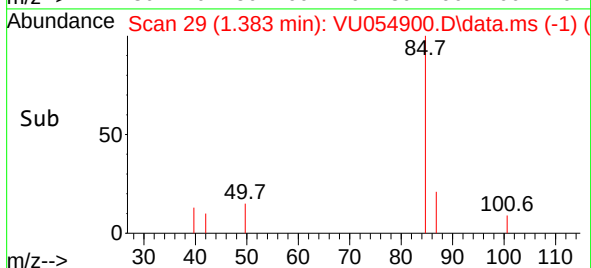
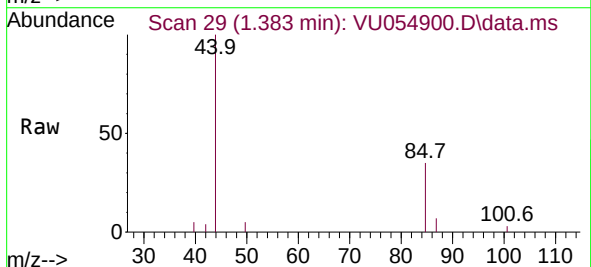
Manual Integrations
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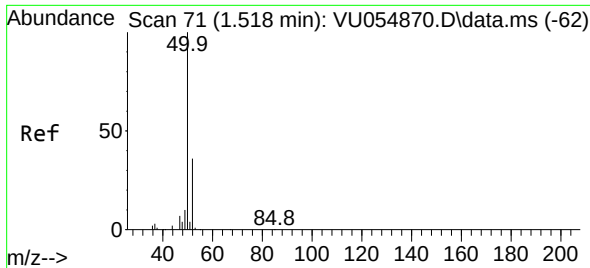
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#2
Dichlorodifluoromethane
Concen: 0.226 ug/l
RT: 1.383 min Scan# 29
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

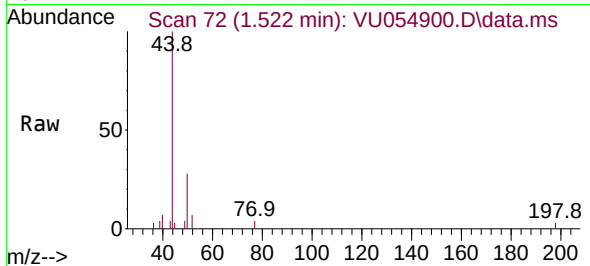
Tgt Ion: 85 Resp: 1075
Ion Ratio Lower Upper
85 100
87 20.7 16.2 48.6





#3
Chloromethane
Concen: 0.292 ug/l
RT: 1.522 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

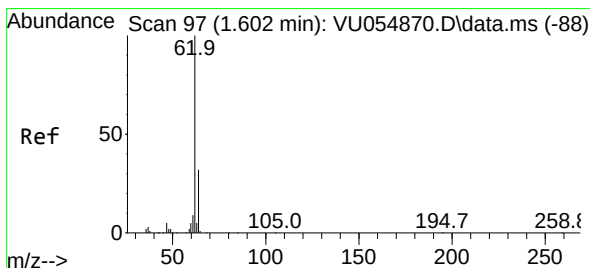
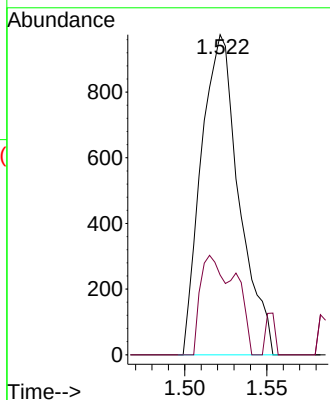
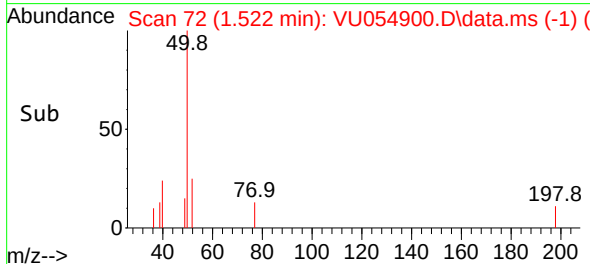
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion: 50 Resp: 1560
Ion Ratio Lower Upper
50 100
52 24.9 28.2 42.2

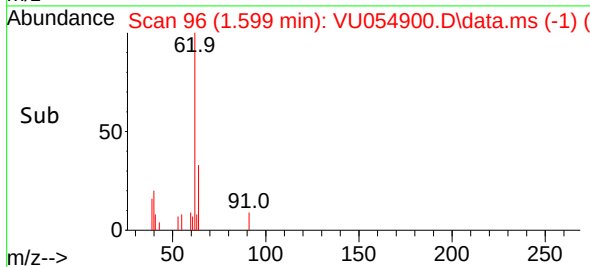
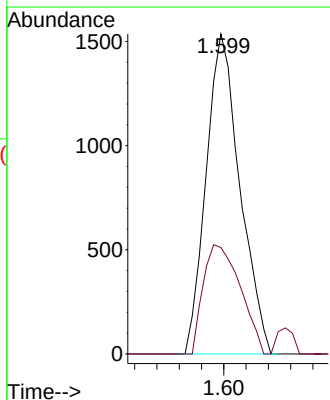
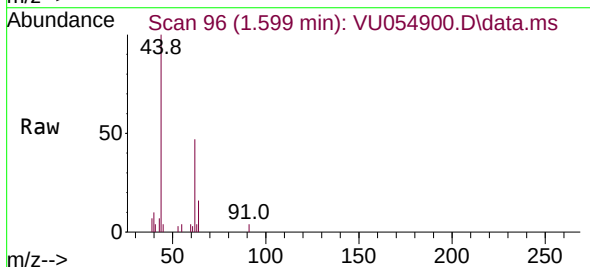
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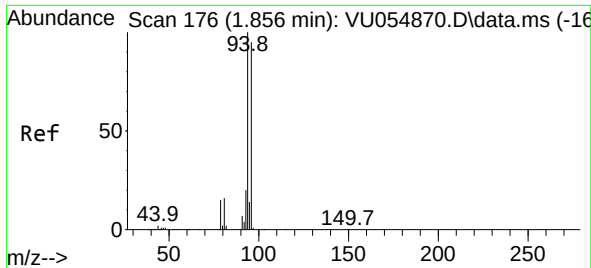
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#4
Vinyl Chloride
Concen: 0.226 ug/l
RT: 1.599 min Scan# 96
Delta R.T. -0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

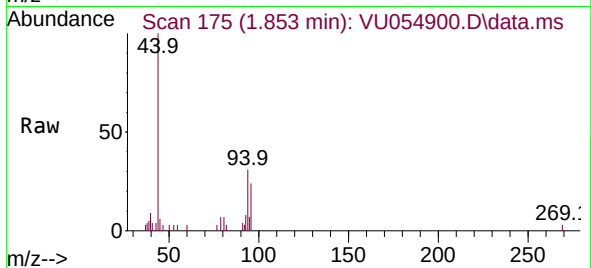
Tgt Ion: 62 Resp: 1615
Ion Ratio Lower Upper
62 100
64 33.3 26.4 39.6





#5
Bromomethane
Concen: 0.299 ug/l
RT: 1.853 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

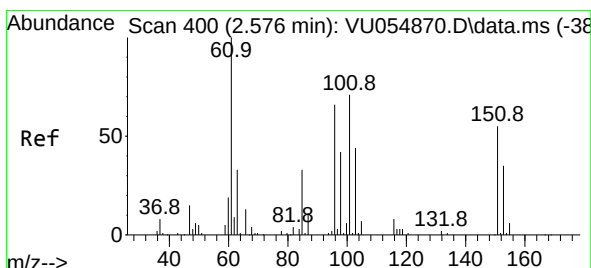
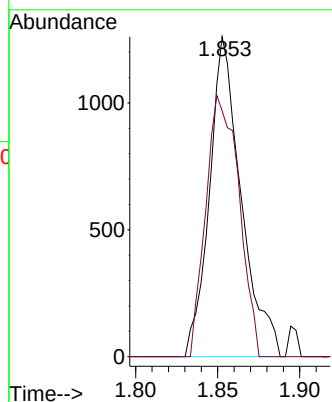
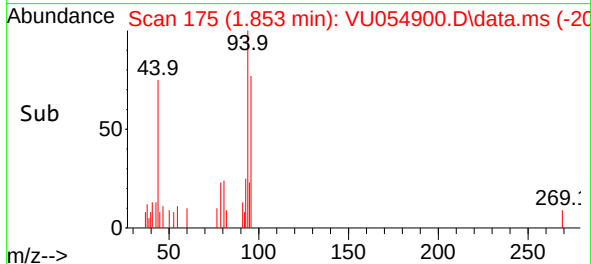
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



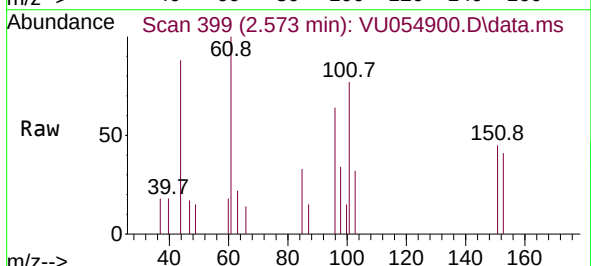
Tgt Ion: 94 Resp: 1692
Ion Ratio Lower Upper
94 100
96 76.8 74.6 111.8

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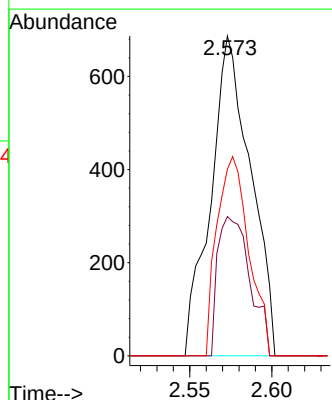
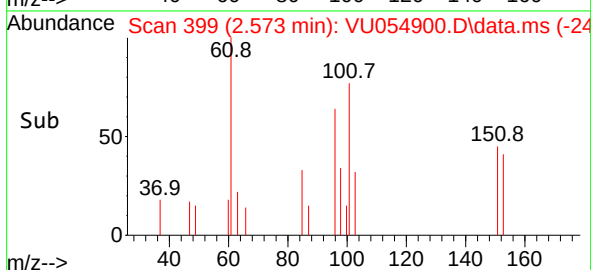
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

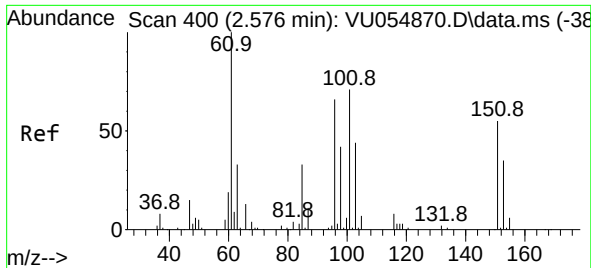


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.213 ug/l
RT: 2.573 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



Tgt Ion:101 Resp: 1160
Ion Ratio Lower Upper
101 100
85 35.2 34.8 52.2
151 49.8 60.5 90.7#





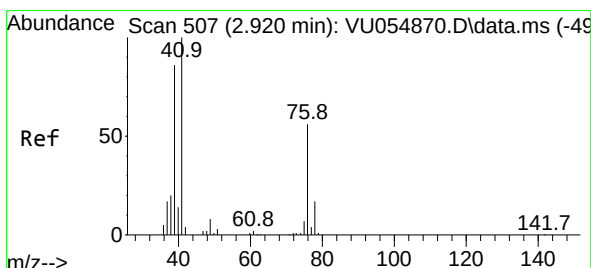
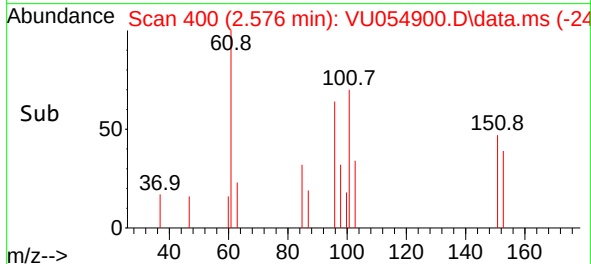
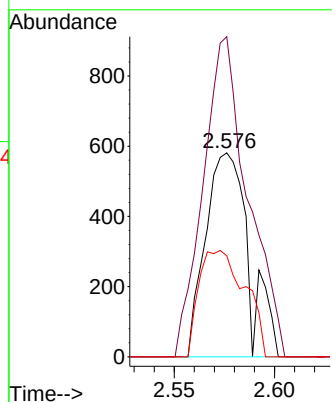
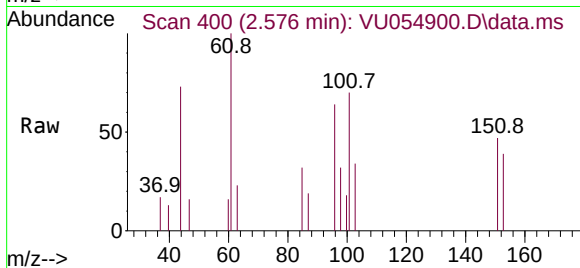
#9
1,1-Dichloroethene
Concen: 0.200 ug/l m
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion: 96 Resp: 86
Ion Ratio Lower Upper
96 100
61 157.0 0.0 440.1
98 49.6 0.0 121.8

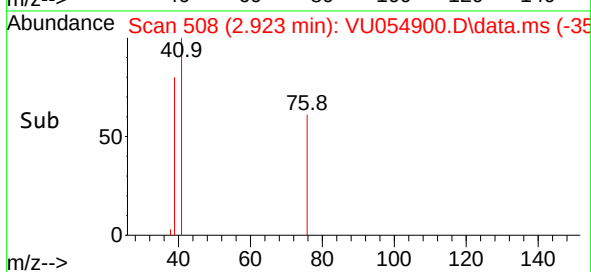
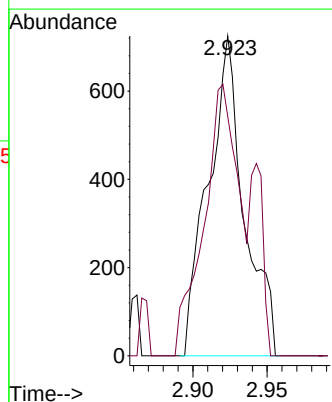
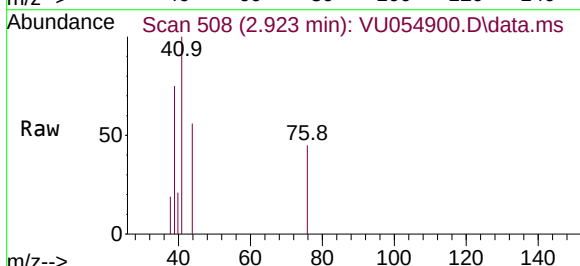
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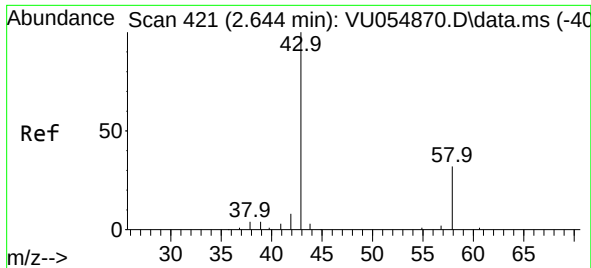
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#11
Allyl Chloride
Concen: 0.236 ug/l
RT: 2.923 min Scan# 508
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

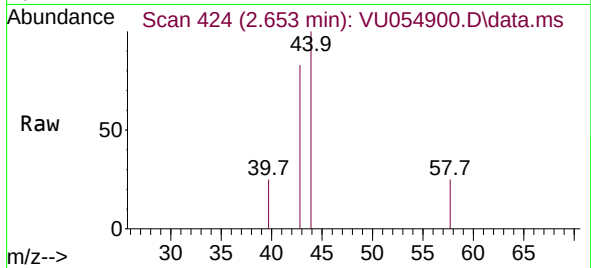
Tgt Ion: 41 Resp: 1219
Ion Ratio Lower Upper
41 100
39 81.7 70.2 105.2





#13
Acetone
Concen: 1.306 ug/l m
RT: 2.653 min Scan# 41
Delta R.T. 0.010 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

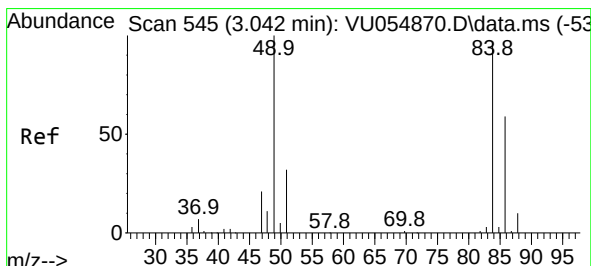
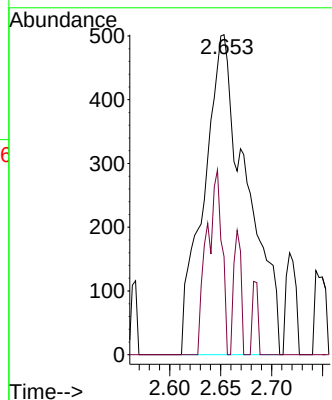
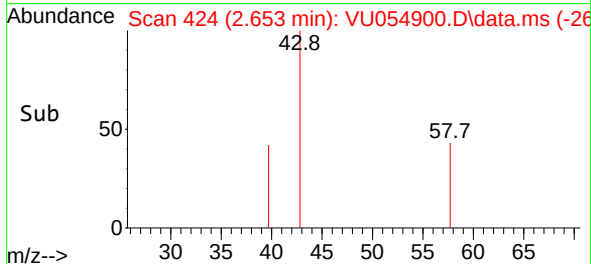
Instrument :
MSVOA_U
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MDL-WATER-03-QT3-2023



Tgt Ion: 43 Resp: 147
Ion Ratio Lower Upper
43 100
58 30.7 30.7 46.1

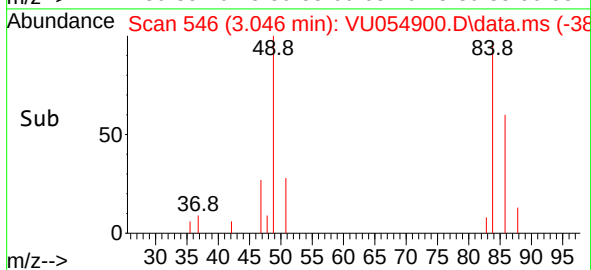
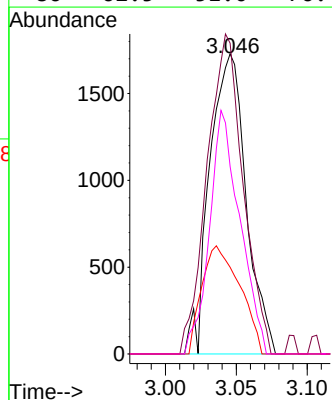
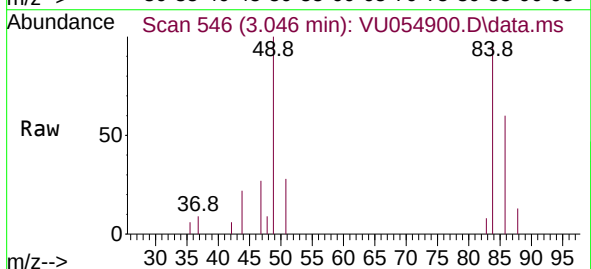
Manual Integrations
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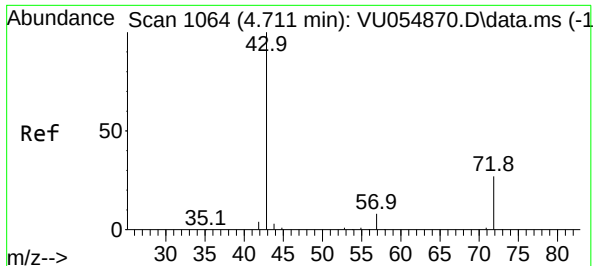
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#15
Methylene Chloride
Concen: 0.514 ug/l
RT: 3.046 min Scan# 546
Delta R.T. 0.004 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

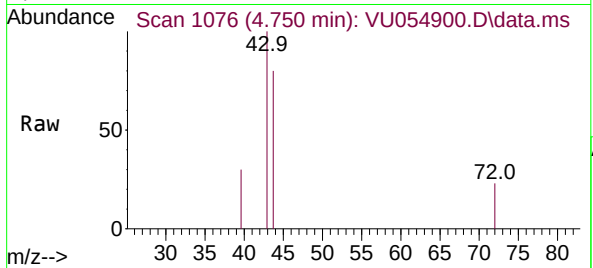
Tgt Ion: 84 Resp: 3091
Ion Ratio Lower Upper
84 100
49 103.5 87.8 131.6
51 28.9 0.0 68.2
86 62.5 51.0 76.4





#18
2-Butanone
Concen: 1.106 ug/l m
RT: 4.750 min Scan# 1064
Delta R.T. 0.039 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

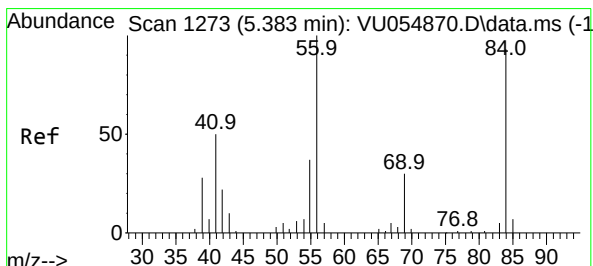
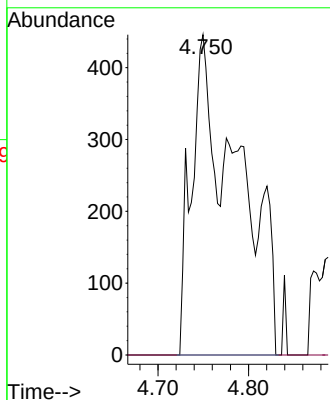
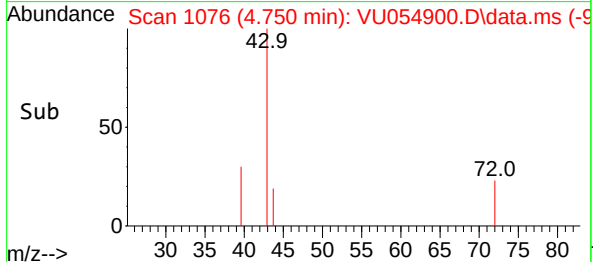
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion: 43 Resp: 1579
Ion Ratio Lower Upper
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57 0.0 0.0 20.8

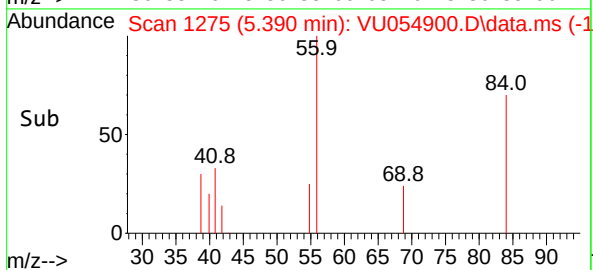
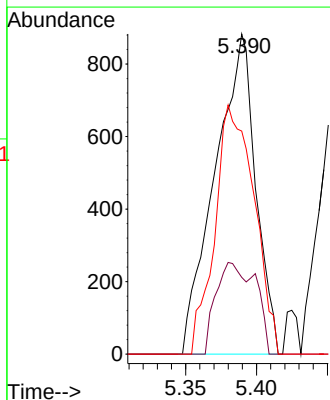
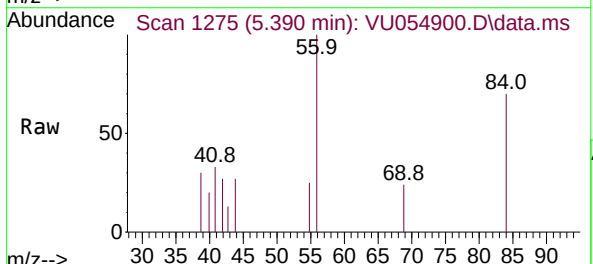
Manual Integrations
APPROVED

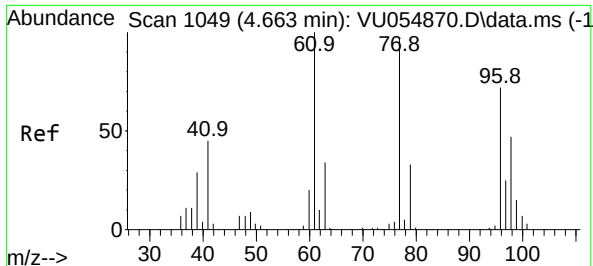
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#19
Cyclohexane
Concen: 0.299 ug/l
RT: 5.390 min Scan# 1275
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 56 Resp: 1764
Ion Ratio Lower Upper
56 100
69 20.0 24.7 37.1#
84 75.2 76.5 114.7#





#22

cis-1,2-Dichloroethene

Concen: 0.223 ug/l m

RT: 4.685 min Scan# 1056

Delta R.T. 0.023 min

Lab File: VU054900.D

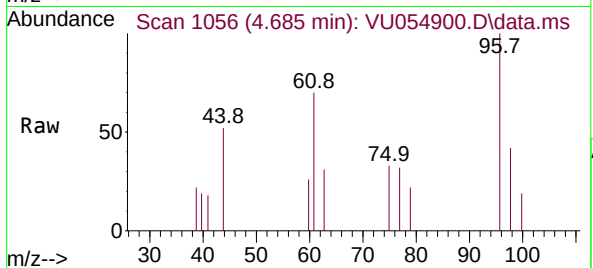
Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023



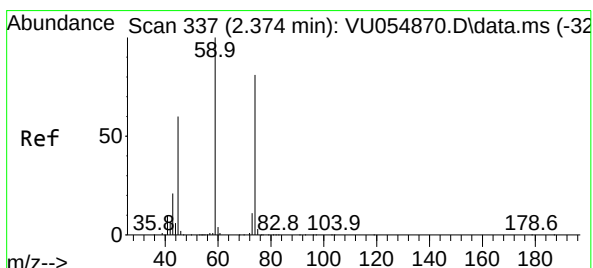
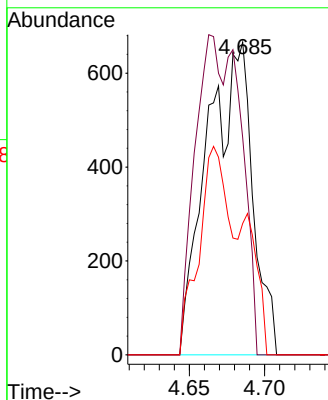
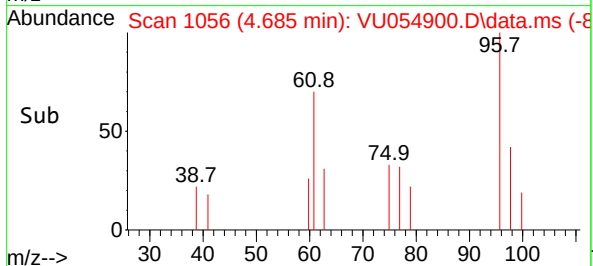
Tgt Ion:	96	Resp:	1394
Ion	Ratio	Lower	Upper
96	100		
61	63.1	0.0	332.0
98	46.8	32.5	97.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#23

Diethyl Ether

Concen: 0.236 ug/l

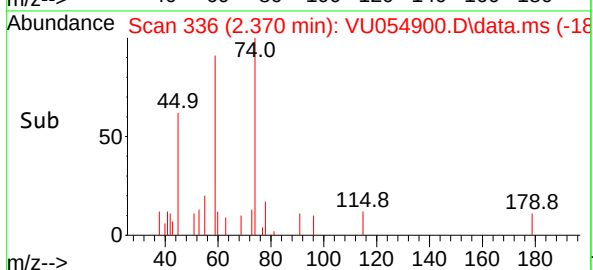
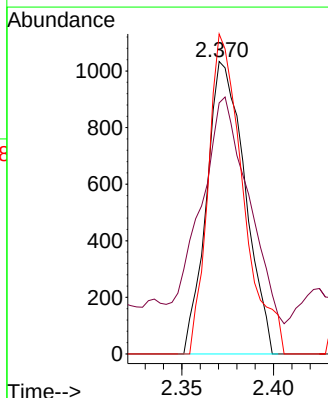
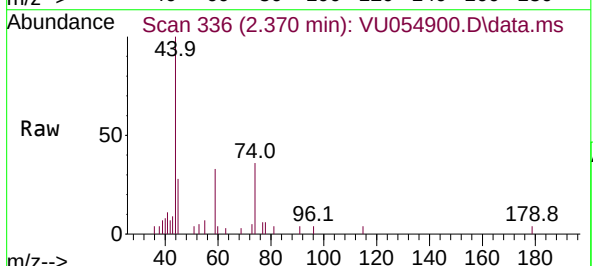
RT: 2.370 min Scan# 336

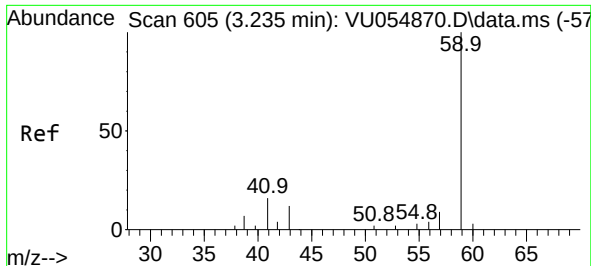
Delta R.T. -0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

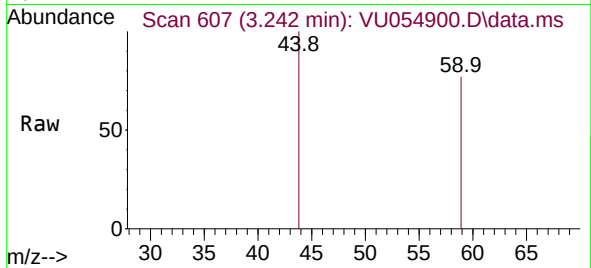
Tgt Ion:	59	Resp:	1501
Ion	Ratio	Lower	Upper
59	100		
45	95.4	51.4	77.0#
74	99.9	63.1	94.7#





#24
tert-Butyl Alcohol
Concen: 0.949 ug/l m
RT: 3.242 min Scan# 605
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

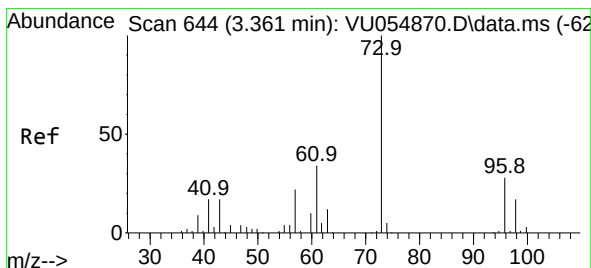
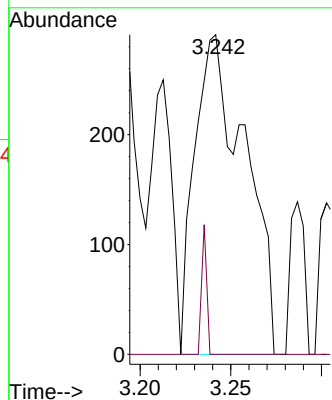
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion: 59 Resp: 562
Ion Ratio Lower Upper
59 100
57 4.1 2.2 3.2

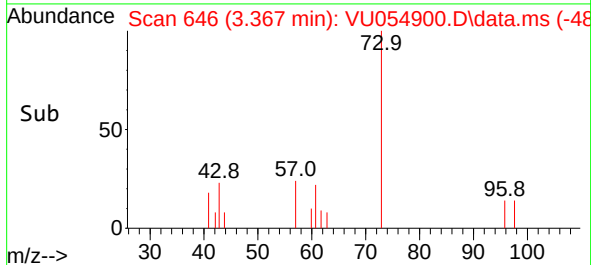
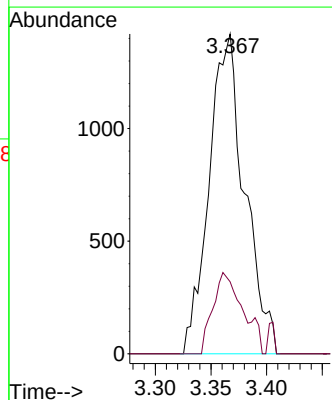
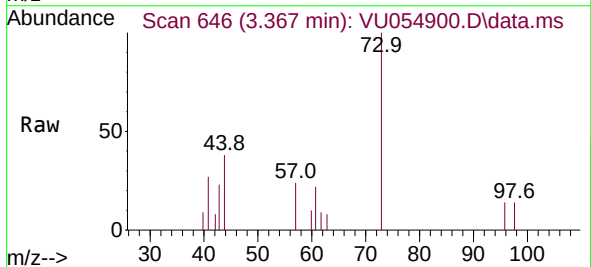
Manual Integrations
APPROVED

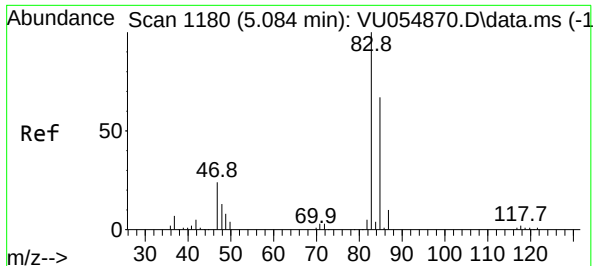
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#25
Methyl tert-Butyl Ether
Concen: 0.236 ug/l
RT: 3.367 min Scan# 646
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 73 Resp: 3153
Ion Ratio Lower Upper
73 100
43 21.5 14.6 22.0





#27

Chloroform

Concen: 0.272 ug/l

RT: 5.090 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

Tgt Ion: 83 Resp: 3068

Ion Ratio Lower Upper

83 100

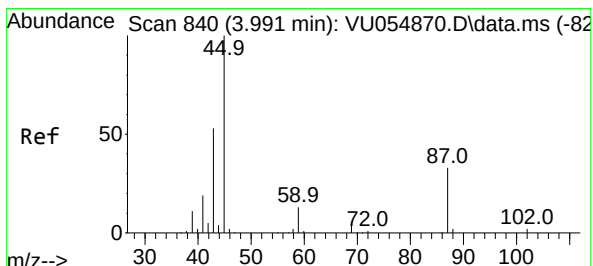
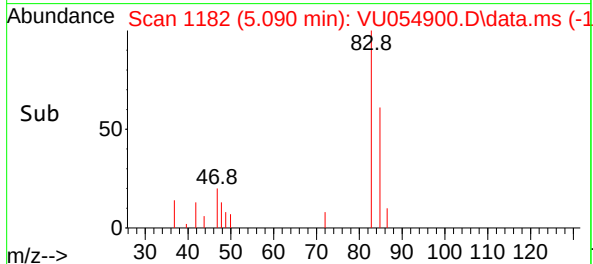
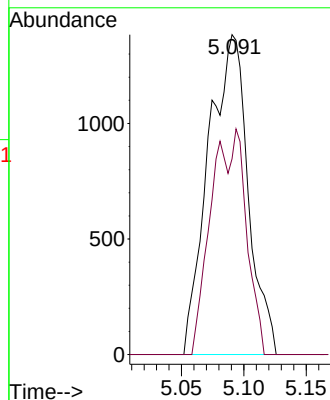
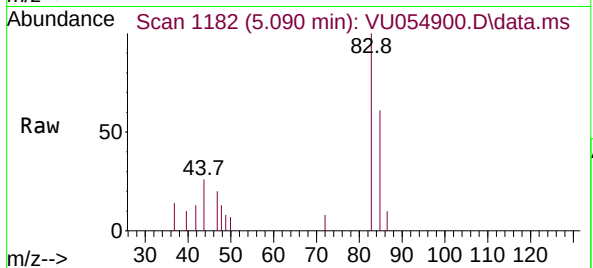
85 61.2 0.0 135.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#31

Isopropyl Ether

Concen: 0.219 ug/l

RT: 3.997 min Scan# 842

Delta R.T. 0.006 min

Lab File: VU054900.D

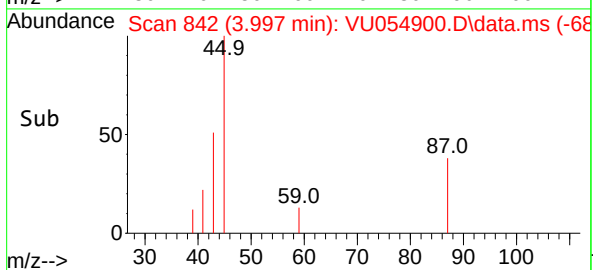
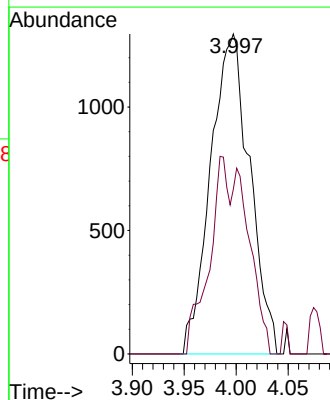
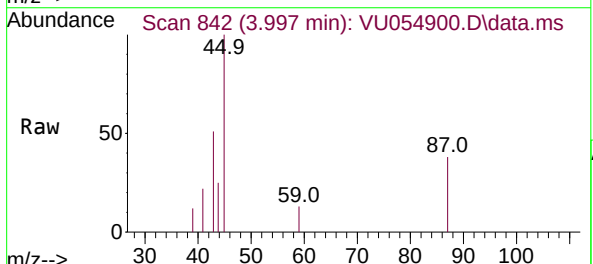
Acq: 27 Jul 2023 17:42

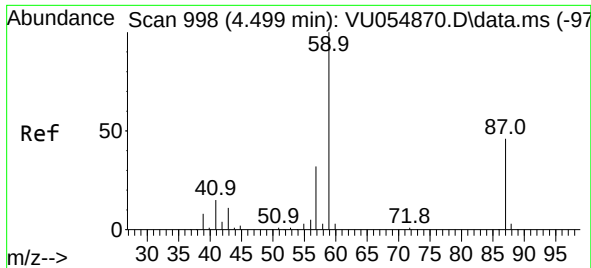
Tgt Ion: 45 Resp: 3396

Ion Ratio Lower Upper

45 100

43 31.9 26.4 79.2





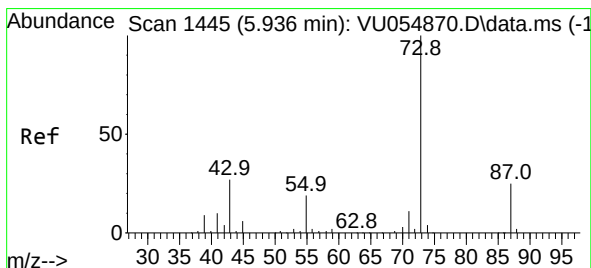
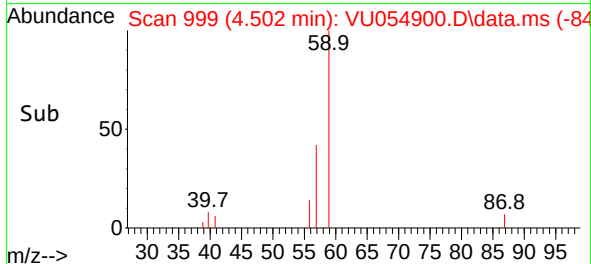
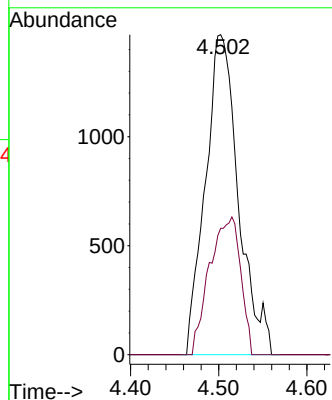
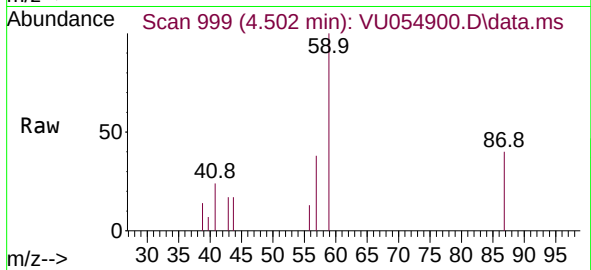
#32
Ethyl-t-butyl ether
Concen: 0.240 ug/l m
RT: 4.502 min Scan# 998
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion: 59 Resp: 3824
Ion Ratio Lower Upper
59 100
87 40.2 35.7 53.5

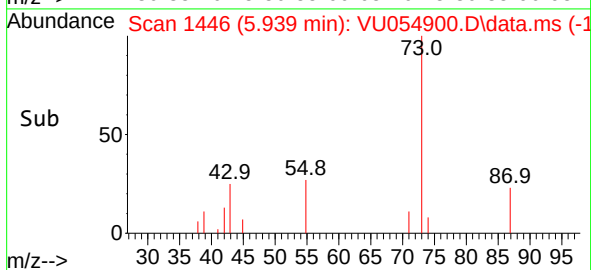
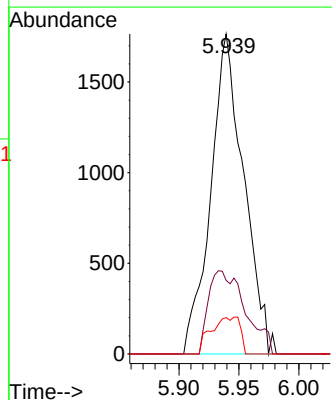
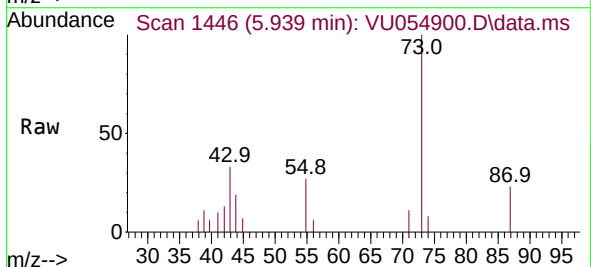
Manual Integrations
APPROVED

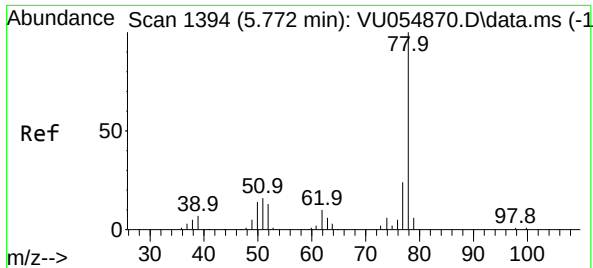
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#33
Tert-Amyl methyl ether
Concen: 0.223 ug/l
RT: 5.939 min Scan# 1446
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 73 Resp: 3372
Ion Ratio Lower Upper
73 100
87 29.2 19.6 29.4
71 10.1 9.1 13.7





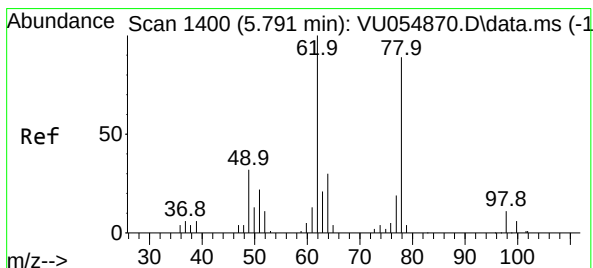
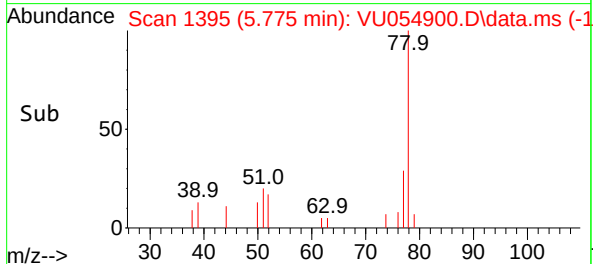
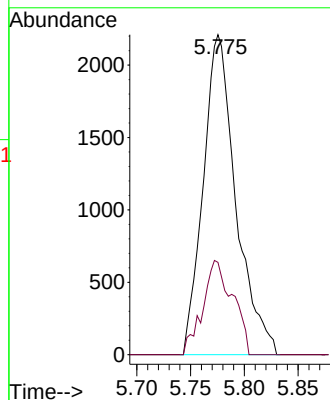
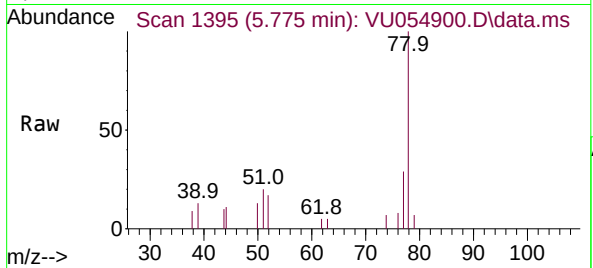
#35
Benzene
Concen: 0.207 ug/l
RT: 5.775 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion: 78 Resp: 4662
Ion Ratio Lower Upper
78 100
77 28.9 19.4 29.2

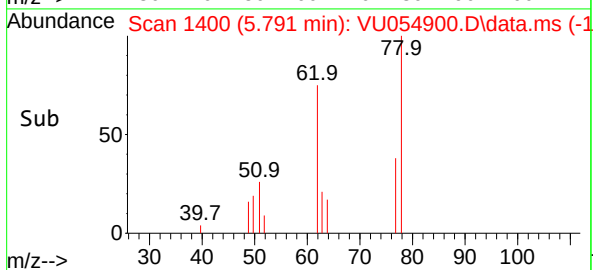
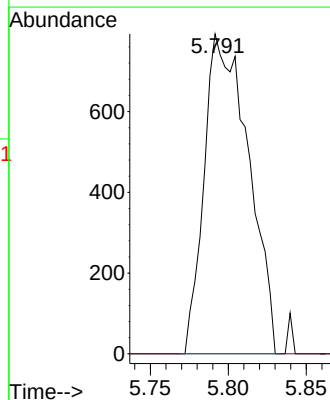
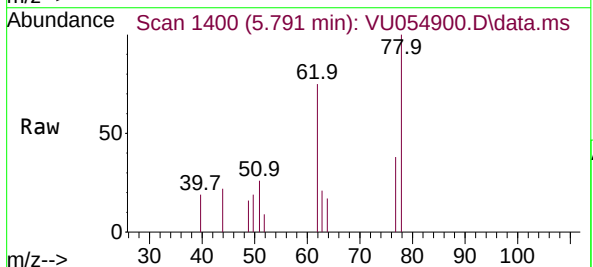
Manual Integrations
APPROVED

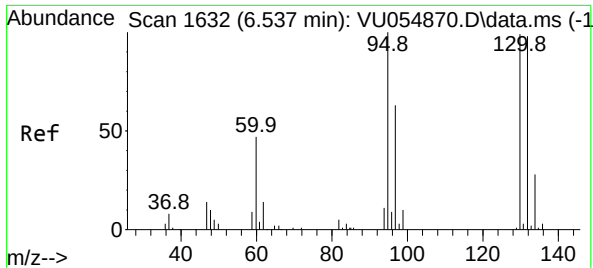
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#36
1,2-Dichloroethane
Concen: 0.244 ug/l
RT: 5.791 min Scan# 1400
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

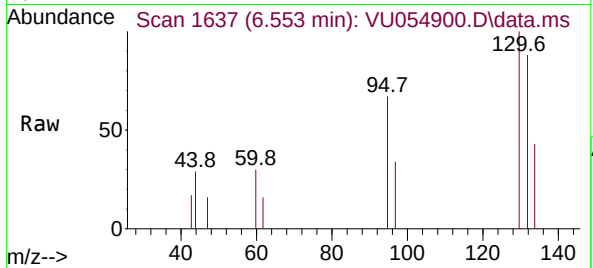
Tgt Ion: 62 Resp: 1559
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#





#37
Trichloroethene
Concen: 0.204 ug/l m
RT: 6.553 min Scan# 1
Delta R.T. 0.016 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

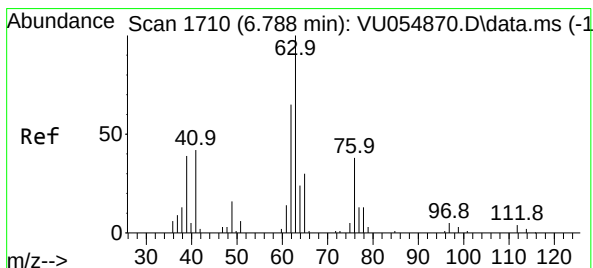
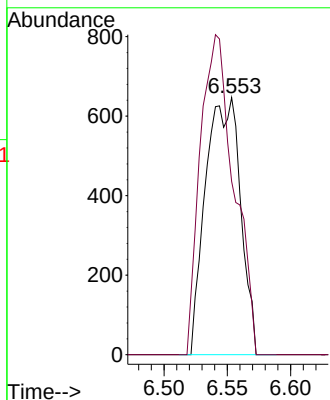
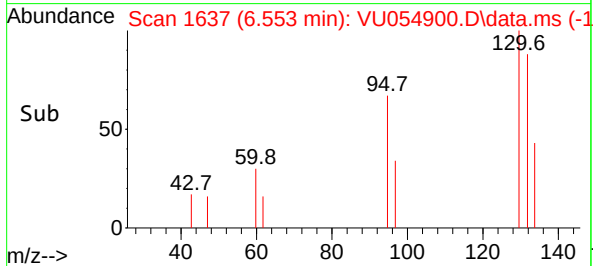
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



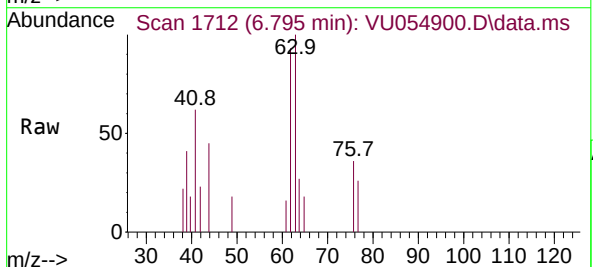
Tgt Ion:130 Resp: 123
Ion Ratio Lower Upper
130 100
95 67.4 76.8 115.2

Manual Integrations
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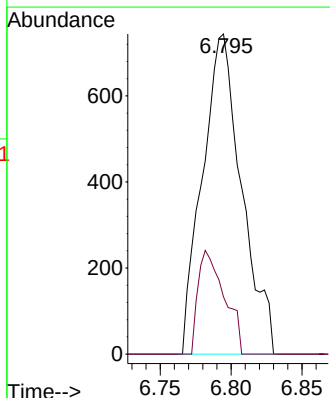
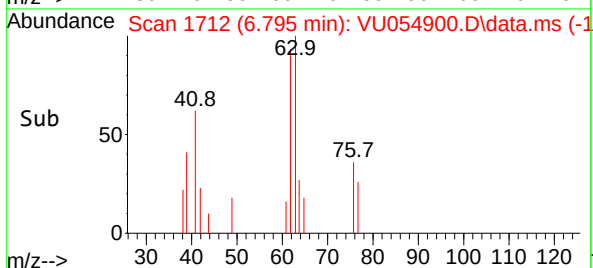
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

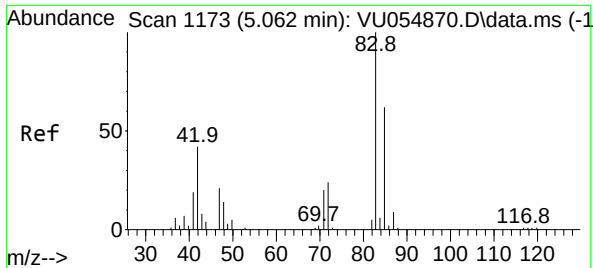


#38
1,2-Dichloropropane
Concen: 0.225 ug/l
RT: 6.795 min Scan# 1712
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



Tgt Ion: 63 Resp: 1430
Ion Ratio Lower Upper
63 100
65 14.1 24.3 36.5





#41

Tetrahydrofuran

Concen: 0.409 ug/l m

RT: 5.065 min Scan# 1173

Delta R.T. 0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

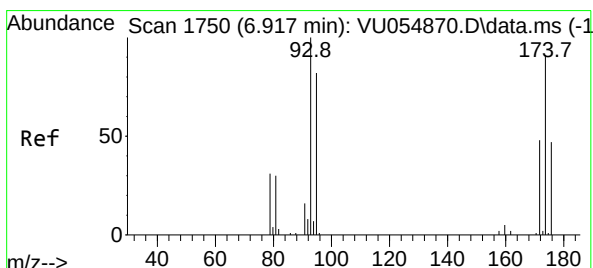
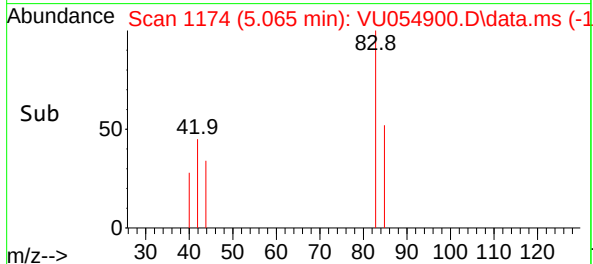
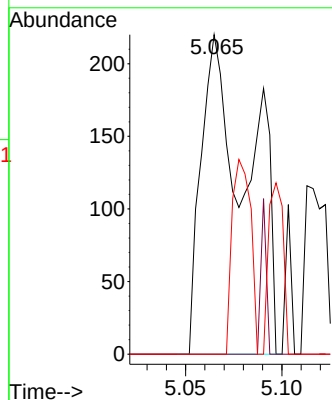
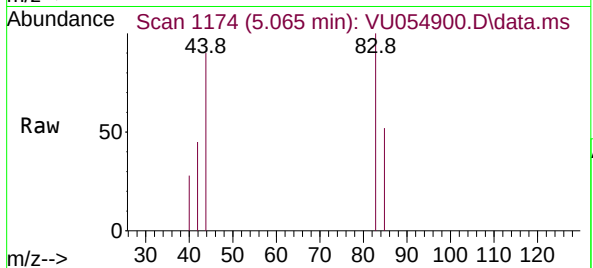
Tgt Ion:	42	Resp:	369
Ion Ratio	Lower	Upper	
42	100		
72	0.0	42.1	63.1
71	0.0	39.7	59.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#43

Dibromomethane

Concen: 0.229 ug/l

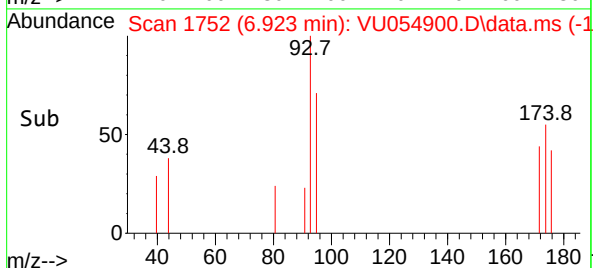
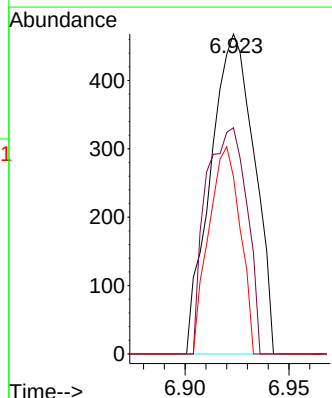
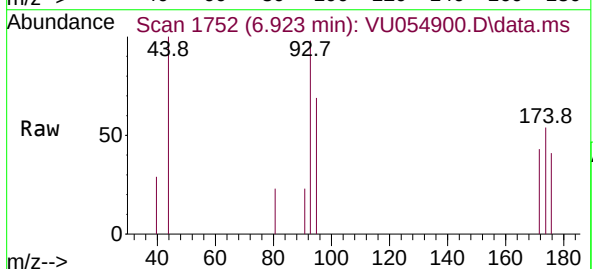
RT: 6.923 min Scan# 1752

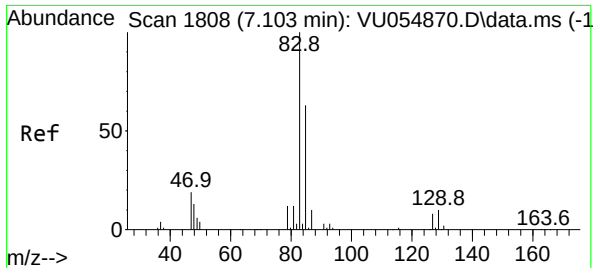
Delta R.T. 0.006 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

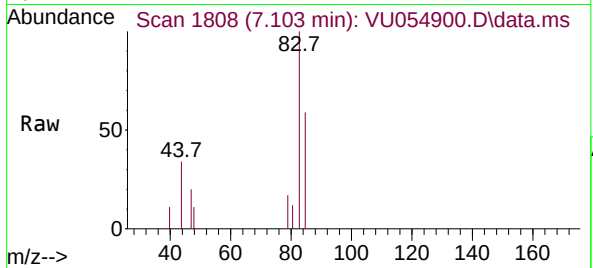
Tgt Ion:	93	Resp:	685
Ion Ratio	Lower	Upper	
93	100		
95	65.8	64.7	97.1
174	46.3	74.4	111.6





#44
Bromodichloromethane
Concen: 0.215 ug/l
RT: 7.103 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

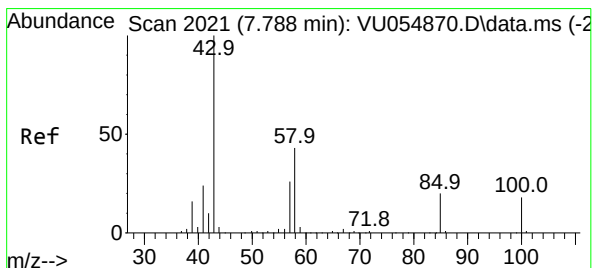
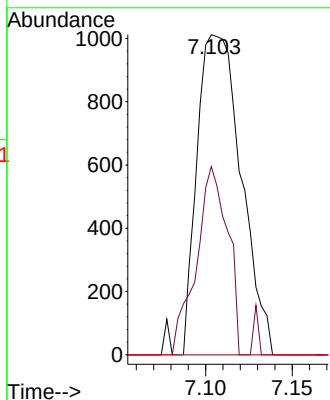
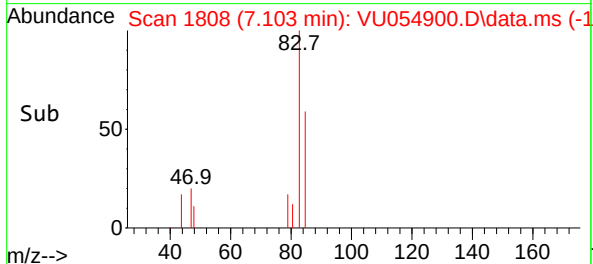
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



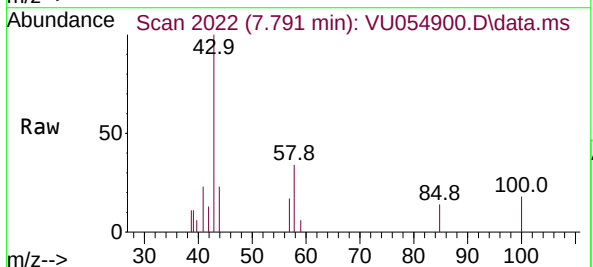
Tgt Ion: 83 Resp: 1790
Ion Ratio Lower Upper
83 100
85 58.8 52.2 78.2
127 0.0 6.1 9.1

Manual Integrations
APPROVED

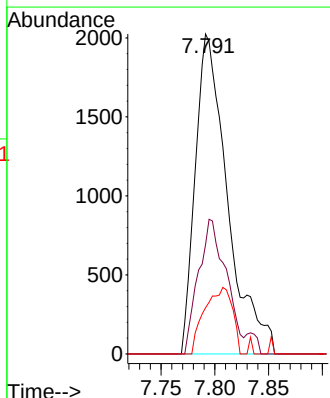
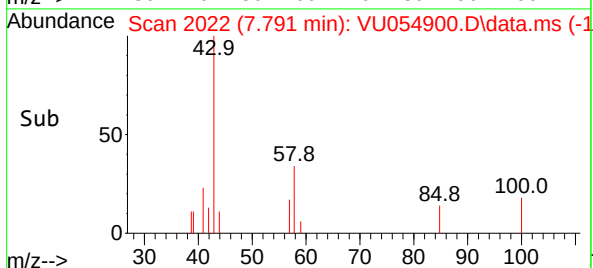
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

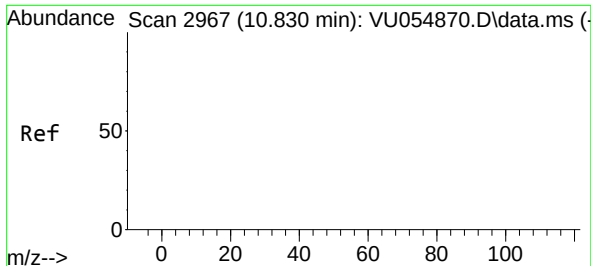


#45
4-Methyl-2-Pentanone
Concen: 1.210 ug/l
RT: 7.791 min Scan# 2022
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



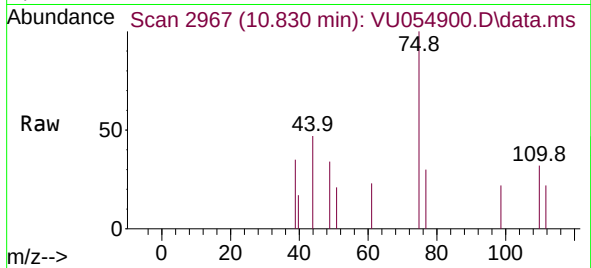
Tgt Ion: 43 Resp: 4217
Ion Ratio Lower Upper
43 100
58 36.4 21.3 63.7
85 18.0 15.3 22.9





#46
t-1,4-Dichloro-2-butene
Concen: 0.416 ug/l m
RT: 10.830 min Scan# 2967
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

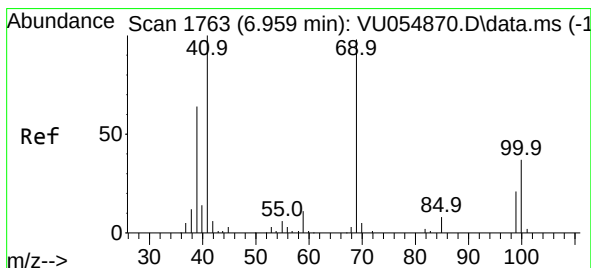
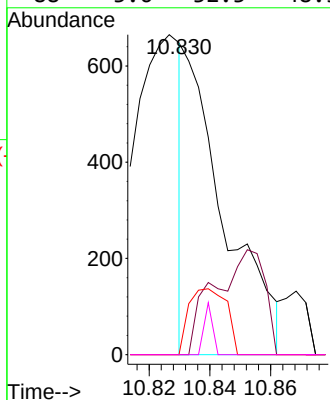
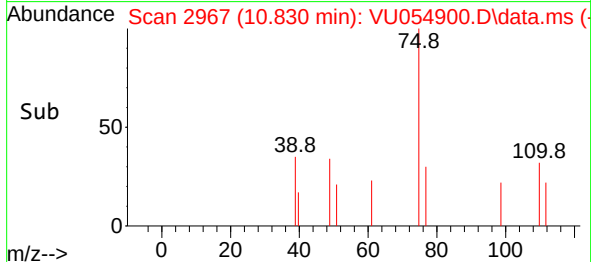
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT3-2023



Tgt Ion: 75 Resp: 583
Ion Ratio Lower Upper
75 100
53 42.7 62.9 94.3
89 20.2 47.8 71.8
88 3.6 32.3 48.5

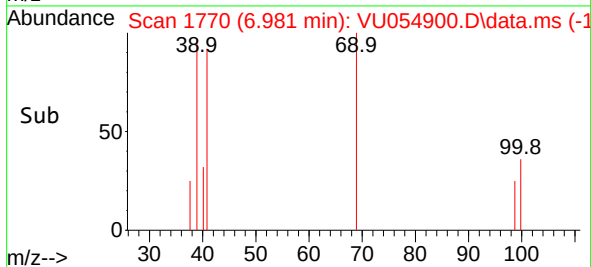
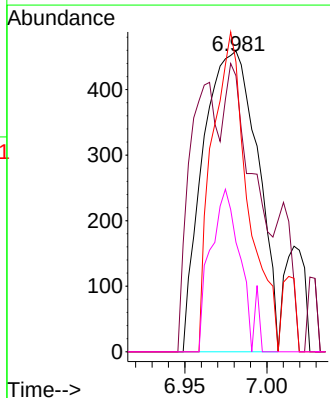
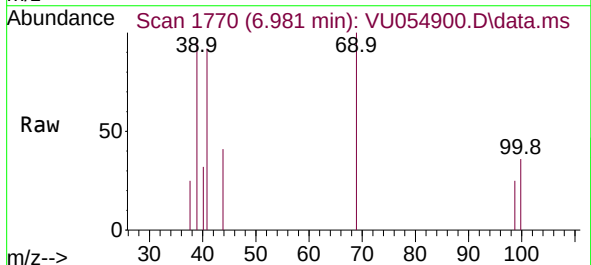
Manual Integrations
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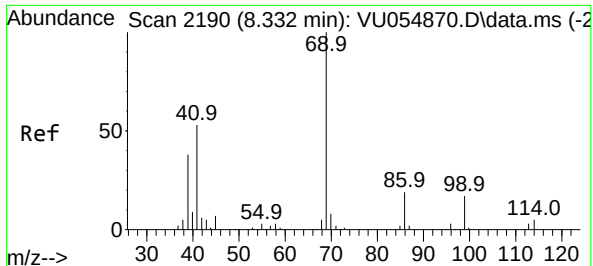
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#47
Methyl methacrylate
Concen: 0.388 ug/l
RT: 6.981 min Scan# 1770
Delta R.T. 0.023 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion: 69 Resp: 1060
Ion Ratio Lower Upper
69 100
41 30.8 0.0 193.0
39 69.8 50.4 75.6
100 30.1 28.8 43.2





#48

Ethyl methacrylate

Concen: 0.237 ug/l

RT: 8.335 min Scan# 2191

Delta R.T. 0.003 min

Lab File: VU054900.D

Acq: 27 Jul 2023 17:42

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2023

Tgt Ion: 69 Resp: 131

Ion Ratio Lower Upper

69 100

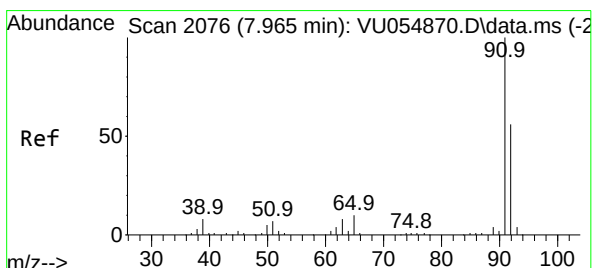
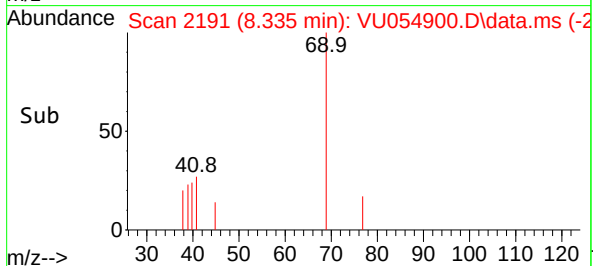
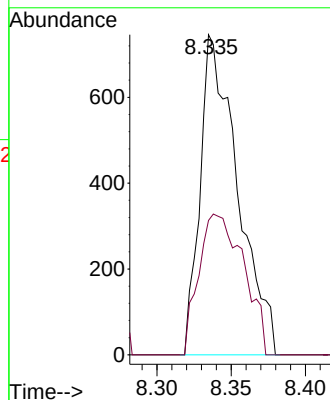
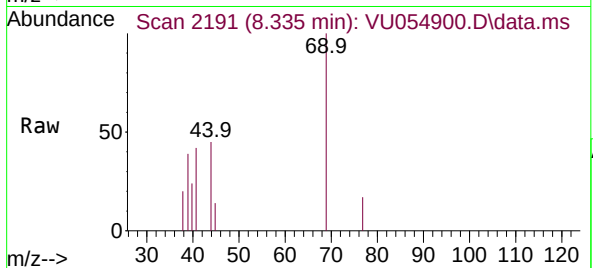
41 52.6 28.8 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/28/2023

Supervised By :Mahesh Dadoda 07/31/2023



#49

Toluene

Concen: 0.233 ug/l

RT: 7.971 min Scan# 2078

Delta R.T. 0.006 min

Lab File: VU054900.D

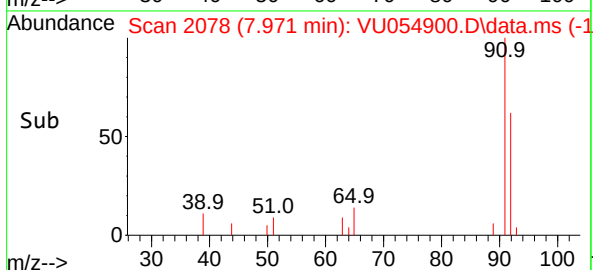
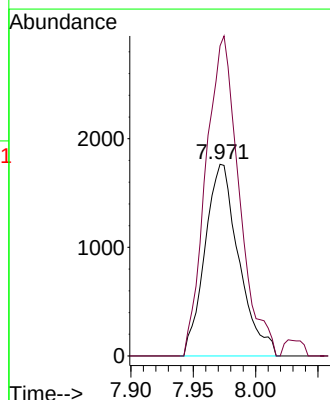
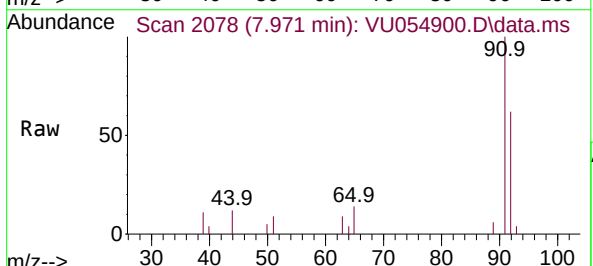
Acq: 27 Jul 2023 17:42

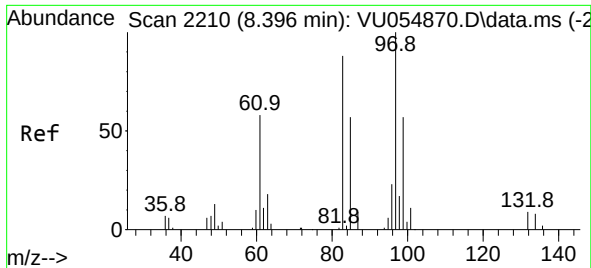
Tgt Ion: 92 Resp: 3341

Ion Ratio Lower Upper

92 100

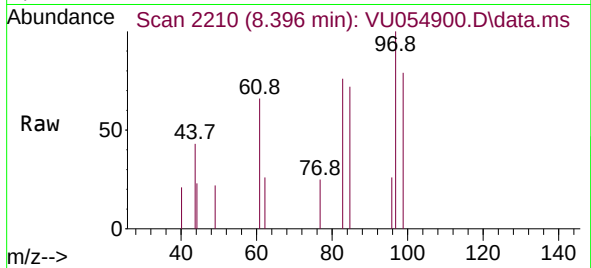
91 164.0 142.9 214.3





#52
1,1,2-Trichloroethane
Concen: 0.216 ug/l
RT: 8.396 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

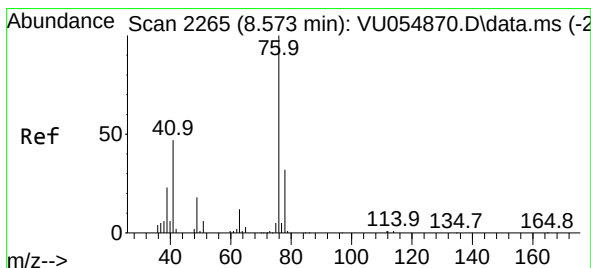
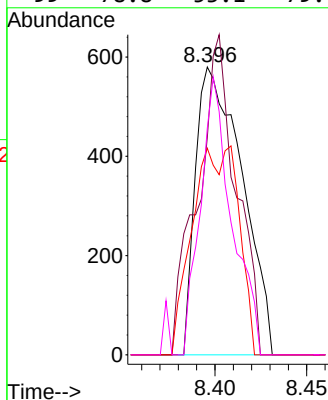
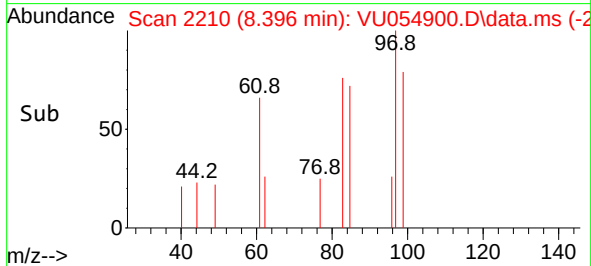
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT3-2023



Tgt Ion: 97 Resp: 102
Ion Ratio Lower Upper
97 100
83 75.5 77.4 116.2
85 71.7 47.8 71.8
99 78.8 53.1 79.7

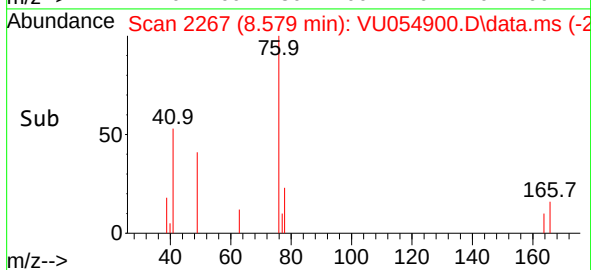
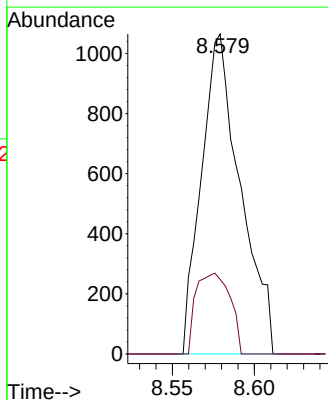
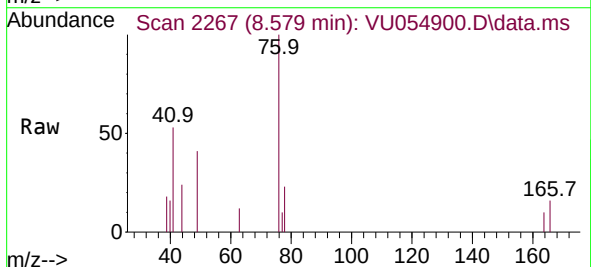
Manual Integrations
APPROVED

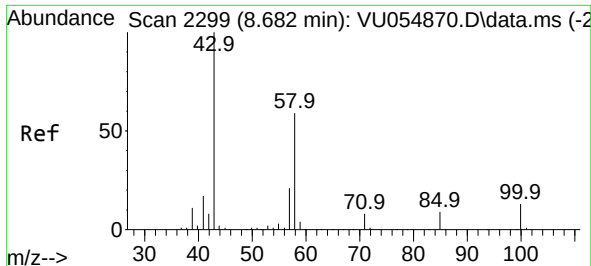
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#53
1,3-Dichloropropane
Concen: 0.229 ug/l
RT: 8.579 min Scan# 2267
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

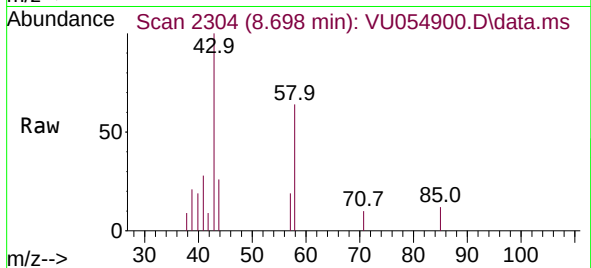
Tgt Ion: 76 Resp: 1758
Ion Ratio Lower Upper
76 100
78 22.0 24.6 36.8





#54
2-Hexanone
Concen: 0.871 ug/l
RT: 8.698 min Scan# 2158
Delta R.T. 0.016 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

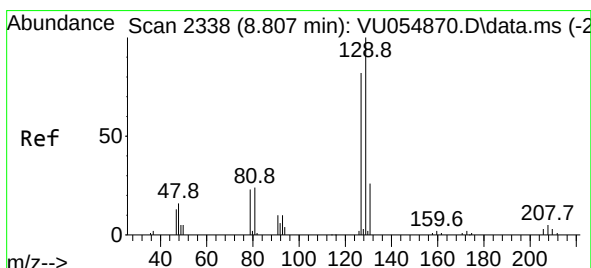
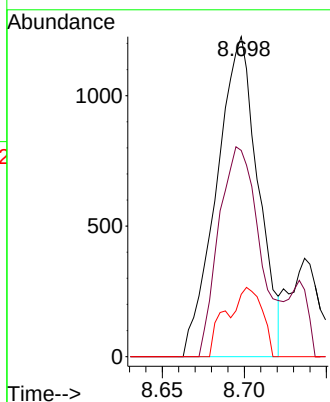
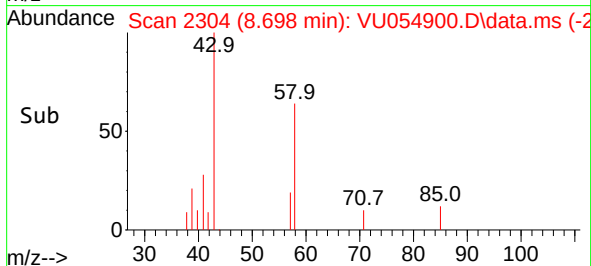
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion: 43 Resp: 2158
Ion Ratio Lower Upper
43 100
58 65.8 38.9 78.9
57 18.6 0.0 38.7

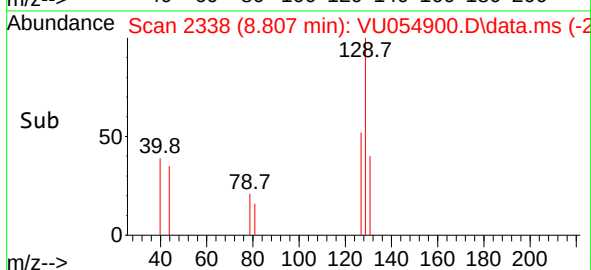
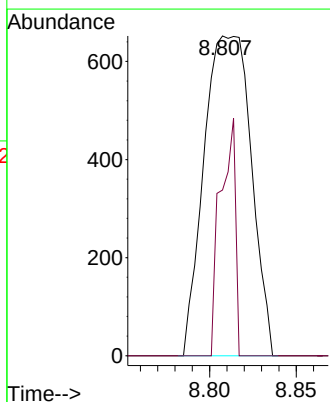
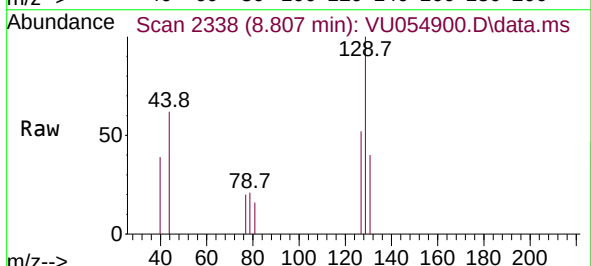
Manual Integrations
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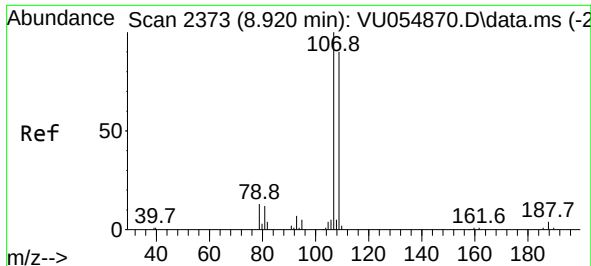
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#55
Dibromochloromethane
Concen: 0.228 ug/l
RT: 8.807 min Scan# 2338
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:129 Resp: 1237
Ion Ratio Lower Upper
129 100
127 23.8 61.4 92.0#





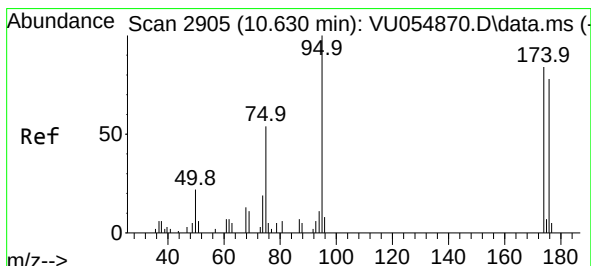
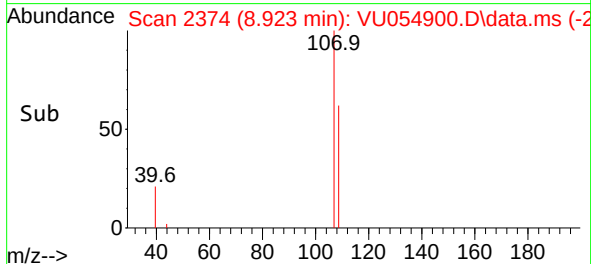
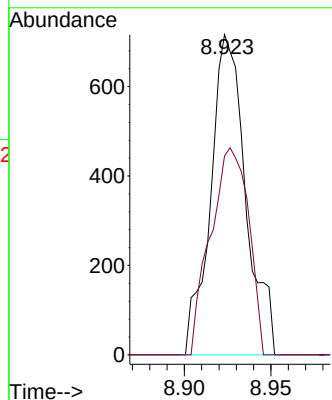
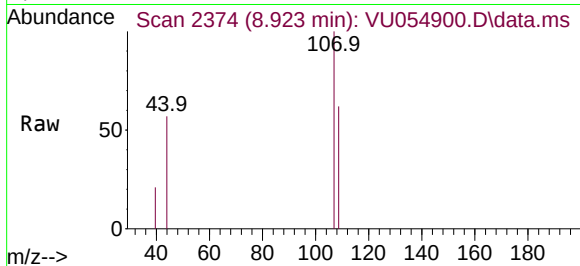
#56
1,2-Dibromoethane
Concen: 0.253 ug/l
RT: 8.923 min Scan# 2101
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion:107 Resp: 101
Ion Ratio Lower Upper
107 100
109 70.0 0.0 185.4

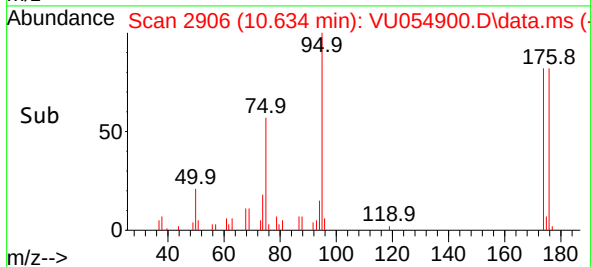
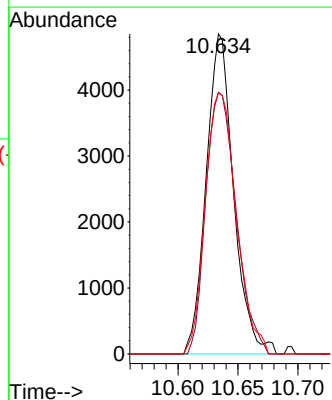
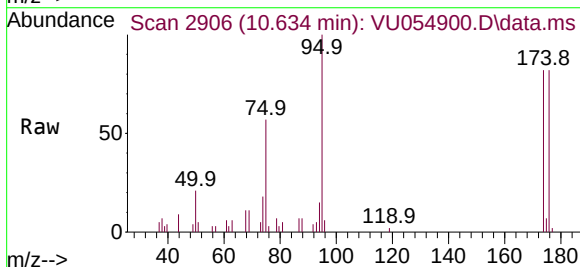
Manual Integrations
APPROVED

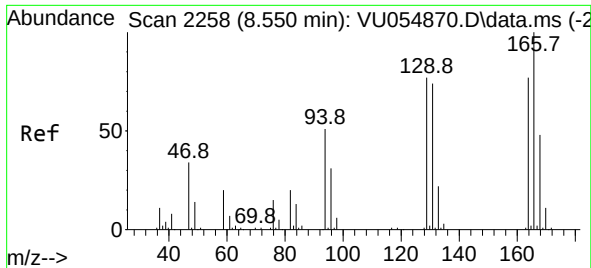
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#57
4-Bromofluorobenzene
Concen: 1.016 ug/l
RT: 10.634 min Scan# 2906
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

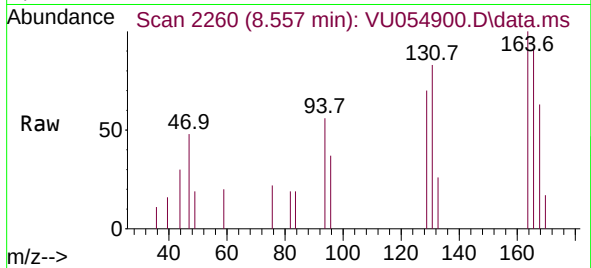
Tgt Ion: 95 Resp: 7698
Ion Ratio Lower Upper
95 100
174 90.6 79.3 118.9
176 92.4 71.5 107.3





#58
Tetrachloroethene
Concen: 0.266 ug/l
RT: 8.557 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

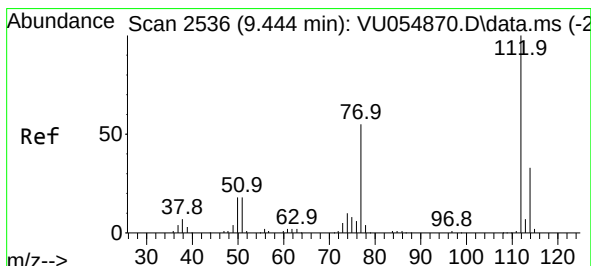
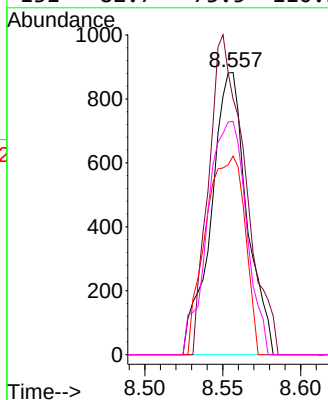
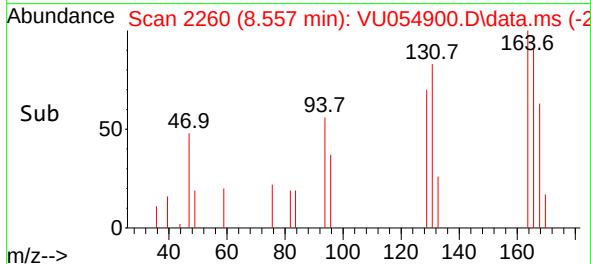
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion:164 Resp: 140
Ion Ratio Lower Upper
164 100
166 90.6 100.4 150.6
129 70.3 71.9 107.9
131 82.7 73.5 110.3

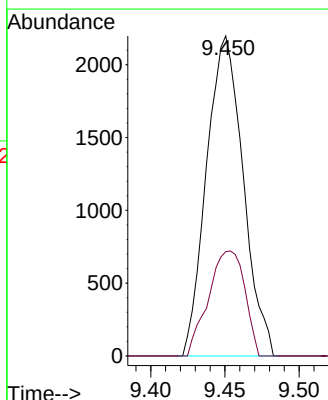
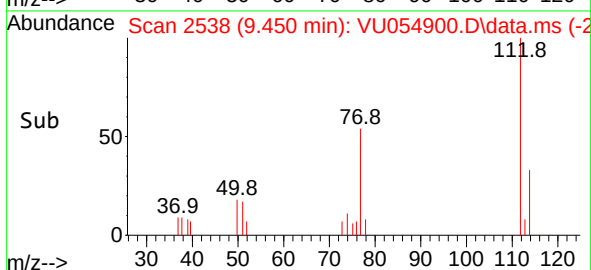
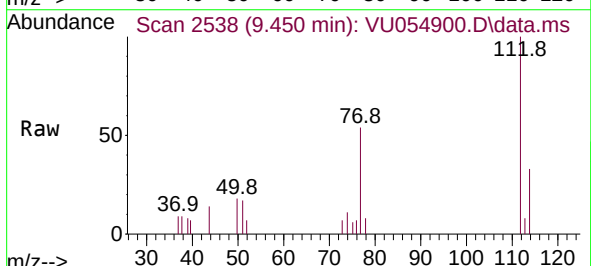
Manual Integrations
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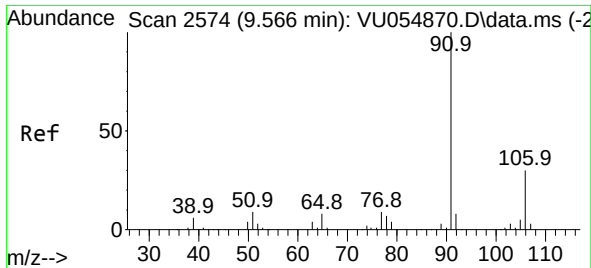
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#59
Chlorobenzene
Concen: 0.217 ug/l
RT: 9.450 min Scan# 2538
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:112 Resp: 3767
Ion Ratio Lower Upper
112 100
114 32.6 25.0 37.6





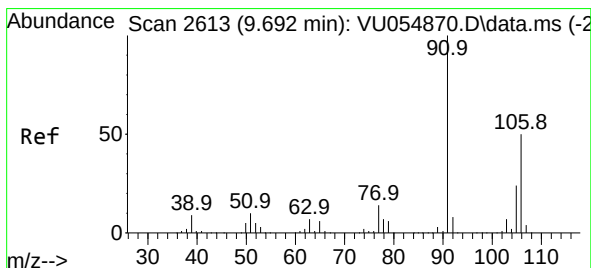
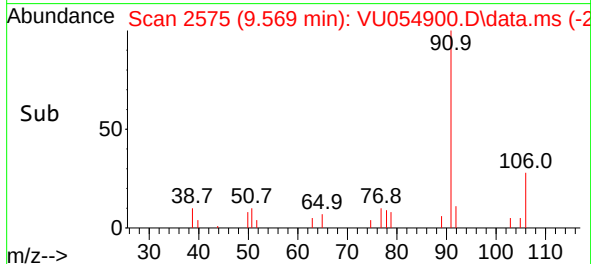
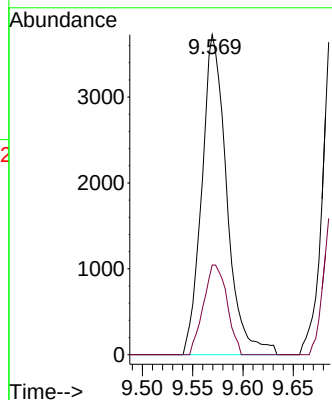
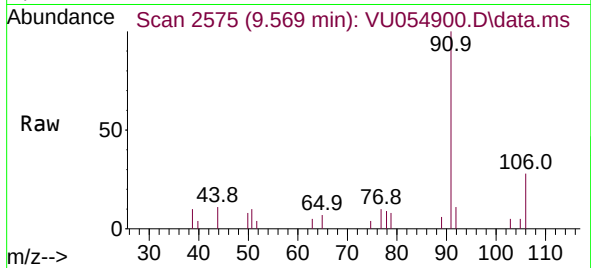
#63
Ethyl Benzene
Concen: 0.220 ug/l
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion: 91 Resp: 6430
Ion Ratio Lower Upper
91 100
106 28.0 24.2 36.2

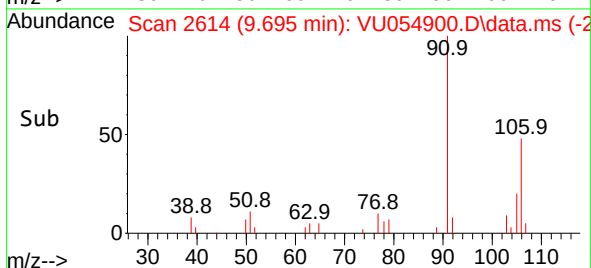
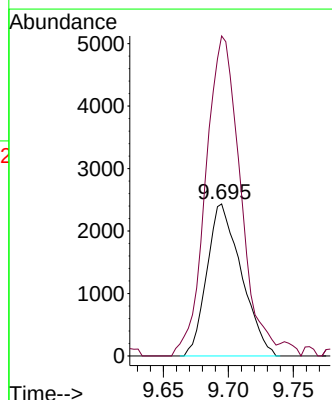
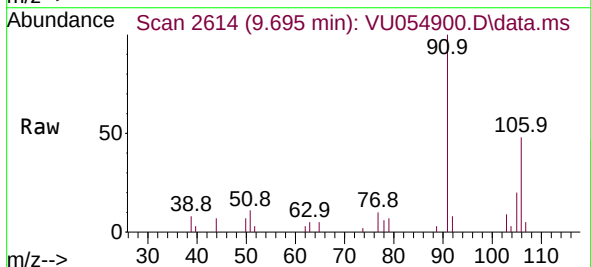
Manual Integrations
APPROVED

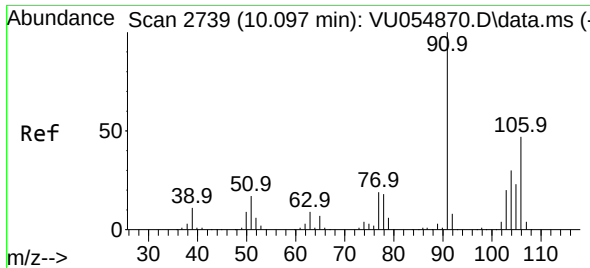
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#64
m/p-Xylenes
Concen: 0.410 ug/l
RT: 9.695 min Scan# 2614
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:106 Resp: 4481
Ion Ratio Lower Upper
106 100
91 212.5 158.8 238.2





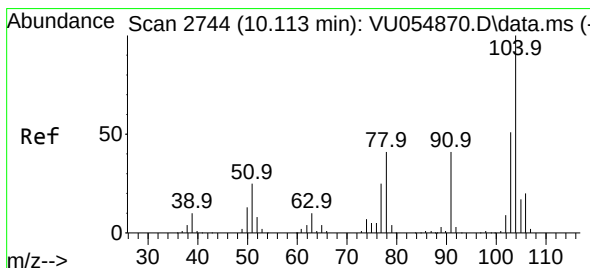
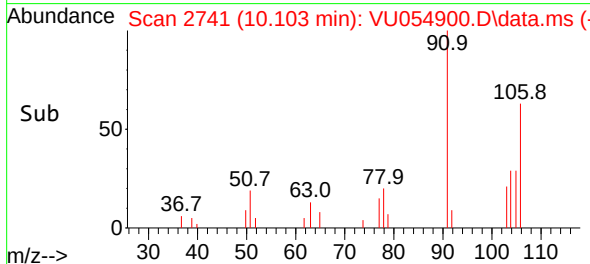
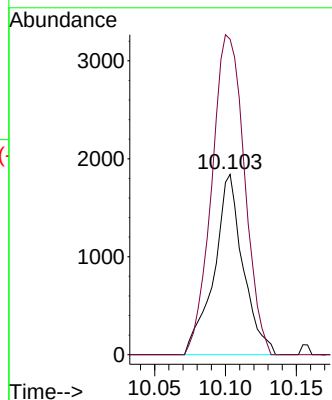
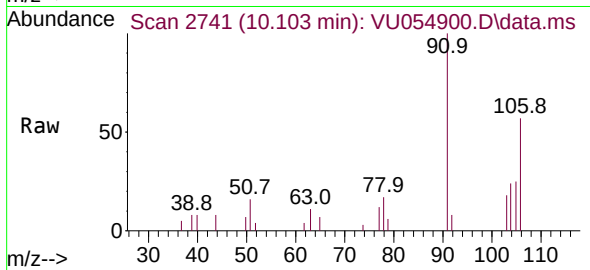
#65
o-Xylene
Concen: 0.234 ug/l
RT: 10.103 min Scan# 2739
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion:106 Resp: 262
Ion Ratio Lower Upper
106 100
91 200.3 108.9 326.8

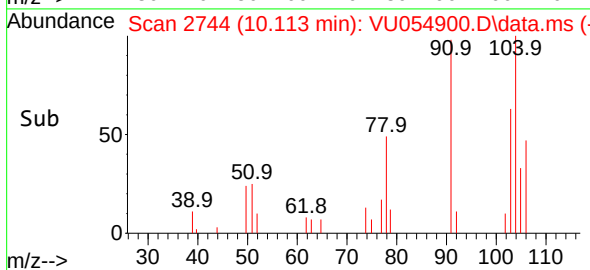
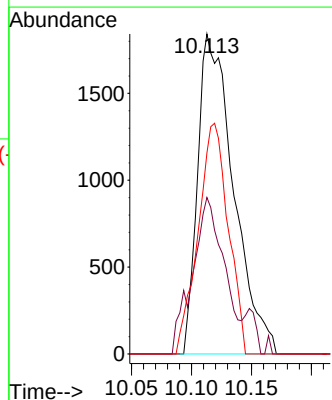
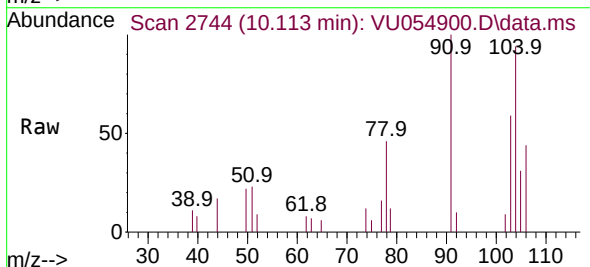
Manual Integrations
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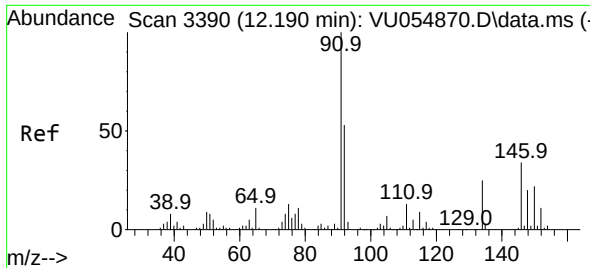
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#66
Styrene
Concen: 0.213 ug/l
RT: 10.113 min Scan# 2744
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

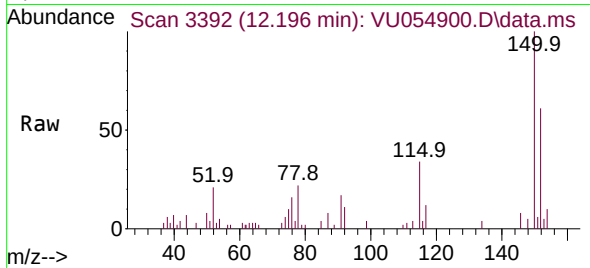
Tgt Ion:104 Resp: 3825
Ion Ratio Lower Upper
104 100
78 43.6 37.5 56.3
103 60.6 45.2 67.8





#68
1,2-Dichlorobenzene-d4
Concen: 1.007 ug/l
RT: 12.196 min Scan# 3390
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

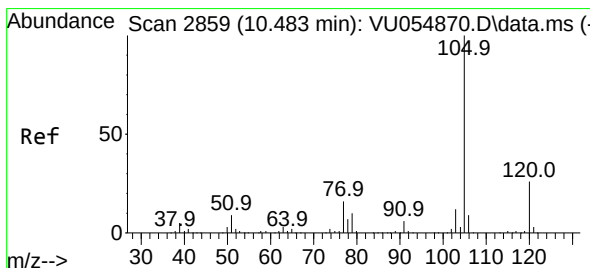
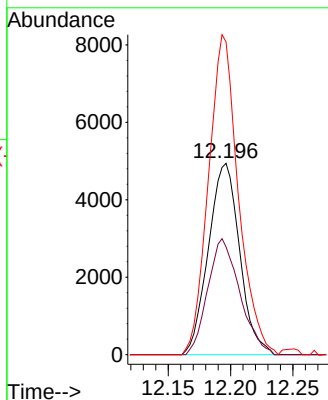
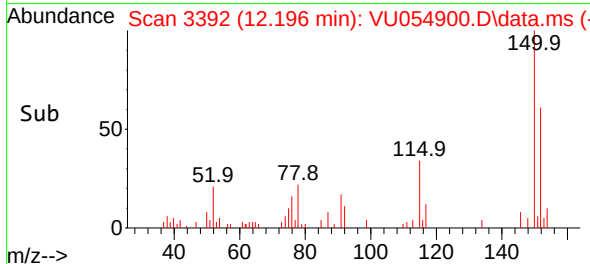
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



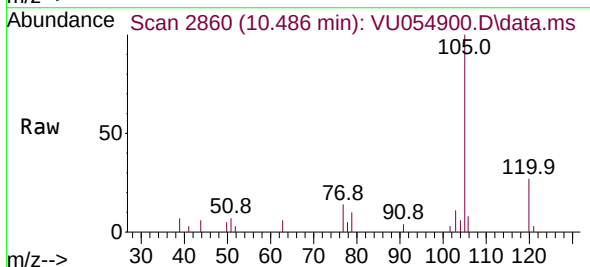
Tgt Ion:152 Resp: 8618
Ion Ratio Lower Upper
152 100
115 62.1 0.0 234.8
150 159.9 0.0 598.2

Manual Integrations
APPROVED

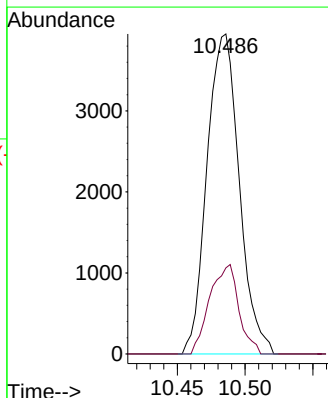
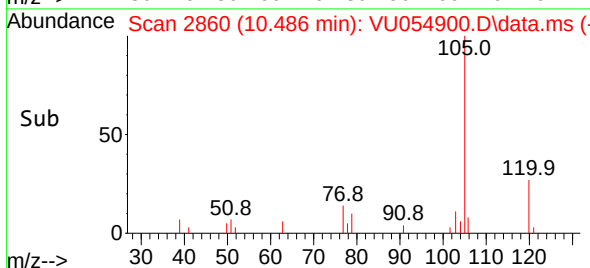
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

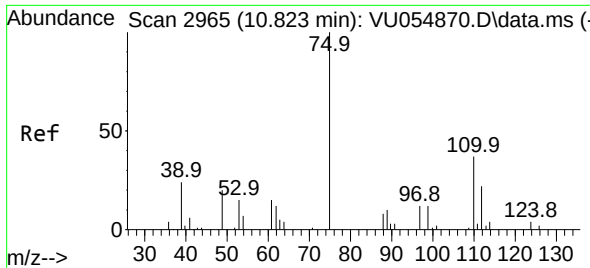


#69
Isopropylbenzene
Concen: 0.217 ug/l
RT: 10.486 min Scan# 2860
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



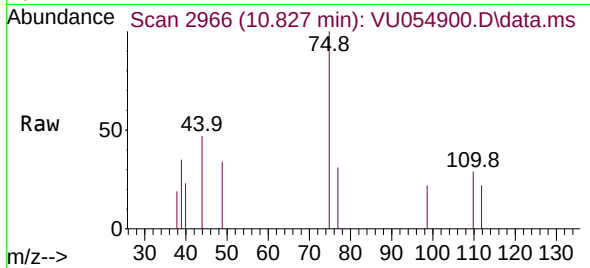
Tgt Ion:105 Resp: 6524
Ion Ratio Lower Upper
105 100
120 25.2 12.6 37.6





#71
1,2,3-Trichloropropane
Concen: 0.276 ug/l m
RT: 10.827 min Scan# 2965
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

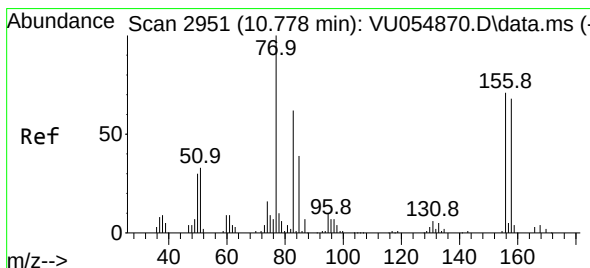
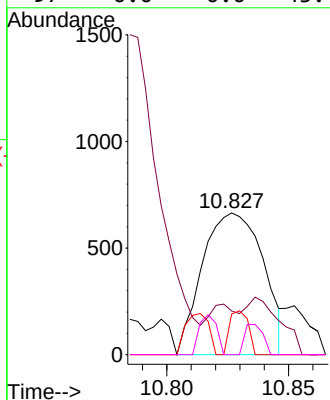
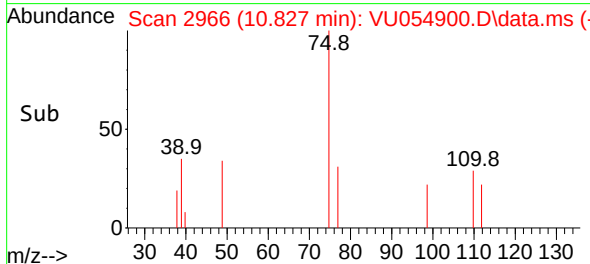
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



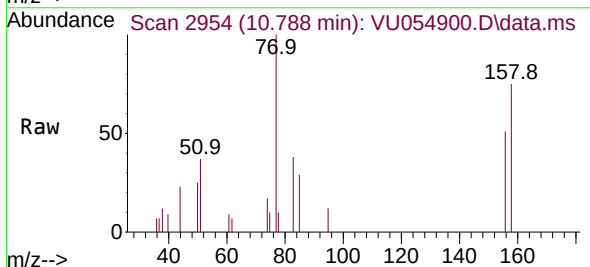
Tgt Ion: 75 Resp: 1154
Ion Ratio Lower Upper
75 100
77 17.4 0.0 0.0
110 9.4 0.0 80.8
97 0.0 0.0 43.4

Manual Integrations
APPROVED

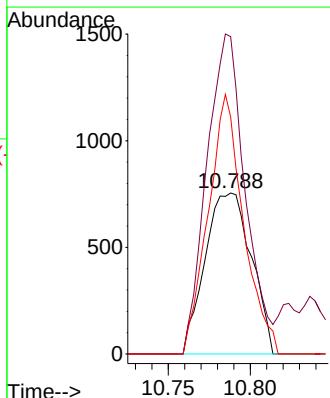
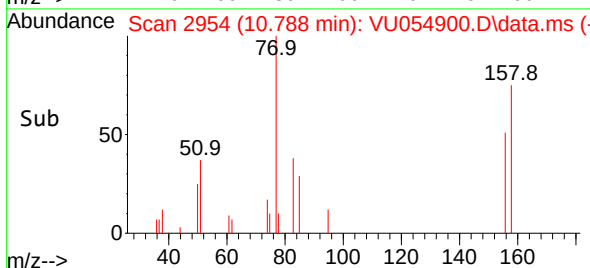
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

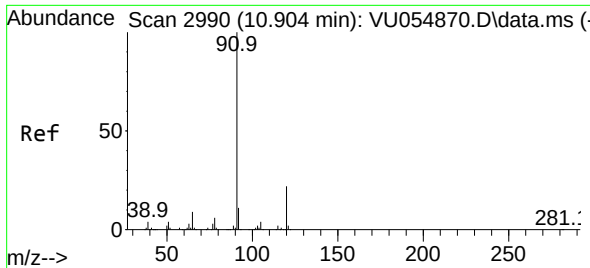


#72
Bromobenzene
Concen: 0.220 ug/l
RT: 10.788 min Scan# 2954
Delta R.T. 0.010 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



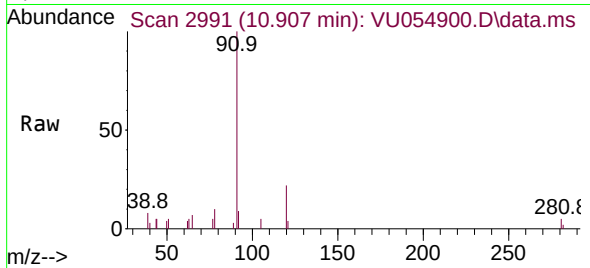
Tgt Ion:156 Resp: 1478
Ion Ratio Lower Upper
156 100
77 165.4 0.0 293.2
158 123.1 0.0 189.8





#73
n-propylbenzene
Concen: 0.202 ug/l
RT: 10.907 min Scan# 2991
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

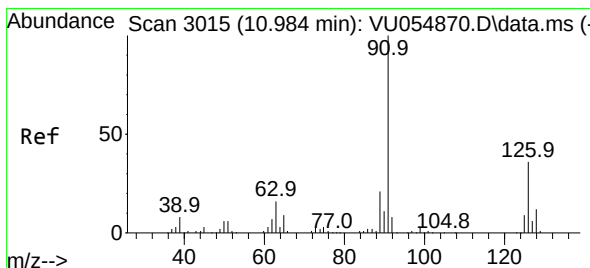
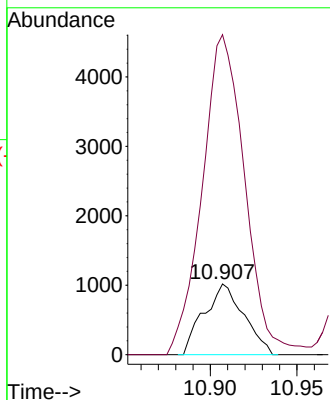
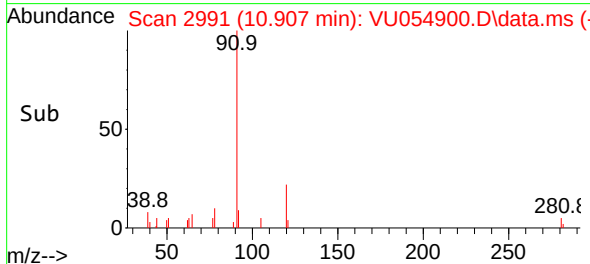
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion:120 Resp: 163
Ion Ratio Lower Upper
120 100
91 482.7 361.8 542.6

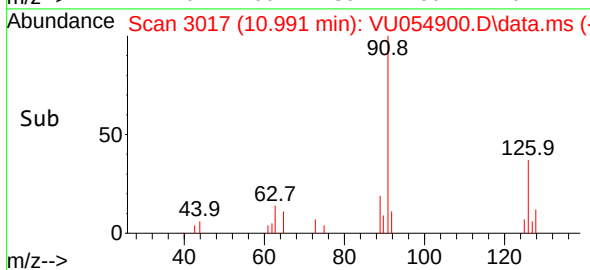
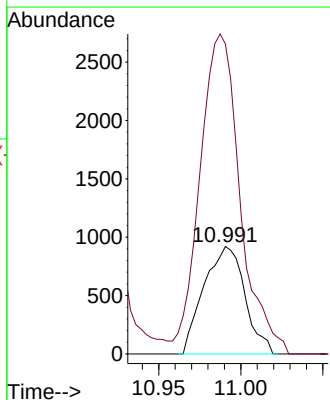
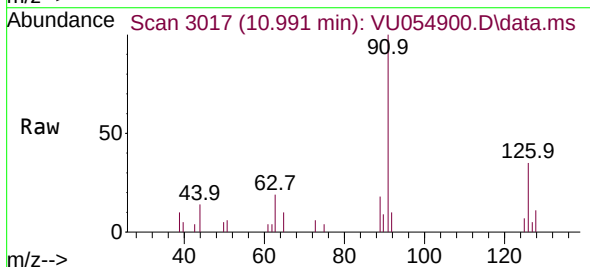
Manual Integrations
APPROVED

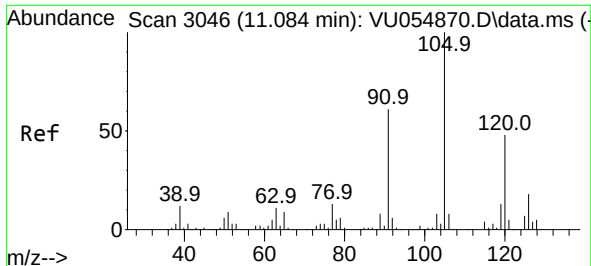
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#74
2-Chlorotoluene
Concen: 0.229 ug/l
RT: 10.991 min Scan# 3017
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Tgt Ion:126 Resp: 1598
Ion Ratio Lower Upper
126 100
91 291.1 0.0 561.4





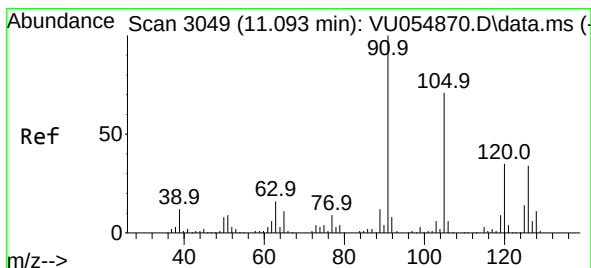
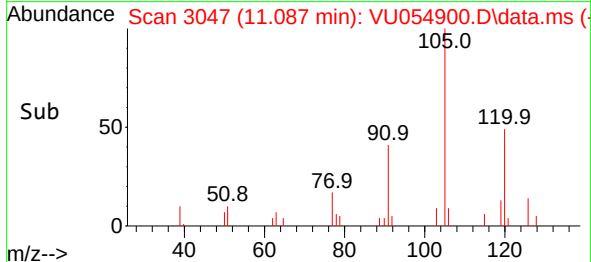
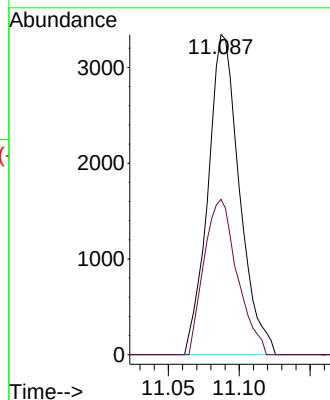
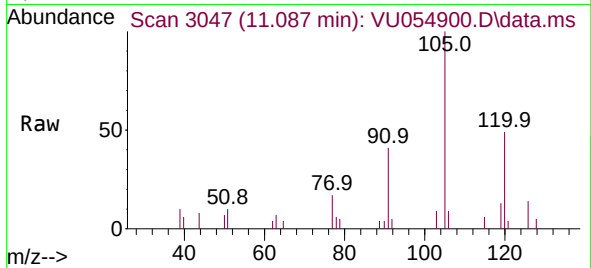
#75
1,3,5-Trimethylbenzene
Concen: 0.212 ug/l
RT: 11.087 min Scan# 3046
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023

Tgt Ion:105 Resp: 5179
Ion Ratio Lower Upper
105 100
120 51.0 39.0 58.4

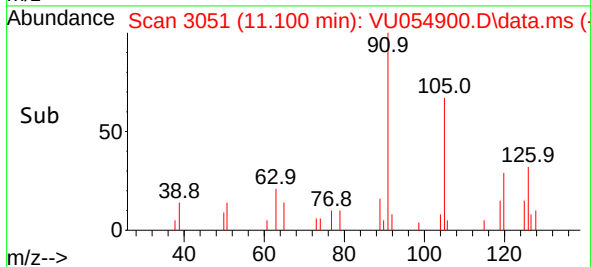
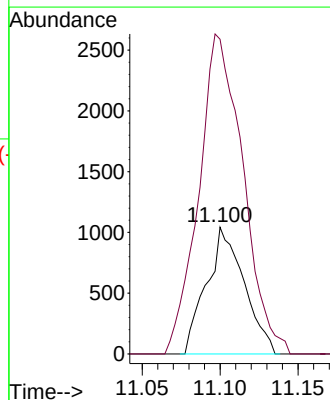
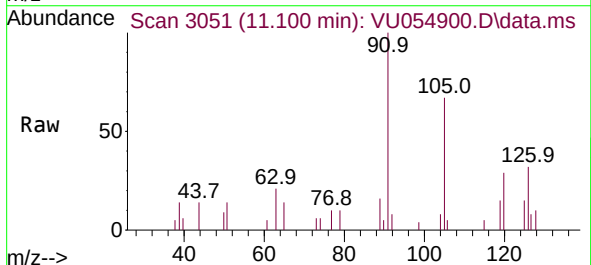
Manual Integrations
APPROVED

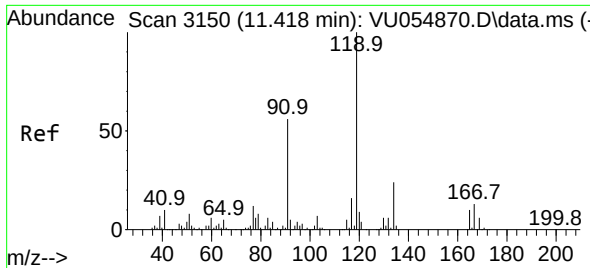
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#76
4-Chlorotoluene
Concen: 0.241 ug/l
RT: 11.100 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

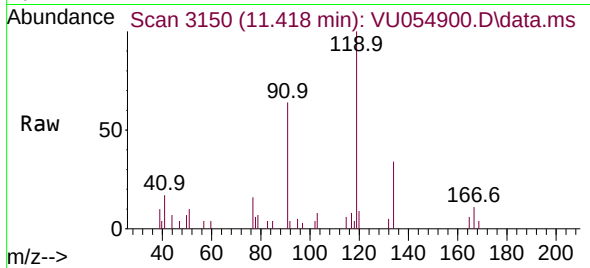
Tgt Ion:126 Resp: 1749
Ion Ratio Lower Upper
126 100
91 296.9 0.0 623.4





#77
tert-Butylbenzene
Concen: 0.208 ug/l
RT: 11.418 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

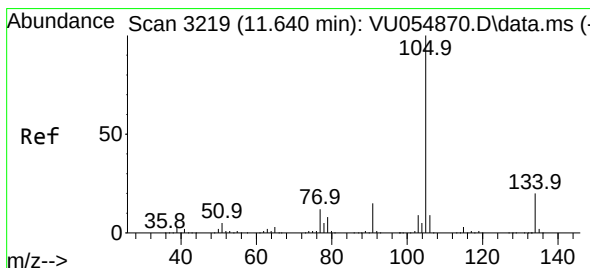
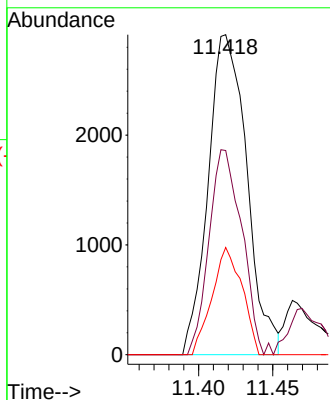
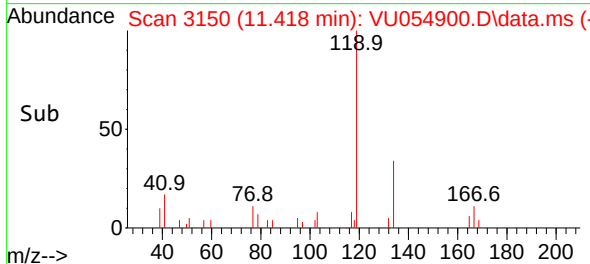
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT3-2023



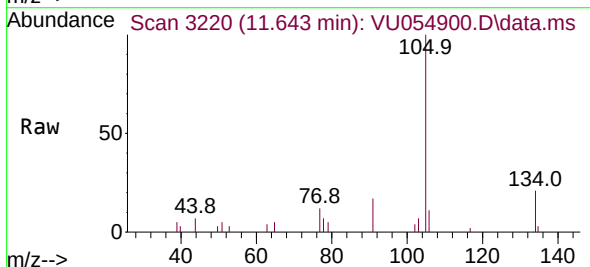
Tgt Ion:119 Resp: 5279
Ion Ratio Lower Upper
119 100
91 54.1 27.7 83.1
134 26.1 18.6 27.8

Manual Integrations
APPROVED

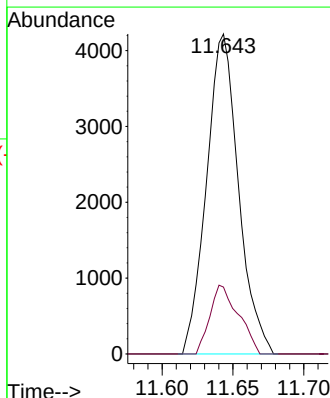
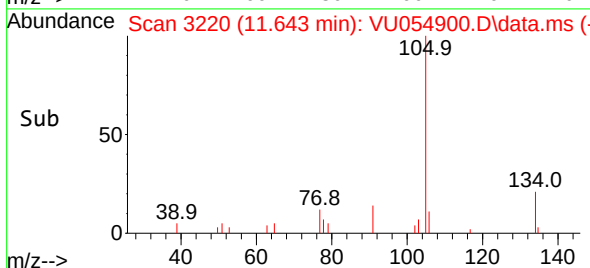
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

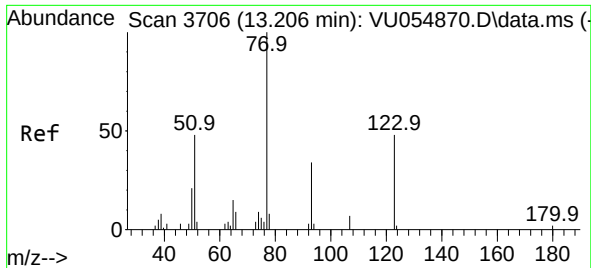


#79
sec-Butylbenzene
Concen: 0.201 ug/l
RT: 11.643 min Scan# 3220
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



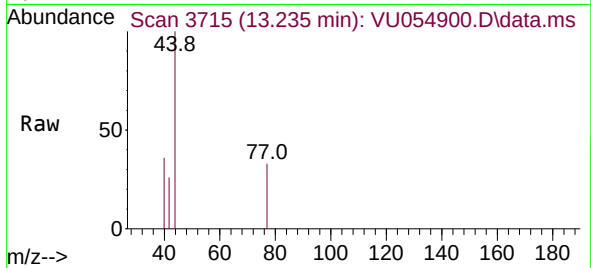
Tgt Ion:105 Resp: 6618
Ion Ratio Lower Upper
105 100
134 19.1 15.7 23.5





#80
Nitrobenzene
Concen: 0.675 ug/l
RT: 13.235 min Scan# 31
Delta R.T. 0.029 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

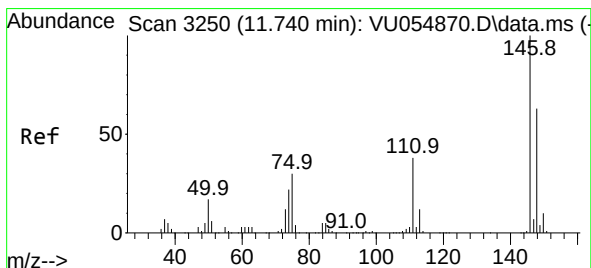
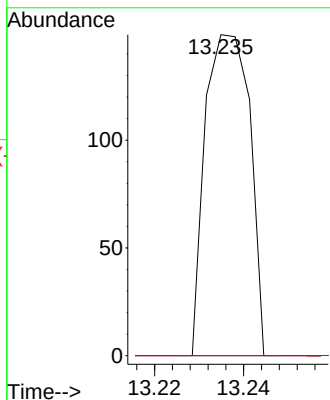
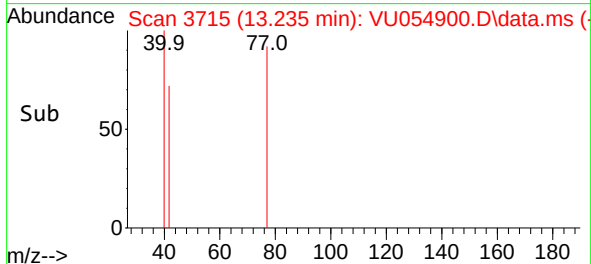
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



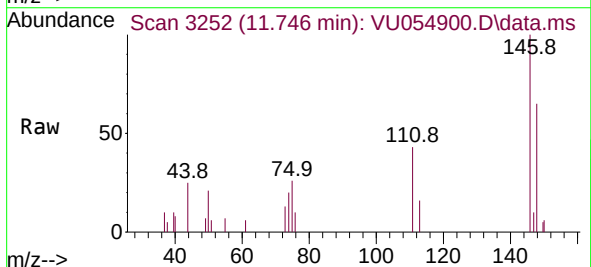
Tgt Ion: 77 Resp: 104
Ion Ratio Lower Upper
77 100
123 0.0 20.2 71.8
65 0.0 11.7 14.9

Manual Integrations
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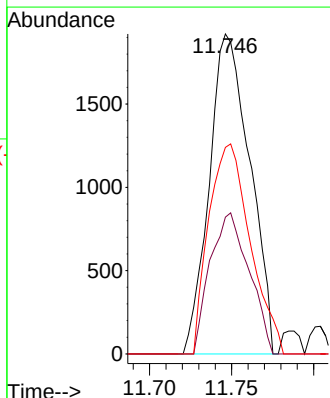
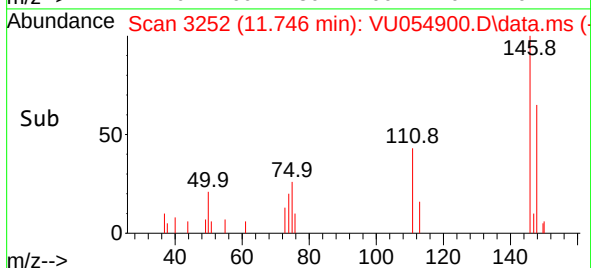
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

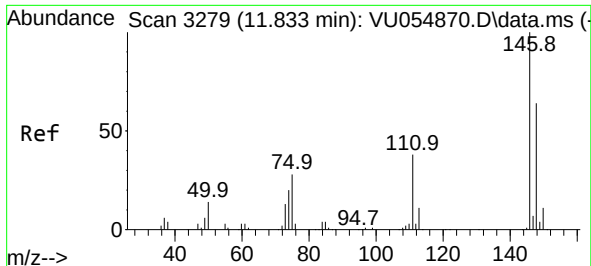


#82
1,3-Dichlorobenzene
Concen: 0.232 ug/l
RT: 11.746 min Scan# 3252
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



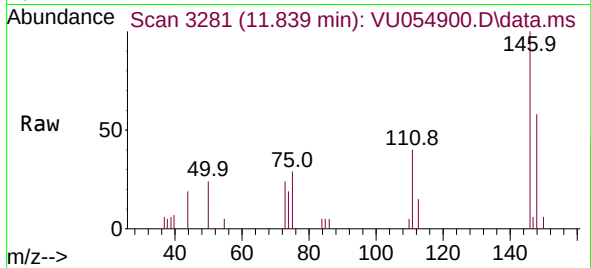
Tgt Ion:146 Resp: 3307
Ion Ratio Lower Upper
146 100
111 42.2 30.5 45.7
148 66.9 51.0 76.6





#83
1,4-Dichlorobenzene
Concen: 0.251 ug/l
RT: 11.839 min Scan# 31
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

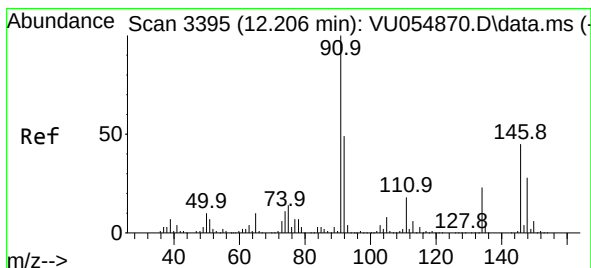
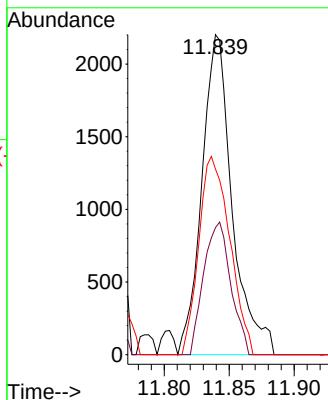
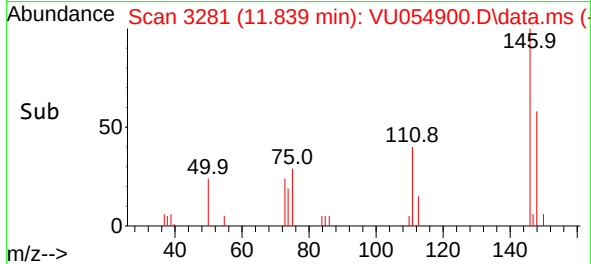
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



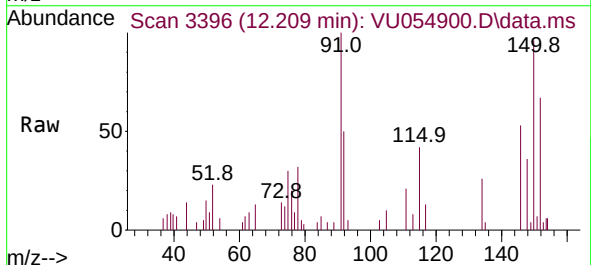
Tgt Ion:146 Resp: 3572
Ion Ratio Lower Upper
146 100
111 37.0 29.5 44.3
148 63.2 51.2 76.8

Manual Integrations
APPROVED

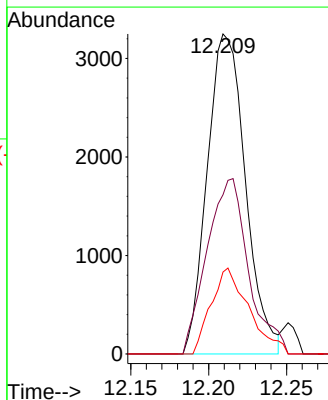
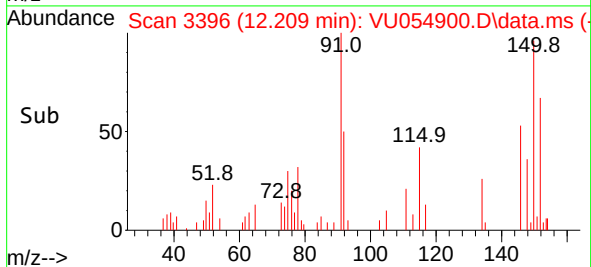
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023

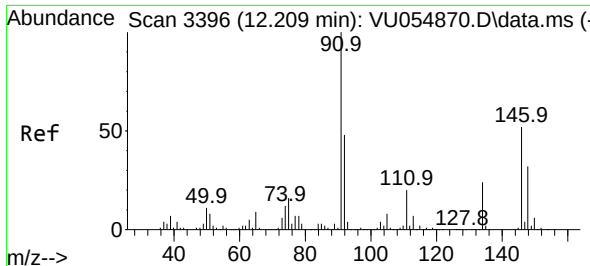


#84
n-Butylbenzene
Concen: 0.237 ug/l
RT: 12.209 min Scan# 3396
Delta R.T. 0.003 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42



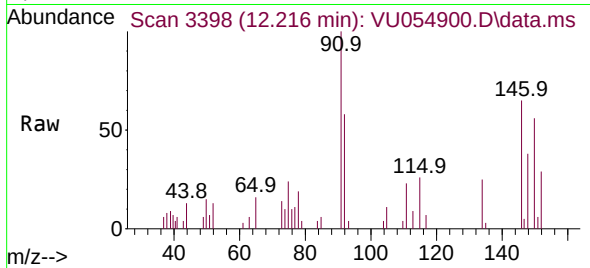
Tgt Ion: 91 Resp: 5548
Ion Ratio Lower Upper
91 100
92 59.4 39.8 59.8
134 26.5 20.2 30.4





#85
1,2-Dichlorobenzene
Concen: 0.244 ug/l
RT: 12.216 min Scan# 3396
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

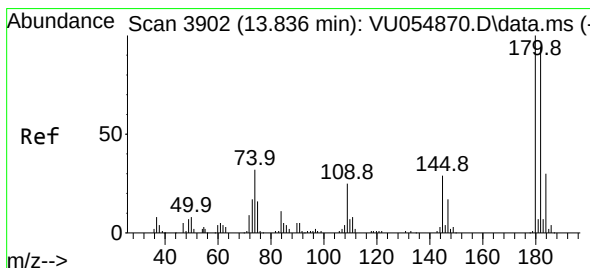
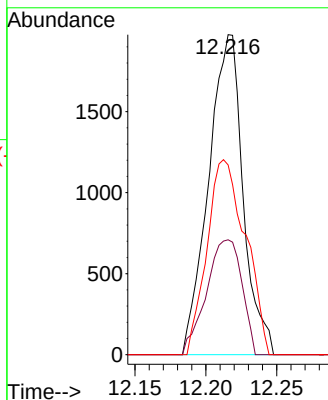
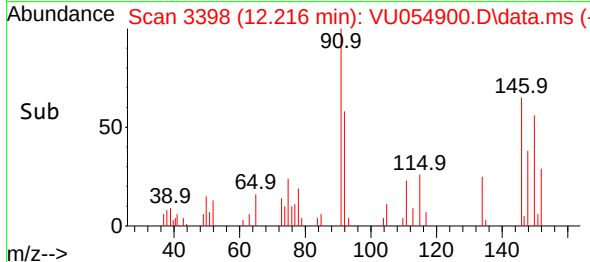
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion:146 Resp: 3349
Ion Ratio Lower Upper
146 100
111 36.9 19.8 59.4
148 68.1 31.8 95.3

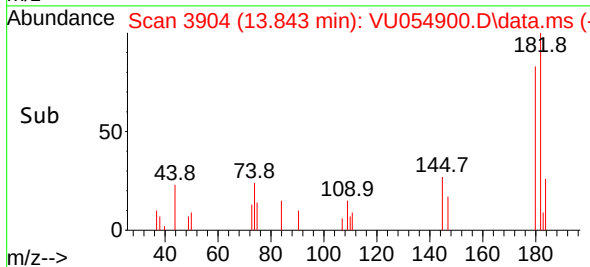
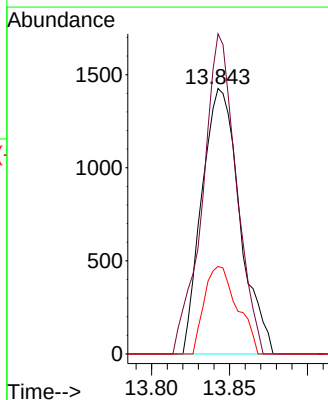
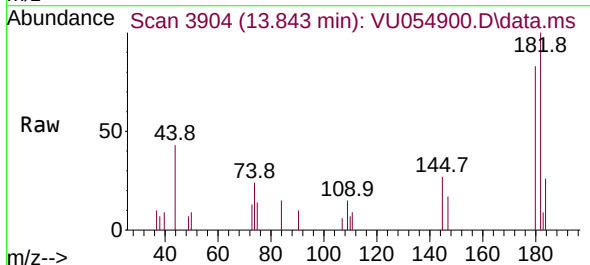
Manual Integrations
APPROVED

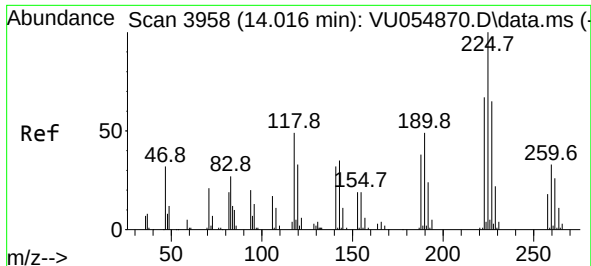
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#87
1,2,4-Trichlorobenzene
Concen: 0.276 ug/l
RT: 13.843 min Scan# 3904
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

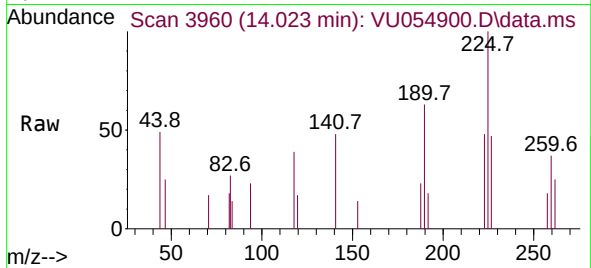
Tgt Ion:180 Resp: 2410
Ion Ratio Lower Upper
180 100
182 106.8 77.0 115.6
145 28.4 23.4 35.0





#88
Hexachlorobutadiene
Concen: 0.263 ug/l
RT: 14.023 min Scan# 3958
Delta R.T. 0.006 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

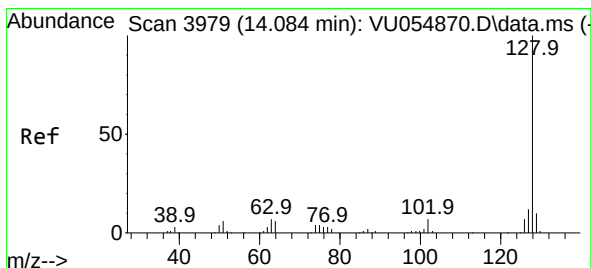
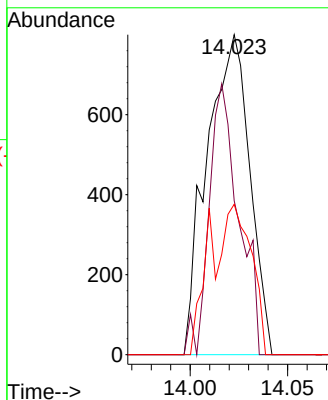
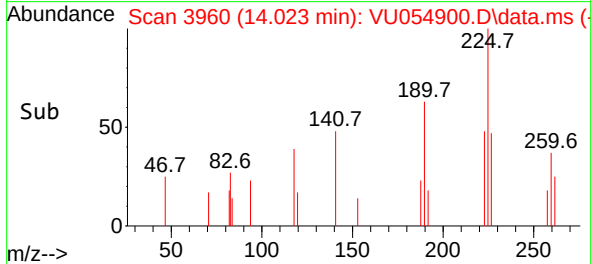
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2023



Tgt Ion:225 Resp: 122
Ion Ratio Lower Upper
225 100
223 58.7 50.6 76.0
227 31.7 50.7 76.1

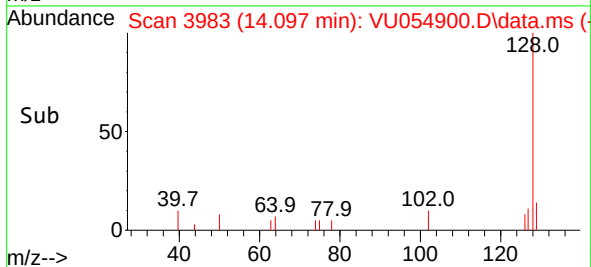
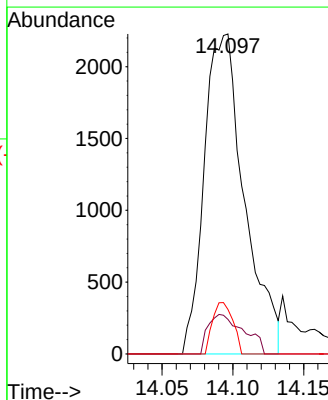
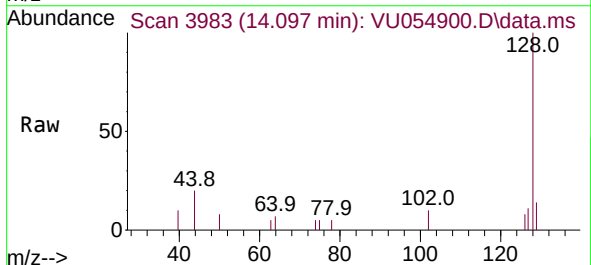
Manual Integrations
APPROVED

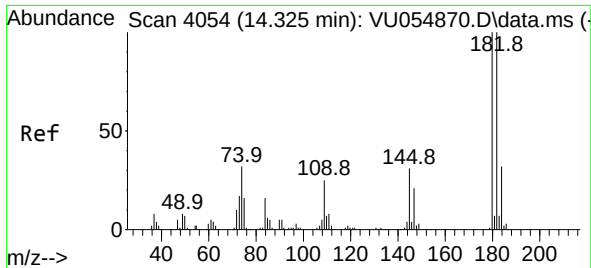
Reviewed By :John Carlone 07/28/2023
Supervised By :Mahesh Dadoda 07/31/2023



#89
Naphthalene
Concen: 0.325 ug/l
RT: 14.097 min Scan# 3983
Delta R.T. 0.013 min
Lab File: VU054900.D
Acq: 27 Jul 2023 17:42

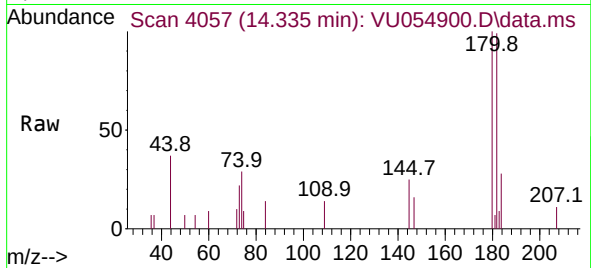
Tgt Ion:128 Resp: 4388
Ion Ratio Lower Upper
128 100
127 11.0 10.6 15.8
129 8.2 8.7 13.1





#90
 1,2,3-Trichlorobenzene
 Concen: 0.352 ug/l
 RT: 14.335 min Scan# 4057
 Delta R.T. 0.010 min
 Lab File: VU054900.D
 Acq: 27 Jul 2023 17:42

Instrument : MSVOA_U
 ClientSampleId : MDL-WATER-03-QT3-2023



Tgt Ion:180 Resp: 2725
 Ion Ratio Lower Upper
 180 100
 182 102.4 76.0 114.0
 145 15.7 24.3 36.5

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/28/2023
 Supervised By :Mahesh Dadoda 07/31/2023

