

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101923\
 Data File : VU055814.D
 Acq On : 19 Oct 2023 17:16
 Operator : MD/SY
 Sample : 04699-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/20/2023
 Supervised By : Mahesh Dadoda 10/25/2023

Quant Time: Oct 20 02:01:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U101823DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Oct 20 02:00:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.113	96	93103	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	35852	0.976	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	33527	0.985	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	27148	0.751	ug/l	93
3) Chloromethane	1.518	50	26478	0.857	ug/l	100
4) Vinyl Chloride	1.602	62	27040	0.854	ug/l	98
5) Bromomethane	1.856	94	16466	0.945	ug/l	100
6) Chloroethane	1.930	64	15364	1.002	ug/l	100
7) Trichlorofluoromethane	2.136	101	35204	0.843	ug/l	95
8) 1,1,2-Trichloro-1,2,2-...	2.579	101	21423	0.770	ug/l	95
9) 1,1-Dichloroethene	2.576	96	19299	0.743	ug/l	98
10) Iodomethane	2.721	142	27940	0.722	ug/l	98
11) Allyl Chloride	2.920	41	24259	0.719	ug/l	87
12) Acrylonitrile	3.332	53	7852	1.609	ug/l	# 86
13) Acetone	2.640	43	21541	2.069	ug/l	98
14) Carbon Disulfide	2.791	76	64457	0.760	ug/l	100
15) Methylene Chloride	3.042	84	24804	0.810	ug/l	94
16) trans-1,2-Dichloroethene	3.351	96	20139	0.732	ug/l	99
17) 1,1-Dichloroethane	3.865	63	39329	0.768	ug/l	98
18) 2-Butanone	4.734	43	25109	2.239	ug/l	97
19) Cyclohexane	5.386	56	32186m	0.737	ug/l	
20) Methylcyclohexane	6.759	83	32315	0.712	ug/l	100
21) 2,2-Dichloropropane	4.663	77	30879	0.716	ug/l	95
22) cis-1,2-Dichloroethene	4.666	96	23389	0.797	ug/l	97
23) Diethyl Ether	2.373	59	14600	0.940	ug/l	96
24) tert-Butyl Alcohol	3.184	59	15308m	9.614	ug/l	
25) Methyl tert-Butyl Ether	3.361	73	42623	0.763	ug/l	97
26) Bromochloromethane	4.975	128	9259	0.745	ug/l	94
27) Chloroform	5.087	83	40566	0.772	ug/l	92
28) 1,1,1-Trichloroethane	5.312	97	36540	0.776	ug/l	95
29) 1,1-Dichloropropene	5.524	75	28734	0.771	ug/l	97
30) Carbon Tetrachloride	5.521	117	30803	0.750	ug/l	92
31) Isopropyl Ether	3.988	45	52587	0.765	ug/l	99
32) Ethyl-t-butyl ether	4.496	59	50568	0.762	ug/l	98
33) Tert-Amyl methyl ether	5.936	73	41672	0.733	ug/l	# 92
34) Propionitrile	4.814	54	6313	3.558	ug/l	# 5
35) Benzene	5.775	78	86008	0.761	ug/l	96
36) 1,2-Dichloroethane	5.795	62	25121	0.819	ug/l	99
37) Trichloroethene	6.541	130	22131	0.753	ug/l	99
38) 1,2-Dichloropropane	6.788	63	21679	0.735	ug/l	96
39) Methacrylonitrile	4.984	41	5268	0.796	ug/l	# 91
40) Methyl acrylate	4.875	55	6749	0.633	ug/l	# 77
41) Tetrahydrofuran	5.071	42	5837	1.557	ug/l	96
42) 1-Chlorobutane	5.457	56	37545	0.755	ug/l	100
43) Dibromomethane	6.917	93	11015	0.786	ug/l	92
44) Bromodichloromethane	7.106	83	28878	0.779	ug/l	88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.791	43	51818	3.574	ug/l	99
46) t-1,4-Dichloro-2-butene	10.839	75	4273m	0.741	ug/l	
47) Methyl methacrylate	6.965	69	16600	1.435	ug/l	98
48) Ethyl methacrylate	8.335	69	15941	0.726	ug/l	92
49) Toluene	7.968	92	50280	0.752	ug/l	94
50) t-1,3-Dichloropropene	8.212	75	22998	0.701	ug/l	94
51) cis-1,3-Dichloropropene	7.605	75	29726	0.741	ug/l	94
52) 1,1,2-Trichloroethane	8.396	97	14995	0.749	ug/l	92
53) 1,3-Dichloropropane	8.573	76	26237	0.767	ug/l	99
54) 2-Hexanone	8.692	43	35163	2.165	ug/l	97
55) Dibromochloromethane	8.807	129	17789	0.736	ug/l	99
56) 1,2-Dibromoethane	8.923	107	13948	0.762	ug/l	99
58) Tetrachloroethene	8.550	164	25116	0.822	ug/l	96
59) Chlorobenzene	9.447	112	56851	0.770	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.531	131	19098	0.726	ug/l	98
61) Pentachloroethane	11.421	117	12662	0.711	ug/l	92
62) Hexachloroethane	12.470	117	11368	0.603	ug/l	92
63) Ethyl Benzene	9.569	91	90504	0.722	ug/l	99
64) m/p-Xylenes	9.692	106	66942	1.390	ug/l	98
65) o-Xylene	10.100	106	34284	0.725	ug/l	100
66) Styrene	10.116	104	51790	0.701	ug/l	95
67) Bromoform	10.290	173	9155	0.705	ug/l	99
69) Isopropylbenzene	10.482	105	85964	0.707	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.778	83	17370	0.742	ug/l	99
71) 1,2,3-Trichloropropane	10.823	75	12418m	0.640	ug/l	
72) Bromobenzene	10.781	156	22670	0.781	ug/l	99
73) n-propylbenzene	10.907	120	20763	0.662	ug/l	95
74) 2-Chlorotoluene	10.984	126	21530	0.738	ug/l	99
75) 1,3,5-Trimethylbenzene	11.084	105	72723	0.699	ug/l	97
76) 4-Chlorotoluene	11.097	126	21163	0.712	ug/l	100
77) tert-Butylbenzene	11.415	119	64401	0.675	ug/l	97
78) 1,2,4-Trimethylbenzene	11.466	105	69008	0.670	ug/l	97
79) sec-Butylbenzene	11.640	105	76080	0.632	ug/l	99
80) Nitrobenzene	13.235	77	1635m	2.640	ug/l	
81) p-Isopropyltoluene	11.791	119	60424	0.623	ug/l	98
82) 1,3-Dichlorobenzene	11.743	146	43074	0.727	ug/l	98
83) 1,4-Dichlorobenzene	11.836	146	42445	0.740	ug/l	99
84) n-Butylbenzene	12.206	91	53136	0.643	ug/l	99
85) 1,2-Dichlorobenzene	12.212	146	39021	0.721	ug/l	96
86) 1,2-Dibromo-3-Chloropr...	13.000	75	2465	0.737	ug/l	89
87) 1,2,4-Trichlorobenzene	13.842	180	19743	0.672	ug/l	95
88) Hexachlorobutadiene	14.016	225	14213	0.696	ug/l	94
89) Naphthalene	14.093	128	29830	0.698	ug/l	100
90) 1,2,3-Trichlorobenzene	14.328	180	17480	0.693	ug/l	92

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



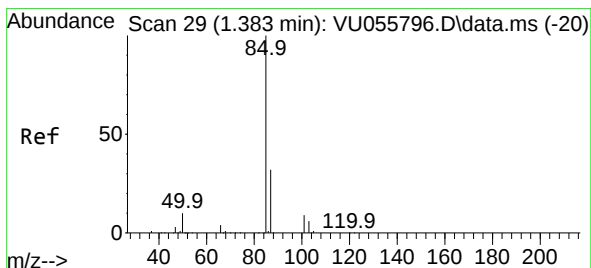
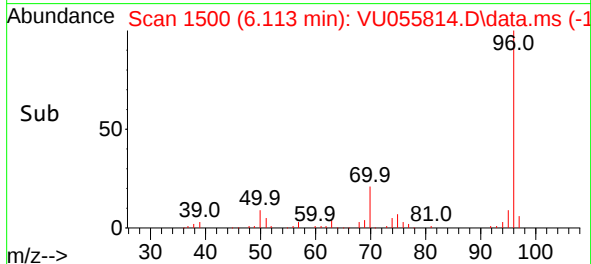
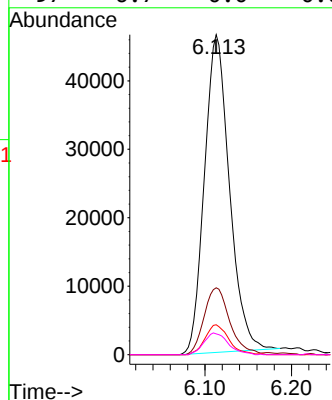
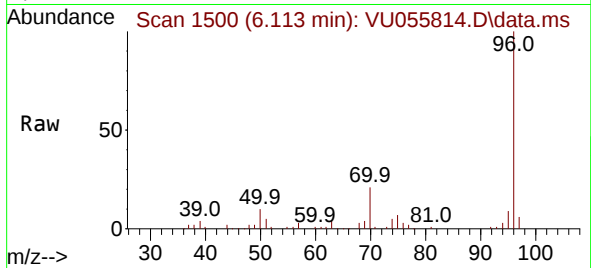
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Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion: 96 Resp: 9310
Ion Ratio Lower Upper
96 100
70 20.9 16.5 24.7
95 9.0 7.4 11.0
97 6.7 0.0 0.0#

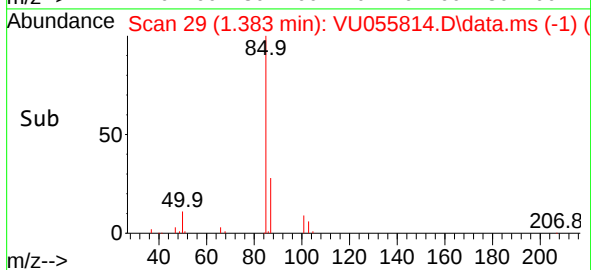
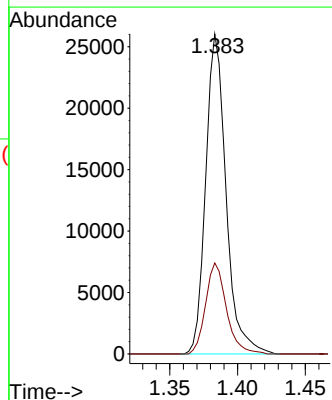
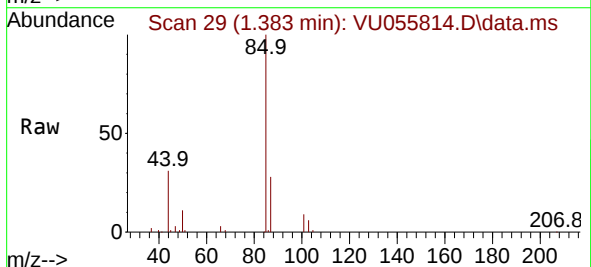
Manual Integrations
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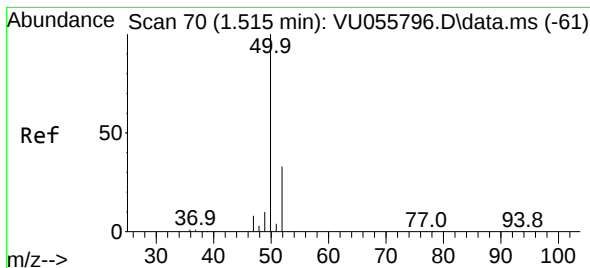
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#2
Dichlorodifluoromethane
Concen: 0.751 ug/l
RT: 1.383 min Scan# 29
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion: 85 Resp: 27148
Ion Ratio Lower Upper
85 100
87 28.5 16.2 48.6





#3

Chloromethane

Concen: 0.857 ug/l

RT: 1.518 min Scan# 70

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 50 Resp: 26478

Ion Ratio Lower Upper

50 100

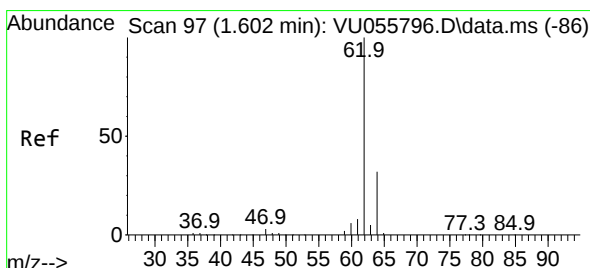
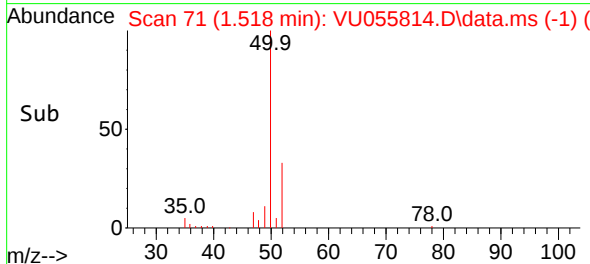
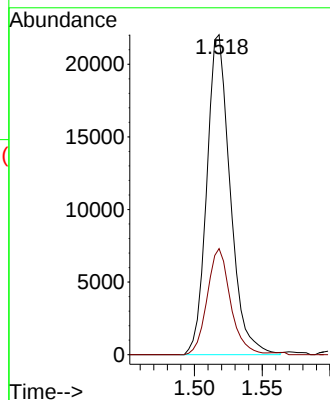
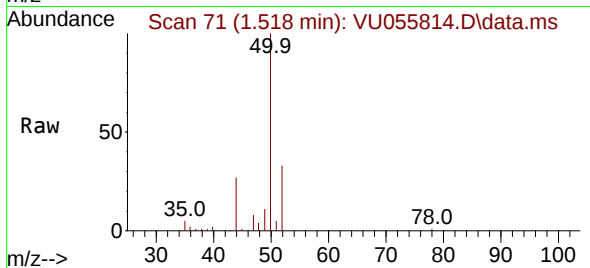
52 33.1 26.6 40.0

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 10/25/2023



#4

Vinyl Chloride

Concen: 0.854 ug/l

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU055814.D

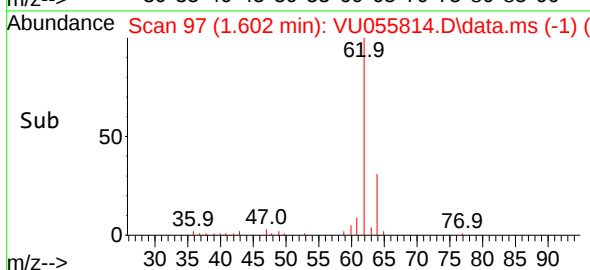
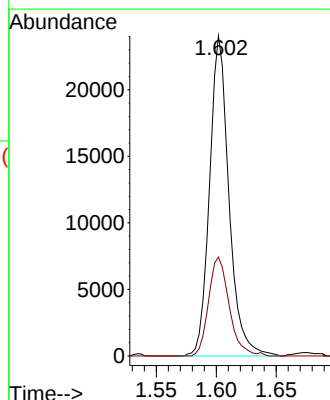
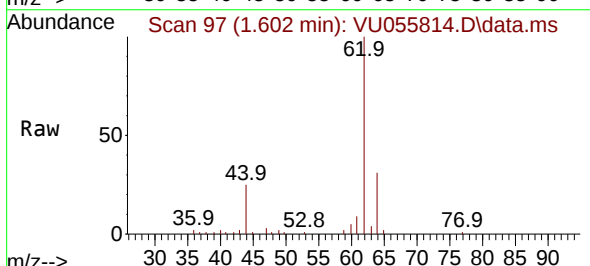
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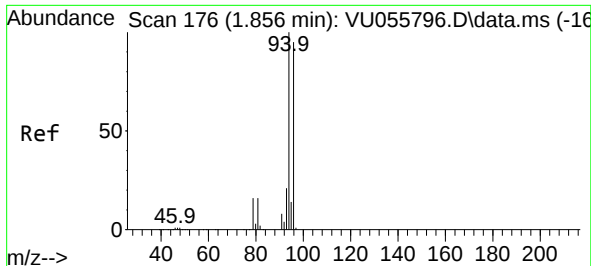
Tgt Ion: 62 Resp: 27040

Ion Ratio Lower Upper

62 100

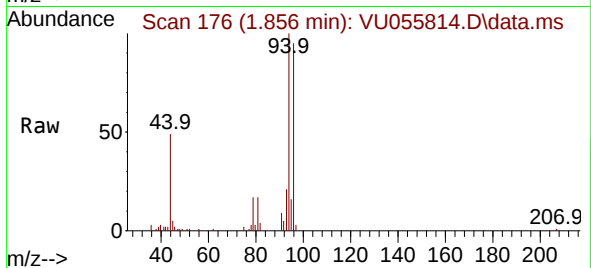
64 30.9 25.4 38.2





#5
Bromomethane
Concen: 0.945 ug/l
RT: 1.856 min Scan# 176
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

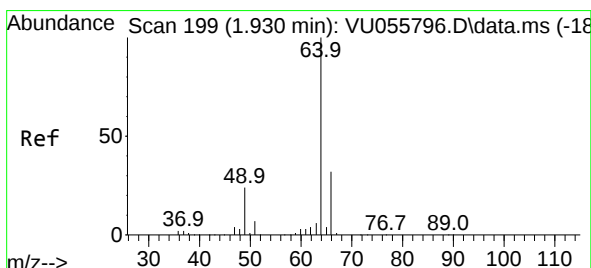
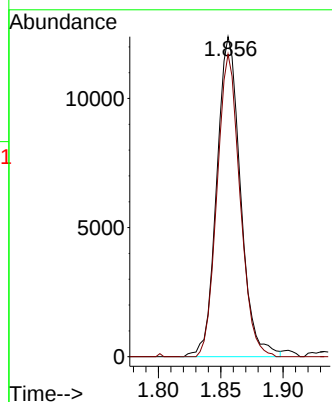
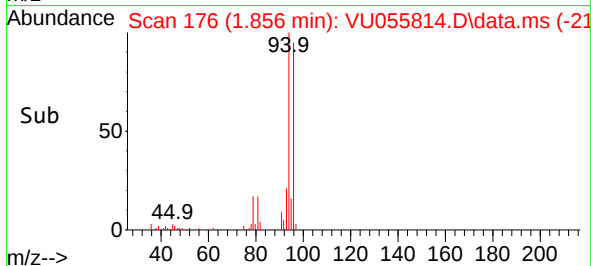
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 94 Resp: 16460
Ion Ratio Lower Upper
94 100
96 94.5 75.4 113.2

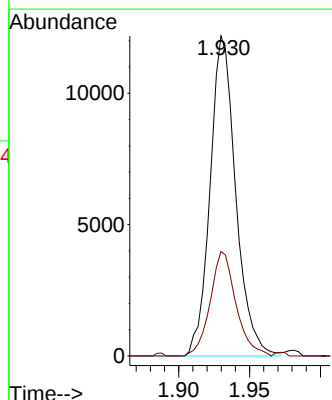
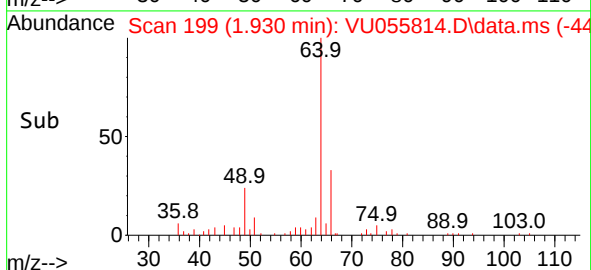
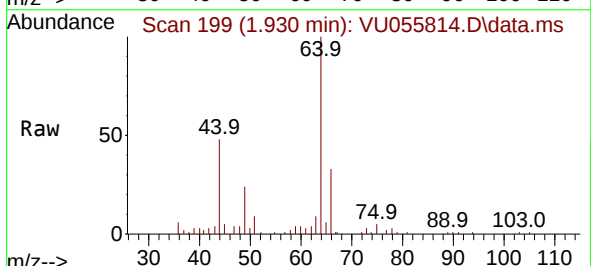
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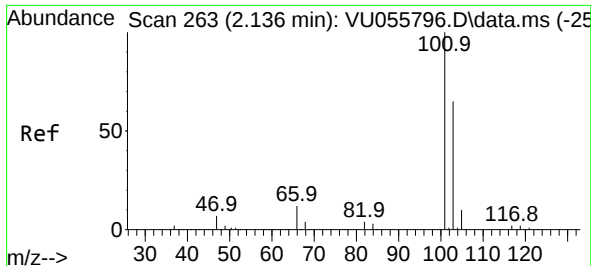
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#6
Chloroethane
Concen: 1.002 ug/l
RT: 1.930 min Scan# 199
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

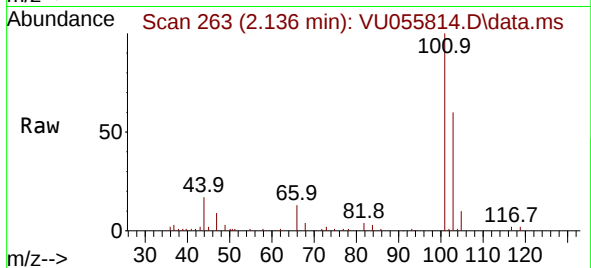
Tgt Ion: 64 Resp: 15364
Ion Ratio Lower Upper
64 100
66 32.7 26.0 39.0





#7
Trichlorofluoromethane
Concen: 0.843 ug/l
RT: 2.136 min Scan# 210
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

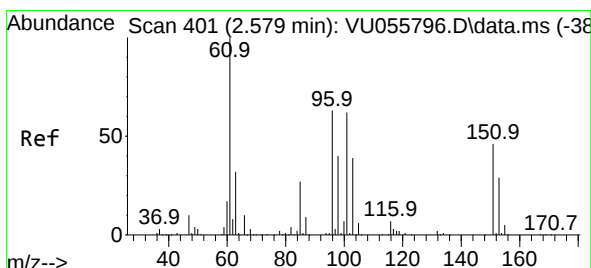
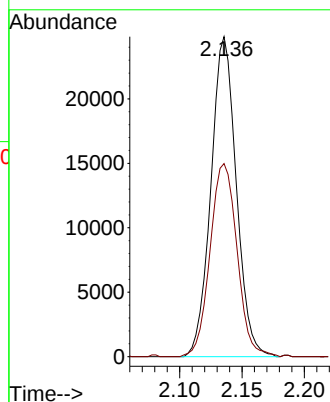
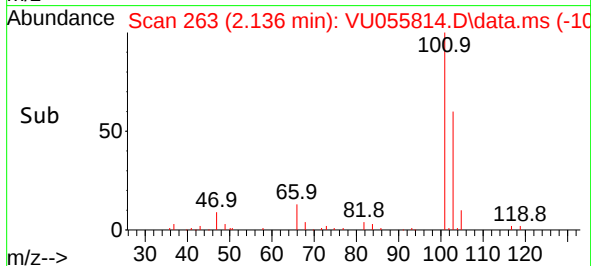
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ClientSampleId :
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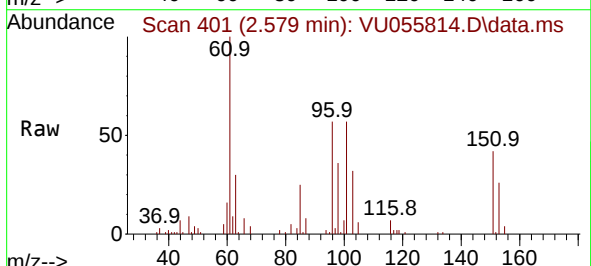
Tgt Ion:101 Resp: 35204
Ion Ratio Lower Upper
101 100
103 60.4 51.4 77.0

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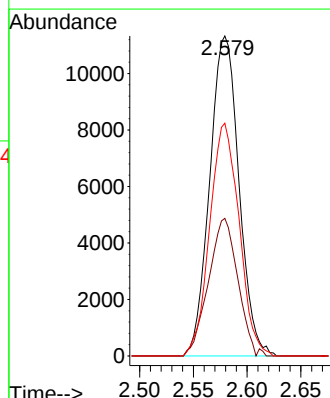
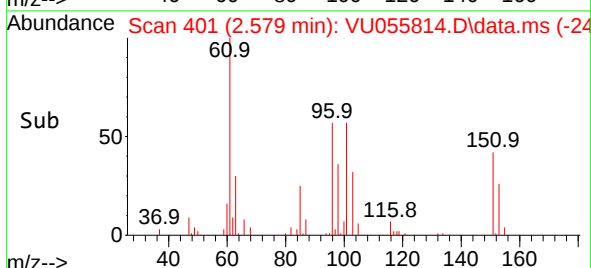
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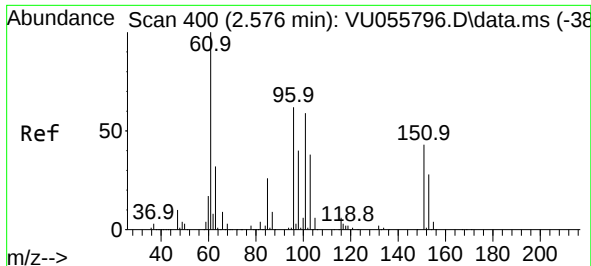


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.770 ug/l
RT: 2.579 min Scan# 401
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



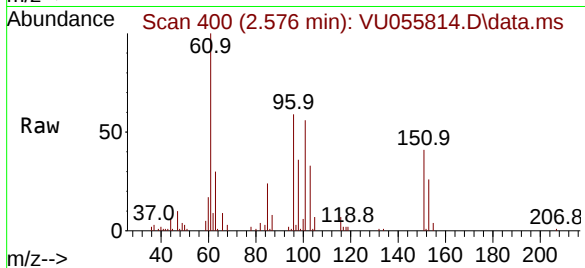
Tgt Ion:101 Resp: 21423
Ion Ratio Lower Upper
101 100
85 43.0 35.4 53.0
151 73.1 54.0 81.0





#9
1,1-Dichloroethene
Concen: 0.743 ug/l
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

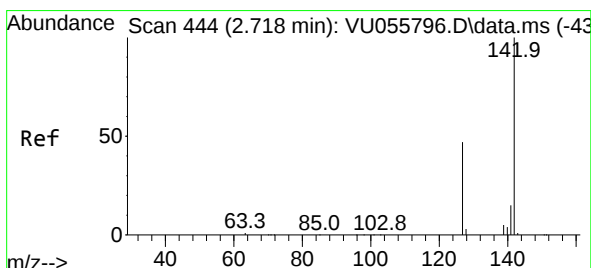
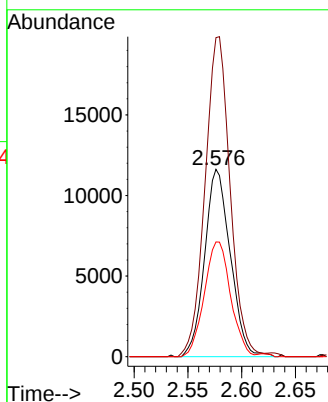
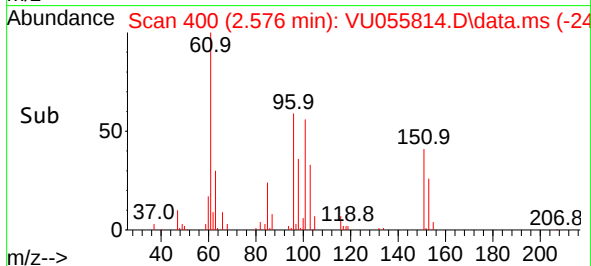
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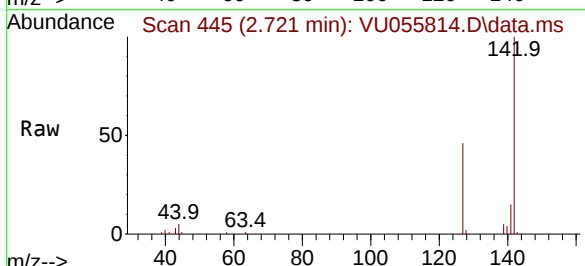
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Ion Ratio Lower Upper
96 100
61 170.3 0.0 521.4
98 61.3 0.0 125.8

Manual Integrations
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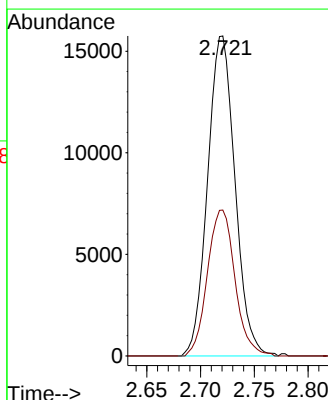
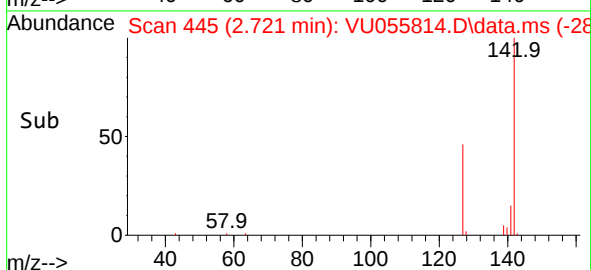
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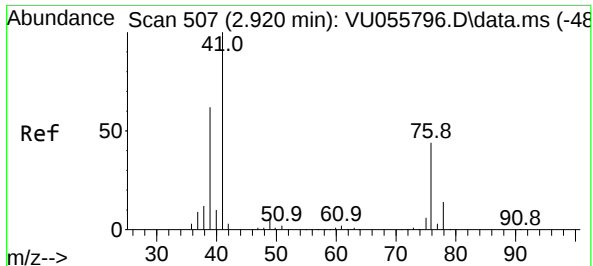


#10
Iodomethane
Concen: 0.722 ug/l
RT: 2.721 min Scan# 445
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



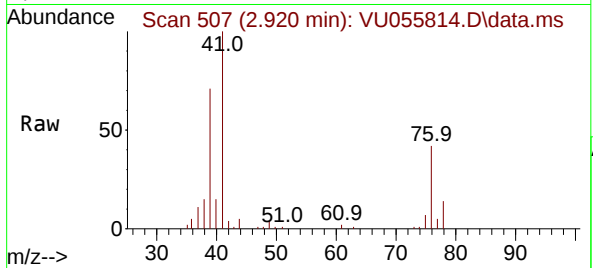
Tgt Ion:142 Resp: 27940
Ion Ratio Lower Upper
142 100
127 45.9 35.9 53.9





#11
 Allyl Chloride
 Concen: 0.719 ug/l
 RT: 2.920 min Scan# 507
 Delta R.T. 0.000 min
 Lab File: VU055814.D
 Acq: 19 Oct 2023 17:16

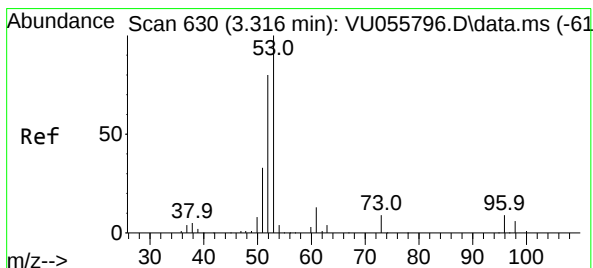
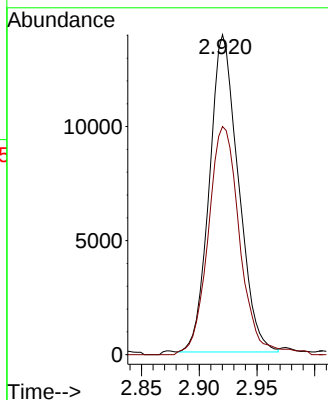
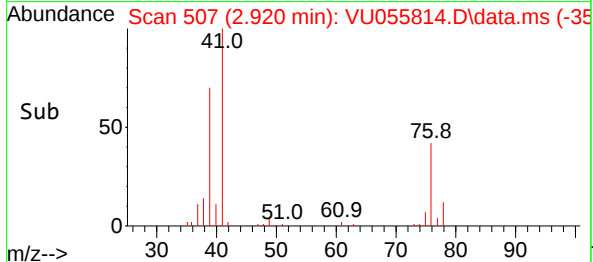
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023



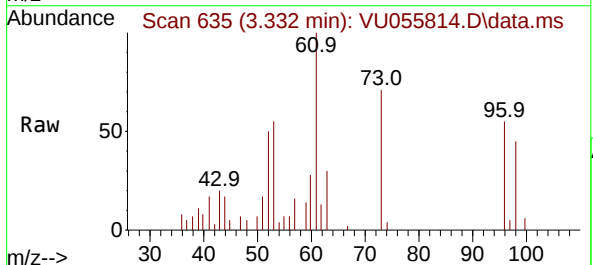
Tgt Ion: 41 Resp: 2425
 Ion Ratio Lower Upper
 41 100
 39 78.5 54.2 81.2

Manual Integrations
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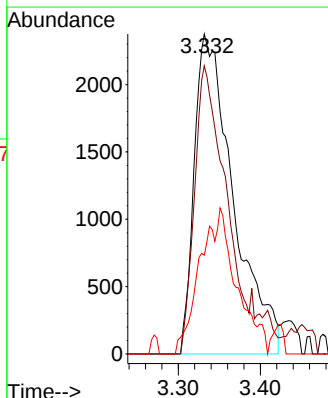
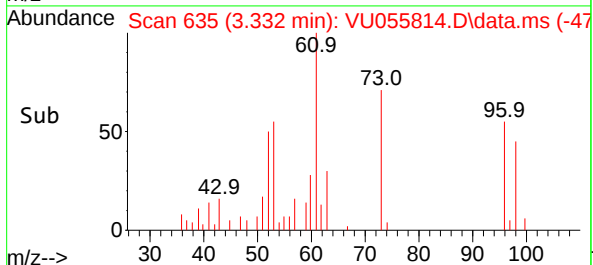
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023

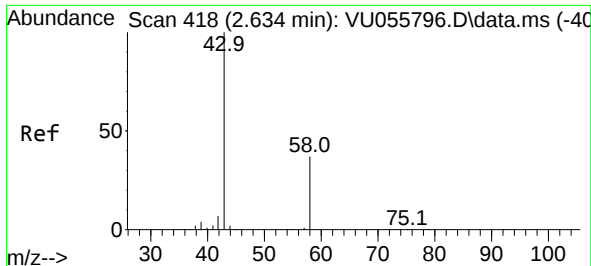


#12
 Acrylonitrile
 Concen: 1.609 ug/l
 RT: 3.332 min Scan# 635
 Delta R.T. 0.016 min
 Lab File: VU055814.D
 Acq: 19 Oct 2023 17:16



Tgt Ion: 53 Resp: 7852
 Ion Ratio Lower Upper
 53 100
 52 71.5 62.9 94.3
 51 19.4 27.8 41.6





#13

Acetone

Concen: 2.069 ug/l

RT: 2.640 min Scan# 418

Delta R.T. 0.006 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 43 Resp: 2154

Ion Ratio Lower Upper

43 100

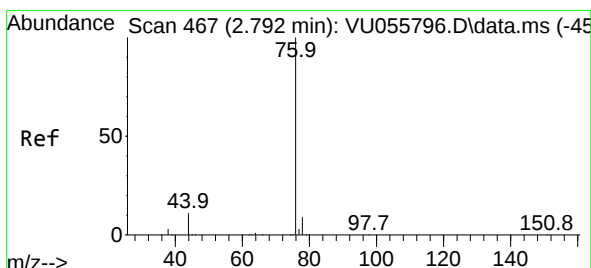
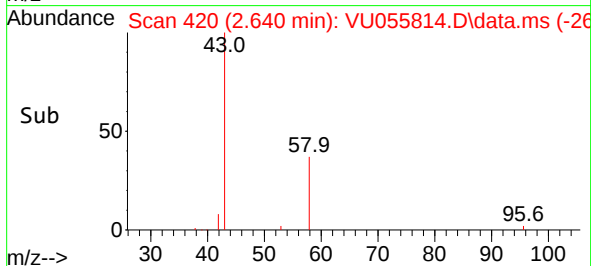
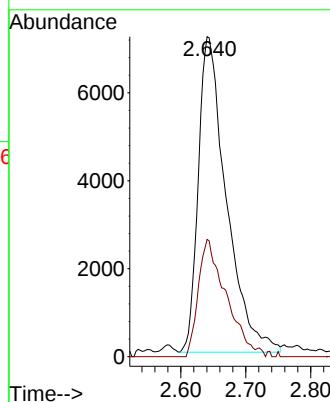
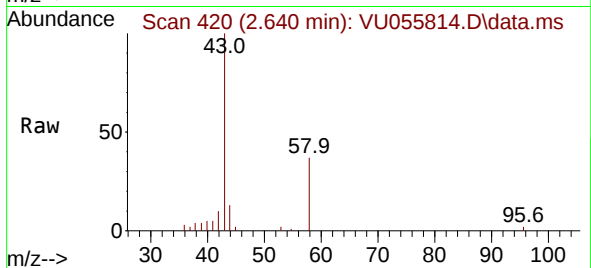
58 37.2 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#14

Carbon Disulfide

Concen: 0.760 ug/l

RT: 2.791 min Scan# 467

Delta R.T. -0.001 min

Lab File: VU055814.D

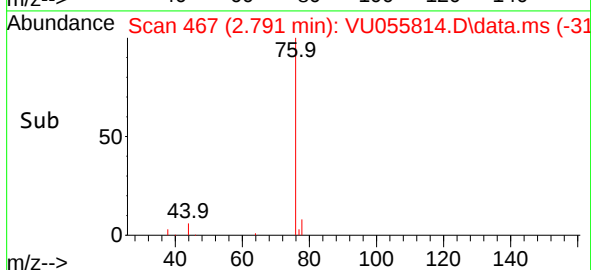
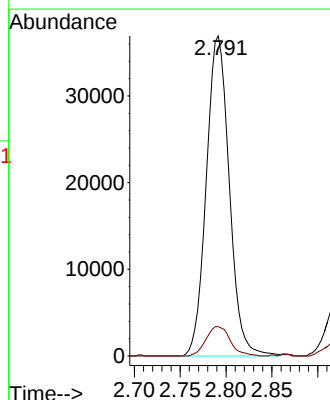
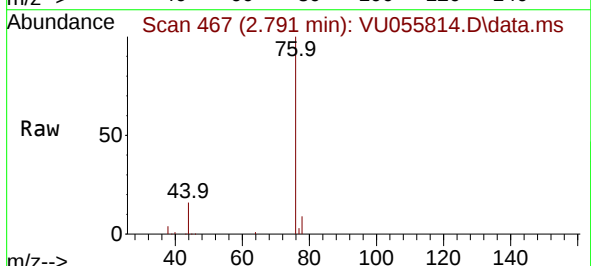
Acq: 19 Oct 2023 17:16

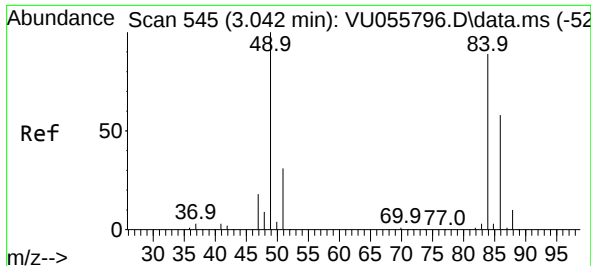
Tgt Ion: 76 Resp: 64457

Ion Ratio Lower Upper

76 100

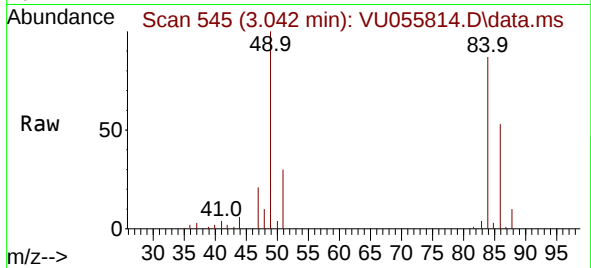
78 9.2 7.4 11.0





#15
Methylene Chloride
Concen: 0.810 ug/l
RT: 3.042 min Scan# 545
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

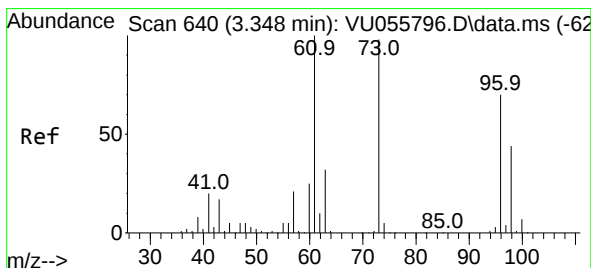
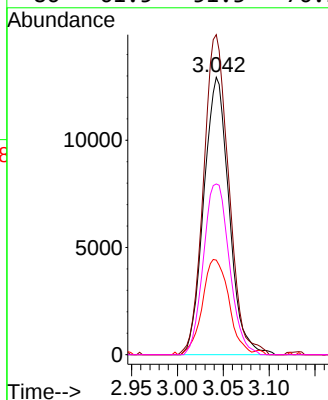
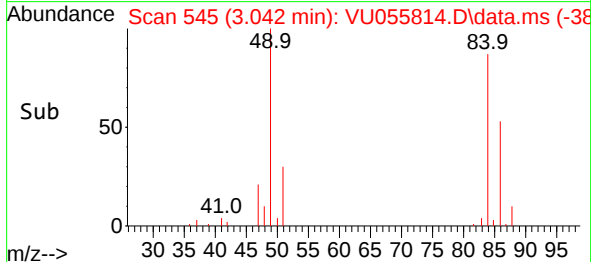
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 84 Resp: 24804
Ion Ratio Lower Upper
84 100
49 115.3 98.9 148.3
51 34.1 0.0 75.4
86 61.5 51.3 76.9

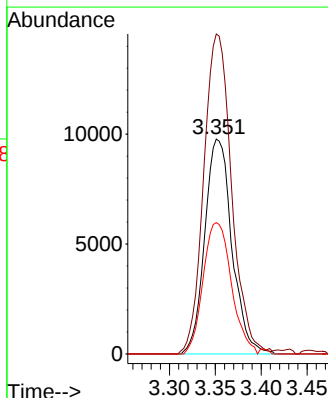
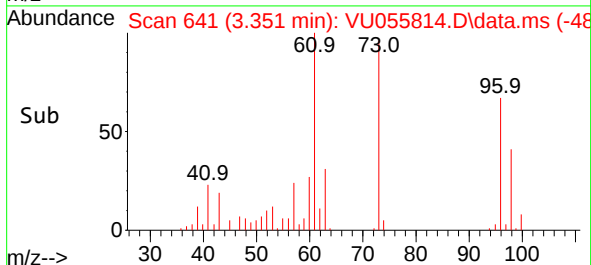
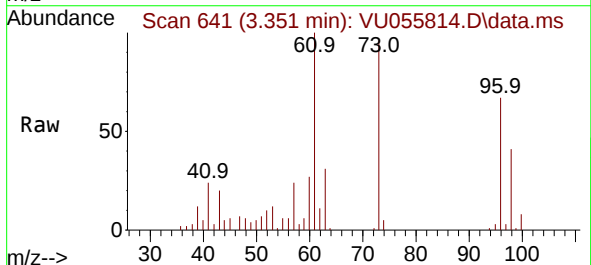
Manual Integrations
APPROVED

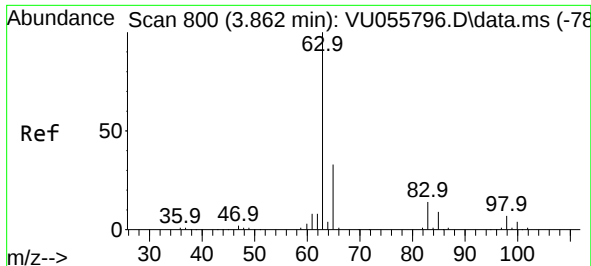
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#16
trans-1,2-Dichloroethene
Concen: 0.732 ug/l
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion: 96 Resp: 20139
Ion Ratio Lower Upper
96 100
61 148.9 117.5 176.3
98 61.2 48.3 72.5





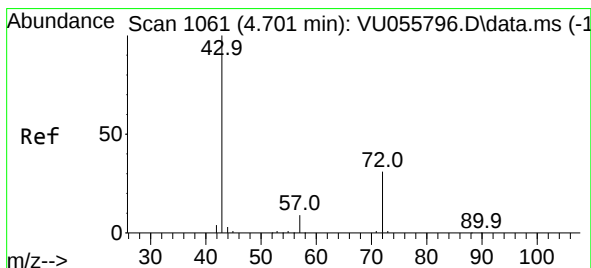
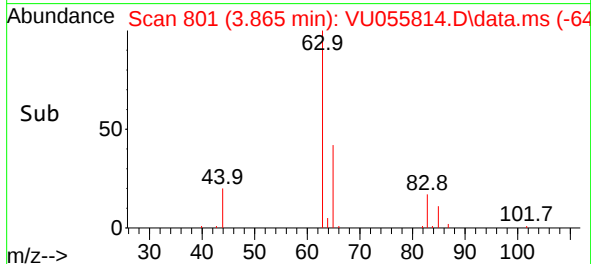
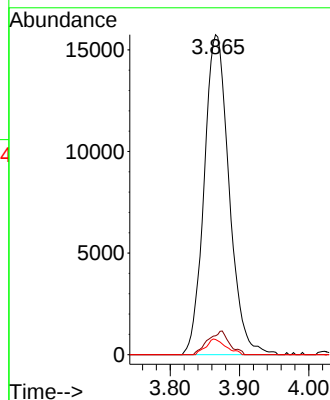
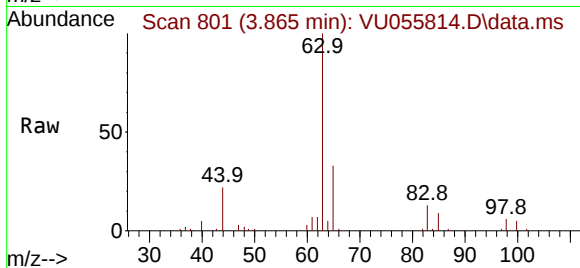
#17
1,1-Dichloroethane
Concen: 0.768 ug/l
RT: 3.865 min Scan# 800
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023

Tgt Ion: 63 Resp: 39329
Ion Ratio Lower Upper
63 100
98 5.9 3.4 10.1
100 4.8 2.2 6.6

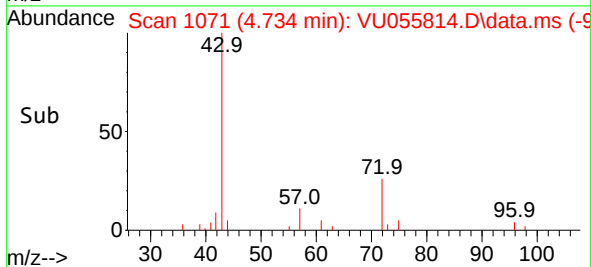
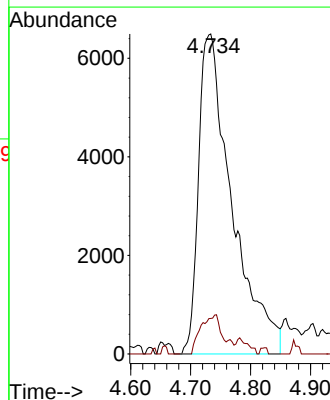
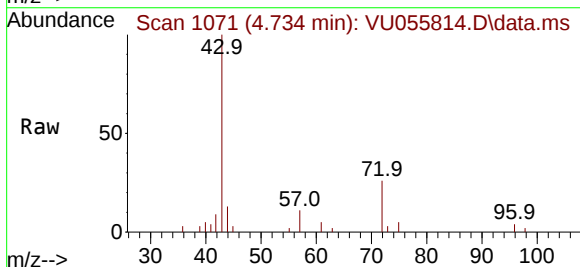
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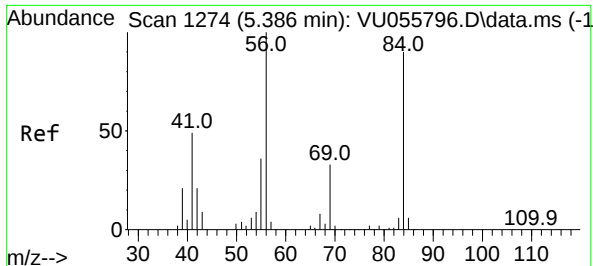
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#18
2-Butanone
Concen: 2.239 ug/l
RT: 4.734 min Scan# 1071
Delta R.T. 0.033 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

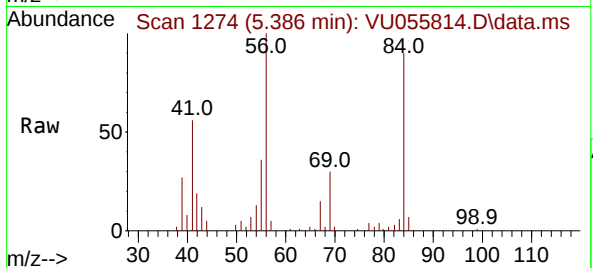
Tgt Ion: 43 Resp: 25109
Ion Ratio Lower Upper
43 100
57 11.1 0.0 19.6





#19
Cyclohexane
Concen: 0.737 ug/l m
RT: 5.386 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

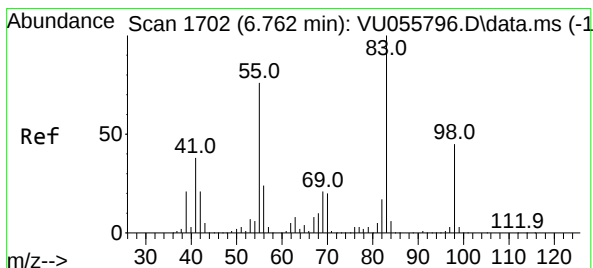
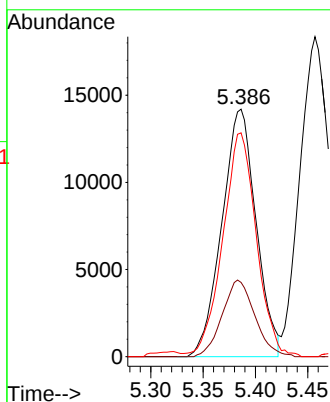
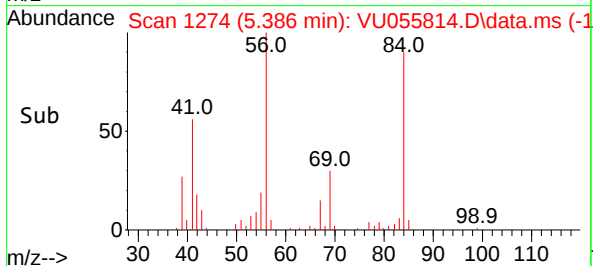
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 56 Resp: 32180
Ion Ratio Lower Upper
56 100
69 29.5 24.6 37.0
84 87.0 68.4 102.6

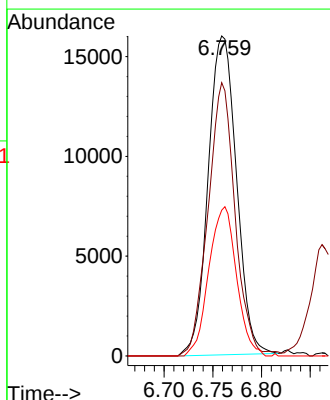
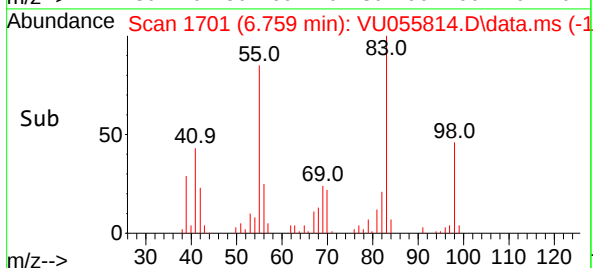
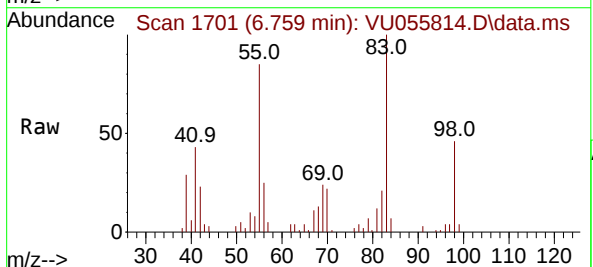
Manual Integrations
APPROVED

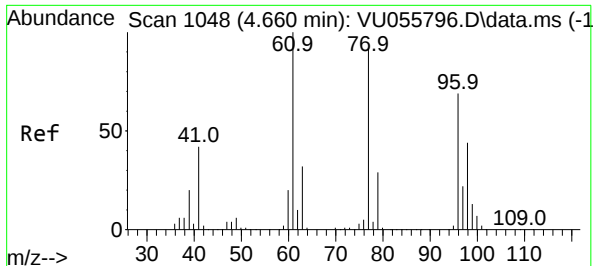
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#20
Methylcyclohexane
Concen: 0.712 ug/l
RT: 6.759 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion: 83 Resp: 32315
Ion Ratio Lower Upper
83 100
55 79.5 63.5 95.3
98 45.7 36.0 54.0





#21

2,2-Dichloropropane

Concen: 0.716 ug/l

RT: 4.663 min Scan# 1049

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 77 Resp: 30879

Ion Ratio Lower Upper

77 100

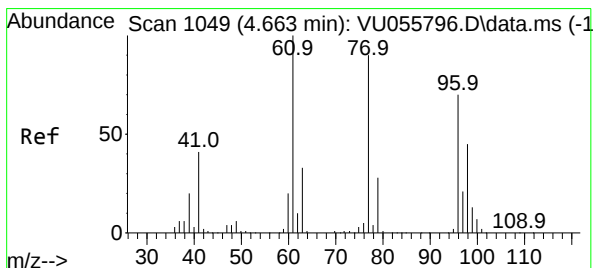
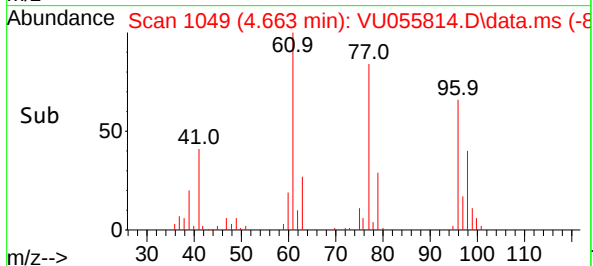
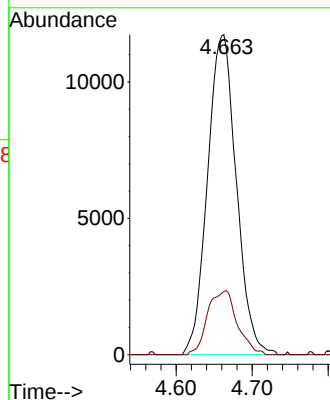
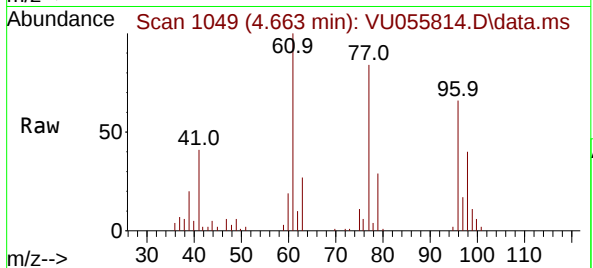
97 20.6 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#22

cis-1,2-Dichloroethene

Concen: 0.797 ug/l

RT: 4.666 min Scan# 1050

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

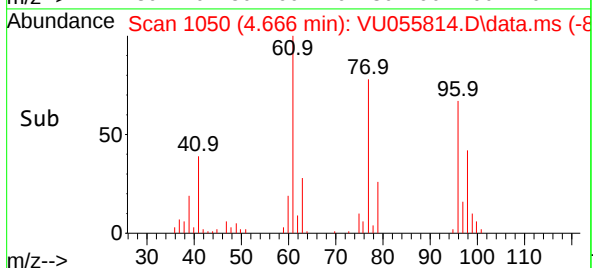
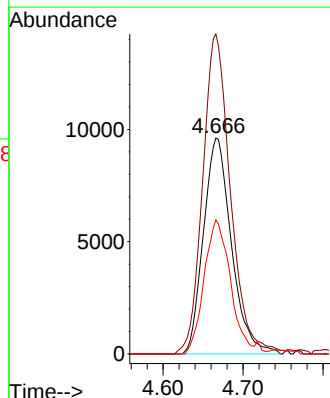
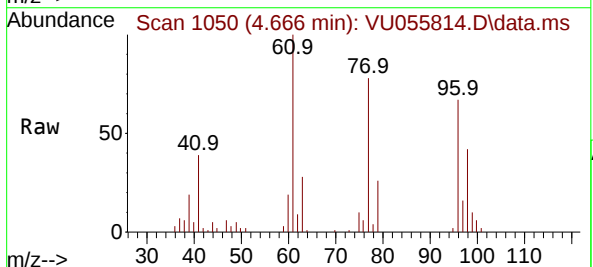
Tgt Ion: 96 Resp: 23389

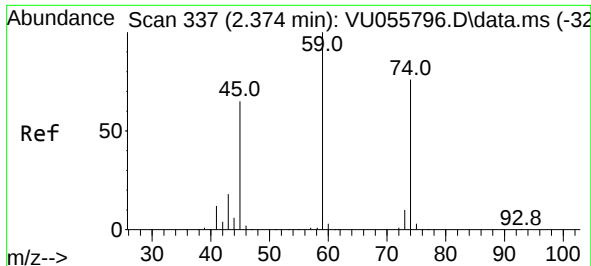
Ion Ratio Lower Upper

96 100

61 146.8 0.0 365.8

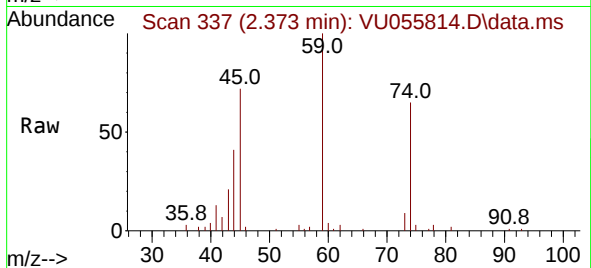
98 58.2 32.0 96.0





#23
Diethyl Ether
Concen: 0.940 ug/l
RT: 2.373 min Scan# 31
Delta R.T. -0.001 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

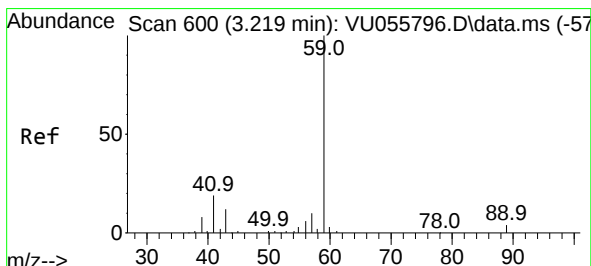
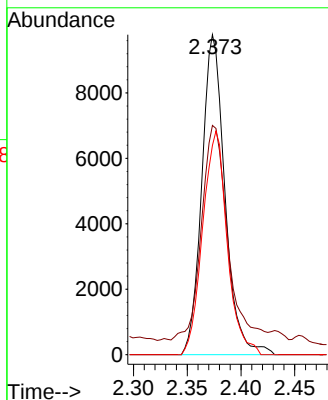
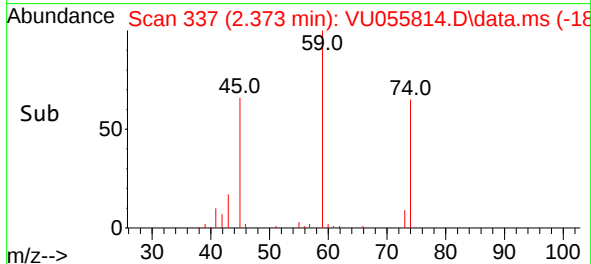
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 59 Resp: 14600
Ion Ratio Lower Upper
59 100
45 75.0 56.1 84.1
74 74.2 57.4 86.2

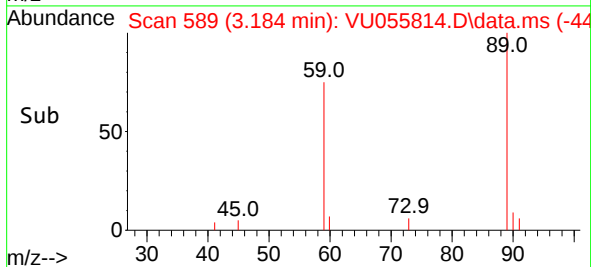
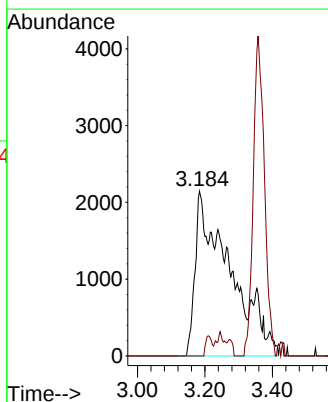
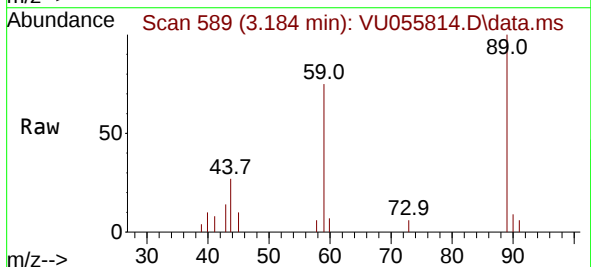
Manual Integrations
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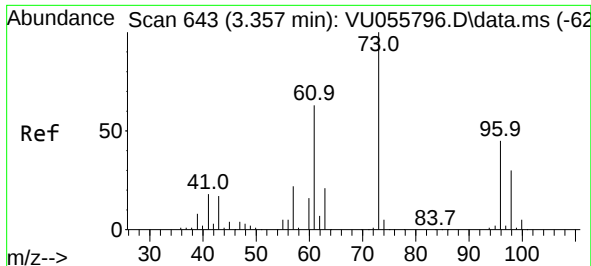
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#24
tert-Butyl Alcohol
Concen: 9.614 ug/l m
RT: 3.184 min Scan# 589
Delta R.T. -0.035 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

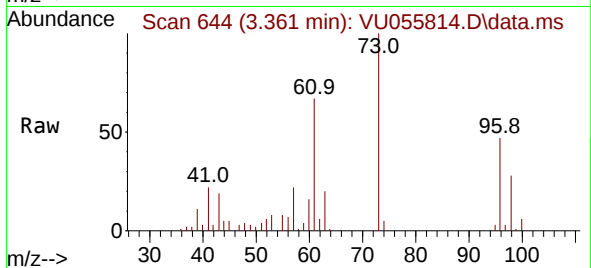
Tgt Ion: 59 Resp: 15308
Ion Ratio Lower Upper
59 100
57 2.3 105.6 158.4#





#25
Methyl tert-Butyl Ether
Concen: 0.763 ug/l
RT: 3.361 min Scan# 643
Delta R.T. 0.004 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

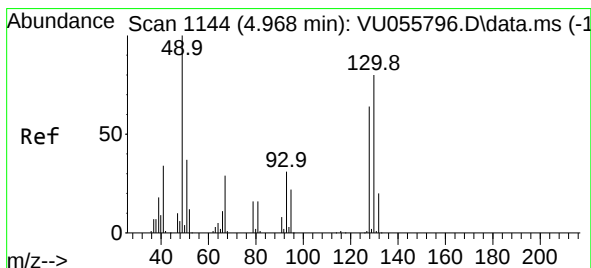
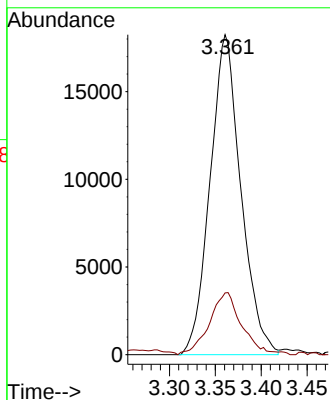
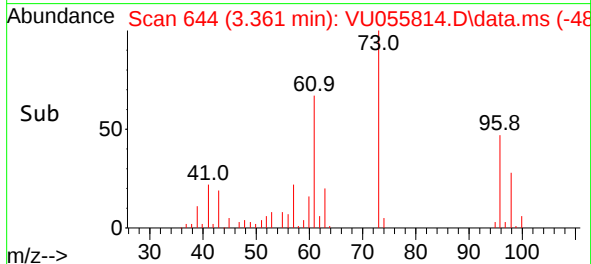
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 73 Resp: 4262
Ion Ratio Lower Upper
73 100
43 20.4 15.0 22.6

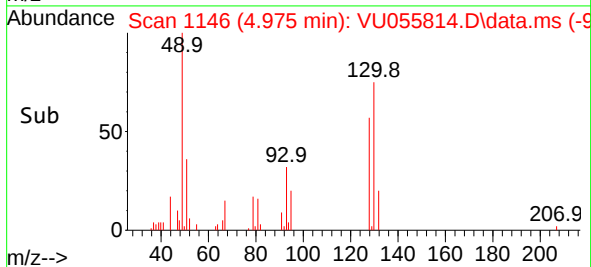
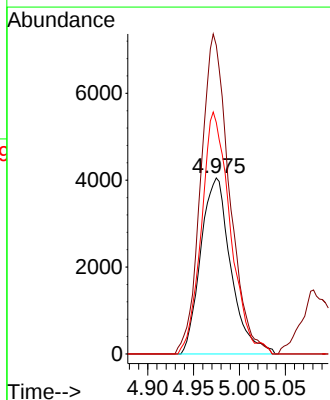
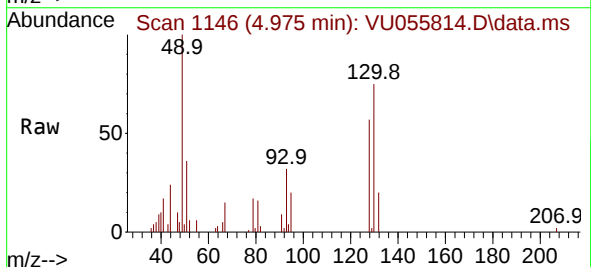
Manual Integrations
APPROVED

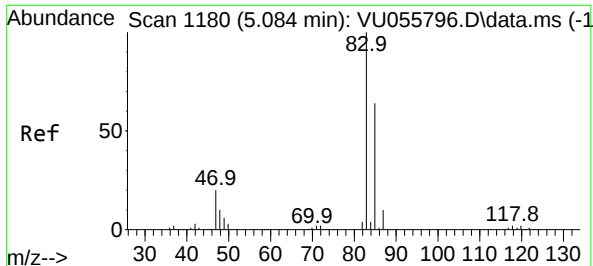
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#26
Bromochloromethane
Concen: 0.745 ug/l
RT: 4.975 min Scan# 1146
Delta R.T. 0.007 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion:128 Resp: 9259
Ion Ratio Lower Upper
128 100
49 172.7 0.0 324.6
130 132.1 103.0 154.4





#27

Chloroform

Concen: 0.772 ug/l

RT: 5.087 min Scan# 1180

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 83 Resp: 40560

Ion Ratio Lower Upper

83 100

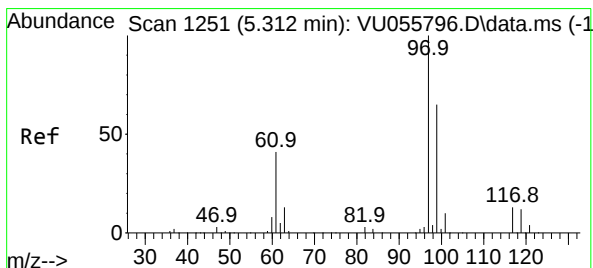
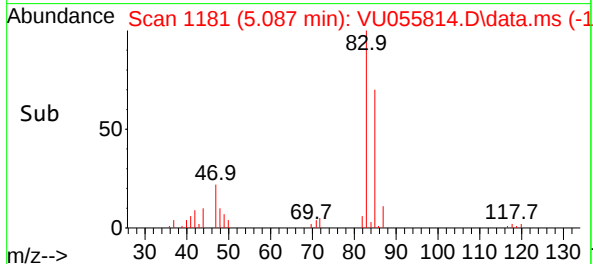
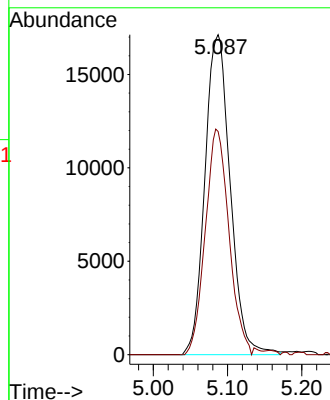
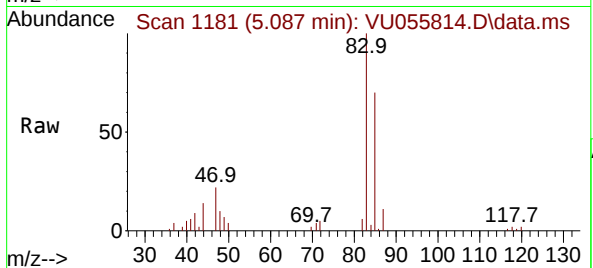
85 69.8 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#28

1,1,1-Trichloroethane

Concen: 0.776 ug/l

RT: 5.312 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

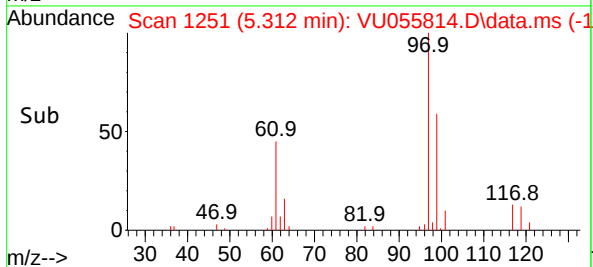
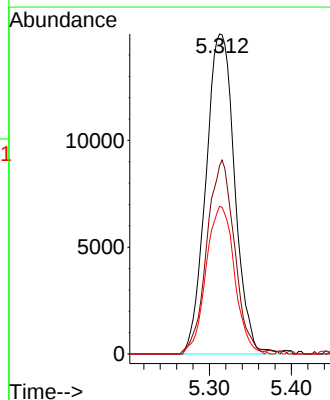
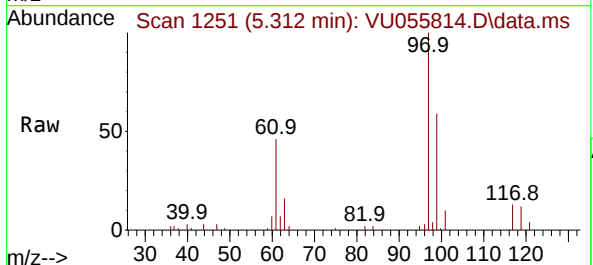
Tgt Ion: 97 Resp: 36540

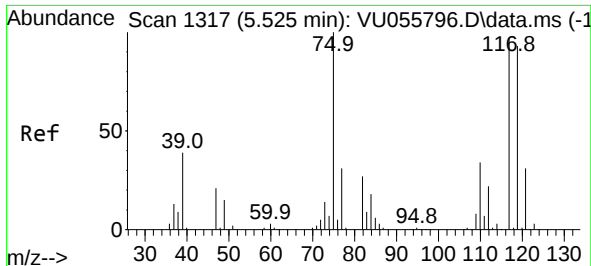
Ion Ratio Lower Upper

97 100

99 58.0 32.0 96.2

61 45.5 22.9 68.5





#29

1,1-Dichloropropene

Concen: 0.771 ug/l

RT: 5.524 min Scan# 11

Delta R.T. -0.001 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 75 Resp: 28734

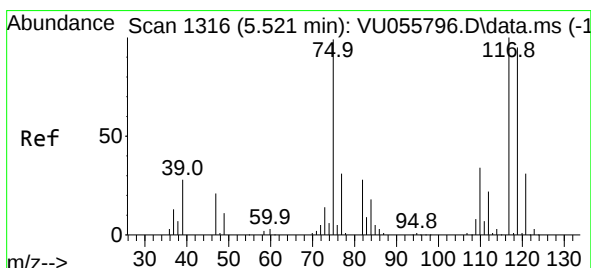
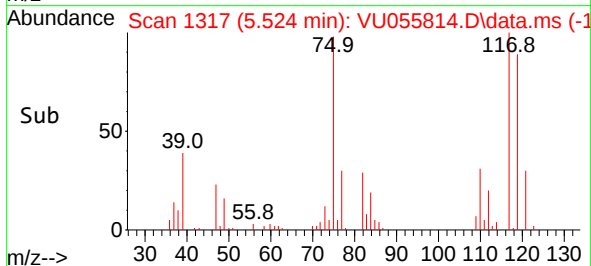
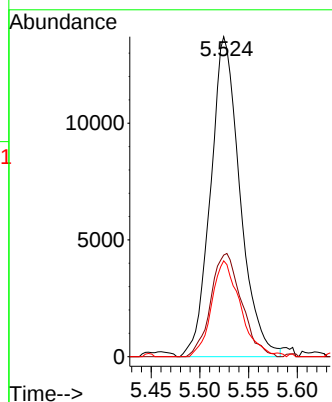
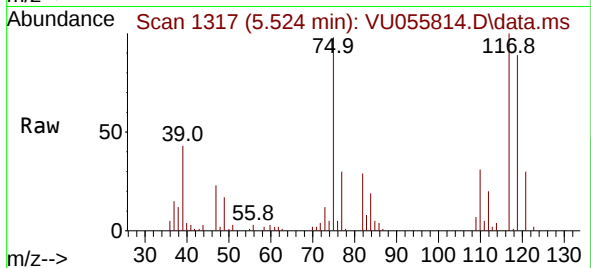
Ion	Ratio	Lower	Upper
75	100		
110	33.7	18.0	54.0
77	29.3	24.7	37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#30

Carbon Tetrachloride

Concen: 0.750 ug/l

RT: 5.521 min Scan# 1316

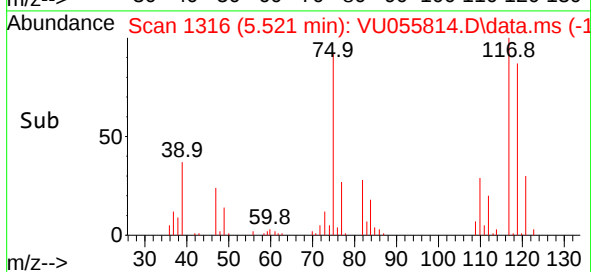
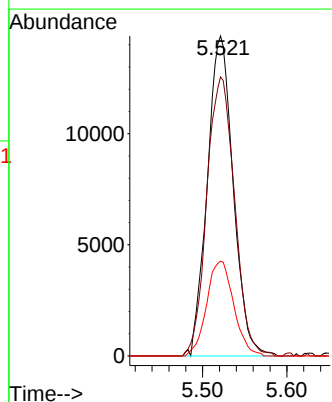
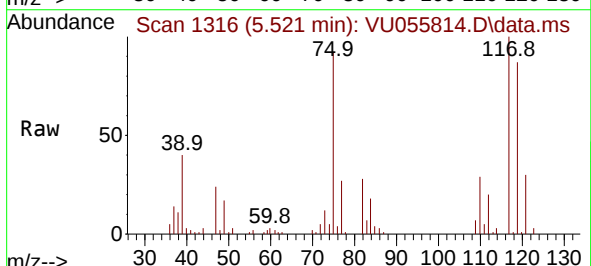
Delta R.T. 0.000 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Tgt Ion:117 Resp: 30803

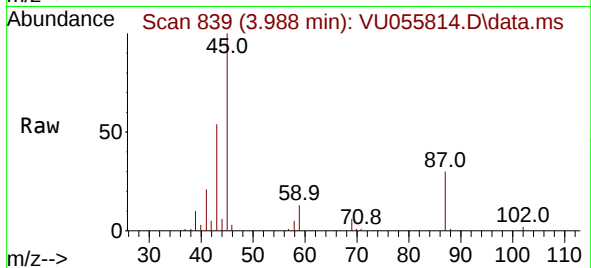
Ion	Ratio	Lower	Upper
117	100		
119	87.2	77.4	116.0
121	29.6	24.0	36.0





#31
Isopropyl Ether
Concen: 0.765 ug/l
RT: 3.988 min Scan# 839
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

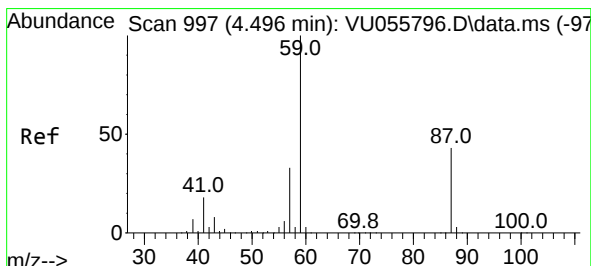
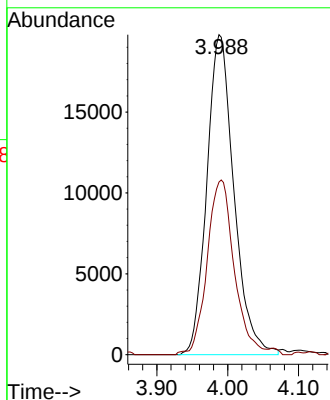
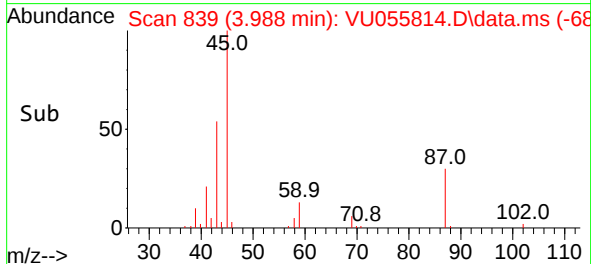
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



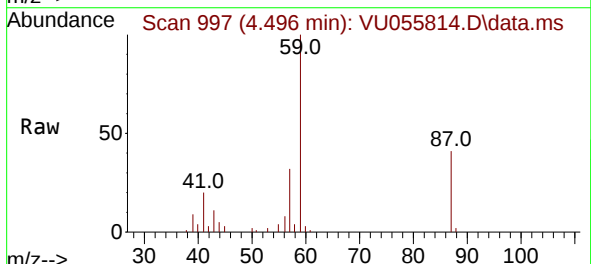
Tgt Ion: 45 Resp: 5258
Ion Ratio Lower Upper
45 100
43 54.3 27.5 82.5

Manual Integrations
APPROVED

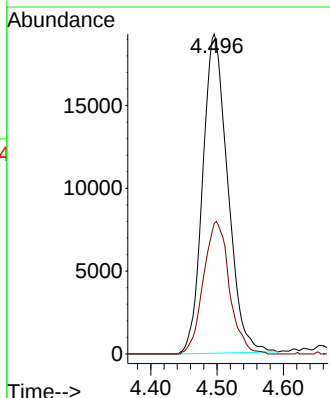
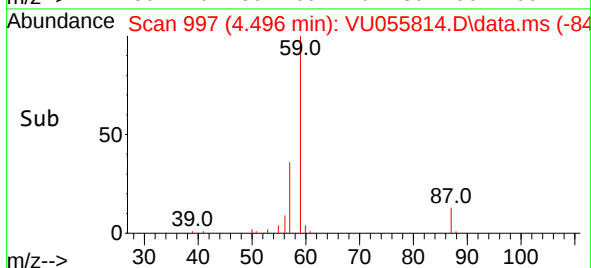
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

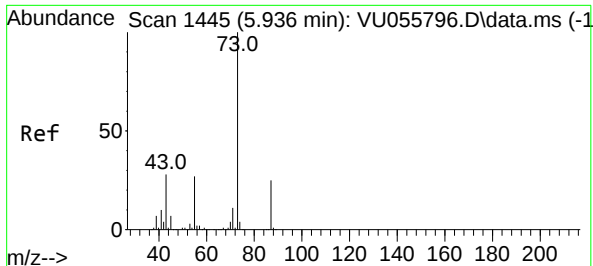


#32
Ethyl-t-butyl ether
Concen: 0.762 ug/l
RT: 4.496 min Scan# 997
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



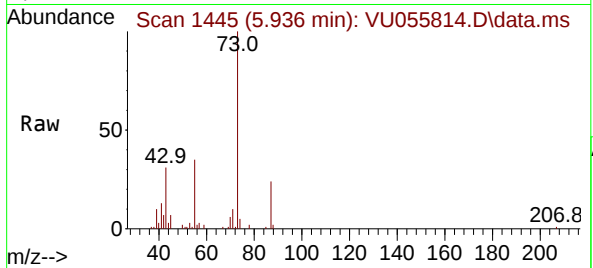
Tgt Ion: 59 Resp: 50568
Ion Ratio Lower Upper
59 100
87 43.0 33.5 50.3





#33
Tert-Amyl methyl ether
Concen: 0.733 ug/l
RT: 5.936 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

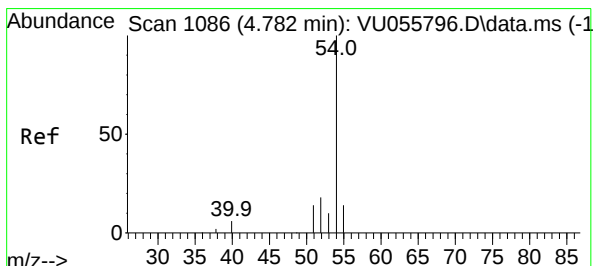
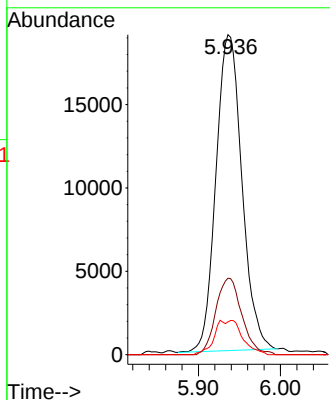
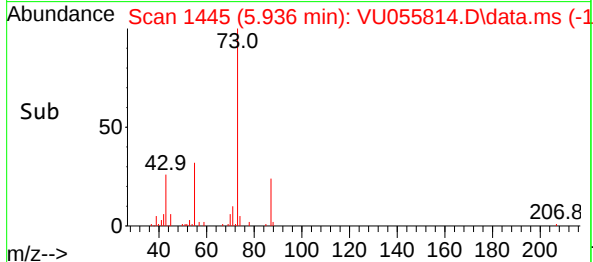
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 73 Resp: 41672
Ion Ratio Lower Upper
73 100
87 24.2 18.6 28.0
71 5.1 9.9 14.9

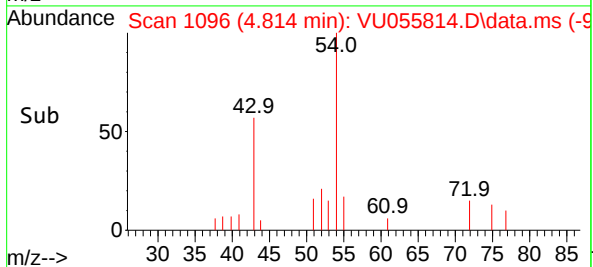
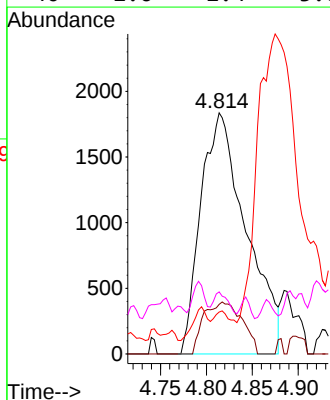
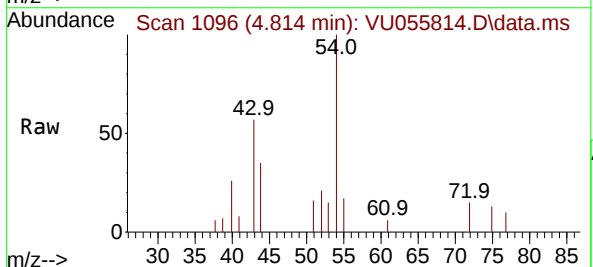
Manual Integrations
APPROVED

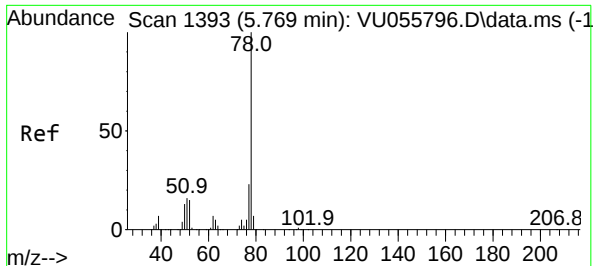
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#34
Propionitrile
Concen: 3.558 ug/l
RT: 4.814 min Scan# 1096
Delta R.T. 0.032 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

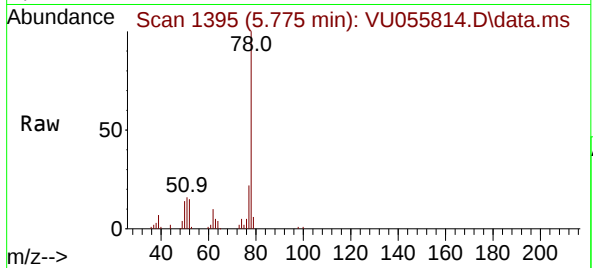
Tgt Ion: 54 Resp: 6313
Ion Ratio Lower Upper
54 100
52 18.2 17.4 26.0
55 0.0 104.1 156.1#
40 2.6 2.4 3.6





#35
Benzene
Concen: 0.761 ug/l
RT: 5.775 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

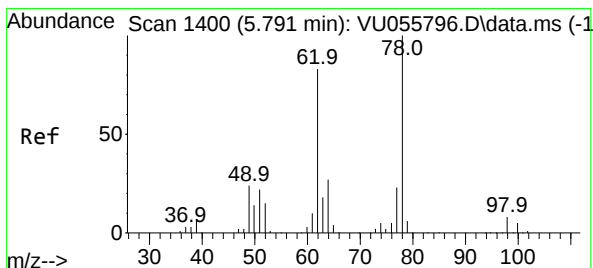
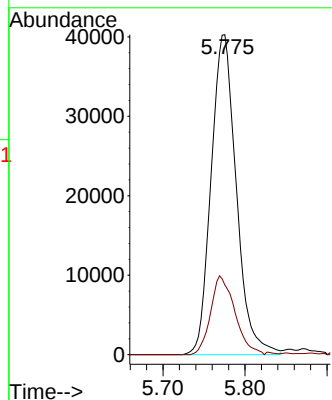
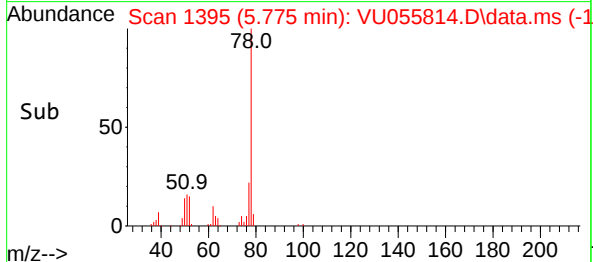
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 78 Resp: 86008
Ion Ratio Lower Upper
78 100
77 21.8 18.9 28.3

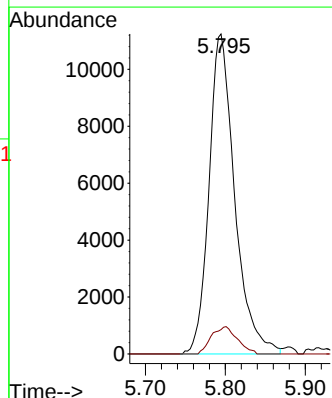
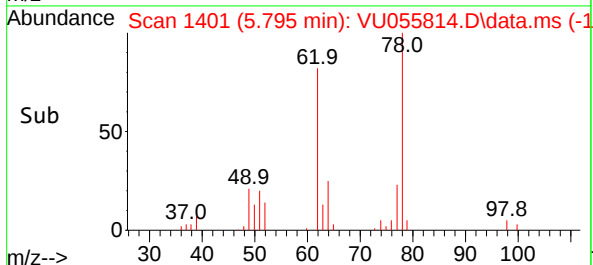
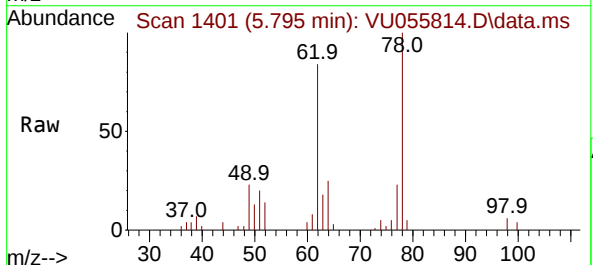
Manual Integrations
APPROVED

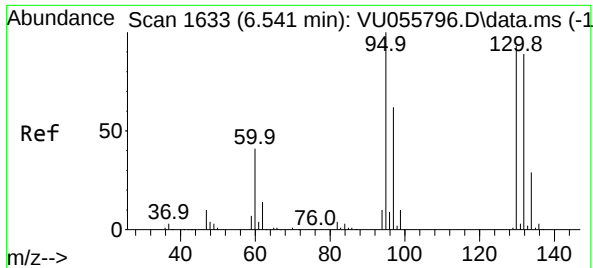
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#36
1,2-Dichloroethane
Concen: 0.819 ug/l
RT: 5.795 min Scan# 1401
Delta R.T. 0.004 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion: 62 Resp: 25121
Ion Ratio Lower Upper
62 100
98 8.6 7.3 10.9





#37

Trichloroethene

Concen: 0.753 ug/l

RT: 6.541 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion:130 Resp: 2213

Ion Ratio Lower Upper

130 100

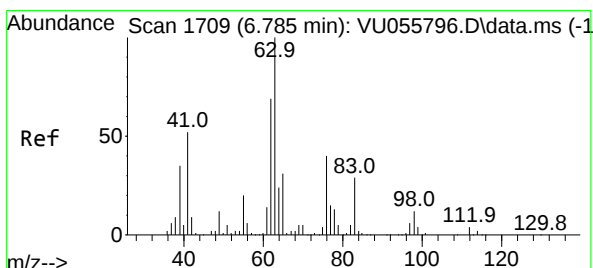
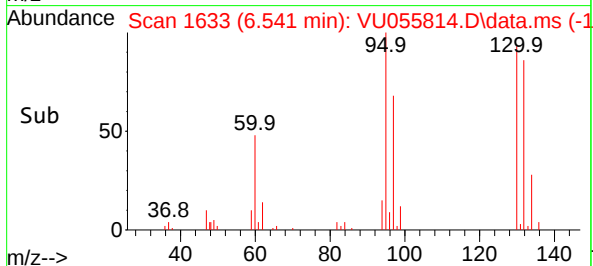
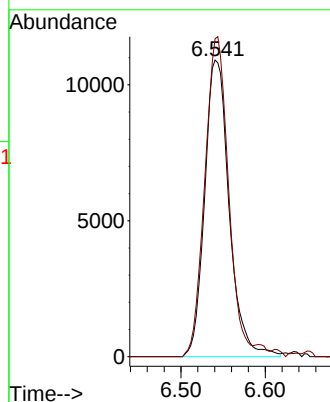
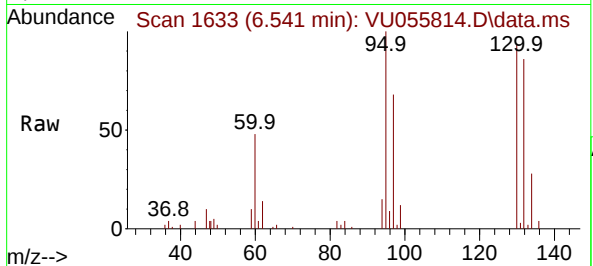
95 107.1 85.0 127.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#38

1,2-Dichloropropane

Concen: 0.735 ug/l

RT: 6.788 min Scan# 1710

Delta R.T. 0.003 min

Lab File: VU055814.D

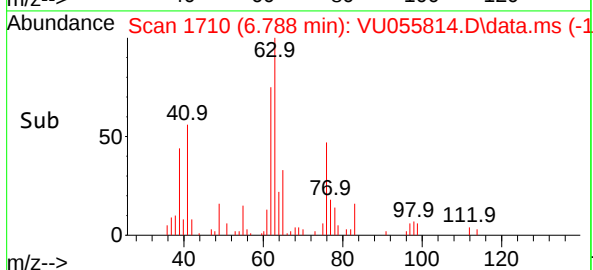
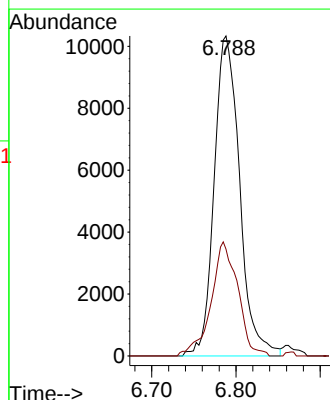
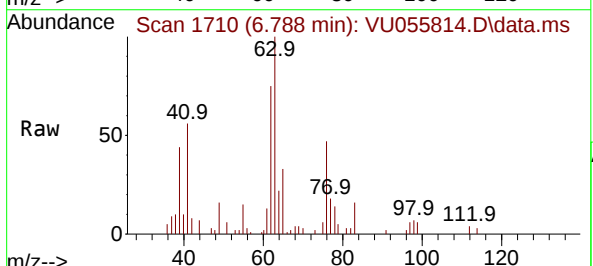
Acq: 19 Oct 2023 17:16

Tgt Ion: 63 Resp: 21679

Ion Ratio Lower Upper

63 100

65 33.4 24.9 37.3





#39

Methacrylonitrile

Concen: 0.796 ug/l

RT: 4.984 min Scan# 1149

Delta R.T. 0.016 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 41 Resp: 5268

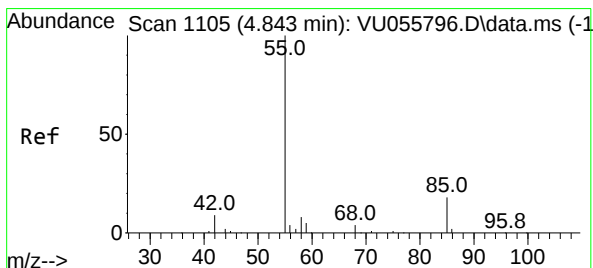
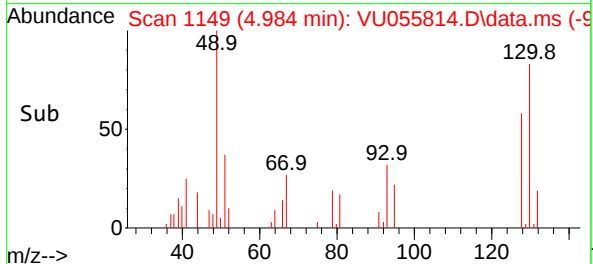
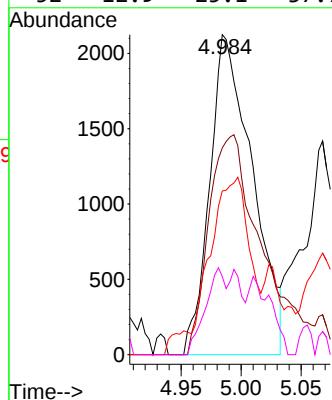
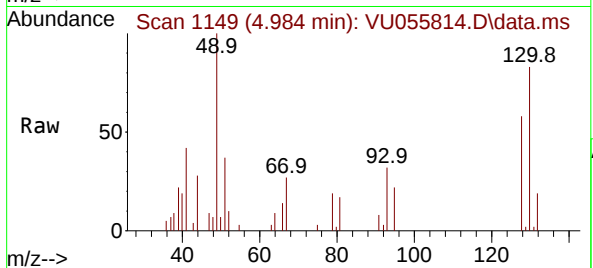
Ion	Ratio	Lower	Upper
41	100		
67	85.3	66.8	100.2
39	54.5	41.2	61.8
52	12.9	25.1	37.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#40

Methyl acrylate

Concen: 0.633 ug/l

RT: 4.875 min Scan# 1115

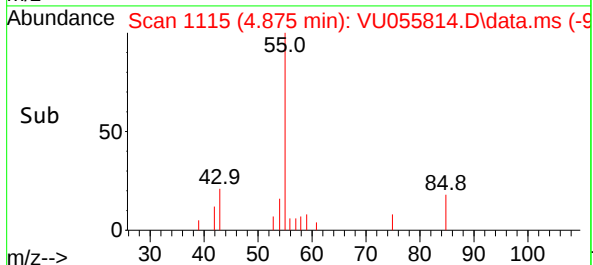
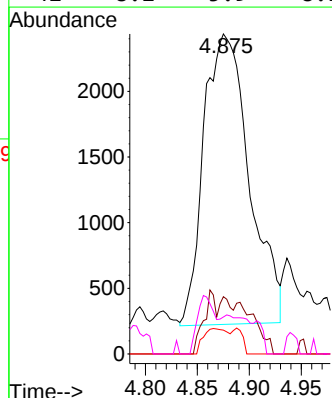
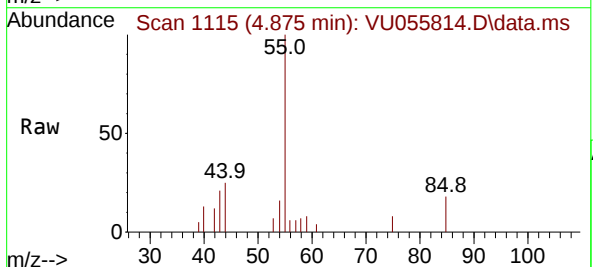
Delta R.T. 0.032 min

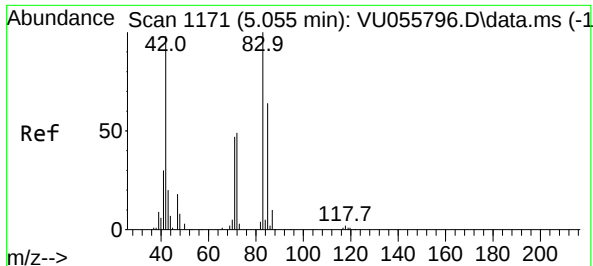
Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Tgt Ion: 55 Resp: 6749

Ion	Ratio	Lower	Upper
55	100		
85	0.0	13.3	19.9#
58	4.7	6.5	9.7#
42	8.2	5.9	8.9





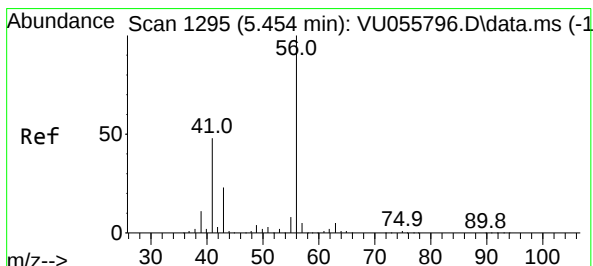
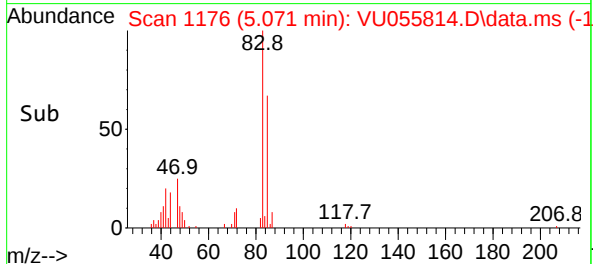
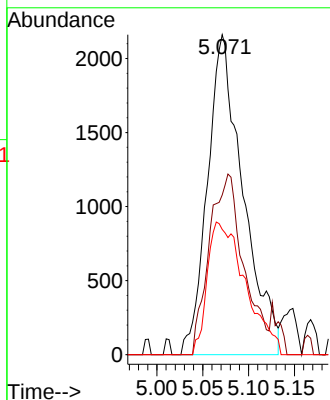
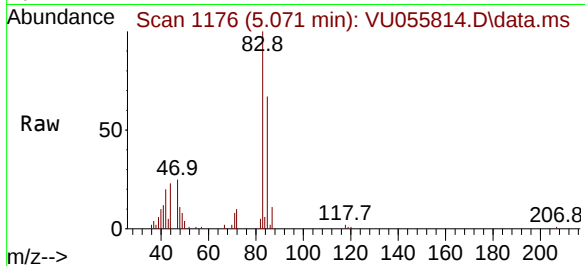
#41
Tetrahydrofuran
Concen: 1.557 ug/l
RT: 5.071 min Scan# 1171
Delta R.T. 0.016 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion: 42 Resp: 583
Ion Ratio Lower Upper
42 100
72 54.8 40.9 61.3
71 44.4 36.9 55.3

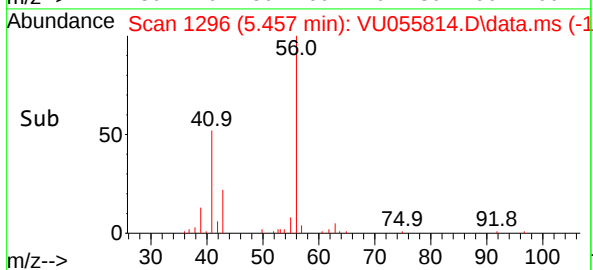
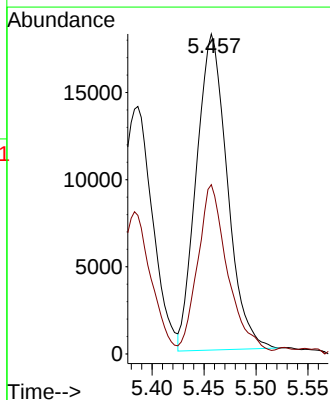
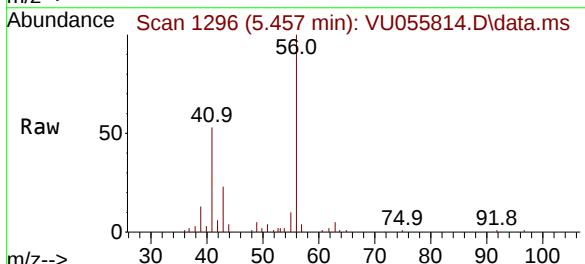
Manual Integrations
APPROVED

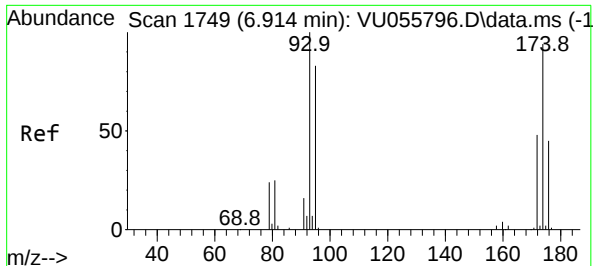
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#42
1-Chlorobutane
Concen: 0.755 ug/l
RT: 5.457 min Scan# 1296
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

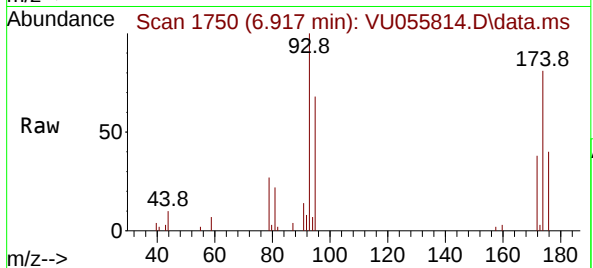
Tgt Ion: 56 Resp: 37545
Ion Ratio Lower Upper
56 100
41 50.4 25.2 75.6





#43
Dibromomethane
Concen: 0.786 ug/l
RT: 6.917 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

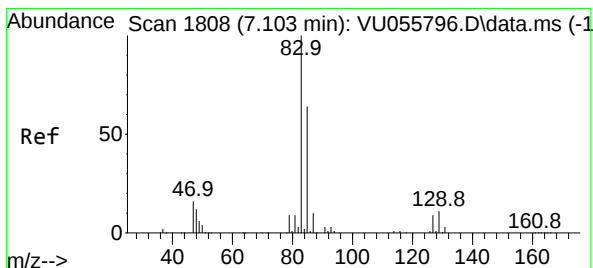
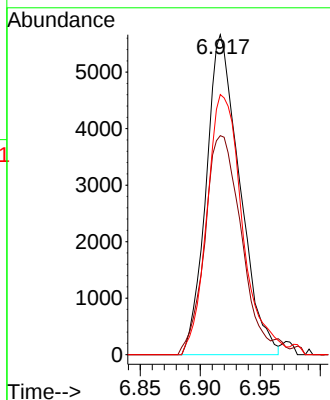
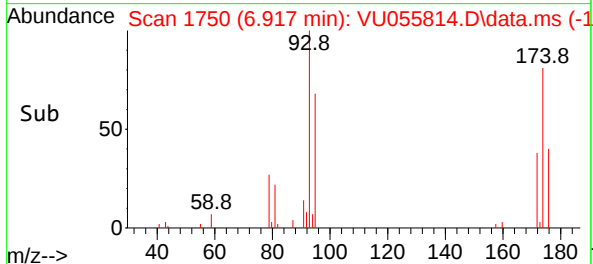
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



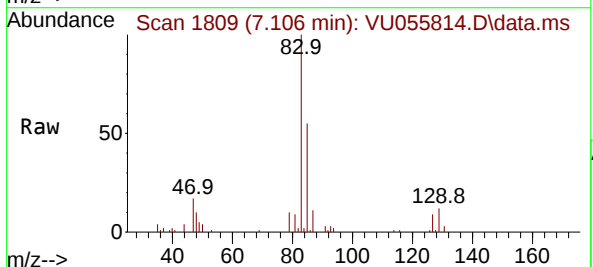
Tgt Ion: 93 Resp: 1101
Ion Ratio Lower Upper
93 100
95 75.5 67.0 100.6
174 85.8 73.8 110.6

Manual Integrations
APPROVED

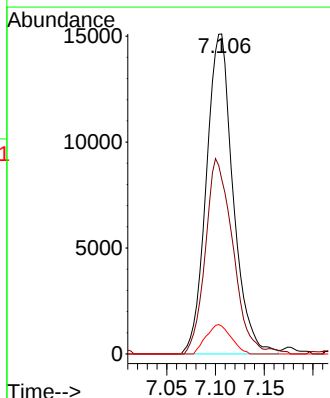
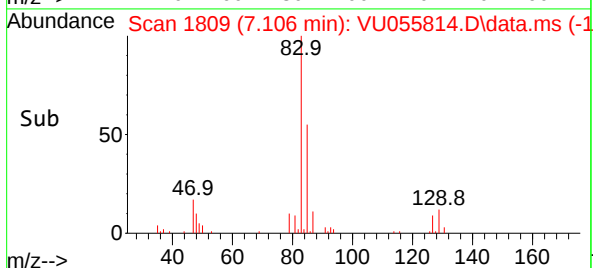
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

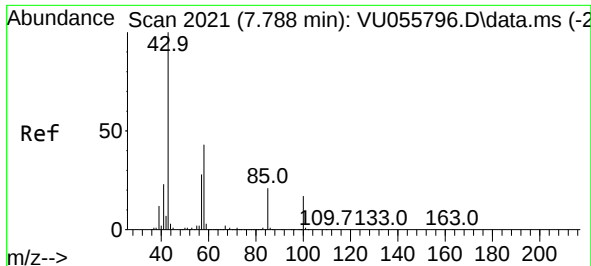


#44
Bromodichloromethane
Concen: 0.779 ug/l
RT: 7.106 min Scan# 1809
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



Tgt Ion: 83 Resp: 28878
Ion Ratio Lower Upper
83 100
85 54.6 51.9 77.9
127 9.4 6.7 10.1





#45

4-Methyl-2-Pentanone

Concen: 3.574 ug/l

RT: 7.791 min Scan# 2021

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

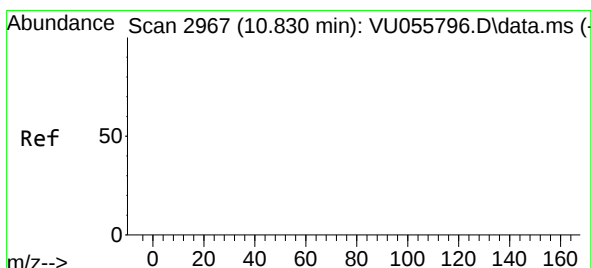
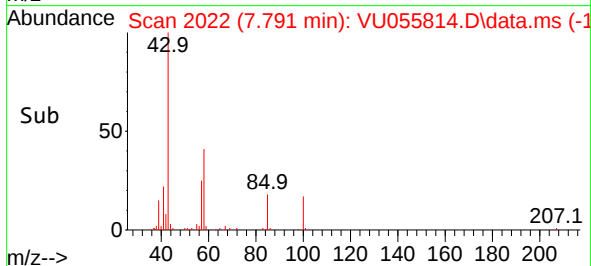
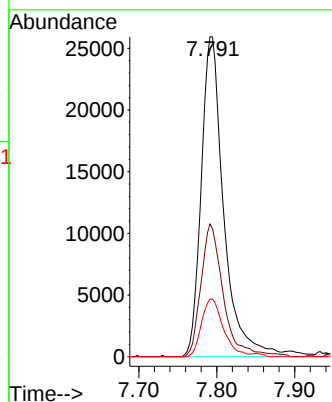
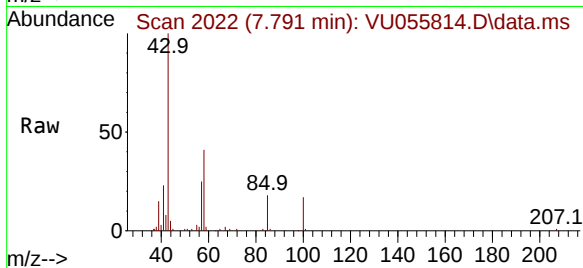
Tgt Ion:	43	Resp:	5181
Ion Ratio	Lower	Upper	
43	100		
58	41.3	20.9	62.8
85	17.5	14.6	21.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#46

t-1,4-Dichloro-2-butene

Concen: 0.741 ug/l m

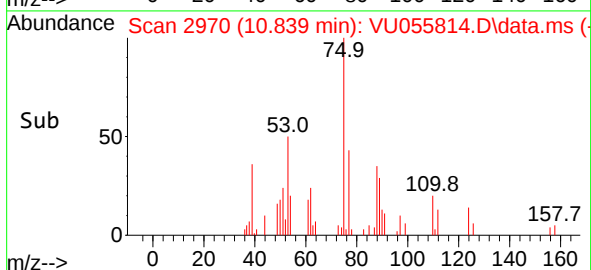
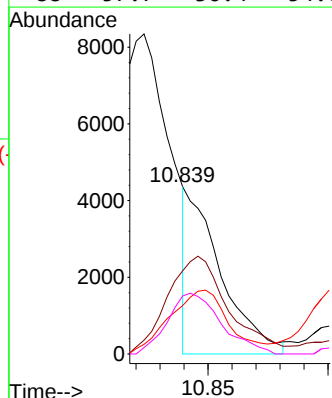
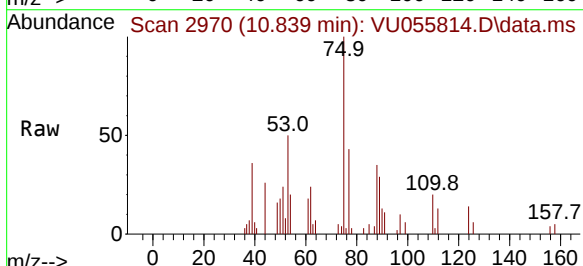
RT: 10.839 min Scan# 2970

Delta R.T. 0.009 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

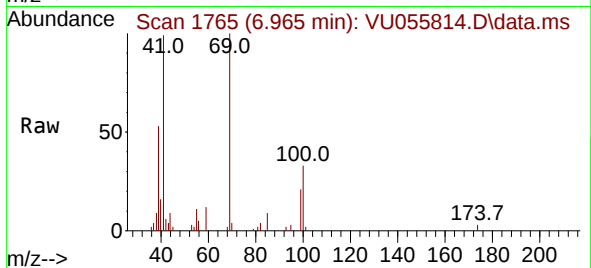
Tgt Ion:	75	Resp:	4273
Ion Ratio	Lower	Upper	
75	100		
53	105.9	73.3	109.9
89	66.9	48.2	72.4
88	57.7	36.4	54.6





#47
Methyl methacrylate
Concen: 1.435 ug/l
RT: 6.965 min Scan# 1765
Delta R.T. 0.006 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

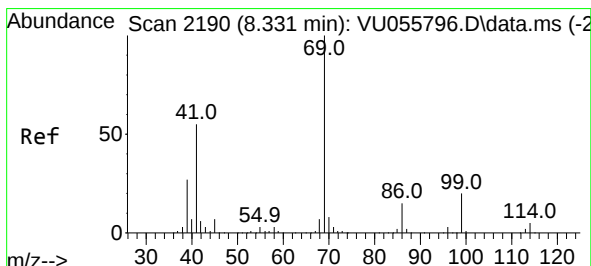
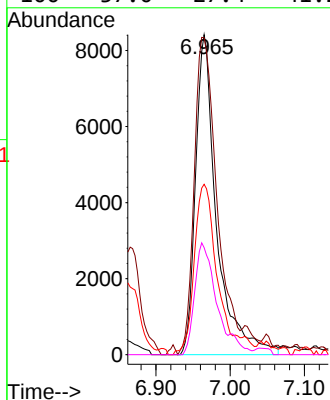
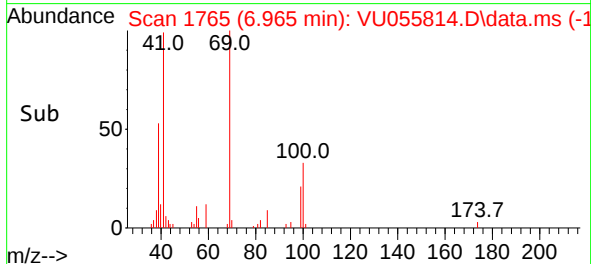
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 69 Resp: 16600
Ion Ratio Lower Upper
69 100
41 106.8 0.0 209.2
39 59.6 46.7 70.1
100 37.0 27.4 41.2

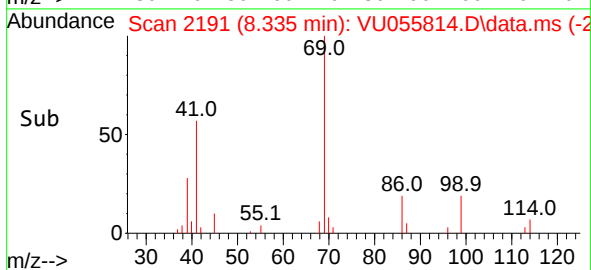
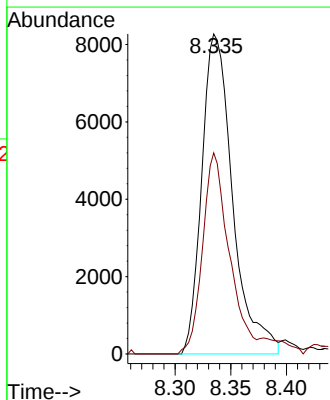
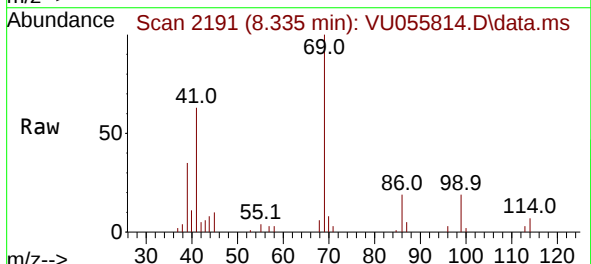
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#48
Ethyl methacrylate
Concen: 0.726 ug/l
RT: 8.335 min Scan# 2191
Delta R.T. 0.004 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion: 69 Resp: 15941
Ion Ratio Lower Upper
69 100
41 54.1 30.3 90.8





#49

Toluene

Concen: 0.752 ug/l

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 92 Resp: 50280

Ion Ratio Lower Upper

92 100

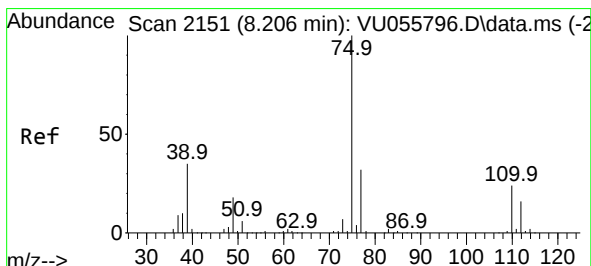
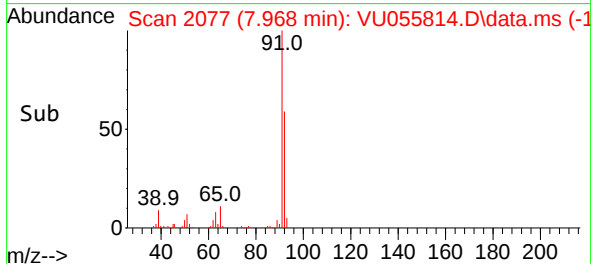
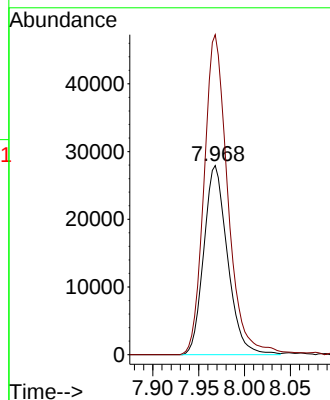
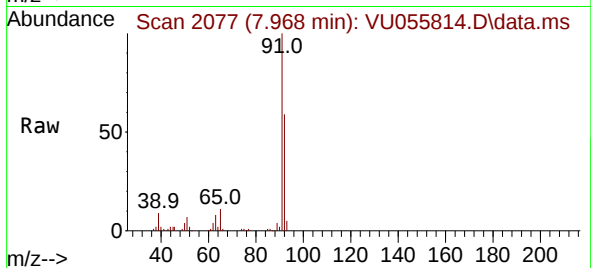
91 170.4 143.0 214.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#50

t-1,3-Dichloropropene

Concen: 0.701 ug/l

RT: 8.212 min Scan# 2153

Delta R.T. 0.006 min

Lab File: VU055814.D

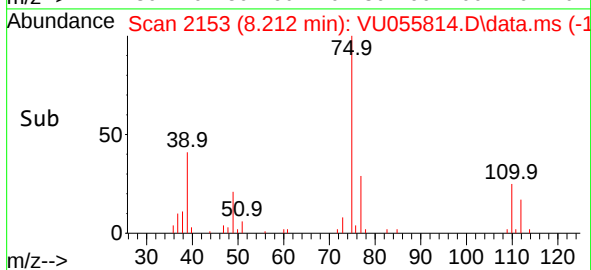
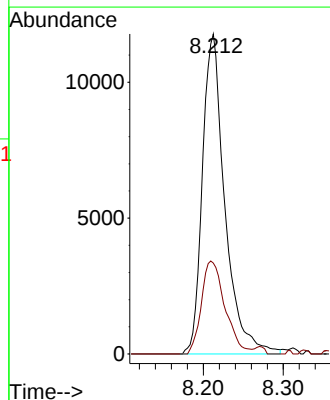
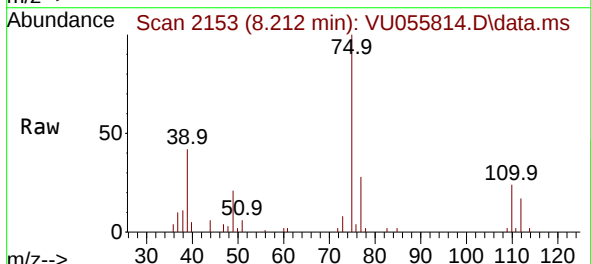
Acq: 19 Oct 2023 17:16

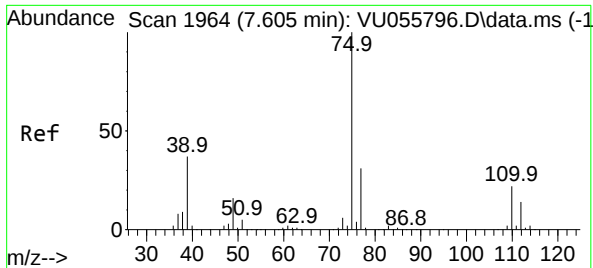
Tgt Ion: 75 Resp: 22998

Ion Ratio Lower Upper

75 100

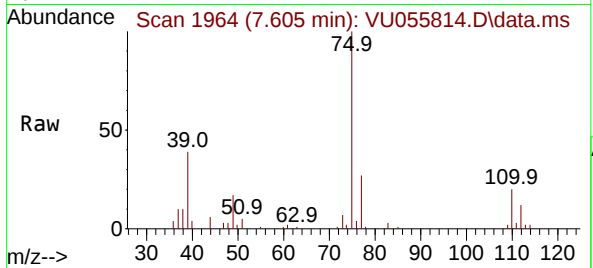
77 28.4 25.3 37.9





#51
 cis-1,3-Dichloropropene
 Concen: 0.741 ug/l
 RT: 7.605 min Scan# 1964
 Delta R.T. -0.000 min
 Lab File: VU055814.D
 Acq: 19 Oct 2023 17:16

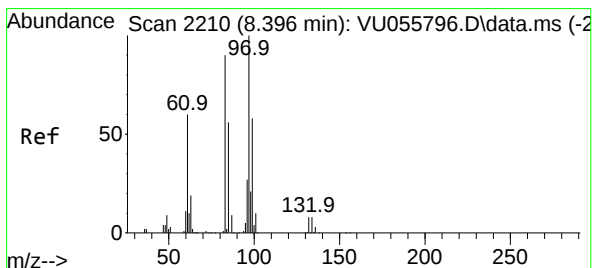
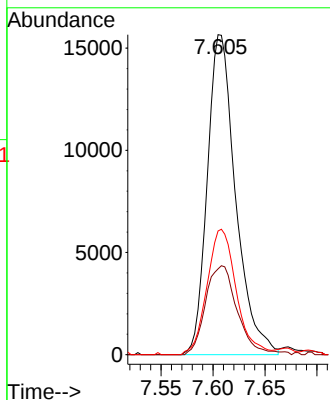
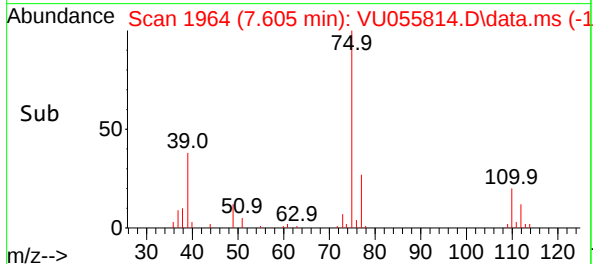
Instrument : MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023



Tgt Ion: 75 Resp: 29720
 Ion Ratio Lower Upper
 75 100
 77 26.8 25.7 38.5
 39 38.6 32.8 49.2

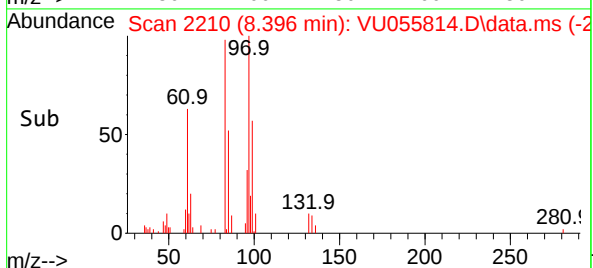
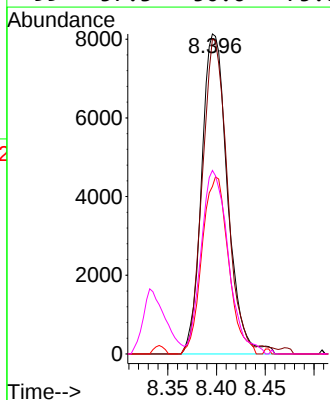
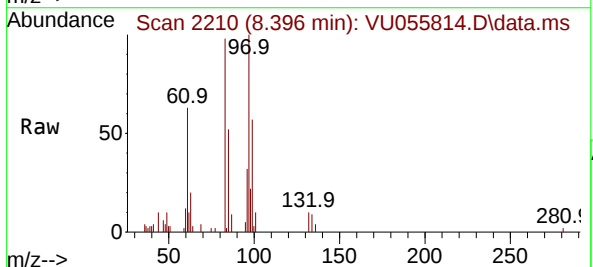
Manual Integrations
 APPROVED

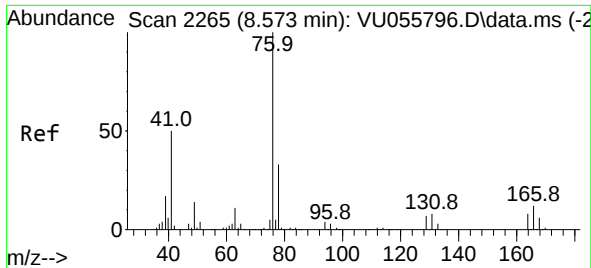
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023



#52
 1,1,2-Trichloroethane
 Concen: 0.749 ug/l
 RT: 8.396 min Scan# 2210
 Delta R.T. -0.000 min
 Lab File: VU055814.D
 Acq: 19 Oct 2023 17:16

Tgt Ion: 97 Resp: 14995
 Ion Ratio Lower Upper
 97 100
 83 98.4 71.8 107.8
 85 52.4 45.2 67.8
 99 57.3 50.6 75.8





#53

1,3-Dichloropropane

Concen: 0.767 ug/l

RT: 8.573 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 76 Resp: 2623

Ion Ratio Lower Upper

76 100

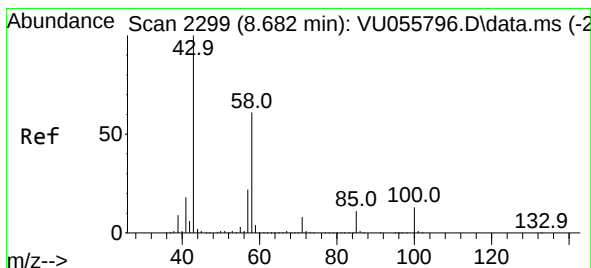
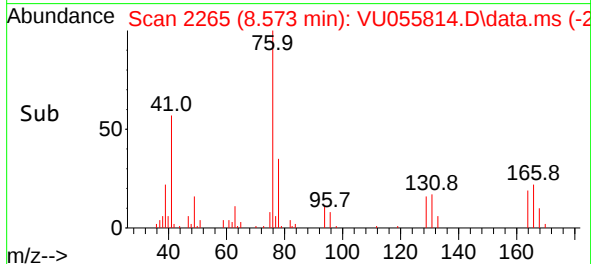
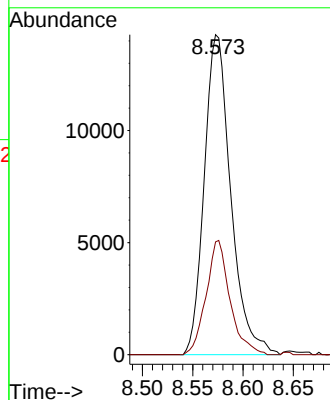
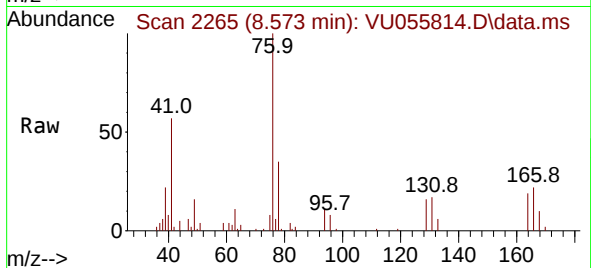
78 32.1 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#54

2-Hexanone

Concen: 2.165 ug/l

RT: 8.692 min Scan# 2302

Delta R.T. 0.010 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

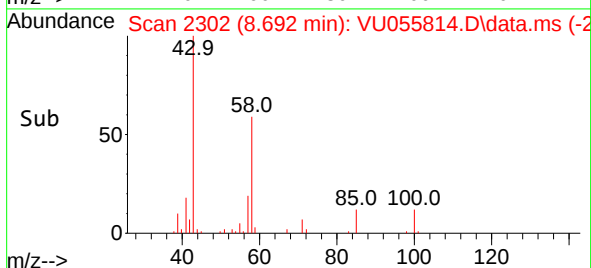
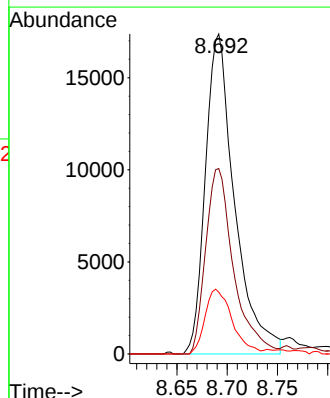
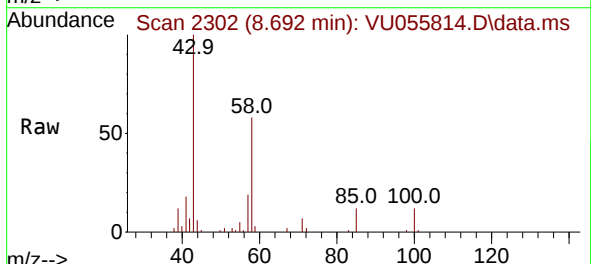
Tgt Ion: 43 Resp: 35163

Ion Ratio Lower Upper

43 100

58 55.1 38.2 78.2

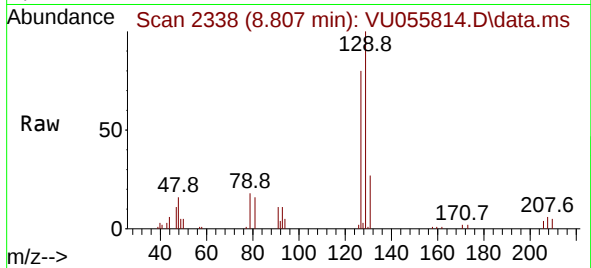
57 18.8 0.0 39.1





#55
Dibromochloromethane
Concen: 0.736 ug/l
RT: 8.807 min Scan# 2178
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

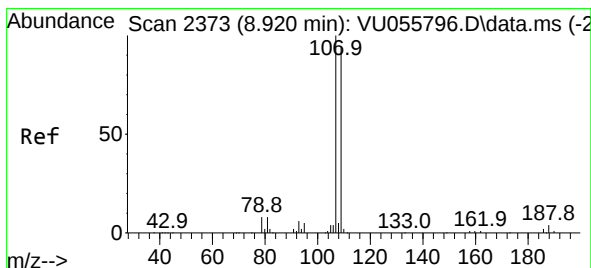
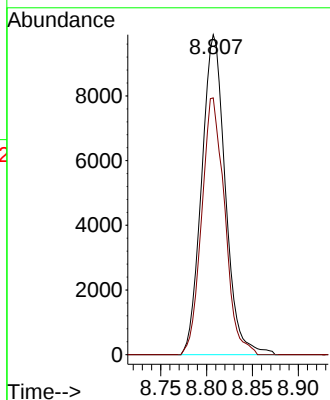
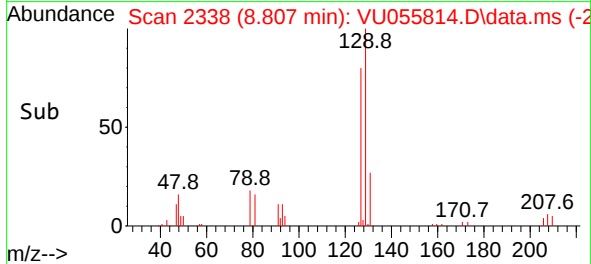
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



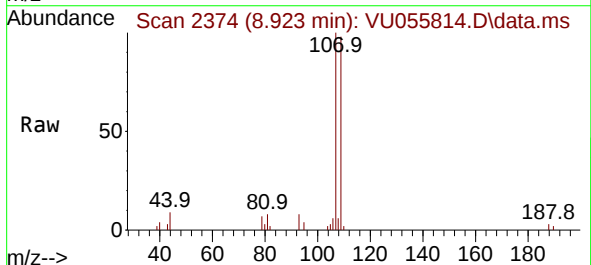
Tgt Ion:129 Resp: 1778
Ion Ratio Lower Upper
129 100
127 77.8 61.4 92.0

Manual Integrations
APPROVED

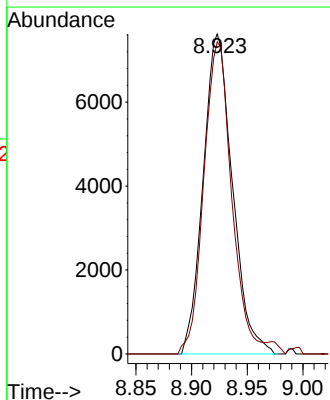
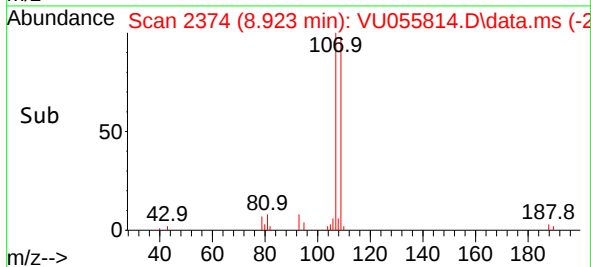
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

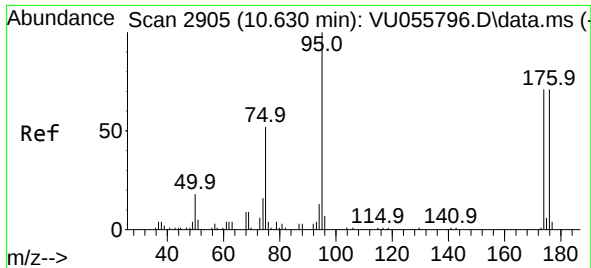


#56
1,2-Dibromoethane
Concen: 0.762 ug/l
RT: 8.923 min Scan# 2374
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



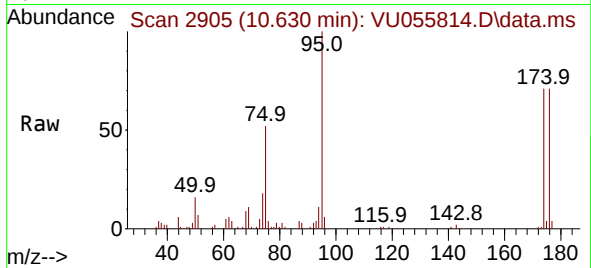
Tgt Ion:107 Resp: 13948
Ion Ratio Lower Upper
107 100
109 92.8 0.0 184.4





#57
4-Bromofluorobenzene
Concen: 0.976 ug/l
RT: 10.630 min Scan# 2905
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

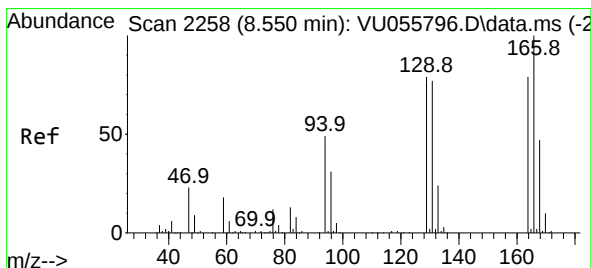
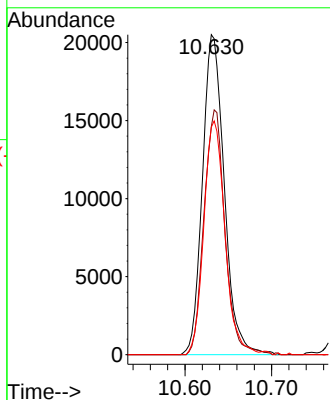
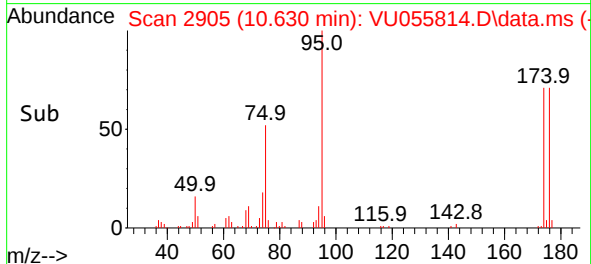
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



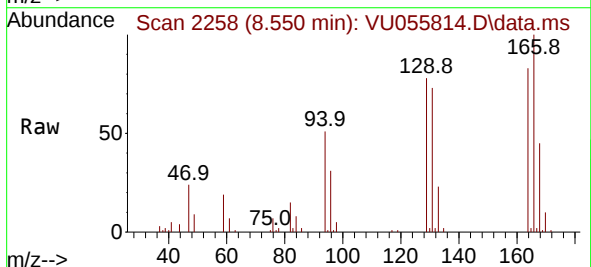
Tgt Ion: 95 Resp: 3585
Ion Ratio Lower Upper
95 100
174 73.3 63.3 94.9
176 70.7 59.3 88.9

Manual Integrations
APPROVED

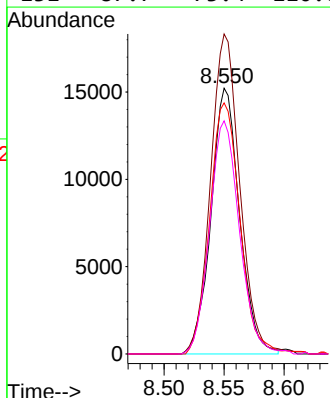
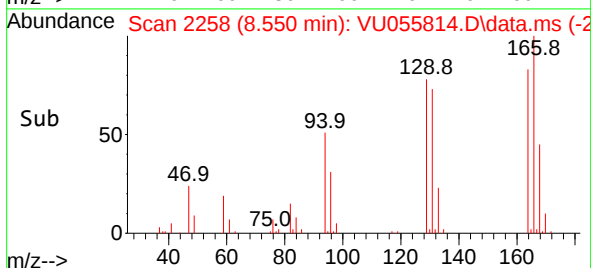
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

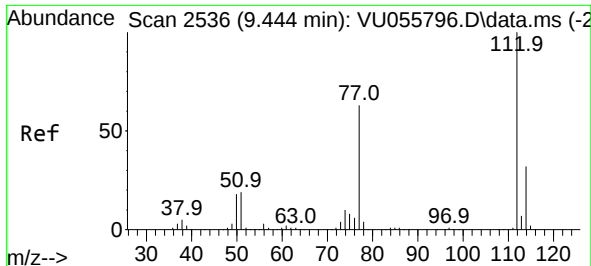


#58
Tetrachloroethene
Concen: 0.822 ug/l
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



Tgt Ion:164 Resp: 25116
Ion Ratio Lower Upper
164 100
166 120.4 99.6 149.4
129 94.4 78.6 117.8
131 87.7 73.4 110.0





#59

Chlorobenzene

Concen: 0.770 ug/l

RT: 9.447 min Scan# 2537

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion:112 Resp: 5685

Ion Ratio Lower Upper

112 100

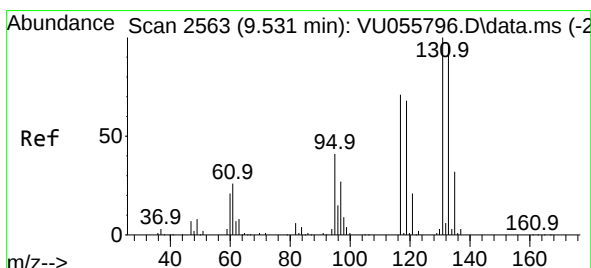
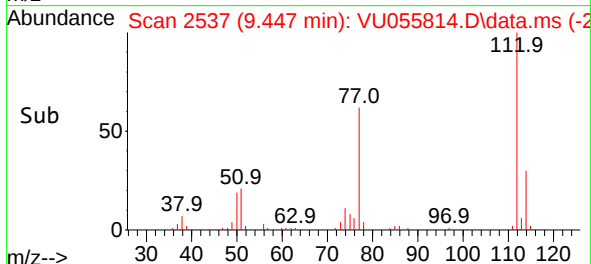
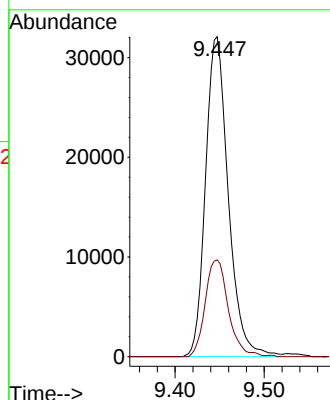
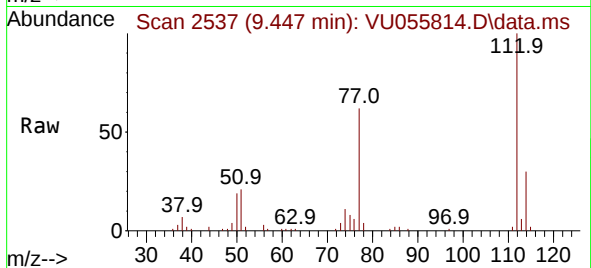
114 30.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#60

1,1,1,2-Tetrachloroethane

Concen: 0.726 ug/l

RT: 9.531 min Scan# 2563

Delta R.T. -0.000 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

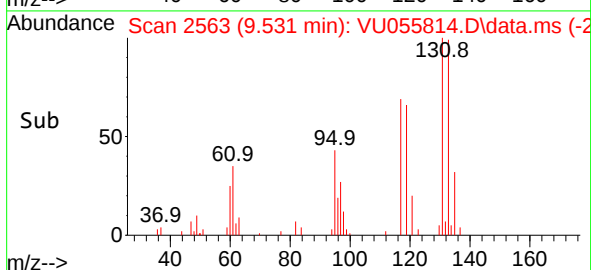
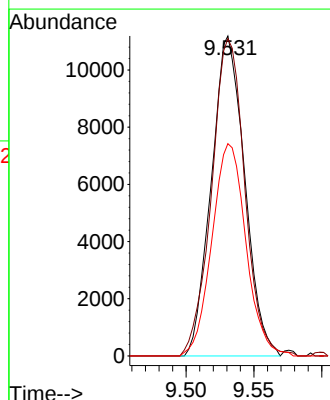
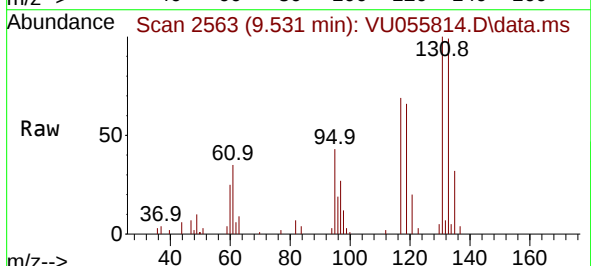
Tgt Ion:131 Resp: 19098

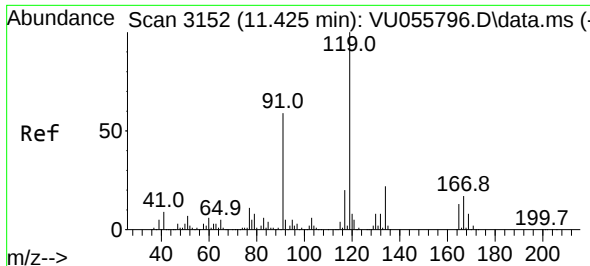
Ion Ratio Lower Upper

131 100

133 99.0 77.8 116.6

119 67.8 55.2 82.8





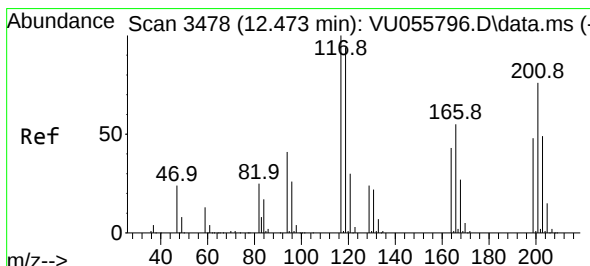
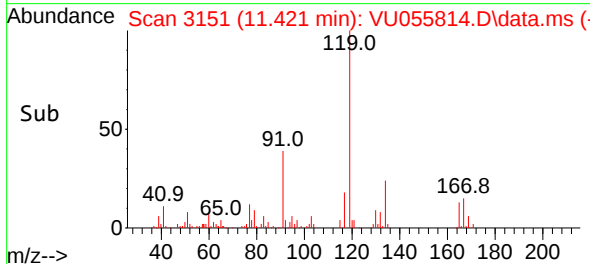
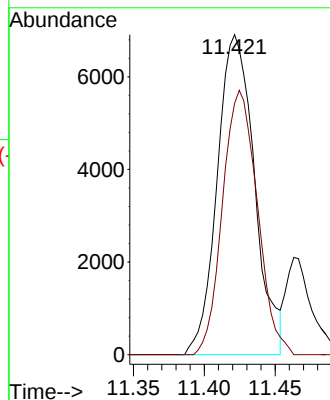
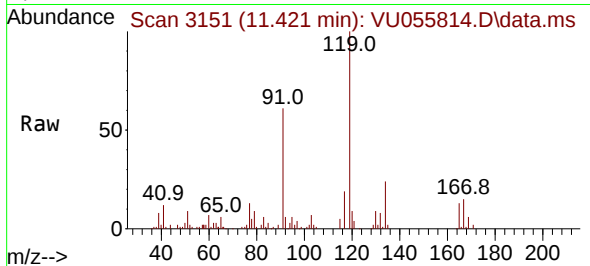
#61
Pentachloroethane
Concen: 0.711 ug/l
RT: 11.421 min Scan# 3152
Delta R.T. -0.004 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion:117 Resp: 12662
Ion Ratio Lower Upper
117 100
167 77.1 56.7 85.1

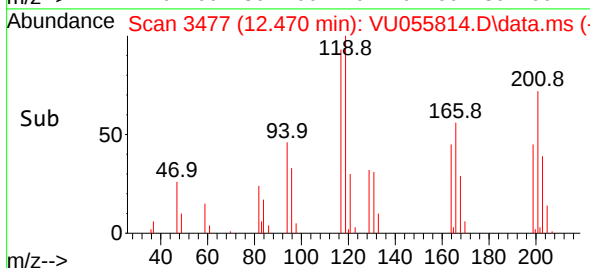
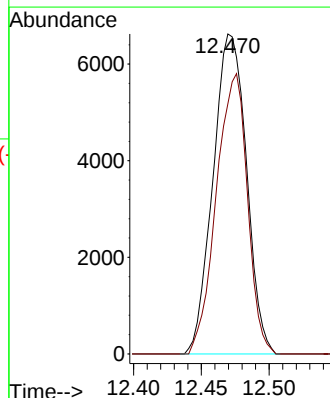
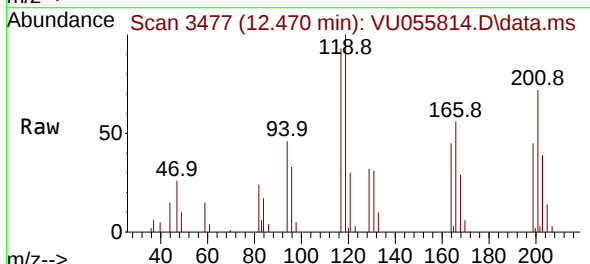
Manual Integrations
APPROVED

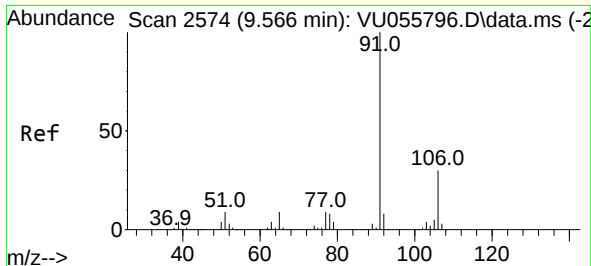
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#62
Hexachloroethane
Concen: 0.603 ug/l
RT: 12.470 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion:117 Resp: 11368
Ion Ratio Lower Upper
117 100
201 81.4 59.6 89.4





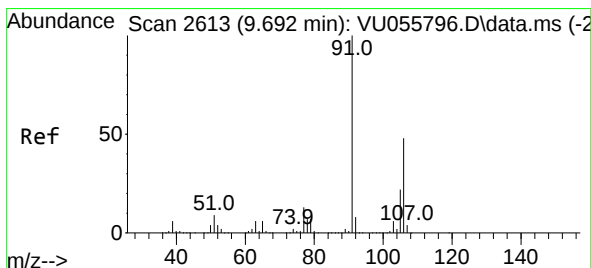
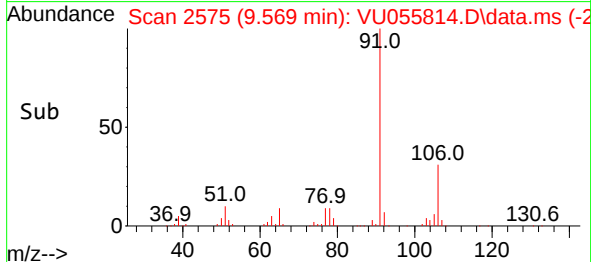
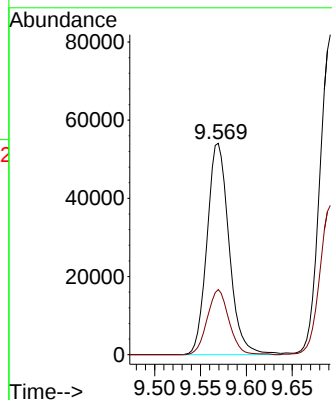
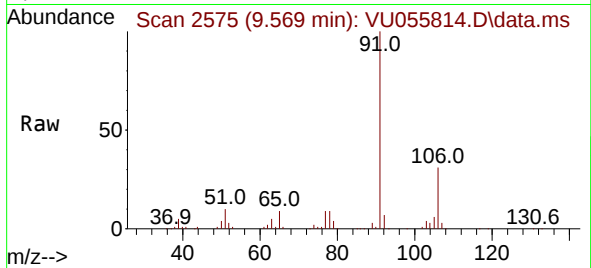
#63
Ethyl Benzene
Concen: 0.722 ug/l
RT: 9.569 min Scan# 2105
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion: 91 Resp: 90504
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2

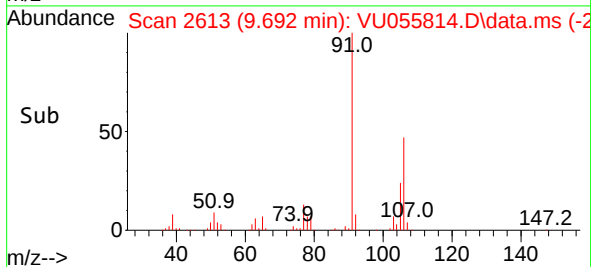
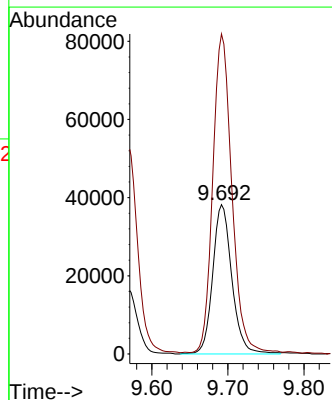
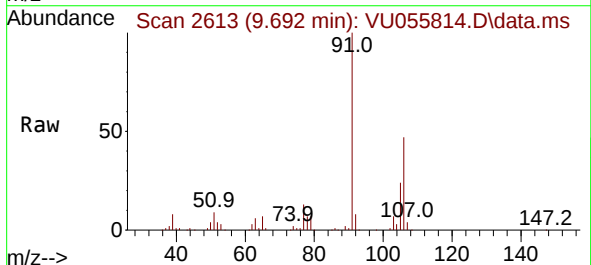
Manual Integrations
APPROVED

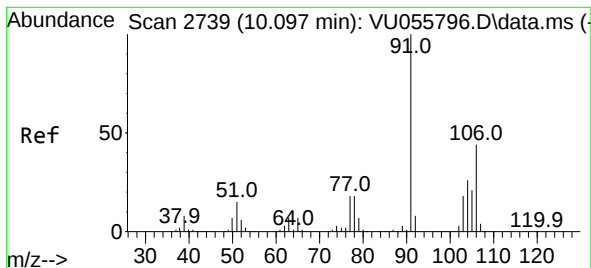
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#64
m/p-Xylenes
Concen: 1.390 ug/l
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion:106 Resp: 66942
Ion Ratio Lower Upper
106 100
91 211.5 167.3 250.9





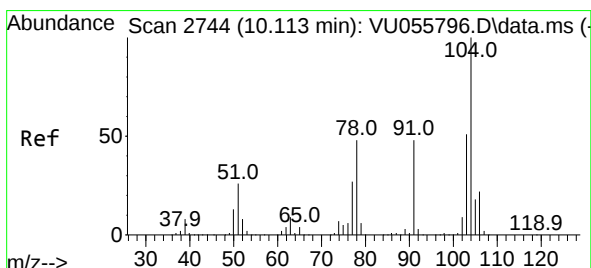
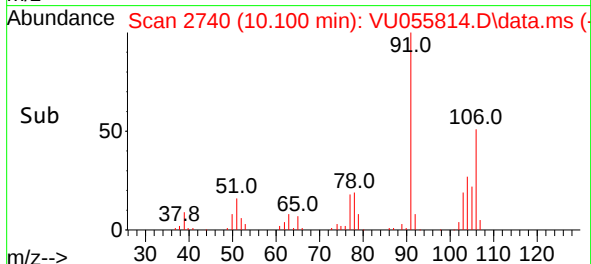
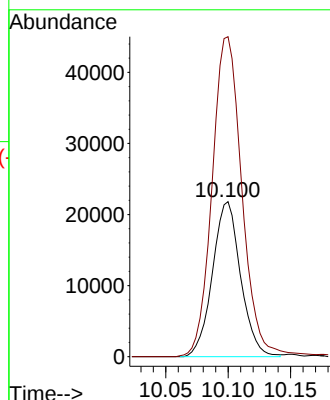
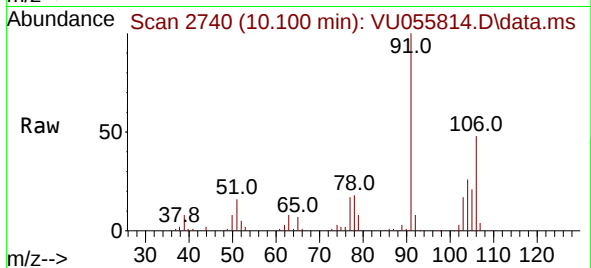
#65
o-Xylene
Concen: 0.725 ug/l
RT: 10.100 min Scan# 2739
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion:106 Resp: 34284
Ion Ratio Lower Upper
106 100
91 219.1 109.3 327.9

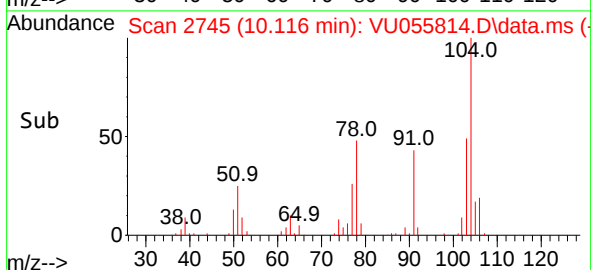
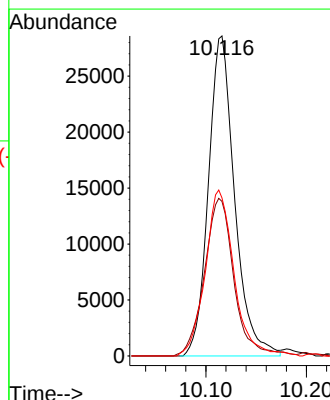
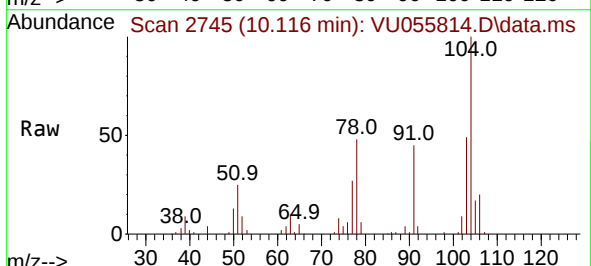
Manual Integrations
APPROVED

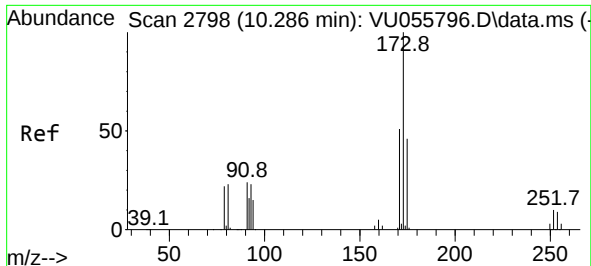
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#66
Styrene
Concen: 0.701 ug/l
RT: 10.116 min Scan# 2745
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

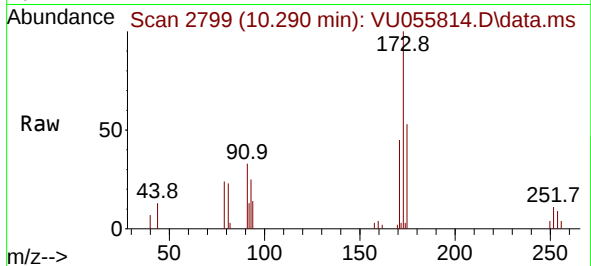
Tgt Ion:104 Resp: 51790
Ion Ratio Lower Upper
104 100
78 55.5 39.7 59.5
103 57.0 44.8 67.2





#67
Bromoform
Concen: 0.705 ug/l
RT: 10.290 min Scan# 21
Delta R.T. 0.004 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

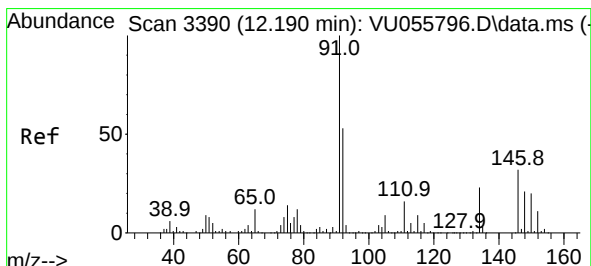
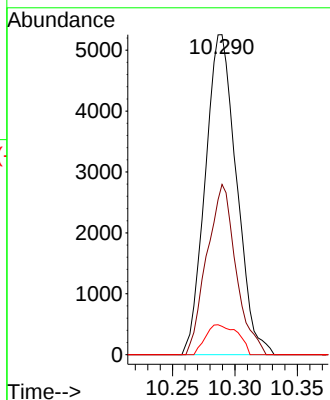
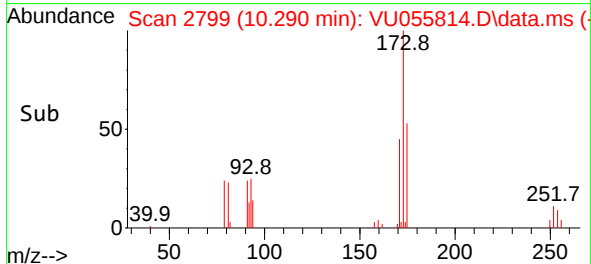
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



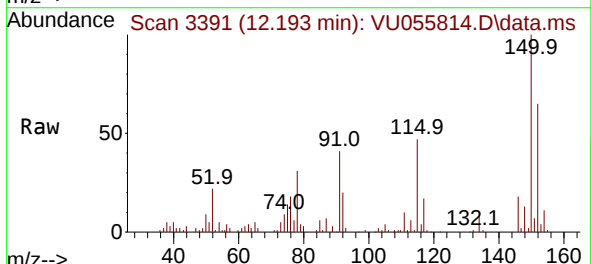
Tgt Ion:173 Resp: 915
Ion Ratio Lower Upper
173 100
175 49.7 39.0 58.6
254 9.6 7.4 11.0

Manual Integrations
APPROVED

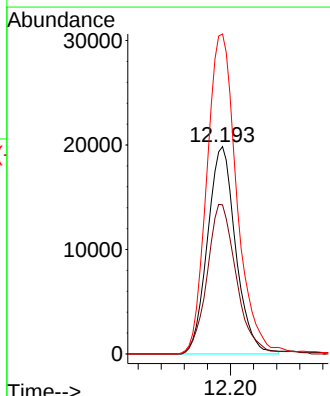
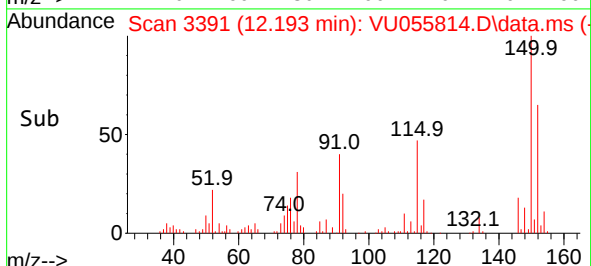
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

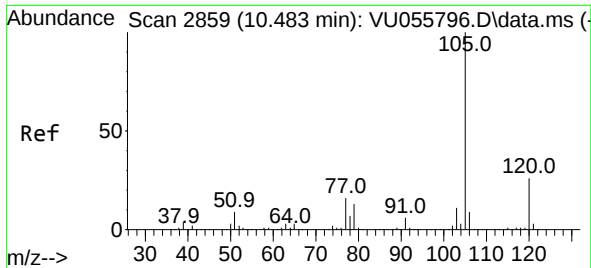


#68
1,2-Dichlorobenzene-d4
Concen: 0.985 ug/l
RT: 12.193 min Scan# 3391
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



Tgt Ion:152 Resp: 33527
Ion Ratio Lower Upper
152 100
115 75.5 0.0 308.8
150 164.4 0.0 635.0





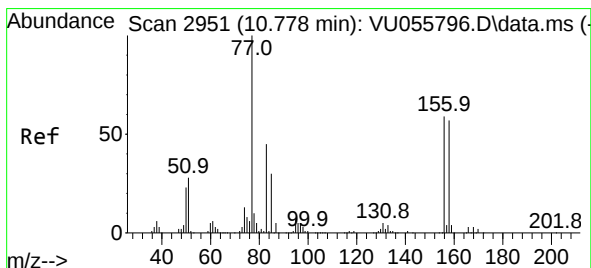
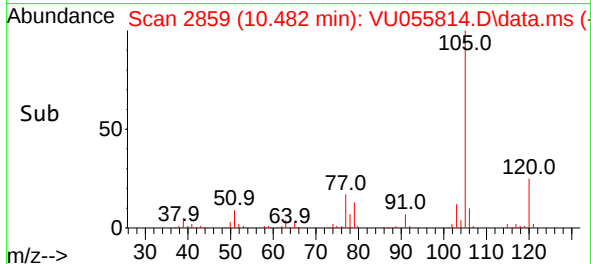
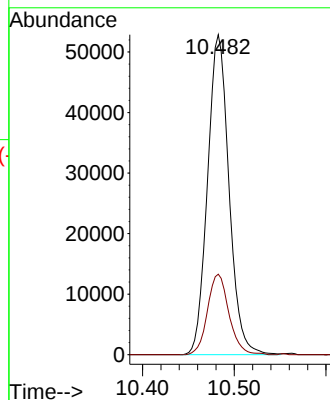
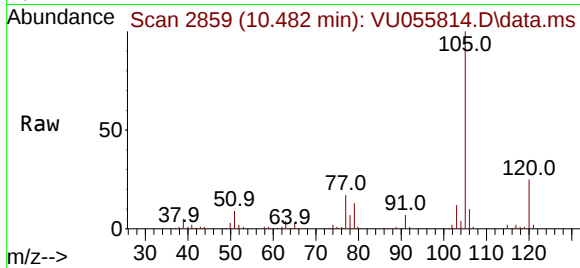
#69
Isopropylbenzene
Concen: 0.707 ug/l
RT: 10.482 min Scan# 2859
Delta R.T. -0.001 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023

Tgt Ion:105 Resp: 85964
Ion Ratio Lower Upper
105 100
120 25.2 12.8 38.4

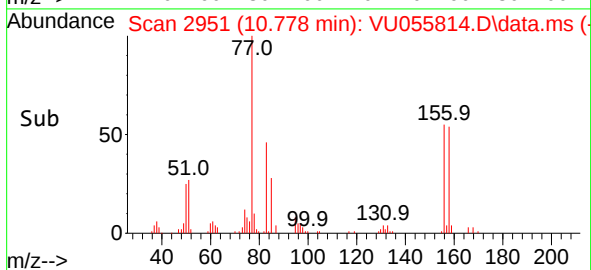
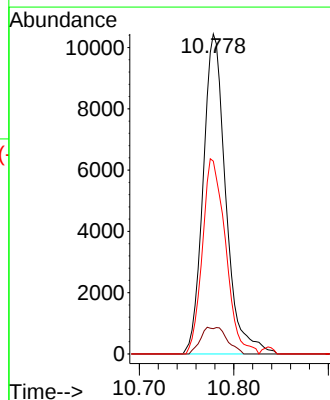
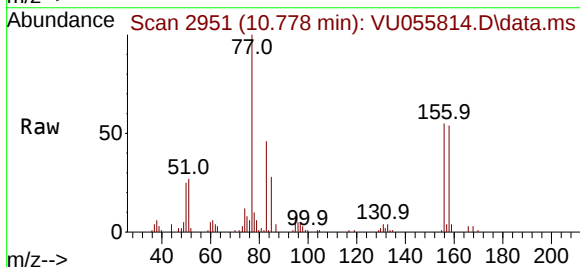
Manual Integrations
APPROVED

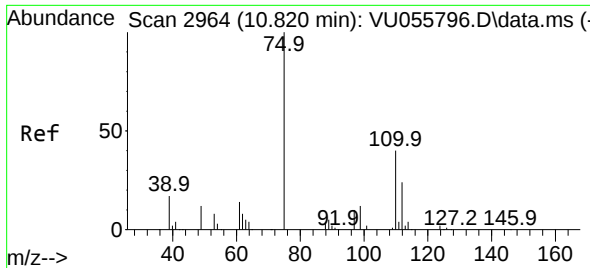
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#70
1,1,2,2-Tetrachloroethane
Concen: 0.742 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

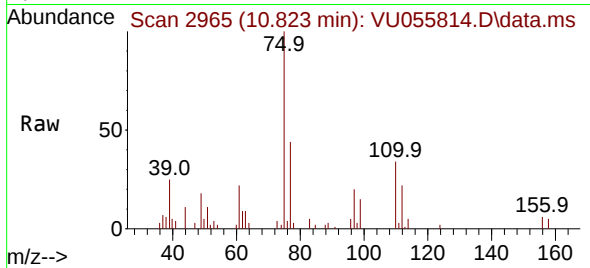
Tgt Ion: 83 Resp: 17370
Ion Ratio Lower Upper
83 100
131 9.7 7.2 10.8
85 62.2 50.5 75.7





#71
1,2,3-Trichloropropane
Concen: 0.640 ug/l m
RT: 10.823 min Scan# 2965
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

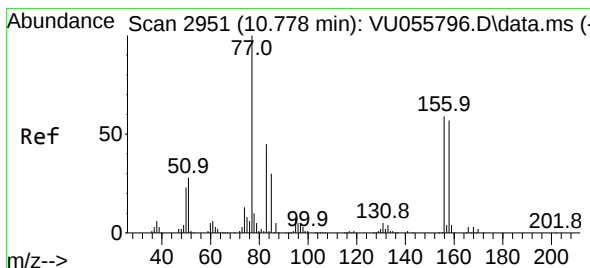
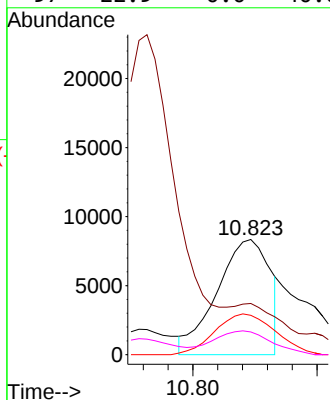
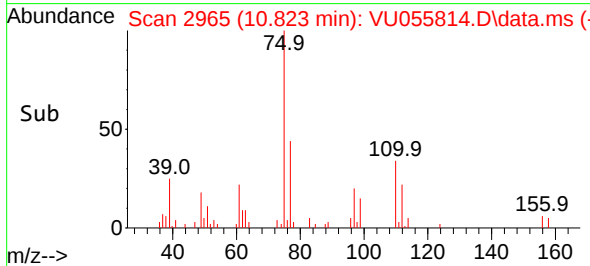
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



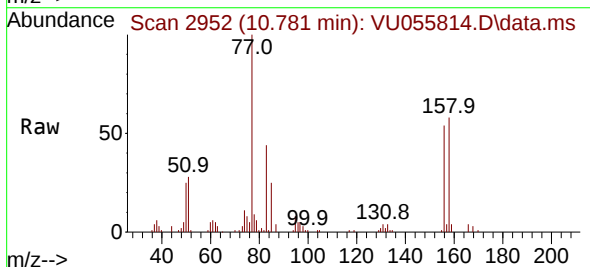
Tgt Ion: 75 Resp: 12418
Ion Ratio Lower Upper
75 100
77 0.0 0.0 116.4
110 40.1 0.0 74.6
97 22.9 0.0 40.0

Manual Integrations
APPROVED

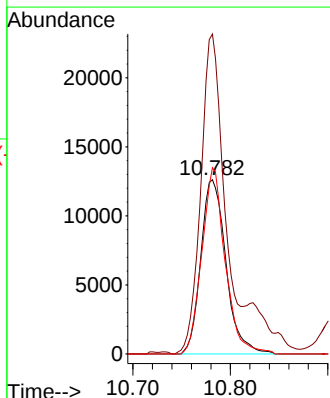
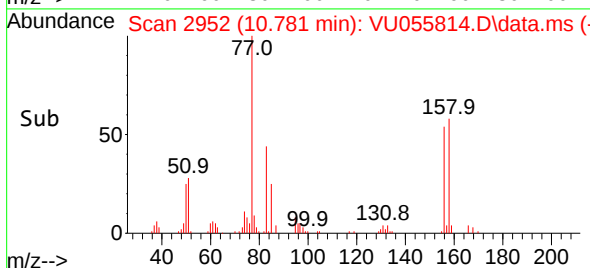
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

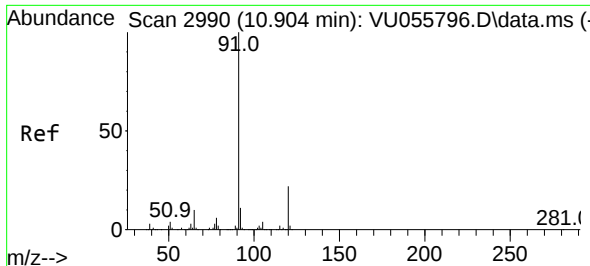


#72
Bromobenzene
Concen: 0.781 ug/l
RT: 10.781 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



Tgt Ion:156 Resp: 22670
Ion Ratio Lower Upper
156 100
77 170.6 0.0 343.0
158 99.4 0.0 194.8





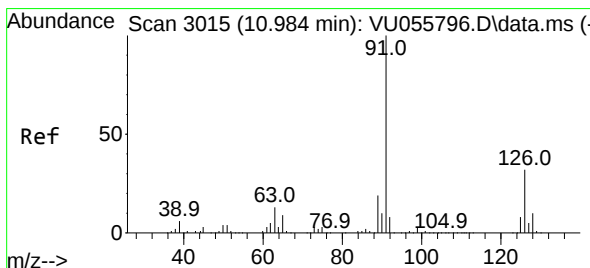
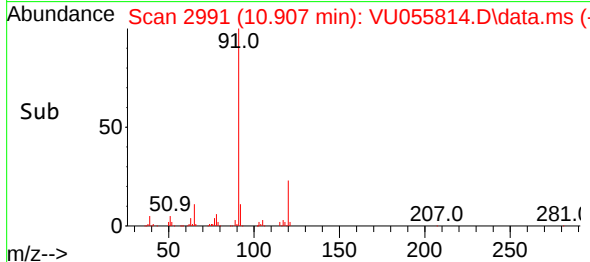
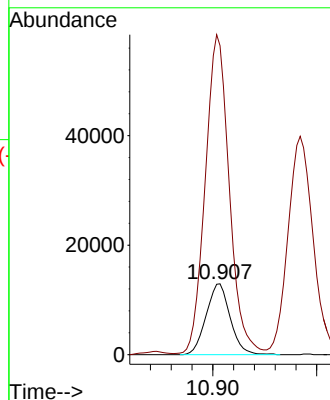
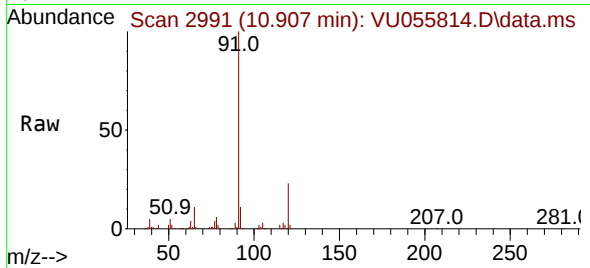
#73
n-propylbenzene
Concen: 0.662 ug/l
RT: 10.907 min Scan# 2991
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion:120 Resp: 2076
Ion Ratio Lower Upper
120 100
91 447.8 369.8 554.6

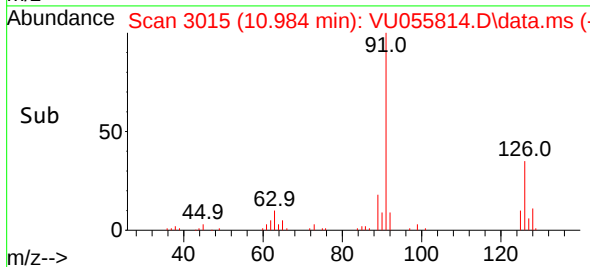
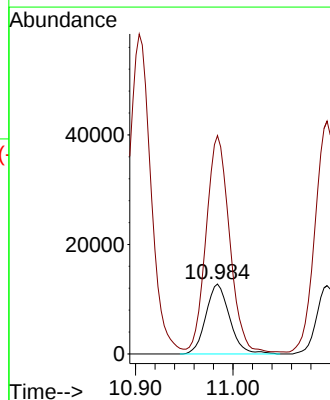
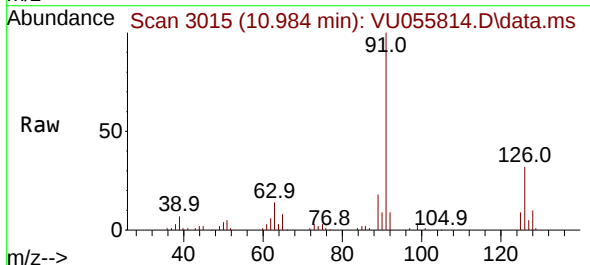
Manual Integrations
APPROVED

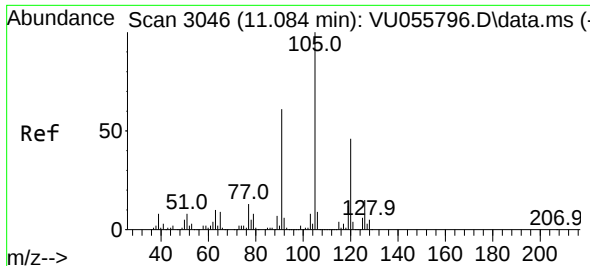
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#74
2-Chlorotoluene
Concen: 0.738 ug/l
RT: 10.984 min Scan# 3015
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion:126 Resp: 21530
Ion Ratio Lower Upper
126 100
91 307.4 0.0 610.0





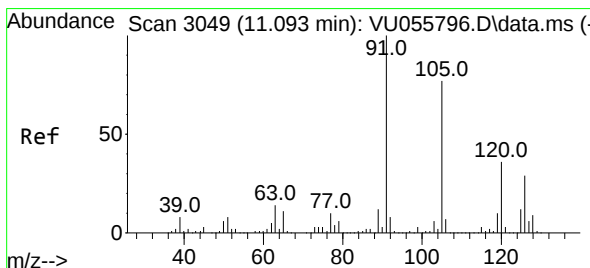
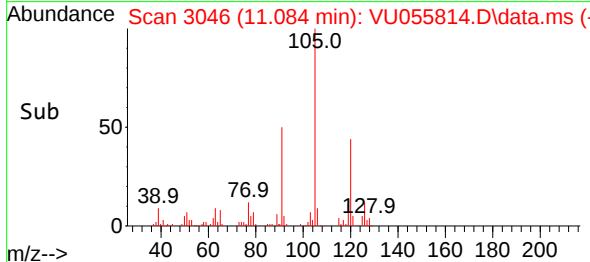
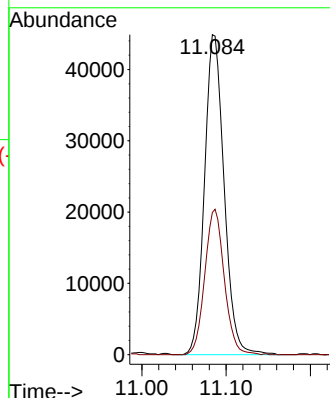
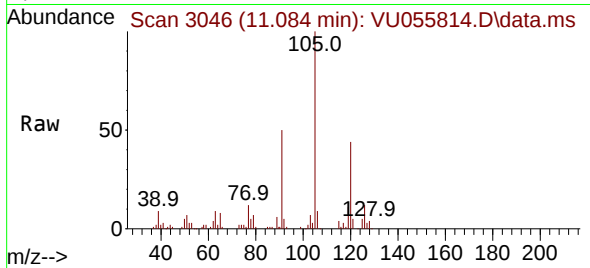
#75
1,3,5-Trimethylbenzene
Concen: 0.699 ug/l
RT: 11.084 min Scan# 3046
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023

Tgt Ion:105 Resp: 7272
Ion Ratio Lower Upper
105 100
120 45.2 37.8 56.8

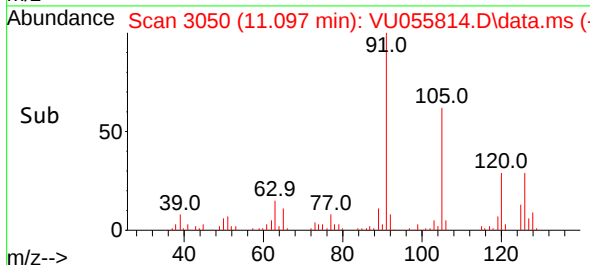
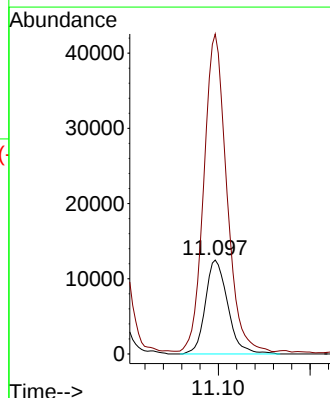
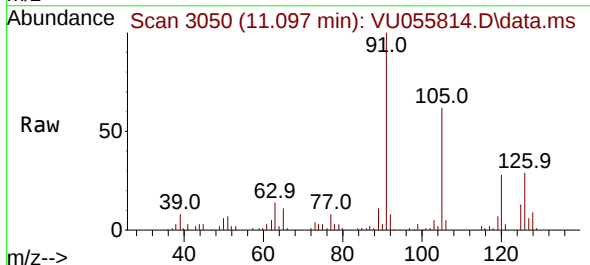
Manual Integrations
APPROVED

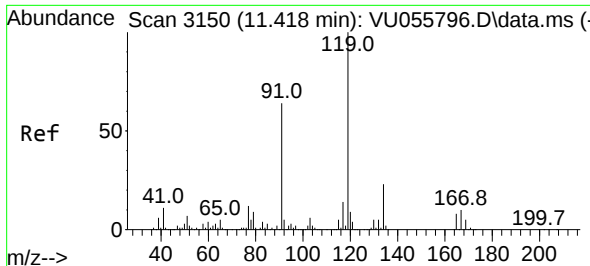
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#76
4-Chlorotoluene
Concen: 0.712 ug/l
RT: 11.097 min Scan# 3050
Delta R.T. 0.004 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Tgt Ion:126 Resp: 21163
Ion Ratio Lower Upper
126 100
91 344.1 0.0 686.2





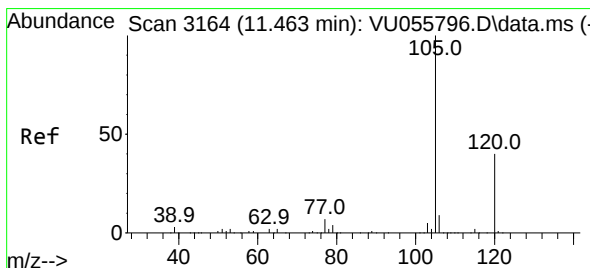
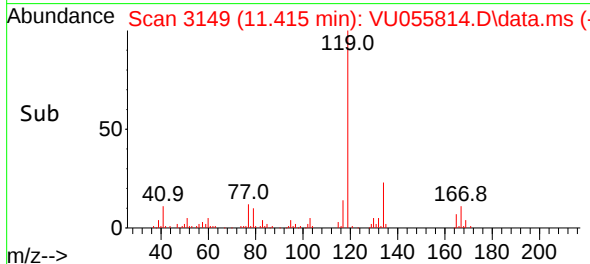
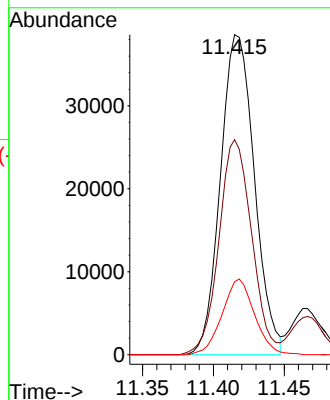
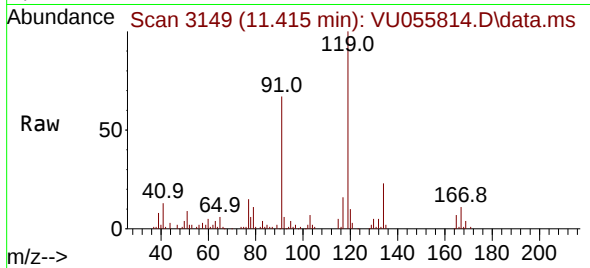
#77
tert-Butylbenzene
Concen: 0.675 ug/l
RT: 11.415 min Scan# 3149
Delta R.T. -0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023

Tgt Ion:119 Resp: 6440
Ion Ratio Lower Upper
119 100
91 64.9 30.8 92.4
134 22.6 18.0 27.0

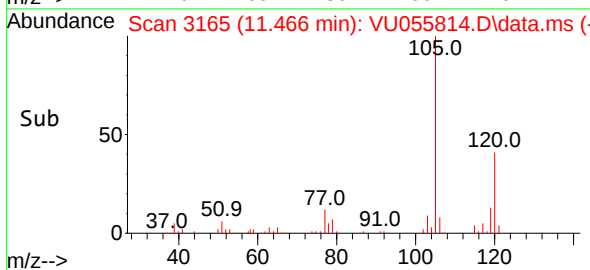
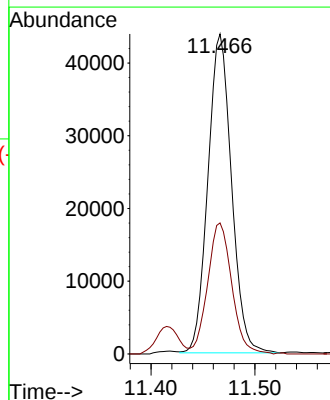
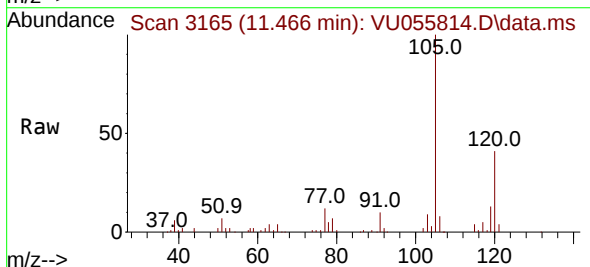
Manual Integrations
APPROVED

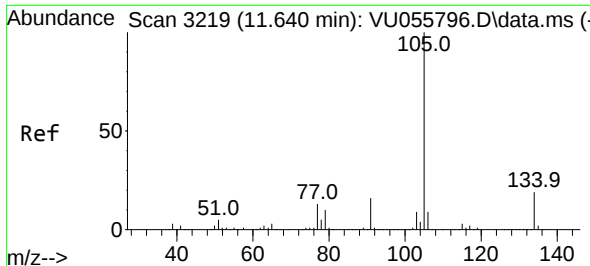
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#78
1,2,4-Trimethylbenzene
Concen: 0.670 ug/l
RT: 11.466 min Scan# 3165
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

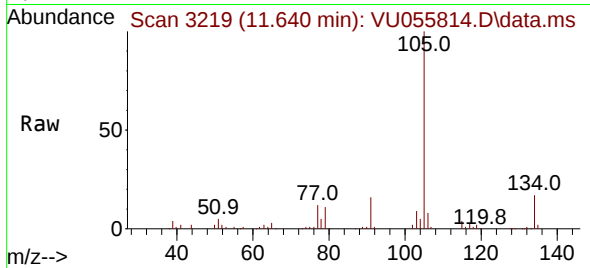
Tgt Ion:105 Resp: 69008
Ion Ratio Lower Upper
105 100
120 41.9 21.9 65.8





#79
 sec-Butylbenzene
 Concen: 0.632 ug/l
 RT: 11.640 min Scan# 311
 Delta R.T. -0.000 min
 Lab File: VU055814.D
 Acq: 19 Oct 2023 17:16

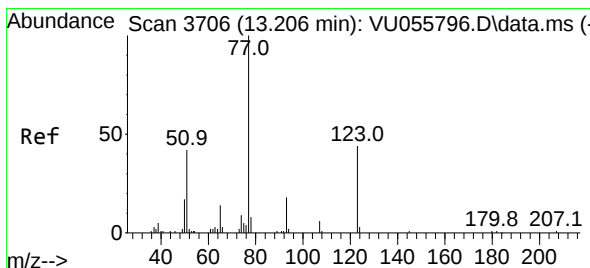
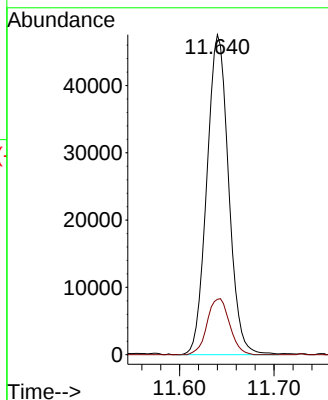
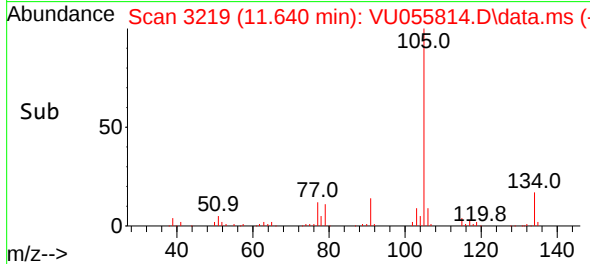
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023



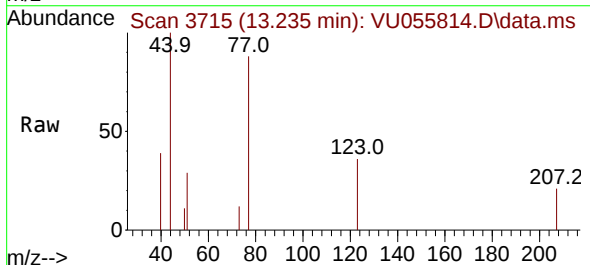
Tgt Ion:105 Resp: 76080
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.9 22.3

Manual Integrations
 APPROVED

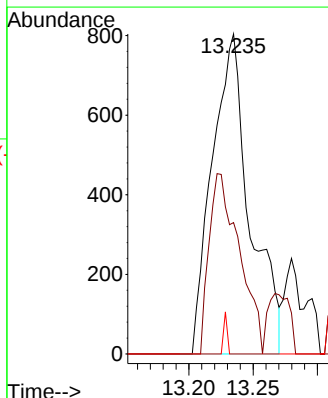
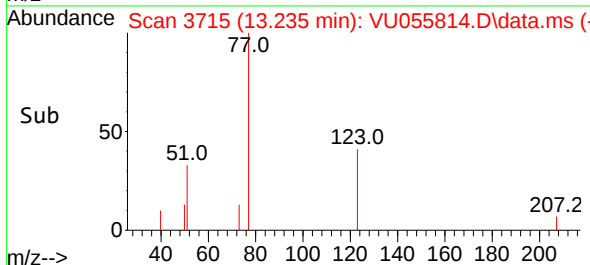
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023

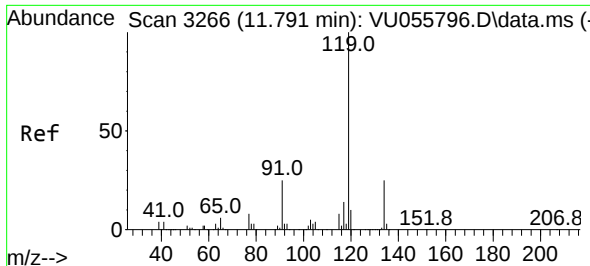


#80
 Nitrobenzene
 Concen: 2.640 ug/l m
 RT: 13.235 min Scan# 3715
 Delta R.T. 0.029 min
 Lab File: VU055814.D
 Acq: 19 Oct 2023 17:16



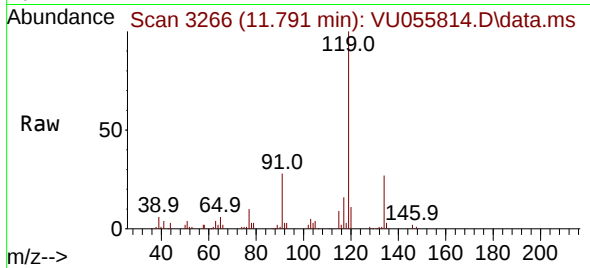
Tgt Ion: 77 Resp: 1635
 Ion Ratio Lower Upper
 77 100
 123 45.3 19.7 69.7
 65 1.2 11.5 14.7#





#81
p-Isopropyltoluene
Concen: 0.623 ug/l
RT: 11.791 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

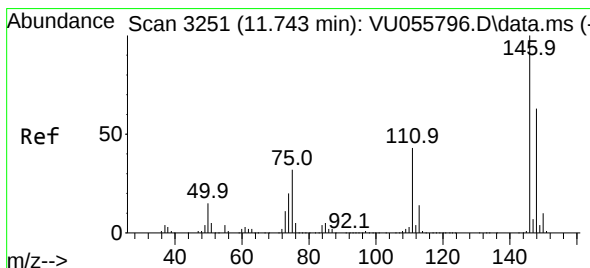
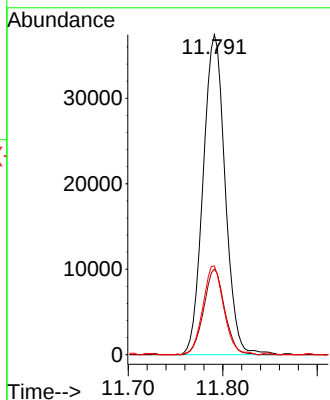
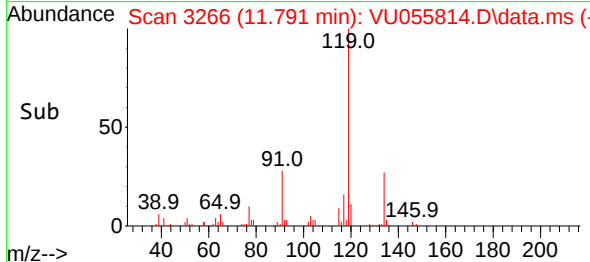
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



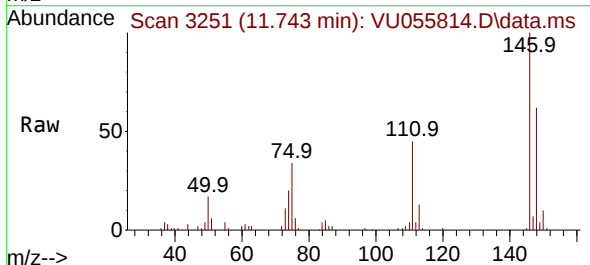
Tgt Ion:119 Resp: 60424
Ion Ratio Lower Upper
119 100
134 25.4 20.2 30.4
91 26.4 19.3 28.9

Manual Integrations
APPROVED

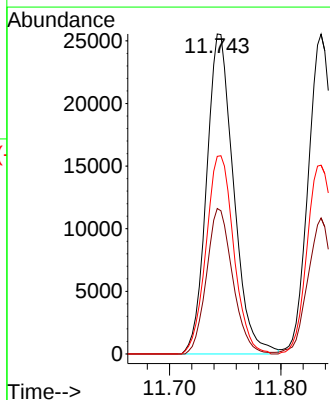
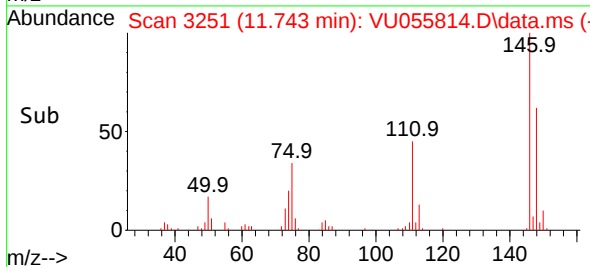
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

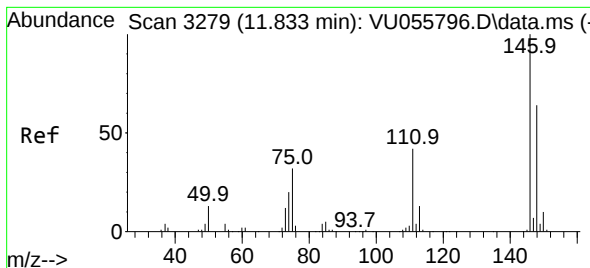


#82
1,3-Dichlorobenzene
Concen: 0.727 ug/l
RT: 11.743 min Scan# 3251
Delta R.T. -0.000 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



Tgt Ion:146 Resp: 43074
Ion Ratio Lower Upper
146 100
111 43.9 32.6 49.0
148 63.4 51.0 76.4





#83

1,4-Dichlorobenzene

Concen: 0.740 ug/l

RT: 11.836 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055814.D

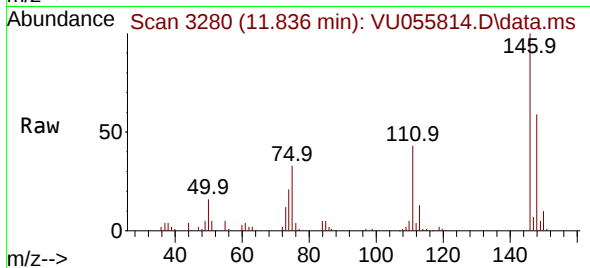
Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023



Tgt Ion:146 Resp: 4244

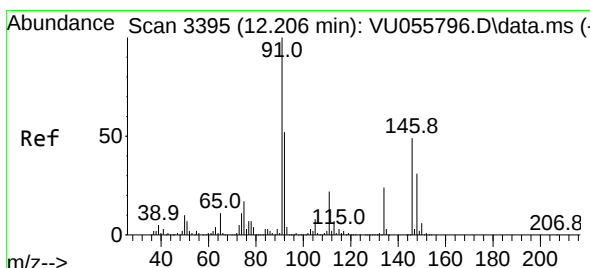
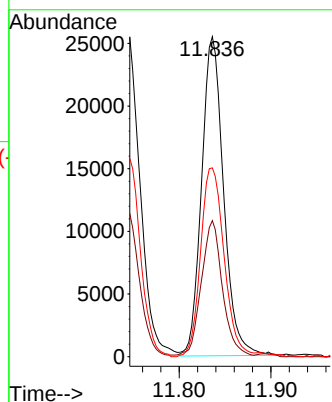
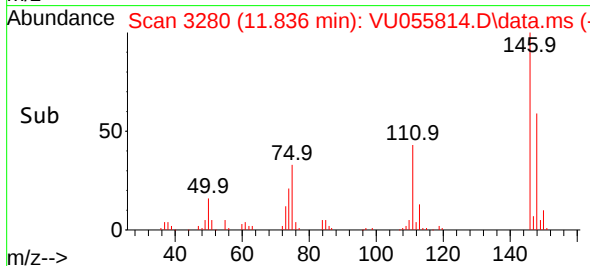
Ion	Ratio	Lower	Upper
146	100		
111	40.2	31.6	47.4
148	63.1	50.3	75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#84

n-Butylbenzene

Concen: 0.643 ug/l

RT: 12.206 min Scan# 3395

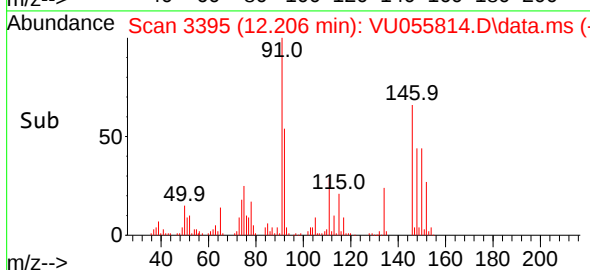
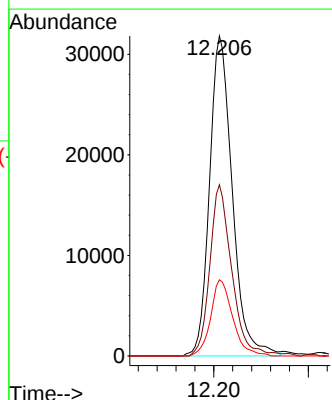
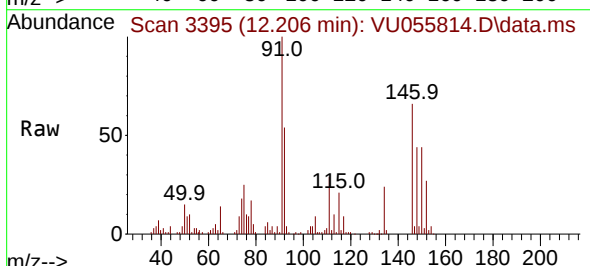
Delta R.T. -0.000 min

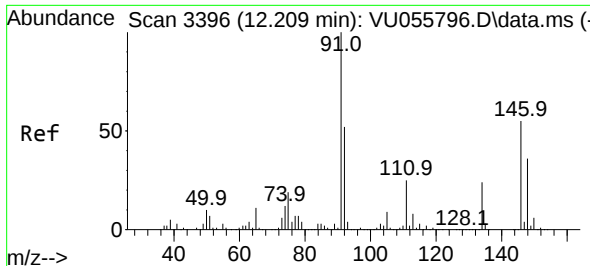
Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Tgt Ion: 91 Resp: 53136

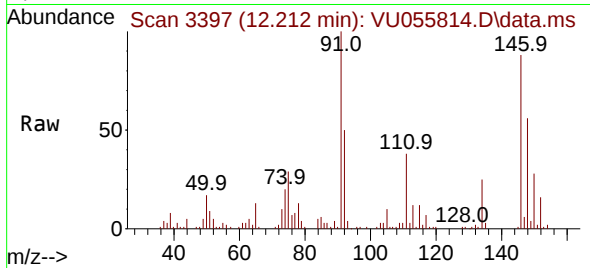
Ion	Ratio	Lower	Upper
91	100		
92	51.7	40.8	61.2
134	23.1	18.4	27.6





#85
1,2-Dichlorobenzene
Concen: 0.721 ug/l
RT: 12.212 min Scan# 3397
Delta R.T. 0.003 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16

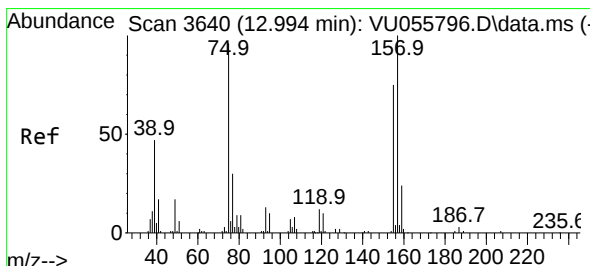
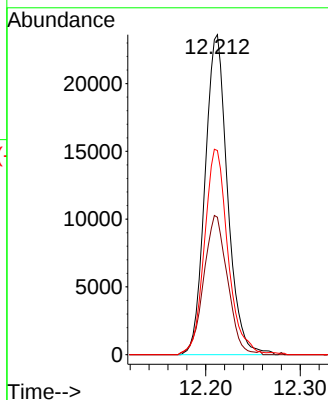
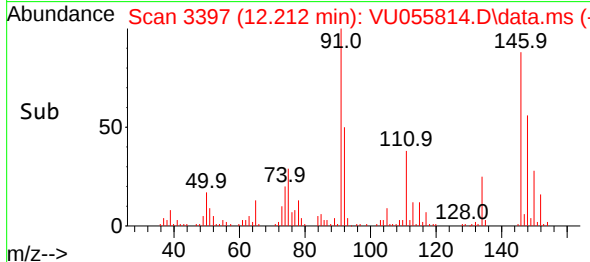
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



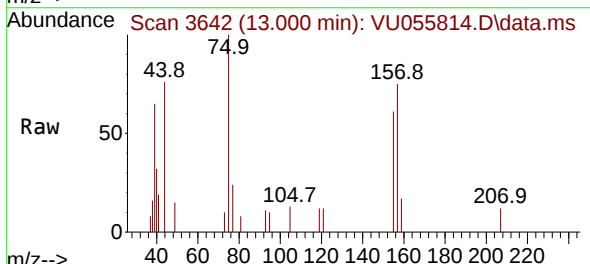
Tgt Ion:146 Resp: 3902
Ion Ratio Lower Upper
146 100
111 46.0 21.6 64.6
148 67.3 32.1 96.5

Manual Integrations
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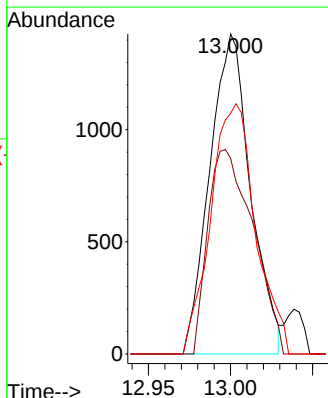
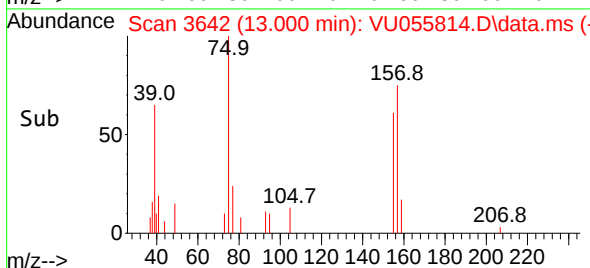
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

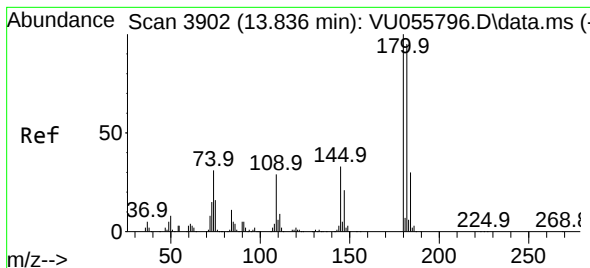


#86
1,2-Dibromo-3-Chloropropane
Concen: 0.737 ug/l
RT: 13.000 min Scan# 3642
Delta R.T. 0.006 min
Lab File: VU055814.D
Acq: 19 Oct 2023 17:16



Tgt Ion: 75 Resp: 2465
Ion Ratio Lower Upper
75 100
155 71.0 61.8 92.8
157 85.8 80.2 120.4





#87

1,2,4-Trichlorobenzene

Concen: 0.672 ug/l

RT: 13.842 min Scan# 3904

Delta R.T. 0.006 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

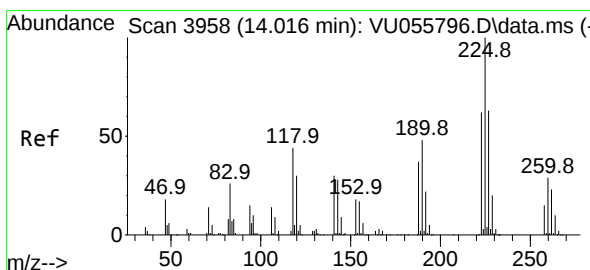
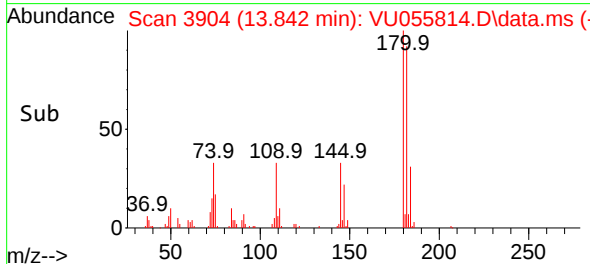
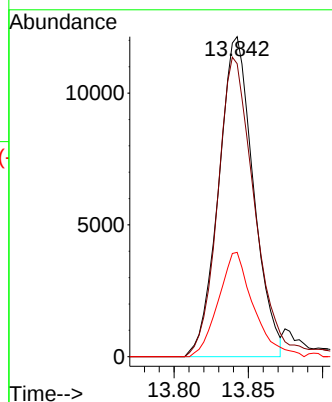
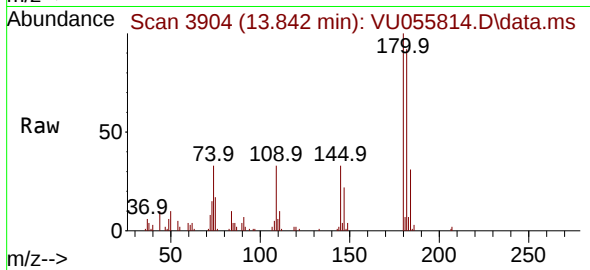
Tgt Ion:180	Resp:	1974
Ion Ratio	Lower	Upper
180	100	
182	99.8	75.8 113.6
145	32.9	23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#88

Hexachlorobutadiene

Concen: 0.696 ug/l

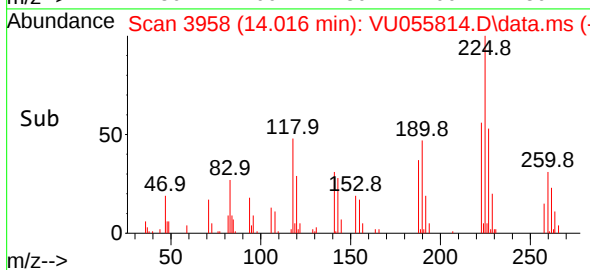
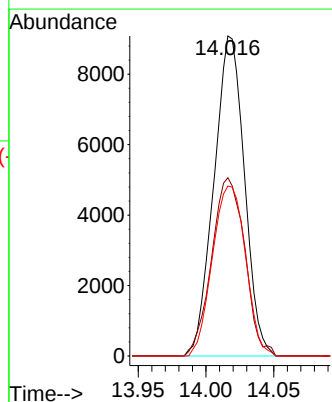
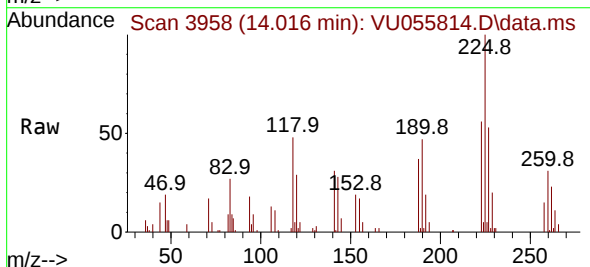
RT: 14.016 min Scan# 3958

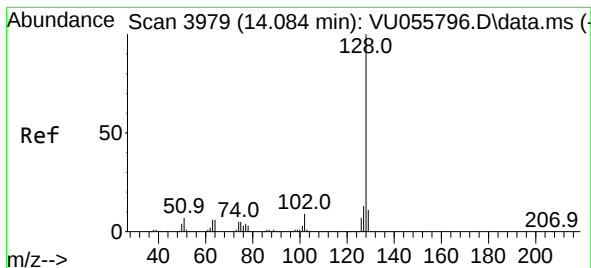
Delta R.T. 0.000 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Tgt Ion:225	Resp:	14213
Ion Ratio	Lower	Upper
225	100	
223	60.5	50.2 75.4
227	57.7	51.5 77.3





#89

Naphthalene

Concen: 0.698 ug/l

RT: 14.093 min Scan# 3979

Delta R.T. 0.009 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

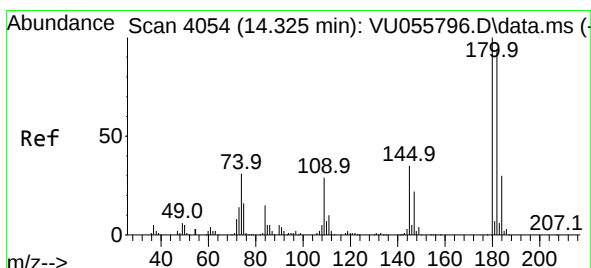
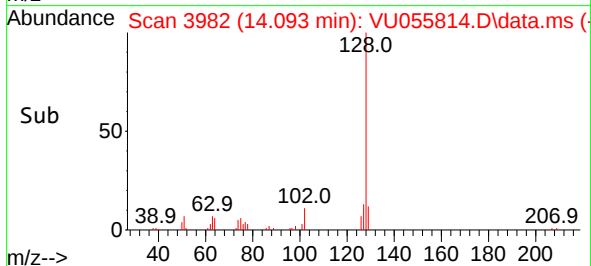
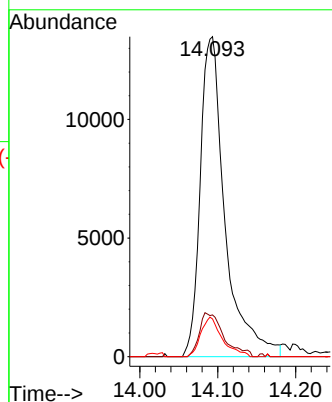
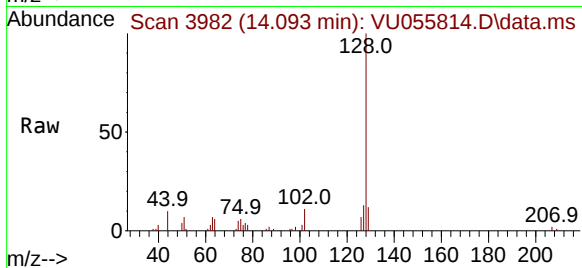
Tgt Ion:128	Resp:	29830
Ion Ratio	Lower	Upper
128	100	
127	13.4	10.9 16.3
129	10.7	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#90

1,2,3-Trichlorobenzene

Concen: 0.693 ug/l

RT: 14.328 min Scan# 4055

Delta R.T. 0.003 min

Lab File: VU055814.D

Acq: 19 Oct 2023 17:16

Tgt Ion:180	Resp:	17480
Ion Ratio	Lower	Upper
180	100	
182	101.5	75.7 113.5
145	38.9	26.1 39.1

