

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101923\
 Data File : VU055812.D
 Acq On : 19 Oct 2023 16:29
 Operator : MD/SY
 Sample : 04699-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Oct 20 02:00:50 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Fluorobenzene	6.113	96	94351	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	32839	0.882	ug/l	0.00
Spiked Amount 1.000			Recovery	=	88.000%	
68) 1,2-Dichlorobenzene-d4	12.193	152	29875	0.866	ug/l	0.00
Spiked Amount 1.000			Recovery	=	87.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	8493	0.271	ug/l	94
4) Vinyl Chloride	1.602	62	7650	0.238	ug/l	# 84
5) Bromomethane	1.856	94	5274	0.299	ug/l	89
6) Chloroethane	1.933	64	4502	0.290	ug/l	97
7) Trichlorofluoromethane	2.136	101	9590	0.227	ug/l	98
9) 1,1-Dichloroethene	2.576	96	5489	0.209	ug/l	93
11) Allyl Chloride	2.923	41	7847	0.229	ug/l	100
12) Acrylonitrile	3.345	53	2102m	0.425	ug/l	
13) Acetone	2.650	43	6767	0.641	ug/l	89
14) Carbon Disulfide	2.792	76	18462	0.215	ug/l	100
15) Methylene Chloride	3.039	84	8853	0.285	ug/l	95
16) trans-1,2-Dichloroethene	3.354	96	5940	0.213	ug/l	96
17) 1,1-Dichloroethane	3.865	63	11028	0.213	ug/l	97
18) 2-Butanone	4.740	43	8015m	0.705	ug/l	
20) Methylcyclohexane	6.756	83	9506	0.207	ug/l	95
22) cis-1,2-Dichloroethene	4.669	96	6314	0.212	ug/l	96
23) Diethyl Ether	2.374	59	3795	0.241	ug/l	93
24) tert-Butyl Alcohol	3.190	59	6547m	4.058	ug/l	
25) Methyl tert-Butyl Ether	3.357	73	11551	0.204	ug/l	# 88
27) Chloroform	5.084	83	11761	0.221	ug/l	99
29) 1,1-Dichloropropene	5.531	75	8006	0.212	ug/l	93
31) Isopropyl Ether	3.988	45	14383	0.206	ug/l	93
34) Propionitrile	4.830	54	931m	0.518	ug/l	
36) 1,2-Dichloroethane	5.798	62	6958	0.224	ug/l	97
37) Trichloroethene	6.544	130	6635	0.223	ug/l	88
38) 1,2-Dichloropropane	6.795	63	5989	0.200	ug/l	100
39) Methacrylonitrile	5.007	41	1507m	0.225	ug/l	
40) Methyl acrylate	4.894	55	2414m	0.224	ug/l	
41) Tetrahydrofuran	5.078	42	1949m	0.513	ug/l	
43) Dibromomethane	6.920	93	2887	0.203	ug/l	91
44) Bromodichloromethane	7.103	83	8084	0.215	ug/l	97
45) 4-Methyl-2-Pentanone	7.795	43	14539	0.990	ug/l	96
46) t-1,4-Dichloro-2-butene	10.836	75	1748m	0.299	ug/l	
47) Methyl methacrylate	6.971	69	3986	0.340	ug/l	# 86
52) 1,1,2-Trichloroethane	8.399	97	4294	0.212	ug/l	93
53) 1,3-Dichloropropane	8.573	76	7454	0.215	ug/l	93
54) 2-Hexanone	8.695	43	12617	0.766	ug/l	99
55) Dibromochloromethane	8.807	129	4919	0.201	ug/l	99
56) 1,2-Dibromoethane	8.923	107	4140	0.223	ug/l	95
58) Tetrachloroethene	8.550	164	6830	0.221	ug/l	93
59) Chlorobenzene	9.450	112	15795	0.211	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.534	131	5481	0.206	ug/l	95
61) Pentachloroethane	11.421	117	3624	0.201	ug/l	97

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

63) Ethyl Benzene	9.573	91	25959	0.204	ug/l	97
64) m/p-Xylenes	9.695	106	18297	0.375	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.782	83	4930	0.208	ug/l #	98
72) Bromobenzene	10.785	156	6288	0.214	ug/l	89
74) 2-Chlorotoluene	10.984	126	6231	0.211	ug/l	99
78) 1,2,4-Trimethylbenzene	11.466	105	21019	0.201	ug/l	95
79) sec-Butylbenzene	11.640	105	27835	0.228	ug/l	99
80) Nitrobenzene	13.225	77	1081m	1.722	ug/l	
81) p-Isopropyltoluene	11.791	119	23259	0.237	ug/l	96
82) 1,3-Dichlorobenzene	11.746	146	13106	0.218	ug/l	94
83) 1,4-Dichlorobenzene	11.839	146	12789	0.220	ug/l	96
84) n-Butylbenzene	12.209	91	26615	0.318	ug/l	98
85) 1,2-Dichlorobenzene	12.212	146	12935	0.236	ug/l	93
86) 1,2-Dibromo-3-Chloropr...	13.007	75	678m	0.200	ug/l	
87) 1,2,4-Trichlorobenzene	13.843	180	10230	0.343	ug/l	99
88) Hexachlorobutadiene	14.016	225	5614	0.271	ug/l	90
89) Naphthalene	14.093	128	15809	0.365	ug/l #	87
90) 1,2,3-Trichlorobenzene	14.331	180	8811	0.345	ug/l	93

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

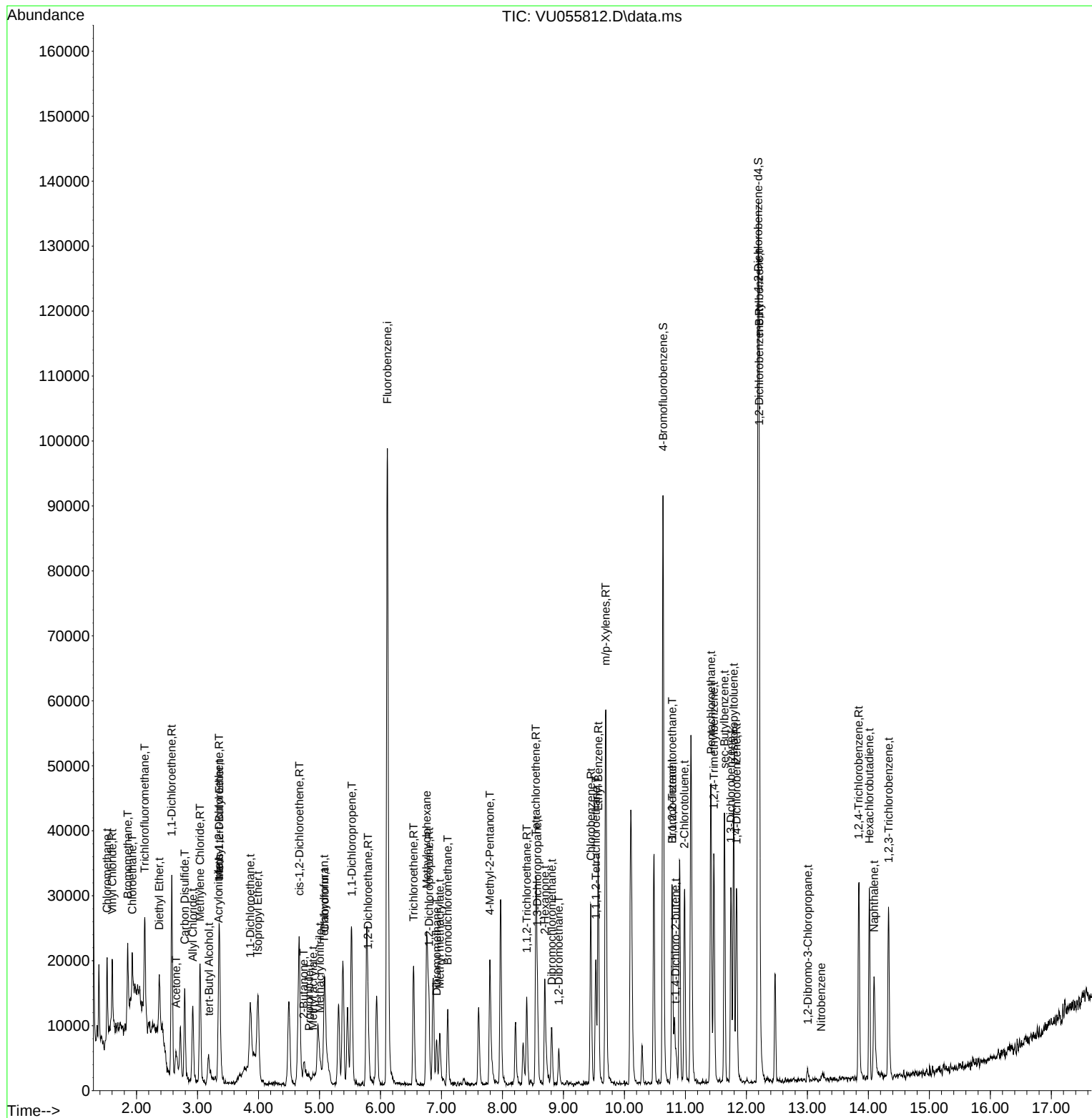
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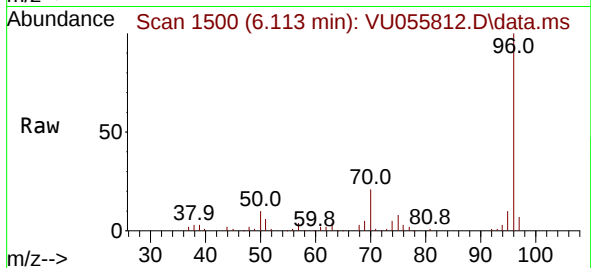
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023





#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

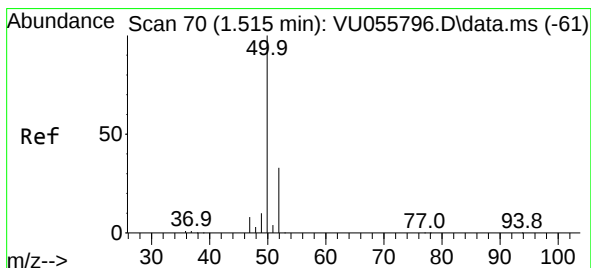
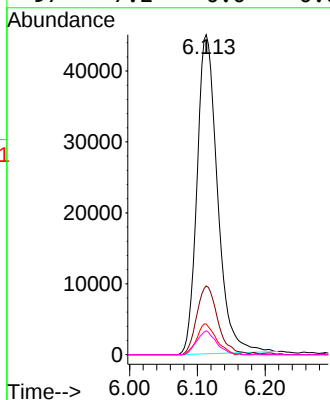
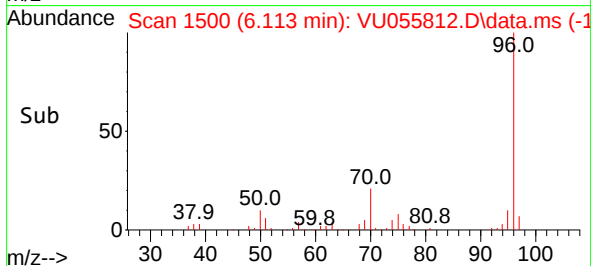
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 96 Resp: 9435
Ion Ratio Lower Upper
96 100
70 21.5 16.5 24.7
95 9.1 7.4 11.0
97 7.2 0.0 0.0#

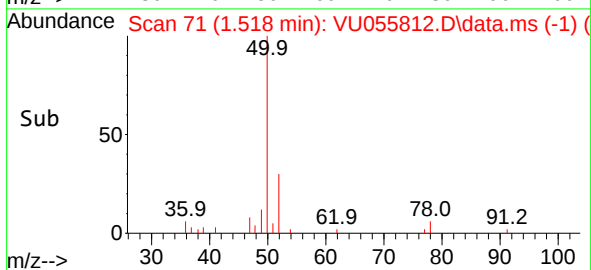
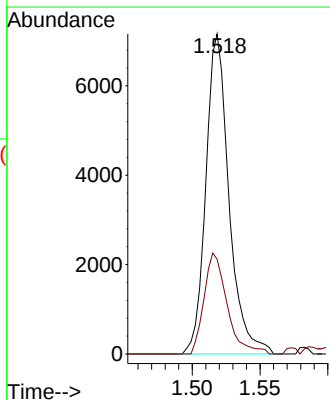
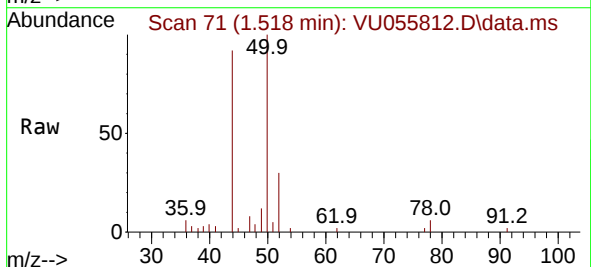
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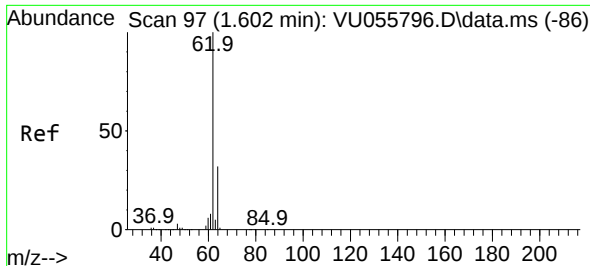
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#3
Chloromethane
Concen: 0.271 ug/l
RT: 1.518 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion: 50 Resp: 8493
Ion Ratio Lower Upper
50 100
52 29.6 26.6 40.0





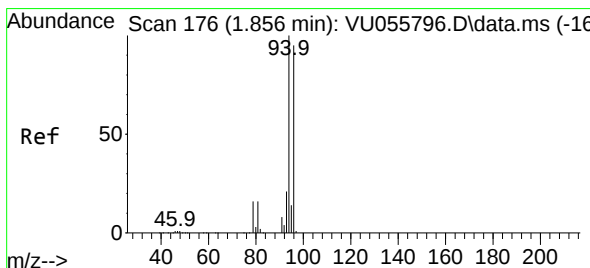
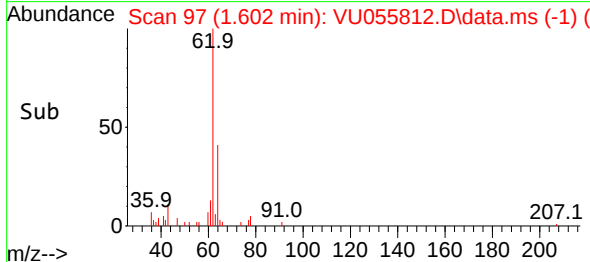
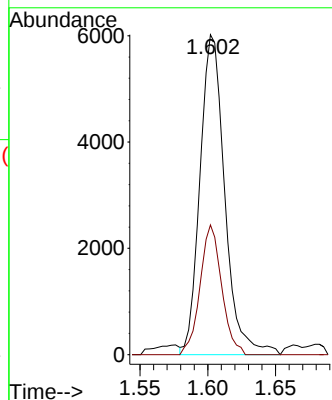
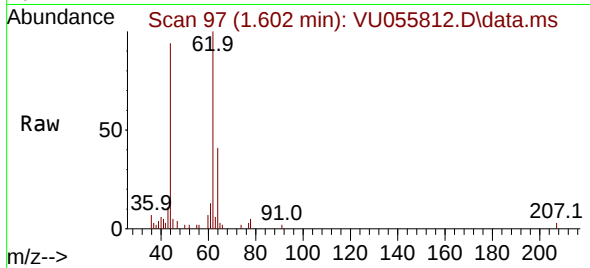
#4
 Vinyl Chloride
 Concen: 0.238 ug/l
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055812.D
 Acq: 19 Oct 2023 16:29

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

Tgt Ion: 62 Resp: 7650
 Ion Ratio Lower Upper
 62 100
 64 40.5 25.4 38.2

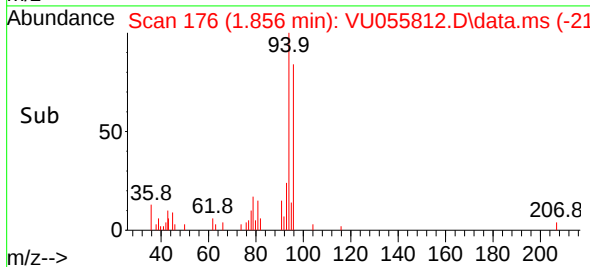
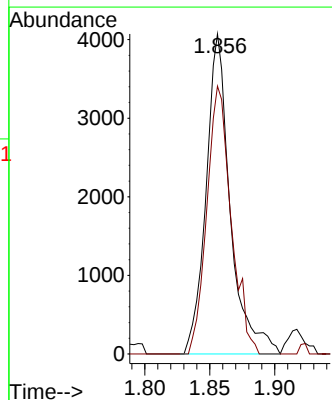
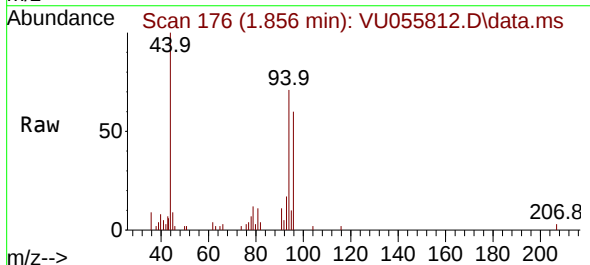
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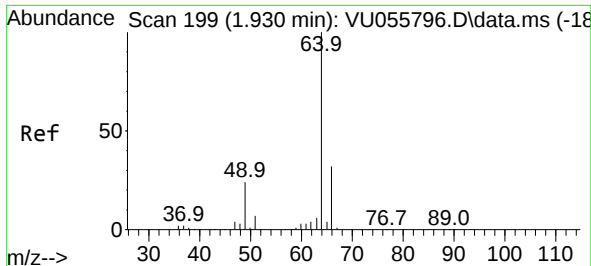
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023



#5
 Bromomethane
 Concen: 0.299 ug/l
 RT: 1.856 min Scan# 176
 Delta R.T. -0.000 min
 Lab File: VU055812.D
 Acq: 19 Oct 2023 16:29

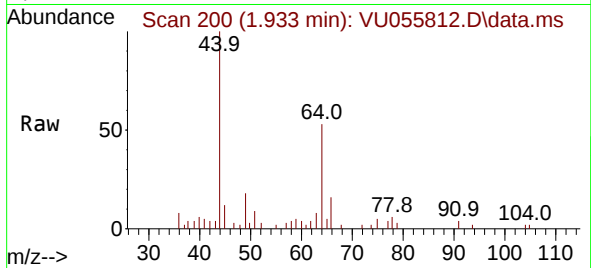
Tgt Ion: 94 Resp: 5274
 Ion Ratio Lower Upper
 94 100
 96 83.7 75.4 113.2





#6
Chloroethane
Concen: 0.290 ug/l
RT: 1.933 min Scan# 200
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

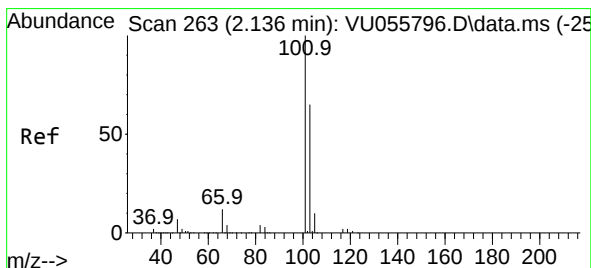
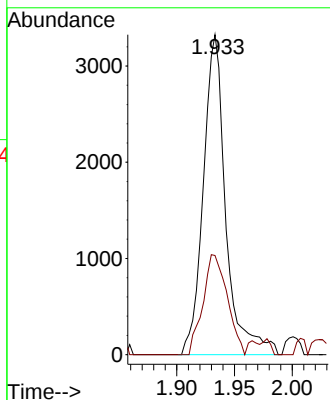
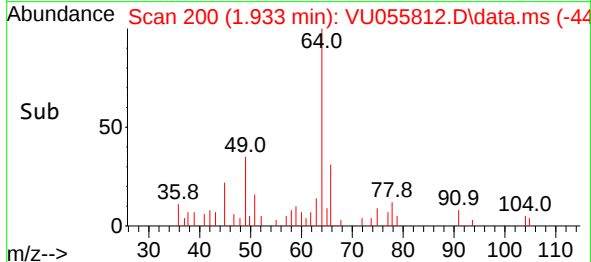
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 64 Resp: 4502
Ion Ratio Lower Upper
64 100
66 31.0 26.0 39.0

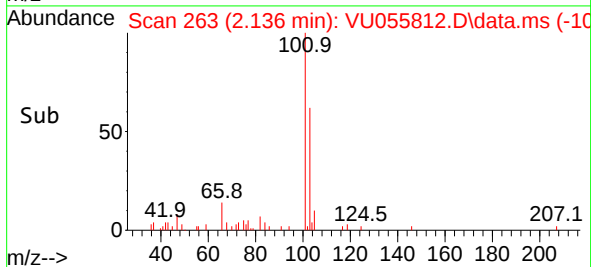
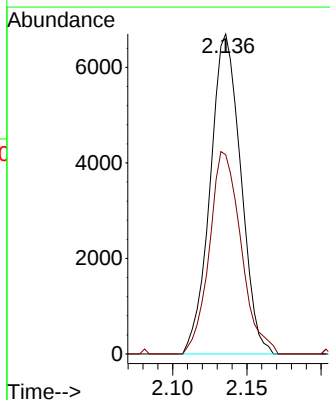
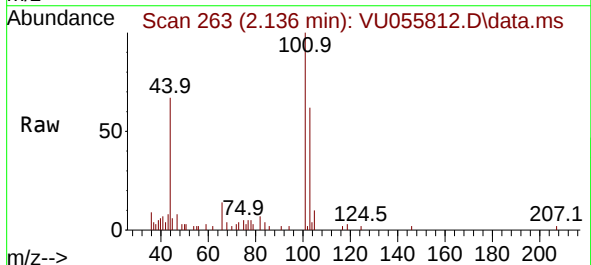
Manual Integrations
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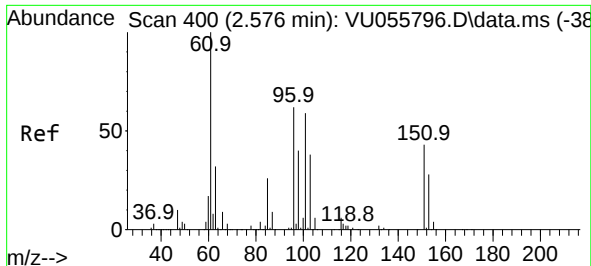
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#7
Trichlorofluoromethane
Concen: 0.227 ug/l
RT: 2.136 min Scan# 263
Delta R.T. -0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion:101 Resp: 9590
Ion Ratio Lower Upper
101 100
103 62.3 51.4 77.0





#9

1,1-Dichloroethene

Concen: 0.209 ug/l

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

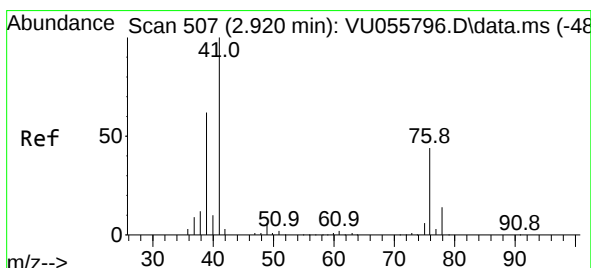
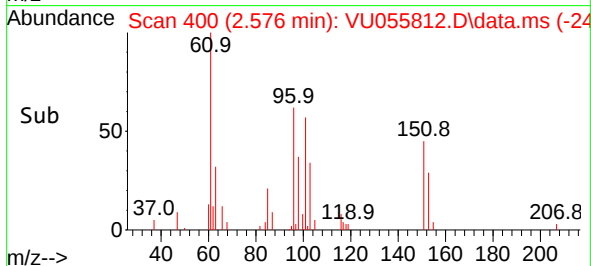
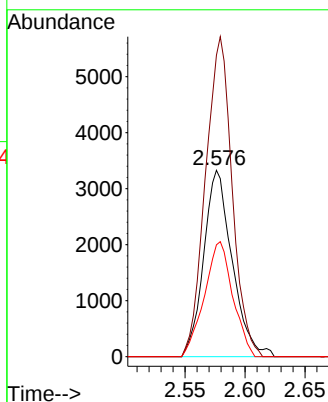
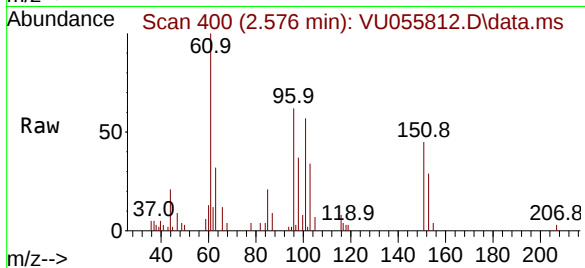
Tgt Ion: 96	Resp: 5489
Ion Ratio	Lower Upper
96 100	
61 161.7	0.0 521.4
98 60.0	0.0 125.8

Manual Integrations

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Supervised By :Mahesh Dadoda 10/25/2023



#11

Allyl Chloride

Concen: 0.229 ug/l

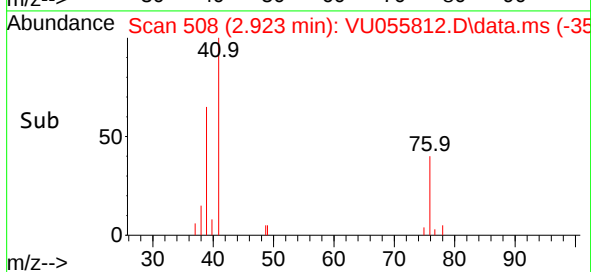
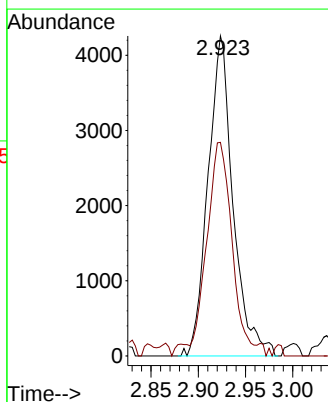
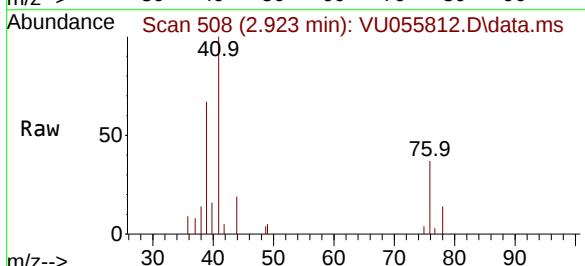
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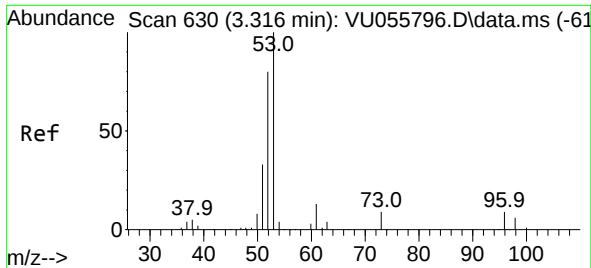
Delta R.T. 0.003 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Tgt Ion: 41	Resp: 7847
Ion Ratio	Lower Upper
41 100	
39 67.6	54.2 81.2





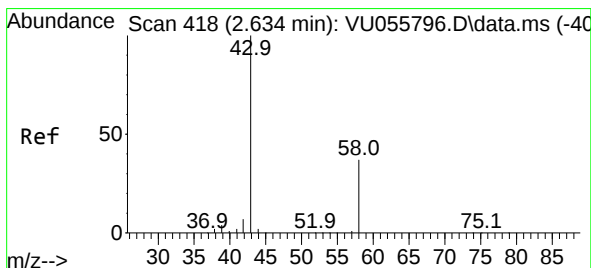
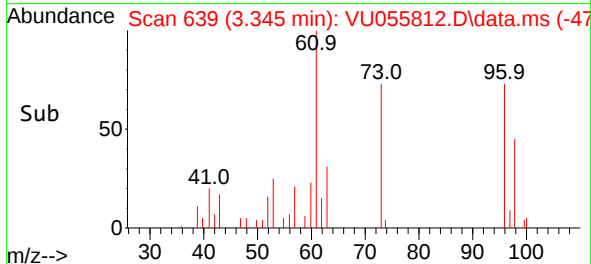
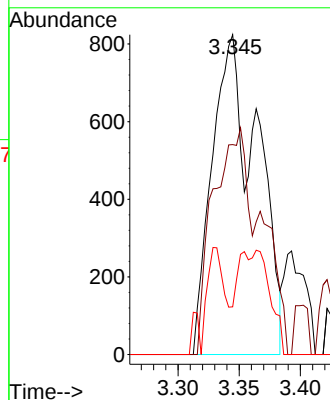
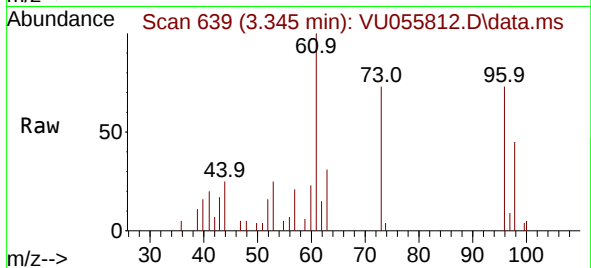
#12
Acrylonitrile
Concen: 0.425 ug/l m
RT: 3.345 min Scan# 612
Delta R.T. 0.029 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion: 53 Resp: 210
Ion Ratio Lower Upper
53 100
52 55.0 62.9 94.3
51 12.7 27.8 41.6

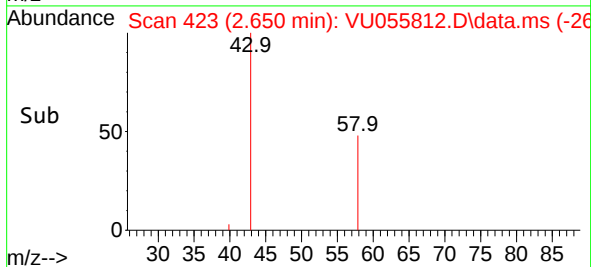
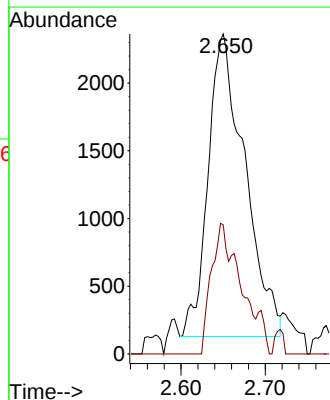
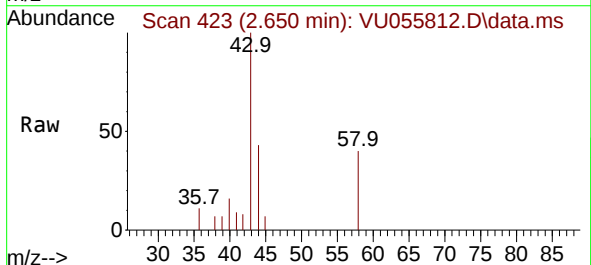
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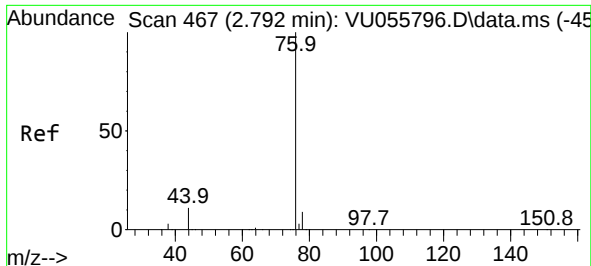
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#13
Acetone
Concen: 0.641 ug/l
RT: 2.650 min Scan# 423
Delta R.T. 0.016 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

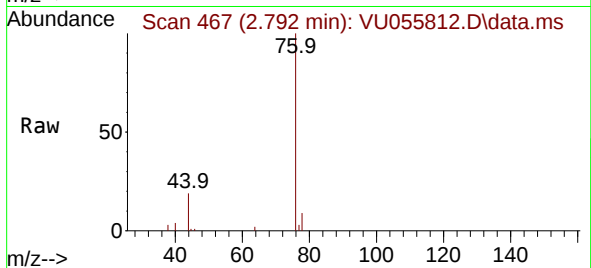
Tgt Ion: 43 Resp: 6767
Ion Ratio Lower Upper
43 100
58 42.7 29.0 43.4





#14
Carbon Disulfide
Concen: 0.215 ug/l
RT: 2.792 min Scan# 467
Delta R.T. -0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

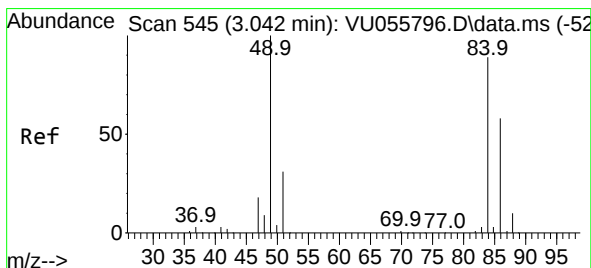
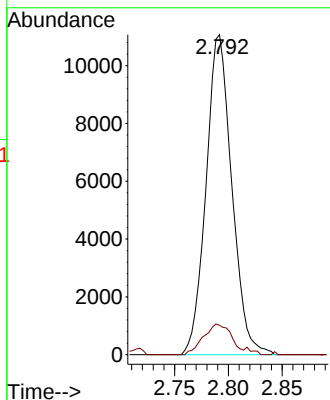
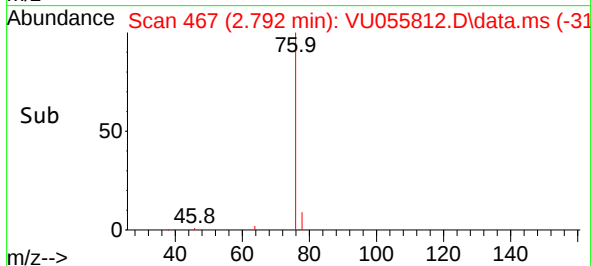
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



Tgt Ion: 76 Resp: 1846
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0

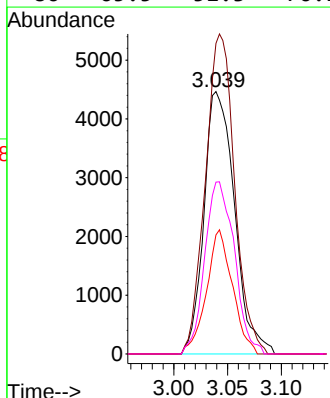
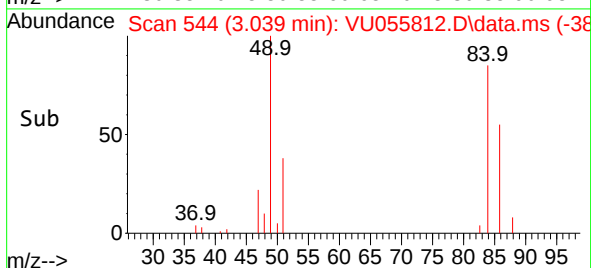
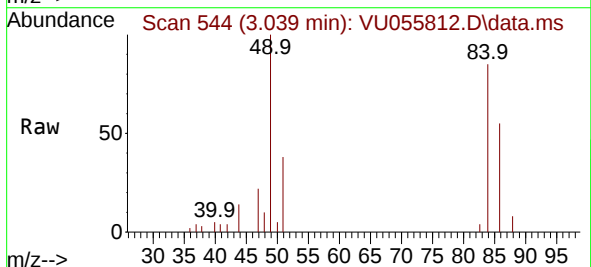
Manual Integrations
APPROVED

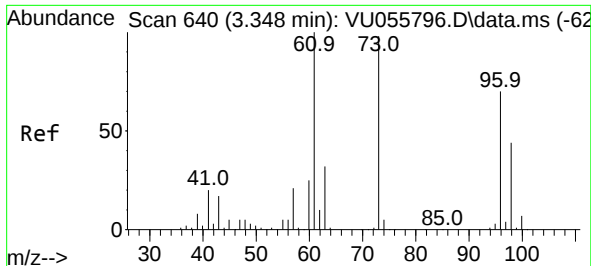
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#15
Methylene Chloride
Concen: 0.285 ug/l
RT: 3.039 min Scan# 544
Delta R.T. -0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

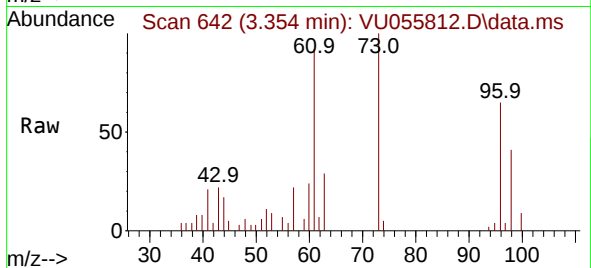
Tgt Ion: 84 Resp: 8853
Ion Ratio Lower Upper
84 100
49 118.3 98.9 148.3
51 45.4 0.0 75.4
86 65.5 51.3 76.9





#16
trans-1,2-Dichloroethene
Concen: 0.213 ug/l
RT: 3.354 min Scan# 640
Delta R.T. 0.006 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

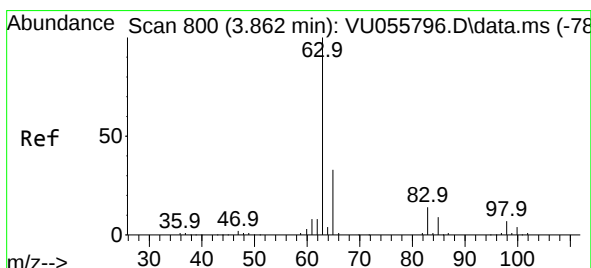
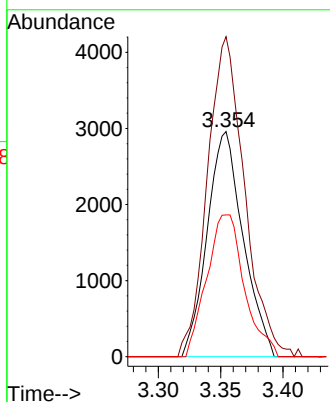
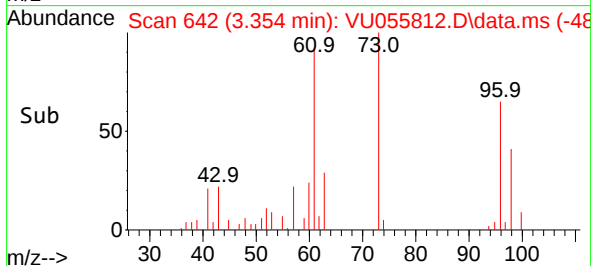
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 96 Resp: 5940
Ion Ratio Lower Upper
96 100
61 142.1 117.5 176.3
98 63.0 48.3 72.5

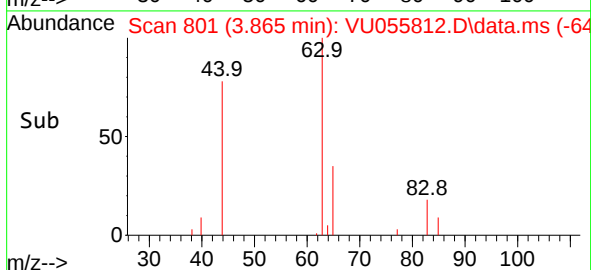
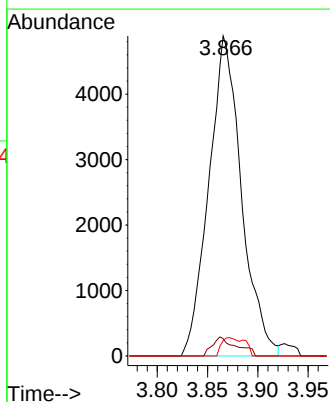
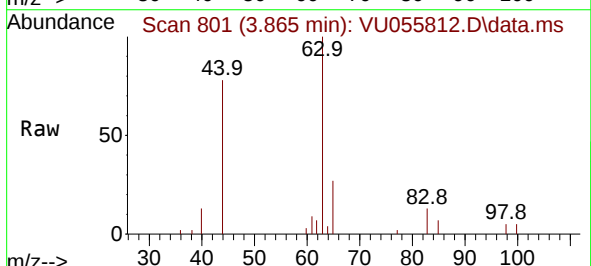
Manual Integrations
APPROVED

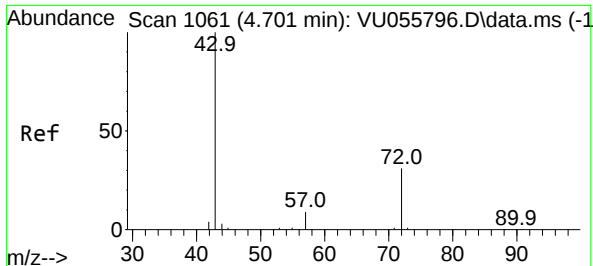
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#17
1,1-Dichloroethane
Concen: 0.213 ug/l
RT: 3.865 min Scan# 801
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion: 63 Resp: 11028
Ion Ratio Lower Upper
63 100
98 5.4 3.4 10.1
100 4.7 2.2 6.6





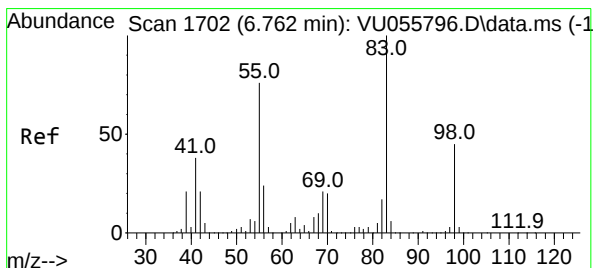
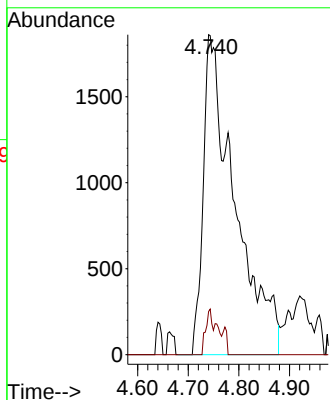
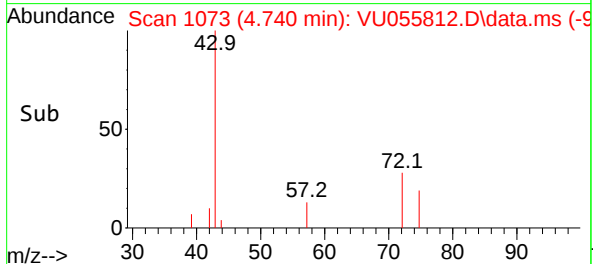
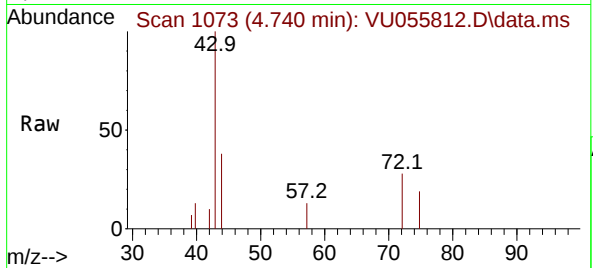
#18
2-Butanone
Concen: 0.705 ug/l m
RT: 4.740 min Scan# 1061
Delta R.T. 0.039 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
57 13.5 0.0 19.6

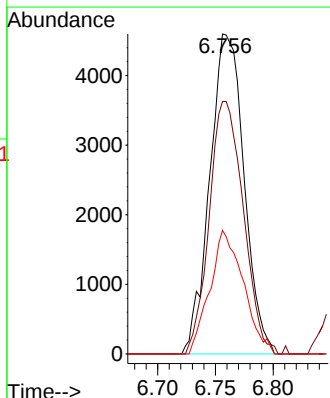
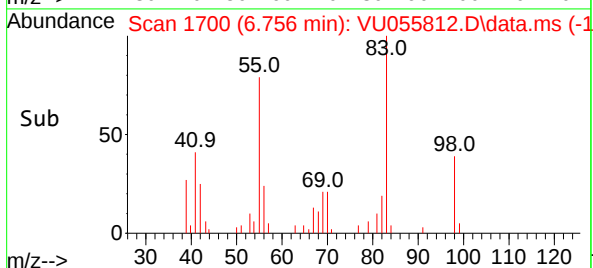
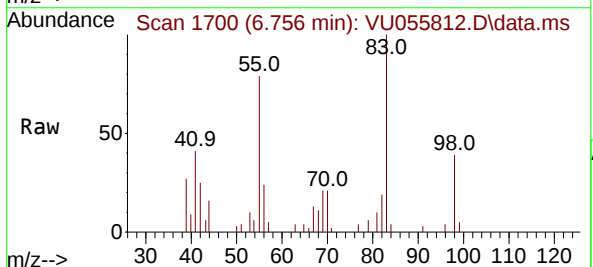
Manual Integrations
APPROVED

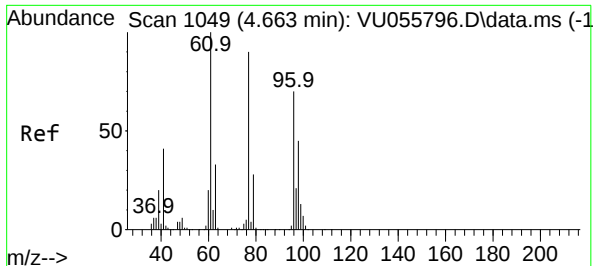
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#20
Methylcyclohexane
Concen: 0.207 ug/l
RT: 6.756 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

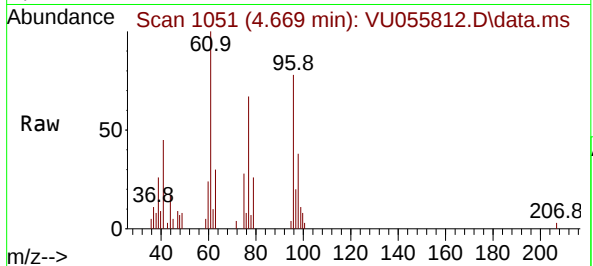
Tgt Ion: 83 Resp: 9506
Ion Ratio Lower Upper
83 100
55 78.3 63.5 95.3
98 37.7 36.0 54.0





#22
cis-1,2-Dichloroethene
Concen: 0.212 ug/l
RT: 4.669 min Scan# 1049
Delta R.T. 0.006 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

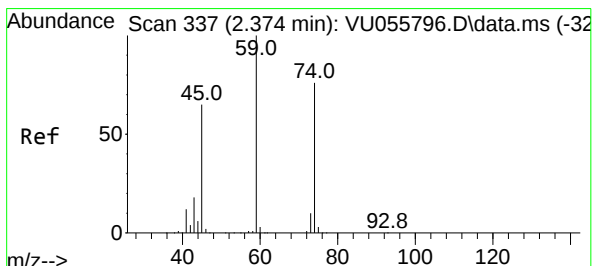
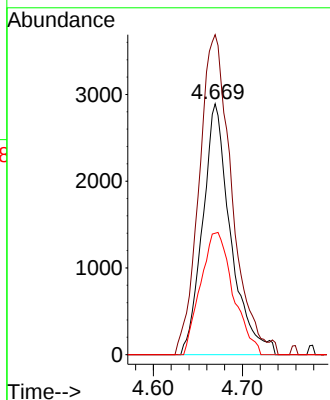
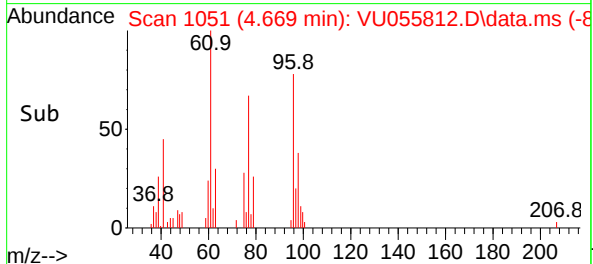
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



Tgt Ion: 96 Resp: 6314
Ion Ratio Lower Upper
96 100
61 149.2 0.0 365.8
98 56.7 32.0 96.0

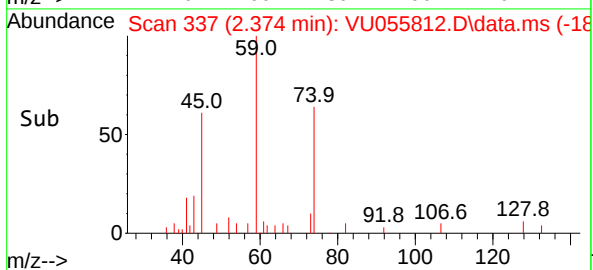
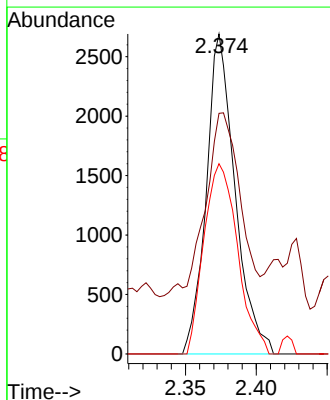
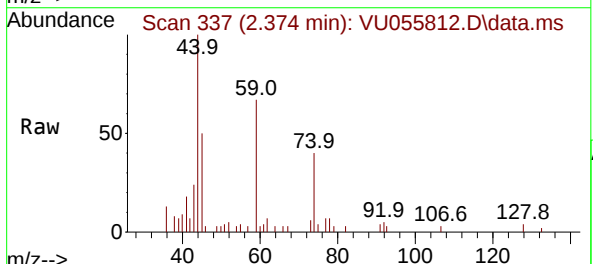
Manual Integrations
APPROVED

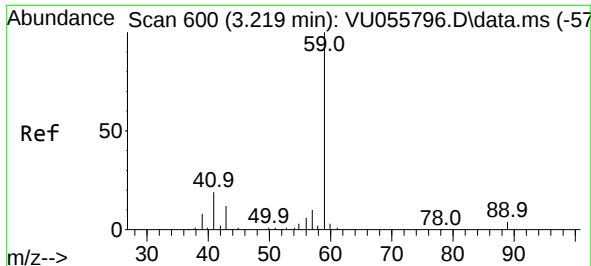
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#23
Diethyl Ether
Concen: 0.241 ug/l
RT: 2.374 min Scan# 337
Delta R.T. -0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

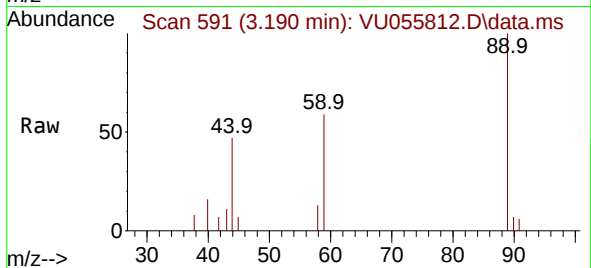
Tgt Ion: 59 Resp: 3795
Ion Ratio Lower Upper
59 100
45 60.6 56.1 84.1
74 69.7 57.4 86.2





#24
tert-Butyl Alcohol
Concen: 4.058 ug/l m
RT: 3.190 min Scan# 591
Delta R.T. -0.029 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

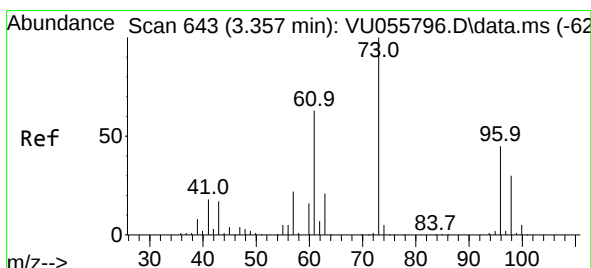
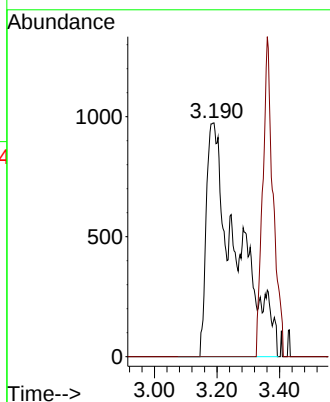
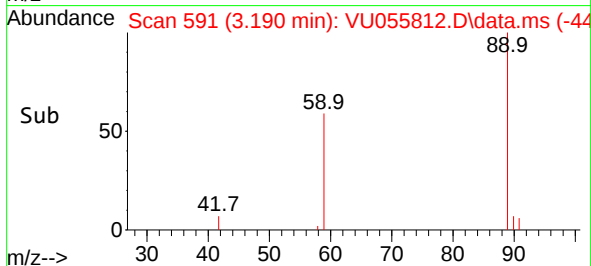
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 59 Resp: 654
Ion Ratio Lower Upper
59 100
57 0.0 105.6 158.4

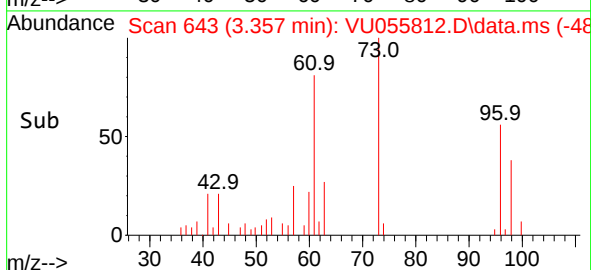
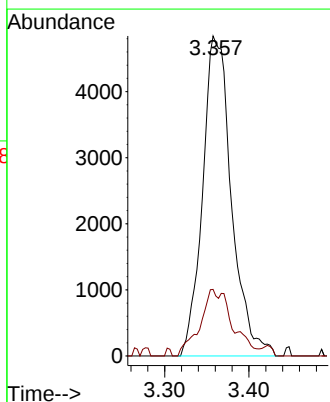
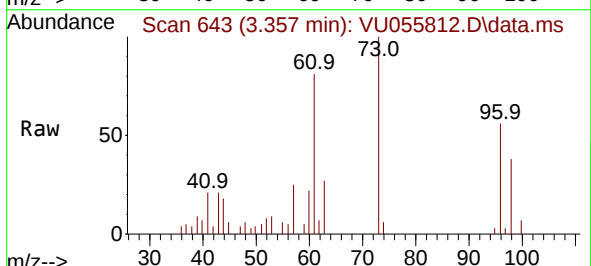
Manual Integrations
APPROVED

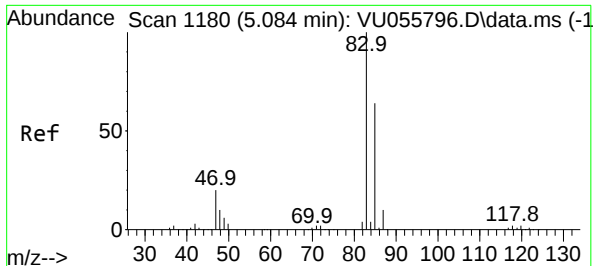
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#25
Methyl tert-Butyl Ether
Concen: 0.204 ug/l
RT: 3.357 min Scan# 643
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion: 73 Resp: 11551
Ion Ratio Lower Upper
73 100
43 13.3 15.0 22.6#





#27

Chloroform

Concen: 0.221 ug/l

RT: 5.084 min Scan# 1176

Delta R.T. 0.000 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 83 Resp: 1176

Ion Ratio Lower Upper

83 100

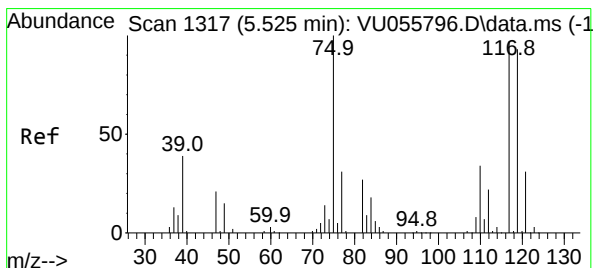
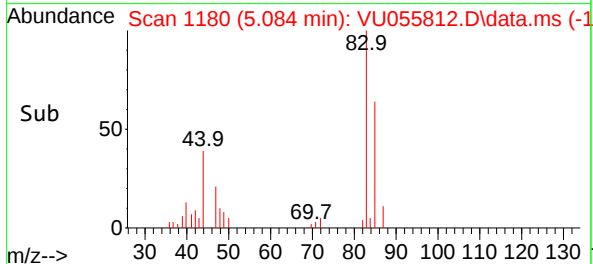
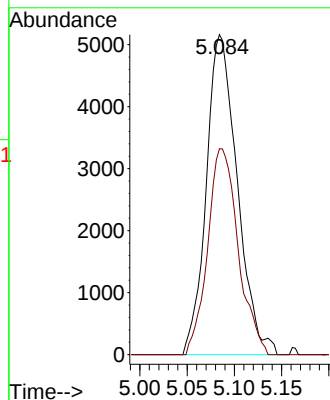
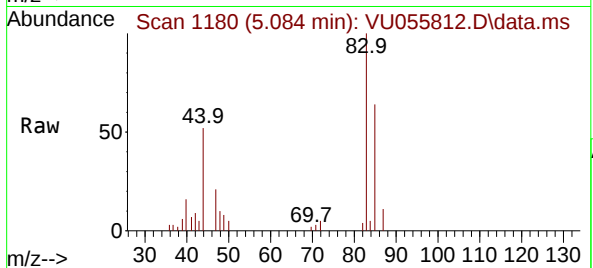
85 64.4 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#29

1,1-Dichloropropene

Concen: 0.212 ug/l

RT: 5.531 min Scan# 1319

Delta R.T. 0.006 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

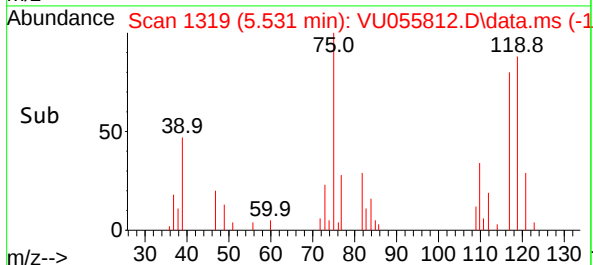
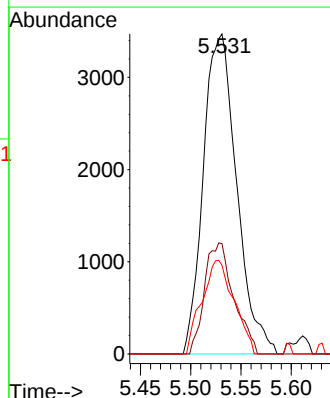
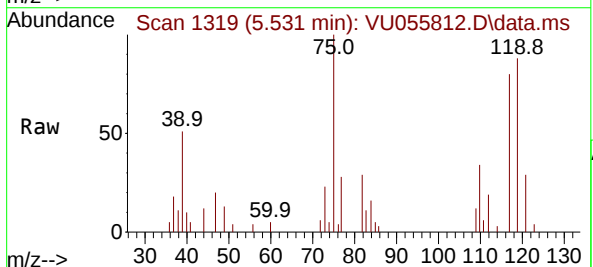
Tgt Ion: 75 Resp: 8006

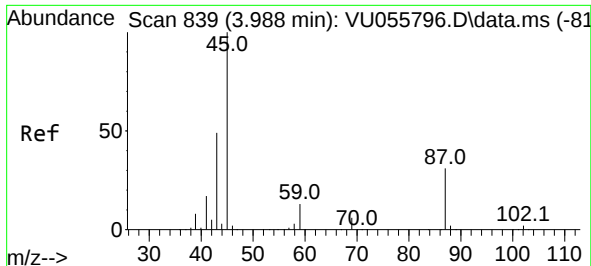
Ion Ratio Lower Upper

75 100

110 30.4 18.0 54.0

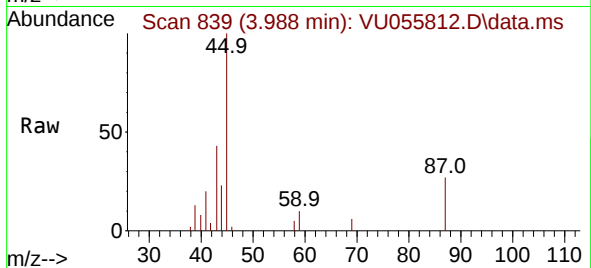
77 28.2 24.7 37.1





#31
Isopropyl Ether
Concen: 0.206 ug/l
RT: 3.988 min Scan# 81
Delta R.T. -0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

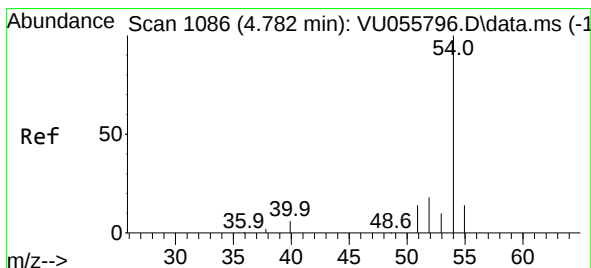
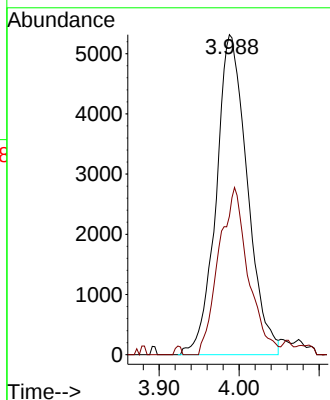
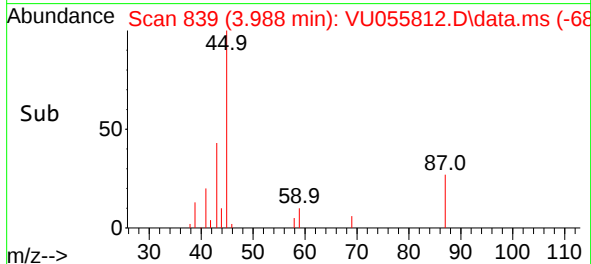
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



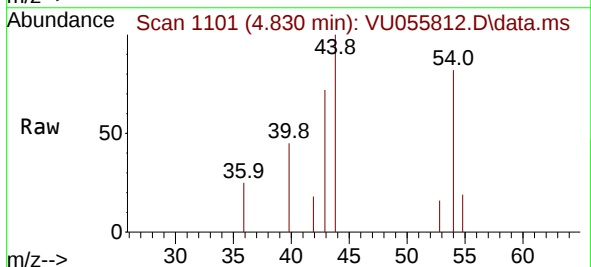
Tgt Ion: 45 Resp: 1438
Ion Ratio Lower Upper
45 100
43 49.8 27.5 82.5

Manual Integrations
APPROVED

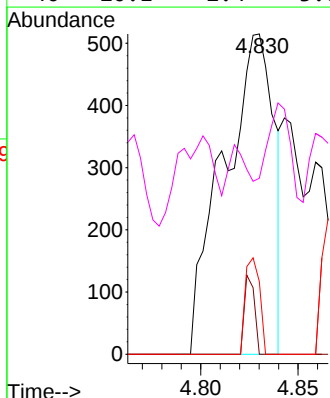
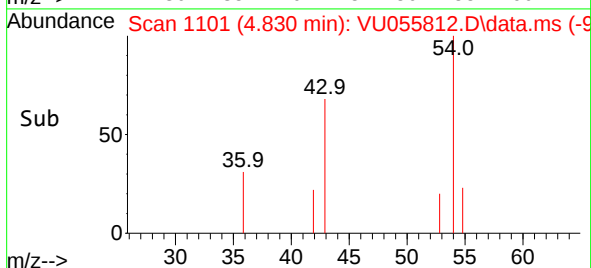
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

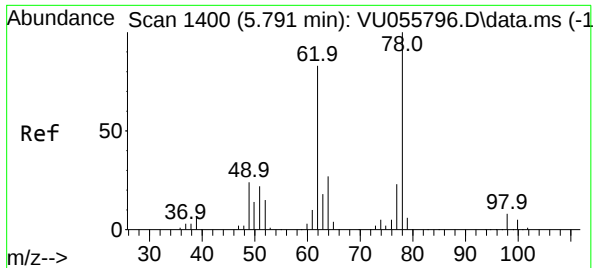


#34
Propionitrile
Concen: 0.518 ug/l m
RT: 4.830 min Scan# 1101
Delta R.T. 0.048 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



Tgt Ion: 54 Resp: 931
Ion Ratio Lower Upper
54 100
52 0.0 17.4 26.0#
55 0.0 104.1 156.1#
40 20.1 2.4 3.6#





#36

1,2-Dichloroethane

Concen: 0.224 ug/l

RT: 5.798 min Scan# 1400

Delta R.T. 0.007 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 62 Resp: 6958

Ion Ratio Lower Upper

62 100

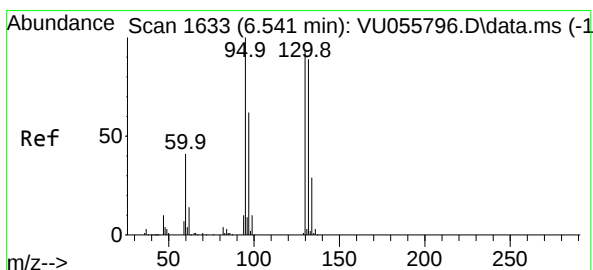
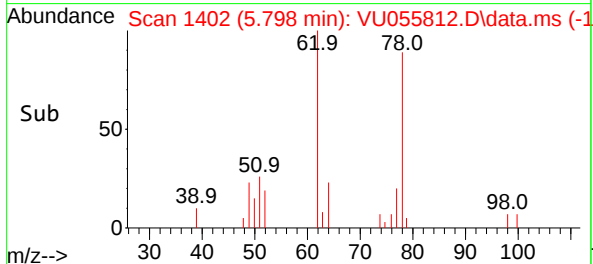
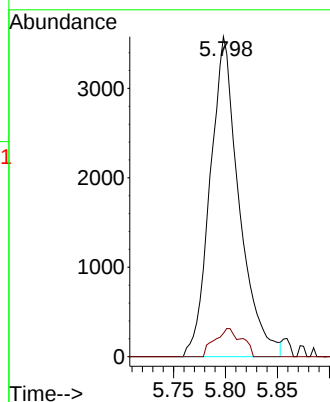
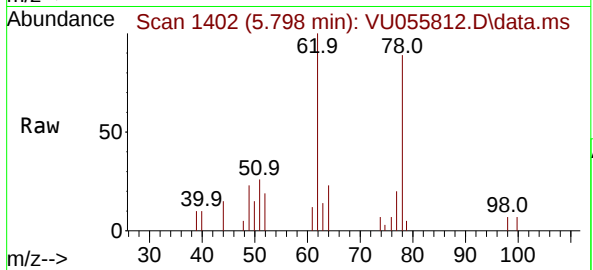
98 8.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#37

Trichloroethene

Concen: 0.223 ug/l

RT: 6.544 min Scan# 1634

Delta R.T. 0.003 min

Lab File: VU055812.D

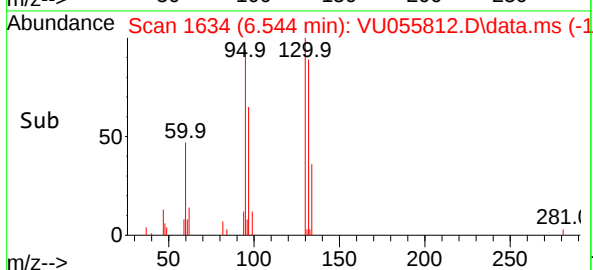
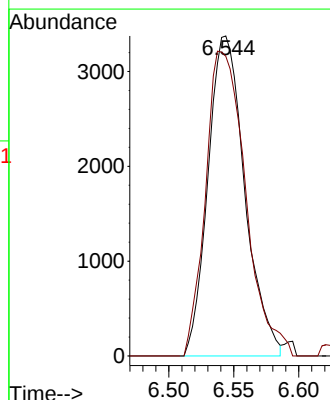
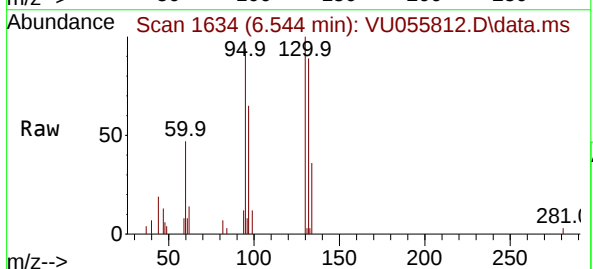
Acq: 19 Oct 2023 16:29

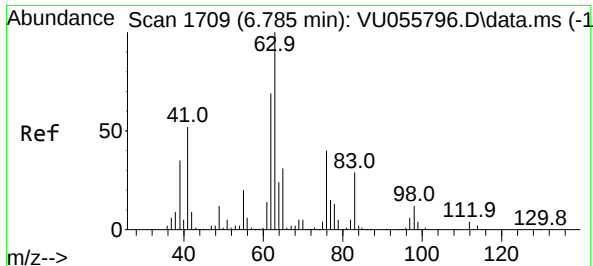
Tgt Ion:130 Resp: 6635

Ion Ratio Lower Upper

130 100

95 93.7 85.0 127.6





#38

1,2-Dichloropropane

Concen: 0.200 ug/l

RT: 6.795 min Scan# 1156

Delta R.T. 0.010 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

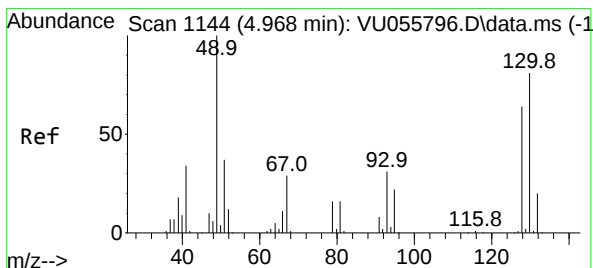
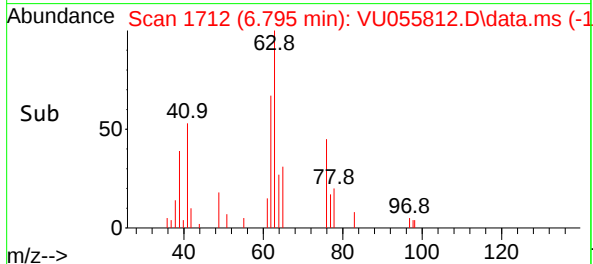
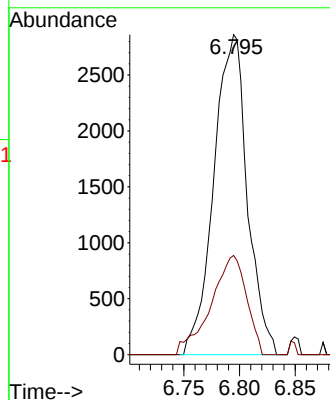
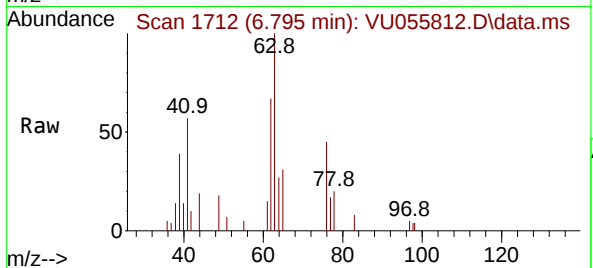
Tgt Ion: 63 Resp: 5989
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#39

Methacrylonitrile

Concen: 0.225 ug/l m

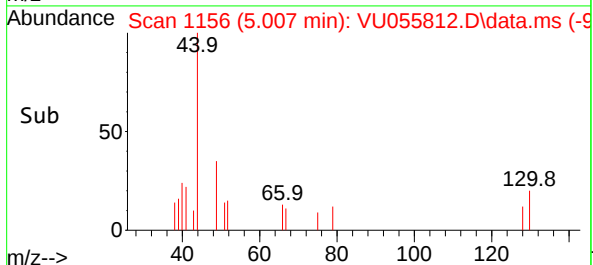
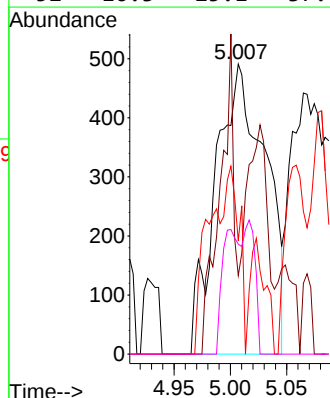
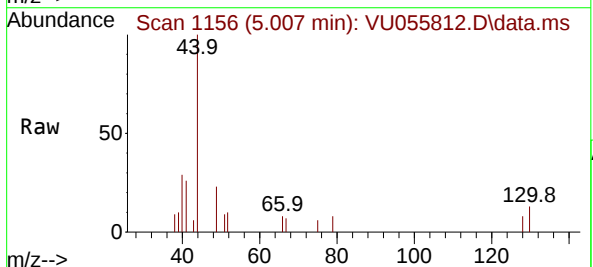
RT: 5.007 min Scan# 1156

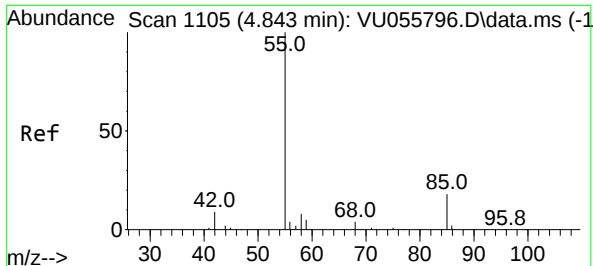
Delta R.T. 0.039 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

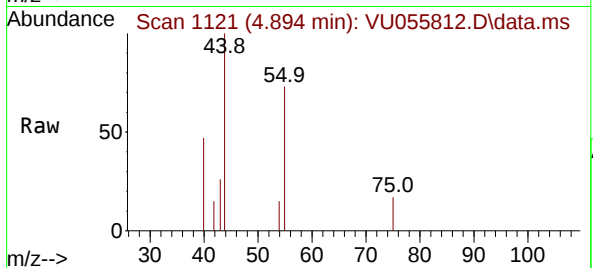
Tgt Ion: 41 Resp: 1507
 Ion Ratio Lower Upper
 41 100
 67 31.8 66.8 100.2#
 39 38.9 41.2 61.8#
 52 16.3 25.1 37.7#





#40
Methyl acrylate
Concen: 0.224 ug/l m
RT: 4.894 min Scan# 1121
Delta R.T. 0.051 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

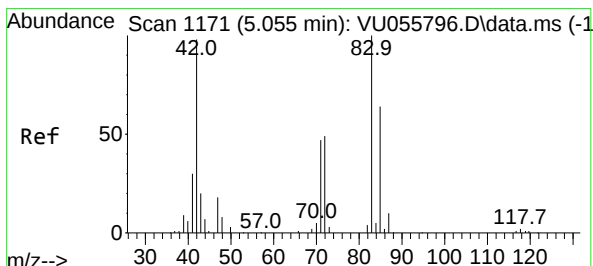
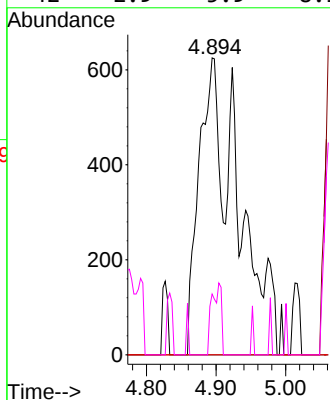
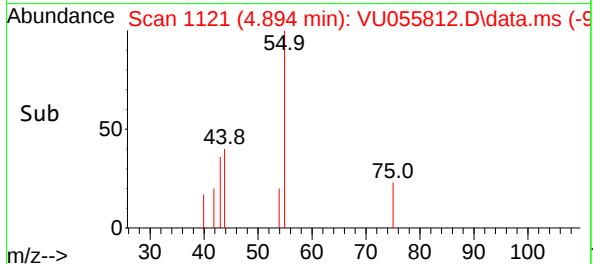
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion:	55	Resp:	241
Ion	Ratio	Lower	Upper
55	100		
85	0.0	13.3	19.9
58	0.0	6.5	9.7
42	2.9	5.9	8.9

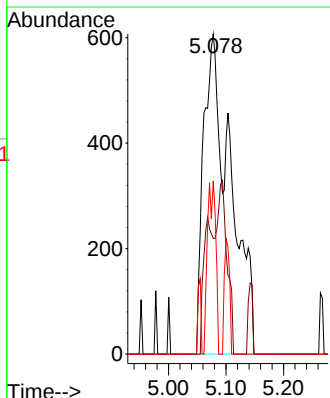
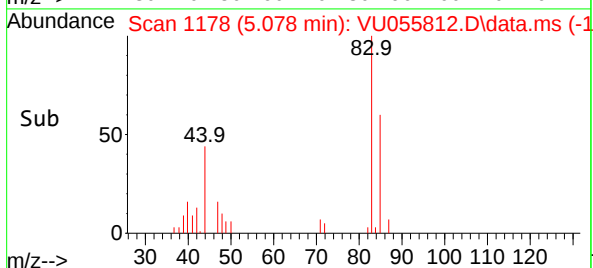
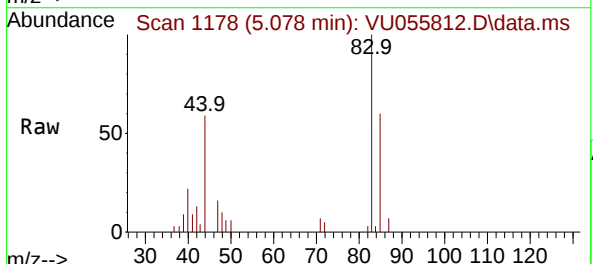
Manual Integrations
APPROVED

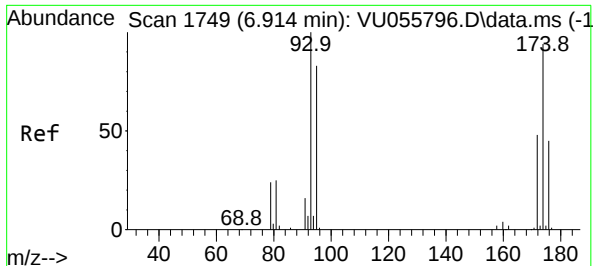
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#41
Tetrahydrofuran
Concen: 0.513 ug/l m
RT: 5.078 min Scan# 1178
Delta R.T. 0.023 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion:	42	Resp:	1949
Ion	Ratio	Lower	Upper
42	100		
72	17.0	40.9	61.3
71	17.0	36.9	55.3





#43

Dibromomethane

Concen: 0.203 ug/l

RT: 6.920 min Scan# 1751

Delta R.T. 0.006 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 93 Resp: 288

Ion Ratio Lower Upper

93 100

95 72.0 67.0 100.6

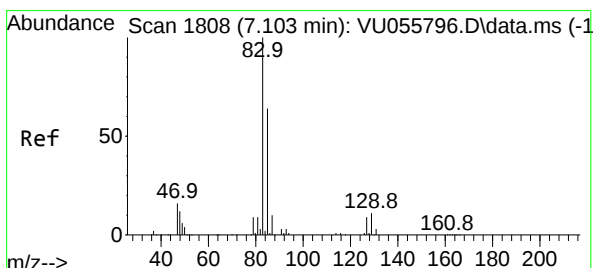
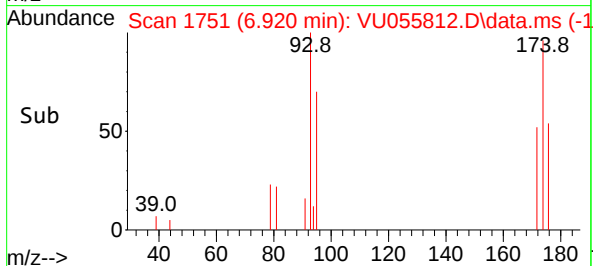
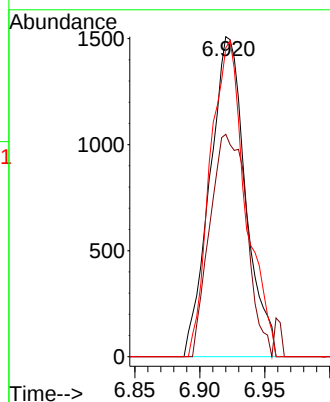
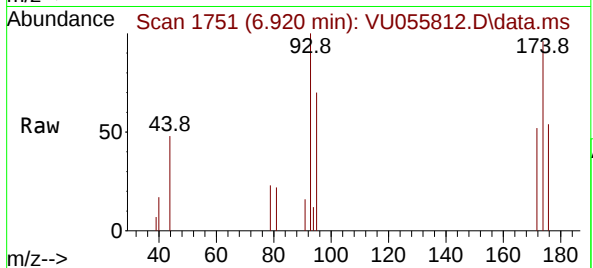
174 97.9 73.8 110.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#44

Bromodichloromethane

Concen: 0.215 ug/l

RT: 7.103 min Scan# 1808

Delta R.T. 0.000 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

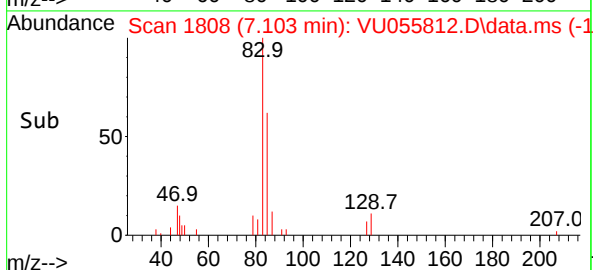
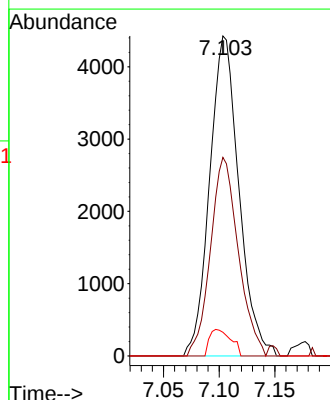
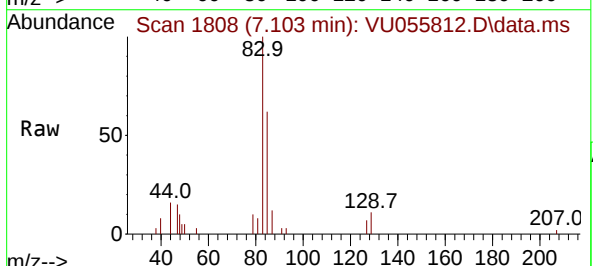
Tgt Ion: 83 Resp: 8084

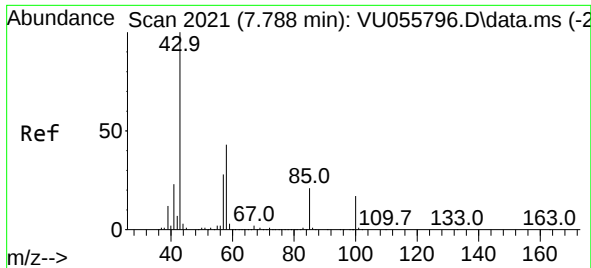
Ion Ratio Lower Upper

83 100

85 62.1 51.9 77.9

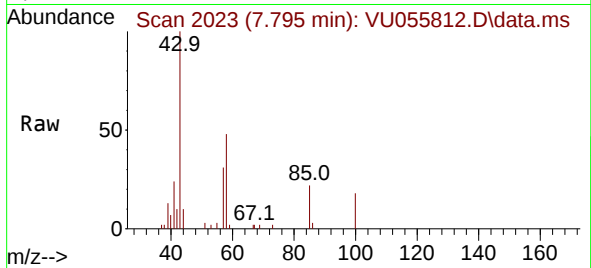
127 7.4 6.7 10.1





#45
4-Methyl-2-Pentanone
Concen: 0.990 ug/l
RT: 7.795 min Scan# 2021
Delta R.T. 0.007 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

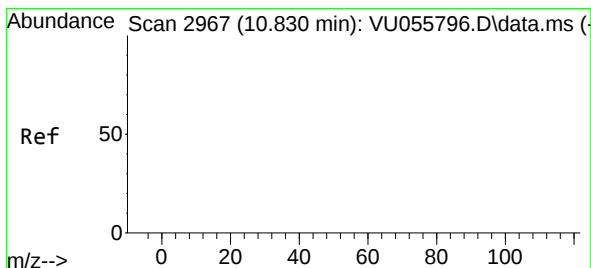
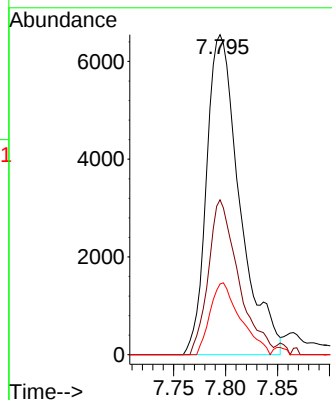
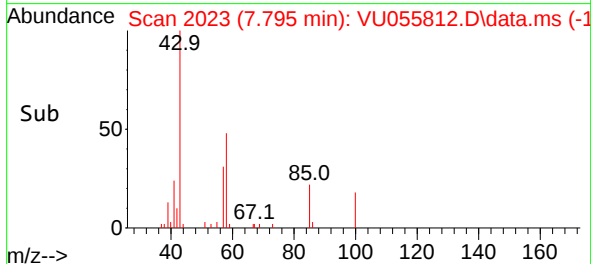
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 43 Resp: 14539
Ion Ratio Lower Upper
43 100
58 43.9 20.9 62.8
85 20.5 14.6 21.8

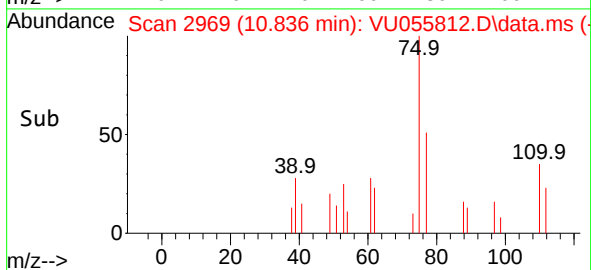
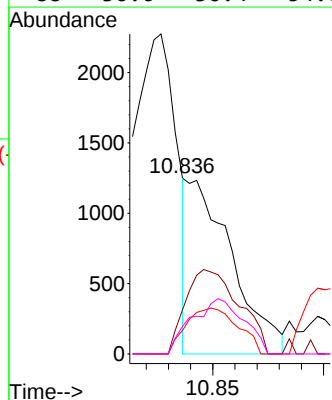
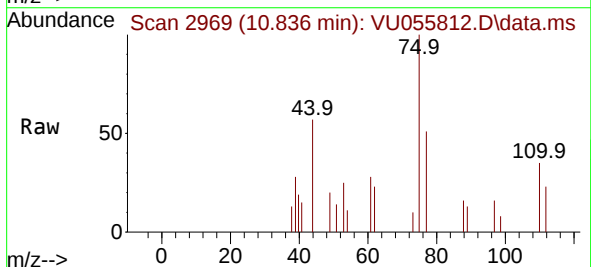
Manual Integrations
APPROVED

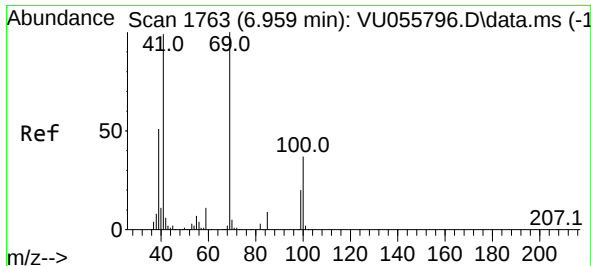
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#46
t-1,4-Dichloro-2-butene
Concen: 0.299 ug/l m
RT: 10.836 min Scan# 2969
Delta R.T. 0.006 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

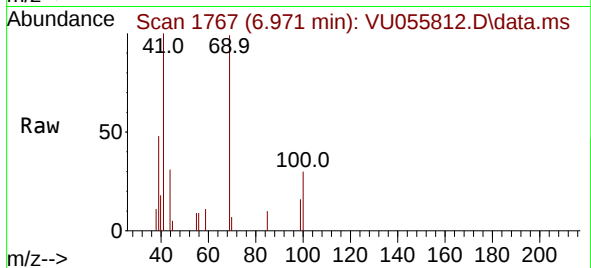
Tgt Ion: 75 Resp: 1748
Ion Ratio Lower Upper
75 100
53 57.7 73.3 109.9#
89 30.3 48.2 72.4#
88 36.6 36.4 54.6





#47
Methyl methacrylate
Concen: 0.340 ug/l
RT: 6.971 min Scan# 1767
Delta R.T. 0.013 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

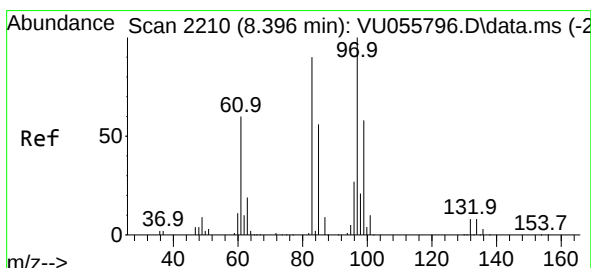
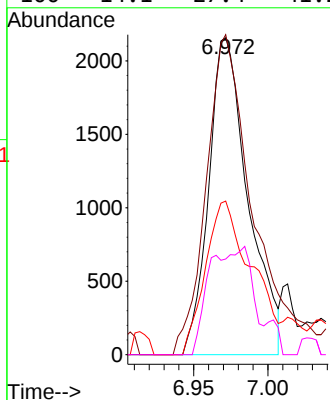
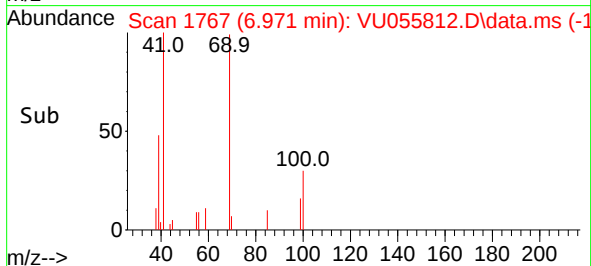
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 69 Resp: 3980
Ion Ratio Lower Upper
69 100
41 120.3 0.0 209.2
39 58.1 46.7 70.1
100 14.1 27.4 41.2#

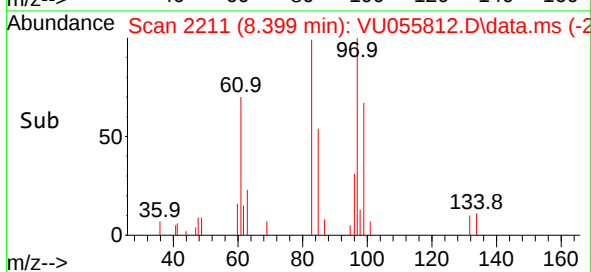
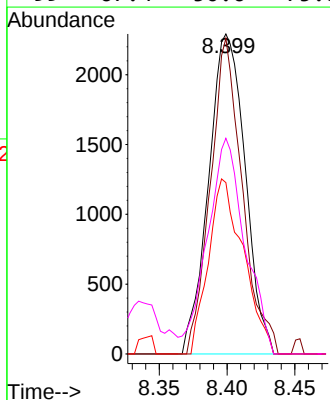
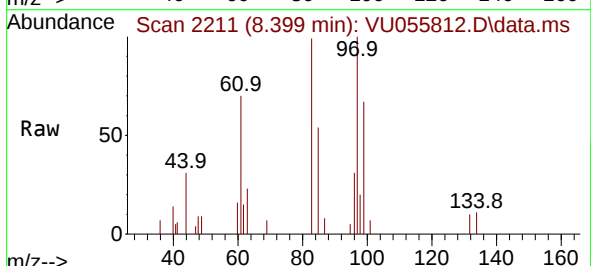
Manual Integrations
APPROVED

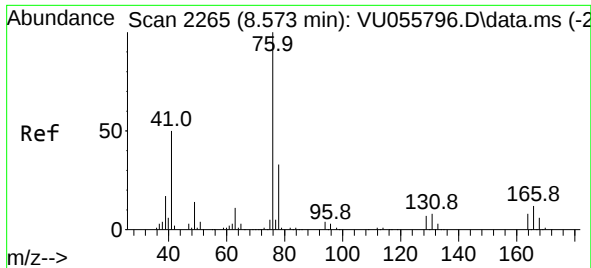
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#52
1,1,2-Trichloroethane
Concen: 0.212 ug/l
RT: 8.399 min Scan# 2211
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

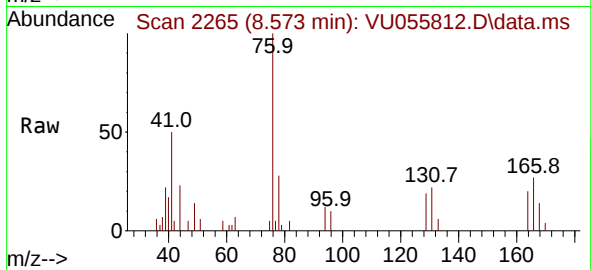
Tgt Ion: 97 Resp: 4294
Ion Ratio Lower Upper
97 100
83 98.6 71.8 107.8
85 53.5 45.2 67.8
99 67.4 50.6 75.8





#53
1,3-Dichloropropane
Concen: 0.215 ug/l
RT: 8.573 min Scan# 2103
Delta R.T. -0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

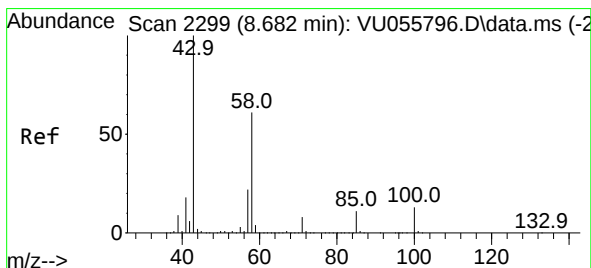
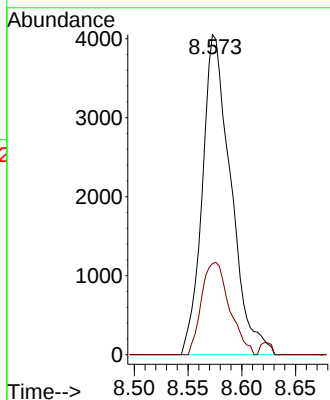
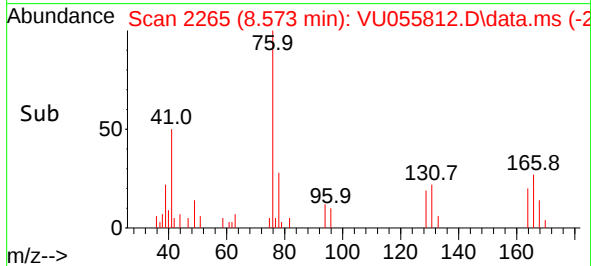
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



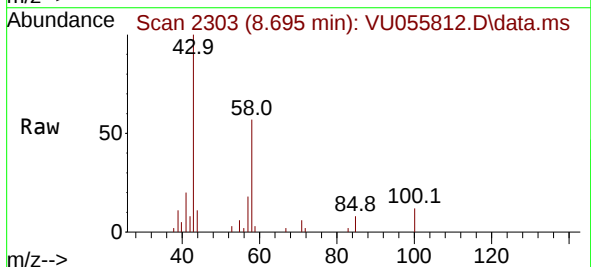
Tgt Ion: 76 Resp: 7454
Ion Ratio Lower Upper
76 100
78 28.3 25.9 38.9

Manual Integrations
APPROVED

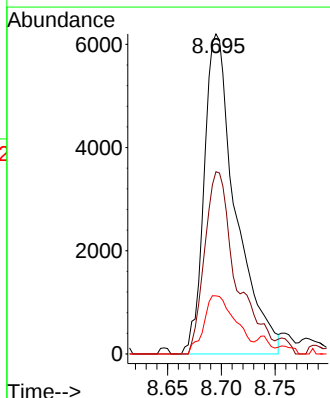
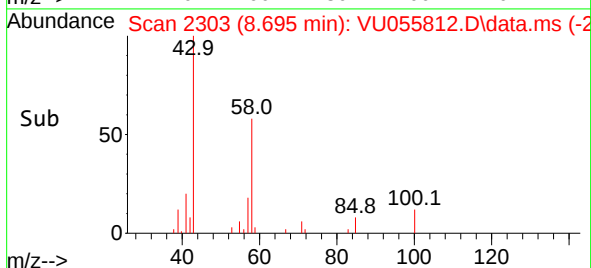
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

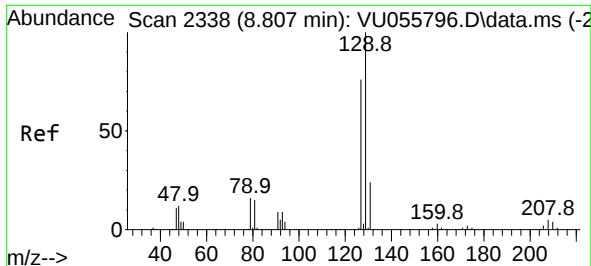


#54
2-Hexanone
Concen: 0.766 ug/l
RT: 8.695 min Scan# 2303
Delta R.T. 0.013 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



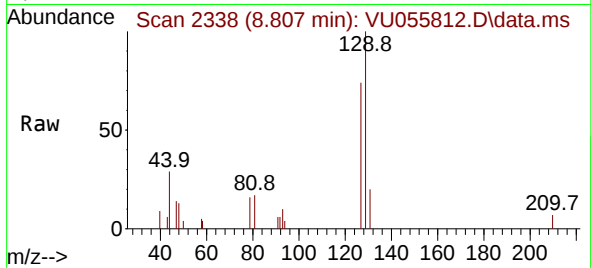
Tgt Ion: 43 Resp: 12617
Ion Ratio Lower Upper
43 100
58 57.1 38.2 78.2
57 18.5 0.0 39.1





#55
Dibromochloromethane
Concen: 0.201 ug/l
RT: 8.807 min Scan# 2338
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

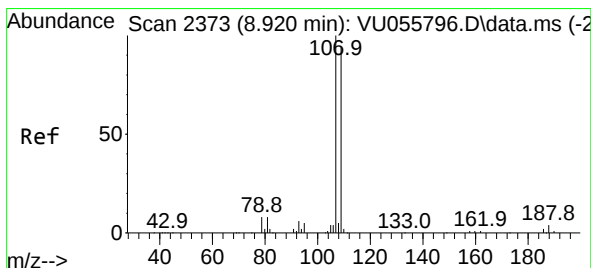
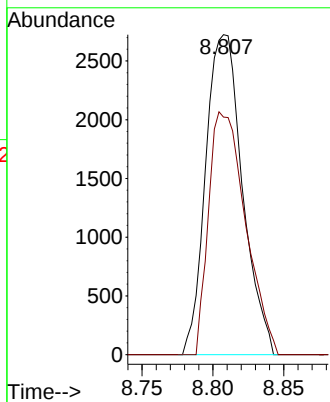
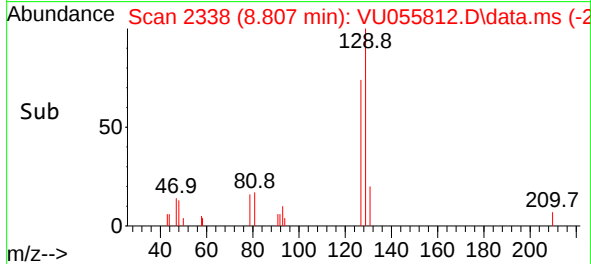
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



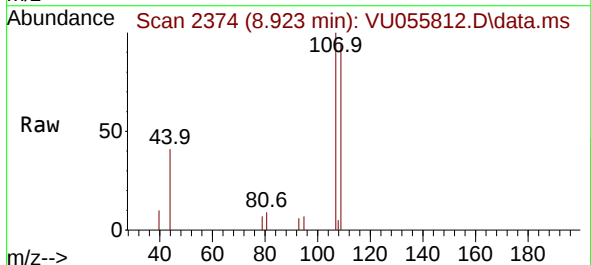
Tgt Ion:129 Resp: 4919
Ion Ratio Lower Upper
129 100
127 76.1 61.4 92.0

Manual Integrations
APPROVED

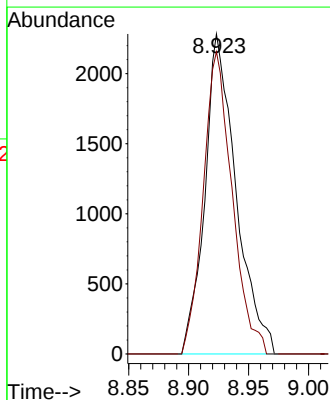
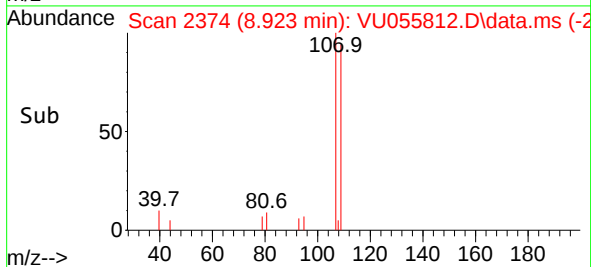
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

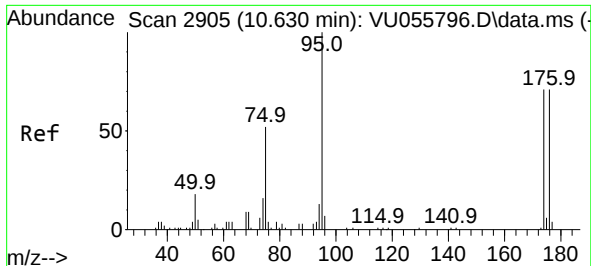


#56
1,2-Dibromoethane
Concen: 0.223 ug/l
RT: 8.923 min Scan# 2374
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



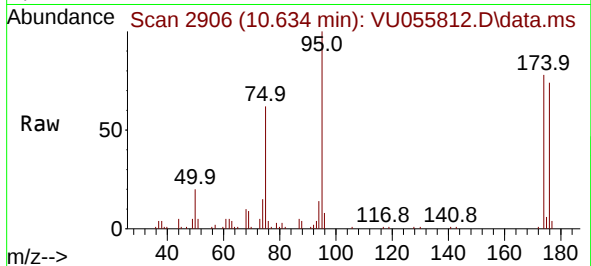
Tgt Ion:107 Resp: 4140
Ion Ratio Lower Upper
107 100
109 87.3 0.0 184.4





#57
4-Bromofluorobenzene
Concen: 0.882 ug/l
RT: 10.634 min Scan# 2905
Delta R.T. 0.004 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

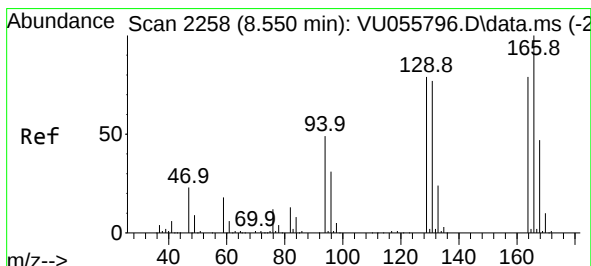
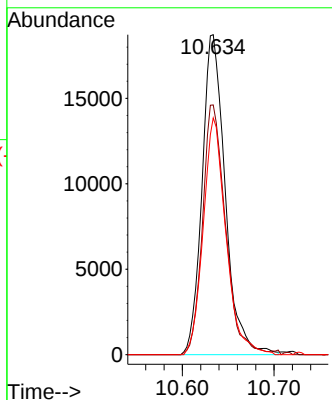
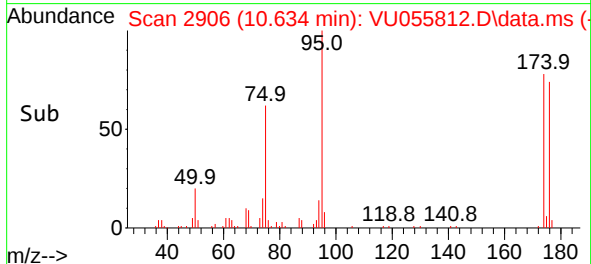
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



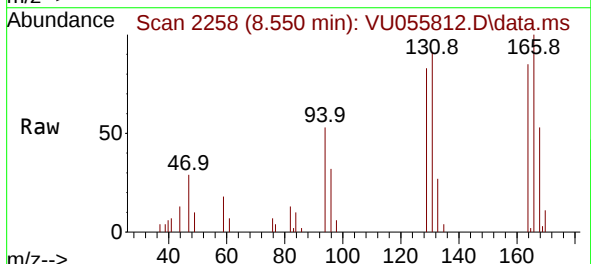
Tgt Ion: 95 Resp: 32839
Ion Ratio Lower Upper
95 100
174 77.4 63.3 94.9
176 72.7 59.3 88.9

Manual Integrations
APPROVED

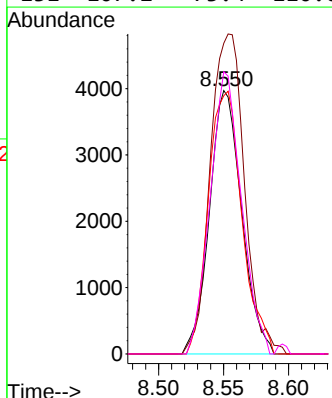
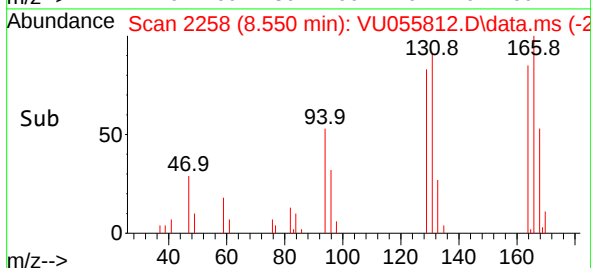
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

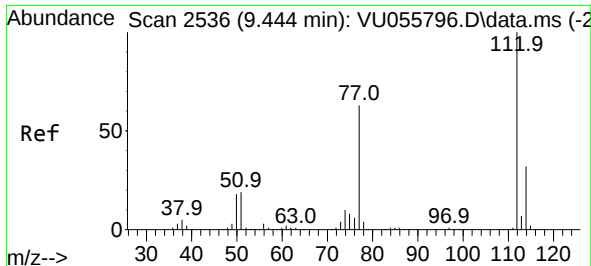


#58
Tetrachloroethene
Concen: 0.221 ug/l
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



Tgt Ion:164 Resp: 6830
Ion Ratio Lower Upper
164 100
166 118.0 99.6 149.4
129 98.1 78.6 117.8
131 107.2 73.4 110.0





#59

Chlorobenzene

Concen: 0.211 ug/l

RT: 9.450 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion:112 Resp: 1579

Ion Ratio Lower Upper

112 100

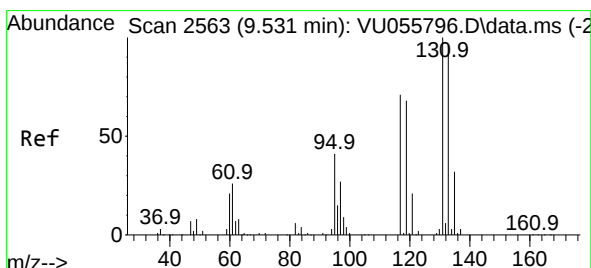
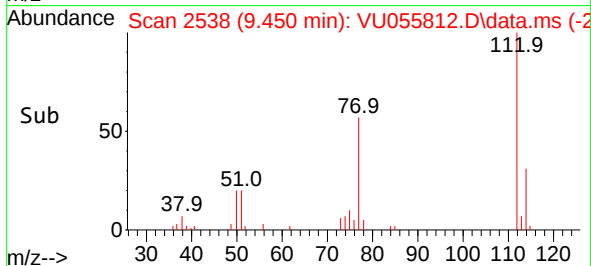
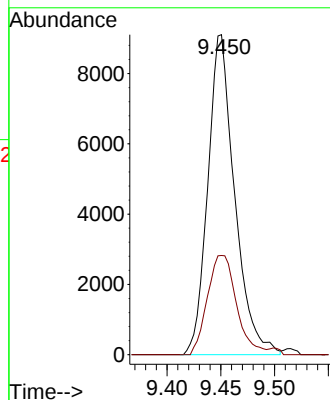
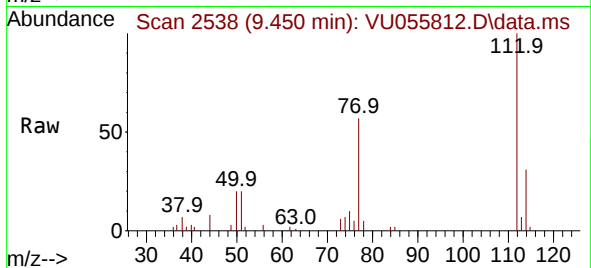
114 31.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#60

1,1,1,2-Tetrachloroethane

Concen: 0.206 ug/l

RT: 9.534 min Scan# 2564

Delta R.T. 0.003 min

Lab File: VU055812.D

Acq: 19 Oct 2023 16:29

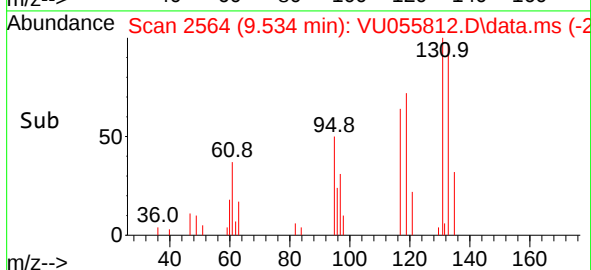
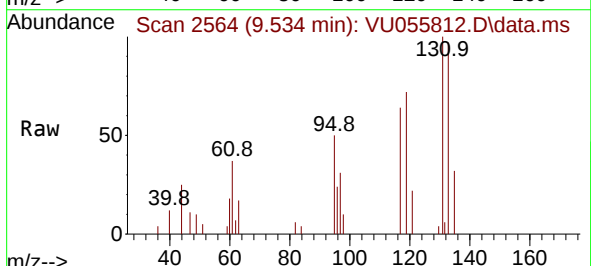
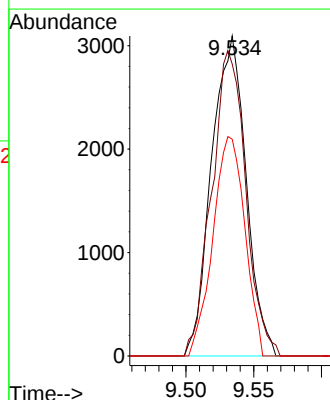
Tgt Ion:131 Resp: 5481

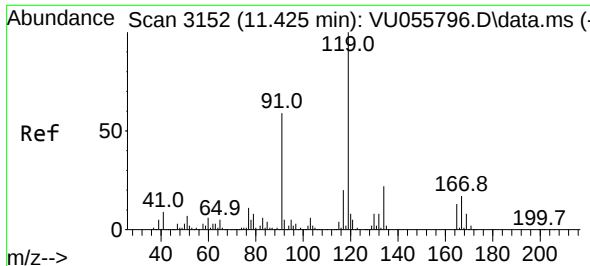
Ion Ratio Lower Upper

131 100

133 94.1 77.8 116.6

119 63.3 55.2 82.8





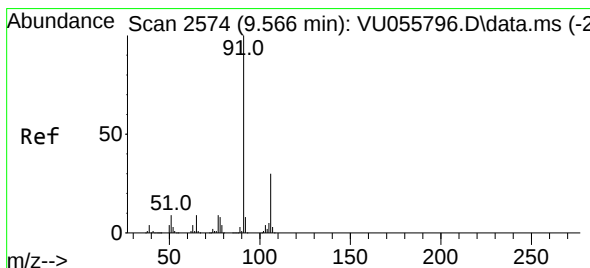
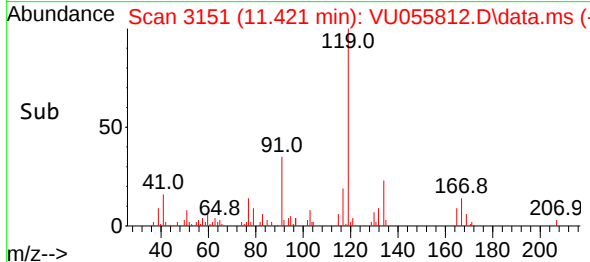
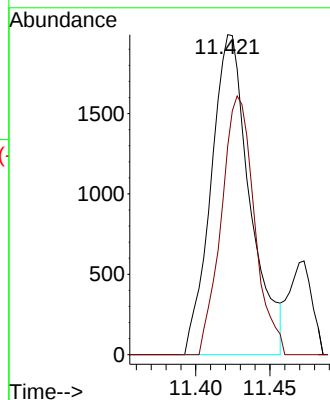
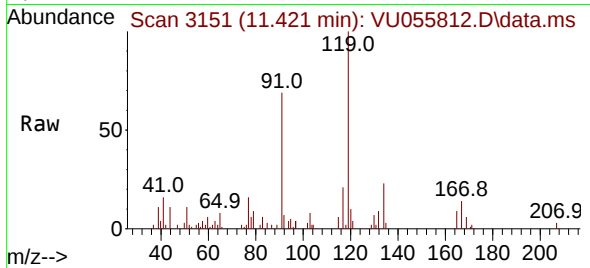
#61
Pentachloroethane
Concen: 0.201 ug/l
RT: 11.421 min Scan# 3152
Delta R.T. -0.004 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion: 117 Resp: 3624
Ion Ratio Lower Upper
117 100
167 68.7 56.7 85.1

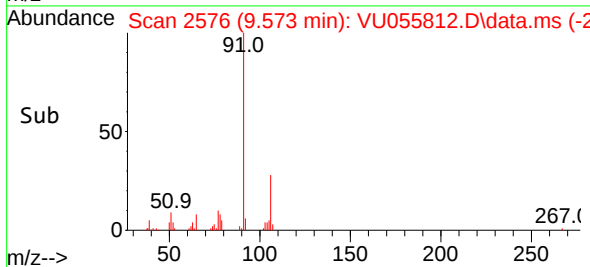
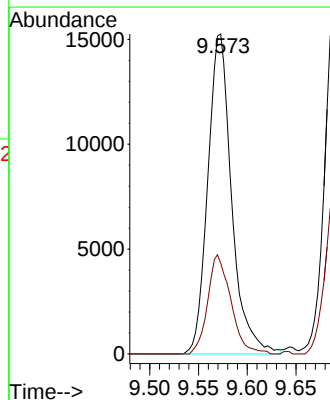
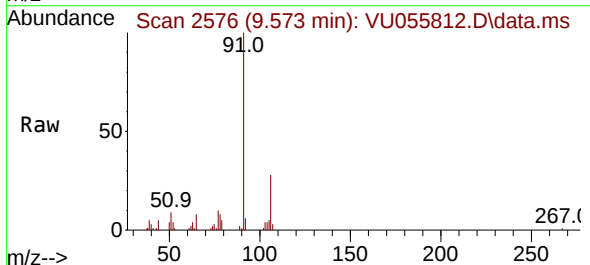
Manual Integrations
APPROVED

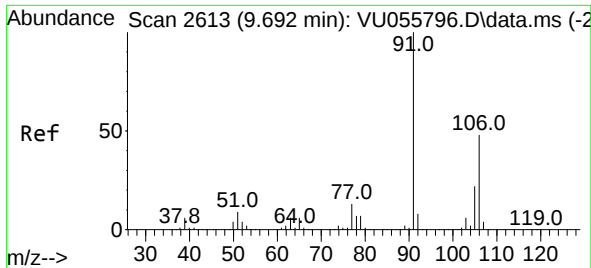
Reviewed By : John Carlone 10/20/2023
Supervised By : Mahesh Dadoda 10/25/2023



#63
Ethyl Benzene
Concen: 0.204 ug/l
RT: 9.573 min Scan# 2576
Delta R.T. 0.007 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion: 91 Resp: 25959
Ion Ratio Lower Upper
91 100
106 28.4 24.2 36.2





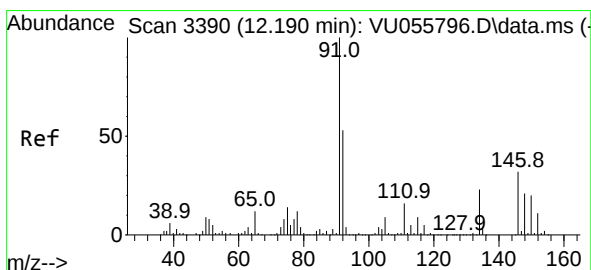
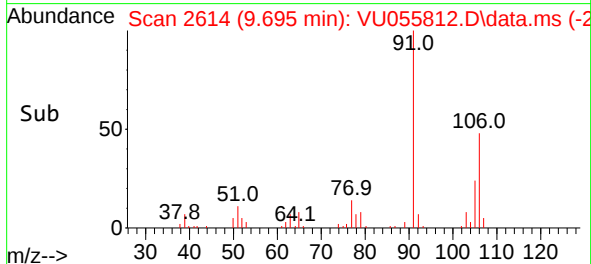
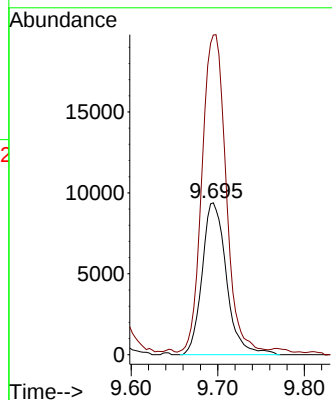
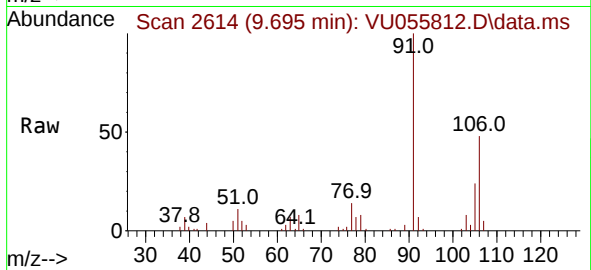
#64
m/p-Xylenes
Concen: 0.375 ug/l
RT: 9.695 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion:106 Resp: 1829
Ion Ratio Lower Upper
106 100
91 206.2 167.3 250.9

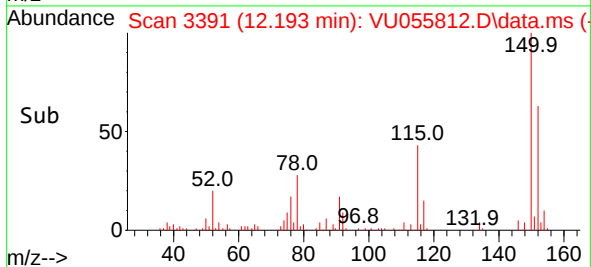
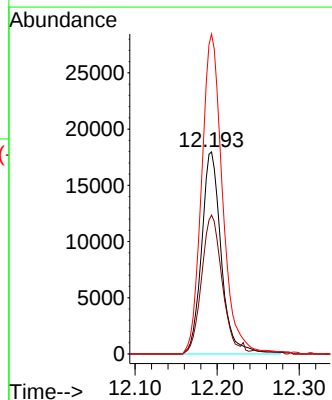
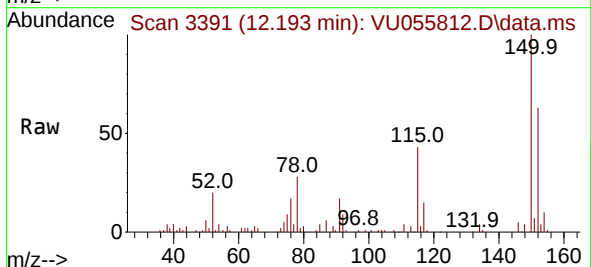
Manual Integrations
APPROVED

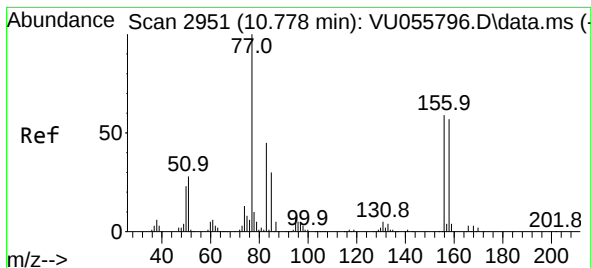
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#68
1,2-Dichlorobenzene-d4
Concen: 0.866 ug/l
RT: 12.193 min Scan# 3391
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion:152 Resp: 29875
Ion Ratio Lower Upper
152 100
115 72.4 0.0 308.8
150 169.3 0.0 635.0





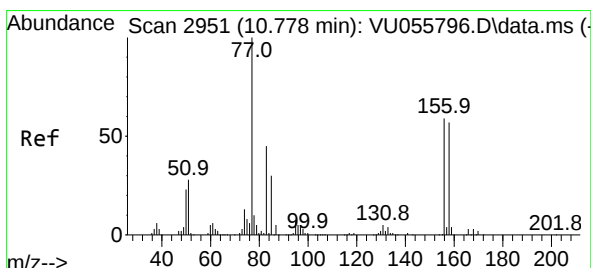
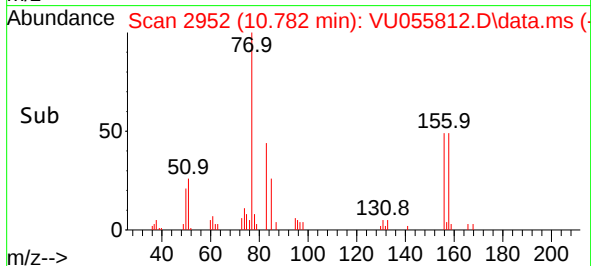
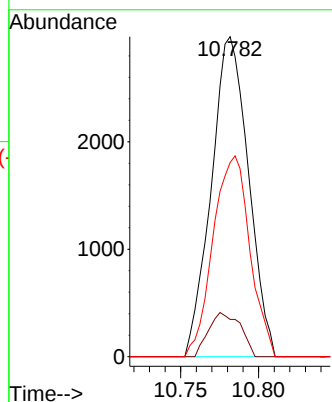
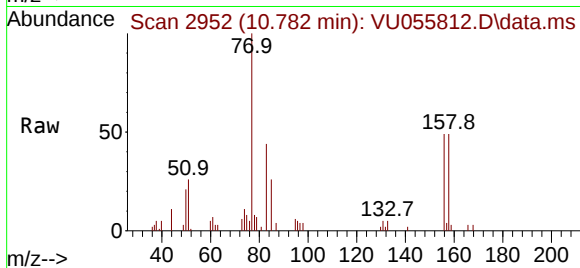
#70
1,1,2,2-Tetrachloroethane
Concen: 0.208 ug/l
RT: 10.782 min Scan# 2952
Delta R.T. 0.004 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion: 83 Resp: 4930
Ion Ratio Lower Upper
83 100
131 11.8 7.2 10.8
85 62.2 50.5 75.7

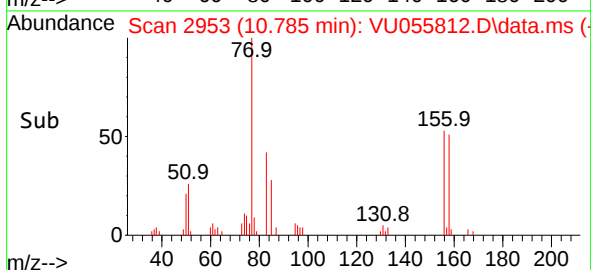
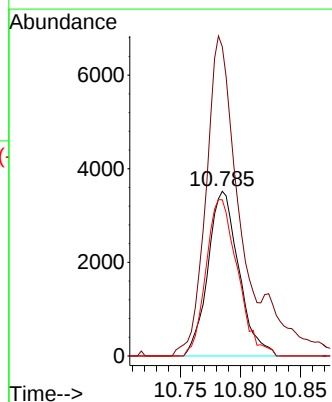
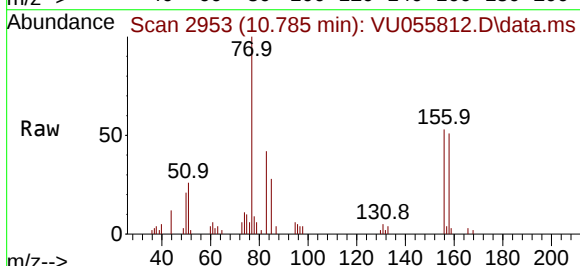
Manual Integrations
APPROVED

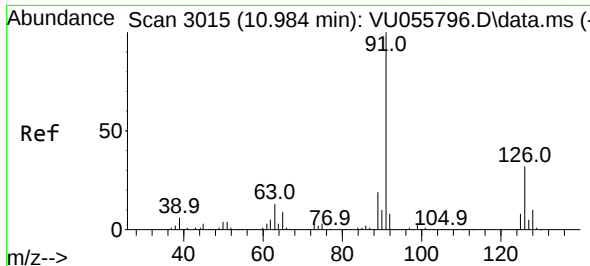
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#72
Bromobenzene
Concen: 0.214 ug/l
RT: 10.785 min Scan# 2953
Delta R.T. 0.007 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion:156 Resp: 6288
Ion Ratio Lower Upper
156 100
77 195.6 0.0 343.0
158 97.1 0.0 194.8





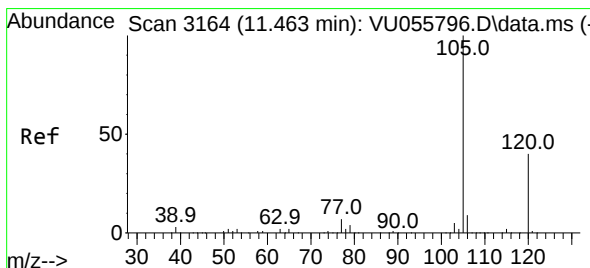
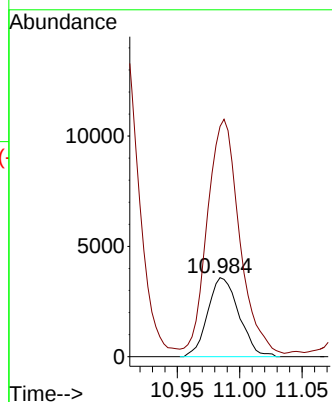
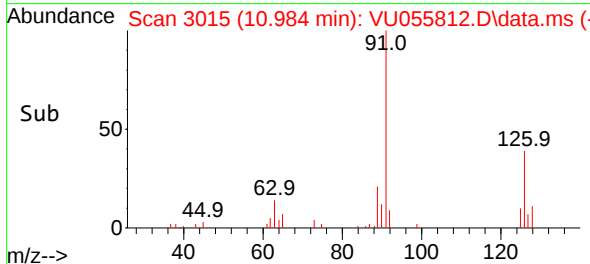
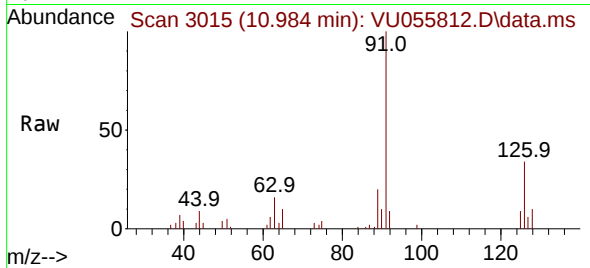
#74
2-Chlorotoluene
Concen: 0.211 ug/l
RT: 10.984 min Scan# 3015
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion:126 Resp: 623
Ion Ratio Lower Upper
126 100
91 306.7 0.0 610.0

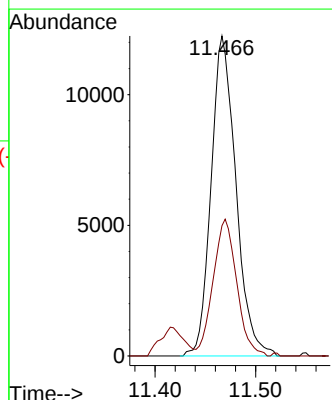
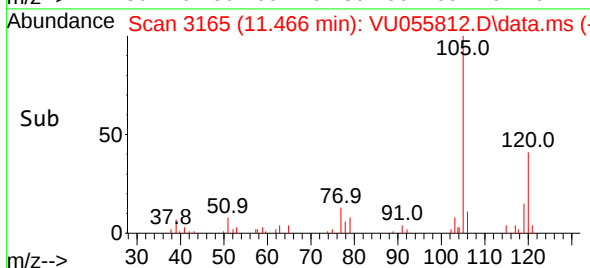
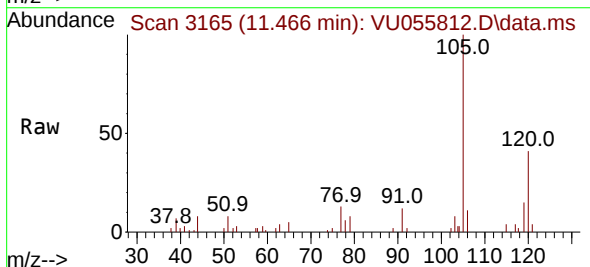
Manual Integrations
APPROVED

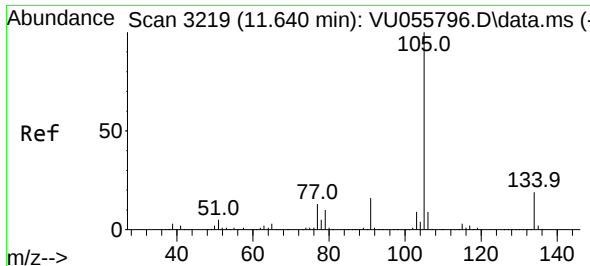
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#78
1,2,4-Trimethylbenzene
Concen: 0.201 ug/l
RT: 11.466 min Scan# 3165
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

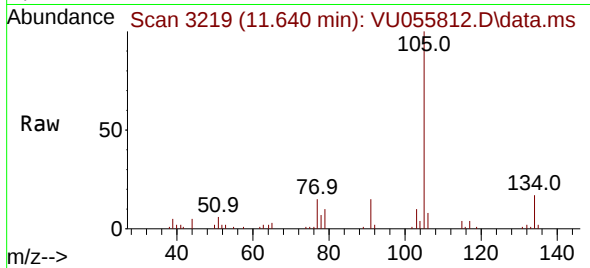
Tgt Ion:105 Resp: 21019
Ion Ratio Lower Upper
105 100
120 40.7 21.9 65.8





#79
 sec-Butylbenzene
 Concen: 0.228 ug/l
 RT: 11.640 min Scan# 3219
 Delta R.T. 0.000 min
 Lab File: VU055812.D
 Acq: 19 Oct 2023 16:29

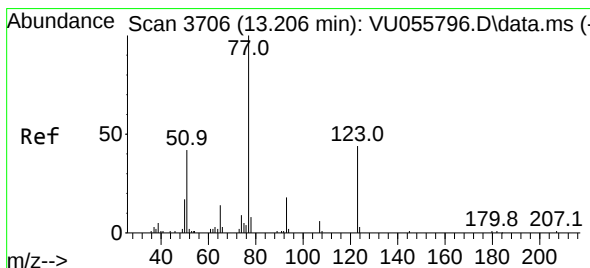
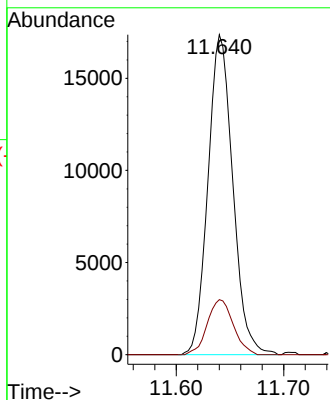
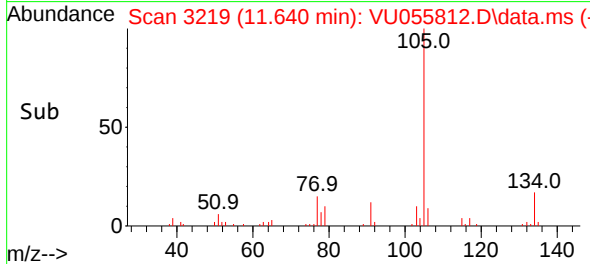
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023



Tgt Ion:105 Resp: 2783
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.9 22.3

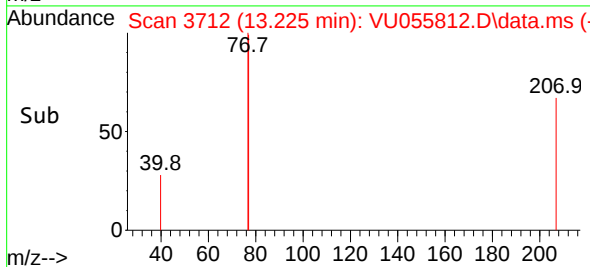
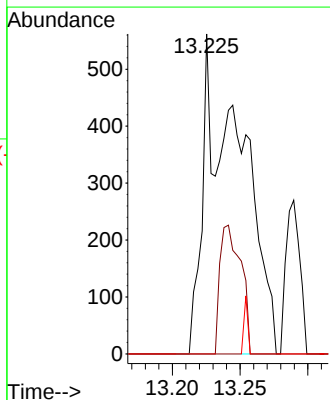
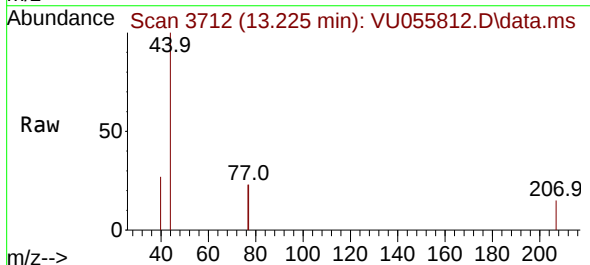
Manual Integrations
 APPROVED

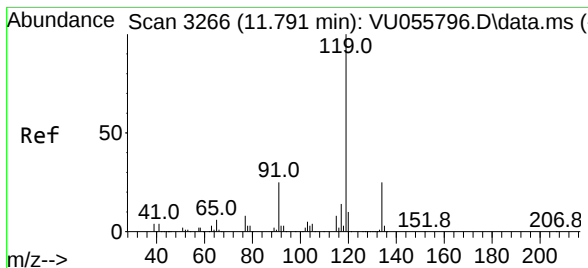
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023



#80
 Nitrobenzene
 Concen: 1.722 ug/l m
 RT: 13.225 min Scan# 3712
 Delta R.T. 0.019 min
 Lab File: VU055812.D
 Acq: 19 Oct 2023 16:29

Tgt Ion: 77 Resp: 1081
 Ion Ratio Lower Upper
 77 100
 123 0.0 19.7 69.7#
 65 0.0 11.5 14.7#





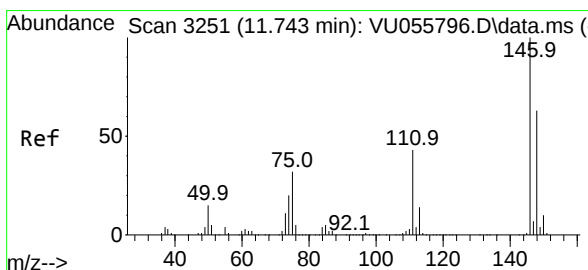
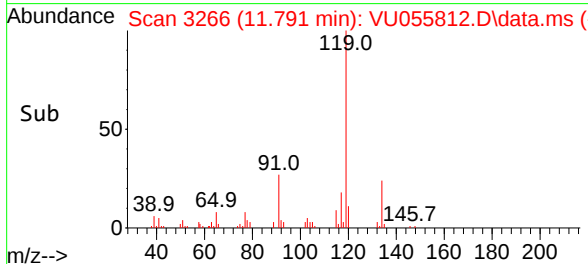
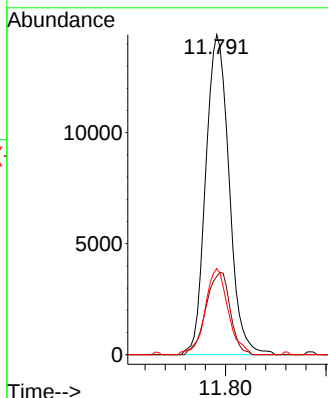
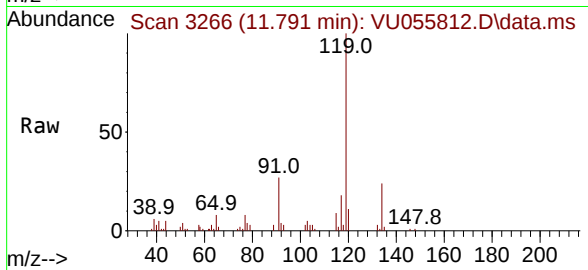
#81
p-Isopropyltoluene
Concen: 0.237 ug/l
RT: 11.791 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

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

Tgt Ion:119 Resp: 2325
Ion Ratio Lower Upper
119 100
134 26.6 20.2 30.4
91 26.5 19.3 28.9

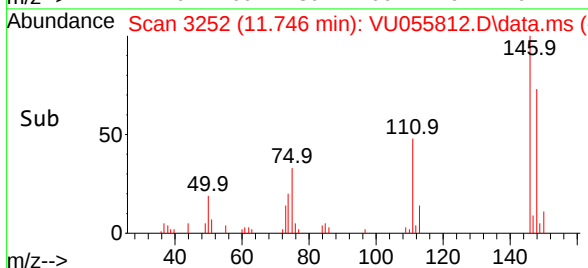
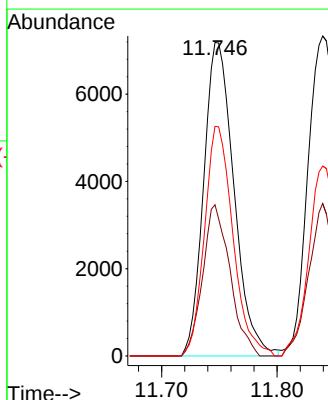
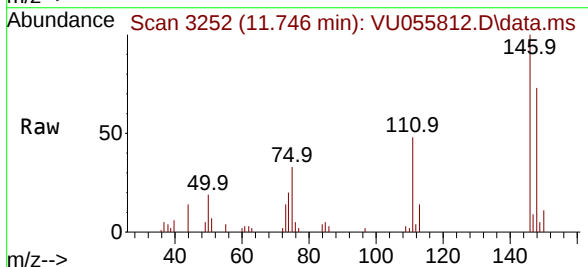
Manual Integrations
APPROVED

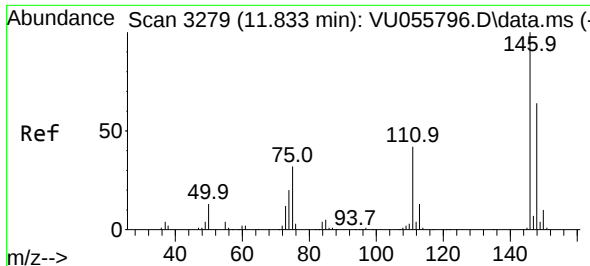
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#82
1,3-Dichlorobenzene
Concen: 0.218 ug/l
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

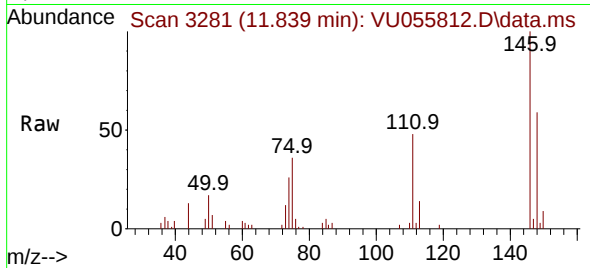
Tgt Ion:146 Resp: 13106
Ion Ratio Lower Upper
146 100
111 43.6 32.6 49.0
148 68.8 51.0 76.4





#83
1,4-Dichlorobenzene
Concen: 0.220 ug/l
RT: 11.839 min Scan# 3279
Delta R.T. 0.006 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

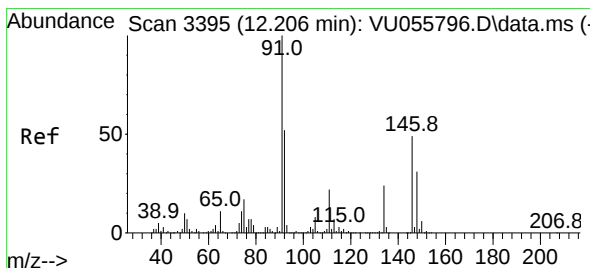
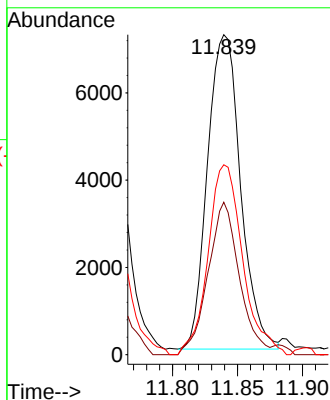
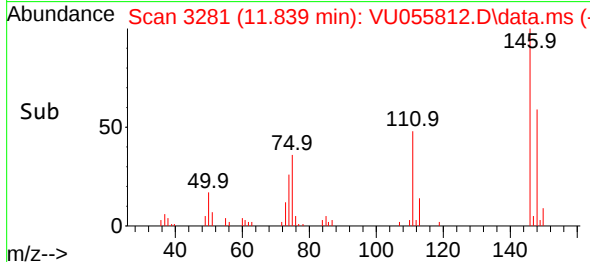
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



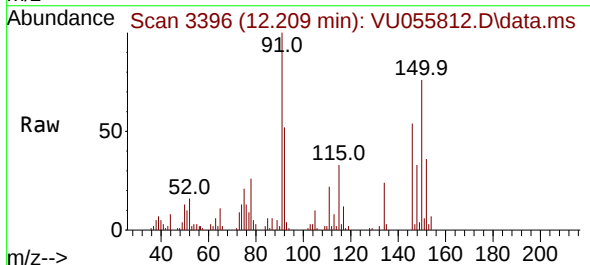
Tgt Ion:146 Resp: 12789
Ion Ratio Lower Upper
146 100
111 45.8 31.6 47.4
148 62.9 50.3 75.5

Manual Integrations
APPROVED

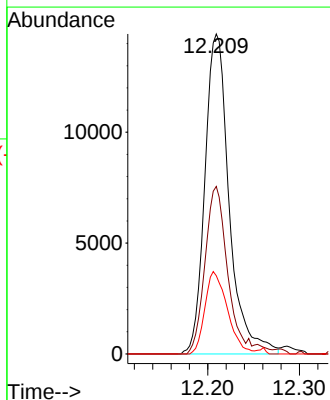
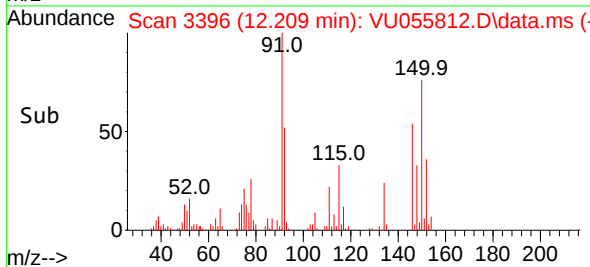
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

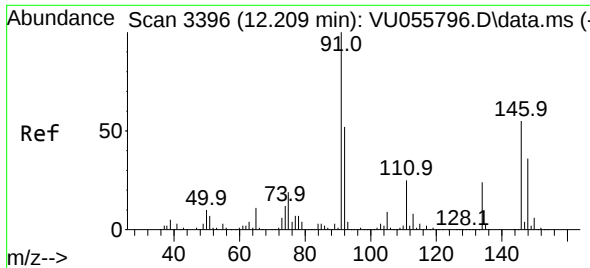


#84
n-Butylbenzene
Concen: 0.318 ug/l
RT: 12.209 min Scan# 3396
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



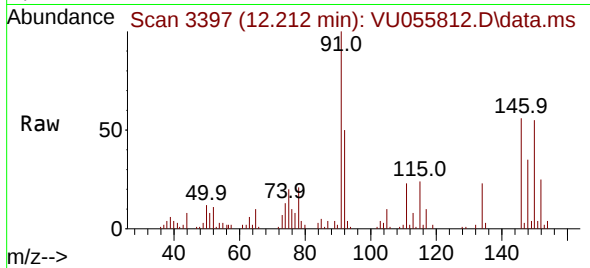
Tgt Ion: 91 Resp: 26615
Ion Ratio Lower Upper
91 100
92 49.8 40.8 61.2
134 23.9 18.4 27.6





#85
1,2-Dichlorobenzene
Concen: 0.236 ug/l
RT: 12.212 min Scan# 3396
Delta R.T. 0.003 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

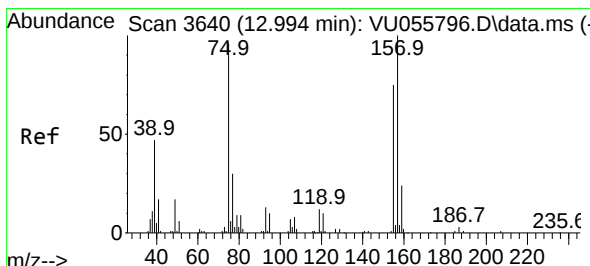
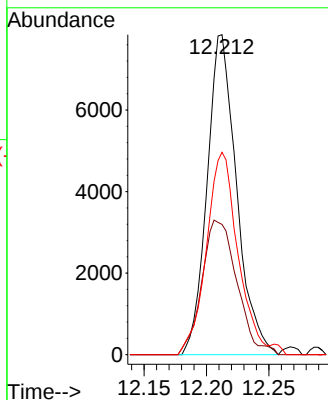
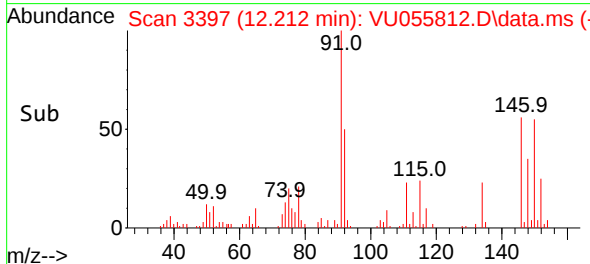
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



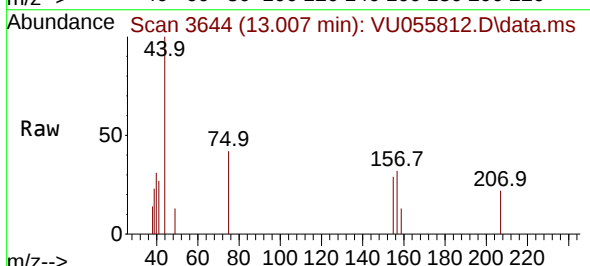
Tgt Ion:146 Resp: 12938
Ion Ratio Lower Upper
146 100
111 49.8 21.6 64.6
148 68.4 32.1 96.5

Manual Integrations
APPROVED

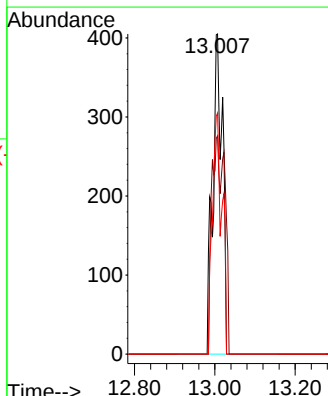
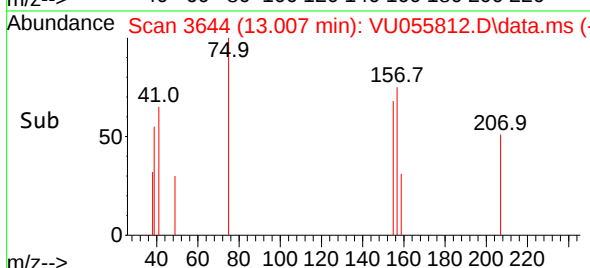
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

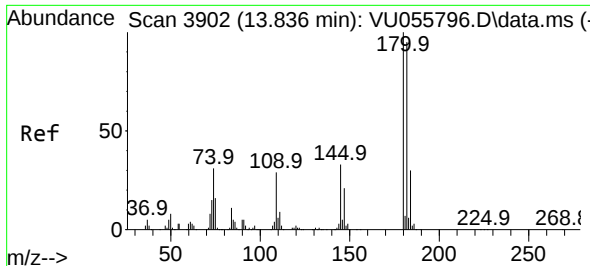


#86
1,2-Dibromo-3-Chloropropane
Concen: 0.200 ug/l m
RT: 13.007 min Scan# 3644
Delta R.T. 0.013 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



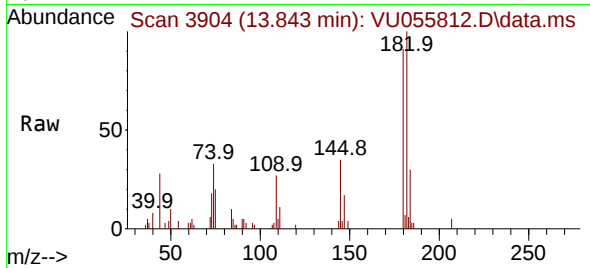
Tgt Ion: 75 Resp: 678
Ion Ratio Lower Upper
75 100
155 56.8 61.8 92.8#
157 54.4 80.2 120.4#





#87
1,2,4-Trichlorobenzene
Concen: 0.343 ug/l
RT: 13.843 min Scan# 3904
Delta R.T. 0.007 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

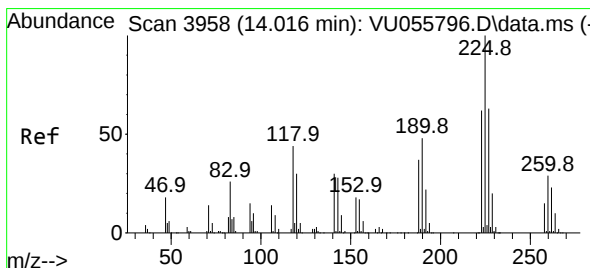
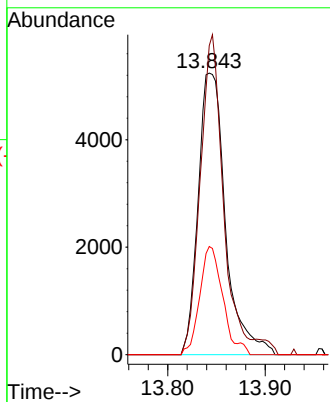
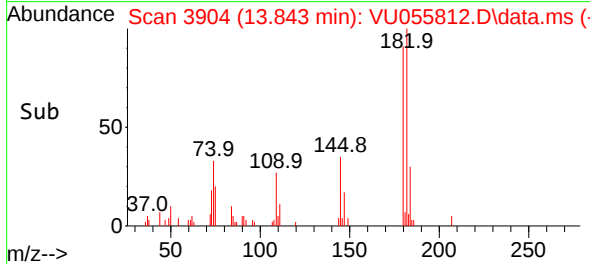
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



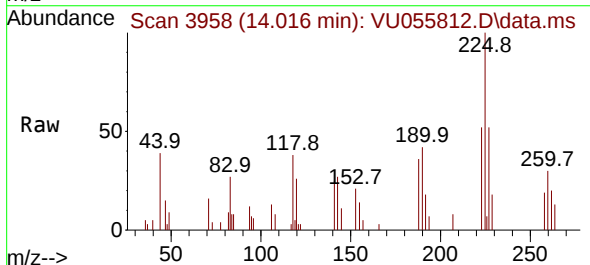
Tgt Ion:180 Resp: 10230
Ion Ratio Lower Upper
180 100
182 95.0 75.8 113.6
145 32.4 23.9 35.9

Manual Integrations
APPROVED

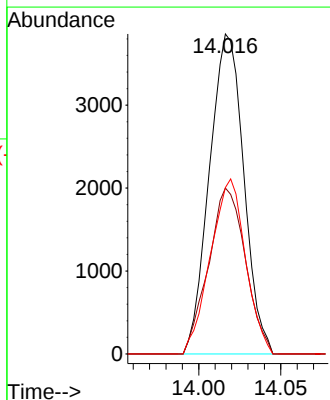
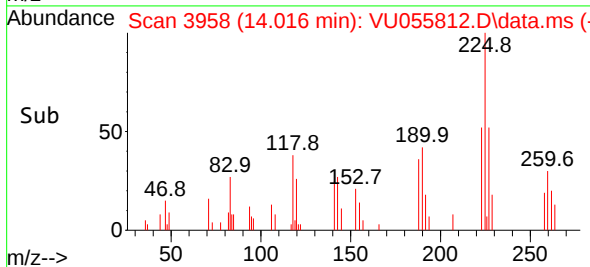
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

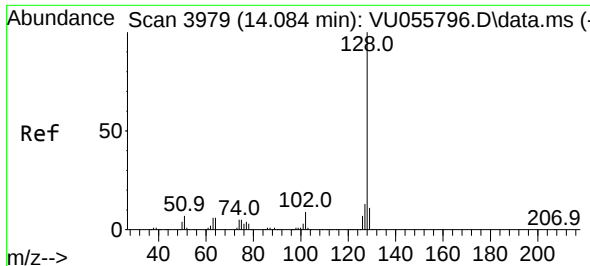


#88
Hexachlorobutadiene
Concen: 0.271 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. 0.000 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29



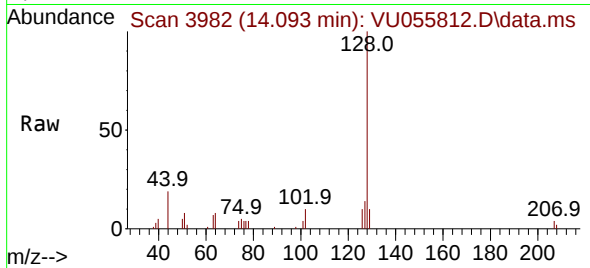
Tgt Ion:225 Resp: 5614
Ion Ratio Lower Upper
225 100
223 55.7 50.2 75.4
227 55.8 51.5 77.3





#89
Naphthalene
Concen: 0.365 ug/l
RT: 14.093 min Scan# 3982
Delta R.T. 0.009 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

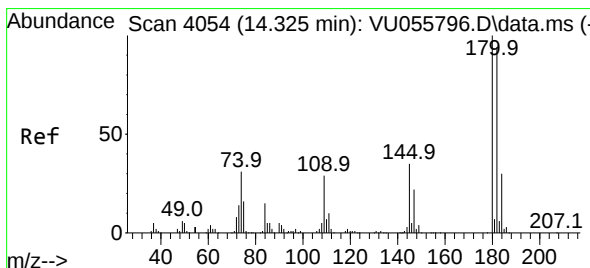
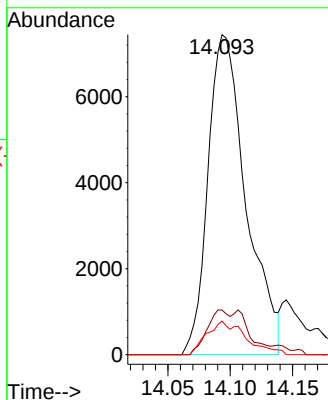
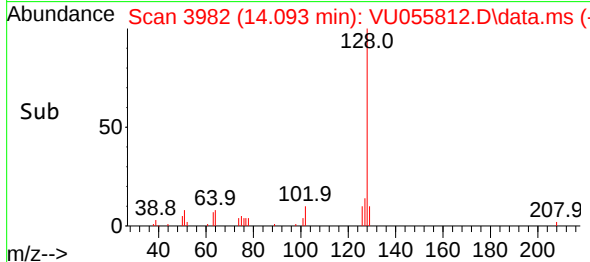
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion:128 Resp: 15809
Ion Ratio Lower Upper
128 100
127 8.3 10.9 16.3
129 6.2 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: 0.345 ug/l
RT: 14.331 min Scan# 4056
Delta R.T. 0.006 min
Lab File: VU055812.D
Acq: 19 Oct 2023 16:29

Tgt Ion:180 Resp: 8811
Ion Ratio Lower Upper
180 100
182 102.4 75.7 113.5
145 35.5 26.1 39.1

