

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101923\
 Data File : VU055813.D
 Acq On : 19 Oct 2023 16:52
 Operator : MD/SY
 Sample : 04699-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 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 02:01:09 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	95059	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	34349	0.916	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	31730	0.913	ug/l	0.00
Spiked Amount 1.000			Recovery	=	91.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	11272	0.305	ug/l	97
3) Chloromethane	1.518	50	11831	0.375	ug/l	98
4) Vinyl Chloride	1.602	62	11458	0.354	ug/l	98
5) Bromomethane	1.856	94	8094	0.455	ug/l	85
6) Chloroethane	1.930	64	7150	0.457	ug/l	94
7) Trichlorofluoromethane	2.136	101	14230	0.334	ug/l	89
8) 1,1,2-Trichloro-1,2,2-...	2.579	101	8708	0.306	ug/l	91
9) 1,1-Dichloroethene	2.579	96	8415	0.317	ug/l	92
10) Iodomethane	2.721	142	11307	0.286	ug/l	98
11) Allyl Chloride	2.920	41	11890	0.345	ug/l	98
12) Acrylonitrile	3.342	53	2920	0.586	ug/l	# 68
13) Acetone	2.650	43	10867	1.022	ug/l	99
14) Carbon Disulfide	2.792	76	28153	0.325	ug/l	100
15) Methylene Chloride	3.043	84	12644	0.404	ug/l	90
16) trans-1,2-Dichloroethene	3.351	96	9105	0.324	ug/l	93
17) 1,1-Dichloroethane	3.869	63	17269	0.330	ug/l	98
18) 2-Butanone	4.747	43	10042	0.877	ug/l	94
19) Cyclohexane	5.386	56	14073m	0.316	ug/l	
20) Methylcyclohexane	6.759	83	14036	0.303	ug/l	98
21) 2,2-Dichloropropane	4.660	77	13088	0.297	ug/l	95
22) cis-1,2-Dichloroethene	4.669	96	10382	0.347	ug/l	93
23) Diethyl Ether	2.374	59	5860	0.370	ug/l	93
24) tert-Butyl Alcohol	3.184	59	7982m	4.910	ug/l	
25) Methyl tert-Butyl Ether	3.358	73	18292	0.321	ug/l	94
26) Bromochloromethane	4.981	128	3899	0.307	ug/l	94
27) Chloroform	5.084	83	18197	0.339	ug/l	94
28) 1,1,1-Trichloroethane	5.313	97	14559	0.303	ug/l	96
29) 1,1-Dichloropropene	5.525	75	11661	0.306	ug/l	98
30) Carbon Tetrachloride	5.525	117	13526	0.322	ug/l	91
31) Isopropyl Ether	3.988	45	23074	0.329	ug/l	99
32) Ethyl-t-butyl ether	4.496	59	21059	0.311	ug/l	100
33) Tert-Amyl methyl ether	5.936	73	17419	0.300	ug/l	99
34) Propionitrile	4.817	54	1856	1.025	ug/l	# 11
35) Benzene	5.776	78	35930	0.312	ug/l	96
36) 1,2-Dichloroethane	5.795	62	10889	0.348	ug/l	# 86
37) Trichloroethene	6.541	130	9233	0.308	ug/l	90
38) 1,2-Dichloropropane	6.788	63	9695	0.322	ug/l	95
39) Methacrylonitrile	5.004	41	2269m	0.336	ug/l	
40) Methyl acrylate	4.882	55	2810	0.258	ug/l	# 72
41) Tetrahydrofuran	5.078	42	2763	0.722	ug/l	# 42
42) 1-Chlorobutane	5.457	56	16231	0.320	ug/l	98
43) Dibromomethane	6.917	93	4569	0.319	ug/l	95
44) Bromodichloromethane	7.100	83	11924	0.315	ug/l	# 96

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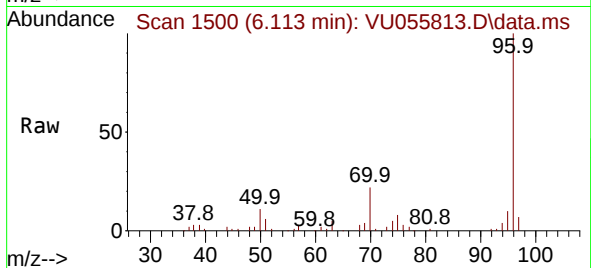
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.795	43	21261	1.436	ug/l	96
46) t-1,4-Dichloro-2-butene	10.830	75	3205m	0.544	ug/l	
47) Methyl methacrylate	6.968	69	6552	0.555	ug/l #	95
48) Ethyl methacrylate	8.335	69	6574	0.293	ug/l	100
49) Toluene	7.968	92	20353	0.298	ug/l	94
50) t-1,3-Dichloropropene	8.216	75	9916	0.296	ug/l	96
51) cis-1,3-Dichloropropene	7.608	75	12423	0.303	ug/l	98
52) 1,1,2-Trichloroethane	8.399	97	6505	0.318	ug/l	93
53) 1,3-Dichloropropane	8.576	76	11040	0.316	ug/l	97
54) 2-Hexanone	8.692	43	14914	0.899	ug/l	95
55) Dibromochloromethane	8.804	129	7701	0.312	ug/l	99
56) 1,2-Dibromoethane	8.923	107	6112	0.327	ug/l	97
58) Tetrachloroethene	8.550	164	10232	0.328	ug/l	89
59) Chlorobenzene	9.447	112	23407	0.311	ug/l	96
60) 1,1,1,2-Tetrachloroethane	9.528	131	7953	0.296	ug/l	98
61) Pentachloroethane	11.418	117	5387	0.296	ug/l	99
62) Hexachloroethane	12.470	117	4820	0.250	ug/l	99
63) Ethyl Benzene	9.570	91	37943	0.297	ug/l	99
64) m/p-Xylenes	9.695	106	27893	0.567	ug/l	99
65) o-Xylene	10.097	106	13922	0.289	ug/l	97
66) Styrene	10.119	104	20400	0.270	ug/l	97
67) Bromoform	10.290	173	3815	0.288	ug/l #	95
69) Isopropylbenzene	10.483	105	34265	0.276	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.779	83	7525	0.315	ug/l	97
71) 1,2,3-Trichloropropane	10.820	75	5816m	0.293	ug/l	
72) Bromobenzene	10.785	156	9088	0.307	ug/l	97
73) n-propylbenzene	10.907	120	8313	0.260	ug/l	95
74) 2-Chlorotoluene	10.984	126	8950	0.301	ug/l	99
75) 1,3,5-Trimethylbenzene	11.087	105	28577	0.269	ug/l	97
76) 4-Chlorotoluene	11.100	126	8503	0.280	ug/l	94
77) tert-Butylbenzene	11.418	119	25973	0.267	ug/l	93
78) 1,2,4-Trimethylbenzene	11.467	105	28076	0.267	ug/l	96
79) sec-Butylbenzene	11.640	105	33844	0.275	ug/l	99
80) Nitrobenzene	13.229	77	893m	1.412	ug/l	
81) p-Isopropyltoluene	11.791	119	25878	0.262	ug/l	96
82) 1,3-Dichlorobenzene	11.746	146	17670	0.292	ug/l	95
83) 1,4-Dichlorobenzene	11.836	146	18709	0.320	ug/l	95
84) n-Butylbenzene	12.209	91	26522	0.314	ug/l	99
85) 1,2-Dichlorobenzene	12.213	146	17132	0.310	ug/l	95
86) 1,2-Dibromo-3-Chloropr...	13.007	75	926	0.271	ug/l #	69
87) 1,2,4-Trichlorobenzene	13.846	180	10027	0.334	ug/l	99
88) Hexachlorobutadiene	14.016	225	6349	0.304	ug/l	95
89) Naphthalene	14.097	128	14386	0.330	ug/l	96
90) 1,2,3-Trichlorobenzene	14.331	180	8435	0.328	ug/l	99

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



#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 1500
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

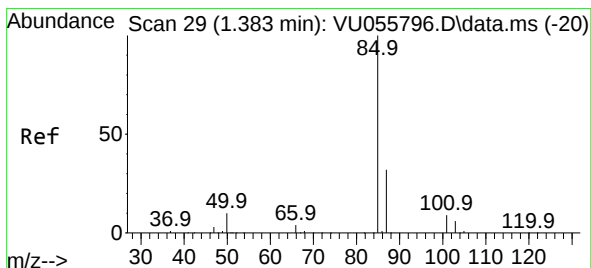
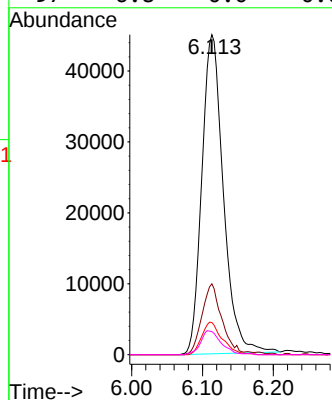
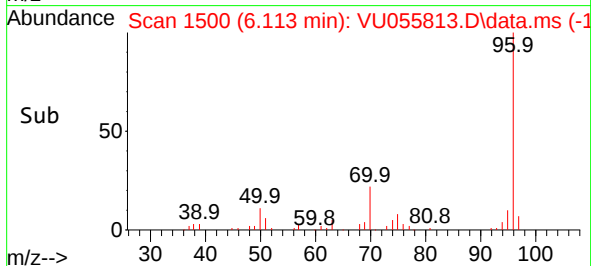
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



Tgt Ion: 96 Resp: 95059
Ion Ratio Lower Upper
96 100
70 19.4 16.5 24.7
95 9.7 7.4 11.0
97 6.8 0.0 0.0#

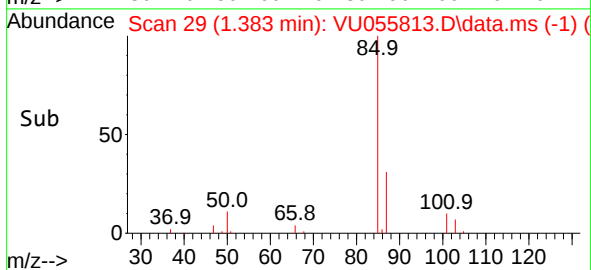
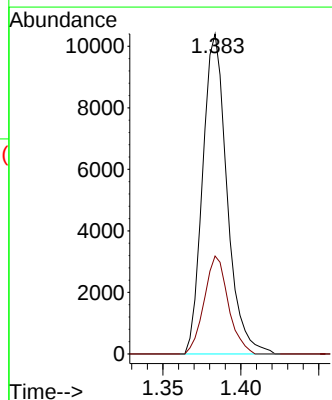
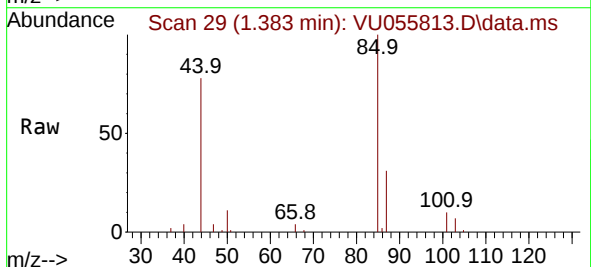
Manual Integrations
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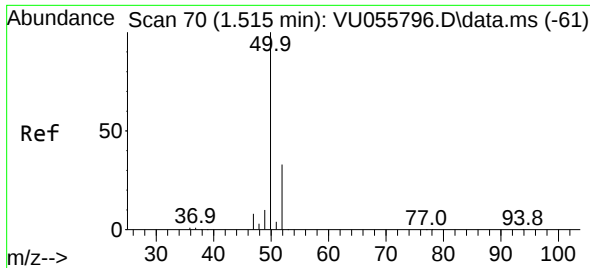
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#2
Dichlorodifluoromethane
Concen: 0.305 ug/l
RT: 1.383 min Scan# 29
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

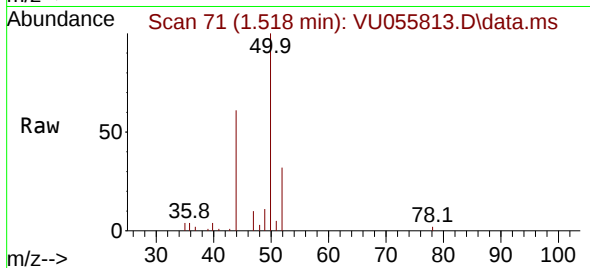
Tgt Ion: 85 Resp: 11272
Ion Ratio Lower Upper
85 100
87 30.6 16.2 48.6





#3
Chloromethane
Concen: 0.375 ug/l
RT: 1.518 min Scan# 70
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

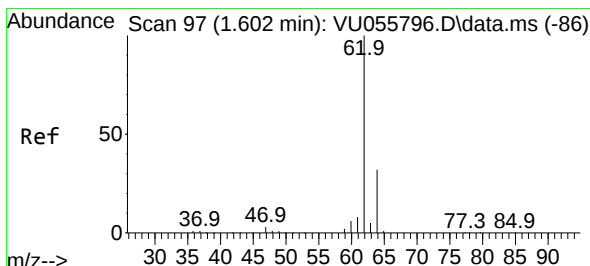
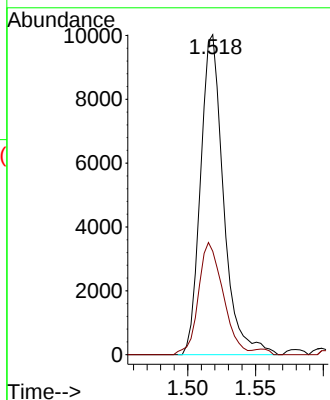
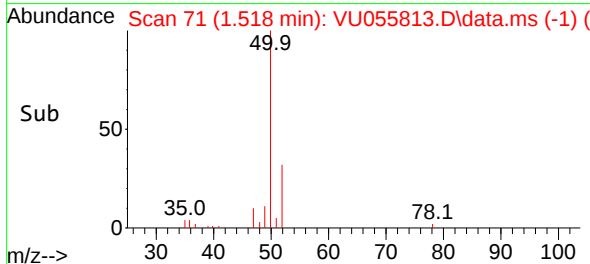
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 50 Resp: 1183
Ion Ratio Lower Upper
50 100
52 32.3 26.6 40.0

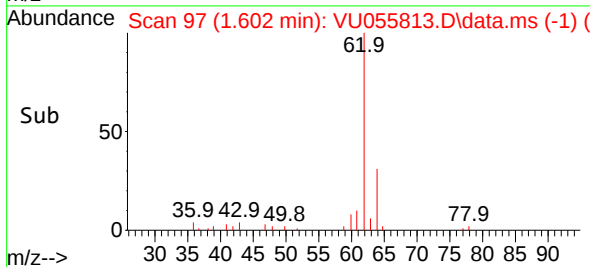
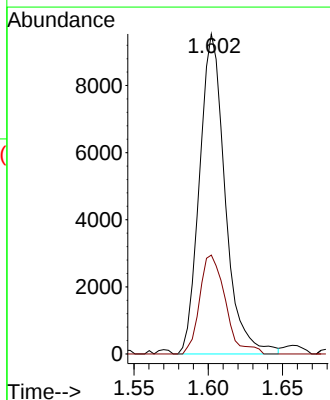
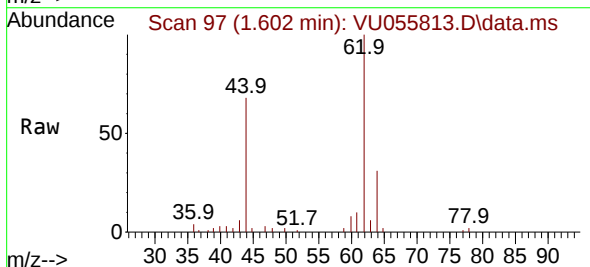
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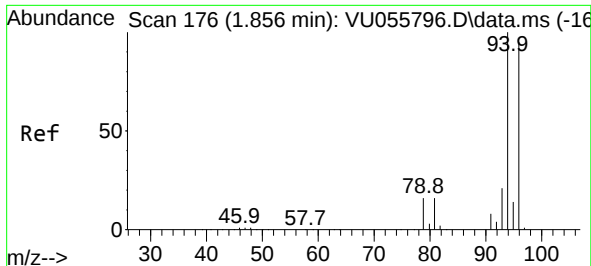
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#4
Vinyl Chloride
Concen: 0.354 ug/l
RT: 1.602 min Scan# 97
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

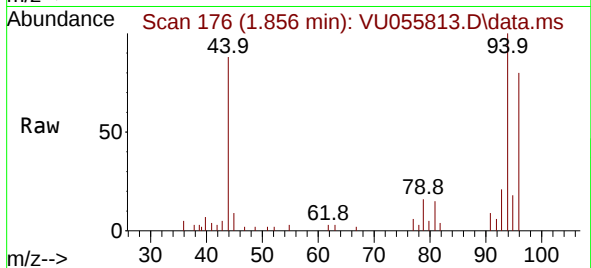
Tgt Ion: 62 Resp: 11458
Ion Ratio Lower Upper
62 100
64 30.9 25.4 38.2





#5
Bromomethane
Concen: 0.455 ug/l
RT: 1.856 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

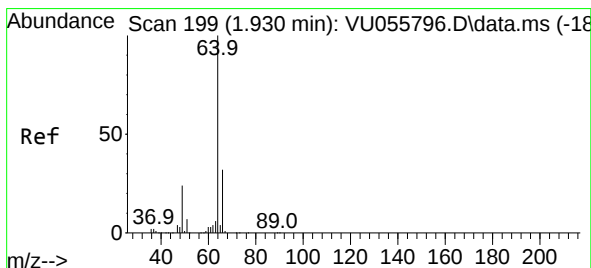
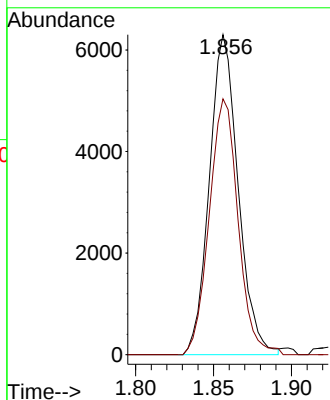
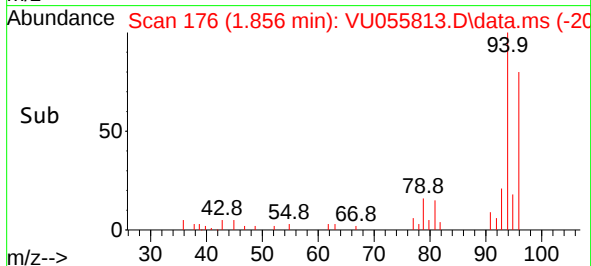
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 94 Resp: 8094
Ion Ratio Lower Upper
94 100
96 80.0 75.4 113.2

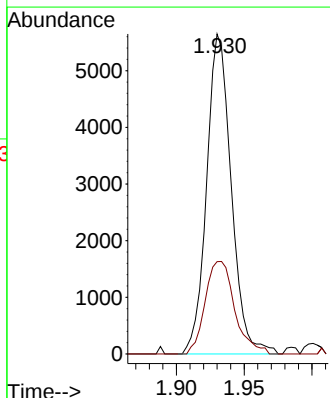
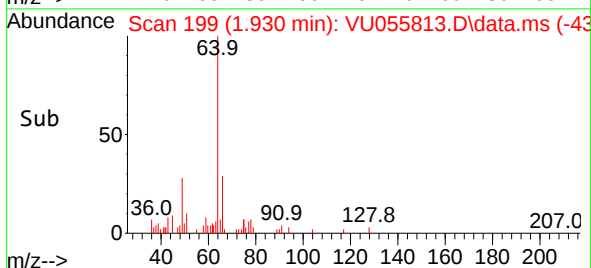
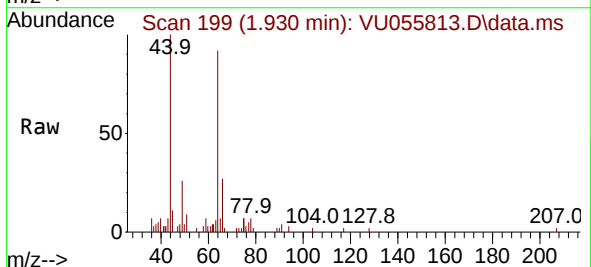
Manual Integrations
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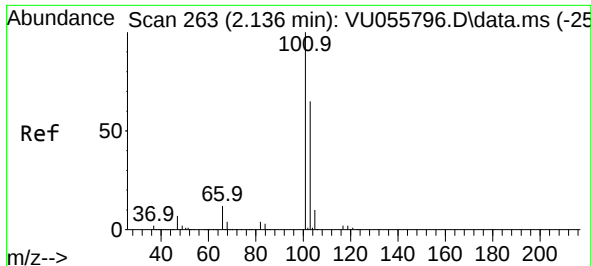
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#6
Chloroethane
Concen: 0.457 ug/l
RT: 1.930 min Scan# 199
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

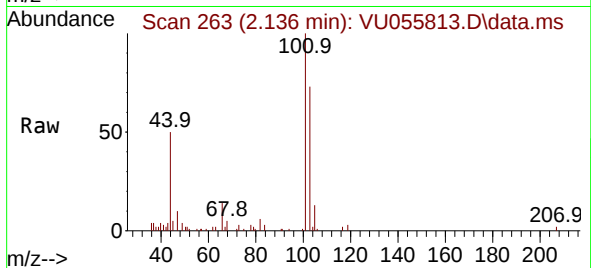
Tgt Ion: 64 Resp: 7150
Ion Ratio Lower Upper
64 100
66 28.9 26.0 39.0





#7
 Trichlorofluoromethane
 Concen: 0.334 ug/l
 RT: 2.136 min Scan# 201
 Delta R.T. -0.000 min
 Lab File: VU055813.D
 Acq: 19 Oct 2023 16:52

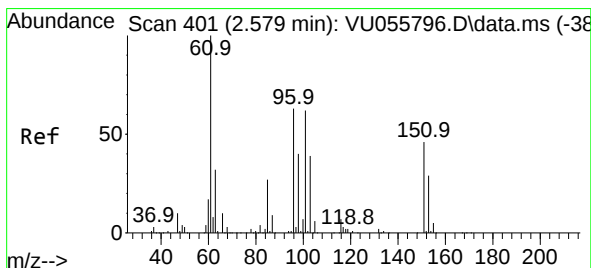
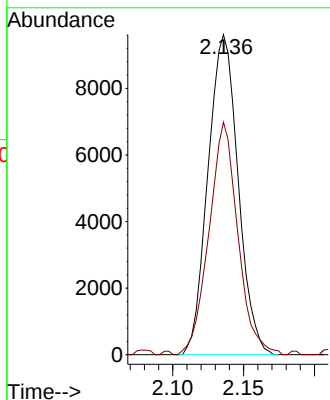
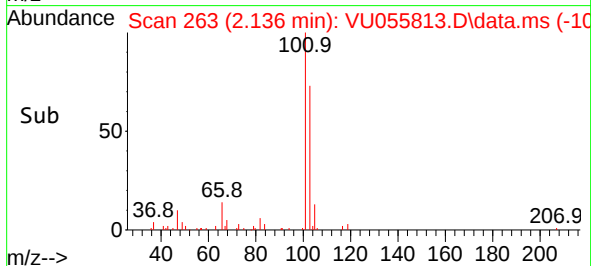
Instrument : MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023



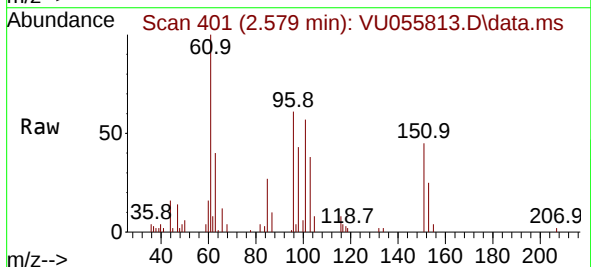
Tgt Ion:101 Resp: 14230
 Ion Ratio Lower Upper
 101 100
 103 72.6 51.4 77.0

Manual Integrations
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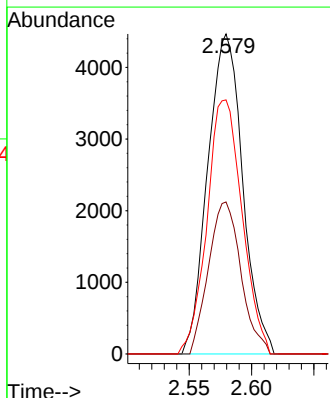
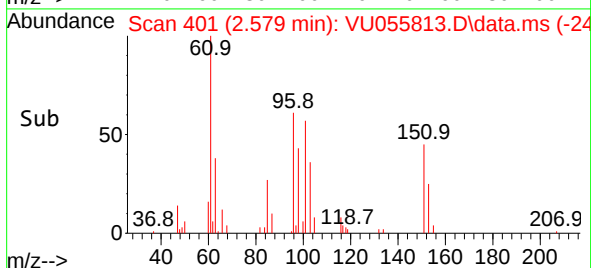
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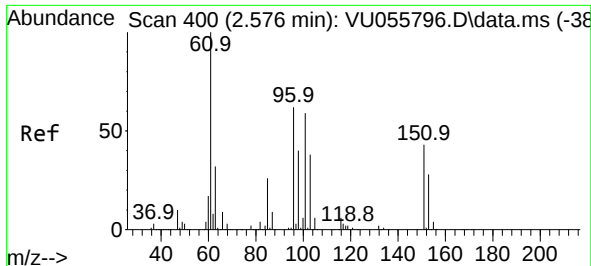


#8
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.306 ug/l
 RT: 2.579 min Scan# 401
 Delta R.T. 0.000 min
 Lab File: VU055813.D
 Acq: 19 Oct 2023 16:52



Tgt Ion:101 Resp: 8708
 Ion Ratio Lower Upper
 101 100
 85 44.1 35.4 53.0
 151 79.7 54.0 81.0





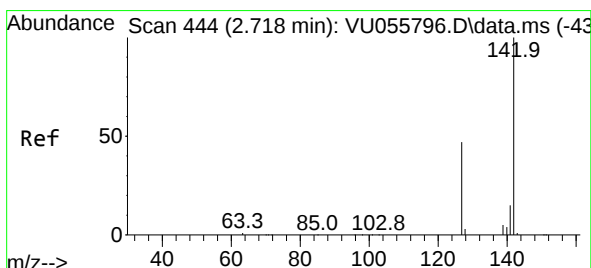
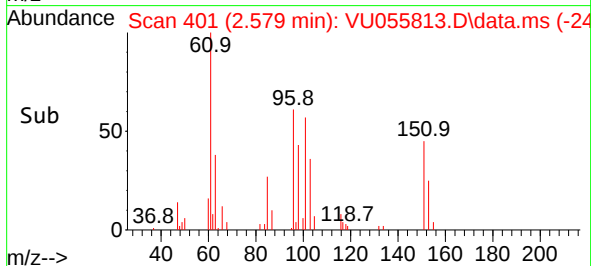
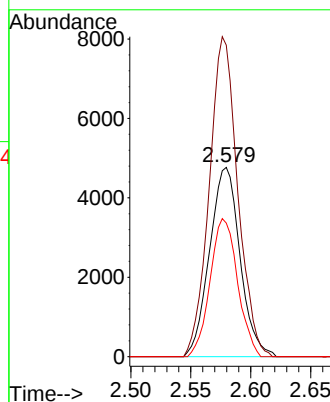
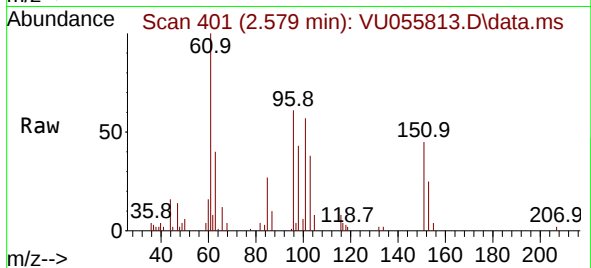
#9
1,1-Dichloroethene
Concen: 0.317 ug/l
RT: 2.579 min Scan# 401
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion: 96 Resp: 841
Ion Ratio Lower Upper
96 100
61 164.5 0.0 521.4
98 70.6 0.0 125.8

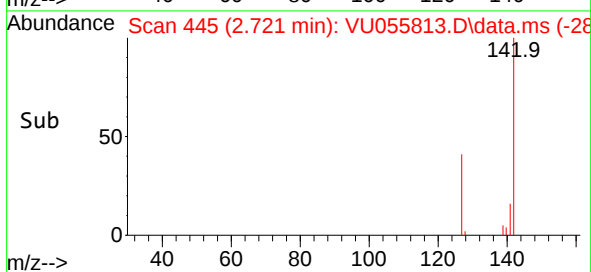
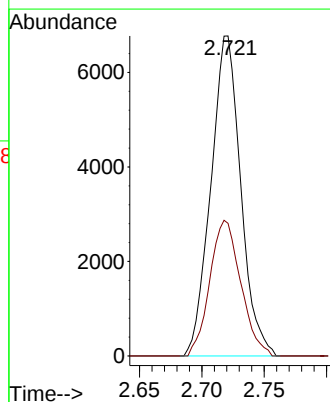
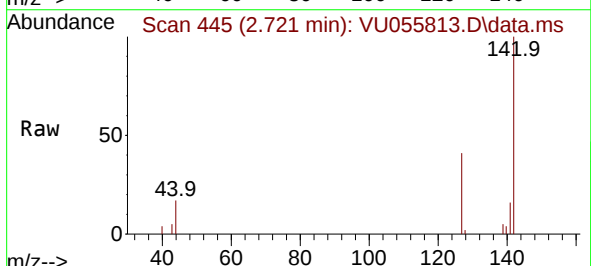
Manual Integrations
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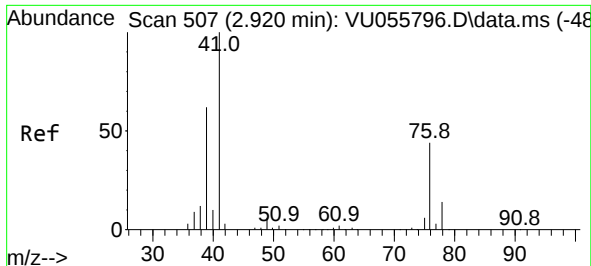
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#10
Iodomethane
Concen: 0.286 ug/l
RT: 2.721 min Scan# 445
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:142 Resp: 11307
Ion Ratio Lower Upper
142 100
127 43.9 35.9 53.9





#11

Allyl Chloride

Concen: 0.345 ug/l

RT: 2.920 min Scan# 507

Delta R.T. 0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 41 Resp: 11890

Ion Ratio Lower Upper

41 100

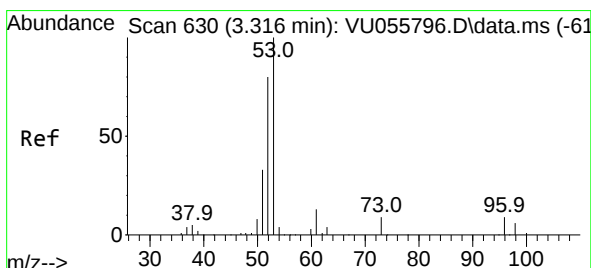
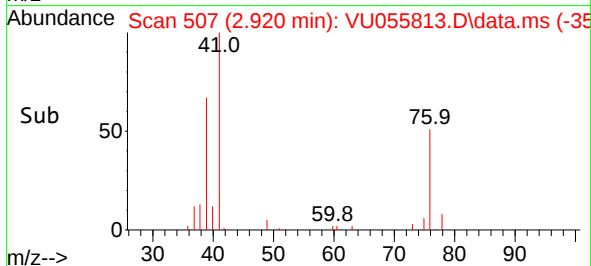
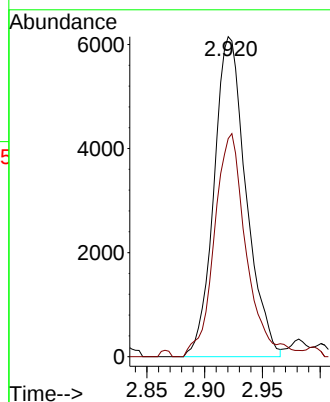
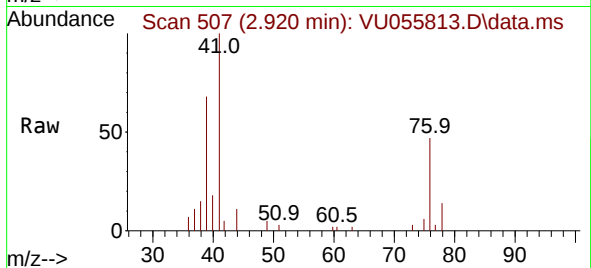
39 69.5 54.2 81.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#12

Acrylonitrile

Concen: 0.586 ug/l

RT: 3.342 min Scan# 638

Delta R.T. 0.026 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

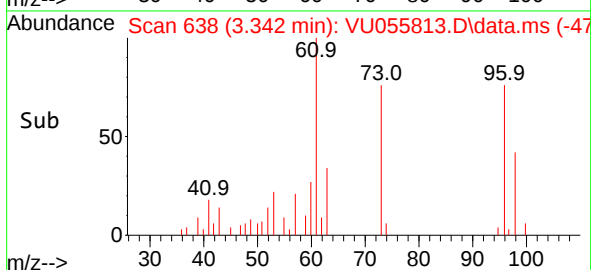
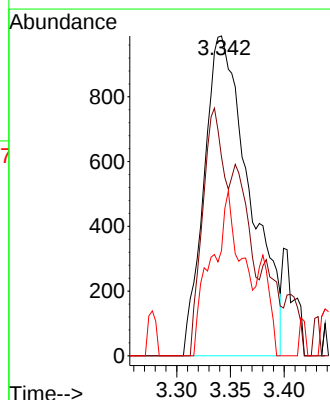
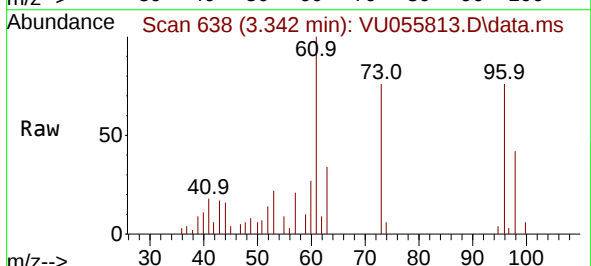
Tgt Ion: 53 Resp: 2920

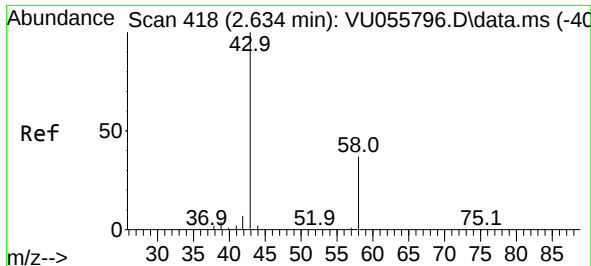
Ion Ratio Lower Upper

53 100

52 38.3 62.9 94.3#

51 34.1 27.8 41.6





#13

Acetone

Concen: 1.022 ug/l

RT: 2.650 min Scan# 418

Delta R.T. 0.016 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 43 Resp: 1086

Ion Ratio Lower Upper

43 100

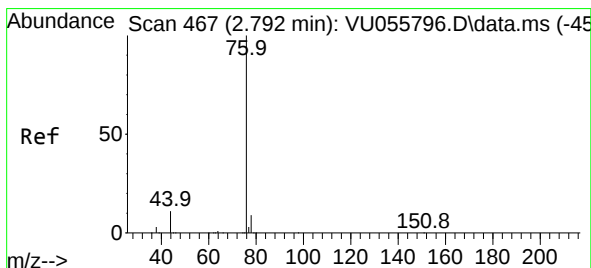
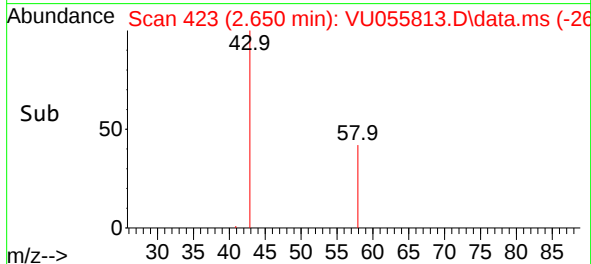
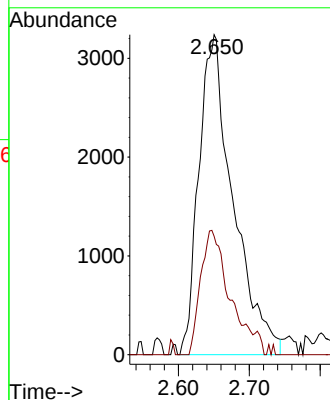
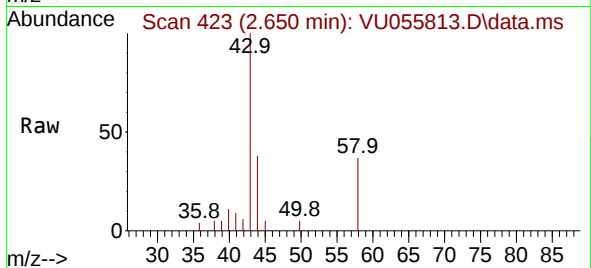
58 37.0 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#14

Carbon Disulfide

Concen: 0.325 ug/l

RT: 2.792 min Scan# 467

Delta R.T. -0.000 min

Lab File: VU055813.D

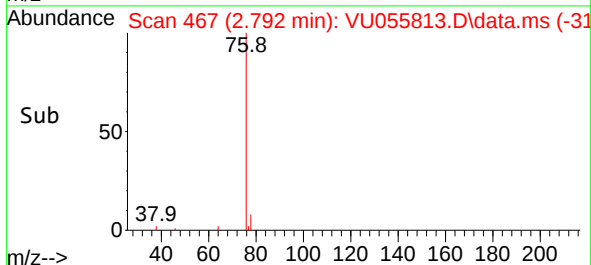
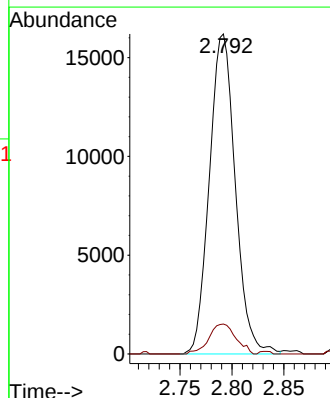
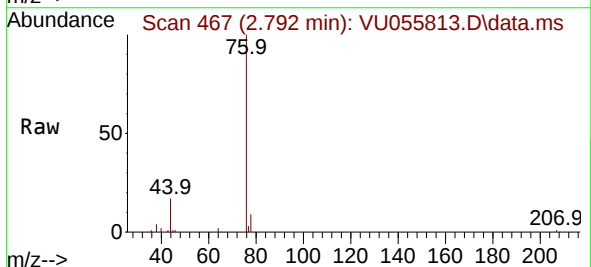
Acq: 19 Oct 2023 16:52

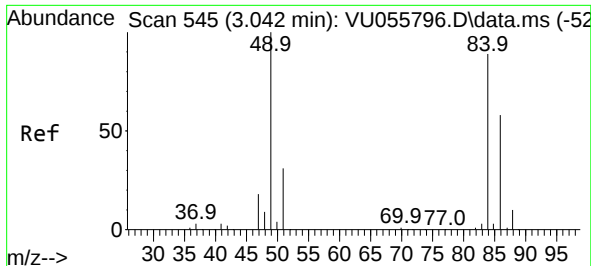
Tgt Ion: 76 Resp: 28153

Ion Ratio Lower Upper

76 100

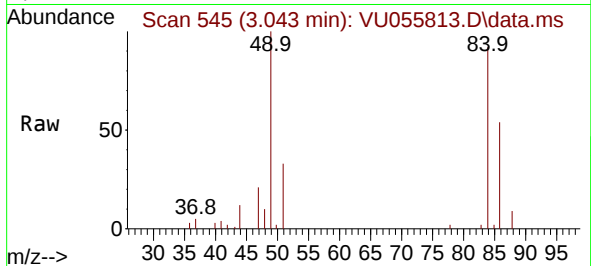
78 9.3 7.4 11.0





#15
Methylene Chloride
Concen: 0.404 ug/l
RT: 3.043 min Scan# 545
Delta R.T. 0.001 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

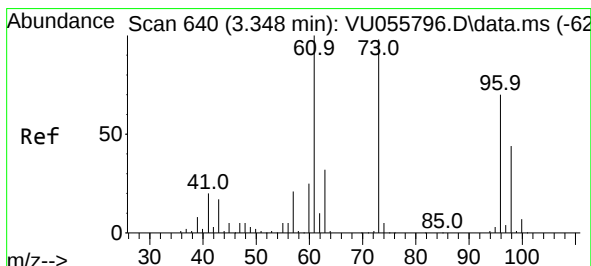
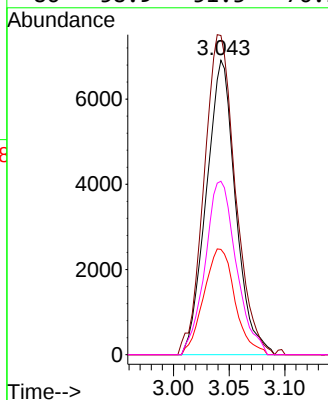
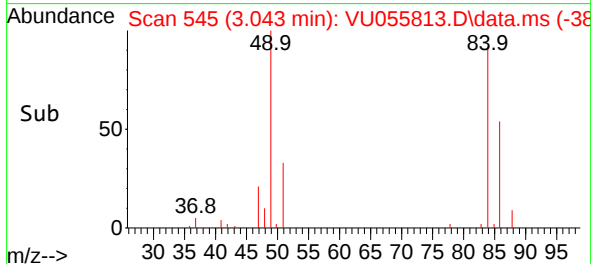
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 84 Resp: 12644
Ion Ratio Lower Upper
84 100
49 108.5 98.9 148.3
51 35.7 0.0 75.4
86 58.9 51.3 76.9

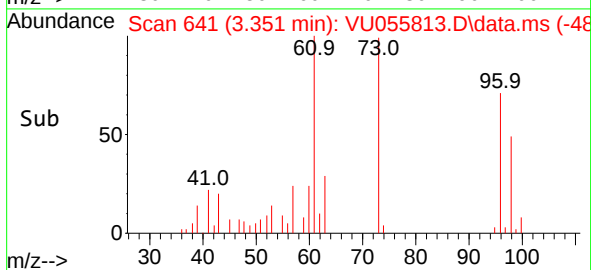
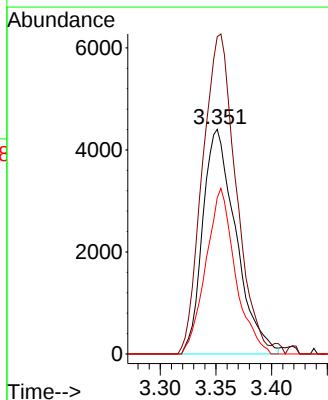
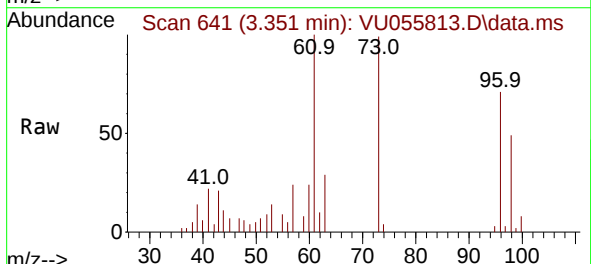
Manual Integrations
APPROVED

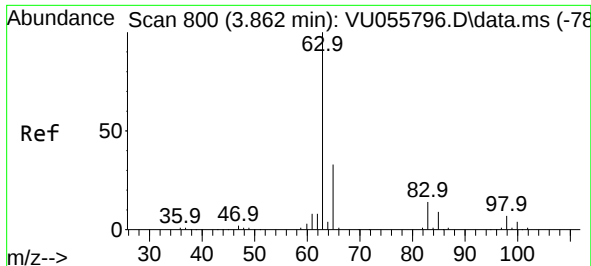
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#16
trans-1,2-Dichloroethene
Concen: 0.324 ug/l
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion: 96 Resp: 9105
Ion Ratio Lower Upper
96 100
61 141.2 117.5 176.3
98 69.6 48.3 72.5





#17

1,1-Dichloroethane

Concen: 0.330 ug/l

RT: 3.869 min Scan# 800

Delta R.T. 0.007 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

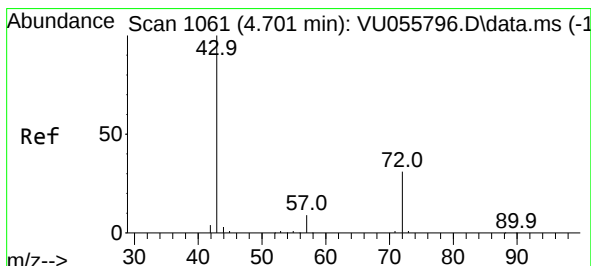
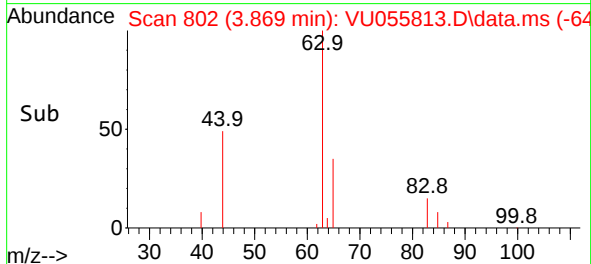
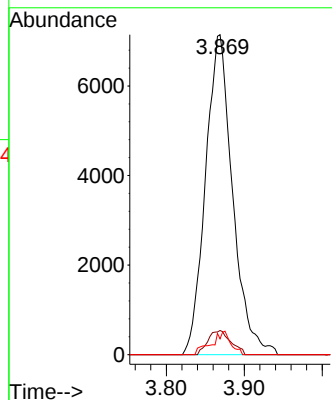
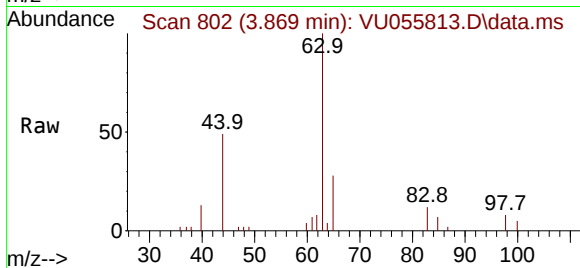
Tgt Ion:	63	Resp:	1726
Ion Ratio	Lower	Upper	
63	100		
98	7.6	3.4	10.1
100	5.0	2.2	6.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#18

2-Butanone

Concen: 0.877 ug/l

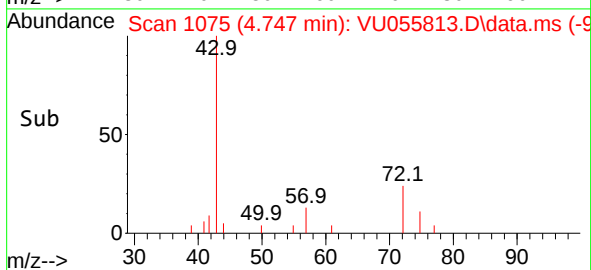
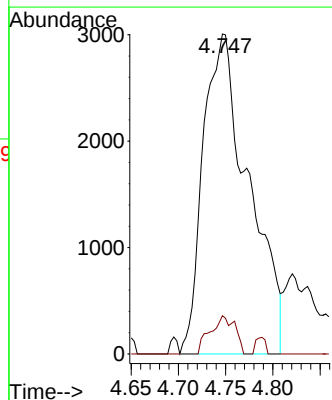
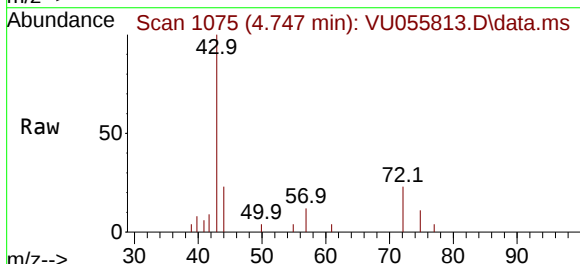
RT: 4.747 min Scan# 1075

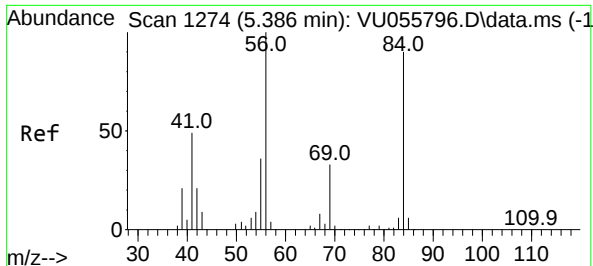
Delta R.T. 0.046 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion:	43	Resp:	10042
Ion Ratio	Lower	Upper	
43	100		
57	12.0	0.0	19.6





#19

Cyclohexane

Concen: 0.316 ug/l m

RT: 5.386 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

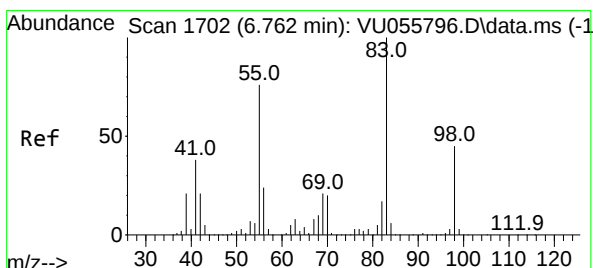
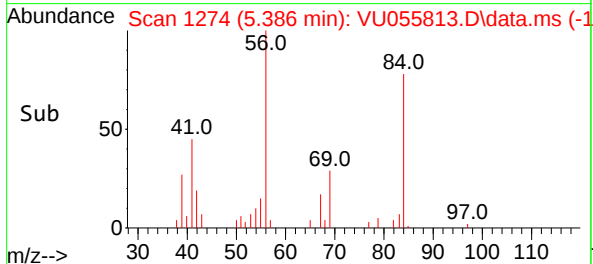
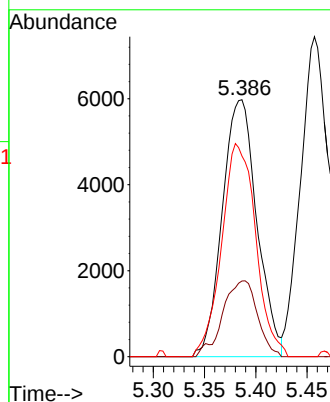
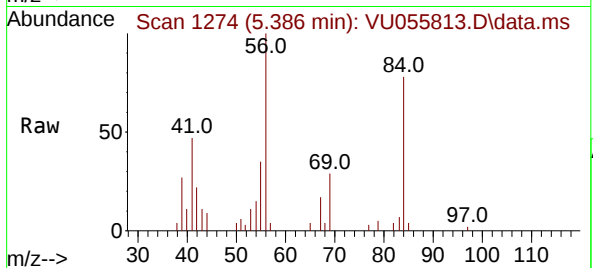
Tgt Ion:	56	Resp:	1407
Ion Ratio	Lower	Upper	
56	100		
69	29.4	24.6	37.0
84	81.6	68.4	102.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#20

Methylcyclohexane

Concen: 0.303 ug/l

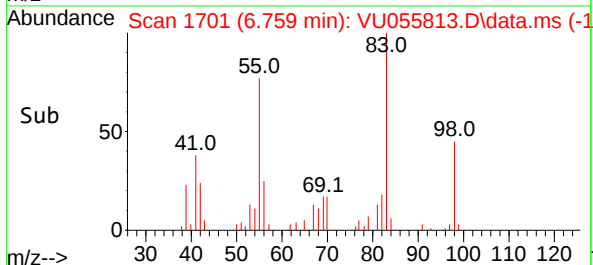
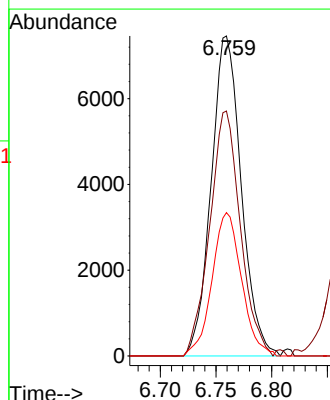
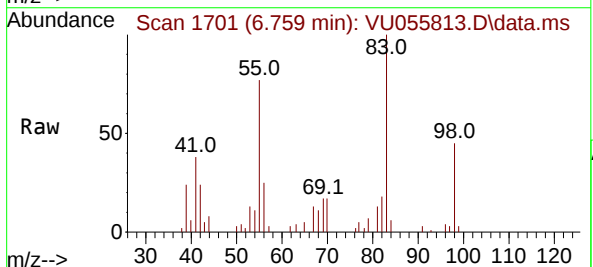
RT: 6.759 min Scan# 1701

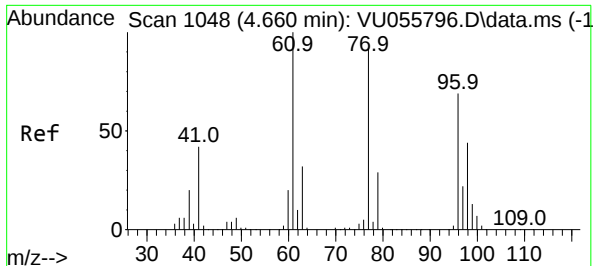
Delta R.T. -0.003 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion:	83	Resp:	14036
Ion Ratio	Lower	Upper	
83	100		
55	77.7	63.5	95.3
98	43.9	36.0	54.0





#21

2,2-Dichloropropane

Concen: 0.297 ug/l

RT: 4.660 min Scan# 1048

Delta R.T. -0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 77 Resp: 1308

Ion Ratio Lower Upper

77 100

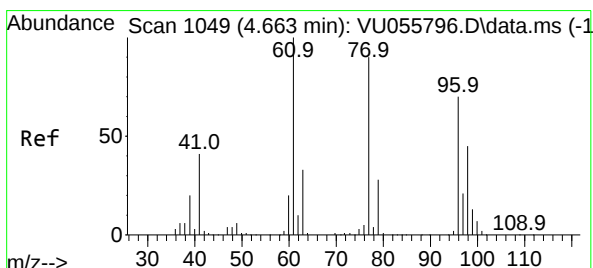
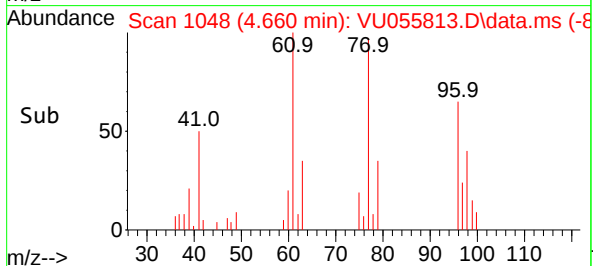
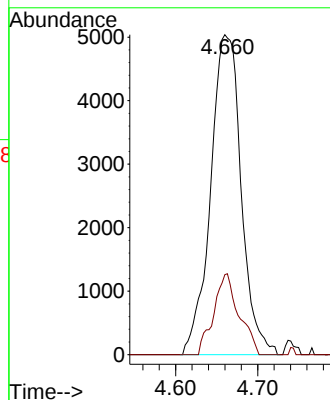
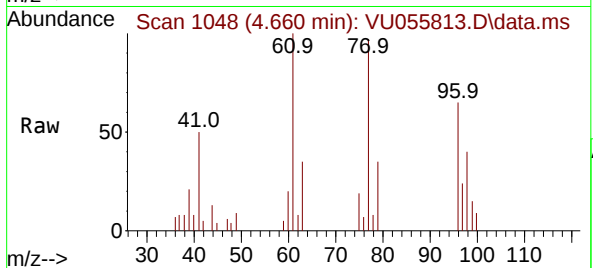
97 20.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#22

cis-1,2-Dichloroethene

Concen: 0.347 ug/l

RT: 4.669 min Scan# 1051

Delta R.T. 0.006 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

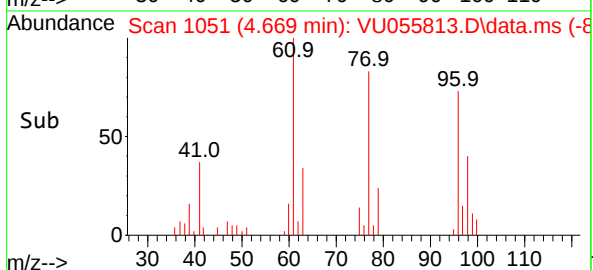
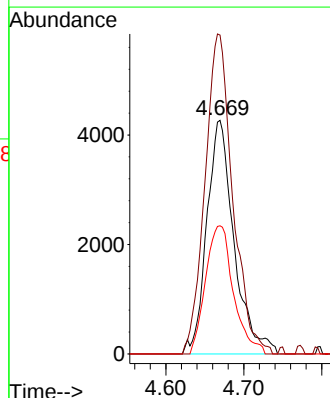
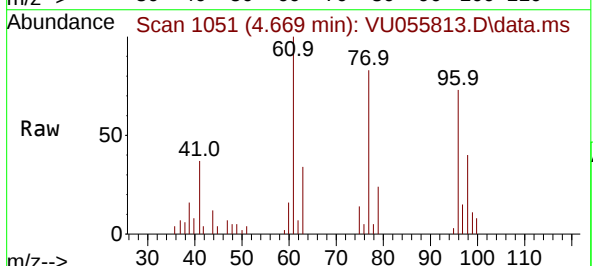
Tgt Ion: 96 Resp: 10382

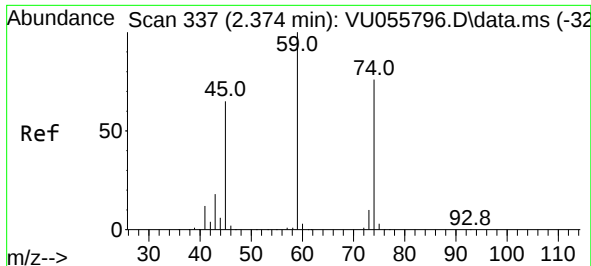
Ion Ratio Lower Upper

96 100

61 139.5 0.0 365.8

98 56.1 32.0 96.0





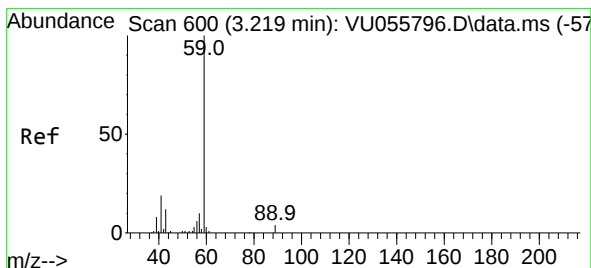
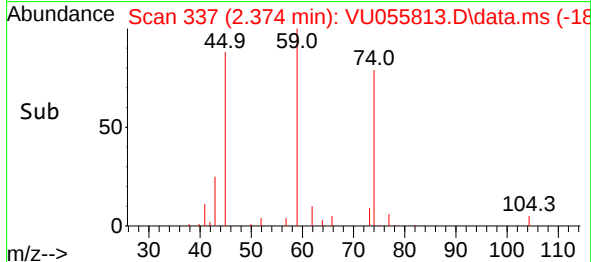
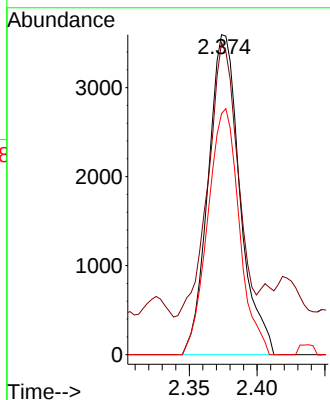
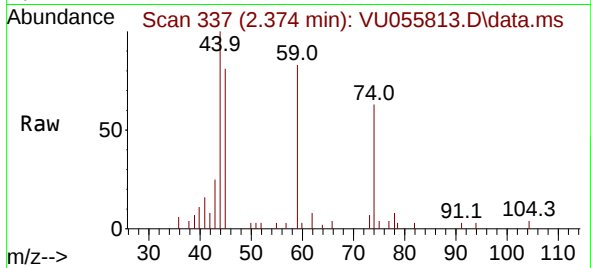
#23
Diethyl Ether
Concen: 0.370 ug/l
RT: 2.374 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion: 59 Resp: 5860
Ion Ratio Lower Upper
59 100
45 77.2 56.1 84.1
74 76.2 57.4 86.2

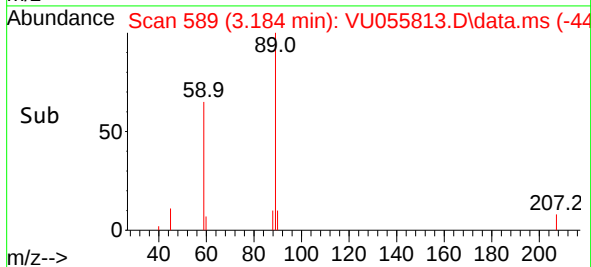
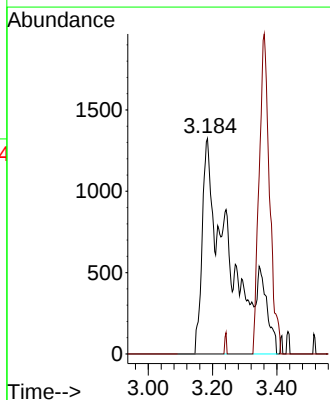
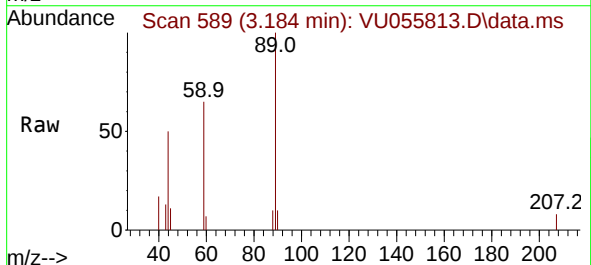
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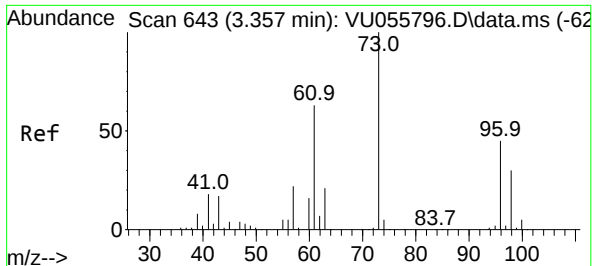
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#24
tert-Butyl Alcohol
Concen: 4.910 ug/l m
RT: 3.184 min Scan# 589
Delta R.T. -0.035 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

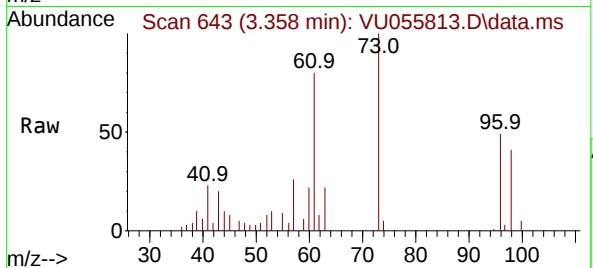
Tgt Ion: 59 Resp: 7982
Ion Ratio Lower Upper
59 100
57 0.0 105.6 158.4#





#25
Methyl tert-Butyl Ether
Concen: 0.321 ug/l
RT: 3.358 min Scan# 643
Delta R.T. 0.001 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

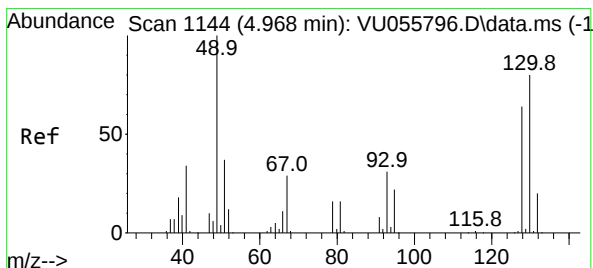
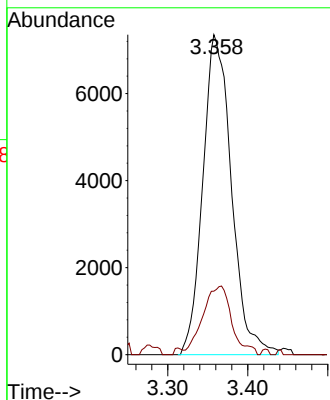
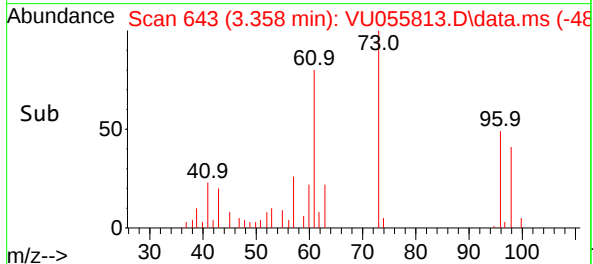
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 73 Resp: 1829
Ion Ratio Lower Upper
73 100
43 21.7 15.0 22.6

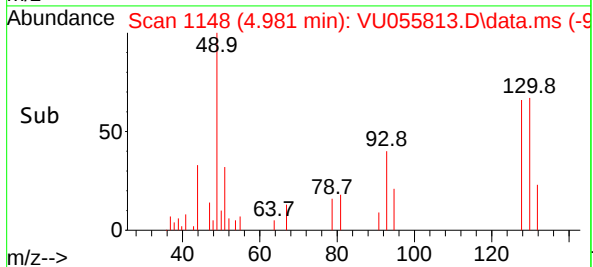
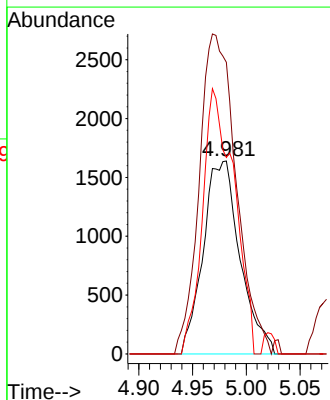
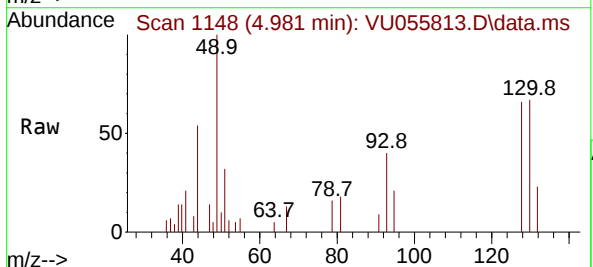
Manual Integrations
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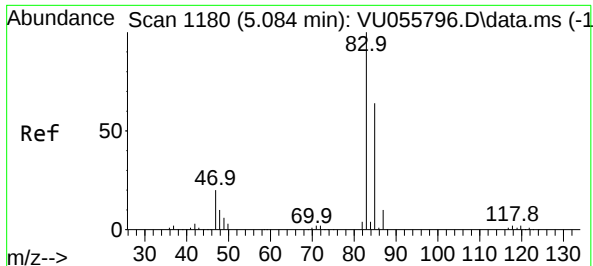
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#26
Bromochloromethane
Concen: 0.307 ug/l
RT: 4.981 min Scan# 1148
Delta R.T. 0.013 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:128 Resp: 3899
Ion Ratio Lower Upper
128 100
49 166.4 0.0 324.6
130 118.5 103.0 154.4





#27

Chloroform

Concen: 0.339 ug/l

RT: 5.084 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 83 Resp: 1819

Ion Ratio Lower Upper

83 100

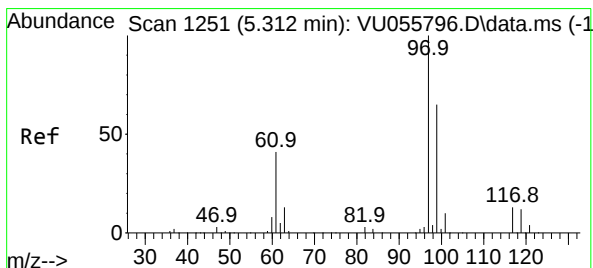
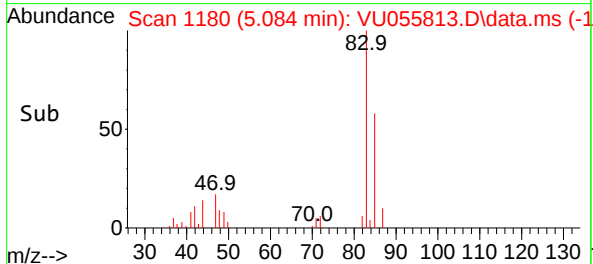
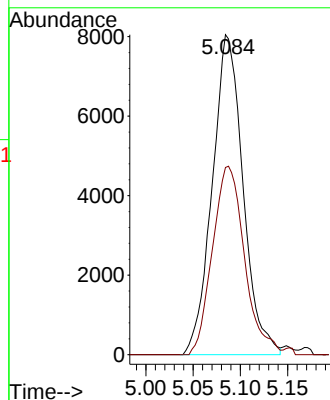
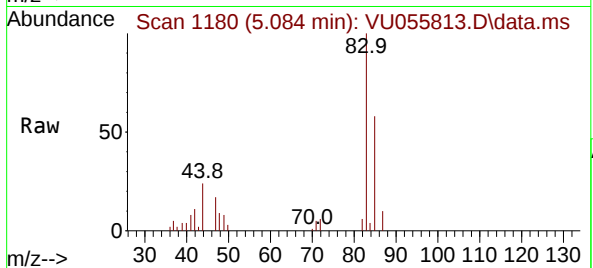
85 58.5 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#28

1,1,1-Trichloroethane

Concen: 0.303 ug/l

RT: 5.313 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

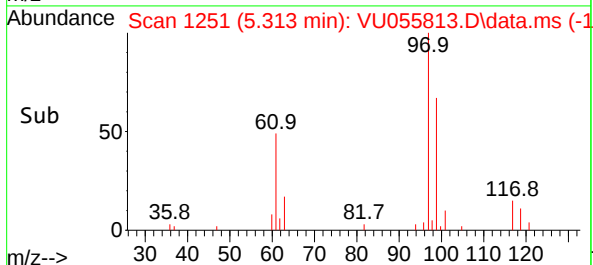
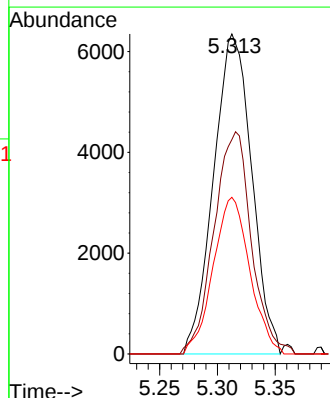
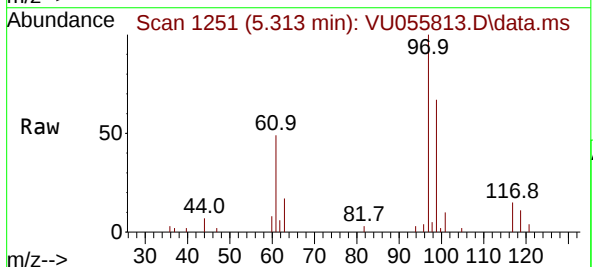
Tgt Ion: 97 Resp: 14559

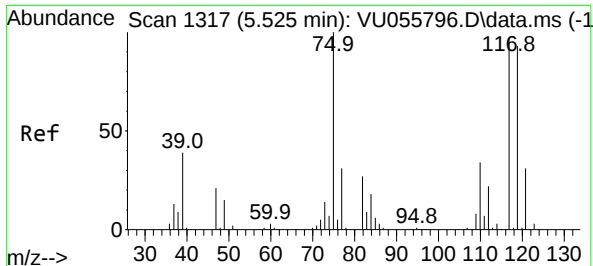
Ion Ratio Lower Upper

97 100

99 68.3 32.0 96.2

61 47.1 22.9 68.5





#29

1,1-Dichloropropene

Concen: 0.306 ug/l

RT: 5.525 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

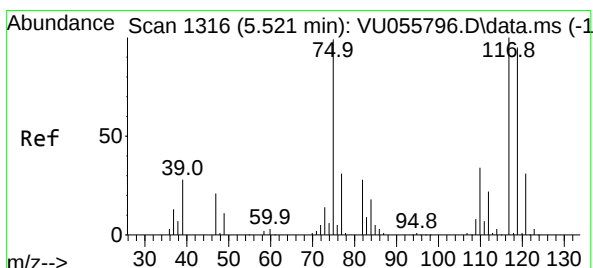
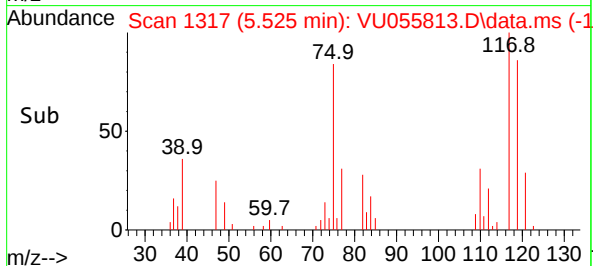
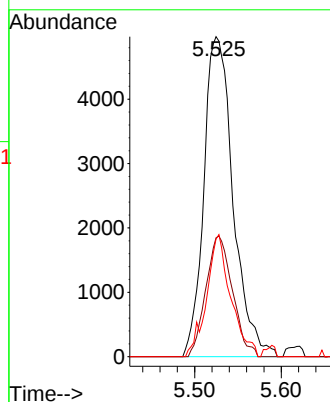
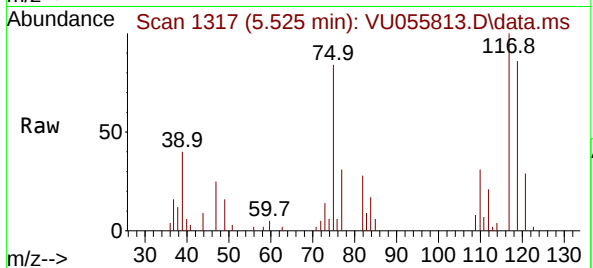
Tgt Ion:	75	Resp:	1166
Ion Ratio	Lower	Upper	
75	100		
110	34.2	18.0	54.0
77	31.4	24.7	37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#30

Carbon Tetrachloride

Concen: 0.322 ug/l

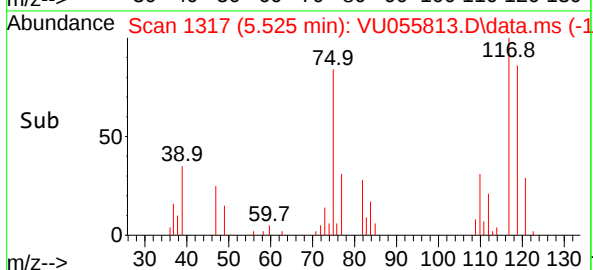
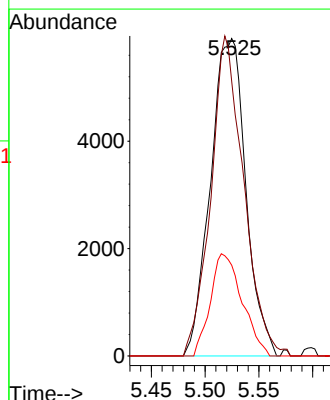
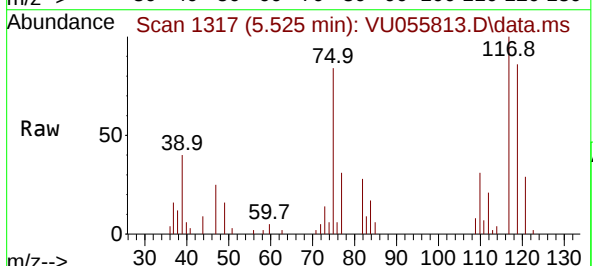
RT: 5.525 min Scan# 1317

Delta R.T. 0.004 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

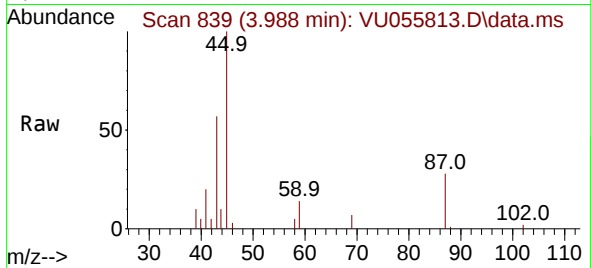
Tgt Ion:	117	Resp:	13526
Ion Ratio	Lower	Upper	
117	100		
119	86.5	77.4	116.0
121	28.6	24.0	36.0





#31
Isopropyl Ether
Concen: 0.329 ug/l
RT: 3.988 min Scan# 839
Delta R.T. -0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

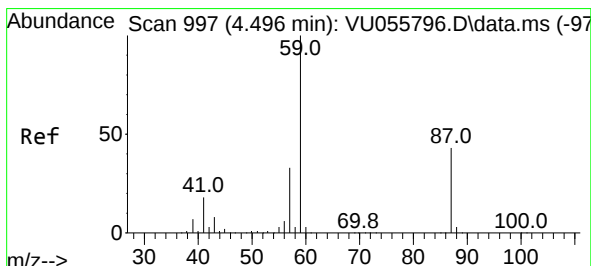
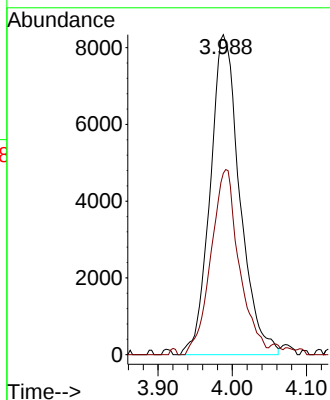
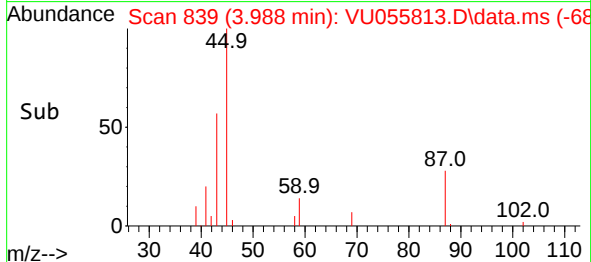
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



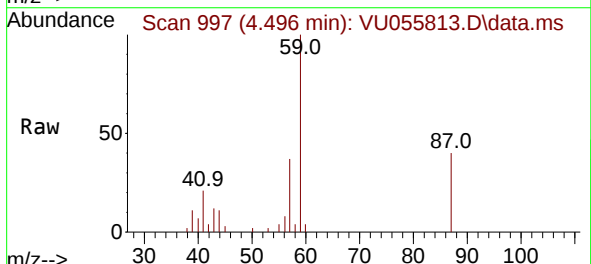
Tgt Ion: 45 Resp: 23074
Ion Ratio Lower Upper
45 100
43 55.5 27.5 82.5

Manual Integrations
APPROVED

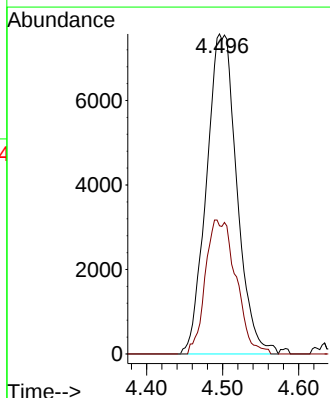
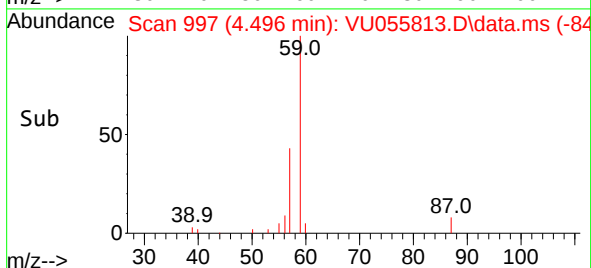
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

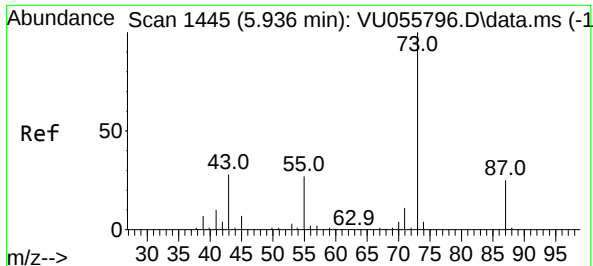


#32
Ethyl-t-butyl ether
Concen: 0.311 ug/l
RT: 4.496 min Scan# 997
Delta R.T. -0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



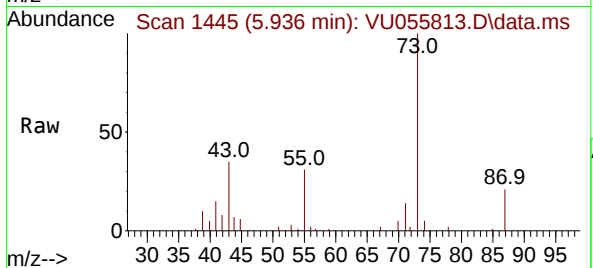
Tgt Ion: 59 Resp: 21059
Ion Ratio Lower Upper
59 100
87 42.1 33.5 50.3





#33
Tert-Amyl methyl ether
Concen: 0.300 ug/l
RT: 5.936 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

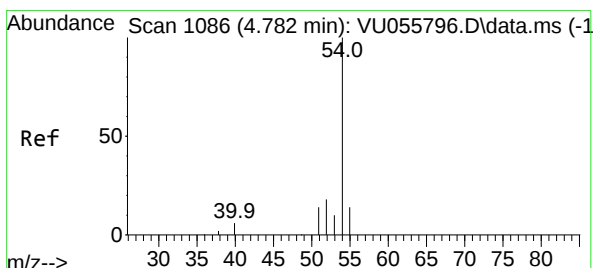
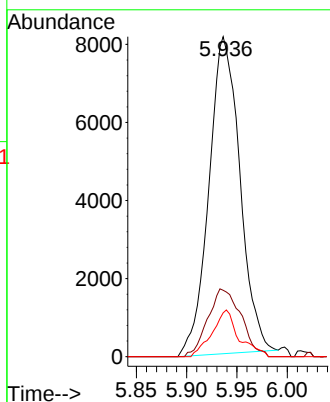
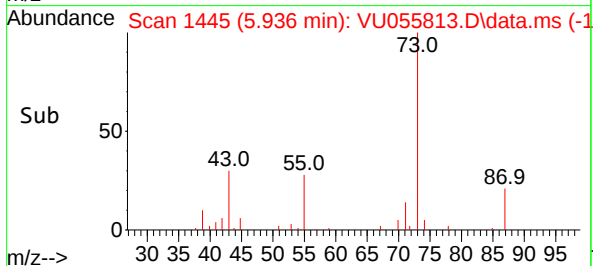
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-03-QT4-2023



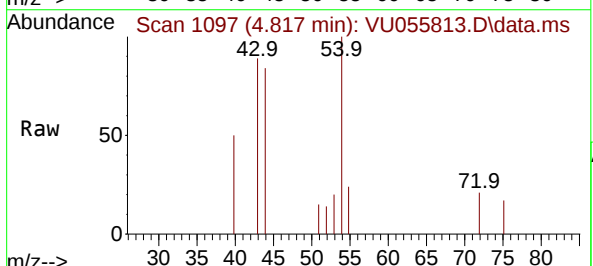
Tgt Ion: 73 Resp: 17419
Ion Ratio Lower Upper
73 100
87 22.9 18.6 28.0
71 12.7 9.9 14.9

Manual Integrations
APPROVED

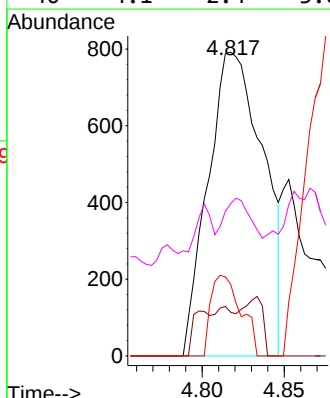
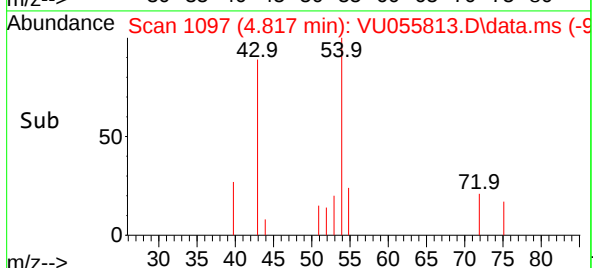
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

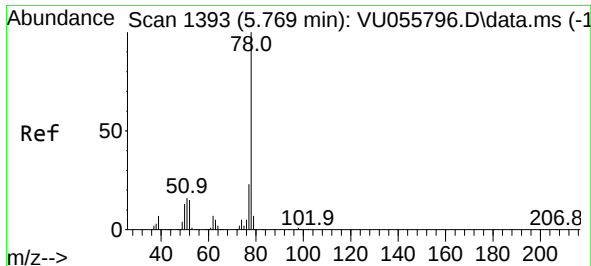


#34
Propionitrile
Concen: 1.025 ug/l
RT: 4.817 min Scan# 1097
Delta R.T. 0.035 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



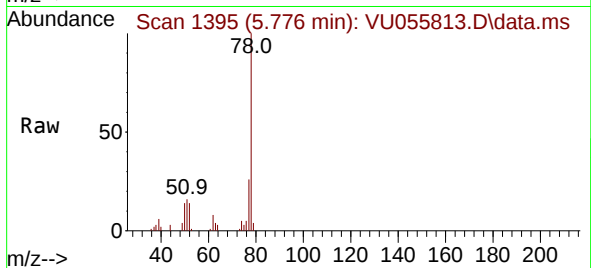
Tgt Ion: 54 Resp: 1856
Ion Ratio Lower Upper
54 100
52 4.6 17.4 26.0#
55 14.3 104.1 156.1#
40 4.1 2.4 3.6#





#35
Benzene
Concen: 0.312 ug/l
RT: 5.776 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

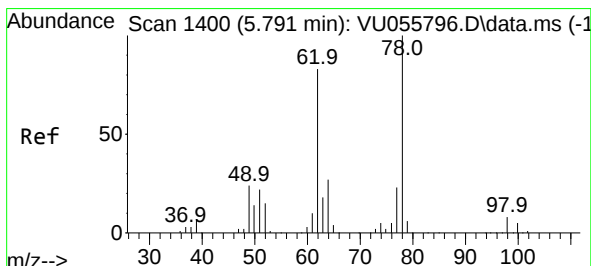
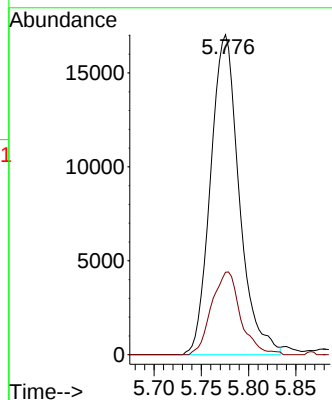
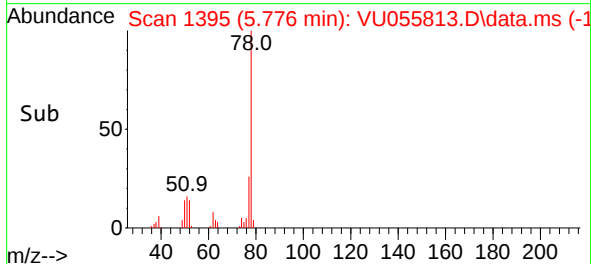
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



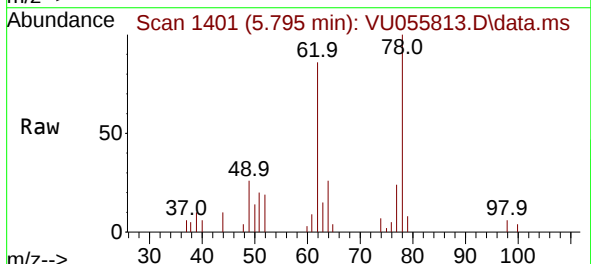
Tgt Ion: 78 Resp: 35930
Ion Ratio Lower Upper
78 100
77 25.8 18.9 28.3

Manual Integrations
APPROVED

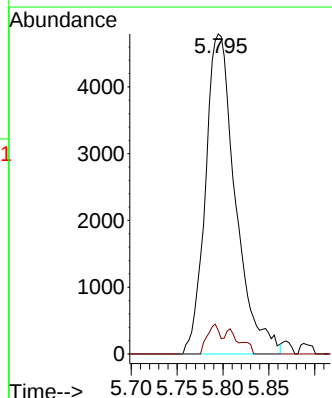
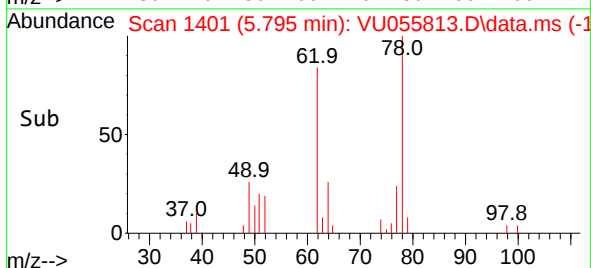
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

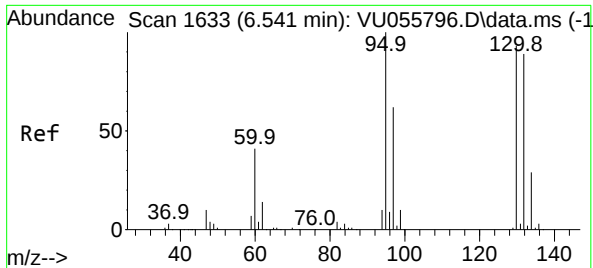


#36
1,2-Dichloroethane
Concen: 0.348 ug/l
RT: 5.795 min Scan# 1401
Delta R.T. 0.004 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



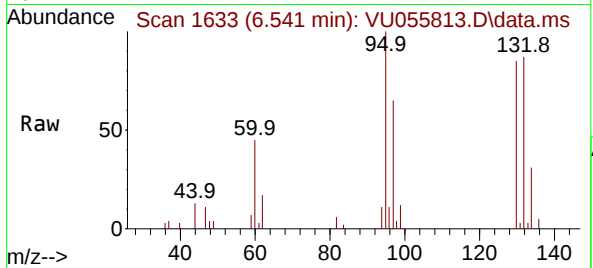
Tgt Ion: 62 Resp: 10889
Ion Ratio Lower Upper
62 100
98 3.9 7.3 10.9#





#37
Trichloroethene
Concen: 0.308 ug/l
RT: 6.541 min Scan# 110
Delta R.T. -0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

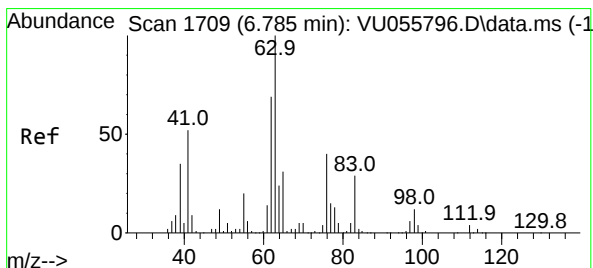
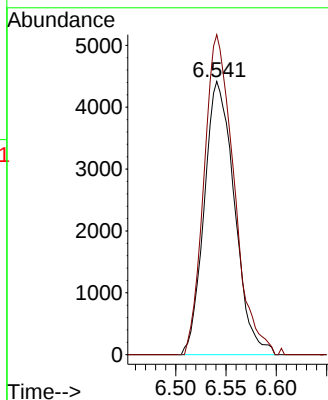
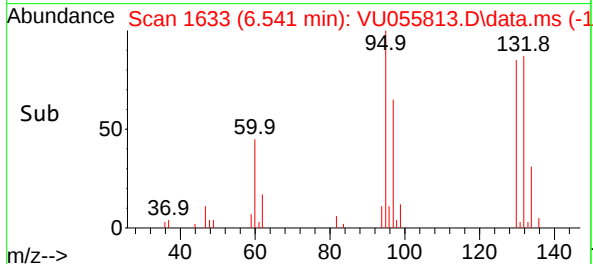
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



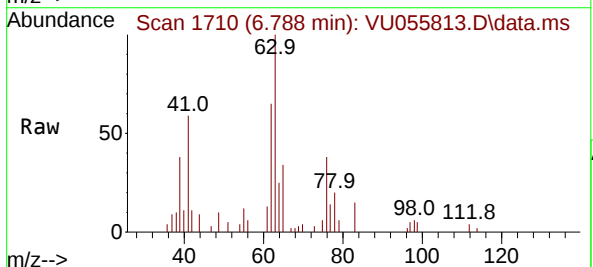
Tgt Ion:130 Resp: 923
Ion Ratio Lower Upper
130 100
95 117.1 85.0 127.6

Manual Integrations
APPROVED

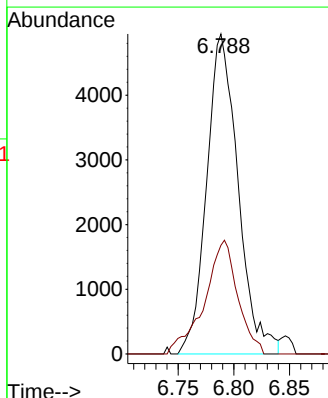
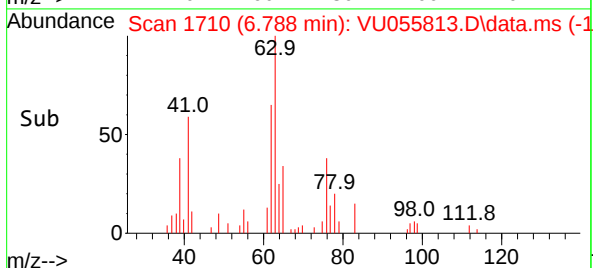
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#38
1,2-Dichloropropane
Concen: 0.322 ug/l
RT: 6.788 min Scan# 1710
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



Tgt Ion: 63 Resp: 9695
Ion Ratio Lower Upper
63 100
65 34.0 24.9 37.3





#39

Methacrylonitrile

Concen: 0.336 ug/l m

RT: 5.004 min Scan# 1155

Delta R.T. 0.036 min

Lab File: VU055813.D

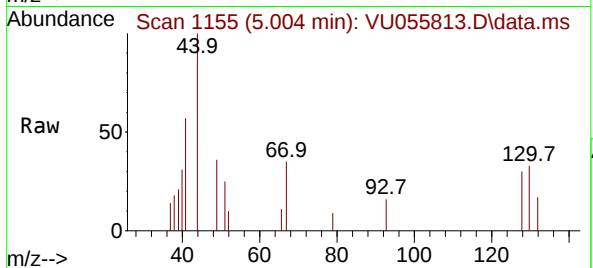
Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023



Tgt Ion: 41 Resp: 2269

Ion Ratio Lower Upper

41 100

67 37.9 66.8 100.2#

39 36.2 41.2 61.8#

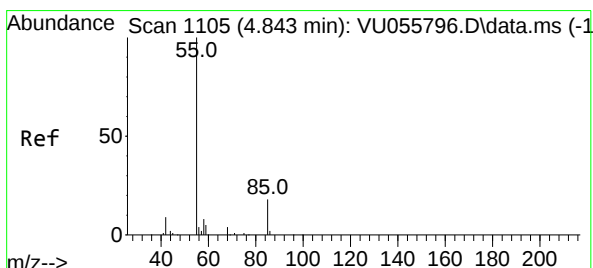
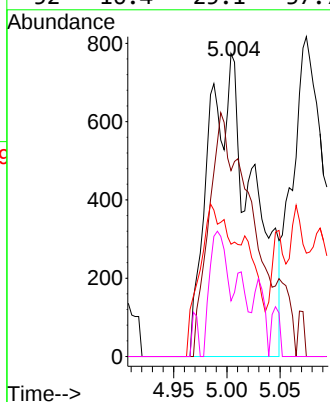
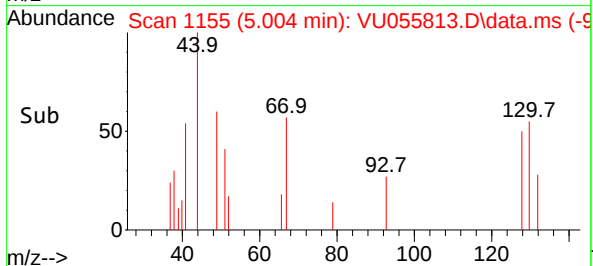
52 16.4 25.1 37.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#40

Methyl acrylate

Concen: 0.258 ug/l

RT: 4.882 min Scan# 1117

Delta R.T. 0.039 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion: 55 Resp: 2810

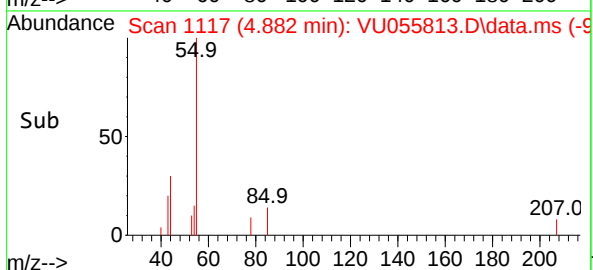
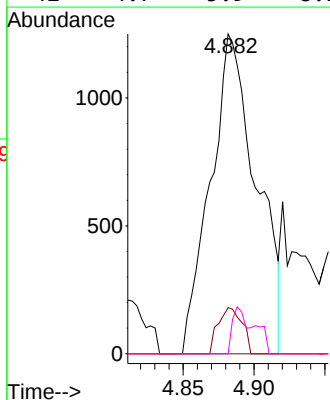
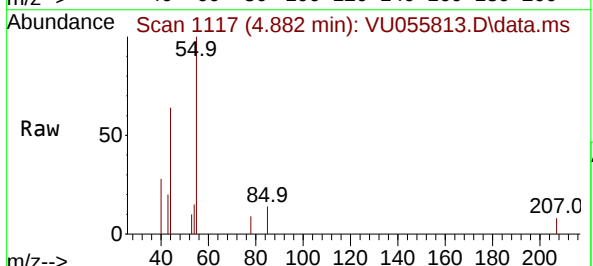
Ion Ratio Lower Upper

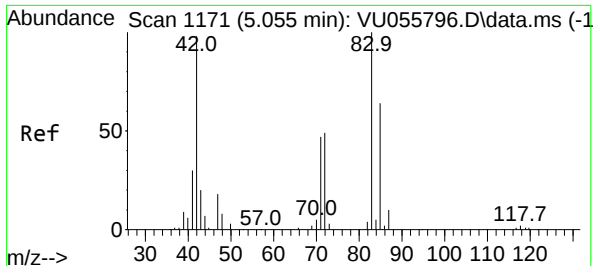
55 100

85 0.0 13.3 19.9#

58 0.0 6.5 9.7#

42 4.7 5.9 8.9#





#41

Tetrahydrofuran

Concen: 0.722 ug/l

RT: 5.078 min Scan# 1171

Delta R.T. 0.023 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 42 Resp: 276

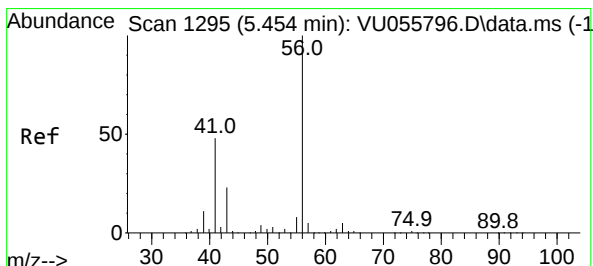
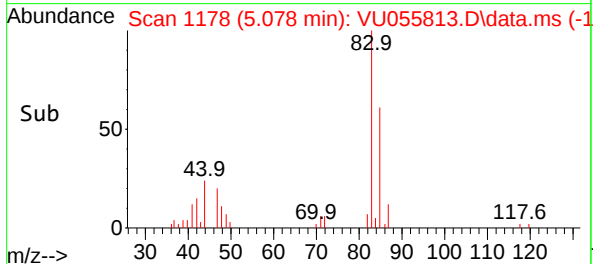
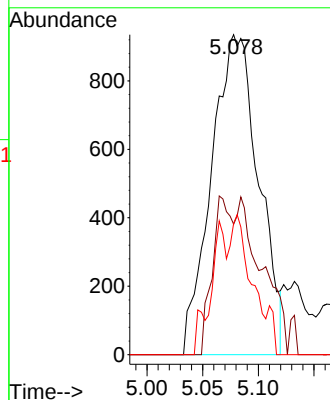
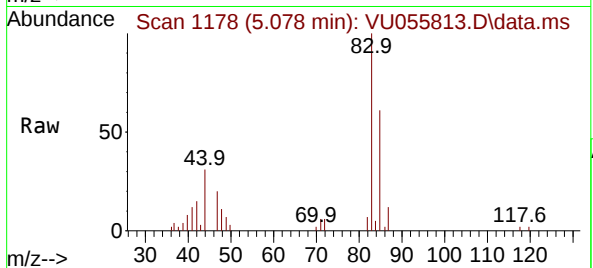
Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.9	61.3
71	19.3	36.9	55.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#42

1-Chlorobutane

Concen: 0.320 ug/l

RT: 5.457 min Scan# 1296

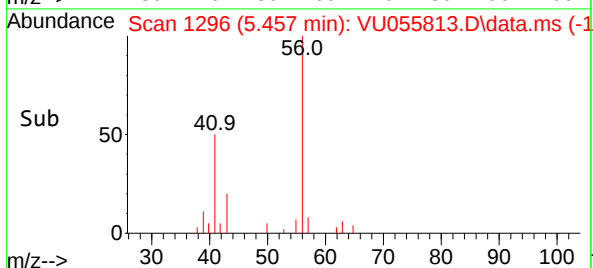
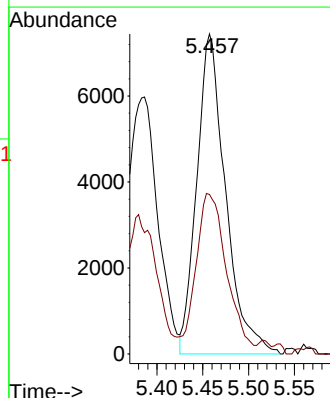
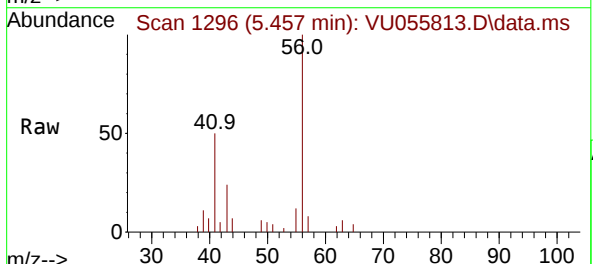
Delta R.T. 0.003 min

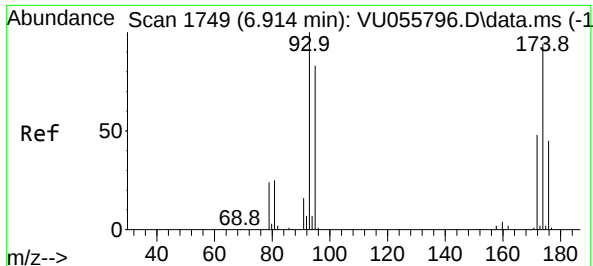
Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion: 56 Resp: 16231

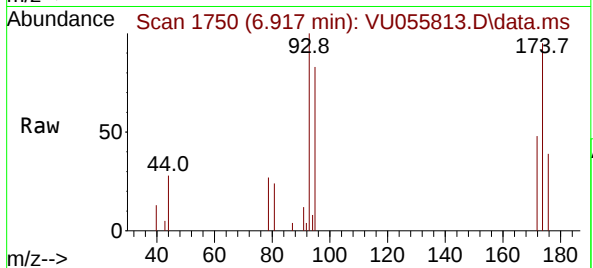
Ion	Ratio	Lower	Upper
56	100		
41	49.2	25.2	75.6





#43
Dibromomethane
Concen: 0.319 ug/l
RT: 6.917 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

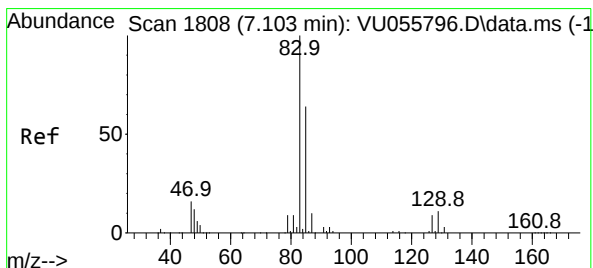
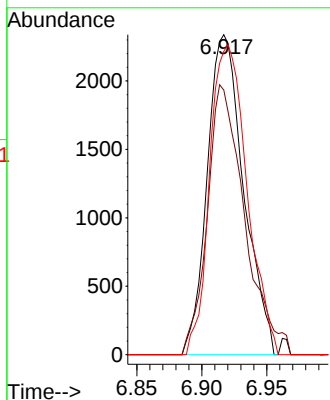
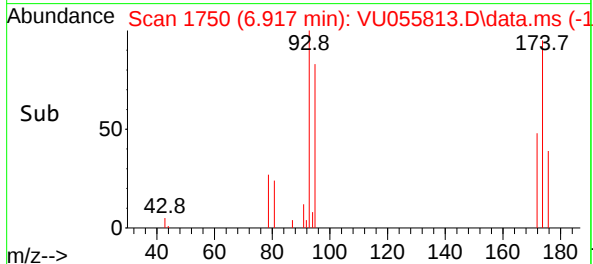
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 93 Resp: 4569
Ion Ratio Lower Upper
93 100
95 86.2 67.0 100.6
174 99.0 73.8 110.6

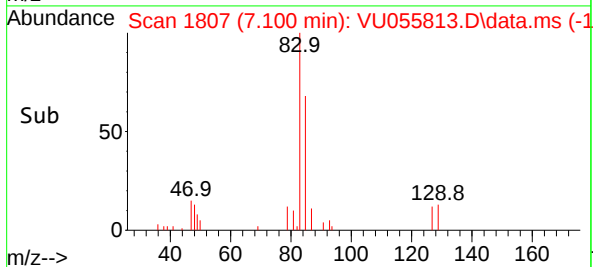
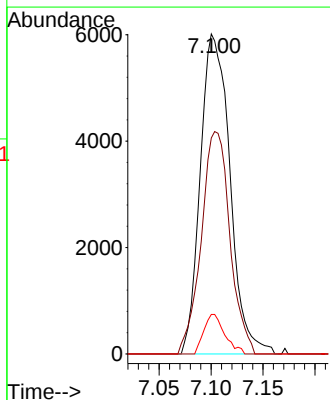
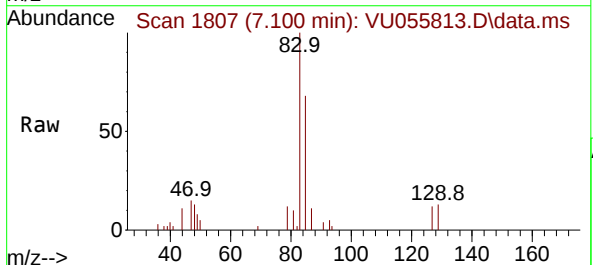
Manual Integrations
APPROVED

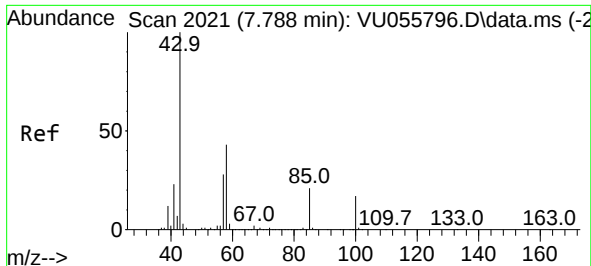
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#44
Bromodichloromethane
Concen: 0.315 ug/l
RT: 7.100 min Scan# 1807
Delta R.T. -0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion: 83 Resp: 11924
Ion Ratio Lower Upper
83 100
85 67.5 51.9 77.9
127 12.4 6.7 10.1#





#45

4-Methyl-2-Pentanone

Concen: 1.436 ug/l

RT: 7.795 min Scan# 2021

Delta R.T. 0.007 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

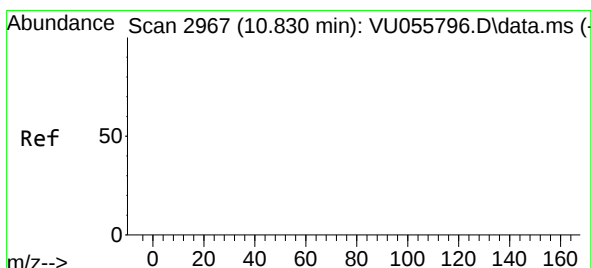
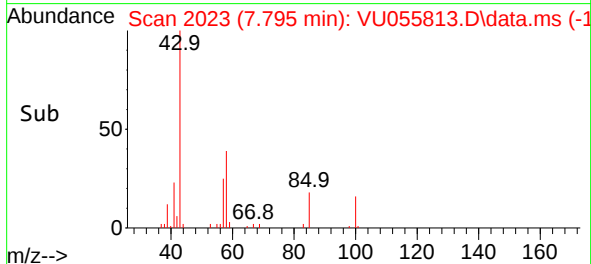
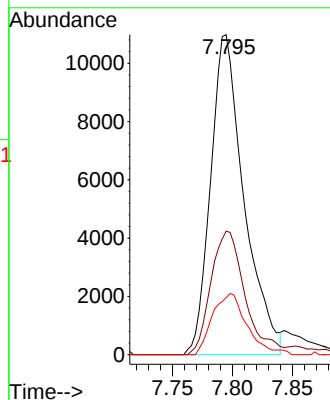
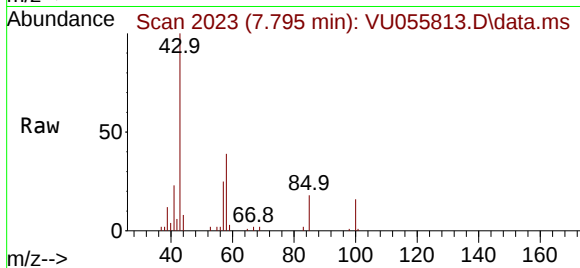
Tgt Ion: 43	Resp: 2126
Ion Ratio	Lower Upper
43 100	
58 39.4	20.9 62.8
85 19.7	14.6 21.8

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: 0.544 ug/l m

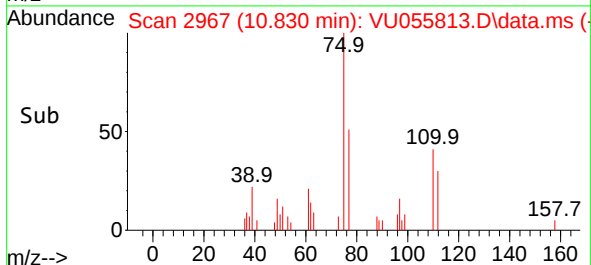
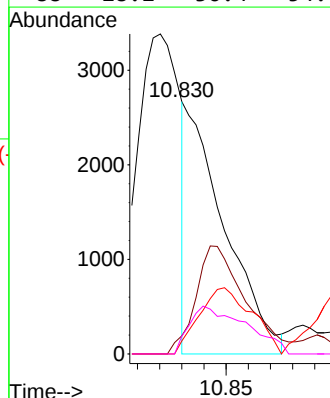
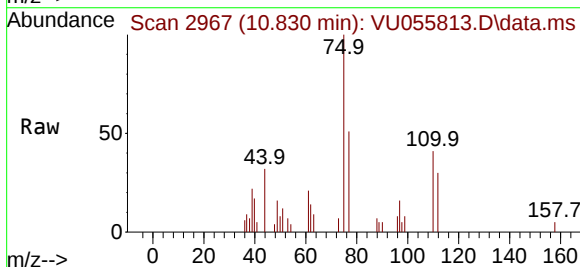
RT: 10.830 min Scan# 2967

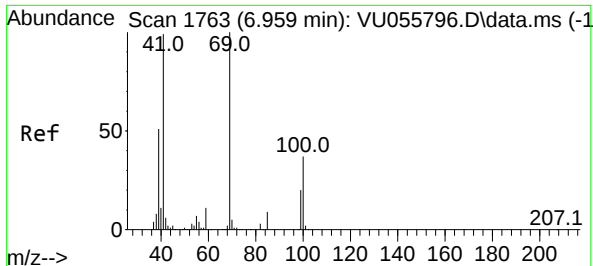
Delta R.T. -0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion: 75	Resp: 3205
Ion Ratio	Lower Upper
75 100	
53 55.2	73.3 109.9#
89 36.1	48.2 72.4#
88 28.2	36.4 54.6#





#47

Methyl methacrylate

Concen: 0.555 ug/l

RT: 6.968 min Scan# 1766

Delta R.T. 0.009 min

Lab File: VU055813.D

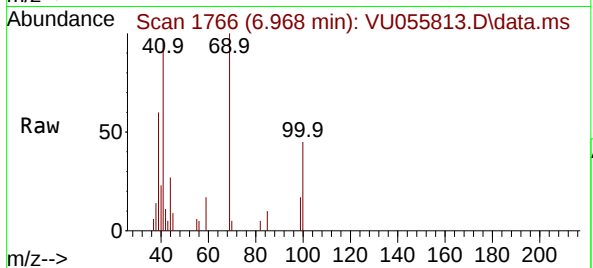
Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023



Tgt Ion: 69 Resp: 6552

Ion Ratio Lower Upper

69 100

41 109.6 0.0 209.2

39 57.1 46.7 70.1

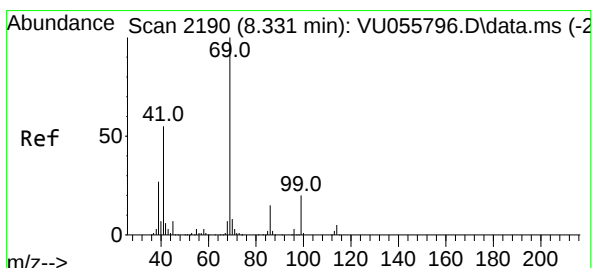
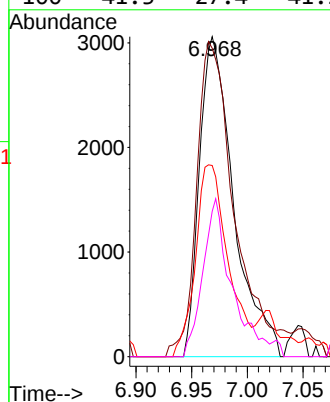
100 41.3 27.4 41.2#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#48

Ethyl methacrylate

Concen: 0.293 ug/l

RT: 8.335 min Scan# 2191

Delta R.T. 0.004 min

Lab File: VU055813.D

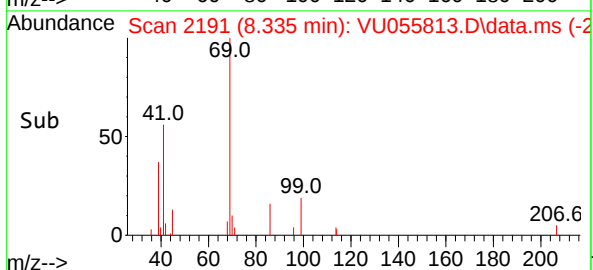
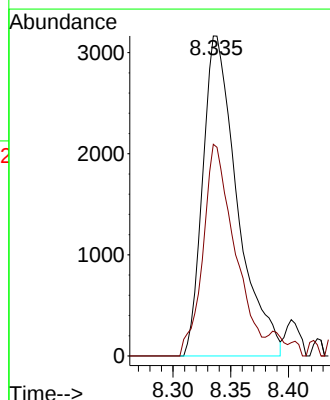
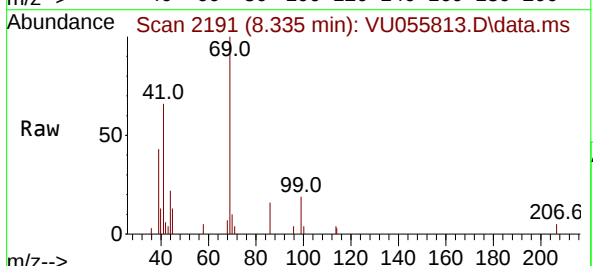
Acq: 19 Oct 2023 16:52

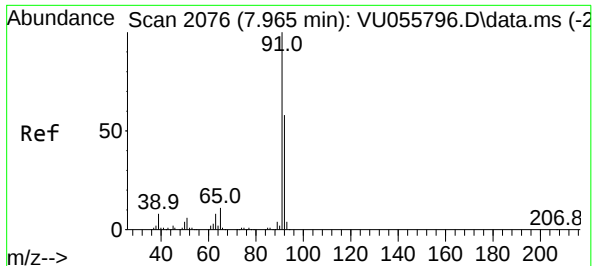
Tgt Ion: 69 Resp: 6574

Ion Ratio Lower Upper

69 100

41 60.7 30.3 90.8





#49

Toluene

Concen: 0.298 ug/l

RT: 7.968 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

Tgt Ion: 92 Resp: 2035

Ion Ratio Lower Upper

92 100

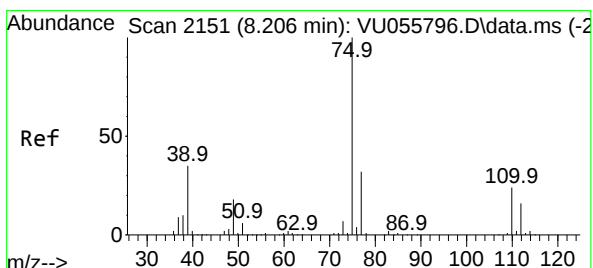
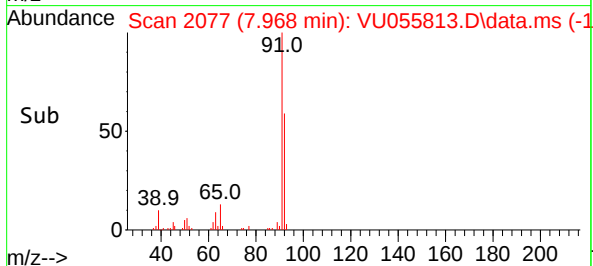
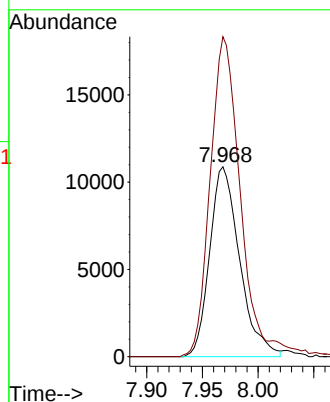
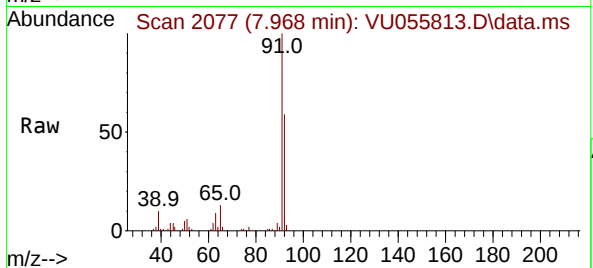
91 170.5 143.0 214.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#50

t-1,3-Dichloropropene

Concen: 0.296 ug/l

RT: 8.216 min Scan# 2154

Delta R.T. 0.010 min

Lab File: VU055813.D

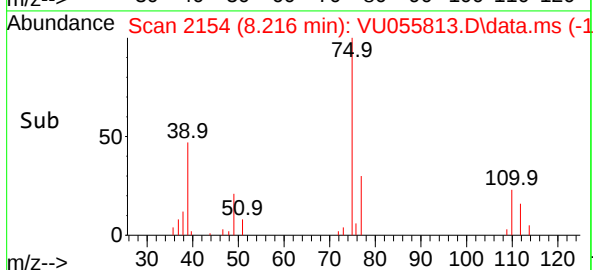
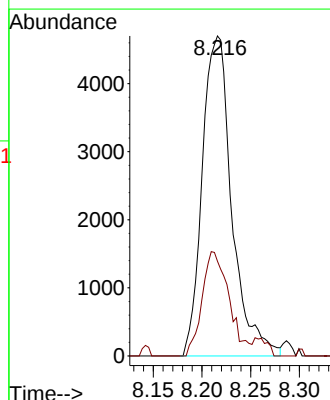
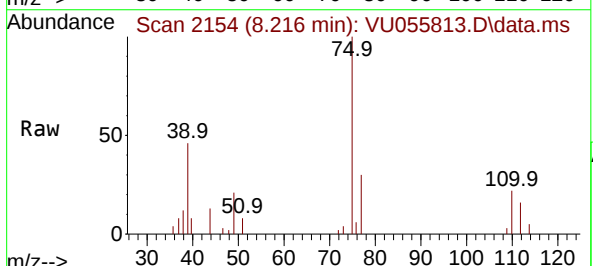
Acq: 19 Oct 2023 16:52

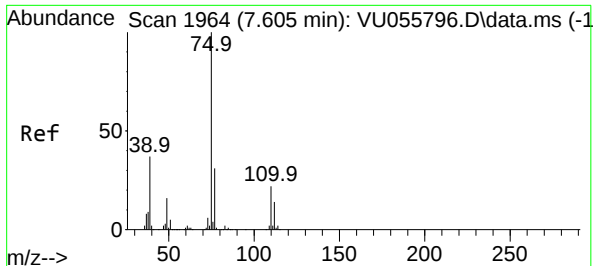
Tgt Ion: 75 Resp: 9916

Ion Ratio Lower Upper

75 100

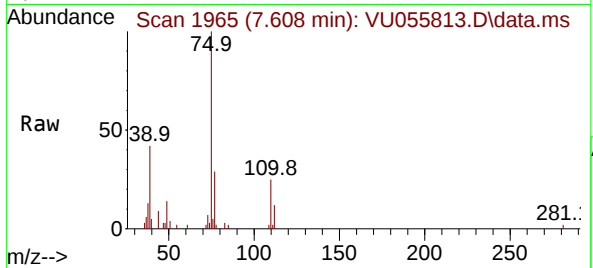
77 29.6 25.3 37.9





#51
cis-1,3-Dichloropropene
Concen: 0.303 ug/l
RT: 7.608 min Scan# 1964
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

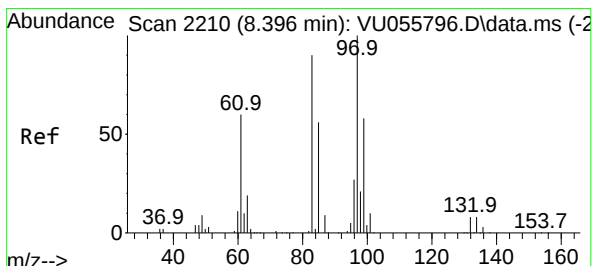
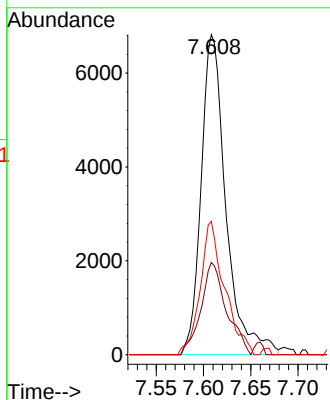
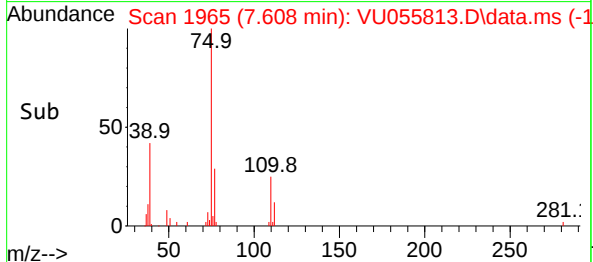
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 75 Resp: 1242
Ion Ratio Lower Upper
75 100
77 30.8 25.7 38.5
39 41.6 32.8 49.2

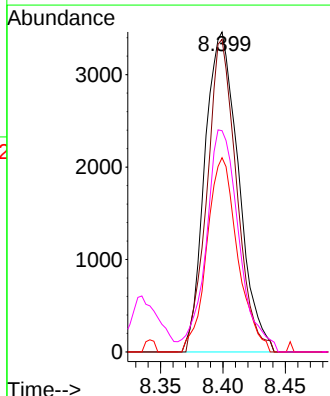
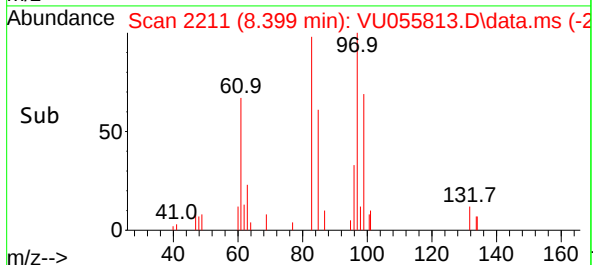
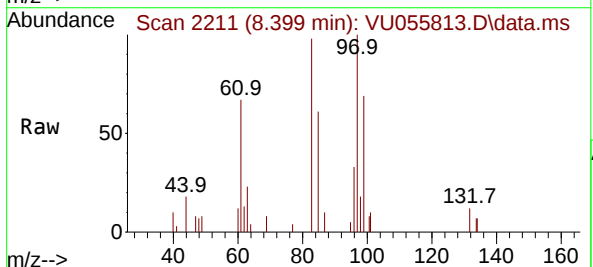
Manual Integrations
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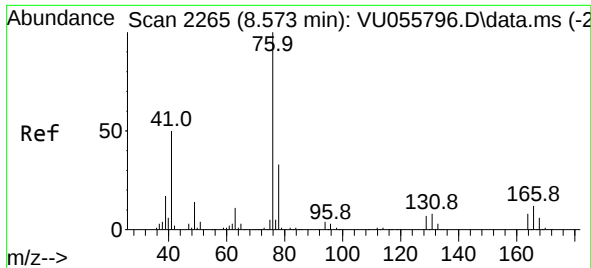
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#52
1,1,2-Trichloroethane
Concen: 0.318 ug/l
RT: 8.399 min Scan# 2211
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

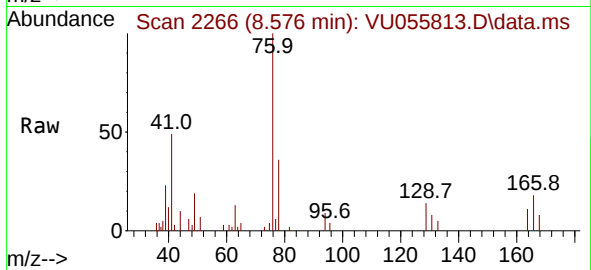
Tgt Ion: 97 Resp: 6505
Ion Ratio Lower Upper
97 100
83 97.7 71.8 107.8
85 60.7 45.2 67.8
99 69.2 50.6 75.8





#53
1,3-Dichloropropane
Concen: 0.316 ug/l
RT: 8.576 min Scan# 2104
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

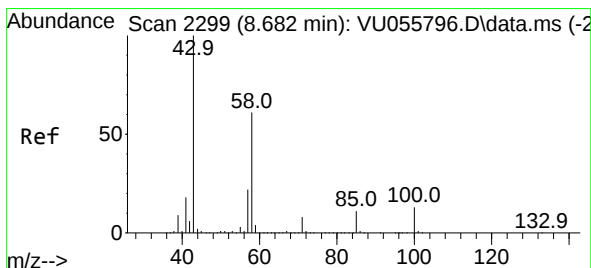
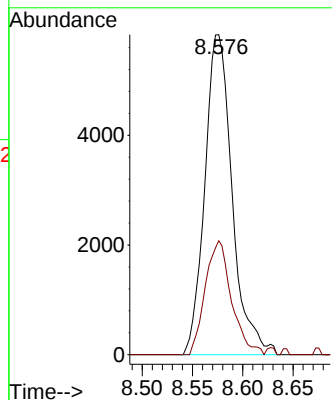
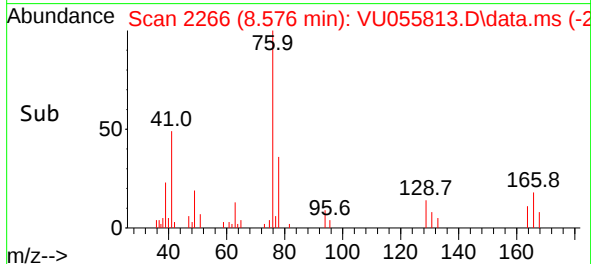
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



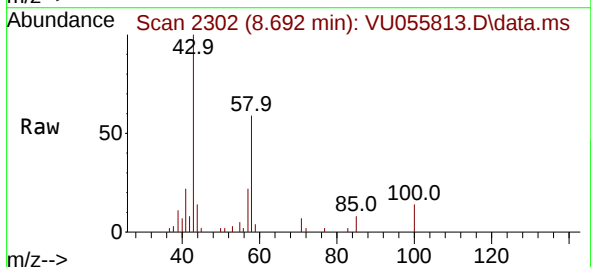
Tgt Ion: 76 Resp: 11040
Ion Ratio Lower Upper
76 100
78 34.1 25.9 38.9

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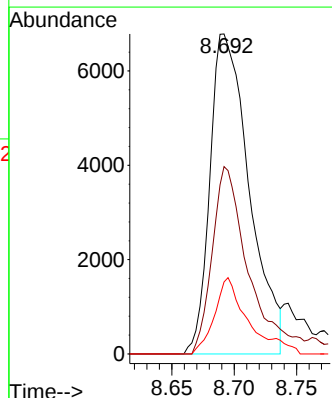
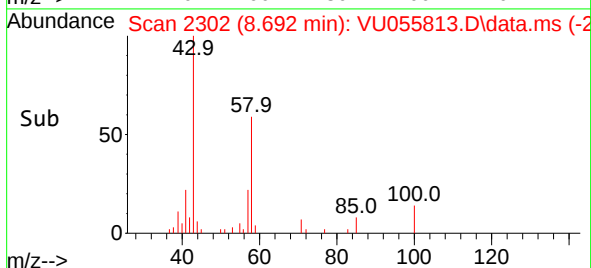
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#54
2-Hexanone
Concen: 0.899 ug/l
RT: 8.692 min Scan# 2302
Delta R.T. 0.010 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



Tgt Ion: 43 Resp: 14914
Ion Ratio Lower Upper
43 100
58 54.0 38.2 78.2
57 20.4 0.0 39.1





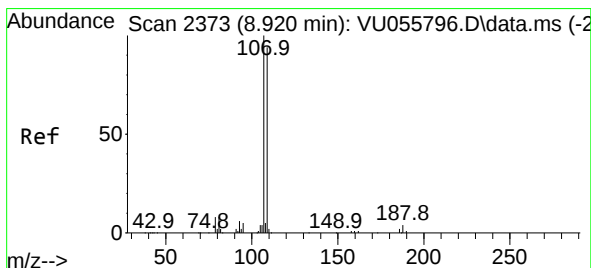
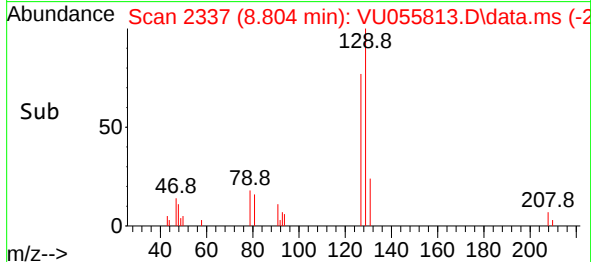
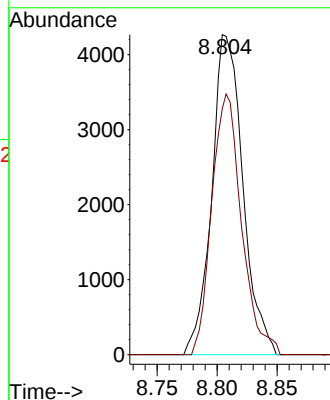
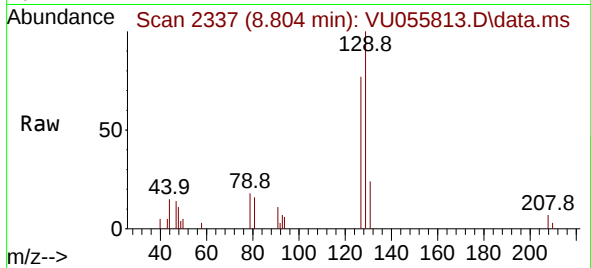
#55
Dibromochloromethane
Concen: 0.312 ug/l
RT: 8.804 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:129 Resp: 770
Ion Ratio Lower Upper
129 100
127 77.9 61.4 92.0

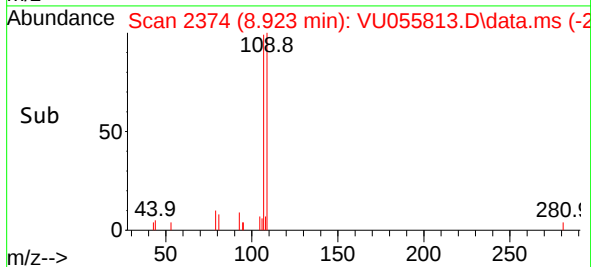
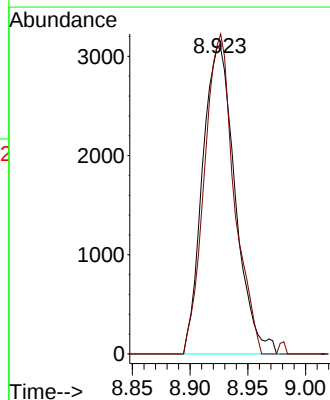
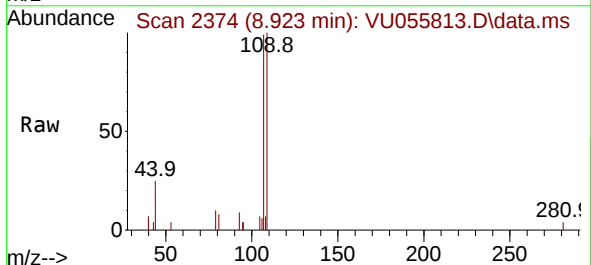
Manual Integrations
APPROVED

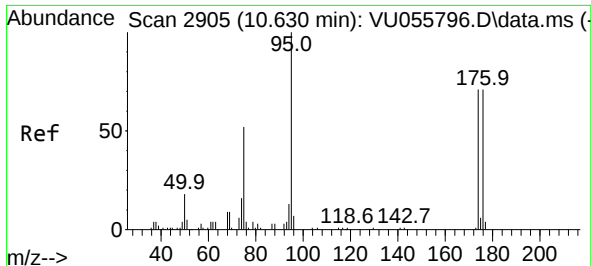
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#56
1,2-Dibromoethane
Concen: 0.327 ug/l
RT: 8.923 min Scan# 2374
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

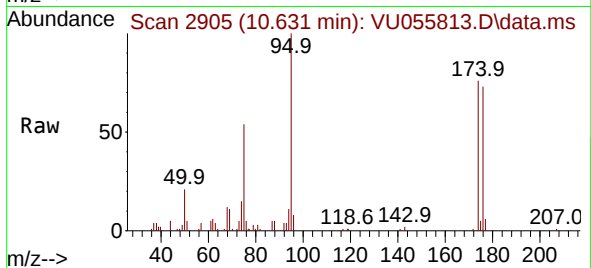
Tgt Ion:107 Resp: 6112
Ion Ratio Lower Upper
107 100
109 94.9 0.0 184.4





#57
4-Bromofluorobenzene
Concen: 0.916 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.001 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

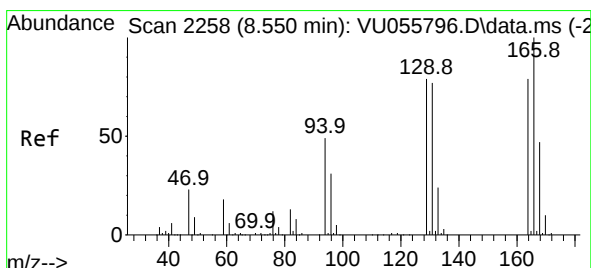
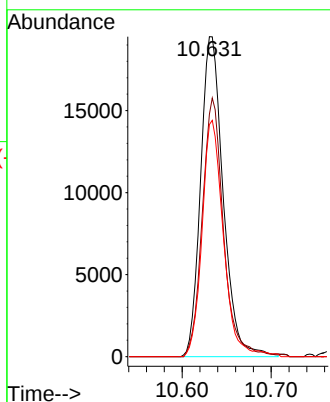
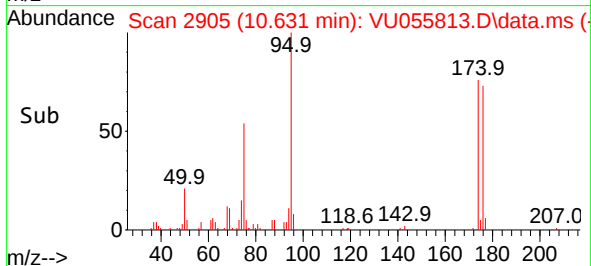
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



Tgt Ion: 95 Resp: 34349
Ion Ratio Lower Upper
95 100
174 75.7 63.3 94.9
176 70.0 59.3 88.9

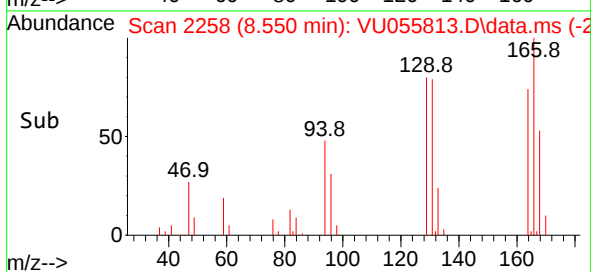
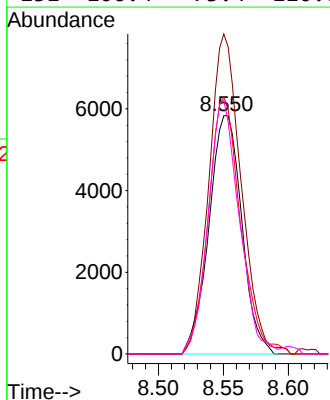
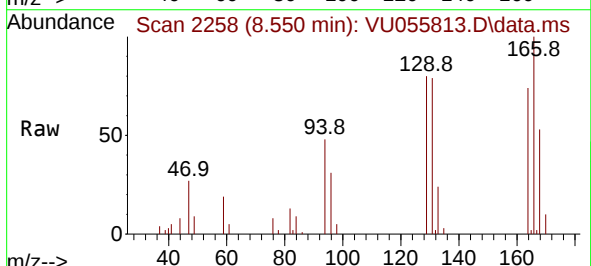
Manual Integrations
APPROVED

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



#58
Tetrachloroethene
Concen: 0.328 ug/l
RT: 8.550 min Scan# 2258
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:164 Resp: 10232
Ion Ratio Lower Upper
164 100
166 134.3 99.6 149.4
129 107.8 78.6 117.8
131 106.4 73.4 110.0





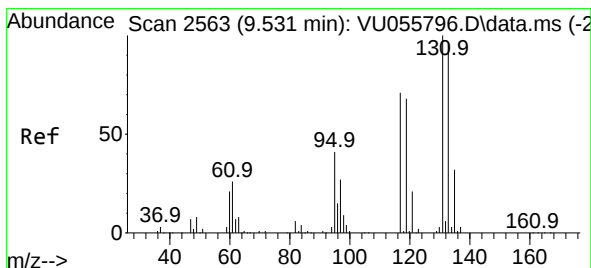
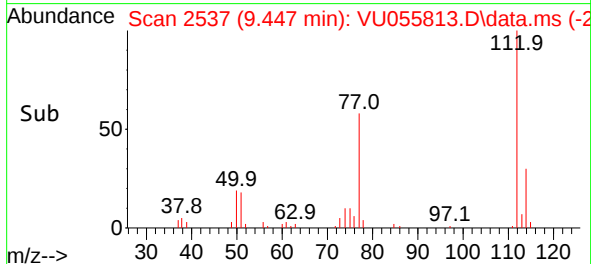
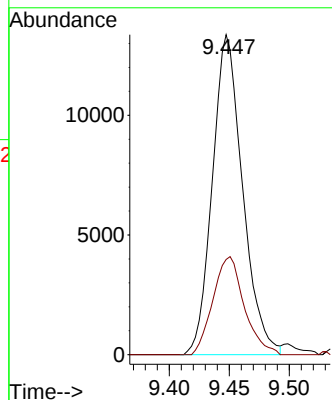
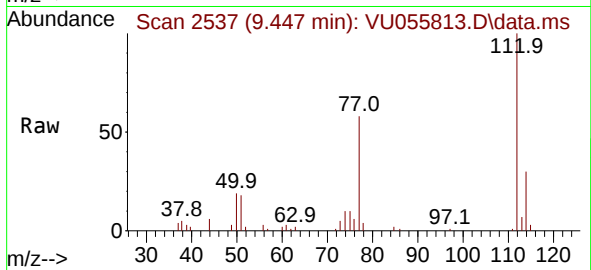
#59
Chlorobenzene
Concen: 0.311 ug/l
RT: 9.447 min Scan# 2536
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:112 Resp: 2340
Ion Ratio Lower Upper
112 100
114 29.7 25.6 38.4

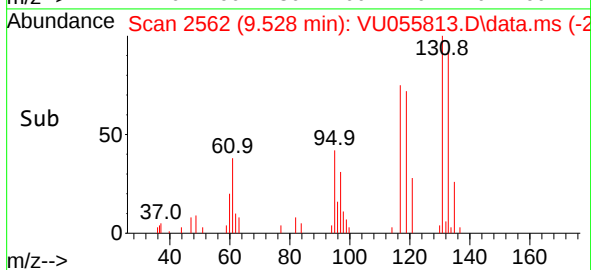
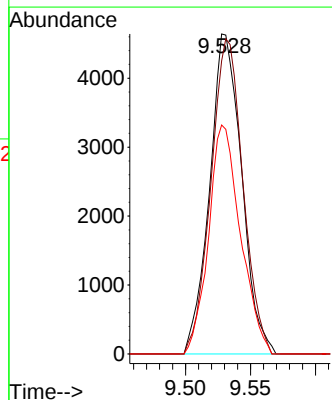
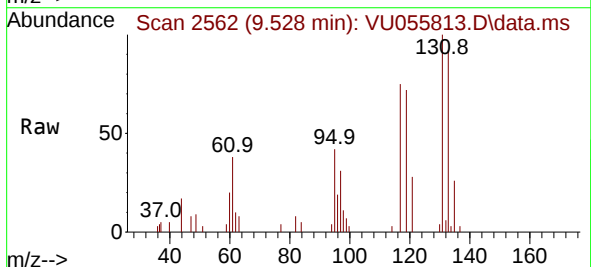
Manual Integrations
APPROVED

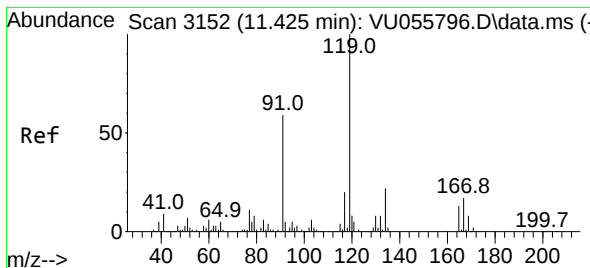
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#60
1,1,1,2-Tetrachloroethane
Concen: 0.296 ug/l
RT: 9.528 min Scan# 2562
Delta R.T. -0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:131 Resp: 7953
Ion Ratio Lower Upper
131 100
133 98.5 77.8 116.6
119 71.1 55.2 82.8





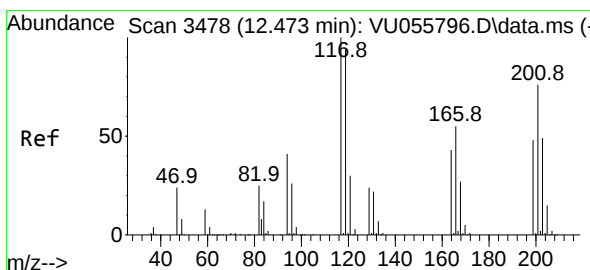
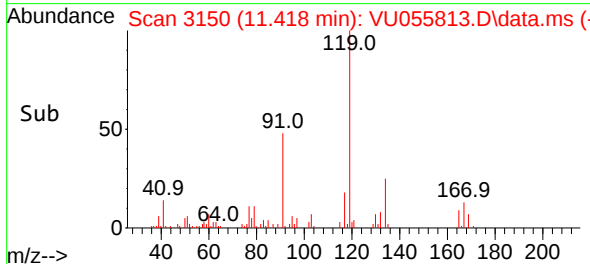
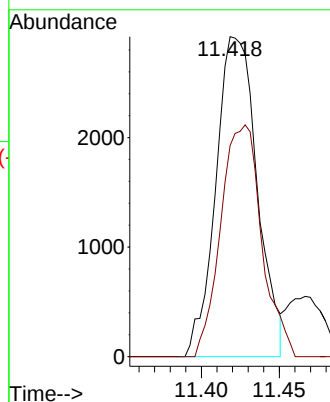
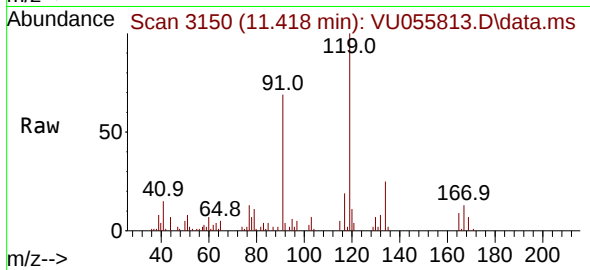
#61
 Pentachloroethane
 Concen: 0.296 ug/l
 RT: 11.418 min Scan# 3150
 Delta R.T. -0.007 min
 Lab File: VU055813.D
 Acq: 19 Oct 2023 16:52

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

Tgt Ion:117 Resp: 538
 Ion Ratio Lower Upper
 117 100
 167 71.6 56.7 85.1

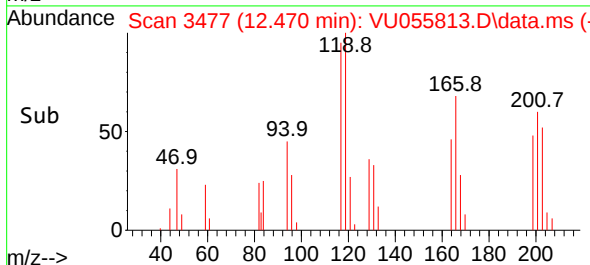
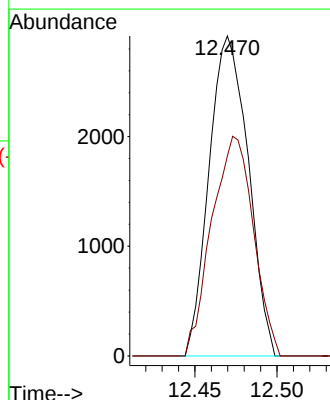
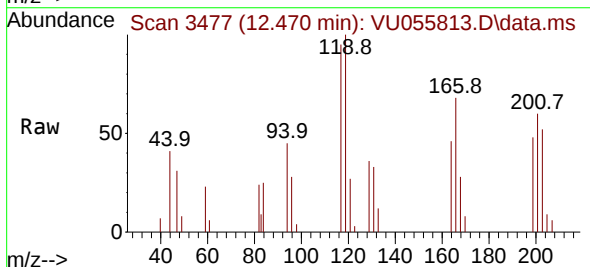
Manual Integrations
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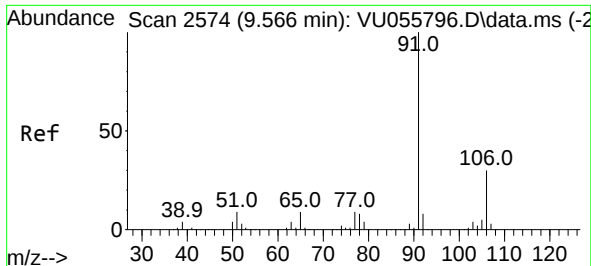
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023



#62
 Hexachloroethane
 Concen: 0.250 ug/l
 RT: 12.470 min Scan# 3477
 Delta R.T. -0.003 min
 Lab File: VU055813.D
 Acq: 19 Oct 2023 16:52

Tgt Ion:117 Resp: 4820
 Ion Ratio Lower Upper
 117 100
 201 73.3 59.6 89.4





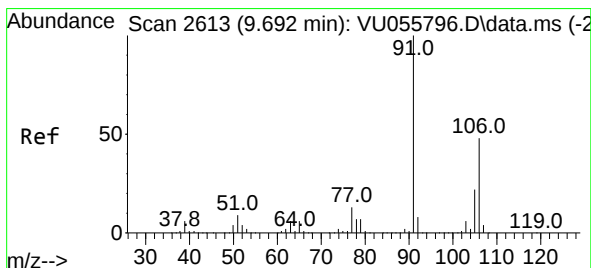
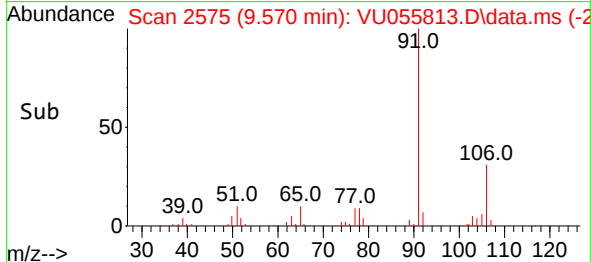
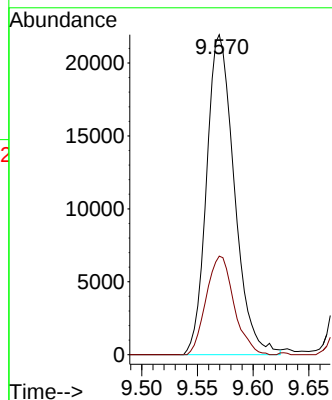
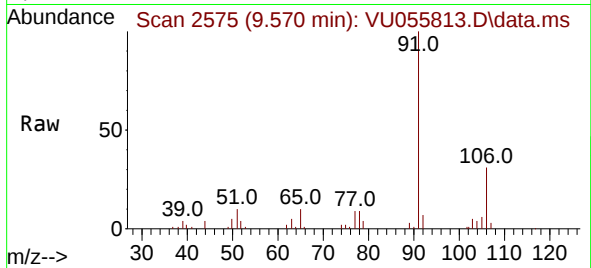
#63
Ethyl Benzene
Concen: 0.297 ug/l
RT: 9.570 min Scan# 21
Delta R.T. 0.004 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion: 91 Resp: 3794
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2

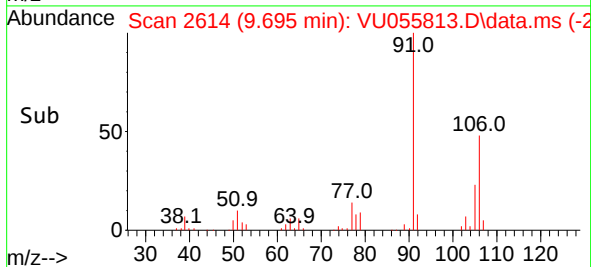
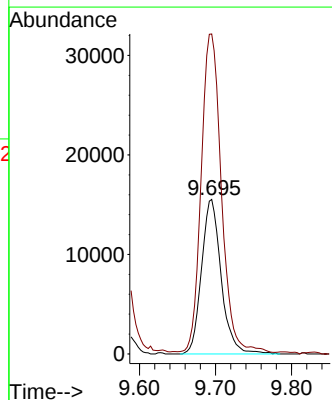
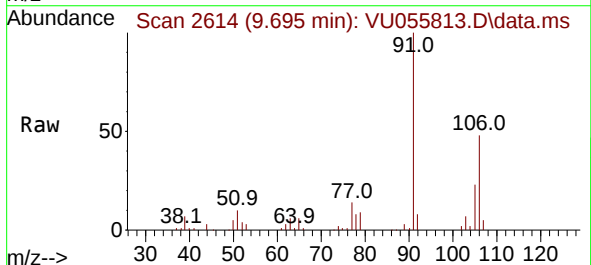
Manual Integrations
APPROVED

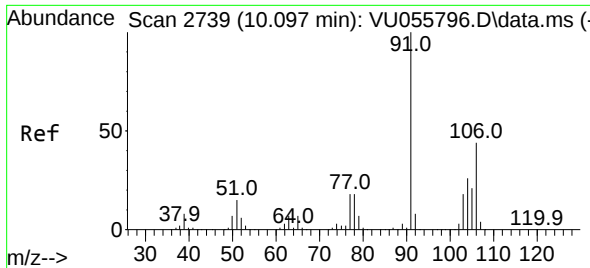
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#64
m/p-Xylenes
Concen: 0.567 ug/l
RT: 9.695 min Scan# 2614
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:106 Resp: 27893
Ion Ratio Lower Upper
106 100
91 210.9 167.3 250.9





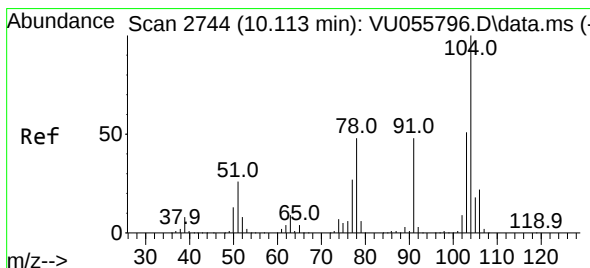
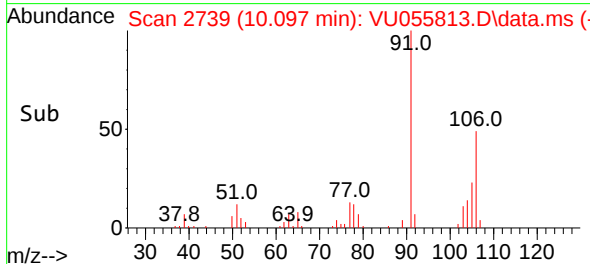
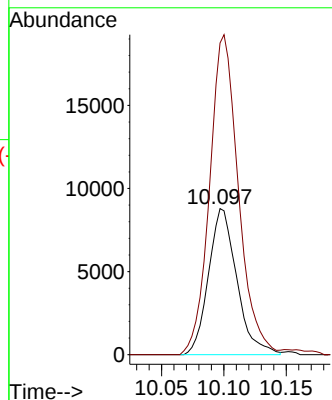
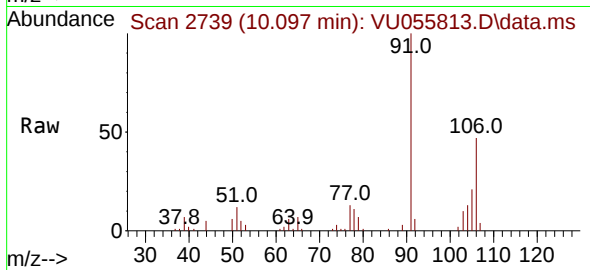
#65
o-Xylene
Concen: 0.289 ug/l
RT: 10.097 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:106 Resp: 1392
Ion Ratio Lower Upper
106 100
91 222.8 109.3 327.9

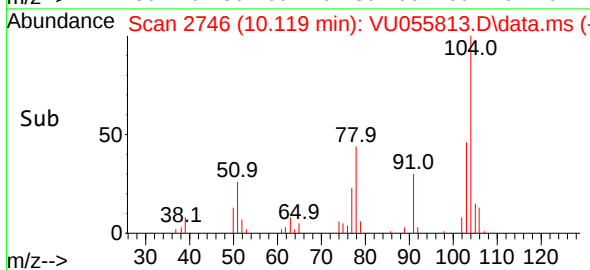
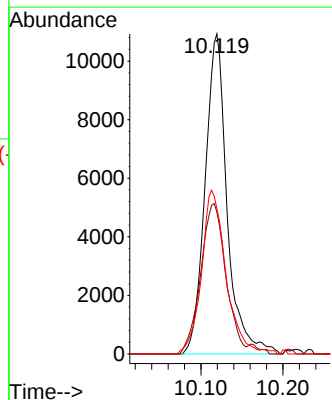
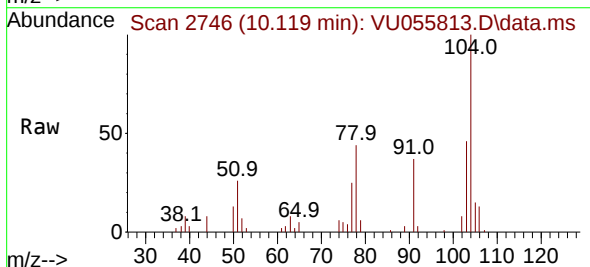
Manual Integrations
APPROVED

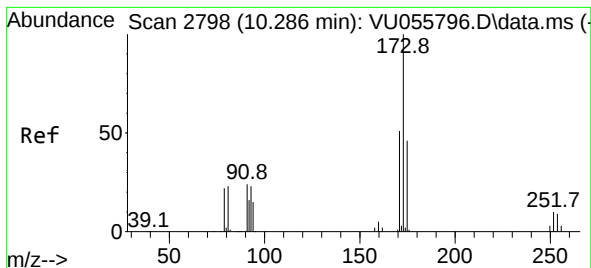
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#66
Styrene
Concen: 0.270 ug/l
RT: 10.119 min Scan# 2746
Delta R.T. 0.006 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:104 Resp: 20400
Ion Ratio Lower Upper
104 100
78 53.5 39.7 59.5
103 56.4 44.8 67.2





#67

Bromoform

Concen: 0.288 ug/l

RT: 10.290 min Scan# 2798

Delta R.T. 0.004 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

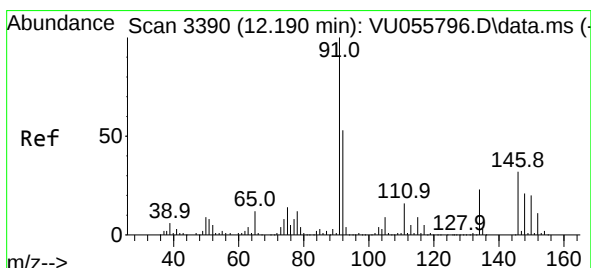
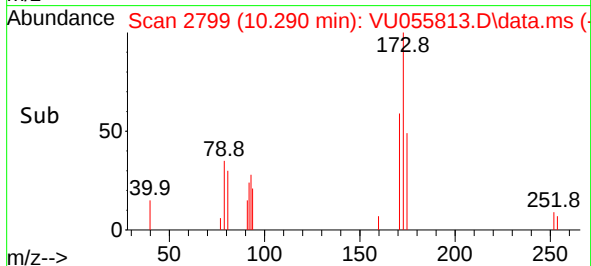
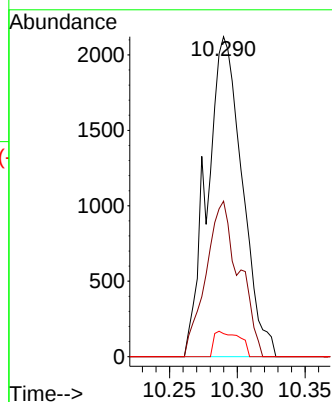
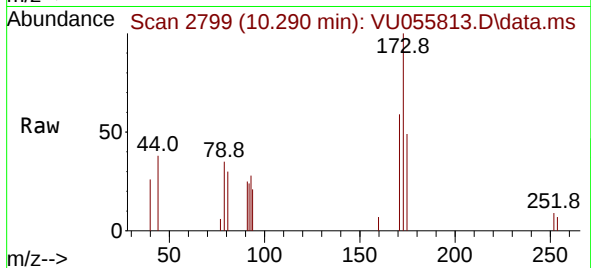
Tgt Ion:173	Resp:	381
Ion Ratio	Lower	Upper
173	100	
175	46.1	39.0 58.6
254	5.7	7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#68

1,2-Dichlorobenzene-d4

Concen: 0.913 ug/l

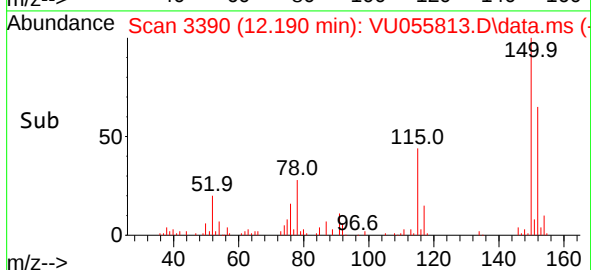
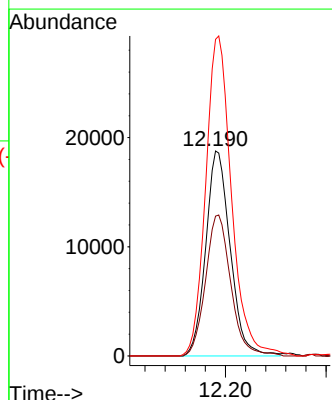
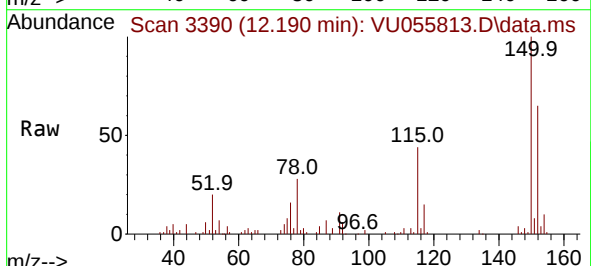
RT: 12.190 min Scan# 3390

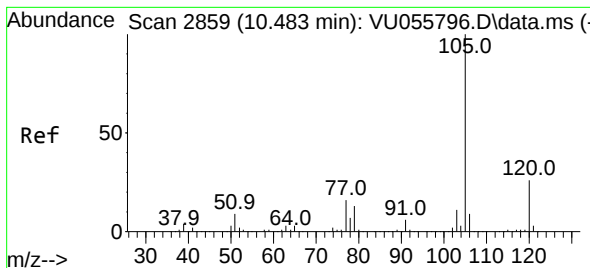
Delta R.T. 0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion:152	Resp:	31730
Ion Ratio	Lower	Upper
152	100	
115	70.9	0.0 308.8
150	164.7	0.0 635.0





#69

Isopropylbenzene

Concen: 0.276 ug/l

RT: 10.483 min Scan# 2859

Delta R.T. -0.000 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

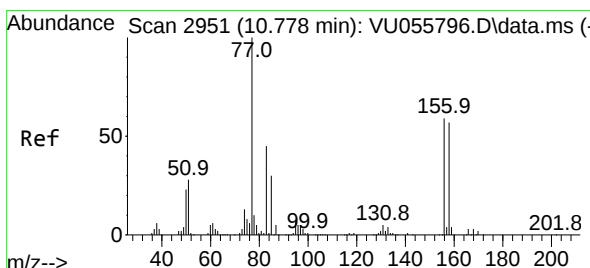
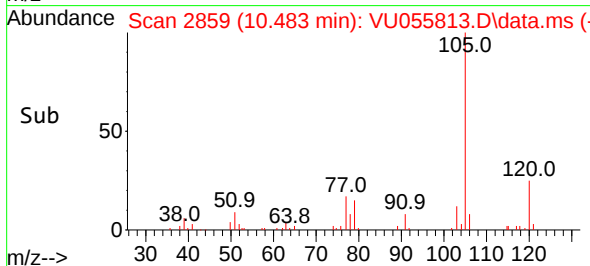
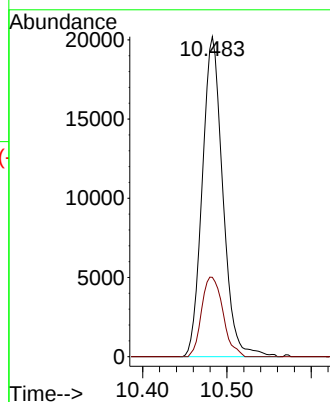
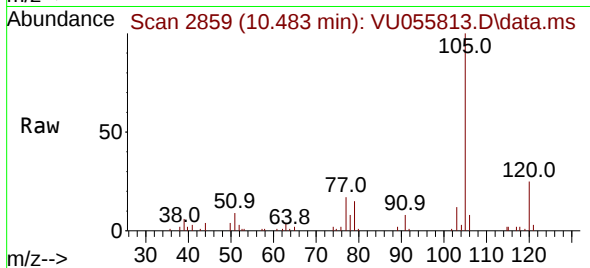
Tgt Ion:105 Resp: 3426
 Ion Ratio Lower Upper
 105 100
 120 25.8 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#70

1,1,2,2-Tetrachloroethane

Concen: 0.315 ug/l

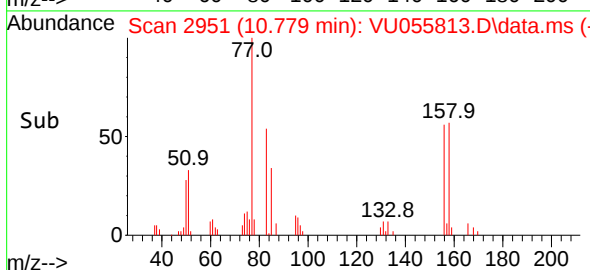
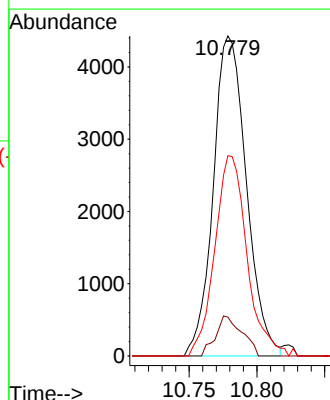
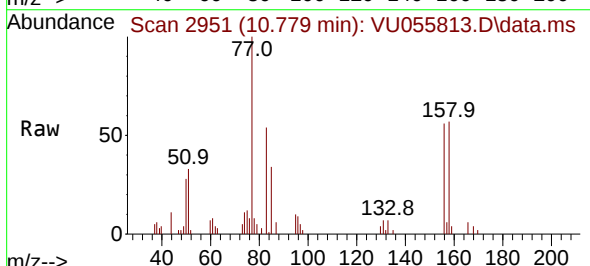
RT: 10.779 min Scan# 2951

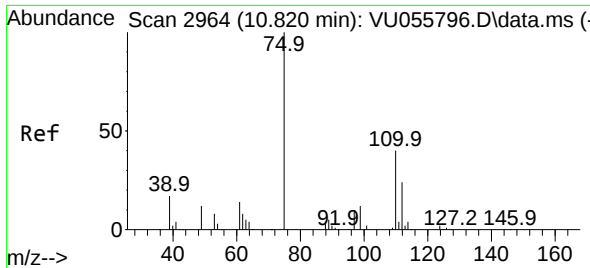
Delta R.T. 0.001 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

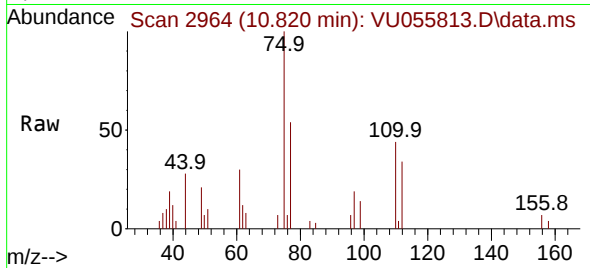
Tgt Ion: 83 Resp: 7525
 Ion Ratio Lower Upper
 83 100
 131 9.9 7.2 10.8
 85 60.9 50.5 75.7





#71
1,2,3-Trichloropropane
Concen: 0.293 ug/l m
RT: 10.820 min Scan# 2964
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

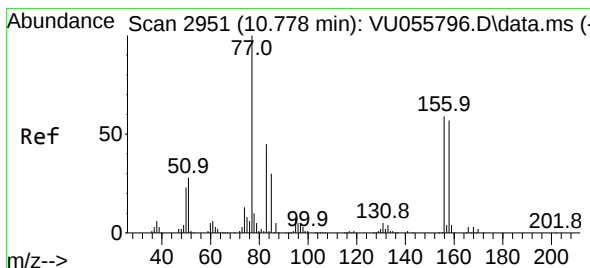
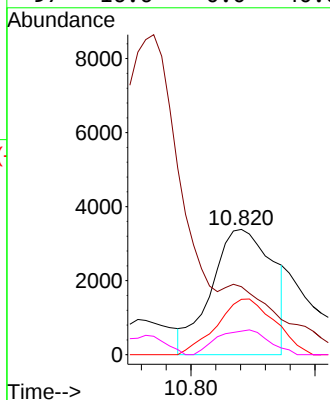
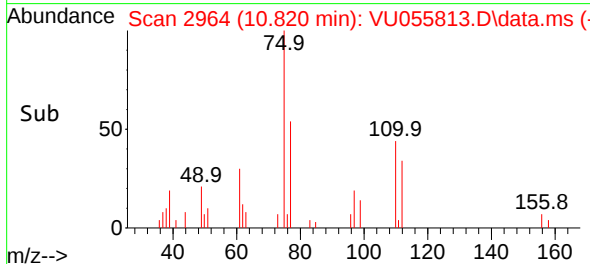
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



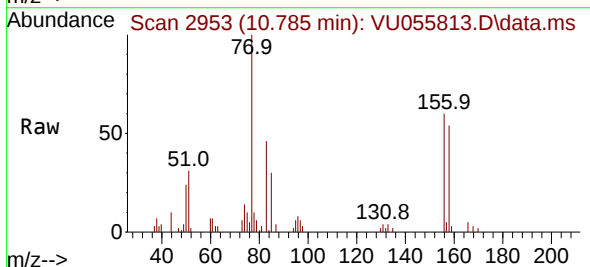
Tgt Ion:	75	Resp:	5810
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	116.4
110	42.0	0.0	74.6
97	16.6	0.0	40.0

Manual Integrations
APPROVED

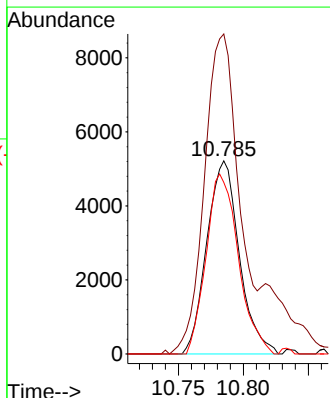
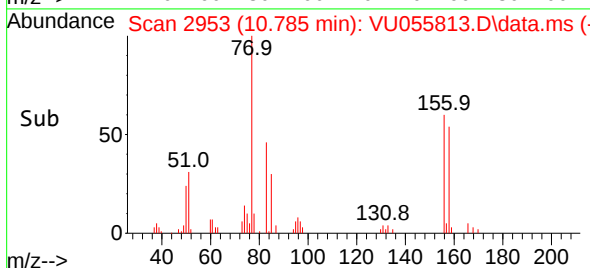
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

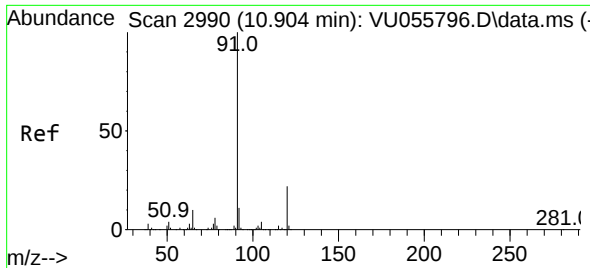


#72
Bromobenzene
Concen: 0.307 ug/l
RT: 10.785 min Scan# 2953
Delta R.T. 0.007 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



Tgt Ion:	156	Resp:	9088
Ion Ratio	Lower	Upper	
156	100		
77	174.1	0.0	343.0
158	92.4	0.0	194.8





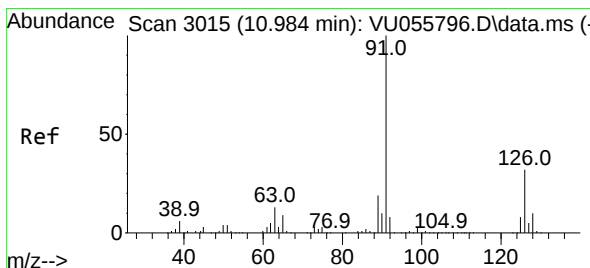
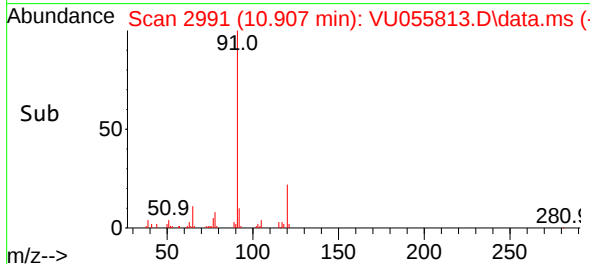
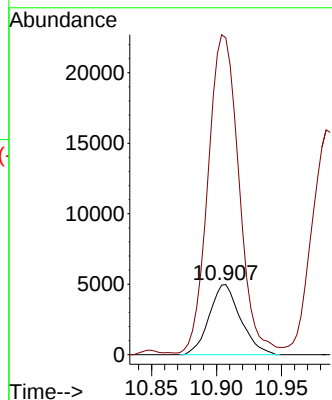
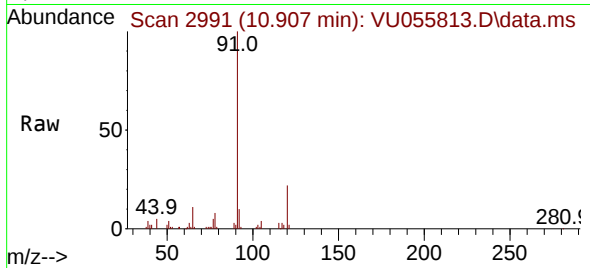
#73
n-propylbenzene
Concen: 0.260 ug/l
RT: 10.907 min Scan# 2991
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:120 Resp: 831
Ion Ratio Lower Upper
120 100
91 447.9 369.8 554.6

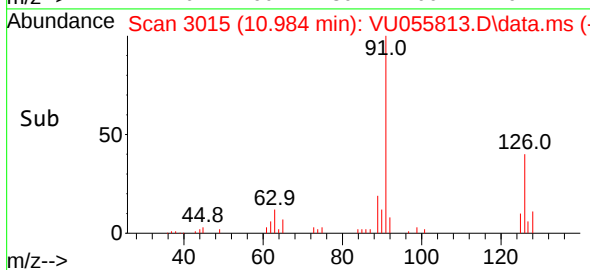
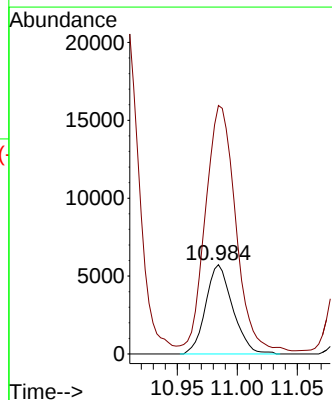
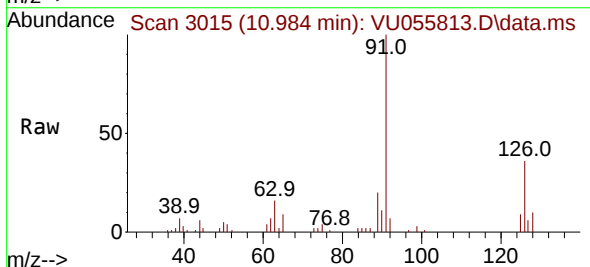
Manual Integrations
APPROVED

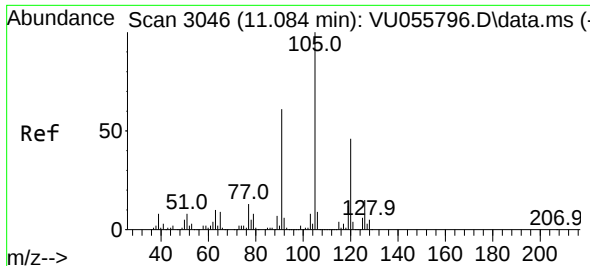
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#74
2-Chlorotoluene
Concen: 0.301 ug/l
RT: 10.984 min Scan# 3015
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:126 Resp: 8950
Ion Ratio Lower Upper
126 100
91 307.9 0.0 610.0





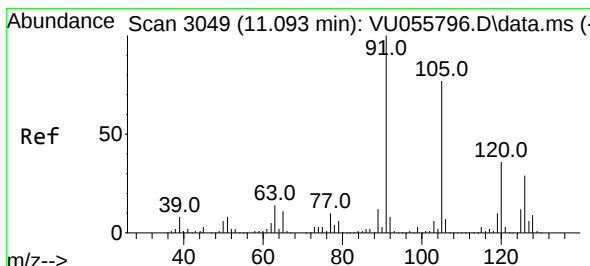
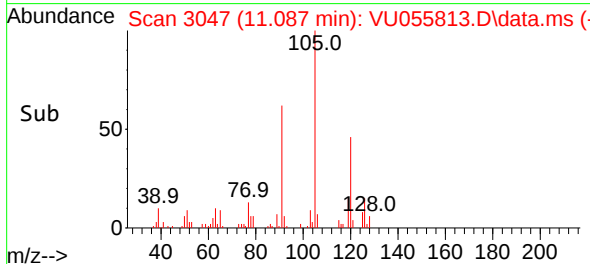
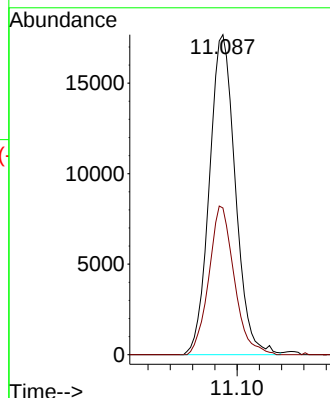
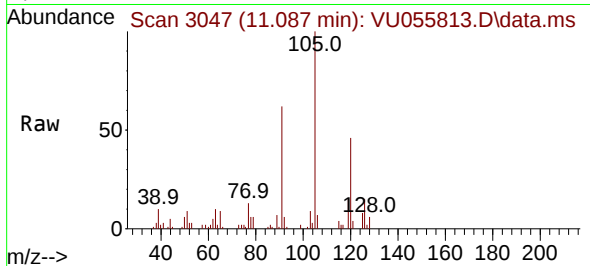
#75
1,3,5-Trimethylbenzene
Concen: 0.269 ug/l
RT: 11.087 min Scan# 3046
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:105 Resp: 2857
Ion Ratio Lower Upper
105 100
120 45.5 37.8 56.8

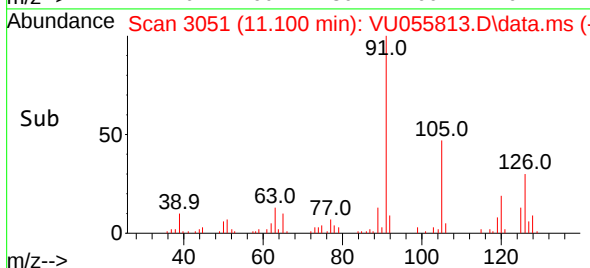
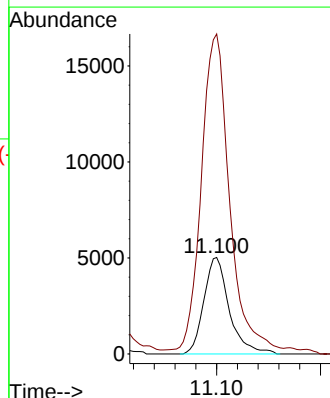
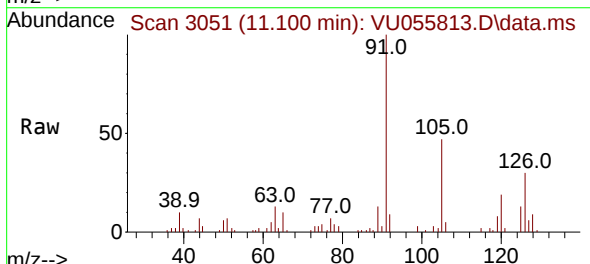
Manual Integrations
APPROVED

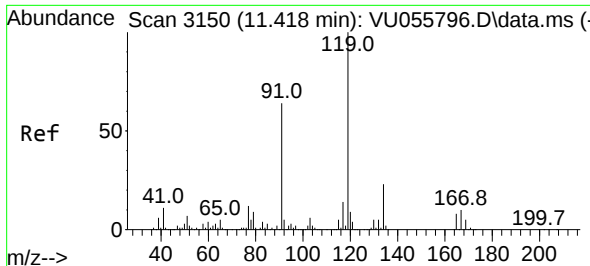
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#76
4-Chlorotoluene
Concen: 0.280 ug/l
RT: 11.100 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

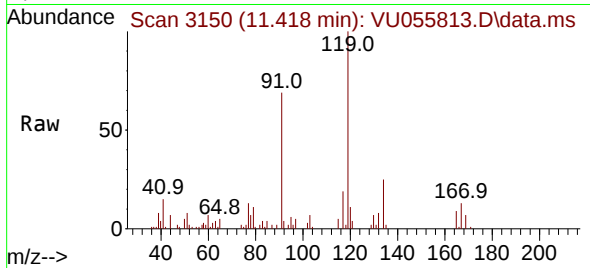
Tgt Ion:126 Resp: 8503
Ion Ratio Lower Upper
126 100
91 356.7 0.0 686.2





#77
tert-Butylbenzene
Concen: 0.267 ug/l
RT: 11.418 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

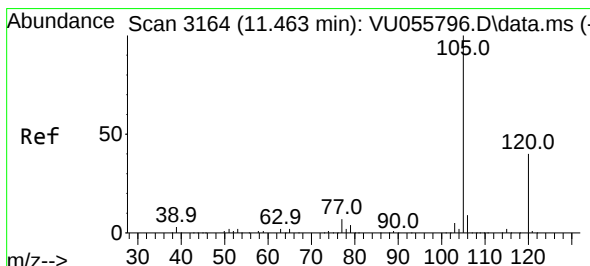
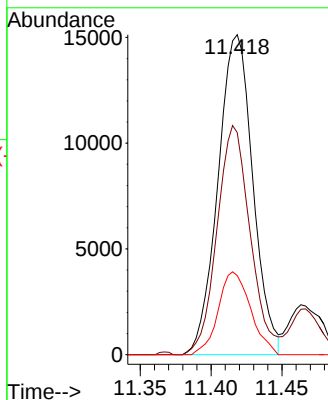
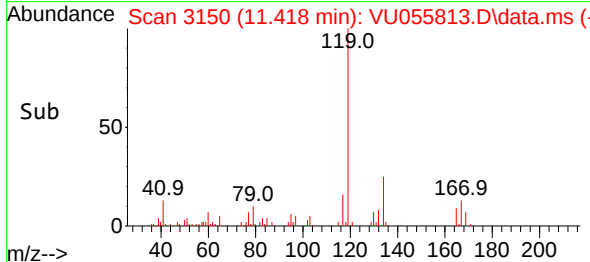
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2023



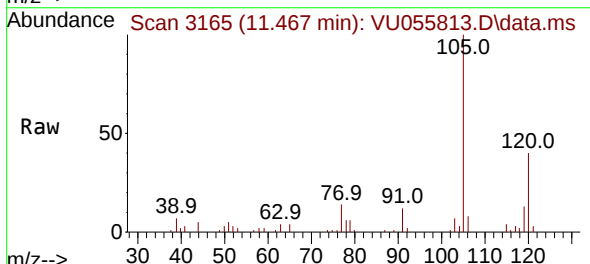
Tgt Ion:119 Resp: 2597
Ion Ratio Lower Upper
119 100
91 68.0 30.8 92.4
134 24.0 18.0 27.0

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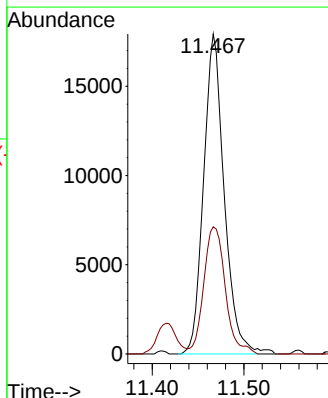
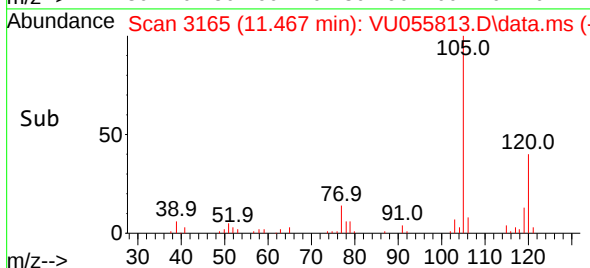
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023

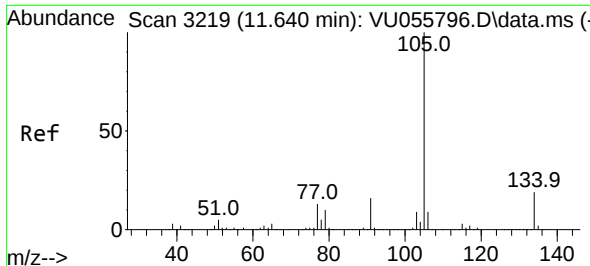


#78
1,2,4-Trimethylbenzene
Concen: 0.267 ug/l
RT: 11.467 min Scan# 3165
Delta R.T. 0.004 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52



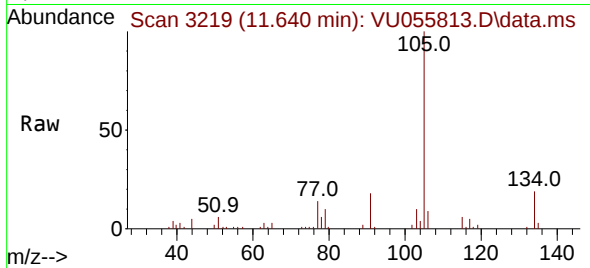
Tgt Ion:105 Resp: 28076
Ion Ratio Lower Upper
105 100
120 41.6 21.9 65.8





#79
 sec-Butylbenzene
 Concen: 0.275 ug/l
 RT: 11.640 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU055813.D
 Acq: 19 Oct 2023 16:52

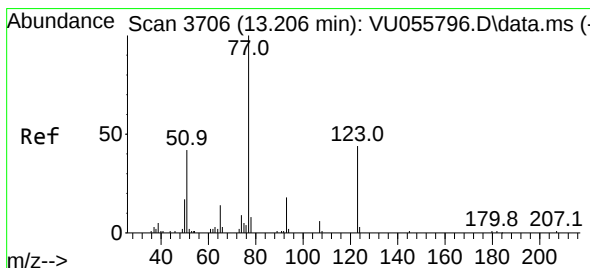
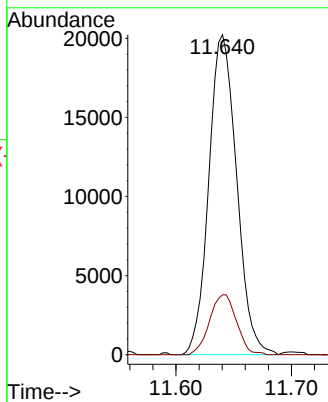
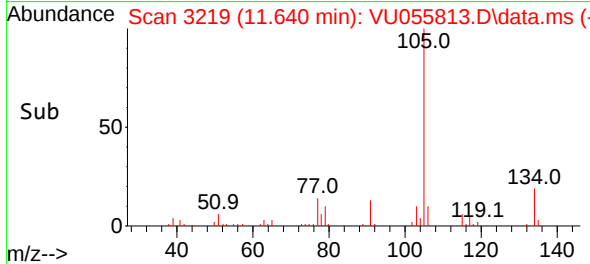
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2023



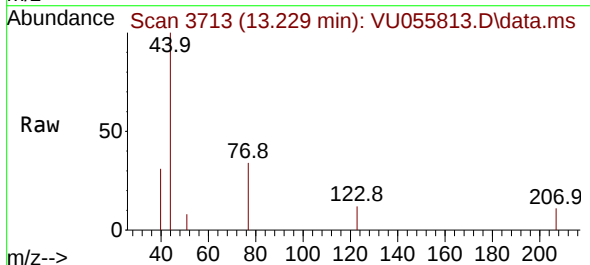
Tgt Ion:105 Resp: 3384
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.9 22.3

Manual Integrations
 APPROVED

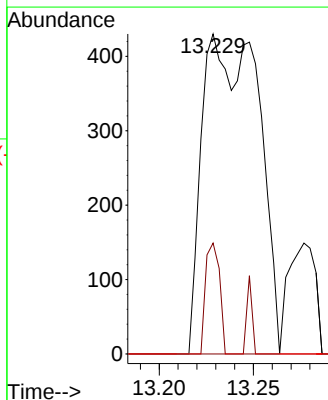
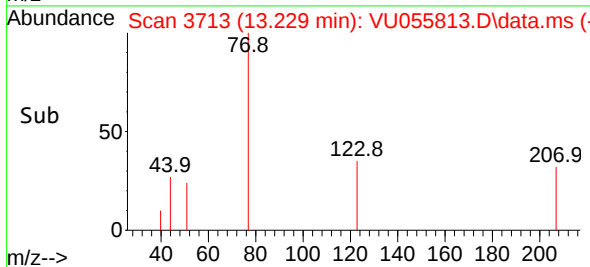
Reviewed By :John Carlone 10/20/2023
 Supervised By :Mahesh Dadoda 10/25/2023

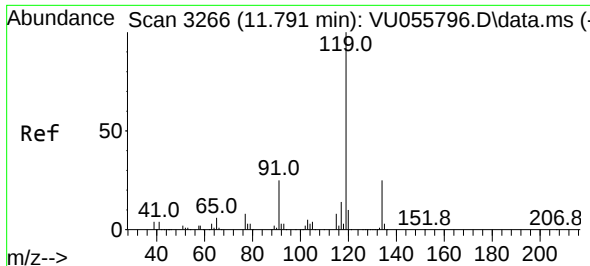


#80
 Nitrobenzene
 Concen: 1.412 ug/l m
 RT: 13.229 min Scan# 3713
 Delta R.T. 0.023 min
 Lab File: VU055813.D
 Acq: 19 Oct 2023 16:52



Tgt Ion: 77 Resp: 893
 Ion Ratio Lower Upper
 77 100
 123 8.6 19.7 69.7#
 65 0.0 11.5 14.7#





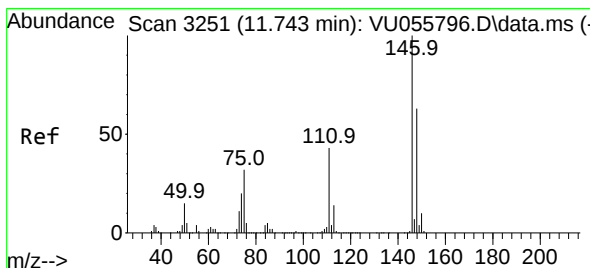
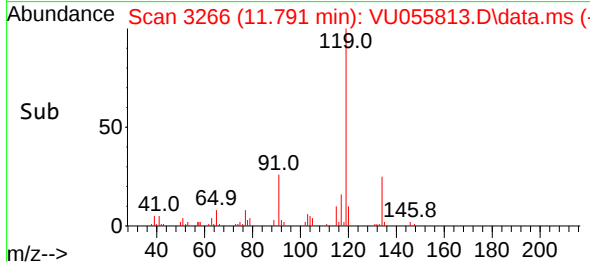
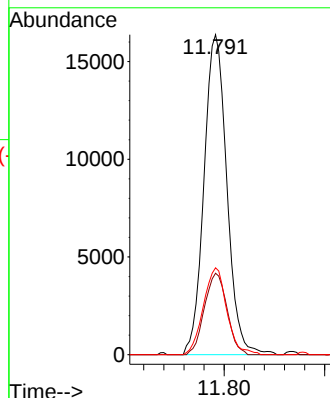
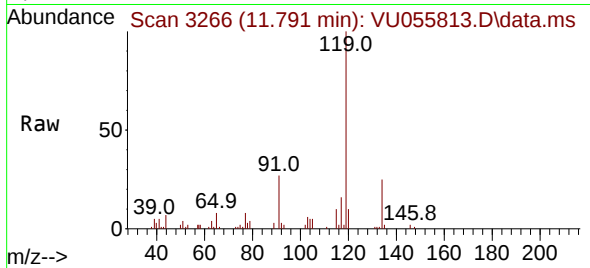
#81
p-Isopropyltoluene
Concen: 0.262 ug/l
RT: 11.791 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:119 Resp: 25878
Ion Ratio Lower Upper
119 100
134 25.1 20.2 30.4
91 27.7 19.3 28.9

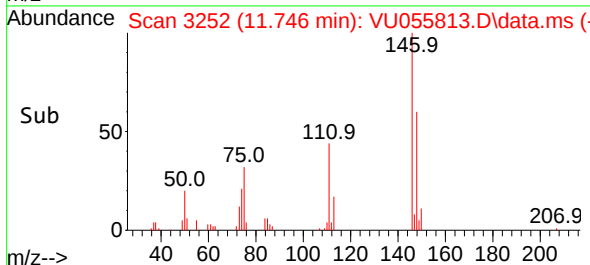
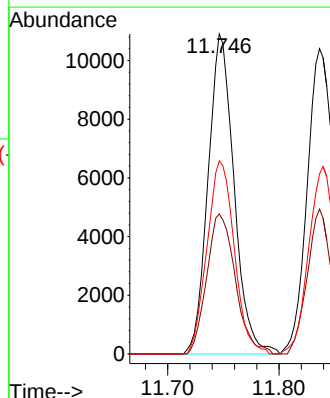
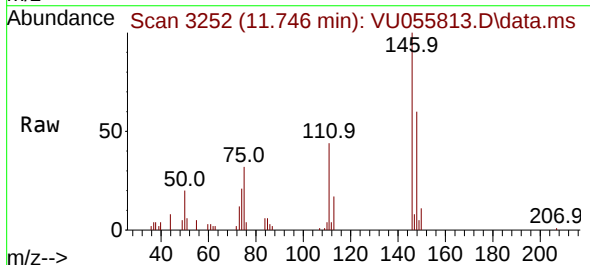
Manual Integrations
APPROVED

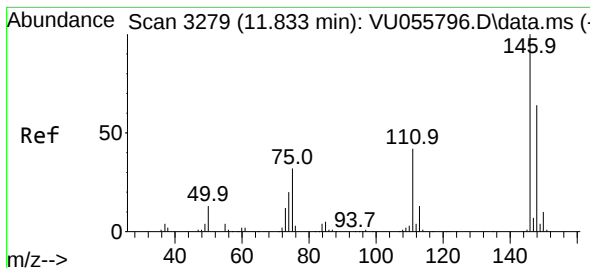
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#82
1,3-Dichlorobenzene
Concen: 0.292 ug/l
RT: 11.746 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:146 Resp: 17670
Ion Ratio Lower Upper
146 100
111 48.2 32.6 49.0
148 63.3 51.0 76.4





#83

1,4-Dichlorobenzene

Concen: 0.320 ug/l

RT: 11.836 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055813.D

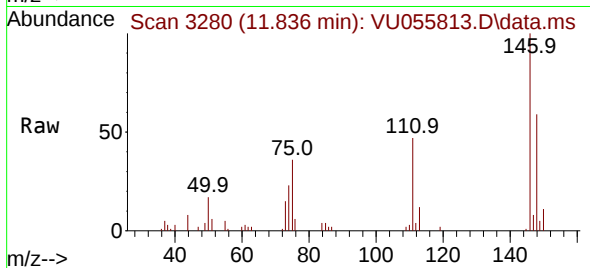
Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023



Tgt Ion:146 Resp: 18709

Ion Ratio Lower Upper

146 100

111 43.7 31.6 47.4

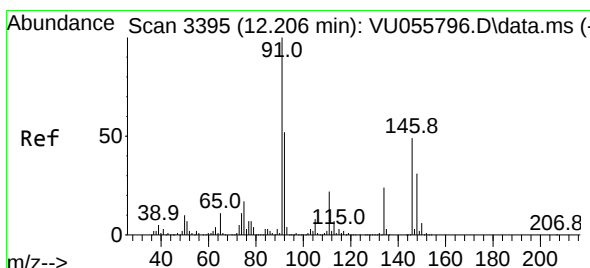
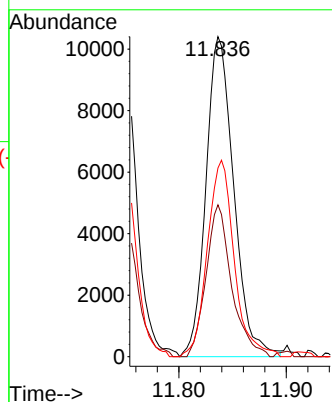
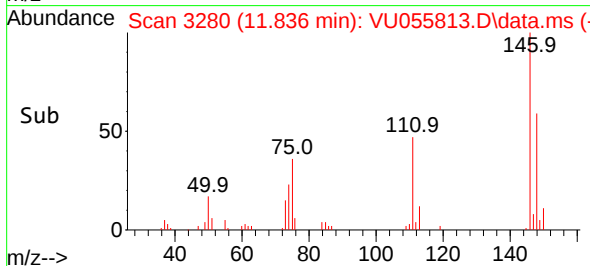
148 59.3 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#84

n-Butylbenzene

Concen: 0.314 ug/l

RT: 12.209 min Scan# 3396

Delta R.T. 0.003 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

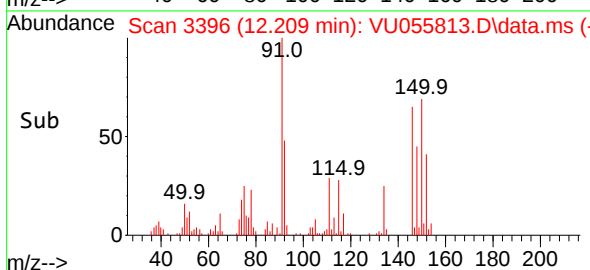
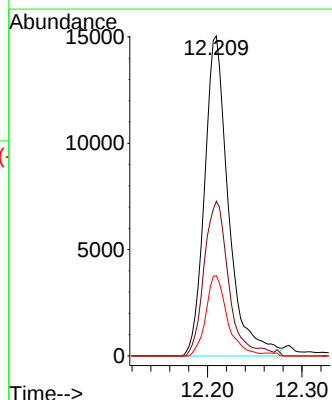
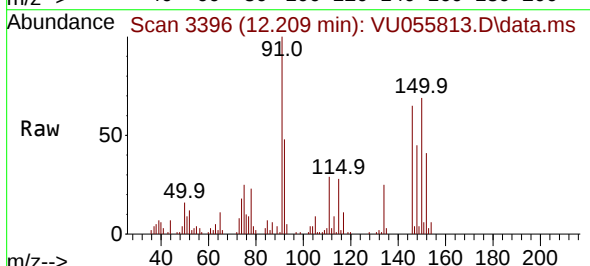
Tgt Ion: 91 Resp: 26522

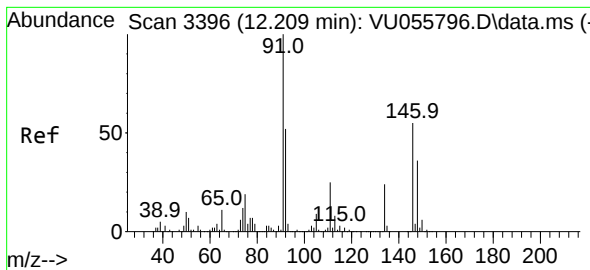
Ion Ratio Lower Upper

91 100

92 50.0 40.8 61.2

134 22.7 18.4 27.6





#85

1,2-Dichlorobenzene

Concen: 0.310 ug/l

RT: 12.213 min Scan# 3396

Delta R.T. 0.004 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2023

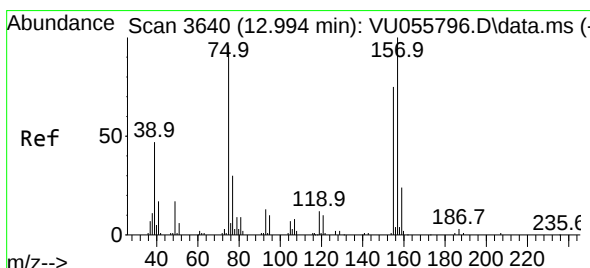
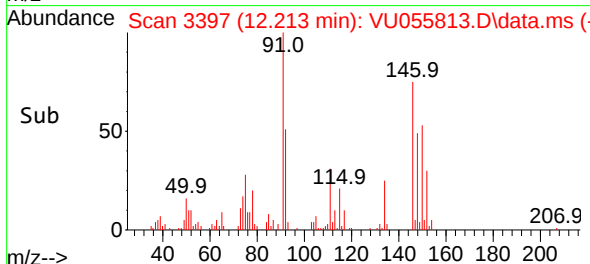
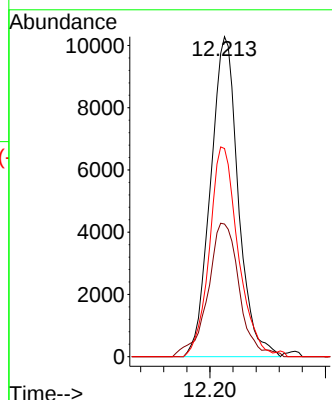
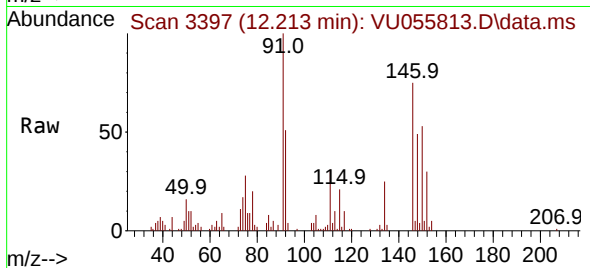
Tgt Ion:	146	Resp:	1713
Ion Ratio	Lower	Upper	
146	100		
111	47.1	21.6	64.6
148	67.7	32.1	96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2023

Supervised By :Mahesh Dadoda 10/25/2023



#86

1,2-Dibromo-3-Chloropropane

Concen: 0.271 ug/l

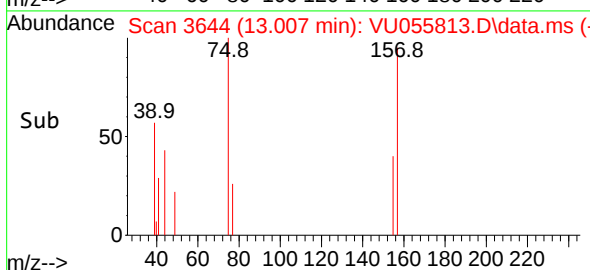
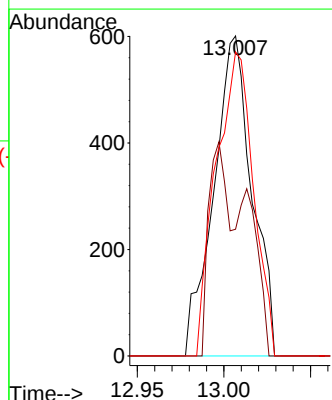
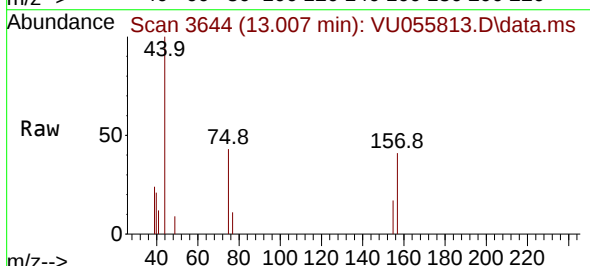
RT: 13.007 min Scan# 3644

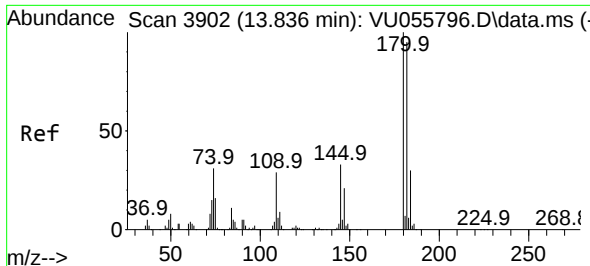
Delta R.T. 0.013 min

Lab File: VU055813.D

Acq: 19 Oct 2023 16:52

Tgt Ion:	75	Resp:	926
Ion Ratio	Lower	Upper	
75	100		
155	24.9	61.8	92.8
157	92.9	80.2	120.4





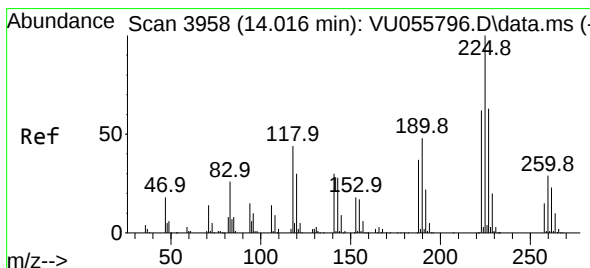
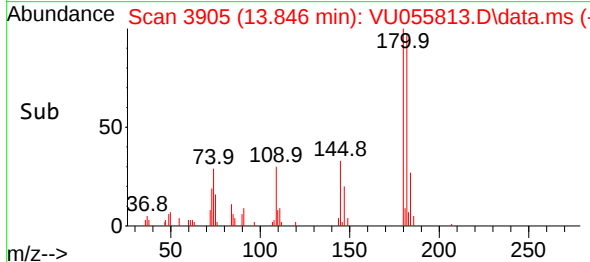
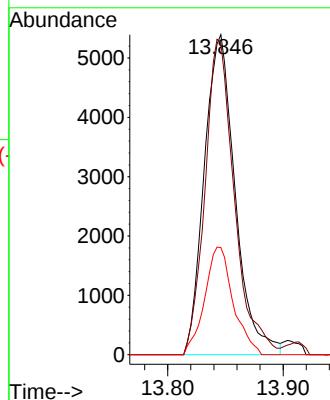
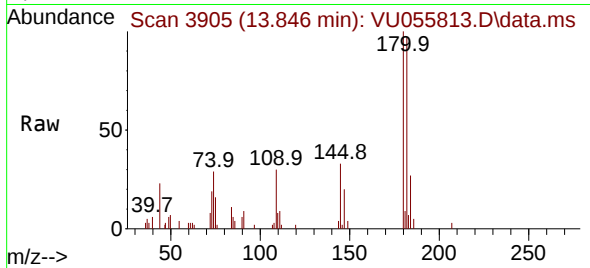
#87
1,2,4-Trichlorobenzene
Concen: 0.334 ug/l
RT: 13.846 min Scan# 3902
Delta R.T. 0.010 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:180 Resp: 1002
Ion Ratio Lower Upper
180 100
182 93.7 75.8 113.6
145 31.0 23.9 35.9

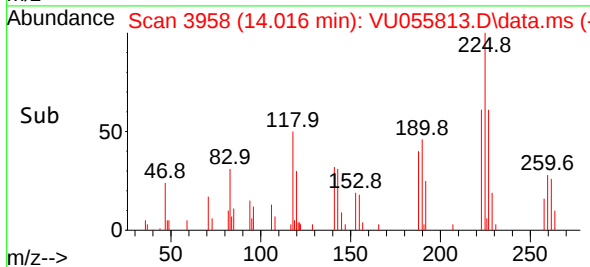
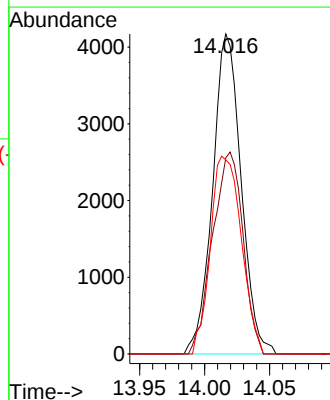
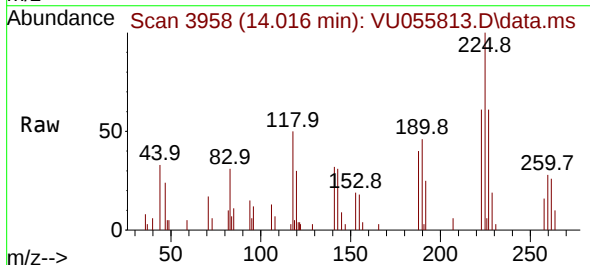
Manual Integrations
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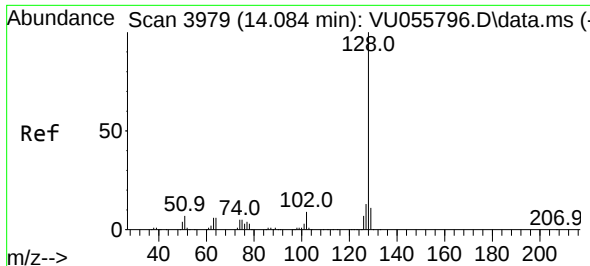
Reviewed By :John Carlone 10/20/2023
Supervised By :Mahesh Dadoda 10/25/2023



#88
Hexachlorobutadiene
Concen: 0.304 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. 0.000 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:225 Resp: 6349
Ion Ratio Lower Upper
225 100
223 67.3 50.2 75.4
227 67.1 51.5 77.3





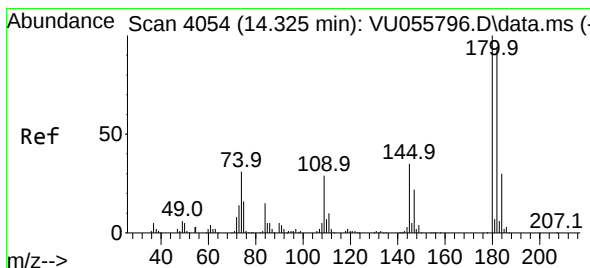
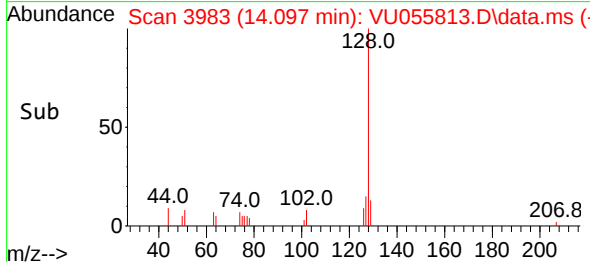
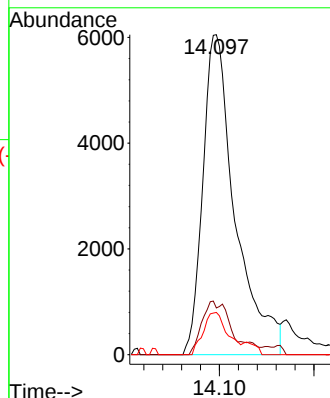
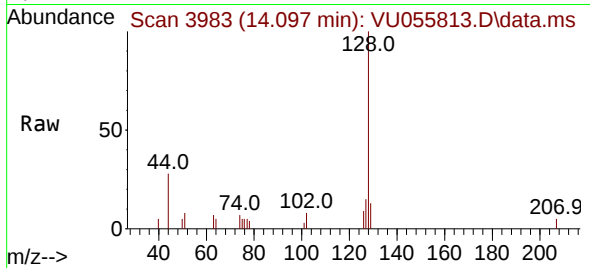
#89
Naphthalene
Concen: 0.330 ug/l
RT: 14.097 min Scan# 3979
Delta R.T. 0.013 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

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

Tgt Ion:128 Resp: 14380
Ion Ratio Lower Upper
128 100
127 15.8 10.9 16.3
129 9.9 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: 0.328 ug/l
RT: 14.331 min Scan# 4056
Delta R.T. 0.006 min
Lab File: VU055813.D
Acq: 19 Oct 2023 16:52

Tgt Ion:180 Resp: 8435
Ion Ratio Lower Upper
180 100
182 94.2 75.7 113.5
145 34.9 26.1 39.1

