

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
 Data File : VX033710.D
 Acq On : 12 Jan 2023 14:43
 Operator : JC/MD
 Sample : 01130-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230111061-02-VOA

Quant Time: Jan 13 00:02:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/13/2023
 Supervised By : Mahesh Dadoda 01/13/2023

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

Internal Standards						
1) Bromochloromethane	4.891	128	13701	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	80267	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	104747	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33356	30.067	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.233%			
60) 4-Bromofluorobenzene	11.079	95	56508	29.932	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.767%			
63) Toluene-d8	8.647	98	99937	29.812	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.367%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.374	62	587	0.423	ug/l #	78
8) Diethyl Ether	2.130	74	2632	3.776	ug/l	99
16) Carbon Disulfide	2.507	76	2218	0.728	ug/l #	91
22) cis-1,2-Dichloroethene	4.483	96	1721	1.029	ug/l #	48
23) tert-Butyl Alcohol	2.989	59	2166138	7589.250	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	9745	2.180	ug/l #	61
34) Benzene	6.025	78	23425	4.647	ug/l #	92
45) 1,4-Dioxane	7.708	88	3494m	109.953	ug/l	
62) Toluene	8.714	91	39608	6.007	ug/l	96
64) Chlorobenzene	10.079	112	4361	1.027	ug/l #	83
66) Ethyl Benzene	10.195	91	10053	1.367	ug/l	98
67) m/p-Xylenes	10.299	106	31009	10.685	ug/l	98
68) o-Xylene	10.640	106	20158	7.067	ug/l	100
70) Isopropylbenzene	10.963	105	2880	0.390	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	7605	1.240	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	18073	2.983	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	13022	3.659	ug/l	98
91) Naphthalene	13.774	128	25893	3.729	ug/l	100

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

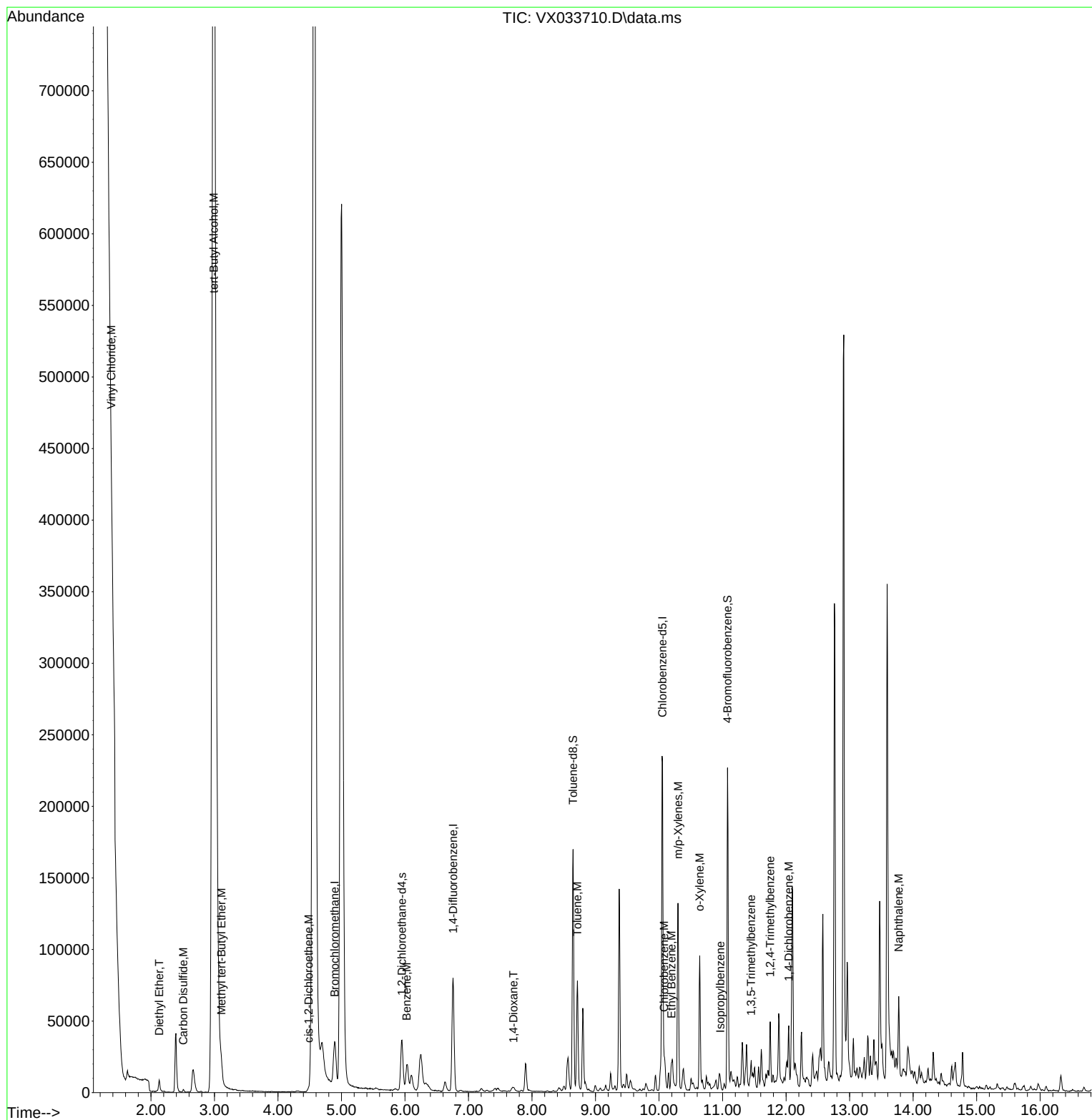
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
Data File : VX033710.D
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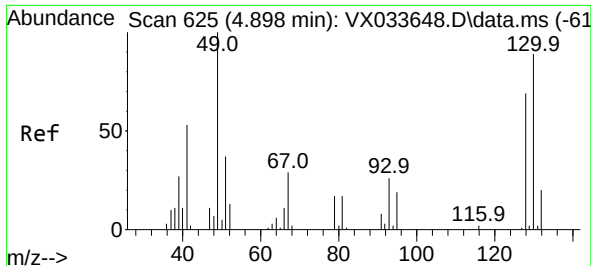
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Quant Time: Jan 13 00:02:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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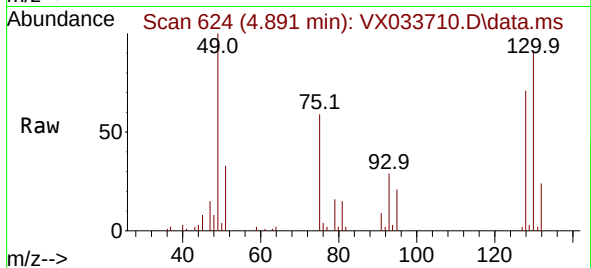
Reviewed By : John Carlone 01/13/2023
Supervised By : Mahesh Dadoda 01/13/2023





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

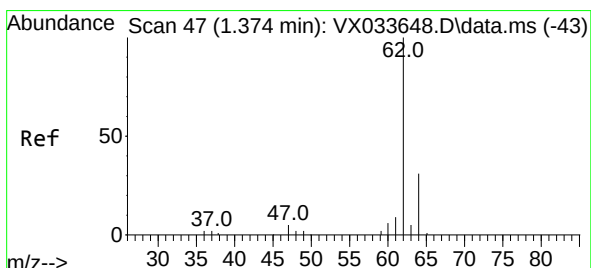
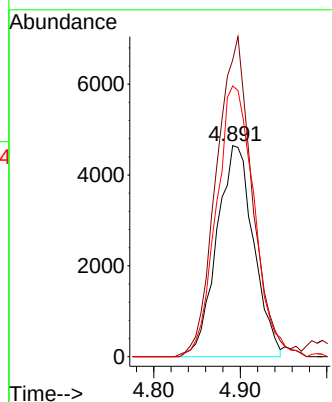
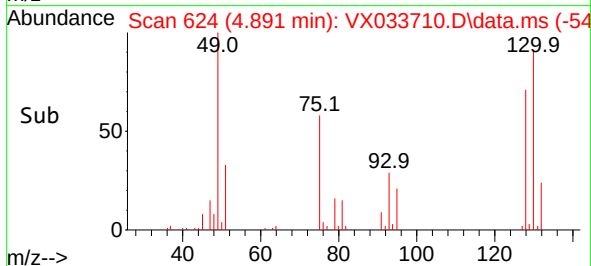
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



Tgt Ion:128 Resp: 1370
Ion Ratio Lower Upper
128 100
49 147.8 0.0 398.5
130 132.0 0.0 329.0

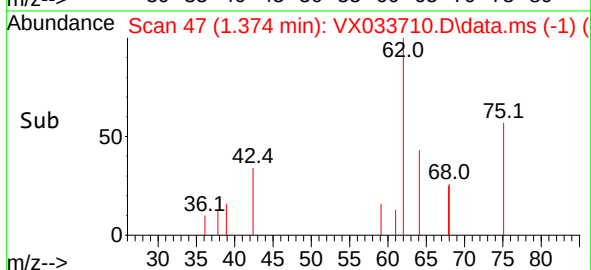
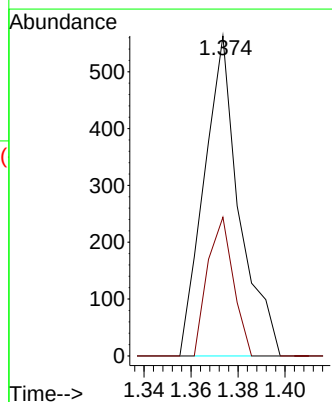
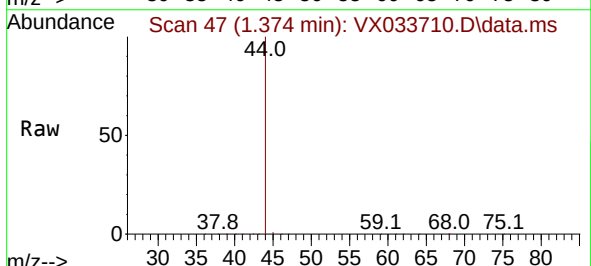
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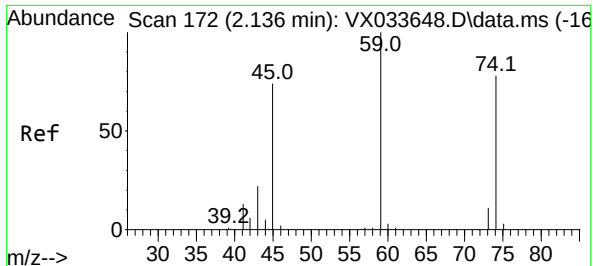
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#4
Vinyl Chloride
Concen: 0.423 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

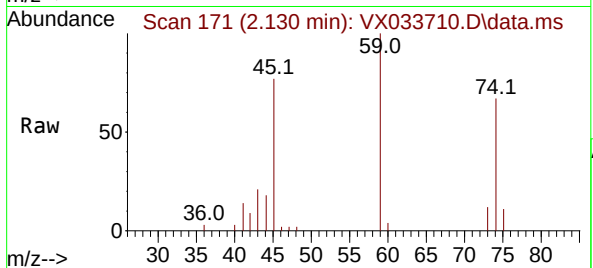
Tgt Ion: 62 Resp: 587
Ion Ratio Lower Upper
62 100
64 43.3 24.9 37.3





#8
Diethyl Ether
Concen: 3.776 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

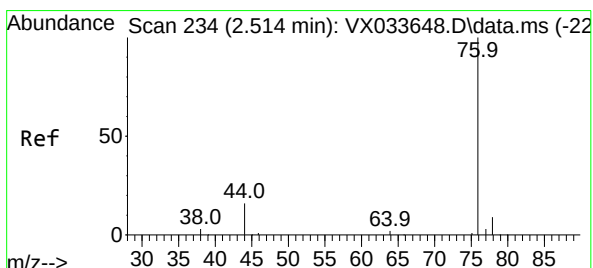
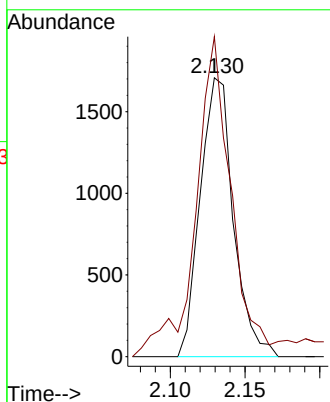
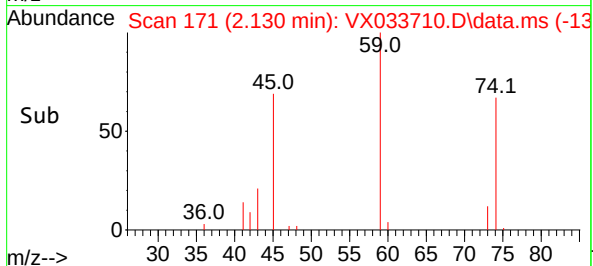
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



Tgt Ion: 74 Resp: 263
Ion Ratio Lower Upper
74 100
45 101.0 20.3 182.9

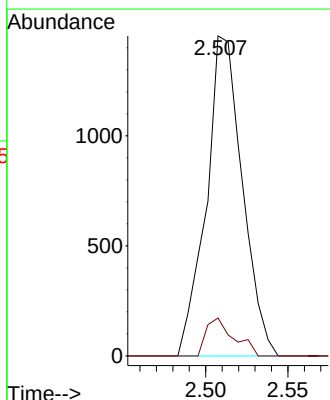
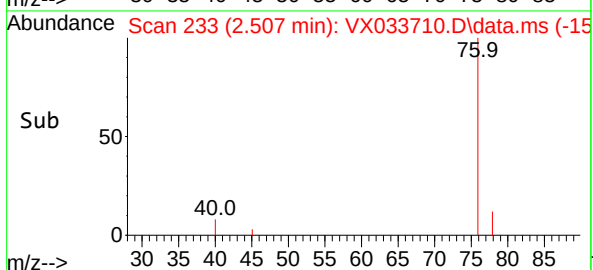
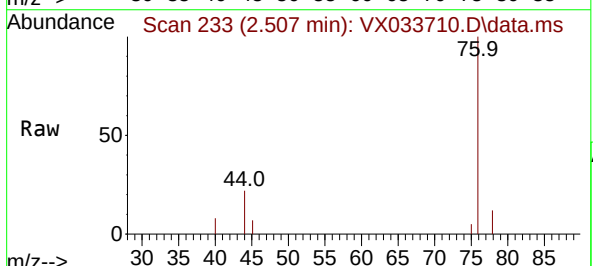
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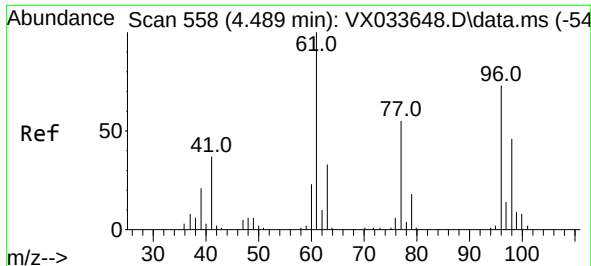
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#16
Carbon Disulfide
Concen: 0.728 ug/l
RT: 2.507 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

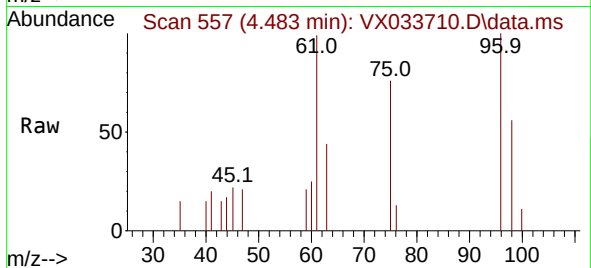
Tgt Ion: 76 Resp: 2218
Ion Ratio Lower Upper
76 100
78 11.8 7.0 10.4#





#22
 cis-1,2-Dichloroethene
 Concen: 1.029 ug/l
 RT: 4.483 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VX033710.D
 Acq: 12 Jan 2023 14:43

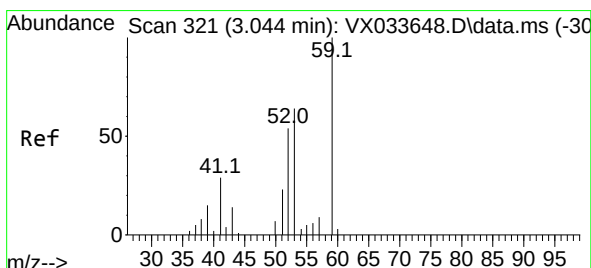
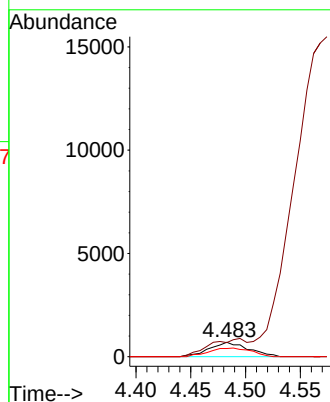
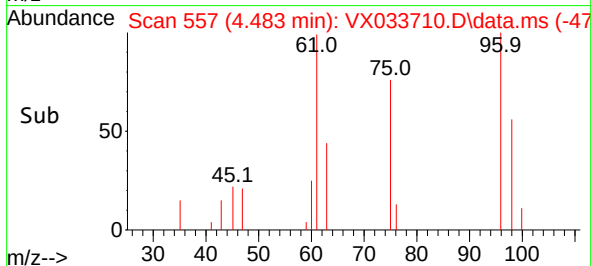
Instrument :
 MSVOA_X
 ClientSampleId :
 230111061-02-VOA



Tgt Ion: 96 Resp: 172
 Ion Ratio Lower Upper
 96 100
 61 49.6 114.2 171.2
 98 64.8 51.4 77.0

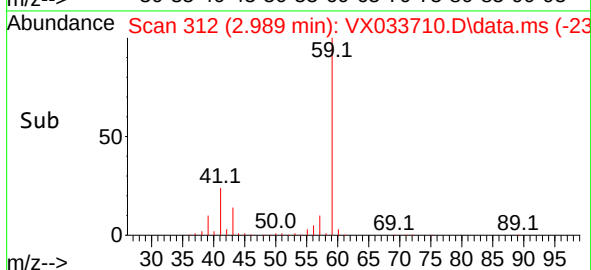
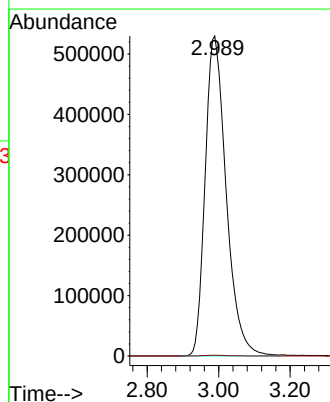
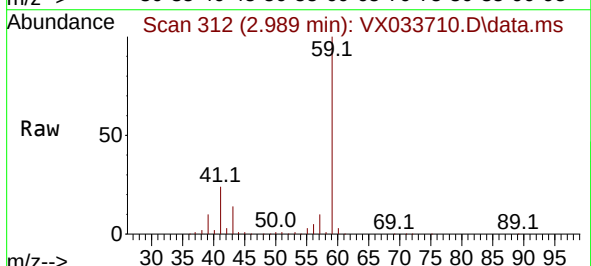
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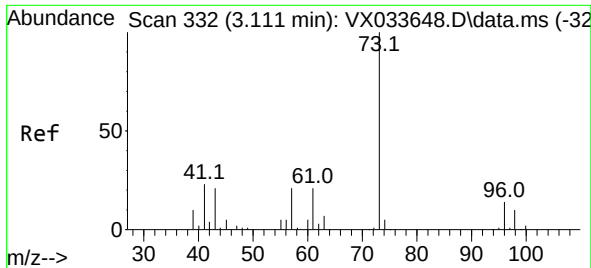
Reviewed By :John Carlone 01/13/2023
 Supervised By :Mahesh Dadoda 01/13/2023



#23
 tert-Butyl Alcohol
 Concen: 7589.250 ug/l
 RT: 2.989 min Scan# 312
 Delta R.T. -0.055 min
 Lab File: VX033710.D
 Acq: 12 Jan 2023 14:43

Tgt Ion: 59 Resp: 2166138
 Ion Ratio Lower Upper
 59 100
 52 0.2 0.2 0.2#





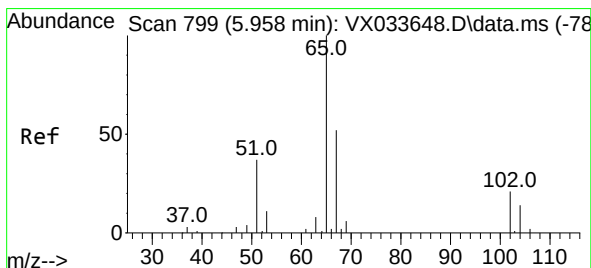
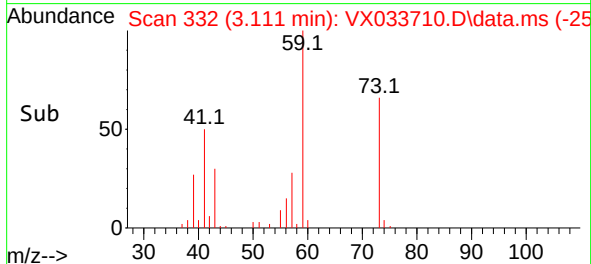
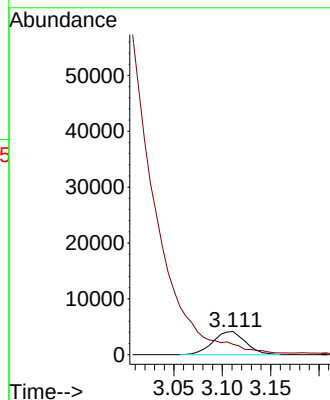
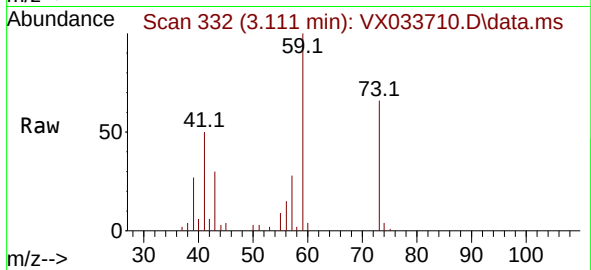
#24
Methyl tert-Butyl Ether
Concen: 2.180 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion: 73 Resp: 9745
Ion Ratio Lower Upper
73 100
43 4.0 18.1 27.1

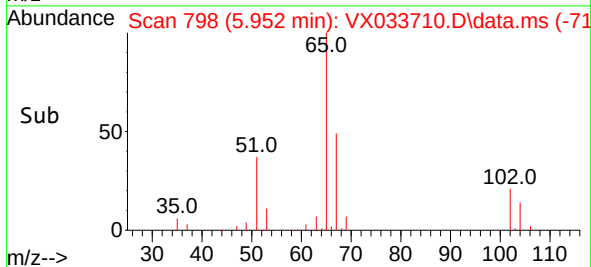
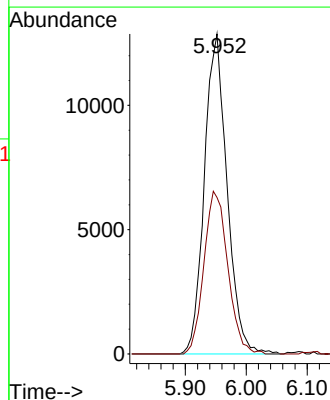
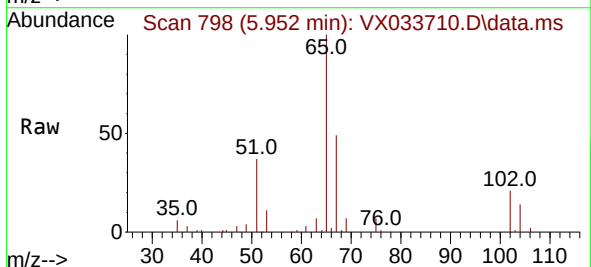
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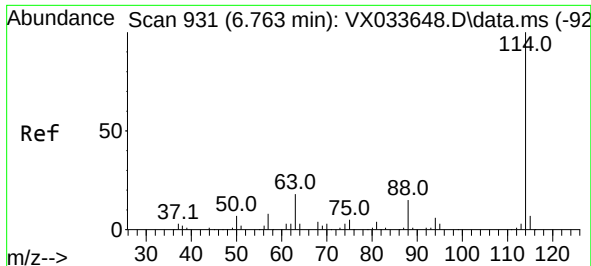
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#27
1,2-Dichloroethane-d4
Concen: 30.067 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

Tgt Ion: 65 Resp: 33356
Ion Ratio Lower Upper
65 100
67 53.2 40.4 60.6





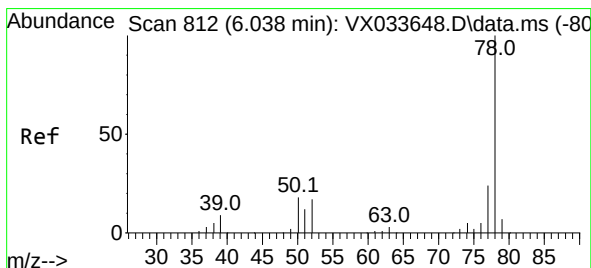
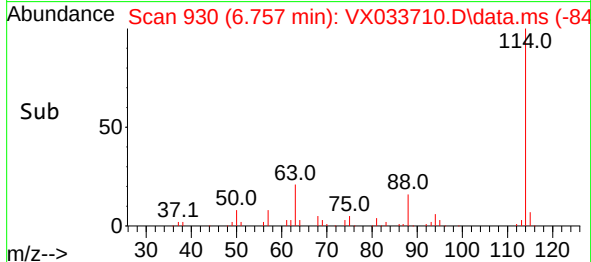
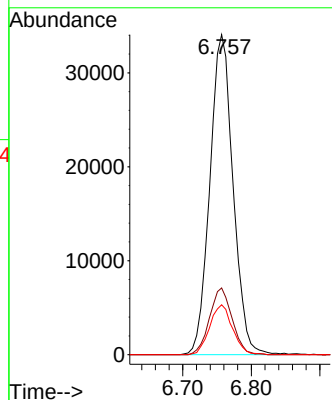
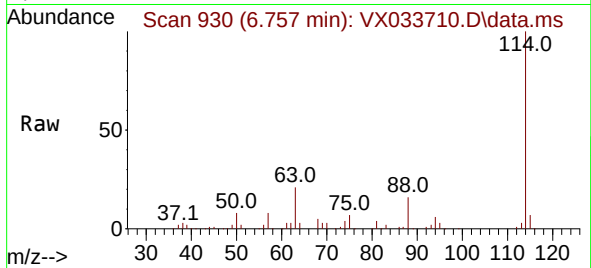
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion:114 Resp: 8026
Ion Ratio Lower Upper
114 100
63 20.1 15.5 23.3
88 15.4 12.4 18.6

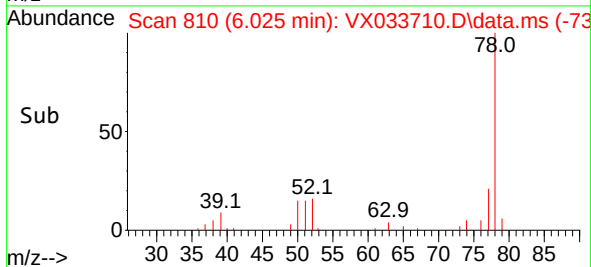
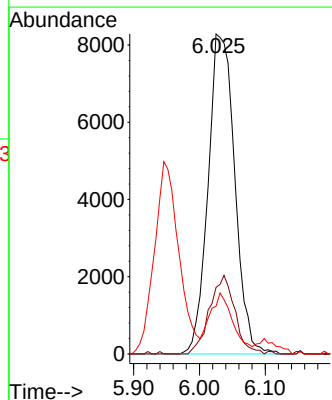
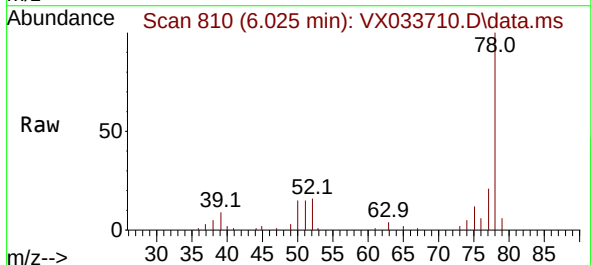
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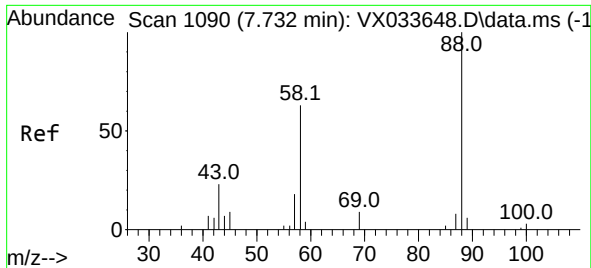
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#34
Benzene
Concen: 4.647 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.012 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

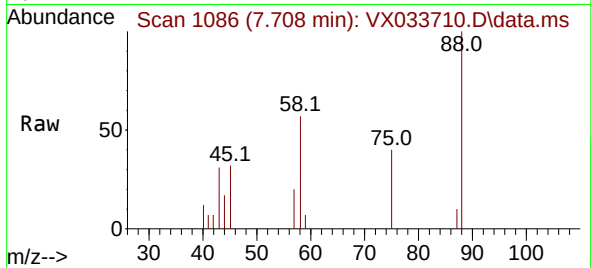
Tgt Ion: 78 Resp: 23425
Ion Ratio Lower Upper
78 100
77 20.8 19.5 29.3
51 12.6 13.0 19.6#





#45
1,4-Dioxane
Concen: 109.953 ug/l m
RT: 7.708 min Scan# 1086
Delta R.T. -0.025 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

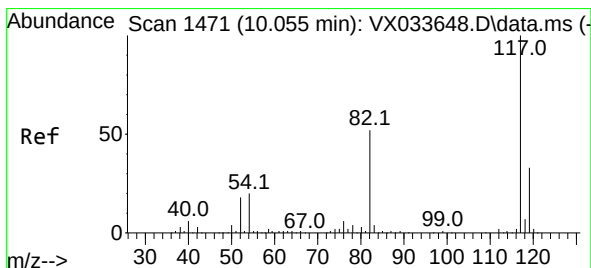
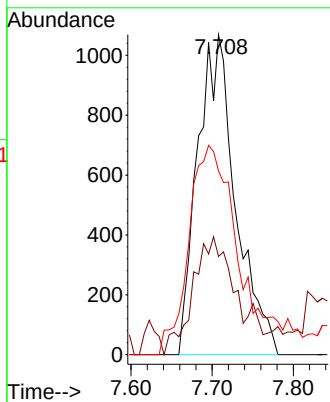
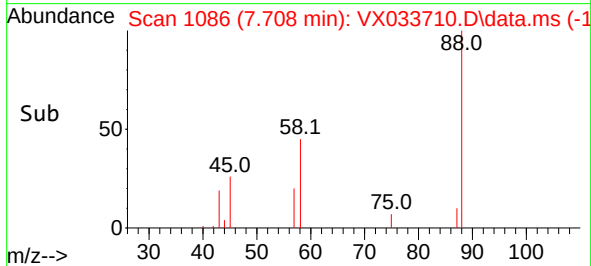
Instrument :
MSVOA_X
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230111061-02-VOA



Tgt Ion: 88 Resp: 3494
Ion Ratio Lower Upper
88 100
43 28.3 1.2 1.8
58 0.0 8.5 12.7

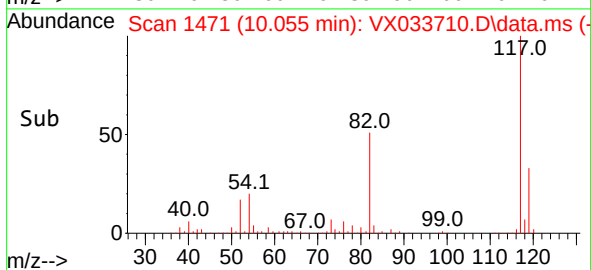
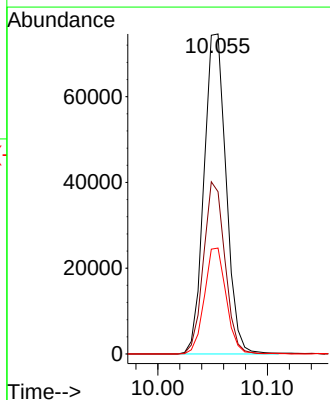
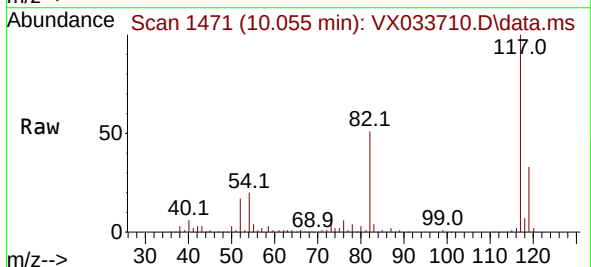
Manual Integrations
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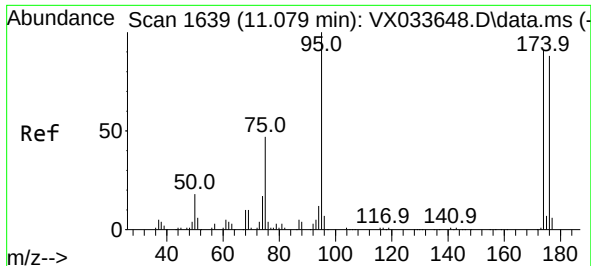
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

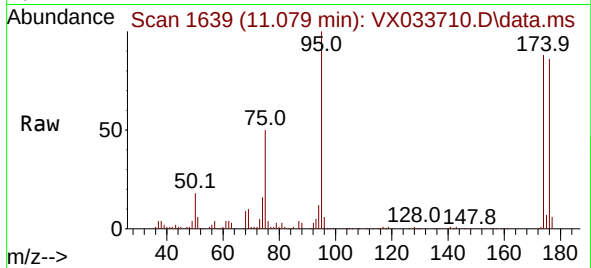
Tgt Ion:117 Resp: 104747
Ion Ratio Lower Upper
117 100
82 52.1 41.9 62.9
119 32.5 25.6 38.4





#60
4-Bromofluorobenzene
Concen: 29.932 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

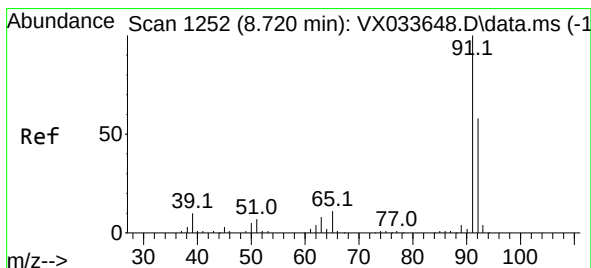
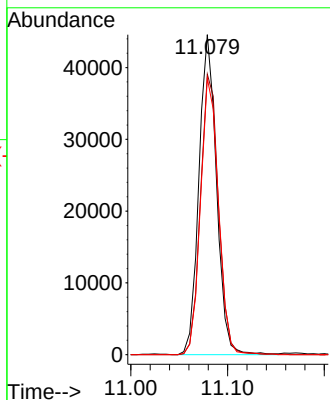
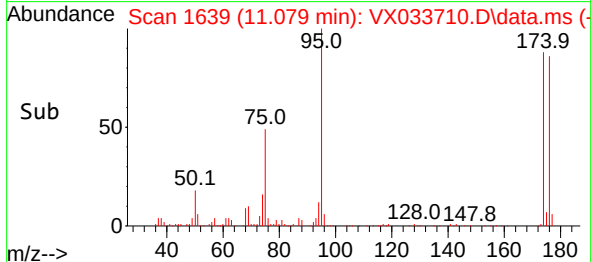
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



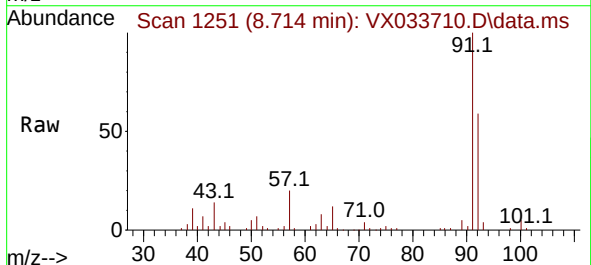
Tgt Ion: 95 Resp: 56508
Ion Ratio Lower Upper
95 100
174 90.0 73.7 110.5
176 87.6 71.0 106.4

Manual Integrations
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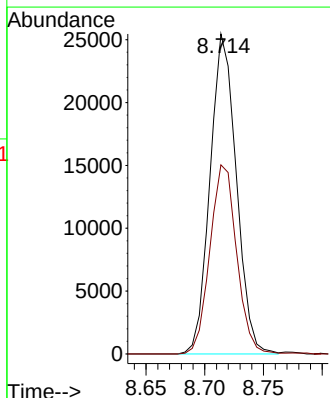
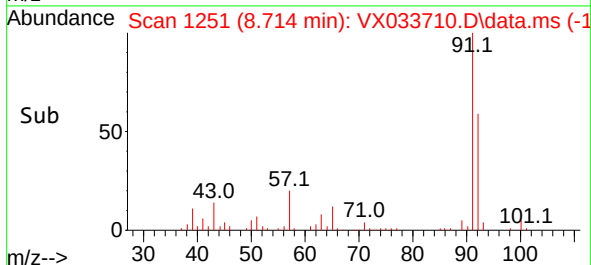
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023

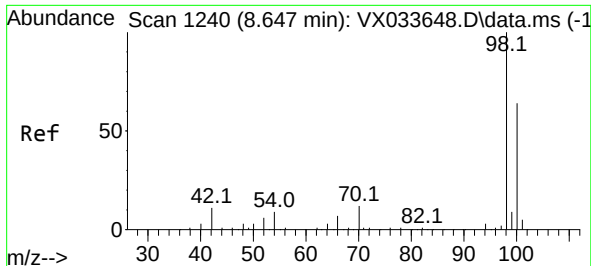


#62
Toluene
Concen: 6.007 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43



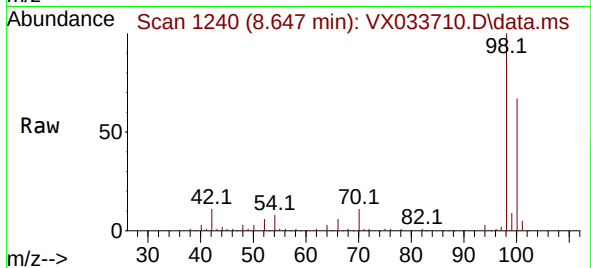
Tgt Ion: 91 Resp: 39608
Ion Ratio Lower Upper
91 100
92 60.0 45.8 68.8





#63
Toluene-d8
Concen: 29.812 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

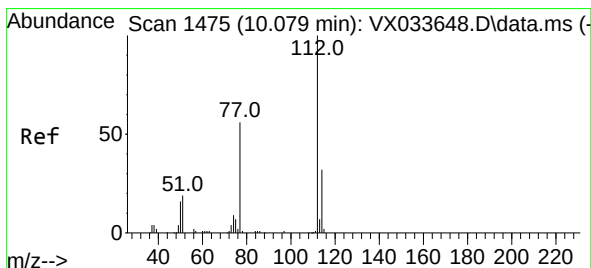
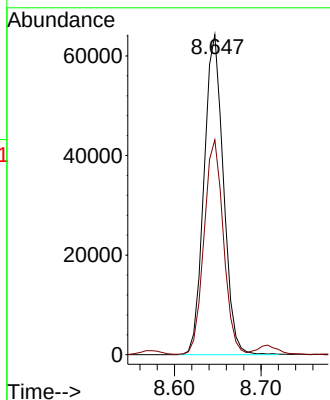
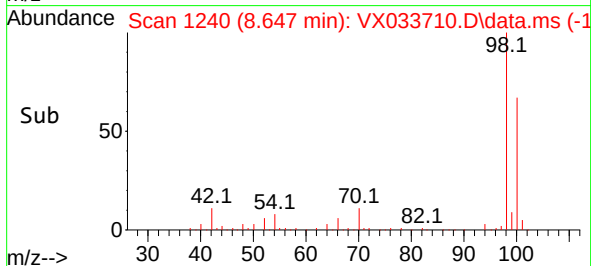
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



Tgt Ion: 98 Resp: 9993
Ion Ratio Lower Upper
98 100
100 67.2 53.1 79.7

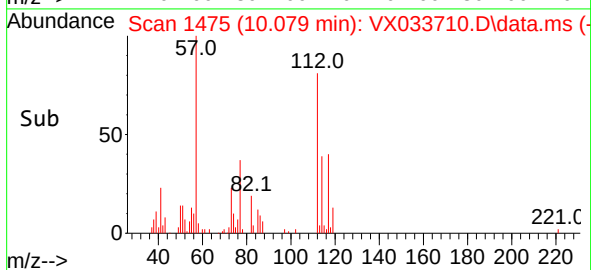
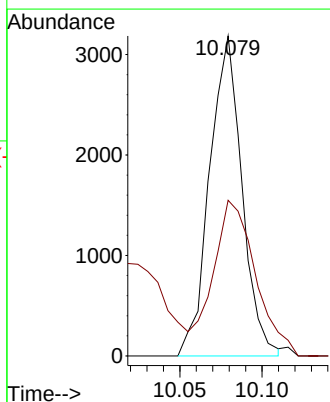
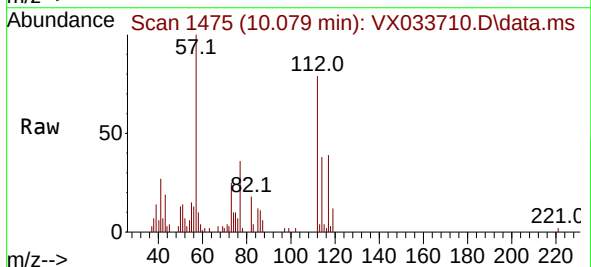
Manual Integrations
APPROVED

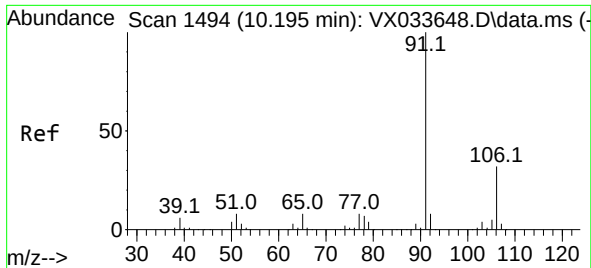
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#64
Chlorobenzene
Concen: 1.027 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

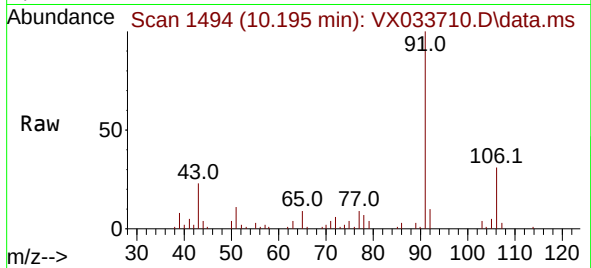
Tgt Ion:112 Resp: 4361
Ion Ratio Lower Upper
112 100
114 41.3 25.6 38.4#





#66
Ethyl Benzene
Concen: 1.367 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

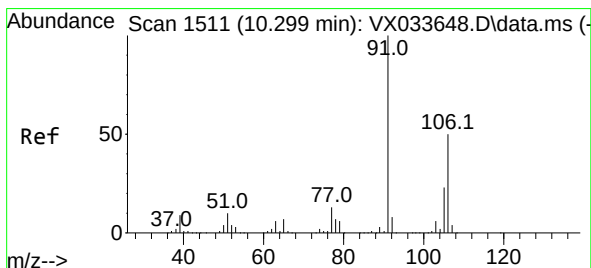
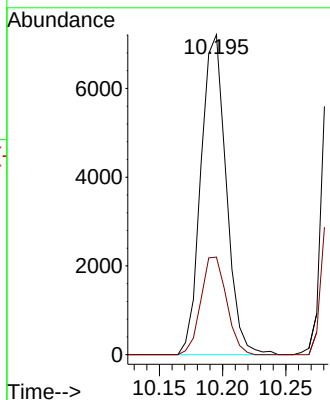
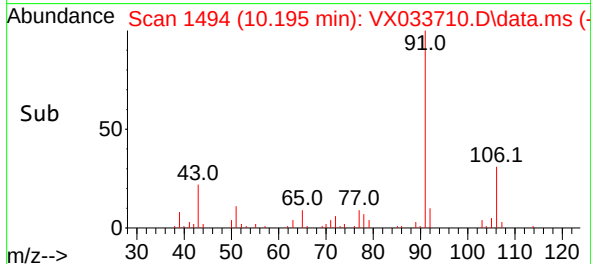
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



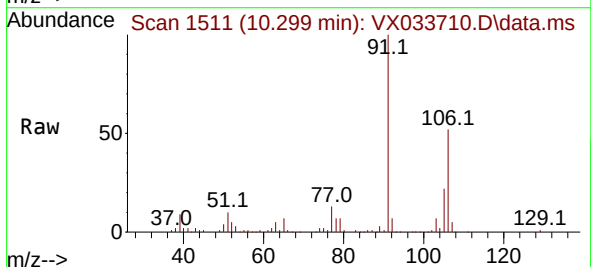
Tgt Ion: 91 Resp: 1005
Ion Ratio Lower Upper
91 100
106 30.5 25.2 37.8

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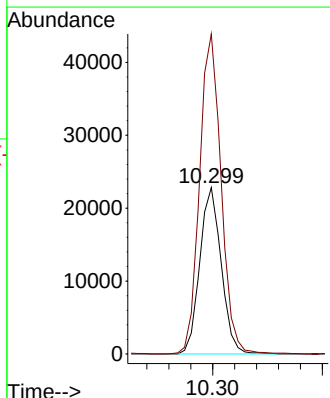
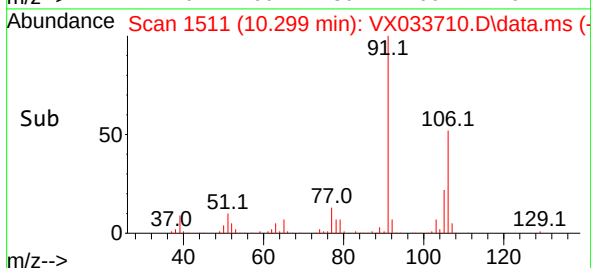
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023

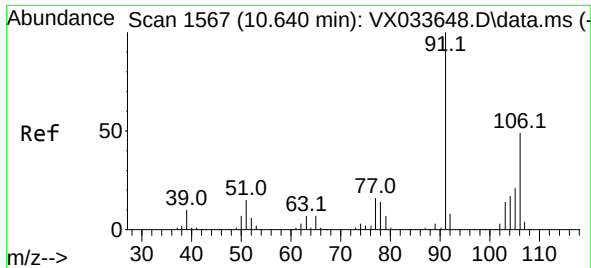


#67
m/p-Xylenes
Concen: 10.685 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43



Tgt Ion:106 Resp: 31009
Ion Ratio Lower Upper
106 100
91 193.4 157.3 235.9





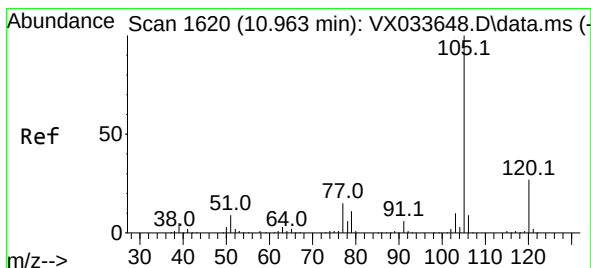
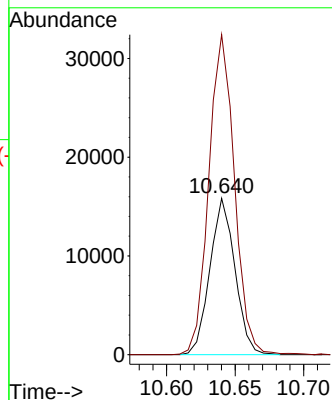
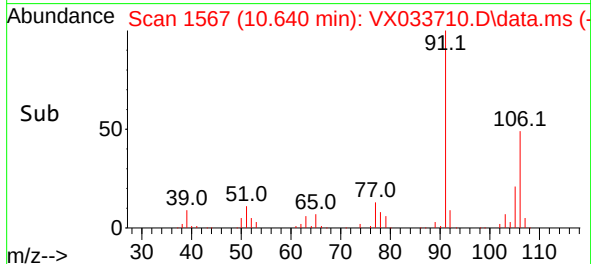
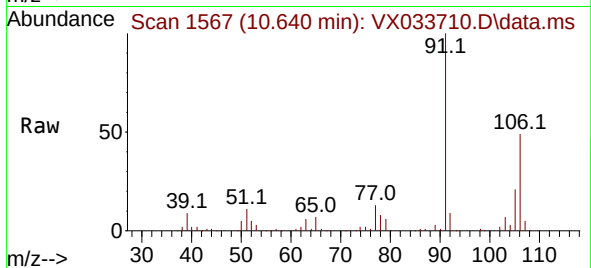
#68
o-Xylene
Concen: 7.067 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion:106 Resp: 2015
Ion Ratio Lower Upper
106 100
91 208.8 104.6 313.8

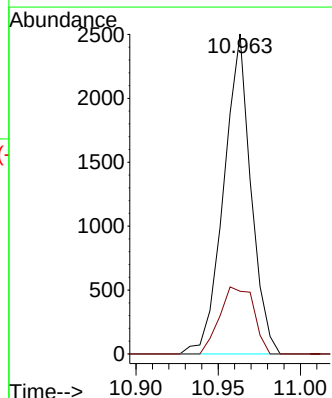
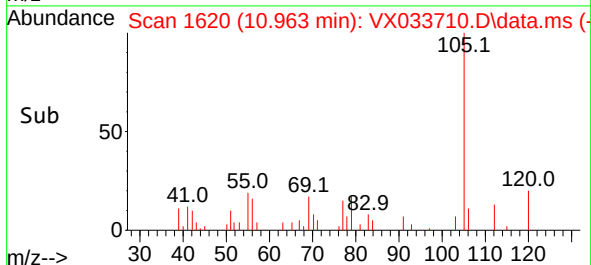
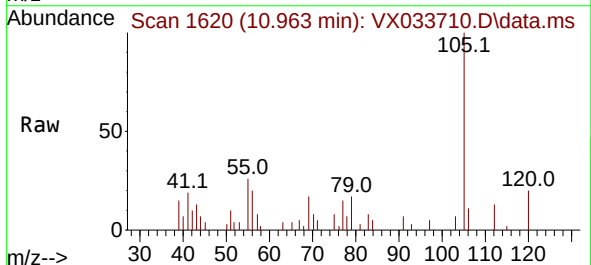
Manual Integrations
APPROVED

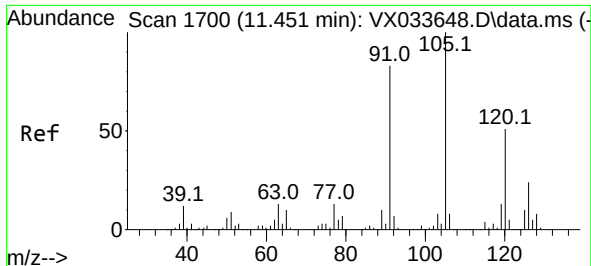
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#70
Isopropylbenzene
Concen: 0.390 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

Tgt Ion:105 Resp: 2880
Ion Ratio Lower Upper
105 100
120 26.3 18.7 34.7





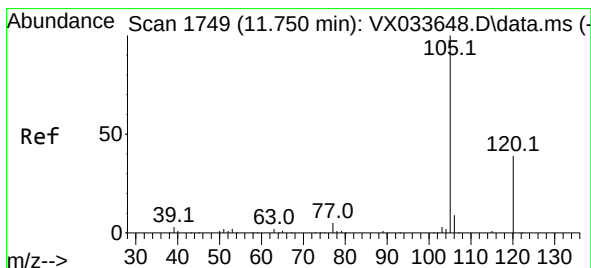
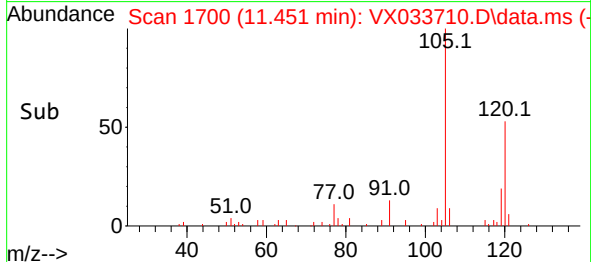
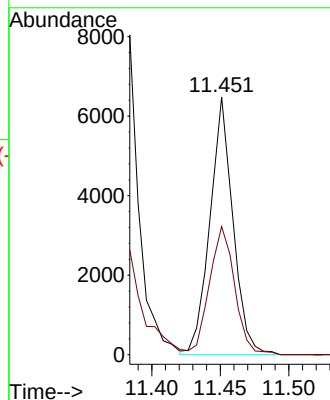
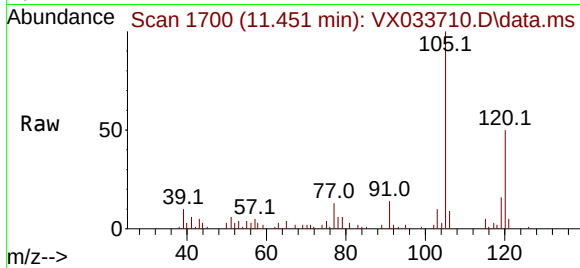
#76
1,3,5-Trimethylbenzene
Concen: 1.240 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA

Tgt Ion:105 Resp: 760
Ion Ratio Lower Upper
105 100
120 51.2 0.0 100.4

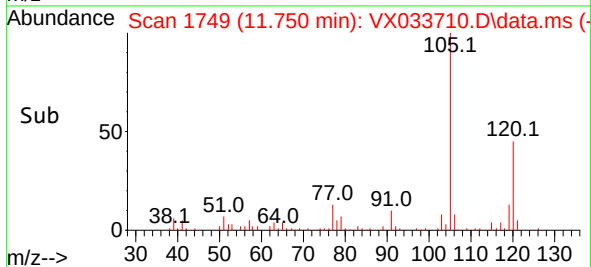
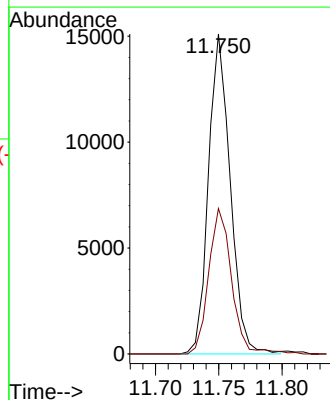
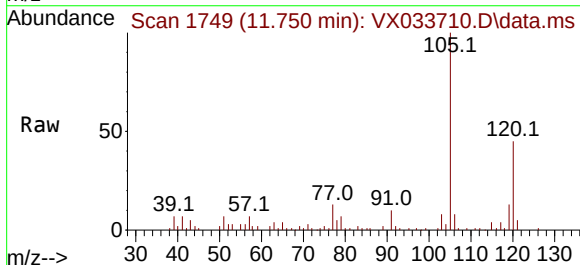
Manual Integrations
APPROVED

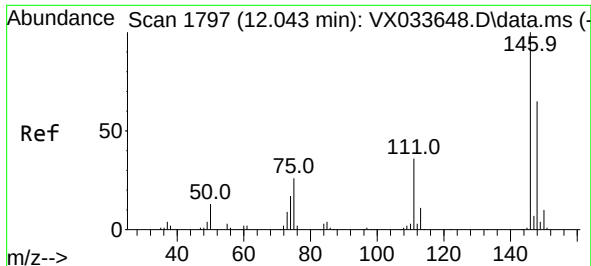
Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#80
1,2,4-Trimethylbenzene
Concen: 2.983 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

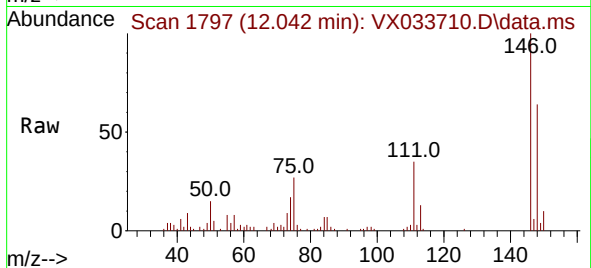
Tgt Ion:105 Resp: 18073
Ion Ratio Lower Upper
105 100
120 46.8 0.0 91.2





#84
1,4-Dichlorobenzene
Concen: 3.659 ug/l
RT: 12.042 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43

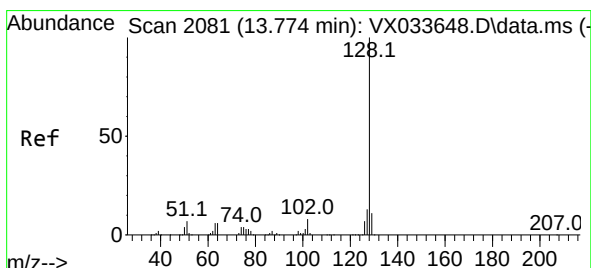
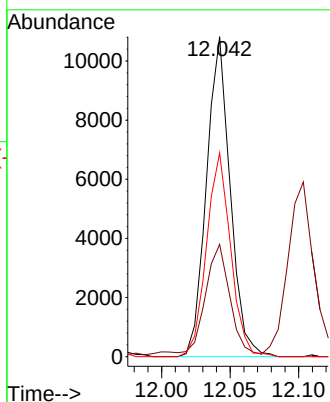
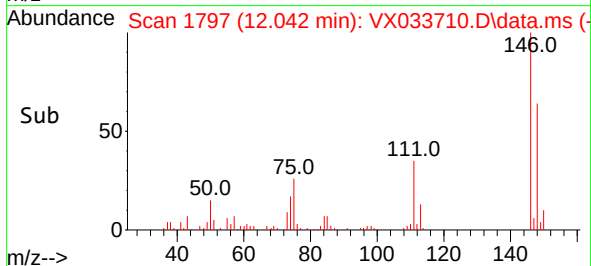
Instrument :
MSVOA_X
ClientSampleId :
230111061-02-VOA



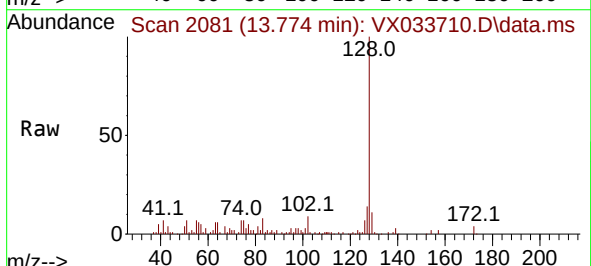
Tgt Ion:146 Resp: 1302
Ion Ratio Lower Upper
146 100
111 34.5 18.3 54.9
148 64.7 31.9 95.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/13/2023
Supervised By :Mahesh Dadoda 01/13/2023



#91
Naphthalene
Concen: 3.729 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX033710.D
Acq: 12 Jan 2023 14:43



Tgt Ion:128 Resp: 25893
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.0 8.8 13.2

