

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121423\
 Data File : VW033365.D
 Acq On : 15 Dec 2023 03:11
 Operator : SY/MD
 Sample : 05802-15
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F7B26

Quant Time: Dec 15 04:10:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 08 21:51:12 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023
 Supervised By :Mahesh Dadoda 12/16/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	203016	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	216517	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	142693m	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	66221	54.564	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 109.120%			
7) Chloroethane-d5	1.532	69	29541	34.934	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 69.860%#			
11) 1,1-Dichloroethene-d2	2.063	65	16167	35.017	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 70.040%			
21) 2-Butanone-d5	3.815	46	63794	105.832	ug/L	0.04
Spiked Amount 100.000	Range 40 - 130		Recovery = 105.830%			
24) Chloroform-d	4.249	84	119253	46.302	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 92.600%			
26) 1,2-Dichloroethane-d4	4.941	65	82908	51.776	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 103.560%			
32) Benzene-d6	4.960	84	220438	43.532	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 87.060%			
36) 1,2-Dichloropropane-d6	5.989	67	54706	40.179	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 80.360%			
41) Toluene-d8	7.243	98	228190	47.238	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.480%			
43) trans-1,3-Dichloroprop...	7.551	79	37813	43.919	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 87.840%			
47) 2-Hexanone-d5	8.021	63	46484	84.983	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 84.980%			
56) 1,1,2,2-Tetrachloroeth...	10.153	84	91710	47.383	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 94.760%			
66) 1,2-Dichlorobenzene-d4	11.561	152	136116m	53.613	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.220%			
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.282	62	2933511	2089.895	ug/L	97
12) 1,1-Dichloroethene	2.072	96	44875	44.090	ug/L	89
17) trans-1,2-Dichloroethene	2.696	96	81198	60.761	ug/L	88
18) Methyl tert-butyl Ether	2.706	73	23270	5.732	ug/L	97
19) 1,1-Dichloroethane	3.114	63	53073	23.995	ug/L	97
20) cis-1,2-Dichloroethene	3.812	96	23635981m	16668.877	ug/L	
27) 1,2-Dichloroethane	5.047	62	26412	13.140	ug/L	97
29) Cyclohexane	4.577	56	5709	2.855	ug/L #	59
33) Benzene	5.008	78	595336	108.505	ug/L	100
34) Trichloroethene	5.838	95	19606	11.961	ug/L	96
42) Toluene	7.313	91	952262	154.019	ug/L	99
46) Tetrachloroethene	7.905	164	58153	41.270	ug/L	95
51) Chlorobenzene	8.812	112	1916421	440.777	ug/L	97
52) Ethylbenzene	8.953	91	9967	1.401	ug/L	94
53) m,p-Xylene	9.075	106	11258	3.995	ug/L	98
54) o-Xylene	9.481	106	10947	3.936	ug/L	89
62) 1,3,5-Trimethylbenzene	10.477	105	3708	0.559	ug/L	97
63) 1,2,4-Trimethylbenzene	10.853	105	30987	4.489	ug/L	99
64) 1,3-Dichlorobenzene	11.117	146	1840686	418.762	ug/L	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.210	146	3014377	660.183	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	2278404	528.729	ug/L	99
70) 1,2,4-trichlorobenzene	13.204	180	4388	1.349	ug/L	93

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

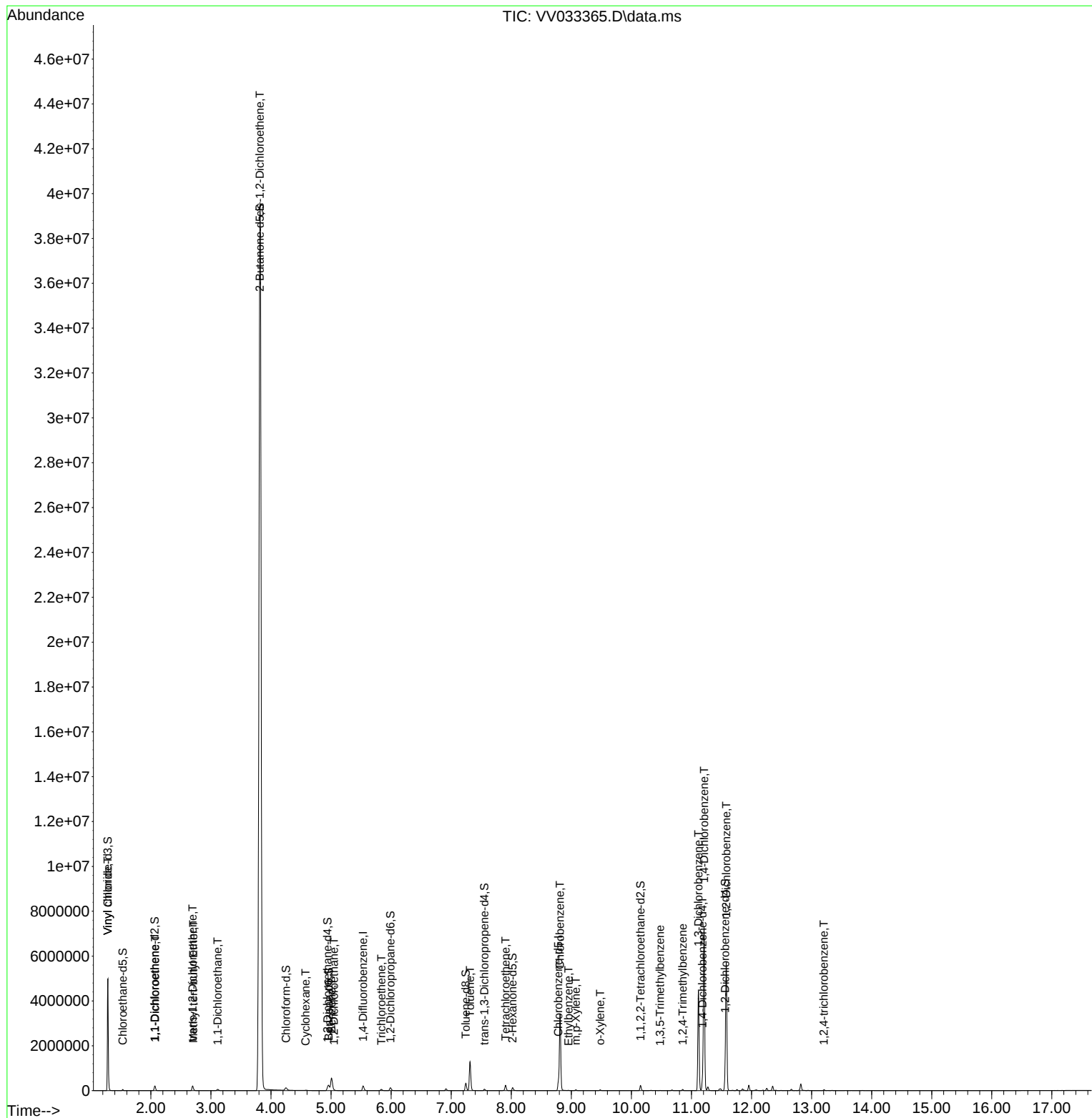
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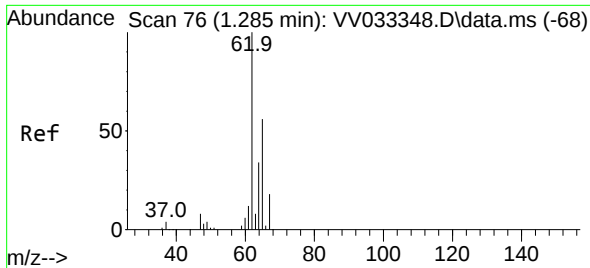
Instrument :
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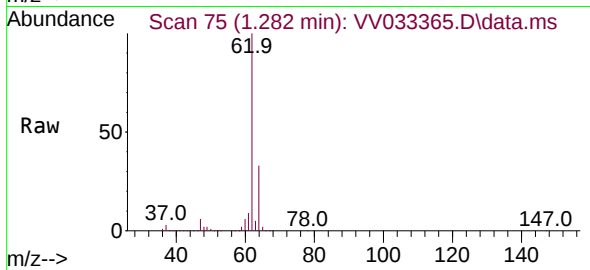
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
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#5
 Vinyl chloride
 Concen: 2089.895 ug/L
 RT: 1.282 min Scan# 76
 Delta R.T. -0.003 min
 Lab File: VV033365.D
 Acq: 15 Dec 2023 03:11

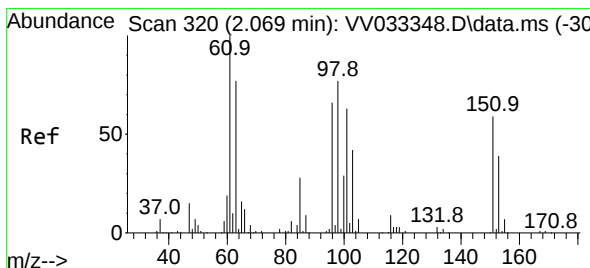
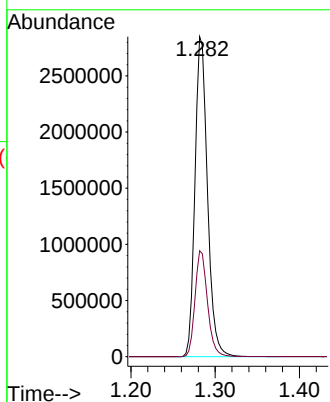
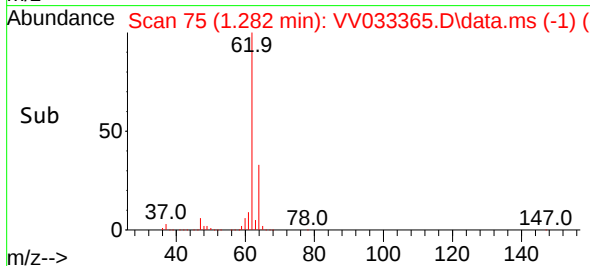
Instrument :
 MSVOA_V
 ClientSampleId :
 F7B26



Tgt Ion: 62 Resp: 293351
 Ion Ratio Lower Upper
 62 100
 64 33.1 24.2 45.0

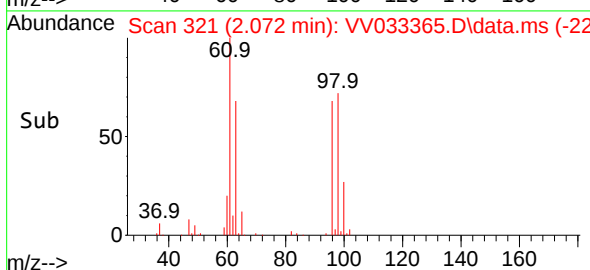
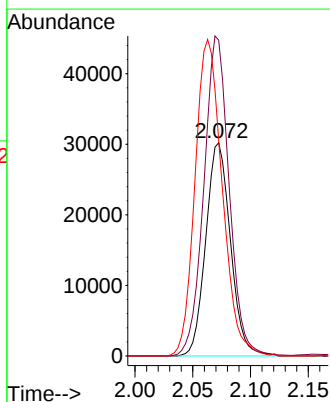
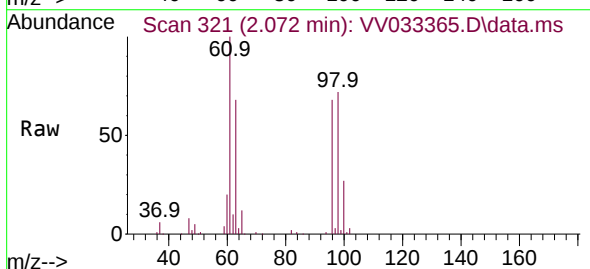
Manual Integrations
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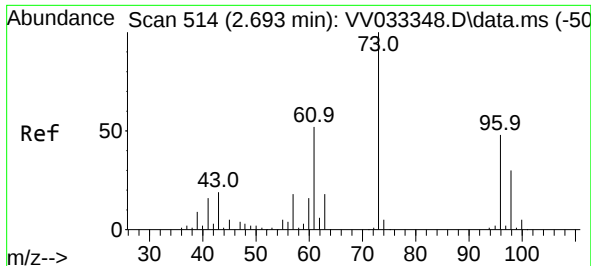
Reviewed By :Semsettin Yesilyurt 12/16/2023
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#12
 1,1-Dichloroethene
 Concen: 44.090 ug/L
 RT: 2.072 min Scan# 321
 Delta R.T. 0.003 min
 Lab File: VV033365.D
 Acq: 15 Dec 2023 03:11

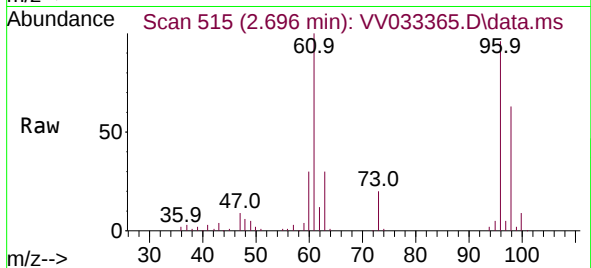
Tgt Ion: 96 Resp: 44875
 Ion Ratio Lower Upper
 96 100
 61 148.1 109.1 202.7
 63 101.1 85.3 158.3





#17
trans-1,2-Dichloroethene
Concen: 60.761 ug/L
RT: 2.696 min Scan# 514
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

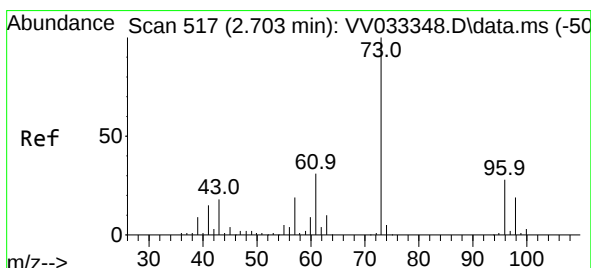
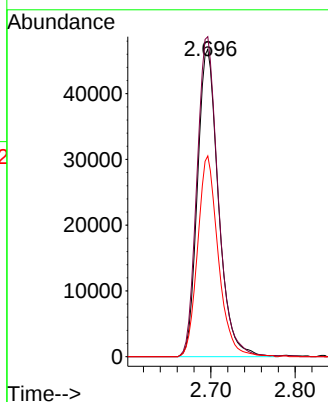
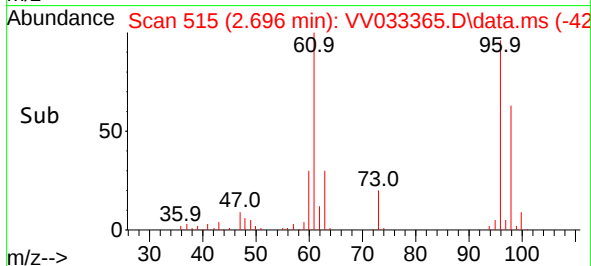
Instrument :
MSVOA_V
ClientSampleId :
F7B26



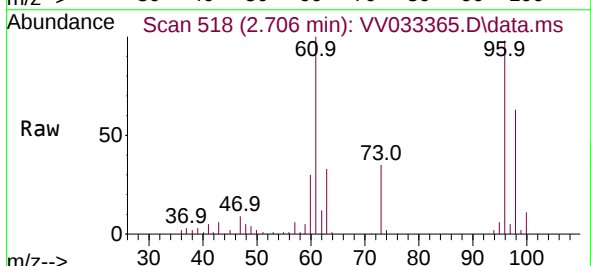
Tgt Ion: 96 Resp: 81198
Ion Ratio Lower Upper
96 100
61 104.1 86.5 160.6
98 65.3 45.1 83.7

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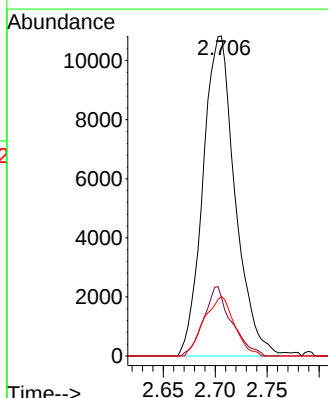
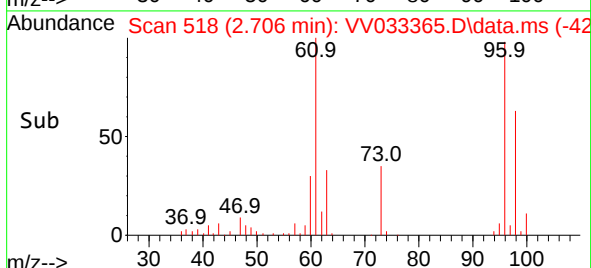
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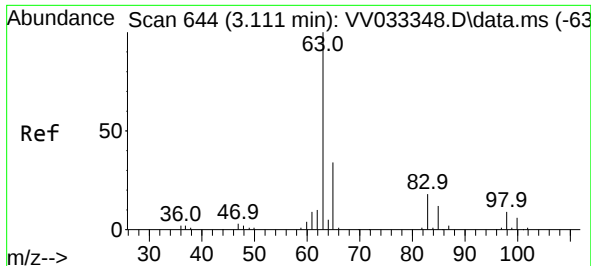


#18
Methyl tert-butyl Ether
Concen: 5.732 ug/L
RT: 2.706 min Scan# 518
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11



Tgt Ion: 73 Resp: 23270
Ion Ratio Lower Upper
73 100
43 18.8 15.4 23.2
57 17.5 16.1 24.1





#19

1,1-Dichloroethane

Concen: 23.995 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.006 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

ClientSampleId :

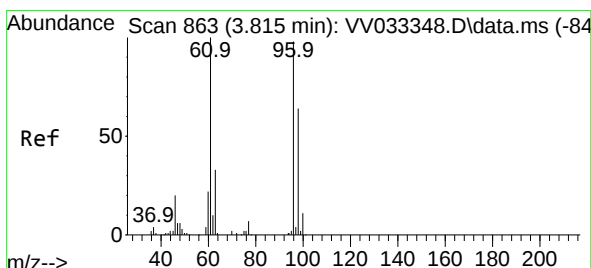
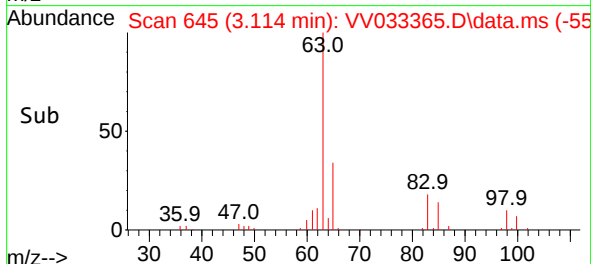
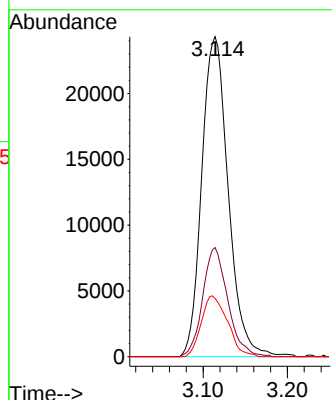
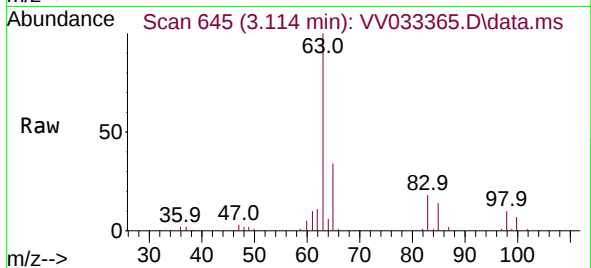
F7B26

Tgt Ion: 63 Resp: 5307
 Ion Ratio Lower Upper
 63 100
 65 34.1 23.0 42.6
 83 18.2 11.4 21.2

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#20

cis-1,2-Dichloroethene

Concen: 16668.877 ug/L m

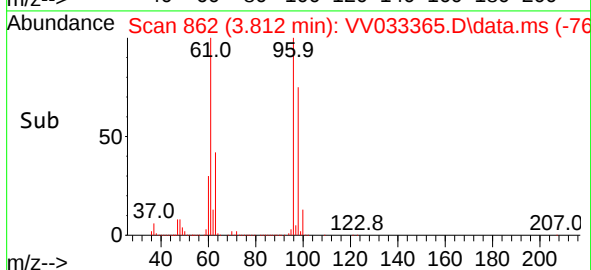
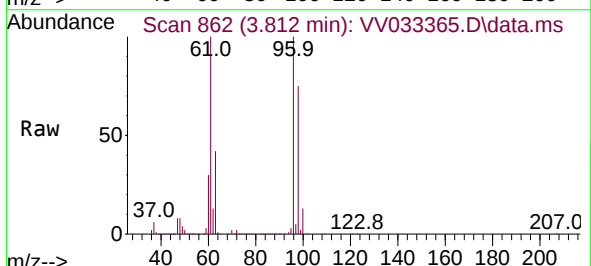
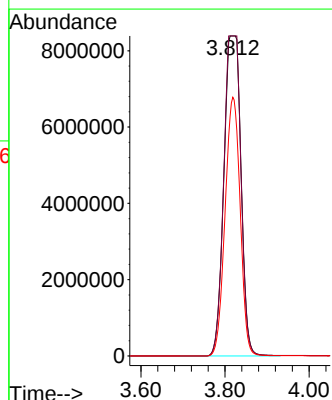
RT: 3.812 min Scan# 862

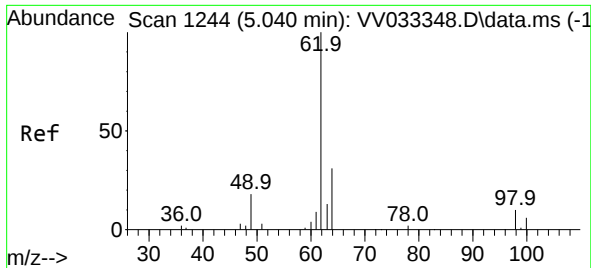
Delta R.T. 0.000 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Tgt Ion: 96 Resp:23635981
 Ion Ratio Lower Upper
 96 100
 61 100.0 79.1 146.9
 98 74.9 45.1 83.7





#27

1,2-Dichloroethane

Concen: 13.140 ug/L

RT: 5.047 min Scan# 1100

Delta R.T. 0.010 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

ClientSampleId :

F7B26

Tgt Ion: 62 Resp: 2641

Ion Ratio Lower Upper

62 100

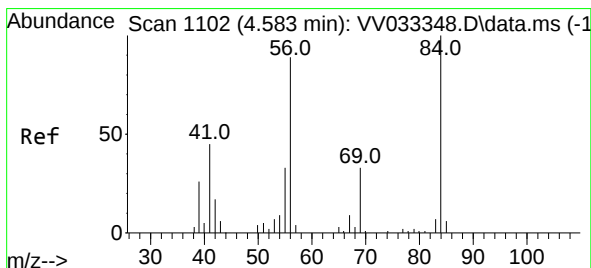
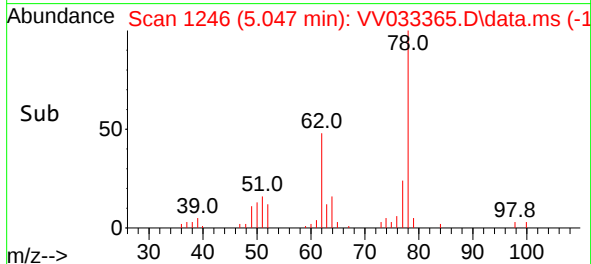
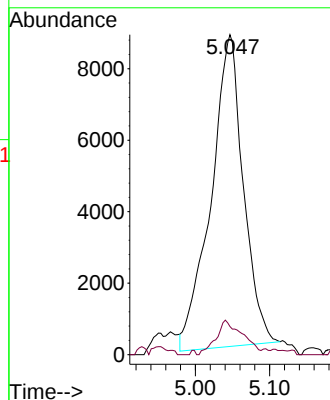
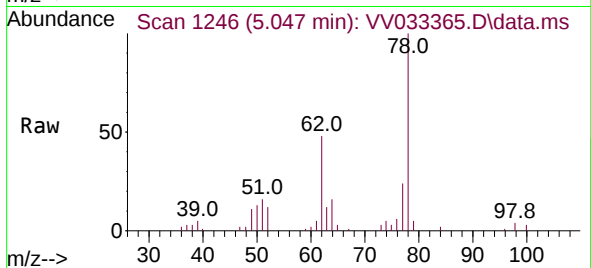
98 8.8 7.8 11.8

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#29

Cyclohexane

Concen: 2.855 ug/L

RT: 4.577 min Scan# 1100

Delta R.T. -0.006 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

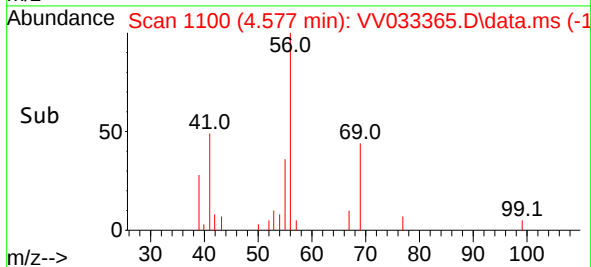
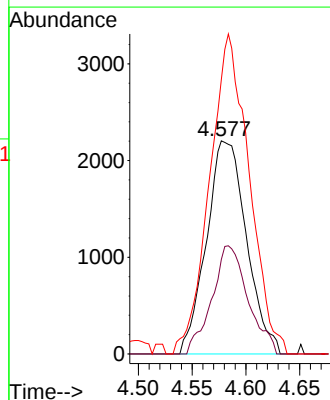
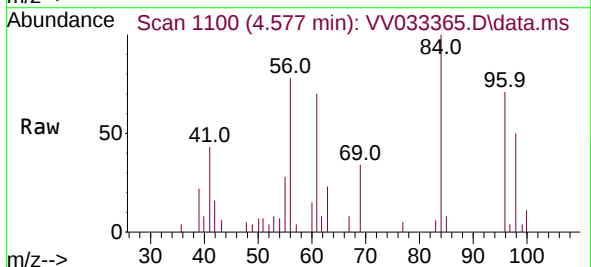
Tgt Ion: 56 Resp: 5709

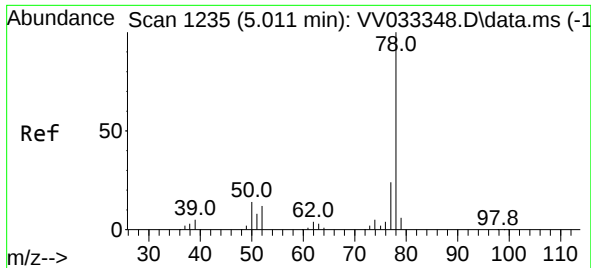
Ion Ratio Lower Upper

56 100

69 45.7 26.9 40.3#

84 148.2 80.6 121.0#





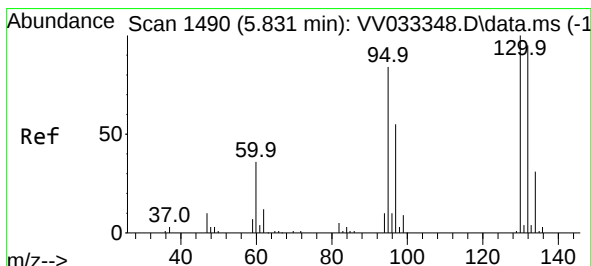
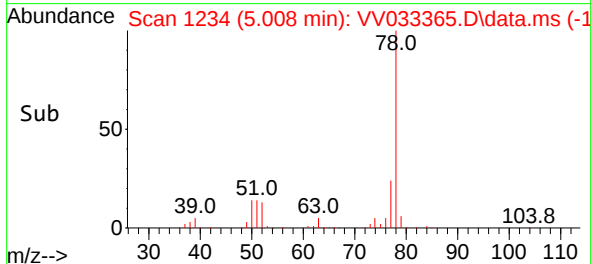
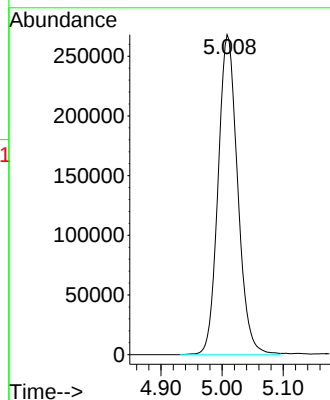
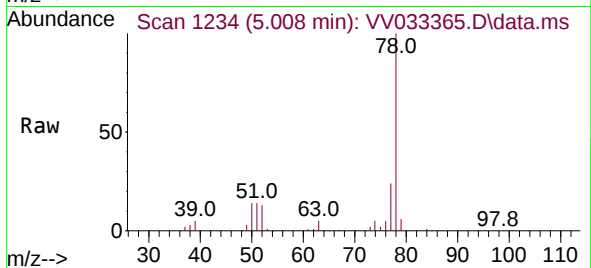
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Benzene
Concen: 108.505 ug/L
RT: 5.008 min Scan# 11
Delta R.T. 0.003 min
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Tgt Ion: 78 Resp: 595336

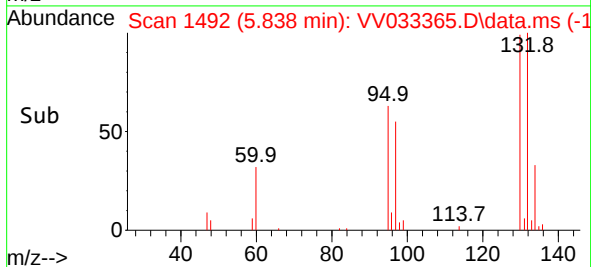
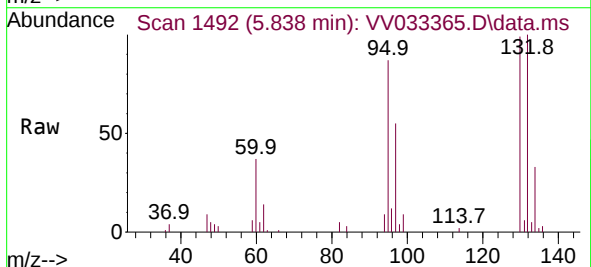
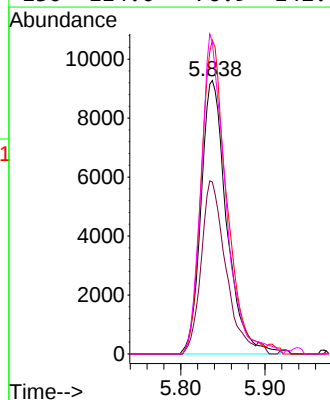
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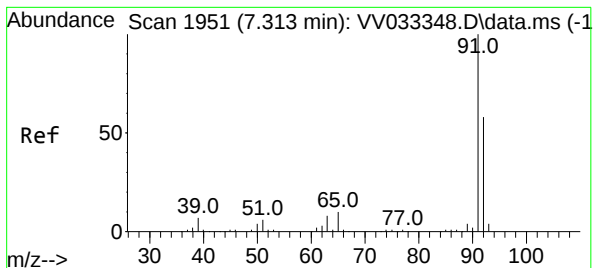
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#34
Trichloroethene
Concen: 11.961 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion: 95 Resp: 19606
Ion Ratio Lower Upper
95 100
97 62.9 45.8 85.0
132 114.8 77.4 143.8
130 114.0 76.9 142.7





#42

Toluene

Concen: 154.019 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

ClientSampleId :

F7B26

Tgt Ion: 91 Resp: 95226

Ion Ratio Lower Upper

91 100

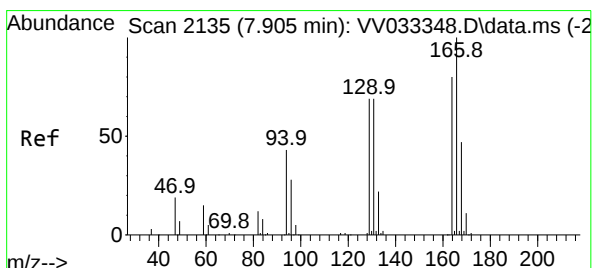
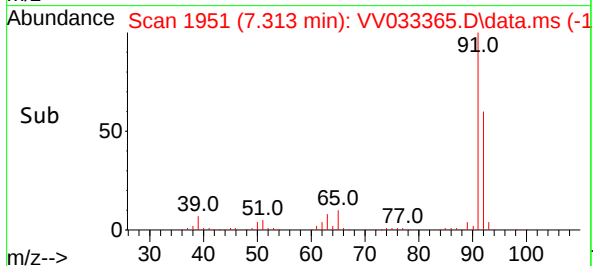
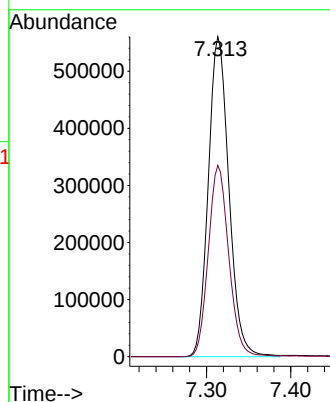
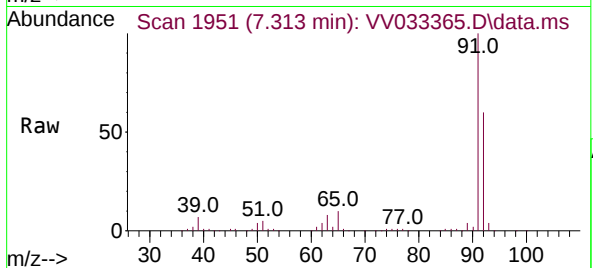
92 59.7 41.3 76.7

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Supervised By :Mahesh Dadoda 12/16/2023



#46

Tetrachloroethene

Concen: 41.270 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Tgt Ion:164 Resp: 58153

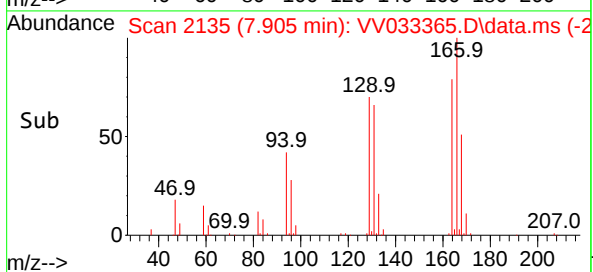
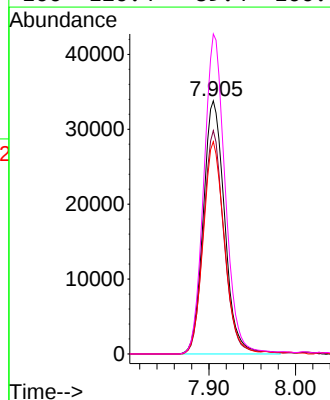
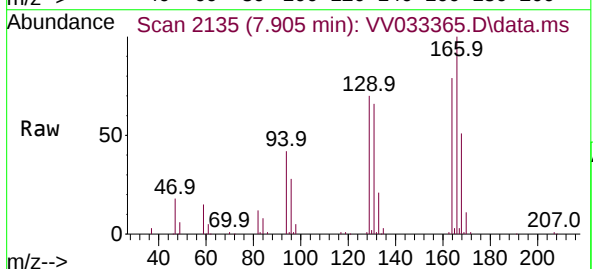
Ion Ratio Lower Upper

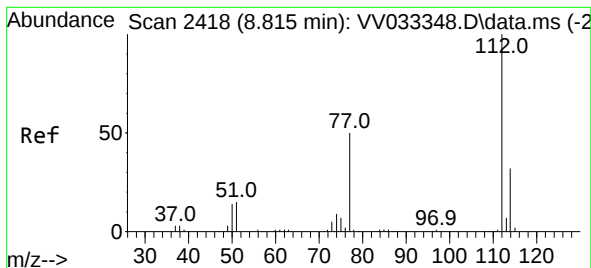
164 100

129 88.2 65.6 121.8

131 83.9 64.7 120.1

166 126.4 89.4 166.0





#51

Chlorobenzene

Concen: 440.777 ug/L

RT: 8.812 min Scan# 2418

Delta R.T. 0.000 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

ClientSampleId :

F7B26

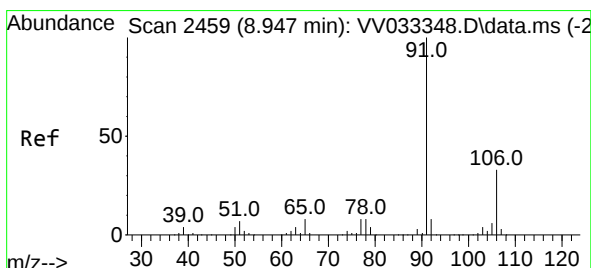
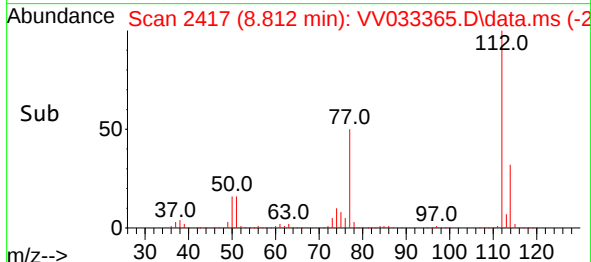
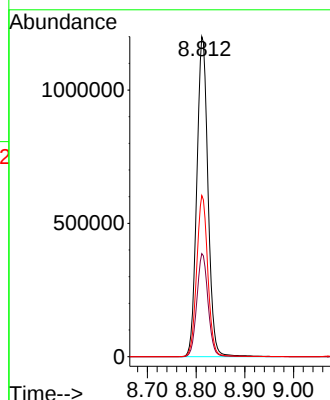
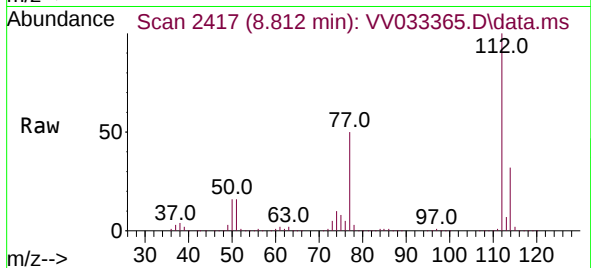
Tgt Ion:112 Resp: 191642

Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.9	42.5
77	50.4	42.6	64.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#52

Ethylbenzene

Concen: 1.401 ug/L

RT: 8.953 min Scan# 2461

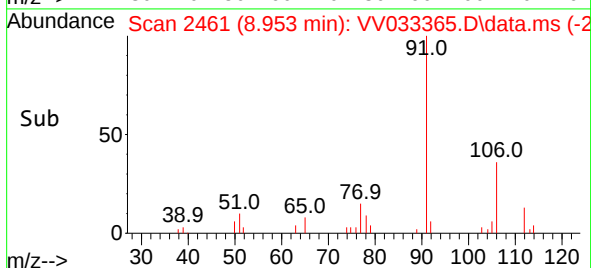
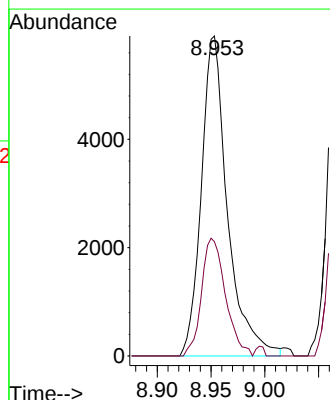
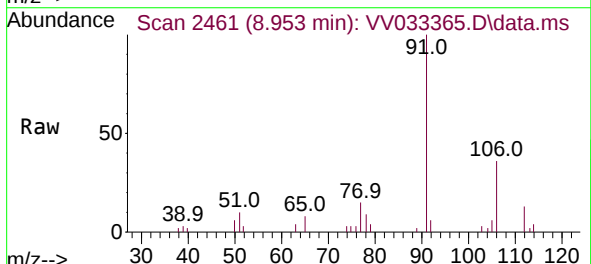
Delta R.T. 0.006 min

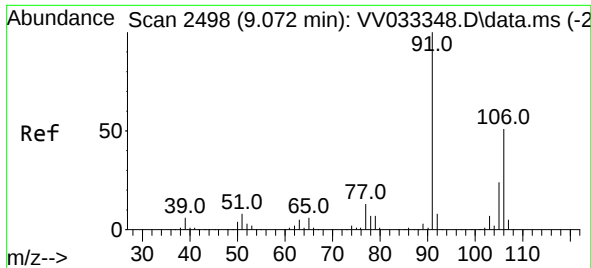
Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Tgt Ion: 91 Resp: 9967

Ion	Ratio	Lower	Upper
91	100		
106	35.7	22.6	42.0





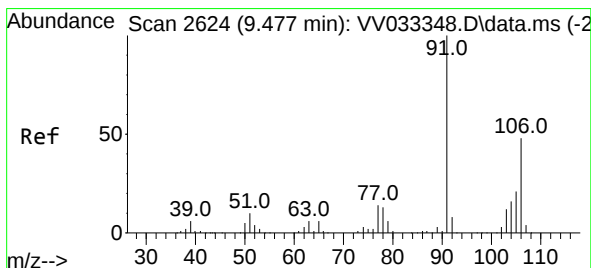
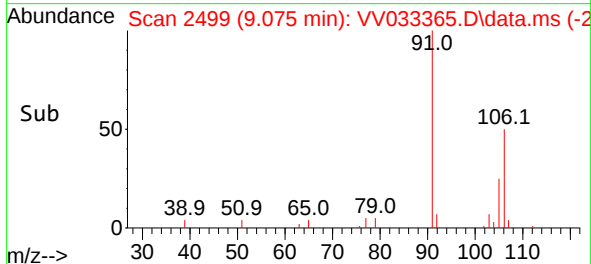
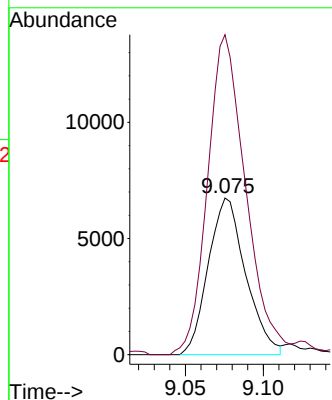
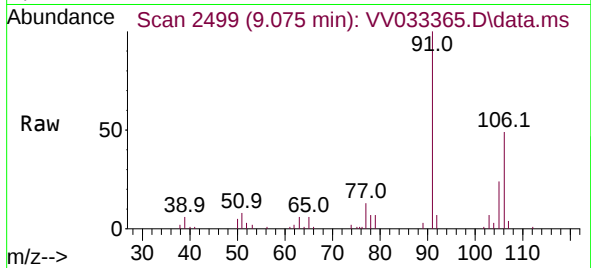
#53
m,p-Xylene
Concen: 3.995 ug/L
RT: 9.075 min Scan# 2498
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Instrument :
MSVOA_V
ClientSampleId :
F7B26

Tgt Ion:106 Resp: 11258
Ion Ratio Lower Upper
106 100
91 204.2 145.2 269.6

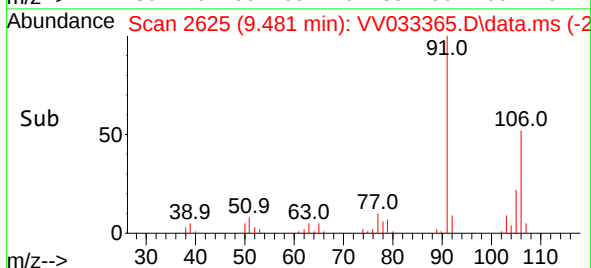
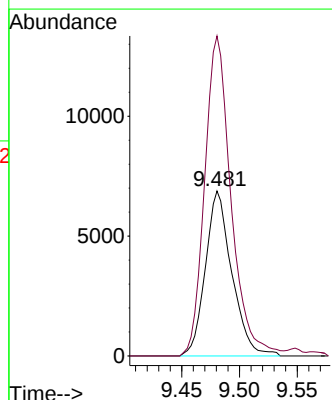
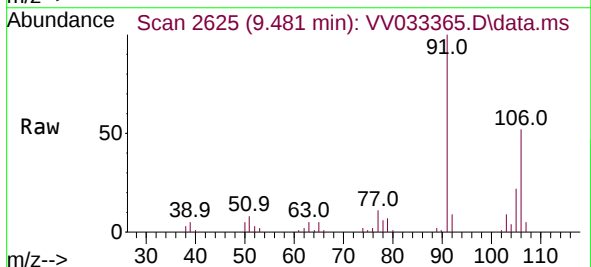
Manual Integrations
APPROVED

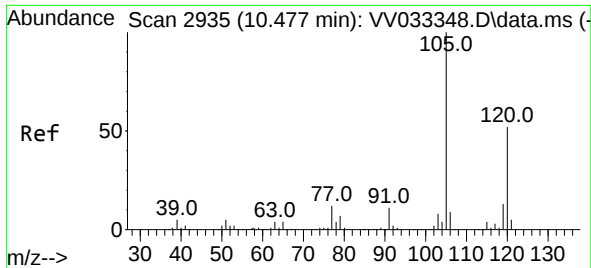
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#54
o-Xylene
Concen: 3.936 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion:106 Resp: 10947
Ion Ratio Lower Upper
106 100
91 193.9 147.8 274.6





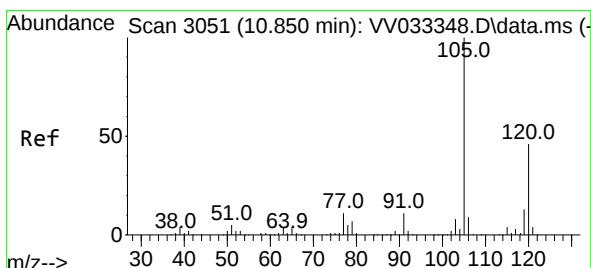
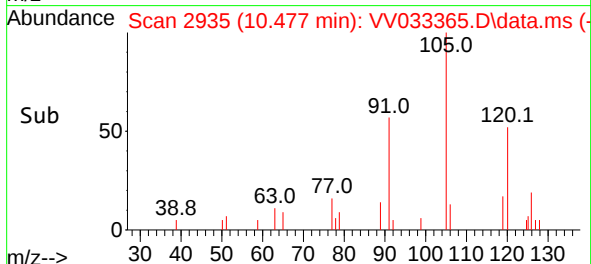
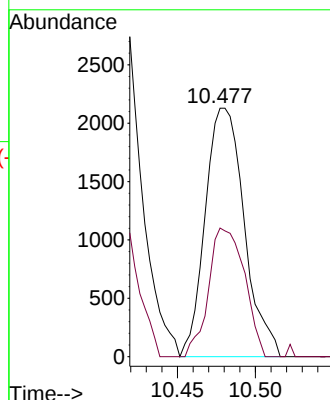
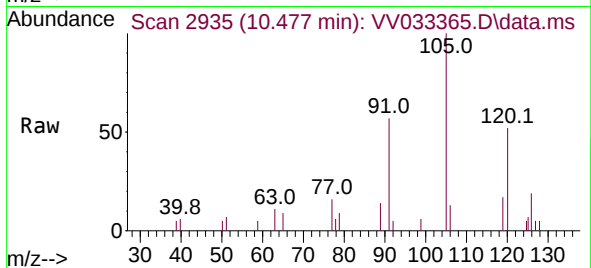
#62
1,3,5-Trimethylbenzene
Concen: 0.559 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.000 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Instrument :
MSVOA_V
ClientSampleId :
F7B26

Tgt Ion:105 Resp: 3708
Ion Ratio Lower Upper
105 100
120 47.6 39.7 59.5

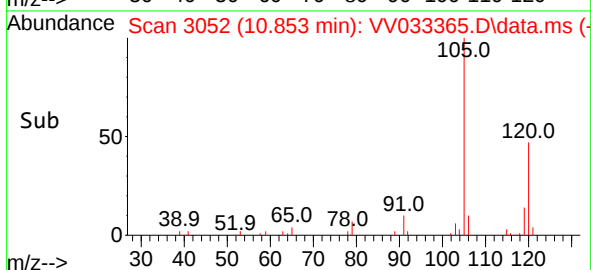
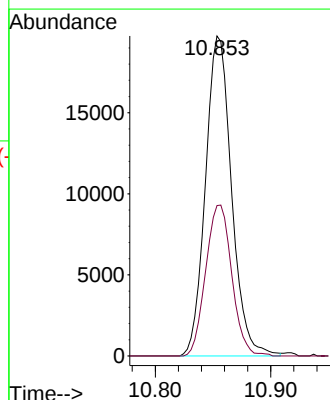
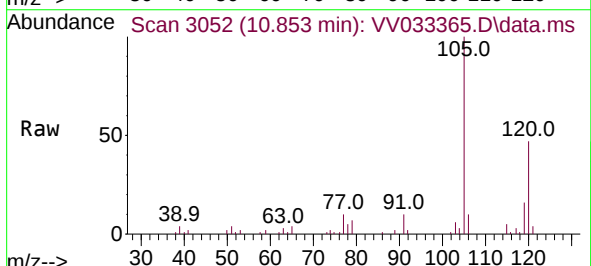
Manual Integrations
APPROVED

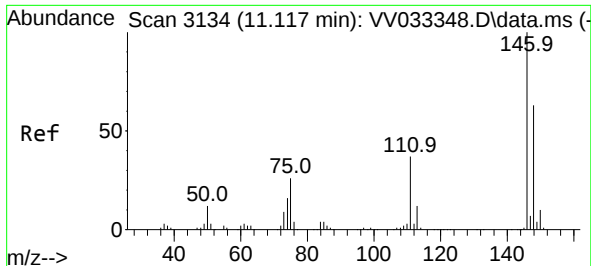
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#63
1,2,4-Trimethylbenzene
Concen: 4.489 ug/L
RT: 10.853 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

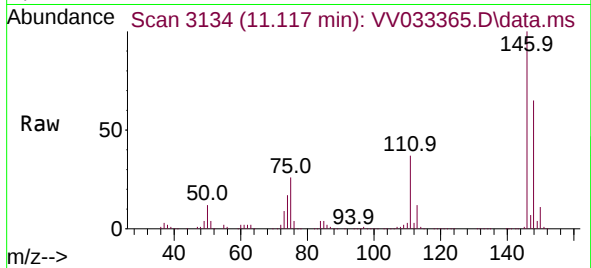
Tgt Ion:105 Resp: 30987
Ion Ratio Lower Upper
105 100
120 46.8 36.7 55.1





#64
1,3-Dichlorobenzene
Concen: 418.762 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.000 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

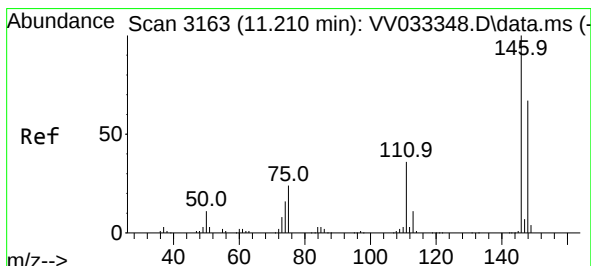
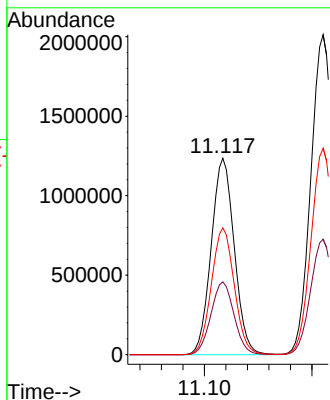
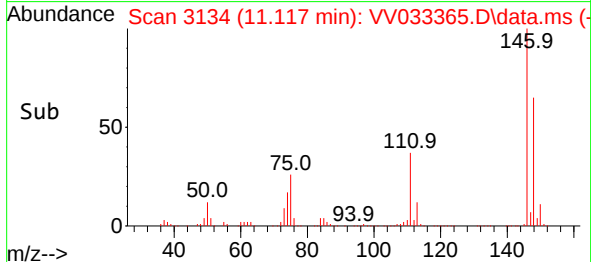
Instrument :
MSVOA_V
ClientSampleId :
F7B26



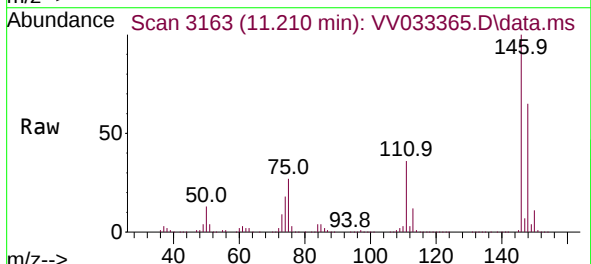
Tgt Ion:146 Resp: 1840680
Ion Ratio Lower Upper
146 100
111 37.0 26.2 48.6
148 64.6 44.5 82.7

Manual Integrations
APPROVED

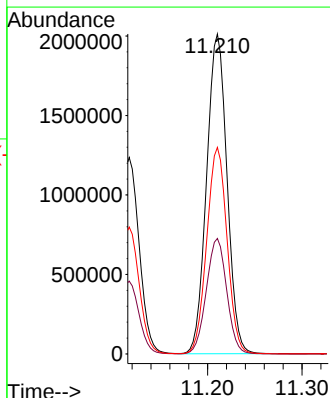
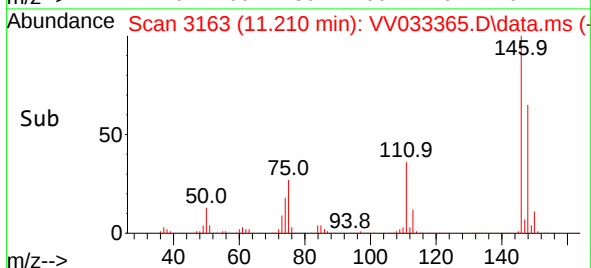
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023

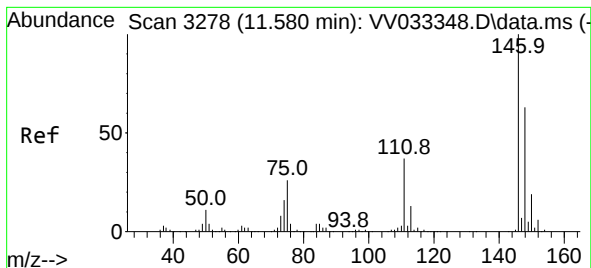


#65
1,4-Dichlorobenzene
Concen: 660.183 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11



Tgt Ion:146 Resp: 3014377
Ion Ratio Lower Upper
146 100
111 36.1 25.9 48.1
148 64.6 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 528.729 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

ClientSampleId :

F7B26

Tgt Ion:146 Resp: 227840

Ion Ratio Lower Upper

146 100

111 38.5 32.4 48.6

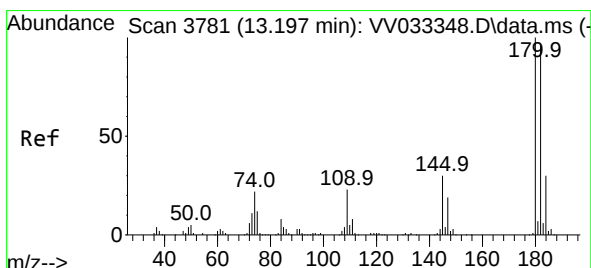
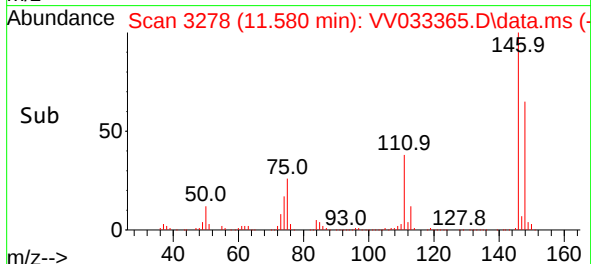
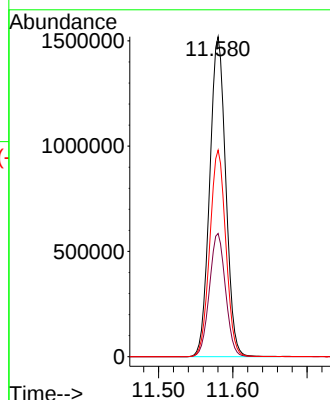
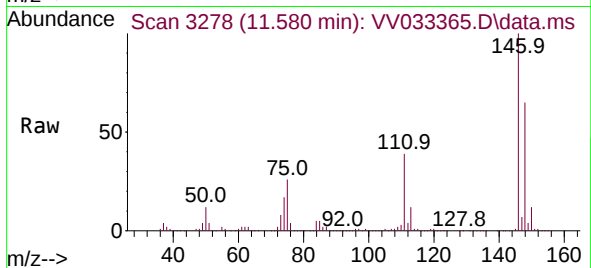
148 64.6 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023

Supervised By :Mahesh Dadoda 12/16/2023



#70

1,2,4-trichlorobenzene

Concen: 1.349 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.006 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Tgt Ion:180 Resp: 4388

Ion Ratio Lower Upper

180 100

182 87.8 76.3 114.5

145 31.0 23.4 35.0

