

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031224\
 Data File : VL041094.D
 Acq On : 12 Mar 2024 11:50
 Operator : SY/MD
 Sample : P1718-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/13/2024
 Supervised By :Mahesh Dadoda 03/13/2024

Quant Time: Mar 13 01:27:32 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031124AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Mar 13 01:22:02 2024

Response via : Initial Calibration

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

Internal Standards								
1) Bromochloromethane			5.188	49	1404745	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			6.651	114	3682819	10.000	ppbv	0.00
55) Chlorobenzene-d5			11.471	117	3322564	10.000	ppbv	0.00
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			13.783	95	2761936	10.632	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 106.300%		
Target Compounds								Qvalue
2) Dichlorodifluoromethane			2.719	85	26243m	0.098	ppbv	
5) Vinyl Chloride			2.906	62	2956	0.037	ppbv	92
9) Propene			2.684	41	54583	0.794	ppbv	84
10) Heptane			7.581	43	75788	0.461	ppbv	96
15) Acetone			3.468	43	435747	2.723	ppbv	97
20) Methylene Chloride			3.931	84	46151	0.740	ppbv	94
25) Ethyl Acetate			5.211	43	288557	1.001	ppbv #	77
26) Hexane			5.211	57	403977	3.135	ppbv #	42
32) 1,1,1-Trichloroethane			5.989	97	9867m	0.050	ppbv	
34) 2-Butanone			4.796	43	75162	0.412	ppbv #	89
35) Carbon Tetrachloride			6.494	117	7462m	0.035	ppbv	
36) Benzene			6.368	78	19173	0.070	ppbv #	91
38) Trichloroethene			7.285	130	3778m	0.038	ppbv	
51) 2-Hexanone			9.568	43	38188m	0.194	ppbv	
52) Tetrachloroethene			10.616	164	7409m	0.087	ppbv	
53) Toluene			9.227	91	92882	0.314	ppbv	99
58) Ethyl Benzene			12.095	91	48868m	0.126	ppbv	
59) m/p-Xylene			12.352	91	135880m	0.398	ppbv	
60) o-Xylene			13.063	91	67178m	0.207	ppbv	
62) Isopropylbenzene			14.040	105	35073	0.073	ppbv	99
70) n-Butylbenzene			17.899	91	52626m	0.104	ppbv	
72) 4-Ethyltoluene			15.204	105	39648	0.111	ppbv #	72
73) 1,3,5-Trimethylbenzene			15.355	105	47199m	0.149	ppbv	
74) 1,2,4-Trimethylbenzene			16.117	105	142934m	0.396	ppbv	
78) Hexachloro-1,3-Butadiene			22.648	225	15704m	0.111	ppbv	
80) Naphthalene,2-methyl-			24.390	142	17794	0.531	ppbv #	50
81) 1,2,4-Trichlorobenzene			21.149	180	17839m	0.148	ppbv	

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

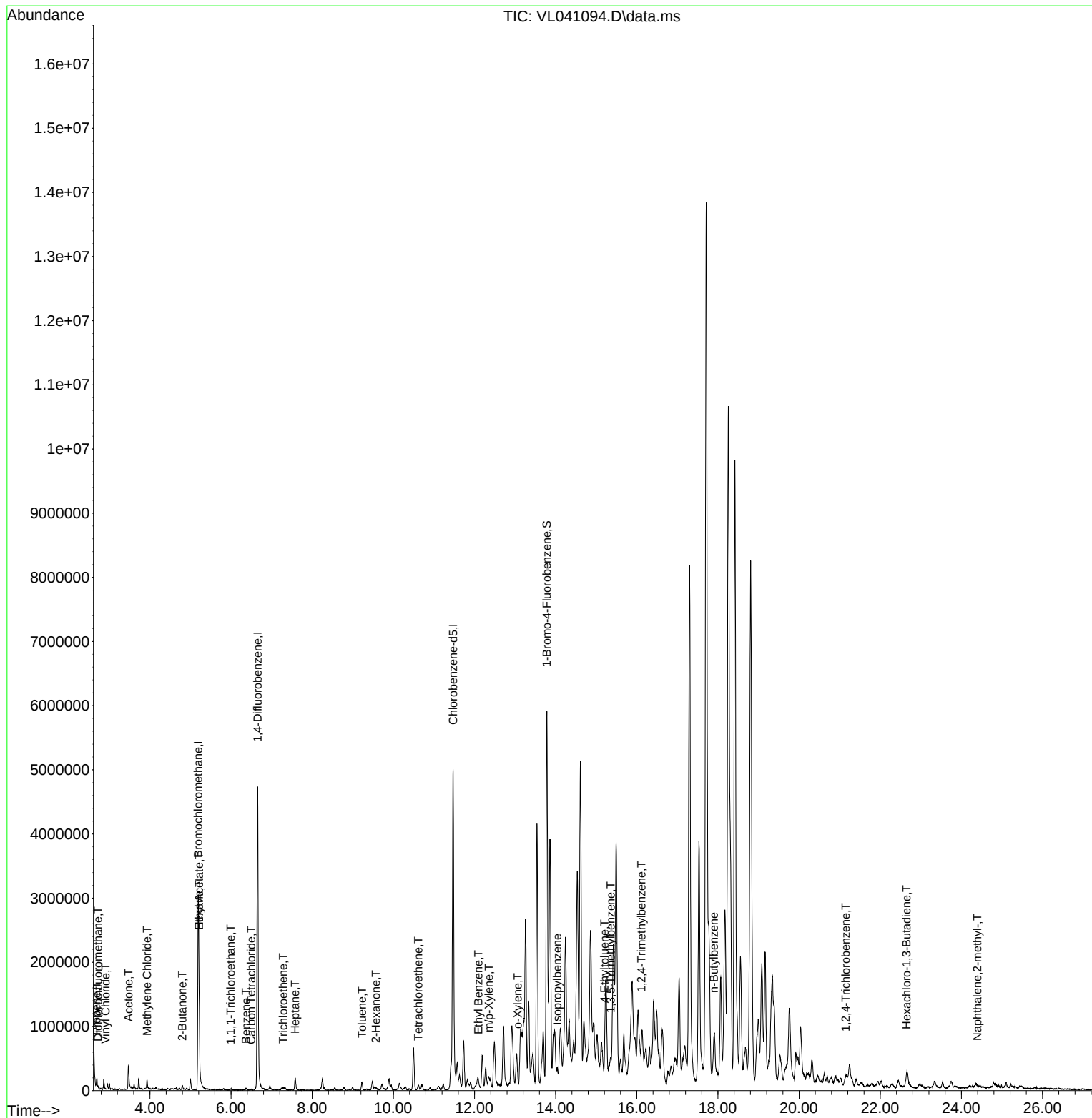
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031224\
Data File : VL041094.D
Acq On : 12 Mar 2024 11:50
Operator : SY/MD
Sample : P1718-01 4X
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ALS Vial : 1 Sample Multiplier: 1

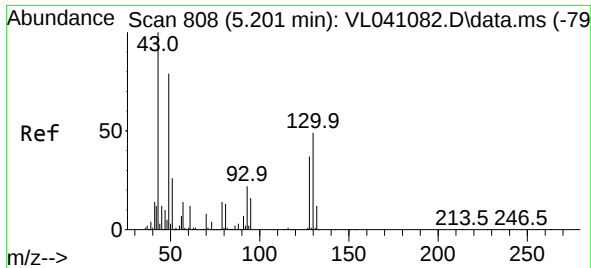
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Mar 13 01:27:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Mar 13 01:22:02 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/13/2024
Supervised By : Mahesh Dadoda 03/13/2024





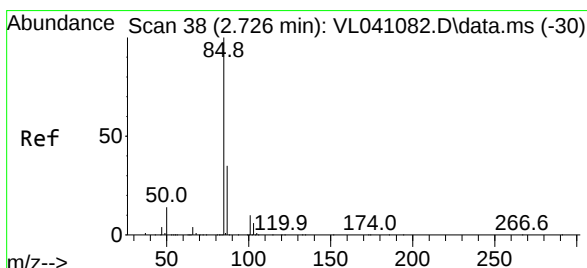
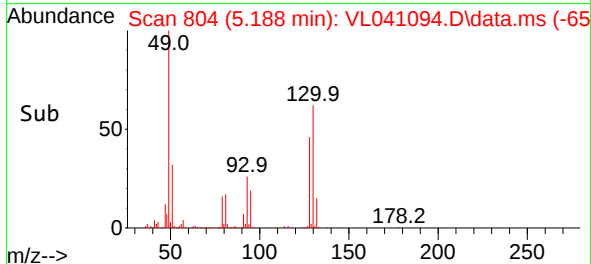
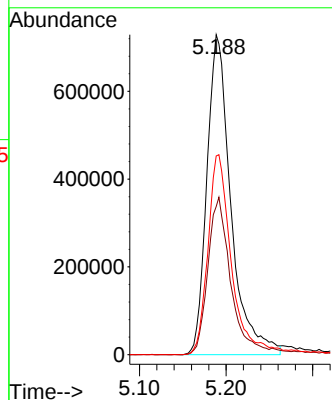
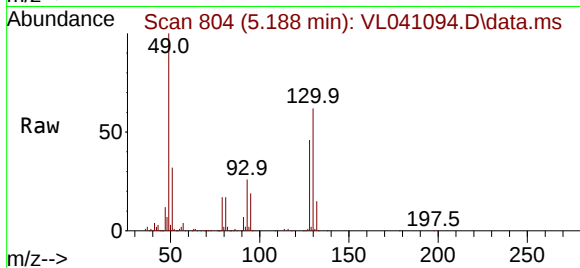
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 140474
Ion Ratio Lower Upper
49 100
128 49.3 23.8 71.5
130 63.9 30.3 90.9

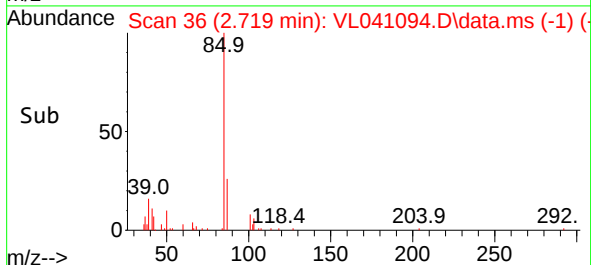
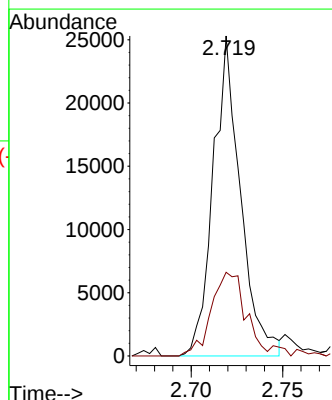
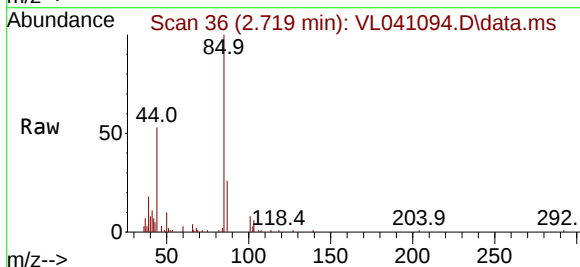
Manual Integrations
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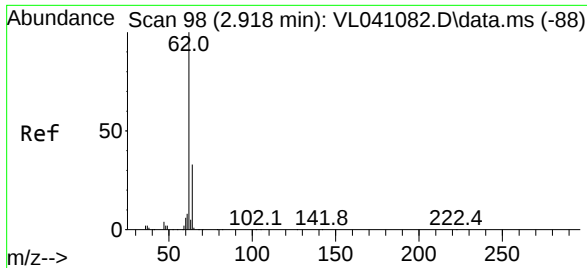
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#2
Dichlorodifluoromethane
Concen: 0.098 ppbv m
RT: 2.719 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Tgt Ion: 85 Resp: 26243
Ion Ratio Lower Upper
85 100
87 26.2 28.1 42.1#





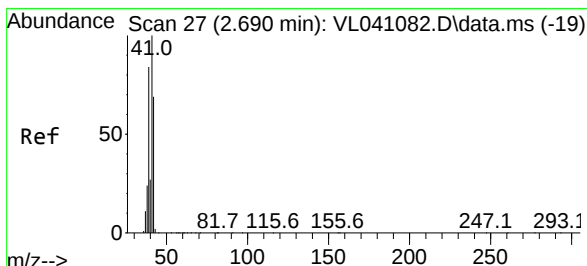
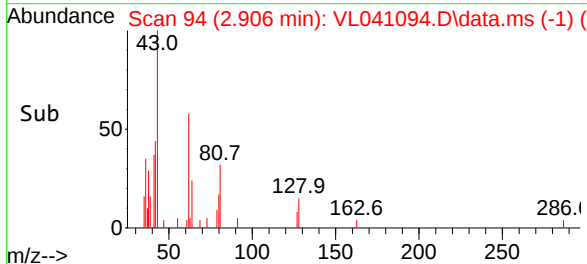
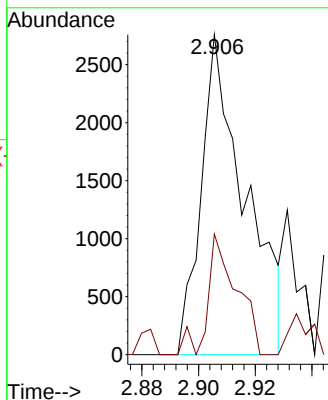
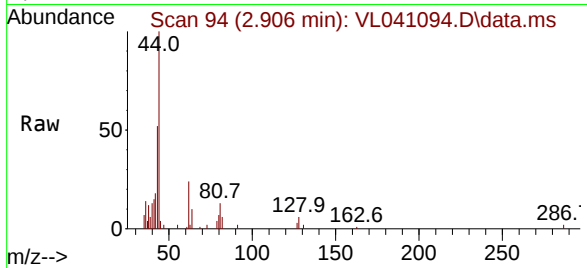
#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 2.906 min Scan# 94
 Delta R.T. -0.007 min
 Lab File: VL041094.D
 Acq: 12 Mar 2024 11:50

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 62 Resp: 2950
 Ion Ratio Lower Upper
 62 100
 64 37.7 26.5 39.7

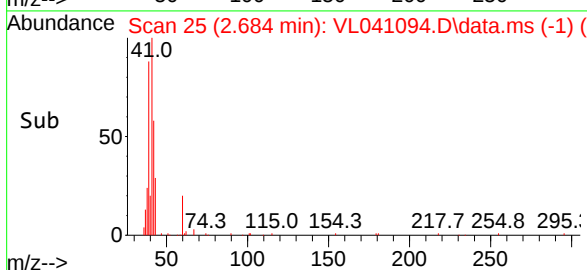
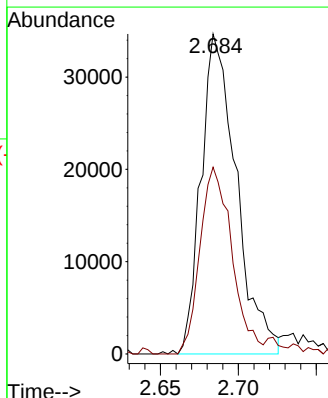
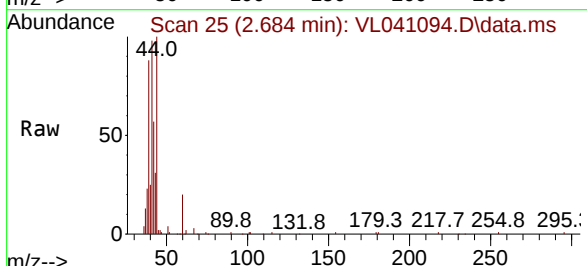
Manual Integrations
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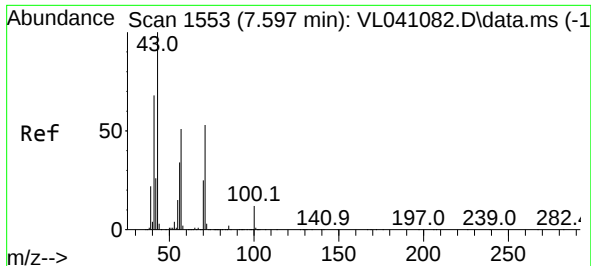
Reviewed By :Semsettin Yesilyurt 03/13/2024
 Supervised By :Mahesh Dadoda 03/13/2024



#9
 Propene
 Concen: 0.794 ppbv
 RT: 2.684 min Scan# 25
 Delta R.T. -0.000 min
 Lab File: VL041094.D
 Acq: 12 Mar 2024 11:50

Tgt Ion: 41 Resp: 54583
 Ion Ratio Lower Upper
 41 100
 42 56.7 55.9 83.9





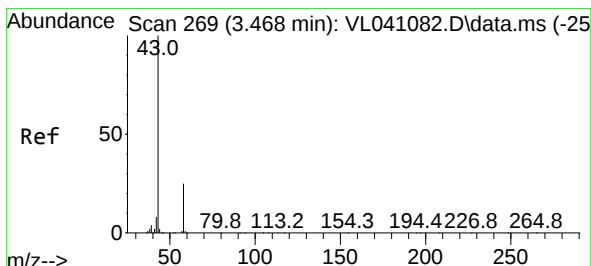
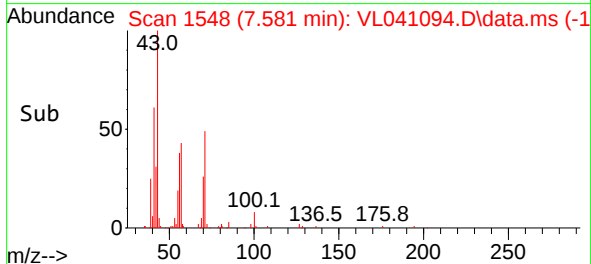
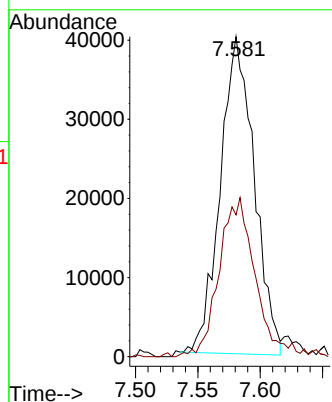
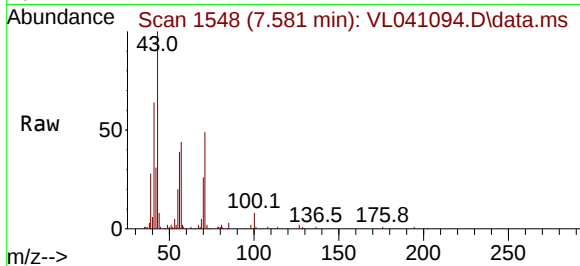
#10
Heptane
Concen: 0.461 ppbv
RT: 7.581 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 7578
Ion Ratio Lower Upper
43 100
57 54.3 41.0 61.6

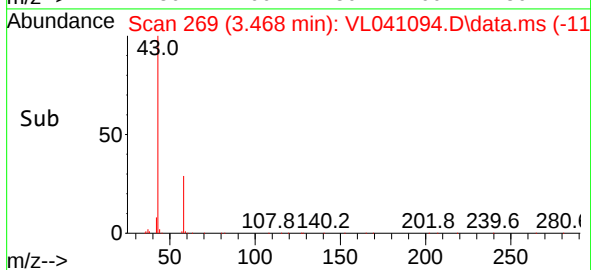
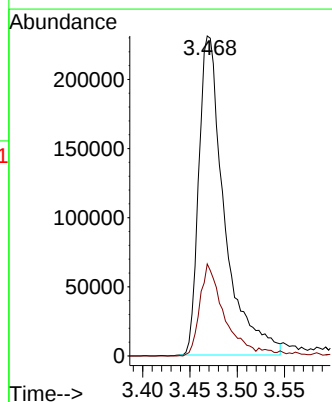
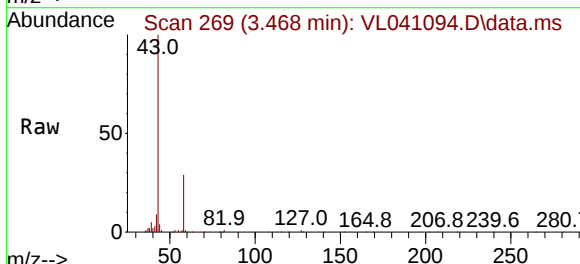
Manual Integrations
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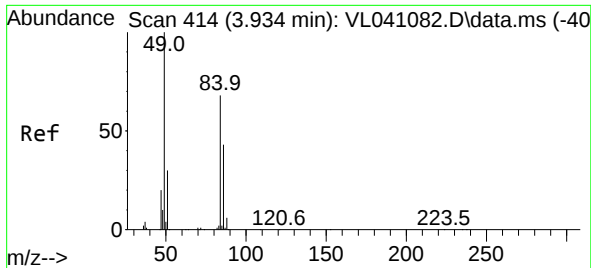
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#15
Acetone
Concen: 2.723 ppbv
RT: 3.468 min Scan# 269
Delta R.T. 0.006 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

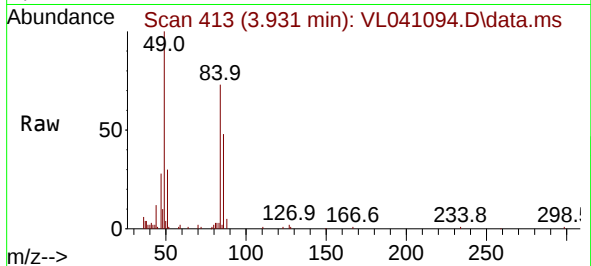
Tgt Ion: 43 Resp: 435747
Ion Ratio Lower Upper
43 100
58 28.9 21.7 32.5





#20
Methylene Chloride
Concen: 0.740 ppbv
RT: 3.931 min Scan# 414
Delta R.T. 0.003 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

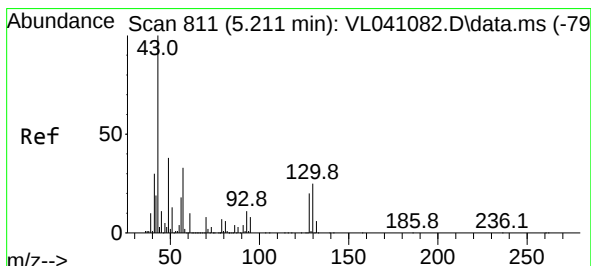
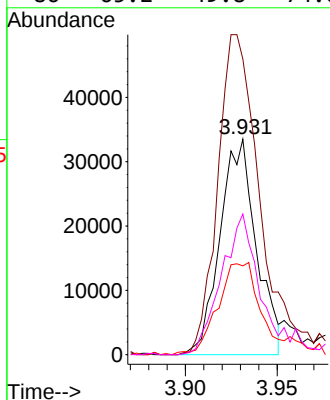
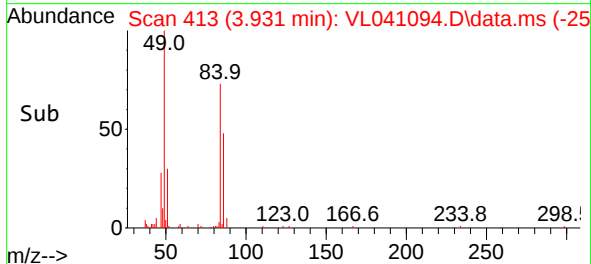
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 4615
Ion Ratio Lower Upper
84 100
49 137.2 117.0 175.6
51 41.5 34.9 52.3
86 65.2 49.8 74.6

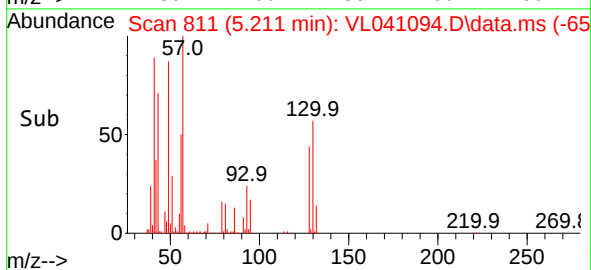
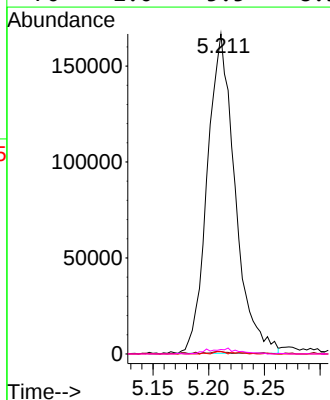
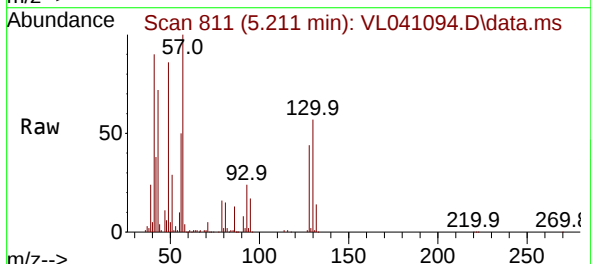
Manual Integrations
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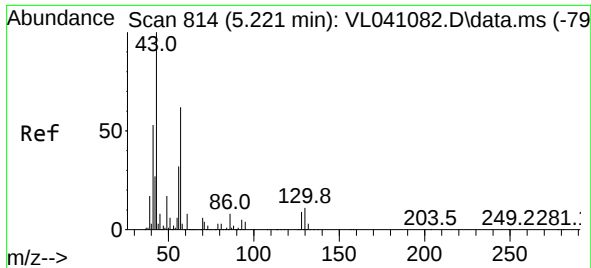
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#25
Ethyl Acetate
Concen: 1.001 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

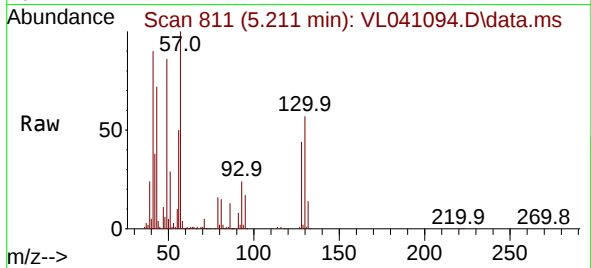
Tgt Ion: 43 Resp: 288557
Ion Ratio Lower Upper
43 100
45 1.1 8.2 12.2#
61 0.5 8.2 12.2#
70 2.0 5.5 8.3#





#26
Hexane
Concen: 3.135 ppbv
RT: 5.211 min Scan# 814
Delta R.T. -0.000 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

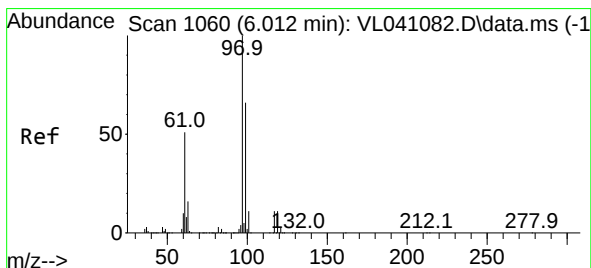
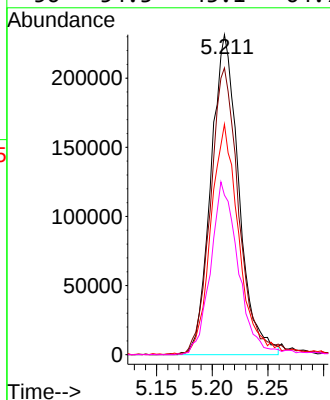
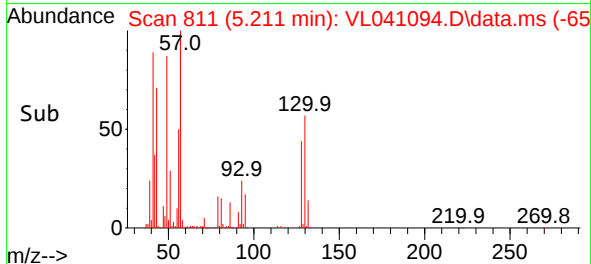
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 403972
Ion Ratio Lower Upper
57 100
41 93.3 73.8 110.6
43 73.8 184.2 276.2
56 54.3 43.1 64.7

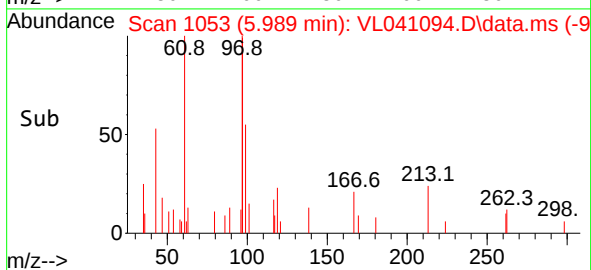
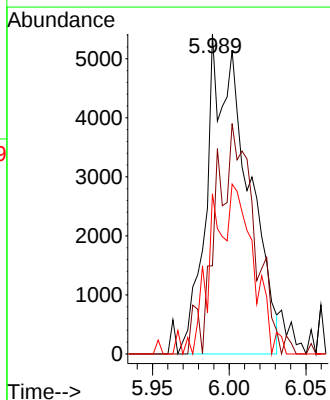
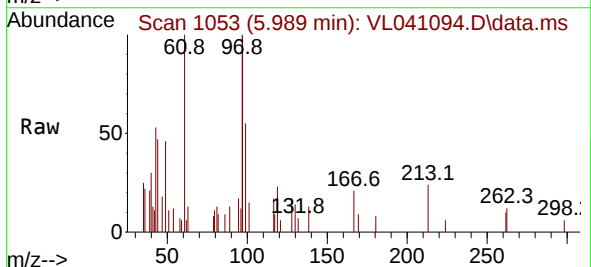
Manual Integrations
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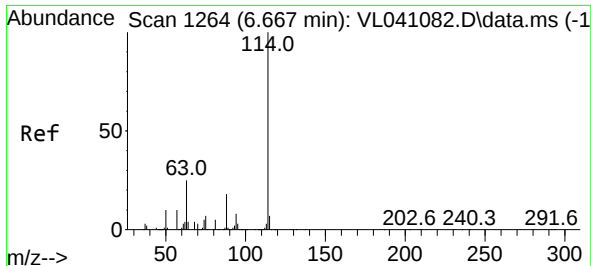
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#32
1,1,1-Trichloroethane
Concen: 0.050 ppbv m
RT: 5.989 min Scan# 1053
Delta R.T. -0.016 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Tgt Ion: 97 Resp: 9867
Ion Ratio Lower Upper
97 100
99 69.7 52.4 78.6
61 55.2 40.4 60.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 3682819

Ion Ratio Lower Upper

114 100

63 25.3 21.0 31.6

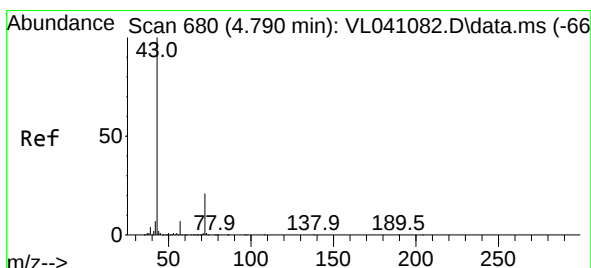
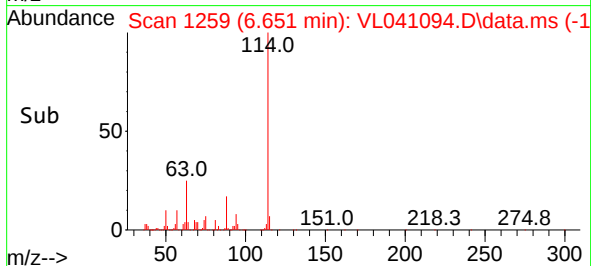
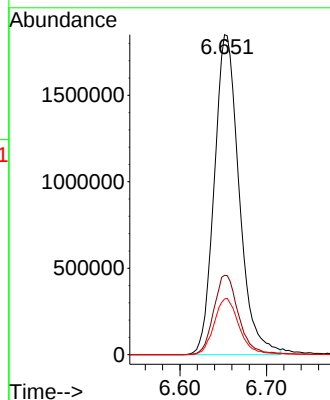
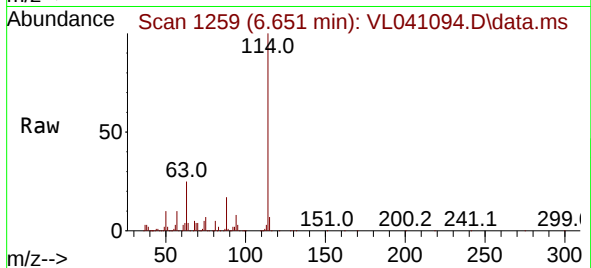
88 17.9 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/13/2024

Supervised By :Mahesh Dadoda 03/13/2024



#34

2-Butanone

Concen: 0.412 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.013 min

Lab File: VL041094.D

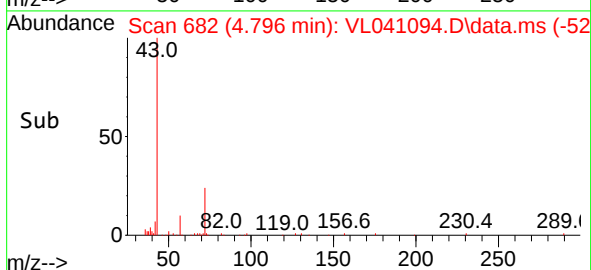
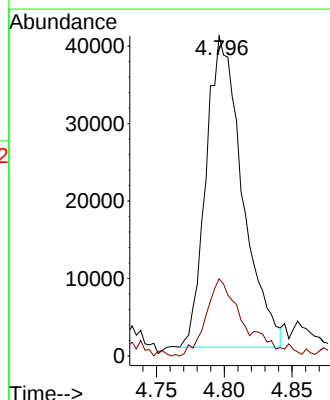
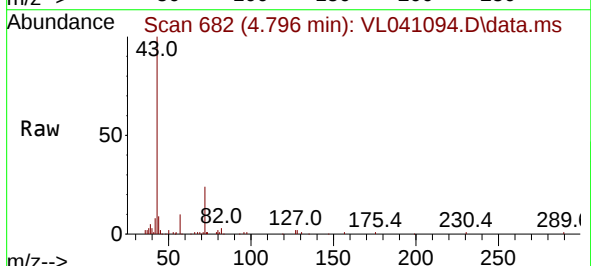
Acq: 12 Mar 2024 11:50

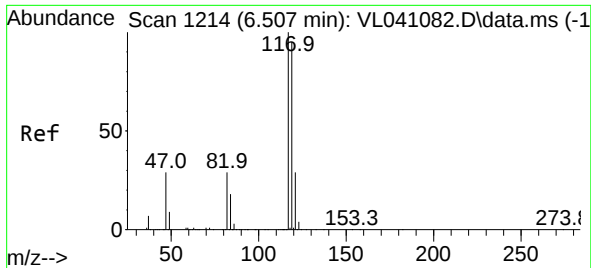
Tgt Ion: 43 Resp: 75162

Ion Ratio Lower Upper

43 100

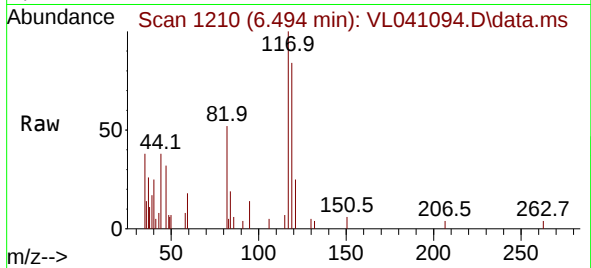
72 27.0 17.4 26.0#





#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 6.494 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

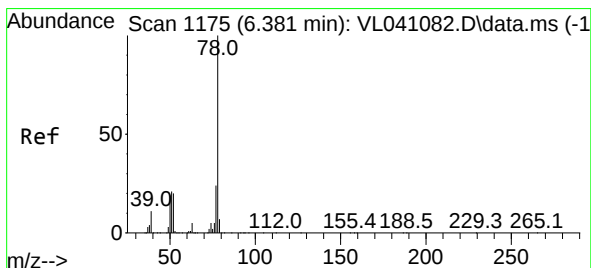
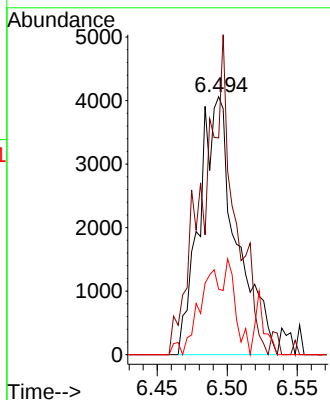
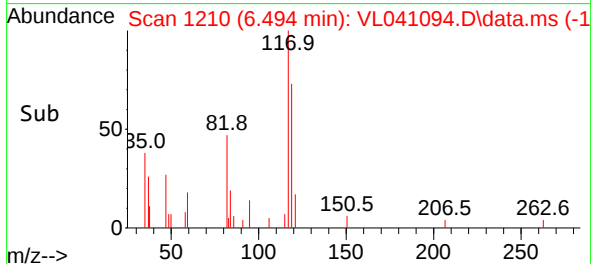
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 7462
Ion Ratio Lower Upper
117 100
119 84.0 75.6 113.4
121 25.4 23.4 35.2

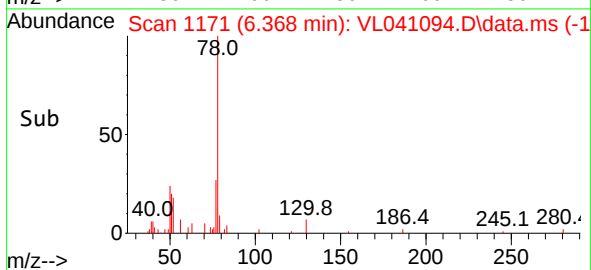
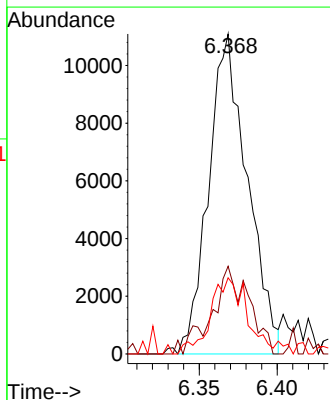
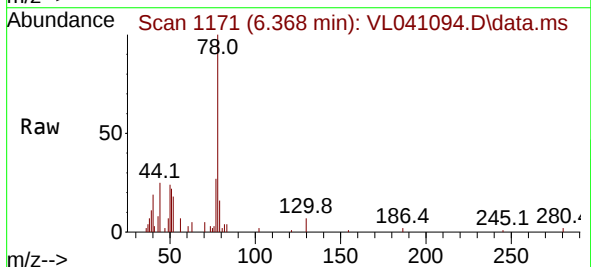
Manual Integrations
APPROVED

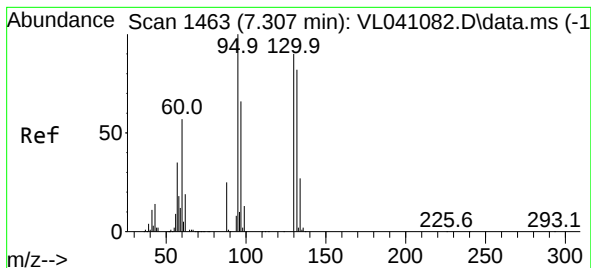
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#36
Benzene
Concen: 0.070 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Tgt Ion: 78 Resp: 19173
Ion Ratio Lower Upper
78 100
77 27.4 18.8 28.2
50 23.8 15.5 23.3#





#38

Trichloroethene

Concen: 0.038 ppbv m

RT: 7.285 min Scan# 1463

Delta R.T. -0.010 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

Instrument :

MSVOA_L

ClientSampleId :

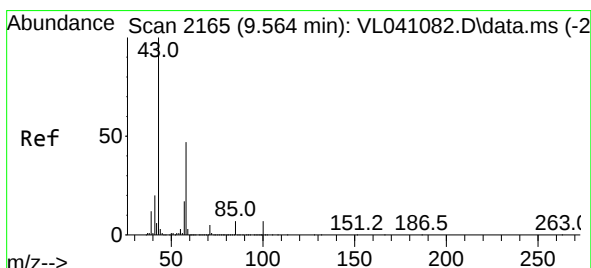
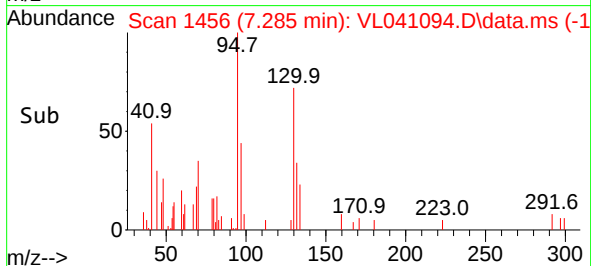
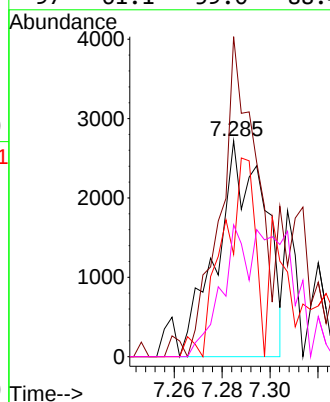
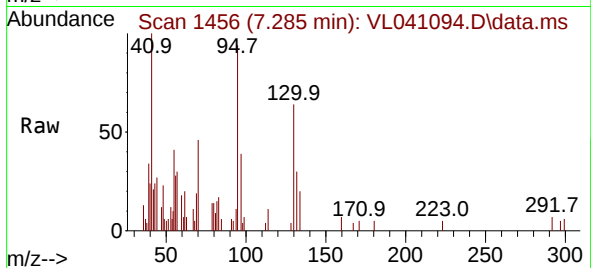
SV1

Tgt Ion:130	Resp:	3778
Ion Ratio	Lower	Upper
130	100	
95	148.2	88.8 133.2
132	47.5	73.0 109.4
97	61.1	59.0 88.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#51

2-Hexanone

Concen: 0.194 ppbv m

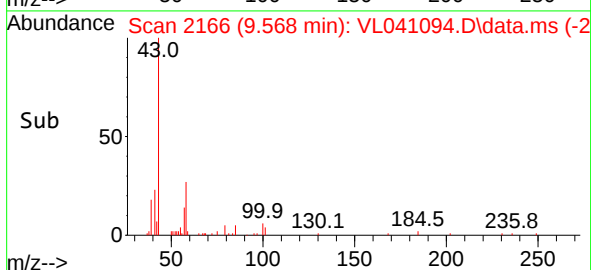
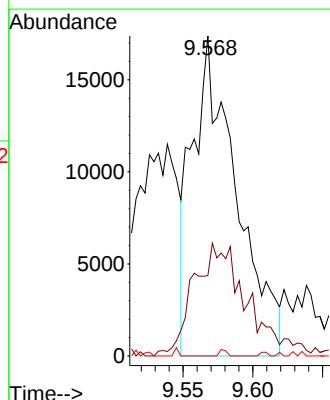
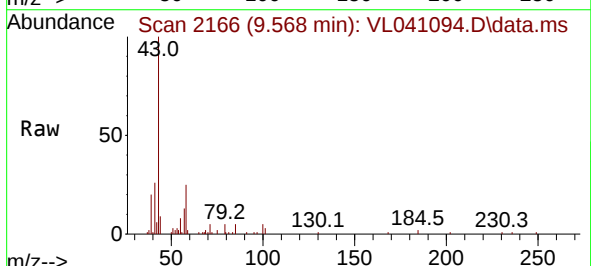
RT: 9.568 min Scan# 2166

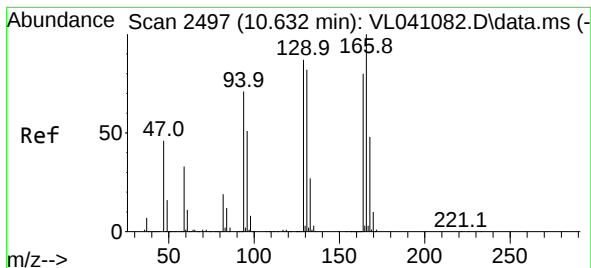
Delta R.T. 0.013 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

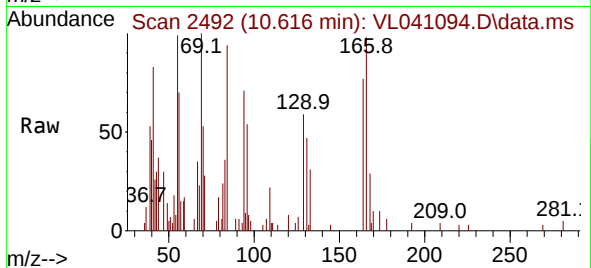
Tgt Ion: 43	Resp:	38188
Ion Ratio	Lower	Upper
43	100	
58	0.0	37.4 56.2#
98	0.0	0.4 0.6#





#52
Tetrachloroethene
Concen: 0.087 ppbv m
RT: 10.616 min Scan# 2497
Delta R.T. -0.007 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

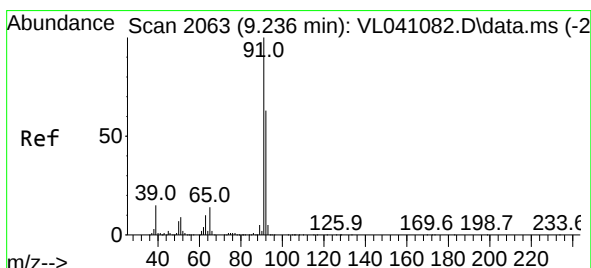
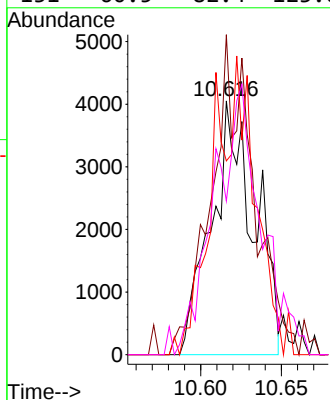
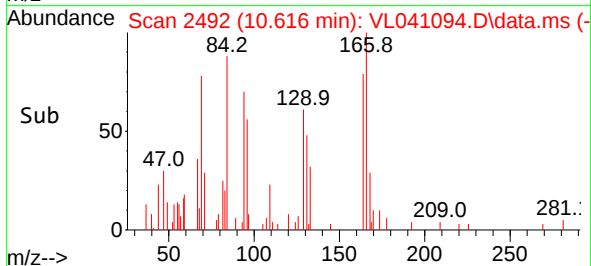
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 7409
Ion Ratio Lower Upper
164 100
166 126.1 100.6 150.8
129 76.3 87.2 130.8
131 60.5 82.4 123.6#

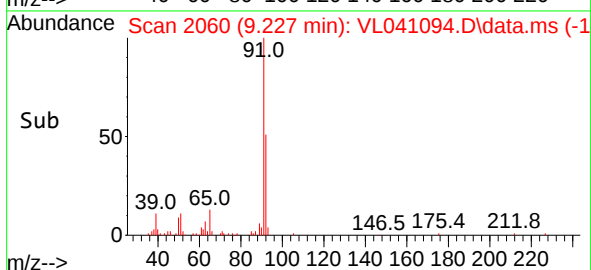
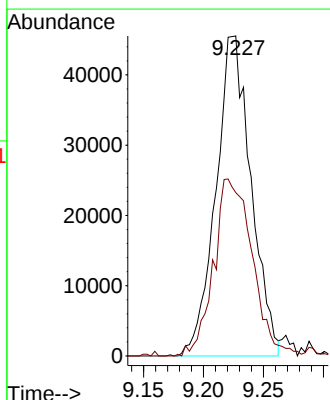
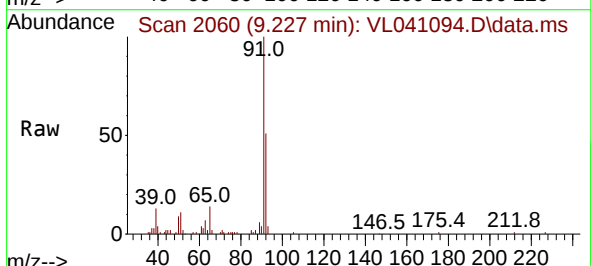
Manual Integrations
APPROVED

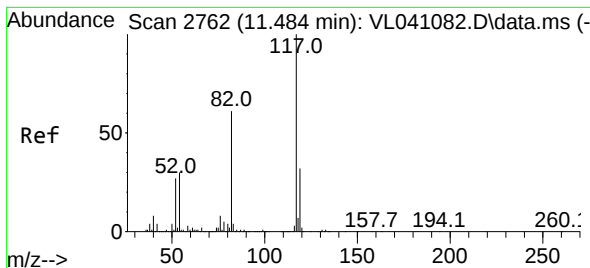
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#53
Toluene
Concen: 0.314 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. 0.003 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

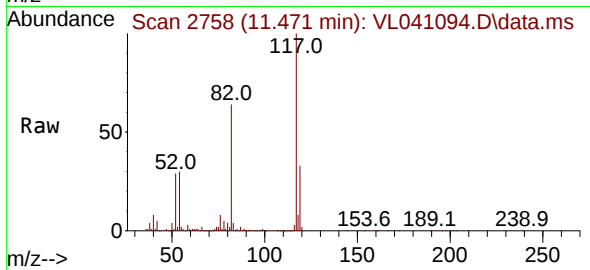
Tgt Ion: 91 Resp: 92882
Ion Ratio Lower Upper
91 100
92 61.7 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

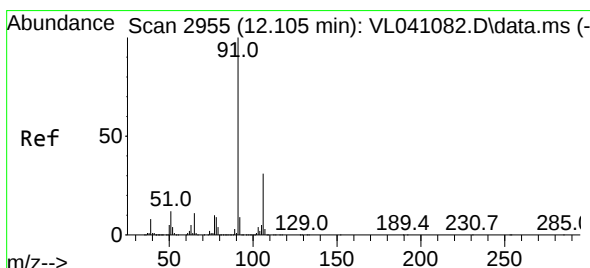
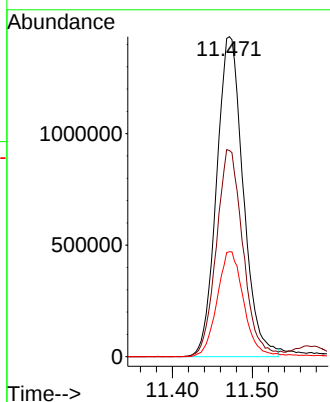
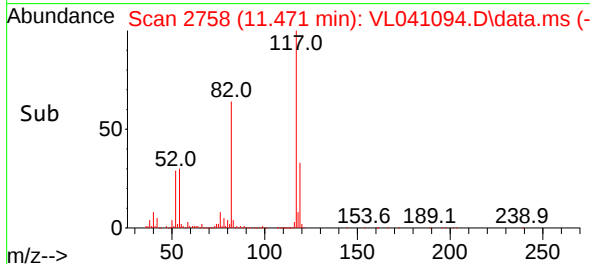
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 332256
Ion Ratio Lower Upper
117 100
82 64.6 51.4 77.2
119 33.5 23.7 35.5

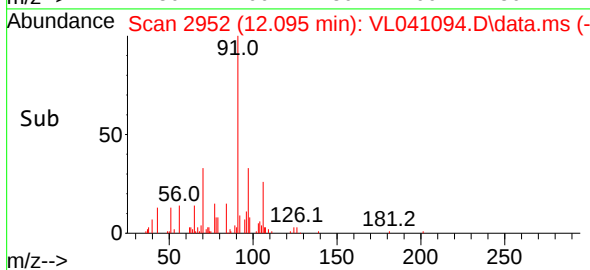
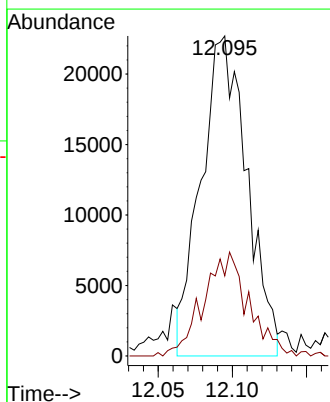
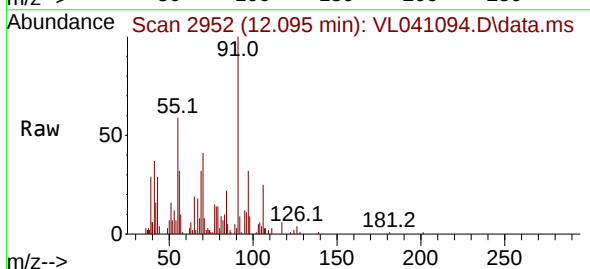
Manual Integrations
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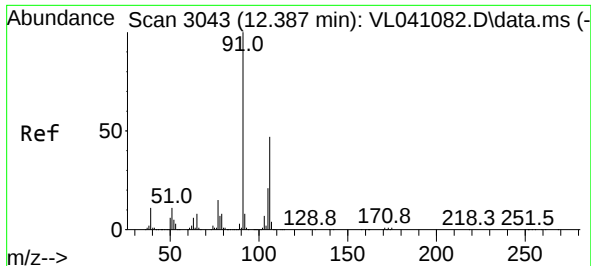
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#58
Ethyl Benzene
Concen: 0.126 ppbv m
RT: 12.095 min Scan# 2952
Delta R.T. -0.000 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Tgt Ion: 91 Resp: 48868
Ion Ratio Lower Upper
91 100
106 25.1 24.6 36.8





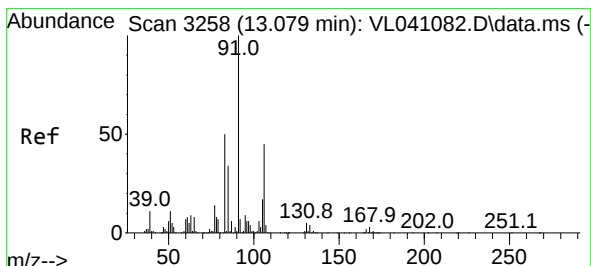
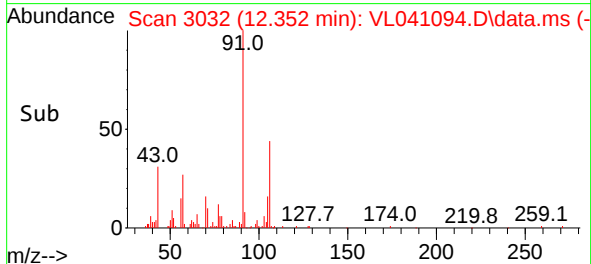
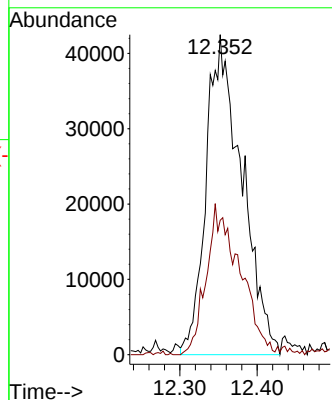
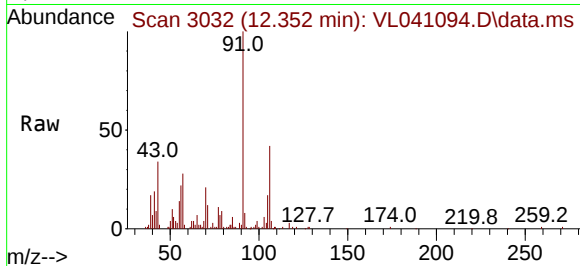
#59
m/p-Xylene
Concen: 0.398 ppbv m
RT: 12.352 min Scan# 3043
Delta R.T. -0.029 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 135880
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

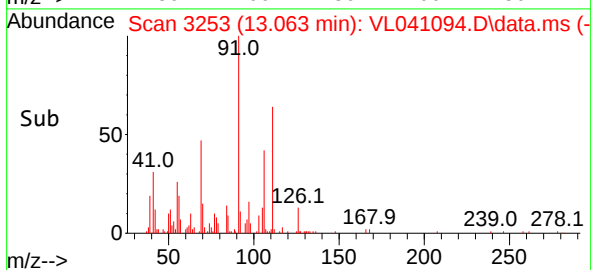
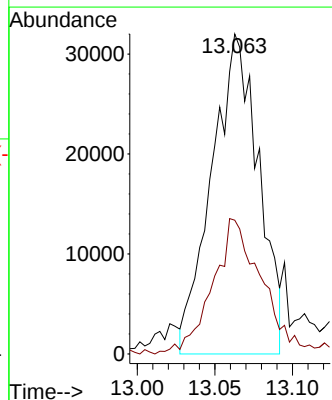
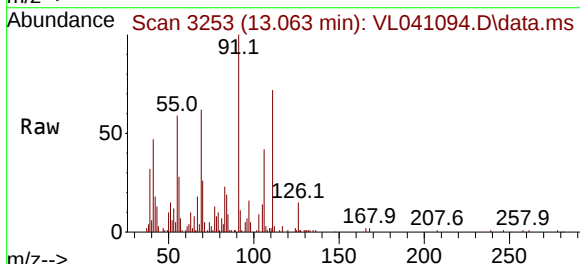
Manual Integrations
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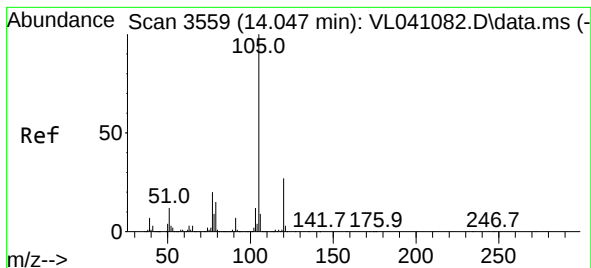
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#60
o-Xylene
Concen: 0.207 ppbv m
RT: 13.063 min Scan# 3253
Delta R.T. -0.003 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Tgt Ion: 91 Resp: 67178
Ion Ratio Lower Upper
91 100
106 46.8 22.4 67.3





#62

Isopropylbenzene

Concen: 0.073 ppbv

RT: 14.040 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 3507

Ion Ratio Lower Upper

105 100

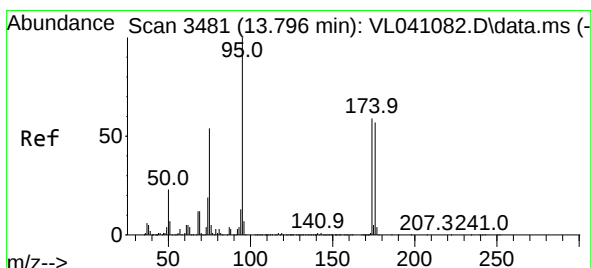
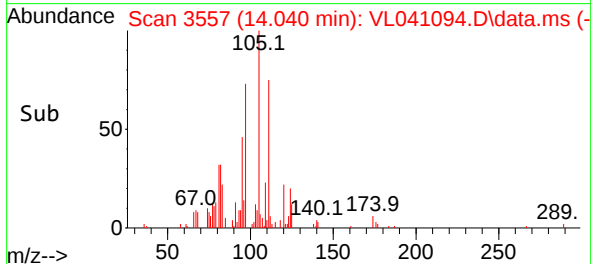
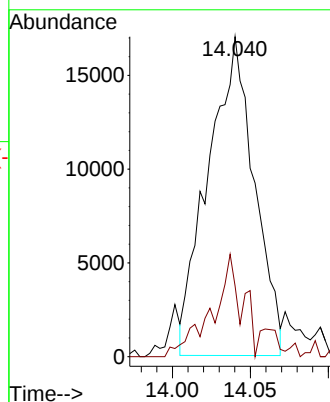
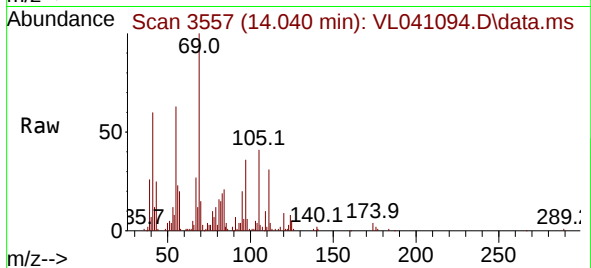
120 24.8 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/13/2024

Supervised By :Mahesh Dadoda 03/13/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 10.632 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. -0.000 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

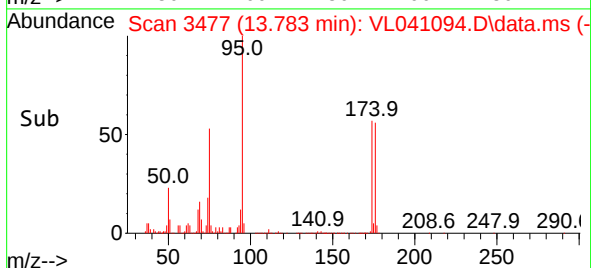
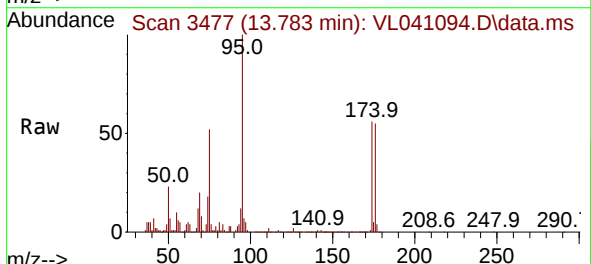
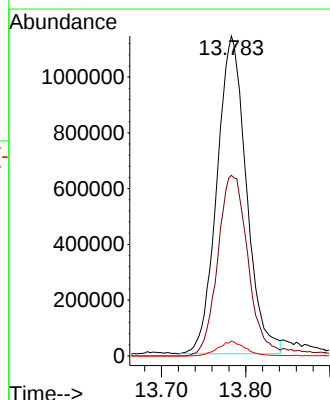
Tgt Ion: 95 Resp: 2761936

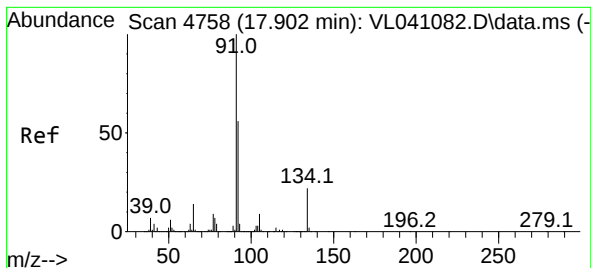
Ion Ratio Lower Upper

95 100

174 61.4 47.8 71.8

175 4.4 3.5 5.3





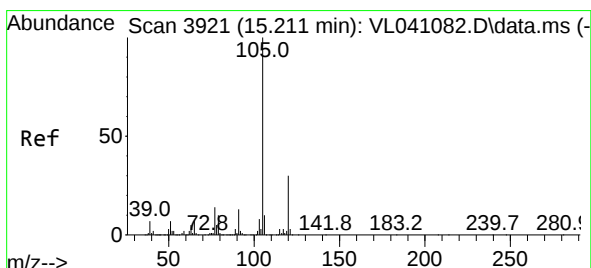
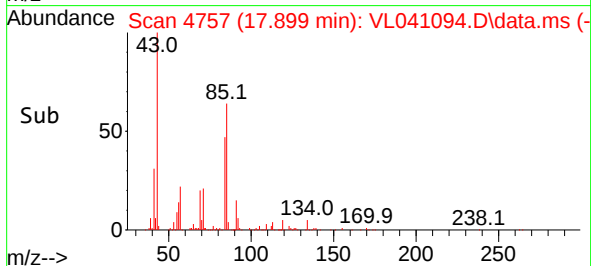
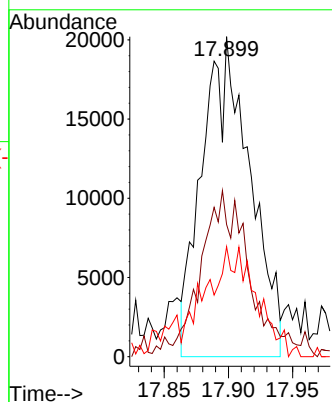
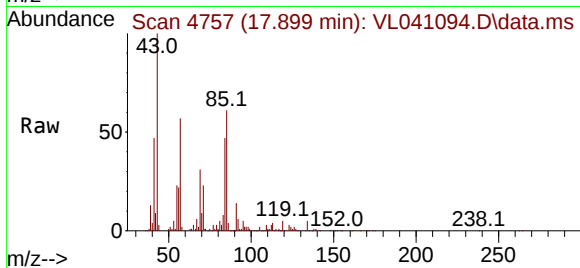
#70
n-Butylbenzene
Concen: 0.104 ppbv m
RT: 17.899 min Scan# 4758
Delta R.T. 0.006 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 52620
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 0.0 17.4 26.0#

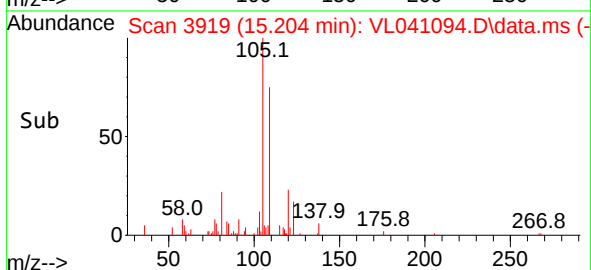
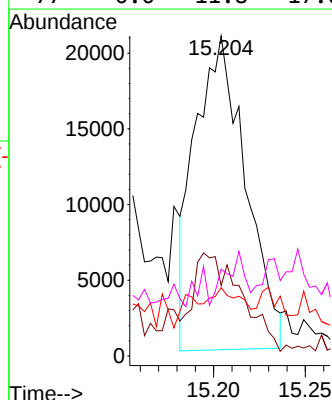
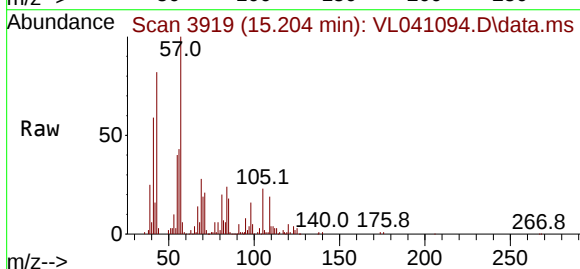
Manual Integrations
APPROVED

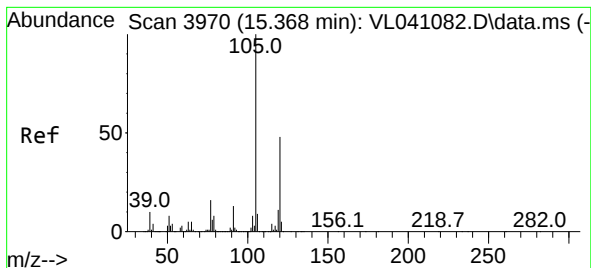
Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 15.204 min Scan# 3919
Delta R.T. 0.006 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Tgt Ion:105 Resp: 39648
Ion Ratio Lower Upper
105 100
120 41.6 23.8 35.8#
91 0.0 10.9 16.3#
77 0.0 11.8 17.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.149 ppbv m

RT: 15.355 min Scan# 3970

Delta R.T. -0.003 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 47199

Ion Ratio Lower Upper

105 100

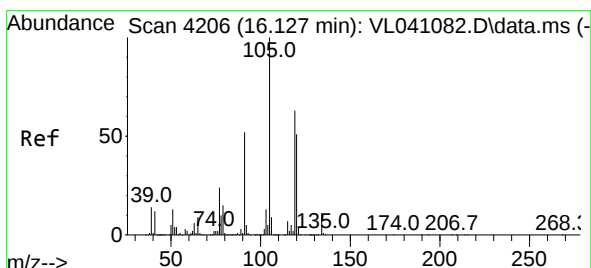
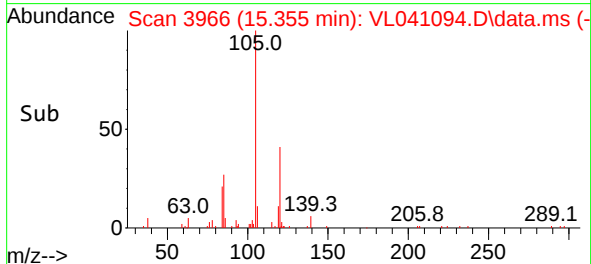
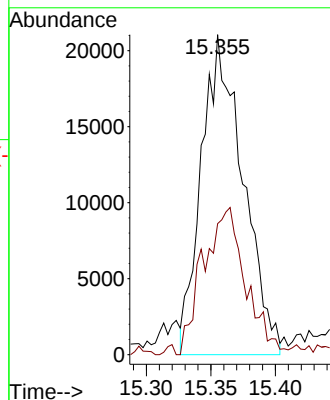
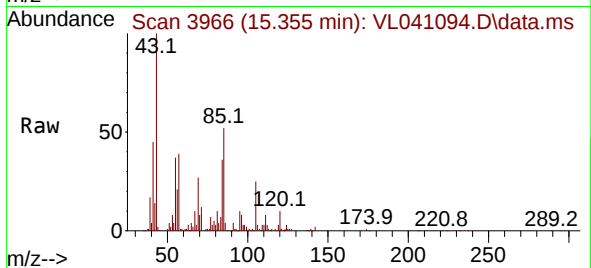
120 40.9 38.7 58.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/13/2024

Supervised By :Mahesh Dadoda 03/13/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.396 ppbv m

RT: 16.117 min Scan# 4203

Delta R.T. 0.003 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

Tgt Ion:105 Resp: 142934

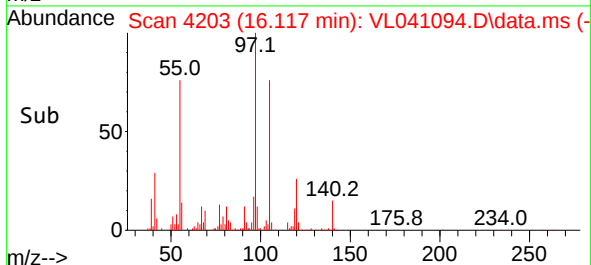
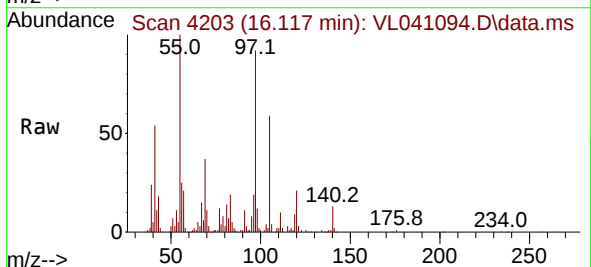
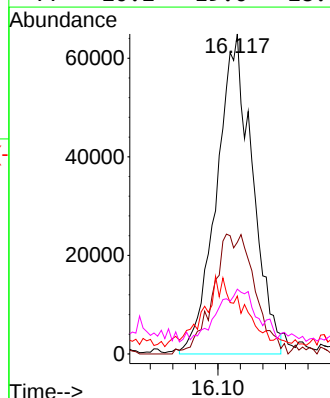
Ion Ratio Lower Upper

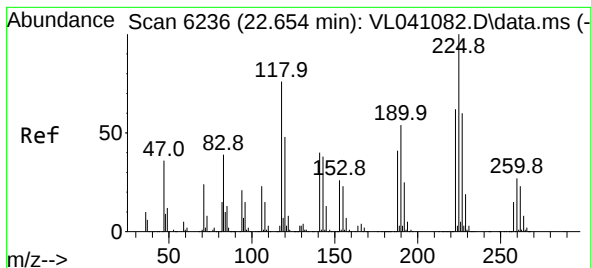
105 100

120 34.9 40.4 60.6#

91 18.1 41.4 62.0#

77 20.2 19.0 28.4





#78

Hexachloro-1,3-Butadiene

Concen: 0.111 ppbv m

RT: 22.648 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

Instrument :

MSVOA_L

ClientSampleId :

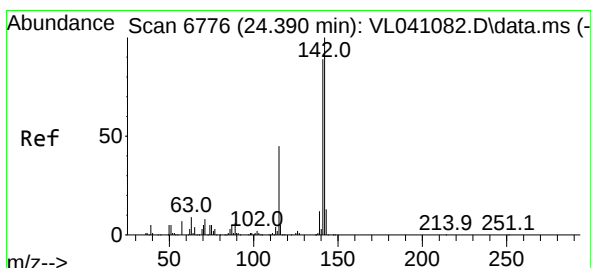
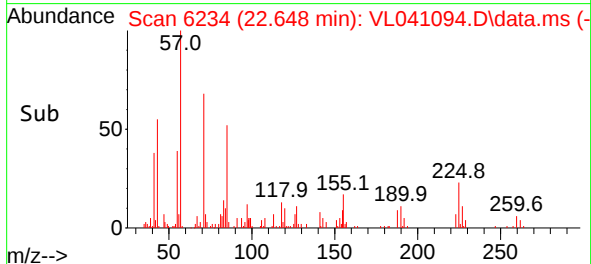
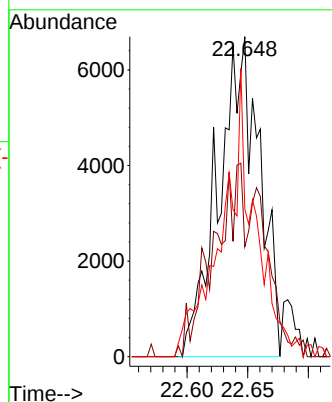
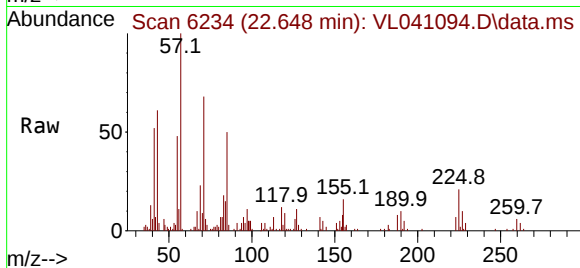
SV1

Tgt Ion:	225	Resp:	15704
Ion Ratio	Lower	Upper	
225	100		
223	0.0	51.1	76.7
227	0.0	51.1	76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024



#80

Naphthalene,2-methyl-

Concen: 0.531 ppbv

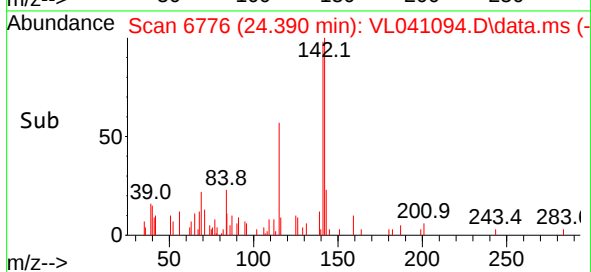
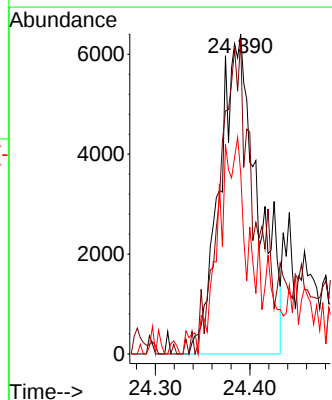
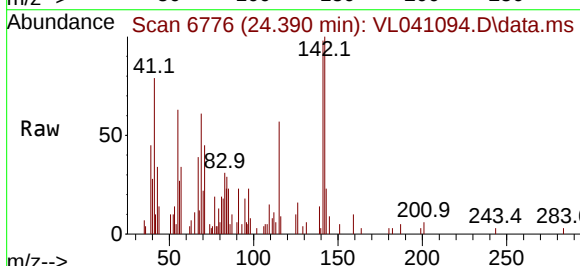
RT: 24.390 min Scan# 6776

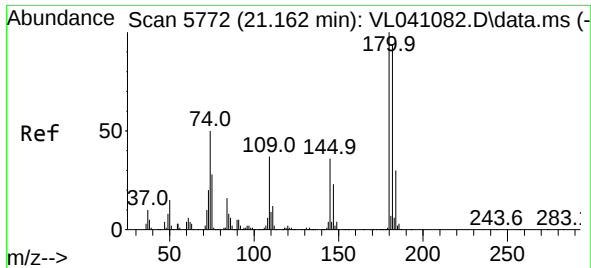
Delta R.T. 0.009 min

Lab File: VL041094.D

Acq: 12 Mar 2024 11:50

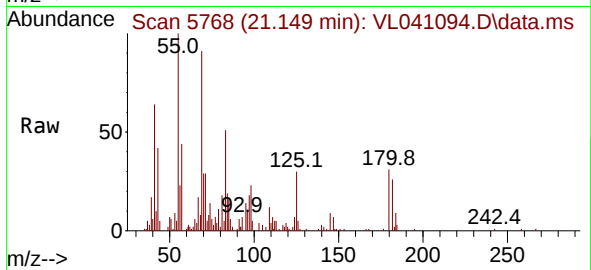
Tgt Ion:	142	Resp:	17794
Ion Ratio	Lower	Upper	
142	100		
141	119.2	61.3	91.9#
115	77.2	35.4	53.2#





#81
1,2,4-Trichlorobenzene
Concen: 0.148 ppbv m
RT: 21.149 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL041094.D
Acq: 12 Mar 2024 11:50

Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:180 Resp: 17839
Ion Ratio Lower Upper
180 100
182 106.1 78.7 118.1
184 29.8 25.3 37.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/13/2024
Supervised By :Mahesh Dadoda 03/13/2024

