

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073124\
 Data File : VL041462.D
 Acq On : 31 Jul 2024 14:16
 Operator : SY/MD
 Sample : P3385-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/01/2024
 Supervised By : Mahesh Dadoda 08/01/2024

Quant Time: Aug 01 02:43:24 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Thu Aug 01 02:36:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1071998	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2786619	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2578178	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2051267	10.339	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.738	85	44942	0.244	ppbv	92
4) Chloromethane	2.822	50	40791	0.601	ppbv	97
9) Propene	2.716	41	55080	0.940	ppbv #	75
10) Heptane	7.584	43	194303	1.475	ppbv	99
11) Trichlorofluoromethane	3.571	101	36251	0.221	ppbv	84
13) Ethanol	3.256	45	6717377	1282.018	ppbv	96
15) Acetone	3.472	43	10856724	89.135	ppbv #	87
17) tert-Butyl alcohol	3.906	59	79888	0.719	ppbv #	94
19) Isopropyl Alcohol	3.594	45	1492244	20.956	ppbv #	1
20) Methylene Chloride	3.941	84	4460450	98.204	ppbv	92
26) Hexane	5.221	57	2132334	21.243	ppbv #	51
29) Chloroform	5.288	83	30368	0.185	ppbv	97
34) 2-Butanone	4.796	43	508862	3.775	ppbv	99
35) Carbon Tetrachloride	6.504	117	9833m	0.064	ppbv	
36) Benzene	6.381	78	25266m	0.124	ppbv	
37) 1,2-Dichloroethane	5.812	62	17143m	0.150	ppbv	
38) Trichloroethene	7.298	130	7765m	0.083	ppbv	
43) Methyl Methacrylate	7.481	69	11399m	0.156	ppbv	
52) Tetrachloroethene	10.622	164	463485	5.891	ppbv	97
53) Toluene	9.227	91	3183954	14.038	ppbv	99
58) Ethyl Benzene	12.098	91	48532m	0.163	ppbv	
59) m/p-Xylene	12.352	91	117342m	0.457	ppbv	
60) o-Xylene	13.066	91	61317m	0.253	ppbv	
61) Styrene	12.905	104	62114	0.567	ppbv	96
64) n-propylbenzene	14.915	120	10198m	0.106	ppbv	
69) p-Isopropyltoluene	16.998	119	452867	1.189	ppbv	98
72) 4-Ethyltoluene	15.195	105	71060m	0.249	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	57254	0.233	ppbv	86
74) 1,2,4-Trimethylbenzene	16.111	105	166714	0.583	ppbv #	68
79) Naphthalene	21.397	128	38156m	0.151	ppbv	

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

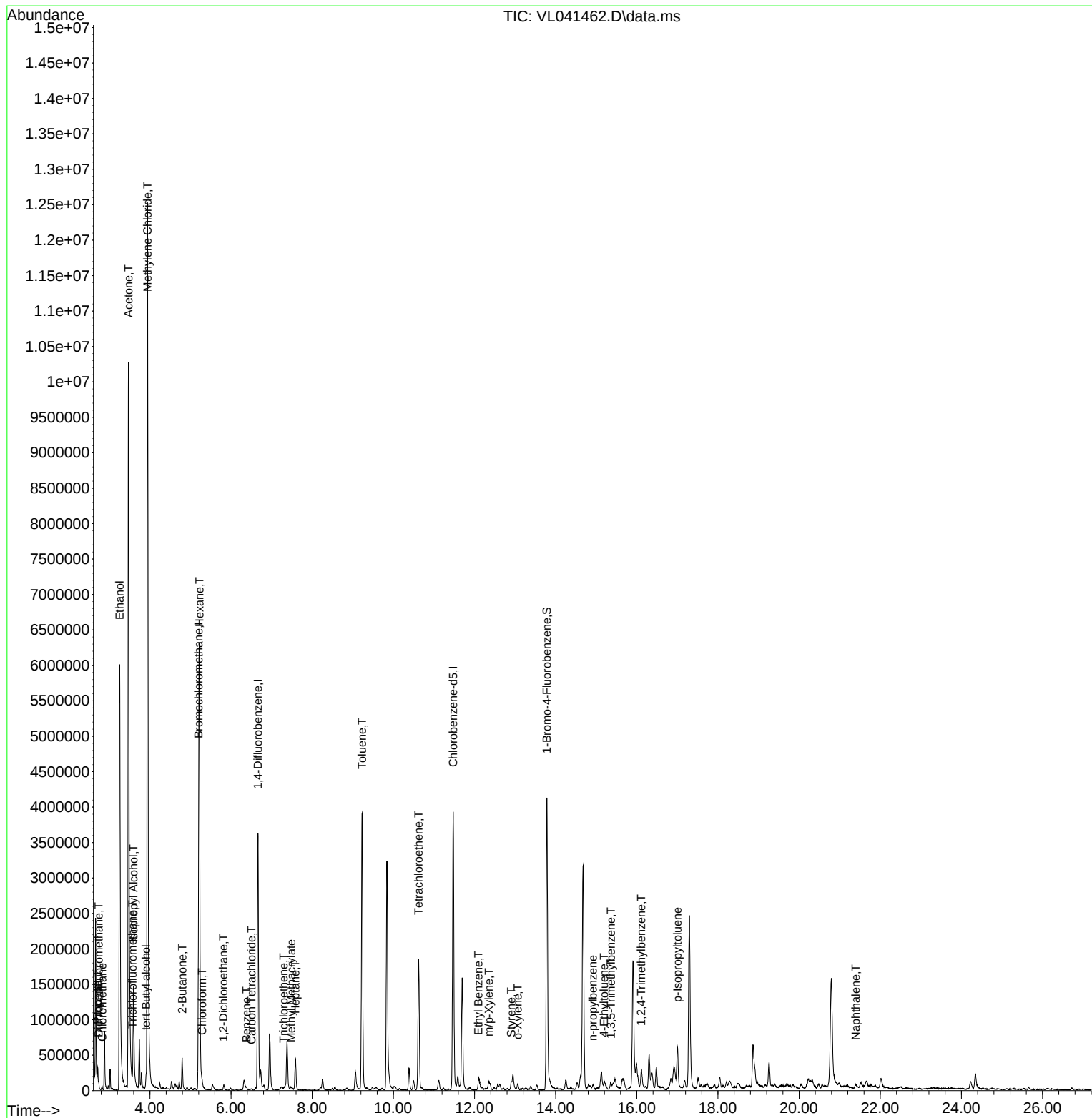
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073124\
Data File : VL041462.D
Acq On : 31 Jul 2024 14:16
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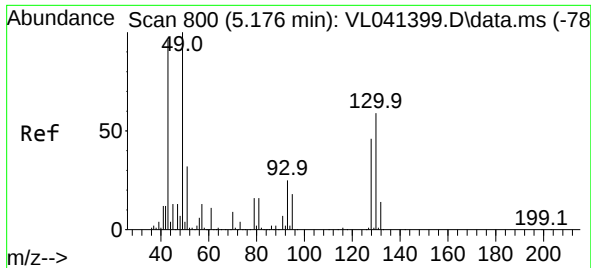
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Aug 01 02:43:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 01 02:36:30 2024
Response via : Initial Calibration

Manual Integrations
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Supervised By : Mahesh Dadoda 08/01/2024





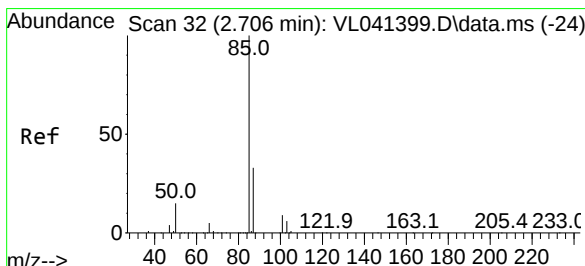
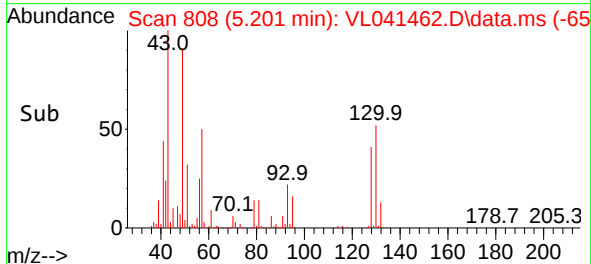
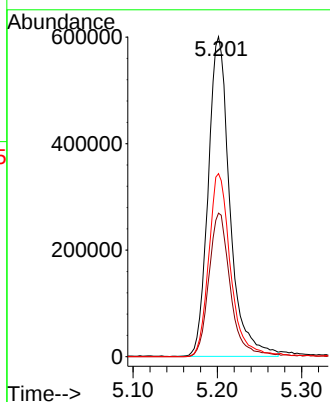
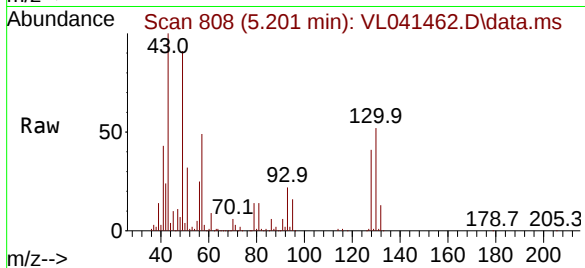
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 49 Resp: 1071998
Ion Ratio Lower Upper
49 100
128 45.6 23.8 71.4
130 58.4 30.8 92.4

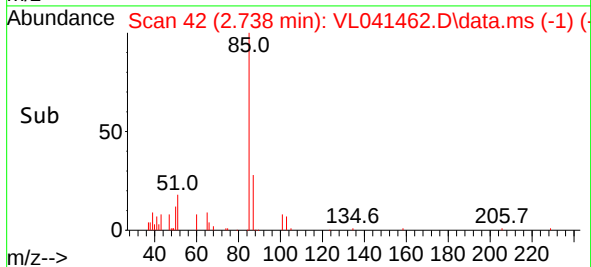
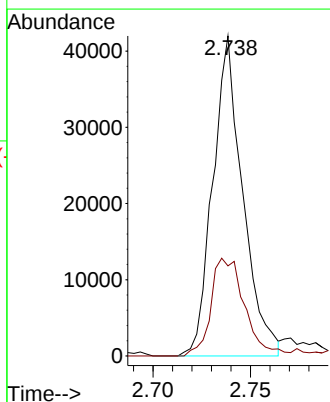
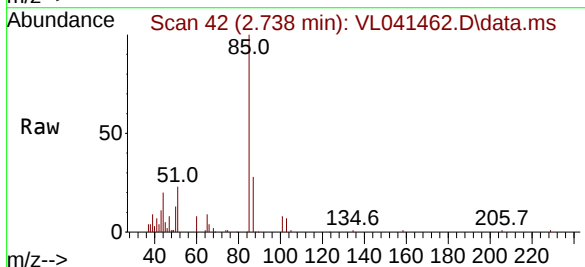
Manual Integrations
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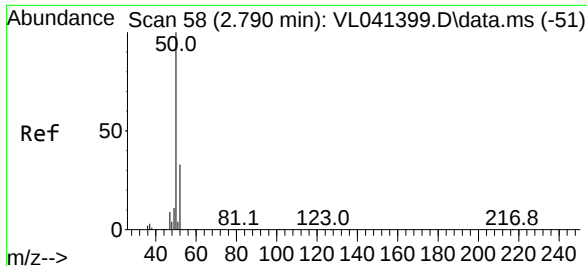
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Supervised By :Mahesh Dadoda 08/01/2024



#2
Dichlorodifluoromethane
Concen: 0.244 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.010 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Tgt Ion: 85 Resp: 44942
Ion Ratio Lower Upper
85 100
87 28.1 26.0 39.0





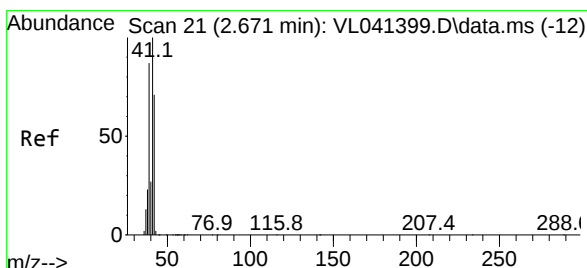
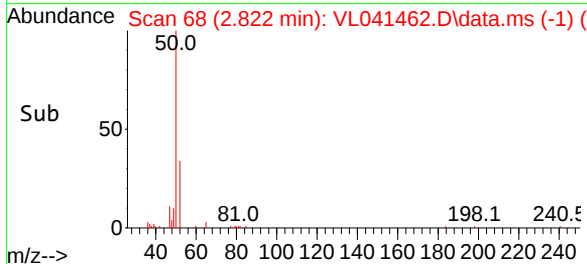
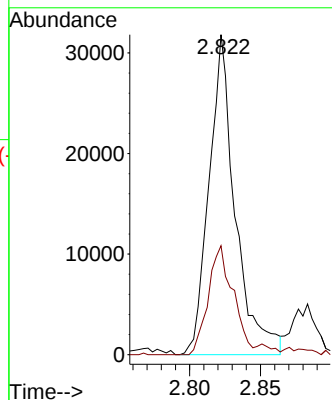
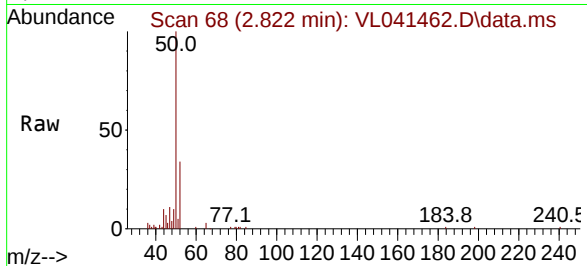
#4
Chloromethane
Concen: 0.601 ppbv
RT: 2.822 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 50 Resp: 4079
Ion Ratio Lower Upper
50 100
52 34.1 26.1 39.1

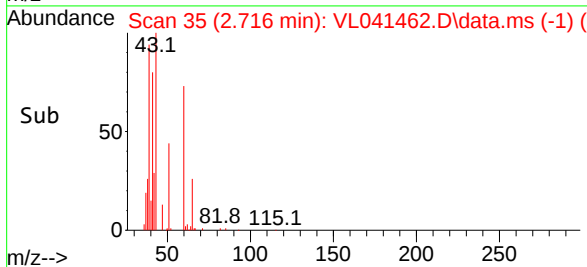
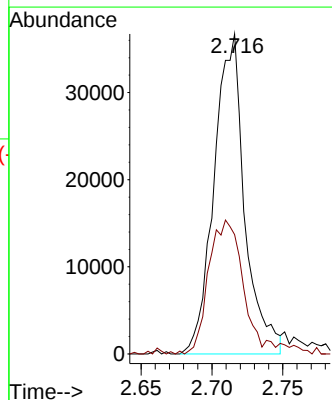
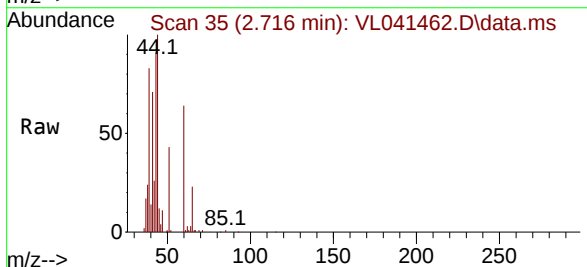
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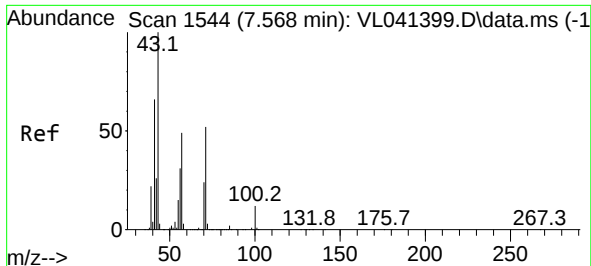
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024



#9
Propene
Concen: 0.940 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.022 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Tgt Ion: 41 Resp: 55080
Ion Ratio Lower Upper
41 100
42 49.2 55.9 83.9#





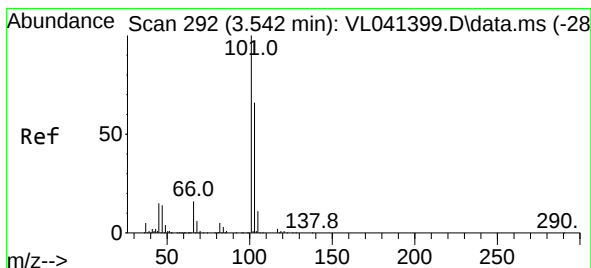
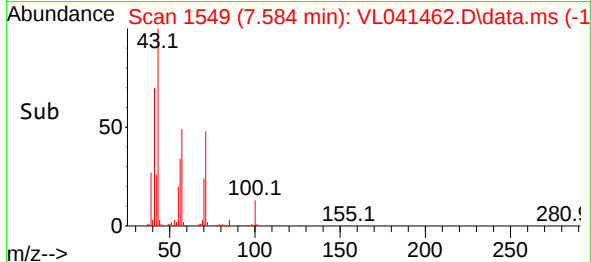
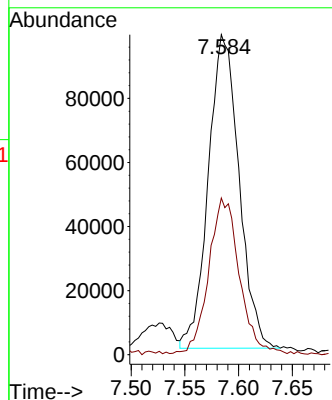
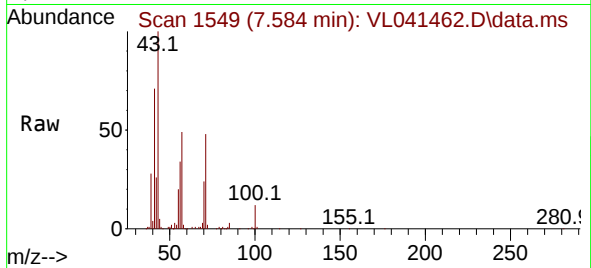
#10
Heptane
Concen: 1.475 ppbv
RT: 7.584 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 19430
Ion Ratio Lower Upper
43 100
57 50.0 40.5 60.7

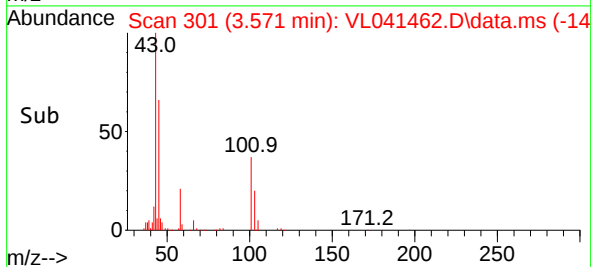
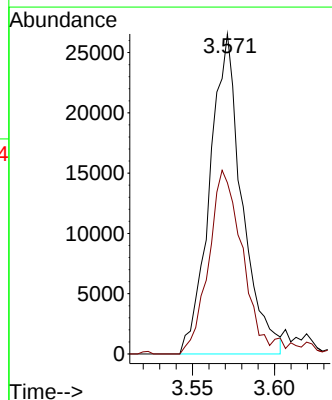
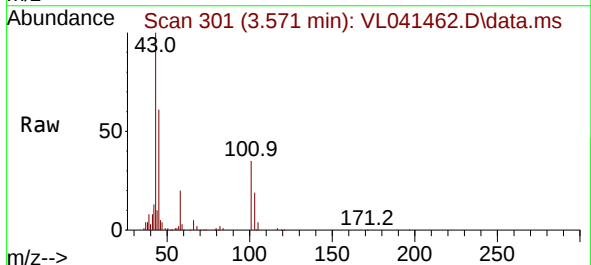
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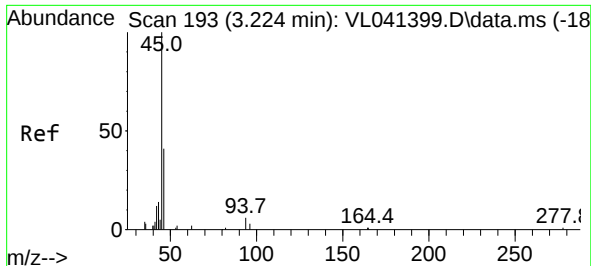
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024



#11
Trichlorofluoromethane
Concen: 0.221 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.006 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

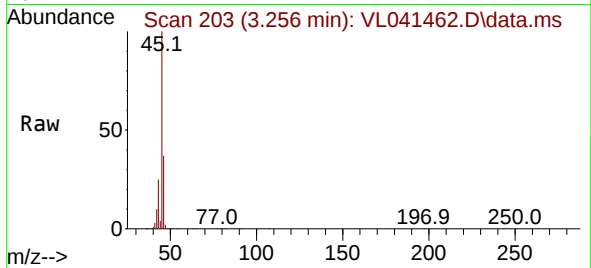
Tgt Ion:101 Resp: 36251
Ion Ratio Lower Upper
101 100
103 53.5 52.6 79.0





#13
Ethanol
Concen: 1282.018 ppbv
RT: 3.256 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

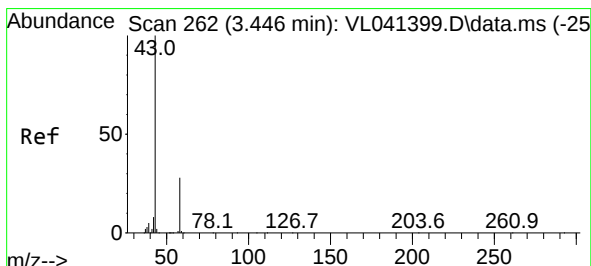
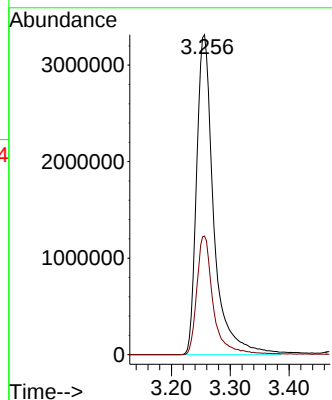
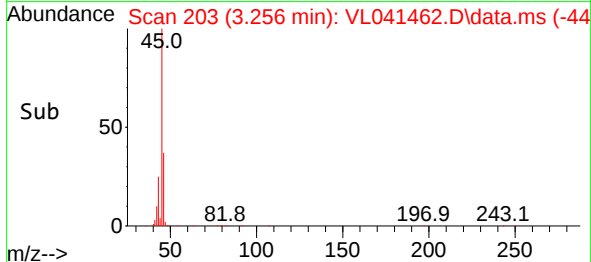
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



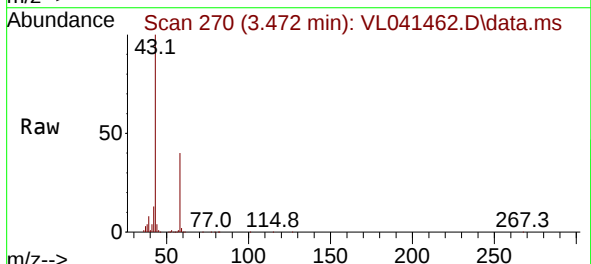
Tgt Ion: 45 Resp: 671737
Ion Ratio Lower Upper
45 100
46 35.8 13.4 53.4

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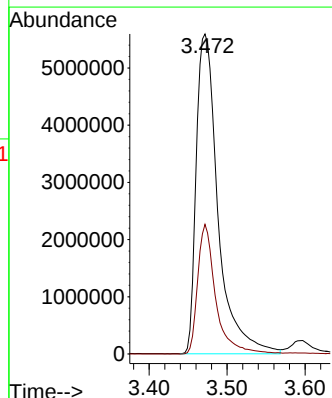
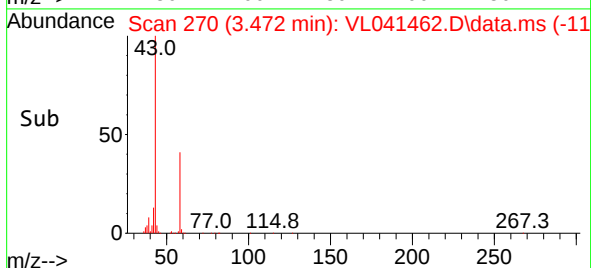
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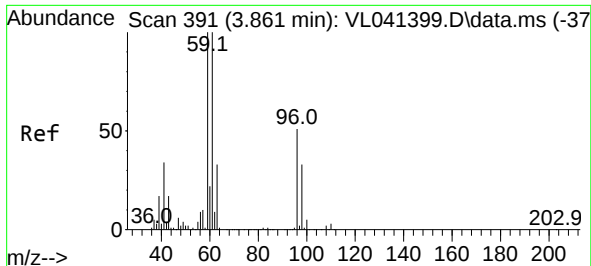


#15
Acetone
Concen: 89.135 ppbv
RT: 3.472 min Scan# 270
Delta R.T. 0.003 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16



Tgt Ion: 43 Resp:10856724
Ion Ratio Lower Upper
43 100
58 33.7 21.4 32.2#





#17

tert-Butyl alcohol

Concen: 0.719 ppbv

RT: 3.906 min Scan# 405

Delta R.T. 0.029 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 59 Resp: 7988

Ion Ratio Lower Upper

59 100

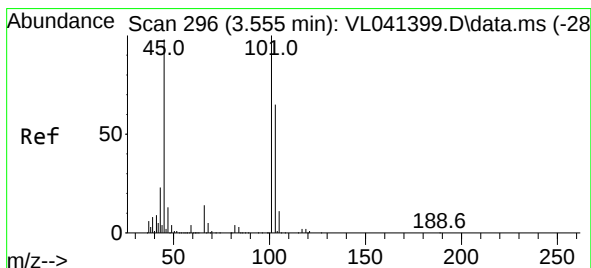
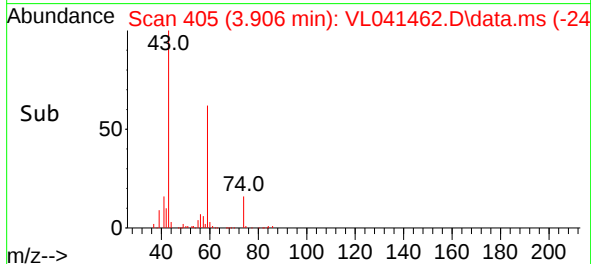
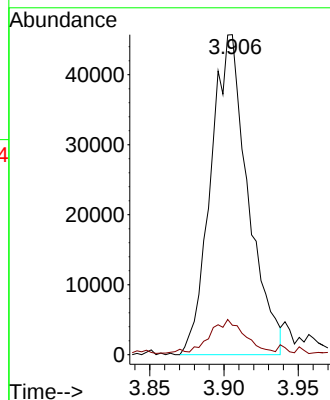
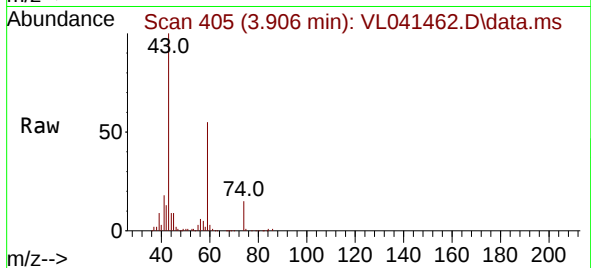
57 12.9 8.6 12.8

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 20.956 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.019 min

Lab File: VL041462.D

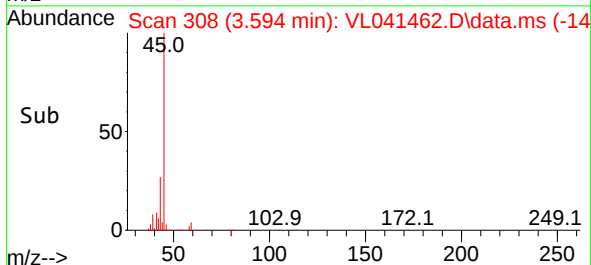
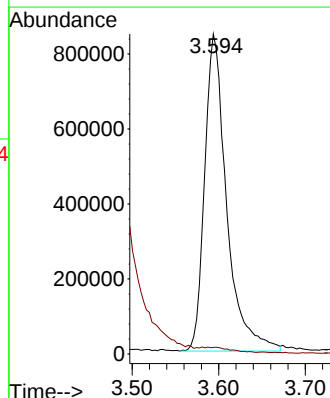
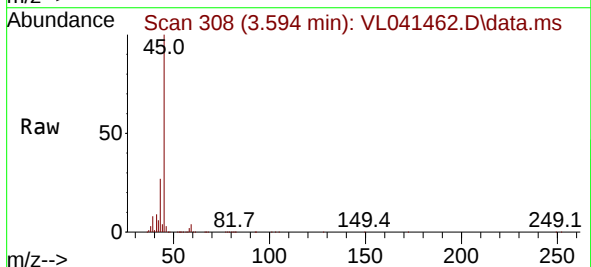
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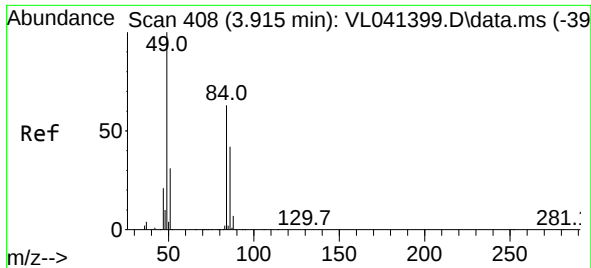
Tgt Ion: 45 Resp: 1492244

Ion Ratio Lower Upper

45 100

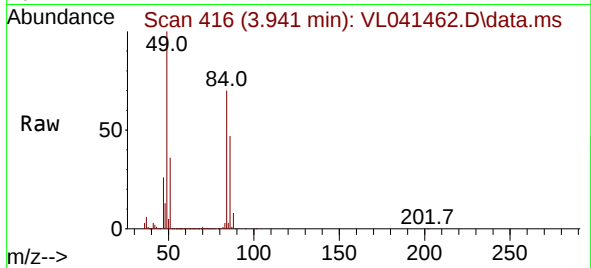
58 245.2 1.9 2.9





#20
Methylene Chloride
Concen: 98.204 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.006 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

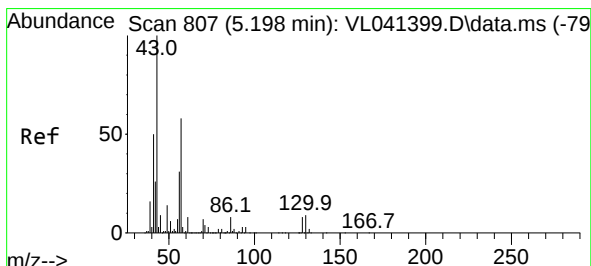
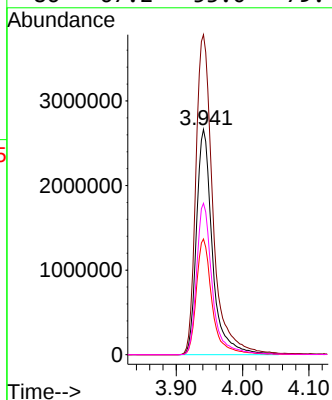
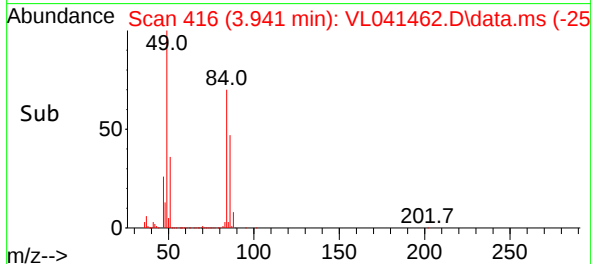
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



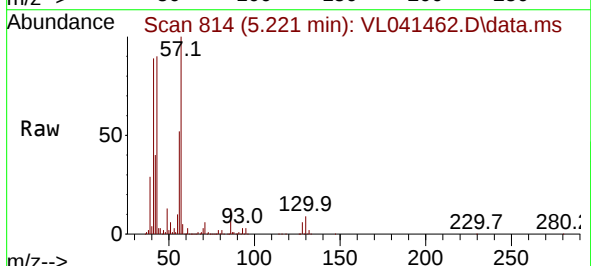
Tgt Ion: 84 Resp: 4460450
Ion Ratio Lower Upper
84 100
49 142.1 126.6 190.0
51 51.4 38.6 58.0
86 67.2 53.0 79.4

Manual Integrations
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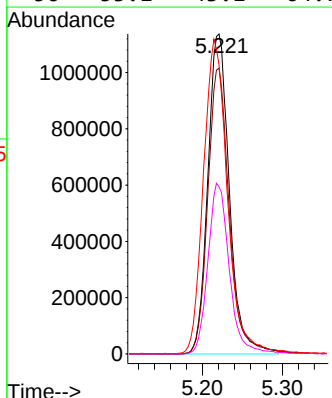
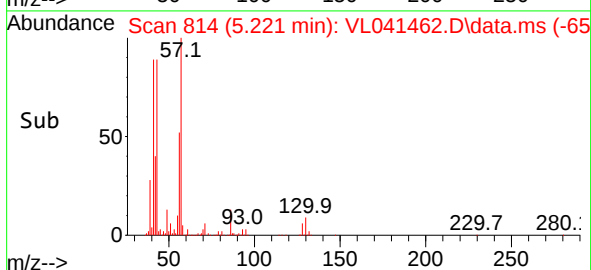
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024

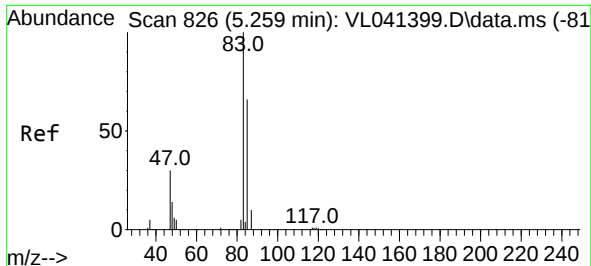


#26
Hexane
Concen: 21.243 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16



Tgt Ion: 57 Resp: 2132334
Ion Ratio Lower Upper
57 100
41 89.6 74.0 111.0
43 109.6 193.6 290.4#
56 53.1 43.1 64.7





#29

Chloroform

Concen: 0.185 ppbv

RT: 5.288 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 83 Resp: 3036

Ion Ratio Lower Upper

83 100

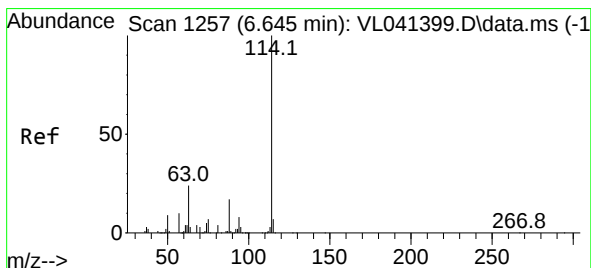
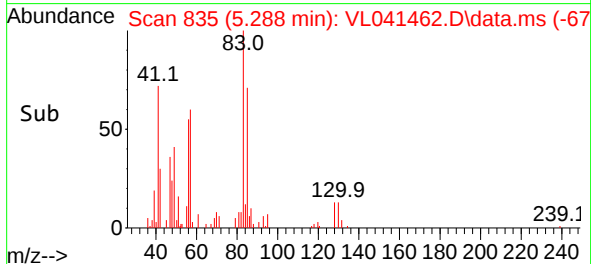
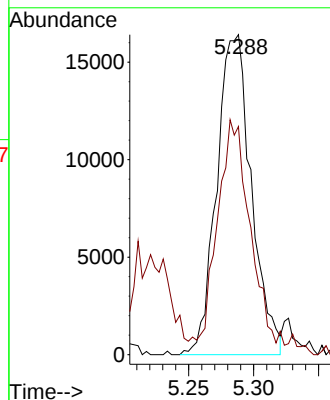
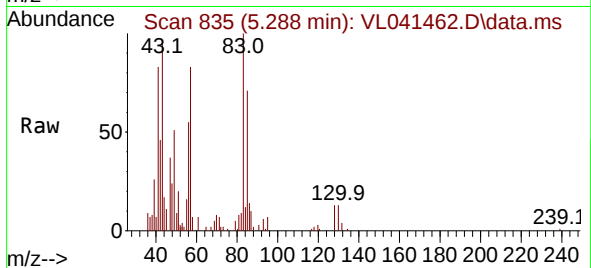
85 64.0 53.1 79.7

Manual Integrations

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Supervised By :Mahesh Dadoda 08/01/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. 0.003 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

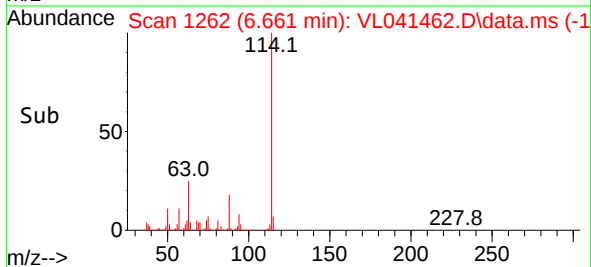
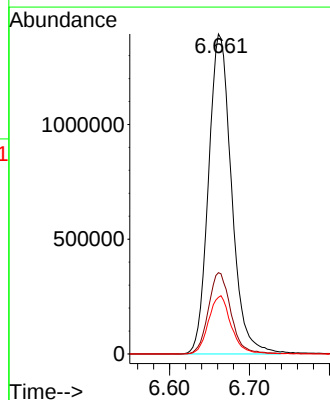
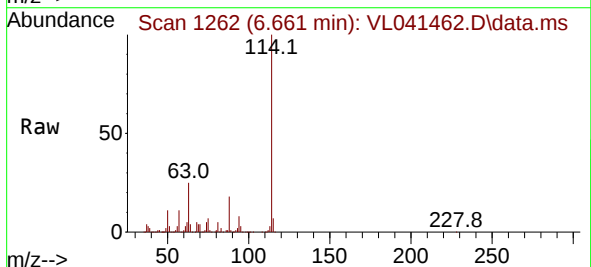
Tgt Ion:114 Resp: 2786619

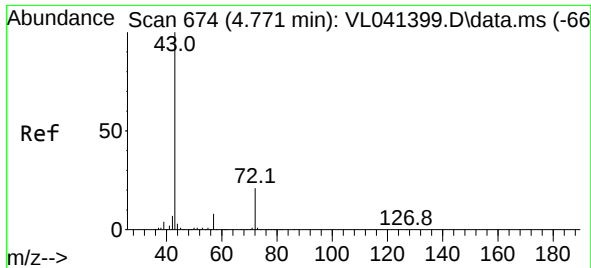
Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

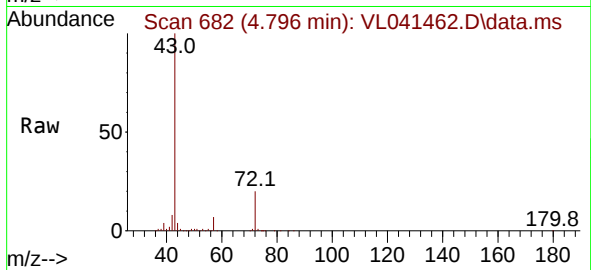
88 17.9 14.3 21.5





#34
2-Butanone
Concen: 3.775 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

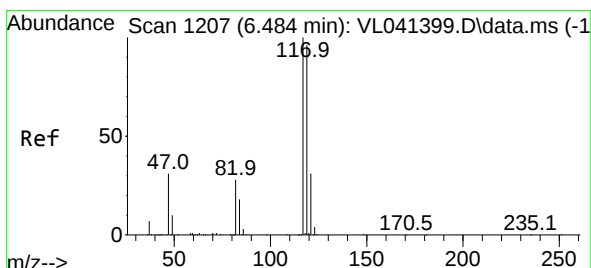
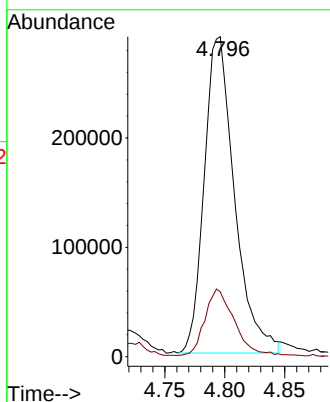
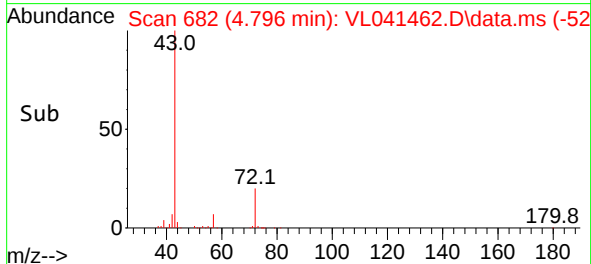
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 508862
Ion Ratio Lower Upper
43 100
72 22.2 17.3 25.9

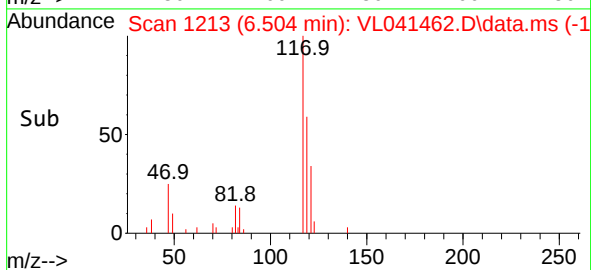
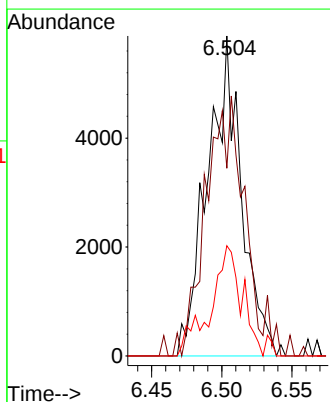
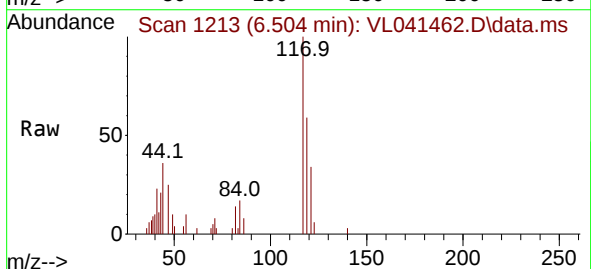
Manual Integrations
APPROVED

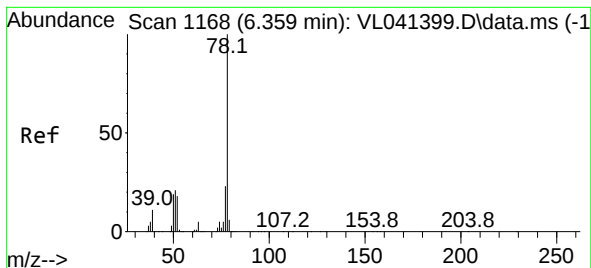
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024



#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 6.504 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Tgt Ion:117 Resp: 9833
Ion Ratio Lower Upper
117 100
119 58.7 76.6 115.0#
121 34.4 25.1 37.7





#36

Benzene

Concen: 0.124 ppbv m

RT: 6.381 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VL041462.D

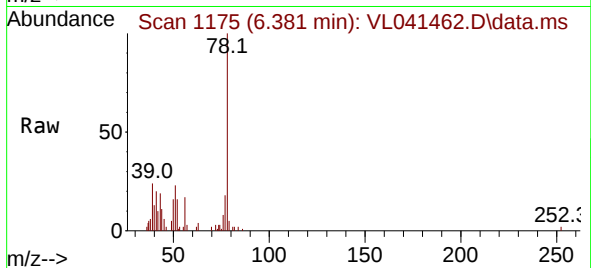
Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP



Tgt Ion: 78 Resp: 2526

Ion Ratio Lower Upper

78 100

77 17.6 18.1 27.1

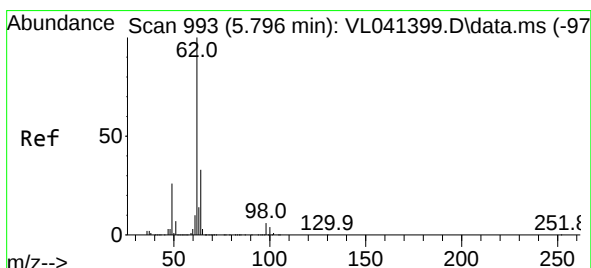
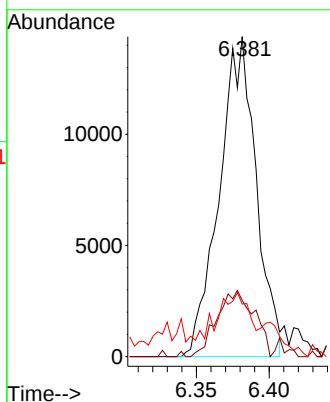
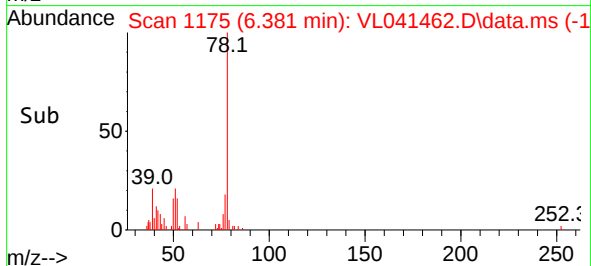
50 16.5 15.5 23.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2024

Supervised By :Mahesh Dadoda 08/01/2024



#37

1,2-Dichloroethane

Concen: 0.150 ppbv m

RT: 5.812 min Scan# 998

Delta R.T. 0.003 min

Lab File: VL041462.D

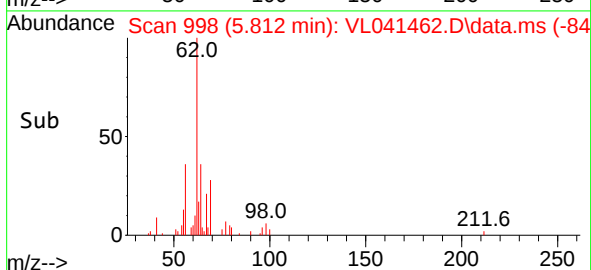
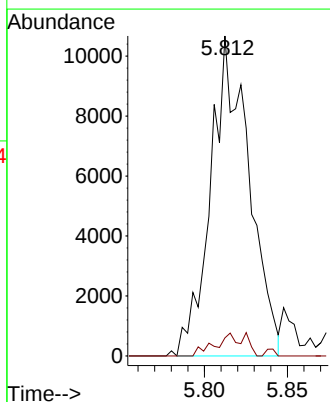
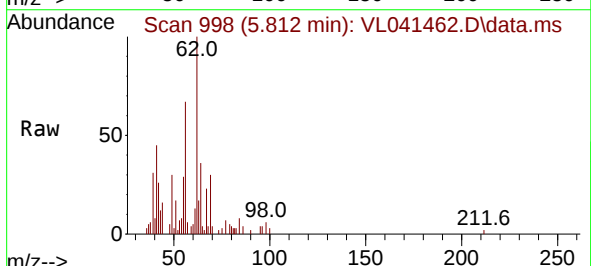
Acq: 31 Jul 2024 14:16

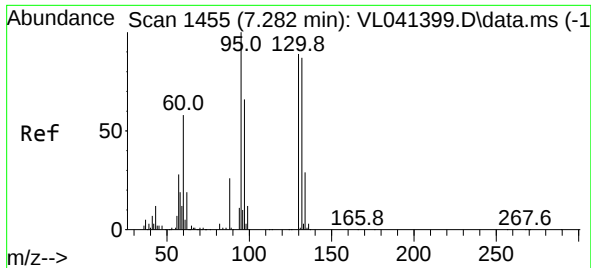
Tgt Ion: 62 Resp: 17143

Ion Ratio Lower Upper

62 100

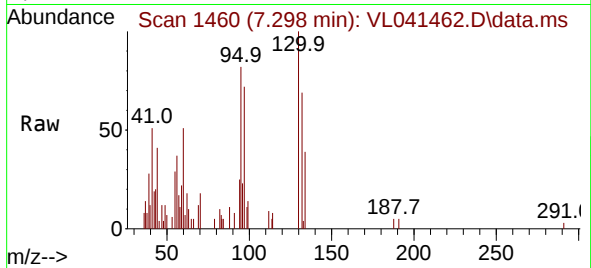
98 5.9 5.0 7.4





#38
 Trichloroethene
 Concen: 0.083 ppbv m
 RT: 7.298 min Scan# 1455
 Delta R.T. 0.000 min
 Lab File: VL041462.D
 Acq: 31 Jul 2024 14:16

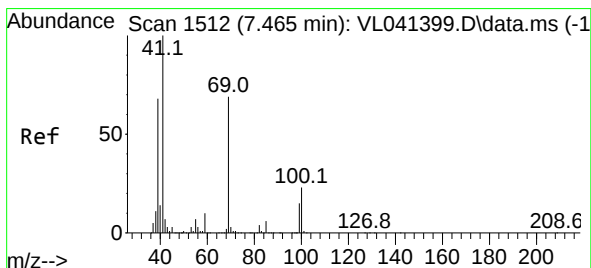
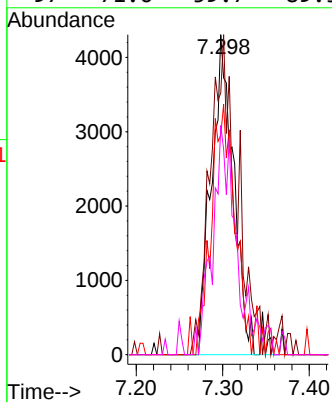
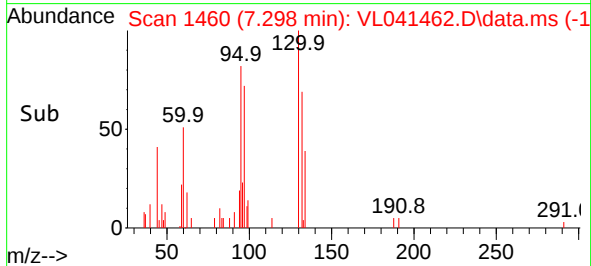
Instrument : MSVOA_L
 ClientSampleId : IA1DUP



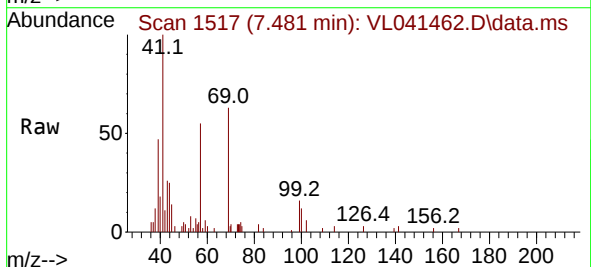
Tgt Ion:130 Resp: 776
 Ion Ratio Lower Upper
 130 100
 95 81.8 90.2 135.2#
 132 68.6 78.1 117.1#
 97 71.6 59.7 89.5#

Manual Integrations
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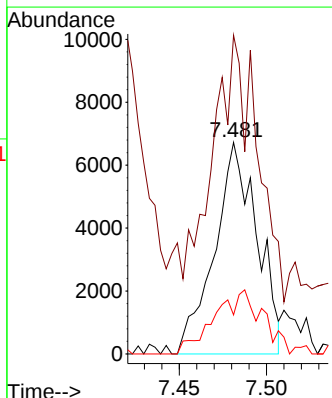
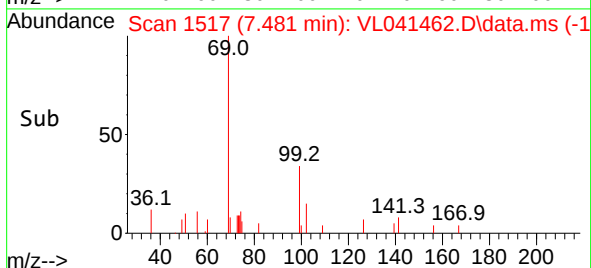
Reviewed By :Semsettin Yesilyurt 08/01/2024
 Supervised By :Mahesh Dadoda 08/01/2024

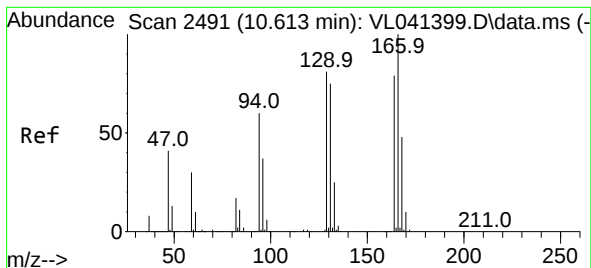


#43
 Methyl Methacrylate
 Concen: 0.156 ppbv m
 RT: 7.481 min Scan# 1517
 Delta R.T. 0.003 min
 Lab File: VL041462.D
 Acq: 31 Jul 2024 14:16



Tgt Ion: 69 Resp: 11399
 Ion Ratio Lower Upper
 69 100
 41 193.9 118.7 178.1#
 100 0.0 27.0 40.4#





#52

Tetrachloroethene

Concen: 5.891 ppbv

RT: 10.622 min Scan# 2494

Delta R.T. 0.000 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:164 Resp: 46348

Ion Ratio Lower Upper

164 100

166 128.4 101.1 151.7

129 101.9 81.7 122.5

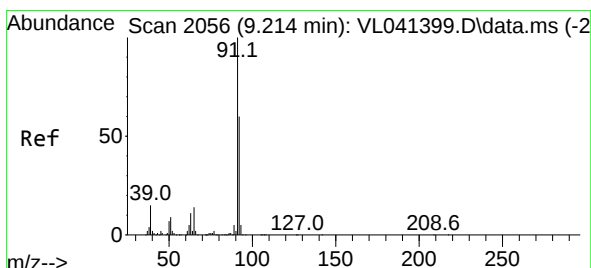
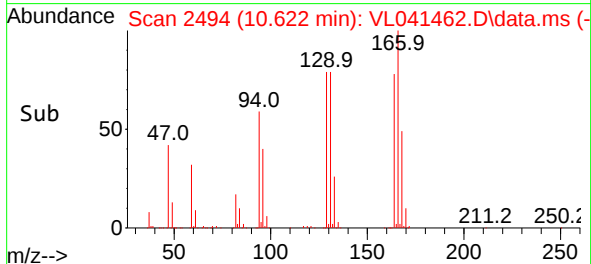
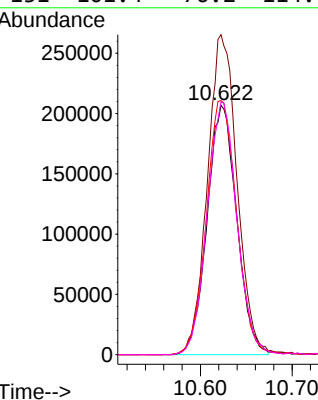
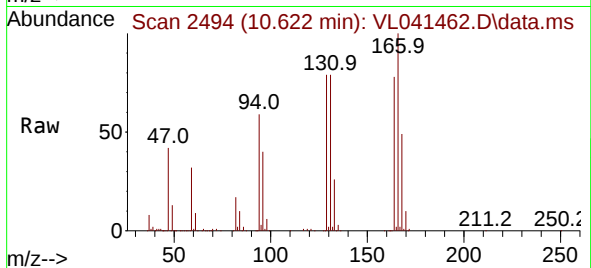
131 101.4 76.2 114.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2024

Supervised By :Mahesh Dadoda 08/01/2024



#53

Toluene

Concen: 14.038 ppbv

RT: 9.227 min Scan# 2060

Delta R.T. 0.000 min

Lab File: VL041462.D

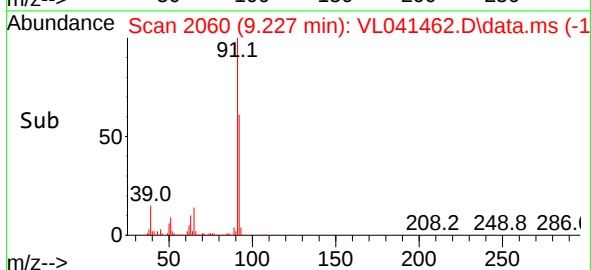
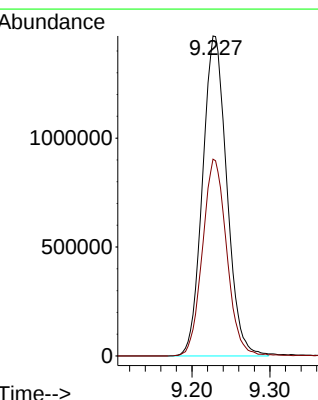
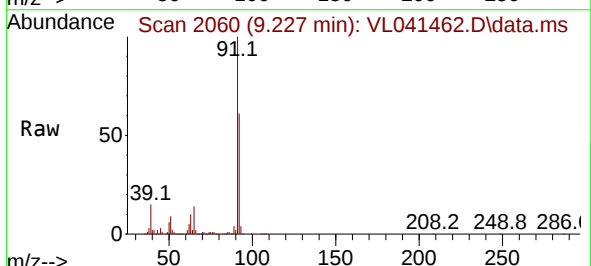
Acq: 31 Jul 2024 14:16

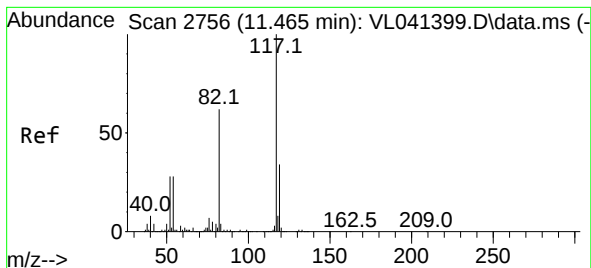
Tgt Ion: 91 Resp: 3183954

Ion Ratio Lower Upper

91 100

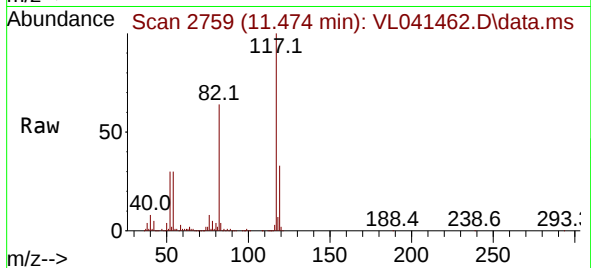
92 61.6 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

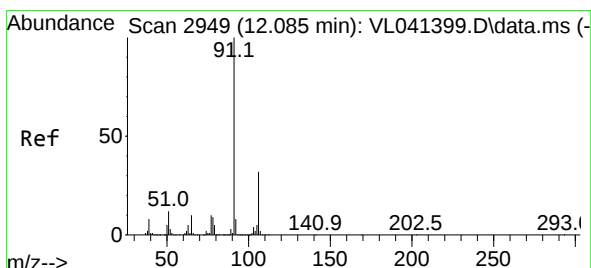
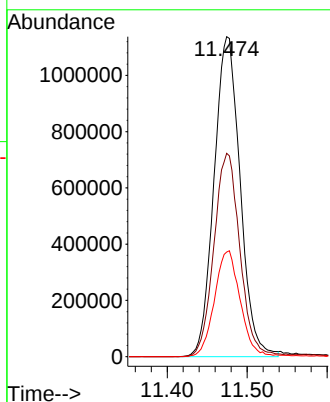
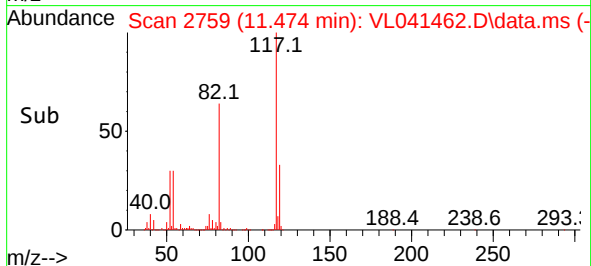
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



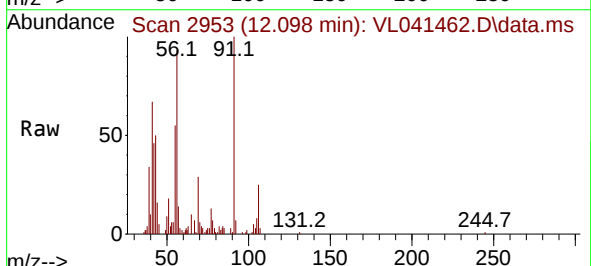
Tgt Ion: 117 Resp: 2578178
Ion Ratio Lower Upper
117 100
82 63.3 51.0 76.6
119 33.2 45.2 67.8

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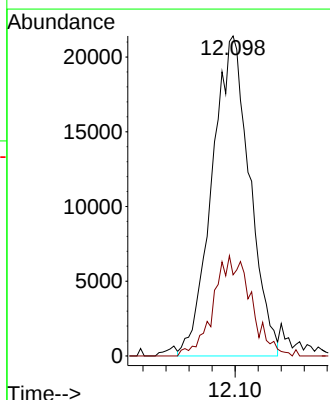
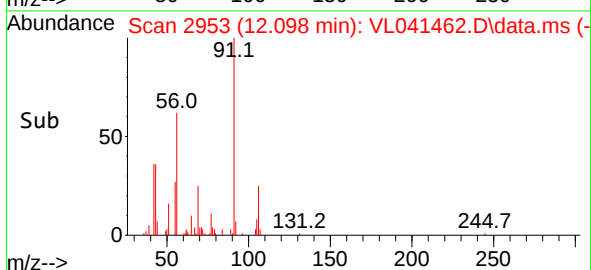
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024

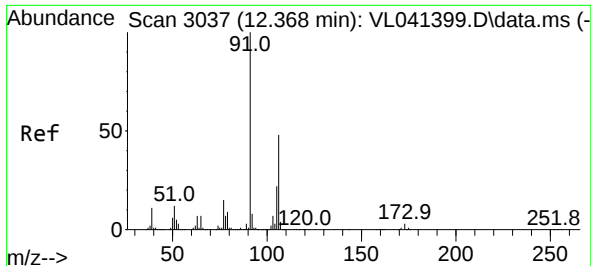


#58
Ethyl Benzene
Concen: 0.163 ppbv m
RT: 12.098 min Scan# 2953
Delta R.T. 0.000 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16



Tgt Ion: 91 Resp: 48532
Ion Ratio Lower Upper
91 100
106 25.4 25.8 38.8





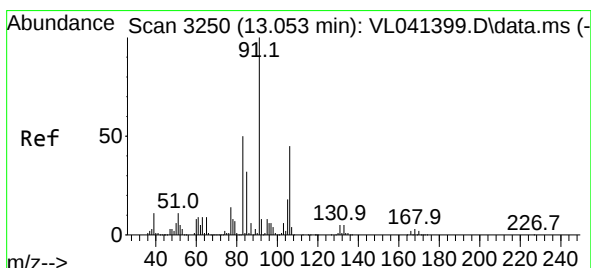
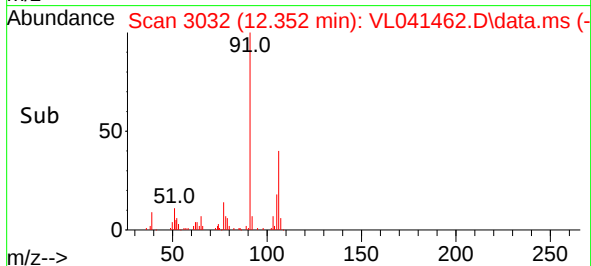
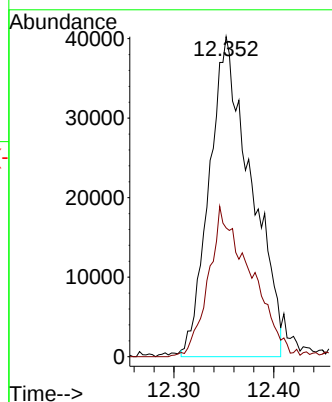
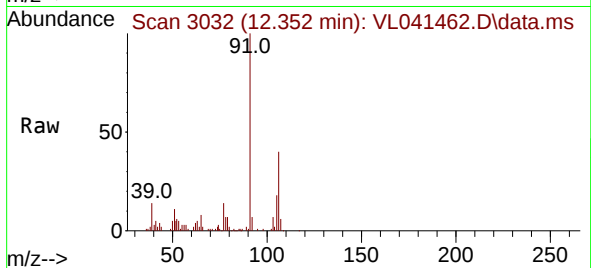
#59
m/p-Xylene
Concen: 0.457 ppbv m
RT: 12.352 min Scan# 3037
Delta R.T. -0.026 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 11734
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5

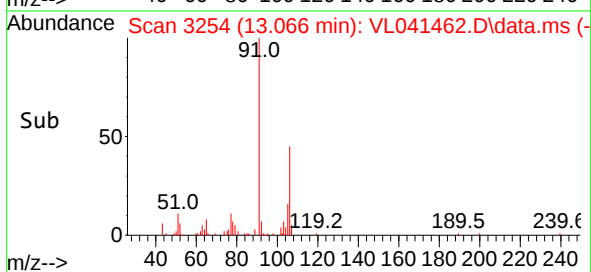
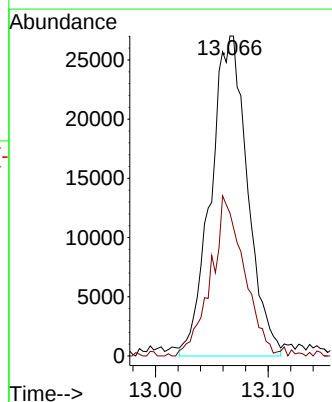
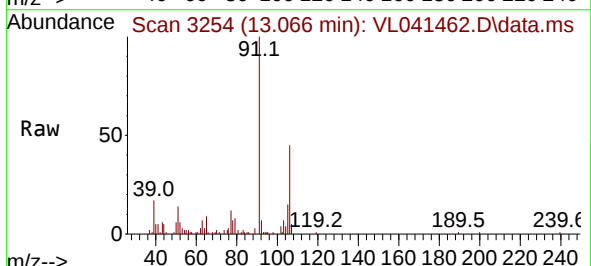
Manual Integrations
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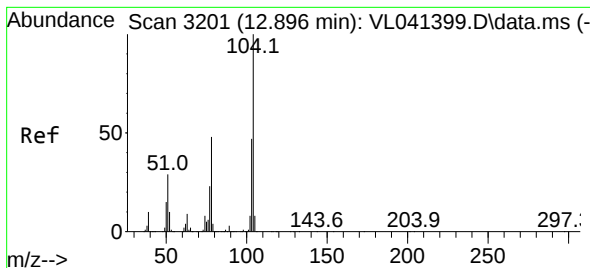
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024



#60
o-Xylene
Concen: 0.253 ppbv m
RT: 13.066 min Scan# 3254
Delta R.T. 0.000 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

Tgt Ion: 91 Resp: 61317
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3





#61

Styrene

Concen: 0.567 ppbv

RT: 12.905 min Scan# 3201

Delta R.T. 0.000 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

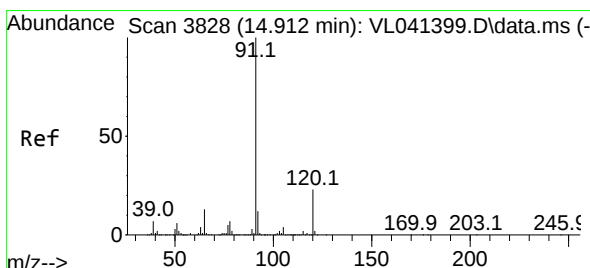
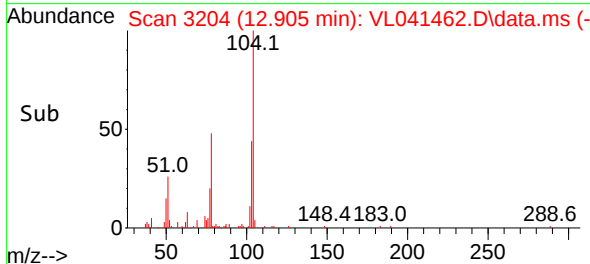
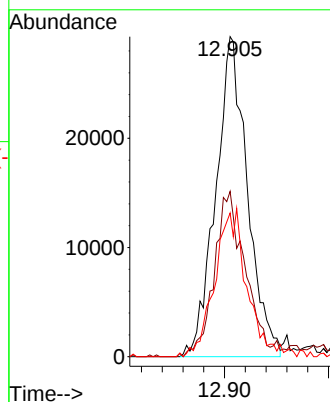
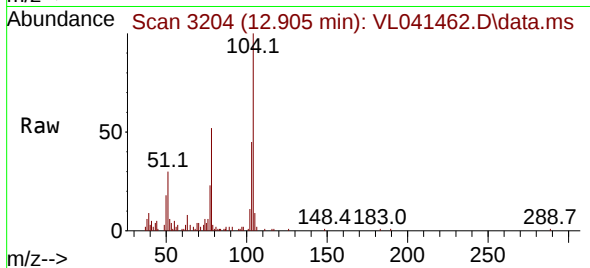
IA1DUP

Tgt Ion:104	Resp:	62114
Ion Ratio	Lower	Upper
104	100	
78	55.6	40.8 61.2
103	47.2	38.2 57.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024



#64

n-propylbenzene

Concen: 0.106 ppbv m

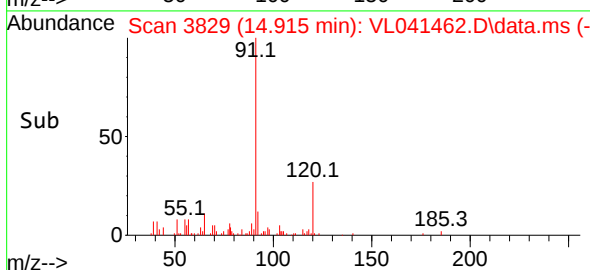
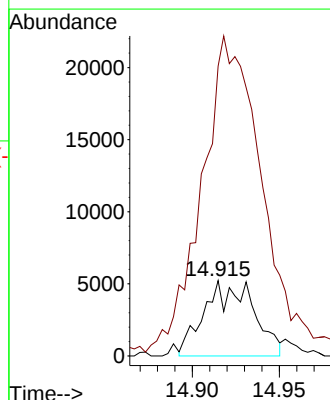
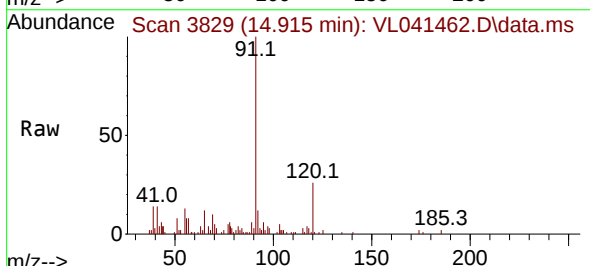
RT: 14.915 min Scan# 3829

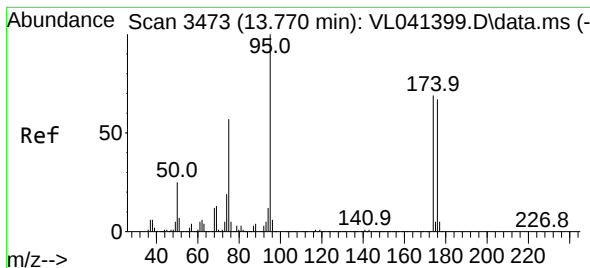
Delta R.T. -0.006 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Tgt Ion:120	Resp:	10198
Ion Ratio	Lower	Upper
120	100	
91	0.0	361.4 542.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.339 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.000 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 95 Resp: 205126

Ion Ratio Lower Upper

95 100

174 70.0 56.3 84.5

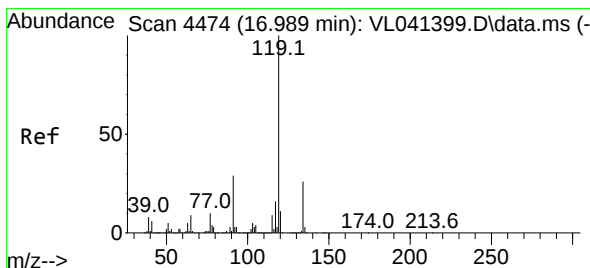
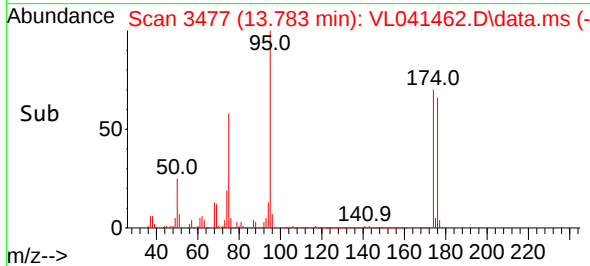
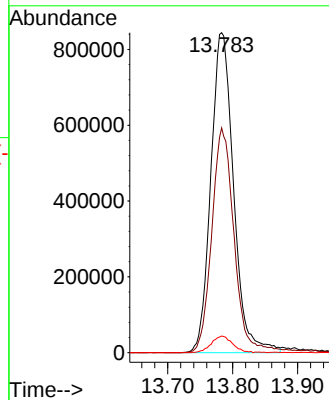
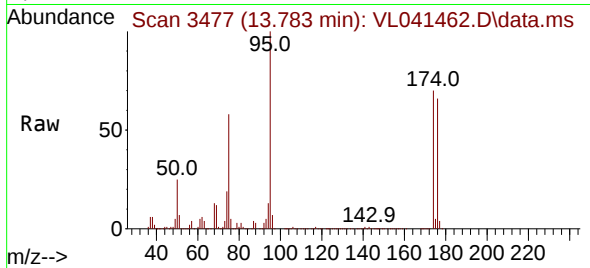
175 5.1 4.0 6.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/01/2024

Supervised By :Mahesh Dadoda 08/01/2024



#69

p-Isopropyltoluene

Concen: 1.189 ppbv

RT: 16.998 min Scan# 4477

Delta R.T. -0.003 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

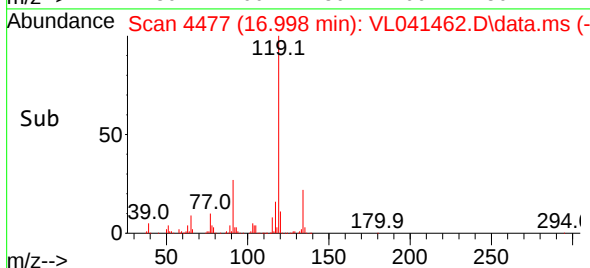
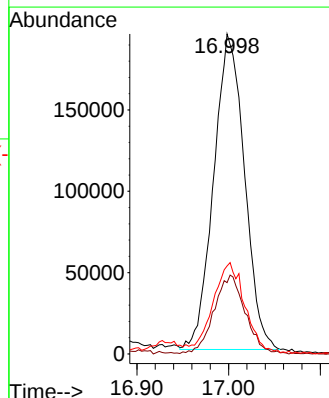
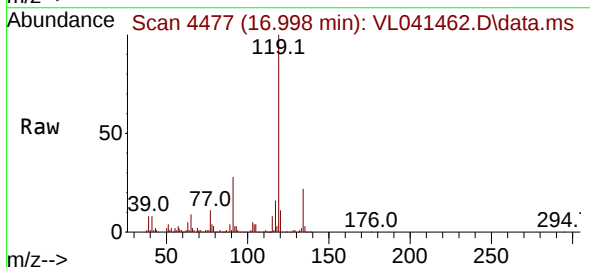
Tgt Ion:119 Resp: 452867

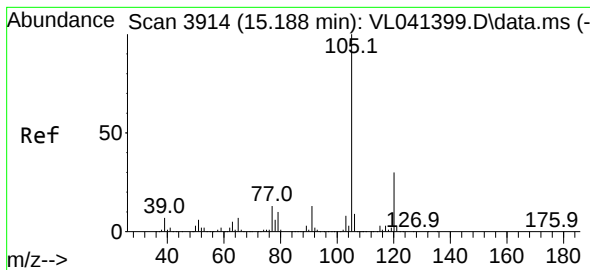
Ion Ratio Lower Upper

119 100

134 25.4 20.5 30.7

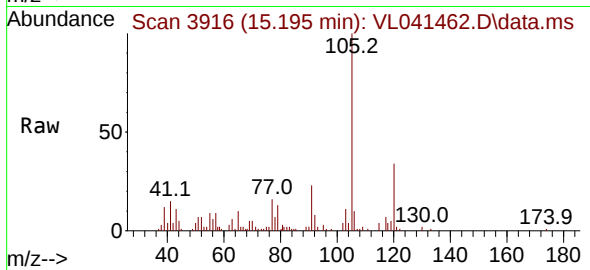
91 31.2 23.2 34.8





#72
4-Ethyltoluene
Concen: 0.249 ppbv m
RT: 15.195 min Scan# 3916
Delta R.T. -0.003 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16

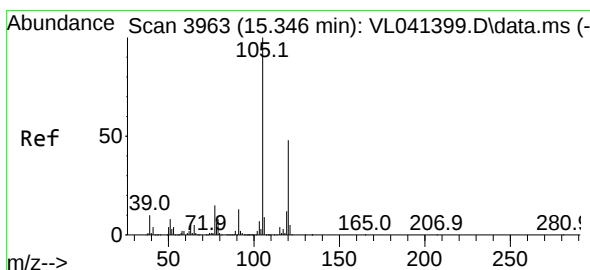
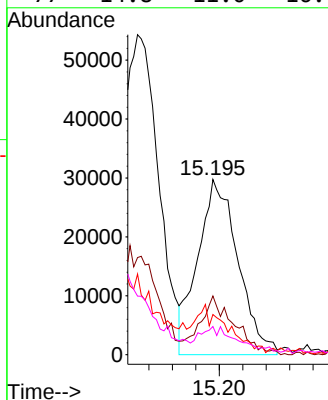
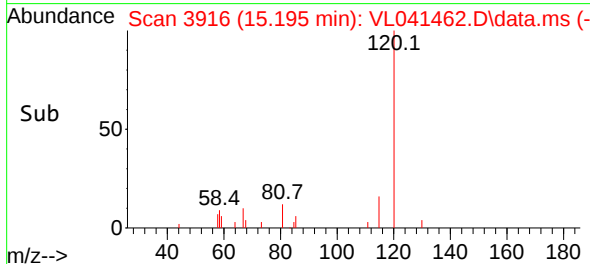
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



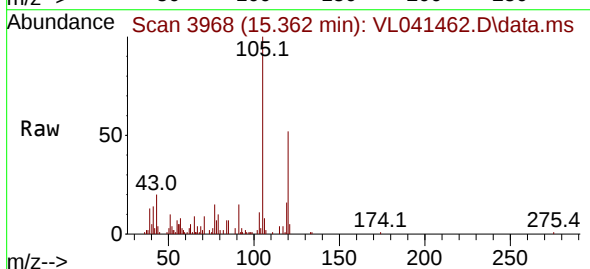
Tgt Ion:105 Resp: 71060
Ion Ratio Lower Upper
105 100
120 29.1 24.2 36.2
91 27.1 10.4 15.6
77 14.8 11.0 16.4

Manual Integrations
APPROVED

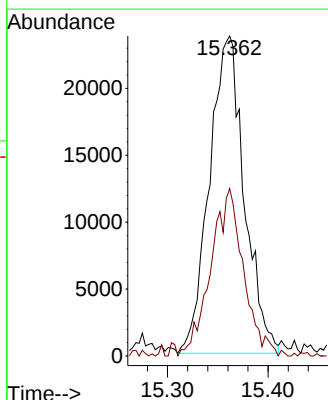
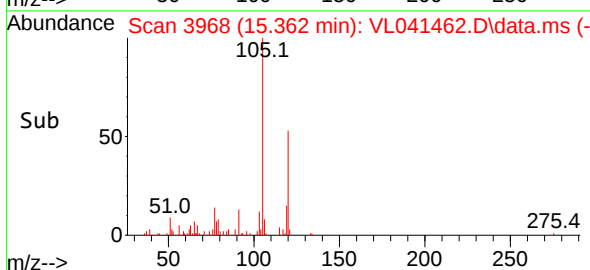
Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024

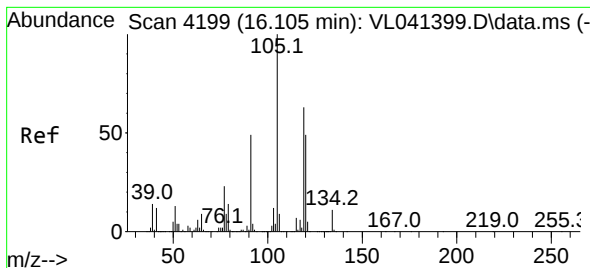


#73
1,3,5-Trimethylbenzene
Concen: 0.233 ppbv
RT: 15.362 min Scan# 3968
Delta R.T. 0.003 min
Lab File: VL041462.D
Acq: 31 Jul 2024 14:16



Tgt Ion:105 Resp: 57254
Ion Ratio Lower Upper
105 100
120 57.7 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 0.583 ppbv

RT: 16.111 min Scan# 4199

Delta R.T. -0.006 min

Lab File: VL041462.D

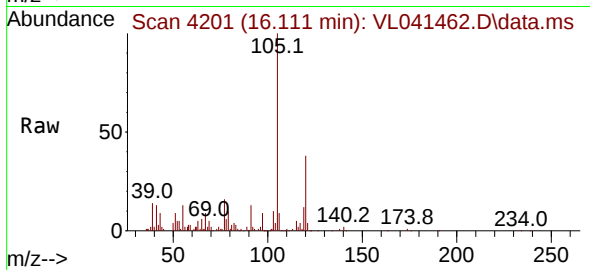
Acq: 31 Jul 2024 14:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP



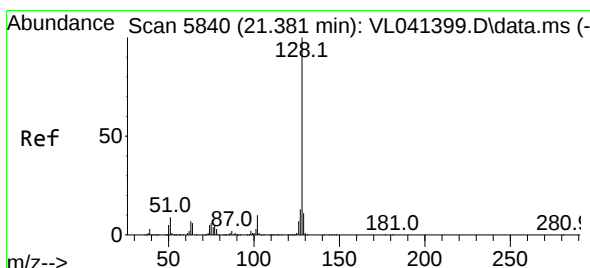
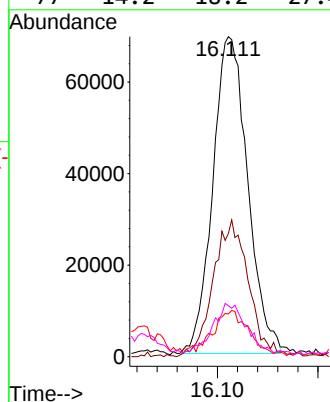
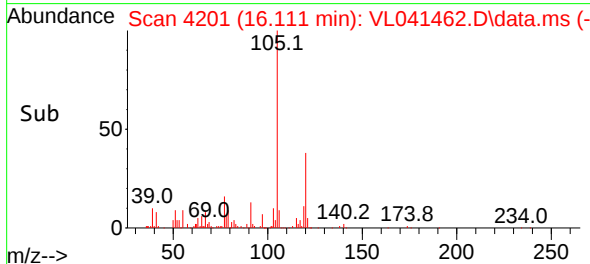
Tgt Ion:105 Resp: 166714

Ion	Ratio	Lower	Upper
105	100		
120	38.4	39.5	59.3
91	12.0	39.8	59.8
77	14.2	18.2	27.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/01/2024
Supervised By :Mahesh Dadoda 08/01/2024



#79

Naphthalene

Concen: 0.151 ppbv m

RT: 21.397 min Scan# 5845

Delta R.T. 0.006 min

Lab File: VL041462.D

Acq: 31 Jul 2024 14:16

Tgt Ion:128 Resp: 38156

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	9.6	9.0	13.4

