

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040488.D
 Acq On : 22 Jun 2023 16:43
 Operator : SY/MD
 Sample : 03300-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AI-1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

Quant Time: Jun 23 01:31:20 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	934945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2443904	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2131515	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1555121	8.840	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.726	85	81973	0.403	ppbv	92
3) Chlorodifluoromethane	2.658	51	57997m	0.379	ppbv	
4) Chloromethane	2.806	50	35830	0.604	ppbv	89
9) Propene	2.690	41	570462	12.081	ppbv	87
10) Heptane	7.565	43	71840	0.672	ppbv	91
11) Trichlorofluoromethane	3.552	101	45247	0.273	ppbv	90
12) 1,1,2-Trichlorotrifluo...	4.054	101	8101m	0.070	ppbv	
13) Ethanol	3.227	45	907860	92.841	ppbv	97
15) Acetone	3.459	43	536292	4.756	ppbv #	86
20) Methylene Chloride	3.922	84	162537	3.377	ppbv	98
26) Hexane	5.198	57	194079	2.006	ppbv #	52
29) Chloroform	5.259	83	12051m	0.073	ppbv	
30) Cyclohexane	6.594	84	36490m	0.468	ppbv	
34) 2-Butanone	4.780	43	66427	0.564	ppbv	95
35) Carbon Tetrachloride	6.481	117	9021	0.054	ppbv #	68
36) Benzene	6.356	78	715112	3.679	ppbv	98
44) 2,2,4-Trimethylpentane	7.314	57	874986	2.754	ppbv	96
52) Tetrachloroethene	10.610	164	5111m	0.084	ppbv	
53) Toluene	9.208	91	1395098	6.814	ppbv	99
58) Ethyl Benzene	12.073	91	400733	1.552	ppbv	100
59) m/p-Xylene	12.330	91	1131135	4.766	ppbv	95
60) o-Xylene	13.044	91	407704	1.811	ppbv	98
61) Styrene	12.883	104	31936m	0.330	ppbv	
62) Isopropylbenzene	14.021	105	54649m	0.163	ppbv	
73) 1,3,5-Trimethylbenzene	15.333	105	58258m	0.260	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	243543	0.924	ppbv #	71
76) 1,4-Dichlorobenzene	16.471	146	17095m	0.119	ppbv	

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

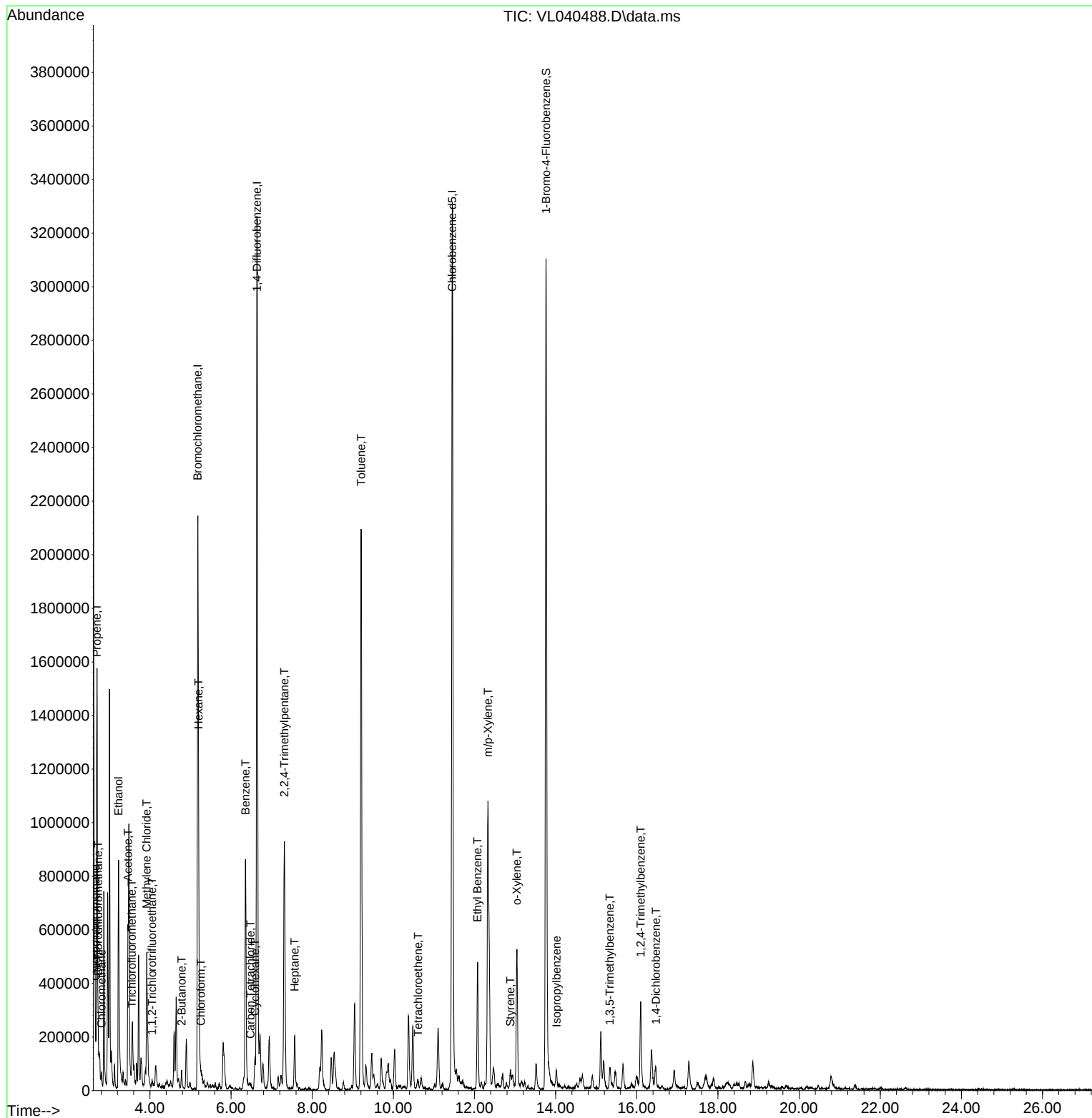
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
Data File : VL040488.D
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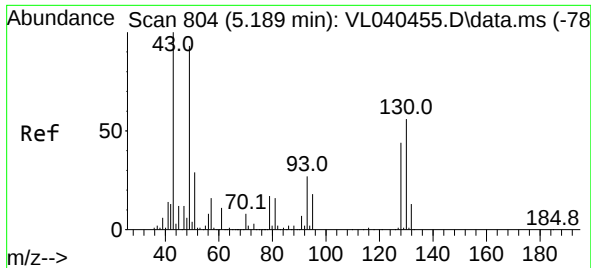
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP

Quant Time: Jun 23 01:31:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jun 06 06:22:12 2023
Response via : Initial Calibration

Manual Integrations
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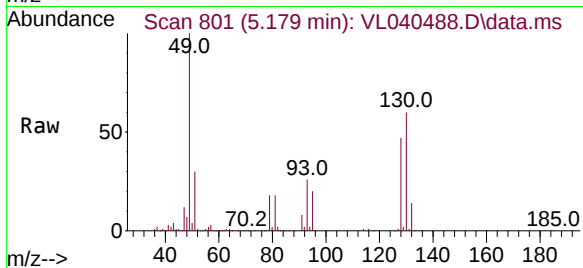
Reviewed By : Semsettin Yesilyurt 06/26/2023
Supervised By : Mahesh Dadoda 06/27/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 804
Delta R.T. -0.010 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

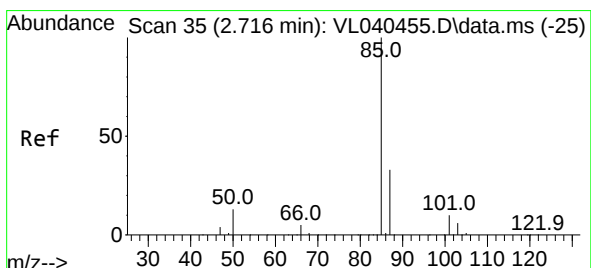
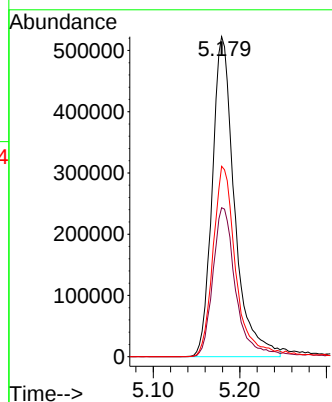
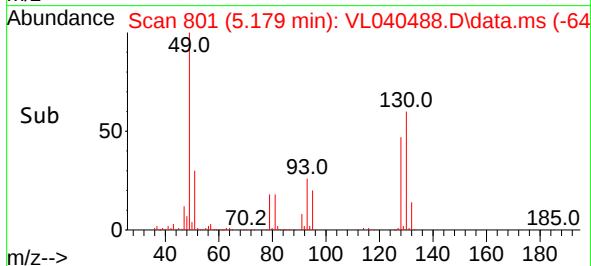
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



Tgt Ion: 49 Resp: 93494
Ion Ratio Lower Upper
49 100
128 48.3 24.7 74.1
130 62.1 31.4 94.2

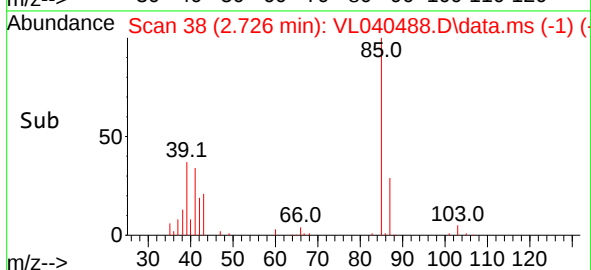
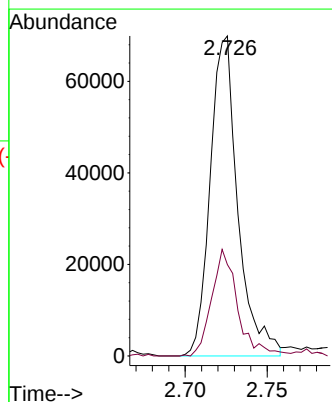
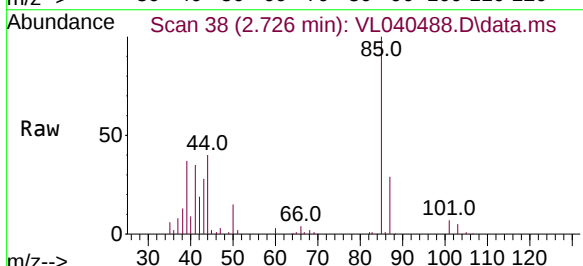
Manual Integrations
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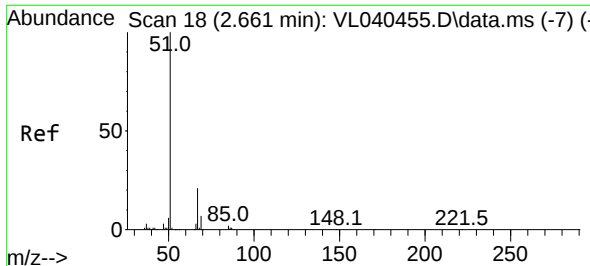
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#2
Dichlorodifluoromethane
Concen: 0.403 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Tgt Ion: 85 Resp: 81973
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8





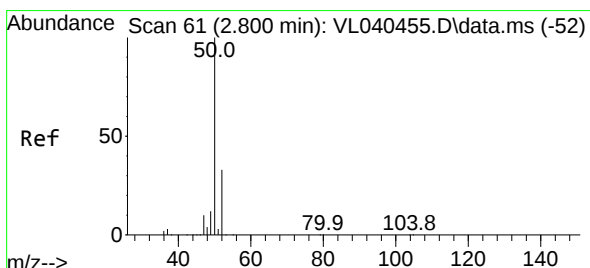
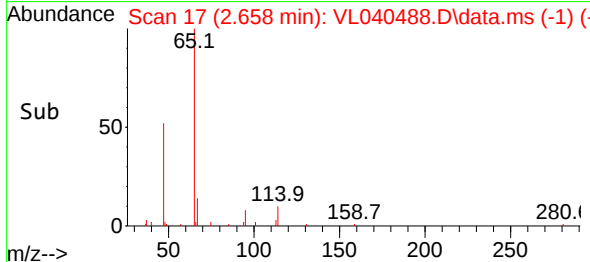
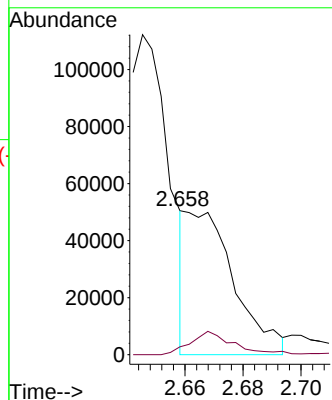
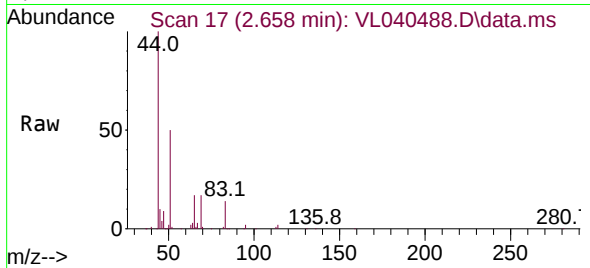
#3
Chlorodifluoromethane
Concen: 0.379 ppbv m
RT: 2.658 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP

Tgt Ion: 51 Resp: 5799
Ion Ratio Lower Upper
51 100
67 16.1 16.3 24.5

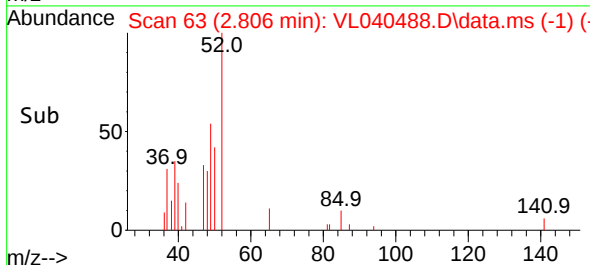
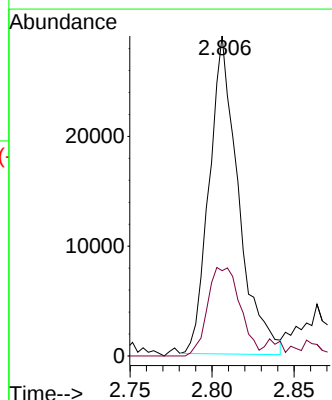
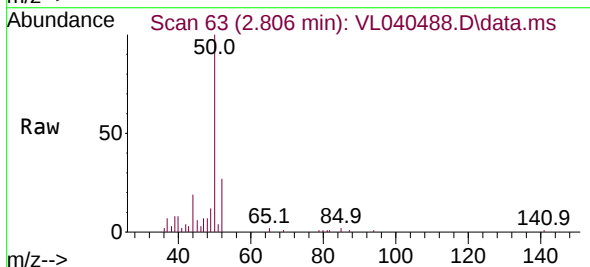
Manual Integrations
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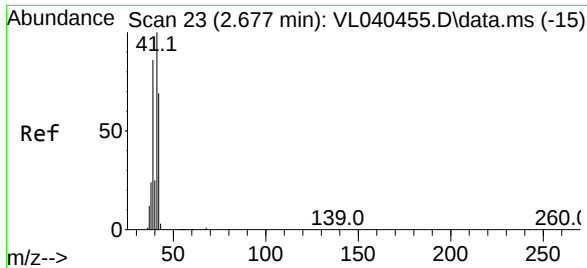
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#4
Chloromethane
Concen: 0.604 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.007 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Tgt Ion: 50 Resp: 35830
Ion Ratio Lower Upper
50 100
52 26.9 26.3 39.5





#9

Propene

Concen: 12.081 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL040488.D

Acq: 22 Jun 2023 16:43

Instrument :

MSVOA_L

ClientSampleId :

AI-1DUP

Tgt Ion: 41 Resp: 570462

Ion Ratio Lower Upper

41 100

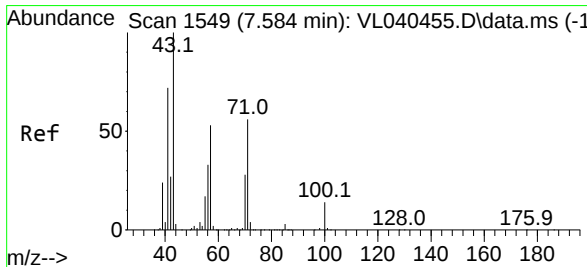
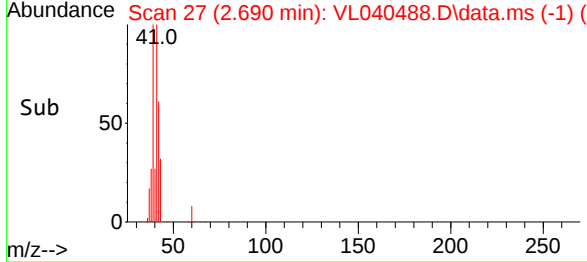
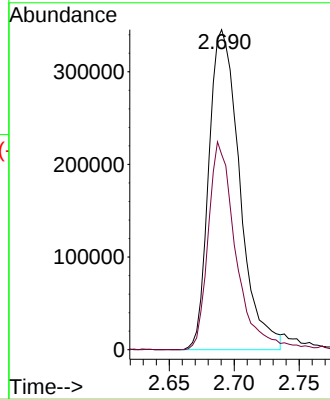
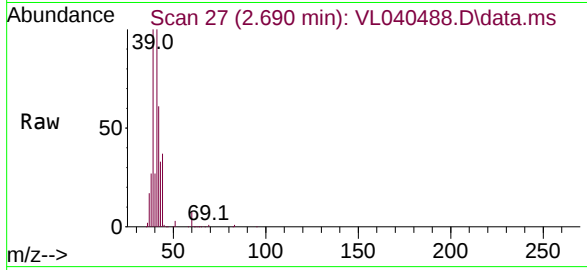
42 59.1 56.2 84.2

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Reviewed By :Semsettin Yesilyurt 06/26/2023

Supervised By :Mahesh Dadoda 06/27/2023



#10

Heptane

Concen: 0.672 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. -0.019 min

Lab File: VL040488.D

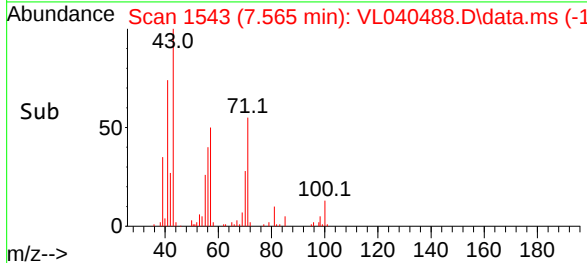
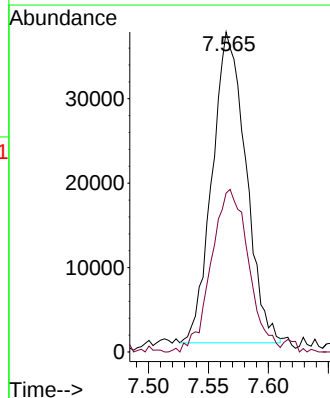
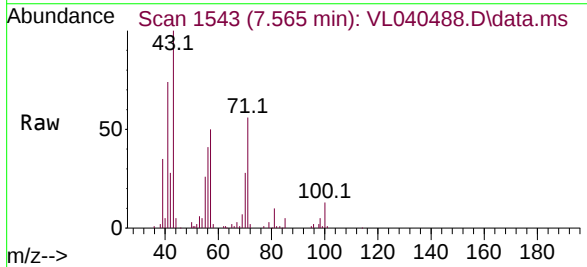
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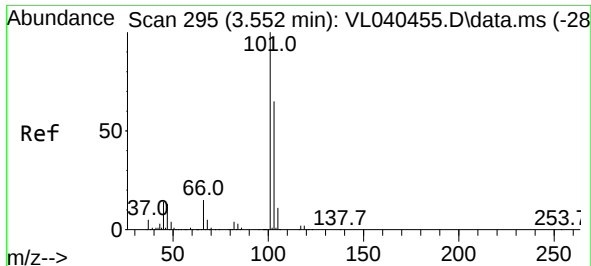
Tgt Ion: 43 Resp: 71840

Ion Ratio Lower Upper

43 100

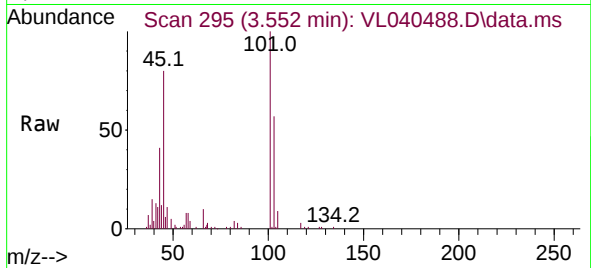
57 59.4 42.5 63.7





#11
 Trichlorofluoromethane
 Concen: 0.273 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. 0.000 min
 Lab File: VL040488.D
 Acq: 22 Jun 2023 16:43

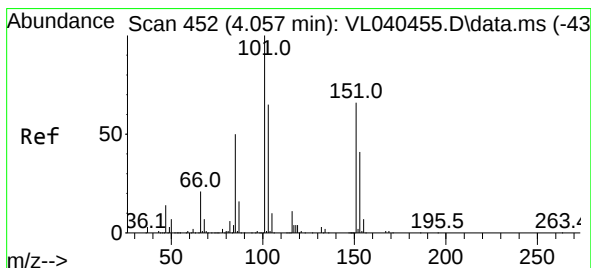
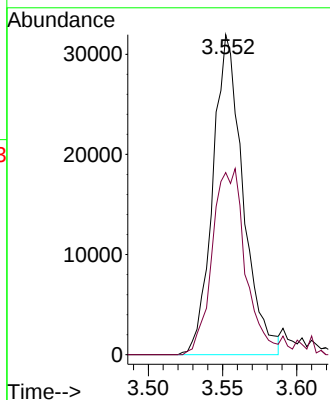
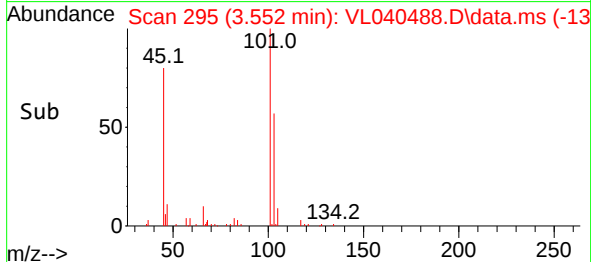
Instrument :
 MSVOA_L
 ClientSampleId :
 AI-1DUP



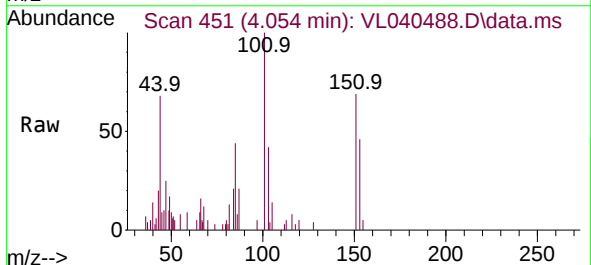
Tgt Ion:101 Resp: 4524
 Ion Ratio Lower Upper
 101 100
 103 56.9 51.7 77.5

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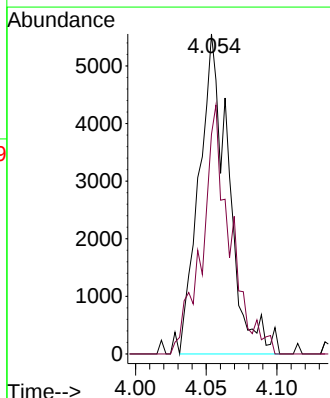
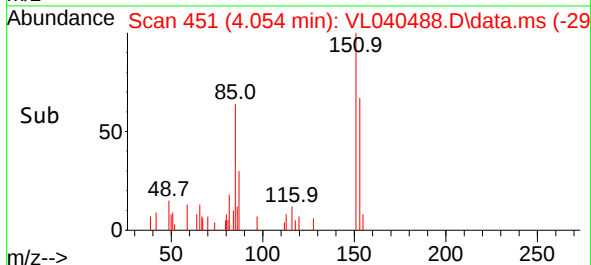
Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

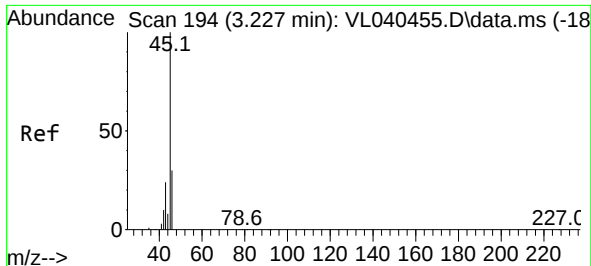


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.070 ppbv m
 RT: 4.054 min Scan# 451
 Delta R.T. -0.003 min
 Lab File: VL040488.D
 Acq: 22 Jun 2023 16:43



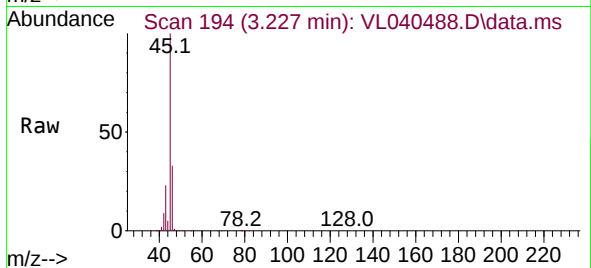
Tgt Ion:101 Resp: 8101
 Ion Ratio Lower Upper
 101 100
 151 74.0 54.3 81.5





#13
Ethanol
Concen: 92.841 ppbv
RT: 3.227 min Scan# 194
Delta R.T. 0.000 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

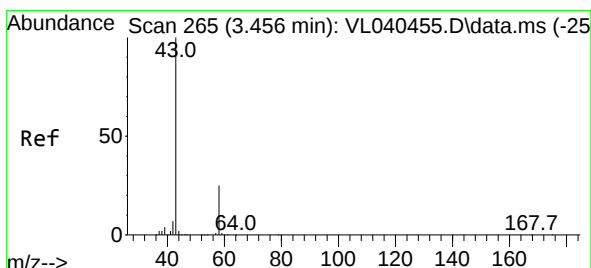
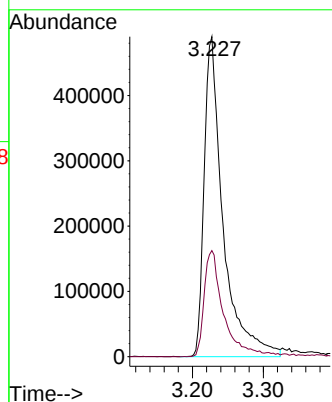
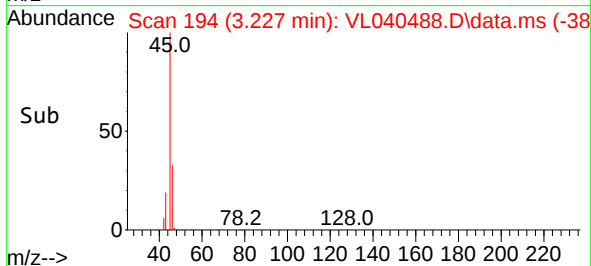
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



Tgt Ion: 45 Resp: 907860
Ion Ratio Lower Upper
45 100
46 34.8 14.5 58.1

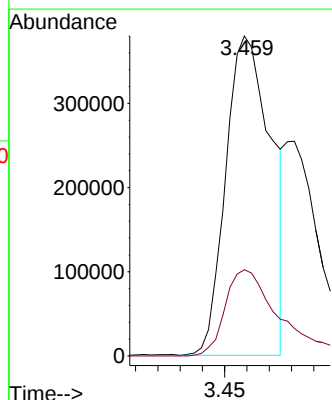
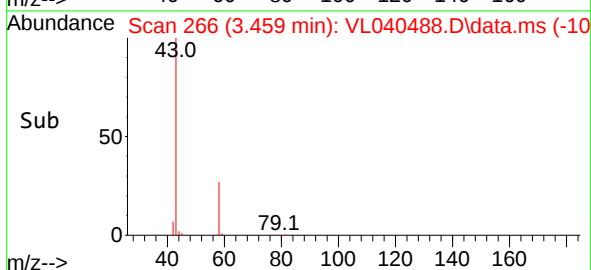
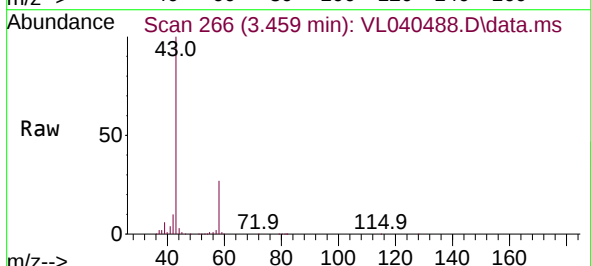
Manual Integrations
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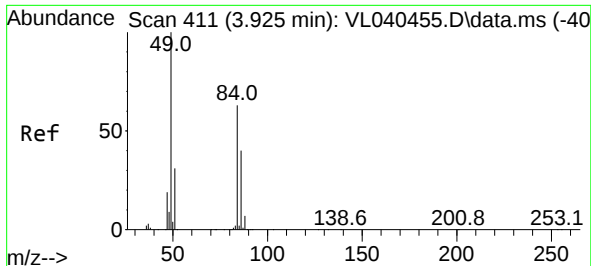
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#15
Acetone
Concen: 4.756 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.003 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

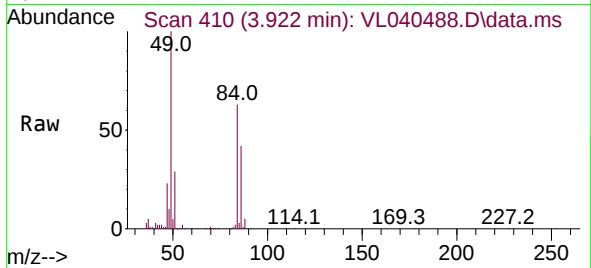
Tgt Ion: 43 Resp: 536292
Ion Ratio Lower Upper
43 100
58 34.1 21.6 32.4#





#20
Methylene Chloride
Concen: 3.377 ppbv
RT: 3.922 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

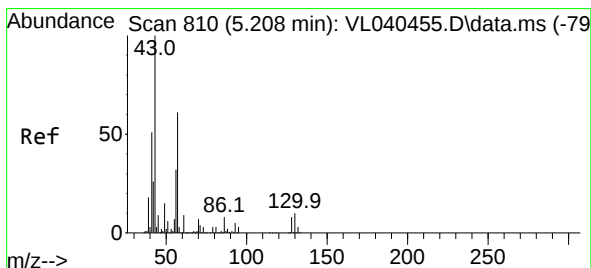
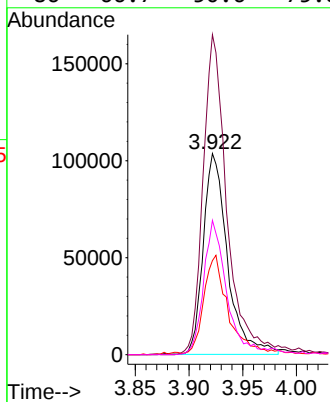
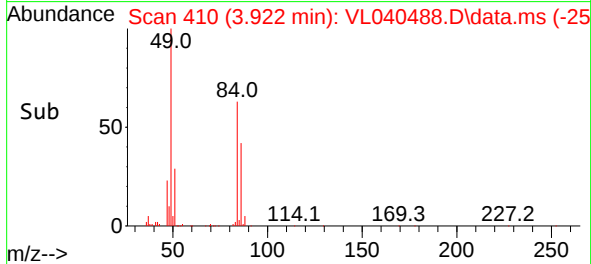
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



Tgt Ion: 84 Resp: 16253
Ion Ratio Lower Upper
84 100
49 158.9 126.2 189.2
51 45.8 38.7 58.1
86 66.7 50.6 75.8

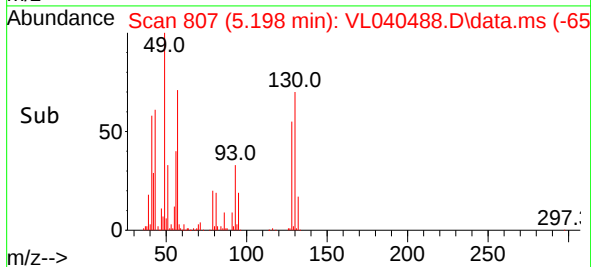
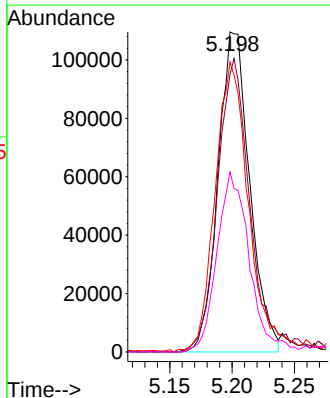
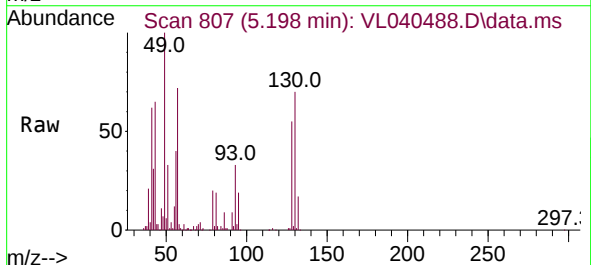
Manual Integrations
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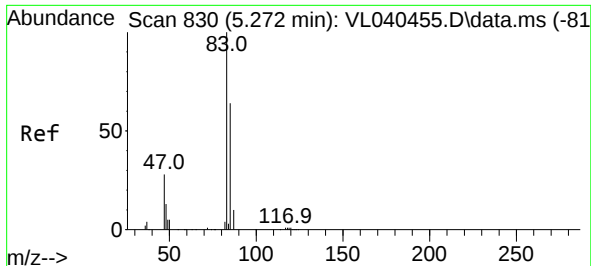
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#26
Hexane
Concen: 2.006 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.010 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Tgt Ion: 57 Resp: 194079
Ion Ratio Lower Upper
57 100
41 97.7 73.0 109.6
43 100.1 177.5 266.3#
56 59.4 43.6 65.4





#29

Chloroform

Concen: 0.073 ppbv m

RT: 5.259 min Scan# 81

Delta R.T. -0.013 min

Lab File: VL040488.D

Acq: 22 Jun 2023 16:43

Instrument :

MSVOA_L

ClientSampleId :

AI-1DUP

Tgt Ion: 83 Resp: 1205

Ion Ratio Lower Upper

83 100

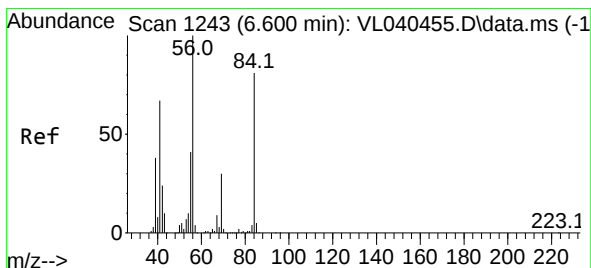
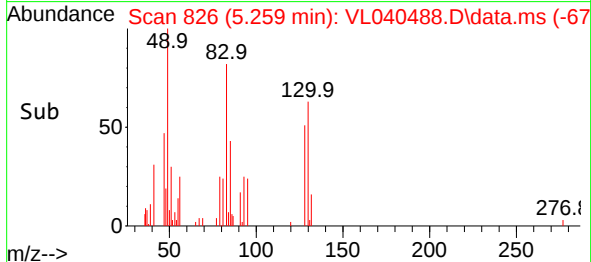
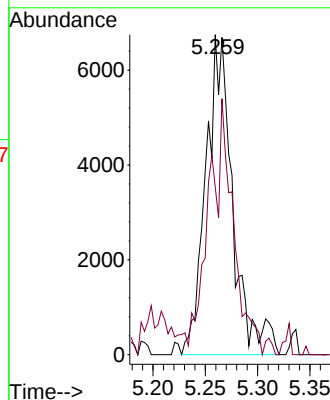
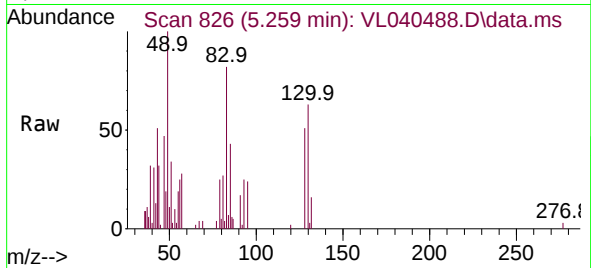
85 52.4 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023

Supervised By :Mahesh Dadoda 06/27/2023



#30

Cyclohexane

Concen: 0.468 ppbv m

RT: 6.594 min Scan# 1241

Delta R.T. -0.006 min

Lab File: VL040488.D

Acq: 22 Jun 2023 16:43

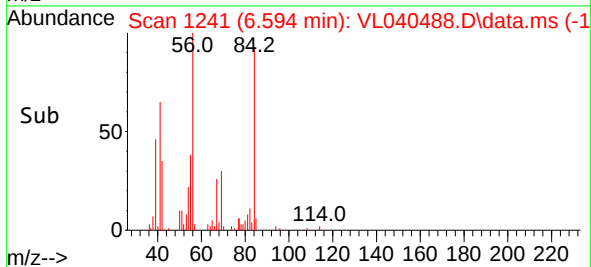
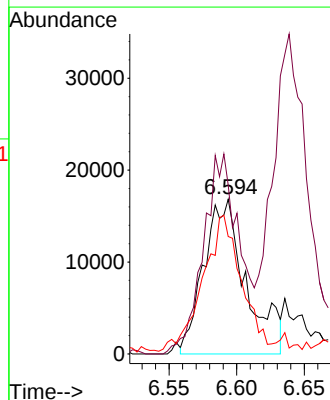
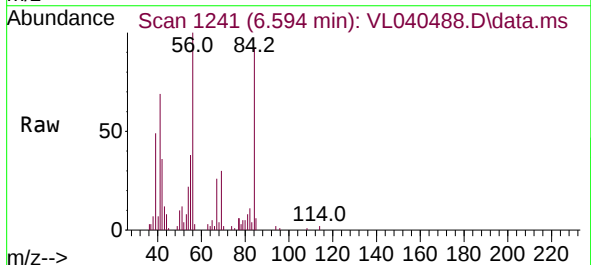
Tgt Ion: 84 Resp: 36490

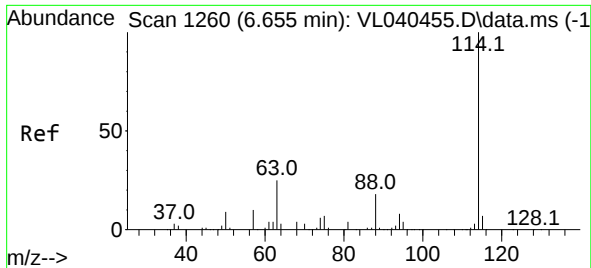
Ion Ratio Lower Upper

84 100

56 0.0 106.0 159.0#

41 0.0 66.8 100.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. -0.016 min

Lab File: VL040488.D

Acq: 22 Jun 2023 16:43

Instrument :

MSVOA_L

ClientSampleId :

AI-1DUP

Tgt Ion:114 Resp: 2443904

Ion Ratio Lower Upper

114 100

63 25.4 21.0 31.6

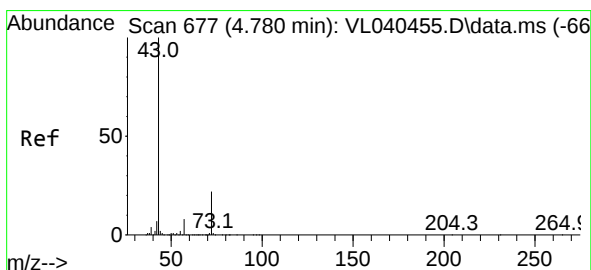
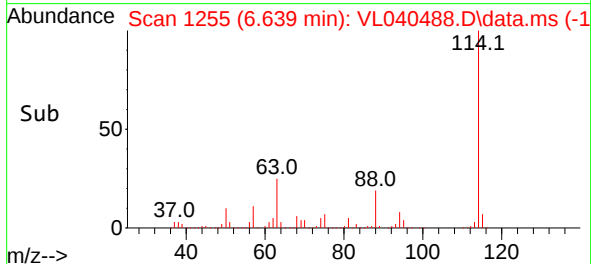
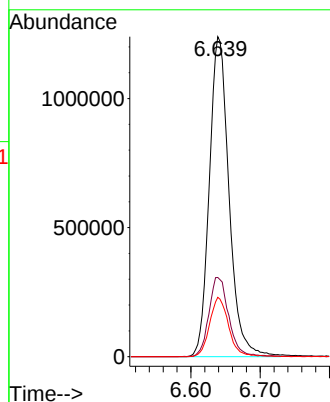
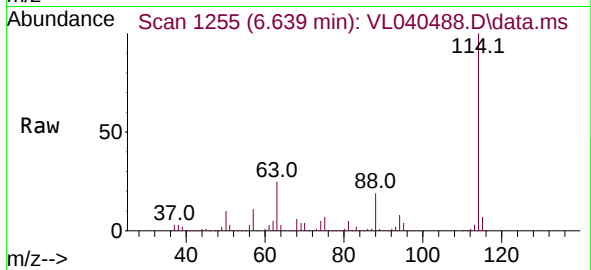
88 18.0 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023

Supervised By :Mahesh Dadoda 06/27/2023



#34

2-Butanone

Concen: 0.564 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.000 min

Lab File: VL040488.D

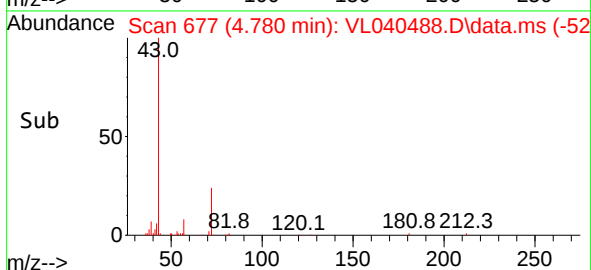
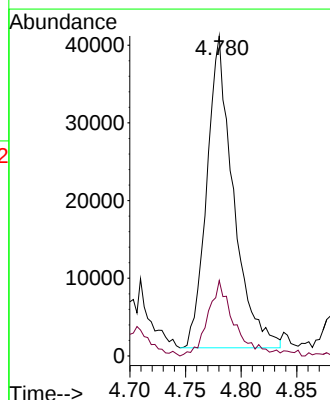
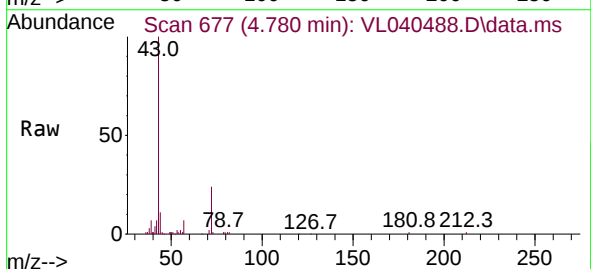
Acq: 22 Jun 2023 16:43

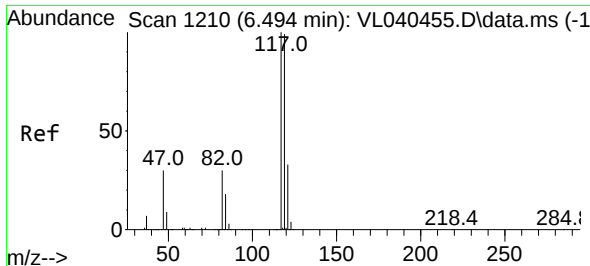
Tgt Ion: 43 Resp: 66427

Ion Ratio Lower Upper

43 100

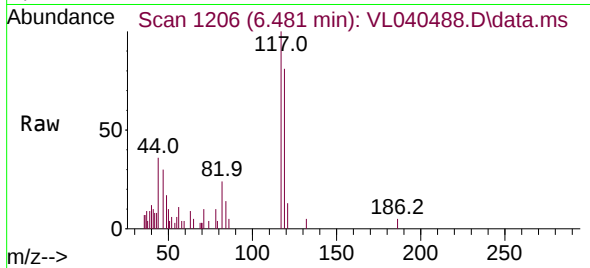
72 24.9 18.1 27.1





#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 6.481 min Scan# 1167
Delta R.T. -0.013 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

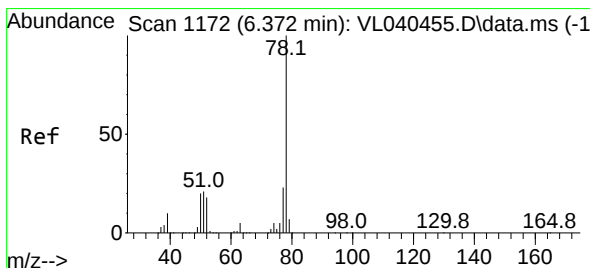
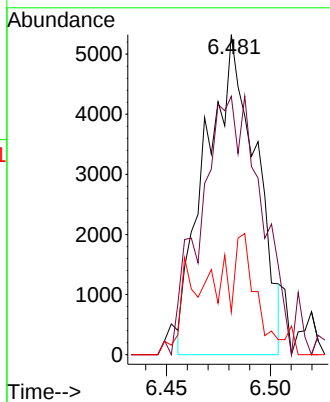
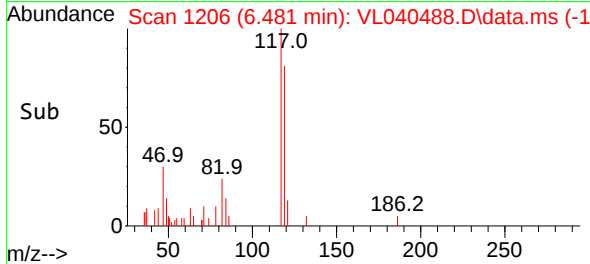
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



Tgt Ion: 117 Resp: 902
Ion Ratio Lower Upper
117 100
119 70.2 79.1 118.7
121 9.3 26.0 39.0

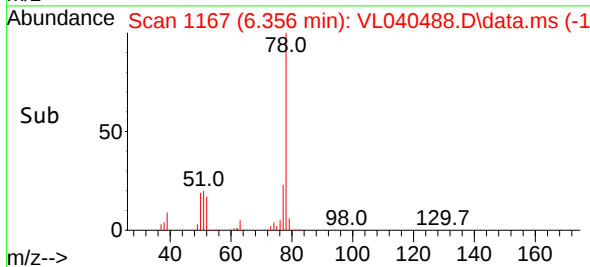
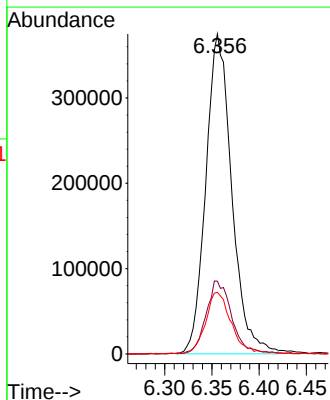
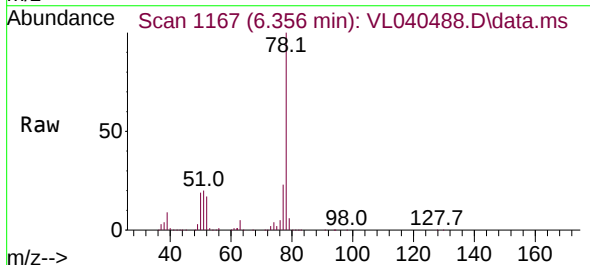
Manual Integrations
APPROVED

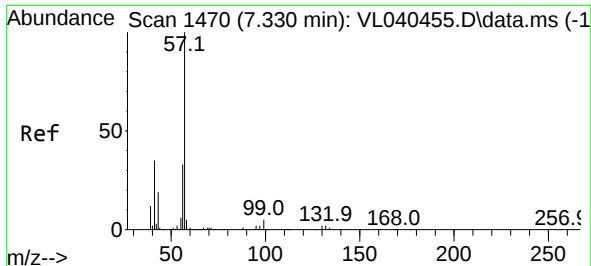
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#36
Benzene
Concen: 3.679 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

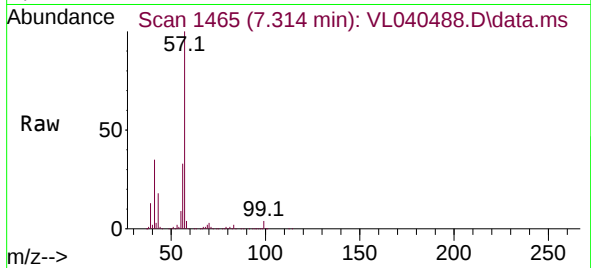
Tgt Ion: 78 Resp: 715112
Ion Ratio Lower Upper
78 100
77 22.4 18.5 27.7
50 19.1 16.1 24.1





#44
2,2,4-Trimethylpentane
Concen: 2.754 ppbv
RT: 7.314 min Scan# 1470
Delta R.T. -0.016 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

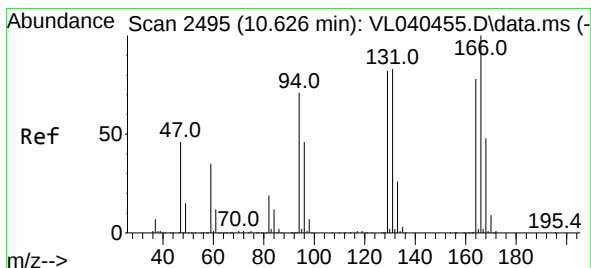
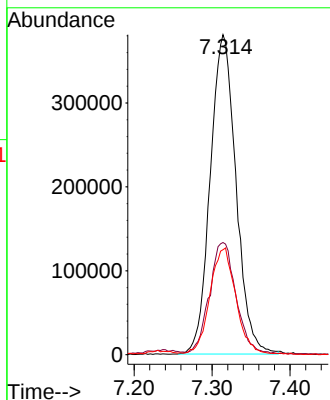
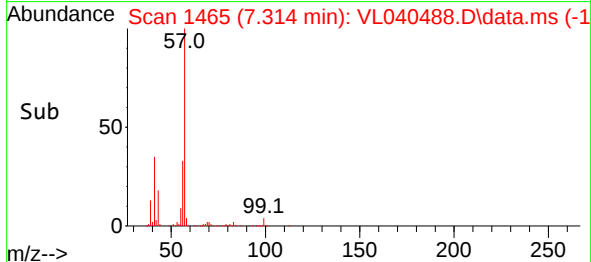
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



Tgt Ion: 57 Resp: 874980
Ion Ratio Lower Upper
57 100
41 36.6 27.8 41.8
56 34.4 25.3 37.9

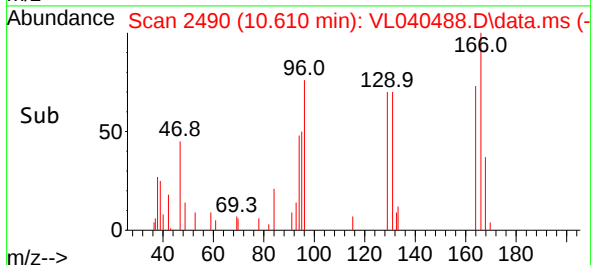
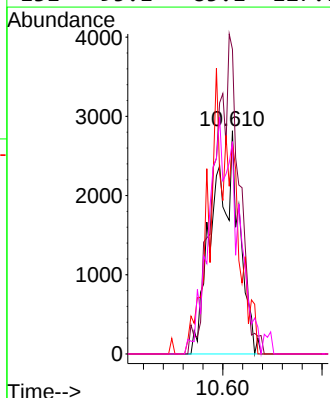
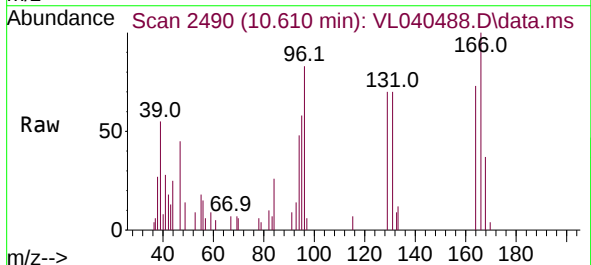
Manual Integrations
APPROVED

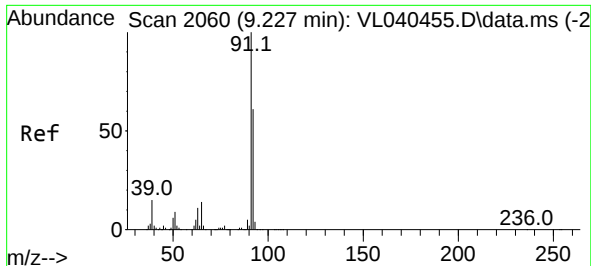
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#52
Tetrachloroethene
Concen: 0.084 ppbv m
RT: 10.610 min Scan# 2490
Delta R.T. -0.016 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

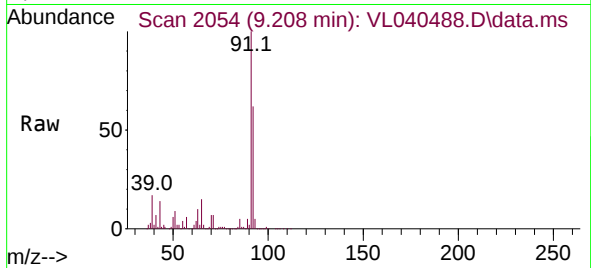
Tgt Ion:164 Resp: 5111
Ion Ratio Lower Upper
164 100
166 136.5 102.7 154.1
129 94.9 84.6 126.8
131 95.1 85.1 127.7





#53
Toluene
Concen: 6.814 ppbv
RT: 9.208 min Scan# 2060
Delta R.T. -0.019 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

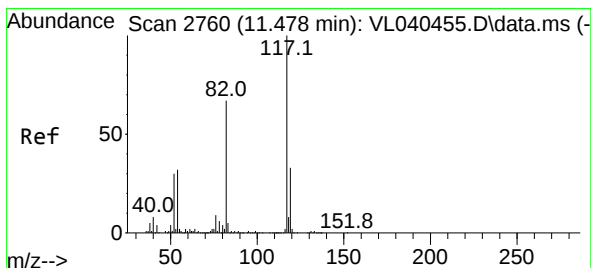
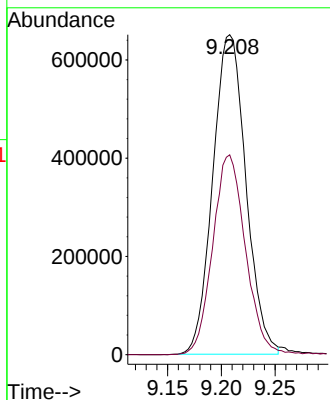
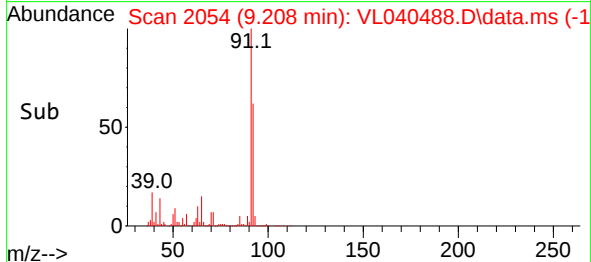
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



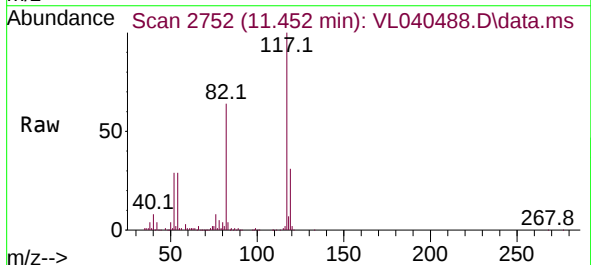
Tgt Ion: 91 Resp: 1395098
Ion Ratio Lower Upper
91 100
92 62.0 49.1 73.7

Manual Integrations
APPROVED

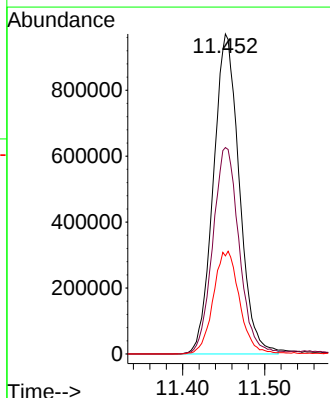
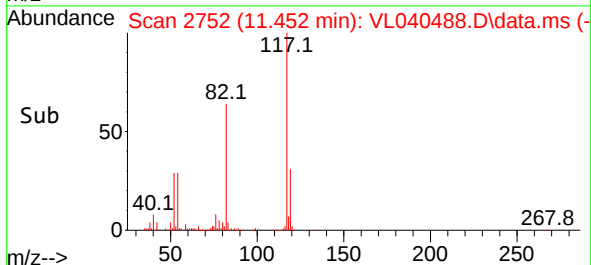
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

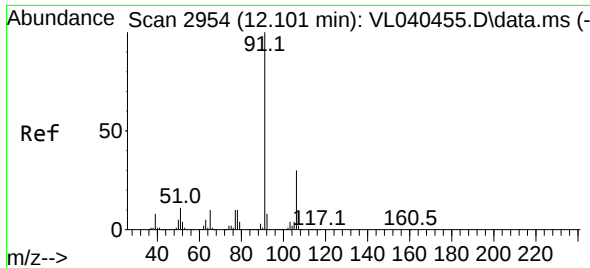


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.026 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43



Tgt Ion:117 Resp: 2131515
Ion Ratio Lower Upper
117 100
82 65.8 53.0 79.4
119 32.8 24.4 36.6





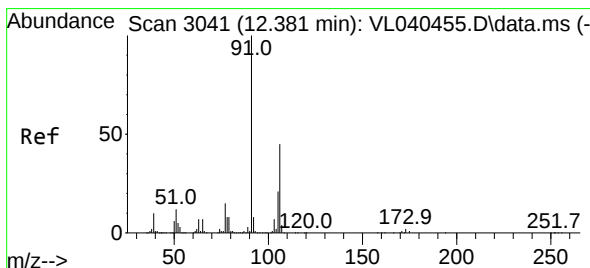
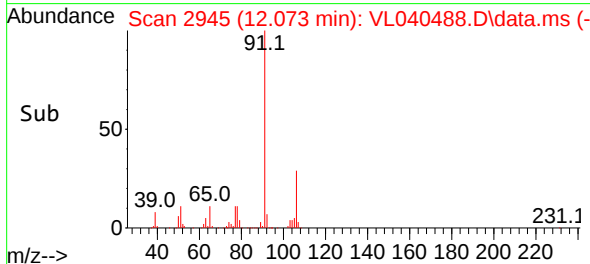
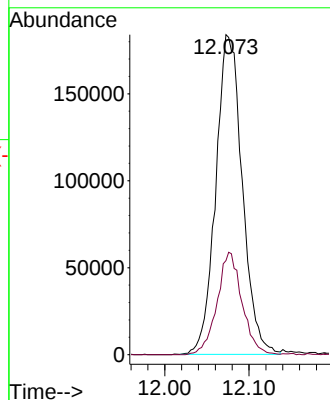
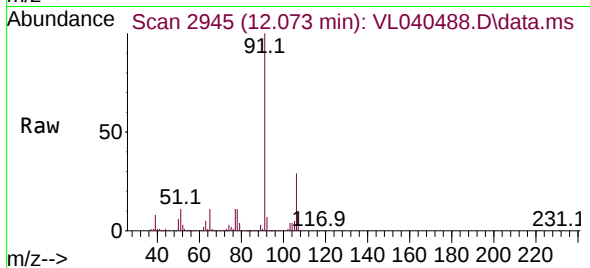
#58
Ethyl Benzene
Concen: 1.552 ppbv
RT: 12.073 min Scan# 2954
Delta R.T. -0.029 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP

Tgt Ion: 91 Resp: 400733
Ion Ratio Lower Upper
91 100
106 29.4 23.7 35.5

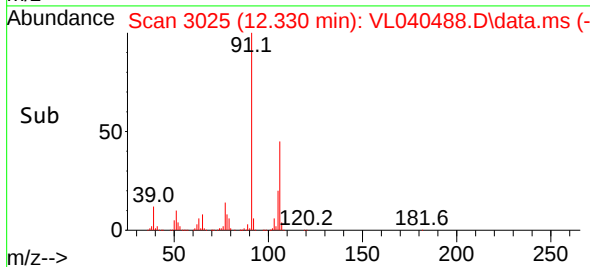
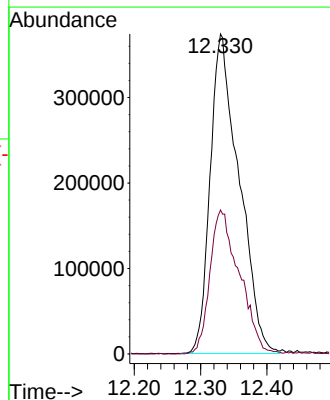
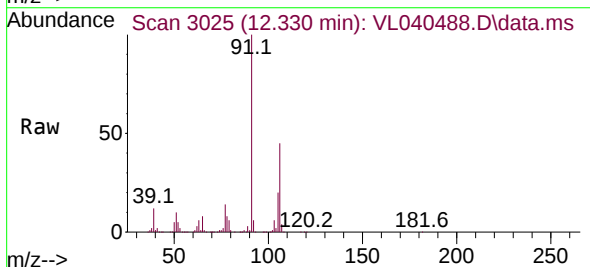
Manual Integrations
APPROVED

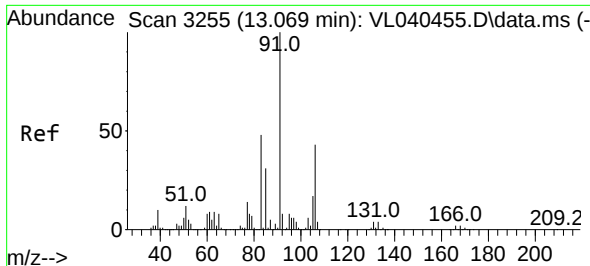
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#59
m/p-Xylene
Concen: 4.766 ppbv
RT: 12.330 min Scan# 3025
Delta R.T. -0.051 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Tgt Ion: 91 Resp: 1131135
Ion Ratio Lower Upper
91 100
106 46.5 34.6 52.0





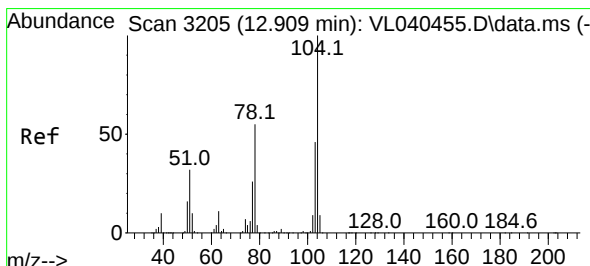
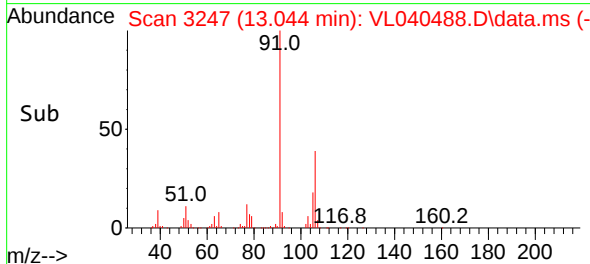
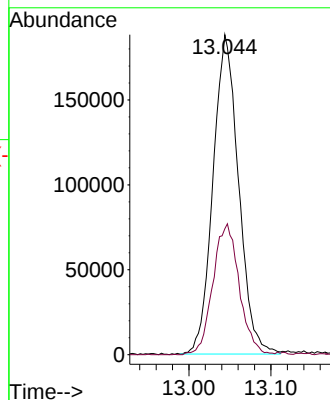
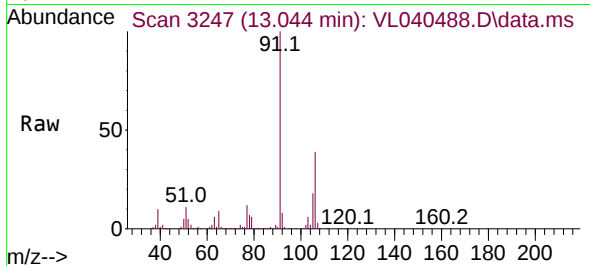
#60
o-Xylene
Concen: 1.811 ppbv
RT: 13.044 min Scan# 3197
Delta R.T. -0.026 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP

Tgt Ion: 91 Resp: 407704
Ion Ratio Lower Upper
91 100
106 42.7 22.1 66.1

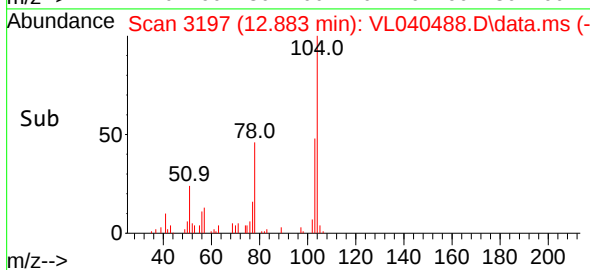
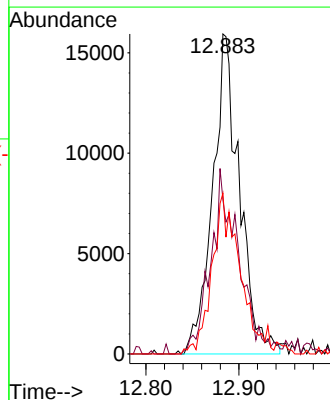
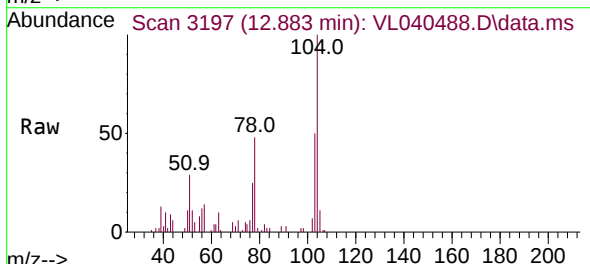
Manual Integrations
APPROVED

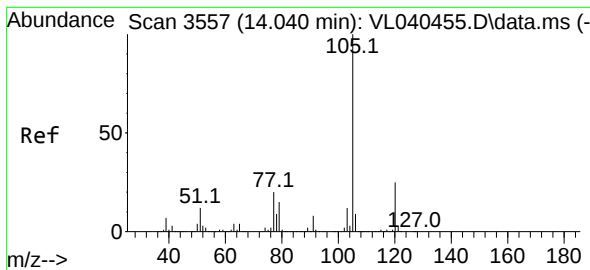
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#61
Styrene
Concen: 0.330 ppbv m
RT: 12.883 min Scan# 3197
Delta R.T. -0.026 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

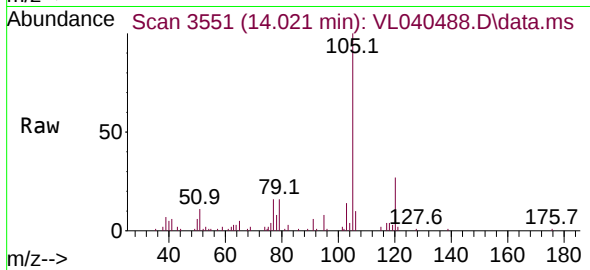
Tgt Ion:104 Resp: 31936
Ion Ratio Lower Upper
104 100
78 63.2 43.1 64.7
103 53.9 37.1 55.7





#62
Isopropylbenzene
Concen: 0.163 ppbv m
RT: 14.021 min Scan# 3551
Delta R.T. -0.019 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

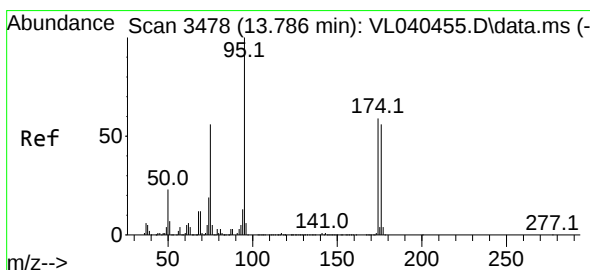
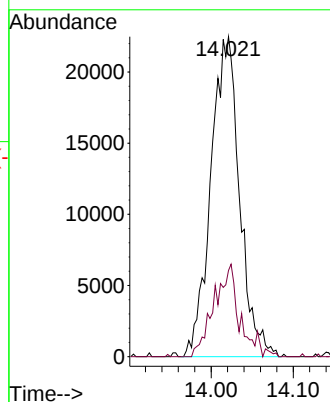
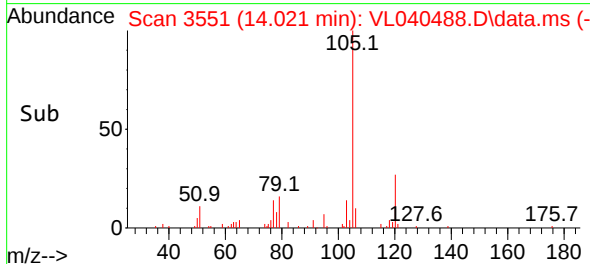
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



Tgt Ion:105 Resp: 54649
Ion Ratio Lower Upper
105 100
120 0.0 20.2 30.4

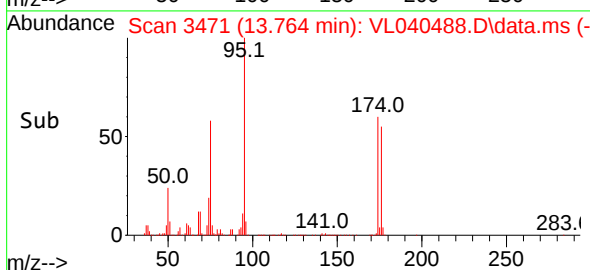
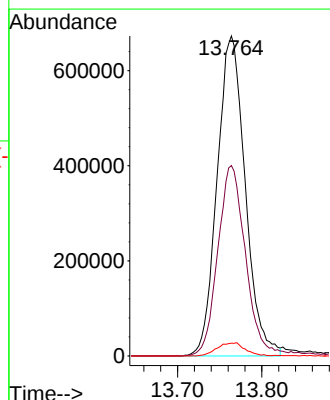
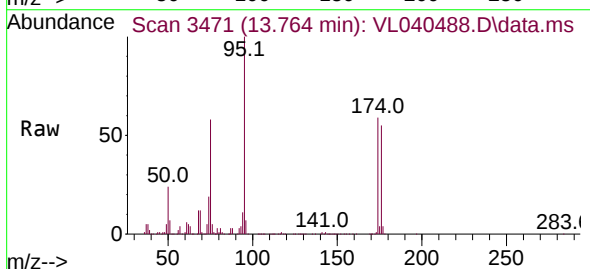
Manual Integrations
APPROVED

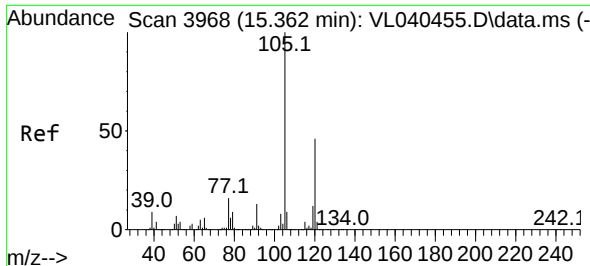
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 8.840 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.022 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

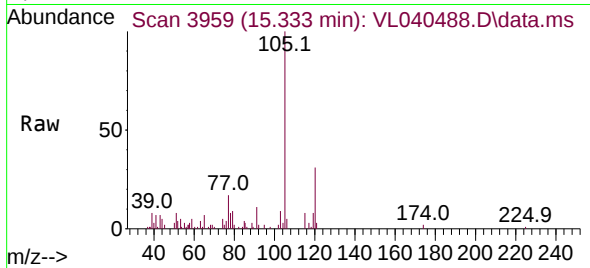
Tgt Ion: 95 Resp: 1555121
Ion Ratio Lower Upper
95 100
174 60.3 47.7 71.5
175 4.3 3.5 5.3





#73
1,3,5-Trimethylbenzene
Concen: 0.260 ppbv m
RT: 15.333 min Scan# 3968
Delta R.T. -0.029 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43

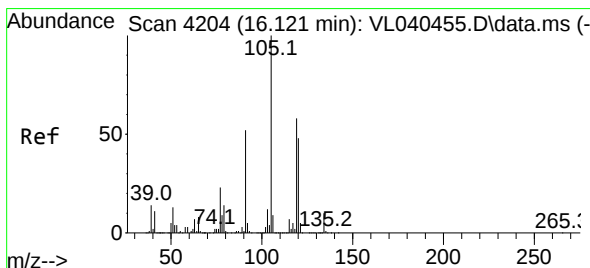
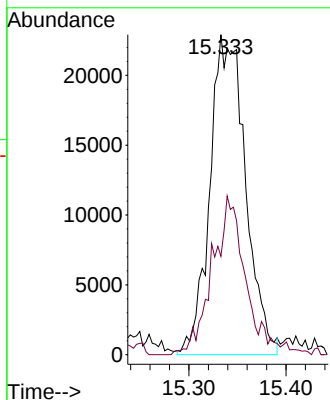
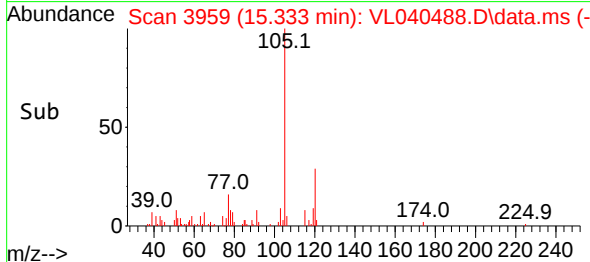
Instrument :
MSVOA_L
ClientSampleId :
AI-1DUP



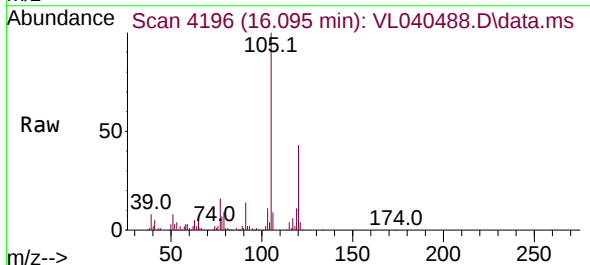
Tgt Ion:105 Resp: 58258
Ion Ratio Lower Upper
105 100
120 30.7 36.4 54.6

Manual Integrations
APPROVED

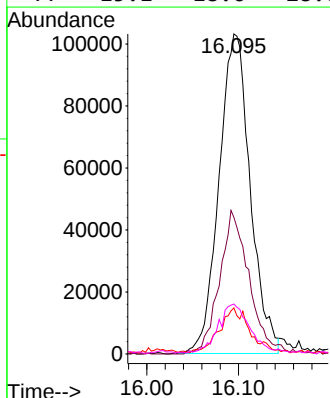
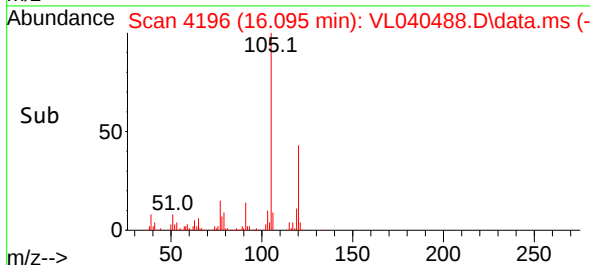
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

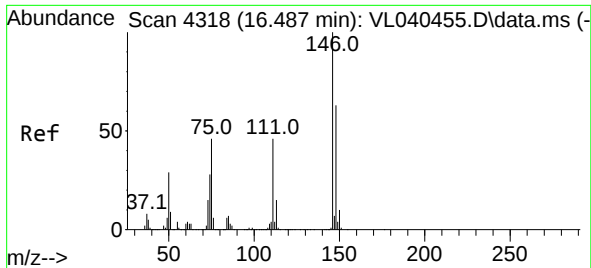


#74
1,2,4-Trimethylbenzene
Concen: 0.924 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. -0.026 min
Lab File: VL040488.D
Acq: 22 Jun 2023 16:43



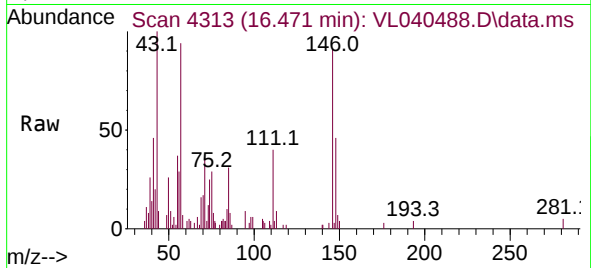
Tgt Ion:105 Resp: 243543
Ion Ratio Lower Upper
105 100
120 42.8 38.4 57.6
91 13.9 41.3 61.9#
77 15.1 18.6 28.0#





#76
 1,4-Dichlorobenzene
 Concen: 0.119 ppbv m
 RT: 16.471 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL040488.D
 Acq: 22 Jun 2023 16:43

Instrument :
 MSVOA_L
 ClientSampleId :
 AI-1DUP



Tgt Ion:146 Resp: 17095
 Ion Ratio Lower Upper
 146 100
 111 59.5 23.8 71.5
 148 0.0 32.9 98.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

