

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
 Data File : VL041639.D
 Acq On : 10 Oct 2024 12:49
 Operator : SY/MD
 Sample : P4339-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
 Supervised By :Mahesh Dadoda 10/14/2024

Quant Time: Oct 11 05:39:29 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1204174	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3304761	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.462	117	2985899	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2257858	10.272	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%
Target Compounds						Qvalue
9) Propene	2.671	41	88303	1.433	ppbv	97
10) Heptane	7.568	43	51095	0.354	ppbv	94
13) Ethanol	3.227	45	47235m	10.198	ppbv	
15) Acetone	3.449	43	1123717	7.433	ppbv	93
16) 1,3-Butadiene	2.951	39	115663	1.573	ppbv #	19
17) tert-Butyl alcohol	3.867	59	21680	0.163	ppbv #	89
19) Isopropyl Alcohol	3.568	45	32051	0.414	ppbv #	92
20) Methylene Chloride	3.912	84	21466	0.378	ppbv #	84
26) Hexane	5.198	57	138879	1.227	ppbv #	37
27) Carbon Disulfide	4.108	76	200762	1.669	ppbv #	92
30) Cyclohexane	6.587	84	26789m	0.307	ppbv	
32) 1,1,1-Trichloroethane	5.992	97	19016m	0.115	ppbv	
34) 2-Butanone	4.771	43	1960022	12.438	ppbv	99
35) Carbon Tetrachloride	6.481	117	179658	1.108	ppbv	92
36) Benzene	6.356	78	65006	0.283	ppbv	96
44) 2,2,4-Trimethylpentane	7.317	57	50556	0.127	ppbv #	48
51) 2-Hexanone	9.552	43	192928	1.048	ppbv #	98
52) Tetrachloroethene	10.610	164	113081	1.361	ppbv	97
53) Toluene	9.214	91	405313	1.664	ppbv	100
58) Ethyl Benzene	12.082	91	33529m	0.105	ppbv	
59) m/p-Xylene	12.339	91	128080	0.450	ppbv	98
60) o-Xylene	13.053	91	56557	0.207	ppbv	95
74) 1,2,4-Trimethylbenzene	16.101	105	111568m	0.339	ppbv	

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

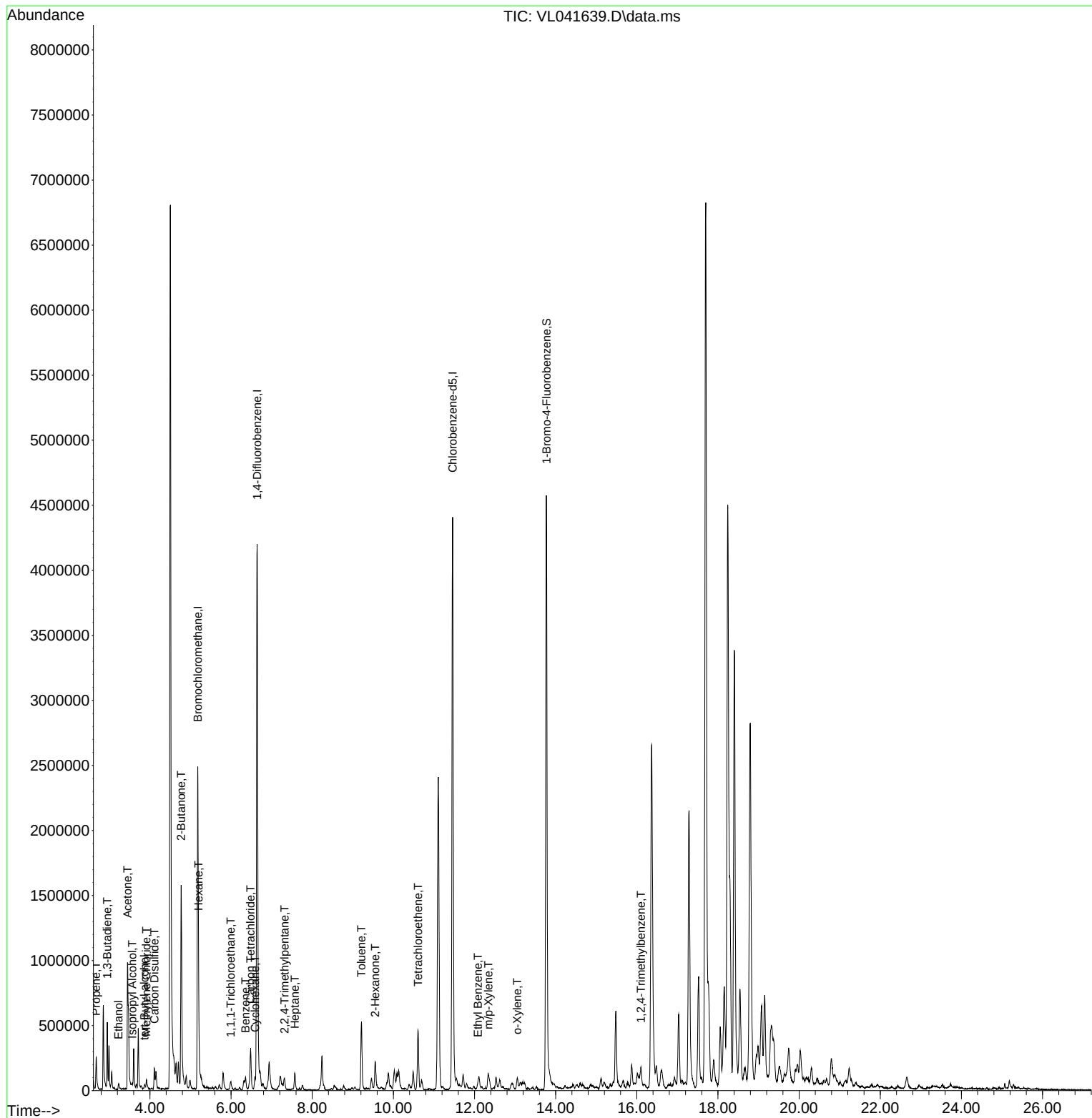
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
Data File : VL041639.D
Acq On : 10 Oct 2024 12:49
Operator : SY/MD
Sample : P4339-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

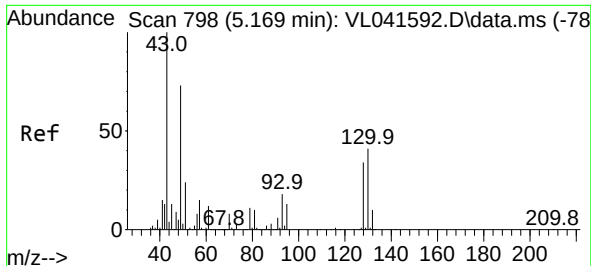
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Oct 11 05:39:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

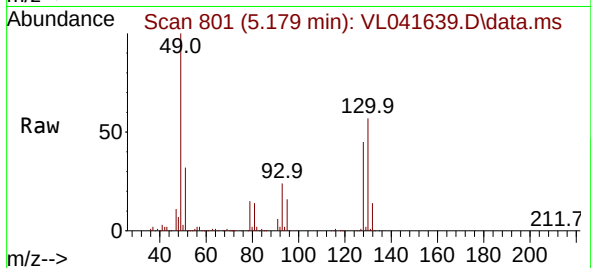
Reviewed By : Semsettin Yesilyurt 10/11/2024
Supervised By : Mahesh Dadoda 10/14/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

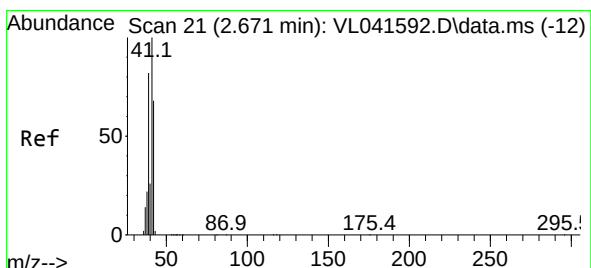
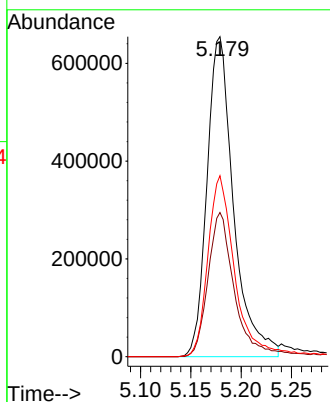
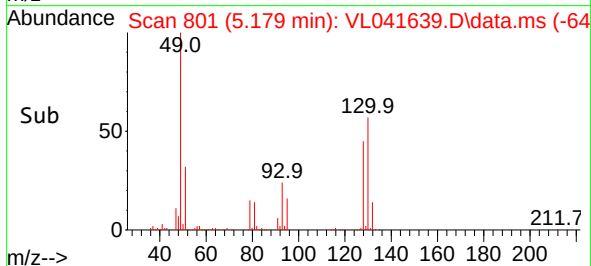
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 1204174
Ion Ratio Lower Upper
49 100
128 46.5 23.8 71.5
130 58.9 30.4 91.3

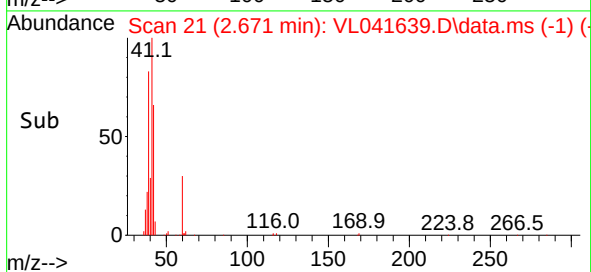
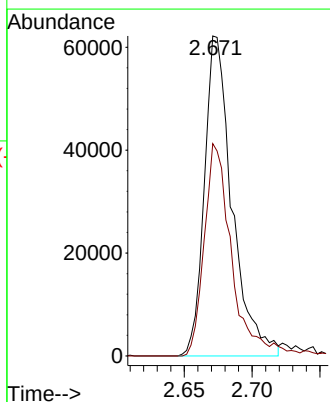
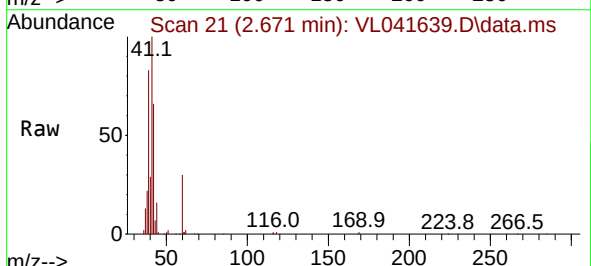
Manual Integrations
APPROVED

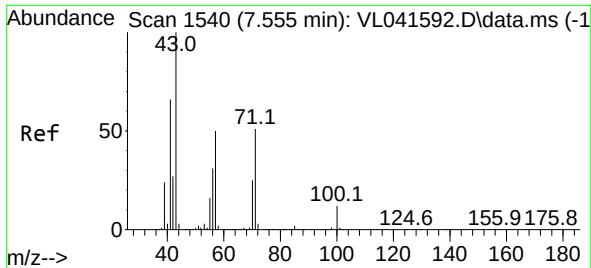
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#9
Propene
Concen: 1.433 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

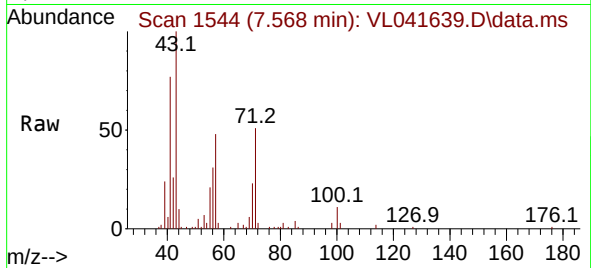
Tgt Ion: 41 Resp: 88303
Ion Ratio Lower Upper
41 100
42 66.9 55.2 82.8





#10
Heptane
Concen: 0.354 ppbv
RT: 7.568 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

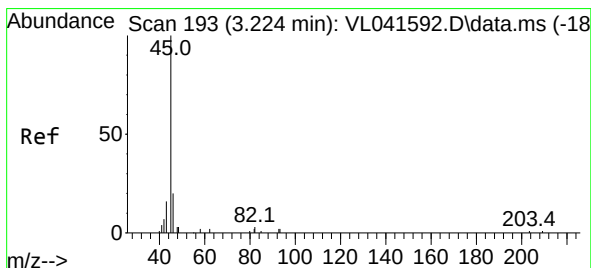
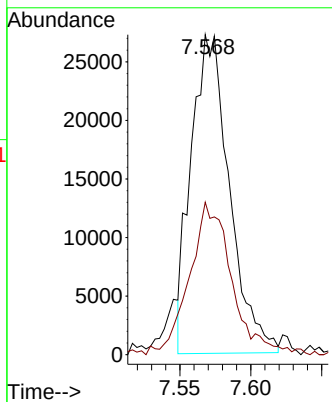
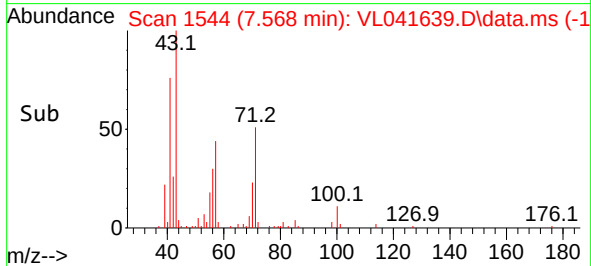
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 5109
Ion Ratio Lower Upper
43 100
57 53.7 39.8 59.8

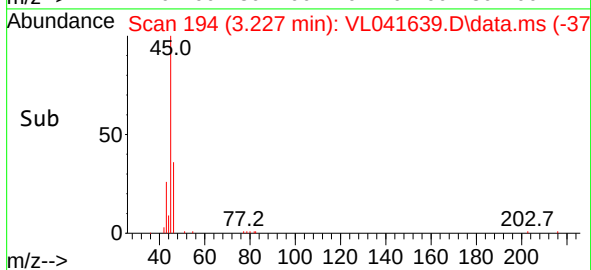
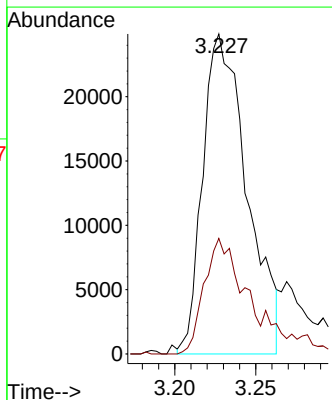
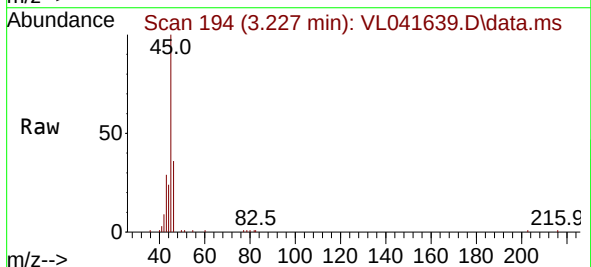
Manual Integrations
APPROVED

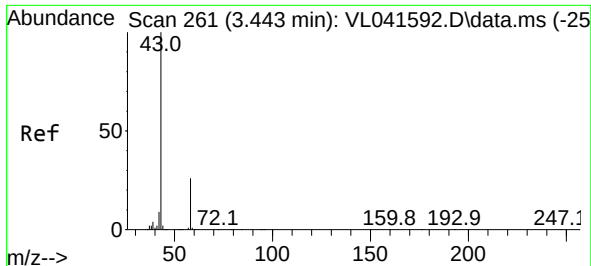
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#13
Ethanol
Concen: 10.198 ppbv m
RT: 3.227 min Scan# 194
Delta R.T. 0.003 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

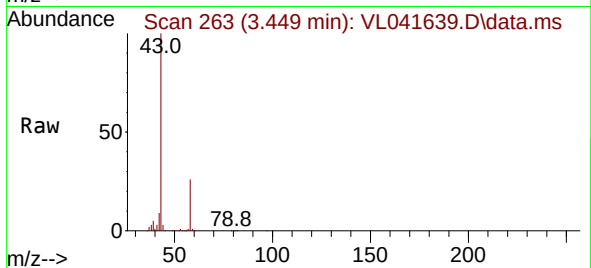
Tgt Ion: 45 Resp: 47235
Ion Ratio Lower Upper
45 100
46 40.8 15.2 60.8





#15
Acetone
Concen: 7.433 ppbv
RT: 3.449 min Scan# 20
Delta R.T. 0.007 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

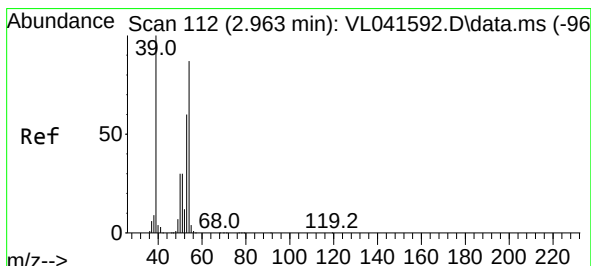
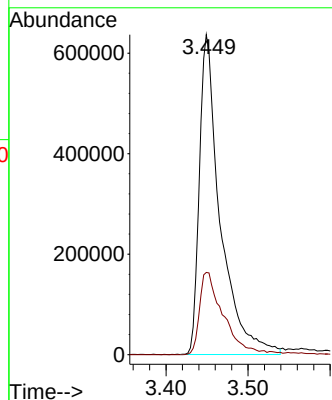
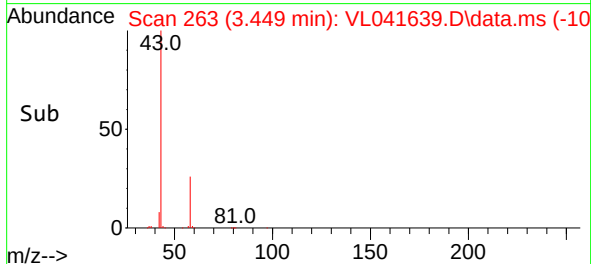
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 112371
Ion Ratio Lower Upper
43 100
58 30.3 21.5 32.3

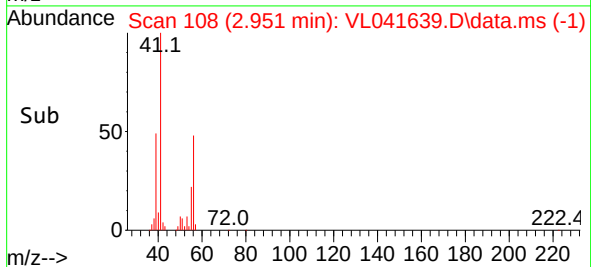
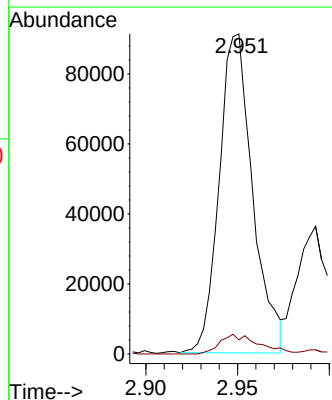
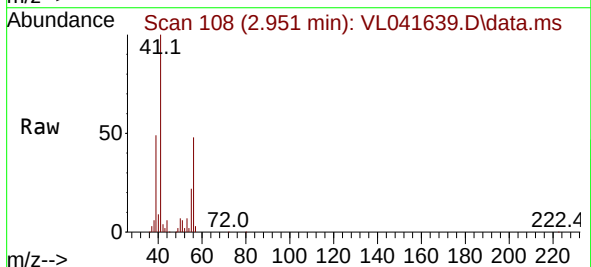
Manual Integrations
APPROVED

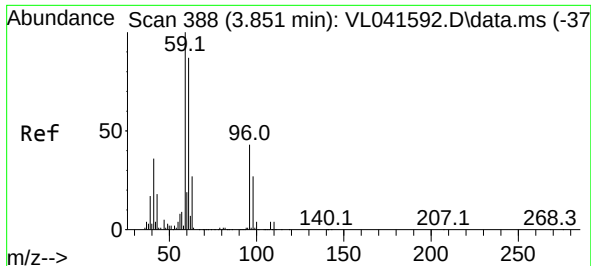
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#16
1,3-Butadiene
Concen: 1.573 ppbv
RT: 2.951 min Scan# 108
Delta R.T. -0.013 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Tgt Ion: 39 Resp: 115663
Ion Ratio Lower Upper
39 100
54 8.2 62.9 94.3#





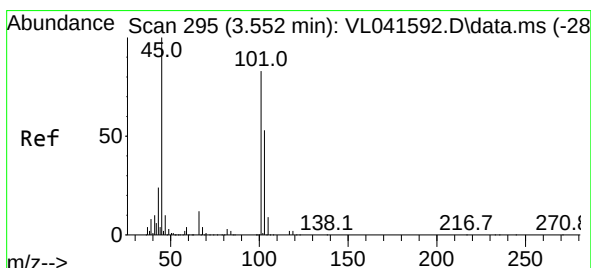
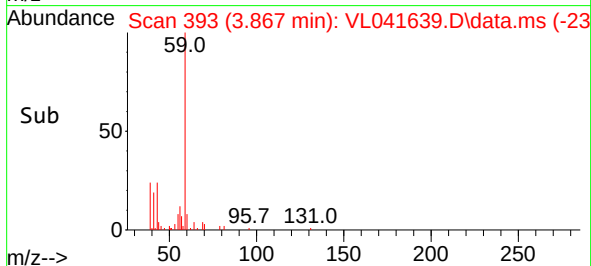
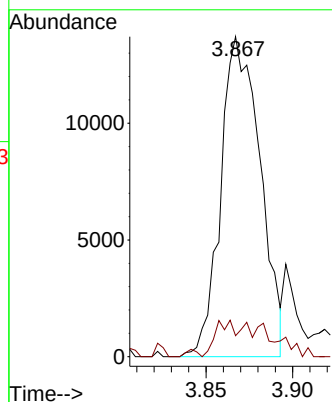
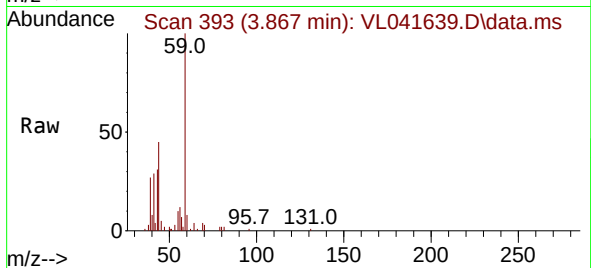
#17
tert-Butyl alcohol
Concen: 0.163 ppbv
RT: 3.867 min Scan# 300
Delta R.T. 0.016 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 59 Resp: 21680
Ion Ratio Lower Upper
59 100
57 15.2 8.7 13.1

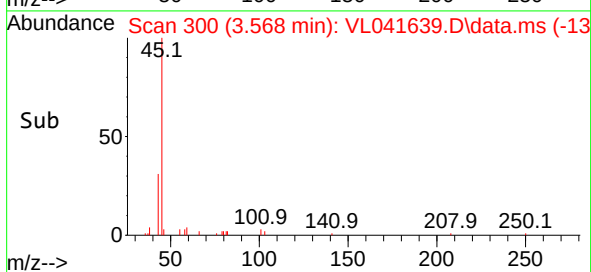
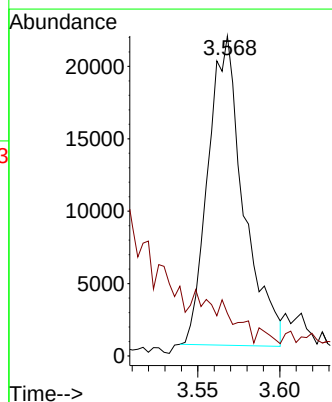
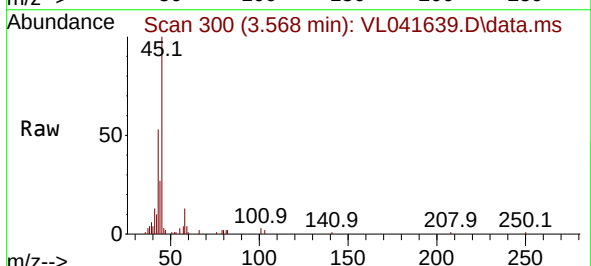
Manual Integrations
APPROVED

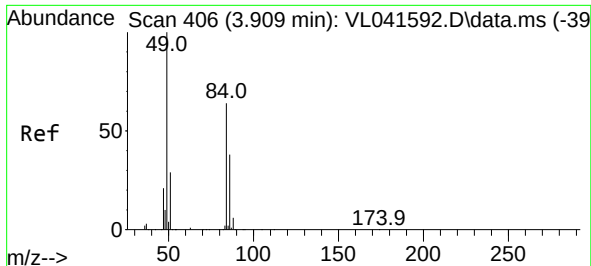
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#19
Isopropyl Alcohol
Concen: 0.414 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.016 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Tgt Ion: 45 Resp: 32051
Ion Ratio Lower Upper
45 100
58 0.0 2.1 3.1





#20

Methylene Chloride

Concen: 0.378 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.003 min

Lab File: VL041639.D

Acq: 10 Oct 2024 12:49

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 84 Resp: 21460

Ion Ratio Lower Upper

84 100

49 122.4 124.3 186.5

51 43.4 36.3 54.5

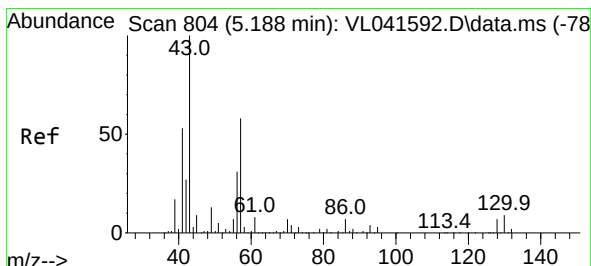
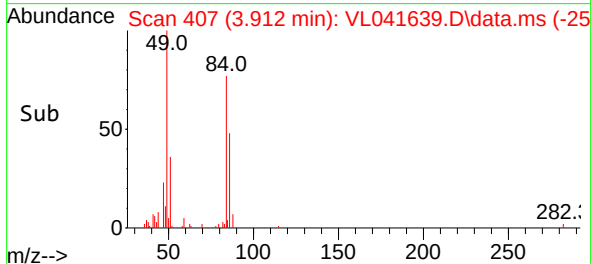
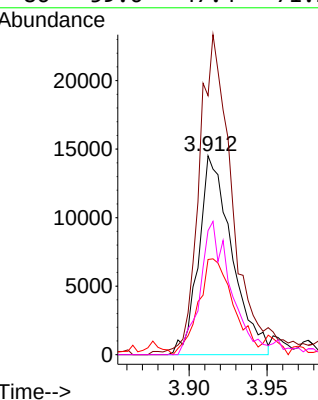
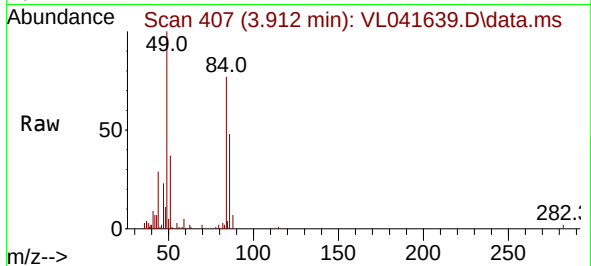
86 59.6 47.4 71.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024

Supervised By :Mahesh Dadoda 10/14/2024



#26

Hexane

Concen: 1.227 ppbv

RT: 5.198 min Scan# 807

Delta R.T. 0.010 min

Lab File: VL041639.D

Acq: 10 Oct 2024 12:49

Tgt Ion: 57 Resp: 138879

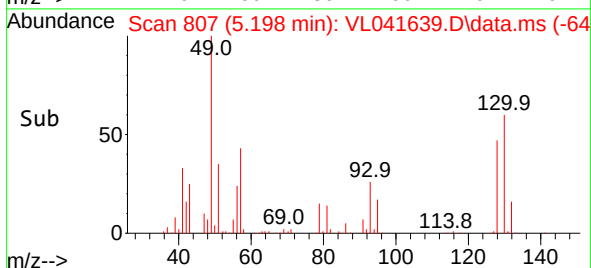
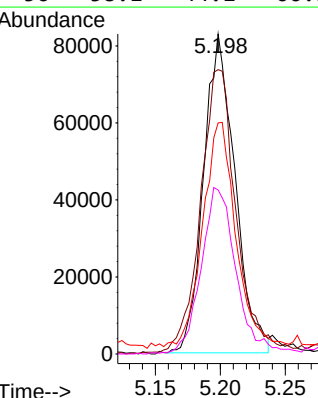
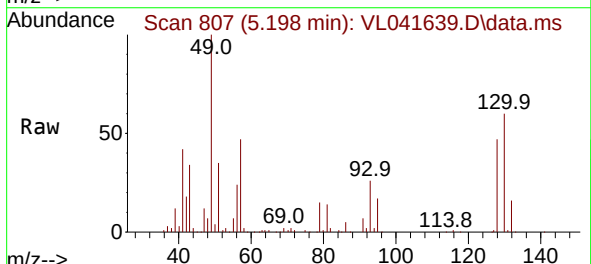
Ion Ratio Lower Upper

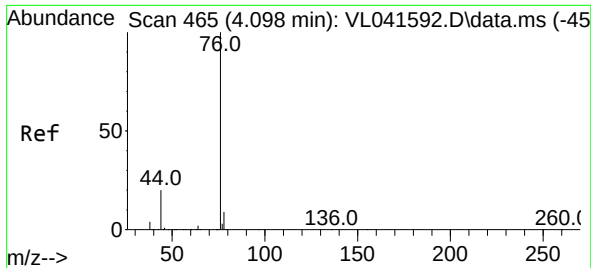
57 100

41 102.2 75.7 113.5

43 78.3 198.5 297.7#

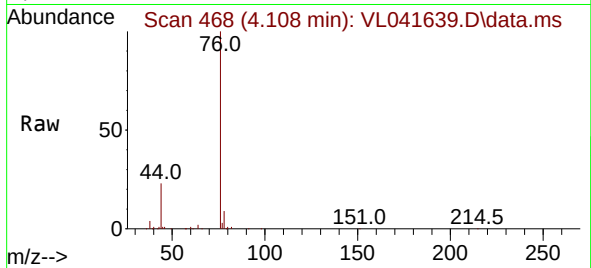
56 58.1 44.1 66.1





#27
Carbon Disulfide
Concen: 1.669 ppbv
RT: 4.108 min Scan# 468
Delta R.T. 0.010 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

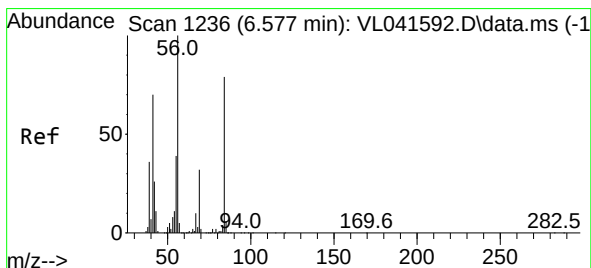
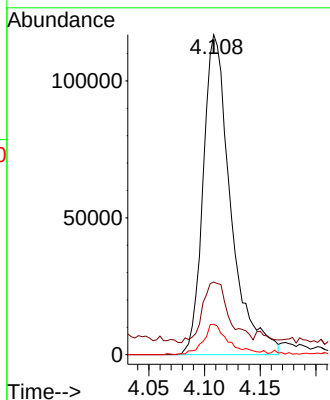
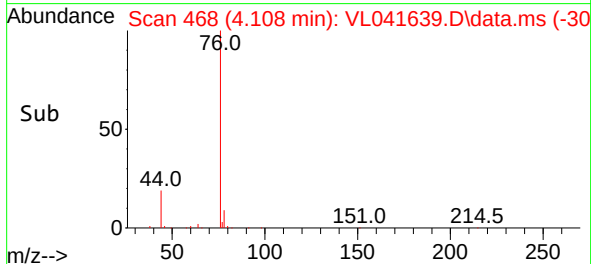
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 76 Resp: 200762
Ion Ratio Lower Upper
76 100
44 25.3 15.8 23.8
78 9.5 7.5 11.3

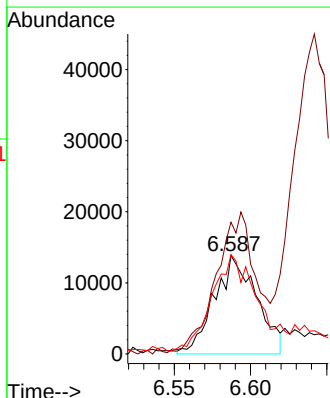
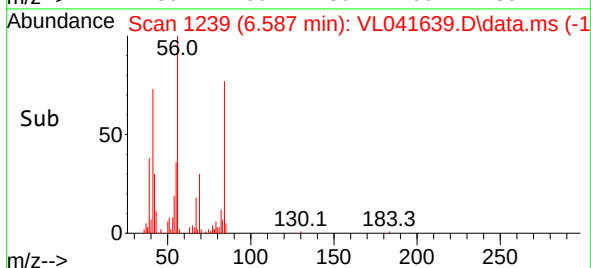
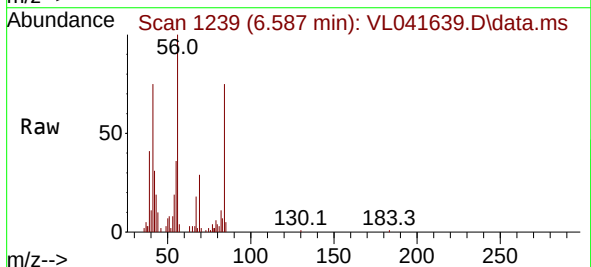
Manual Integrations
APPROVED

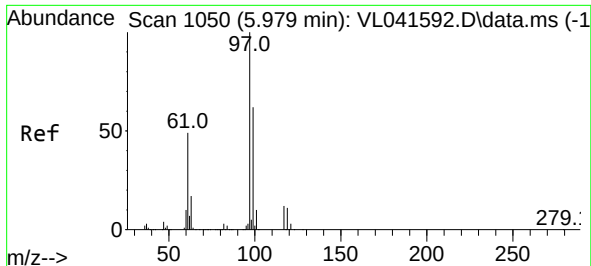
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#30
Cyclohexane
Concen: 0.307 ppbv m
RT: 6.587 min Scan# 1239
Delta R.T. 0.010 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Tgt Ion: 84 Resp: 26789
Ion Ratio Lower Upper
84 100
56 126.6 111.5 167.3
41 124.5 70.9 106.3





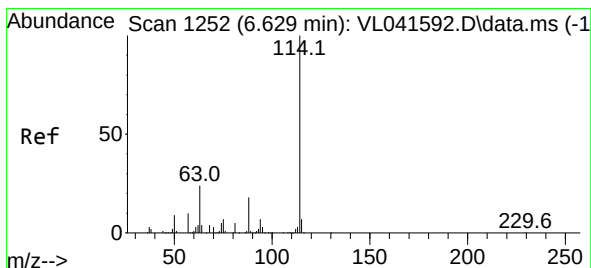
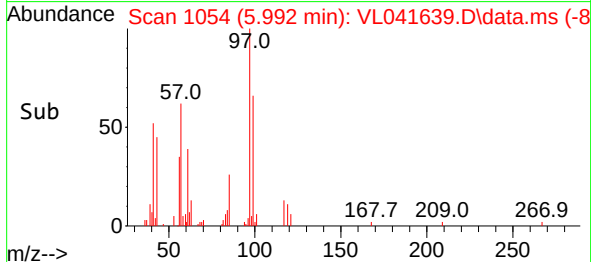
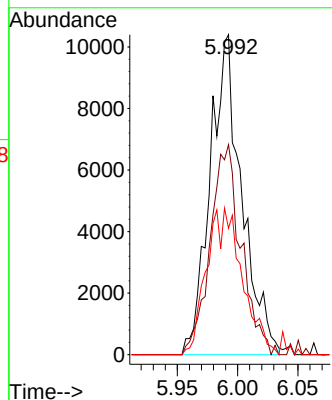
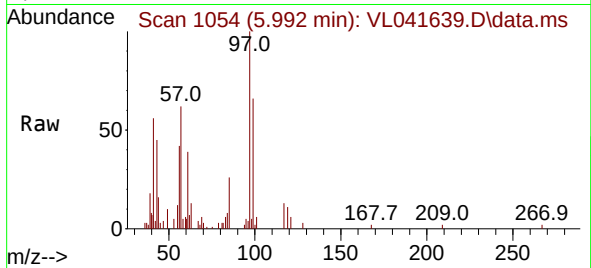
#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 5.992 min Scan# 1054
Delta R.T. 0.013 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 97 Resp: 19010
Ion Ratio Lower Upper
97 100
99 64.1 51.0 76.4
61 53.1 41.0 61.6

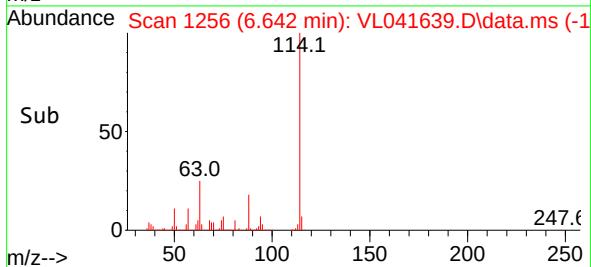
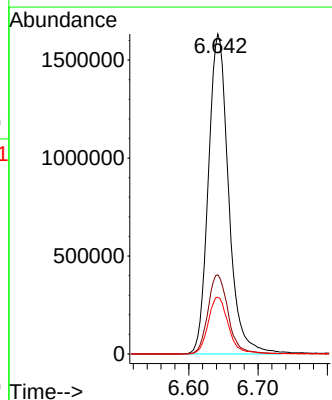
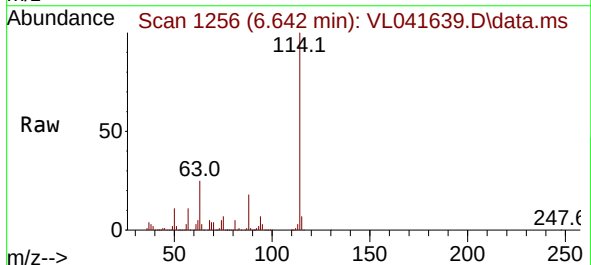
Manual Integrations
APPROVED

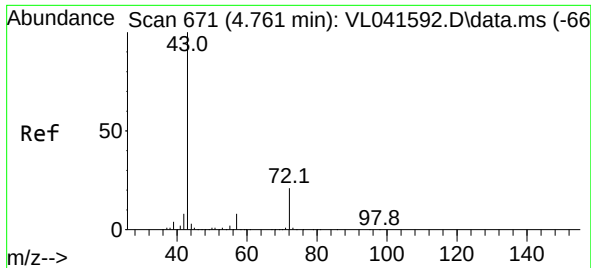
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.013 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Tgt Ion:114 Resp: 3304761
Ion Ratio Lower Upper
114 100
63 25.0 20.2 30.2
88 17.9 14.2 21.4





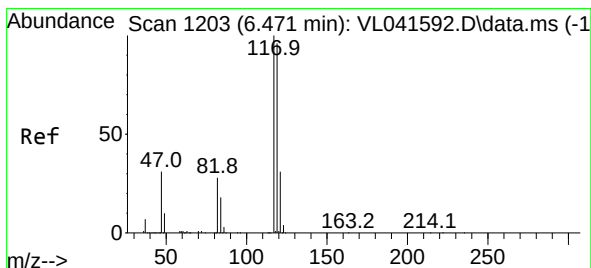
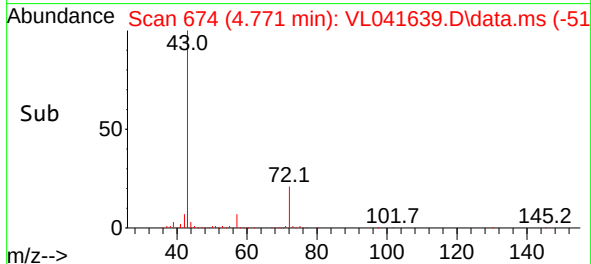
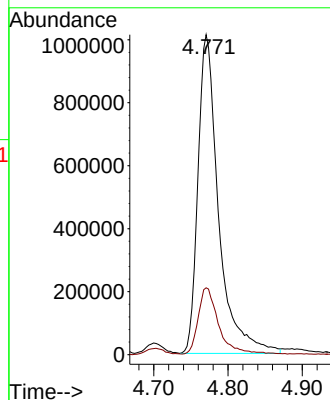
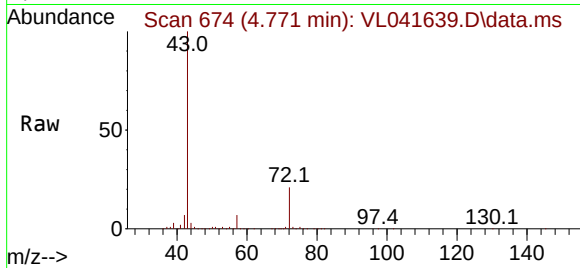
#34
2-Butanone
Concen: 12.438 ppbv
RT: 4.771 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 196002
Ion Ratio Lower Upper
43 100
72 21.5 16.8 25.2

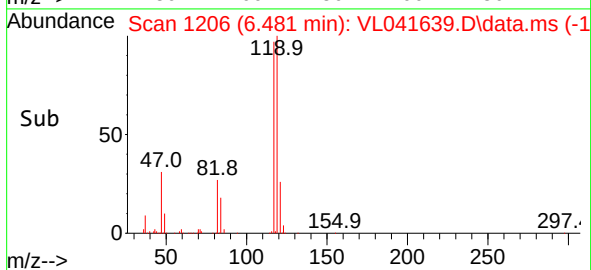
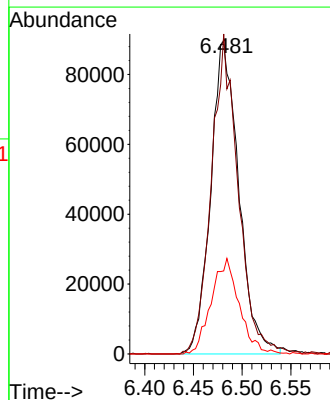
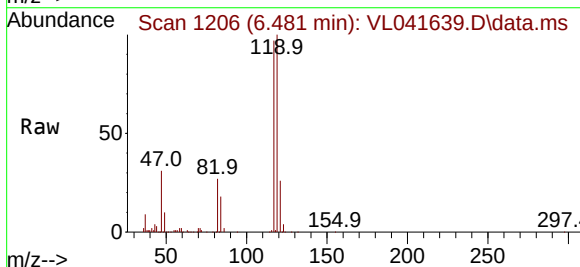
Manual Integrations
APPROVED

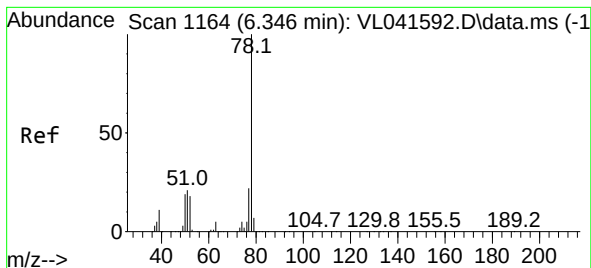
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#35
Carbon Tetrachloride
Concen: 1.108 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Tgt Ion:117 Resp: 179658
Ion Ratio Lower Upper
117 100
119 103.3 76.8 115.2
121 26.8 25.0 37.6





#36

Benzene

Concen: 0.283 ppbv

RT: 6.356 min Scan# 1164

Delta R.T. 0.010 min

Lab File: VL041639.D

Acq: 10 Oct 2024 12:49

Instrument :

MSVOA_L

ClientSampleId :

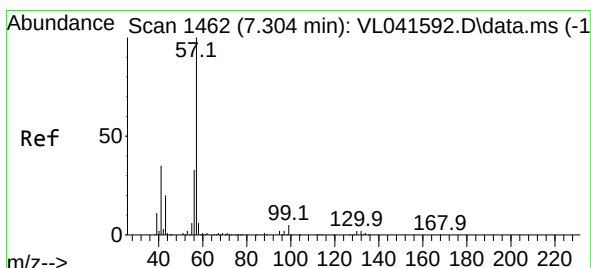
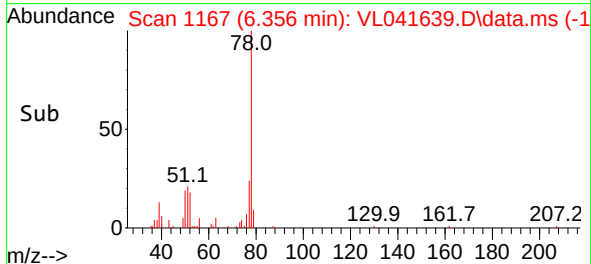
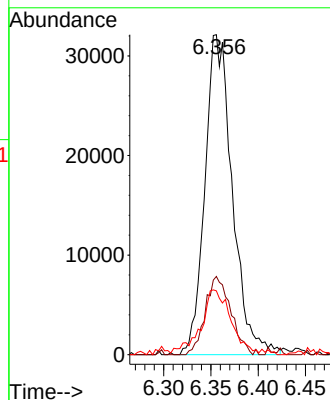
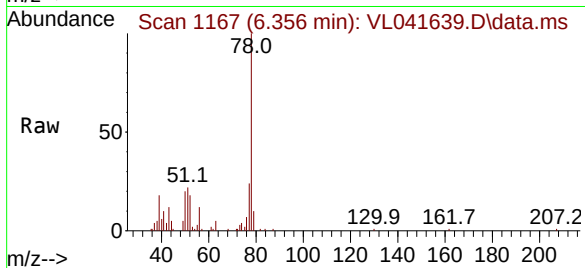
SV2

Tgt Ion: 78	Resp: 6500
Ion Ratio	Lower Upper
78 100	
77 25.0	17.8 26.6
50 20.4	15.4 23.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#44

2,2,4-Trimethylpentane

Concen: 0.127 ppbv

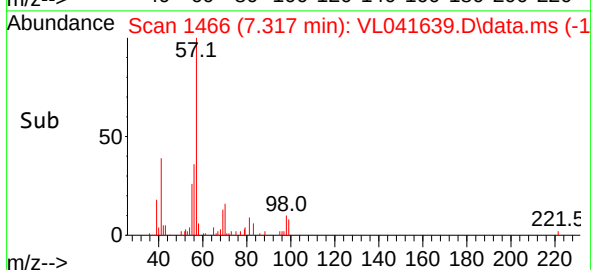
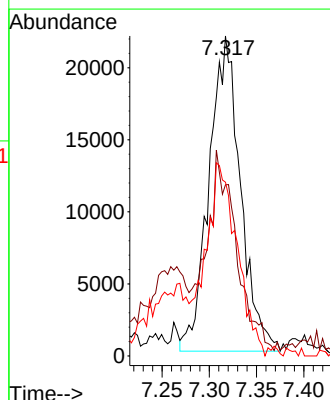
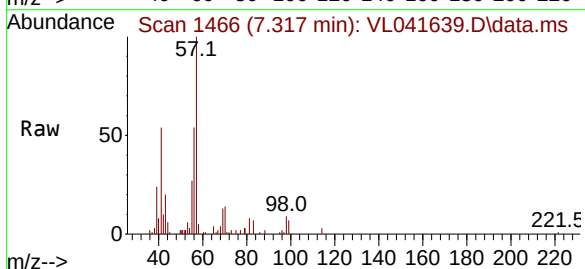
RT: 7.317 min Scan# 1466

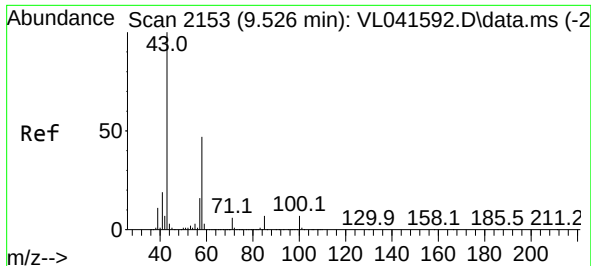
Delta R.T. 0.013 min

Lab File: VL041639.D

Acq: 10 Oct 2024 12:49

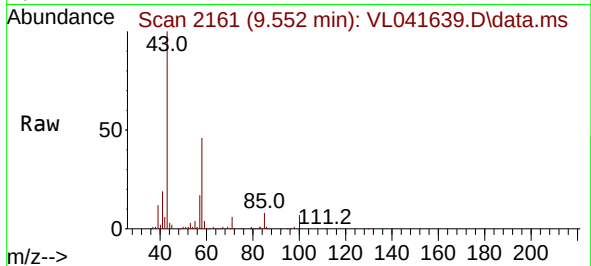
Tgt Ion: 57	Resp: 50556
Ion Ratio	Lower Upper
57 100	
41 59.5	27.0 40.6#
56 65.4	25.5 38.3#





#51
2-Hexanone
Concen: 1.048 ppbv
RT: 9.552 min Scan# 2153
Delta R.T. 0.026 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

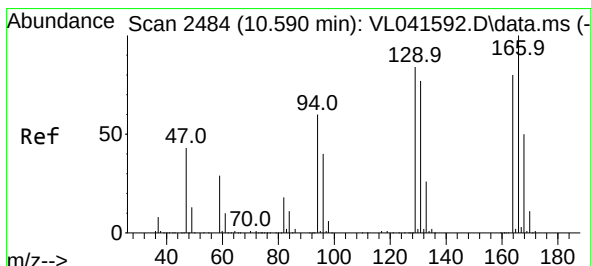
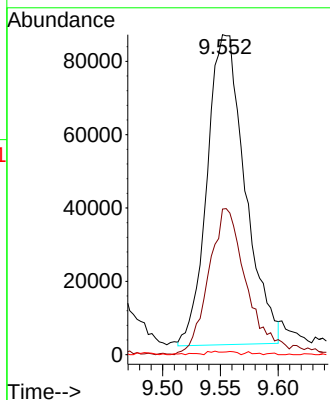
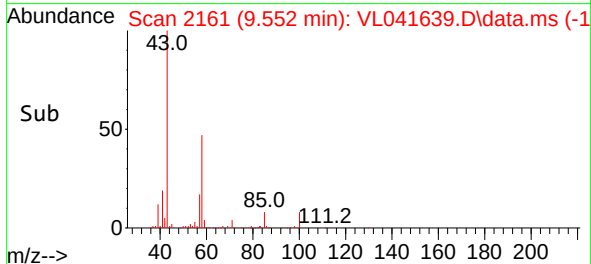
Instrument :
MSVOA_L
ClientSampleId :
SV2



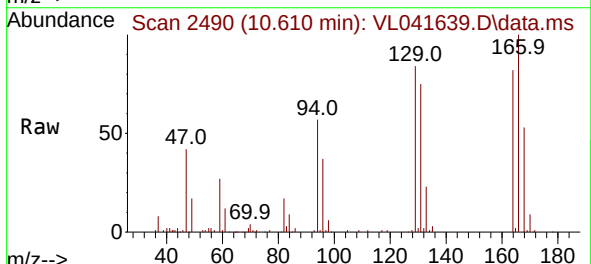
Tgt Ion: 43 Resp: 192928
Ion Ratio Lower Upper
43 100
58 47.6 37.2 55.8
98 1.2 0.5 0.7

Manual Integrations
APPROVED

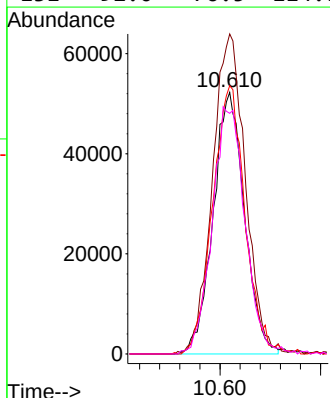
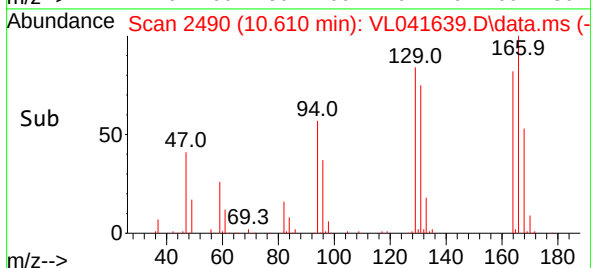
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

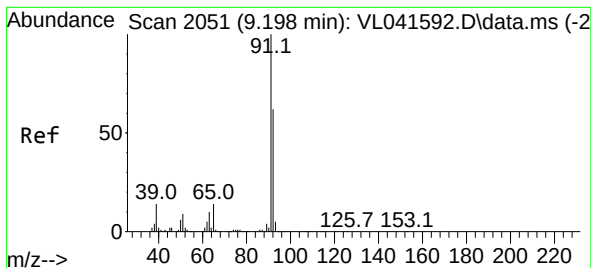


#52
Tetrachloroethene
Concen: 1.361 ppbv
RT: 10.610 min Scan# 2490
Delta R.T. 0.019 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49



Tgt Ion:164 Resp: 113081
Ion Ratio Lower Upper
164 100
166 121.3 99.4 149.2
129 102.6 83.5 125.3
131 92.0 76.5 114.7





#53

Toluene

Concen: 1.664 ppbv

RT: 9.214 min Scan# 2051

Delta R.T. 0.016 min

Lab File: VL041639.D

Acq: 10 Oct 2024 12:49

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 91 Resp: 40531

Ion Ratio Lower Upper

91 100

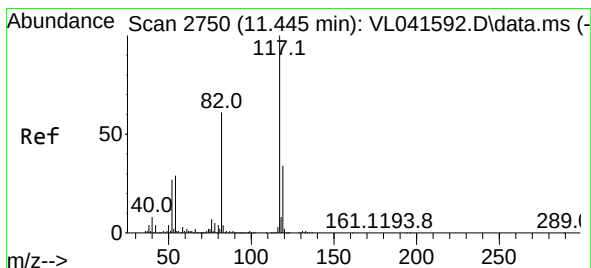
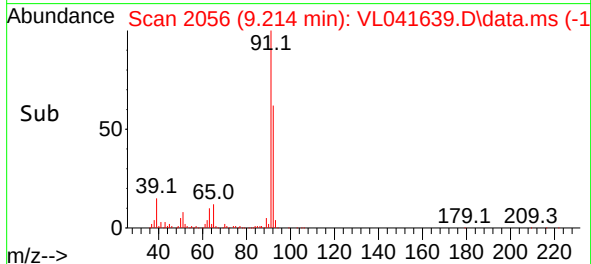
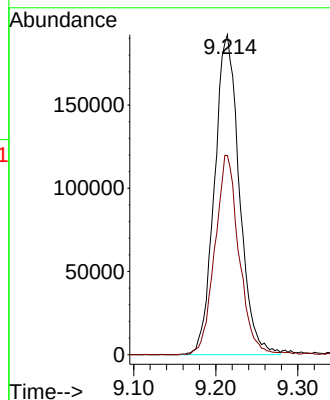
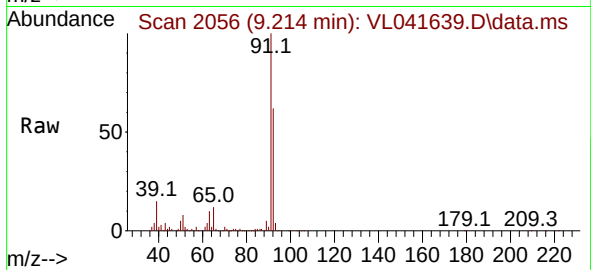
92 61.0 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024

Supervised By :Mahesh Dadoda 10/14/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2755

Delta R.T. 0.016 min

Lab File: VL041639.D

Acq: 10 Oct 2024 12:49

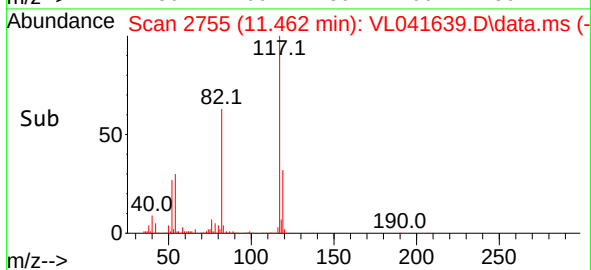
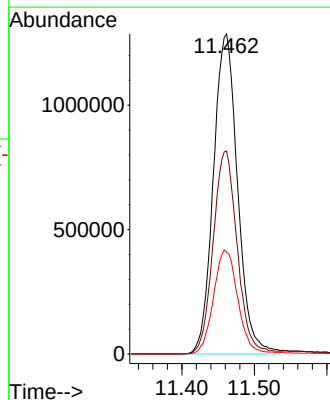
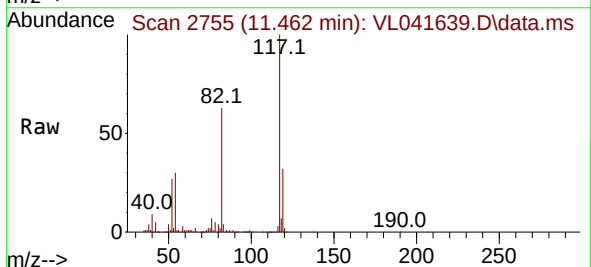
Tgt Ion:117 Resp: 2985899

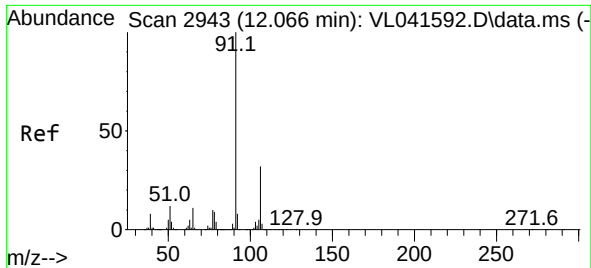
Ion Ratio Lower Upper

117 100

82 64.7 49.4 74.2

119 33.2 24.4 36.6





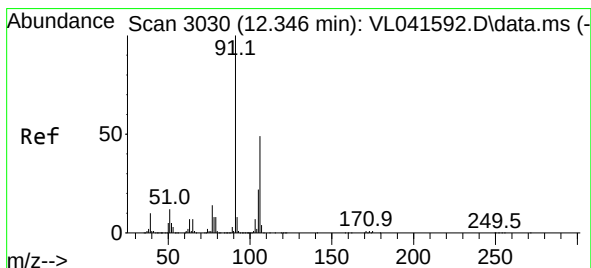
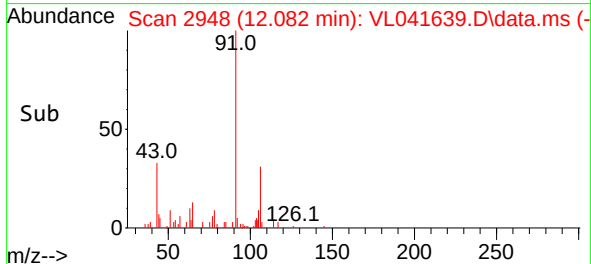
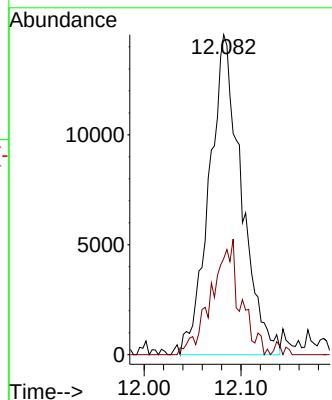
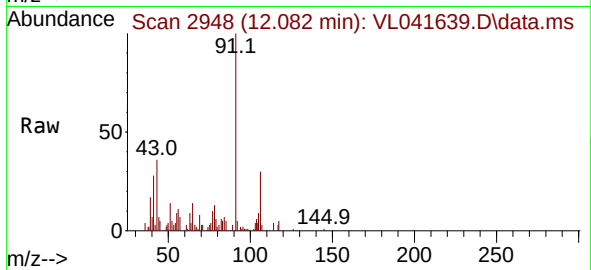
#58
Ethyl Benzene
Concen: 0.105 ppbv m
RT: 12.082 min Scan# 2948
Delta R.T. 0.016 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 33529
Ion Ratio Lower Upper
91 100
106 30.1 25.8 38.6

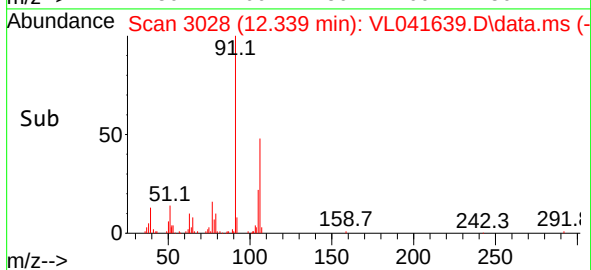
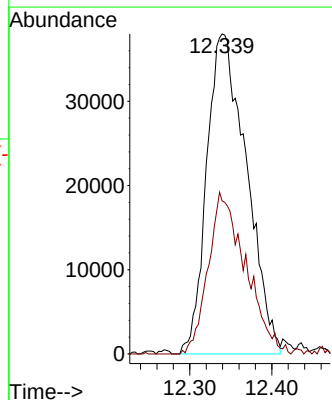
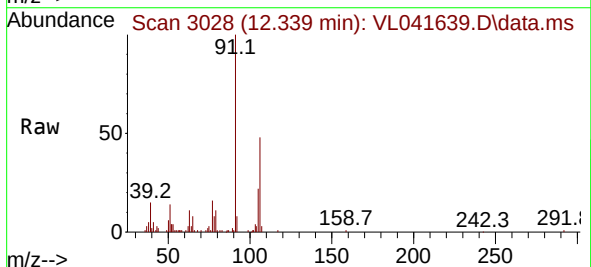
Manual Integrations
APPROVED

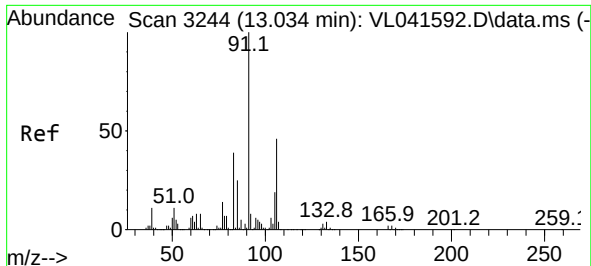
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#59
m/p-Xylene
Concen: 0.450 ppbv
RT: 12.339 min Scan# 3028
Delta R.T. -0.006 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Tgt Ion: 91 Resp: 128080
Ion Ratio Lower Upper
91 100
106 47.4 36.8 55.2





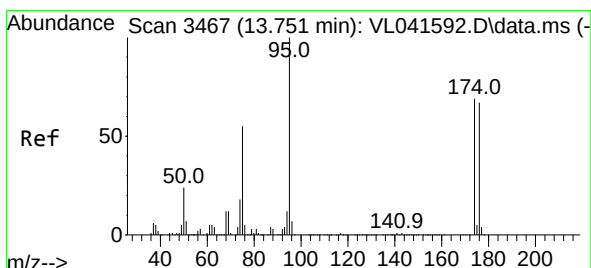
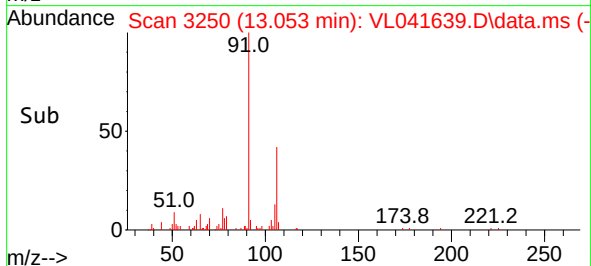
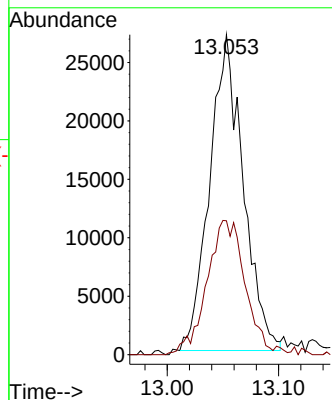
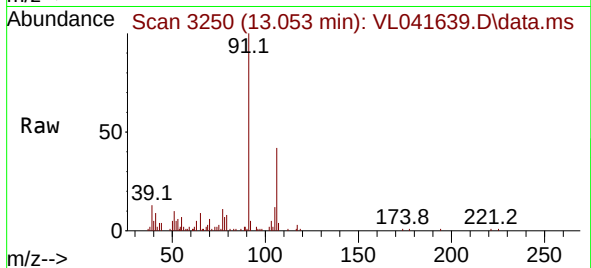
#60
o-Xylene
Concen: 0.207 ppbv
RT: 13.053 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 5655
Ion Ratio Lower Upper
91 100
106 49.4 23.1 69.3

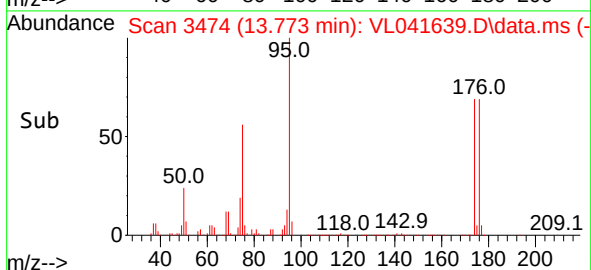
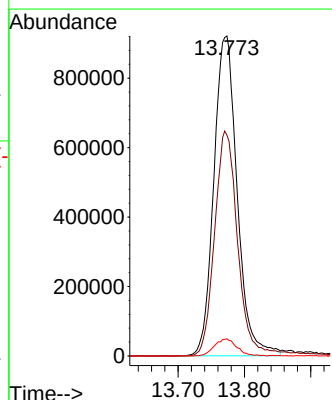
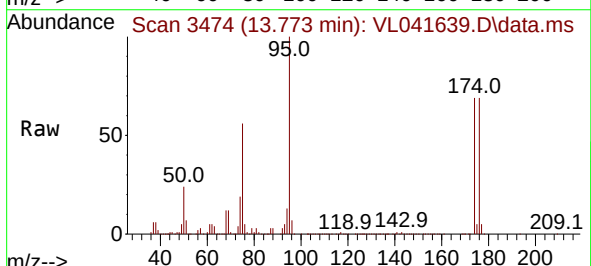
Manual Integrations
APPROVED

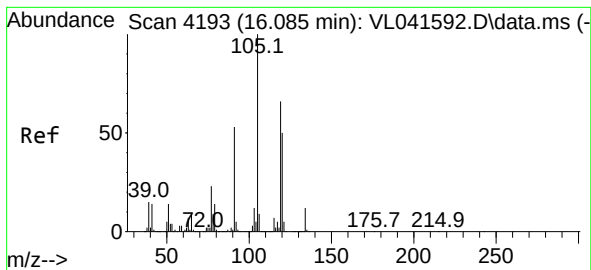
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.272 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. 0.023 min
Lab File: VL041639.D
Acq: 10 Oct 2024 12:49

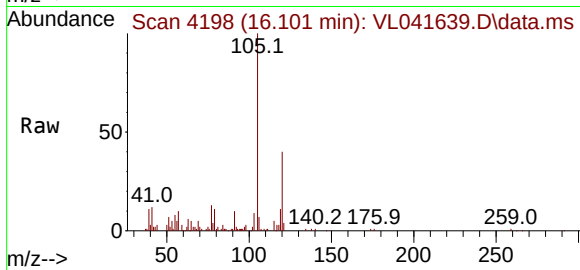
Tgt Ion: 95 Resp: 2257858
Ion Ratio Lower Upper
95 100
174 71.0 55.8 83.8
175 5.2 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.339 ppbv m
 RT: 16.101 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL041639.D
 Acq: 10 Oct 2024 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	11156
Ion	Ratio	Lower	Upper
105	100		
120	40.4	39.9	59.9
91	9.5	42.6	63.8
77	12.5	18.2	27.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
 Supervised By :Mahesh Dadoda 10/14/2024

