

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041058.D
 Acq On : 9 Feb 2024 15:06
 Operator : SY/MD
 Sample : P1420-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024
 Supervised By :Mahesh Dadoda 02/12/2024

Quant Time: Feb 12 00:47:18 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M

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

QLast Update : Mon Feb 12 00:40:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.188	49	1122077	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.648	114	3065263	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2702445	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2035500	9.972	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.726	85	107925	0.435	ppbv	98
3) Chlorodifluoromethane	2.668	51	48437m	0.257	ppbv	
4) Chloromethane	2.809	50	80894	1.144	ppbv	98
11) Trichlorofluoromethane	3.555	101	39369	0.197	ppbv	91
13) Ethanol	3.240	45	10146497	687.735	ppbv	96
15) Acetone	3.462	43	2194130	15.291	ppbv	98
17) tert-Butyl alcohol	3.889	59	43085m	0.366	ppbv	
19) Isopropyl Alcohol	3.584	45	5405364	65.077	ppbv #	96
20) Methylene Chloride	3.925	84	126663	2.294	ppbv	93
26) Hexane	5.211	57	112624	1.016	ppbv #	49
29) Chloroform	5.269	83	146895	0.747	ppbv	91
34) 2-Butanone	4.783	43	53040	0.363	ppbv	92
35) Carbon Tetrachloride	6.491	117	13198m	0.065	ppbv	
36) Benzene	6.368	78	114486	0.452	ppbv #	90
44) 2,2,4-Trimethylpentane	7.330	57	41076m	0.096	ppbv	
52) Tetrachloroethene	10.619	164	4602m	0.055	ppbv	
53) Toluene	9.217	91	123317	0.445	ppbv	99
59) m/p-Xylene	12.349	91	56086m	0.177	ppbv	

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

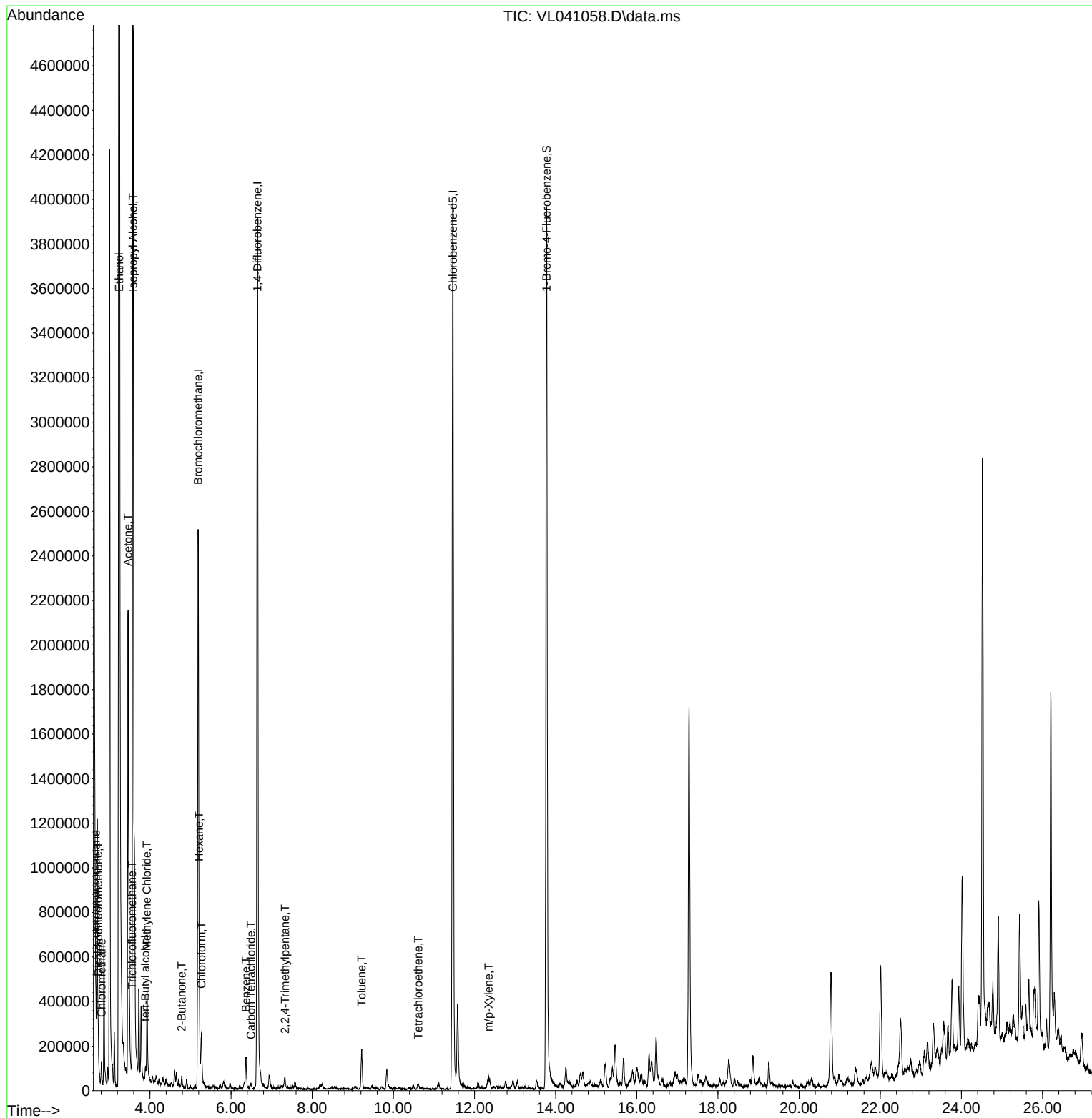
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
Data File : VL041058.D
Acq On : 9 Feb 2024 15:06
Operator : SY/MD
Sample : P1420-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

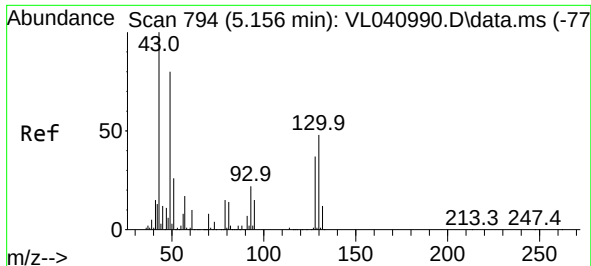
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Quant Time: Feb 12 00:47:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Feb 12 00:40:04 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/12/2024
Supervised By : Mahesh Dadoda 02/12/2024





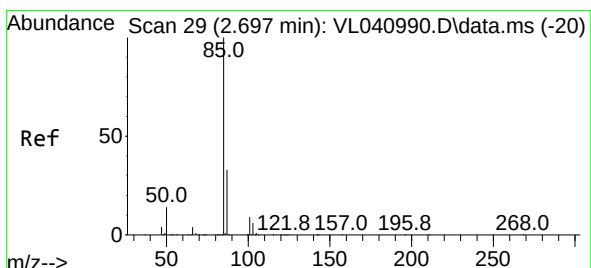
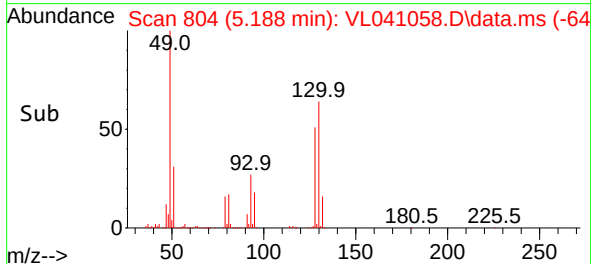
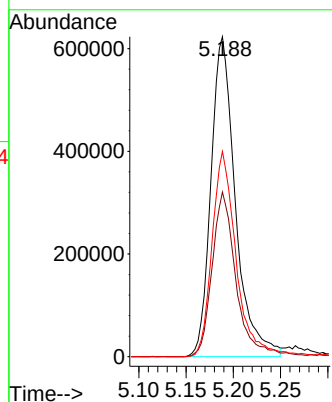
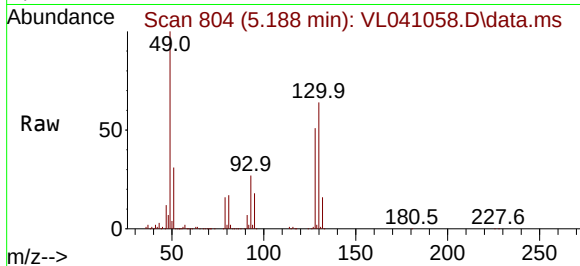
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.012 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 49 Resp: 112207
Ion Ratio Lower Upper
49 100
128 51.0 23.9 71.7
130 63.9 31.1 93.5

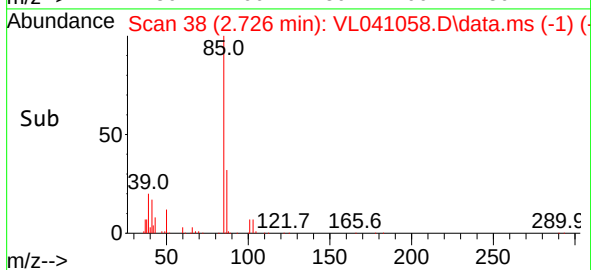
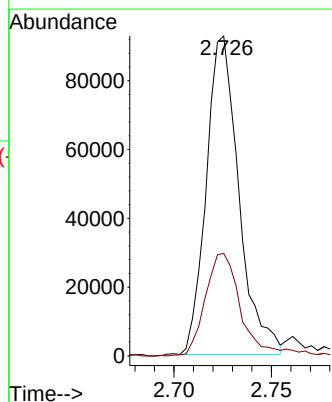
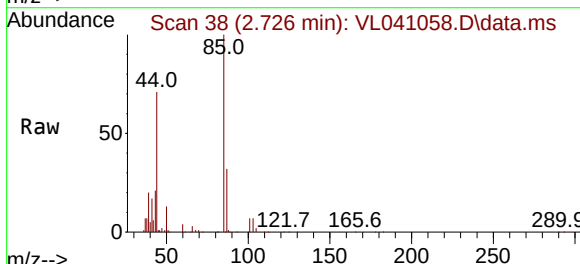
Manual Integrations
APPROVED

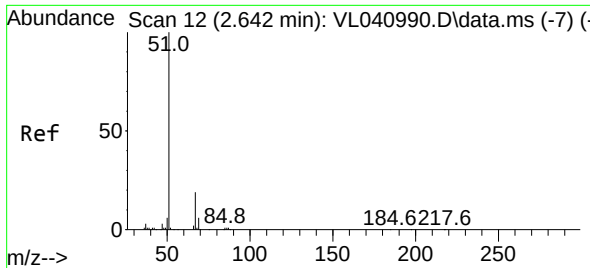
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#2
Dichlorodifluoromethane
Concen: 0.435 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 85 Resp: 107925
Ion Ratio Lower Upper
85 100
87 31.8 26.3 39.5





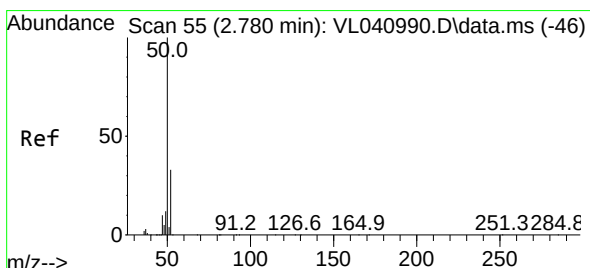
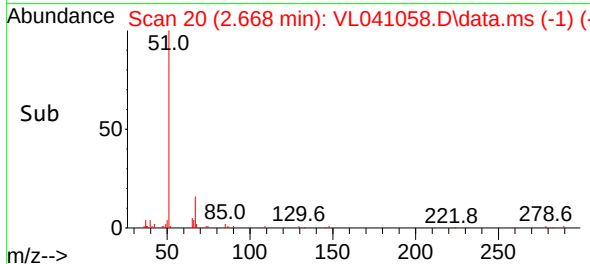
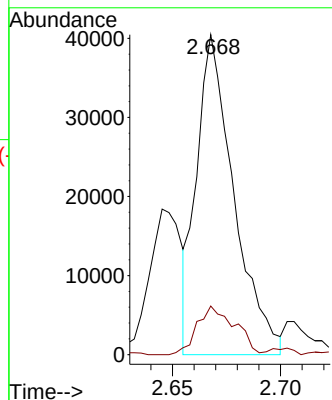
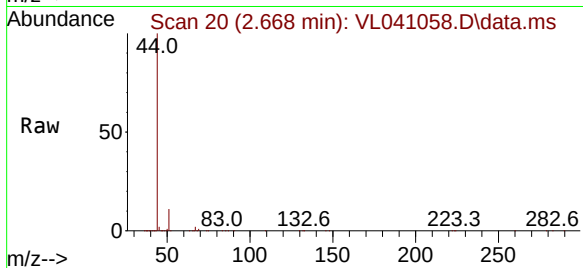
#3
Chlorodifluoromethane
Concen: 0.257 ppbv m
RT: 2.668 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 51 Resp: 4843
Ion Ratio Lower Upper
51 100
67 18.1 14.8 22.2

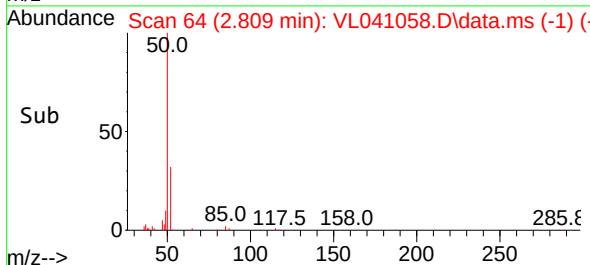
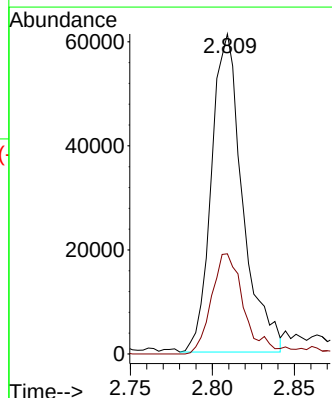
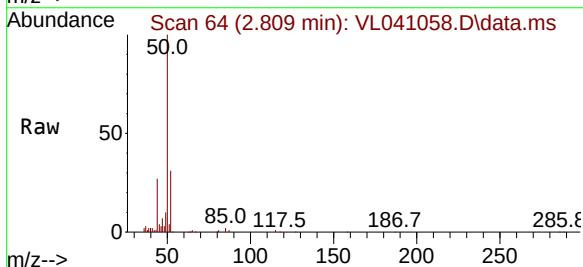
Manual Integrations
APPROVED

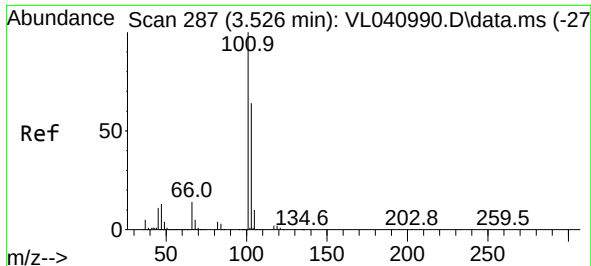
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#4
Chloromethane
Concen: 1.144 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 50 Resp: 80894
Ion Ratio Lower Upper
50 100
52 31.7 26.2 39.4





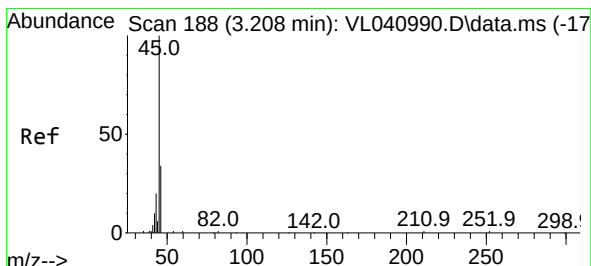
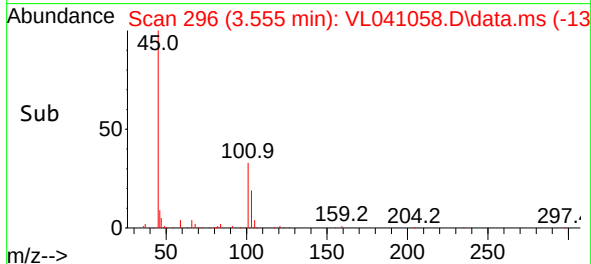
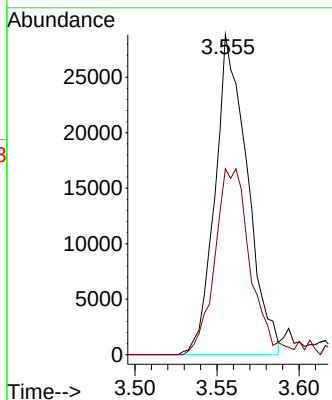
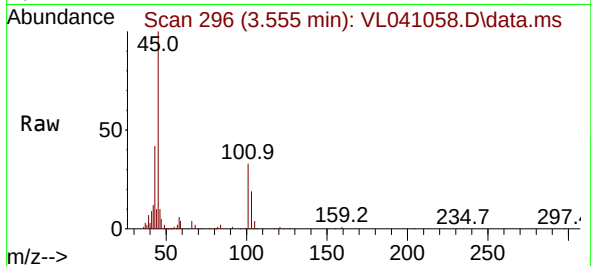
#11
Trichlorofluoromethane
Concen: 0.197 ppbv
RT: 3.555 min Scan# 296
Delta R.T. 0.006 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion:101 Resp: 39369
Ion Ratio Lower Upper
101 100
103 57.3 51.4 77.2

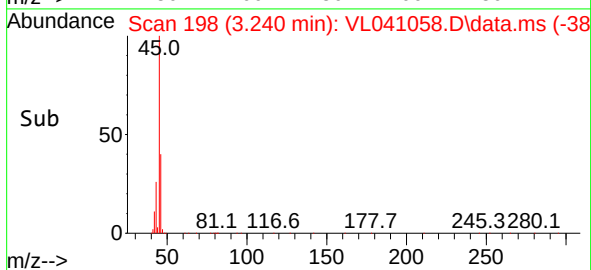
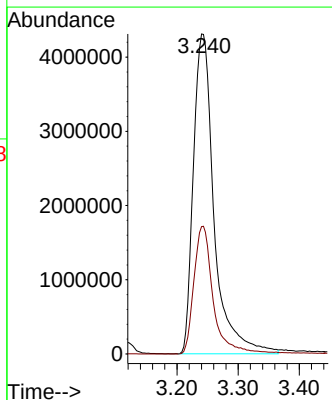
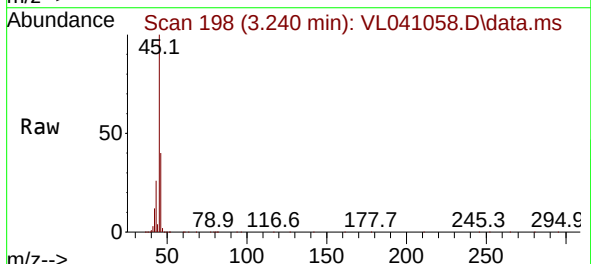
Manual Integrations
APPROVED

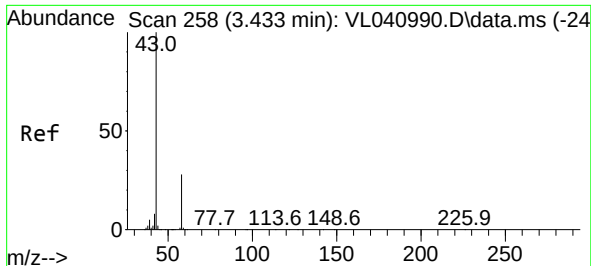
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#13
Ethanol
Concen: 687.735 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 45 Resp:10146497
Ion Ratio Lower Upper
45 100
46 37.9 16.2 64.8





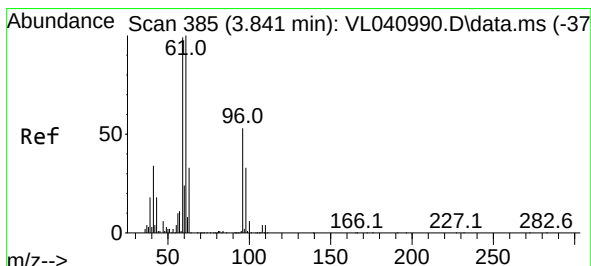
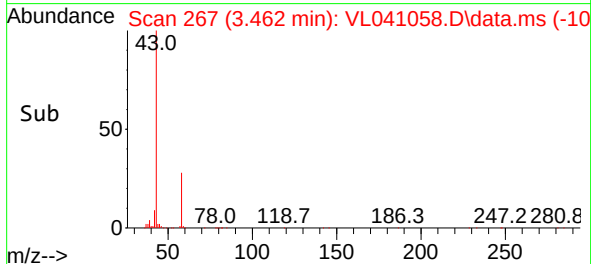
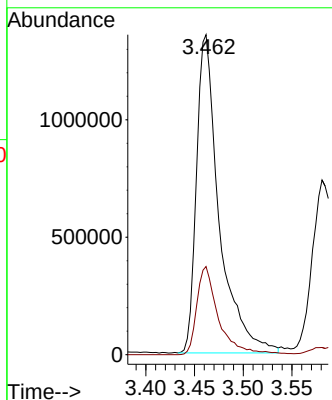
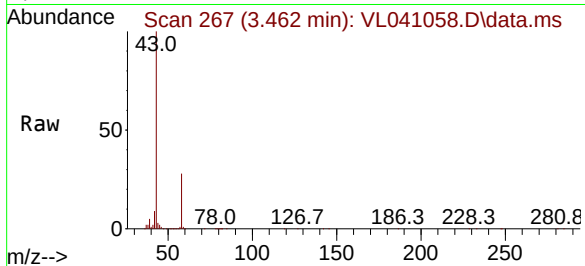
#15
Acetone
Concen: 15.291 ppbv
RT: 3.462 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 43 Resp: 2194130
Ion Ratio Lower Upper
43 100
58 26.6 22.2 33.2

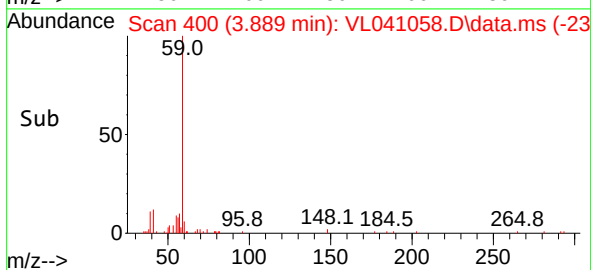
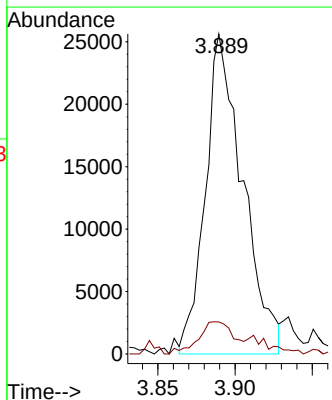
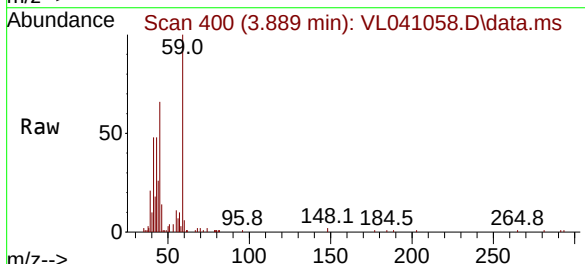
Manual Integrations
APPROVED

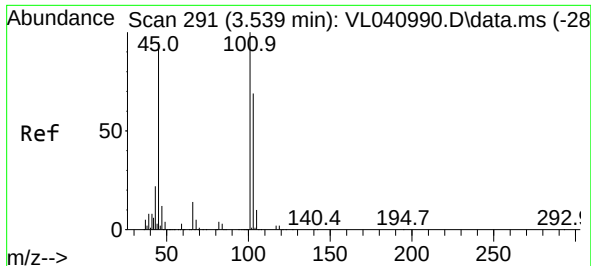
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#17
tert-Butyl alcohol
Concen: 0.366 ppbv m
RT: 3.889 min Scan# 400
Delta R.T. 0.026 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion: 59 Resp: 43085
Ion Ratio Lower Upper
59 100
57 13.9 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 65.077 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.022 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion: 45 Resp: 540536

Ion Ratio Lower Upper

45 100

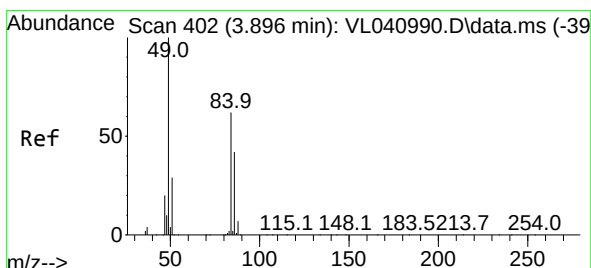
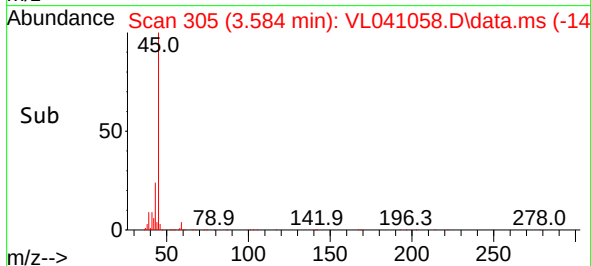
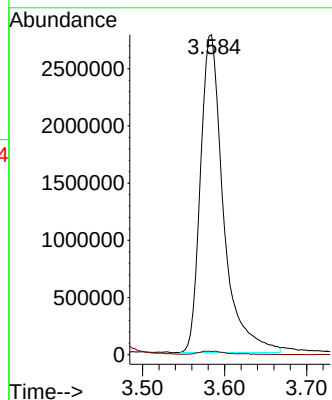
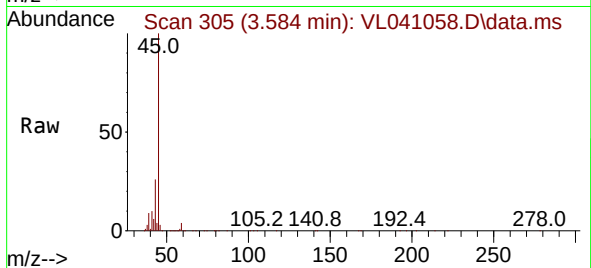
58 1.5 2.2 3.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#20

Methylene Chloride

Concen: 2.294 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.006 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Tgt Ion: 84 Resp: 126663

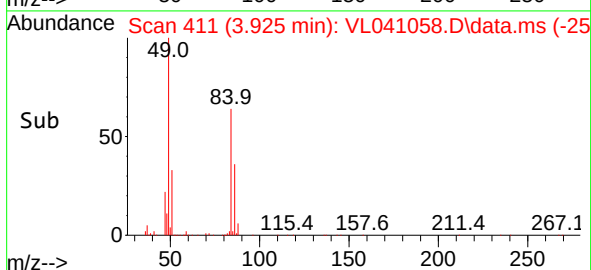
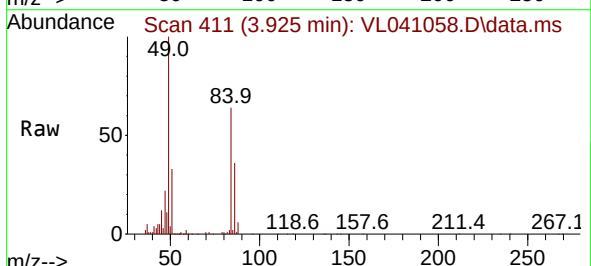
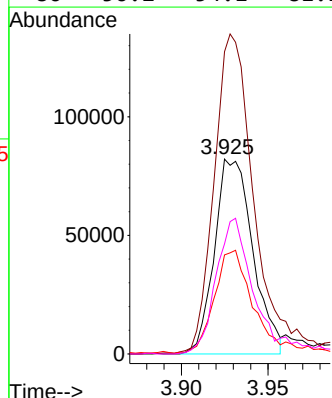
Ion Ratio Lower Upper

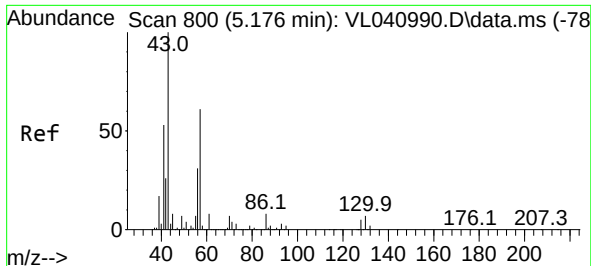
84 100

49 154.1 128.1 192.1

51 49.9 36.5 54.7

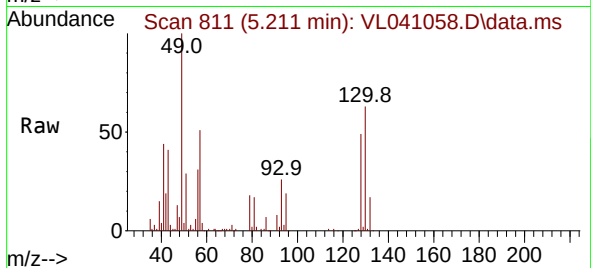
86 56.2 54.1 81.1





#26
Hexane
Concen: 1.016 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

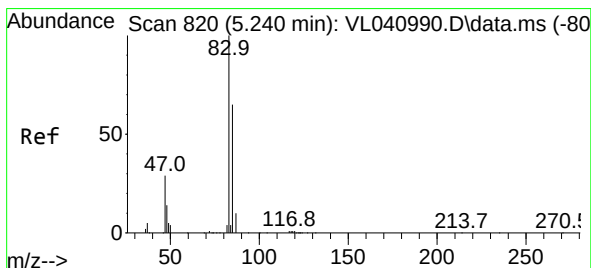
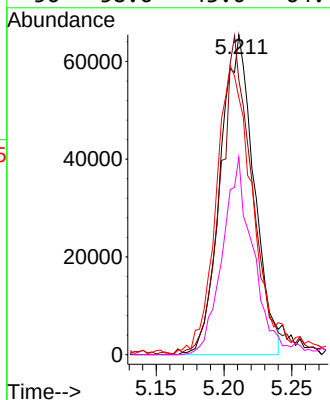
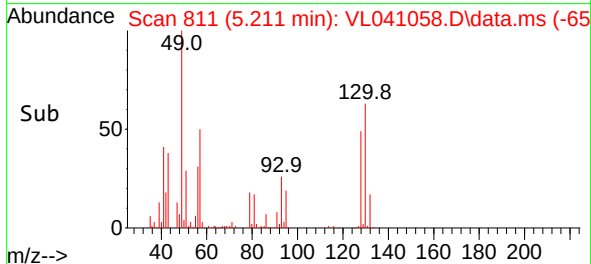
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



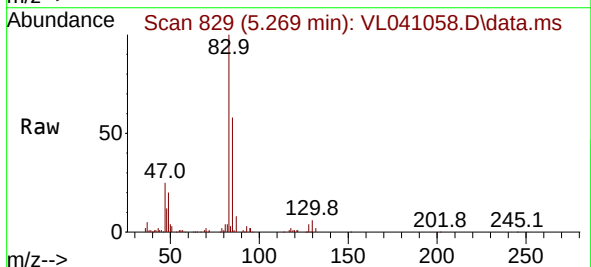
Tgt Ion: 57 Resp: 112624
Ion Ratio Lower Upper
57 100
41 96.8 74.4 111.6
43 103.5 190.6 285.8
56 58.6 43.0 64.4

Manual Integrations
APPROVED

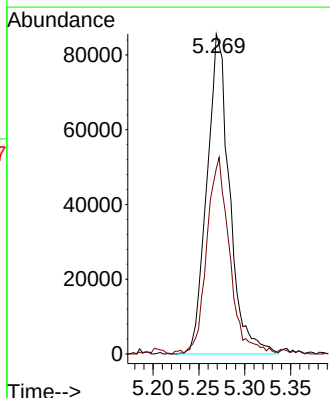
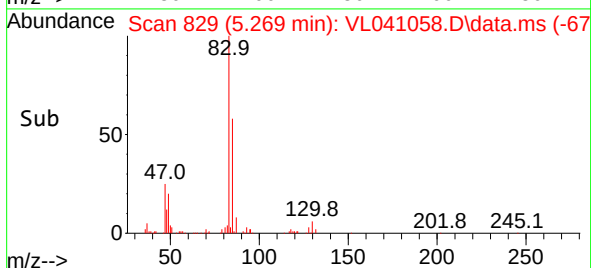
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

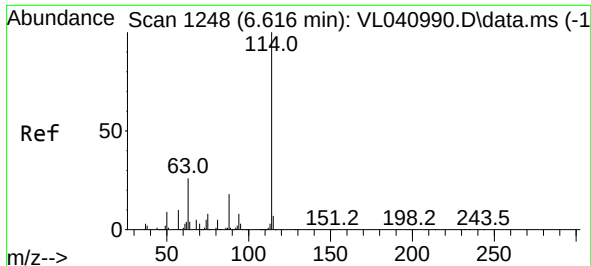


#29
Chloroform
Concen: 0.747 ppbv
RT: 5.269 min Scan# 829
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06



Tgt Ion: 83 Resp: 146895
Ion Ratio Lower Upper
83 100
85 57.0 51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion:114 Resp: 306526

Ion Ratio Lower Upper

114 100

63 24.1 20.8 31.2

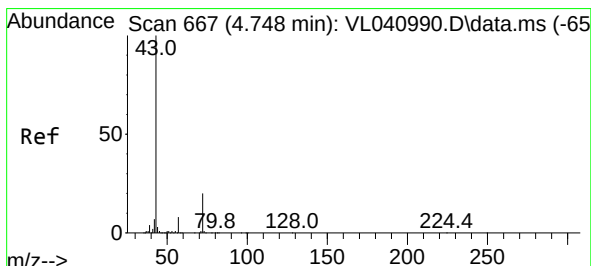
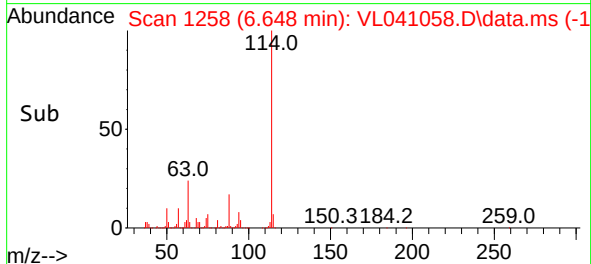
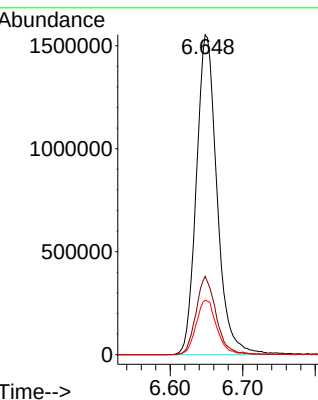
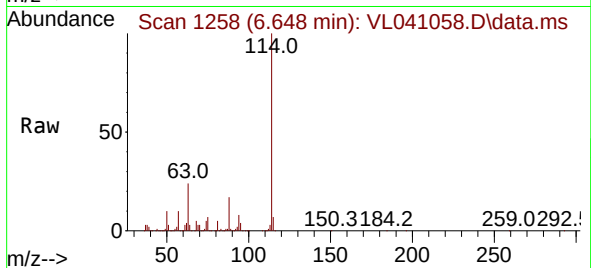
88 17.2 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#34

2-Butanone

Concen: 0.363 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.013 min

Lab File: VL041058.D

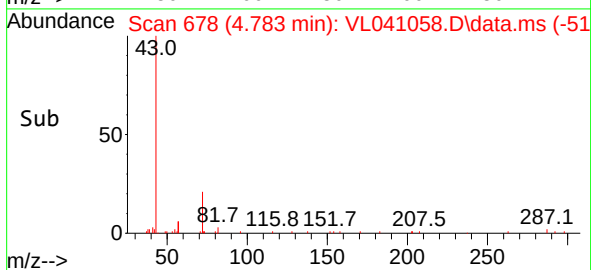
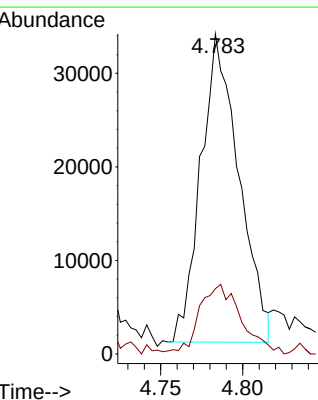
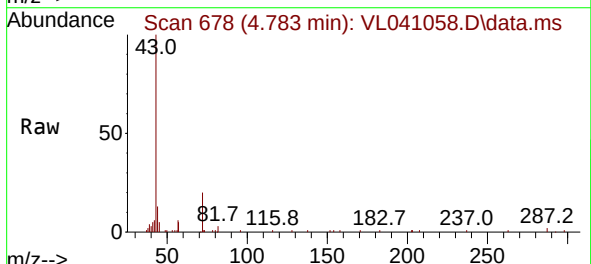
Acq: 9 Feb 2024 15:06

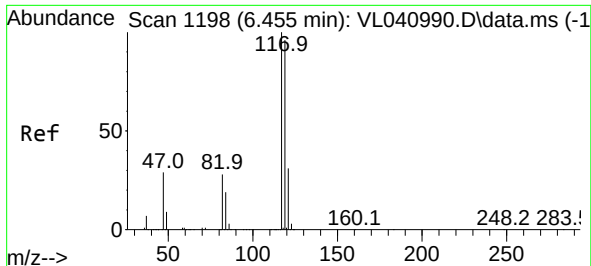
Tgt Ion: 43 Resp: 53040

Ion Ratio Lower Upper

43 100

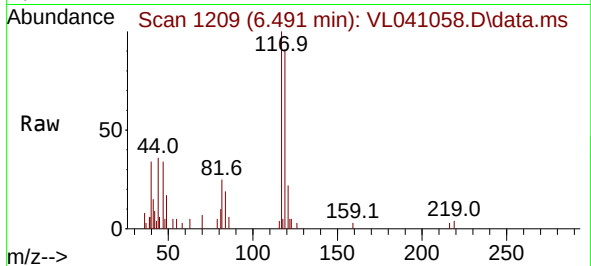
72 25.5 17.5 26.3





#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 6.491 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

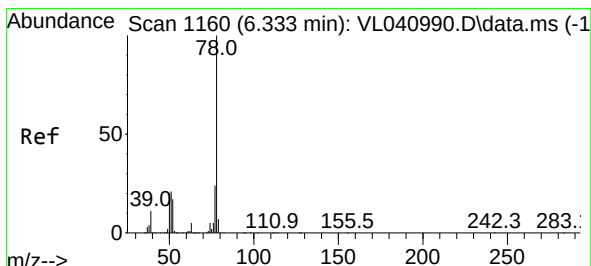
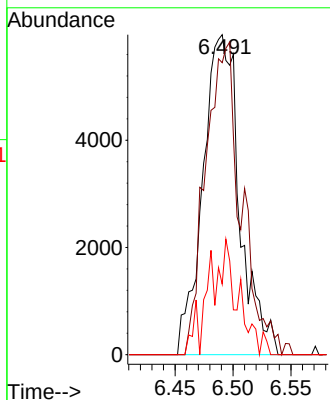
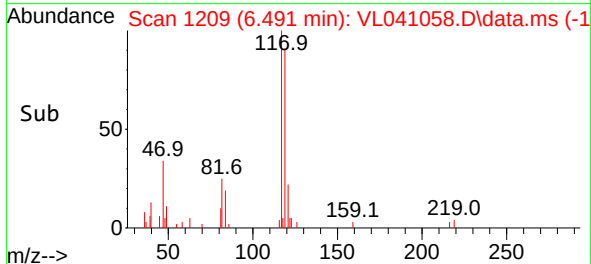
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 117 Resp: 13198
Ion Ratio Lower Upper
117 100
119 91.3 76.9 115.3
121 22.1 24.7 37.1

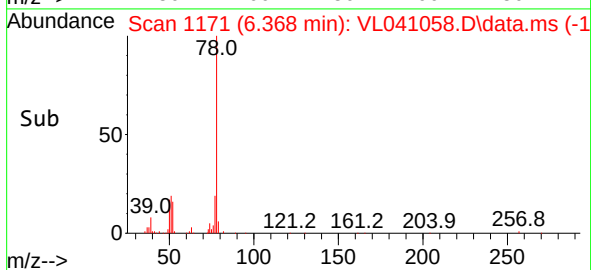
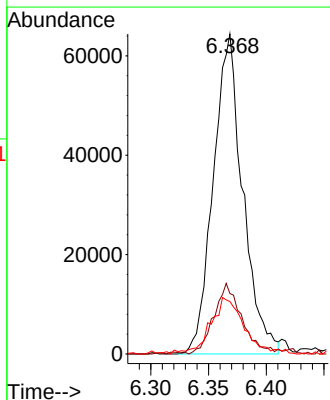
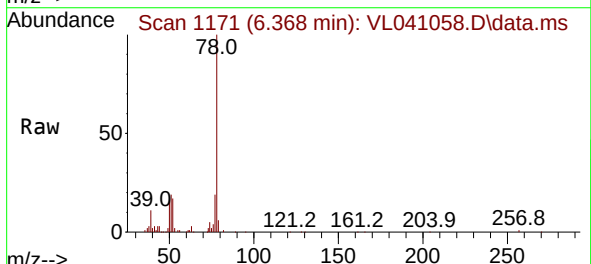
Manual Integrations
APPROVED

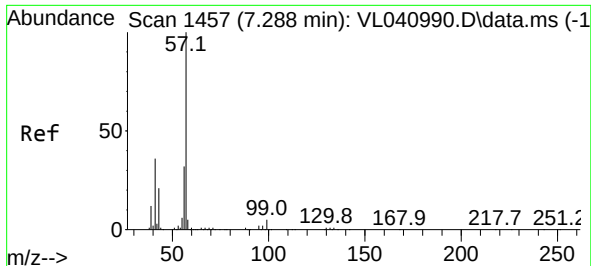
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#36
Benzene
Concen: 0.452 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

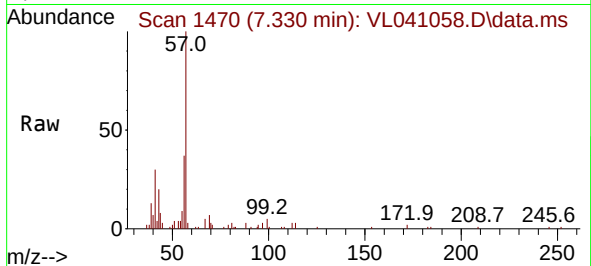
Tgt Ion: 78 Resp: 114486
Ion Ratio Lower Upper
78 100
77 18.4 19.0 28.4#
50 15.7 15.8 23.6#





#44
2,2,4-Trimethylpentane
Concen: 0.096 ppbv m
RT: 7.330 min Scan# 1457
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

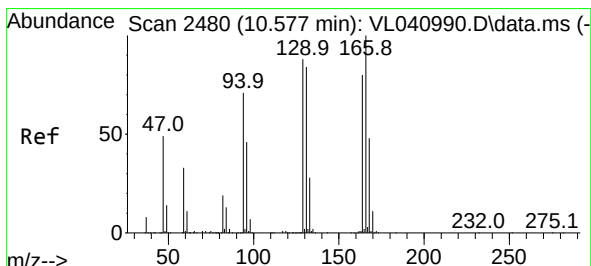
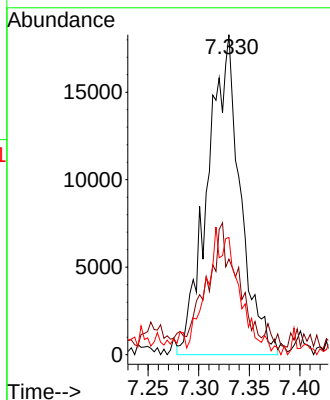
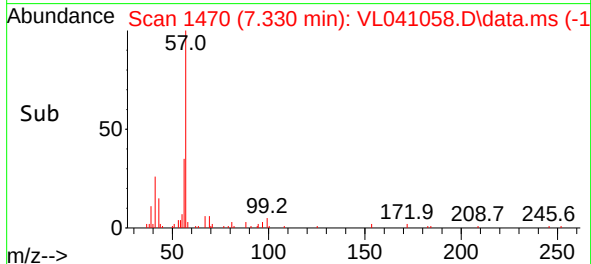
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 57 Resp: 41070
Ion Ratio Lower Upper
57 100
41 42.8 28.6 43.0
56 42.2 25.2 37.8

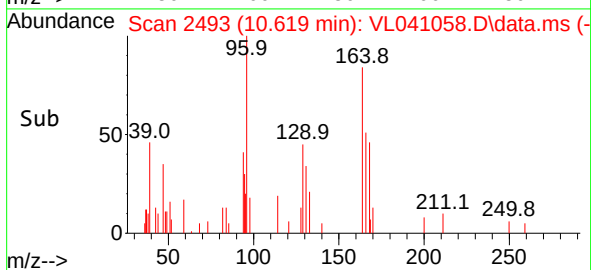
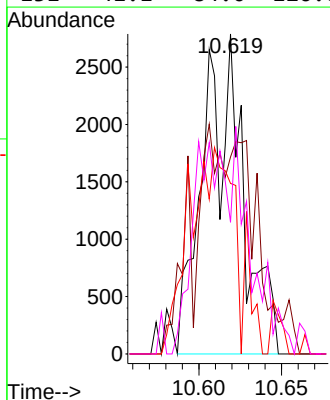
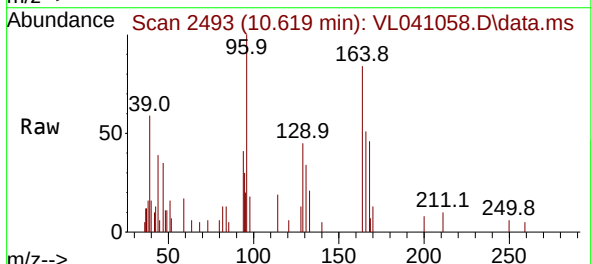
Manual Integrations
APPROVED

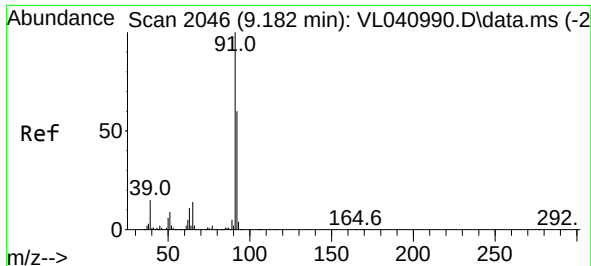
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#52
Tetrachloroethene
Concen: 0.055 ppbv m
RT: 10.619 min Scan# 2493
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

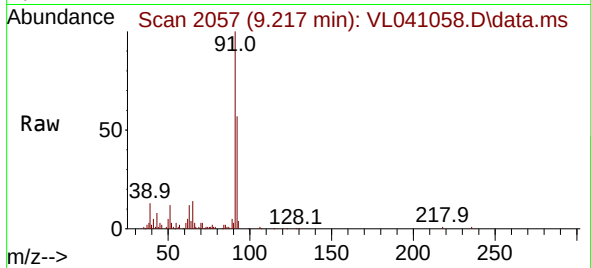
Tgt Ion:164 Resp: 4602
Ion Ratio Lower Upper
164 100
166 61.6 100.2 150.2#
129 53.3 87.9 131.9#
131 41.1 84.0 126.0#





#53
Toluene
Concen: 0.445 ppbv
RT: 9.217 min Scan# 2046
Delta R.T. 0.010 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

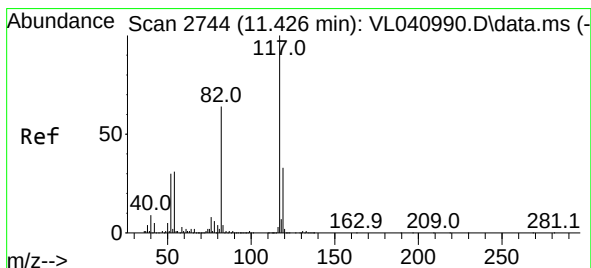
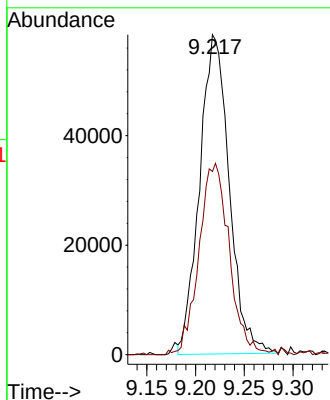
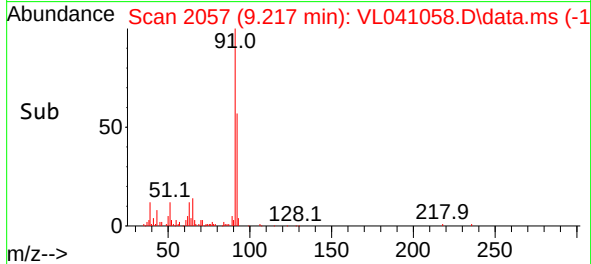
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 91 Resp: 12331
Ion Ratio Lower Upper
91 100
92 61.5 48.6 72.8

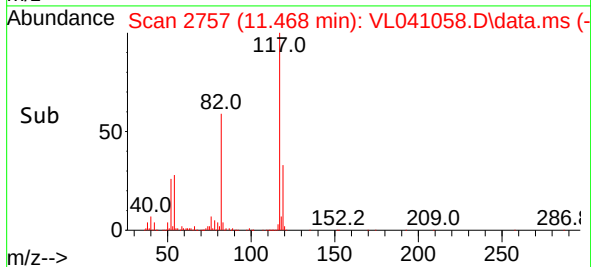
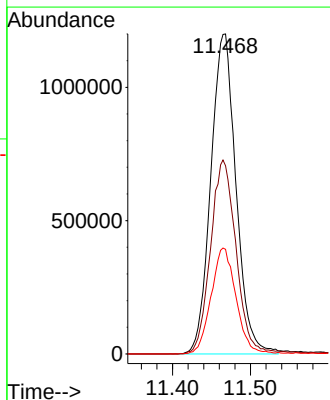
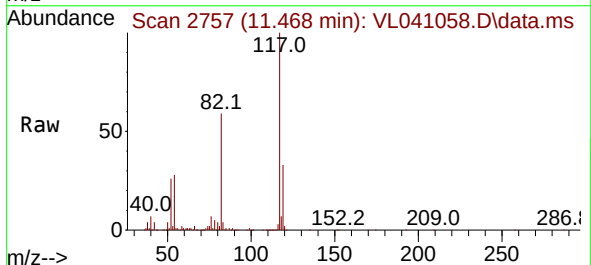
Manual Integrations
APPROVED

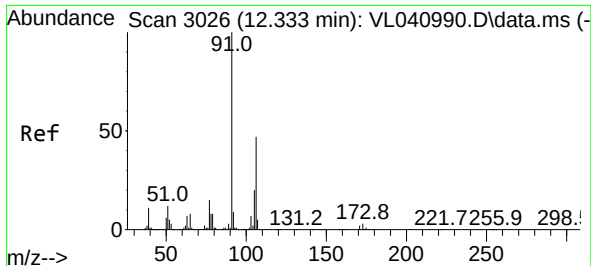
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.016 min
Lab File: VL041058.D
Acq: 9 Feb 2024 15:06

Tgt Ion:117 Resp: 2702445
Ion Ratio Lower Upper
117 100
82 62.7 51.7 77.5
119 32.9 23.8 35.6





#59

m/p-Xylene

Concen: 0.177 ppbv m

RT: 12.349 min Scan# 3026

Delta R.T. -0.007 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion: 91 Resp: 5608

Ion Ratio Lower Upper

91 100

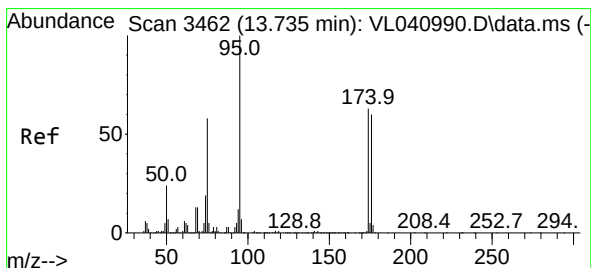
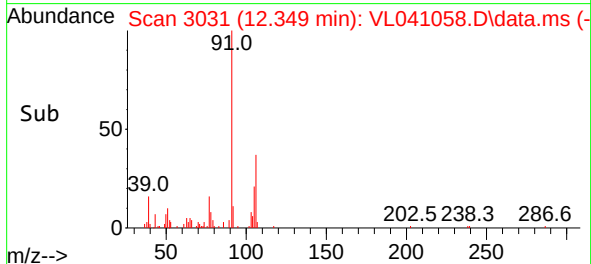
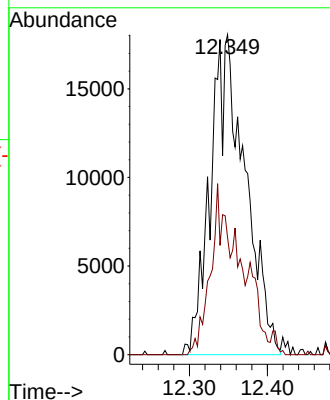
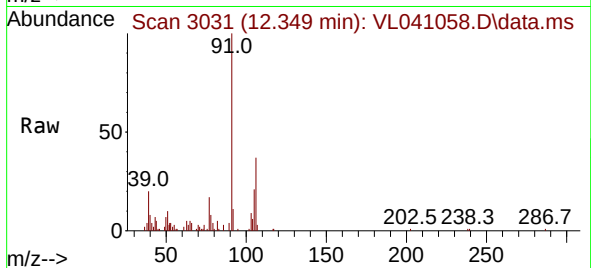
106 0.0 34.9 52.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.972 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.013 min

Lab File: VL041058.D

Acq: 9 Feb 2024 15:06

Tgt Ion: 95 Resp: 2035500

Ion Ratio Lower Upper

95 100

174 64.5 49.1 73.7

175 4.7 3.7 5.5

