

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041063.D
 Acq On : 9 Feb 2024 18:25
 Operator : SY/MD
 Sample : P1420-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDUP

Manual Integrations
 APPROVED

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

Quant Time: Feb 12 00:49:30 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	5.189	49	1113055	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.648	114	2908808	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2561382	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	1946334	10.060	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.729	85	109916	0.447	ppbv	98
4) Chloromethane	2.816	50	41256	0.588	ppbv #	86
11) Trichlorofluoromethane	3.562	101	41559	0.210	ppbv	90
13) Ethanol	3.243	45	6618424	452.237	ppbv	95
15) Acetone	3.469	43	1059401	7.443	ppbv	97
17) tert-Butyl alcohol	3.893	59	27220m	0.233	ppbv	
19) Isopropyl Alcohol	3.584	45	1219010	14.795	ppbv	99
20) Methylene Chloride	3.932	84	1981871	36.184	ppbv	95
26) Hexane	5.208	57	1718286	15.619	ppbv #	38
29) Chloroform	5.269	83	37764m	0.194	ppbv	
34) 2-Butanone	4.787	43	34019m	0.245	ppbv	
35) Carbon Tetrachloride	6.497	117	11562m	0.060	ppbv	
36) Benzene	6.365	78	55788m	0.232	ppbv	
44) 2,2,4-Trimethylpentane	7.320	57	38842m	0.096	ppbv	
52) Tetrachloroethene	10.613	164	3195m	0.040	ppbv	
53) Toluene	9.214	91	82488m	0.313	ppbv	
59) m/p-Xylene	12.372	91	93405m	0.311	ppbv	

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

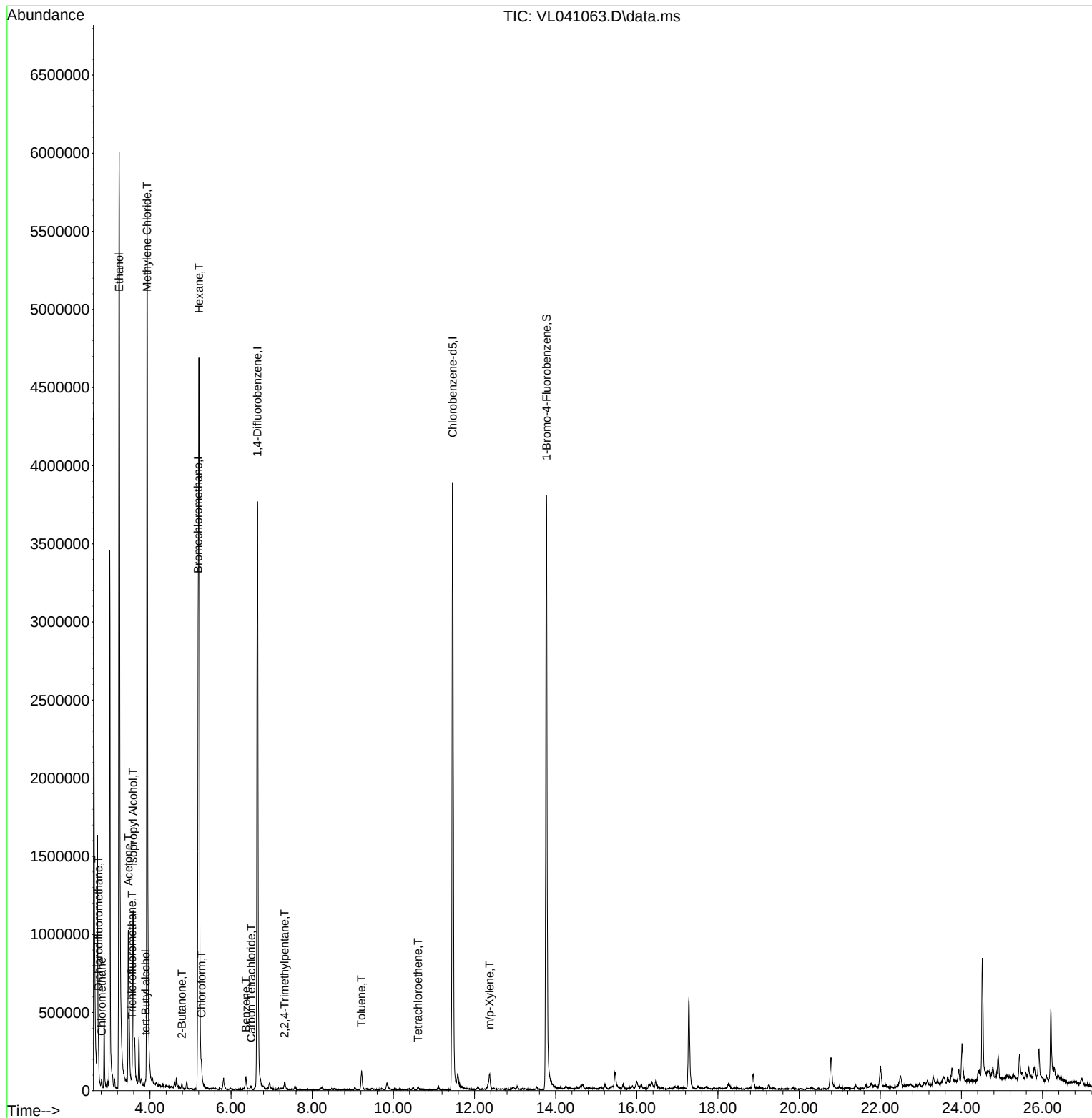
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
Data File : VL041063.D
Acq On : 9 Feb 2024 18:25
Operator : SY/MD
Sample : P1420-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

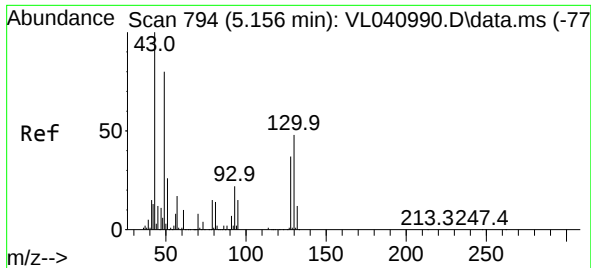
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Quant Time: Feb 12 00:49:30 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

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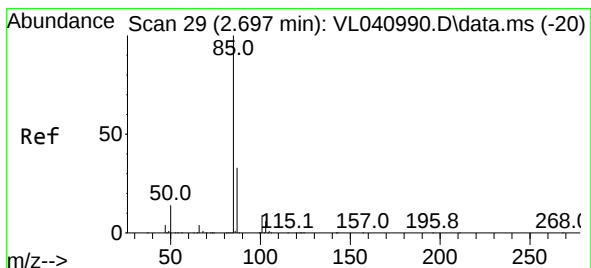
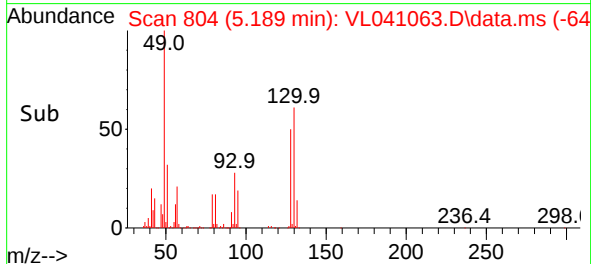
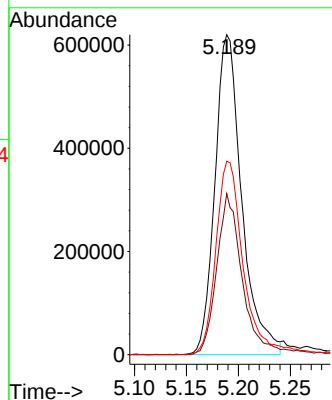
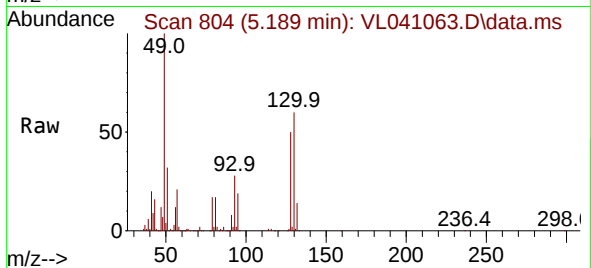
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VL041063.D
 Acq: 9 Feb 2024 18:25

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDUP

Tgt Ion: 49 Resp: 111305
 Ion Ratio Lower Upper
 49 100
 128 49.4 23.9 71.7
 130 63.1 31.1 93.5

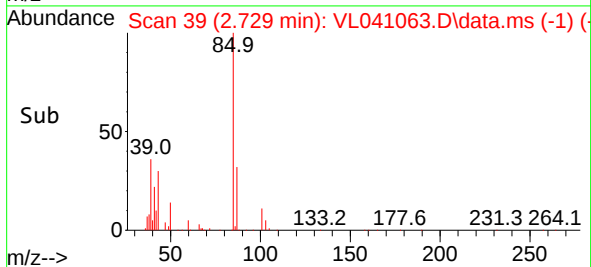
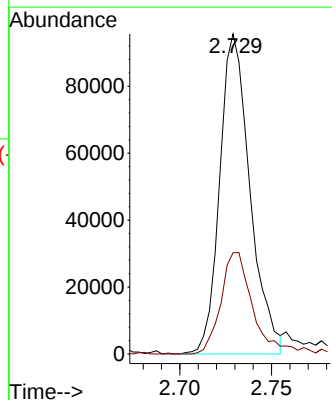
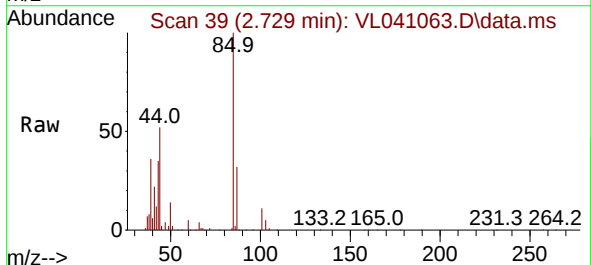
Manual Integrations
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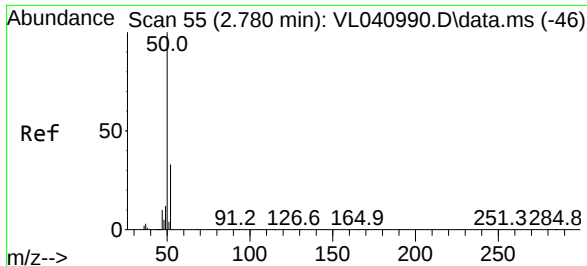
Reviewed By :Semsettin Yesilyurt 02/12/2024
 Supervised By :Mahesh Dadoda 02/12/2024



#2
 Dichlorodifluoromethane
 Concen: 0.447 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.013 min
 Lab File: VL041063.D
 Acq: 9 Feb 2024 18:25

Tgt Ion: 85 Resp: 109916
 Ion Ratio Lower Upper
 85 100
 87 31.6 26.3 39.5





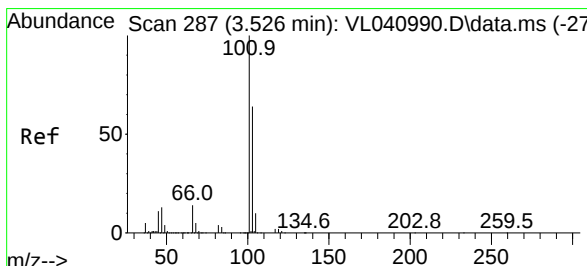
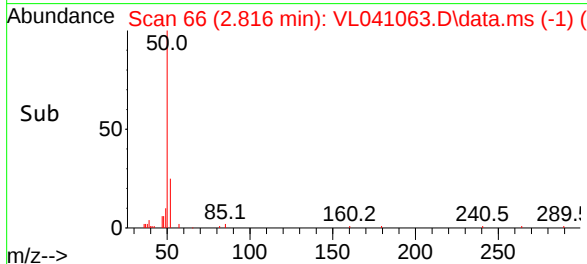
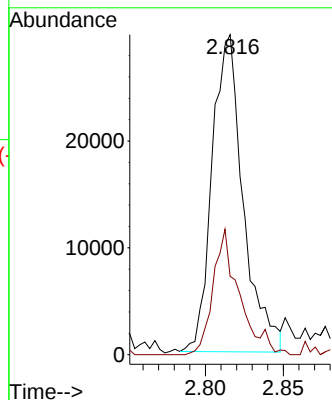
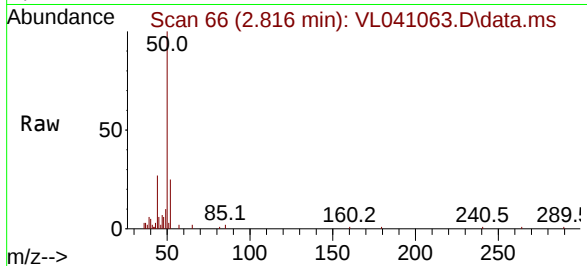
#4
Chloromethane
Concen: 0.588 ppbv
RT: 2.816 min Scan# 60
Delta R.T. 0.019 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion: 50 Resp: 41250
Ion Ratio Lower Upper
50 100
52 24.8 26.2 39.4

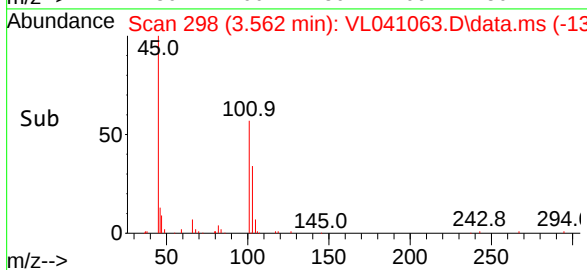
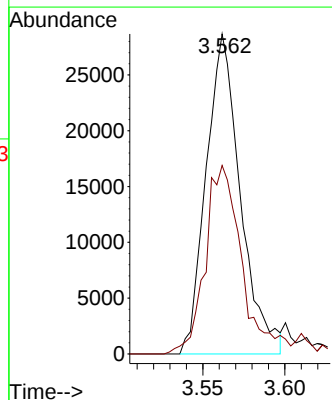
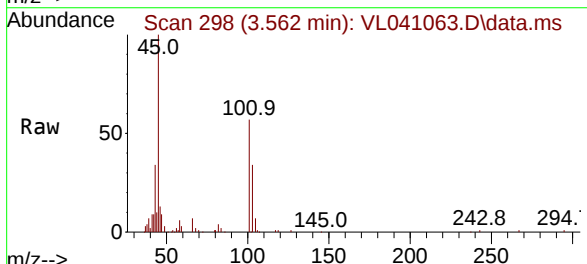
Manual Integrations
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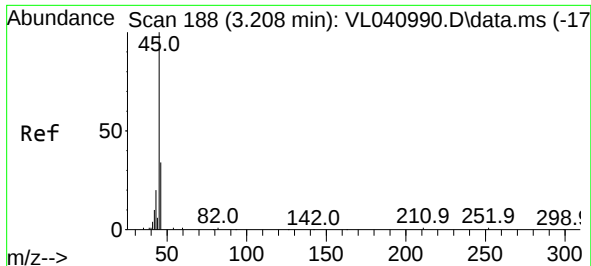
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#11
Trichlorofluoromethane
Concen: 0.210 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.013 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

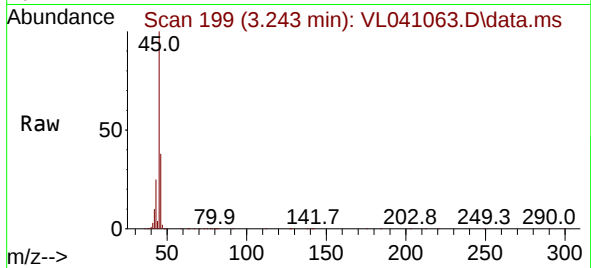
Tgt Ion:101 Resp: 41559
Ion Ratio Lower Upper
101 100
103 56.5 51.4 77.2





#13
Ethanol
Concen: 452.237 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.019 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

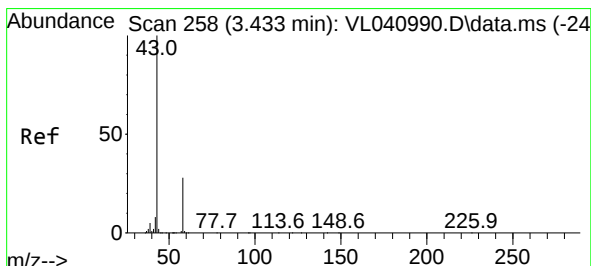
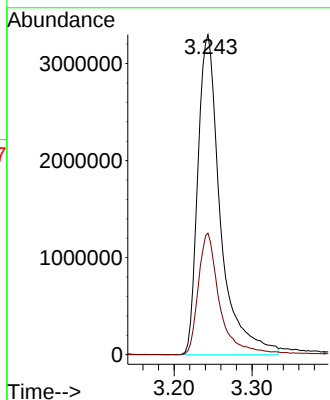
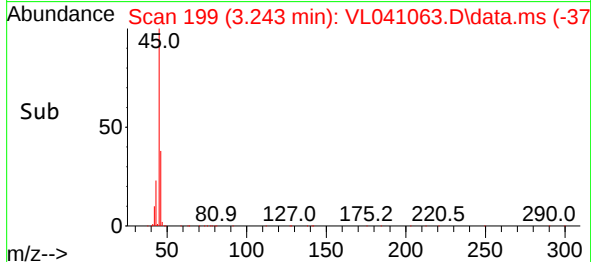
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



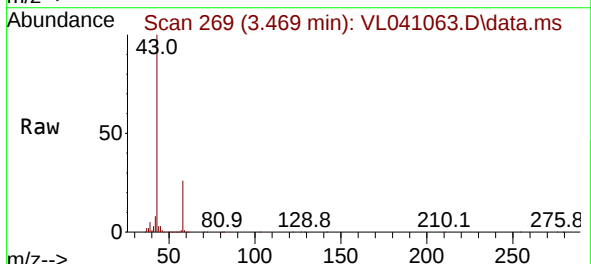
Tgt Ion: 45 Resp: 6618424
Ion Ratio Lower Upper
45 100
46 37.3 16.2 64.8

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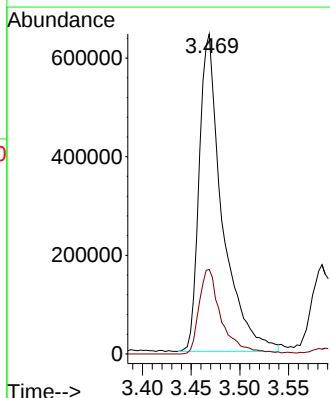
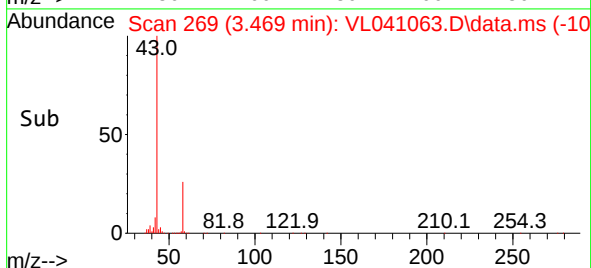
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

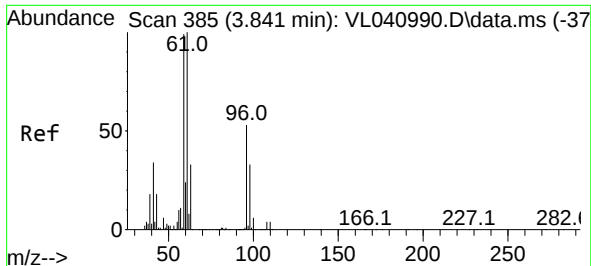


#15
Acetone
Concen: 7.443 ppbv
RT: 3.469 min Scan# 269
Delta R.T. 0.016 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25



Tgt Ion: 43 Resp: 1059401
Ion Ratio Lower Upper
43 100
58 26.1 22.2 33.2





#17

tert-Butyl alcohol

Concen: 0.233 ppbv m

RT: 3.893 min Scan# 401

Delta R.T. 0.029 min

Lab File: VL041063.D

Acq: 9 Feb 2024 18:25

Instrument :

MSVOA_L

ClientSampleId :

IA2RDUP

Tgt Ion: 59 Resp: 27220

Ion Ratio Lower Upper

59 100

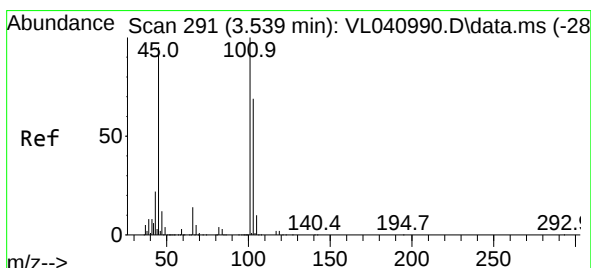
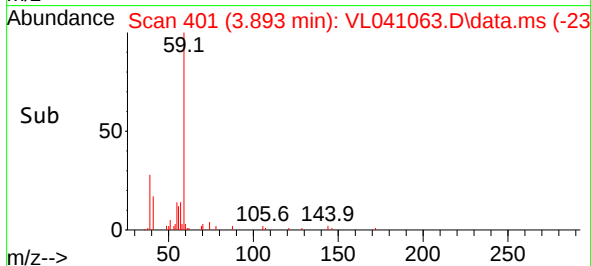
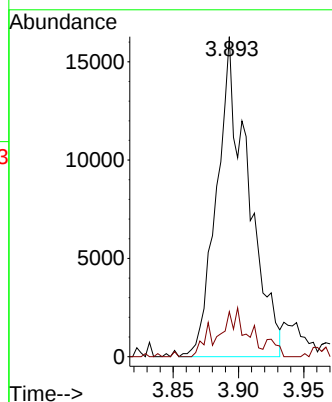
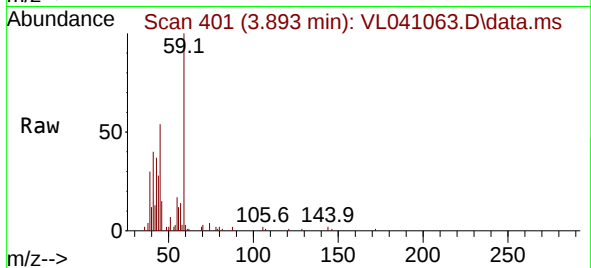
57 0.0 8.7 13.1

Manual Integrations

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Supervised By :Mahesh Dadoda 02/12/2024



#19

Isopropyl Alcohol

Concen: 14.795 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.023 min

Lab File: VL041063.D

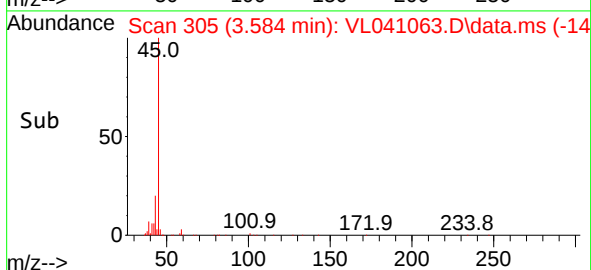
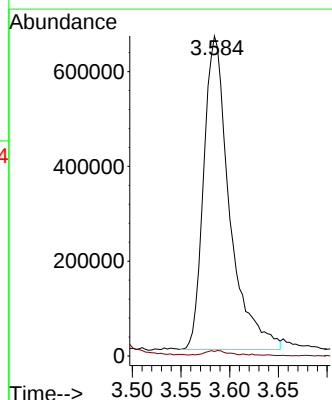
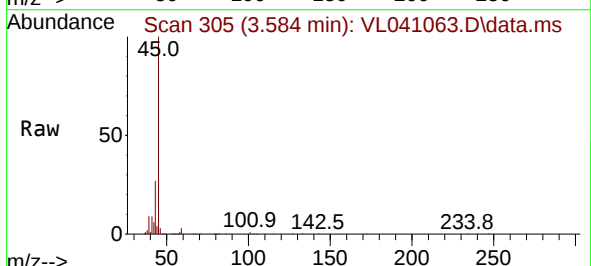
Acq: 9 Feb 2024 18:25

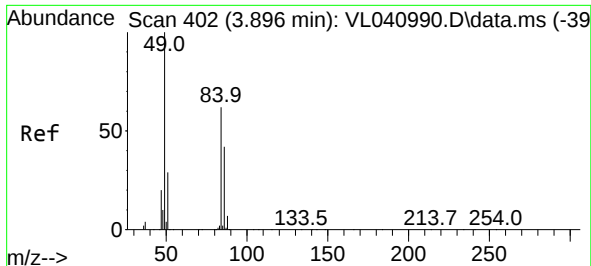
Tgt Ion: 45 Resp: 1219010

Ion Ratio Lower Upper

45 100

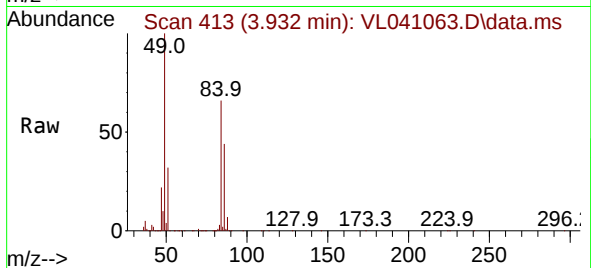
58 2.5 2.2 3.4





#20
Methylene Chloride
Concen: 36.184 ppbv
RT: 3.932 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

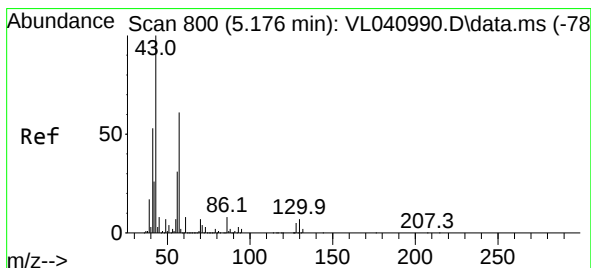
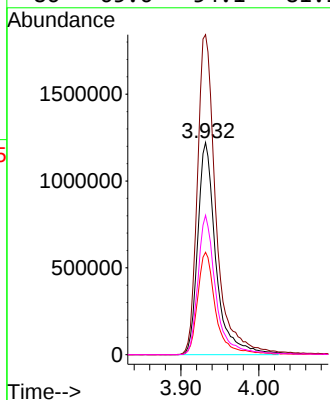
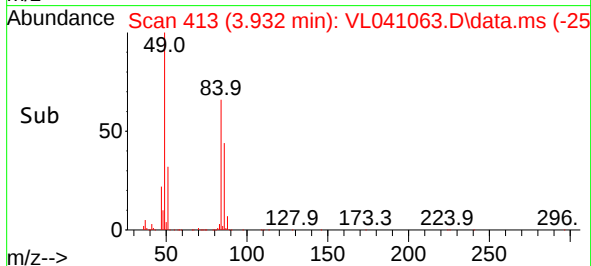
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



Tgt Ion: 84 Resp: 198187
Ion Ratio Lower Upper
84 100
49 150.6 128.1 192.1
51 48.2 36.5 54.7
86 65.6 54.1 81.1

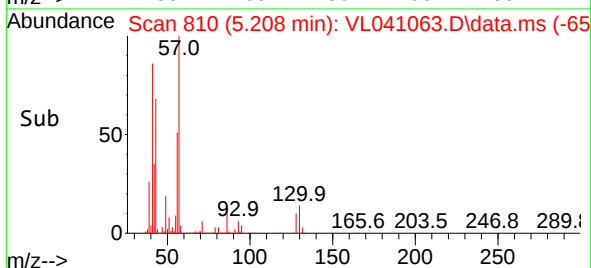
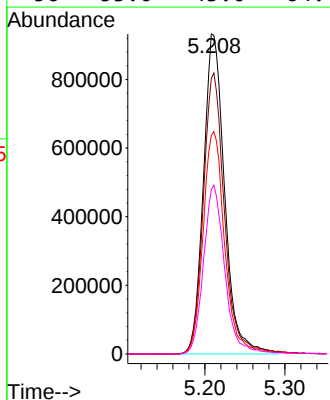
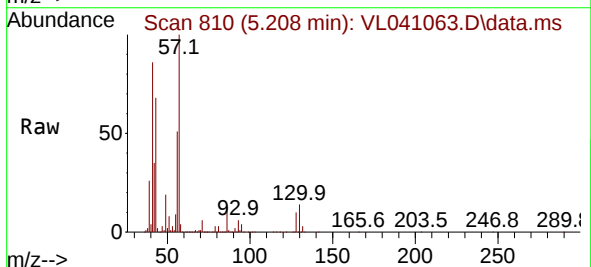
Manual Integrations
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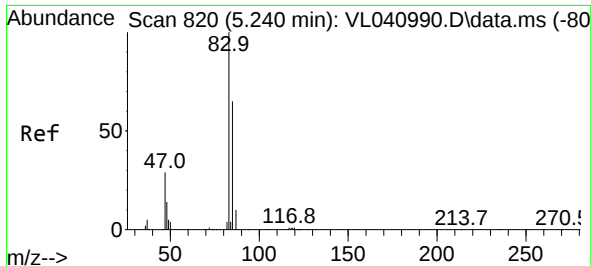
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#26
Hexane
Concen: 15.619 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

Tgt Ion: 57 Resp: 1718286
Ion Ratio Lower Upper
57 100
41 88.2 74.4 111.6
43 71.3 190.6 285.8#
56 53.0 43.0 64.4





#29

Chloroform

Concen: 0.194 ppbv m

RT: 5.269 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL041063.D

Acq: 9 Feb 2024 18:25

Instrument :

MSVOA_L

ClientSampleId :

IA2RDUP

Tgt Ion: 83 Resp: 3776

Ion Ratio Lower Upper

83 100

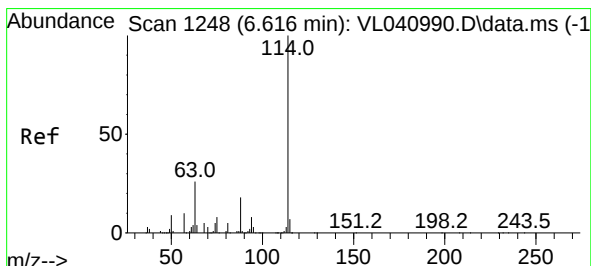
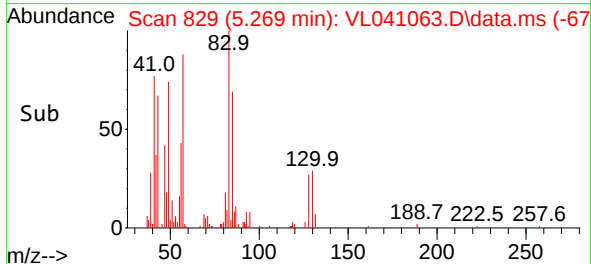
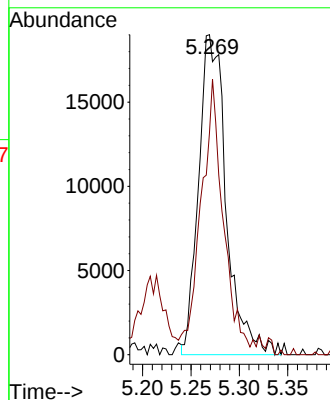
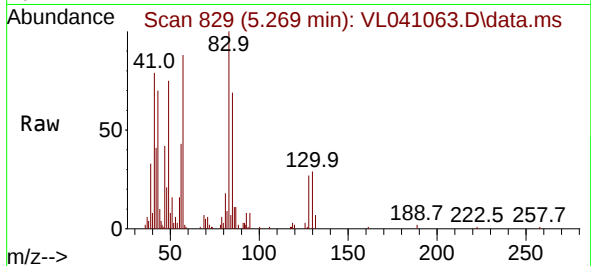
85 69.3 51.6 77.4

Manual Integrations

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Supervised By :Mahesh Dadoda 02/12/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. 0.007 min

Lab File: VL041063.D

Acq: 9 Feb 2024 18:25

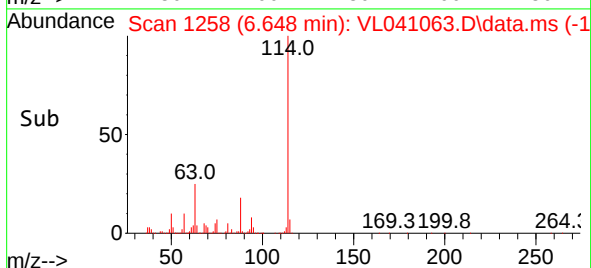
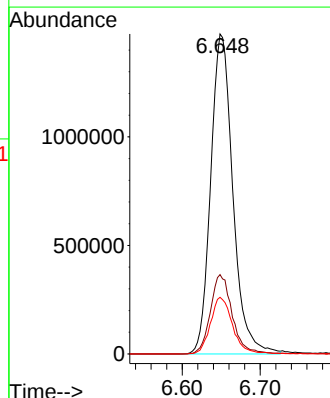
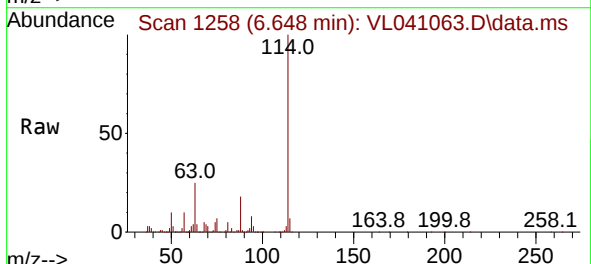
Tgt Ion:114 Resp: 2908808

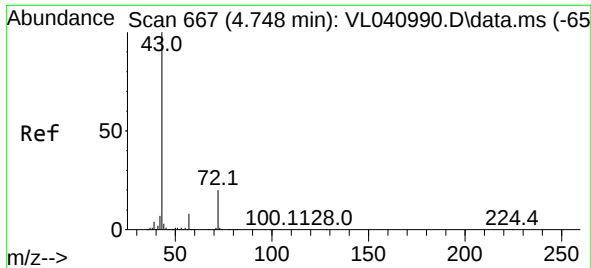
Ion Ratio Lower Upper

114 100

63 24.7 20.8 31.2

88 17.8 14.3 21.5





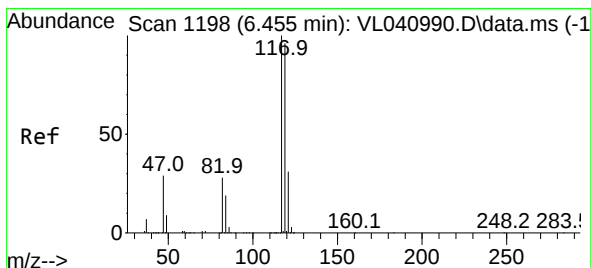
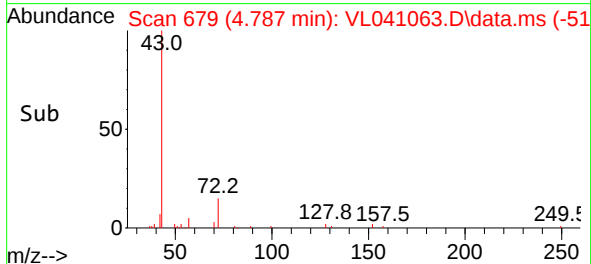
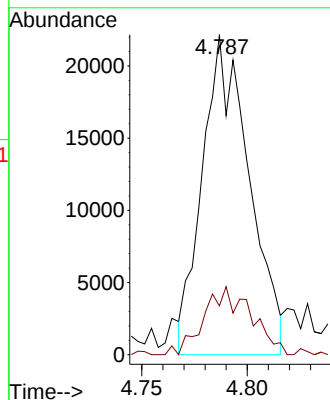
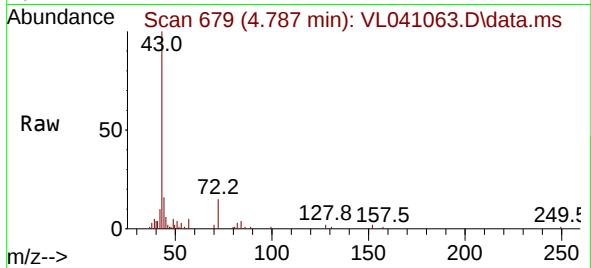
#34
2-Butanone
Concen: 0.245 ppbv m
RT: 4.787 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion: 43 Resp: 34019
Ion Ratio Lower Upper
43 100
72 22.6 17.5 26.3

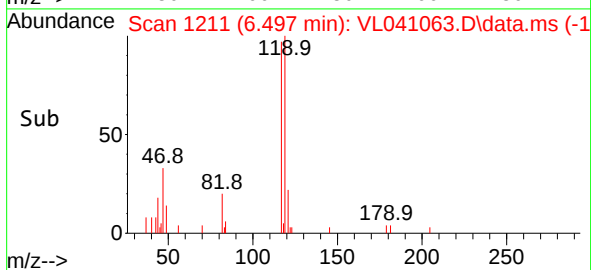
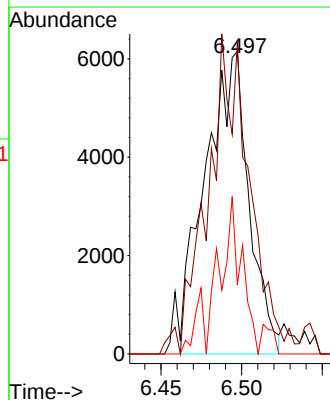
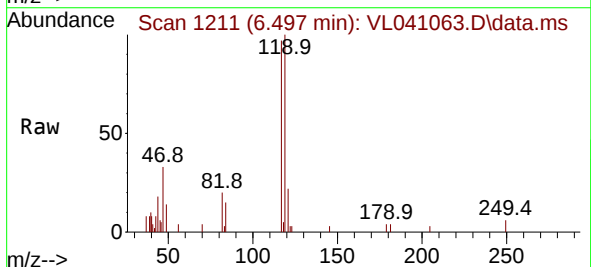
Manual Integrations
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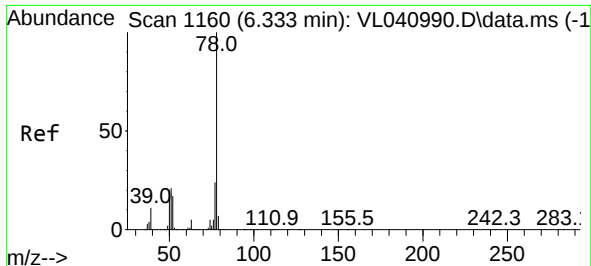
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. 0.016 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

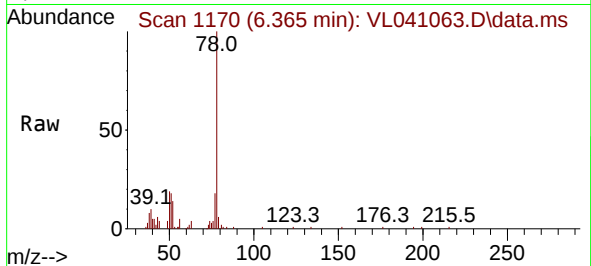
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Ion Ratio Lower Upper
117 100
119 103.1 76.9 115.3
121 22.9 24.7 37.1#





#36
Benzene
Concen: 0.232 ppbv m
RT: 6.365 min Scan# 1160
Delta R.T. 0.007 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

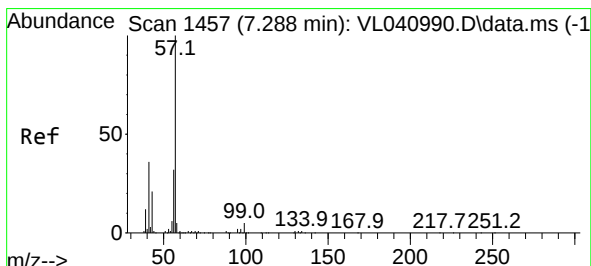
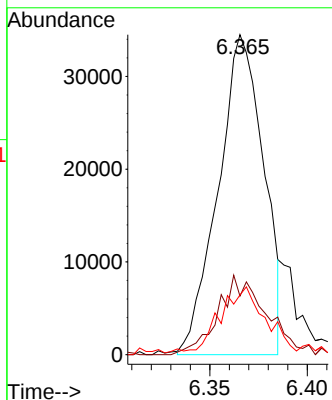
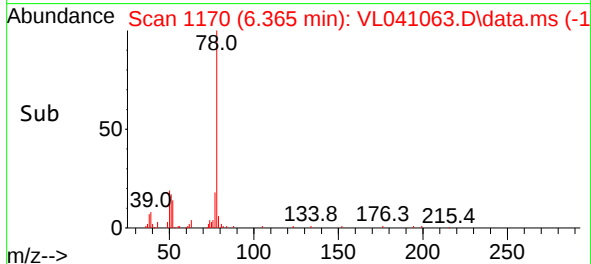
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



Tgt Ion: 78 Resp: 5578
Ion Ratio Lower Upper
78 100
77 18.3 19.0 28.4#
50 18.6 15.8 23.6#

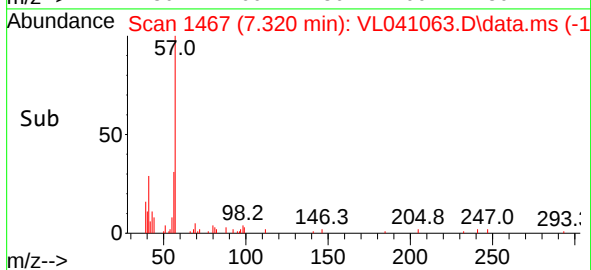
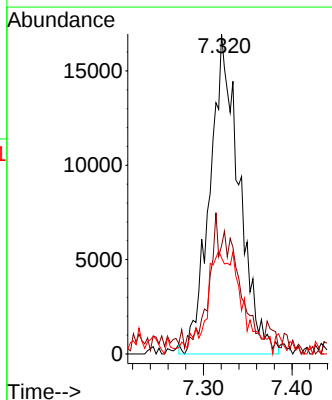
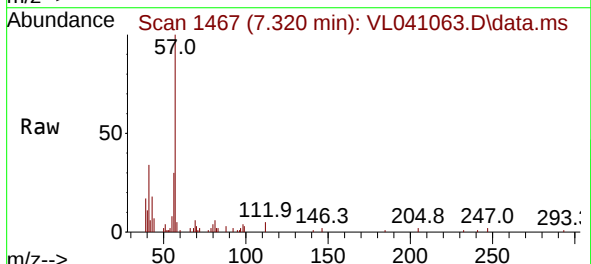
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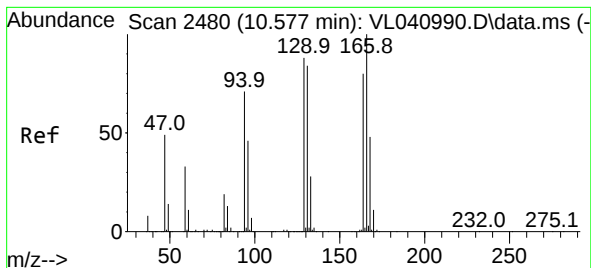
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#44
2,2,4-Trimethylpentane
Concen: 0.096 ppbv m
RT: 7.320 min Scan# 1467
Delta R.T. 0.007 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

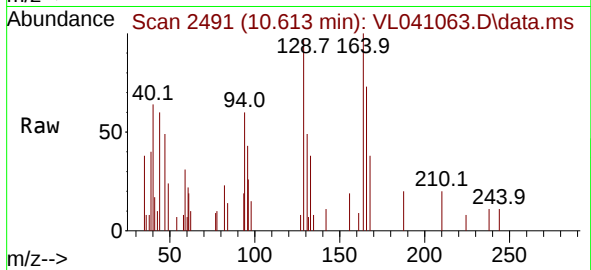
Tgt Ion: 57 Resp: 38842
Ion Ratio Lower Upper
57 100
41 51.5 28.6 43.0#
56 42.4 25.2 37.8#





#52
Tetrachloroethene
Concen: 0.040 ppbv m
RT: 10.613 min Scan# 2480
Delta R.T. 0.010 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

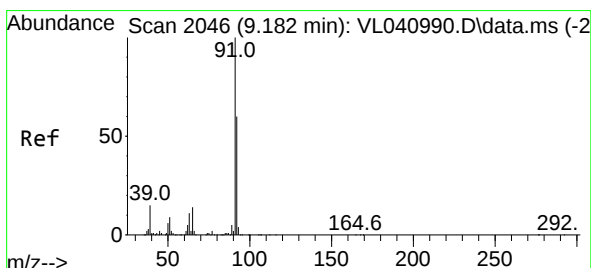
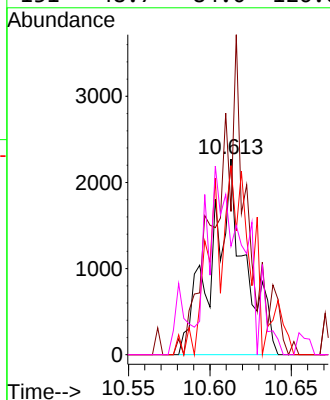
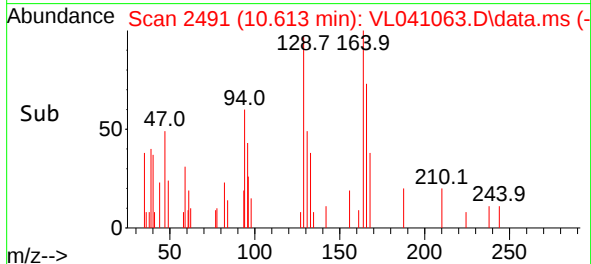
Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP



Tgt Ion:164 Resp: 319
Ion Ratio Lower Upper
164 100
166 73.2 100.2 150.2
129 96.7 87.9 131.9
131 48.7 84.0 126.0#

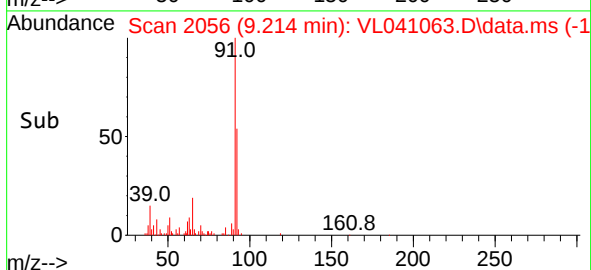
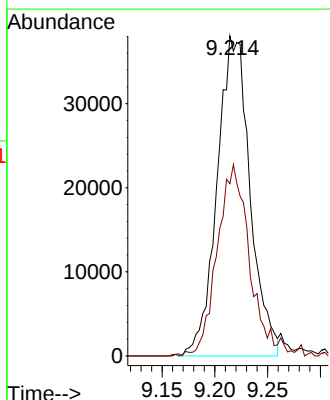
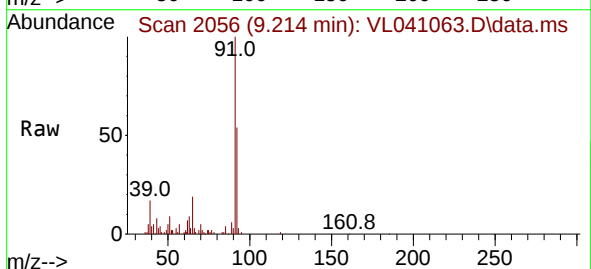
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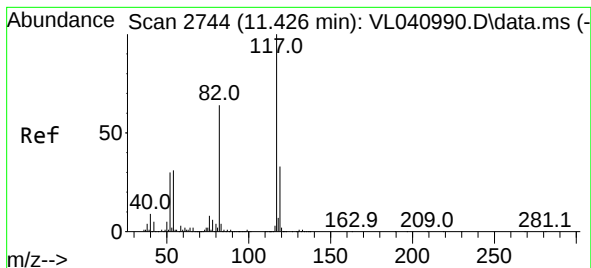
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#53
Toluene
Concen: 0.313 ppbv m
RT: 9.214 min Scan# 2056
Delta R.T. 0.007 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

Tgt Ion: 91 Resp: 82488
Ion Ratio Lower Upper
91 100
92 59.5 48.6 72.8





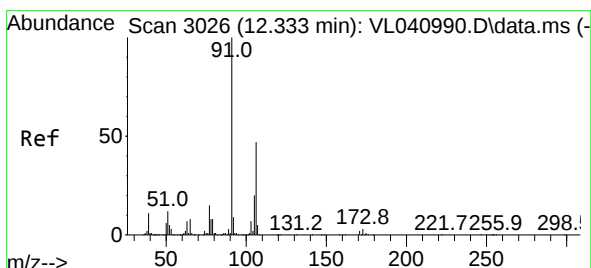
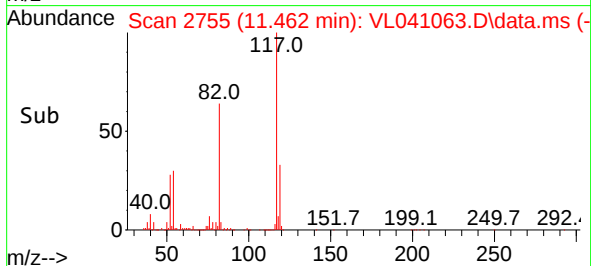
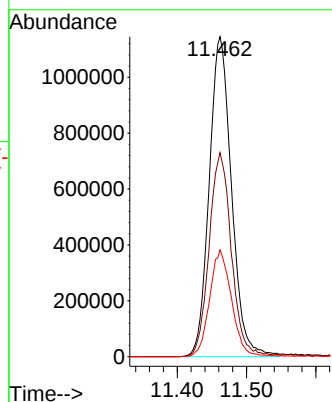
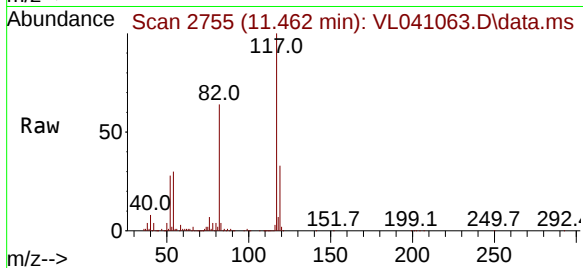
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

Instrument :
MSVOA_L
ClientSampleId :
IA2RDUP

Tgt Ion:117 Resp: 256138
Ion Ratio Lower Upper
117 100
82 64.3 51.7 77.5
119 32.9 23.8 35.6

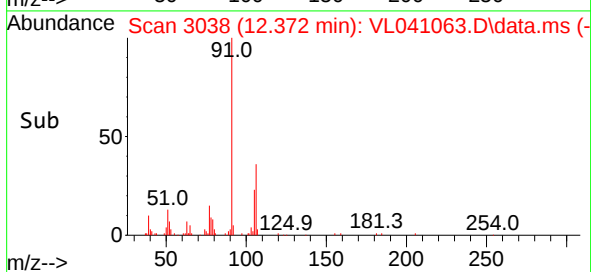
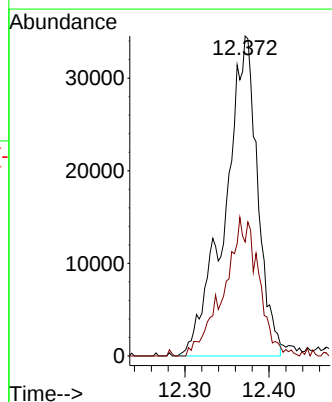
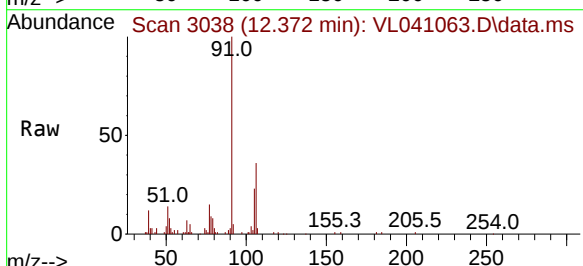
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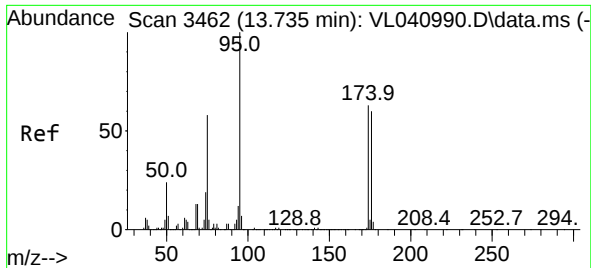
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#59
m/p-Xylene
Concen: 0.311 ppbv m
RT: 12.372 min Scan# 3038
Delta R.T. 0.016 min
Lab File: VL041063.D
Acq: 9 Feb 2024 18:25

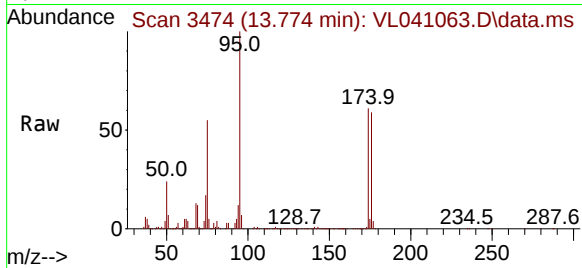
Tgt Ion: 91 Resp: 93405
Ion Ratio Lower Upper
91 100
106 45.9 34.9 52.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.060 ppbv
 RT: 13.774 min Scan# 3462
 Delta R.T. 0.013 min
 Lab File: VL041063.D
 Acq: 9 Feb 2024 18:25

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDUP



Tgt Ion: 95 Resp: 1946334
 Ion Ratio Lower Upper
 95 100
 174 62.7 49.1 73.7
 175 4.8 3.7 5.5

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

