

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041056.D
 Acq On : 9 Feb 2024 13:47
 Operator : SY/MD
 Sample : P1420-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

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

Quant Time: Feb 12 00:46:22 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	5.185	49	1121373	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3126462	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2816865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2107313	9.905	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.722	85	119181	0.481	ppbv	95
3) Chlorodifluoromethane	2.668	51	60638m	0.322	ppbv	
4) Chloromethane	2.803	50	62532	0.885	ppbv	89
11) Trichlorofluoromethane	3.558	101	40697	0.204	ppbv	91
13) Ethanol	3.240	45	10328648	700.521	ppbv	97
15) Acetone	3.459	43	2368831	16.519	ppbv	98
17) tert-Butyl alcohol	3.886	59	47192m	0.401	ppbv	
19) Isopropyl Alcohol	3.581	45	4628087	55.754	ppbv #	96
20) Methylene Chloride	3.925	84	1761416	31.921	ppbv	97
26) Hexane	5.205	57	2026899	18.288	ppbv #	38
29) Chloroform	5.266	83	117810	0.599	ppbv	94
30) Cyclohexane	6.594	84	8951m	0.096	ppbv	
34) 2-Butanone	4.783	43	37075	0.249	ppbv	91
35) Carbon Tetrachloride	6.481	117	12871m	0.062	ppbv	
36) Benzene	6.362	78	114692	0.444	ppbv	94
44) 2,2,4-Trimethylpentane	7.320	57	52663	0.121	ppbv #	80
53) Toluene	9.214	91	150819	0.533	ppbv	98
59) m/p-Xylene	12.368	91	145616m	0.442	ppbv	
74) 1,2,4-Trimethylbenzene	16.105	105	27276m	0.077	ppbv	
76) 1,4-Dichlorobenzene	16.458	146	14755m	0.074	ppbv	

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

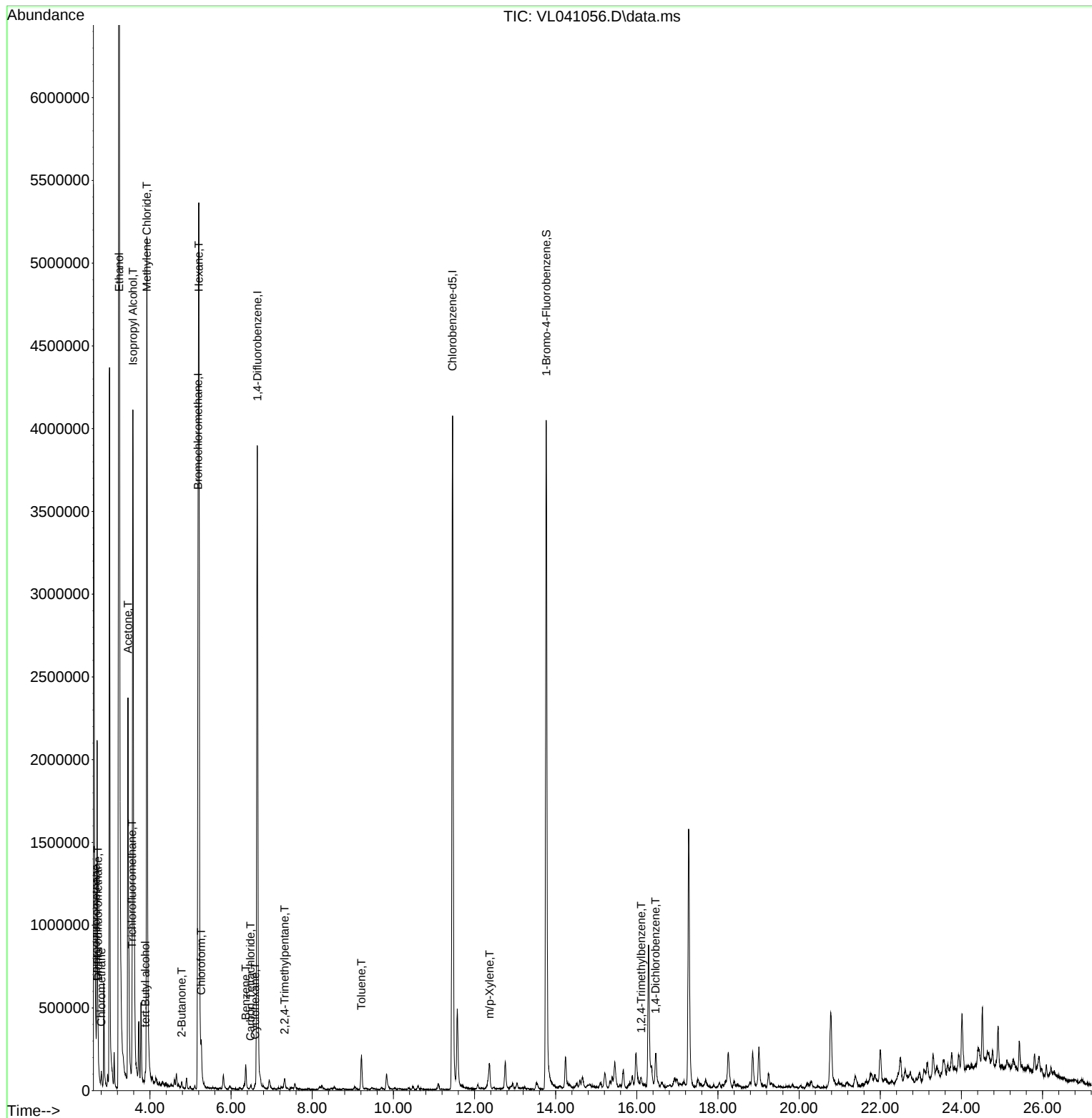
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
Data File : VL041056.D
Acq On : 9 Feb 2024 13:47
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

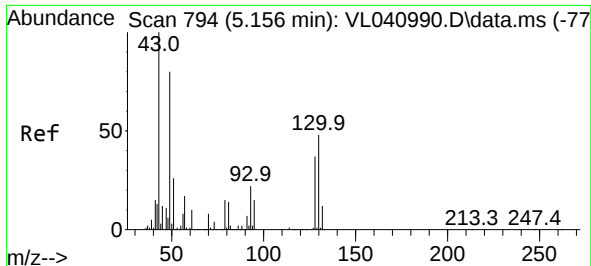
Instrument :
MSVOA_L
ClientSampleId :
IA3

Quant Time: Feb 12 00:46:22 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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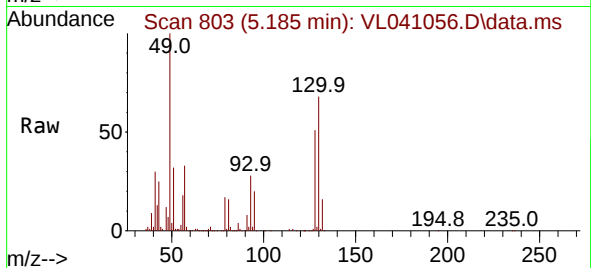
Reviewed By : Semsettin Yesilyurt 02/12/2024
Supervised By : Mahesh Dadoda 02/12/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

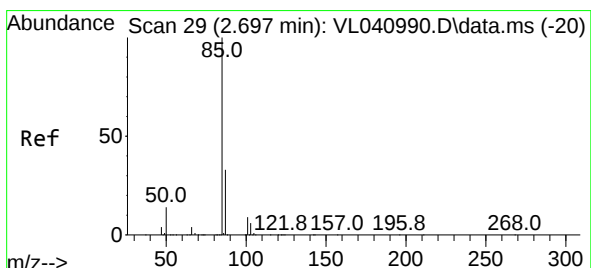
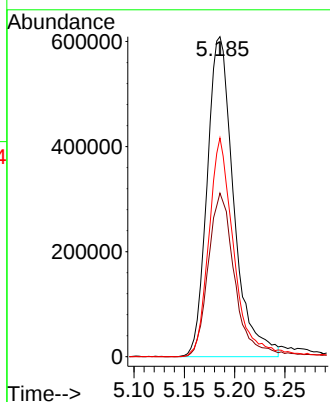
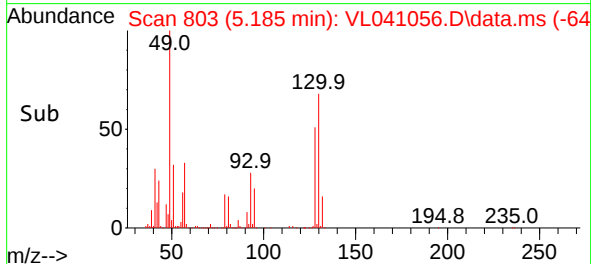
Instrument :
MSVOA_L
ClientSampleId :
IA3



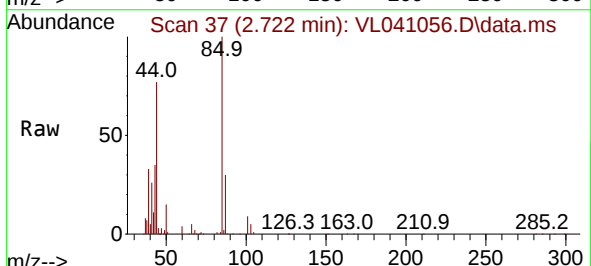
Tgt Ion: 49 Resp: 112137
Ion Ratio Lower Upper
49 100
128 52.1 23.9 71.7
130 65.8 31.1 93.5

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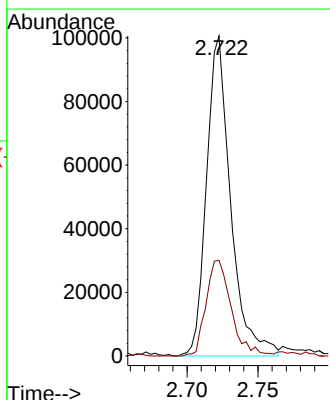
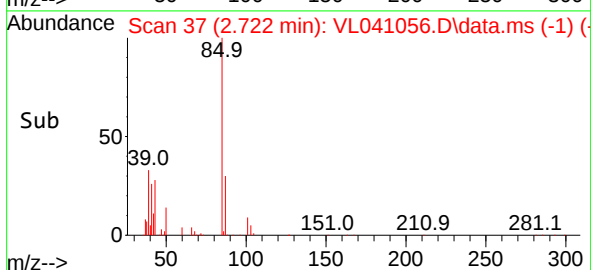
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

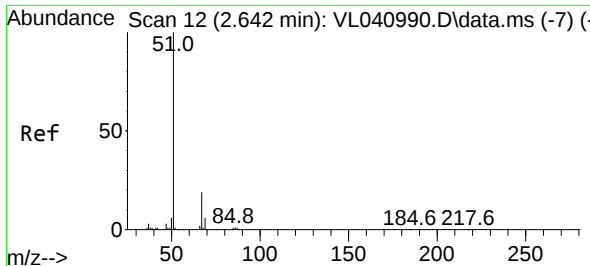


#2
Dichlorodifluoromethane
Concen: 0.481 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47



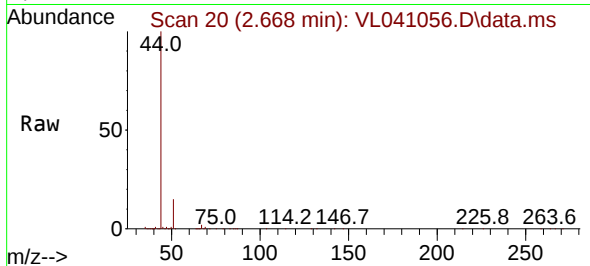
Tgt Ion: 85 Resp: 119181
Ion Ratio Lower Upper
85 100
87 29.9 26.3 39.5





#3
Chlorodifluoromethane
Concen: 0.322 ppbv m
RT: 2.668 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

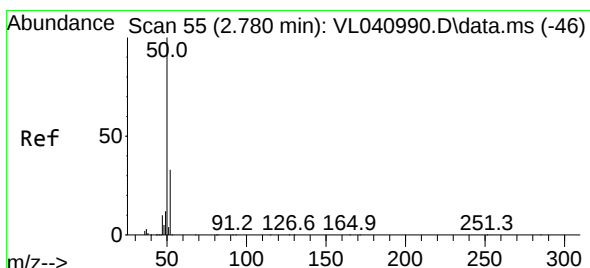
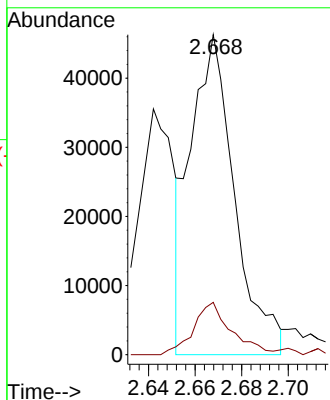
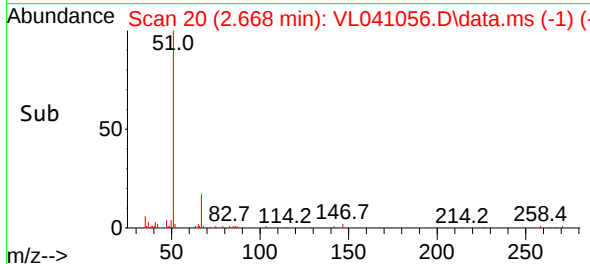
Instrument :
MSVOA_L
ClientSampleId :
IA3



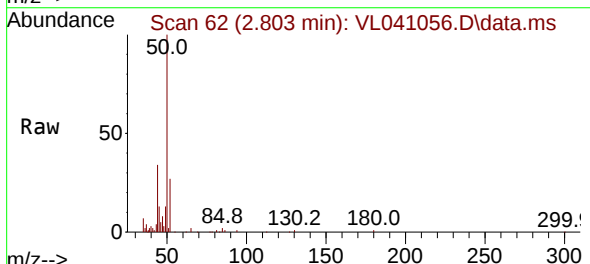
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Ion Ratio Lower Upper
51 100
67 15.7 14.8 22.2

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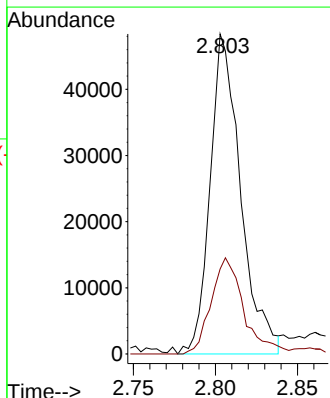
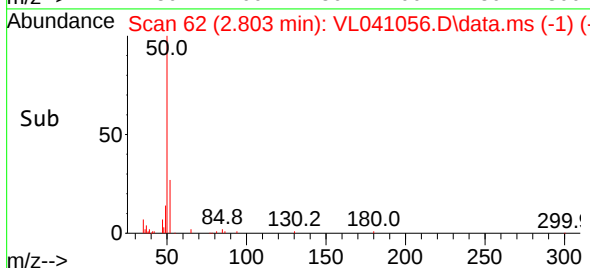
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

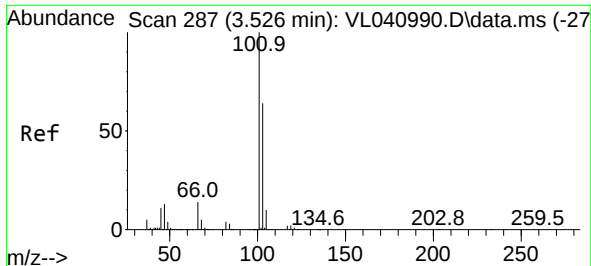


#4
Chloromethane
Concen: 0.885 ppbv
RT: 2.803 min Scan# 62
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47



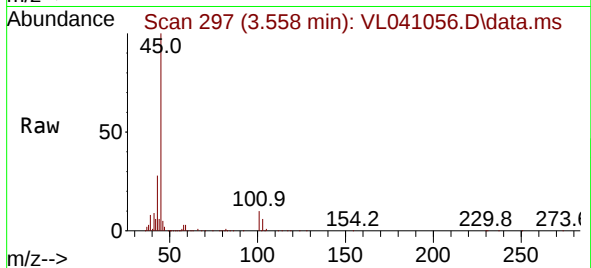
Tgt Ion: 50 Resp: 62532
Ion Ratio Lower Upper
50 100
52 26.6 26.2 39.4





#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 3.558 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

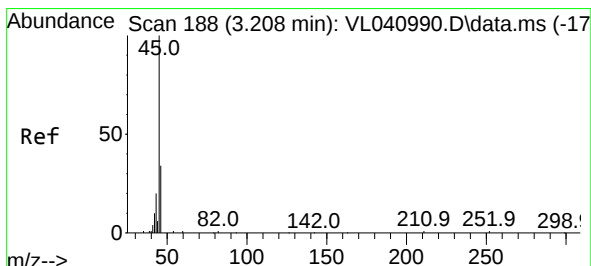
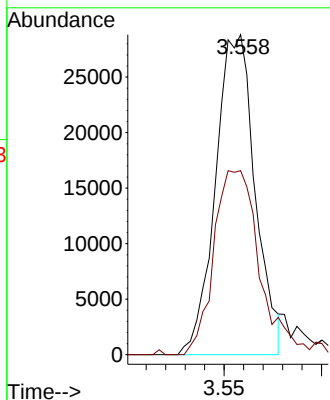
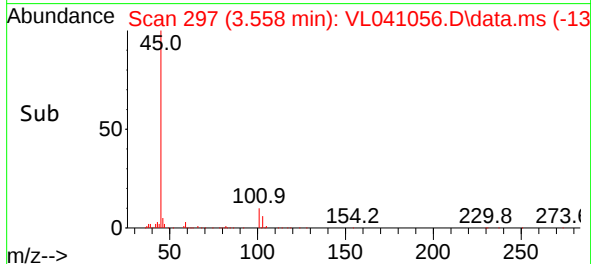
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:101 Resp: 4069
Ion Ratio Lower Upper
101 100
103 57.5 51.4 77.2

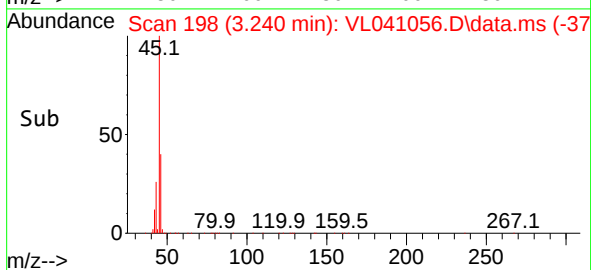
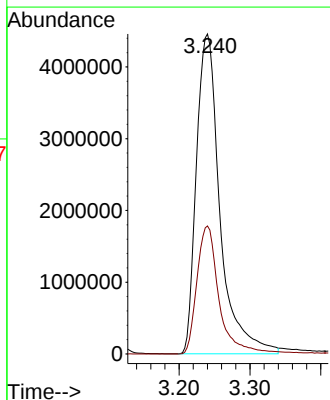
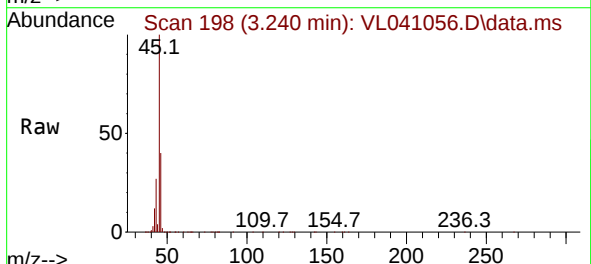
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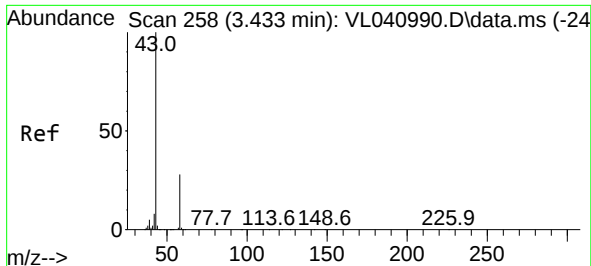
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#13
Ethanol
Concen: 700.521 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.016 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

Tgt Ion: 45 Resp:10328648
Ion Ratio Lower Upper
45 100
46 38.6 16.2 64.8





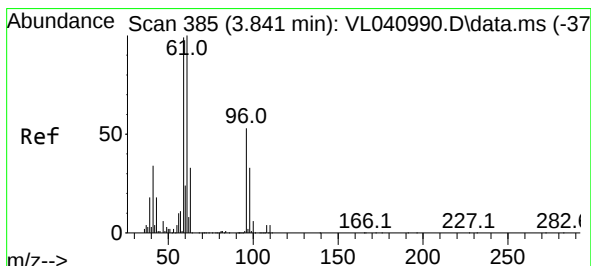
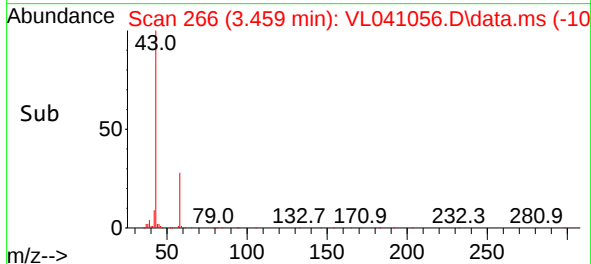
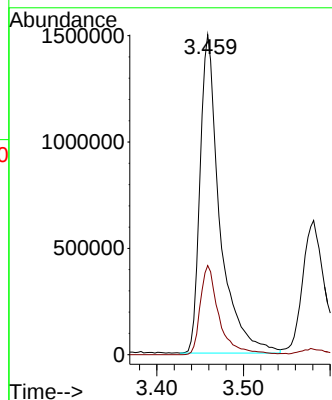
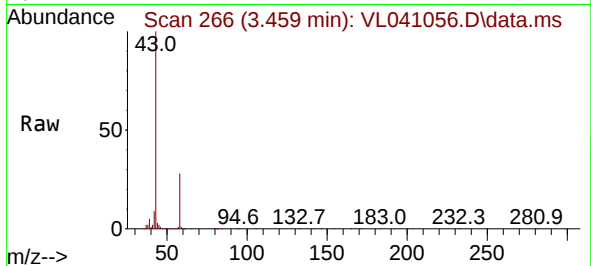
#15
Acetone
Concen: 16.519 ppbv
RT: 3.459 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 236883
Ion Ratio Lower Upper
43 100
58 26.8 22.2 33.2

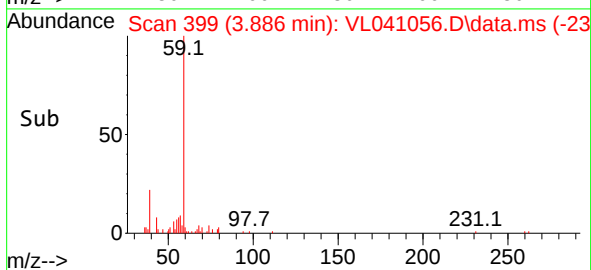
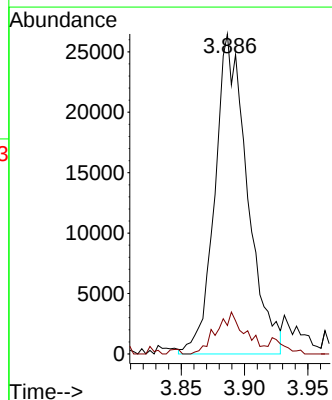
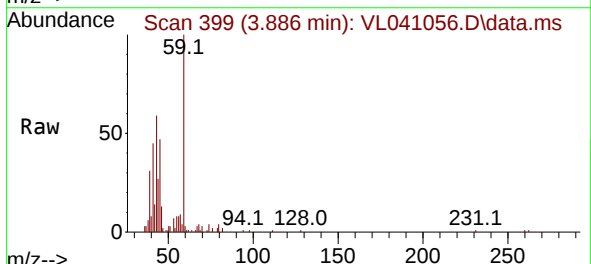
Manual Integrations
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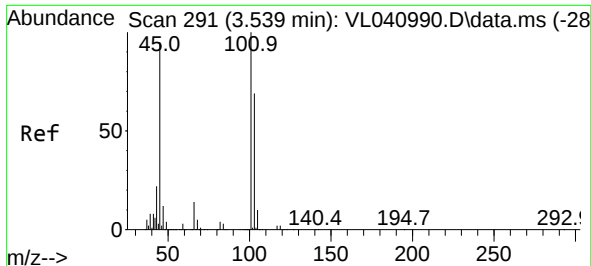
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#17
tert-Butyl alcohol
Concen: 0.401 ppbv m
RT: 3.886 min Scan# 399
Delta R.T. 0.022 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

Tgt Ion: 59 Resp: 47192
Ion Ratio Lower Upper
59 100
57 41.1 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 55.754 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.019 min

Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 45 Resp: 462808

Ion Ratio Lower Upper

45 100

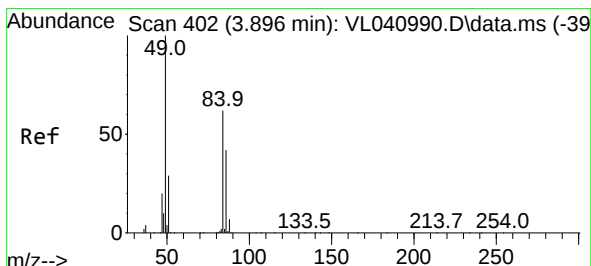
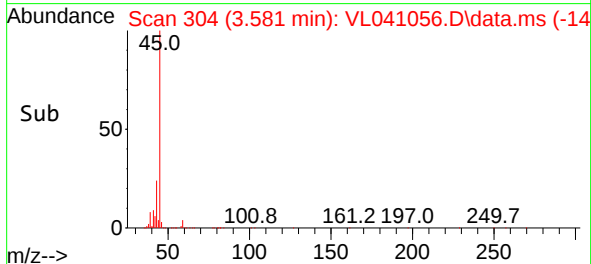
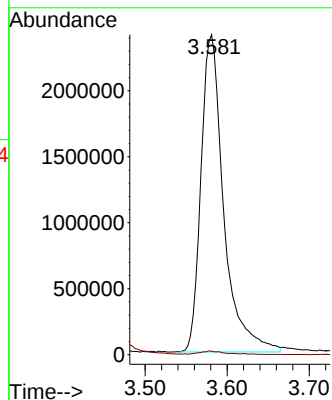
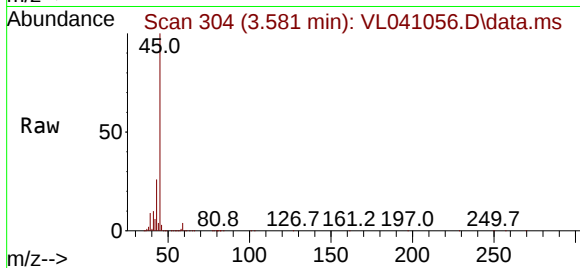
58 1.6 2.2 3.4

Manual Integrations

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Supervised By :Mahesh Dadoda 02/12/2024



#20

Methylene Chloride

Concen: 31.921 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.006 min

Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

Tgt Ion: 84 Resp: 1761416

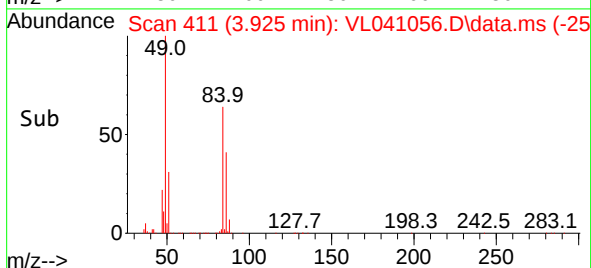
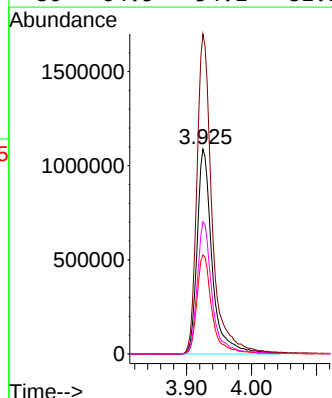
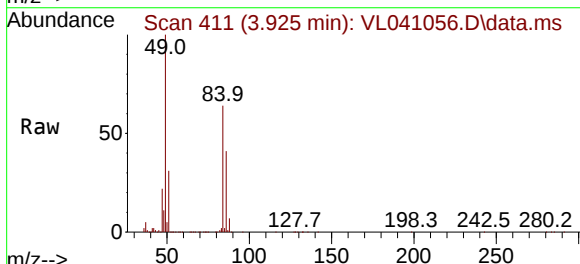
Ion Ratio Lower Upper

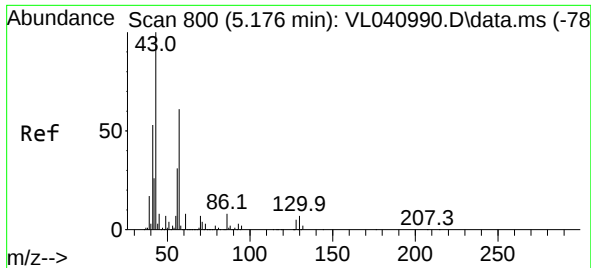
84 100

49 156.2 128.1 192.1

51 48.3 36.5 54.7

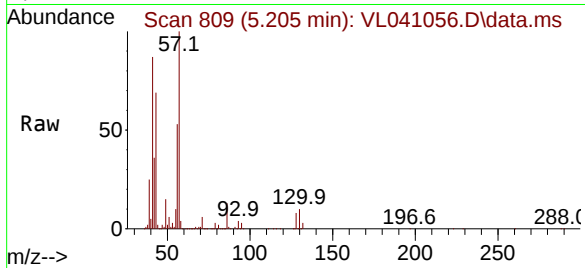
86 64.5 54.1 81.1





#26
Hexane
Concen: 18.288 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

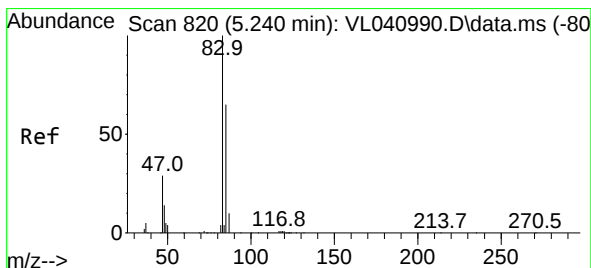
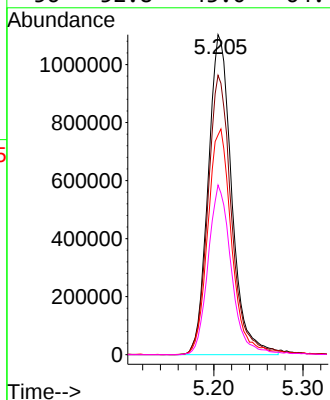
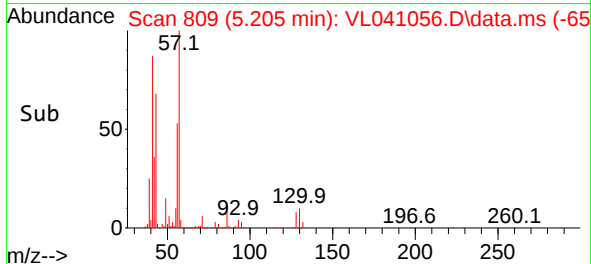
Instrument :
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IA3



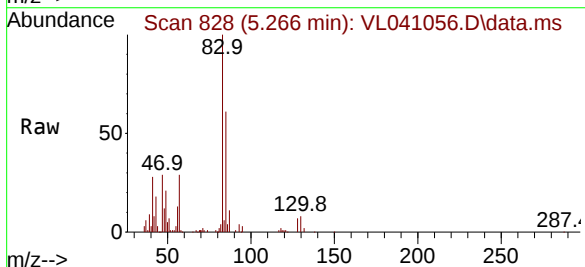
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Ion Ratio Lower Upper
57 100
41 88.2 74.4 111.6
43 72.1 190.6 285.8
56 52.8 43.0 64.4

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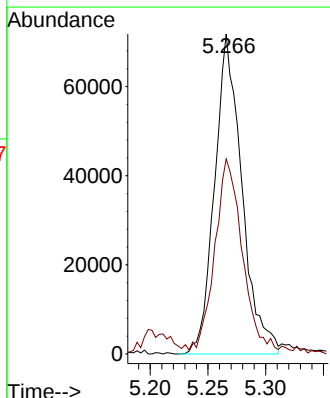
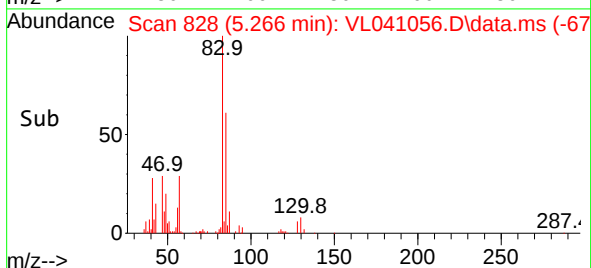
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

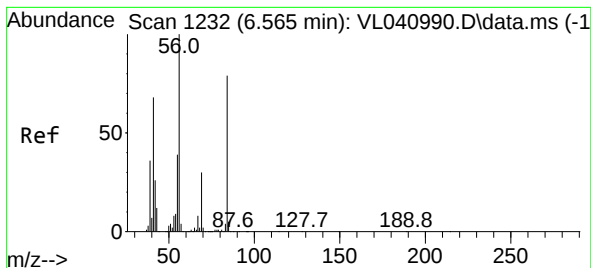


#29
Chloroform
Concen: 0.599 ppbv
RT: 5.266 min Scan# 828
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47



Tgt Ion: 83 Resp: 117810
Ion Ratio Lower Upper
83 100
85 59.6 51.6 77.4





#30

Cyclohexane

Concen: 0.096 ppbv m

RT: 6.594 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

Instrument :

MSVOA_L

ClientSampleId :

IA3

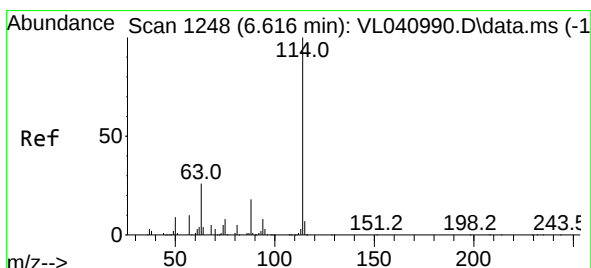
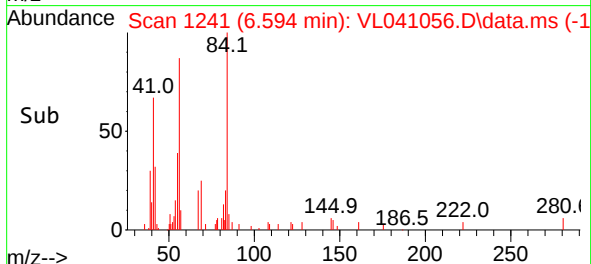
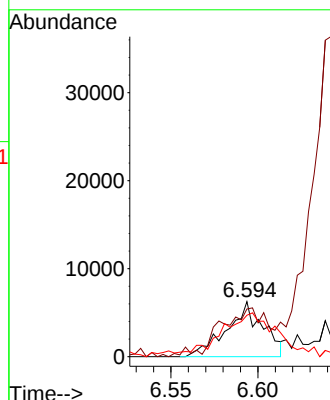
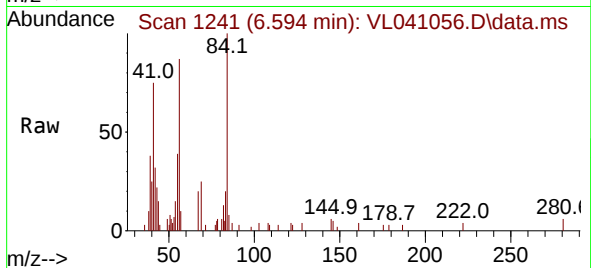
Tgt Ion: 84 Resp: 895

Ion	Ratio	Lower	Upper
84	100		
56	116.6	111.7	167.5
41	124.0	71.0	106.6

Manual Integrations

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Supervised By :Mahesh Dadoda 02/12/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 1257

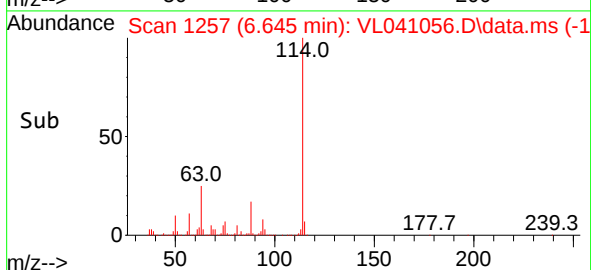
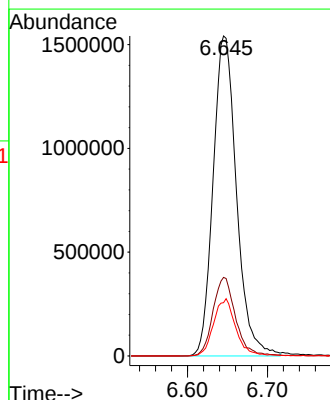
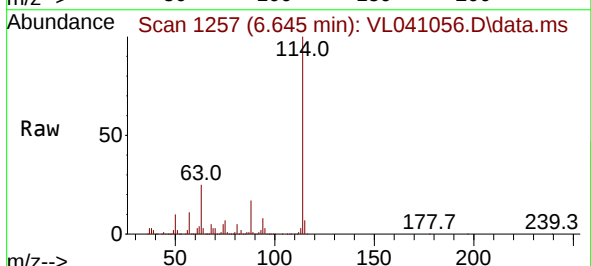
Delta R.T. 0.003 min

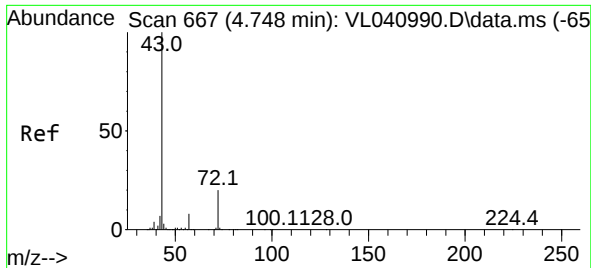
Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

Tgt Ion:114 Resp: 3126462

Ion	Ratio	Lower	Upper
114	100		
63	23.9	20.8	31.2
88	17.1	14.3	21.5





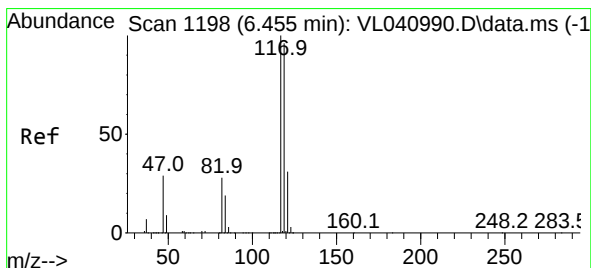
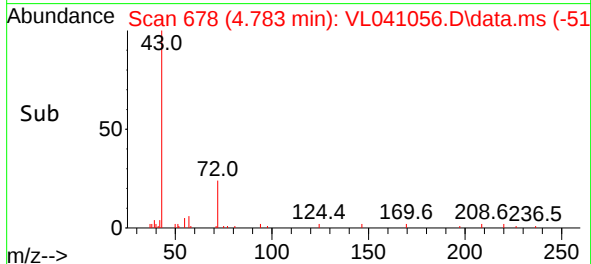
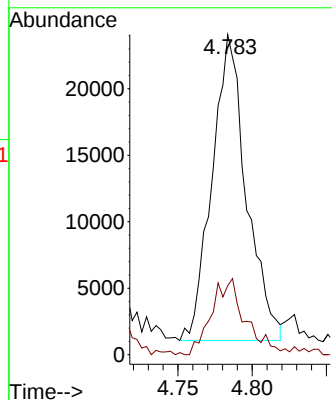
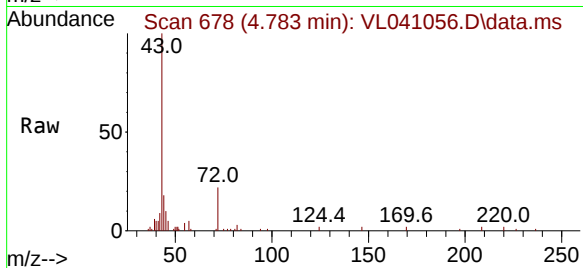
#34
2-Butanone
Concen: 0.249 ppbv
RT: 4.783 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 3707
Ion Ratio Lower Upper
43 100
72 26.2 17.5 26.3

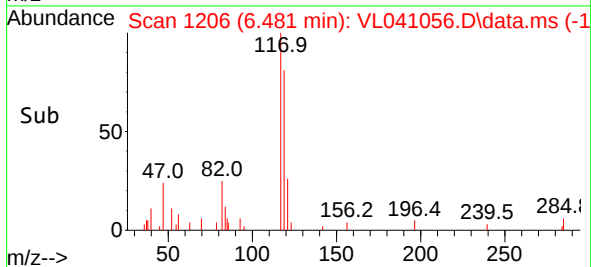
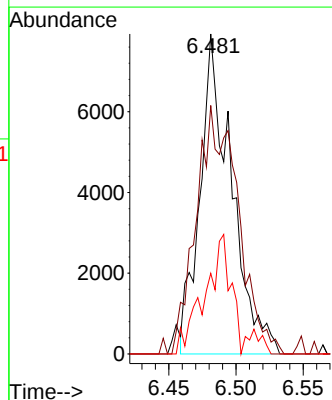
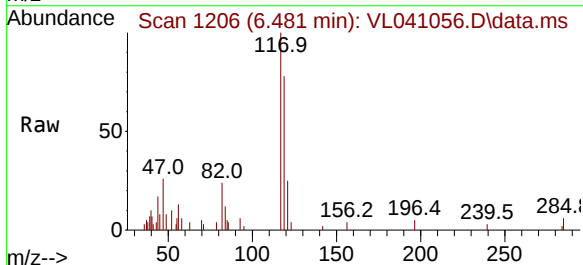
Manual Integrations
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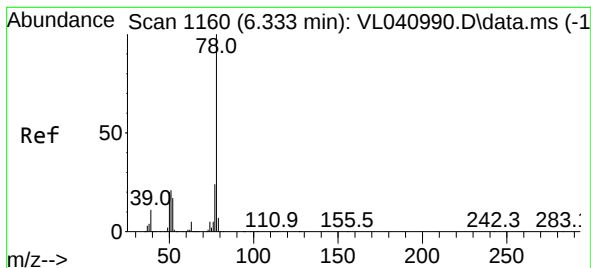
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 6.481 min Scan# 1206
Delta R.T. 0.000 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

Tgt Ion:117 Resp: 12871
Ion Ratio Lower Upper
117 100
119 77.7 76.9 115.3
121 25.2 24.7 37.1





#36

Benzene

Concen: 0.444 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. 0.003 min

Lab File: VL041056.D

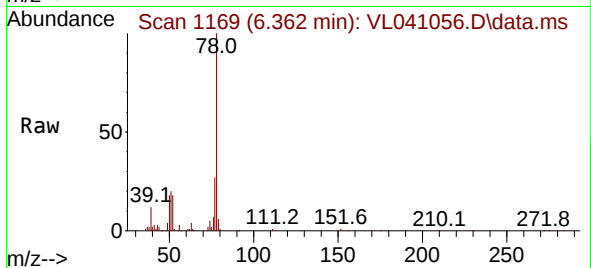
Acq: 9 Feb 2024 13:47

Instrument :

MSVOA_L

ClientSampleId :

IA3



Tgt Ion: 78 Resp: 114692

Ion Ratio Lower Upper

78 100

77 27.0 19.0 28.4

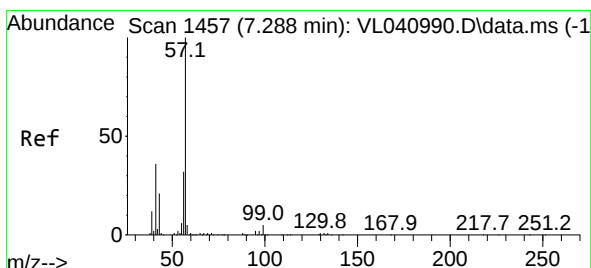
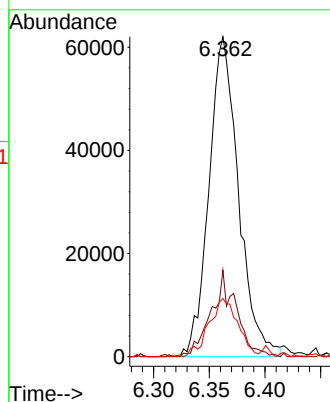
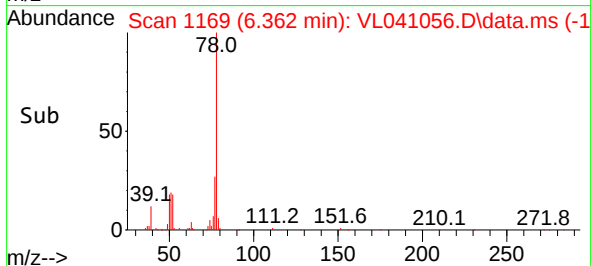
50 17.6 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#44

2,2,4-Trimethylpentane

Concen: 0.121 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.006 min

Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

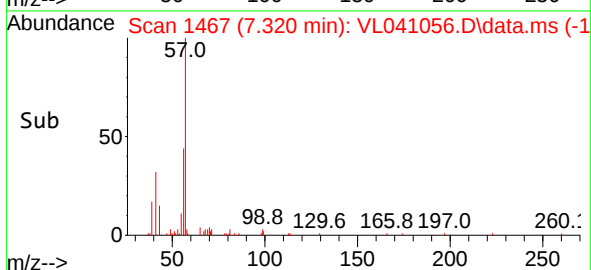
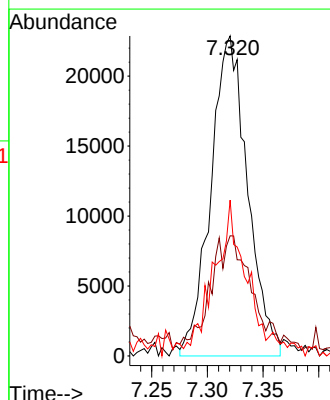
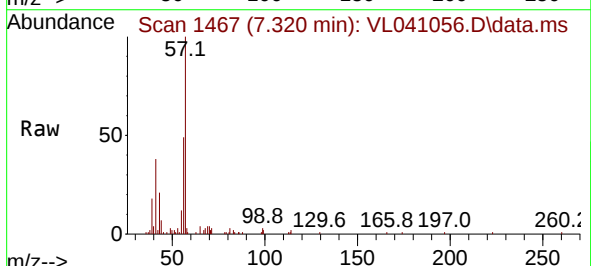
Tgt Ion: 57 Resp: 52663

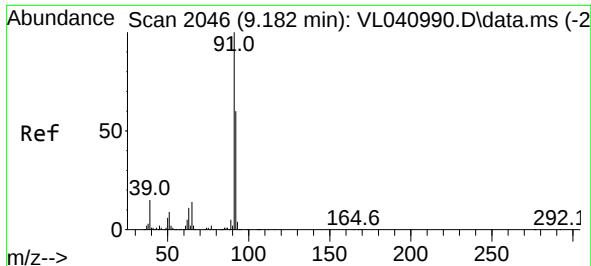
Ion Ratio Lower Upper

57 100

41 45.1 28.6 43.0#

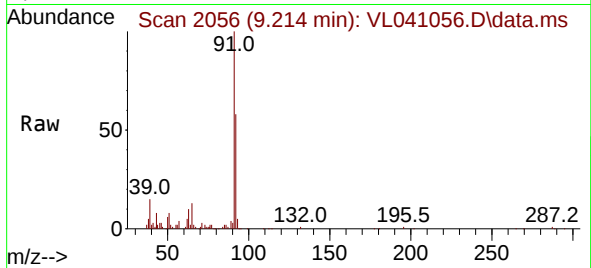
56 45.8 25.2 37.8#





#53
Toluene
Concen: 0.533 ppbv
RT: 9.214 min Scan# 2046
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

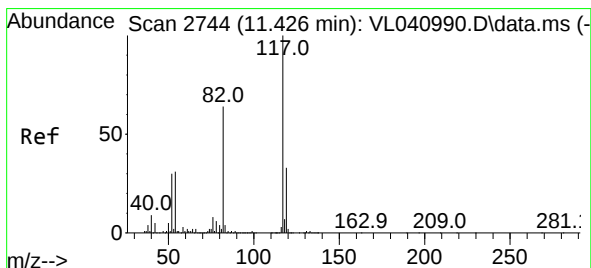
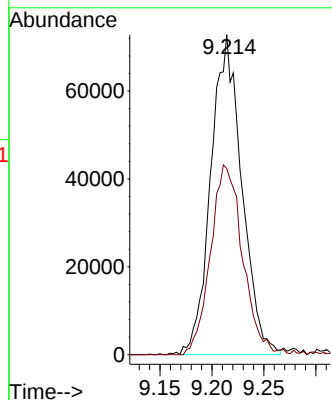
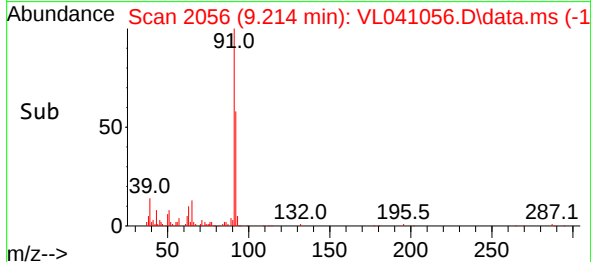
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 91 Resp: 150819
Ion Ratio Lower Upper
91 100
92 61.8 48.6 72.8

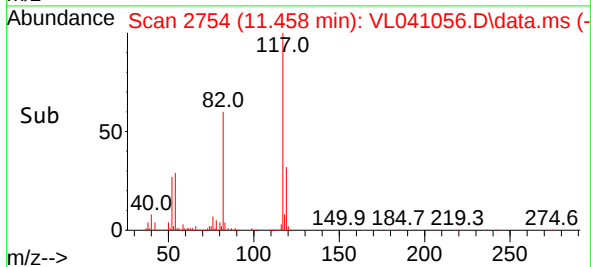
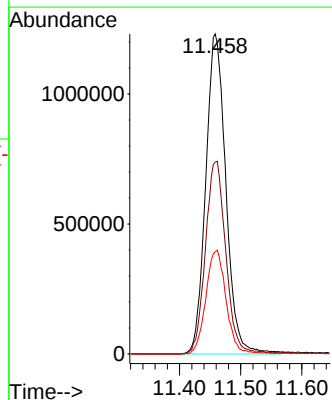
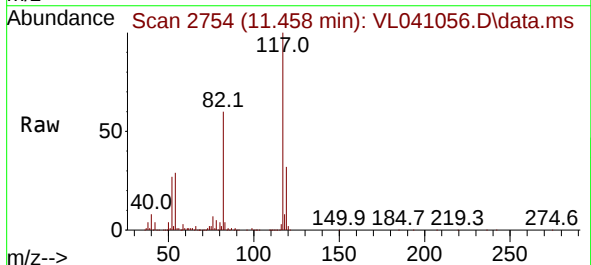
Manual Integrations
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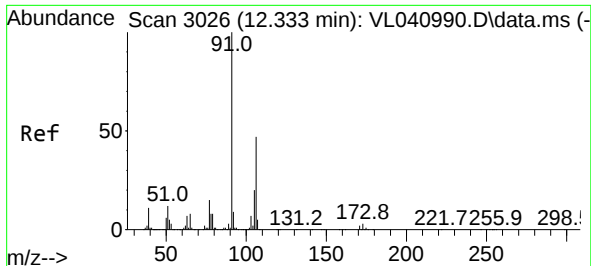
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. 0.006 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

Tgt Ion:117 Resp: 2816865
Ion Ratio Lower Upper
117 100
82 61.1 51.7 77.5
119 32.8 23.8 35.6





#59

m/p-Xylene

Concen: 0.442 ppbv m

RT: 12.368 min Scan# 3026

Delta R.T. 0.013 min

Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 91 Resp: 145610

Ion Ratio Lower Upper

91 100

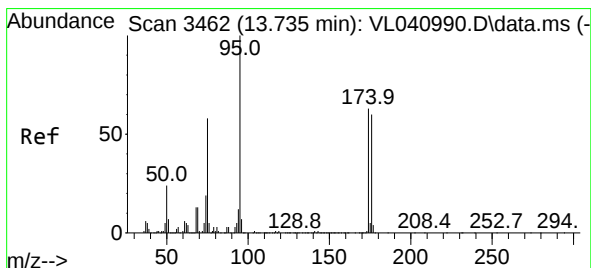
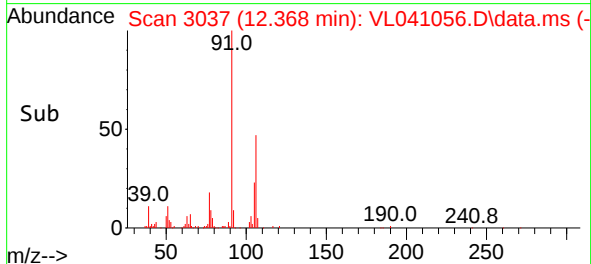
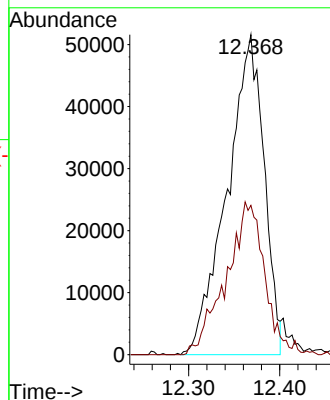
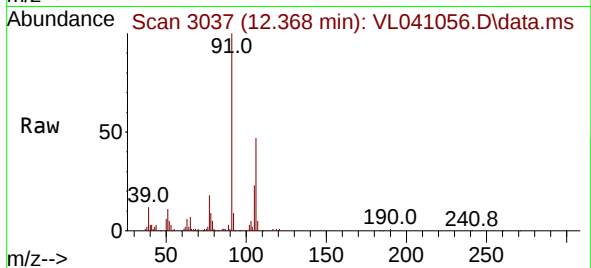
106 49.8 34.9 52.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.905 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.006 min

Lab File: VL041056.D

Acq: 9 Feb 2024 13:47

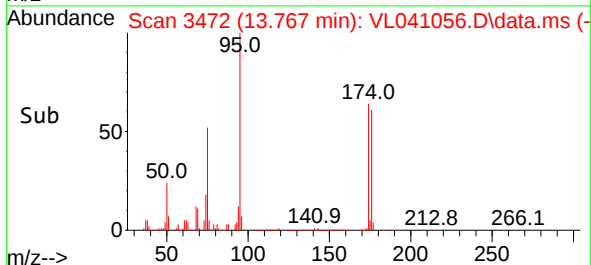
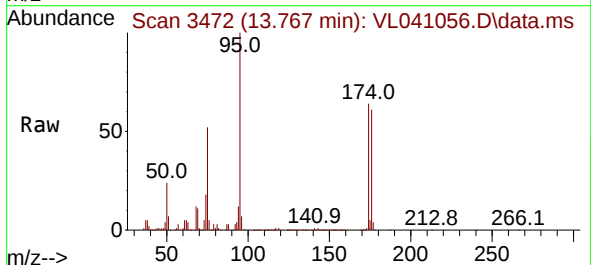
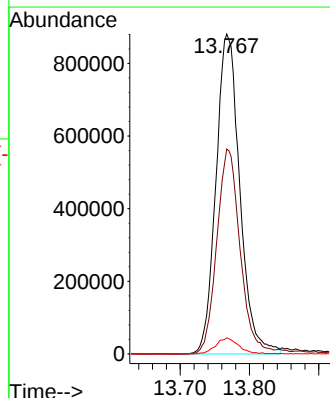
Tgt Ion: 95 Resp: 2107313

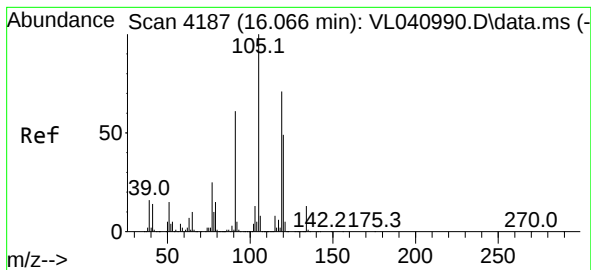
Ion Ratio Lower Upper

95 100

174 64.7 49.1 73.7

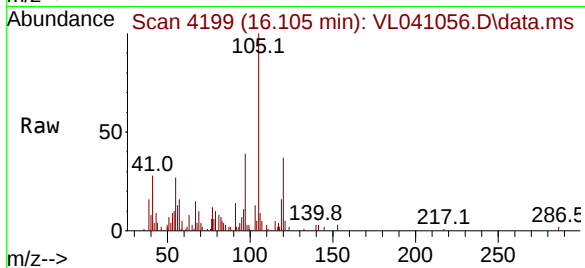
175 4.9 3.7 5.5





#74
1,2,4-Trimethylbenzene
Concen: 0.077 ppbv m
RT: 16.105 min Scan# 4187
Delta R.T. 0.010 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47

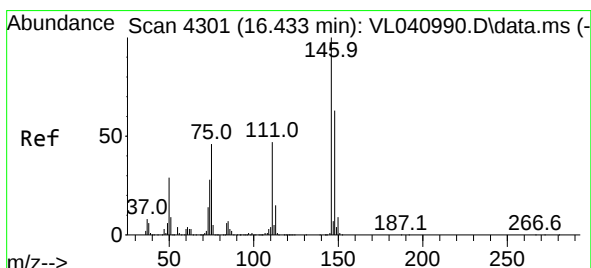
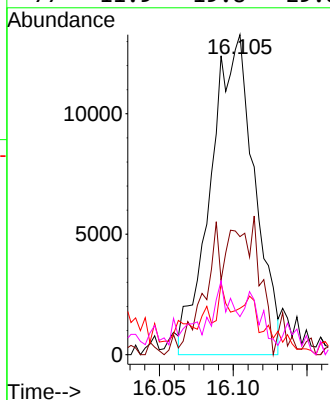
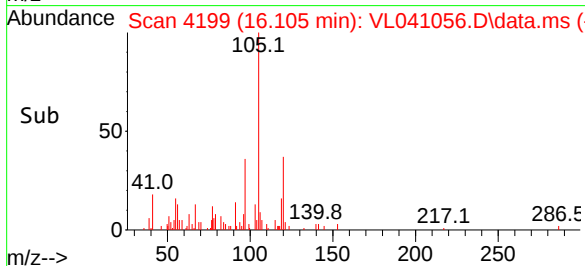
Instrument :
MSVOA_L
ClientSampleId :
IA3



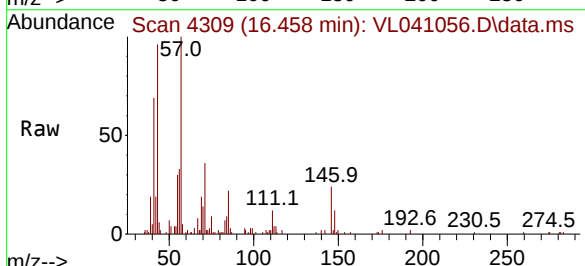
Tgt Ion:105 Resp: 27270
Ion Ratio Lower Upper
105 100
120 36.9 39.3 58.9
91 14.5 48.7 73.1
77 11.9 19.8 29.8

Manual Integrations
APPROVED

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



#76
1,4-Dichlorobenzene
Concen: 0.074 ppbv m
RT: 16.458 min Scan# 4309
Delta R.T. -0.000 min
Lab File: VL041056.D
Acq: 9 Feb 2024 13:47



Tgt Ion:146 Resp: 14755
Ion Ratio Lower Upper
146 100
111 70.5 24.0 72.0
148 64.8 32.9 98.7

