

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
 Data File : VL040976.D
 Acq On : 15 Jan 2024 18:53
 Operator : SY/MD
 Sample : P1138-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024

Quant Time: Jan 16 03:40:34 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Tue Jan 16 03:31:29 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1306924	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	3543947	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	3161921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2309571	9.916	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	20200	0.081	ppbv	90
9) Propene	2.719	41	116395	1.794	ppbv	96
10) Heptane	7.571	43	3256375	20.187	ppbv	97
13) Ethanol	3.266	45	16305m	0.996	ppbv	
15) Acetone	3.481	43	1045523	6.670	ppbv #	88
19) Isopropyl Alcohol	3.603	45	54202m	0.663	ppbv	
20) Methylene Chloride	3.947	84	113493	2.031	ppbv	95
26) Hexane	5.217	57	547158	4.546	ppbv #	39
29) Chloroform	5.275	83	12537m	0.062	ppbv	
30) Cyclohexane	6.603	84	7689m	0.077	ppbv	
32) 1,1,1-Trichloroethane	6.002	97	22666m	0.115	ppbv	
34) 2-Butanone	4.787	43	2060549	10.991	ppbv	99
36) Benzene	6.365	78	39720m	0.143	ppbv	
38) Trichloroethene	7.282	130	100341m	0.964	ppbv	
51) 2-Hexanone	9.548	43	252675	1.236	ppbv #	95
52) Tetrachloroethene	10.610	164	15379m	0.165	ppbv	
53) Toluene	9.208	91	234736	0.764	ppbv	97
58) Ethyl Benzene	12.076	91	106283	0.262	ppbv	92
59) m/p-Xylene	12.326	91	401021m	1.161	ppbv	
60) o-Xylene	13.044	91	151948	0.467	ppbv	100
64) n-propylbenzene	14.902	120	11808m	0.098	ppbv	
72) 4-Ethyltoluene	15.175	105	77201	0.216	ppbv	97
73) 1,3,5-Trimethylbenzene	15.336	105	57106m	0.185	ppbv	
74) 1,2,4-Trimethylbenzene	16.088	105	293381	0.855	ppbv #	68

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

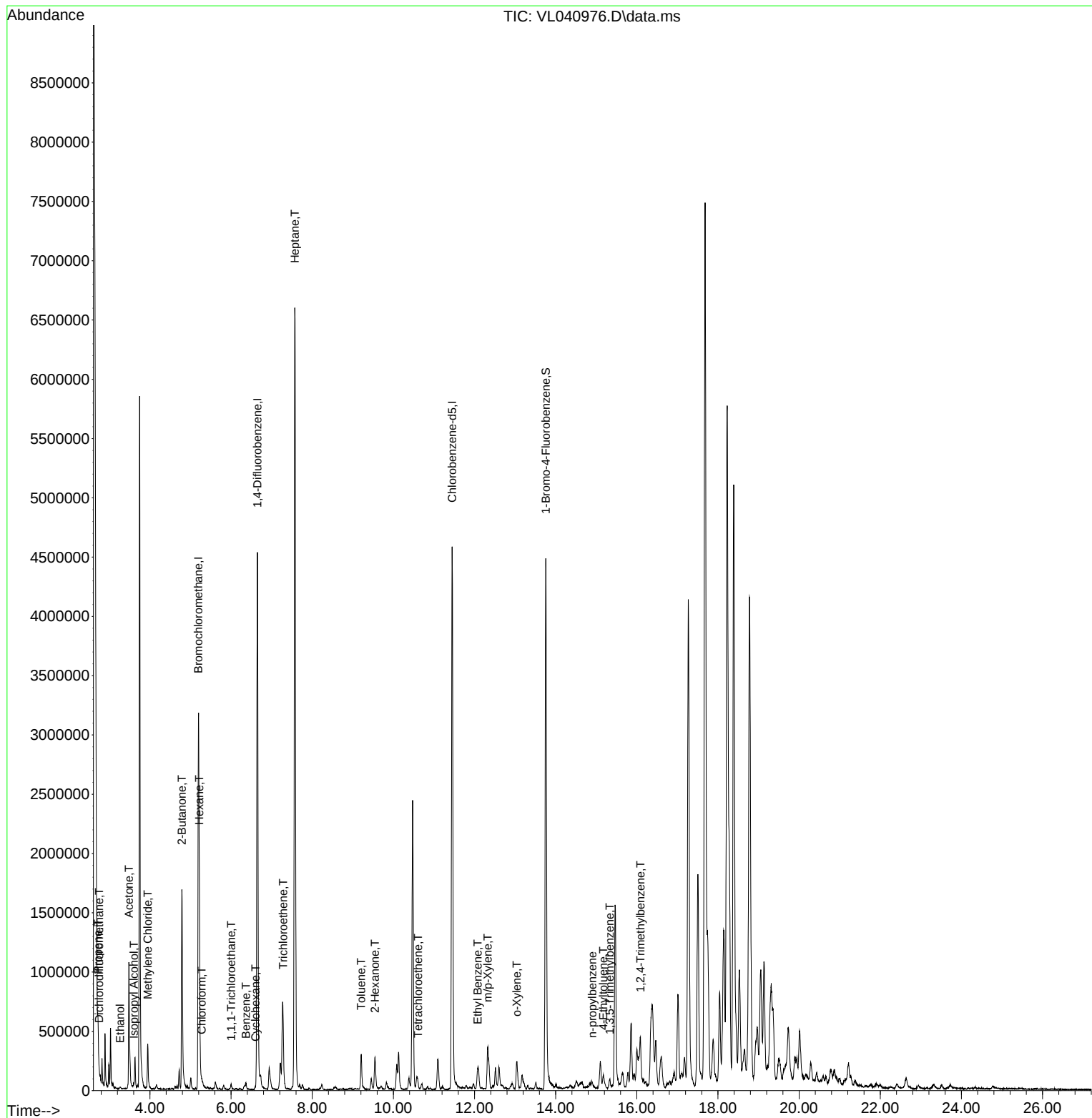
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
Data File : VL040976.D
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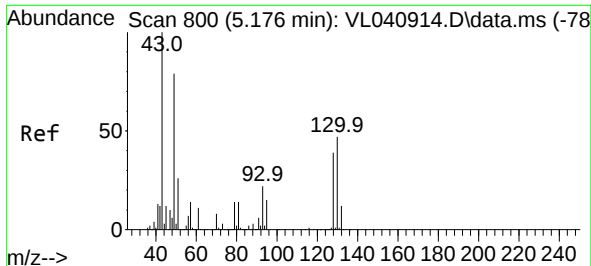
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Jan 16 03:40:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 16 03:31:29 2024
Response via : Initial Calibration

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APPROVED

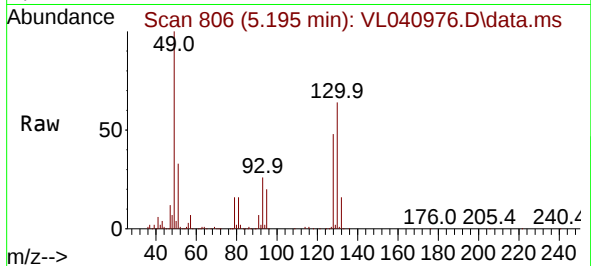
Reviewed By : Semsettin Yesilyurt 01/16/2024
Supervised By : Mahesh Dadoda 01/16/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.019 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

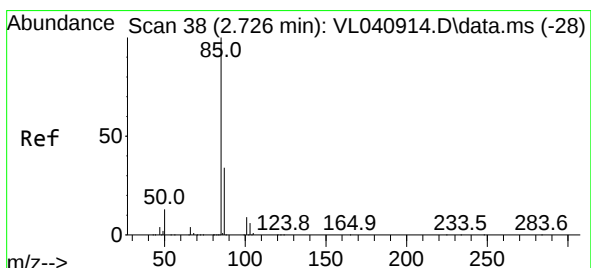
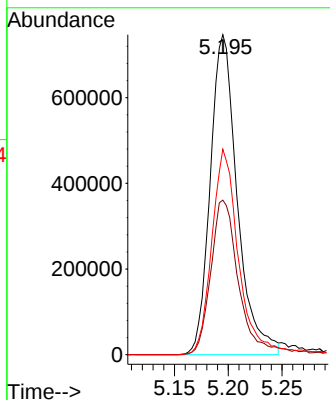
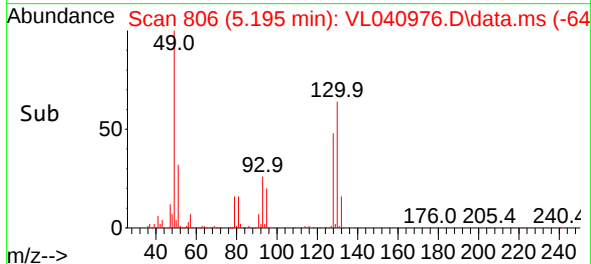
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 1306924
Ion Ratio Lower Upper
49 100
128 51.0 23.8 71.2
130 65.3 30.1 90.5

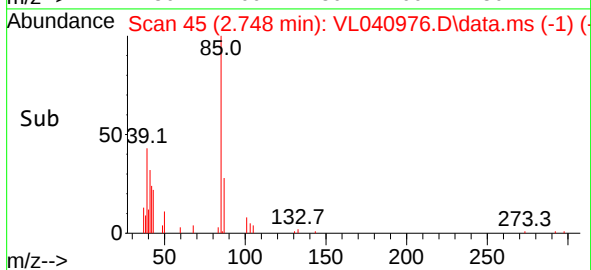
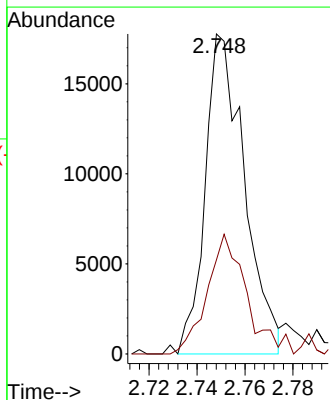
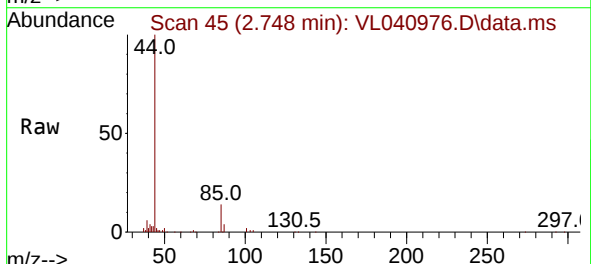
Manual Integrations
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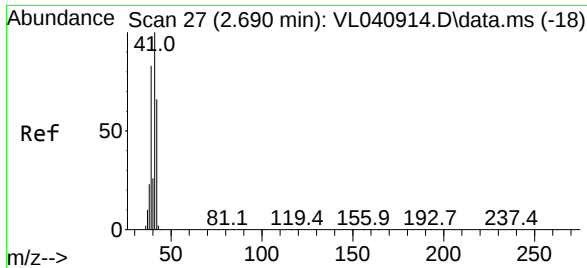
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#2
Dichlorodifluoromethane
Concen: 0.081 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.026 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

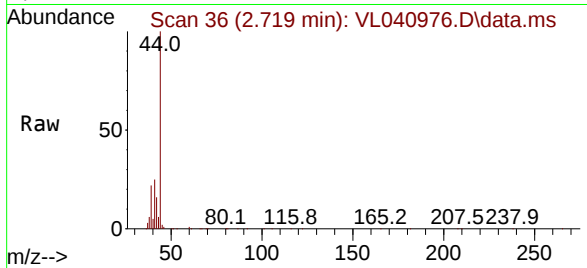
Tgt Ion: 85 Resp: 20200
Ion Ratio Lower Upper
85 100
87 28.1 27.0 40.6





#9
 Propene
 Concen: 1.794 ppbv
 RT: 2.719 min Scan# 30
 Delta R.T. 0.032 min
 Lab File: VL040976.D
 Acq: 15 Jan 2024 18:53

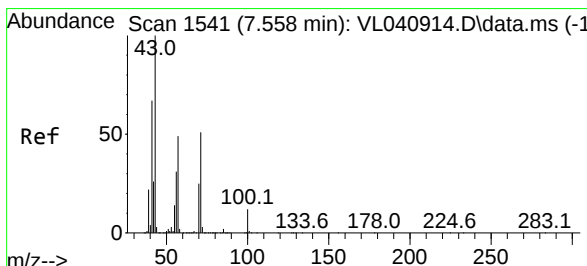
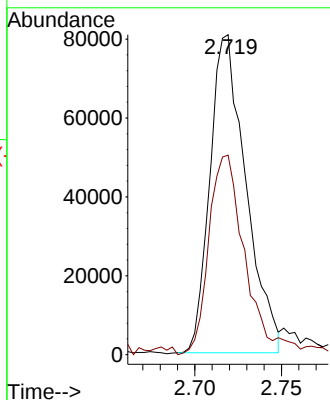
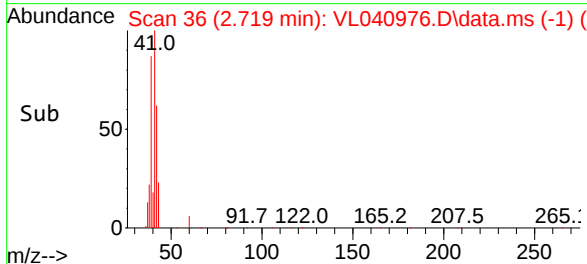
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



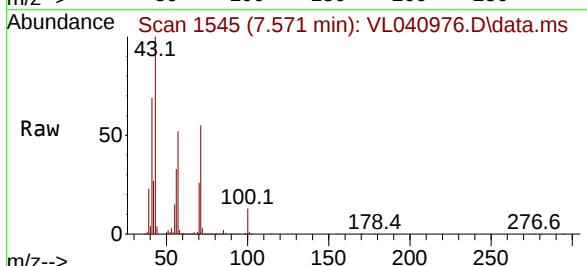
Tgt Ion: 41 Resp: 11639
 Ion Ratio Lower Upper
 41 100
 42 66.3 55.8 83.6

Manual Integrations
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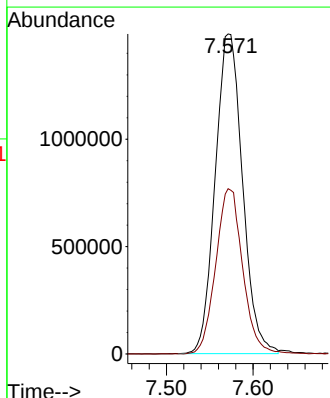
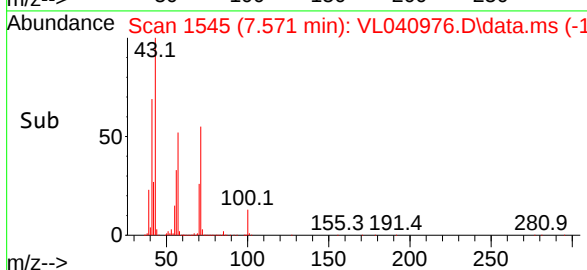
Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024

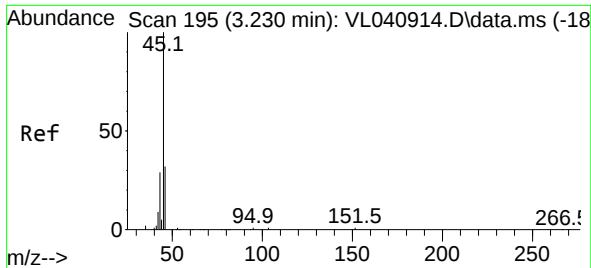


#10
 Heptane
 Concen: 20.187 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. 0.013 min
 Lab File: VL040976.D
 Acq: 15 Jan 2024 18:53



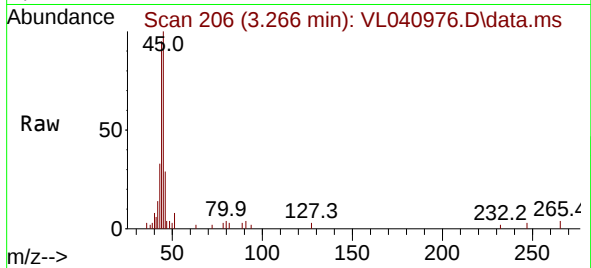
Tgt Ion: 43 Resp: 3256375
 Ion Ratio Lower Upper
 43 100
 57 51.5 39.3 58.9





#13
Ethanol
Concen: 0.996 ppbv m
RT: 3.266 min Scan# 206
Delta R.T. 0.035 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

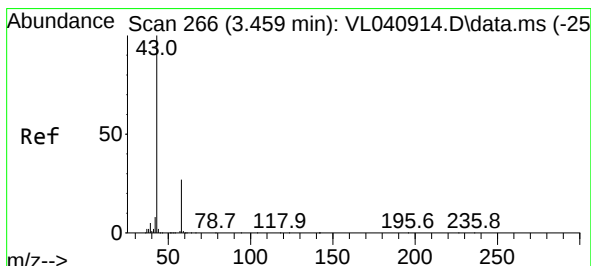
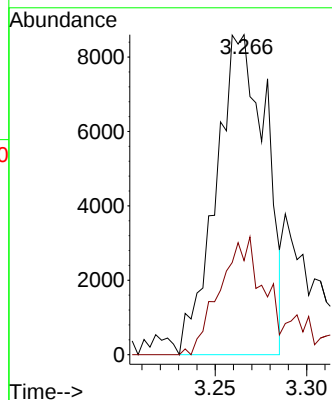
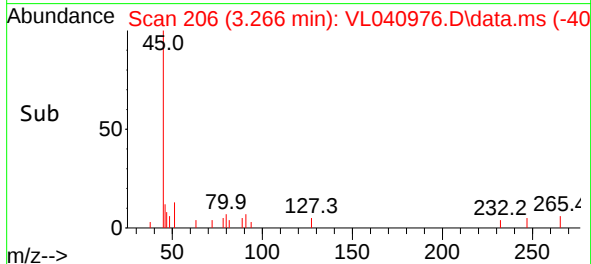
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 45 Resp: 1630
Ion Ratio Lower Upper
45 100
46 42.6 15.0 60.0

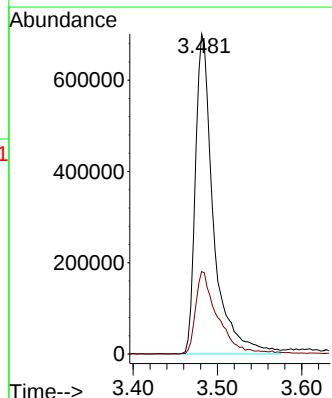
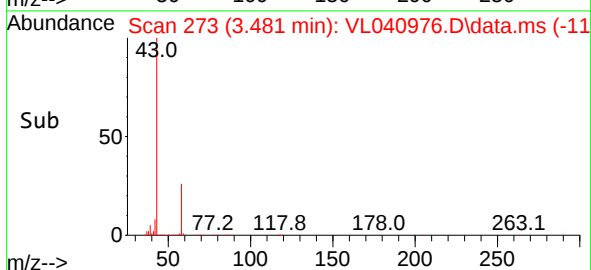
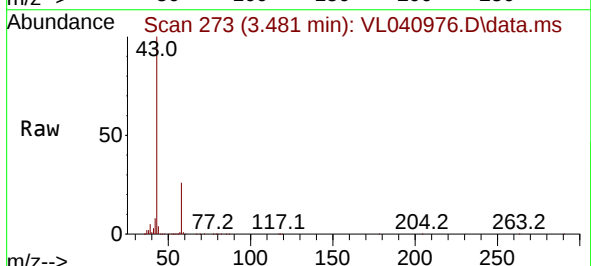
Manual Integrations
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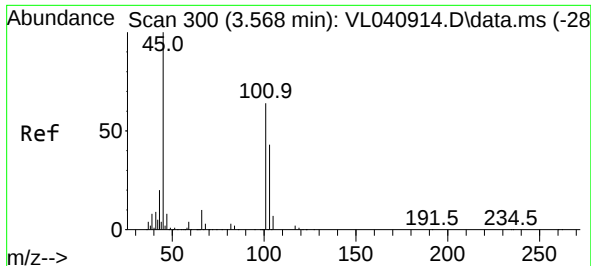
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#15
Acetone
Concen: 6.670 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.026 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 43 Resp: 1045523
Ion Ratio Lower Upper
43 100
58 32.0 20.6 30.8#





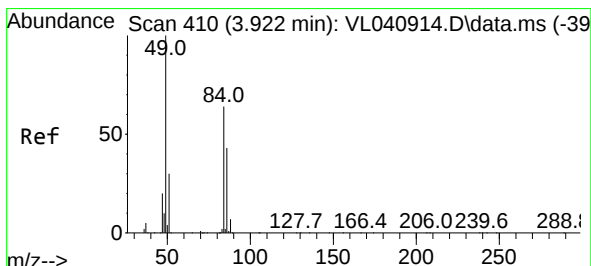
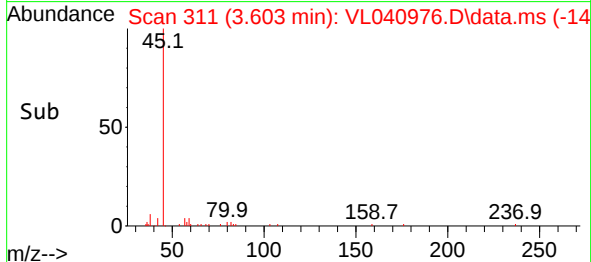
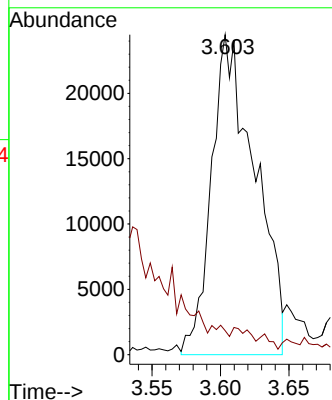
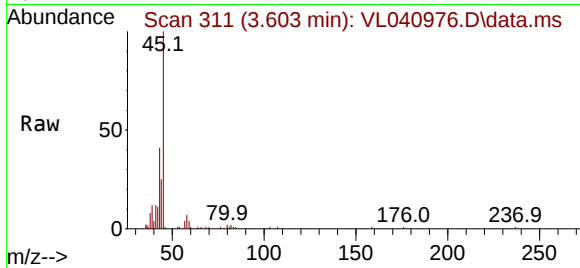
#19
Isopropyl Alcohol
Concen: 0.663 ppbv m
RT: 3.603 min Scan# 311
Delta R.T. 0.038 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 5420
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3

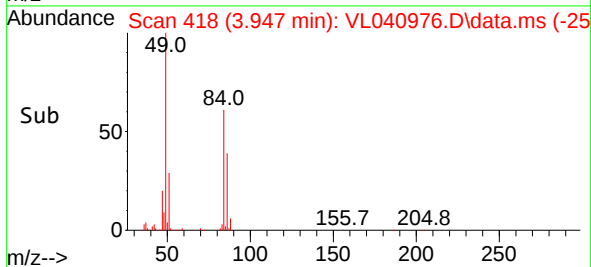
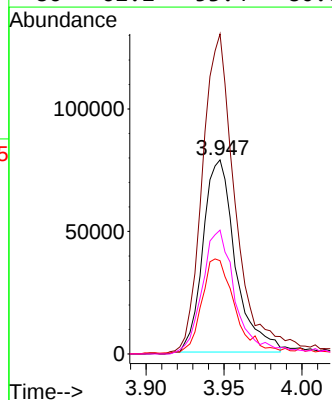
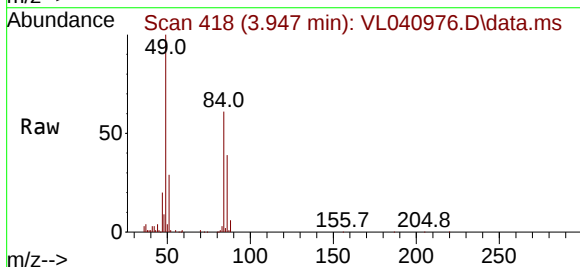
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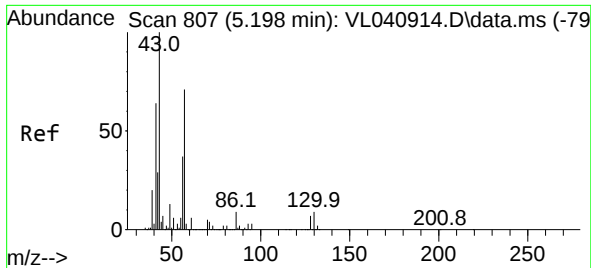
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#20
Methylene Chloride
Concen: 2.031 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.029 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 84 Resp: 113493
Ion Ratio Lower Upper
84 100
49 162.9 124.6 187.0
51 47.5 37.2 55.8
86 62.2 53.4 80.0





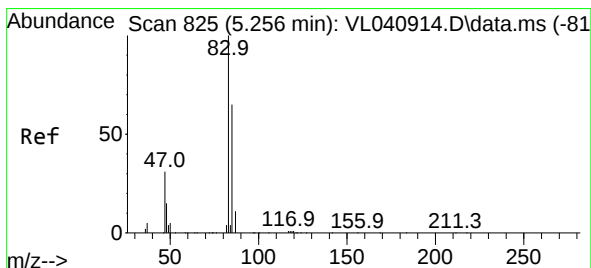
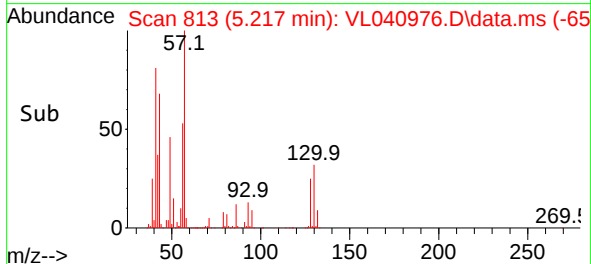
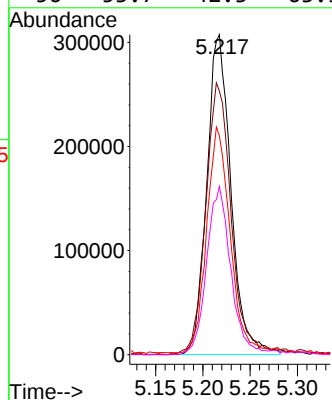
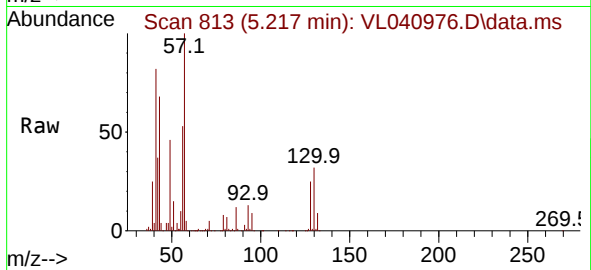
#26
Hexane
Concen: 4.546 ppbv
RT: 5.217 min Scan# 811
Delta R.T. 0.022 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 57 Resp: 547158
Ion Ratio Lower Upper
57 100
41 90.9 75.2 112.8
43 70.5 188.0 282.0
56 53.7 42.3 63.5

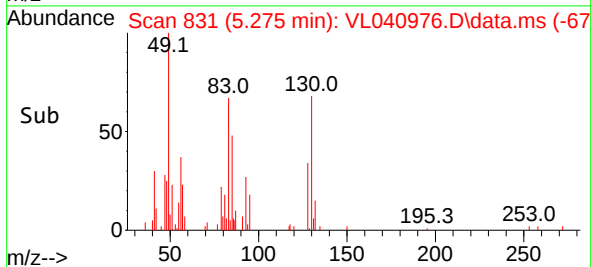
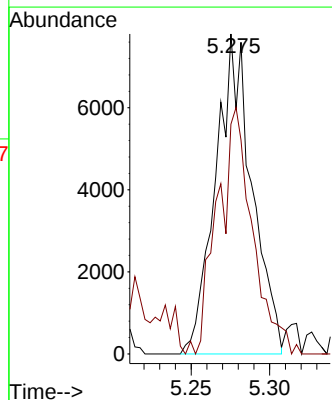
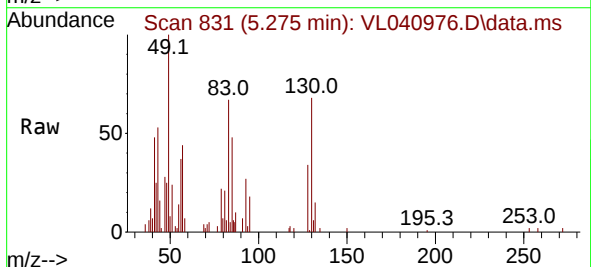
Manual Integrations
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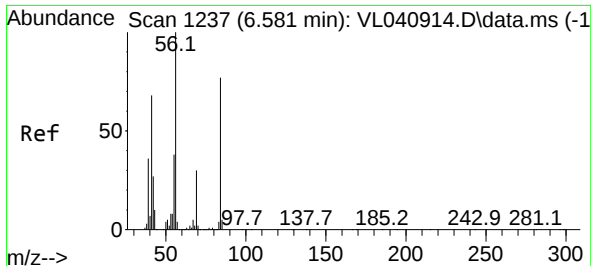
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#29
Chloroform
Concen: 0.062 ppbv m
RT: 5.275 min Scan# 831
Delta R.T. 0.016 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

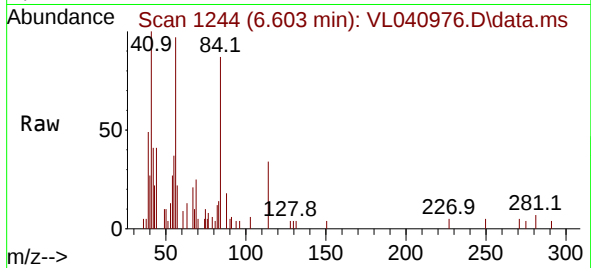
Tgt Ion: 83 Resp: 12537
Ion Ratio Lower Upper
83 100
85 71.8 52.3 78.5





#30
Cyclohexane
Concen: 0.077 ppbv m
RT: 6.603 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

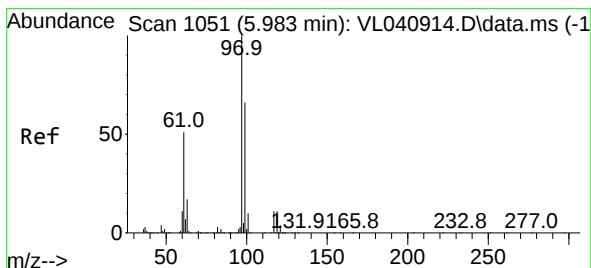
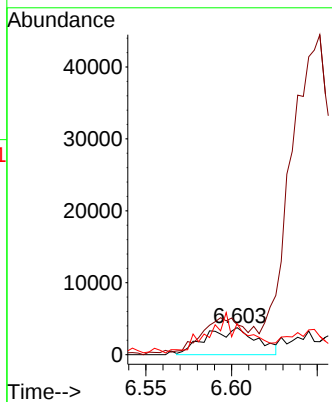
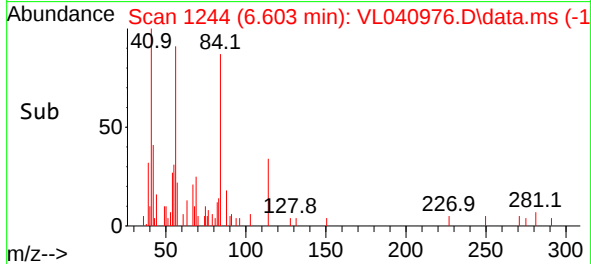
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 7689
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2
41 0.0 70.0 105.0

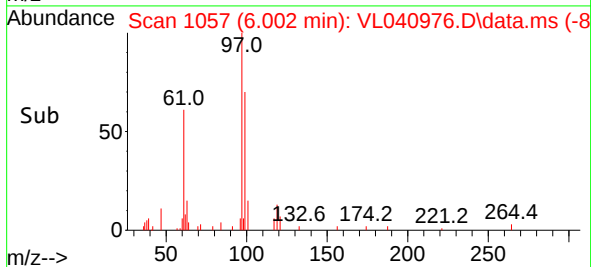
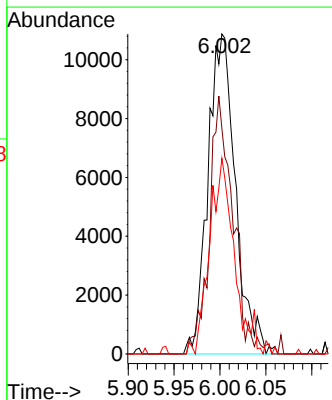
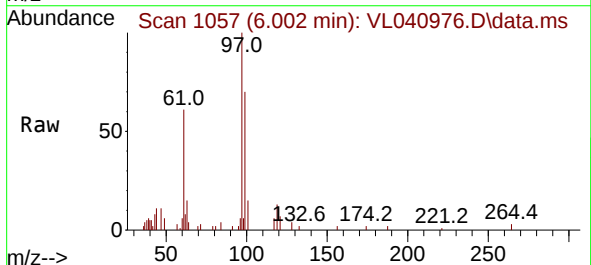
Manual Integrations
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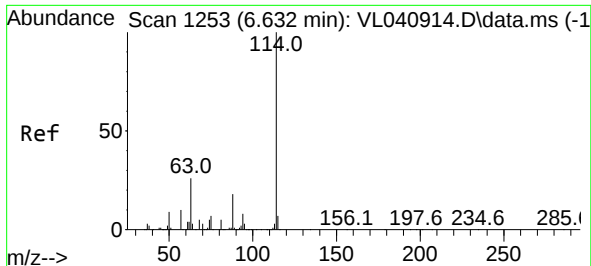
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 6.002 min Scan# 1057
Delta R.T. 0.016 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 97 Resp: 22666
Ion Ratio Lower Upper
97 100
99 69.1 51.8 77.6
61 54.8 41.0 61.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 354394

Ion Ratio Lower Upper

114 100

63 24.4 21.0 31.6

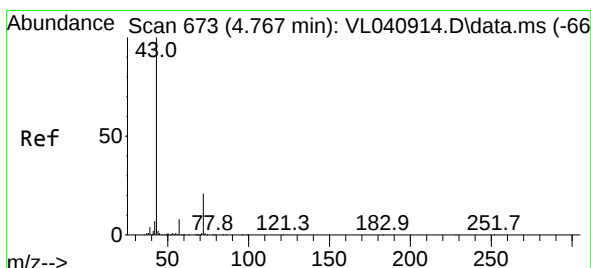
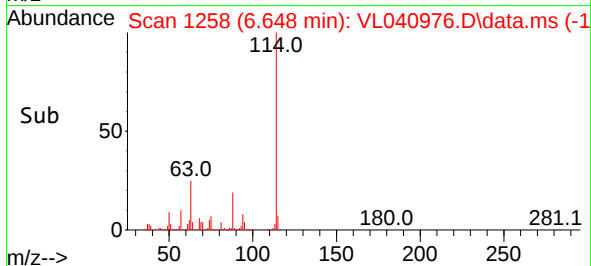
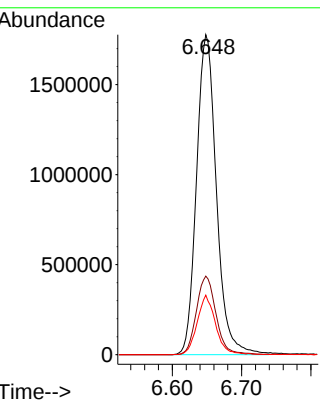
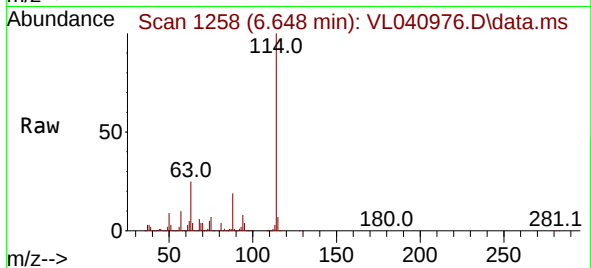
88 17.2 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/16/2024

Supervised By :Mahesh Dadoda 01/16/2024



#34

2-Butanone

Concen: 10.991 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.016 min

Lab File: VL040976.D

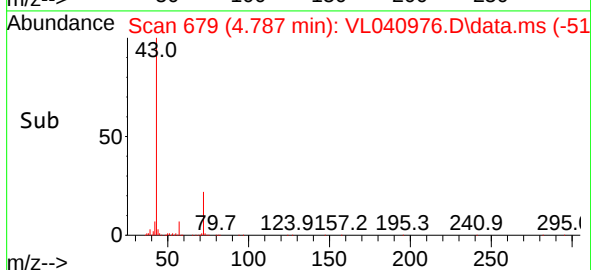
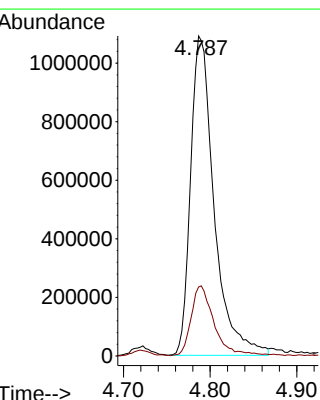
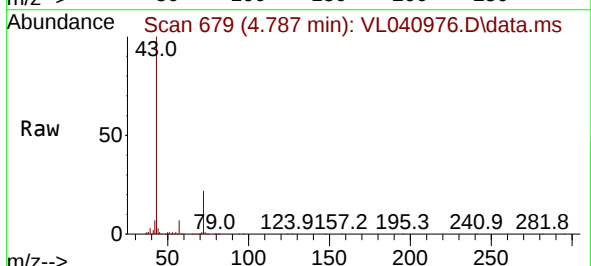
Acq: 15 Jan 2024 18:53

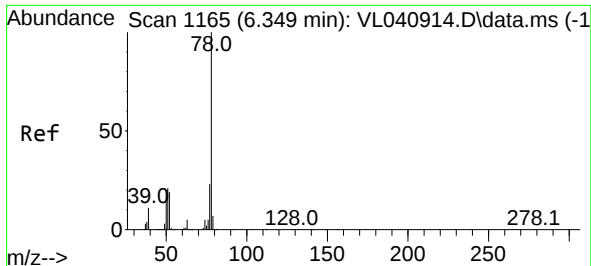
Tgt Ion: 43 Resp: 2060549

Ion Ratio Lower Upper

43 100

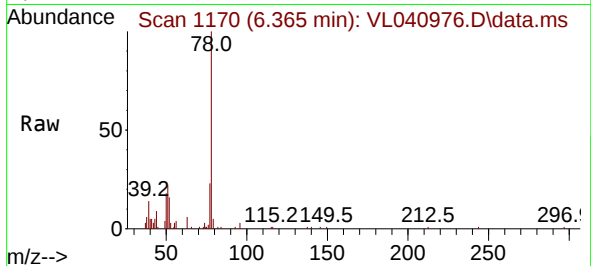
72 21.8 17.2 25.8





#36
Benzene
Concen: 0.143 ppbv m
RT: 6.365 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

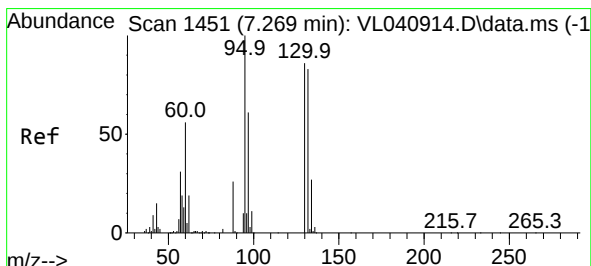
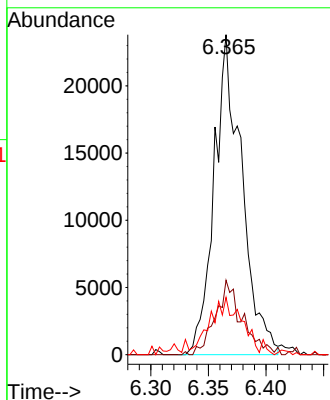
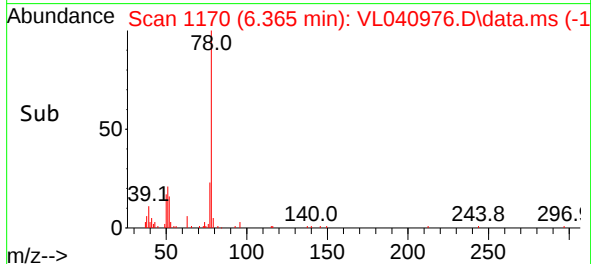
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 78 Resp: 39720
Ion Ratio Lower Upper
78 100
77 23.3 18.4 27.6
50 17.9 16.0 24.0

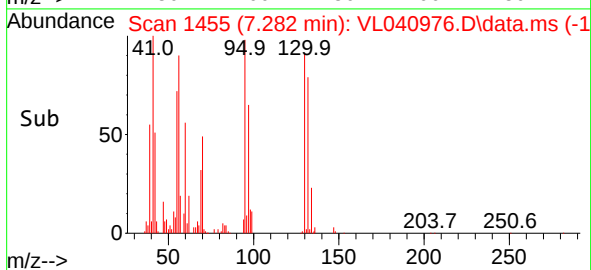
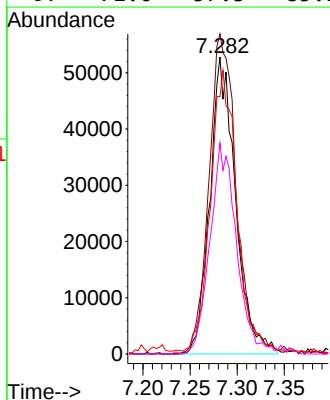
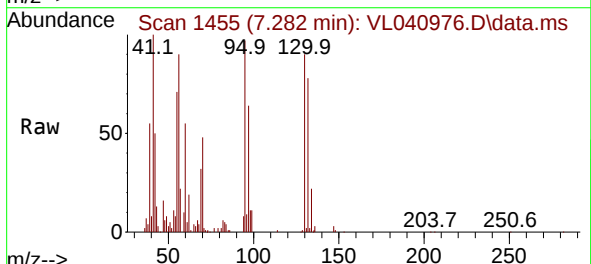
Manual Integrations
APPROVED

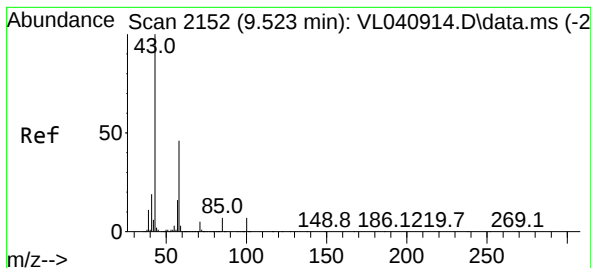
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#38
Trichloroethene
Concen: 0.964 ppbv m
RT: 7.282 min Scan# 1455
Delta R.T. 0.013 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion:130 Resp: 100341
Ion Ratio Lower Upper
130 100
95 107.8 93.5 140.3
132 86.6 77.4 116.2
97 71.0 57.3 85.9





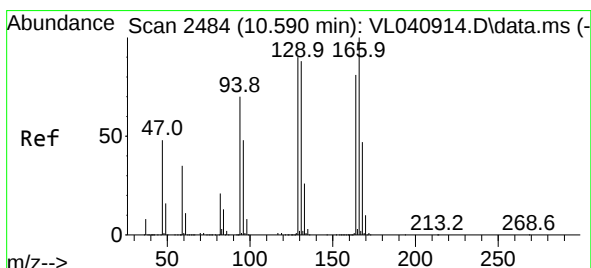
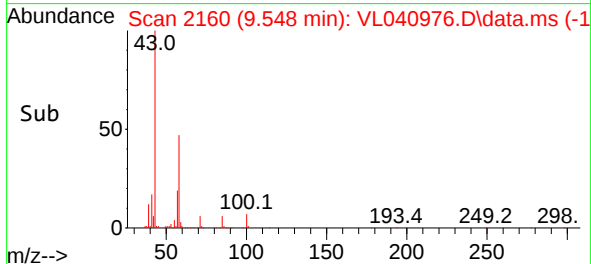
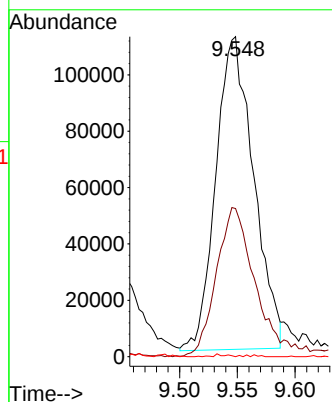
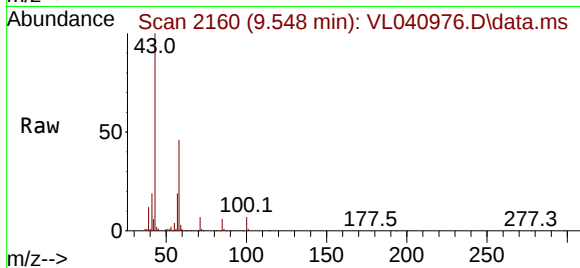
#51
2-Hexanone
Concen: 1.236 ppbv
RT: 9.548 min Scan# 2152
Delta R.T. 0.019 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 252679
Ion Ratio Lower Upper
43 100
58 49.8 37.3 55.9
98 0.4 0.2 0.2

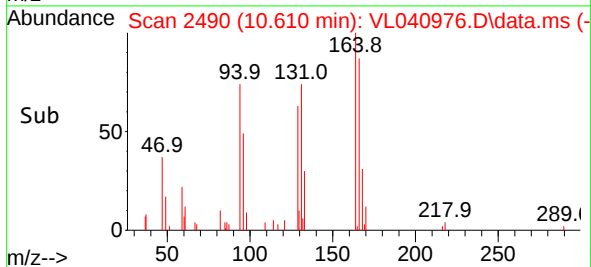
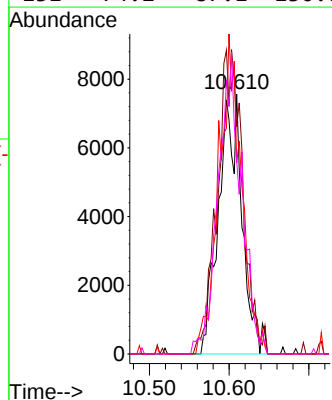
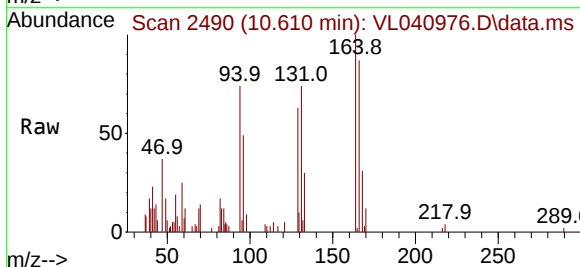
Manual Integrations
APPROVED

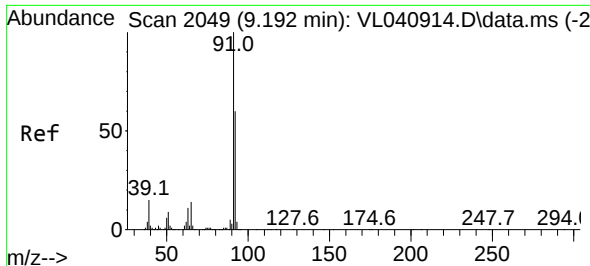
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#52
Tetrachloroethene
Concen: 0.165 ppbv m
RT: 10.610 min Scan# 2490
Delta R.T. 0.016 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

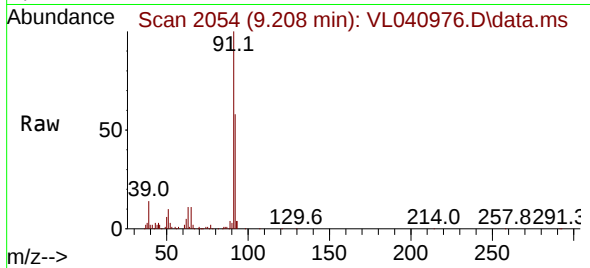
Tgt Ion:164 Resp: 15379
Ion Ratio Lower Upper
164 100
166 87.5 98.9 148.3#
129 63.2 88.7 133.1#
131 74.2 87.1 130.7#





#53
Toluene
Concen: 0.764 ppbv
RT: 9.208 min Scan# 2049
Delta R.T. 0.010 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

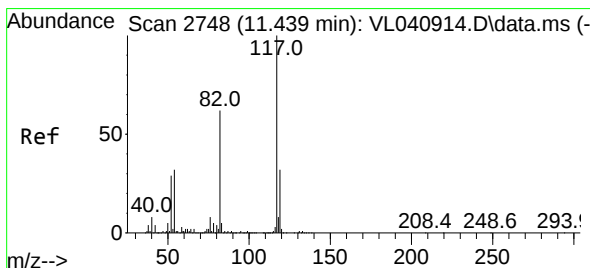
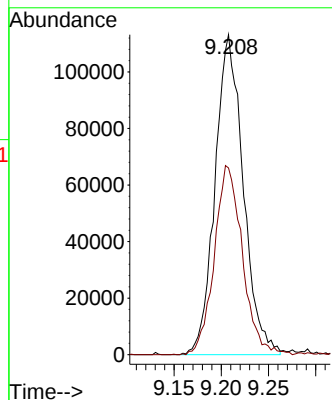
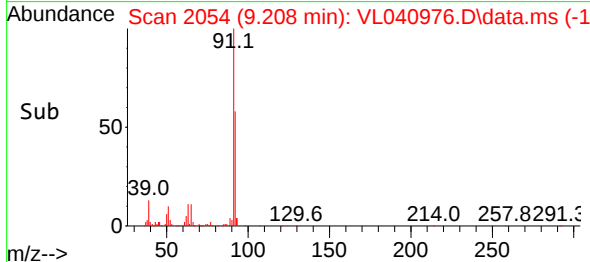
Instrument :
MSVOA_L
ClientSampleId :
SV2



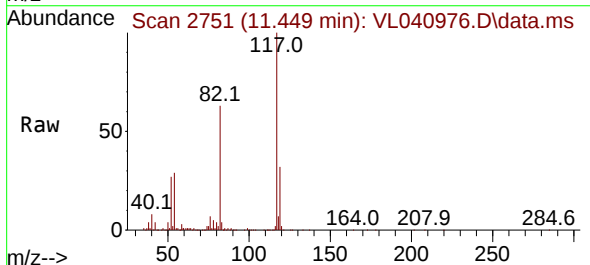
Tgt Ion: 91 Resp: 234730
Ion Ratio Lower Upper
91 100
92 58.8 49.2 73.8

Manual Integrations
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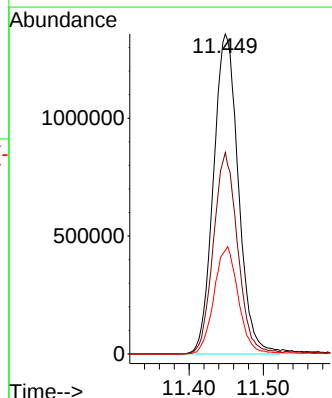
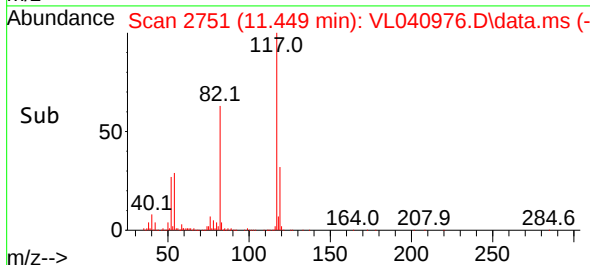
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

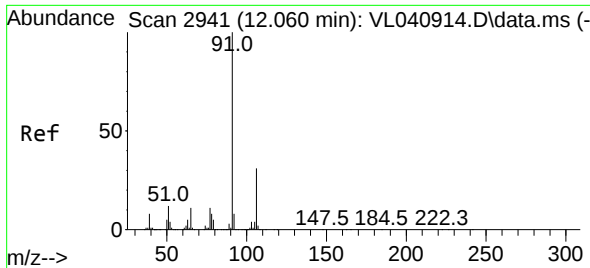


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.006 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53



Tgt Ion:117 Resp: 3161921
Ion Ratio Lower Upper
117 100
82 62.6 49.6 74.4
119 33.3 23.4 35.0





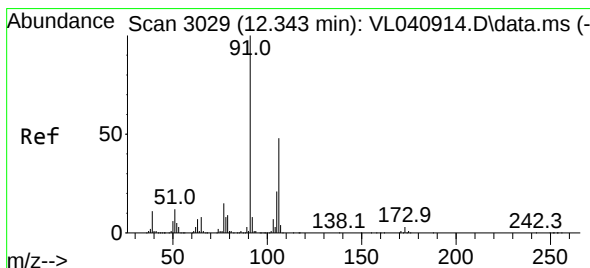
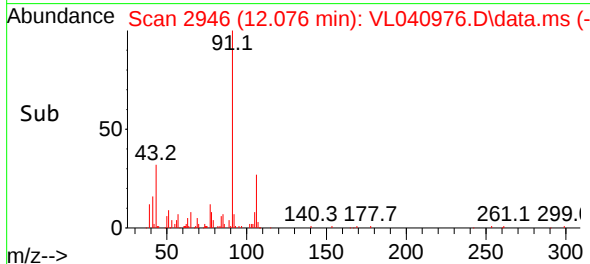
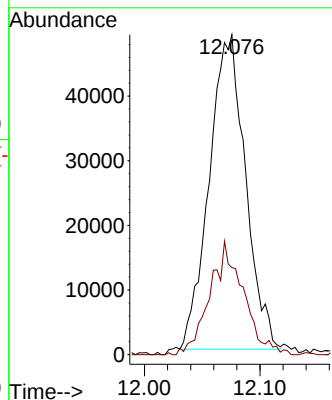
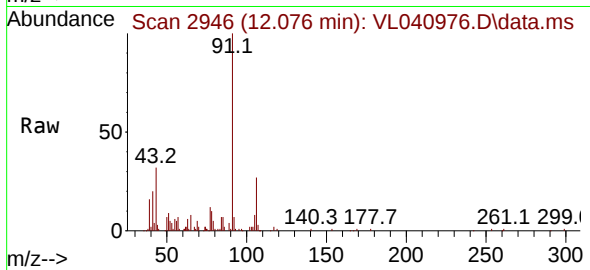
#58
Ethyl Benzene
Concen: 0.262 ppbv
RT: 12.076 min Scan# 2941
Delta R.T. 0.013 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 10628
Ion Ratio Lower Upper
91 100
106 26.9 24.9 37.3

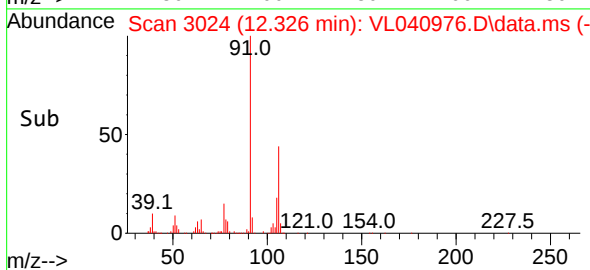
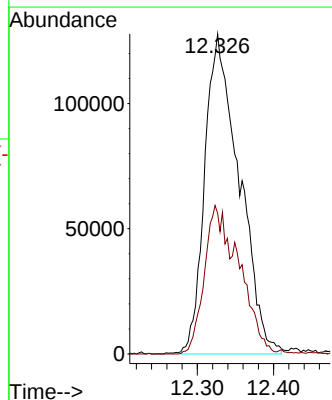
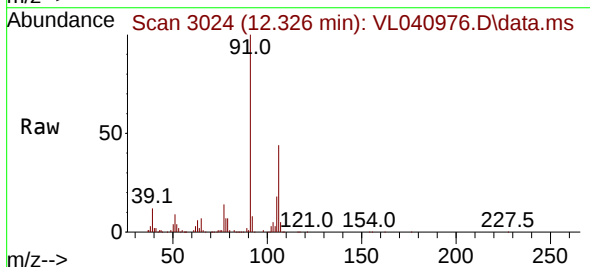
Manual Integrations
APPROVED

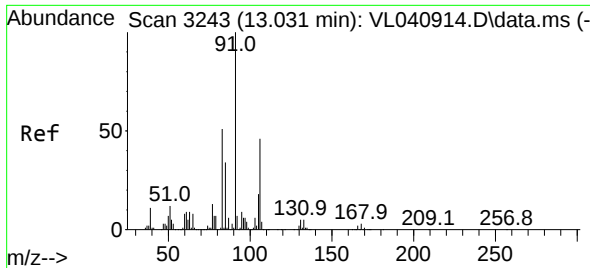
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#59
m/p-Xylene
Concen: 1.161 ppbv m
RT: 12.326 min Scan# 3024
Delta R.T. -0.023 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Tgt Ion: 91 Resp: 401021
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





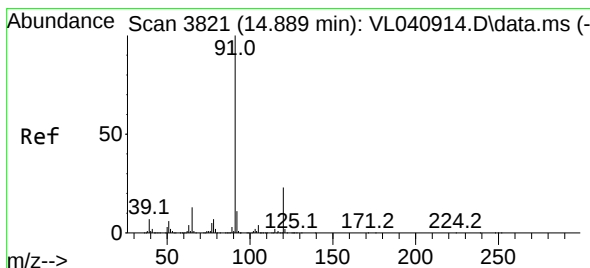
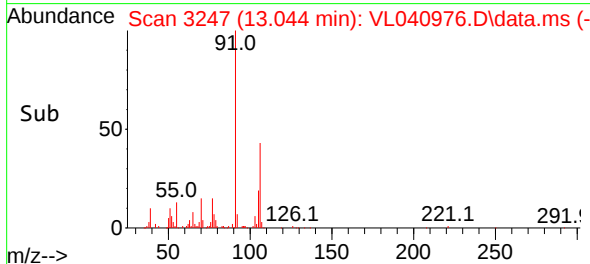
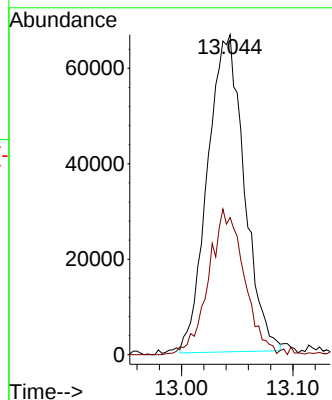
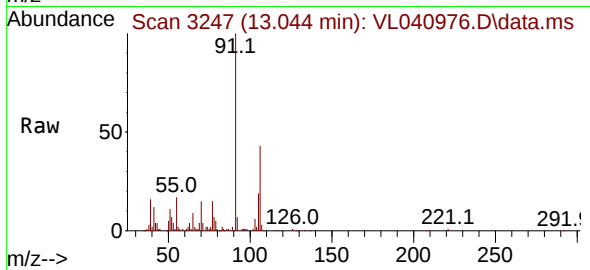
#60
o-Xylene
Concen: 0.467 ppbv
RT: 13.044 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 15194
Ion Ratio Lower Upper
91 100
106 44.9 22.6 67.7

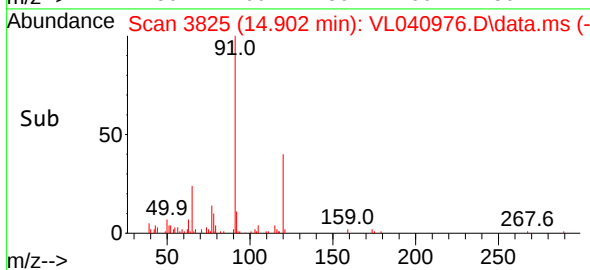
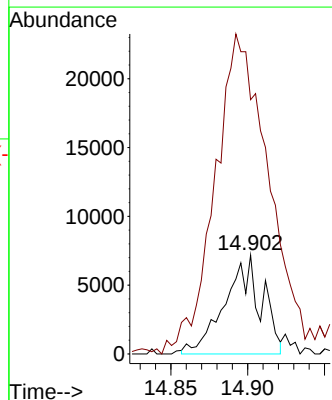
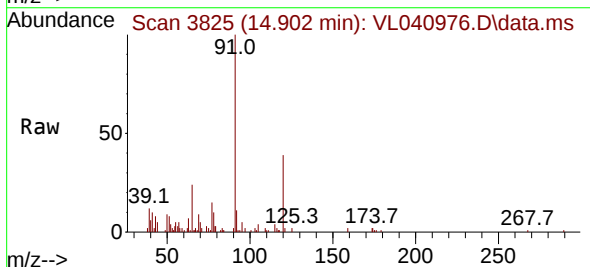
Manual Integrations
APPROVED

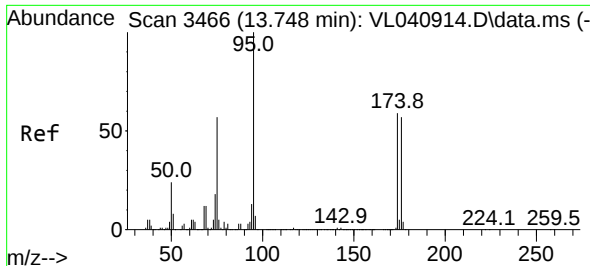
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#64
n-propylbenzene
Concen: 0.098 ppbv m
RT: 14.902 min Scan# 3825
Delta R.T. 0.010 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

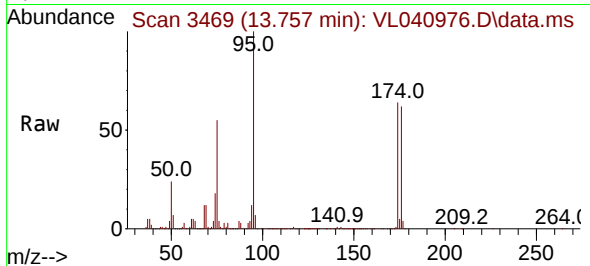
Tgt Ion:120 Resp: 11808
Ion Ratio Lower Upper
120 100
91 0.0 381.9 572.9#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.916 ppbv
RT: 13.757 min Scan# 3466
Delta R.T. 0.003 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53

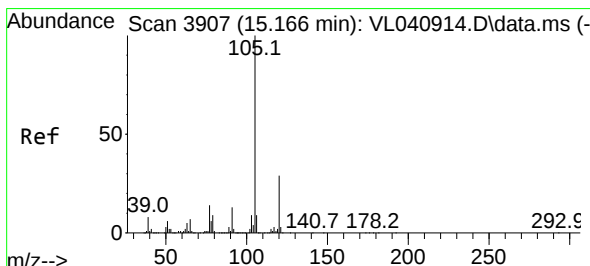
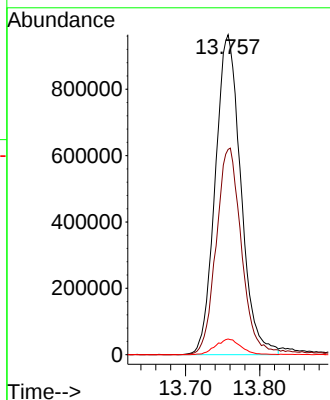
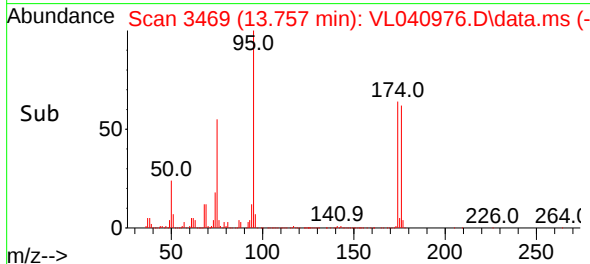
Instrument :
MSVOA_L
ClientSampleId :
SV2



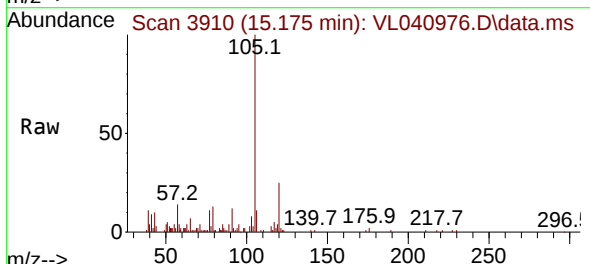
Tgt Ion: 95 Resp: 230957
Ion Ratio Lower Upper
95 100
174 65.5 48.0 72.0
175 5.0 3.7 5.5

Manual Integrations
APPROVED

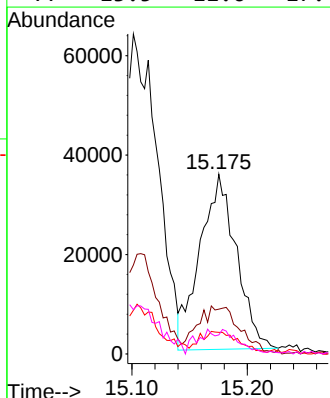
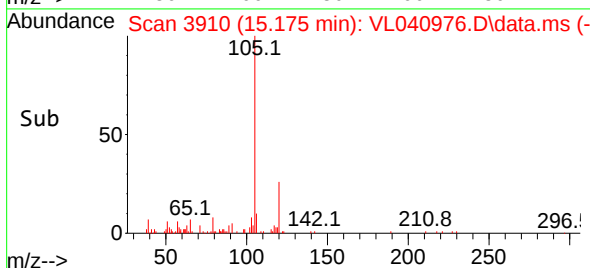
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

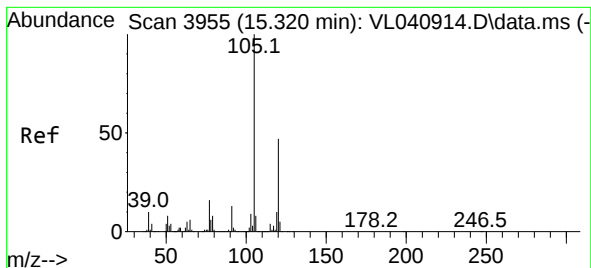


#72
4-Ethyltoluene
Concen: 0.216 ppbv
RT: 15.175 min Scan# 3910
Delta R.T. 0.006 min
Lab File: VL040976.D
Acq: 15 Jan 2024 18:53



Tgt Ion:105 Resp: 77201
Ion Ratio Lower Upper
105 100
120 32.4 23.8 35.8
91 13.7 10.9 16.3
77 13.5 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.185 ppbv m

RT: 15.336 min Scan# 3955

Delta R.T. 0.006 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 57100

Ion Ratio Lower Upper

105 100

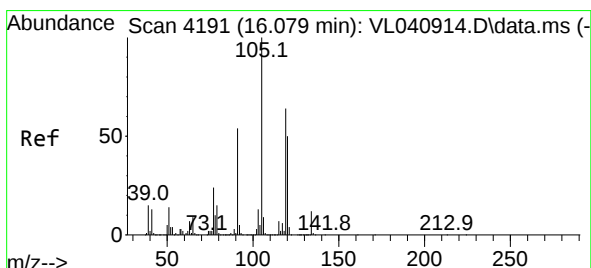
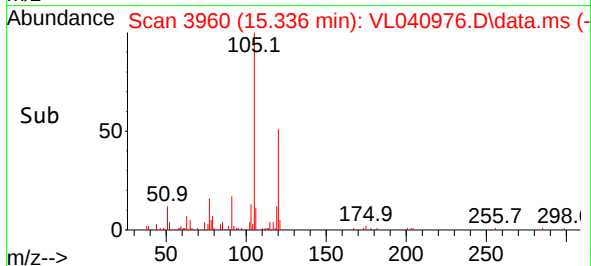
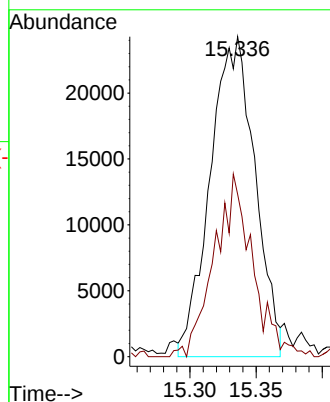
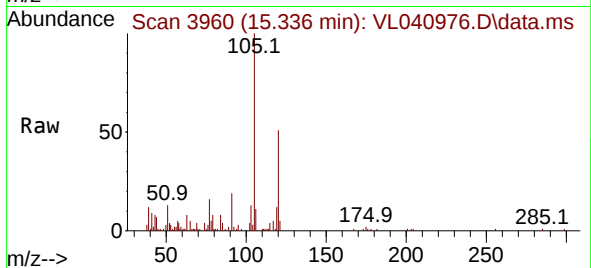
120 50.7 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/16/2024

Supervised By :Mahesh Dadoda 01/16/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.855 ppbv

RT: 16.088 min Scan# 4194

Delta R.T. 0.003 min

Lab File: VL040976.D

Acq: 15 Jan 2024 18:53

Tgt Ion:105 Resp: 293381

Ion Ratio Lower Upper

105 100

120 44.0 40.2 60.4

91 10.2 43.0 64.6#

77 15.0 18.9 28.3#

