

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
 Data File : VL040161.D
 Acq On : 13 Feb 2023 15:24
 Operator : SY/MD
 Sample : 01530-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-06

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023
 Supervised By :Mahesh Dadoda 02/14/2023

Quant Time: Feb 14 01:46:06 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Tue Feb 14 01:41:11 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	914385	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2379402	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	2080819	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.809 95 1668525 9.648 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.500%

Target Compounds

						Qvalue
9) Propene	2.697	41	282460m	6.199	ppbv	
10) Heptane	7.600	43	100282	0.955	ppbv	96
13) Ethanol	3.250	45	65283m	15.566	ppbv	
15) Acetone	3.484	43	241396m	2.201	ppbv	
17) tert-Butyl alcohol	3.896	59	92015	0.901	ppbv	97
19) Isopropyl Alcohol	3.594	45	39565	0.737	ppbv #	90
20) Methylene Chloride	3.944	84	70788	1.463	ppbv	94
26) Hexane	5.230	57	237767	2.812	ppbv #	38
27) Carbon Disulfide	4.134	76	89977	0.821	ppbv #	91
29) Chloroform	5.288	83	25011m	0.185	ppbv	
30) Cyclohexane	6.623	84	26579m	0.395	ppbv	
34) 2-Butanone	4.806	43	75148	0.668	ppbv	91
36) Benzene	6.388	78	34652m	0.197	ppbv	
44) 2,2,4-Trimethylpentane	7.346	57	69305m	0.237	ppbv	
51) 2-Hexanone	9.587	43	54588	0.407	ppbv	97
53) Toluene	9.249	91	149130	0.794	ppbv	98
58) Ethyl Benzene	12.111	91	35268m	0.152	ppbv	
59) m/p-Xylene	12.371	91	113726m	0.545	ppbv	
60) o-Xylene	13.089	91	43180	0.218	ppbv	98
74) 1,2,4-Trimethylbenzene	16.140	105	50295m	0.229	ppbv	

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

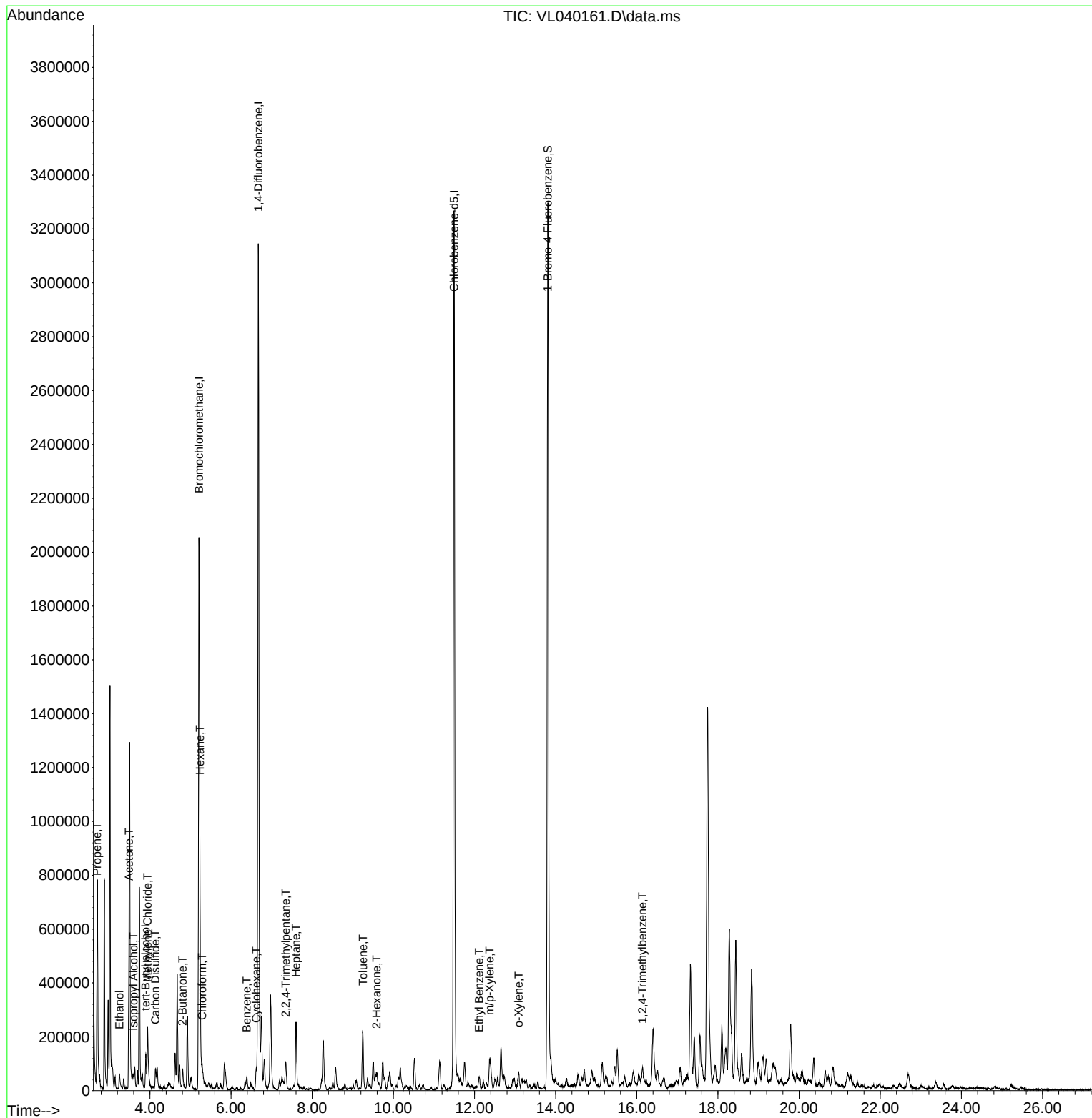
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
Data File : VL040161.D
Acq On : 13 Feb 2023 15:24
Operator : SY/MD
Sample : 01530-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

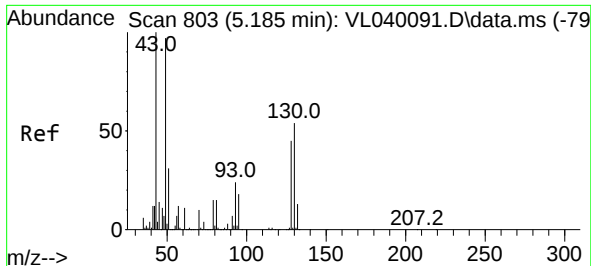
Instrument :
MSVOA_L
ClientSampleId :
SVP-06

Quant Time: Feb 14 01:46:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 14 01:41:11 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

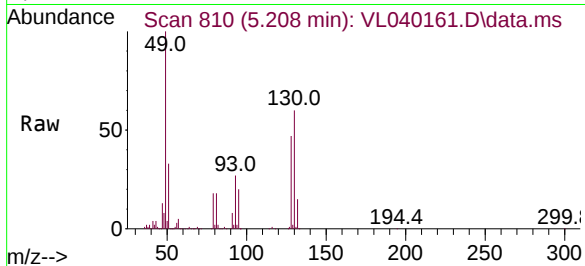
Reviewed By : Semsettin Yesilyurt 02/14/2023
Supervised By : Mahesh Dadoda 02/14/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

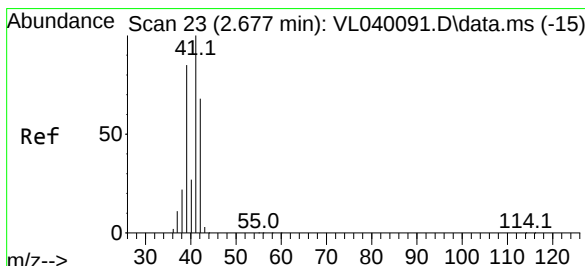
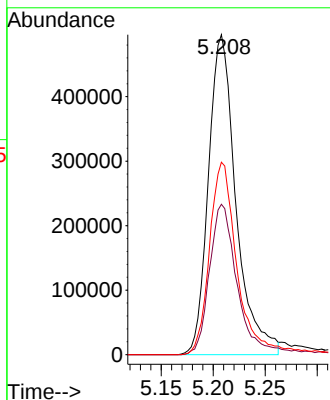
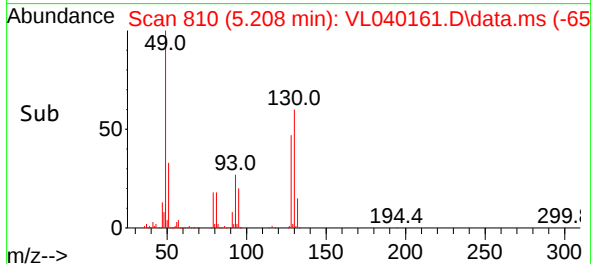
Instrument :
MSVOA_L
ClientSampleId :
SVP-06



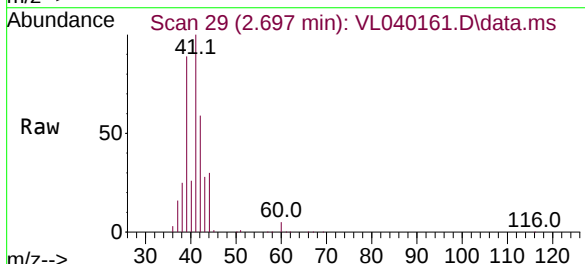
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Ion Ratio Lower Upper
49 100
128 49.0 23.6 71.0
130 62.0 29.8 89.3

Manual Integrations
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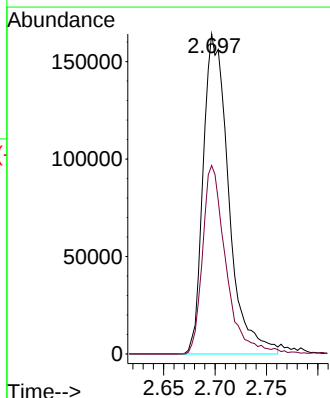
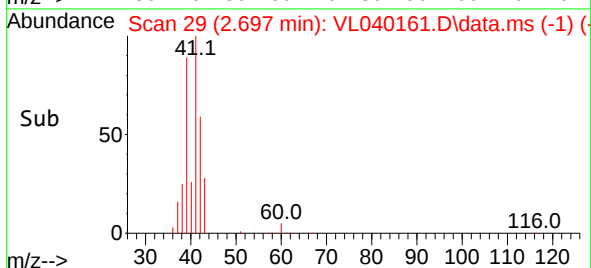
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023

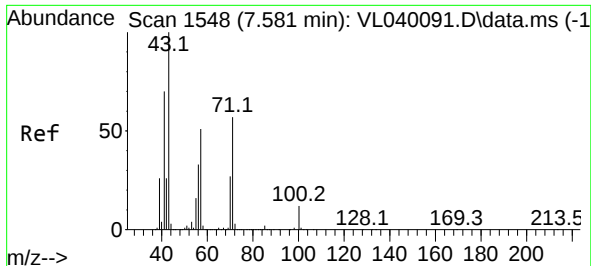


#9
Propene
Concen: 6.199 ppbv m
RT: 2.697 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24



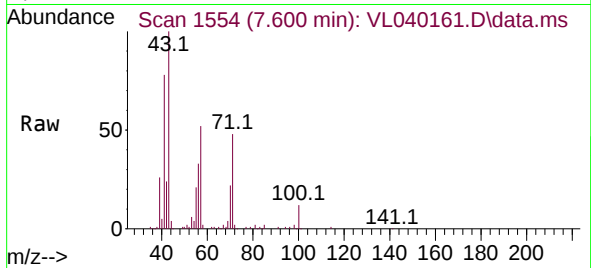
Tgt Ion: 41 Resp: 282460
Ion Ratio Lower Upper
41 100
42 48.1 55.6 83.4#





#10
Heptane
Concen: 0.955 ppbv
RT: 7.600 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

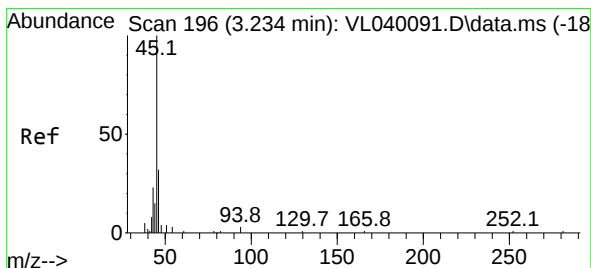
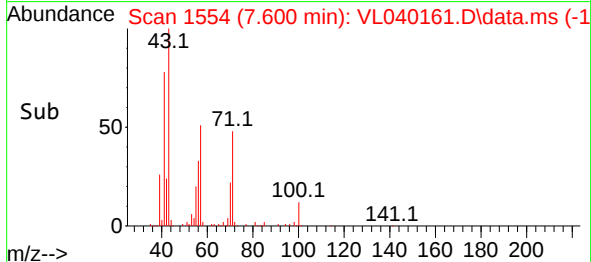
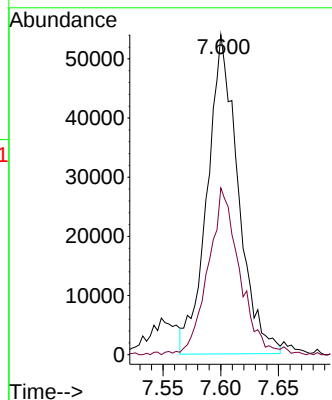
Instrument :
MSVOA_L
ClientSampleId :
SVP-06



Tgt Ion: 43 Resp: 10028
Ion Ratio Lower Upper
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57 54.0 40.9 61.3

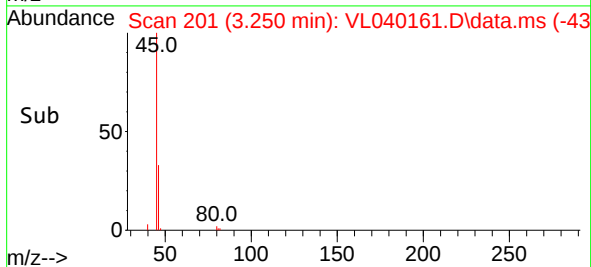
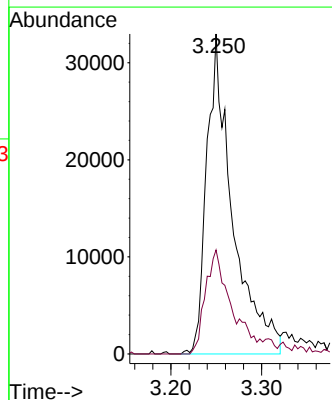
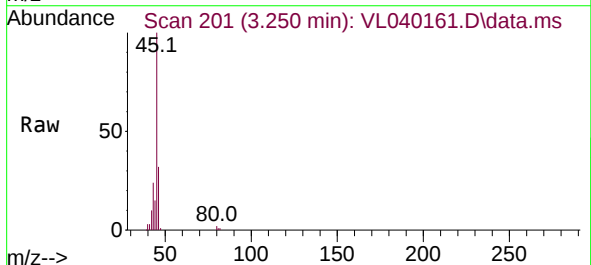
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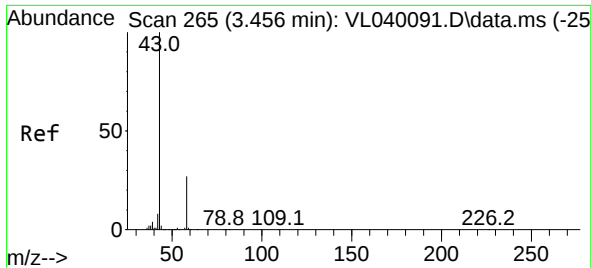
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#13
Ethanol
Concen: 15.566 ppbv m
RT: 3.250 min Scan# 201
Delta R.T. 0.006 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 45 Resp: 65283
Ion Ratio Lower Upper
45 100
46 36.8 14.8 59.2





#15

Acetone

Concen: 2.201 ppbv m

RT: 3.484 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

Tgt Ion: 43 Resp: 241390

Ion Ratio Lower Upper

43 100

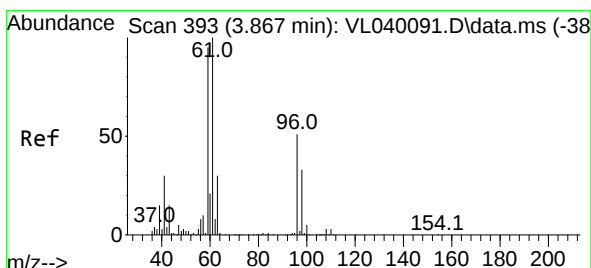
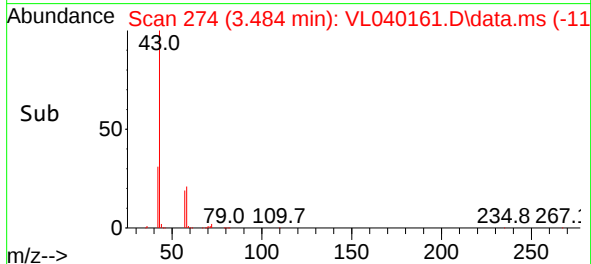
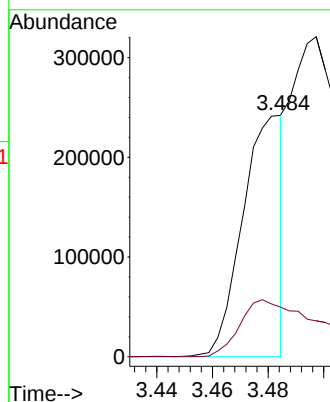
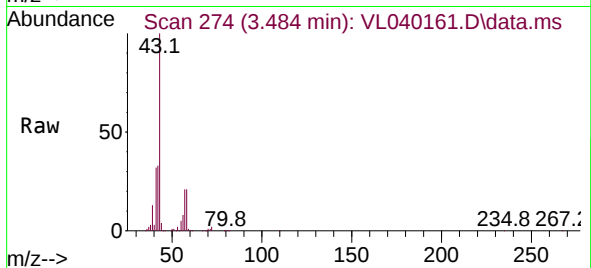
58 52.3 21.8 32.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/14/2023

Supervised By :Mahesh Dadoda 02/14/2023



#17

tert-Butyl alcohol

Concen: 0.901 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.013 min

Lab File: VL040161.D

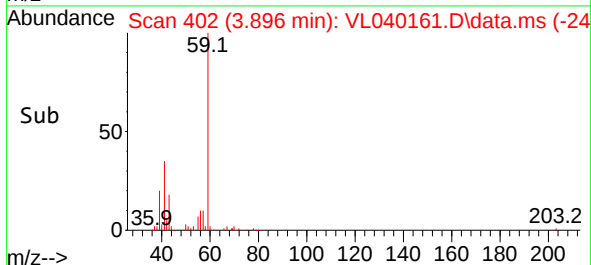
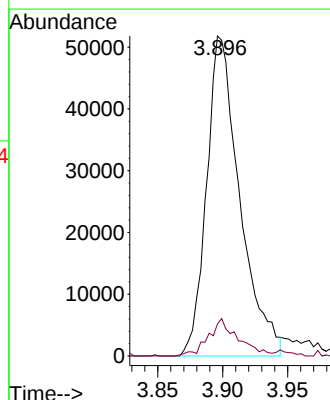
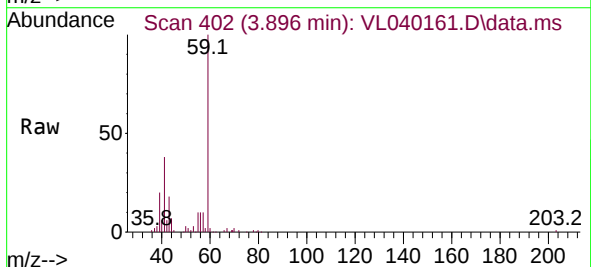
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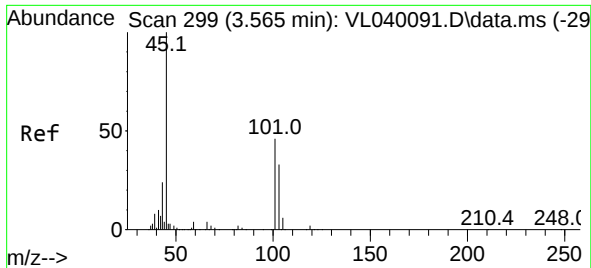
Tgt Ion: 59 Resp: 92015

Ion Ratio Lower Upper

59 100

57 11.6 8.5 12.7





#19

Isopropyl Alcohol

Concen: 0.737 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.016 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

Tgt Ion: 45 Resp: 3956

Ion Ratio Lower Upper

45 100

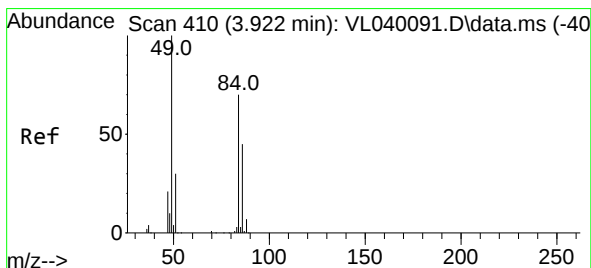
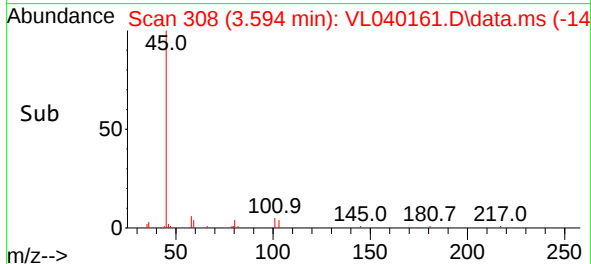
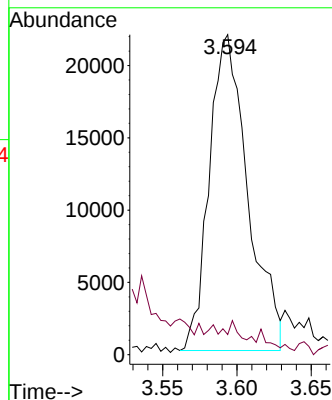
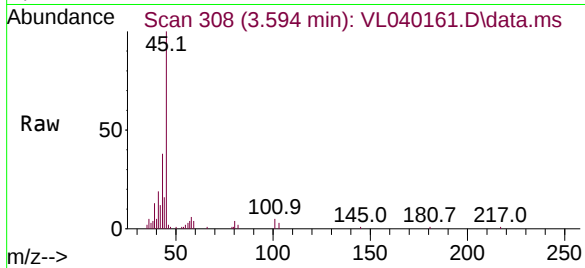
58 0.0 2.6 4.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023

Supervised By :Mahesh Dadoda 02/14/2023



#20

Methylene Chloride

Concen: 1.463 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Tgt Ion: 84 Resp: 70788

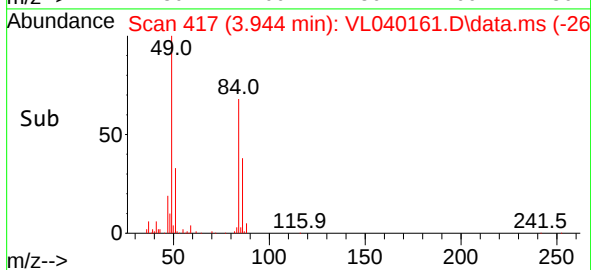
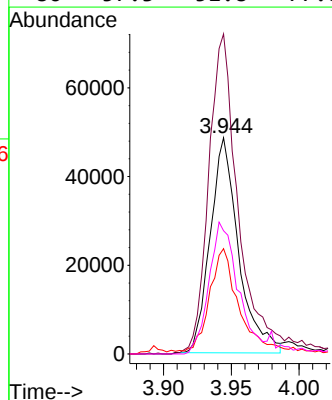
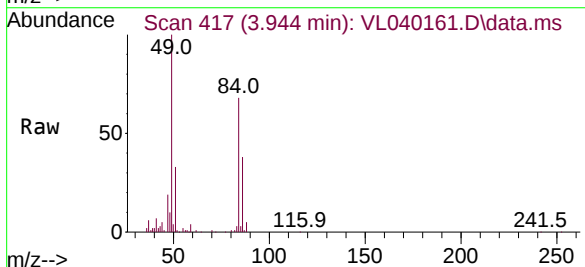
Ion Ratio Lower Upper

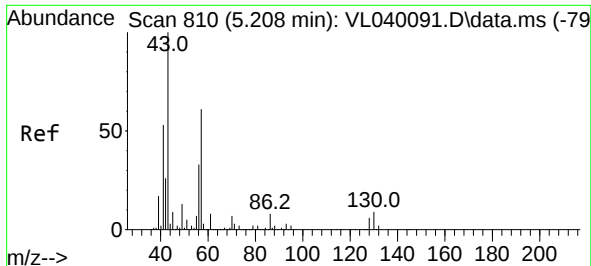
84 100

49 148.2 114.6 171.8

51 47.3 34.3 51.5

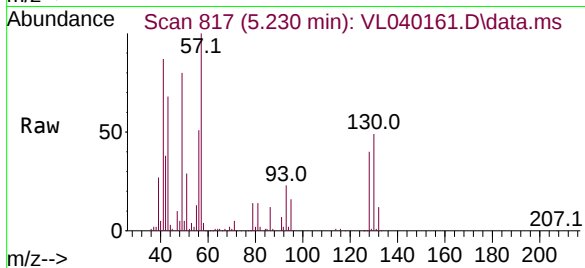
86 57.3 51.8 77.8





#26
Hexane
Concen: 2.812 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

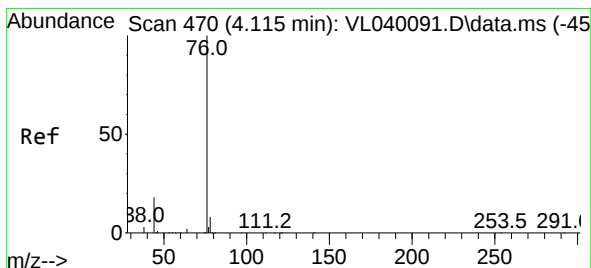
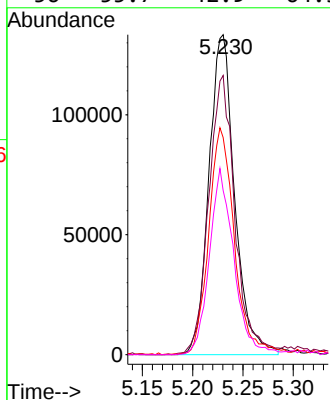
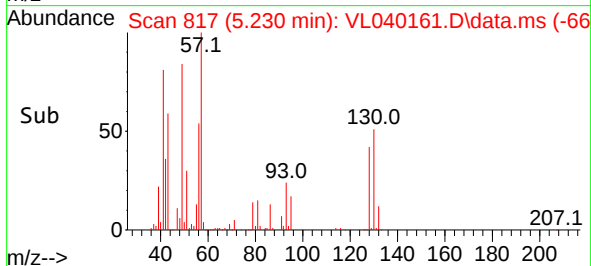
Instrument :
MSVOA_L
ClientSampleId :
SVP-06



Tgt Ion: 57 Resp: 23776
Ion Ratio Lower Upper
57 100
41 90.0 72.2 108.4
43 73.5 192.1 288.1
56 55.7 42.9 64.3

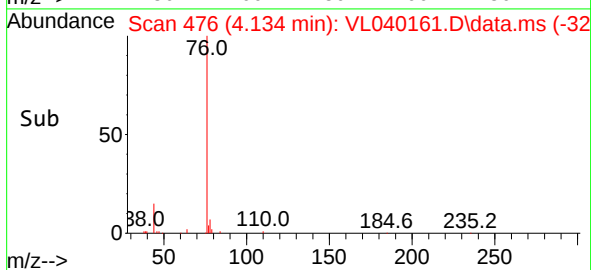
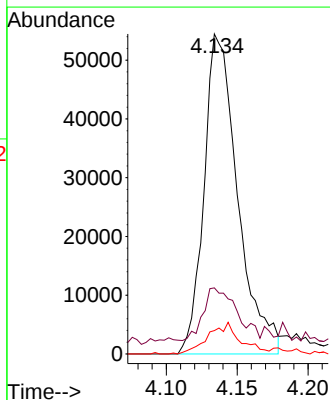
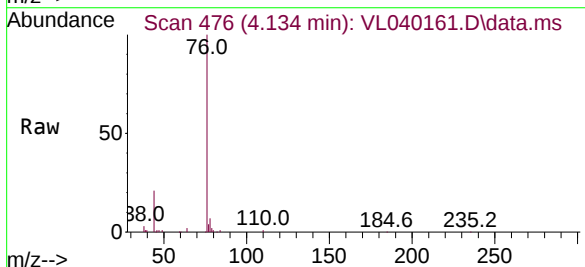
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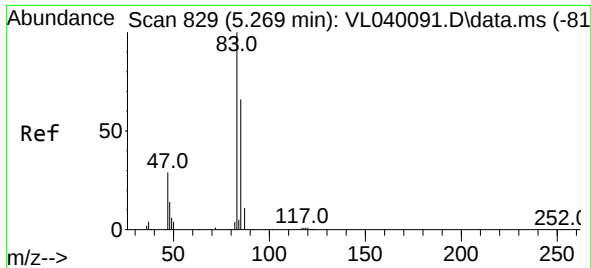
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#27
Carbon Disulfide
Concen: 0.821 ppbv
RT: 4.134 min Scan# 476
Delta R.T. 0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

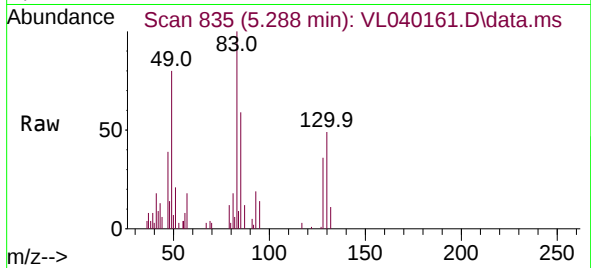
Tgt Ion: 76 Resp: 89977
Ion Ratio Lower Upper
76 100
44 24.1 14.9 22.3
78 10.8 8.2 12.2





#29
Chloroform
Concen: 0.185 ppbv m
RT: 5.288 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

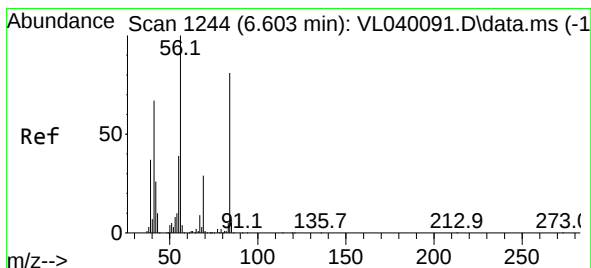
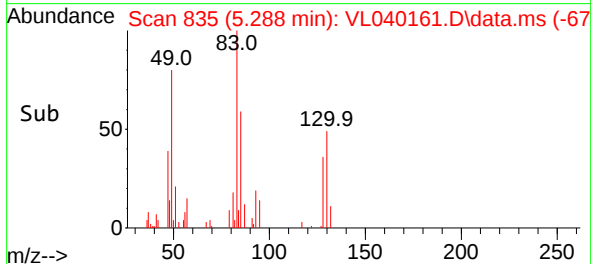
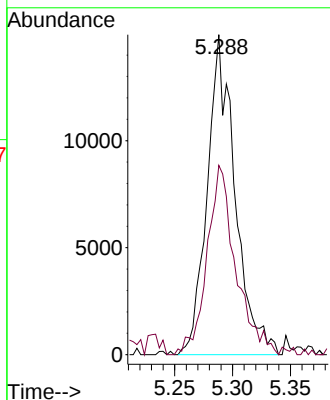
Instrument :
MSVOA_L
ClientSampleId :
SVP-06



Tgt Ion: 83 Resp: 2501
Ion Ratio Lower Upper
83 100
85 59.1 53.1 79.7

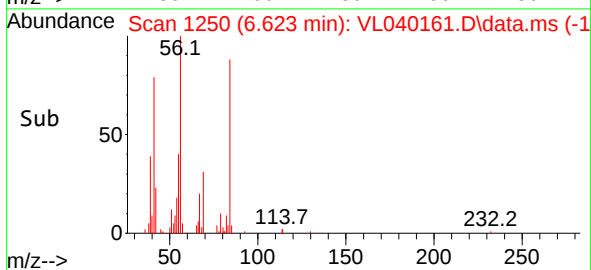
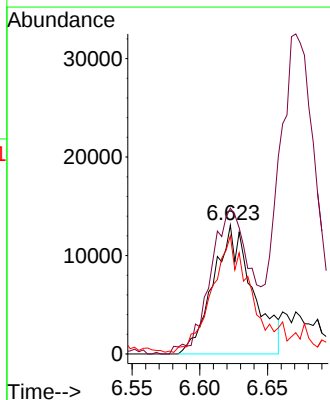
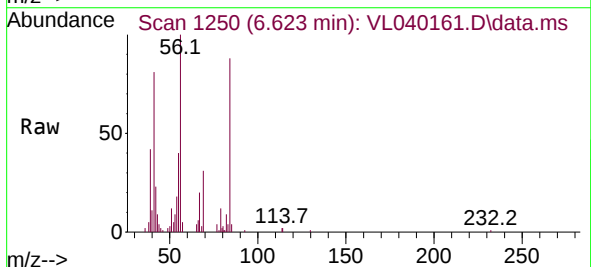
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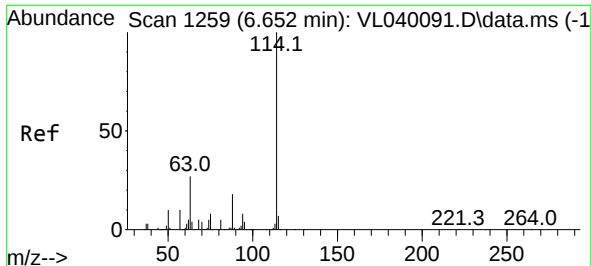
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#30
Cyclohexane
Concen: 0.395 ppbv m
RT: 6.623 min Scan# 1250
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 84 Resp: 26579
Ion Ratio Lower Upper
84 100
56 117.1 111.5 167.3
41 99.9 71.4 107.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

Tgt Ion:114 Resp: 237940

Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.8

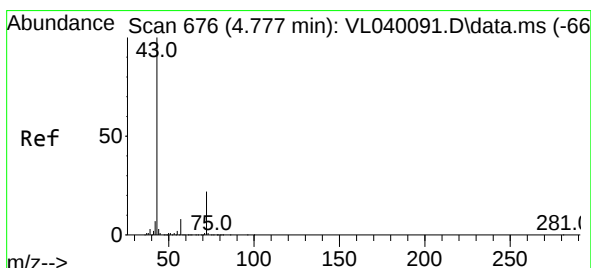
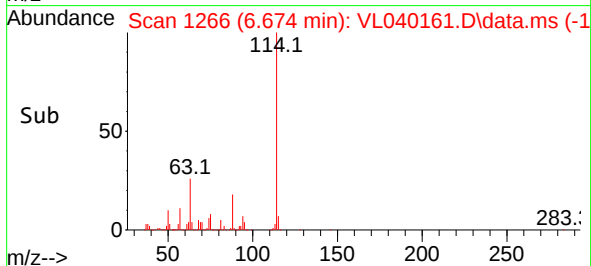
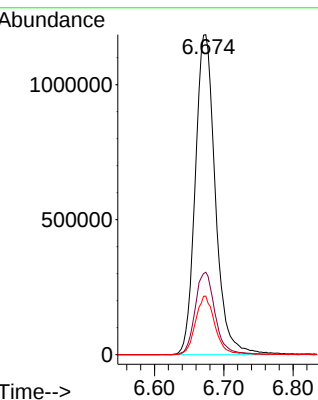
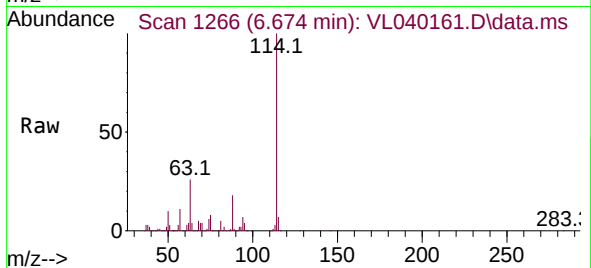
88 17.9 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023

Supervised By :Mahesh Dadoda 02/14/2023



#34

2-Butanone

Concen: 0.668 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.010 min

Lab File: VL040161.D

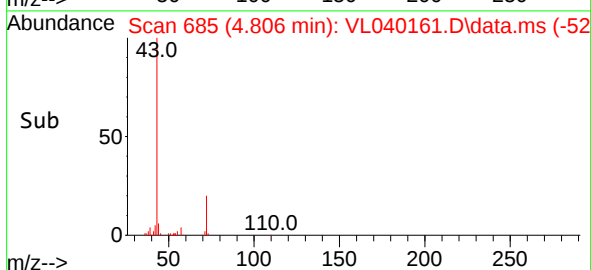
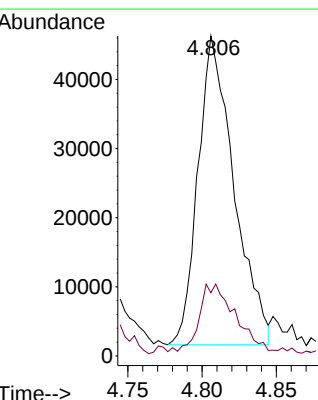
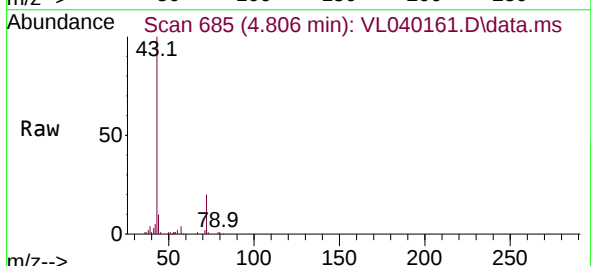
Acq: 13 Feb 2023 15:24

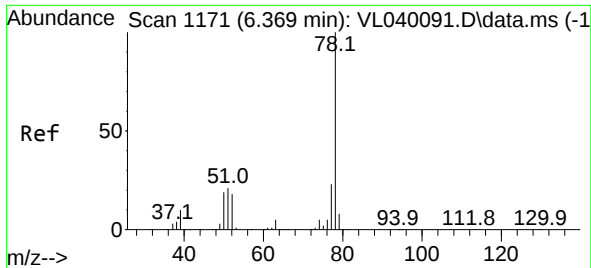
Tgt Ion: 43 Resp: 75148

Ion Ratio Lower Upper

43 100

72 27.4 18.4 27.6





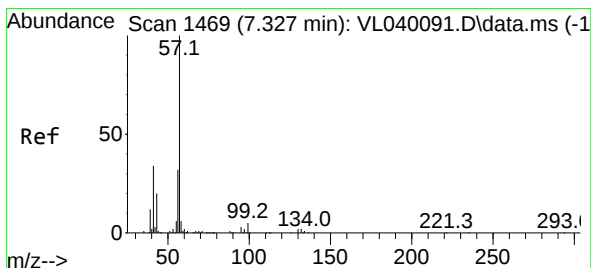
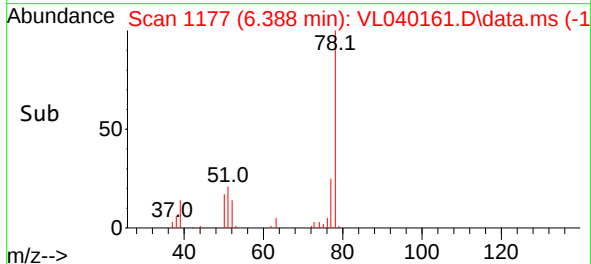
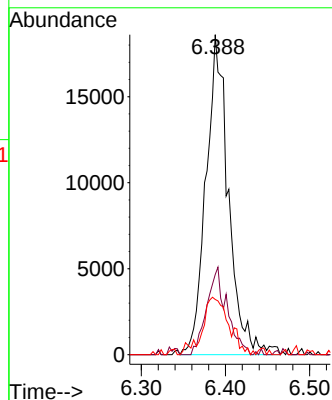
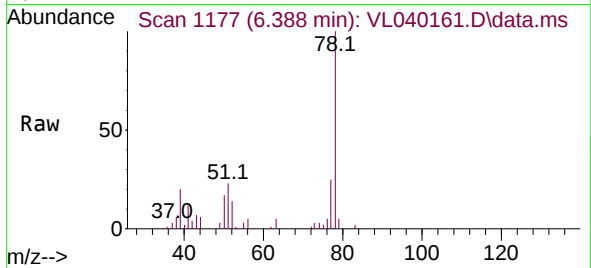
#36
Benzene
Concen: 0.197 ppbv m
RT: 6.388 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-06

Tgt Ion: 78 Resp: 34652
Ion Ratio Lower Upper
78 100
77 25.1 18.1 27.1
50 17.3 15.6 23.4

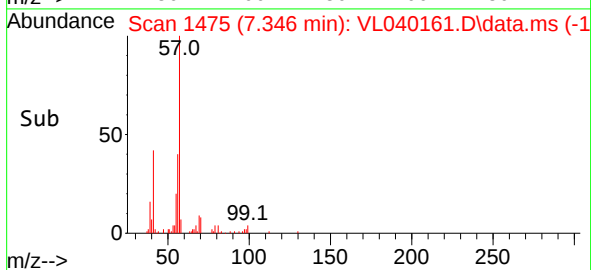
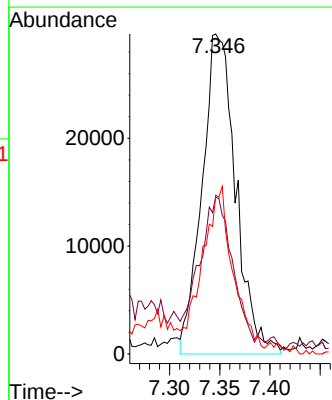
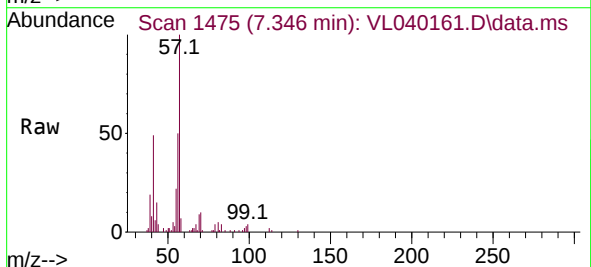
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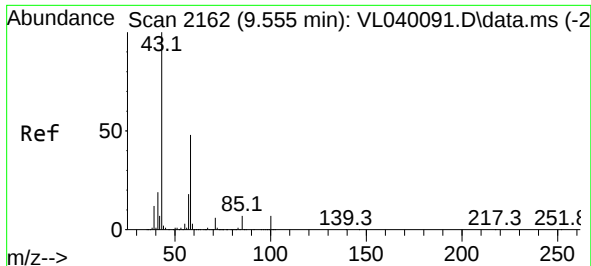
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#44
2,2,4-Trimethylpentane
Concen: 0.237 ppbv m
RT: 7.346 min Scan# 1475
Delta R.T. -0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 57 Resp: 69305
Ion Ratio Lower Upper
57 100
41 53.3 27.1 40.7#
56 51.4 25.0 37.4#





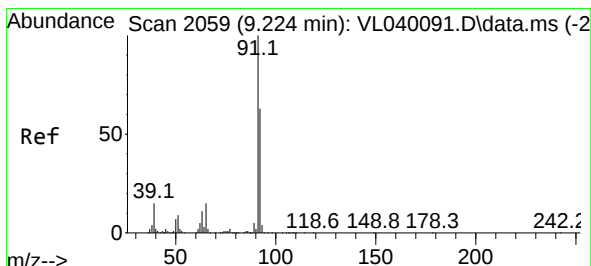
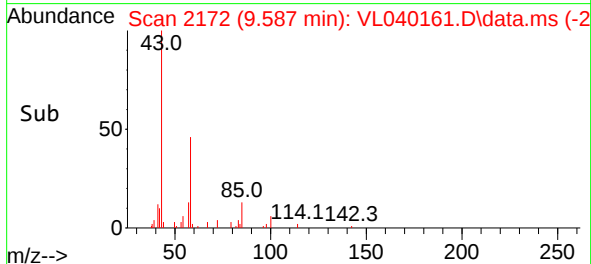
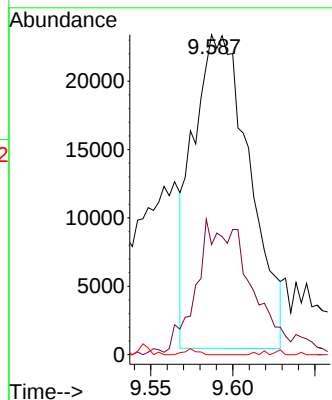
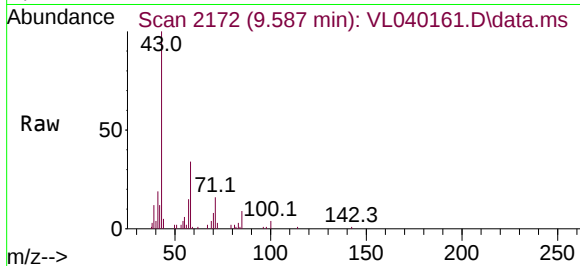
#51
2-Hexanone
Concen: 0.407 ppbv
RT: 9.587 min Scan# 2162
Delta R.T. 0.013 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-06

Tgt Ion: 43 Resp: 5458
Ion Ratio Lower Upper
43 100
58 44.7 37.5 56.3
98 0.4 0.4 0.6

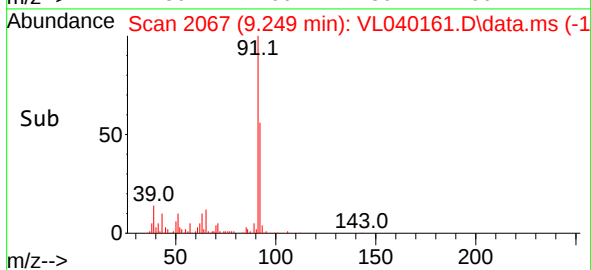
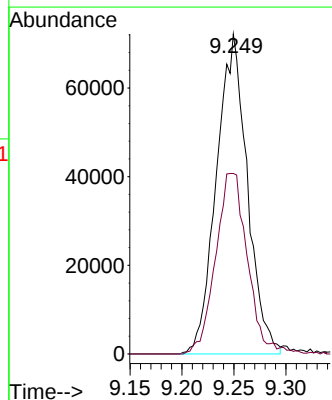
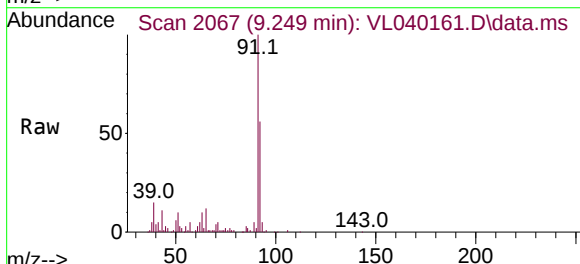
Manual Integrations
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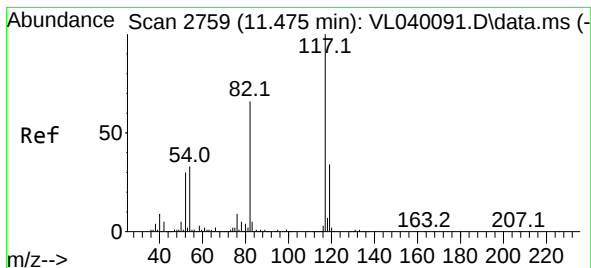
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#53
Toluene
Concen: 0.794 ppbv
RT: 9.249 min Scan# 2067
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 91 Resp: 149130
Ion Ratio Lower Upper
91 100
92 58.7 48.3 72.5





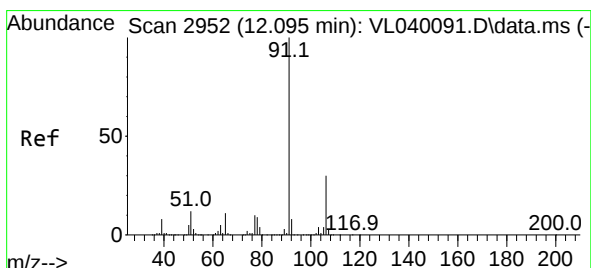
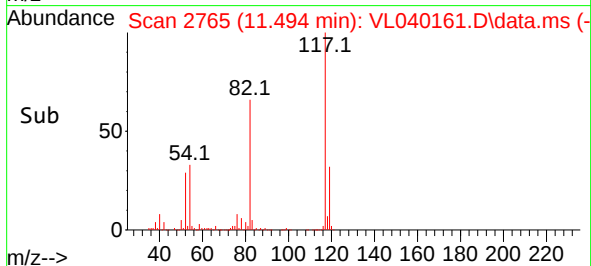
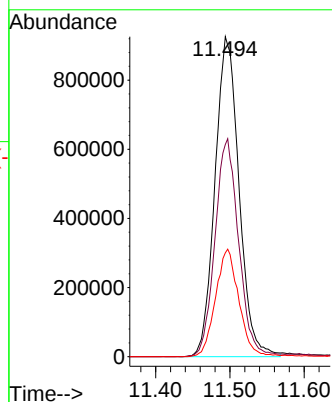
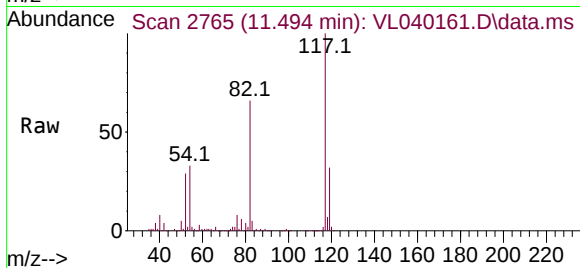
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-06

Tgt Ion:117 Resp: 2080819
Ion Ratio Lower Upper
117 100
82 68.4 54.4 81.6
119 33.2 26.8 40.2

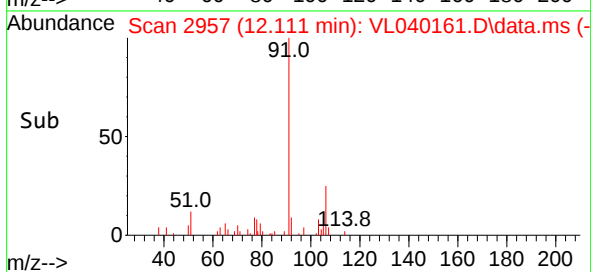
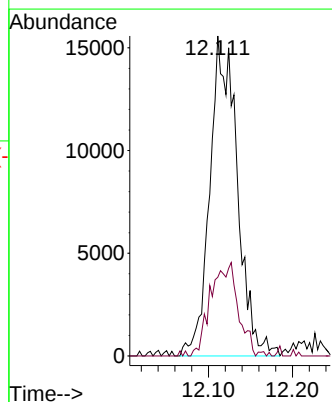
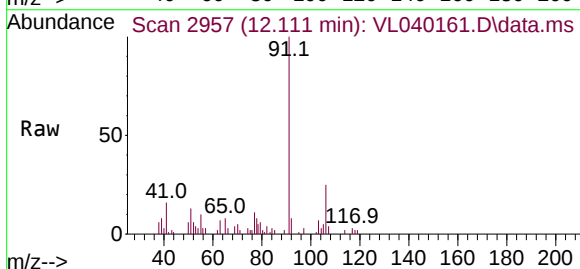
Manual Integrations
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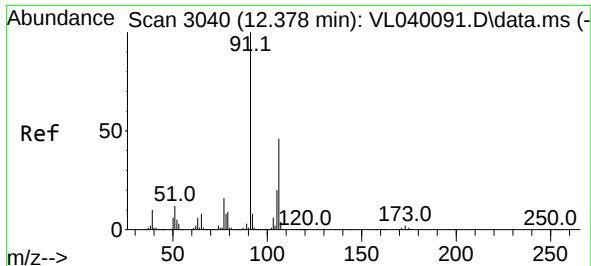
Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#58
Ethyl Benzene
Concen: 0.152 ppbv m
RT: 12.111 min Scan# 2957
Delta R.T. -0.006 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

Tgt Ion: 91 Resp: 35268
Ion Ratio Lower Upper
91 100
106 24.6 23.7 35.5





#59

m/p-Xylene

Concen: 0.545 ppbv m

RT: 12.371 min Scan# 3040

Delta R.T. -0.032 min

Lab File: VL040161.D

Acq: 13 Feb 2023 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-06

Tgt Ion: 91 Resp: 113720

Ion Ratio Lower Upper

91 100

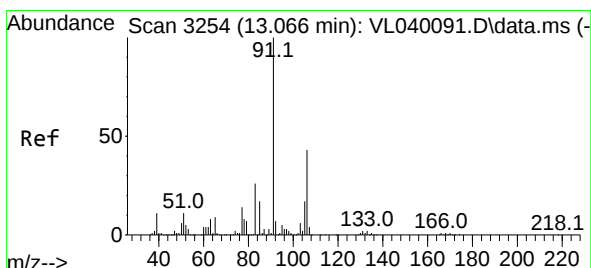
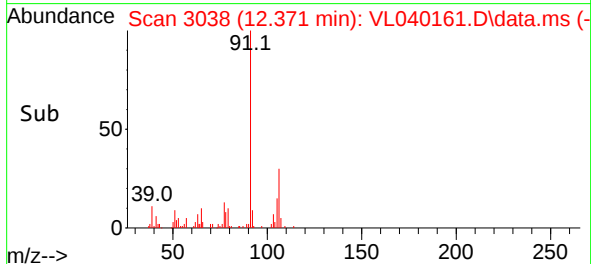
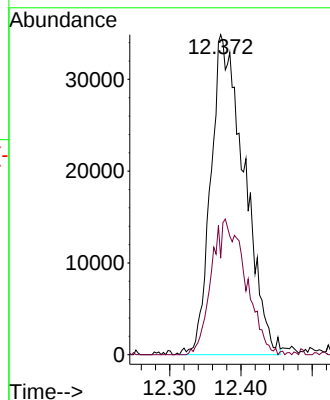
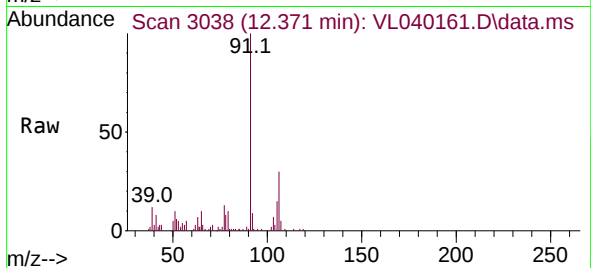
106 0.0 34.2 51.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023

Supervised By :Mahesh Dadoda 02/14/2023



#60

o-Xylene

Concen: 0.218 ppbv

RT: 13.089 min Scan# 3261

Delta R.T. -0.000 min

Lab File: VL040161.D

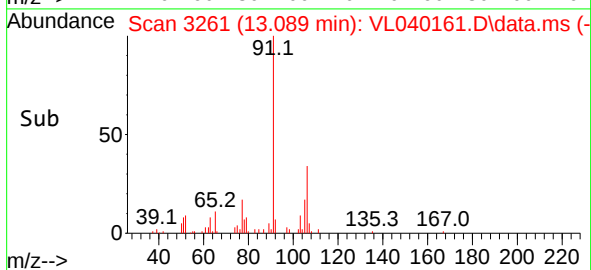
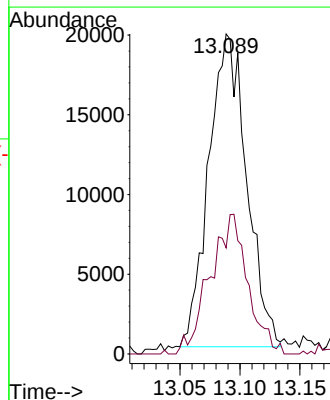
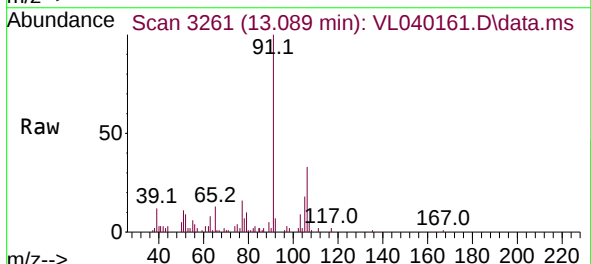
Acq: 13 Feb 2023 15:24

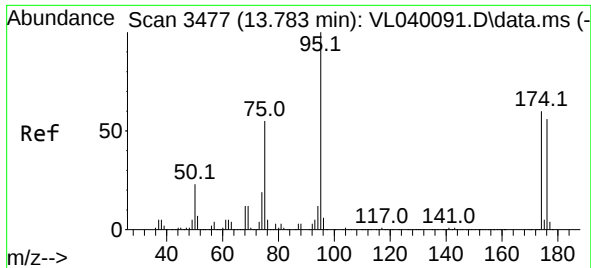
Tgt Ion: 91 Resp: 43180

Ion Ratio Lower Upper

91 100

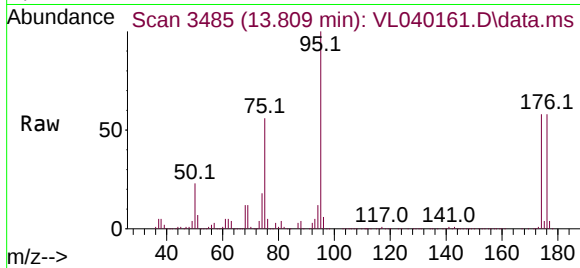
106 44.6 21.6 64.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.648 ppbv
RT: 13.809 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24

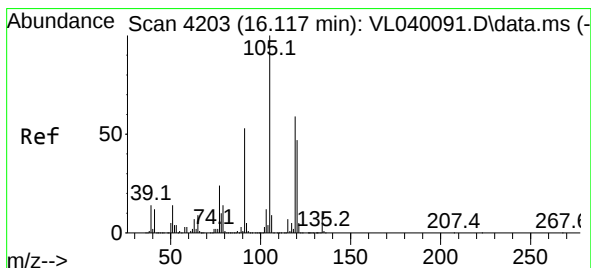
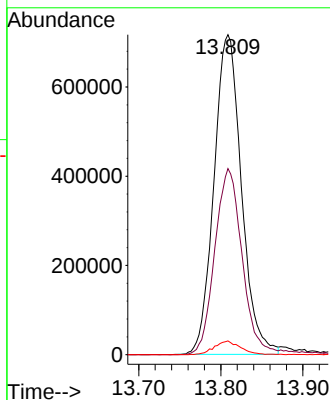
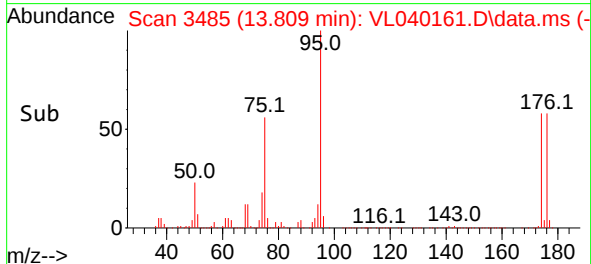
Instrument :
MSVOA_L
ClientSampleId :
SVP-06



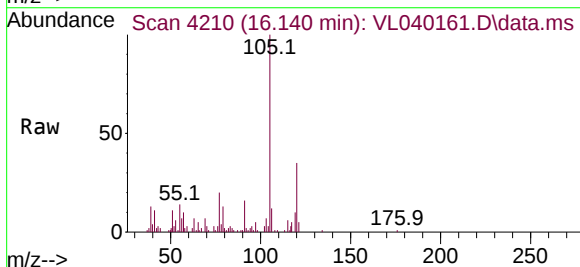
Tgt Ion: 95 Resp: 166852
Ion Ratio Lower Upper
95 100
174 59.5 47.7 71.5
175 4.1 3.4 5.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/14/2023
Supervised By :Mahesh Dadoda 02/14/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.229 ppbv m
RT: 16.140 min Scan# 4210
Delta R.T. 0.000 min
Lab File: VL040161.D
Acq: 13 Feb 2023 15:24



Tgt Ion:105 Resp: 50295
Ion Ratio Lower Upper
105 100
120 35.2 38.0 57.0#
91 16.4 42.1 63.1#
77 19.7 19.3 28.9

