

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060822\
 Data File : VL039236.D
 Acq On : 8 Jun 2022 15:41
 Operator : SY/AP
 Sample : N3199-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/09/2022
 Supervised By :Mahesh Dadoda 06/09/2022

Quant Time: Jun 09 06:40:55 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 09 06:40:55 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.674	49	1366335	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	3462336	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.092	117	2917372	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.420	95	2329589	9.659	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	3.054	85	71716m	0.299	ppbv	
3) Chlorodifluoromethane	2.996	51	73936m	0.425	ppbv	
4) Chloromethane	3.153	50	52405m	0.587	ppbv	
9) Propene	3.025	41	76417	1.008	ppbv	85
10) Heptane	8.127	43	24453	0.138	ppbv	96
11) Trichlorofluoromethane	3.960	101	48747m	0.224	ppbv	
13) Ethanol	3.603	45	453688	109.744	ppbv #	100
15) Acetone	3.854	43	474488m	3.334	ppbv	
19) Isopropyl Alcohol	3.973	45	180457	2.703	ppbv #	1
20) Methylene Chloride	4.349	84	1141885	19.038	ppbv	92
26) Hexane	5.693	57	1177366	8.352	ppbv #	39
30) Cyclohexane	7.140	84	20800m	0.176	ppbv	
34) 2-Butanone	5.253	43	41865	0.223	ppbv #	83
35) Carbon Tetrachloride	7.021	117	15444m	0.061	ppbv	
36) Benzene	6.896	78	88991	0.317	ppbv #	90
44) 2,2,4-Trimethylpentane	7.873	57	140343m	0.285	ppbv	
52) Tetrachloroethene	11.227	164	5505m	0.050	ppbv	
53) Toluene	9.809	91	202774	0.626	ppbv	99
58) Ethyl Benzene	12.712	91	42901m	0.107	ppbv	
59) m/p-Xylene	12.973	91	120150m	0.340	ppbv	
60) o-Xylene	13.696	91	49033	0.147	ppbv	98
74) 1,2,4-Trimethylbenzene	16.764	105	66694m	0.170	ppbv	

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

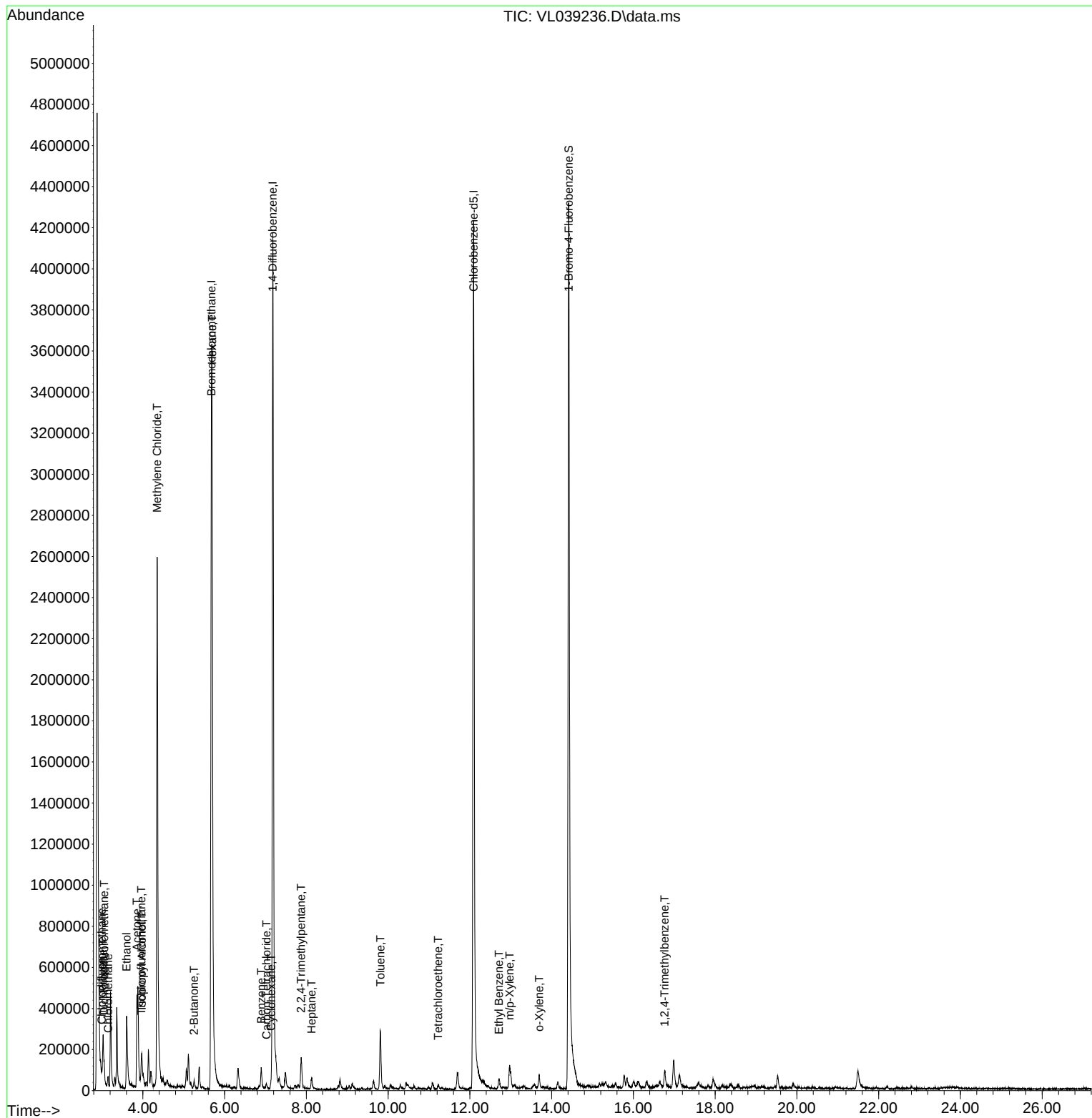
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060822\
Data File : VL039236.D
Acq On : 8 Jun 2022 15:41
Operator : SY/AP
Sample : N3199-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

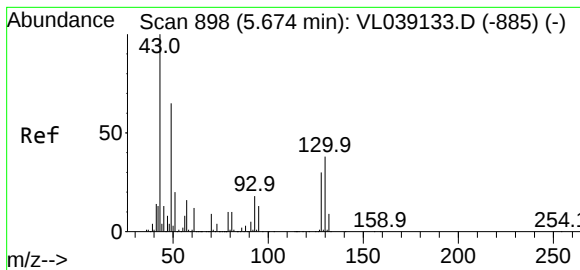
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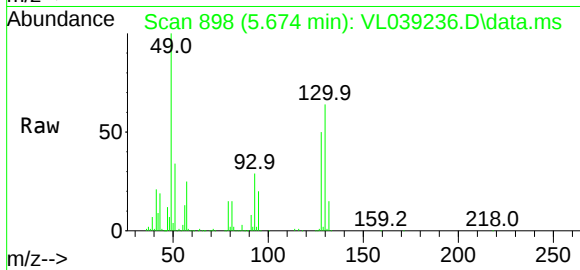
Quant Time: Jun 09 06:40:55 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.674 min Scan# 898
 Delta R.T. 0.000 min
 Lab File: VL039236.D
 Acq: 8 Jun 2022 15:41

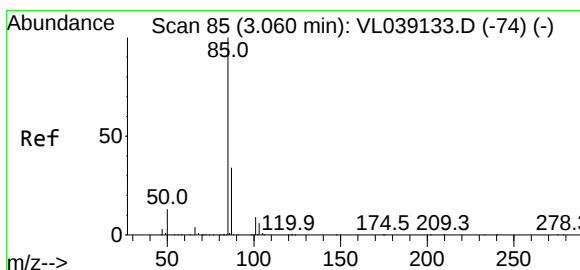
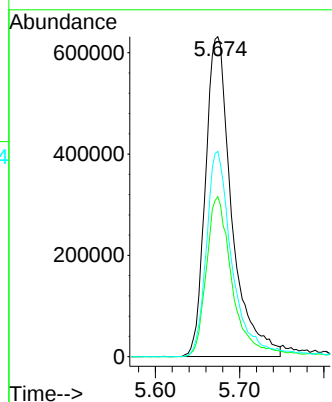
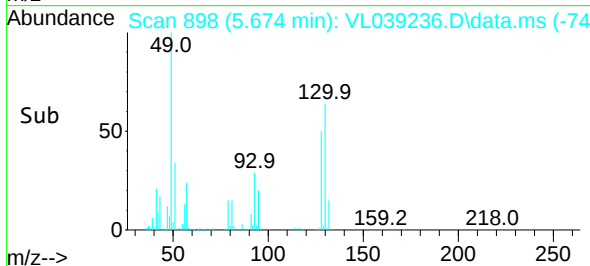
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



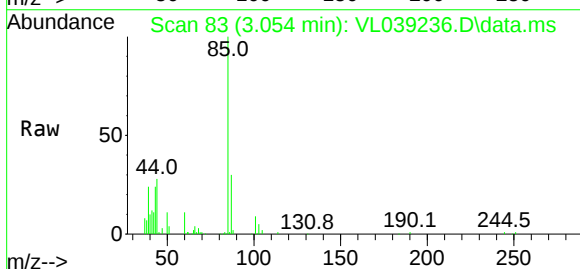
Tgt Ion: 49 Resp: 136633
 Ion Ratio Lower Upper
 49 100
 128 51.6 24.7 74.1
 130 65.9 31.4 94.0

Manual Integrations
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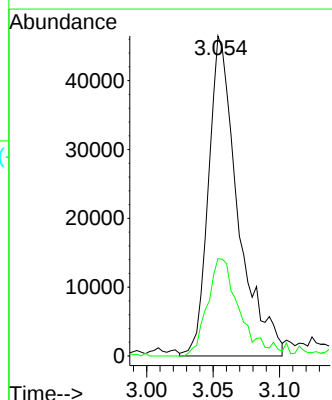
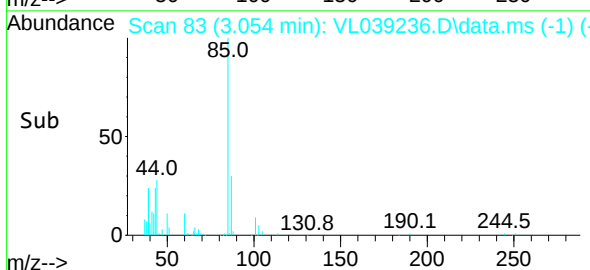
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 Supervised By :Mahesh Dadoda 06/09/2022

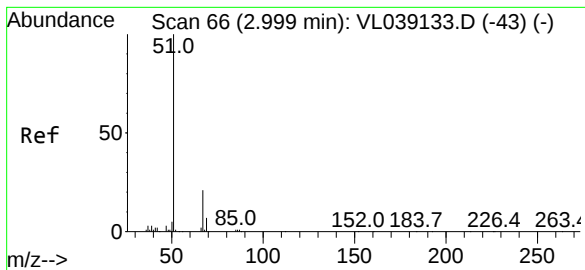


#2
 Dichlorodifluoromethane
 Concen: 0.299 ppbv m
 RT: 3.054 min Scan# 83
 Delta R.T. -0.006 min
 Lab File: VL039236.D
 Acq: 8 Jun 2022 15:41



Tgt Ion: 85 Resp: 71716
 Ion Ratio Lower Upper
 85 100
 87 30.4 26.9 40.3





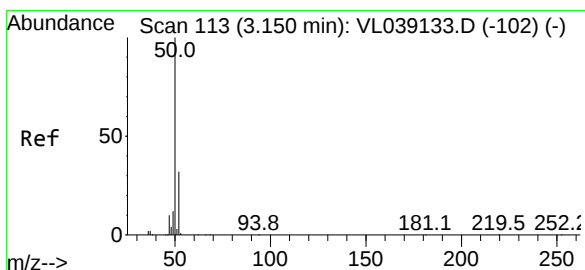
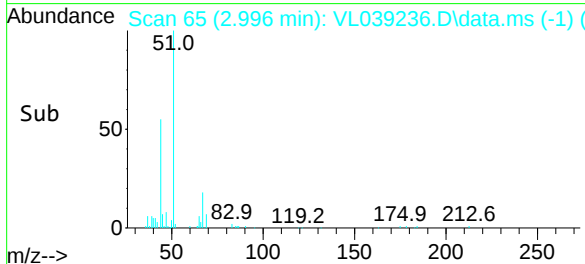
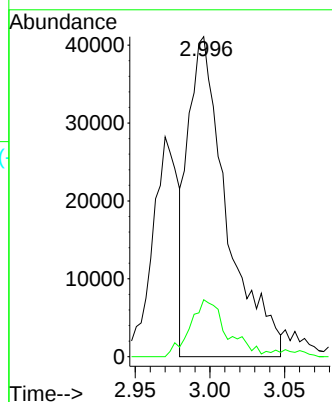
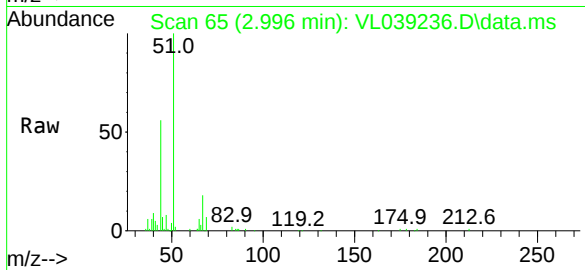
#3
Chlorodifluoromethane
Concen: 0.425 ppbv m
RT: 2.996 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 73936
Ion Ratio Lower Upper
51 100
67 18.6 16.2 24.4

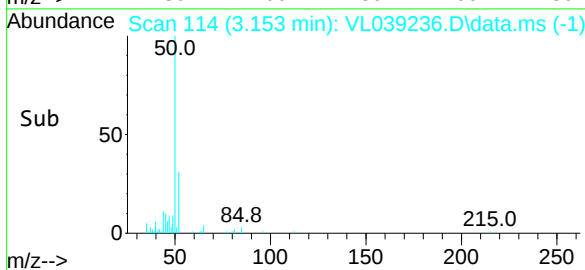
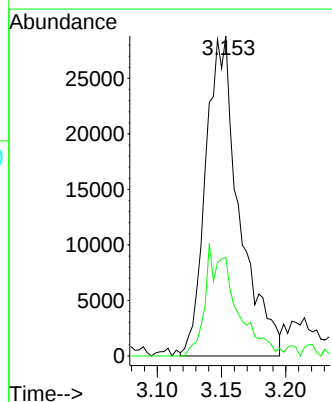
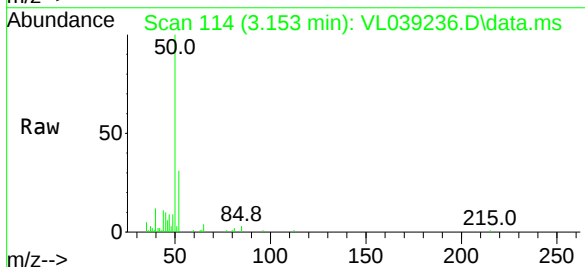
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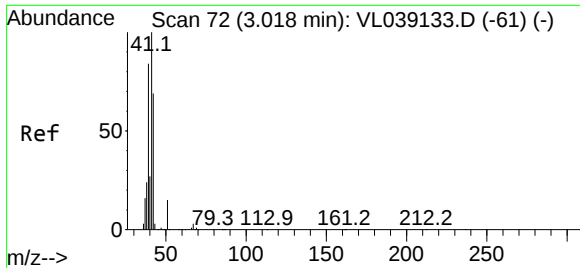
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#4
Chloromethane
Concen: 0.587 ppbv m
RT: 3.153 min Scan# 114
Delta R.T. 0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Tgt Ion: 50 Resp: 52405
Ion Ratio Lower Upper
50 100
52 30.8 25.9 38.9





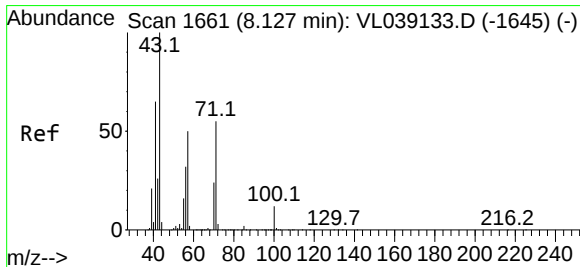
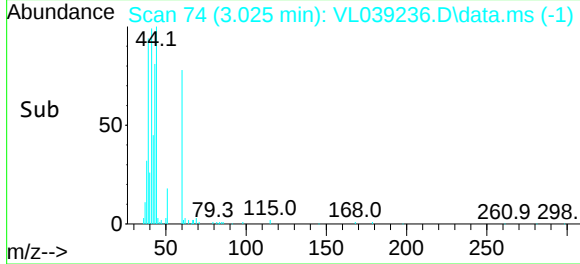
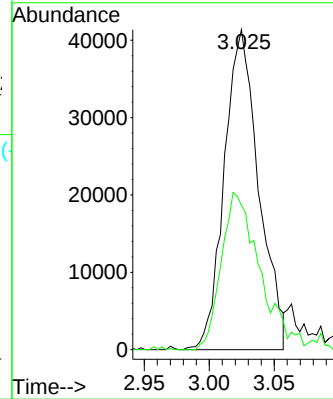
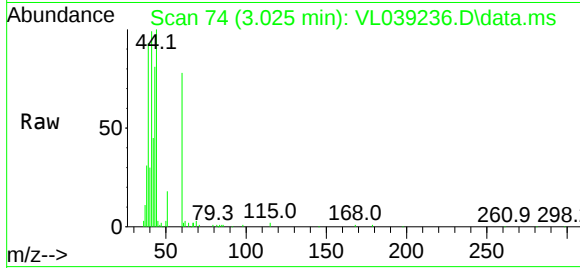
#9
Propene
Concen: 1.008 ppbv
RT: 3.025 min Scan# 74
Delta R.T. 0.006 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 7641
Ion Ratio Lower Upper
41 100
42 56.7 55.4 83.2

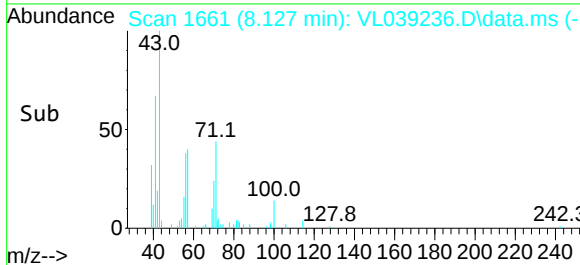
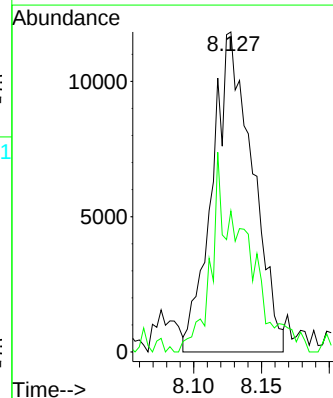
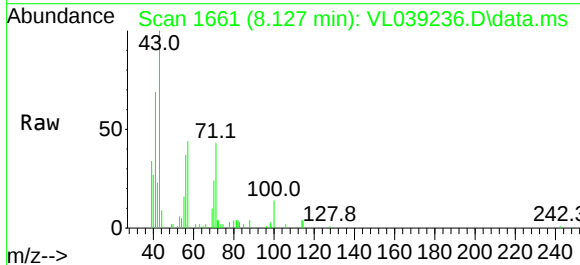
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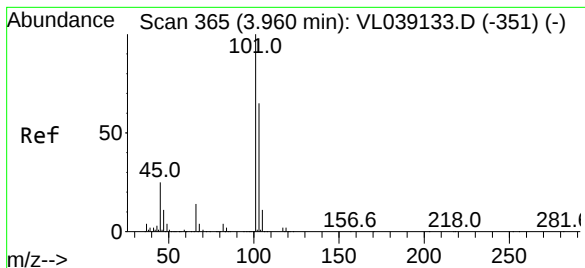
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#10
Heptane
Concen: 0.138 ppbv
RT: 8.127 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

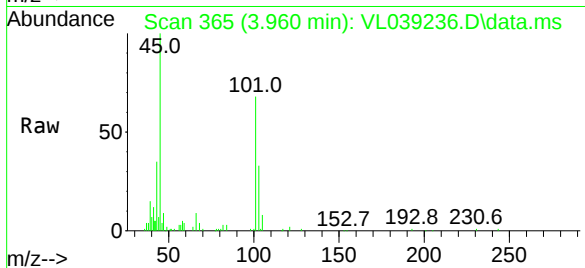
Tgt Ion: 43 Resp: 24453
Ion Ratio Lower Upper
43 100
57 54.4 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.224 ppbv m
RT: 3.960 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

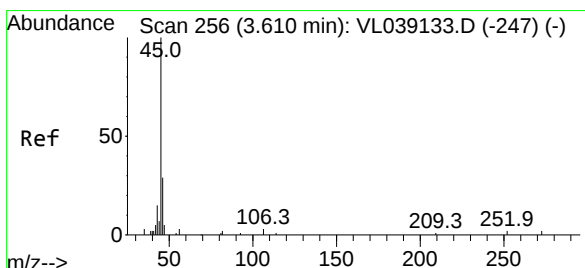
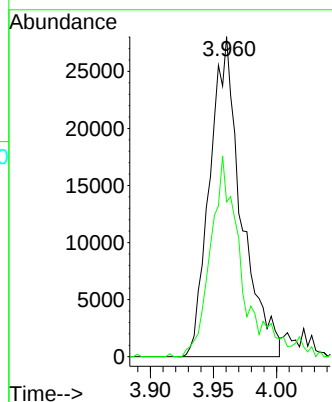
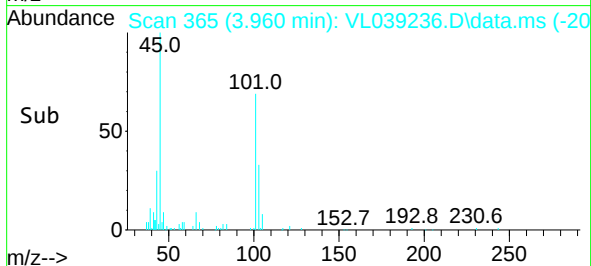
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:101 Resp: 4874
Ion Ratio Lower Upper
101 100
103 48.3 51.7 77.5

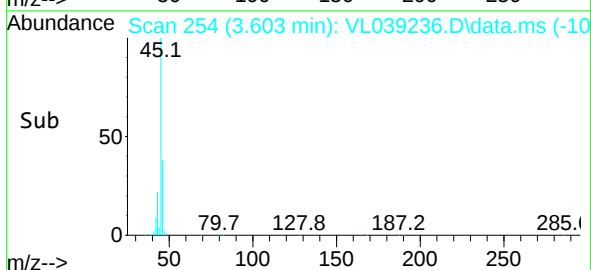
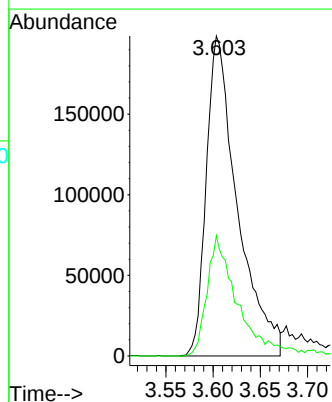
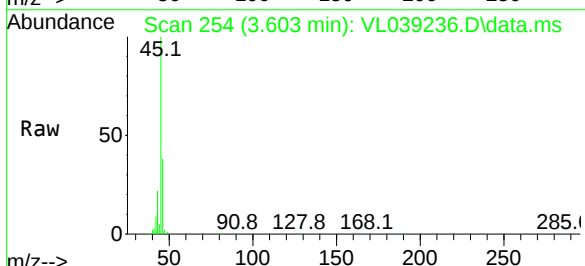
Manual Integrations
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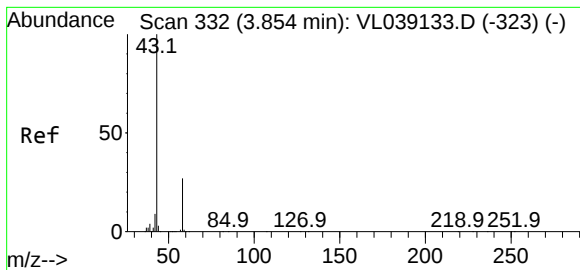
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#13
Ethanol
Concen: 109.744 ppbv
RT: 3.603 min Scan# 254
Delta R.T. -0.006 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

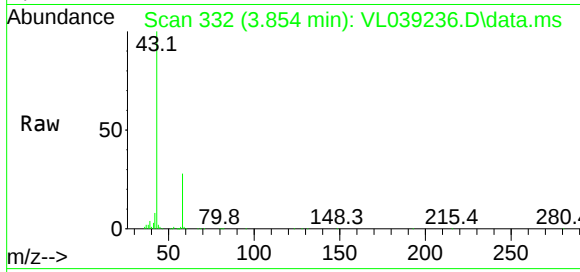
Tgt Ion: 45 Resp: 453688
Ion Ratio Lower Upper
45 100
46 36.7 0.0 0.0





#15
Acetone
Concen: 3.334 ppbv m
RT: 3.854 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

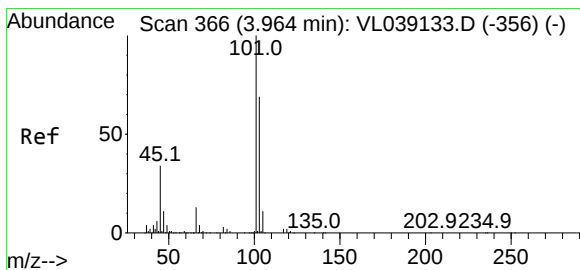
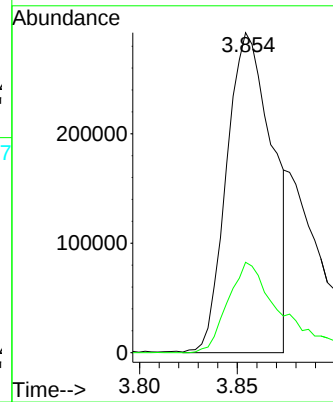
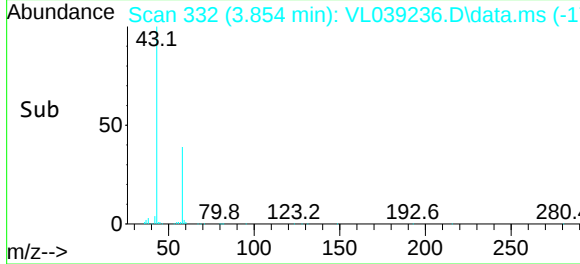
Instrument :
MSVOA_L
ClientSampleId :
OA1



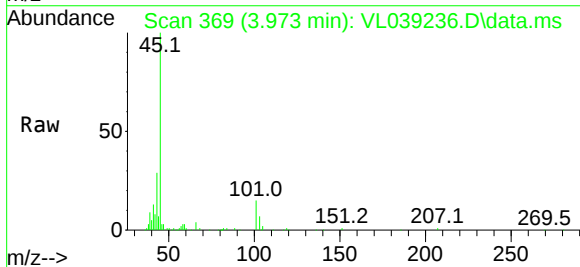
Tgt Ion: 43 Resp: 474488
Ion Ratio Lower Upper
43 100
58 35.6 22.5 33.7

Manual Integrations
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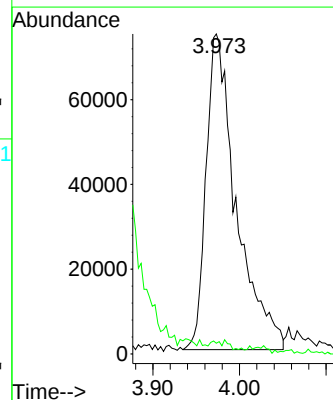
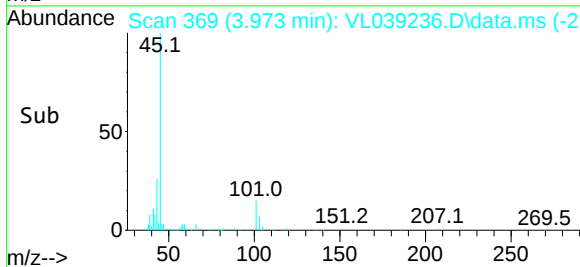
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

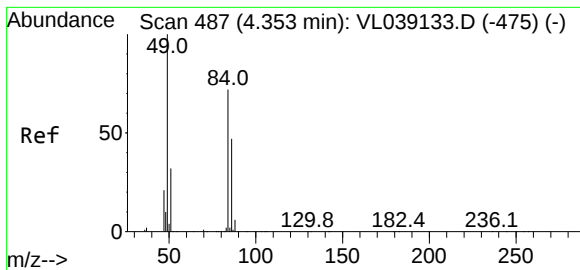


#19
Isopropyl Alcohol
Concen: 2.703 ppbv
RT: 3.973 min Scan# 369
Delta R.T. 0.010 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41



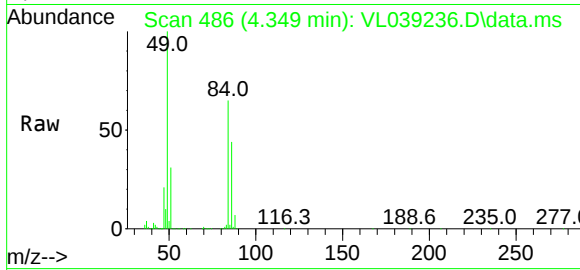
Tgt Ion: 45 Resp: 180457
Ion Ratio Lower Upper
45 100
58 96.6 1.8 2.8





#20
Methylene Chloride
Concen: 19.038 ppbv
RT: 4.349 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

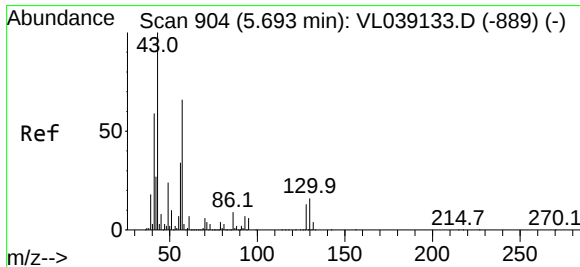
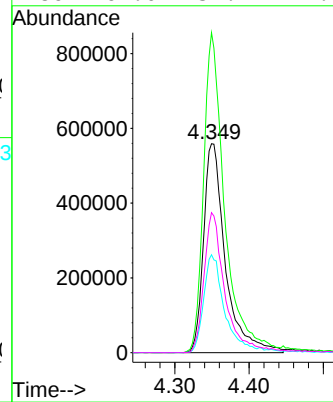
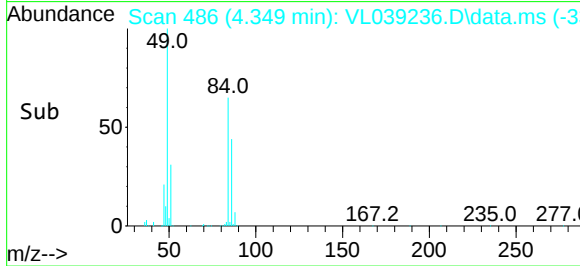


Tgt Ion: 84 Resp: 114188

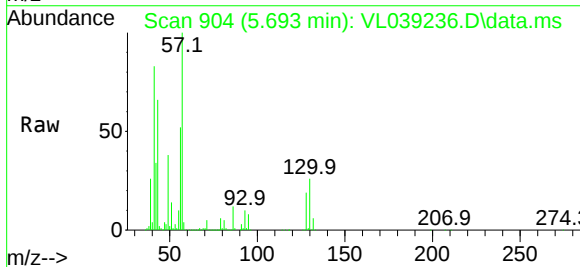
Ion	Ratio	Lower	Upper
84	100		
49	153.0	111.1	166.7
51	46.8	35.3	52.9
86	67.0	51.9	77.9

Manual Integrations
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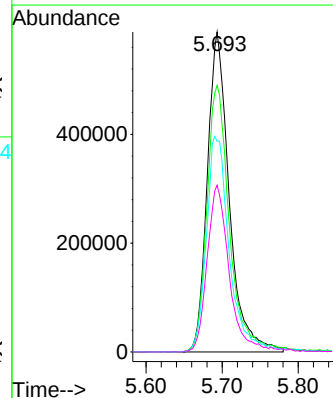
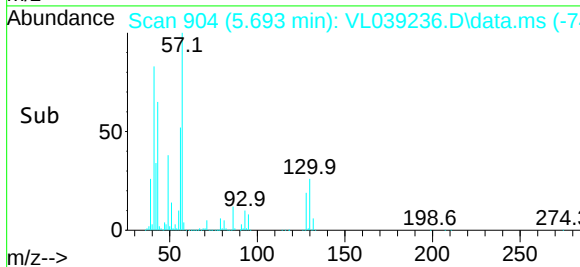


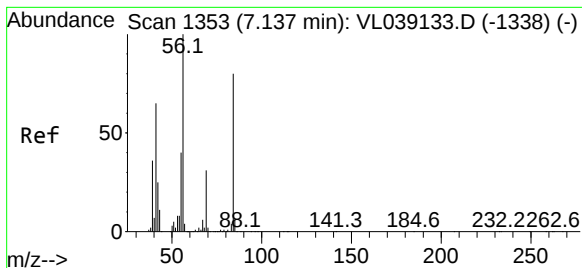
#26
Hexane
Concen: 8.352 ppbv
RT: 5.693 min Scan# 904
Delta R.T. -0.000 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41



Tgt Ion: 57 Resp: 1177366

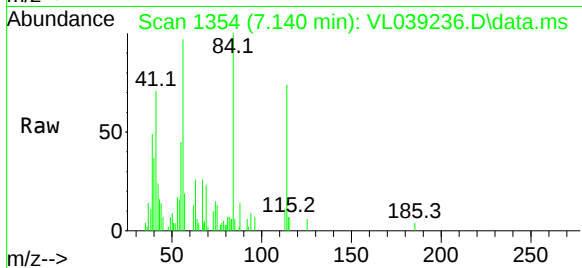
Ion	Ratio	Lower	Upper
57	100		
41	86.8	72.4	108.6
43	71.5	187.0	280.6#
56	53.2	41.8	62.6





#30
Cyclohexane
Concen: 0.176 ppbv m
RT: 7.140 min Scan# 1353
Delta R.T. 0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

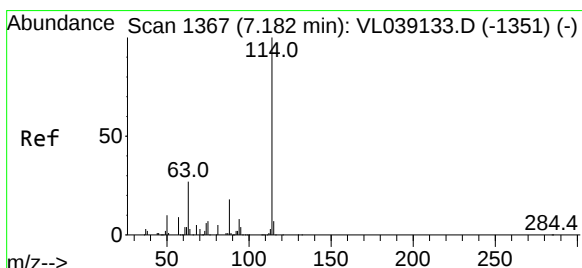
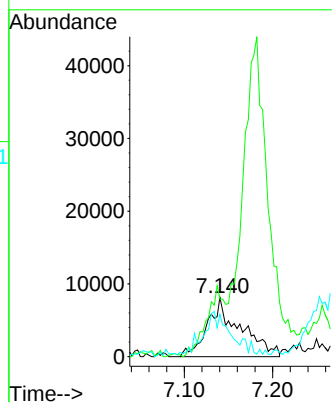
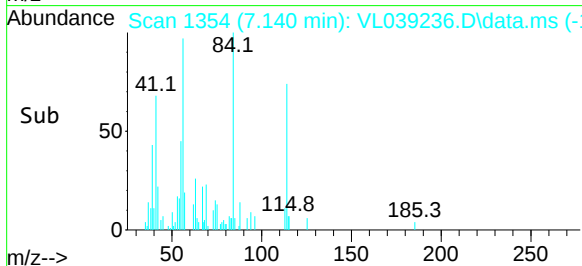
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 20800
Ion Ratio Lower Upper
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56 0.0 110.6 165.8
41 0.0 68.9 103.3

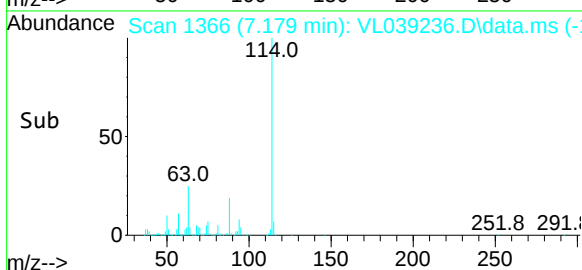
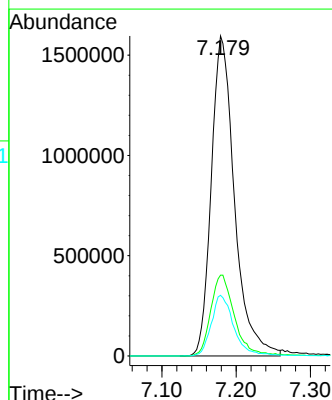
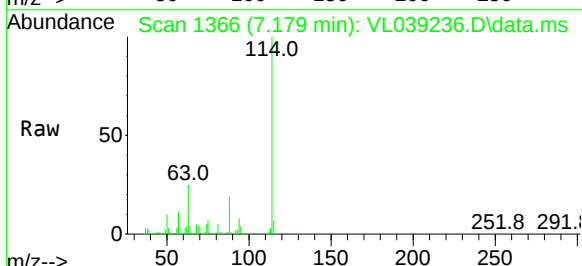
Manual Integrations
APPROVED

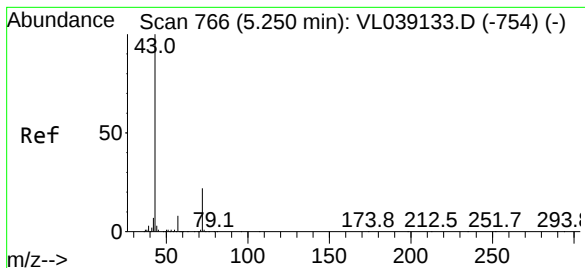
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

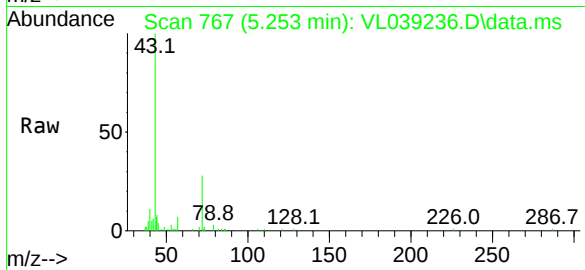
Tgt Ion:114 Resp: 3462336
Ion Ratio Lower Upper
114 100
63 26.1 21.7 32.5
88 18.7 14.8 22.2





#34
2-Butanone
Concen: 0.223 ppbv
RT: 5.253 min Scan# 767
Delta R.T. 0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

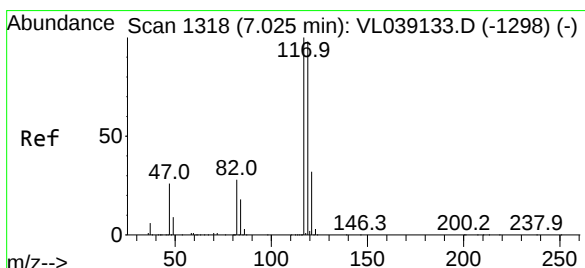
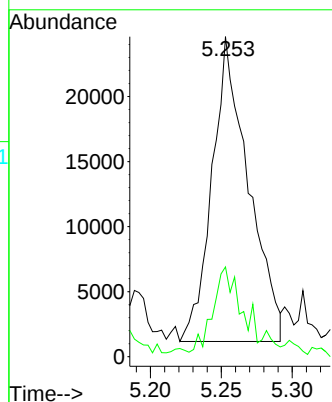
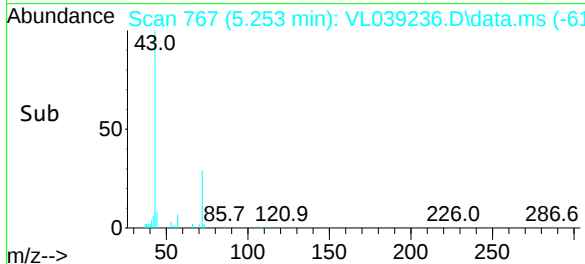
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 4186
Ion Ratio Lower Upper
43 100
72 30.9 18.2 27.2

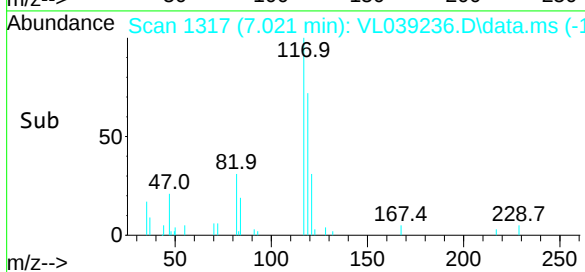
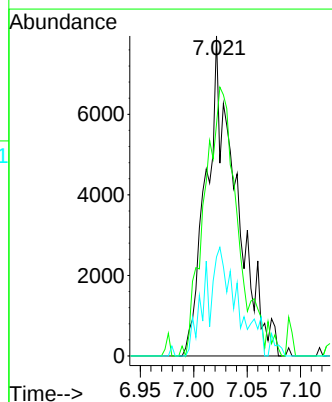
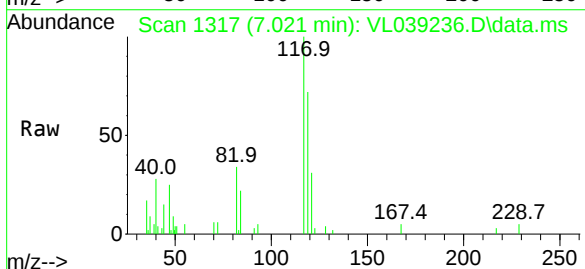
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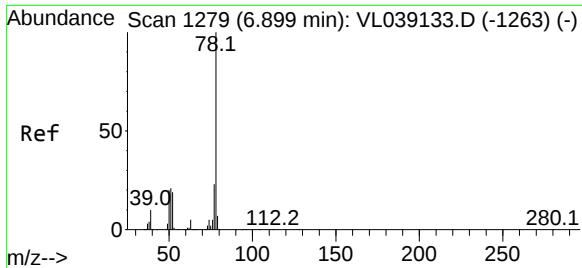
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.021 min Scan# 1317
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

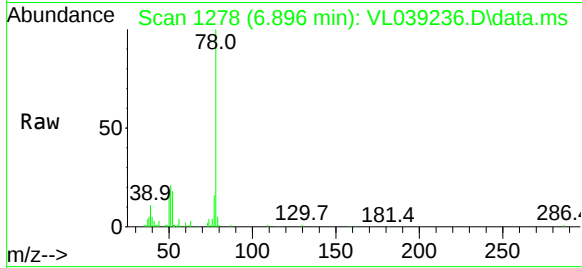
Tgt Ion:117 Resp: 15444
Ion Ratio Lower Upper
117 100
119 72.5 78.6 118.0#
121 31.0 25.4 38.0





#36
Benzene
Concen: 0.317 ppbv
RT: 6.896 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

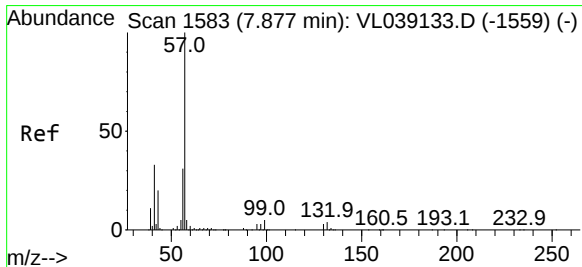
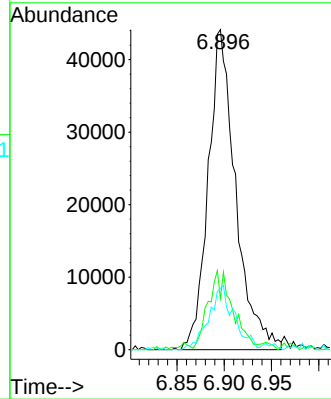
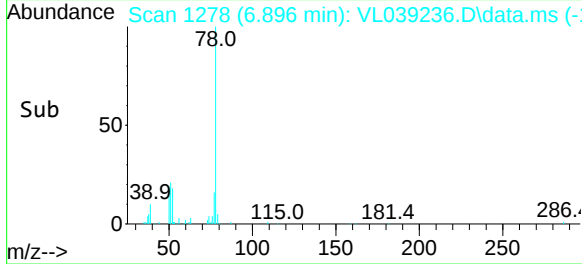
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 78 Resp: 8899
Ion Ratio Lower Upper
78 100
77 15.0 18.6 27.8
50 19.2 15.8 23.8

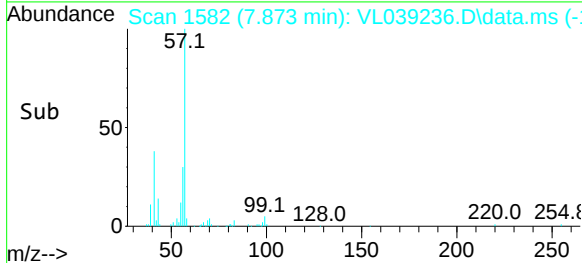
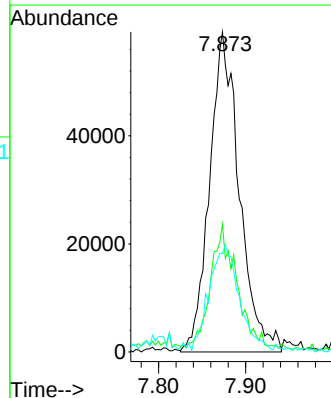
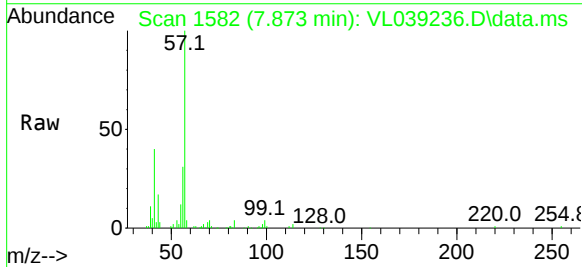
Manual Integrations
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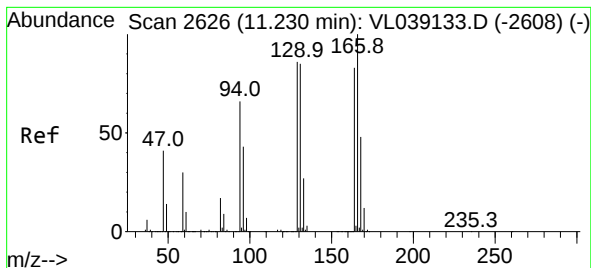
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#44
2,2,4-Trimethylpentane
Concen: 0.285 ppbv m
RT: 7.873 min Scan# 1582
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Tgt Ion: 57 Resp: 140343
Ion Ratio Lower Upper
57 100
41 38.4 26.2 39.4
56 35.8 24.7 37.1





#52

Tetrachloroethene

Concen: 0.050 ppbv m

RT: 11.227 min Scan# 2625

Delta R.T. -0.003 min

Lab File: VL039236.D

Acq: 8 Jun 2022 15:41

Instrument :

MSVOA_L

ClientSampleId :

OA1

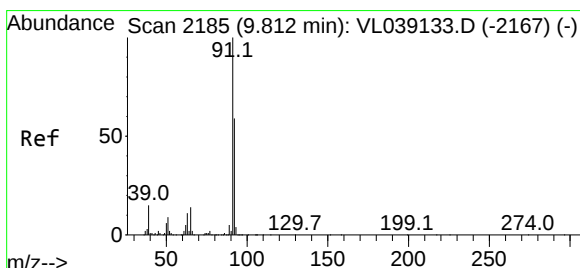
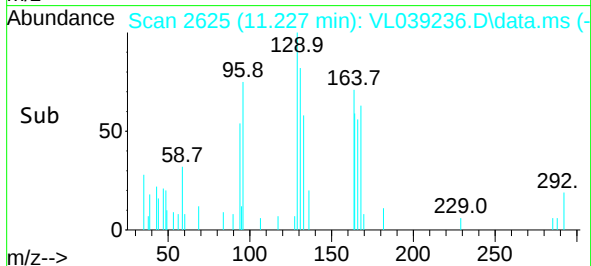
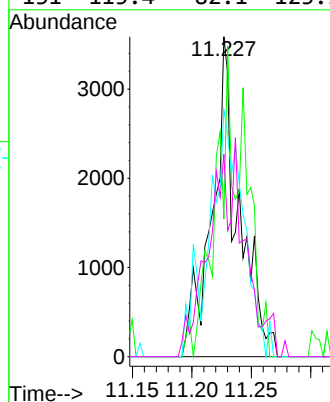
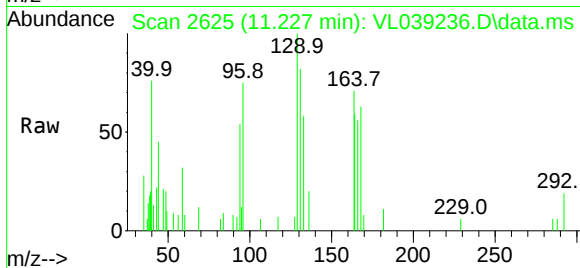
Tgt Ion:164 Resp: 550

Ion	Ratio	Lower	Upper
164	100		
166	78.4	96.3	144.5
129	140.4	82.5	123.7
131	115.4	82.1	123.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#53

Toluene

Concen: 0.626 ppbv

RT: 9.809 min Scan# 2184

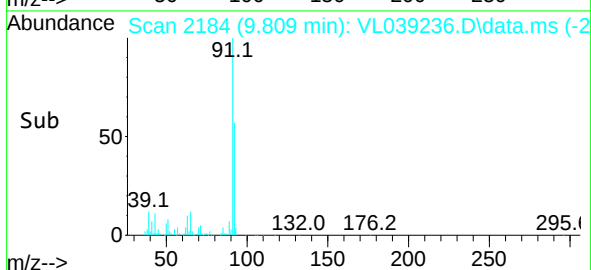
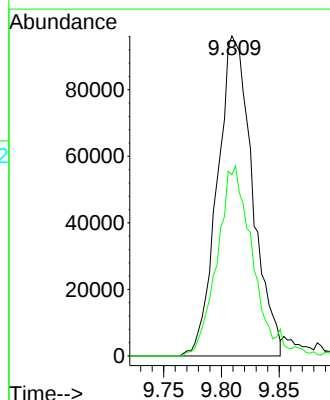
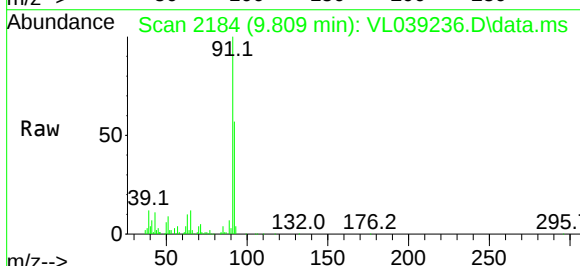
Delta R.T. -0.003 min

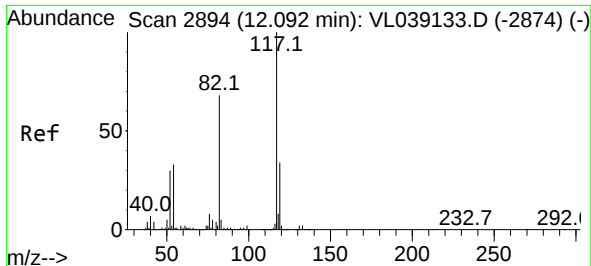
Lab File: VL039236.D

Acq: 8 Jun 2022 15:41

Tgt Ion: 91 Resp: 202774

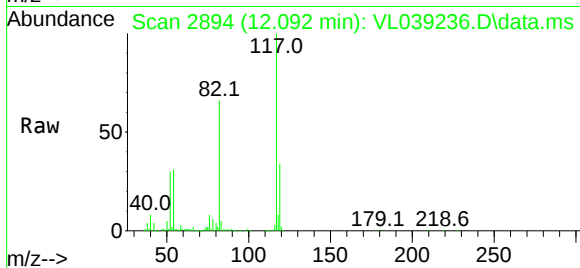
Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.1	72.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.092 min Scan# 2894
Delta R.T. 0.000 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

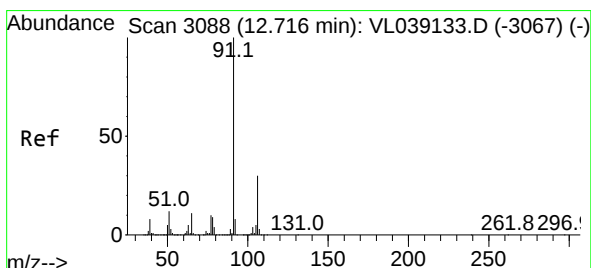
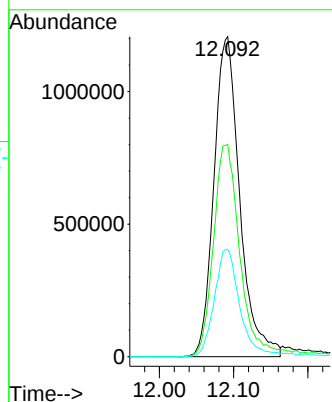
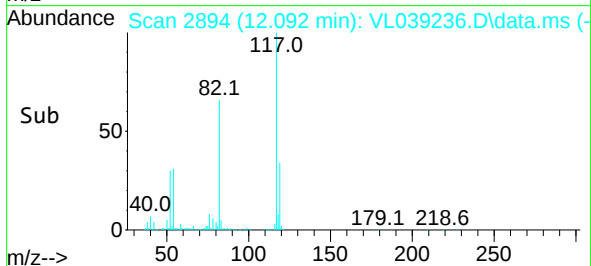
Instrument :
MSVOA_L
ClientSampleId :
OA1



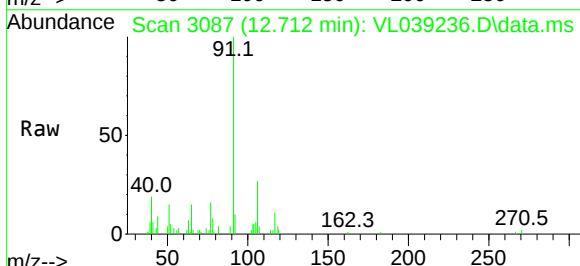
Tgt Ion:117 Resp: 291737
Ion Ratio Lower Upper
117 100
82 69.7 55.1 82.7
119 33.9 24.7 37.1

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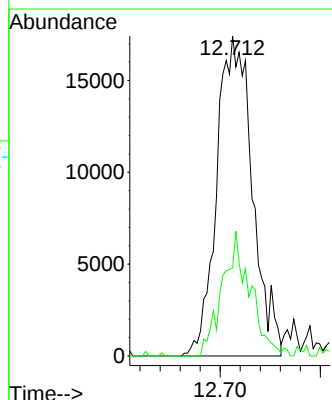
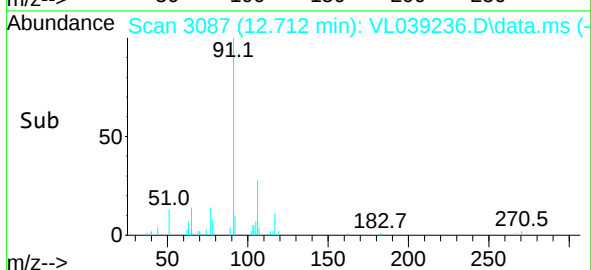
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

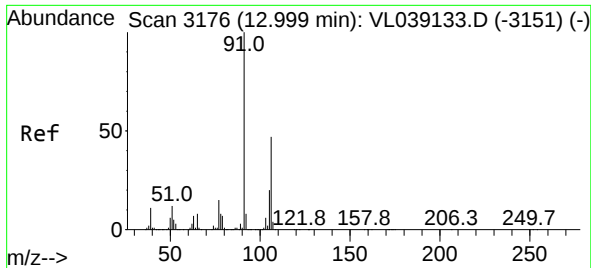


#58
Ethyl Benzene
Concen: 0.107 ppbv m
RT: 12.712 min Scan# 3087
Delta R.T. -0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41



Tgt Ion: 91 Resp: 42901
Ion Ratio Lower Upper
91 100
106 27.5 24.2 36.4





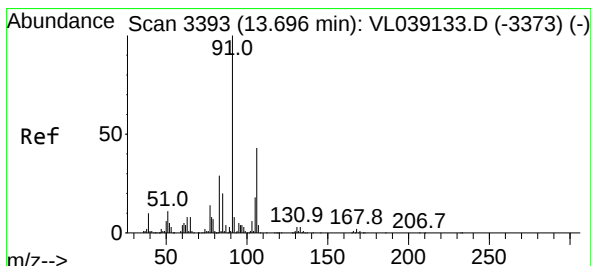
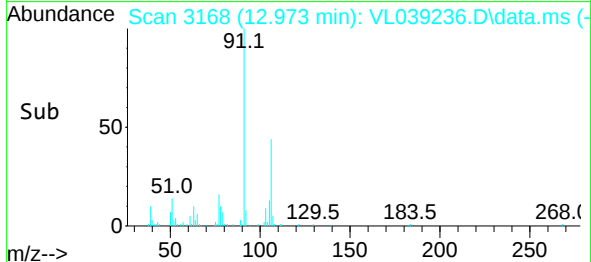
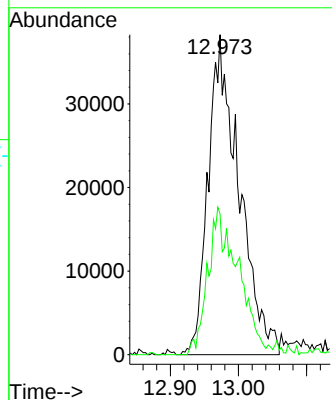
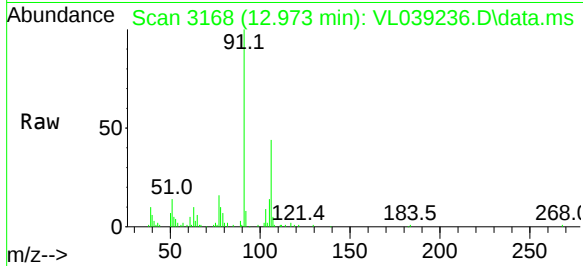
#59
m/p-Xylene
Concen: 0.340 ppbv m
RT: 12.973 min Scan# 3176
Delta R.T. -0.026 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 120150
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5

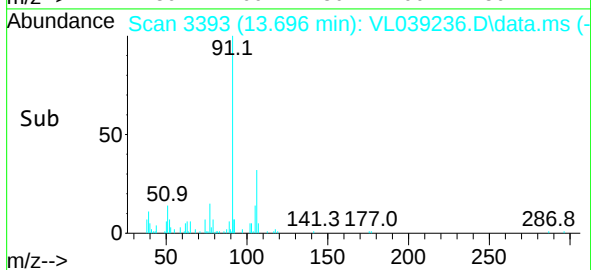
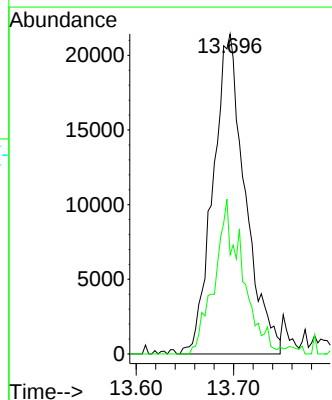
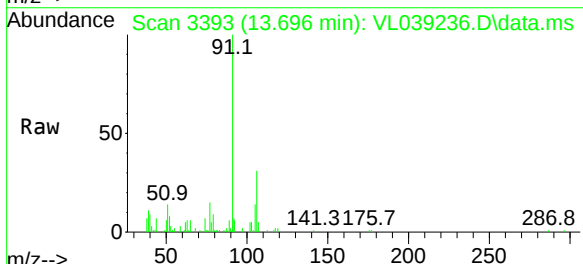
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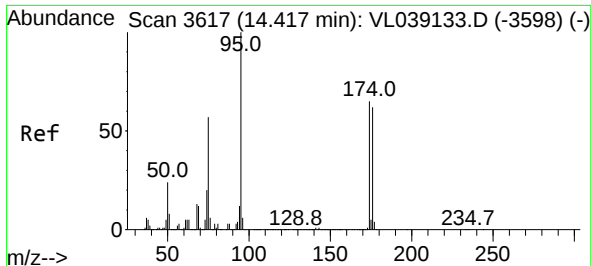
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#60
o-Xylene
Concen: 0.147 ppbv
RT: 13.696 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

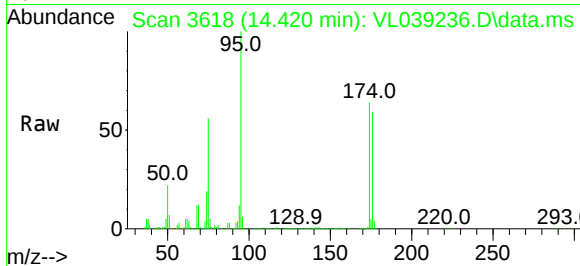
Tgt Ion: 91 Resp: 49033
Ion Ratio Lower Upper
91 100
106 43.1 22.3 66.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.659 ppbv
RT: 14.420 min Scan# 3618
Delta R.T. 0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41

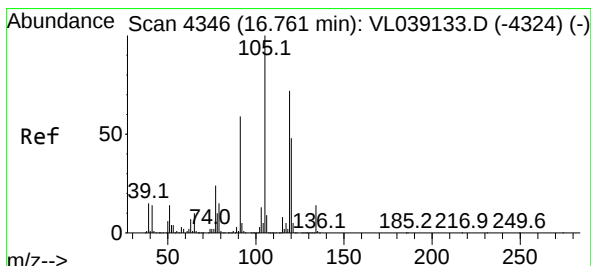
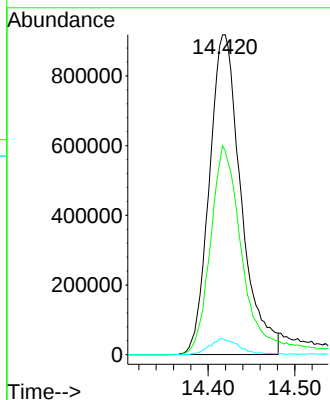
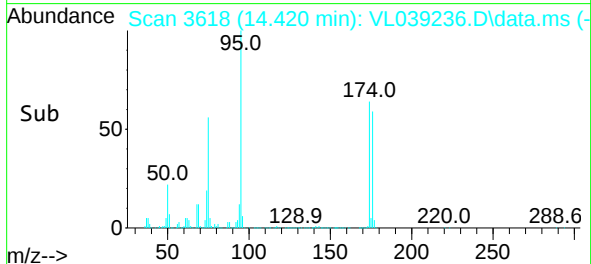
Instrument :
MSVOA_L
ClientSampleId :
OA1



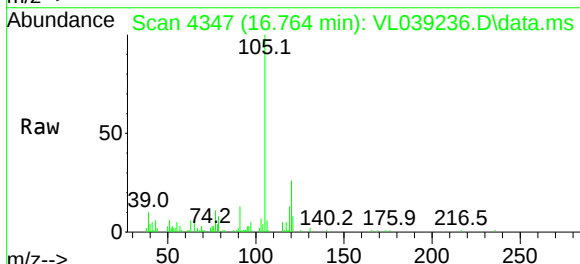
Tgt Ion: 95 Resp: 2329589
Ion Ratio Lower Upper
95 100
174 69.4 53.8 80.8
175 4.8 4.1 6.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.170 ppbv m
RT: 16.764 min Scan# 4347
Delta R.T. 0.003 min
Lab File: VL039236.D
Acq: 8 Jun 2022 15:41



Tgt Ion:105 Resp: 66694
Ion Ratio Lower Upper
105 100
120 26.0 38.1 57.1#
91 13.0 47.4 71.0#
77 10.5 19.5 29.3#

