

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032822\
 Data File : VL038781.D
 Acq On : 28 Mar 2022 21:41
 Operator : SY/AP
 Sample : N2078-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-8

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022
 Supervised By : Mahesh Dadoda 03/29/2022

Quant Time: Mar 29 06:13:45 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 29 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	801352	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	2191758	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	1987203	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.404	95	1482037	9.727	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	3.051	85	33554	0.311	ppbv	95
3) Chlorodifluoromethane	2.993	51	26649	0.315	ppbv	96
4) Chloromethane	3.141	50	23552	0.507	ppbv	98
9) Propene	3.012	41	422619	10.343	ppbv	99
10) Heptane	8.115	43	317035	3.246	ppbv	97
11) Trichlorofluoromethane	3.948	101	25840	0.272	ppbv	95
13) Ethanol	3.597	45	919524	204.005	ppbv	100
15) Acetone	3.851	43	108779m	1.573	ppbv	
20) Methylene Chloride	4.343	84	55476	1.905	ppbv	92
26) Hexane	5.684	57	694030	8.906	ppbv #	39
30) Cyclohexane	7.128	84	179748	2.653	ppbv	92
34) 2-Butanone	5.243	43	35862	0.413	ppbv #	90
35) Carbon Tetrachloride	7.012	117	5796m	0.046	ppbv	
36) Benzene	6.880	78	851680	5.035	ppbv	98
44) 2,2,4-Trimethylpentane	7.864	57	1135628	3.998	ppbv #	87
53) Toluene	9.796	91	2534853	13.946	ppbv	100
58) Ethyl Benzene	12.696	91	427343	1.839	ppbv	94
59) m/p-Xylene	12.954	91	971324	4.780	ppbv	96
60) o-Xylene	13.680	91	284501	1.475	ppbv	98
64) n-propylbenzene	15.548	120	7940m	0.104	ppbv	
72) 4-Ethyltoluene	15.825	105	43658m	0.192	ppbv	
73) 1,3,5-Trimethylbenzene	15.986	105	25417m	0.122	ppbv	
74) 1,2,4-Trimethylbenzene	16.754	105	57502	0.254	ppbv #	75

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

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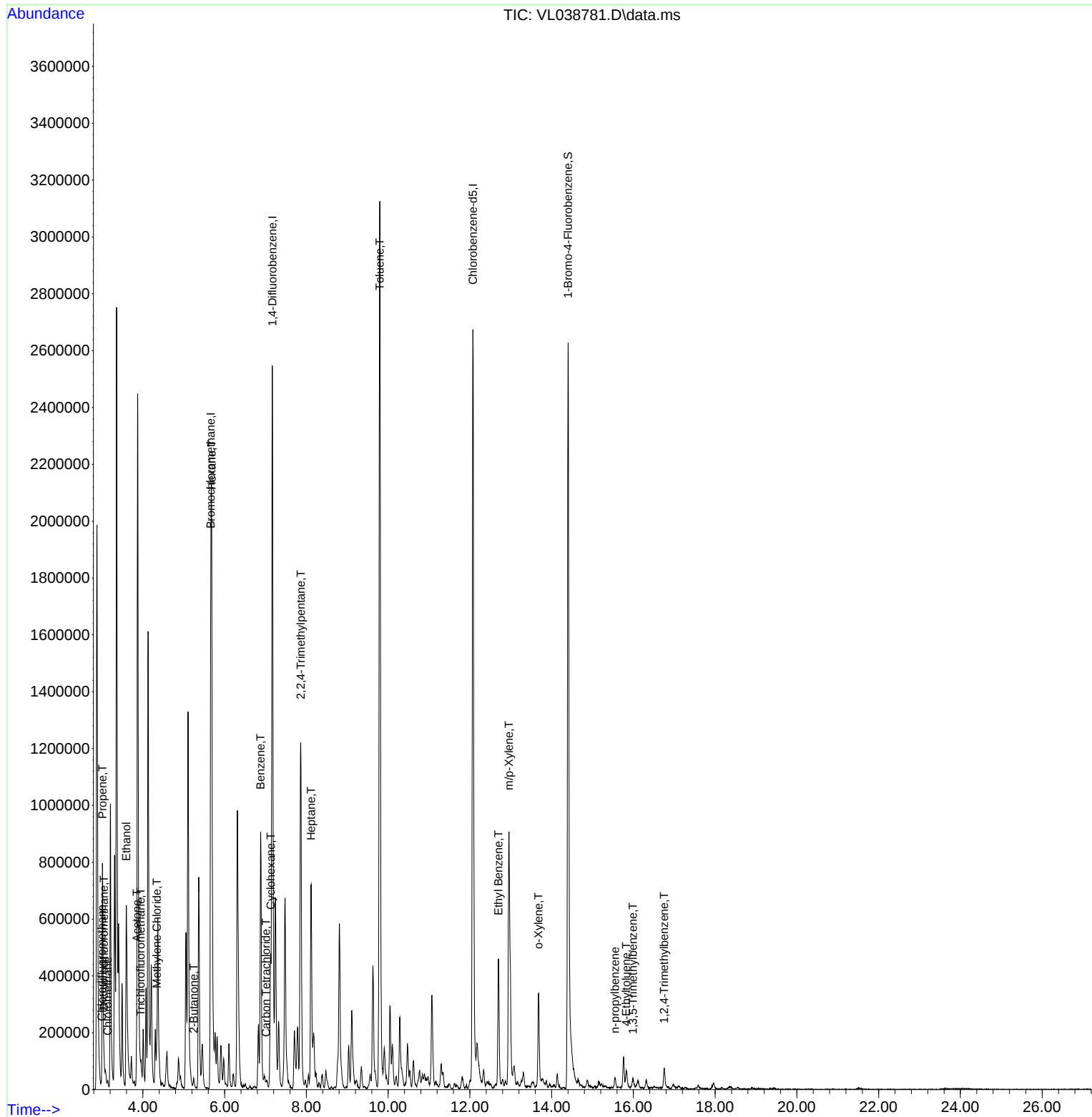
Quant Time: Mar 29 06:13:45 2022

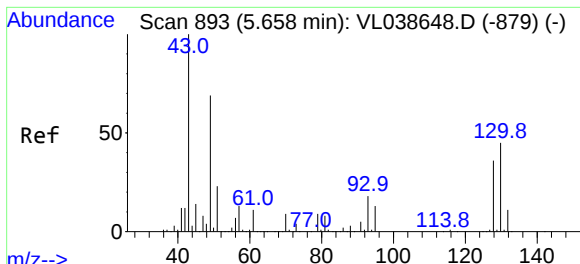
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar

QLast Update : Mon Mar 21 17:09:26 2022

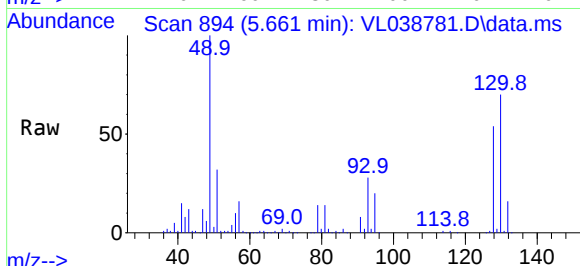
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.661 min Scan# 89
Delta R.T. 0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

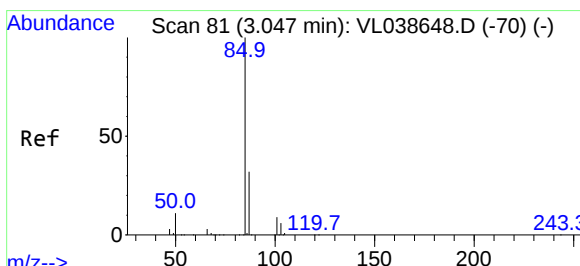
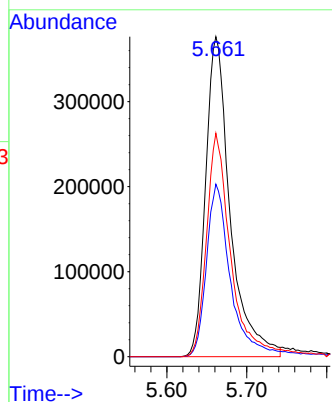
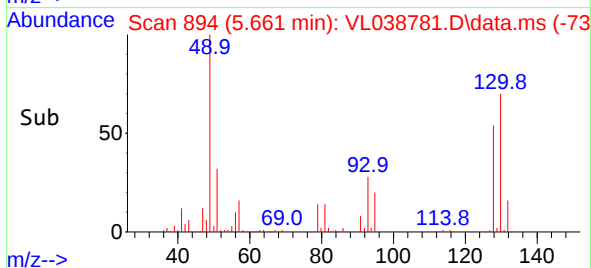
Instrument :
MSVOA_L
ClientSampleId :
V-8



Tgt Ion: 49 Resp: 801352
Ion Ratio Lower Upper
49 100
128 55.0 26.2 78.6
130 71.5 33.7 101.1

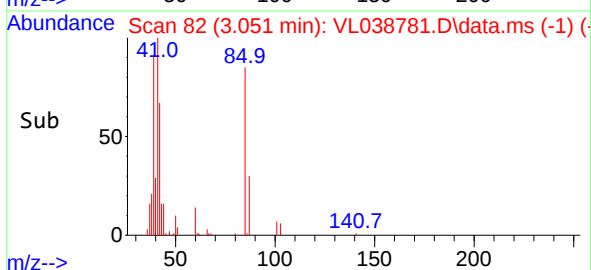
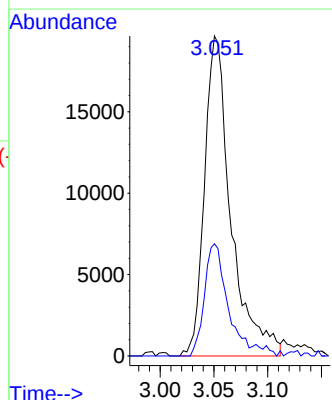
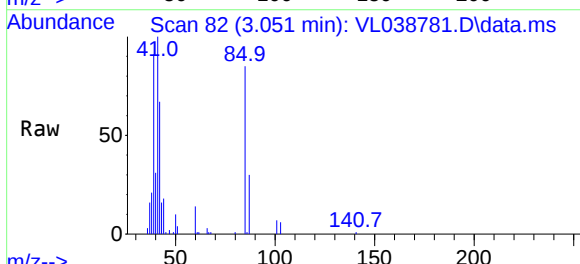
Manual Integrations
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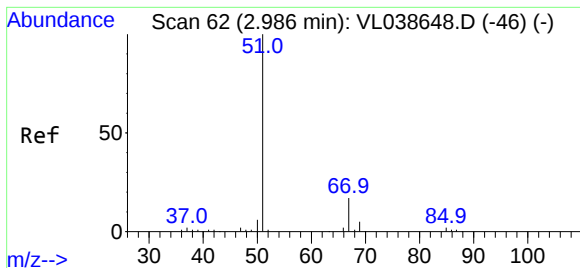
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#2
Dichlorodifluoromethane
Concen: 0.311 ppbv
RT: 3.051 min Scan# 82
Delta R.T. 0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

Tgt Ion: 85 Resp: 33554
Ion Ratio Lower Upper
85 100
87 35.0 26.0 39.0





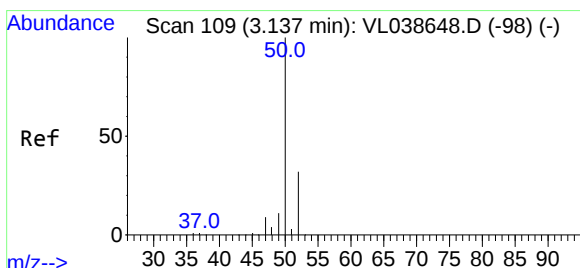
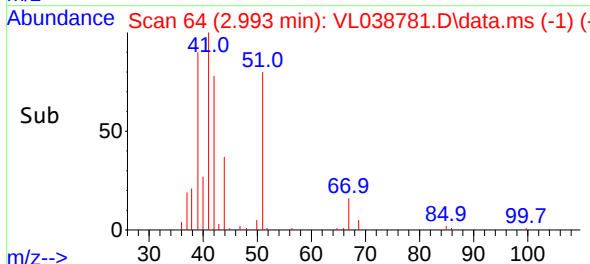
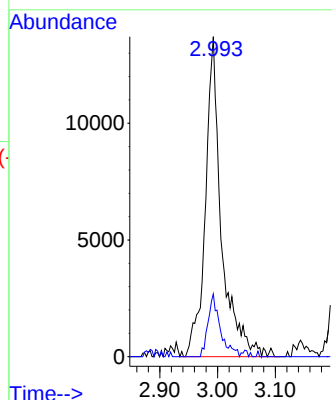
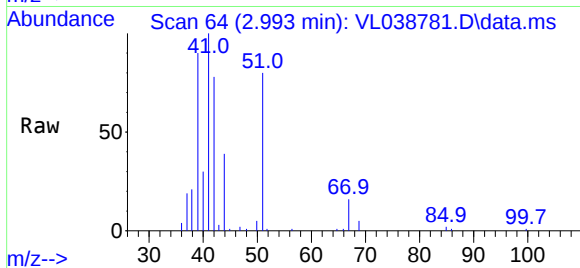
#3
Chlorodifluoromethane
Concen: 0.315 ppbv
RT: 2.993 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

Instrument :
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ClientSampleId :
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Tgt Ion: 51 Resp: 26649
Ion Ratio Lower Upper
51 100
67 15.8 14.1 21.1

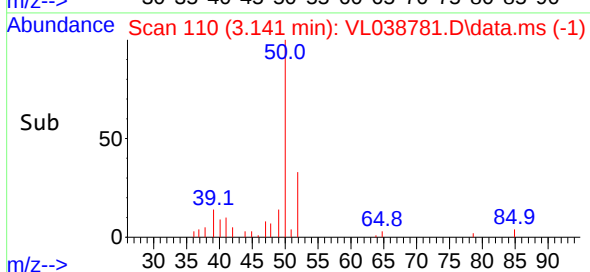
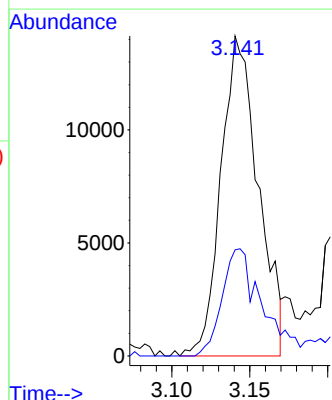
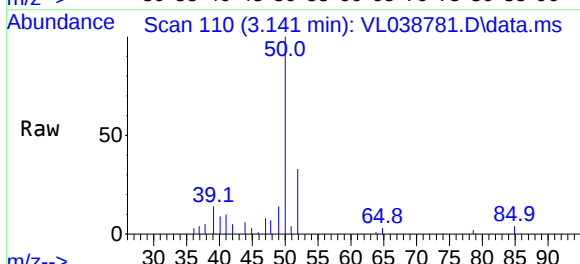
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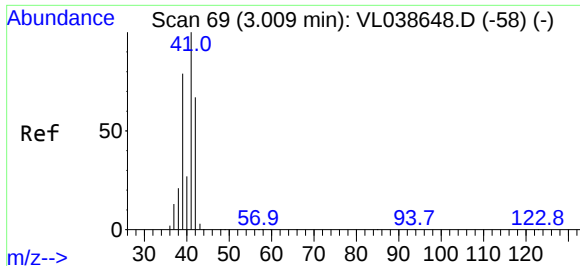
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#4
Chloromethane
Concen: 0.507 ppbv
RT: 3.141 min Scan# 110
Delta R.T. 0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

Tgt Ion: 50 Resp: 23552
Ion Ratio Lower Upper
50 100
52 33.1 25.5 38.3





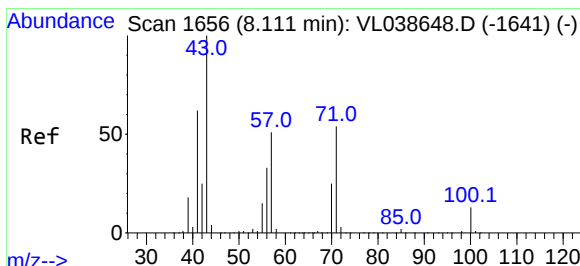
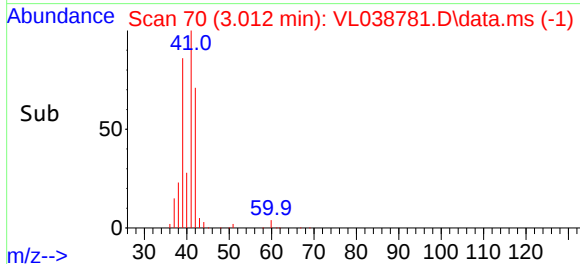
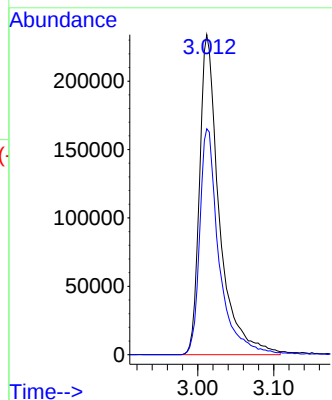
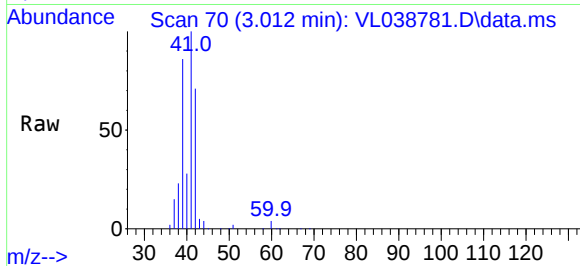
#9
 Propene
 Concen: 10.343 ppbv
 RT: 3.012 min Scan# 70
 Delta R.T. 0.003 min
 Lab File: VL038781.D
 Acq: 28 Mar 2022 21:41

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 41 Resp: 422619
 Ion Ratio Lower Upper
 41 100
 42 69.6 56.2 84.4

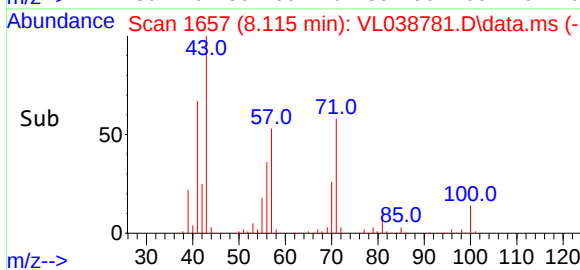
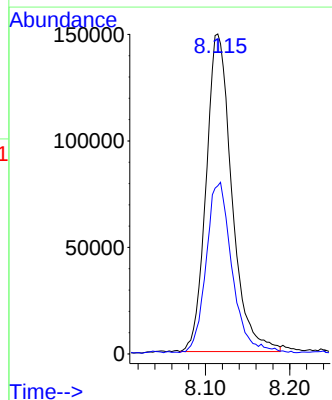
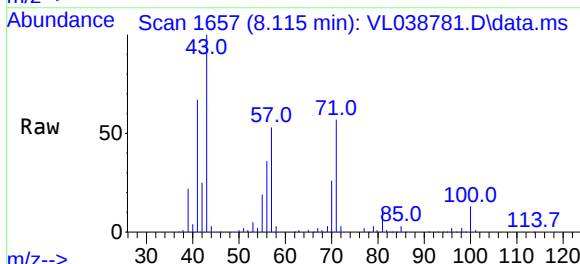
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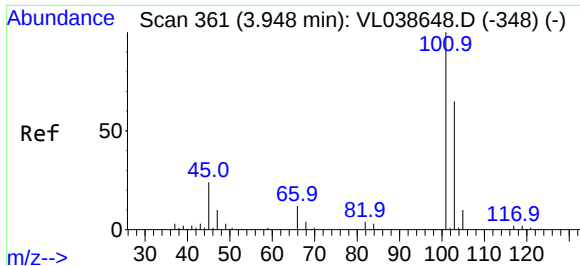
Reviewed By :Semsettin Yesilyurt 03/29/2022
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#10
 Heptane
 Concen: 3.246 ppbv
 RT: 8.115 min Scan# 1657
 Delta R.T. 0.003 min
 Lab File: VL038781.D
 Acq: 28 Mar 2022 21:41

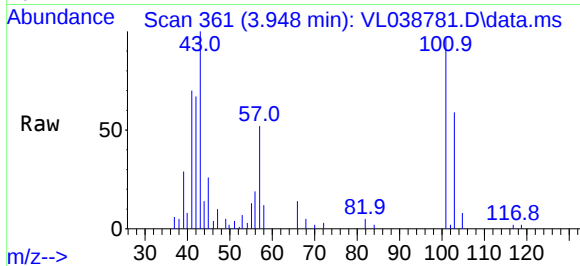
Tgt Ion: 43 Resp: 317035
 Ion Ratio Lower Upper
 43 100
 57 54.0 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.272 ppbv
RT: 3.948 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

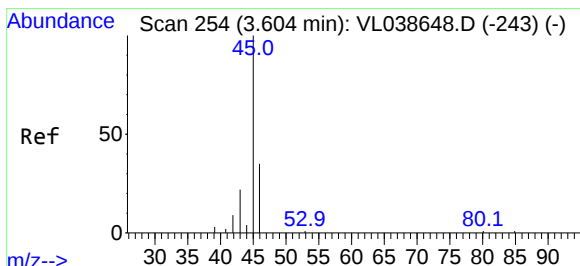
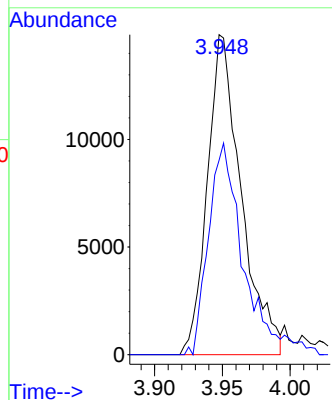
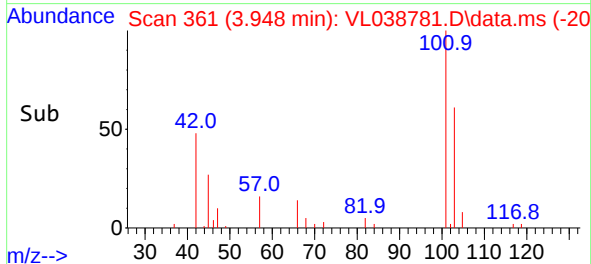
Instrument :
MSVOA_L
ClientSampleId :
V-8



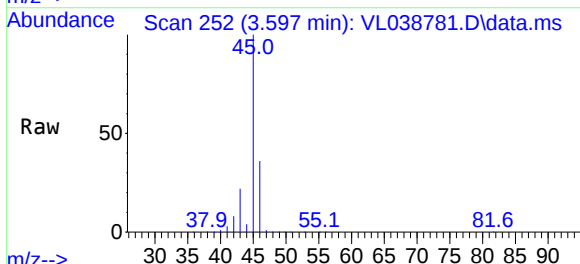
Tgt Ion:101 Resp: 25840
Ion Ratio Lower Upper
101 100
103 60.7 51.9 77.9

Manual Integrations
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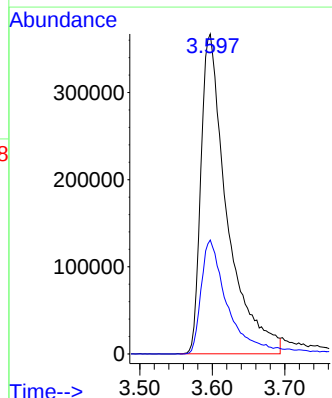
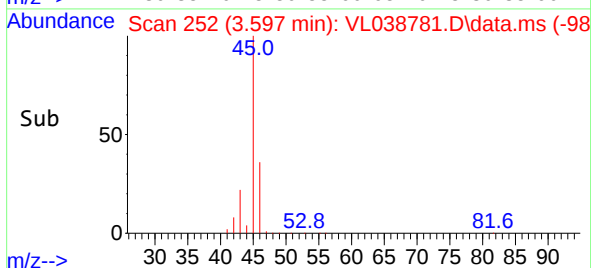
Reviewed By :Semsettin Yesilyurt 03/29/2022
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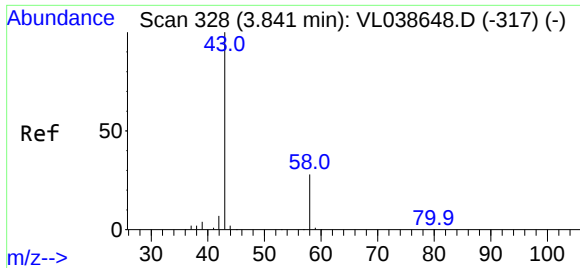


#13
Ethanol
Concen: 204.005 ppbv
RT: 3.597 min Scan# 252
Delta R.T. -0.006 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



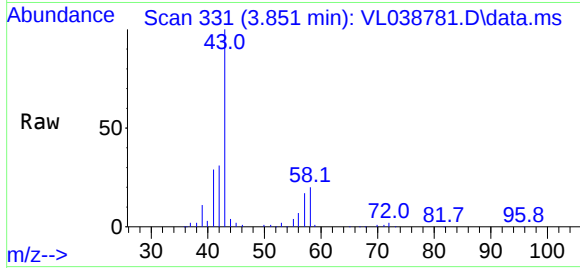
Tgt Ion: 45 Resp: 919524
Ion Ratio Lower Upper
45 100
46 38.0 15.1 60.5





#15
Acetone
Concen: 1.573 ppbv m
RT: 3.851 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

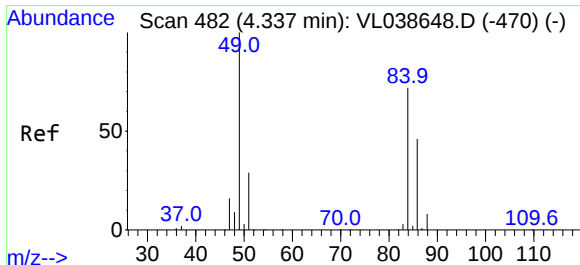
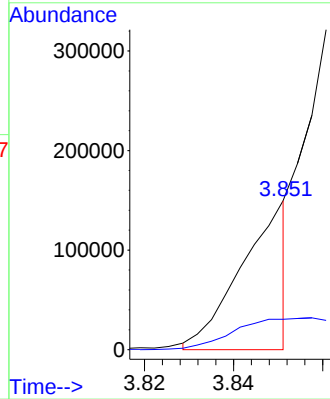
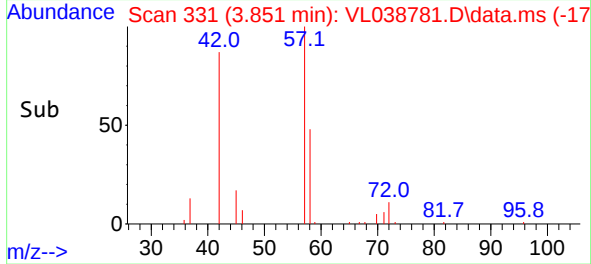
Instrument :
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V-8



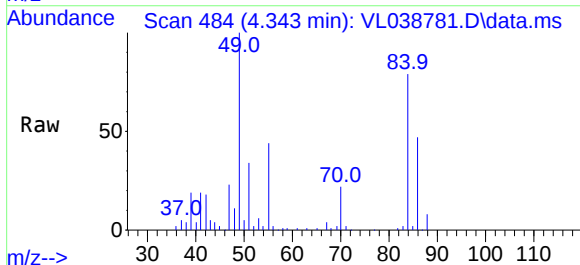
Tgt Ion: 43 Resp: 108779
Ion Ratio Lower Upper
43 100
58 98.2 23.3 34.9

Manual Integrations
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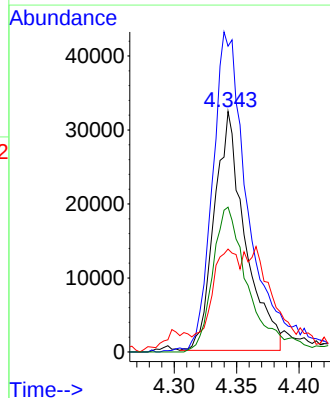
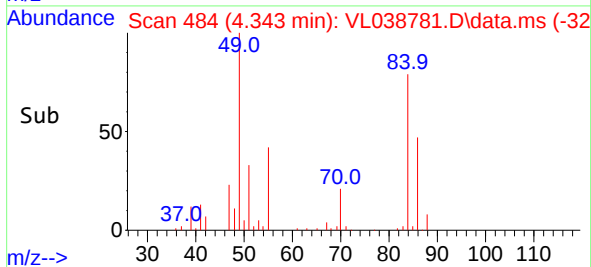
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

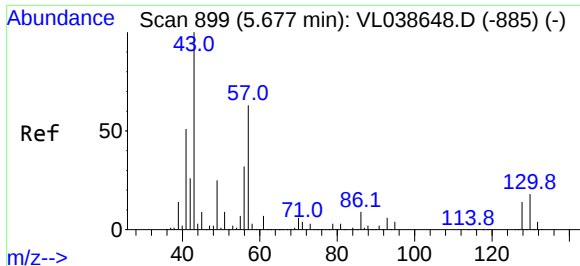


#20
Methylene Chloride
Concen: 1.905 ppbv
RT: 4.343 min Scan# 484
Delta R.T. 0.006 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



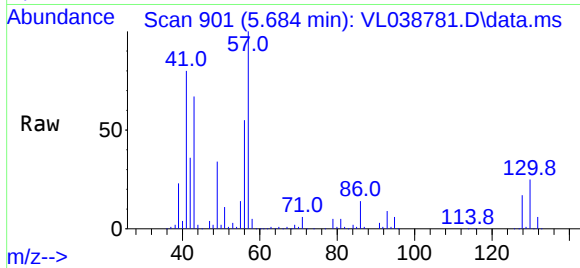
Tgt Ion: 84 Resp: 55476
Ion Ratio Lower Upper
84 100
49 126.4 111.2 166.8
51 36.2 32.8 49.2
86 60.7 51.4 77.0





#26
Hexane
Concen: 8.906 ppbv
RT: 5.684 min Scan# 901
Delta R.T. 0.006 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

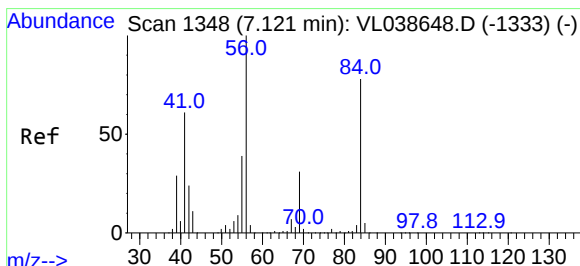
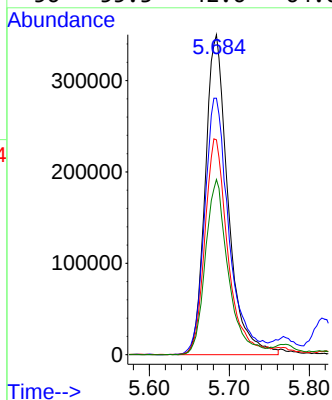
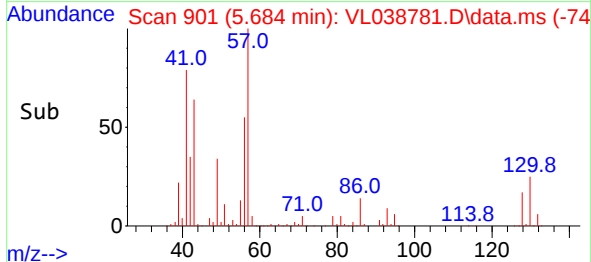
Instrument :
MSVOA_L
ClientSampleId :
V-8



Tgt Ion: 57 Resp: 694030
Ion Ratio Lower Upper
57 100
41 86.5 67.0 100.4
43 71.7 184.2 276.2
56 55.3 42.6 64.0

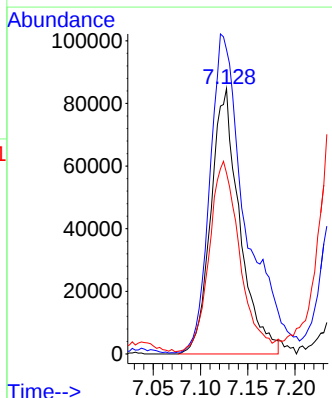
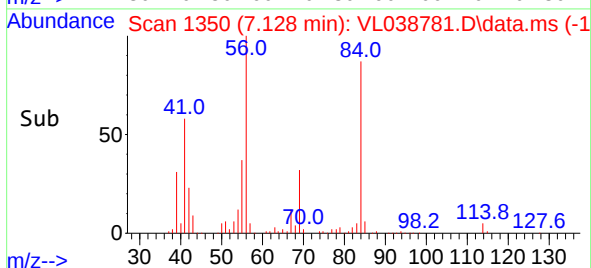
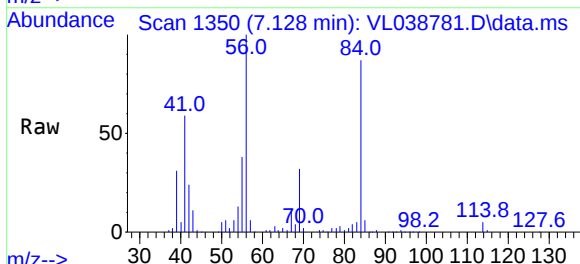
Manual Integrations
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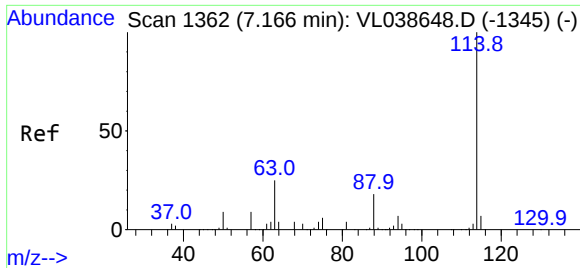
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#30
Cyclohexane
Concen: 2.653 ppbv
RT: 7.128 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

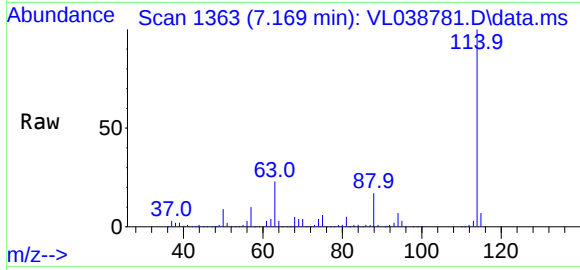
Tgt Ion: 84 Resp: 179748
Ion Ratio Lower Upper
84 100
56 148.2 108.2 162.4
41 73.7 61.8 92.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.169 min Scan# 114
Delta R.T. 0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

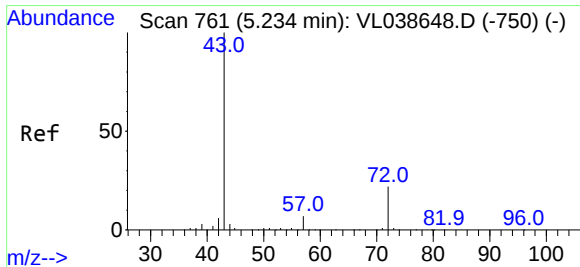
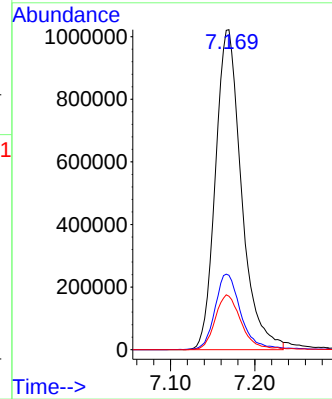
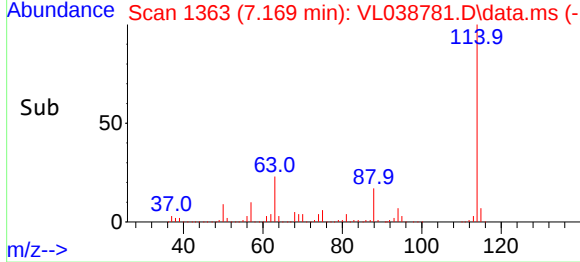
Instrument :
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ClientSampleId :
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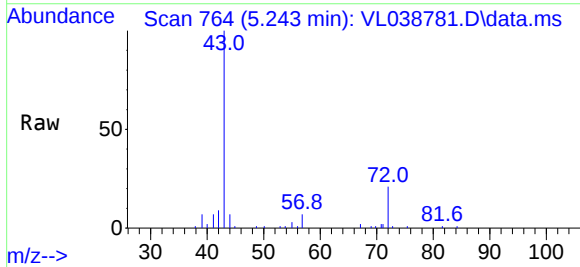
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Ion Ratio Lower Upper
114 100
63 23.8 19.4 29.0
88 17.4 13.9 20.9

Manual Integrations
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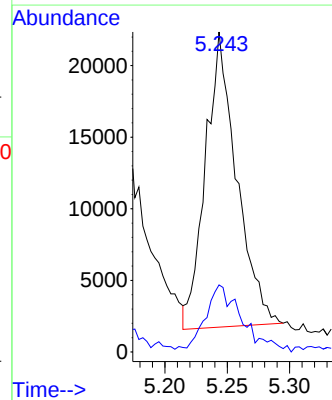
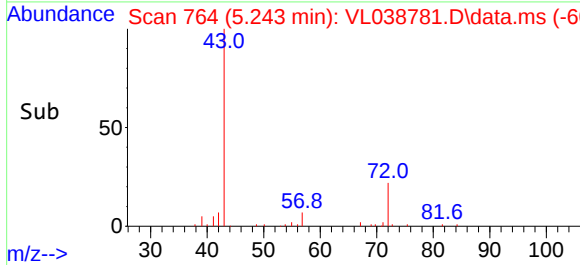
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

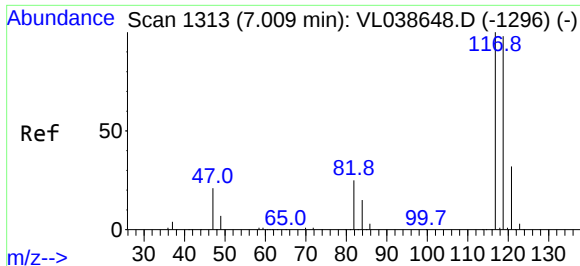


#34
2-Butanone
Concen: 0.413 ppbv
RT: 5.243 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



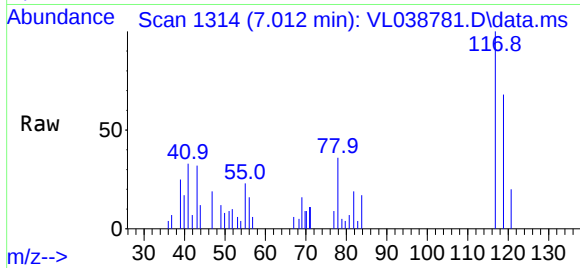
Tgt Ion: 43 Resp: 35862
Ion Ratio Lower Upper
43 100
72 27.2 17.8 26.8#





#35
Carbon Tetrachloride
Concen: 0.046 ppbv m
RT: 7.012 min Scan# 117
Delta R.T. 0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

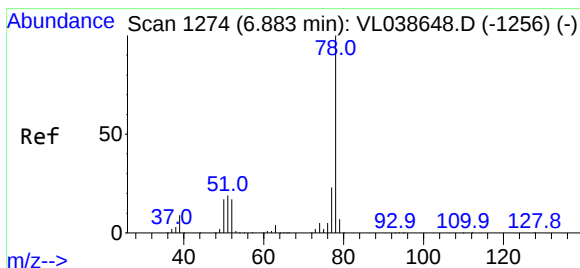
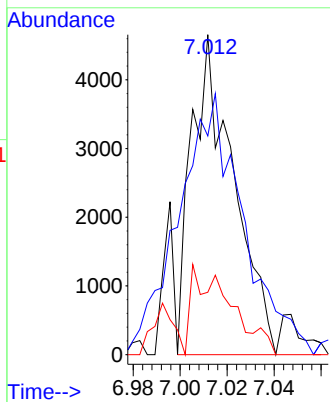
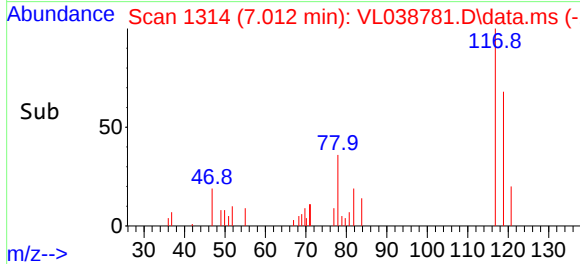
Instrument :
MSVOA_L
ClientSampleId :
V-8



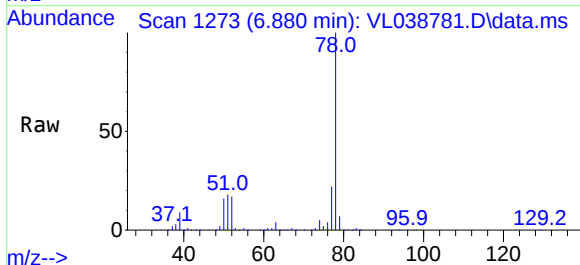
Tgt Ion:117 Resp: 5790
Ion Ratio Lower Upper
117 100
119 68.4 78.1 117.1
121 19.5 25.8 38.6

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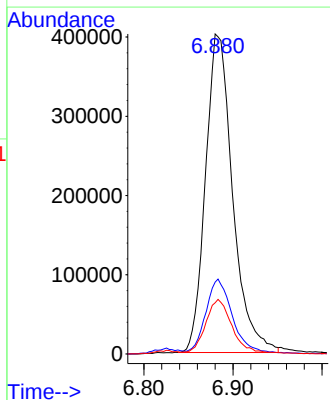
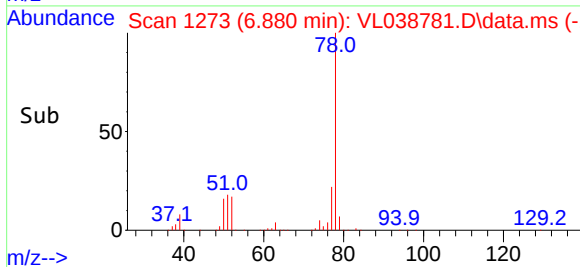
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

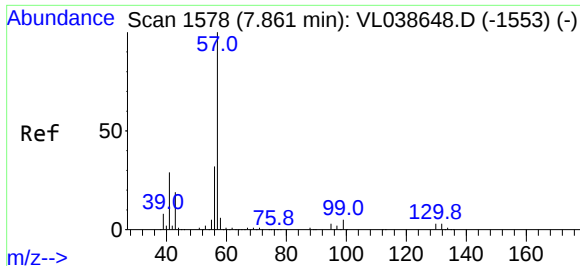


#36
Benzene
Concen: 5.035 ppbv
RT: 6.880 min Scan# 1273
Delta R.T. -0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



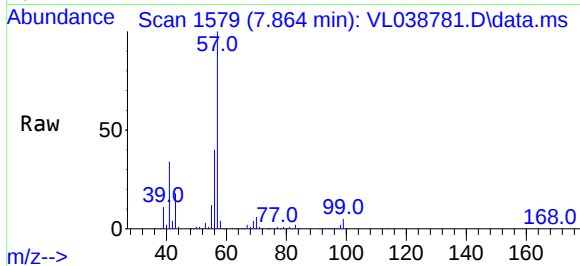
Tgt Ion: 78 Resp: 851680
Ion Ratio Lower Upper
78 100
77 22.2 18.1 27.1
50 15.6 13.6 20.4





#44
2,2,4-Trimethylpentane
Concen: 3.998 ppbv
RT: 7.864 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

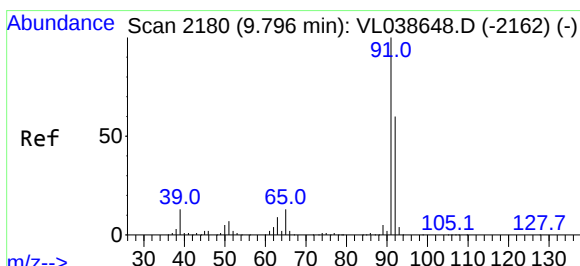
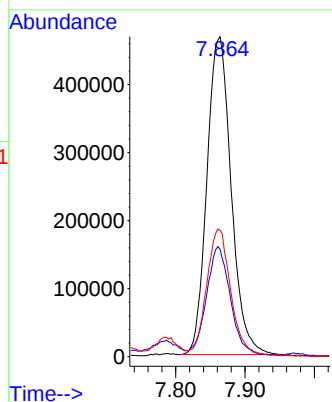
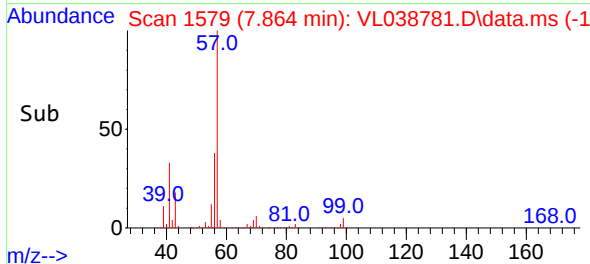
Instrument :
MSVOA_L
ClientSampleId :
V-8



Tgt Ion: 57 Resp: 1135628
Ion Ratio Lower Upper
57 100
41 34.6 23.0 34.4
56 40.1 25.3 37.9

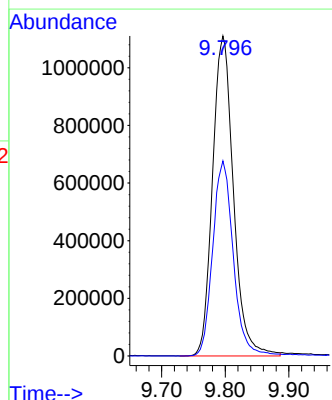
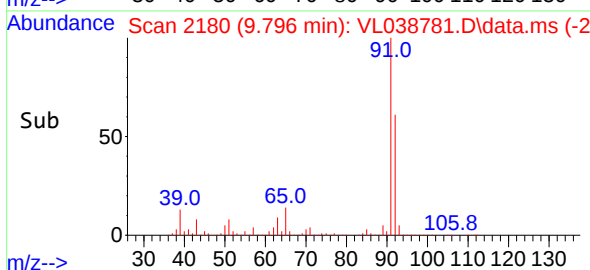
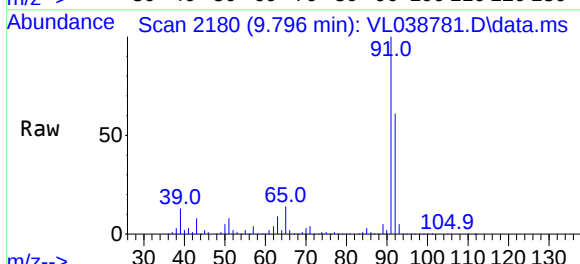
Manual Integrations
APPROVED

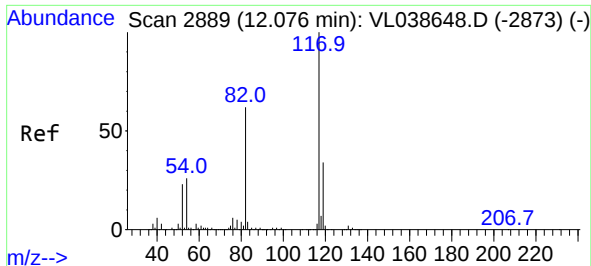
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#53
Toluene
Concen: 13.946 ppbv
RT: 9.796 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

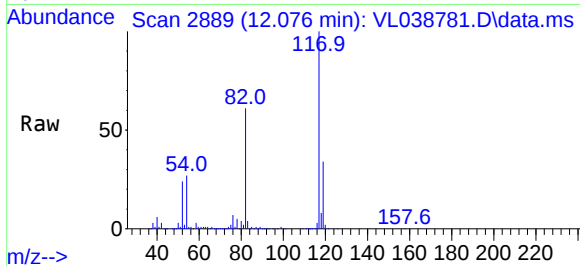
Tgt Ion: 91 Resp: 2534853
Ion Ratio Lower Upper
91 100
92 60.8 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.076 min Scan# 2889
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

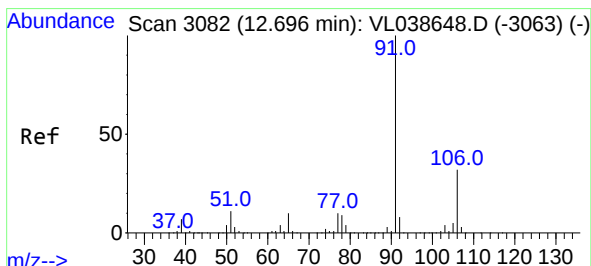
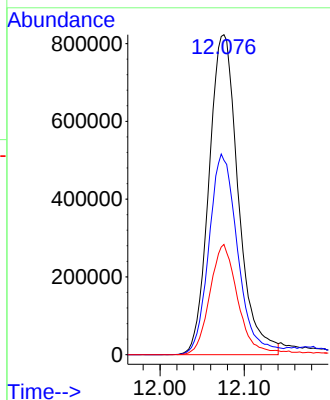
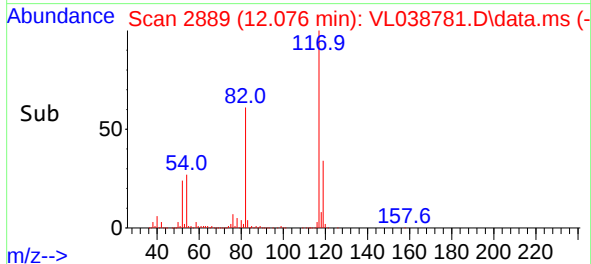
Instrument :
MSVOA_L
ClientSampleId :
V-8



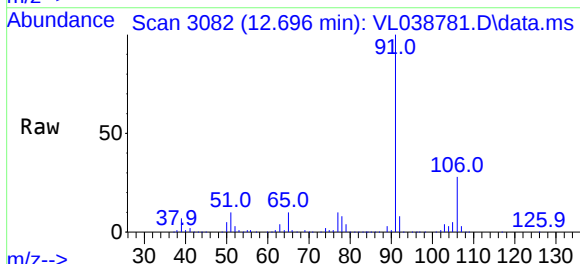
Tgt Ion: 117 Resp: 198720
Ion Ratio Lower Upper
117 100
82 62.2 51.6 77.4
119 35.0 26.9 40.3

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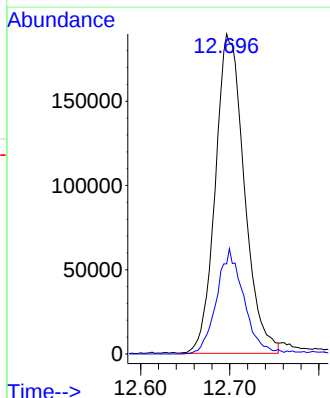
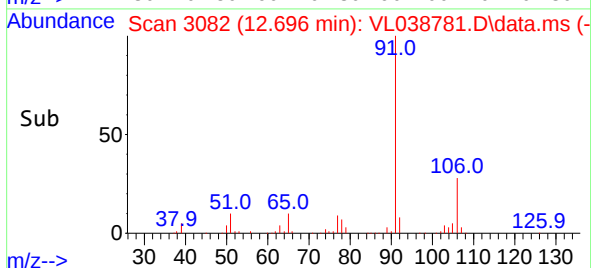
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

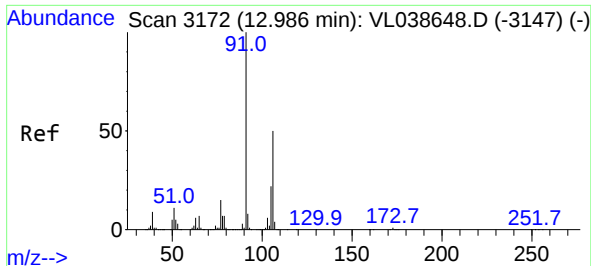


#58
Ethyl Benzene
Concen: 1.839 ppbv
RT: 12.696 min Scan# 3082
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



Tgt Ion: 91 Resp: 427343
Ion Ratio Lower Upper
91 100
106 28.3 25.4 38.0





#59

m/p-Xylene

Concen: 4.780 ppbv

RT: 12.954 min Scan# 3172

Delta R.T. -0.032 min

Lab File: VL038781.D

Acq: 28 Mar 2022 21:41

Instrument :

MSVOA_L

ClientSampleId :

V-8

Tgt Ion: 91 Resp: 971324

Ion Ratio Lower Upper

91 100

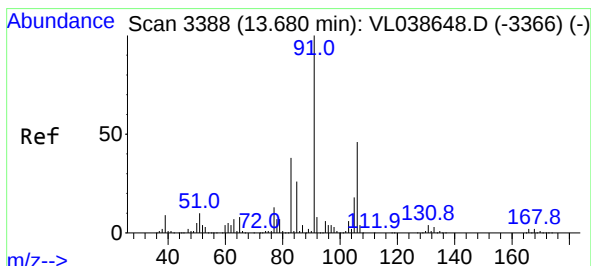
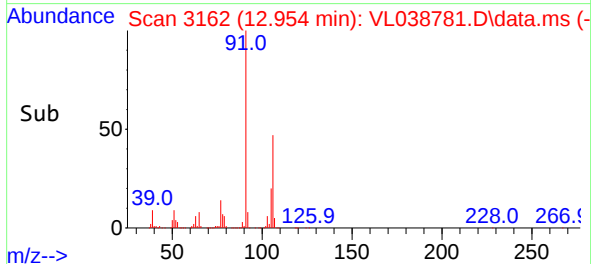
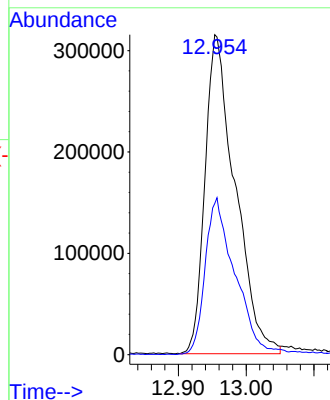
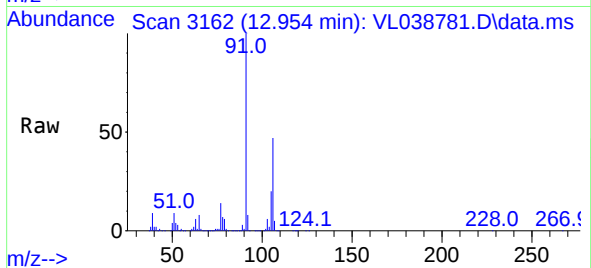
106 49.4 37.2 55.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/29/2022

Supervised By :Mahesh Dadoda 03/29/2022



#60

o-Xylene

Concen: 1.475 ppbv

RT: 13.680 min Scan# 3388

Delta R.T. -0.000 min

Lab File: VL038781.D

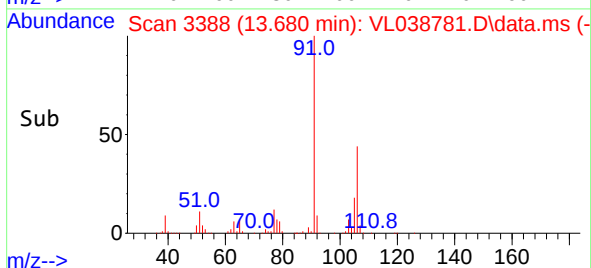
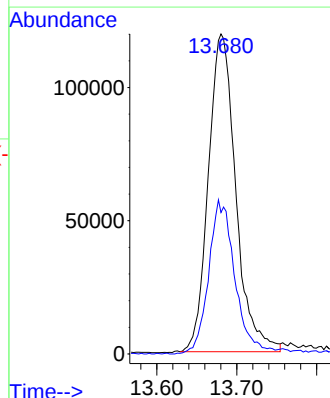
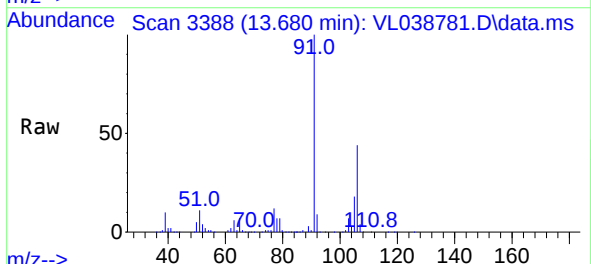
Acq: 28 Mar 2022 21:41

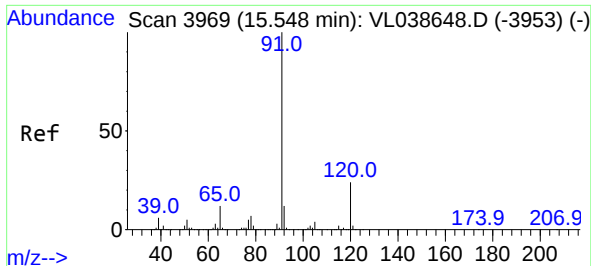
Tgt Ion: 91 Resp: 284501

Ion Ratio Lower Upper

91 100

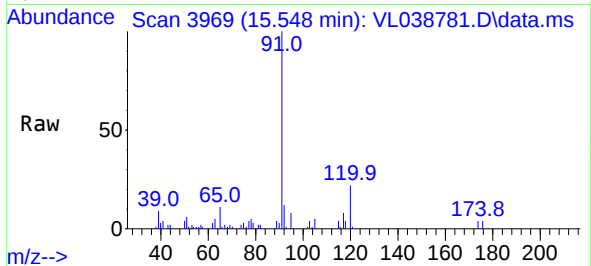
106 48.4 23.5 70.5





#64
n-propylbenzene
Concen: 0.104 ppbv m
RT: 15.548 min Scan# 3969
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

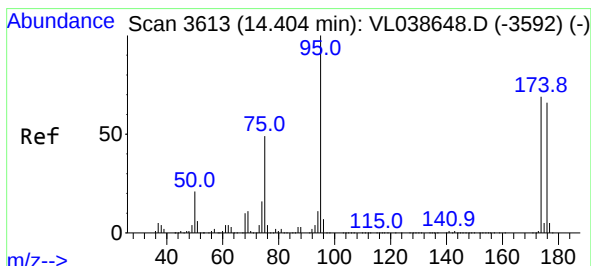
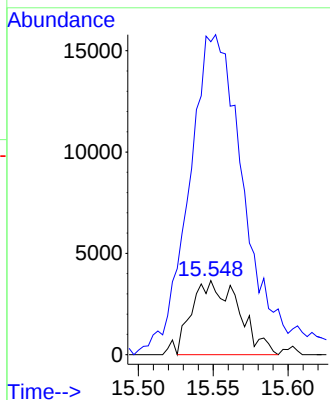
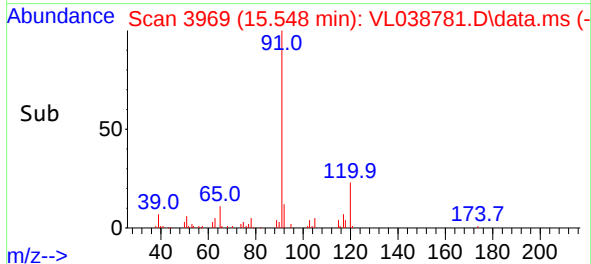
Instrument :
MSVOA_L
ClientSampleId :
V-8



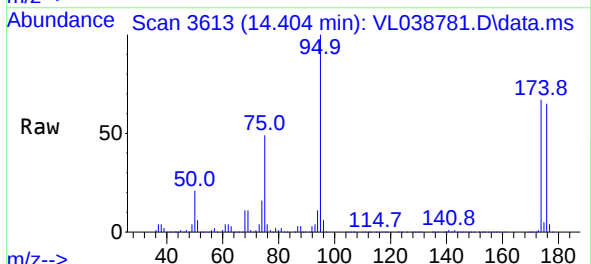
Tgt Ion:120 Resp: 7940
Ion Ratio Lower Upper
120 100
91 524.6 368.0 552.0

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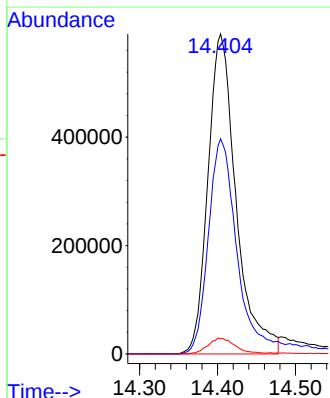
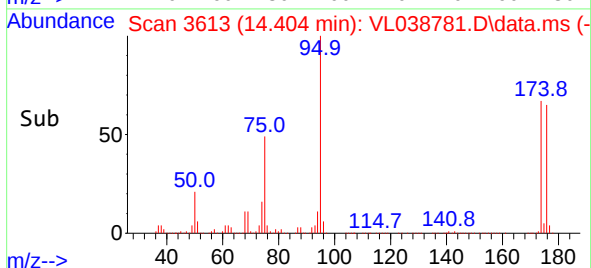
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

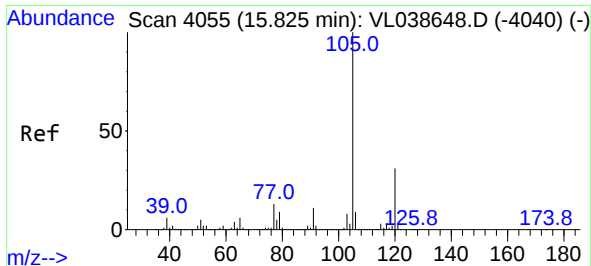


#68
1-Bromo-4-Fluorobenzene
Concen: 9.727 ppbv
RT: 14.404 min Scan# 3613
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



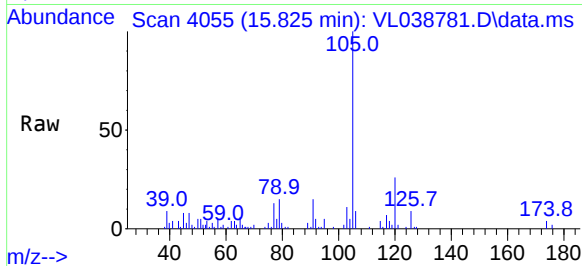
Tgt Ion: 95 Resp: 1482037
Ion Ratio Lower Upper
95 100
174 73.5 56.1 84.1
175 5.1 4.2 6.2





#72
4-Ethyltoluene
Concen: 0.192 ppbv m
RT: 15.825 min Scan# 4055
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41

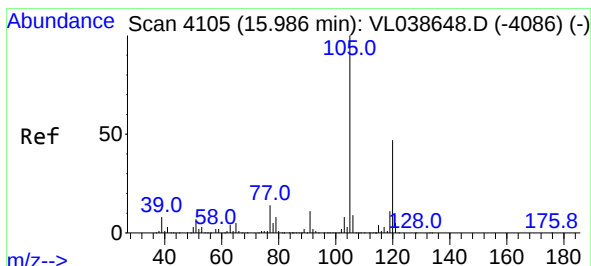
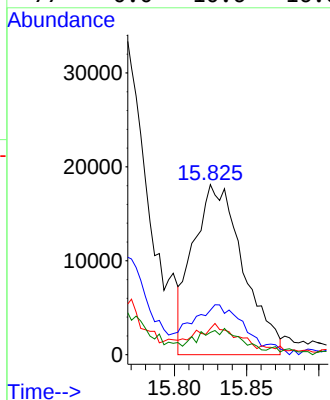
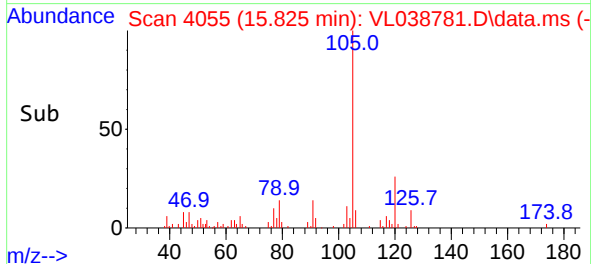
Instrument :
MSVOA_L
ClientSampleId :
V-8



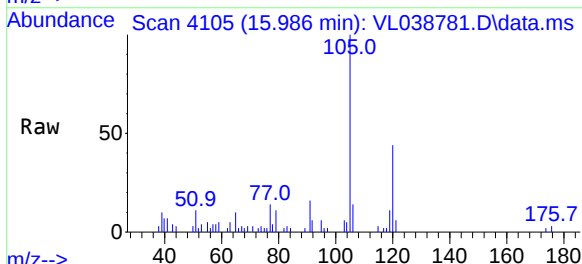
Tgt Ion:105 Resp: 43658
Ion Ratio Lower Upper
105 100
120 35.0 24.9 37.3
91 14.2 9.8 14.6
77 0.0 10.6 16.0#

Manual Integrations
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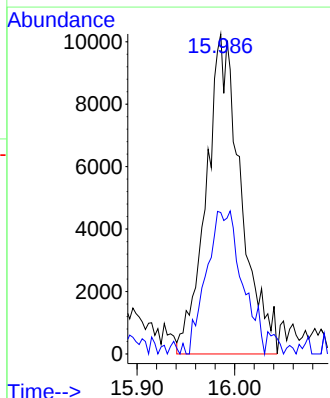
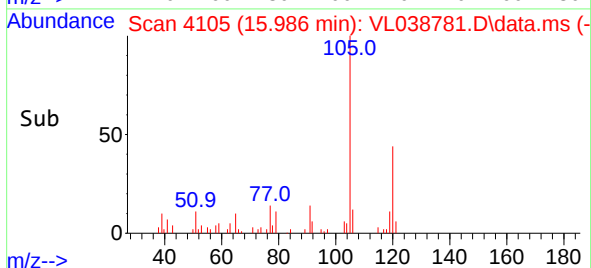
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

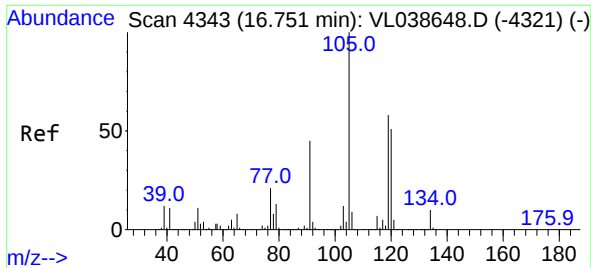


#73
1,3,5-Trimethylbenzene
Concen: 0.122 ppbv m
RT: 15.986 min Scan# 4105
Delta R.T. -0.000 min
Lab File: VL038781.D
Acq: 28 Mar 2022 21:41



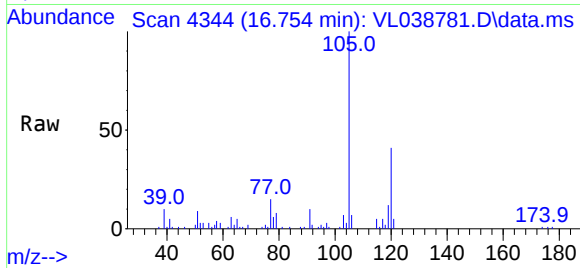
Tgt Ion:105 Resp: 25417
Ion Ratio Lower Upper
105 100
120 44.2 37.6 56.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.254 ppbv
 RT: 16.754 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL038781.D
 Acq: 28 Mar 2022 21:41

Instrument :
 MSVOA_L
 ClientSampleId :
 V-8



Tgt Ion:	105	Resp:	5750
Ion	Ratio	Lower	Upper
105	100		
120	47.0	40.5	60.7
91	10.1	35.9	53.9
77	14.8	16.6	25.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022
 Supervised By :Mahesh Dadoda 03/29/2022

