

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
 Data File : VL039452.D
 Acq On : 12 Jul 2022 17:18
 Operator : SY/AP
 Sample : N3660-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/13/2022
 Supervised By : Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 01:36:41 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 13 11:29:47 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.687	49	1490136	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	7.195	114	4256373	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.105	117	3859866	10.000	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.436 95 2873217 10.034 ppbv 0.05
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

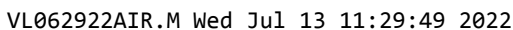
Target Compounds

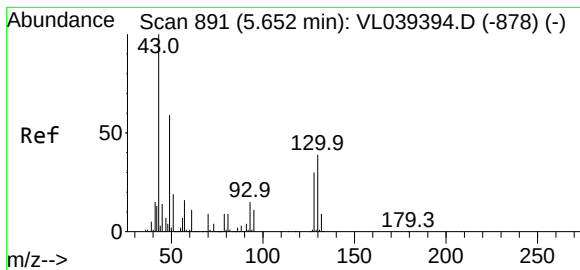
					Qvalue	
2) Dichlorodifluoromethane	3.067	85	29797m	0.139	ppbv	
3) Chlorodifluoromethane	2.980	51	172556	0.913	ppbv #	63
4) Chloromethane	3.160	50	14609m	0.141	ppbv	
9) Propene	3.028	41	31645m	0.371	ppbv	
10) Heptane	8.140	43	160083m	0.801	ppbv	
11) Trichlorofluoromethane	3.967	101	23534	0.098	ppbv	94
13) Ethanol	3.613	45	2664355	537.889	ppbv	74
15) Acetone	3.864	43	873625	4.956	ppbv	98
17) tert-Butyl alcohol	4.311	59	31563m	0.211	ppbv	
19) Isopropyl Alcohol	3.977	45	6877196	73.134	ppbv #	91
20) Methylene Chloride	4.366	84	552400	7.861	ppbv	98
25) Ethyl Acetate	5.687	43	15427078	42.677	ppbv #	83
29) Chloroform	5.774	83	85145	0.336	ppbv	99
30) Cyclohexane	7.147	84	71861m	0.542	ppbv	
36) Benzene	6.912	78	225722	0.685	ppbv	94
44) 2,2,4-Trimethylpentane	7.886	57	58085	0.104	ppbv #	71
52) Tetrachloroethene	11.243	164	147069m	1.109	ppbv	
53) Toluene	9.828	91	900522	2.370	ppbv	100
58) Ethyl Benzene	12.729	91	561911	1.127	ppbv	93
59) m/p-Xylene	12.983	91	2627781	5.980	ppbv	94
60) o-Xylene	13.712	91	1349414	3.243	ppbv	97
65) tert-Butylbenzene	16.783	119	121184m	0.207	ppbv	
72) 4-Ethyltoluene	15.857	105	229977	0.470	ppbv	97
73) 1,3,5-Trimethylbenzene	16.018	105	329602	0.734	ppbv	100
74) 1,2,4-Trimethylbenzene	16.780	105	1027063	2.066	ppbv #	70
79) Naphthalene	22.214	128	61369m	0.179	ppbv	

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

Manual Integrations

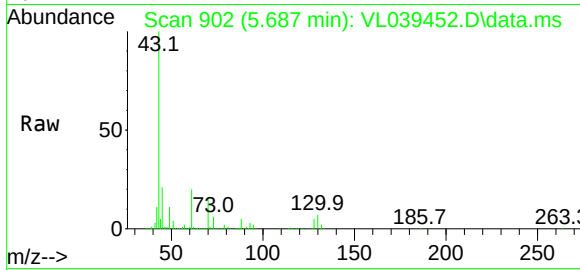
Quant Time: Jul 13 01:36:41 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.687 min Scan# 90
Delta R.T. 0.035 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

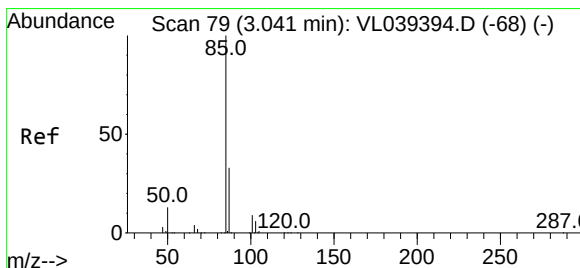
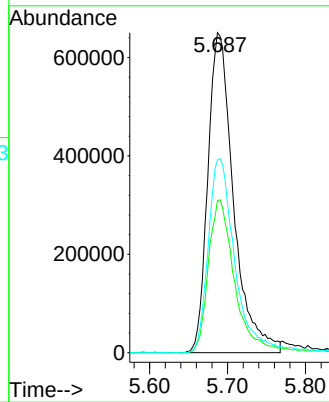
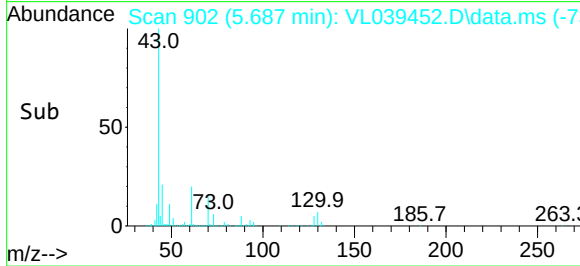
Instrument :
MSVOA_L
ClientSampleId :
SG-5



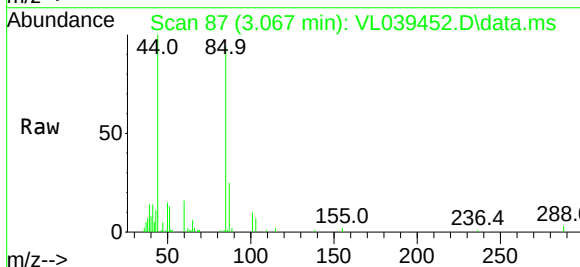
Tgt Ion: 49 Resp: 1490130
Ion Ratio Lower Upper
49 100
128 49.4 26.7 80.0
130 63.7 34.3 102.8

Manual Integrations
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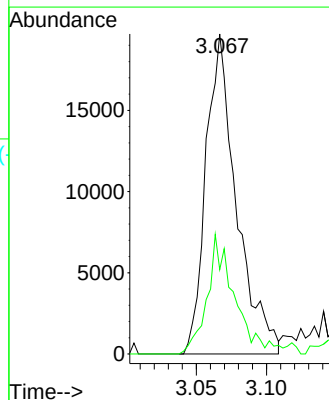
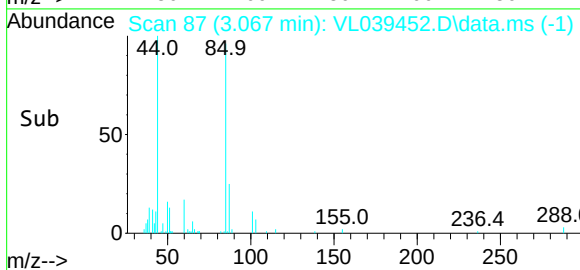
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

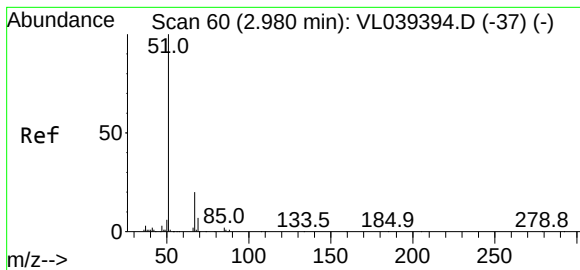


#2
Dichlorodifluoromethane
Concen: 0.139 ppbv m
RT: 3.067 min Scan# 87
Delta R.T. 0.026 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



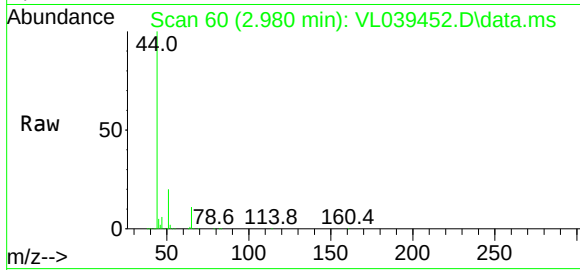
Tgt Ion: 85 Resp: 29797
Ion Ratio Lower Upper
85 100
87 26.3 26.7 40.1#





#3
Chlorodifluoromethane
Concen: 0.913 ppbv
RT: 2.980 min Scan# 60
Delta R.T. 0.000 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

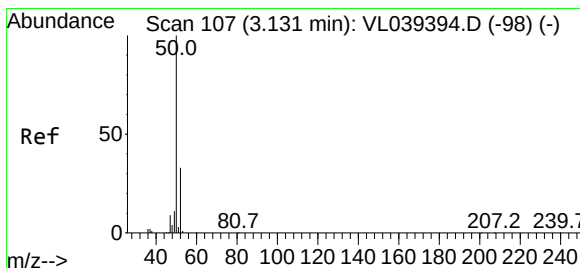
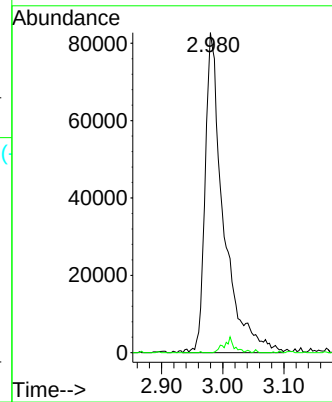
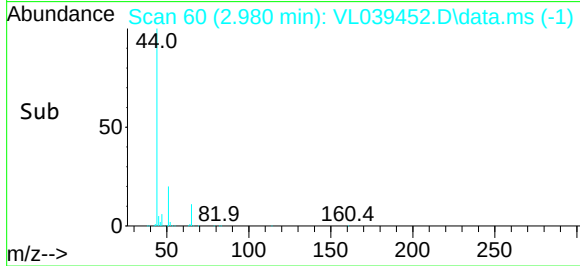
Instrument :
MSVOA_L
ClientSampleId :
SG-5



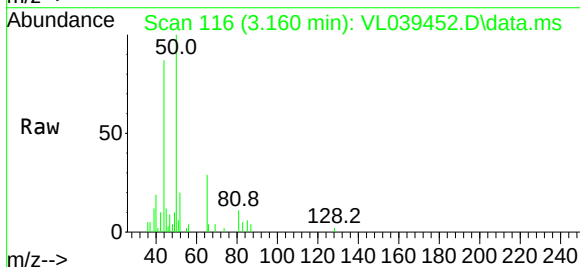
Tgt Ion: 51 Resp: 172550
Ion Ratio Lower Upper
51 100
67 2.9 15.7 23.5

Manual Integrations
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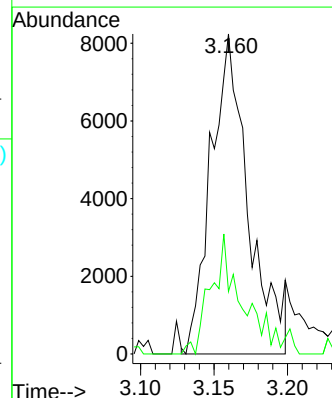
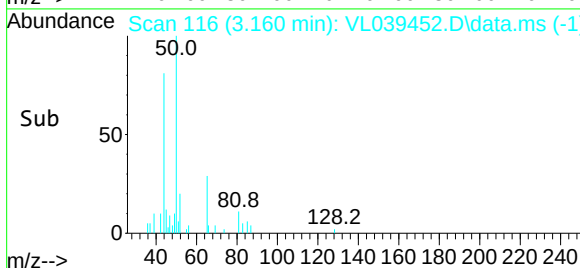
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

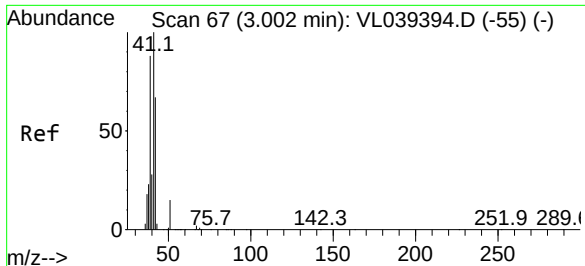


#4
Chloromethane
Concen: 0.141 ppbv m
RT: 3.160 min Scan# 116
Delta R.T. 0.029 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



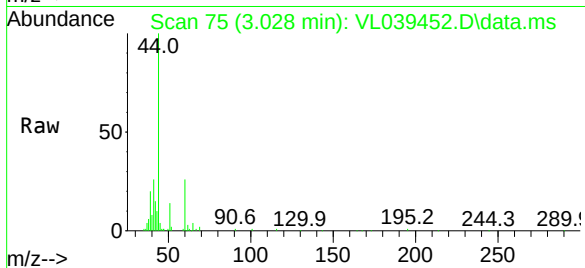
Tgt Ion: 50 Resp: 14609
Ion Ratio Lower Upper
50 100
52 19.5 26.5 39.7





#9
 Propene
 Concen: 0.371 ppbv m
 RT: 3.028 min Scan# 71
 Delta R.T. 0.026 min
 Lab File: VL039452.D
 Acq: 12 Jul 2022 17:18

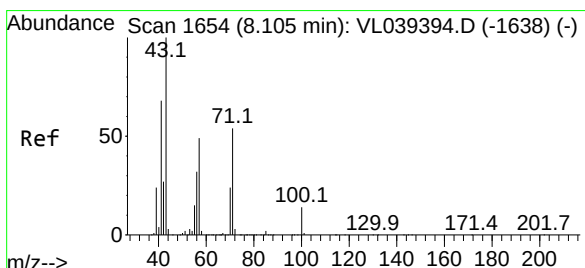
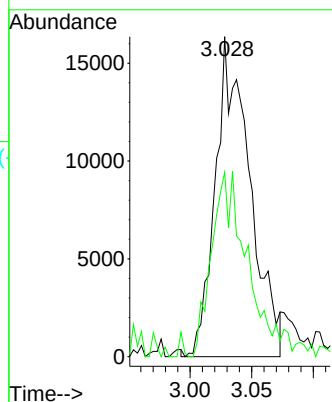
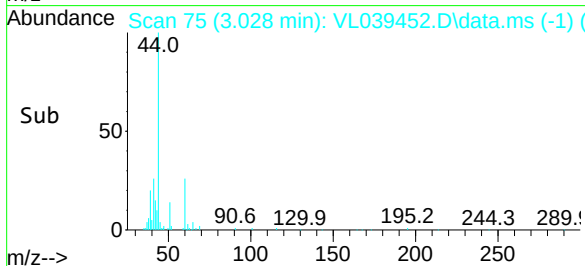
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5



Tgt Ion: 41 Resp: 3164
 Ion Ratio Lower Upper
 41 100
 42 0.0 55.2 82.8

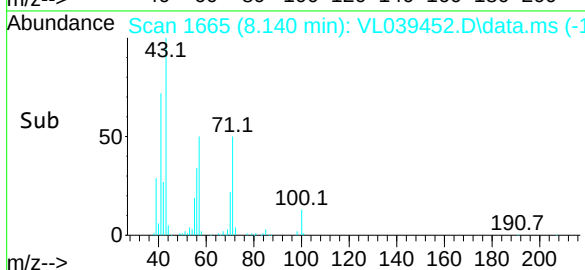
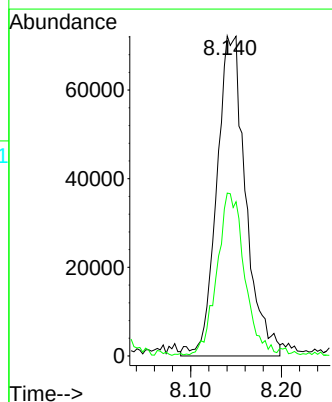
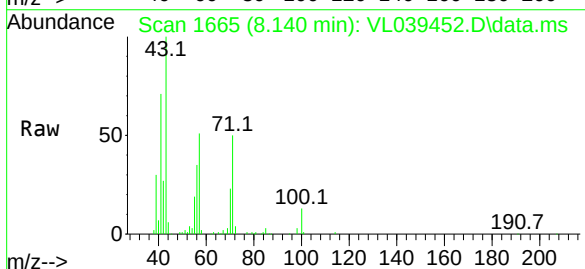
Manual Integrations
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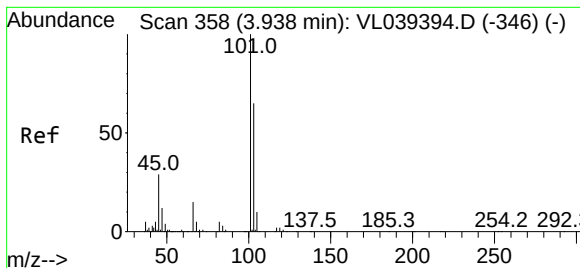
Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022



#10
 Heptane
 Concen: 0.801 ppbv m
 RT: 8.140 min Scan# 1665
 Delta R.T. 0.035 min
 Lab File: VL039452.D
 Acq: 12 Jul 2022 17:18

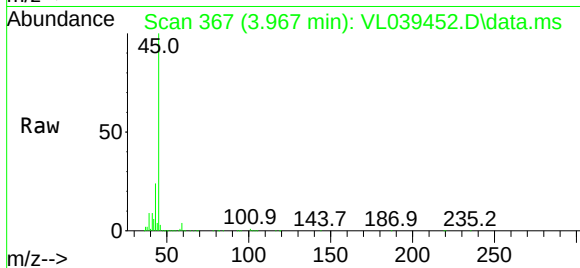
Tgt Ion: 43 Resp: 160083
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.098 ppbv
RT: 3.967 min Scan# 30
Delta R.T. 0.029 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

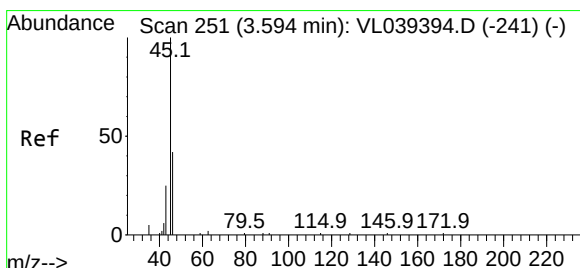
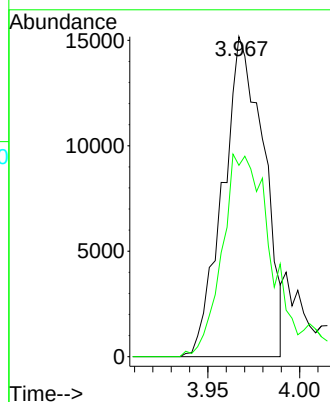
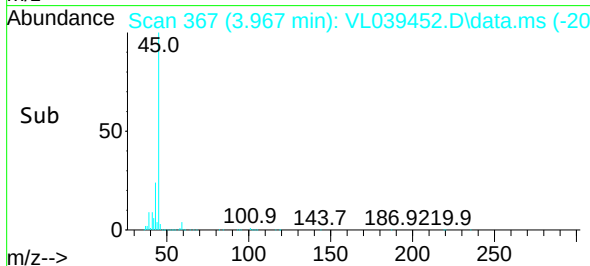
Instrument :
MSVOA_L
ClientSampleId :
SG-5



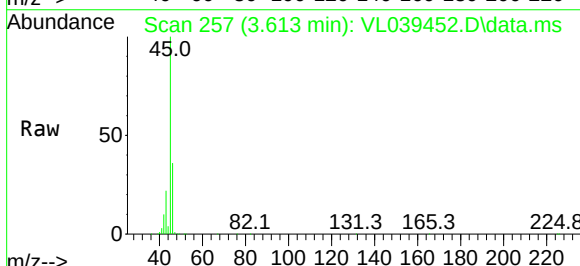
Tgt Ion:101 Resp: 23534
Ion Ratio Lower Upper
101 100
103 59.8 51.8 77.8

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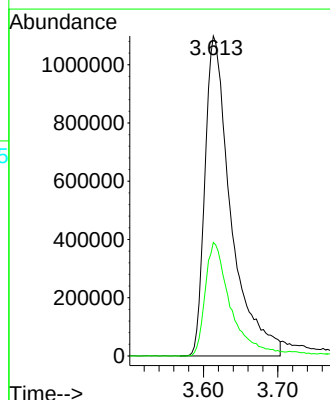
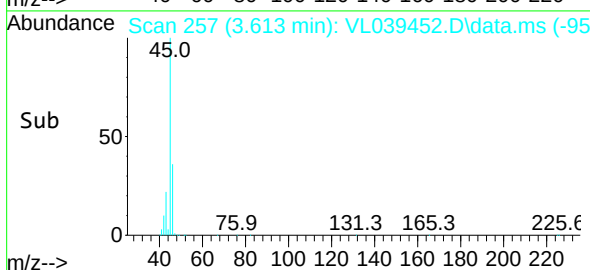
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

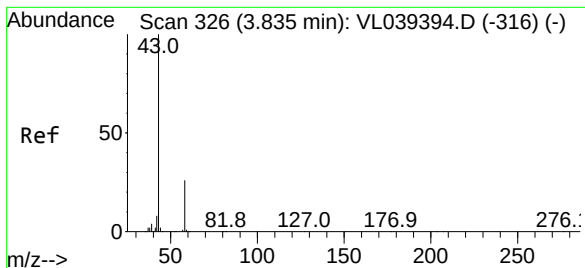


#13
Ethanol
Concen: 537.889 ppbv
RT: 3.613 min Scan# 257
Delta R.T. 0.019 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



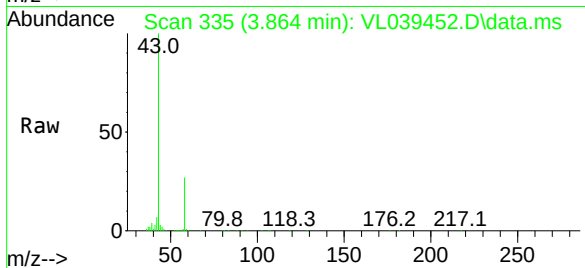
Tgt Ion: 45 Resp: 2664355
Ion Ratio Lower Upper
45 100
46 37.6 22.8 91.2





#15
Acetone
Concen: 4.956 ppbv
RT: 3.864 min Scan# 31
Delta R.T. 0.029 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

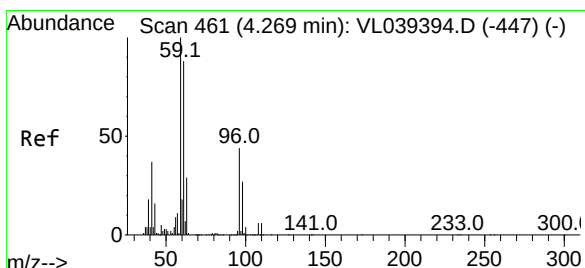
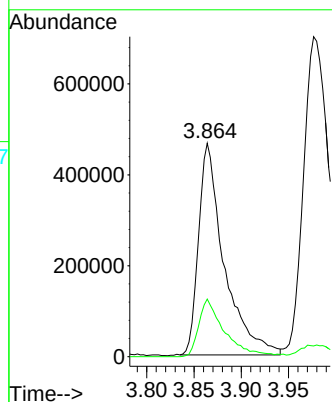
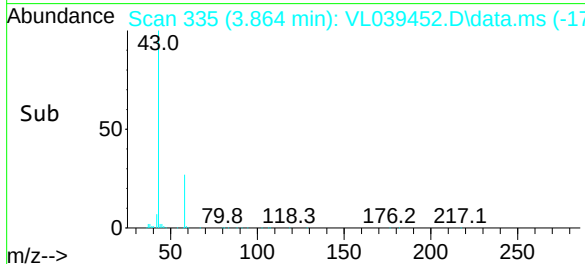
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 43 Resp: 873629
Ion Ratio Lower Upper
43 100
58 27.2 21.0 31.6

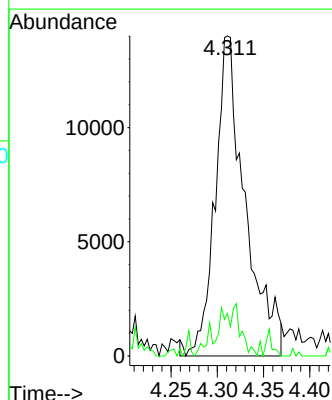
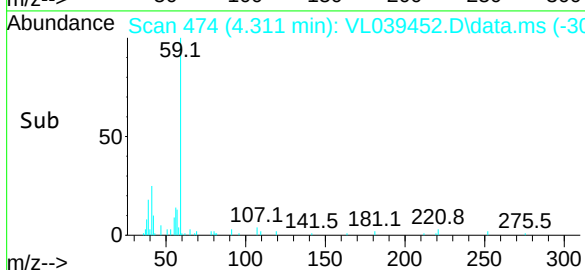
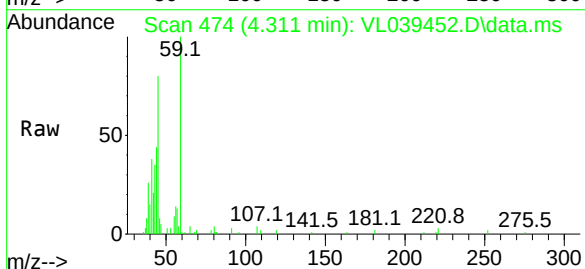
Manual Integrations
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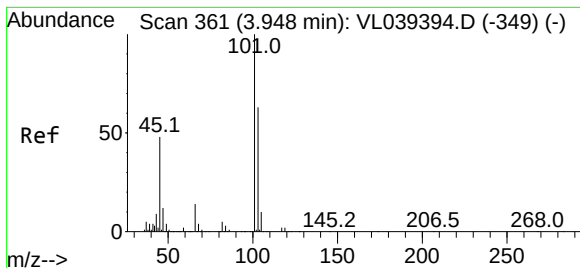
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#17
tert-Butyl alcohol
Concen: 0.211 ppbv m
RT: 4.311 min Scan# 474
Delta R.T. 0.042 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

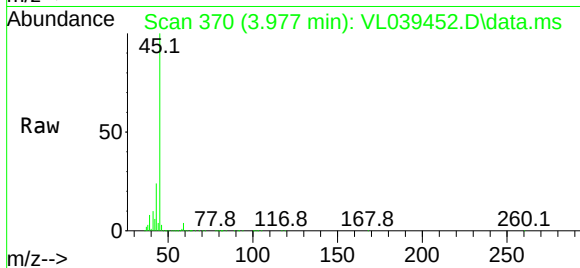
Tgt Ion: 59 Resp: 31563
Ion Ratio Lower Upper
59 100
57 84.9 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 73.134 ppbv
RT: 3.977 min Scan# 31
Delta R.T. 0.029 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

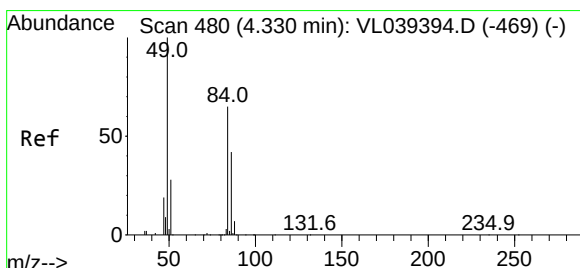
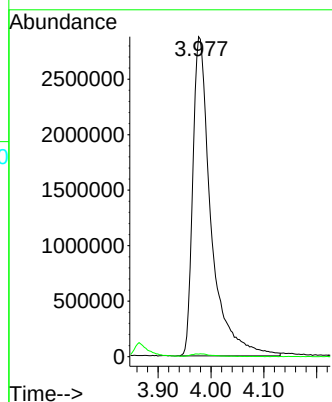
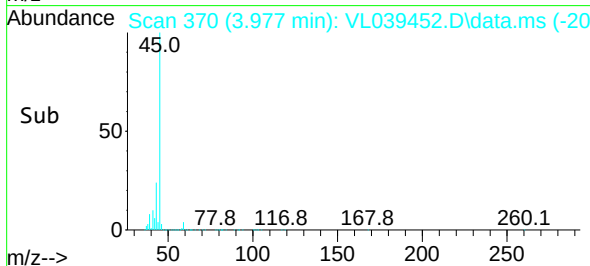
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 45 Resp: 6877190
Ion Ratio Lower Upper
45 100
58 1.0 3.2 4.8

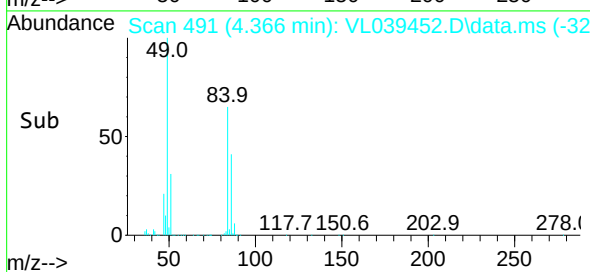
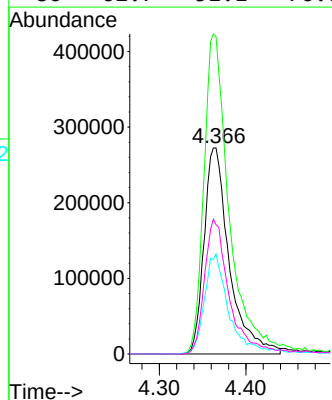
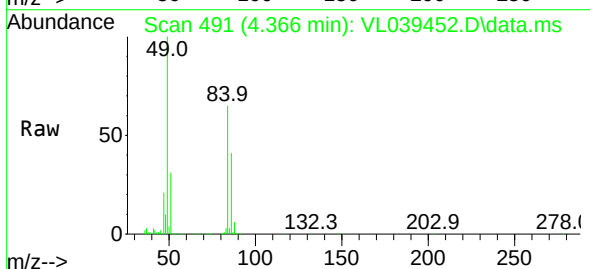
Manual Integrations
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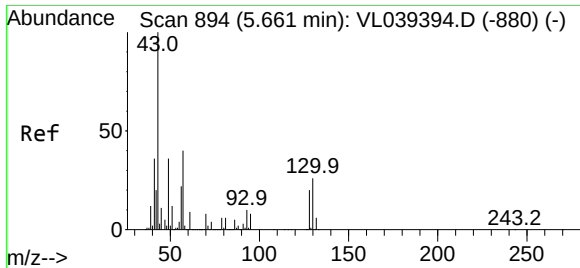
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#20
Methylene Chloride
Concen: 7.861 ppbv
RT: 4.366 min Scan# 491
Delta R.T. 0.035 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

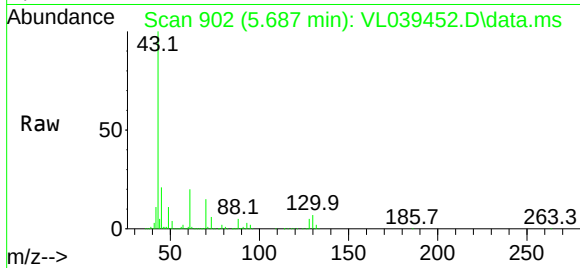
Tgt Ion: 84 Resp: 552400
Ion Ratio Lower Upper
84 100
49 153.7 123.1 184.7
51 48.2 34.4 51.6
86 62.7 51.1 76.7





#25
Ethyl Acetate
Concen: 42.677 ppbv
RT: 5.687 min Scan# 902
Delta R.T. 0.026 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

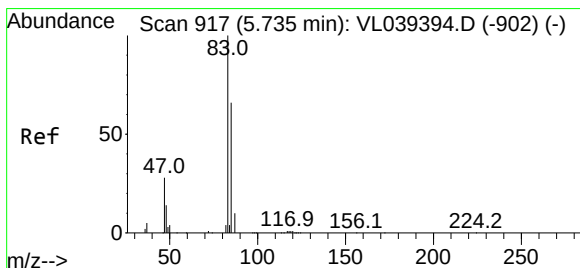
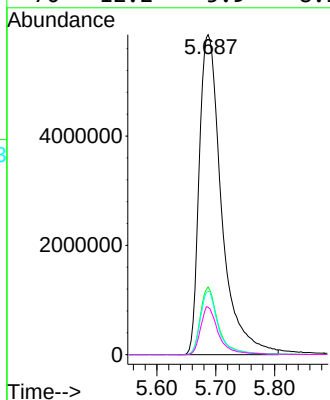
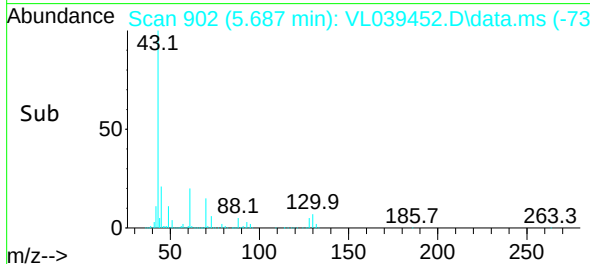
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 43 Resp:15427078
Ion Ratio Lower Upper
43 100
45 17.4 8.2 12.4
61 16.4 8.3 12.5
70 12.2 5.9 8.9

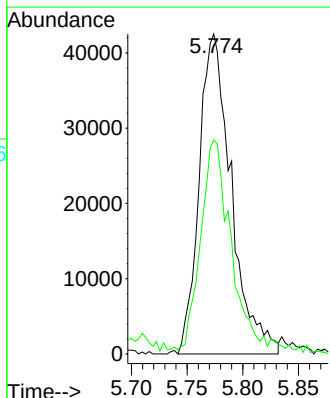
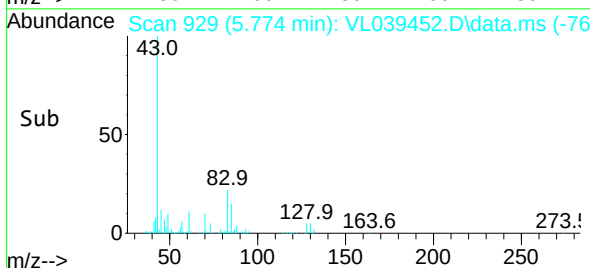
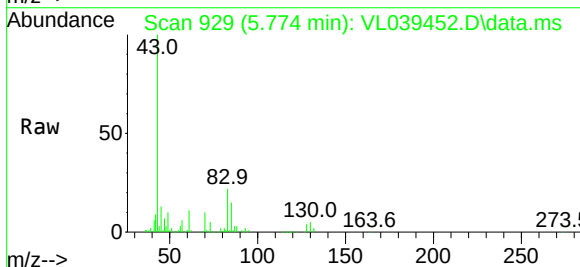
Manual Integrations
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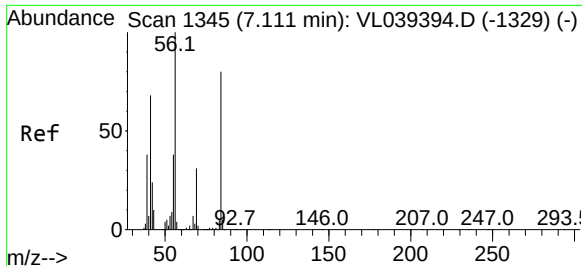
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#29
Chloroform
Concen: 0.336 ppbv
RT: 5.774 min Scan# 929
Delta R.T. 0.039 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

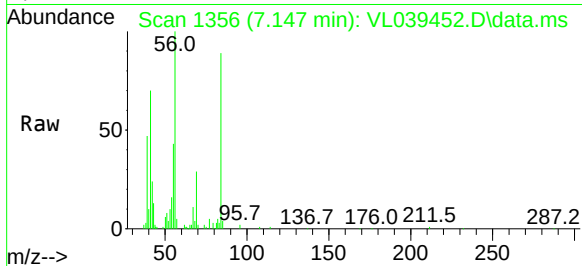
Tgt Ion: 83 Resp: 85145
Ion Ratio Lower Upper
83 100
85 65.4 52.8 79.2





#30
Cyclohexane
Concen: 0.542 ppbv m
RT: 7.147 min Scan# 1371
Delta R.T. 0.035 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

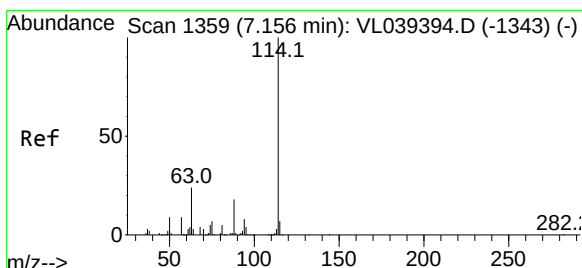
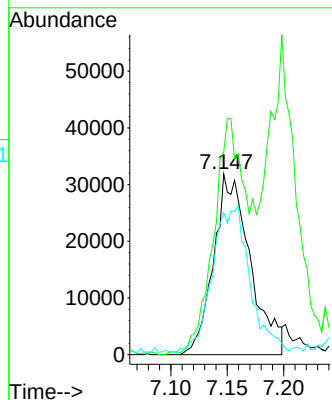
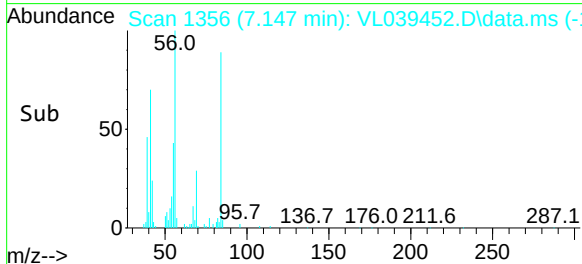
Instrument :
MSVOA_L
ClientSampleId :
SG-5



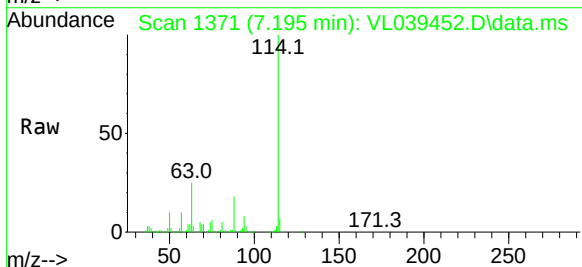
Tgt Ion: 84 Resp: 7186
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5
41 83.8 67.7 101.5

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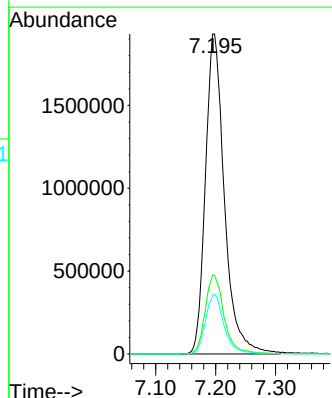
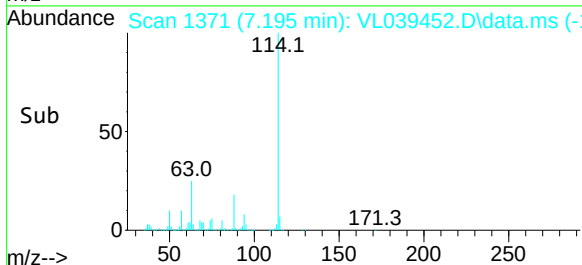
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

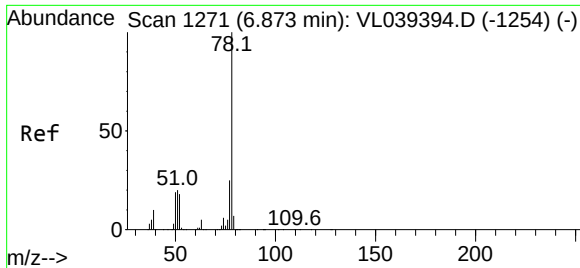


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.195 min Scan# 1371
Delta R.T. 0.039 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



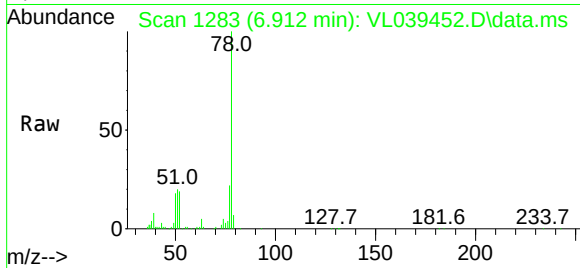
Tgt Ion:114 Resp: 4256373
Ion Ratio Lower Upper
114 100
63 24.7 20.2 30.4
88 18.4 14.5 21.7





#36
Benzene
Concen: 0.685 ppbv
RT: 6.912 min Scan# 11
Delta R.T. 0.039 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

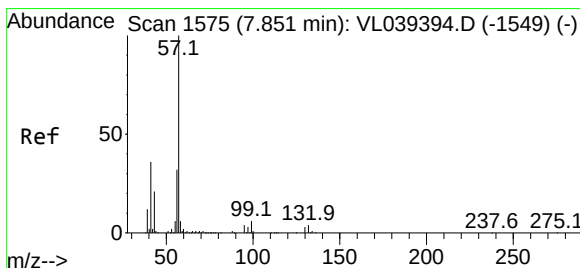
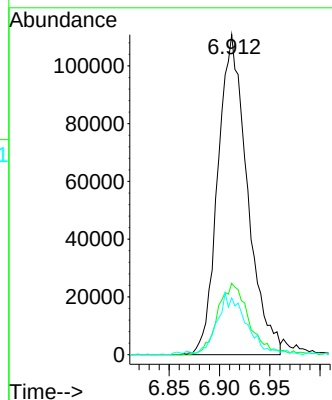
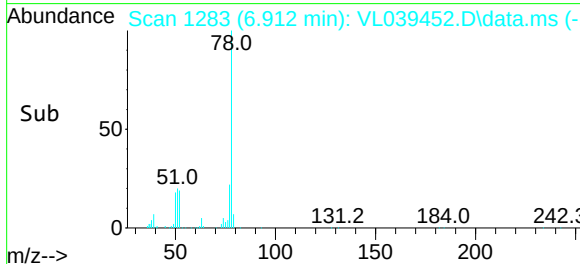
Instrument :
MSVOA_L
ClientSampleId :
SG-5



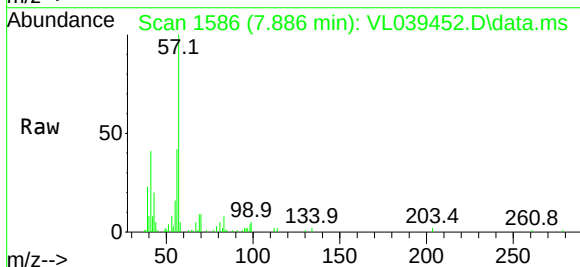
Tgt Ion: 78 Resp: 22572
Ion Ratio Lower Upper
78 100
77 22.3 20.3 30.5
50 17.2 15.5 23.3

Manual Integrations
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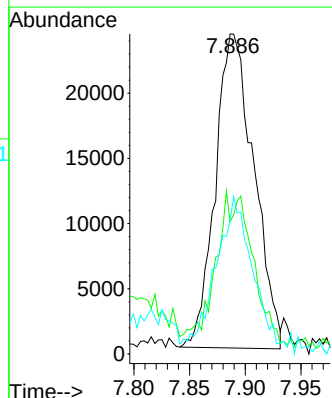
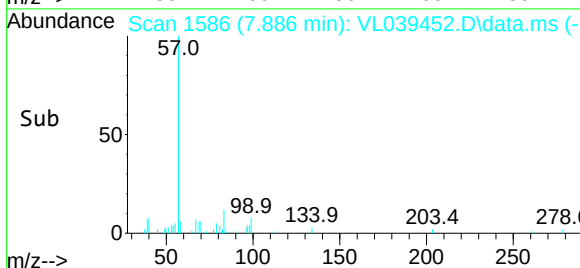
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

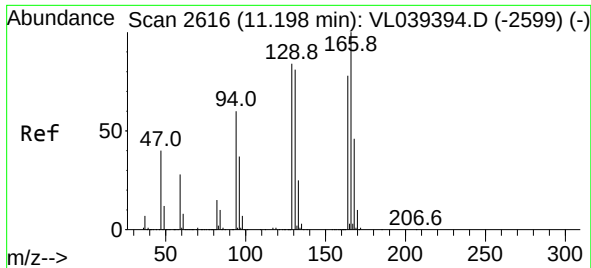


#44
2,2,4-Trimethylpentane
Concen: 0.104 ppbv
RT: 7.886 min Scan# 1586
Delta R.T. 0.035 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



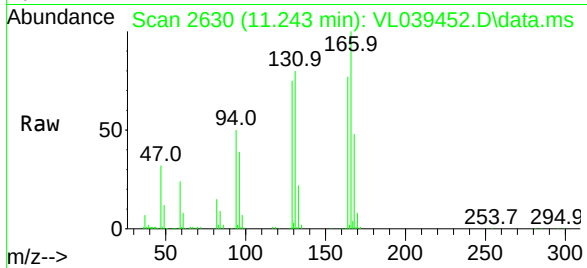
Tgt Ion: 57 Resp: 58085
Ion Ratio Lower Upper
57 100
41 47.5 27.4 41.2#
56 50.4 24.5 36.7#





#52
Tetrachloroethene
Concen: 1.109 ppbv m
RT: 11.243 min Scan# 2190
Delta R.T. 0.045 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

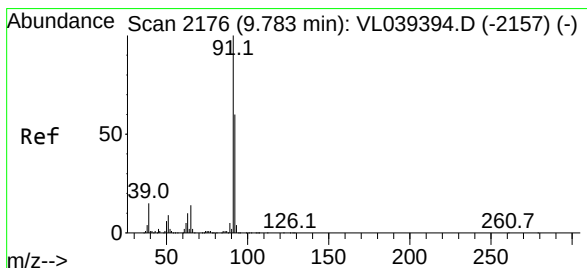
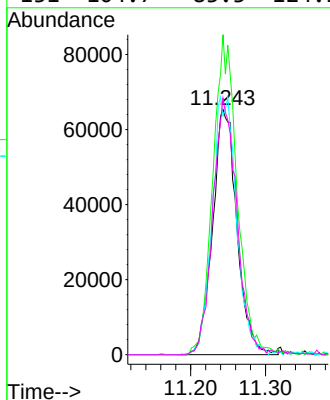
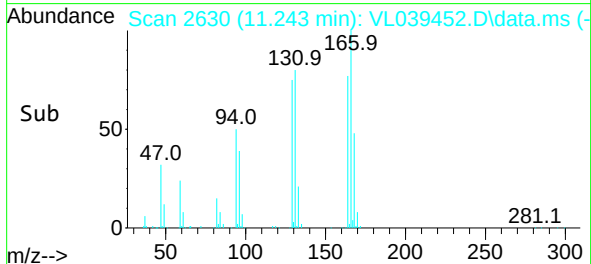
Instrument :
MSVOA_L
ClientSampleId :
SG-5



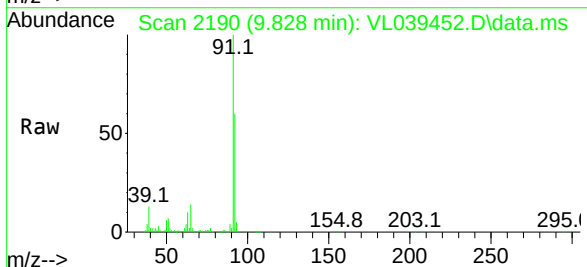
Tgt Ion:164 Resp: 147069
Ion Ratio Lower Upper
164 100
166 130.6 102.2 153.2
129 97.5 85.8 128.8
131 104.7 83.3 124.9

Manual Integrations
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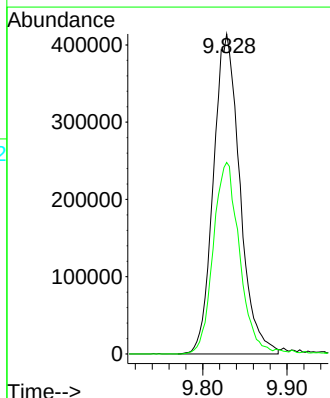
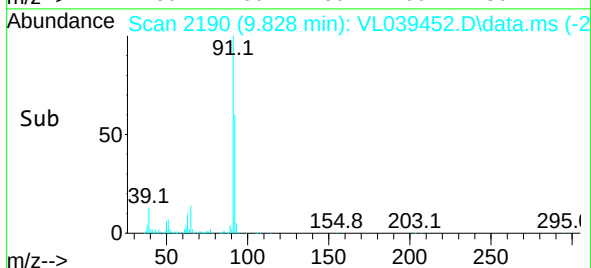
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

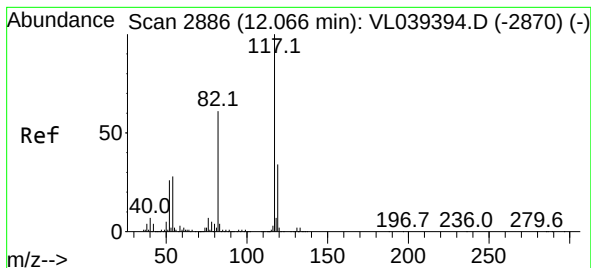


#53
Toluene
Concen: 2.370 ppbv
RT: 9.828 min Scan# 2190
Delta R.T. 0.045 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



Tgt Ion: 91 Resp: 900522
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.105 min Scan# 2898

Delta R.T. 0.039 min

Lab File: VL039452.D

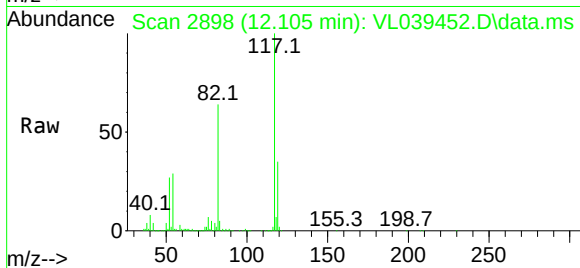
Acq: 12 Jul 2022 17:18

Instrument :

MSVOA_L

ClientSampleId :

SG-5



Tgt Ion:117 Resp: 385986

Ion Ratio Lower Upper

117 100

82 64.4 50.8 76.2

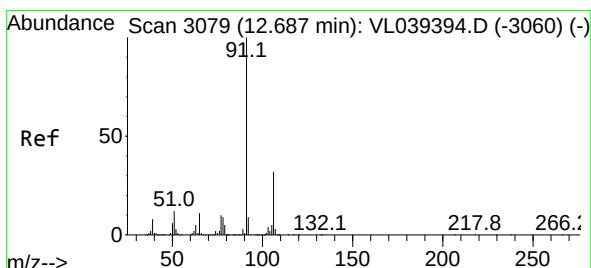
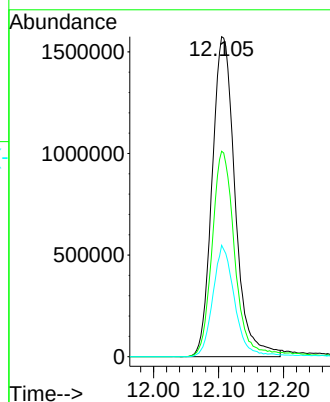
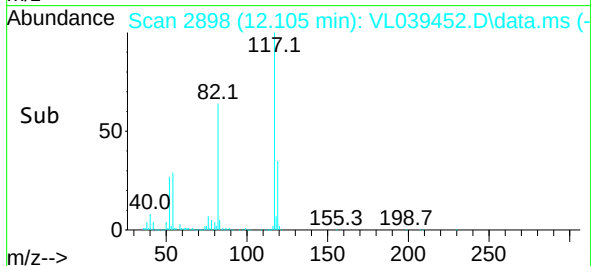
119 33.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#58

Ethyl Benzene

Concen: 1.127 ppbv

RT: 12.729 min Scan# 3092

Delta R.T. 0.042 min

Lab File: VL039452.D

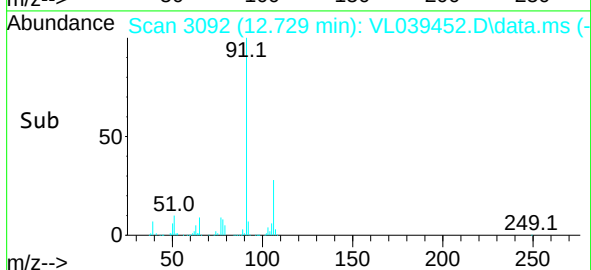
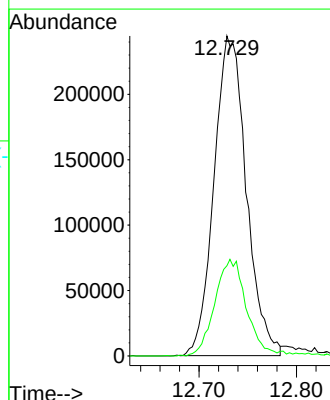
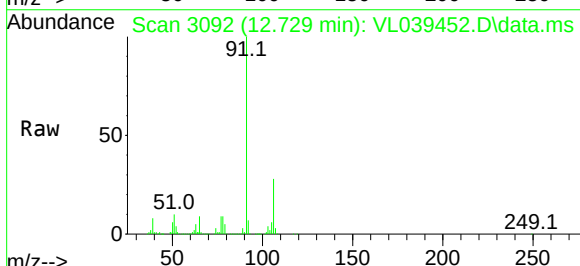
Acq: 12 Jul 2022 17:18

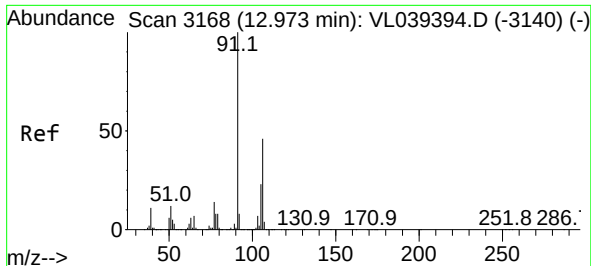
Tgt Ion: 91 Resp: 561911

Ion Ratio Lower Upper

91 100

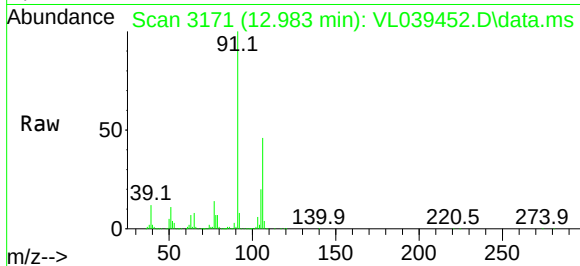
106 28.0 25.4 38.0





#59
m/p-Xylene
Concen: 5.980 ppbv
RT: 12.983 min Scan# 3168
Delta R.T. 0.010 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

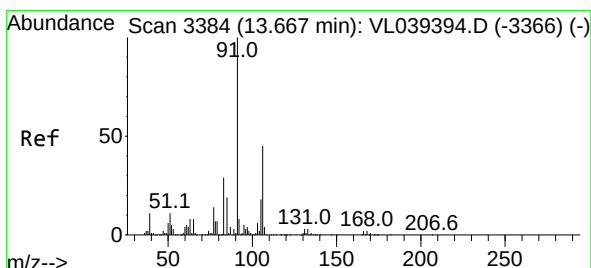
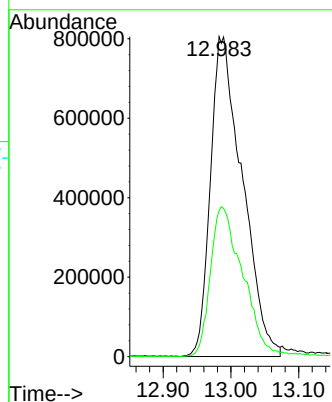
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 91 Resp: 262778
Ion Ratio Lower Upper
91 100
106 48.2 35.4 53.2

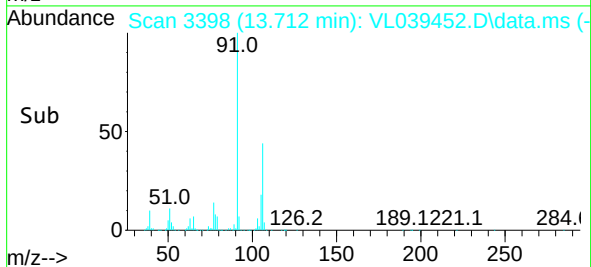
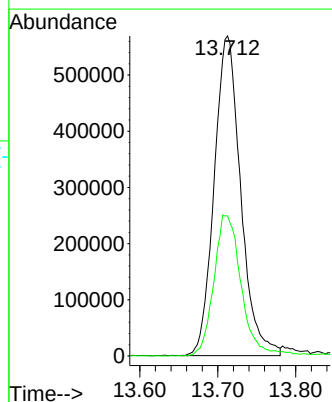
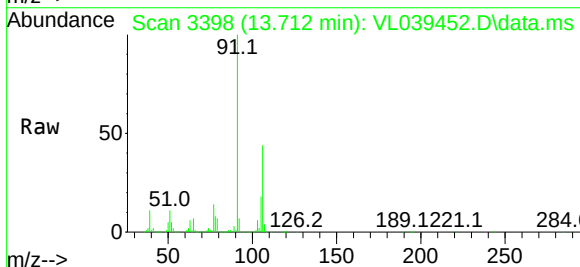
Manual Integrations
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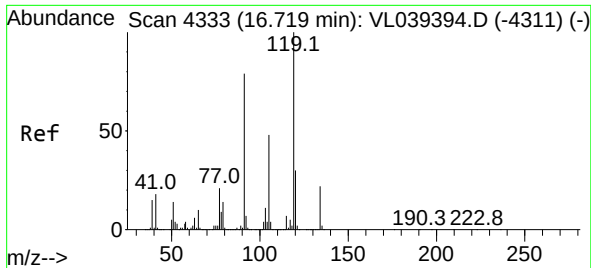
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#60
o-Xylene
Concen: 3.243 ppbv
RT: 13.712 min Scan# 3398
Delta R.T. 0.045 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

Tgt Ion: 91 Resp: 1349414
Ion Ratio Lower Upper
91 100
106 46.7 22.4 67.3





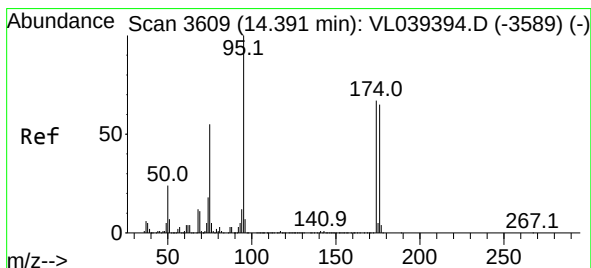
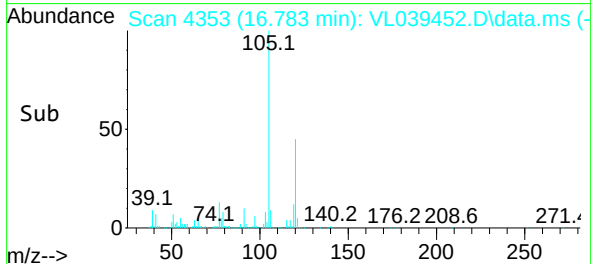
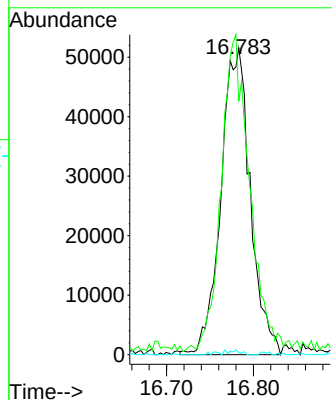
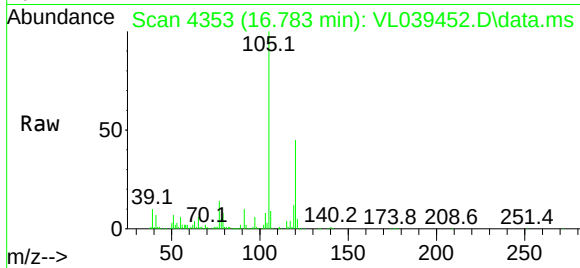
#65
tert-Butylbenzene
Concen: 0.207 ppbv
RT: 16.783 min Scan# 4119
Delta R.T. 0.064 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

Instrument : MSVOA_L
ClientSampleId : SG-5

Tgt Ion: 119 Resp: 121184
Ion Ratio Lower Upper
119 100
91 99.8 63.4 95.2
134 0.9 15.9 23.9

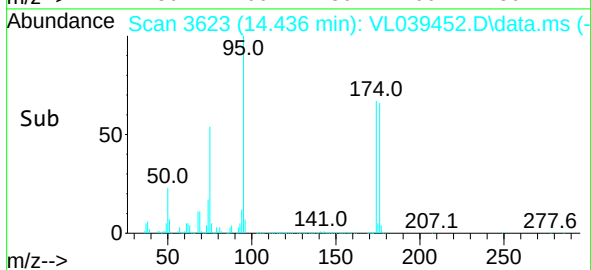
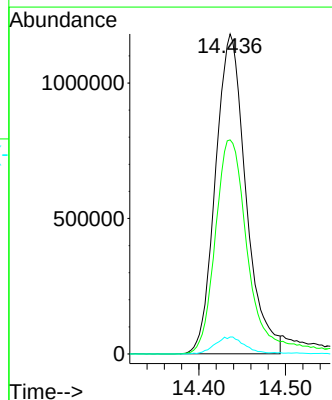
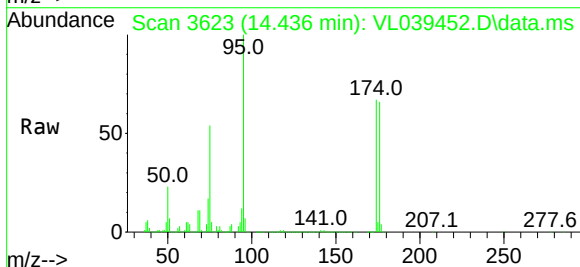
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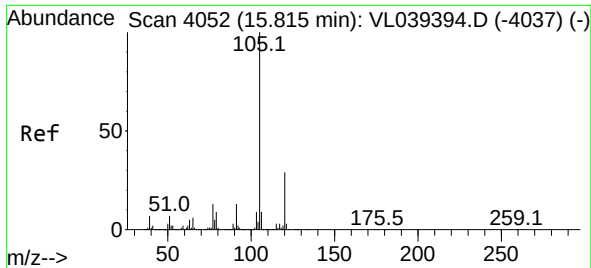
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.034 ppbv
RT: 14.436 min Scan# 3623
Delta R.T. 0.045 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

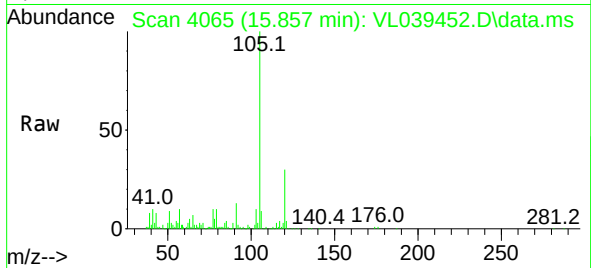
Tgt Ion: 95 Resp: 2873217
Ion Ratio Lower Upper
95 100
174 74.5 55.9 83.9
175 5.7 4.2 6.4





#72
4-Ethyltoluene
Concen: 0.470 ppbv
RT: 15.857 min Scan# 4052
Delta R.T. 0.042 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

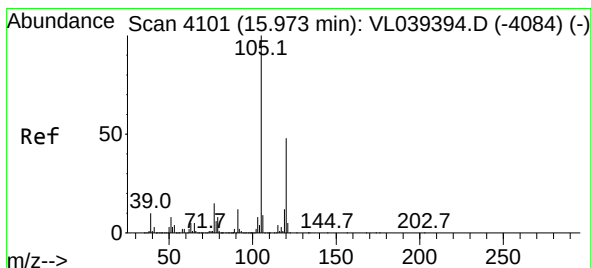
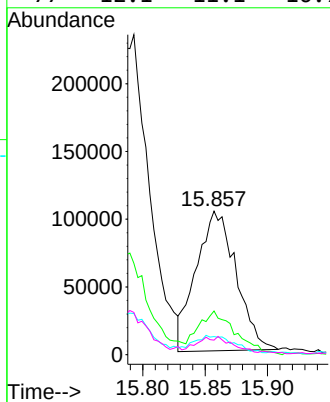
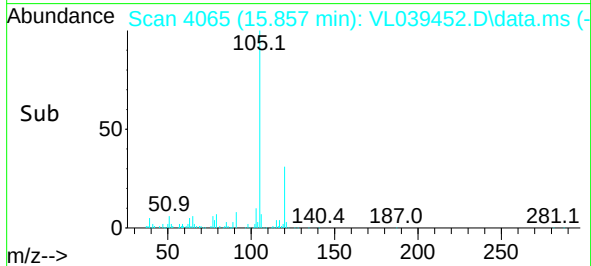
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion:105 Resp: 22997
Ion Ratio Lower Upper
105 100
120 31.5 24.2 36.2
91 14.3 10.2 15.4
77 12.1 11.1 16.7

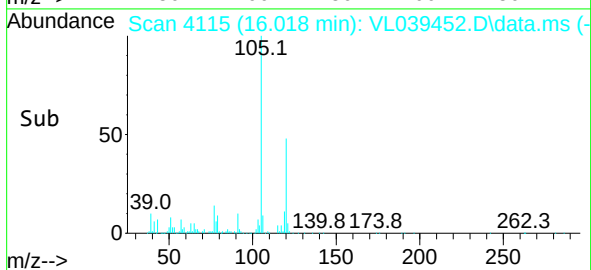
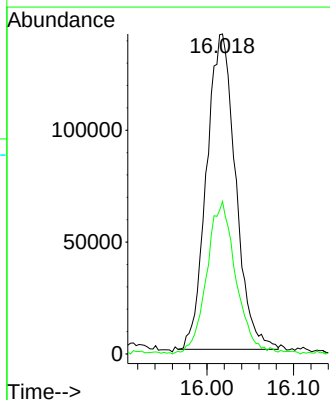
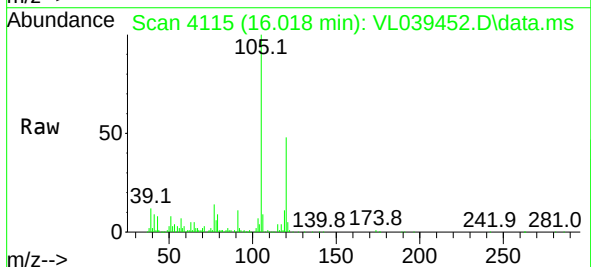
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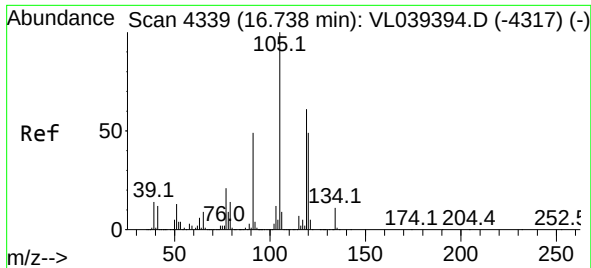
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.734 ppbv
RT: 16.018 min Scan# 4115
Delta R.T. 0.045 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

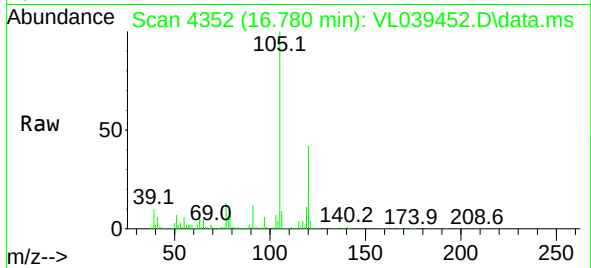
Tgt Ion:105 Resp: 329602
Ion Ratio Lower Upper
105 100
120 47.8 38.2 57.4





#74
1,2,4-Trimethylbenzene
Concen: 2.066 ppbv
RT: 16.780 min Scan# 41
Delta R.T. 0.042 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18

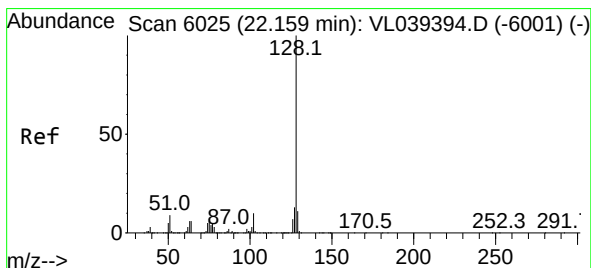
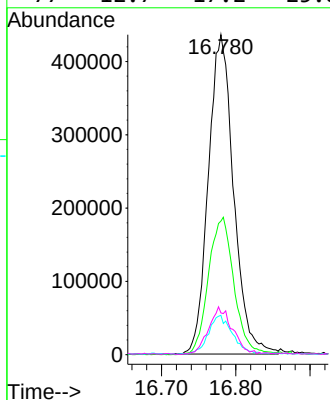
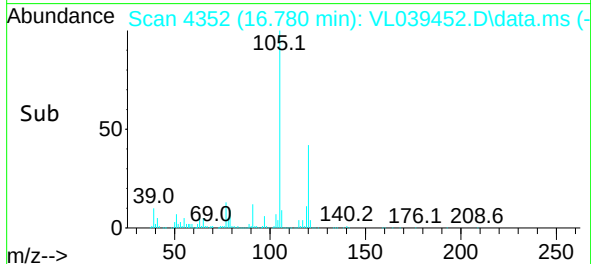
Instrument :
MSVOA_L
ClientSampleId :
SG-5



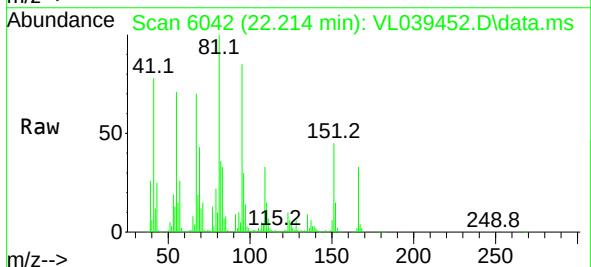
Tgt Ion:105 Resp: 102706
Ion Ratio Lower Upper
105 100
120 41.8 39.5 59.3
91 12.2 39.2 58.8
77 12.7 17.2 25.8#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#79
Naphthalene
Concen: 0.179 ppbv m
RT: 22.214 min Scan# 6042
Delta R.T. 0.055 min
Lab File: VL039452.D
Acq: 12 Jul 2022 17:18



Tgt Ion:128 Resp: 61369
Ion Ratio Lower Upper
128 100
127 22.8 10.6 15.8#
129 16.8 8.8 13.2#

