

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL038998.D
 Acq On : 9 May 2022 22:22
 Operator : SY/AP
 Sample : N2744-01DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2022
 Supervised By :Mahesh Dadoda 05/11/2022

Quant Time: May 20 04:08:05 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1300185	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3484653	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	3108420	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2452707	9.96	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	26833m	0.132	ppbv	
4) Chloromethane	3.13	50	13031m	0.161	ppbv	
9) Propene	3.00	41	2386525	33.872	ppbv	86
10) Heptane	8.10	43	1679720	9.718	ppbv	98
13) Ethanol	3.59	45	9737041	1952.850	ppbv	90
15) Acetone	3.84	43	457682m	3.732	ppbv	
20) Methylene Chloride	4.33	84	70073	1.516	ppbv #	87
26) Hexane	5.67	57	2405431	18.442	ppbv #	39
27) Carbon Disulfide	4.54	76	101769	0.821	ppbv #	83
30) Cyclohexane	7.11	84	520395	4.765	ppbv	95
34) 2-Butanone	5.22	43	878514	4.942	ppbv	96
36) Benzene	6.87	78	1162574	3.898	ppbv	99
41) Tetrahydrofuran	6.04	42	90931m	0.761	ppbv	
44) 2,2,4-Trimethylpentane	7.84	57	6656725	12.721	ppbv #	92
50) 4-Methyl-2-Pentanone	8.72	43	250537m	0.804	ppbv	
51) 2-Hexanone	10.09	43	648232m	2.849	ppbv	
52) Tetrachloroethene	11.19	164	3902293	36.618	ppbv	98
53) Toluene	9.78	91	7580062	22.678	ppbv	96
58) Ethyl Benzene	12.68	91	2114267	4.726	ppbv	100
59) m/p-Xylene	12.93	91	4950687	12.964	ppbv	93
60) o-Xylene	13.66	91	1852467	5.154	ppbv	100
62) Isopropylbenzene	14.63	105	189468	0.360	ppbv	98
64) n-propylbenzene	15.53	120	87625	0.690	ppbv	95
72) 4-Ethyltoluene	15.81	105	403941	0.986	ppbv	98
73) 1,3,5-Trimethylbenzene	15.96	105	284957	0.773	ppbv	100
74) 1,2,4-Trimethylbenzene	16.73	105	923035	2.286	ppbv #	65

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

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Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
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Quant Time: May 20 04:08:05 2022

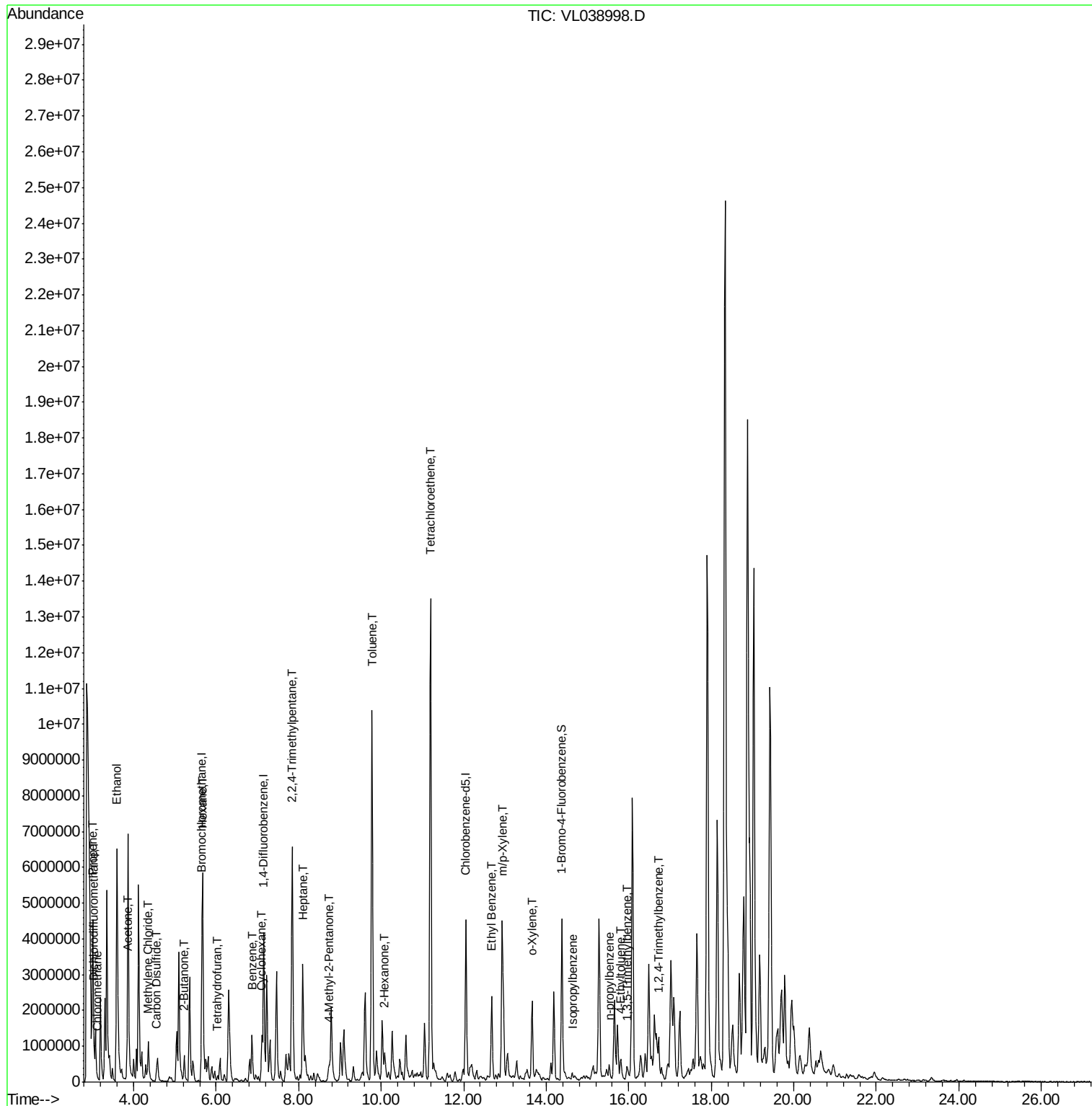
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522

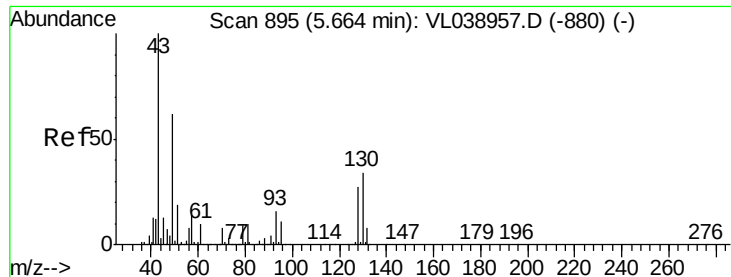
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 May 2022 22:22

Tot Ion:

Ion Ratio

49 100

128 48.

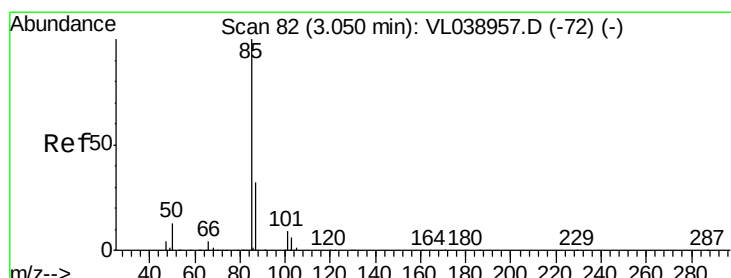
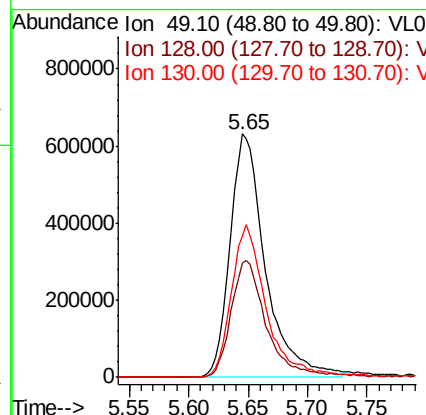
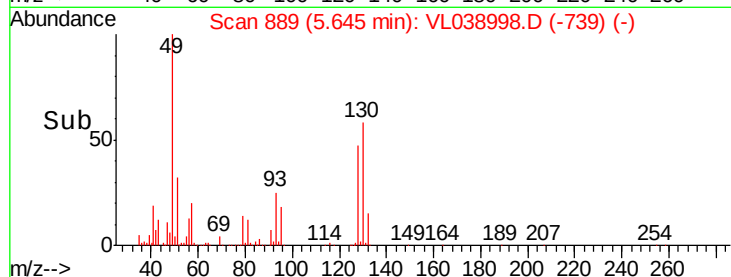
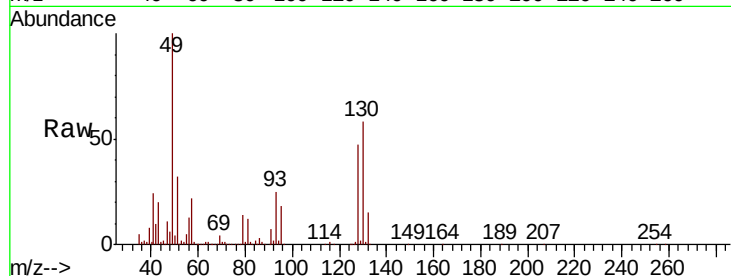
130 63.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#2

Dichlorodifluoromethane

Concen: 0.132 ppbv m

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038998.D

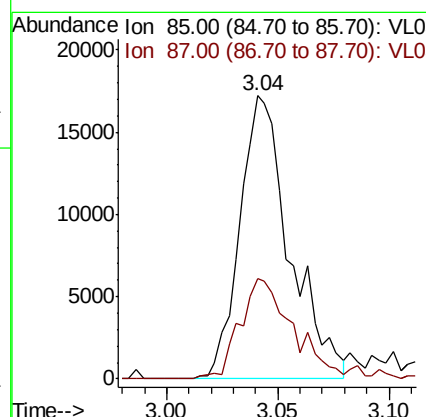
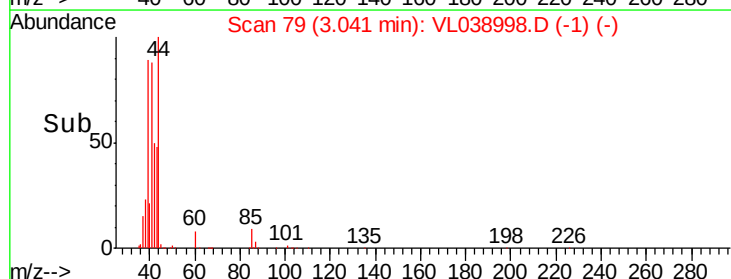
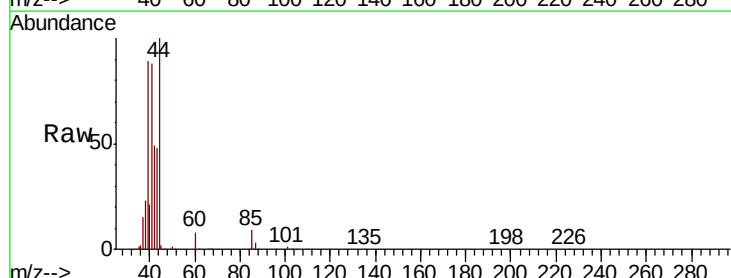
Acq: 9 May 2022 22:22

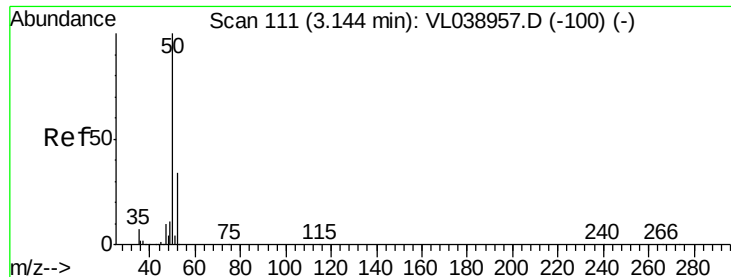
Tgt Ion: 85 Resp: 26833

Ion Ratio Lower Upper

85 100

87 35.2 25.7 38.5





#4

Chloromethane

Concen: 0.161 ppbv m

RT: 3.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 May 2022 22:22 SV1DL

Tot Ion:

Ion Ratio

50 100

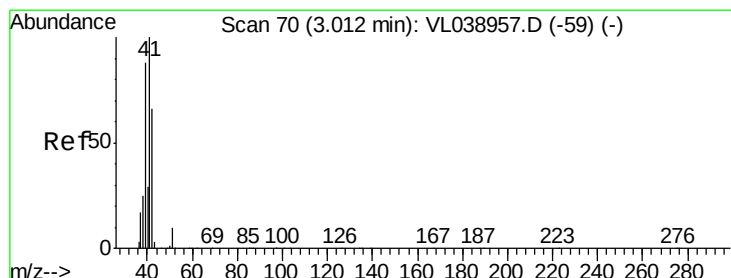
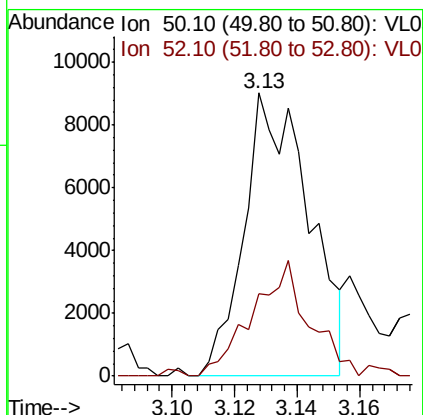
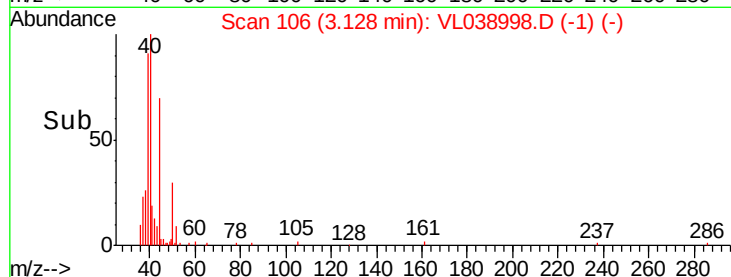
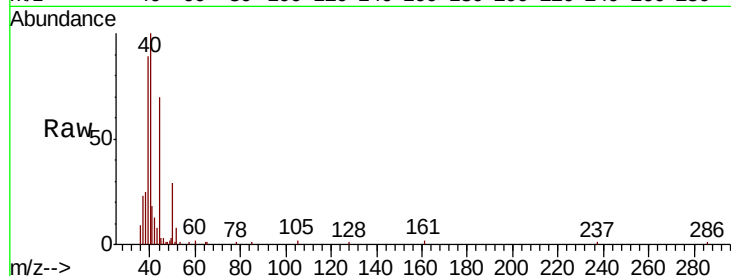
52 29.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#9

Propene

Concen: 33.872 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL038998.D

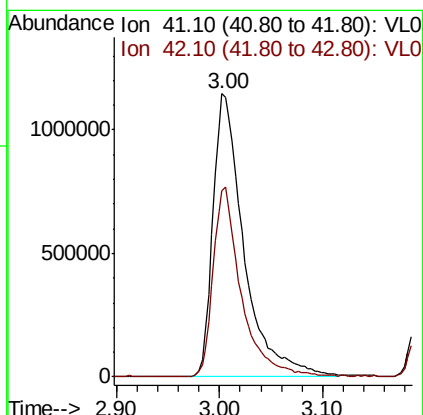
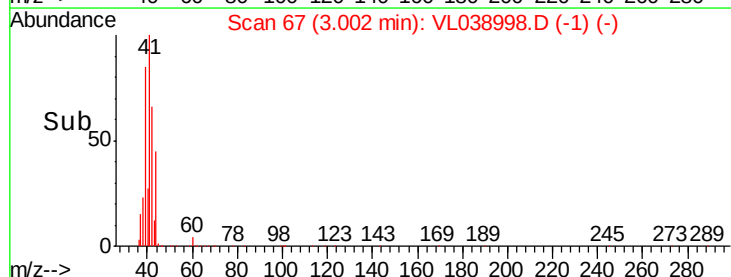
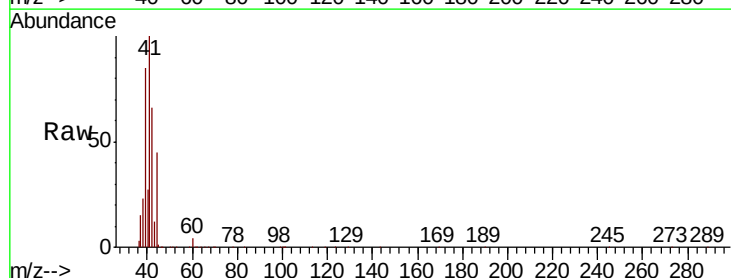
Acq: 9 May 2022 22:22

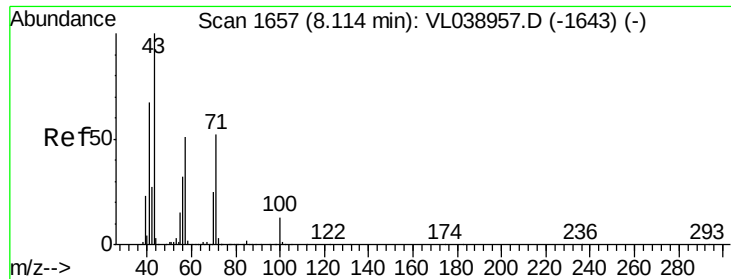
Tgt Ion: 41 Resp: 2386525

Ion Ratio Lower Upper

41 100

42 61.1 58.3 87.5



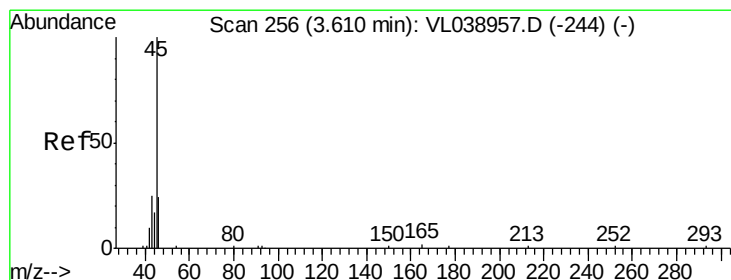
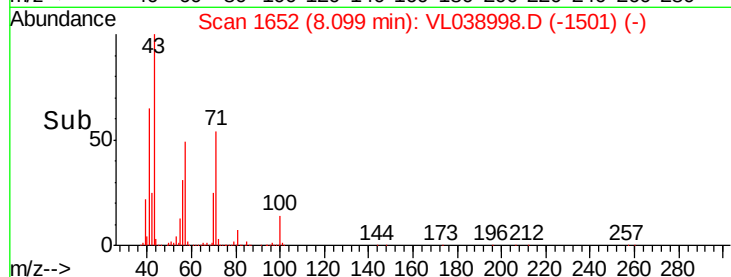
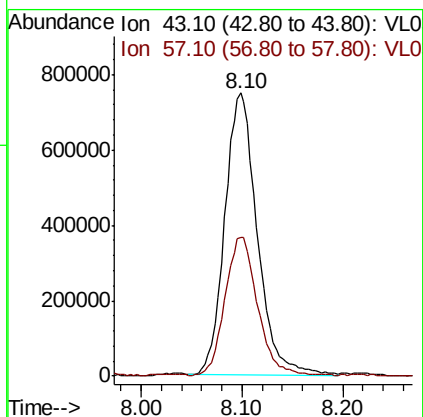
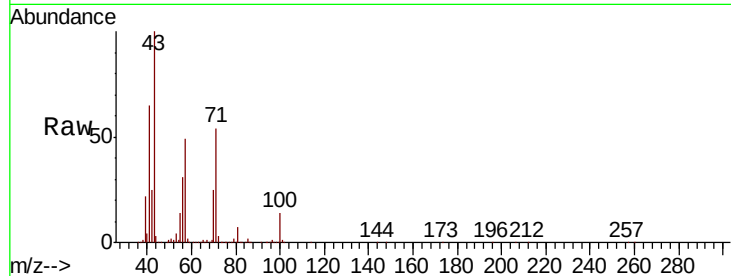


#10
Heptane
Concen: 9.718 ppbv
RT: 8.10
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
43 100
57 49.

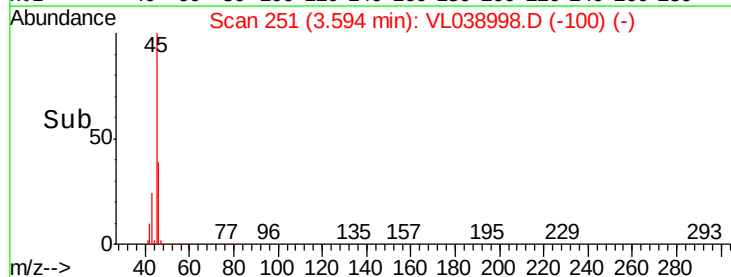
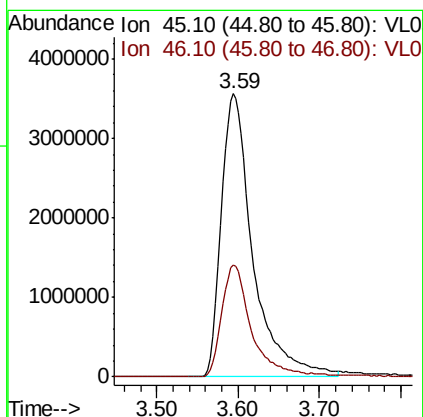
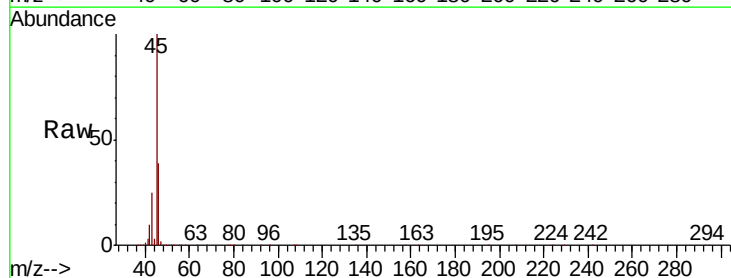
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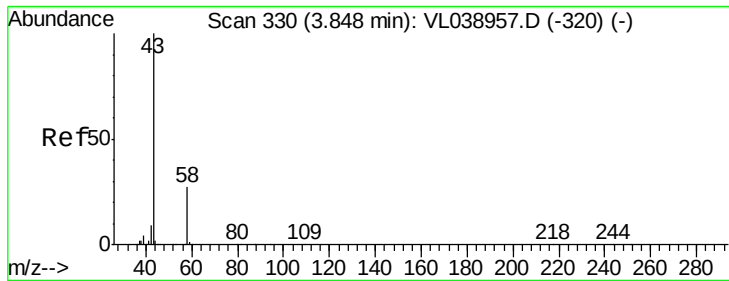
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#13
Ethanol
Concen: 1952.850 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.02 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion: 45 Resp: 9737041
Ion Ratio Lower Upper
45 100
46 38.8 18.0 72.2



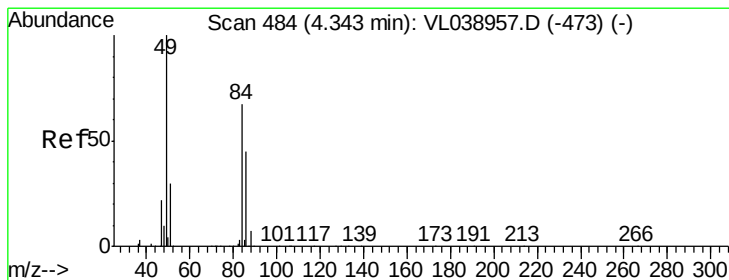
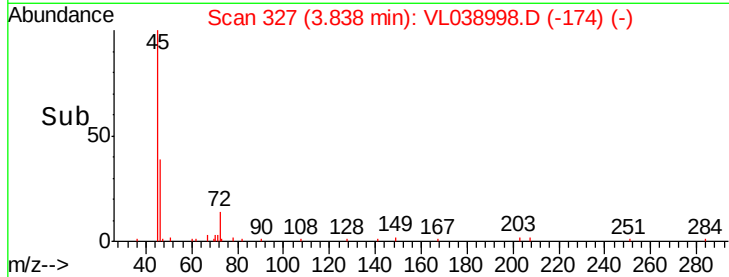
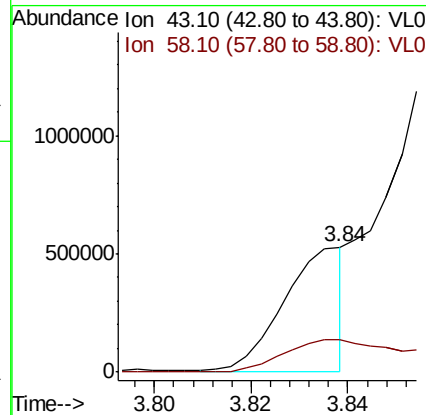
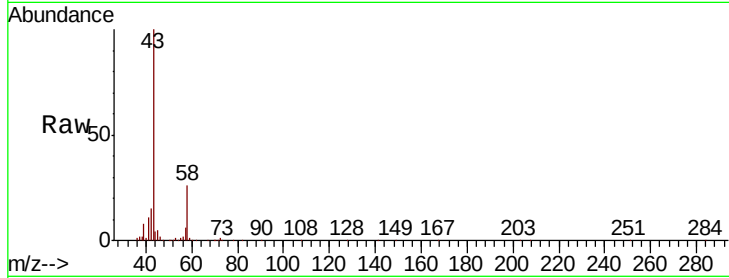


#15
Acetone
Concen: 3.732 ppbv m
RT: 3.84
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
43 100
58 82.

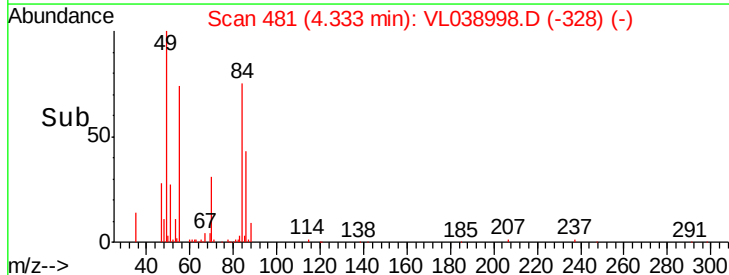
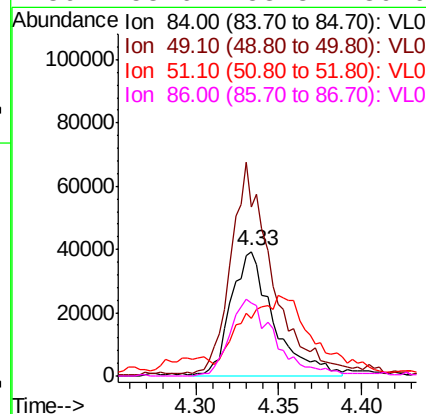
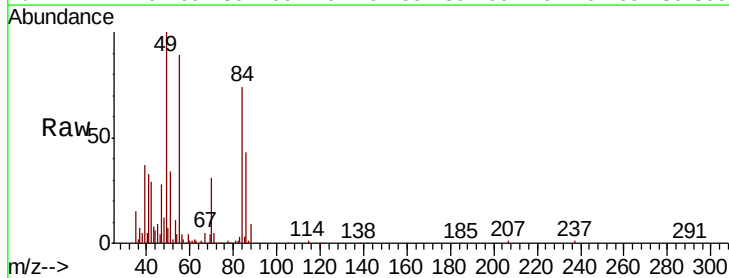
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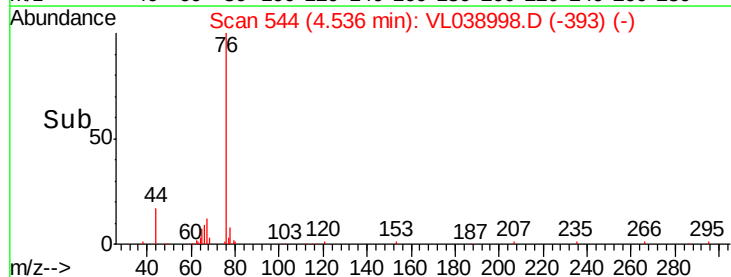
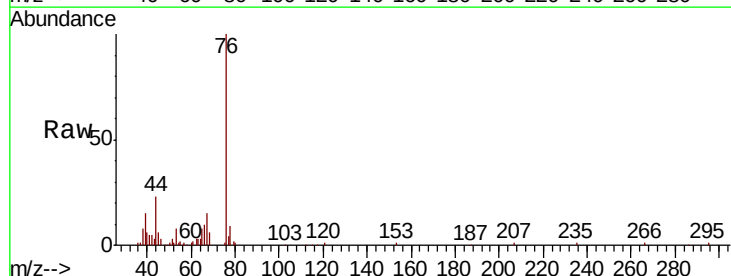
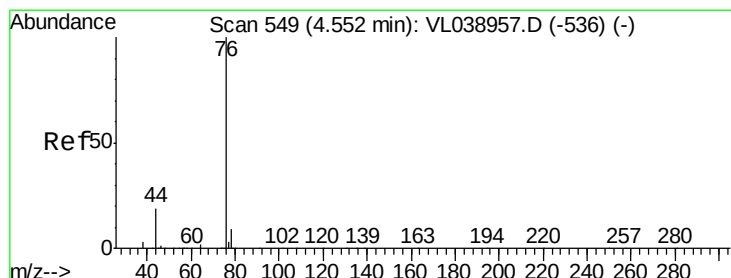
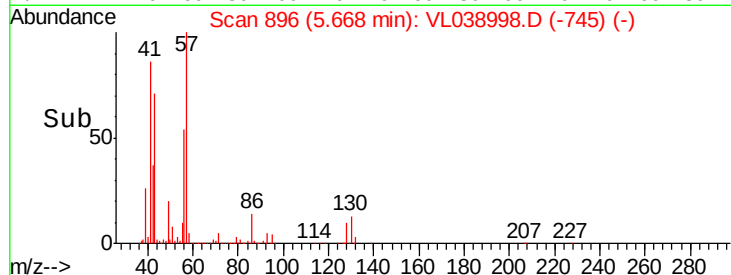
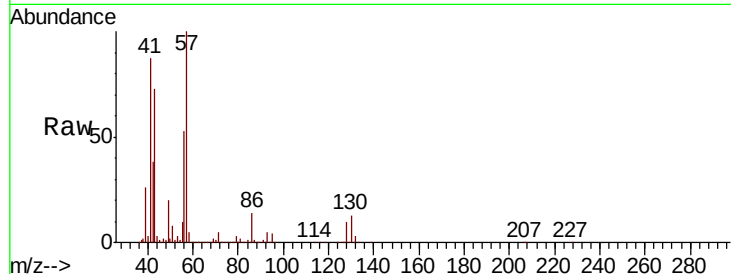
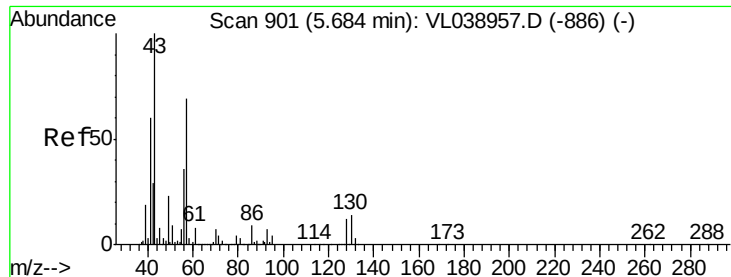
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#20
Methylene Chloride
Concen: 1.516 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion: 84 Resp: 70073
Ion Ratio Lower Upper
84 100
49 134.9 119.9 179.9
51 33.0 35.7 53.5#
86 58.6 53.8 80.6





#26

Hexane

Concen: 18.442 ppbv

RT: 5.67 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 9 May 2022 22:22 SV1DL

Tot Ion:

Ion Ratio

57 100

41 90.

43 75.

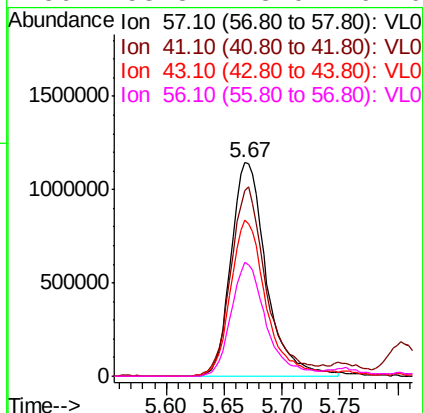
56 53.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#27

Carbon Disulfide

Concen: 0.821 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.02 min

Lab File: VL038998.D

Acq: 9 May 2022 22:22

Tgt Ion: 76 Resp: 101769

Ion Ratio Lower Upper

76 100

44 30.1

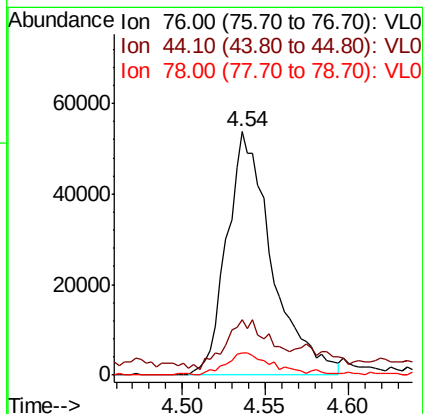
78 10.9

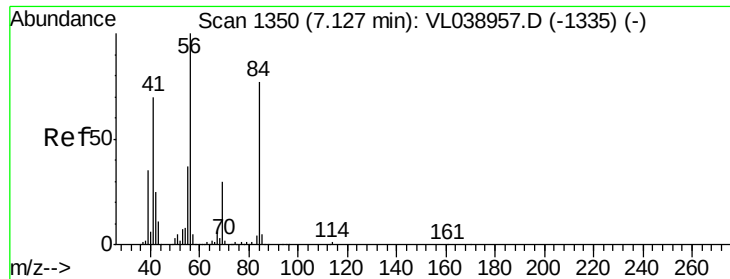
15.3

22.9#

8.2

12.2



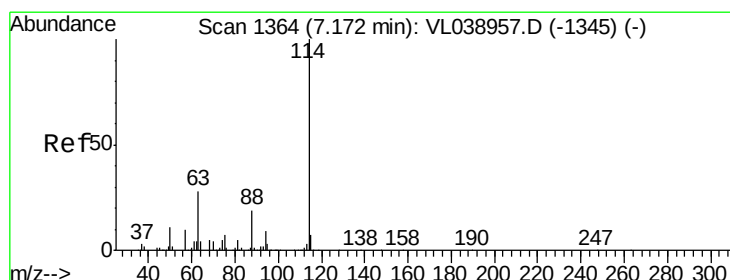
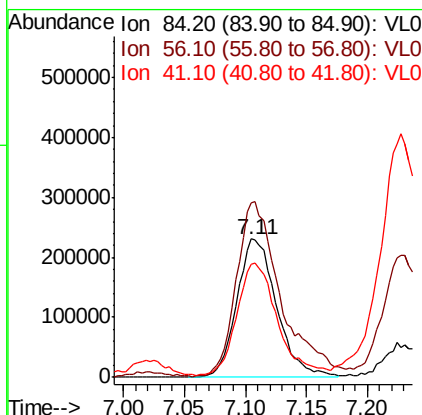
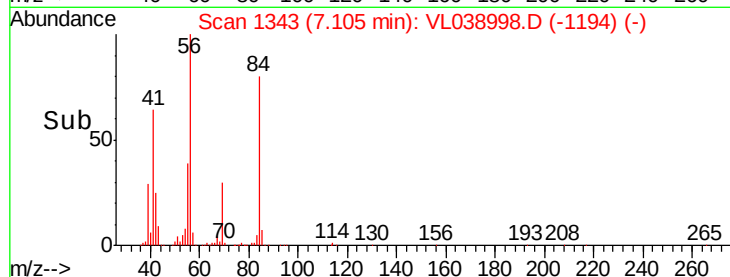
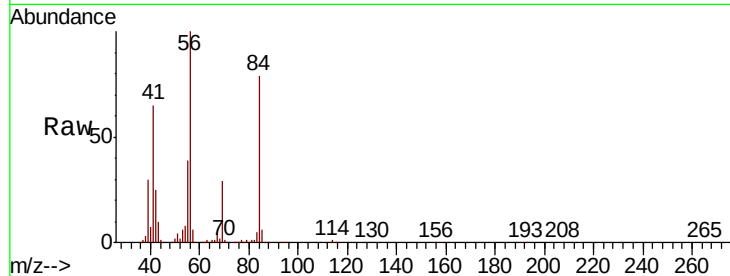


#30
Cvclohexane
Concen: 4.765 ppbv
RT: 7.11
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1DL
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
84 100
56 142.
41 80.

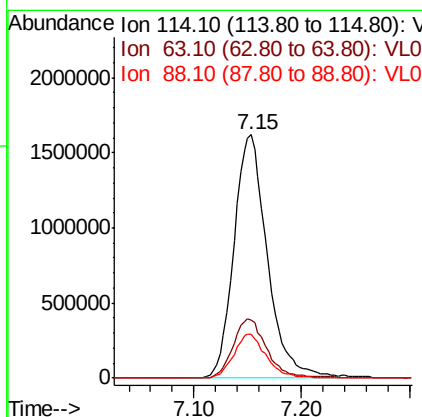
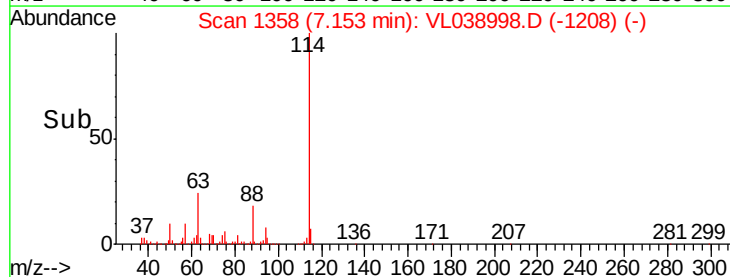
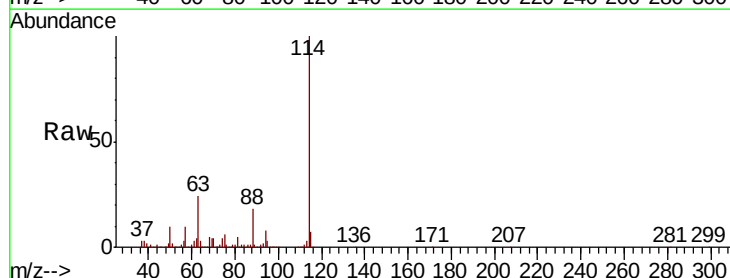
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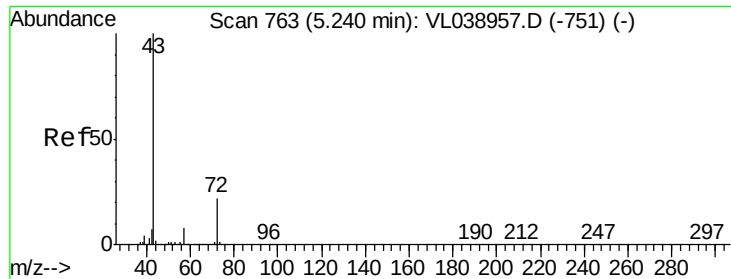
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.02 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion:114 Resp: 3484653
Ion Ratio Lower Upper
114 100
63 24.8 22.6 33.8
88 17.8 15.4 23.0



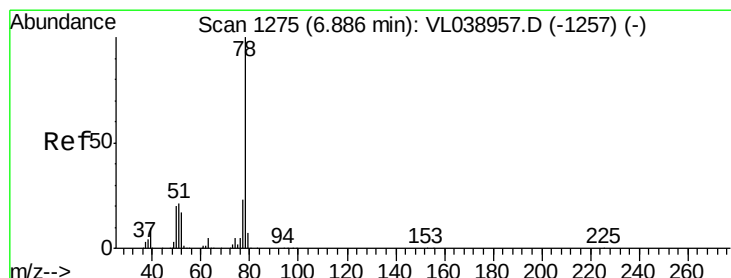
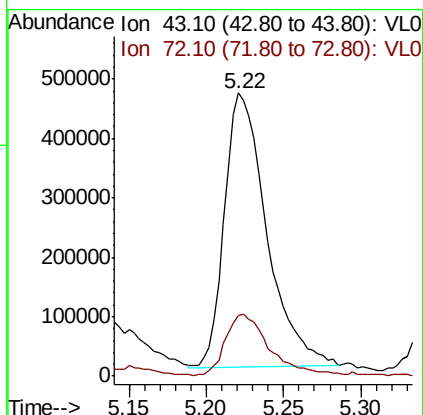
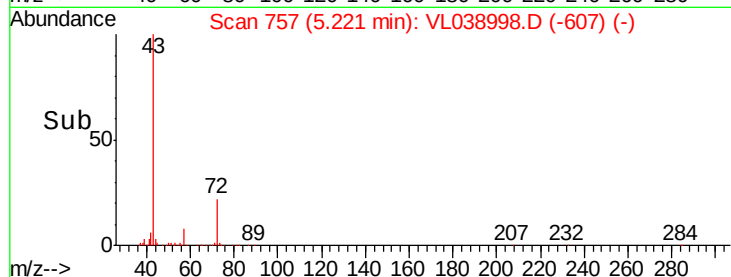
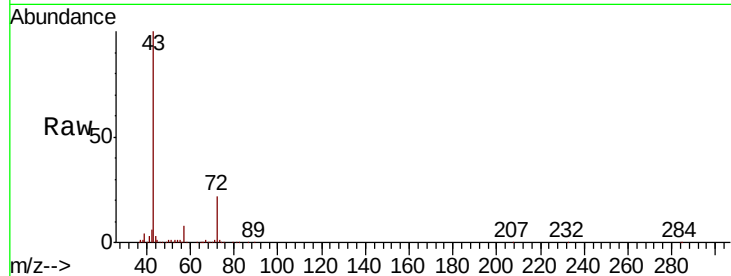


#34
2-Butanone
Concen: 4.942 ppbv
RT: 5.22
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV1DL
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
43 100
72 24.

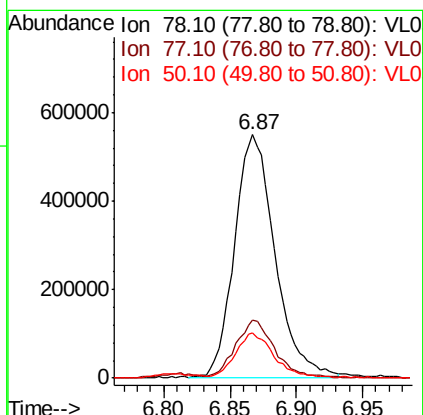
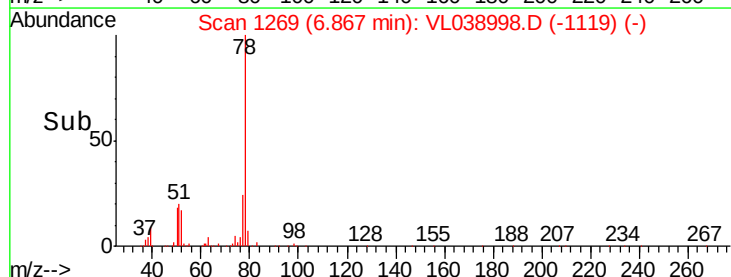
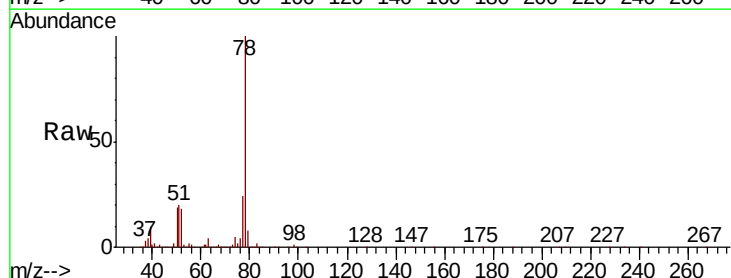
Manual Integrations
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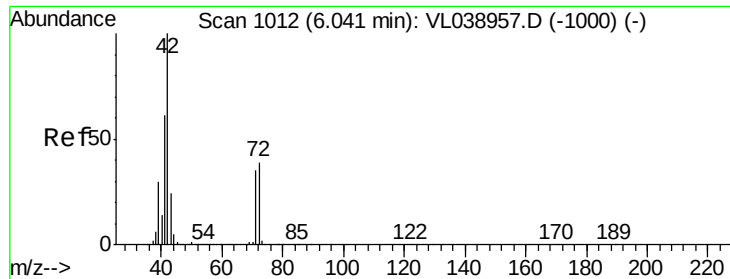
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#36
Benzene
Concen: 3.898 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.02 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion: 78 Resp: 1162574
Ion Ratio Lower Upper
78 100
77 23.5 18.6 28.0
50 18.3 15.6 23.4



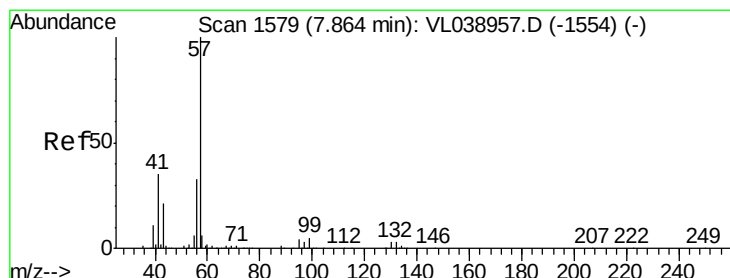
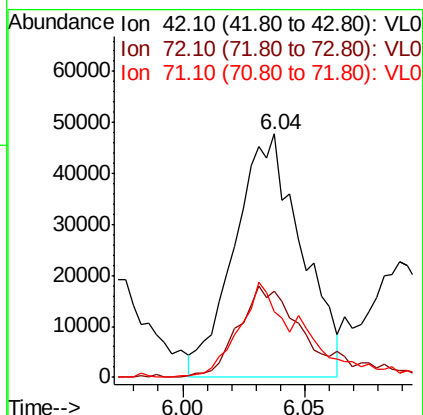
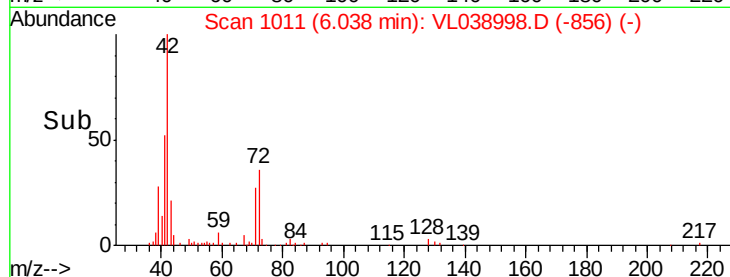
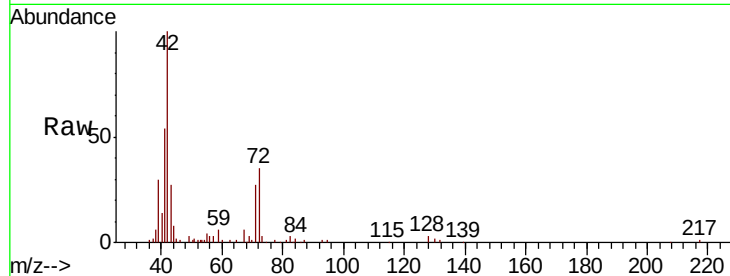


#41
Tetrahydrofuran
Concen: 0.761 ppbv m
RT: 6.04
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
SV1DL
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
42 100
72 40.
71 38.

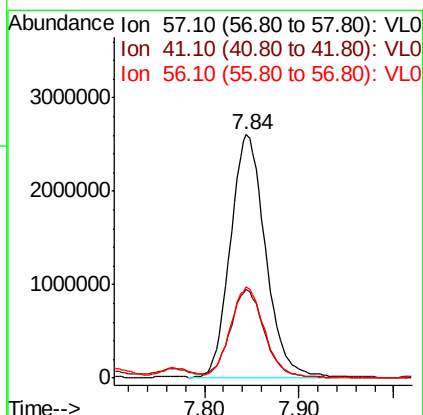
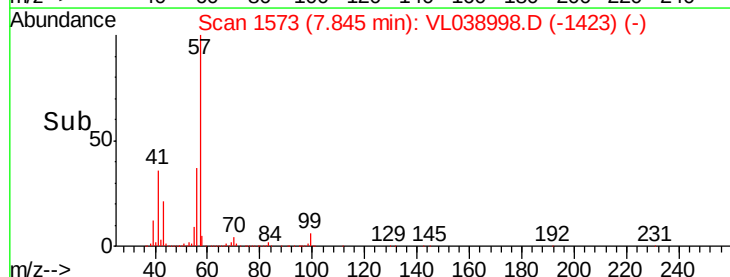
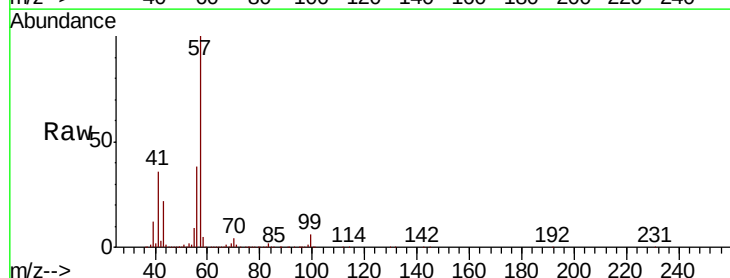
Manual Integrations
APPROVED

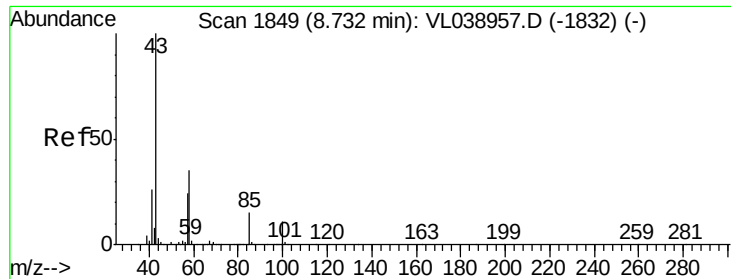
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#44
2,2,4-Trimethylpentane
Concen: 12.721 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.02 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion: 57 Resp: 6656725
Ion Ratio Lower Upper
57 100
41 35.6 26.3 39.5
56 37.1 24.6 37.0#



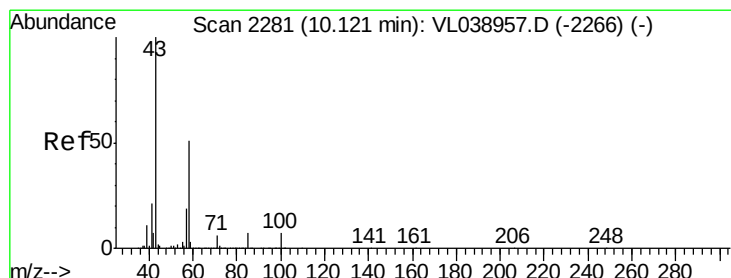
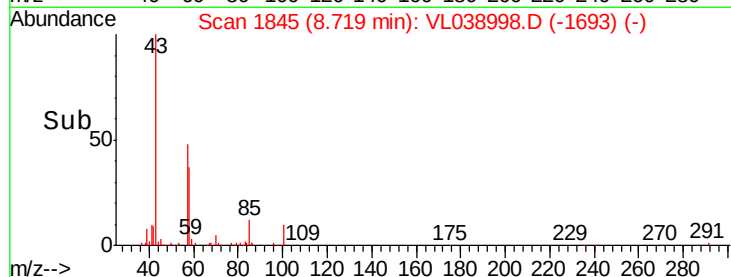
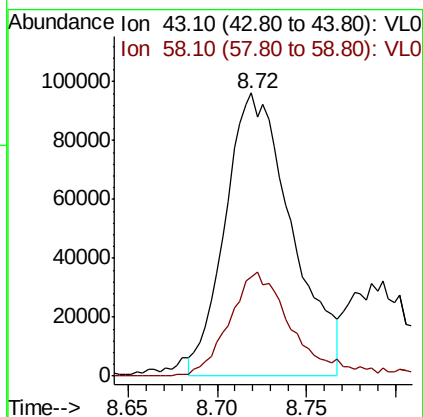
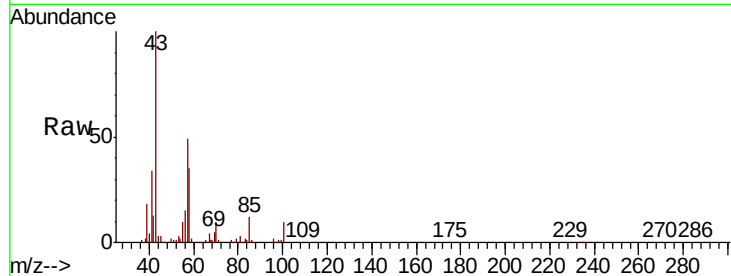


#50
4-Methyl-2-Pentanone
Concen: 0.804 ppbv m
RT: 8.72
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1DL
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
43 100
58 0.

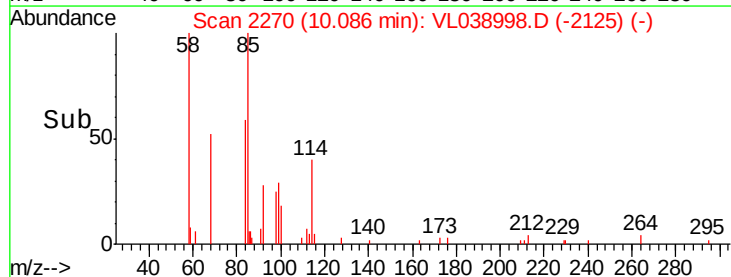
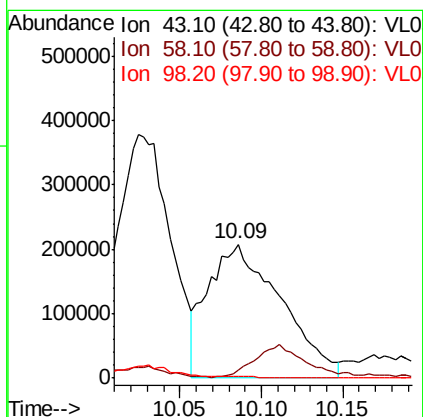
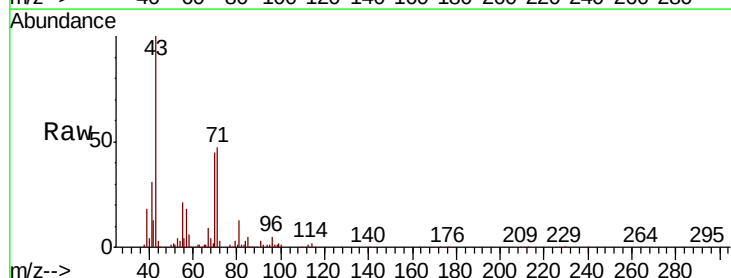
Manual Integrations
APPROVED

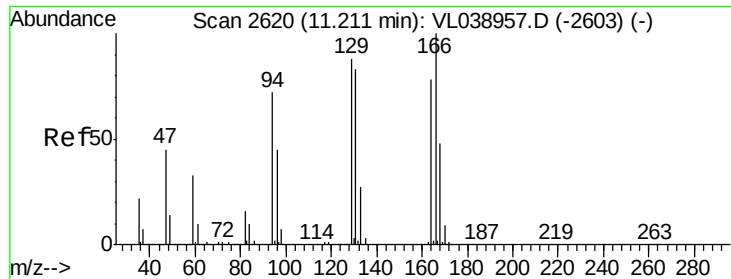
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#51
2-Hexanone
Concen: 2.849 ppbv m
RT: 10.09 min Scan# 2270
Delta R.T. -0.04 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion: 43 Resp: 648232
Ion Ratio Lower Upper
43 100
58 19.1 39.3 58.9#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 36.618 ppbv

RT: 11.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV1DL

Acq: 9 May 2022 22:22

Tot Ion:1

Ion Ratio

164 100

166 126.

129 108.

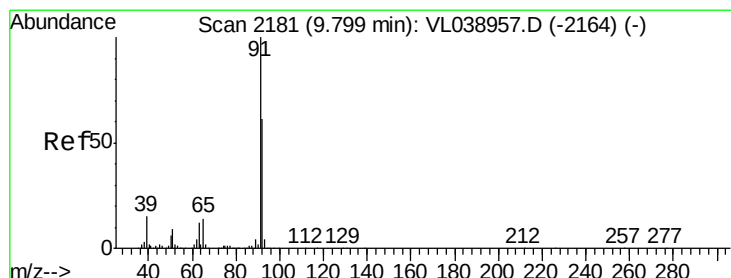
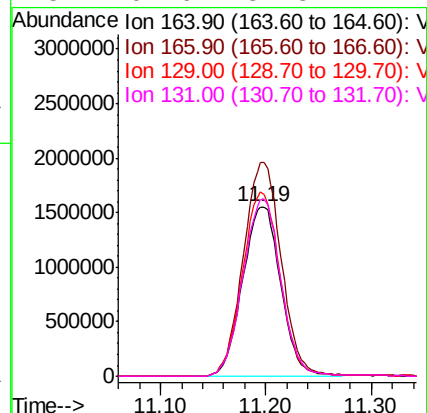
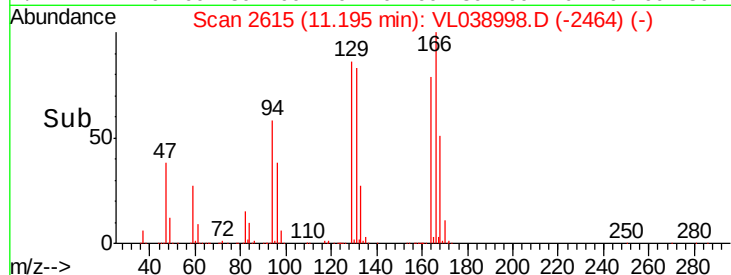
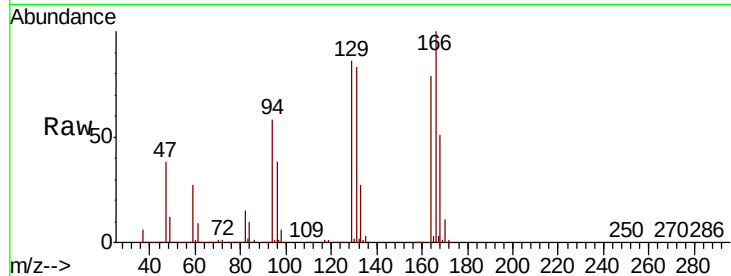
131 104.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#53

Toluene

Concen: 22.678 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.02 min

Lab File: VL038998.D

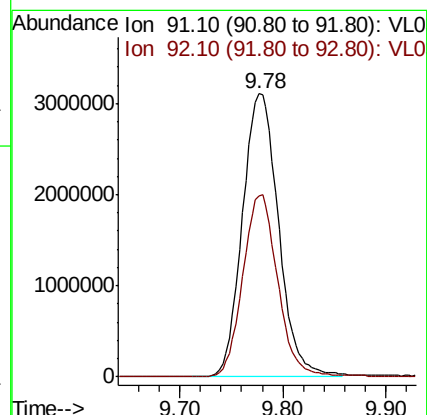
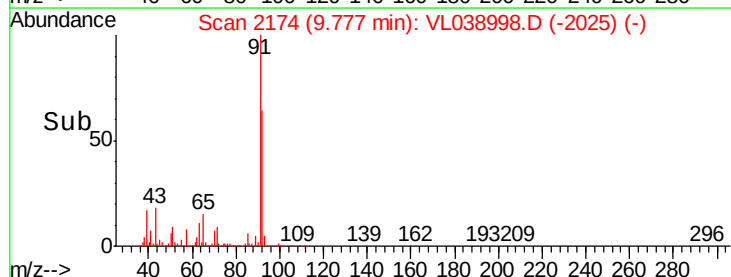
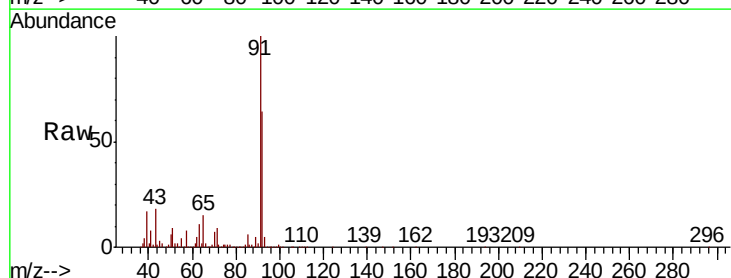
Acq: 9 May 2022 22:22

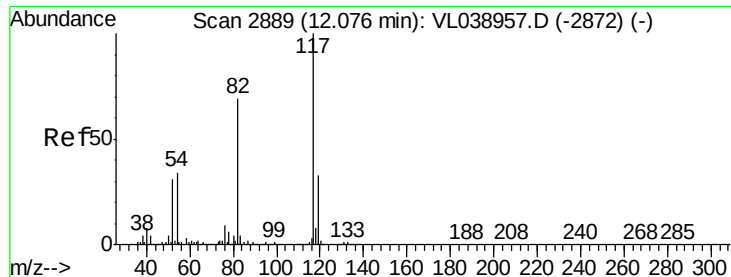
Tgt Ion: 91 Resp: 7580062

Ion Ratio Lower Upper

91 100

92 63.1 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 9 May 2022 22:22

Tot Ion:1

Ion Rati

117 100

82 64.

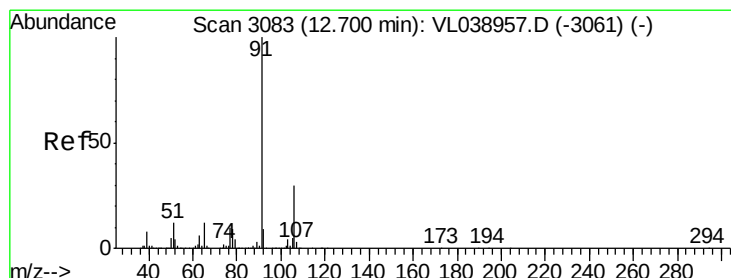
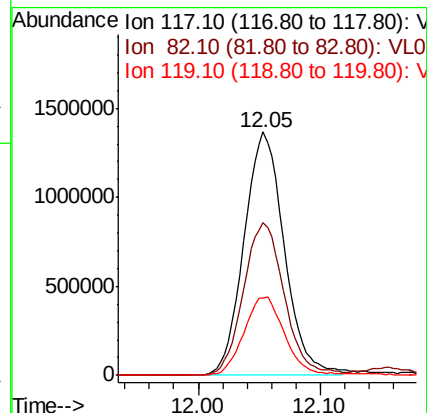
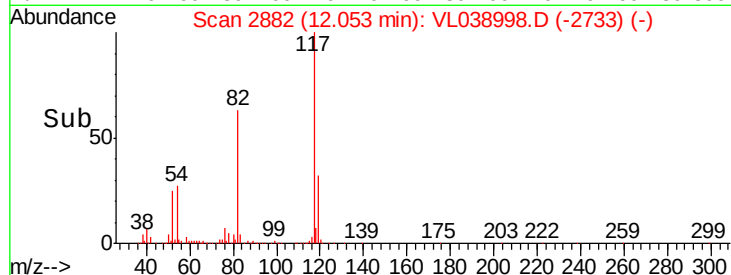
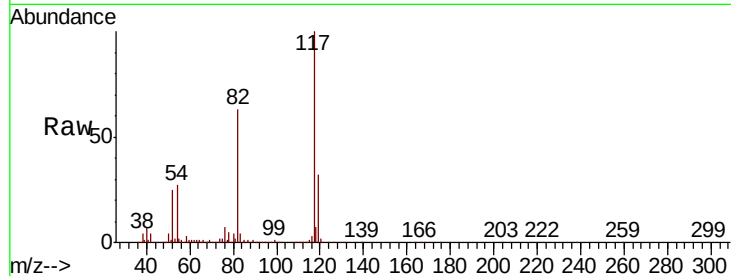
119 33.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#58

Ethyl Benzene

Concen: 4.726 ppbv

RT: 12.68 min Scan# 3077

Delta R.T. -0.02 min

Lab File: VL038998.D

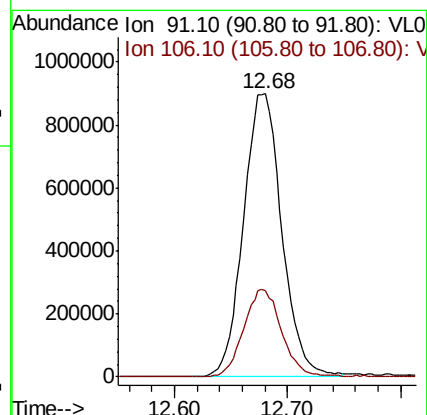
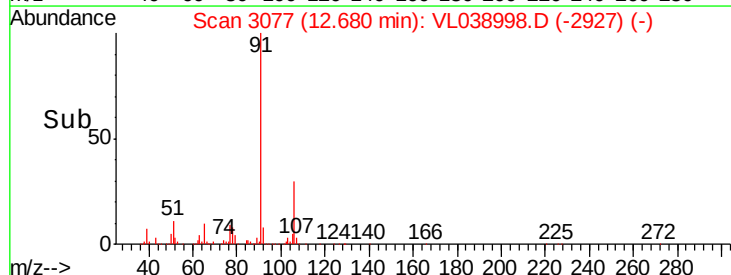
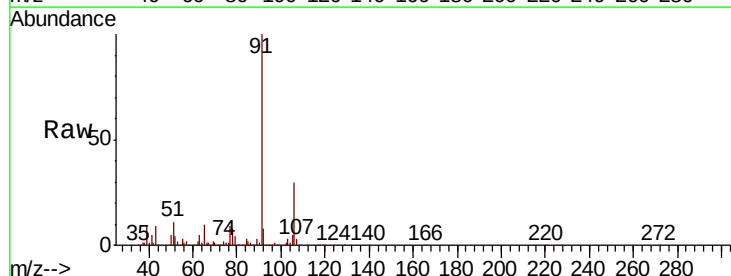
Acq: 9 May 2022 22:22

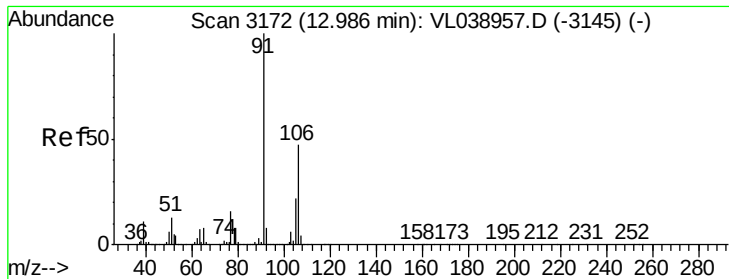
Tgt Ion: 91 Resp: 2114267

Ion Ratio Lower Upper

91 100

106 30.3 24.2 36.4



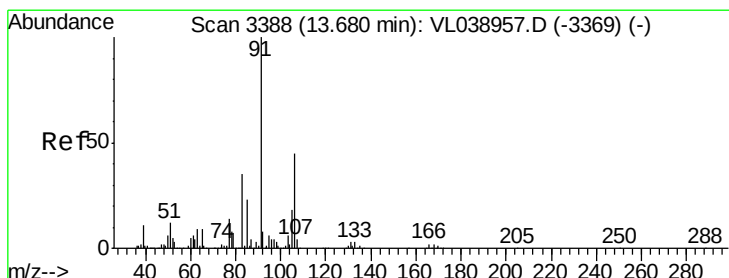
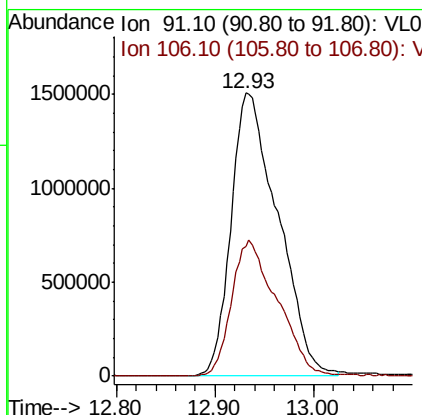
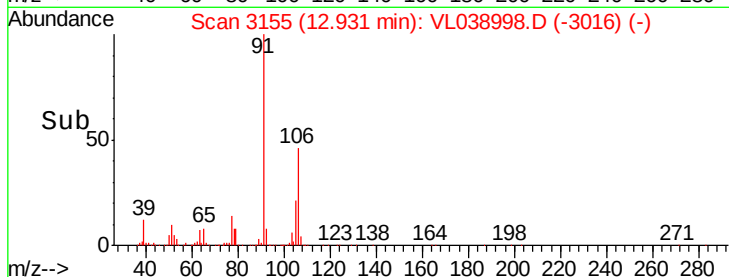
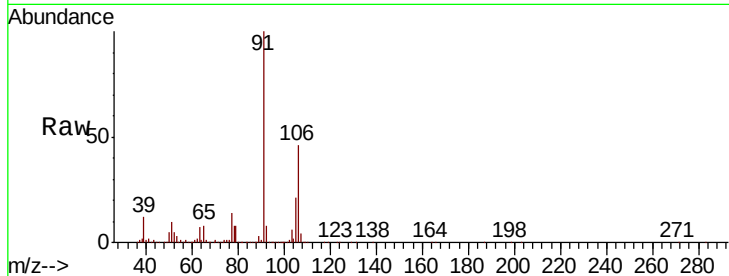


#59
m/p-Xylene
Concen: 12.964 ppbv
RT: 12.93
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1DL
Acq: 9 May 2022 22:22

Tot Ion:
Ion Ratio
91 100
106 47.

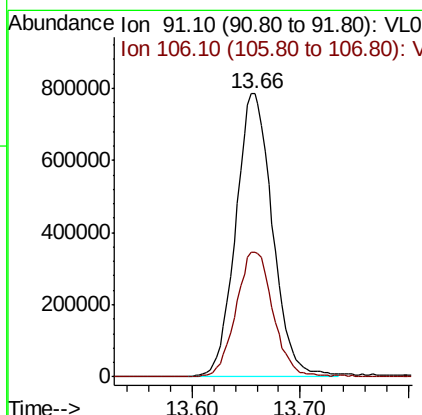
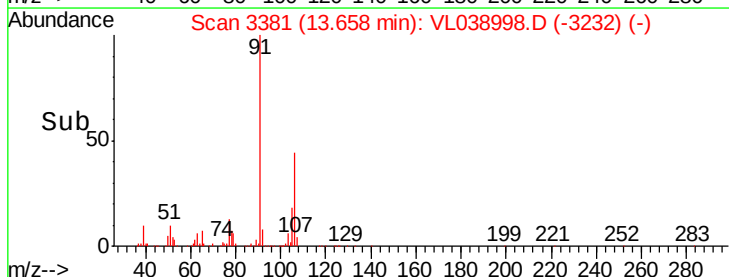
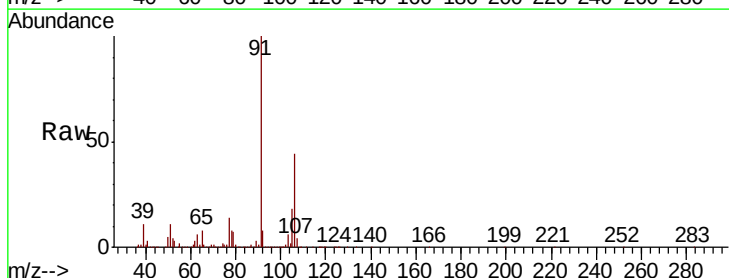
Manual Integrations
APPROVED

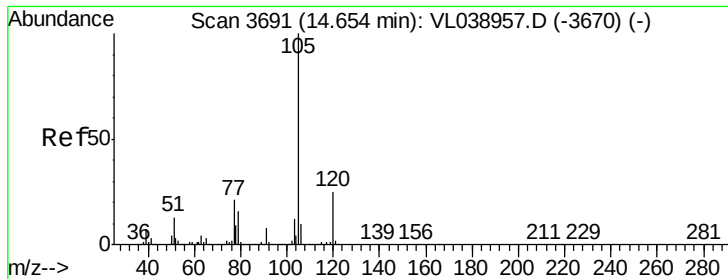
Reviewed By :Semsettin Yesilyurt 05/10/2022
Supervised By :Mahesh Dadoda 05/11/2022



#60
o-Xylene
Concen: 5.154 ppbv
RT: 13.66 min Scan# 3381
Delta R.T. -0.02 min
Lab File: VL038998.D
Acq: 9 May 2022 22:22

Tgt Ion: 91 Resp: 1852467
Ion Ratio Lower Upper
91 100
106 44.6 22.2 66.6





#62

Isopropylbenzene

Concen: 0.360 ppbv

RT: 14.63

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 9 May 2022 22:22

Tot Ion:1

Ion Ratio

105 100

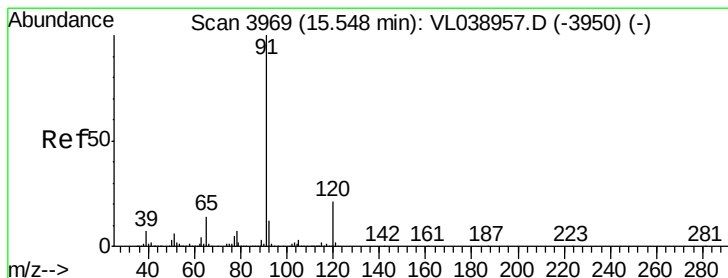
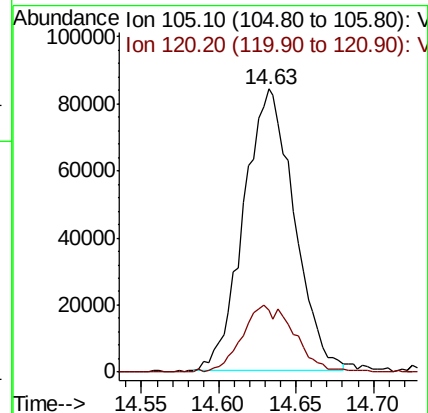
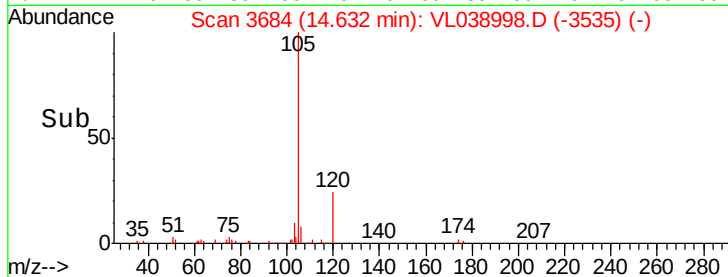
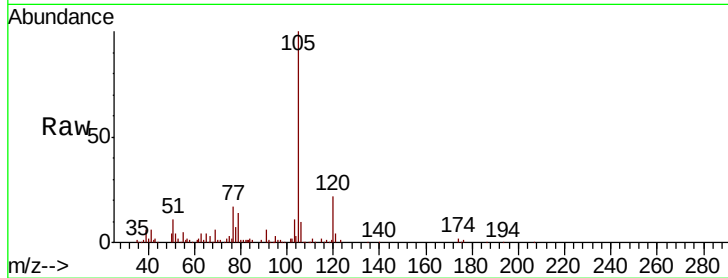
120 24.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#64

n-propylbenzene

Concen: 0.690 ppbv

RT: 15.53 min Scan# 3964

Delta R.T. -0.02 min

Lab File: VL038998.D

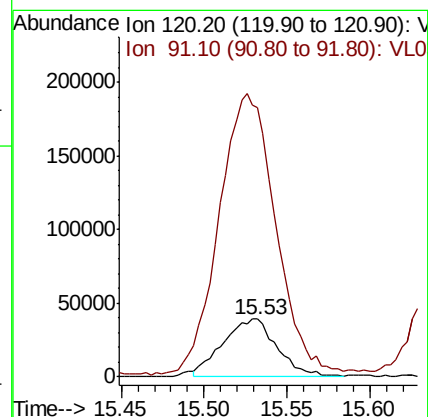
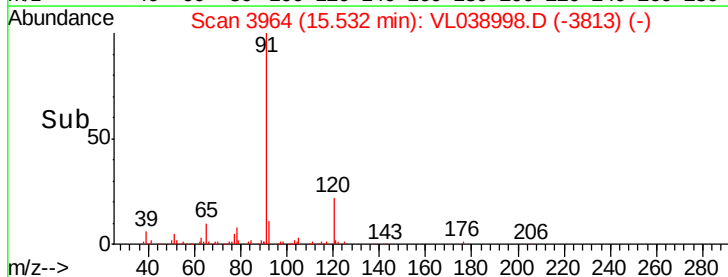
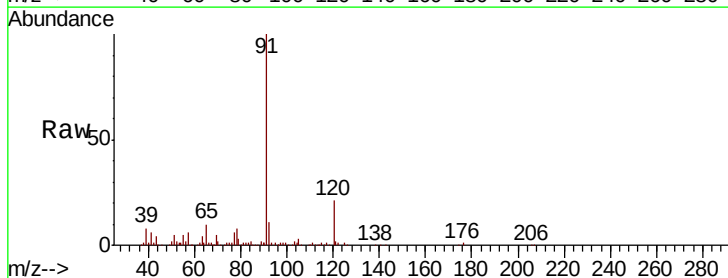
Acq: 9 May 2022 22:22

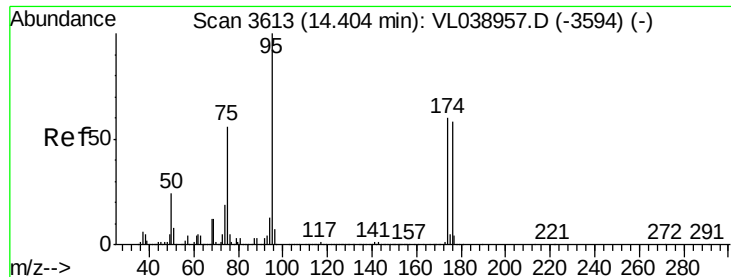
Tgt Ion:120 Resp: 87625

Ion Ratio Lower Upper

120 100

91 514.2 400.6 601.0



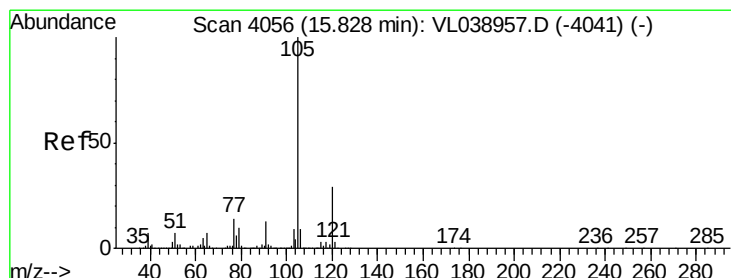
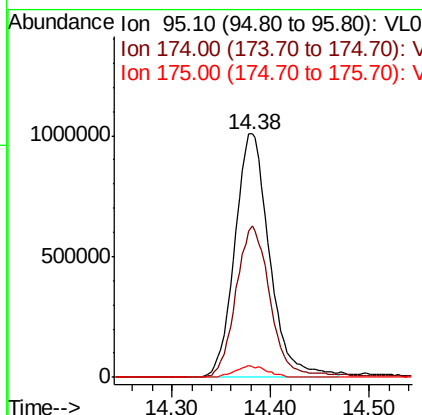
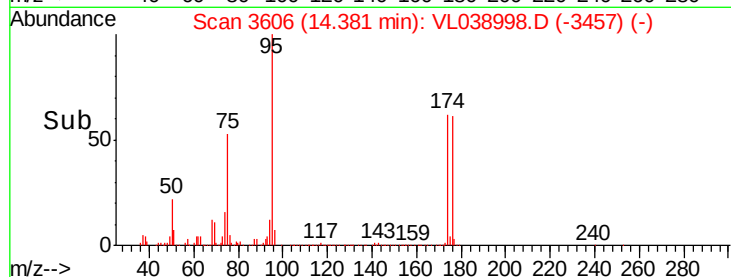
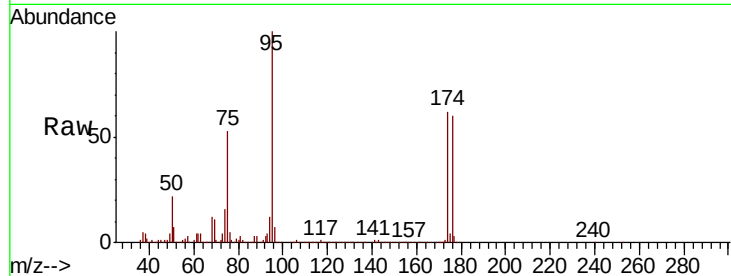


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.963 ppbv
 RT: 14.38 min
 Delta R.T.: 0.02 min
 Lab File: VL038998.D
 Acq: 9 May 2022 22:22

Manual Integrations
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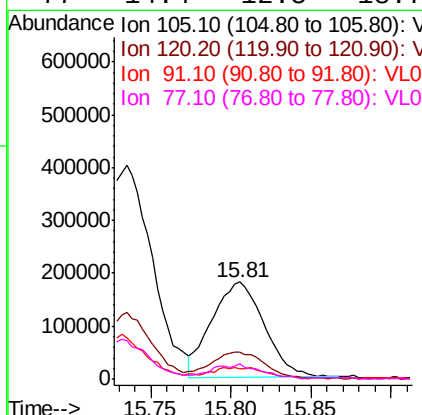
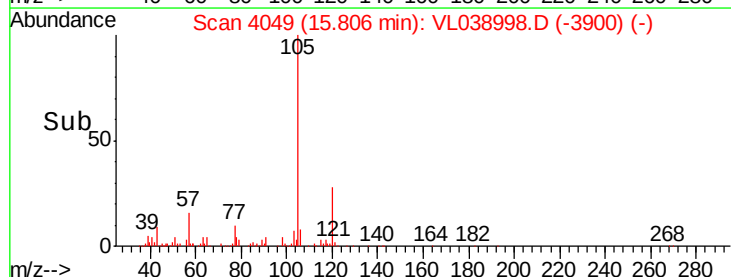
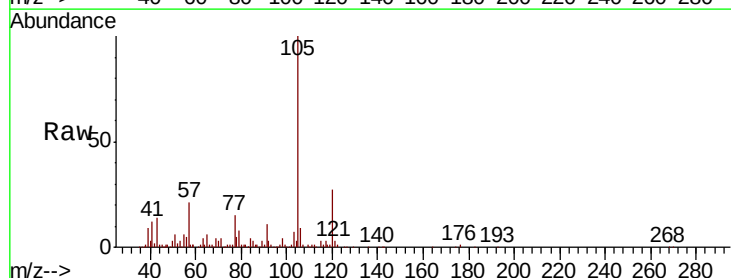
Reviewed By : Semsettin Yesilyurt 05/10/2022
 Supervised By : Mahesh Dadoda 05/11/2022

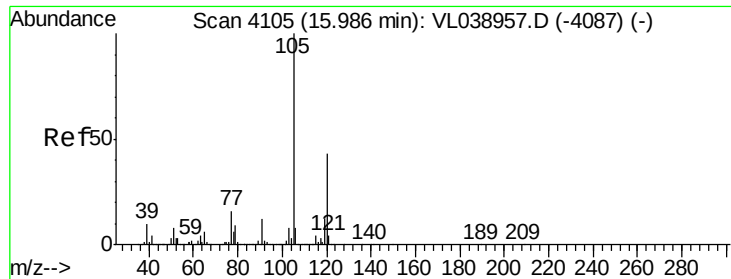
Tot Ion:
 Ion Ratio
 95 100
 174 63.1
 175 4.1



#72
 4-Ethyltoluene
 Concen: 0.986 ppbv
 RT: 15.81 min Scan# 4049
 Delta R.T.: -0.02 min
 Lab File: VL038998.D
 Acq: 9 May 2022 22:22

Tgt Ion: 105 Resp: 403941
 Ion Ratio Lower Upper
 105 100
 120 28.7 23.4 35.0
 91 12.6 10.6 16.0
 77 14.4 12.5 18.7





#73

1,3,5-Trimethylbenzene

Concen: 0.773 ppbv

RT: 15.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV1DL

Acq: 9 May 2022 22:22

Tot Ion:1

Ion Rati

105 100

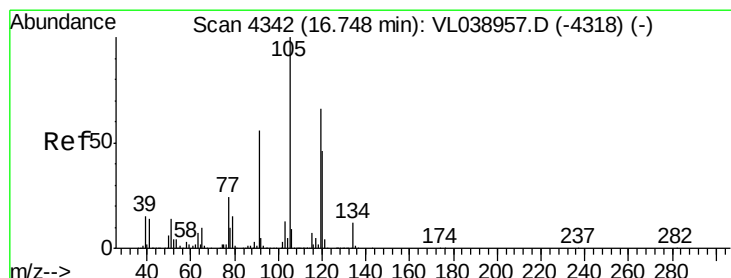
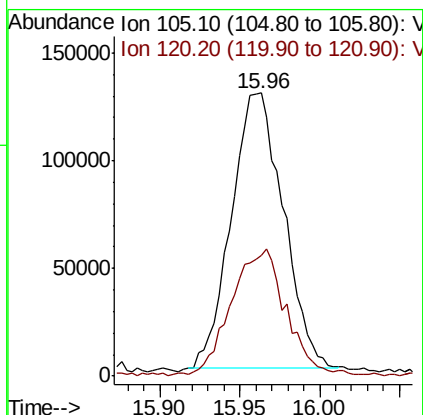
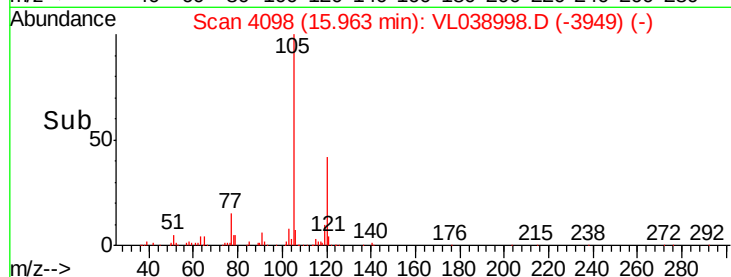
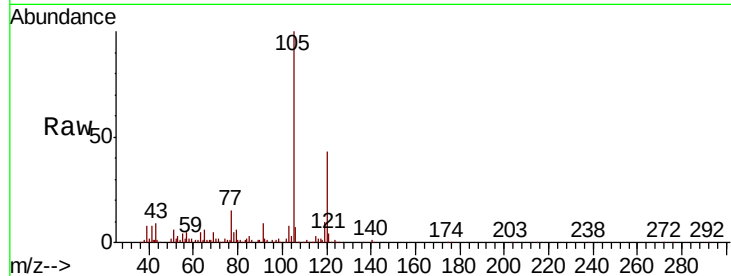
120 43.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/10/2022

Supervised By :Mahesh Dadoda 05/11/2022



#74

1,2,4-Trimethylbenzene

Concen: 2.286 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. -0.02 min

Lab File: VL038998.D

Acq: 9 May 2022 22:22

Tgt Ion:105 Resp: 923035

Ion Ratio Lower Upper

105 100

120 41.3 36.9 55.3

91 9.9 45.0 67.4#

77 13.3 19.2 28.8#

