

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040700.D
 Acq On : 18 Sep 2023 15:43
 Operator : SY/MD
 Sample : 04402-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

Quant Time: Sep 19 05:18:57 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	979359	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.674	114	2672092	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.484	117	2173865	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.796	95	1648860	9.817	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	108544	0.503	ppbv	92
3) Chlorodifluoromethane	2.697	51	55957m	0.351	ppbv	
4) Chloromethane	2.835	50	37052	0.607	ppbv #	88
9) Propene	2.723	41	61183m	1.331	ppbv	
10) Heptane	7.600	43	25068m	0.242	ppbv	
11) Trichlorofluoromethane	3.587	101	46952	0.248	ppbv	92
13) Ethanol	3.263	45	238977	17.566	ppbv	95
15) Acetone	3.491	43	904832m	7.004	ppbv	
19) Isopropyl Alcohol	3.607	45	132768	1.706	ppbv #	77
20) Methylene Chloride	3.954	84	384089	5.524	ppbv	96
26) Hexane	5.237	57	654915	6.648	ppbv #	39
29) Chloroform	5.298	83	19152m	0.113	ppbv	
30) Cyclohexane	6.626	84	11960m	0.161	ppbv	
34) 2-Butanone	4.819	43	63401	0.472	ppbv	92
35) Carbon Tetrachloride	6.517	117	12655m	0.069	ppbv	
36) Benzene	6.388	78	121541	0.614	ppbv	93
44) 2,2,4-Trimethylpentane	7.346	57	272454	0.865	ppbv #	89
53) Toluene	9.240	91	596369	2.855	ppbv	99
59) m/p-Xylene	12.368	91	51939m	0.223	ppbv	
60) o-Xylene	13.069	91	23447m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	16.127	105	38497m	0.141	ppbv	

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

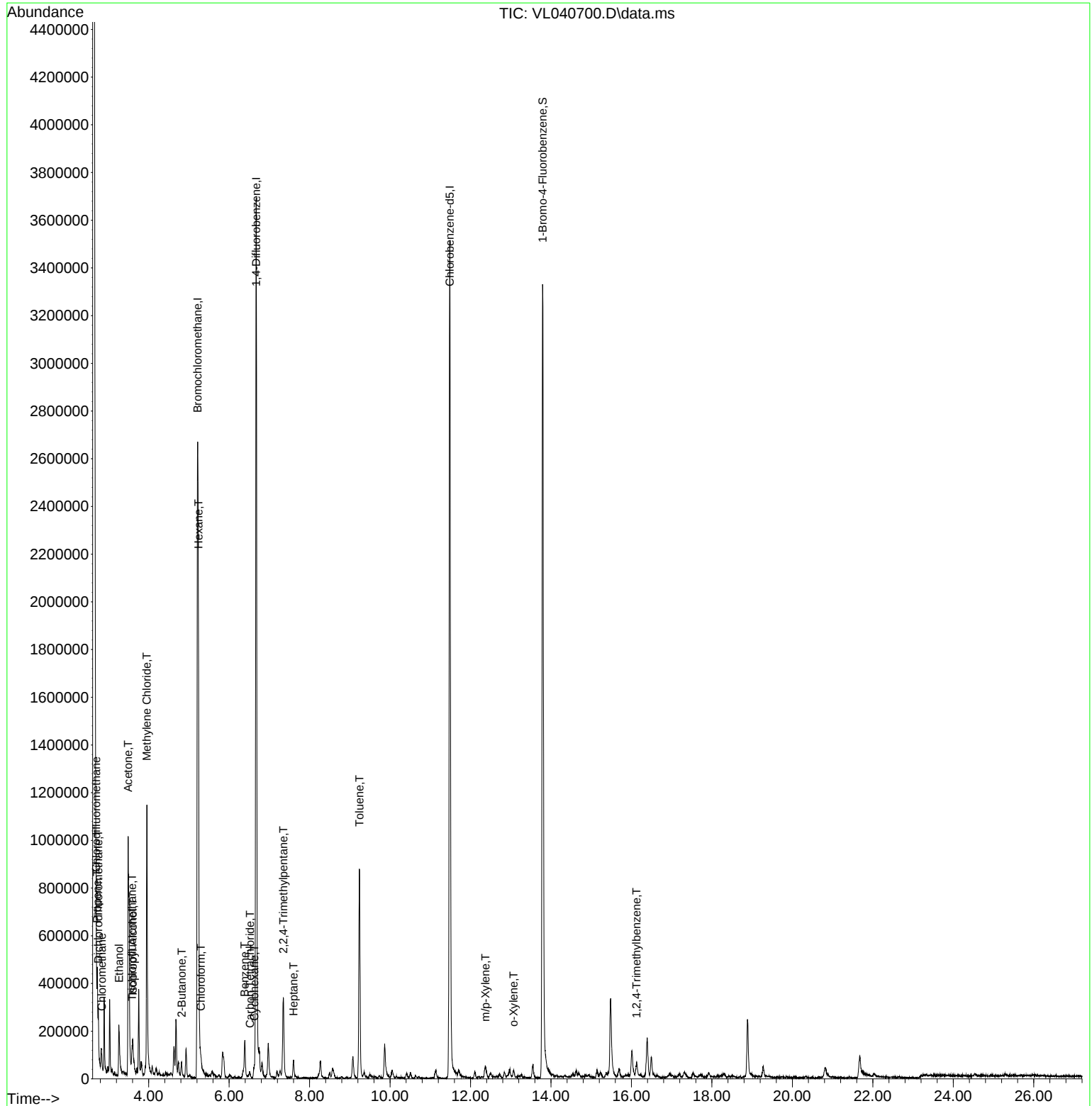
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
Data File : VL040700.D
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Quant Time: Sep 19 05:18:57 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

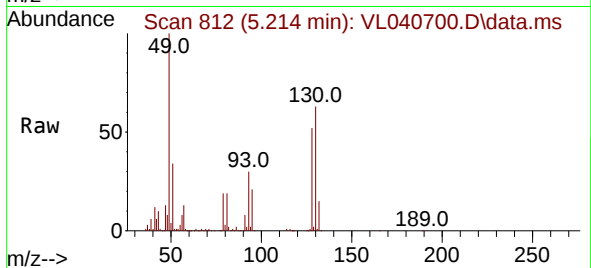
Reviewed By : Semsettin Yesilyurt 09/19/2023
Supervised By : Mahesh Dadoda 09/19/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

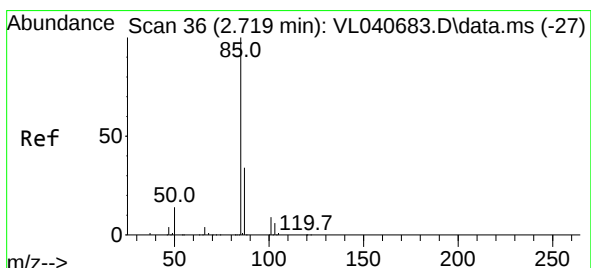
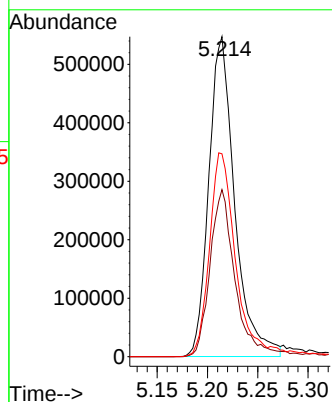
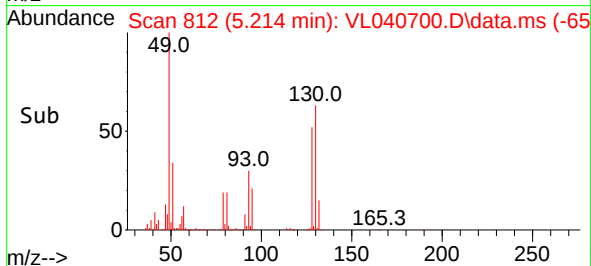
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



Tgt Ion: 49 Resp: 979359
Ion Ratio Lower Upper
49 100
128 52.3 25.4 76.0
130 66.8 32.3 96.8

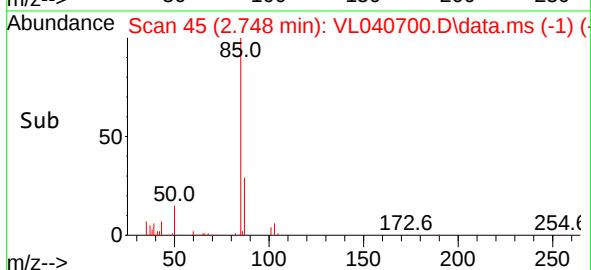
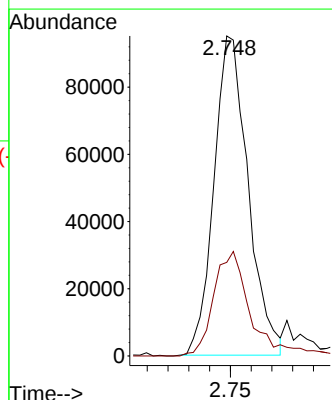
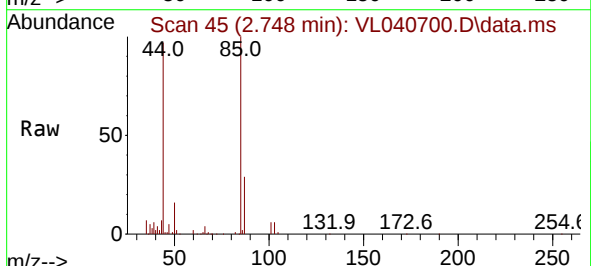
Manual Integrations
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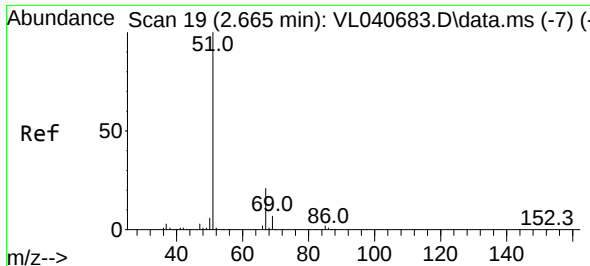
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#2
Dichlorodifluoromethane
Concen: 0.503 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.016 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

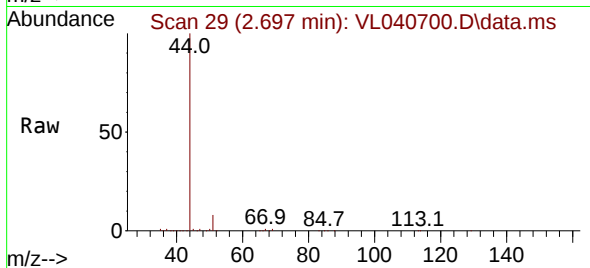
Tgt Ion: 85 Resp: 108544
Ion Ratio Lower Upper
85 100
87 29.3 27.2 40.8





#3
Chlorodifluoromethane
Concen: 0.351 ppbv m
RT: 2.697 min Scan# 29
Delta R.T. 0.019 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

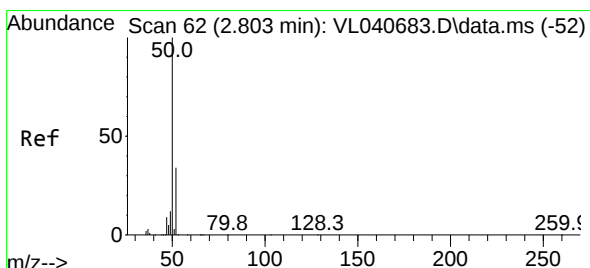
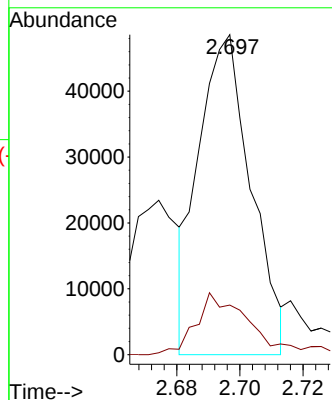
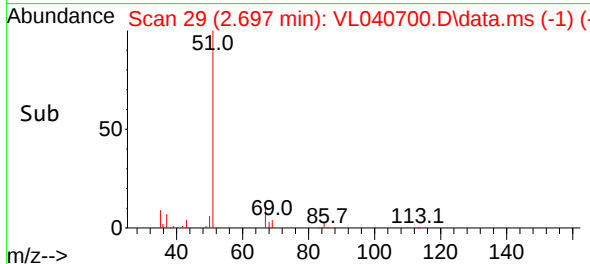
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



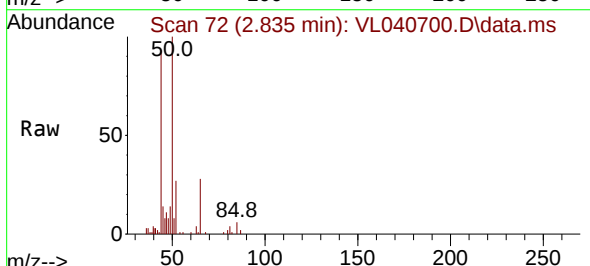
Tgt Ion: 51 Resp: 5595
Ion Ratio Lower Upper
51 100
67 1.2 16.7 25.1

Manual Integrations
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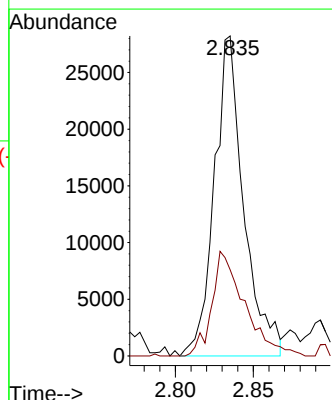
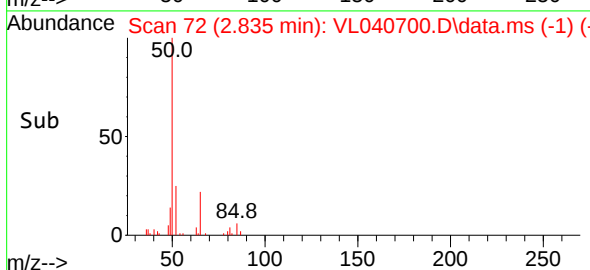
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

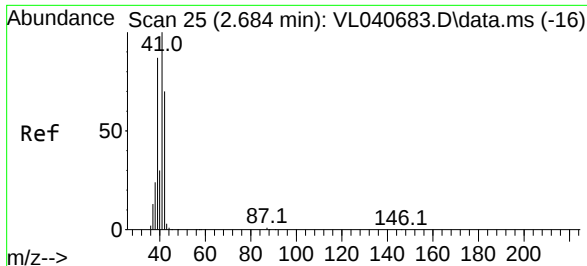


#4
Chloromethane
Concen: 0.607 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.019 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43



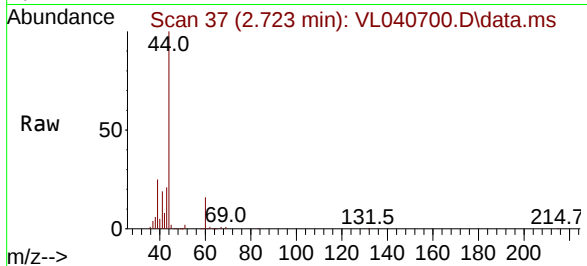
Tgt Ion: 50 Resp: 37052
Ion Ratio Lower Upper
50 100
52 27.0 27.1 40.7





#9
 Propene
 Concen: 1.331 ppbv m
 RT: 2.723 min Scan# 31
 Delta R.T. 0.026 min
 Lab File: VL040700.D
 Acq: 18 Sep 2023 15:43

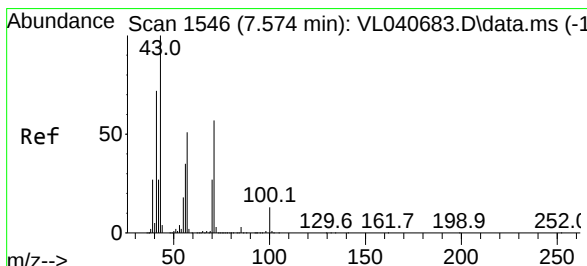
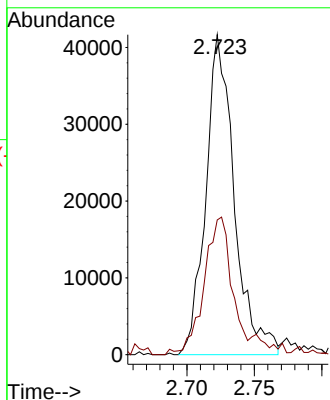
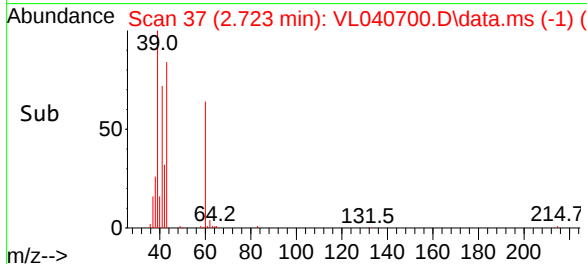
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-1DUP



Tgt Ion: 41 Resp: 6118
 Ion Ratio Lower Upper
 41 100
 42 90.7 56.7 85.1

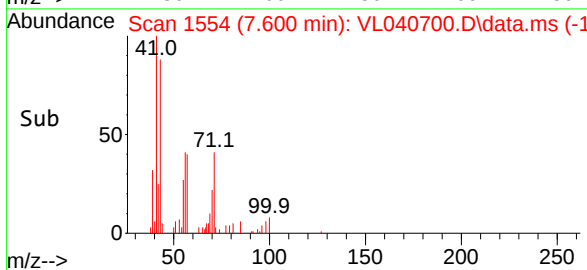
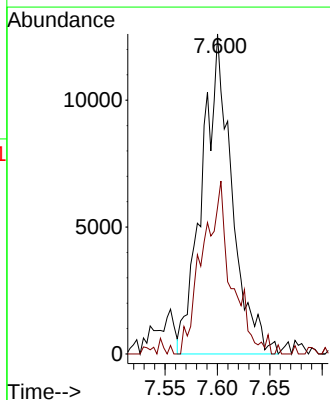
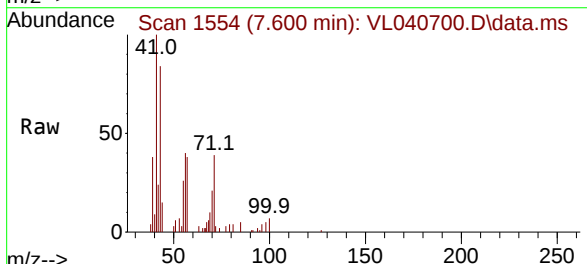
Manual Integrations
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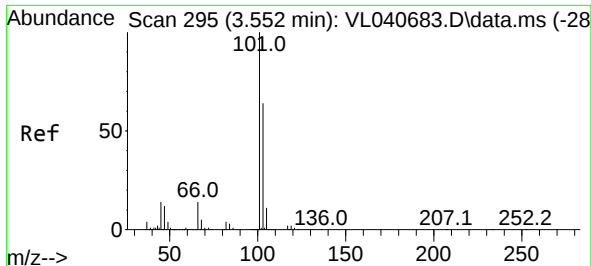
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#10
 Heptane
 Concen: 0.242 ppbv m
 RT: 7.600 min Scan# 1554
 Delta R.T. 0.013 min
 Lab File: VL040700.D
 Acq: 18 Sep 2023 15:43

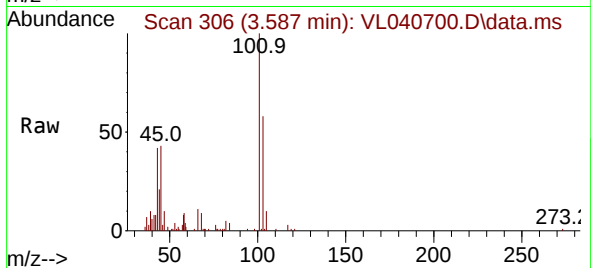
Tgt Ion: 43 Resp: 25068
 Ion Ratio Lower Upper
 43 100
 57 52.9 41.8 62.6





#11
Trichlorofluoromethane
Concen: 0.248 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.019 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

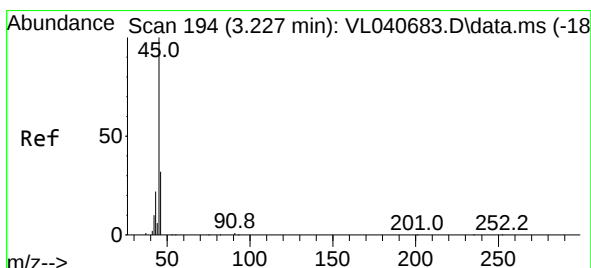
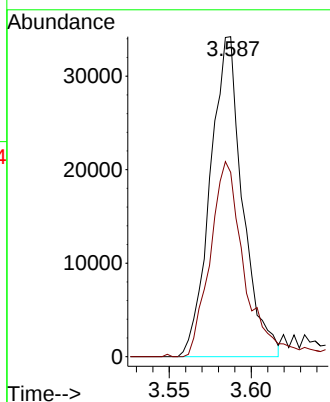
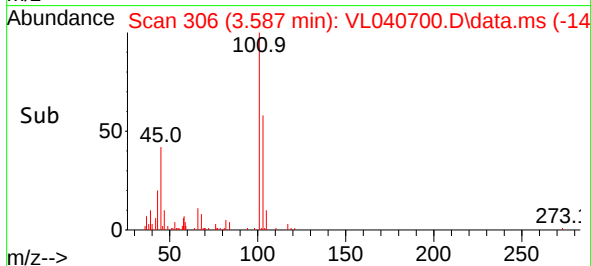
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



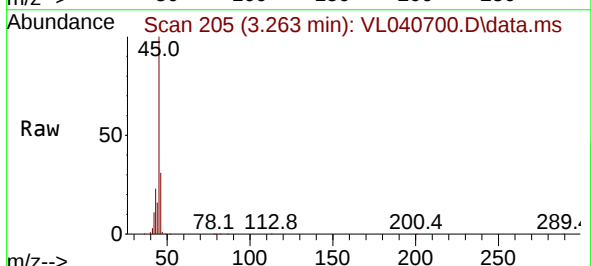
Tgt Ion:101 Resp: 46952
Ion Ratio Lower Upper
101 100
103 57.6 51.3 76.9

Manual Integrations
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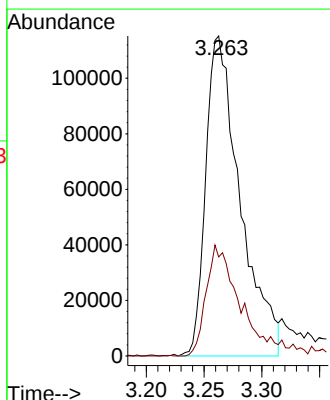
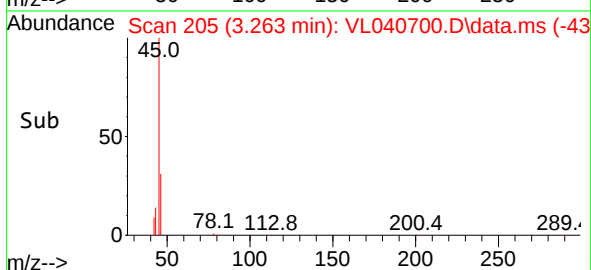
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

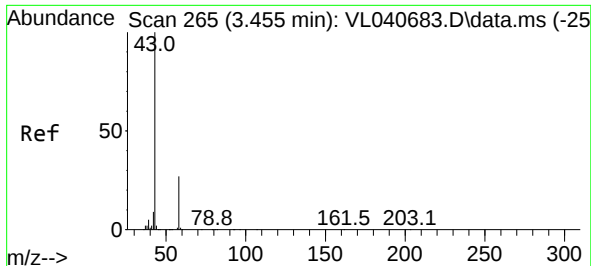


#13
Ethanol
Concen: 17.566 ppbv
RT: 3.263 min Scan# 205
Delta R.T. 0.019 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43



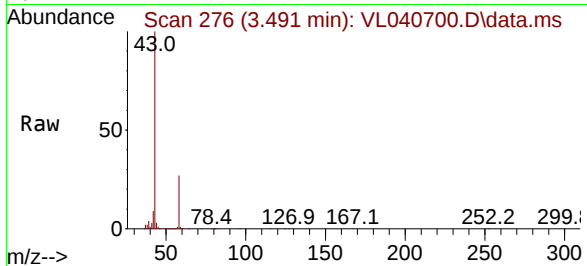
Tgt Ion: 45 Resp: 238977
Ion Ratio Lower Upper
45 100
46 35.4 15.2 61.0





#15
Acetone
Concen: 7.004 ppbv m
RT: 3.491 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

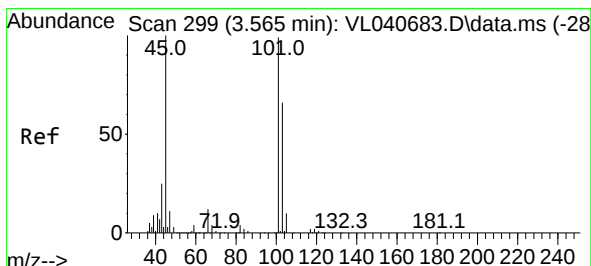
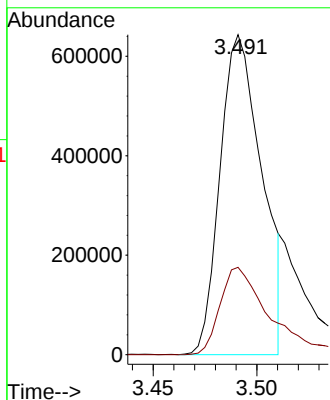
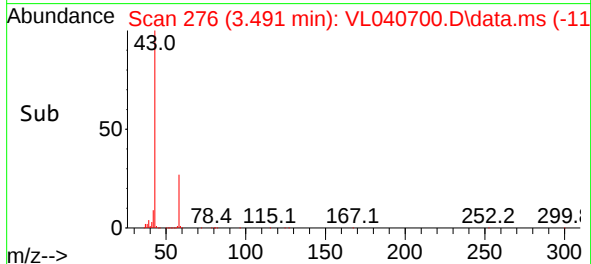
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



Tgt Ion: 43 Resp: 904832
Ion Ratio Lower Upper
43 100
58 33.8 22.6 34.0

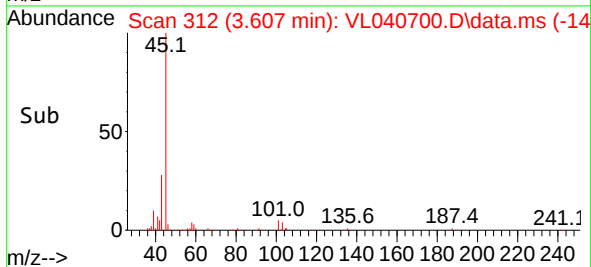
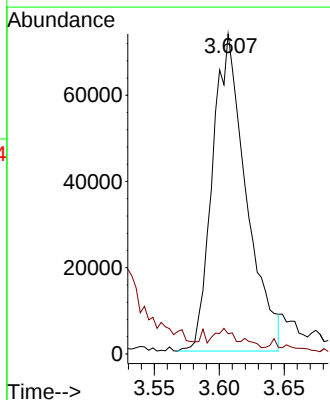
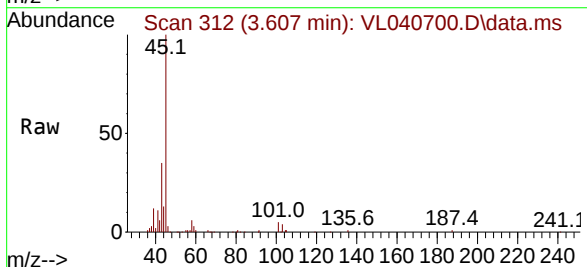
Manual Integrations
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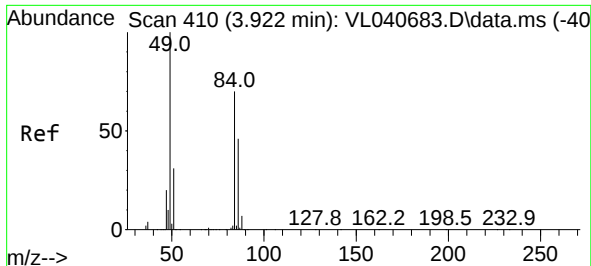
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#19
Isopropyl Alcohol
Concen: 1.706 ppbv
RT: 3.607 min Scan# 312
Delta R.T. 0.029 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

Tgt Ion: 45 Resp: 132768
Ion Ratio Lower Upper
45 100
58 10.3 1.9 2.9#





#20

Methylene Chloride

Concen: 5.524 ppbv

RT: 3.954 min Scan# 410

Delta R.T. 0.016 min

Lab File: VL040700.D

Acq: 18 Sep 2023 15:43

Instrument :

MSVOA_L

ClientSampleId :

ST-1DUP

Tgt Ion: 84 Resp: 384089

Ion Ratio Lower Upper

84 100

49 138.5 114.4 171.6

51 45.2 35.5 53.3

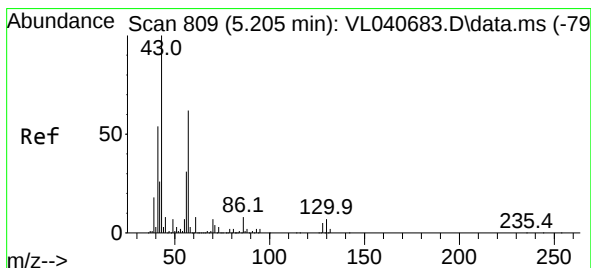
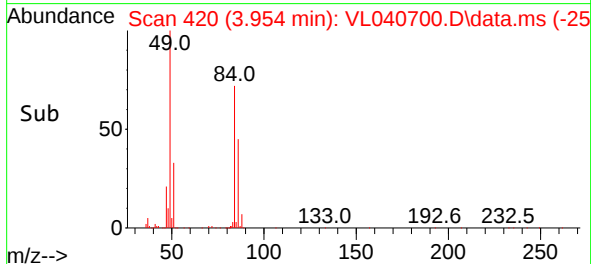
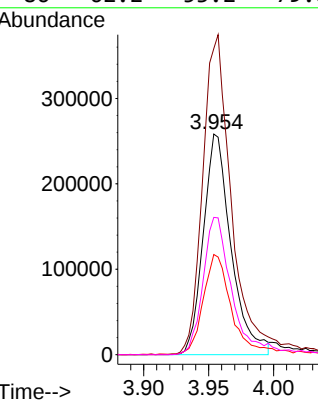
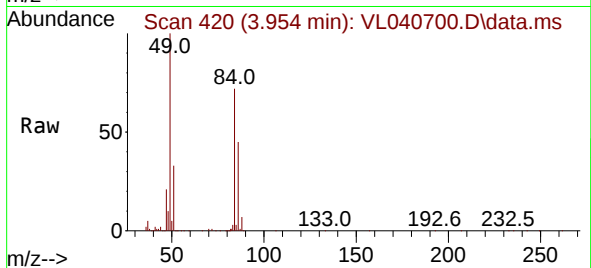
86 62.2 53.2 79.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#26

Hexane

Concen: 6.648 ppbv

RT: 5.237 min Scan# 819

Delta R.T. 0.016 min

Lab File: VL040700.D

Acq: 18 Sep 2023 15:43

Tgt Ion: 57 Resp: 654915

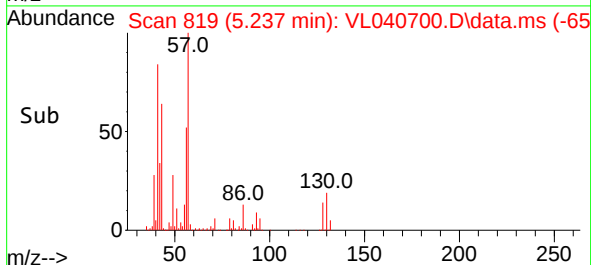
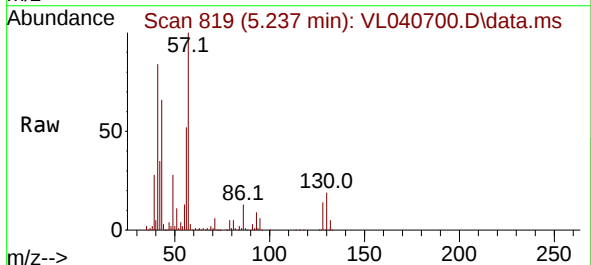
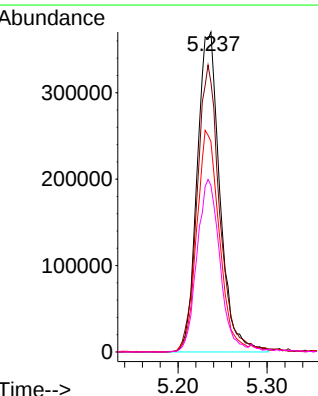
Ion Ratio Lower Upper

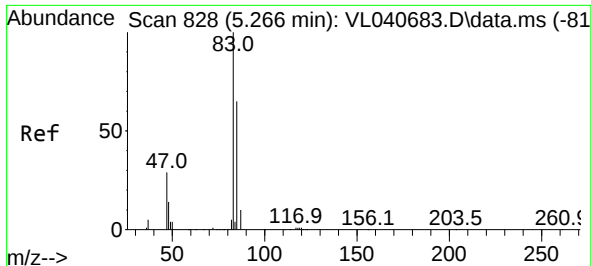
57 100

41 90.3 75.2 112.8

43 69.9 185.6 278.4#

56 55.8 43.8 65.8





#29

Chloroform

Concen: 0.113 ppbv m

RT: 5.298 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL040700.D

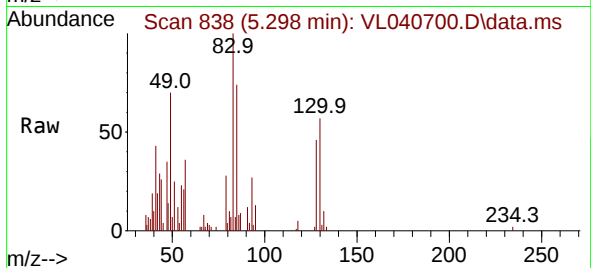
Acq: 18 Sep 2023 15:43

Instrument :

MSVOA_L

ClientSampleId :

ST-1DUP

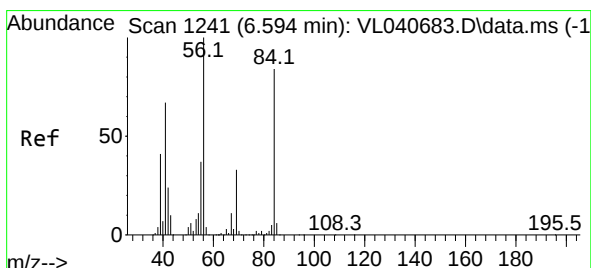
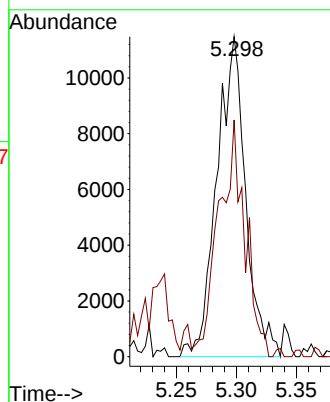
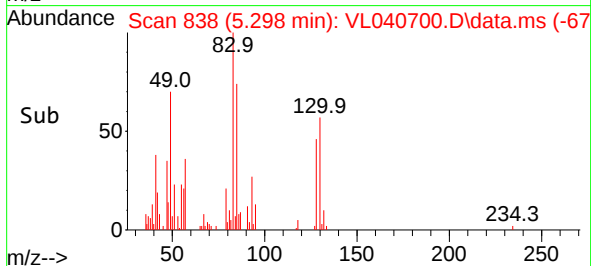


Tgt Ion:	83	Resp:	1915
Ion Ratio	100	Lower	Upper
83	100		
85	73.9	51.8	77.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#30

Cyclohexane

Concen: 0.161 ppbv m

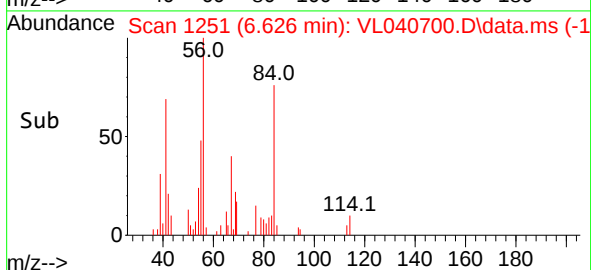
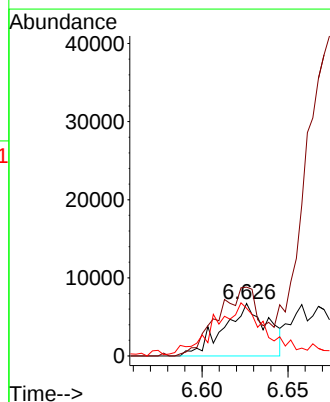
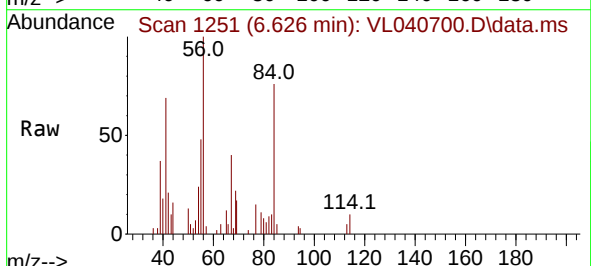
RT: 6.626 min Scan# 1251

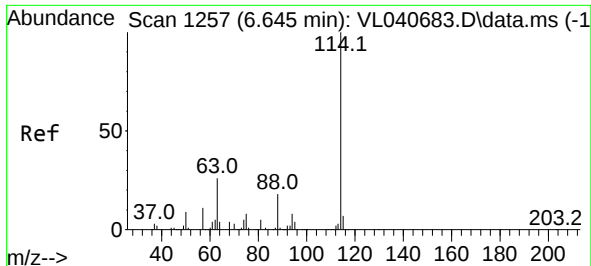
Delta R.T. 0.016 min

Lab File: VL040700.D

Acq: 18 Sep 2023 15:43

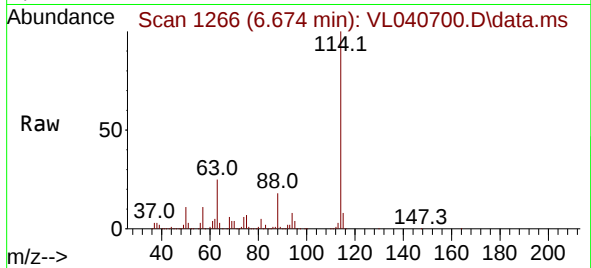
Tgt Ion:	84	Resp:	11960
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	103.2	154.8#
41	132.9	65.5	98.3#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.674 min Scan# 114
Delta R.T. 0.013 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

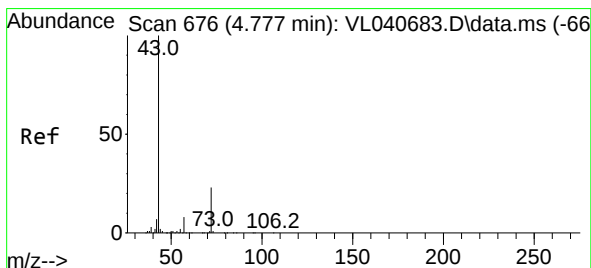
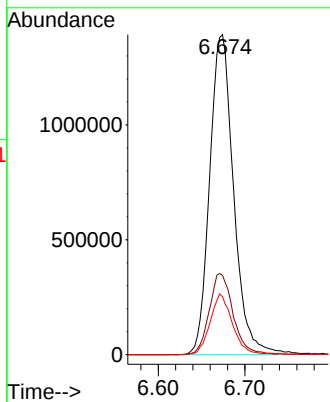
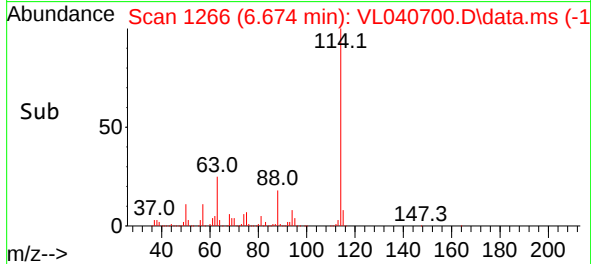
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



Tgt Ion:114 Resp: 2672092
Ion Ratio Lower Upper
114 100
63 25.5 21.1 31.7
88 17.9 14.5 21.7

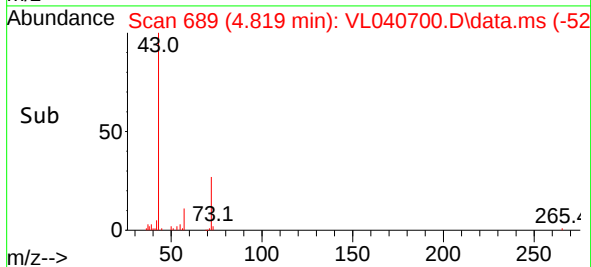
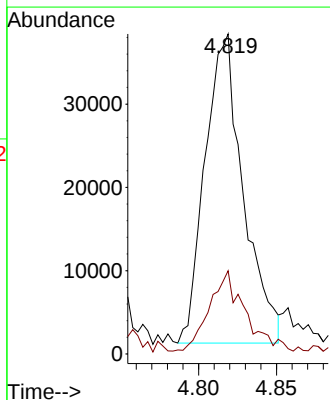
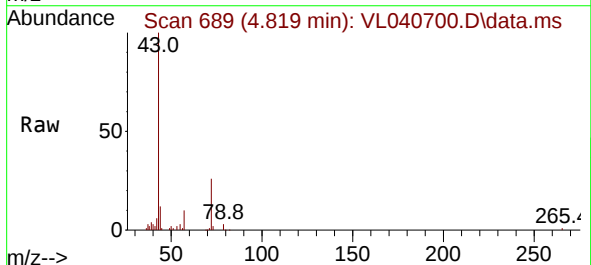
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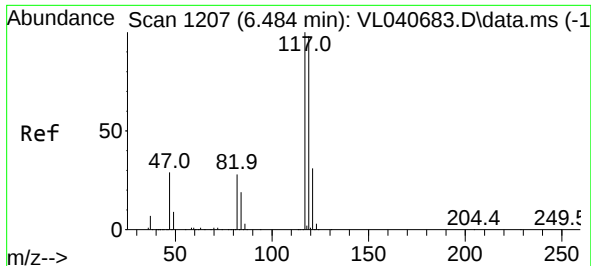
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#34
2-Butanone
Concen: 0.472 ppbv
RT: 4.819 min Scan# 689
Delta R.T. 0.029 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

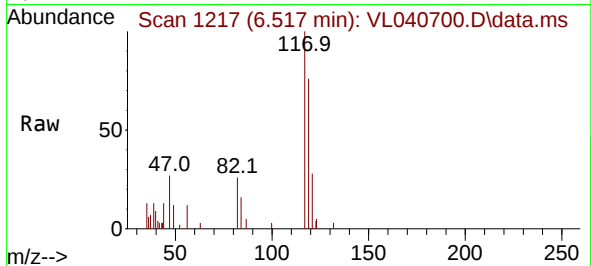
Tgt Ion: 43 Resp: 63401
Ion Ratio Lower Upper
43 100
72 27.1 18.6 27.8





#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 6.517 min Scan# 1177
Delta R.T. 0.013 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

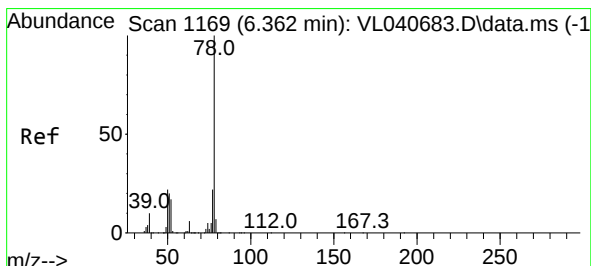
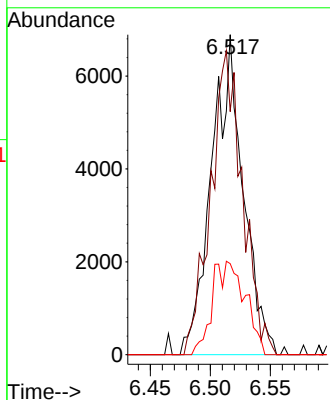
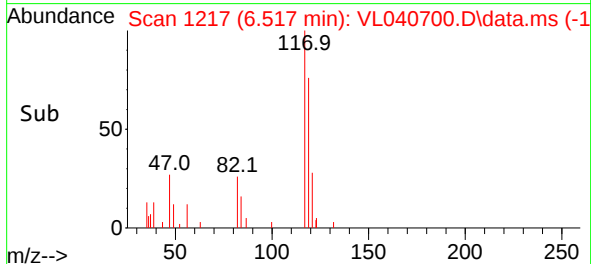
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



Tgt Ion: 117 Resp: 1265
Ion Ratio Lower Upper
117 100
119 75.9 78.6 117.8
121 28.4 24.7 37.1

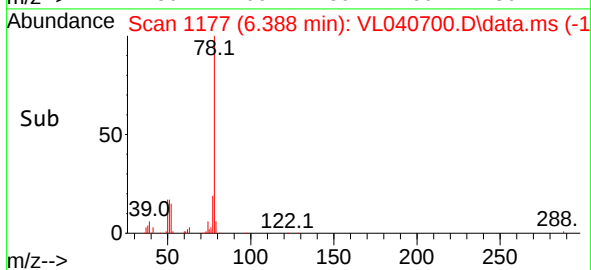
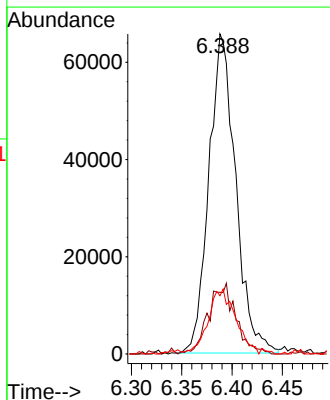
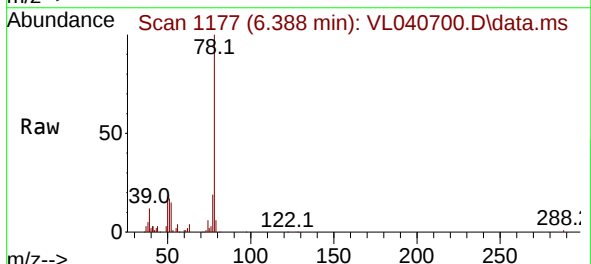
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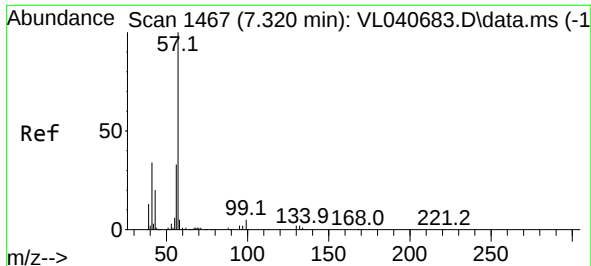
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#36
Benzene
Concen: 0.614 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. 0.007 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

Tgt Ion: 78 Resp: 121541
Ion Ratio Lower Upper
78 100
77 19.3 17.9 26.9
50 18.3 17.3 25.9





#44

2,2,4-Trimethylpentane

Concen: 0.865 ppbv

RT: 7.346 min Scan# 1467

Delta R.T. 0.010 min

Lab File: VL040700.D

Acq: 18 Sep 2023 15:43

Instrument :

MSVOA_L

ClientSampleId :

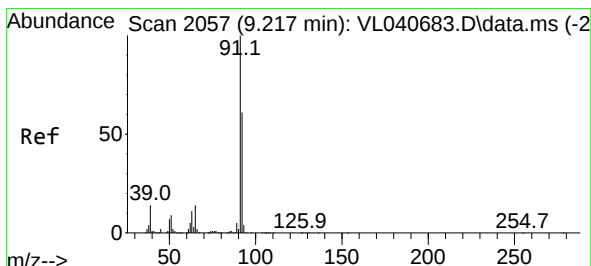
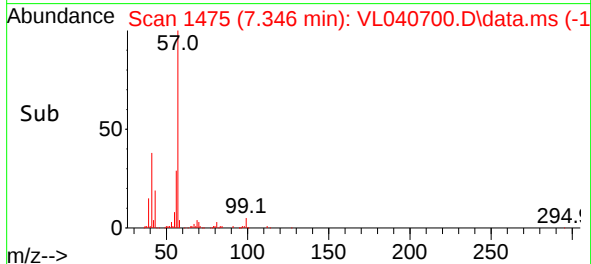
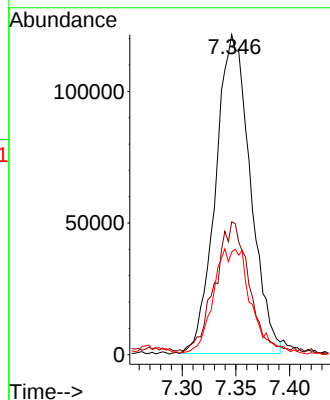
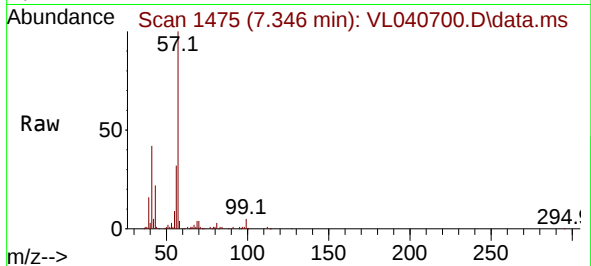
ST-1DUP

Tgt Ion: 57 Resp: 272454
 Ion Ratio Lower Upper
 57 100
 41 43.2 28.5 42.7
 56 36.5 25.4 38.2

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Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#53

Toluene

Concen: 2.855 ppbv

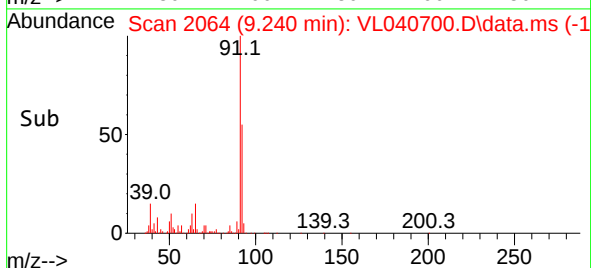
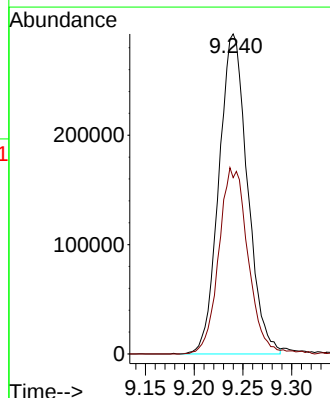
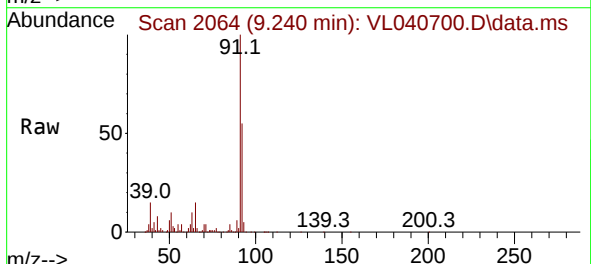
RT: 9.240 min Scan# 2064

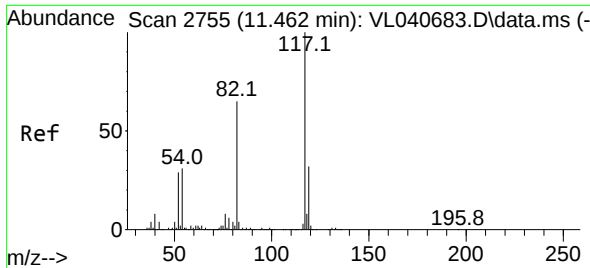
Delta R.T. 0.010 min

Lab File: VL040700.D

Acq: 18 Sep 2023 15:43

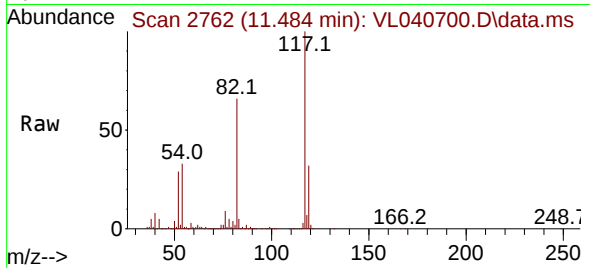
Tgt Ion: 91 Resp: 596369
 Ion Ratio Lower Upper
 91 100
 92 60.0 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 217386
Delta R.T. 0.007 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

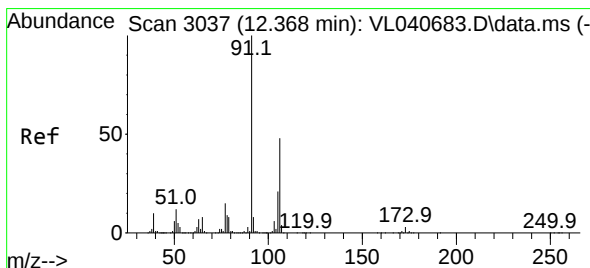
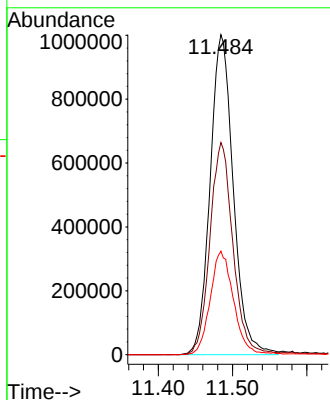
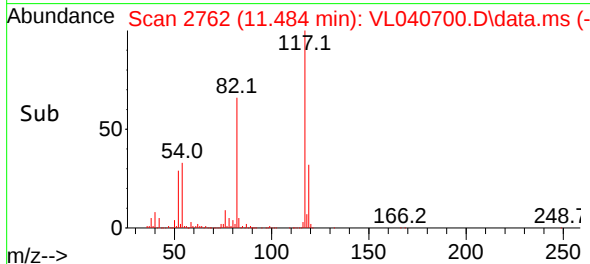
Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP



Tgt Ion:117 Resp: 217386
Ion Ratio Lower Upper
117 100
82 65.9 51.4 77.0
119 32.6 24.7 37.1

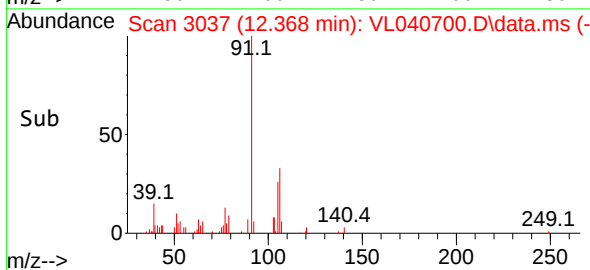
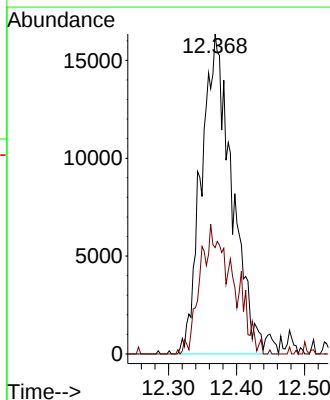
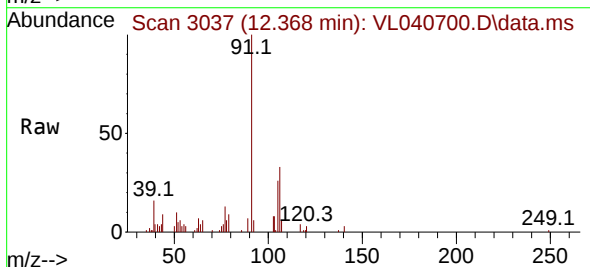
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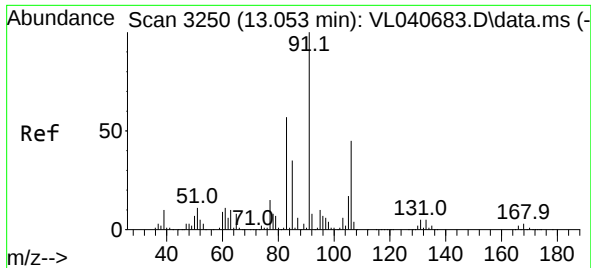
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#59
m/p-Xylene
Concen: 0.223 ppbv m
RT: 12.368 min Scan# 3037
Delta R.T. -0.013 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

Tgt Ion: 91 Resp: 51939
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2#





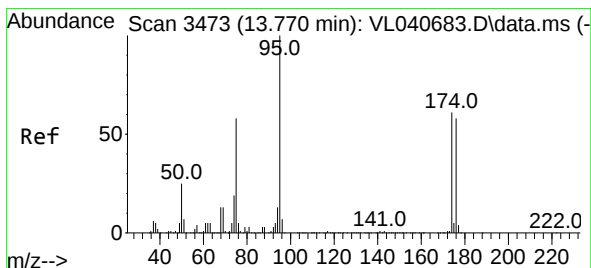
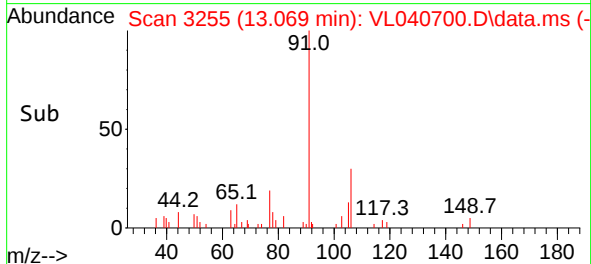
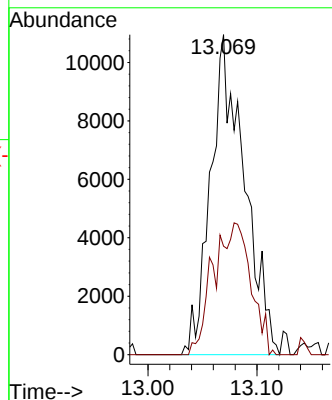
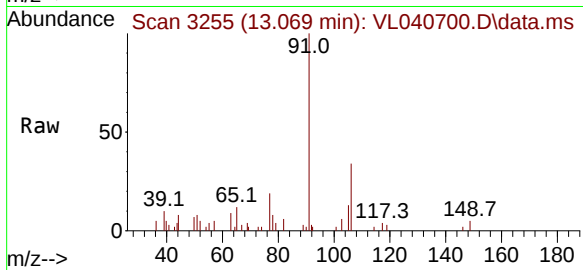
#60
o-Xylene
Concen: 0.106 ppbv m
RT: 13.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

Instrument :
MSVOA_L
ClientSampleId :
ST-1DUP

Tgt Ion: 91 Resp: 2344
Ion Ratio Lower Upper
91 100
106 46.3 22.3 66.9

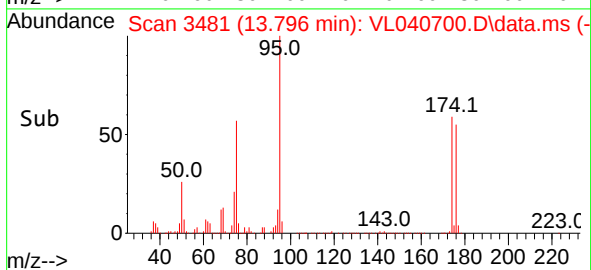
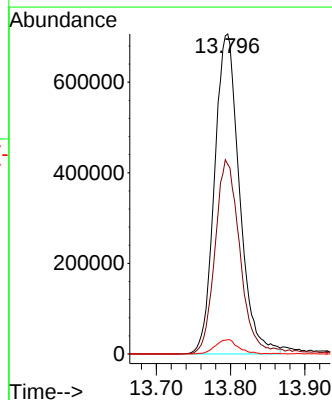
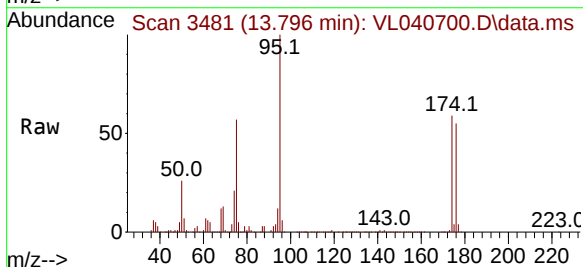
Manual Integrations
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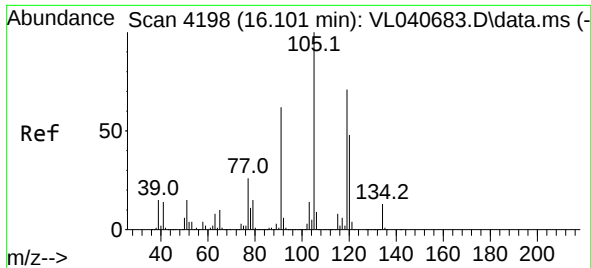
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.817 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. 0.010 min
Lab File: VL040700.D
Acq: 18 Sep 2023 15:43

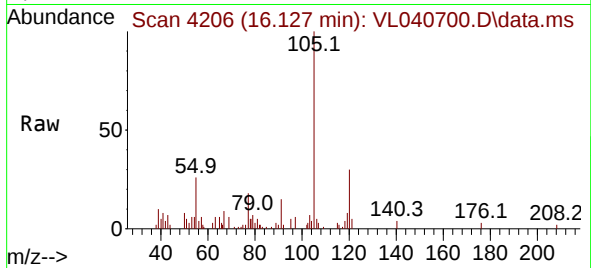
Tgt Ion: 95 Resp: 1648860
Ion Ratio Lower Upper
95 100
174 62.5 48.9 73.3
175 4.2 3.5 5.3





#74
 1,2,4-Trimethylbenzene
 Concen: 0.141 ppbv m
 RT: 16.127 min Scan# 4198
 Delta R.T. 0.010 min
 Lab File: VL040700.D
 Acq: 18 Sep 2023 15:43

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-1DUP



Tgt Ion:	105	Resp:	3849
Ion Ratio	Lower	Upper	
105	100		
120	30.2	38.6	57.8
91	15.5	50.0	75.0
77	18.4	20.6	31.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

