

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040726.D
 Acq On : 27 Sep 2023 14:07
 Operator : SY/MD
 Sample : 04616-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023
 Supervised By :Mahesh Dadoda 09/28/2023

Quant Time: Sep 28 01:44:15 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	5.179	49	1263312	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.635	114	3505081	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.442	117	3038179	10.000	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.751 95 2297650 9.788 ppbv -0.04
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.729	85	27968	0.100	ppbv	92
3) Chlorodifluoromethane	2.677	51	18415m	0.089	ppbv	
4) Chloromethane	2.819	50	9407	0.119	ppbv #	85
9) Propene	2.710	41	37754	0.637	ppbv #	76
10) Heptane	7.561	43	17719m	0.133	ppbv	
11) Trichlorofluoromethane	3.555	101	15765	0.064	ppbv	85
13) Ethanol	3.234	45	492627	28.072	ppbv	99
15) Acetone	3.462	43	4211041	25.271	ppbv	95
17) tert-Butyl alcohol	3.883	59	69856	0.409	ppbv	100
19) Isopropyl Alcohol	3.574	45	452160	4.503	ppbv #	1
20) Methylene Chloride	3.928	84	982129	10.950	ppbv	97
26) Hexane	5.198	57	766580	6.032	ppbv #	37
27) Carbon Disulfide	4.118	76	50732	0.286	ppbv #	91
34) 2-Butanone	4.777	43	222744	1.264	ppbv	93
36) Benzene	6.356	78	30778	0.119	ppbv	97
41) Tetrahydrofuran	5.552	42	65817m	0.728	ppbv	
50) 4-Methyl-2-Pentanone	8.176	43	30687m	0.129	ppbv	
53) Toluene	9.201	91	184132	0.672	ppbv	99
58) Ethyl Benzene	12.063	91	64253	0.185	ppbv	94
59) m/p-Xylene	12.327	91	193314m	0.594	ppbv	
60) o-Xylene	13.034	91	58154m	0.187	ppbv	
61) Styrene	12.873	104	231426	1.780	ppbv	94
62) Isopropylbenzene	14.005	105	707563	1.511	ppbv	100
74) 1,2,4-Trimethylbenzene	16.082	105	54768	0.143	ppbv #	59

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

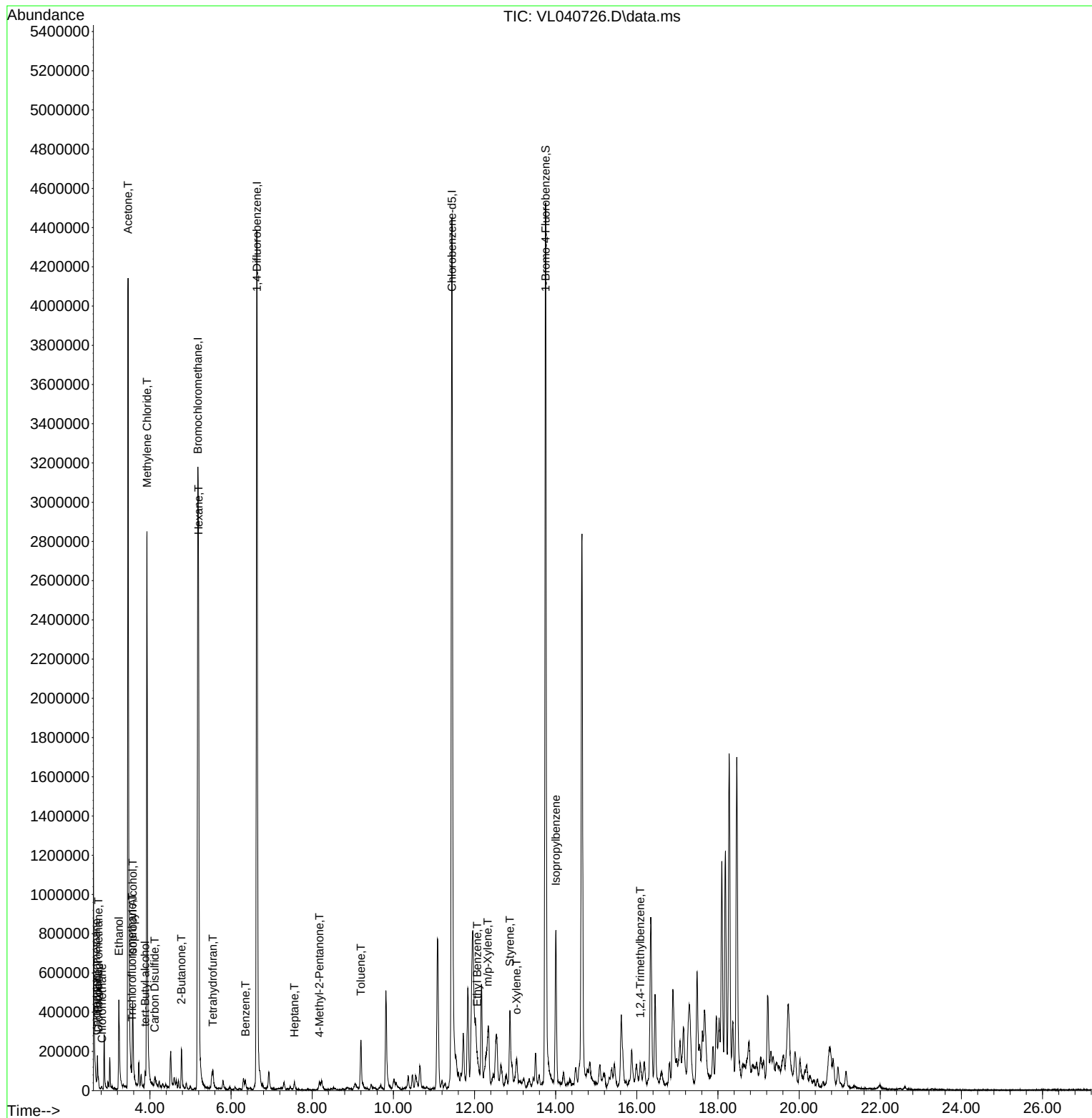
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
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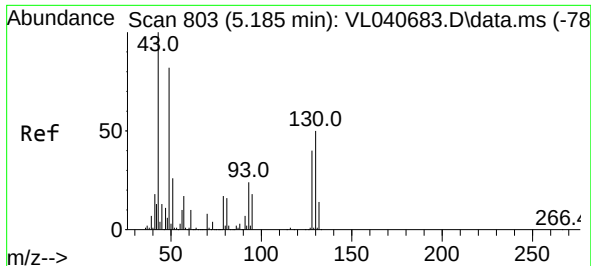
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Quant Time: Sep 28 01:44:15 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
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APPROVED

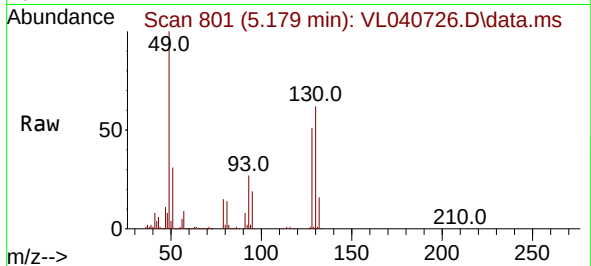
Reviewed By : Semsettin Yesilyurt 09/28/2023
Supervised By : Mahesh Dadoda 09/28/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.019 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

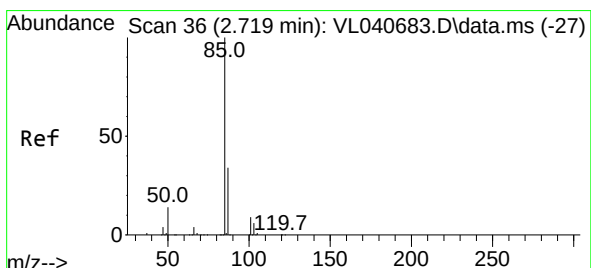
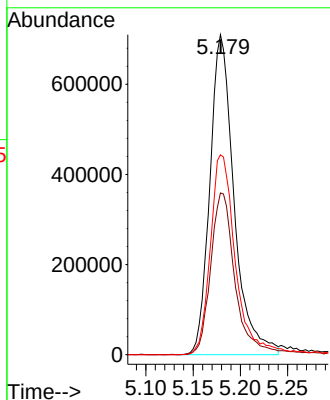
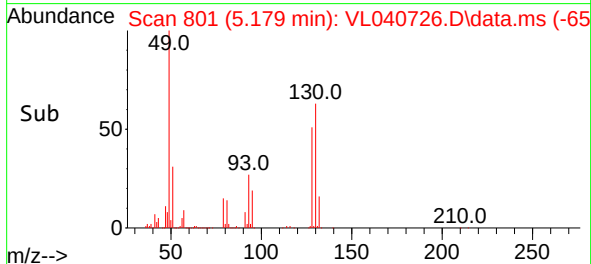
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL



Tgt Ion: 49 Resp: 126331
Ion Ratio Lower Upper
49 100
128 52.1 25.4 76.0
130 66.7 32.3 96.8

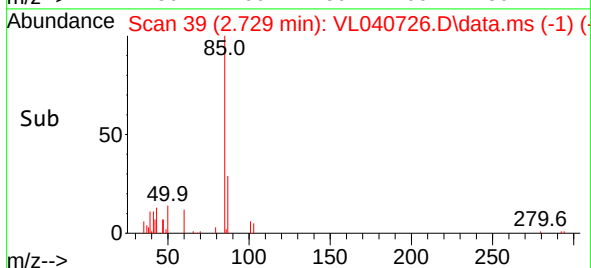
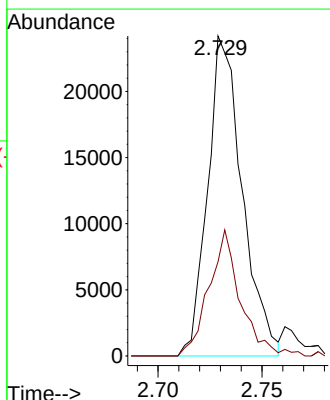
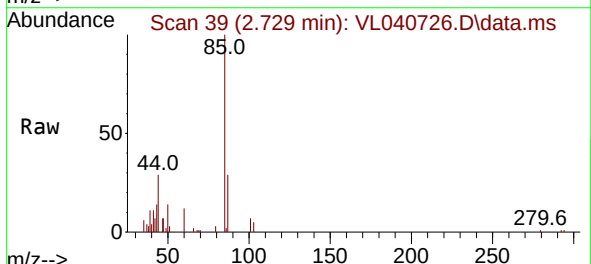
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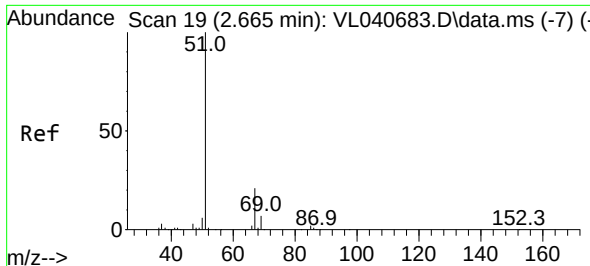
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#2
Dichlorodifluoromethane
Concen: 0.100 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.003 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 85 Resp: 27968
Ion Ratio Lower Upper
85 100
87 29.4 27.2 40.8





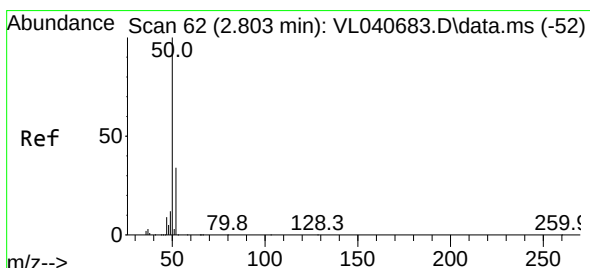
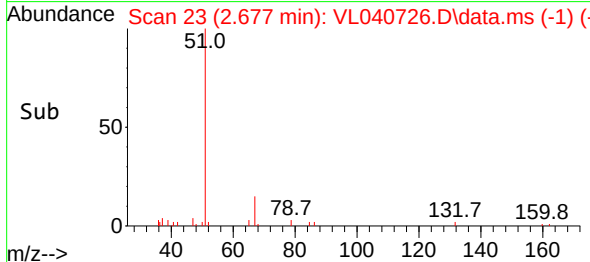
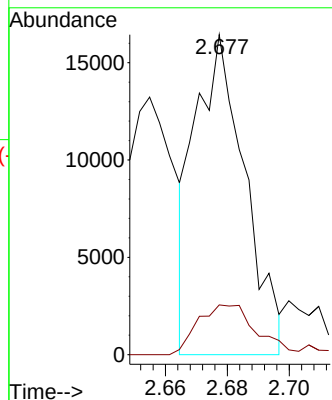
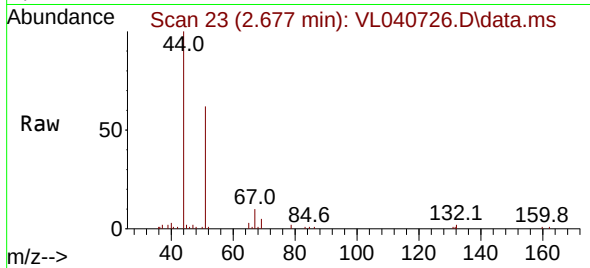
#3
Chlorodifluoromethane
Concen: 0.089 ppbv m
RT: 2.677 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Tgt Ion: 51 Resp: 1841
Ion Ratio Lower Upper
51 100
67 19.7 16.7 25.1

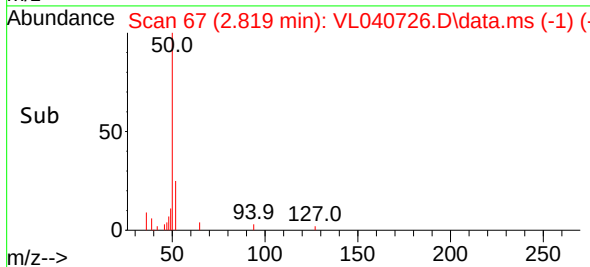
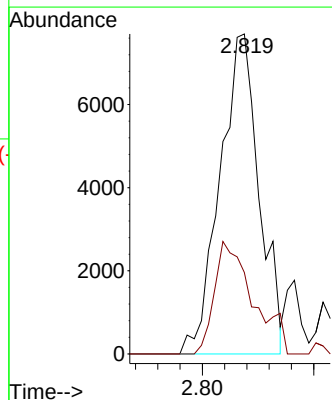
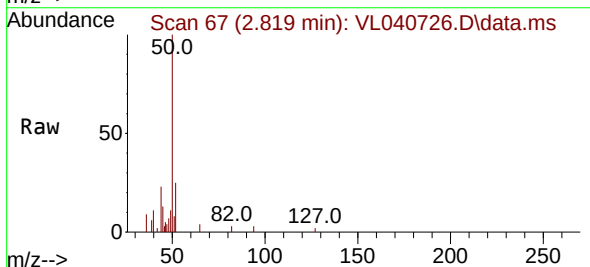
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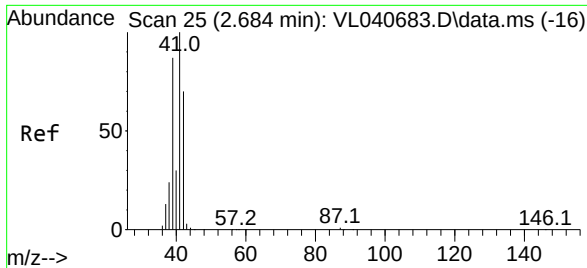
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#4
Chloromethane
Concen: 0.119 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.003 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 50 Resp: 9407
Ion Ratio Lower Upper
50 100
52 25.5 27.1 40.7#





#9

Propene

Concen: 0.637 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

SSG1DL

Tgt Ion: 41 Resp: 37754

Ion Ratio Lower Upper

41 100

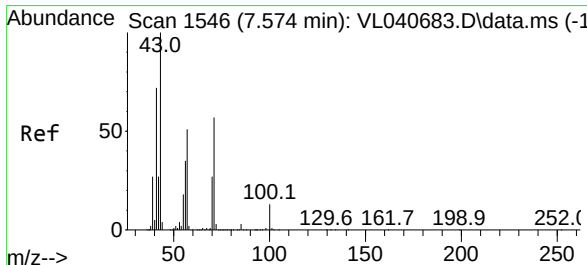
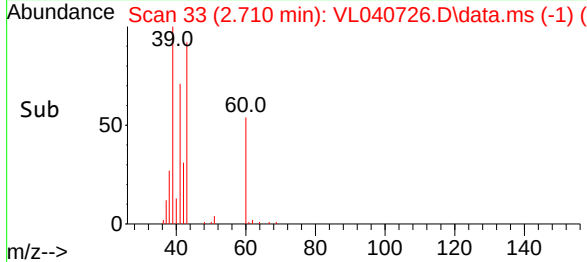
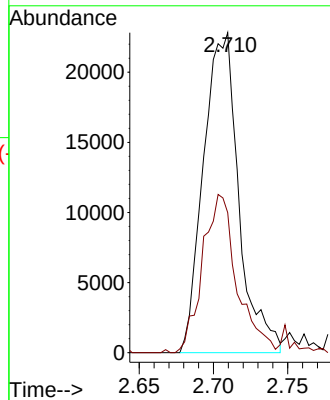
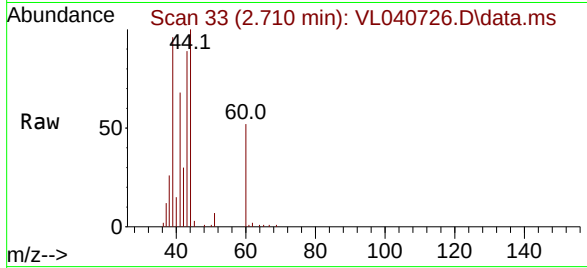
42 50.8 56.7 85.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#10

Heptane

Concen: 0.133 ppbv m

RT: 7.561 min Scan# 1542

Delta R.T. -0.026 min

Lab File: VL040726.D

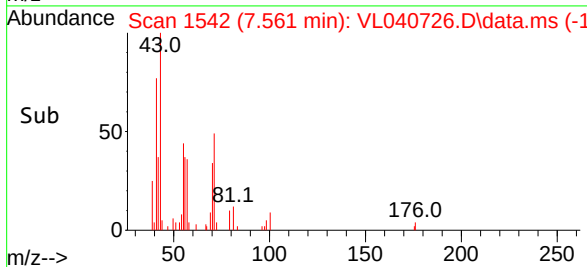
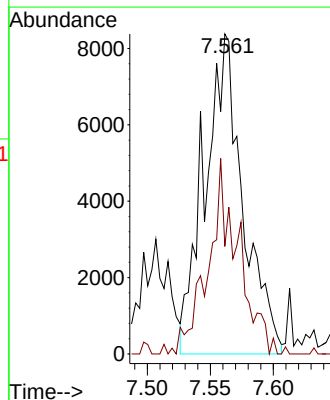
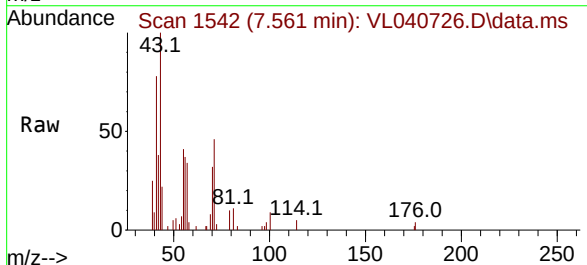
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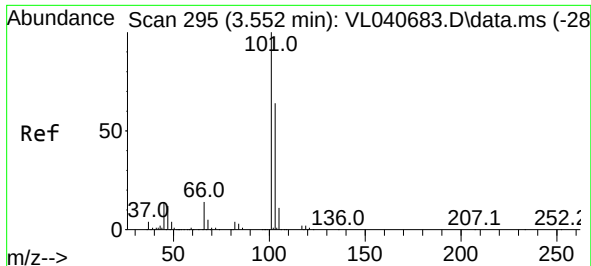
Tgt Ion: 43 Resp: 17719

Ion Ratio Lower Upper

43 100

57 48.1 41.8 62.6





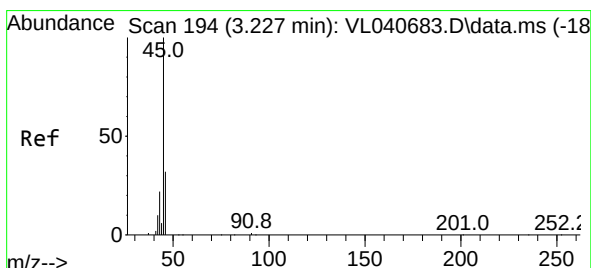
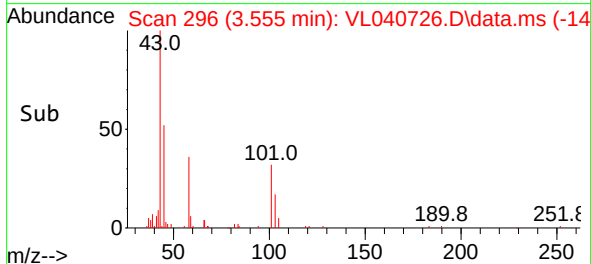
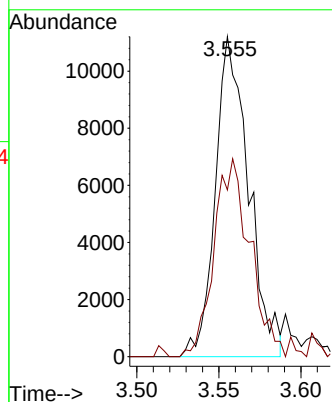
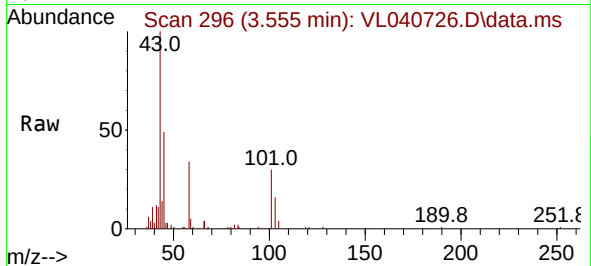
#11
Trichlorofluoromethane
Concen: 0.064 ppbv
RT: 3.555 min Scan# 295
Delta R.T. -0.013 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Tgt Ion:101 Resp: 1576
Ion Ratio Lower Upper
101 100
103 52.1 51.3 76.9

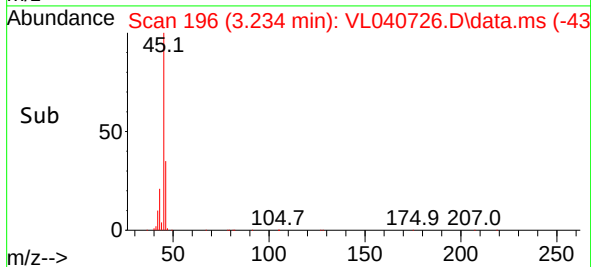
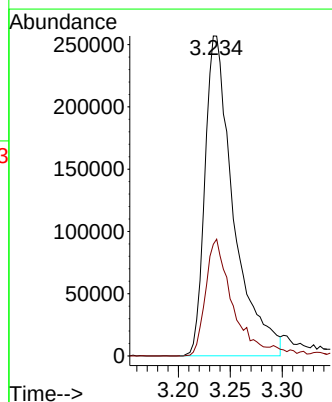
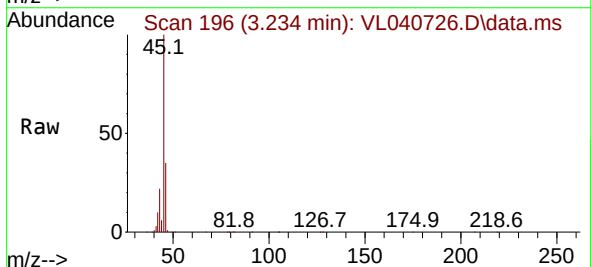
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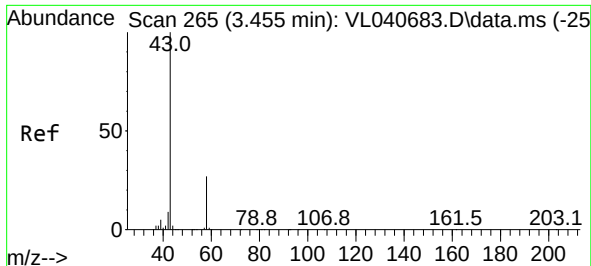
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#13
Ethanol
Concen: 28.072 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

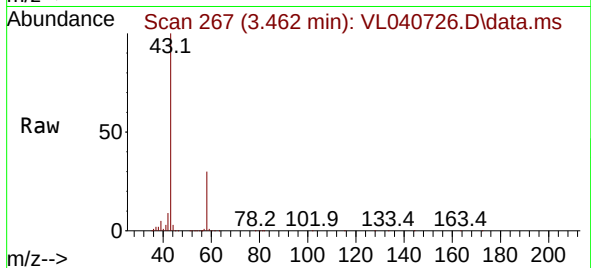
Tgt Ion: 45 Resp: 492627
Ion Ratio Lower Upper
45 100
46 37.3 15.2 61.0





#15
Acetone
Concen: 25.271 ppbv
RT: 3.462 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

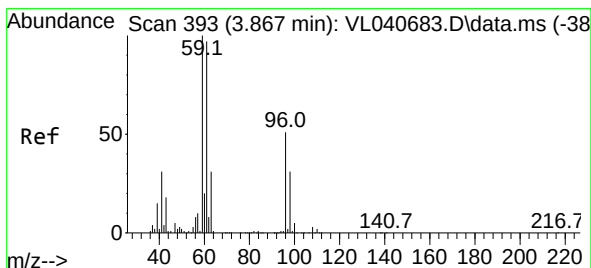
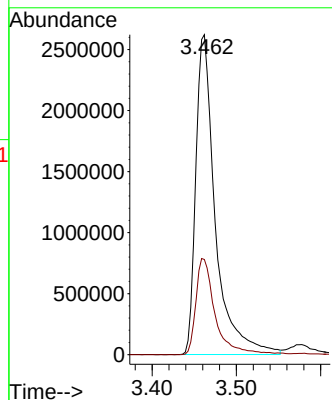
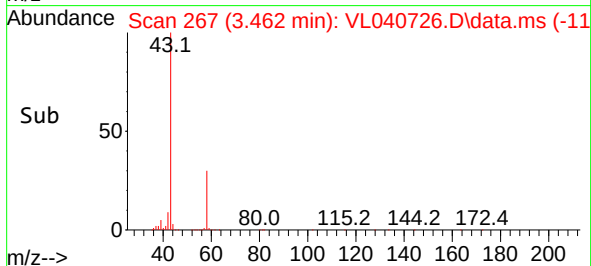
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL



Tgt Ion: 43 Resp: 421104
Ion Ratio Lower Upper
43 100
58 30.7 22.6 34.0

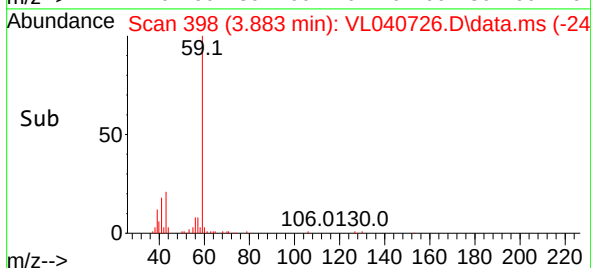
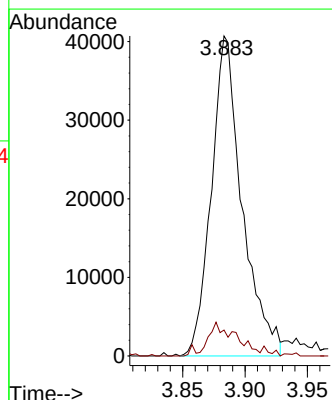
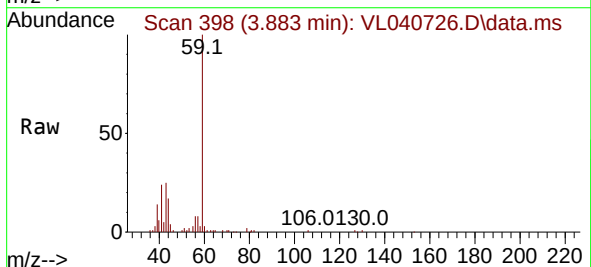
Manual Integrations
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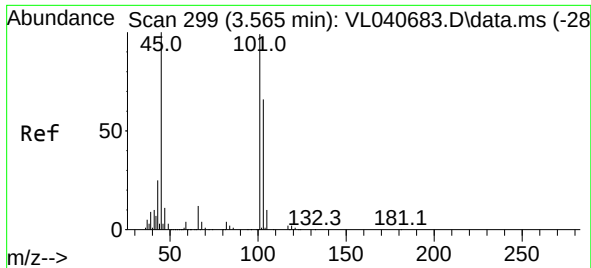
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#17
tert-Butyl alcohol
Concen: 0.409 ppbv
RT: 3.883 min Scan# 398
Delta R.T. 0.000 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 59 Resp: 69856
Ion Ratio Lower Upper
59 100
57 10.8 8.7 13.1





#19

Isopropyl Alcohol

Concen: 4.503 ppbv

RT: 3.574 min Scan# 302

Delta R.T. -0.003 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

SSG1DL

Tgt Ion: 45 Resp: 452160

Ion Ratio Lower Upper

45 100

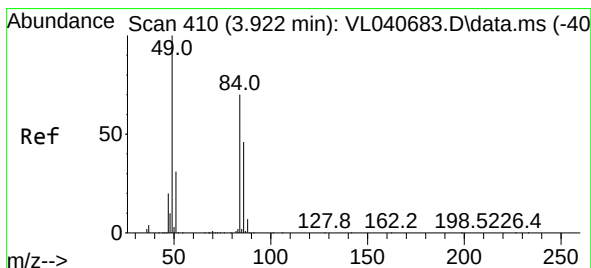
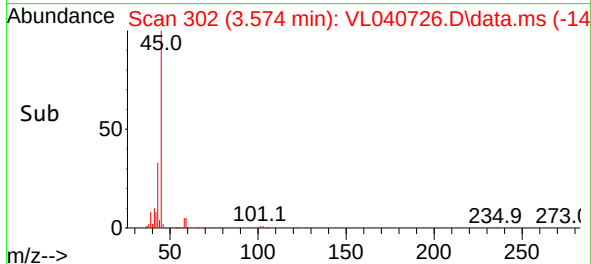
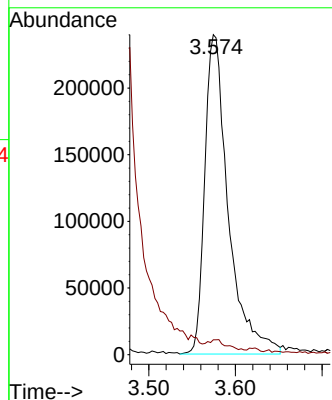
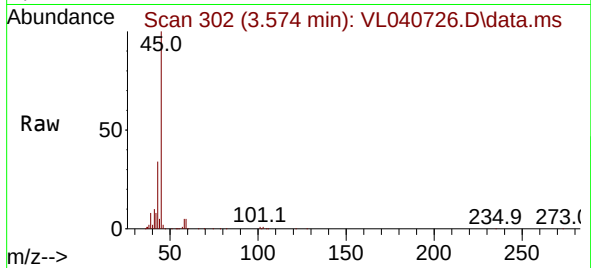
58 286.2 1.9 2.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#20

Methylene Chloride

Concen: 10.950 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.010 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Tgt Ion: 84 Resp: 982129

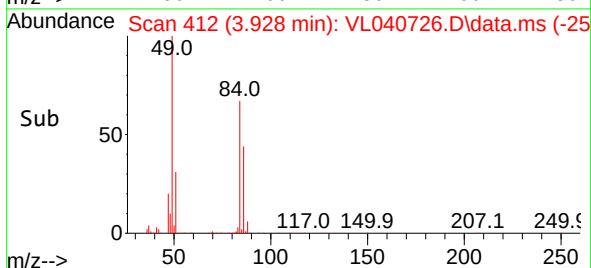
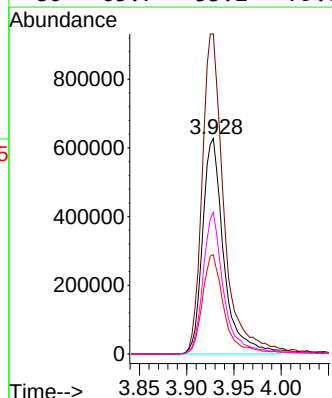
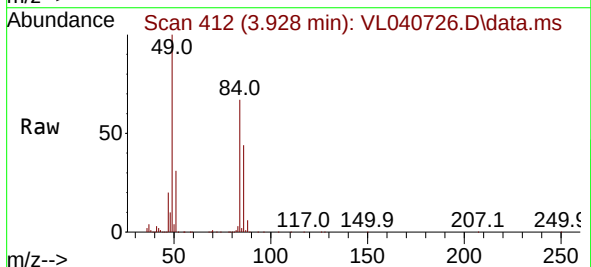
Ion Ratio Lower Upper

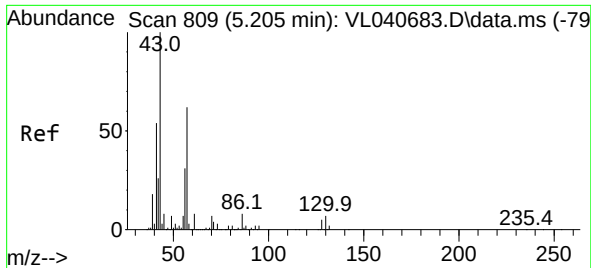
84 100

49 148.4 114.4 171.6

51 45.9 35.5 53.3

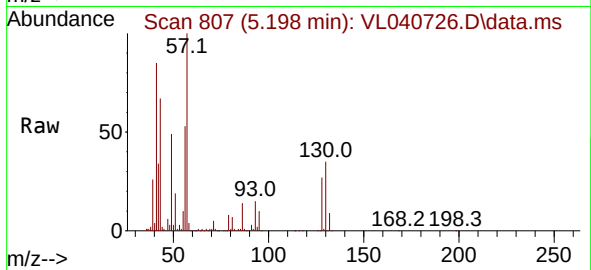
86 65.7 53.2 79.8





#26
Hexane
Concen: 6.032 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.022 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

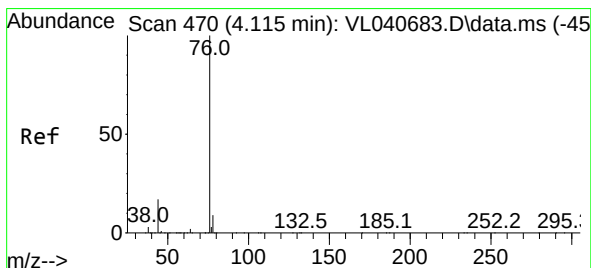
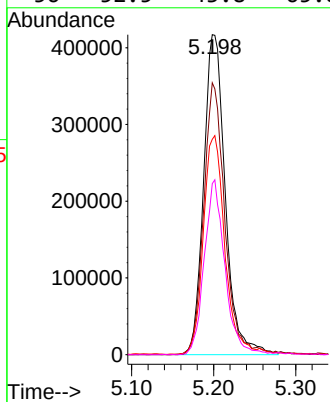
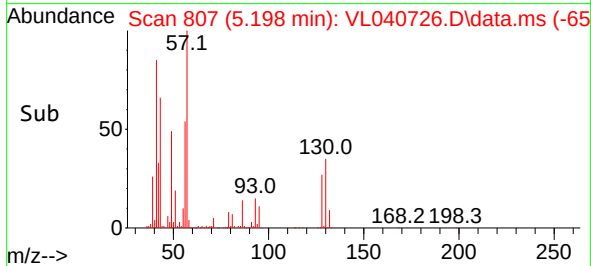
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL



Tgt Ion: 57 Resp: 766580
Ion Ratio Lower Upper
57 100
41 83.6 75.2 112.8
43 69.1 185.6 278.4
56 52.5 43.8 65.8

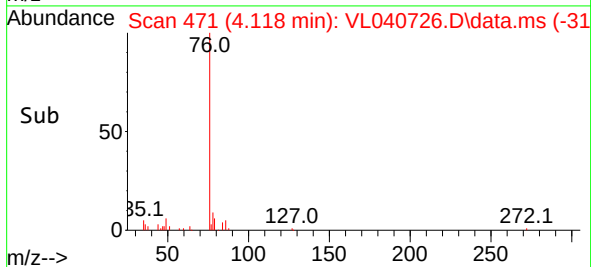
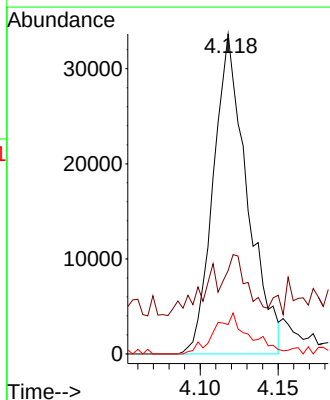
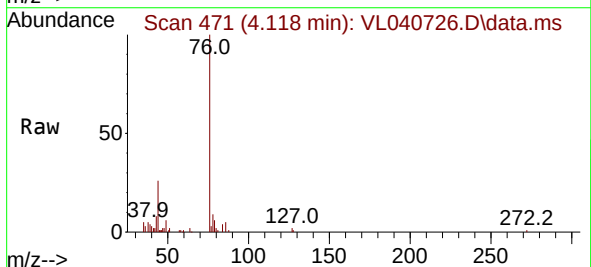
Manual Integrations
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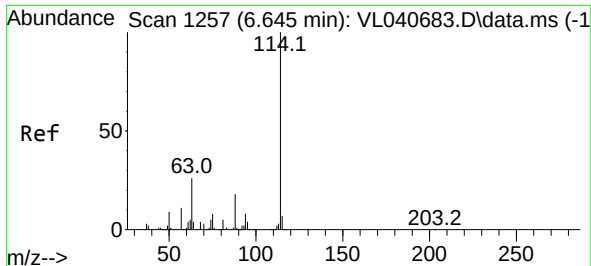
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#27
Carbon Disulfide
Concen: 0.286 ppbv
RT: 4.118 min Scan# 471
Delta R.T. -0.013 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 76 Resp: 50732
Ion Ratio Lower Upper
76 100
44 21.7 14.5 21.7
78 13.6 7.7 11.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

SSG1DL

Tgt Ion:114 Resp: 350508

Ion Ratio Lower Upper

114 100

63 23.8 21.1 31.7

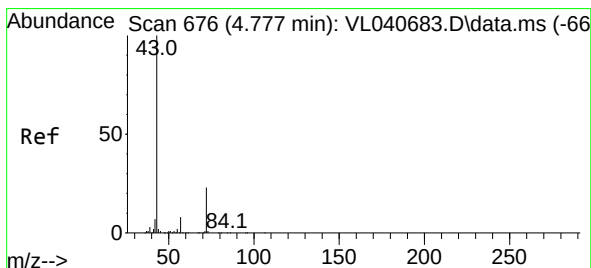
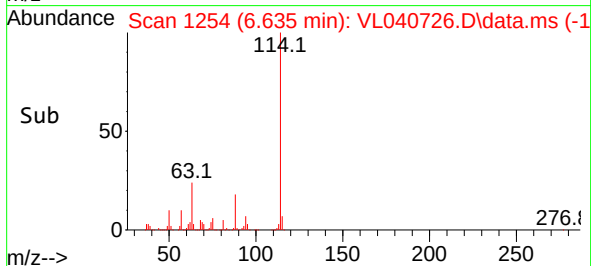
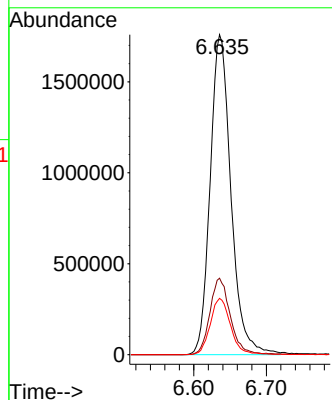
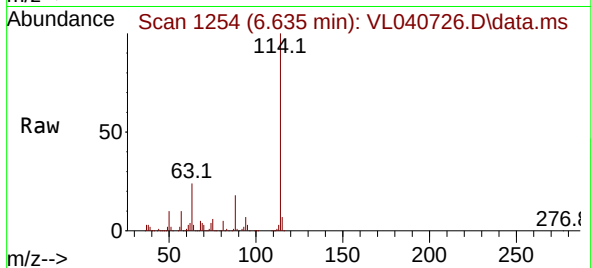
88 17.3 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#34

2-Butanone

Concen: 1.264 ppbv

RT: 4.777 min Scan# 676

Delta R.T. -0.013 min

Lab File: VL040726.D

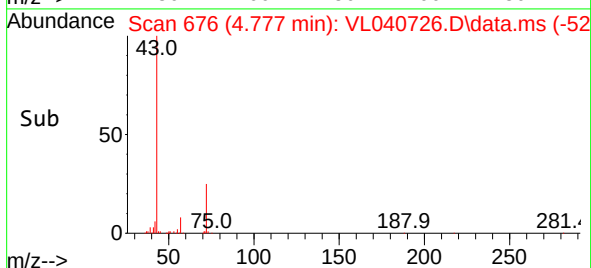
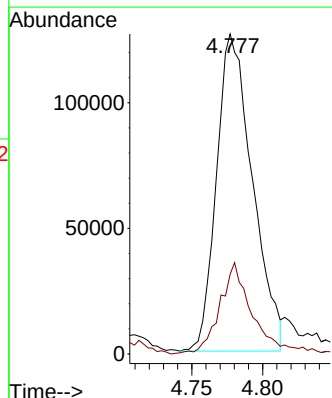
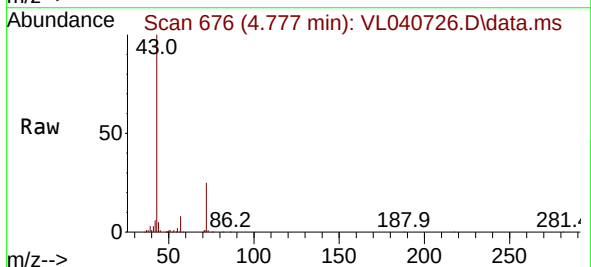
Acq: 27 Sep 2023 14:07

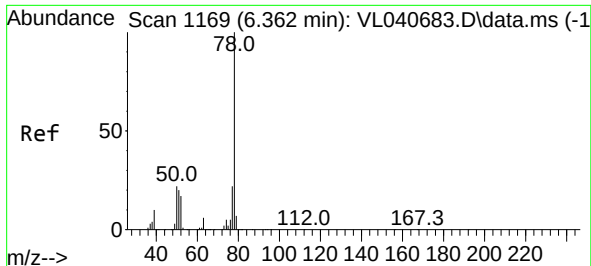
Tgt Ion: 43 Resp: 222744

Ion Ratio Lower Upper

43 100

72 26.6 18.6 27.8





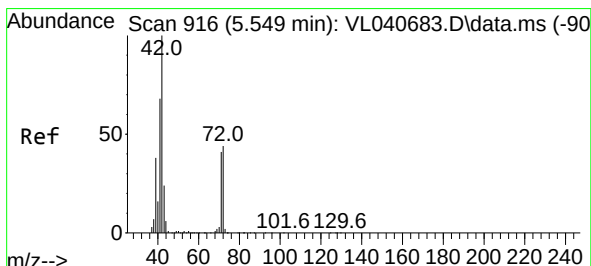
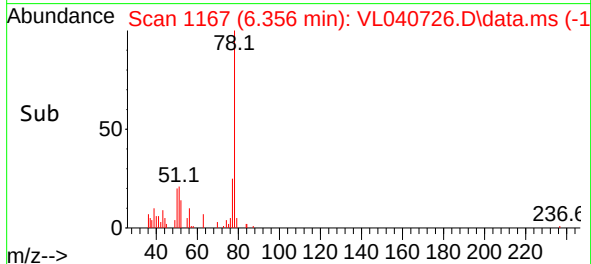
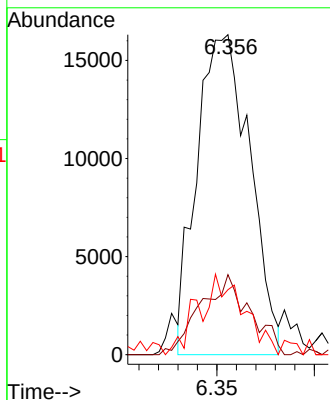
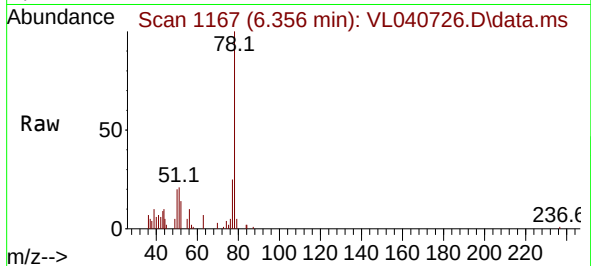
#36
Benzene
Concen: 0.119 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.026 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Instrument :
MSVOA_L
ClientSampleId :
SSG1DL

Tgt Ion: 78 Resp: 30778
Ion Ratio Lower Upper
78 100
77 24.1 17.9 26.9
50 22.3 17.3 25.9

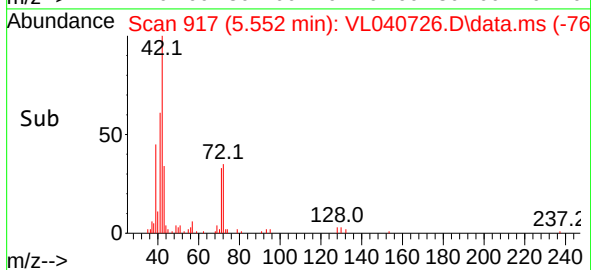
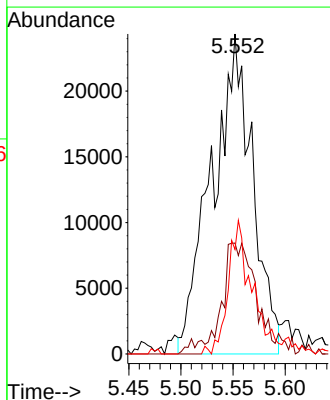
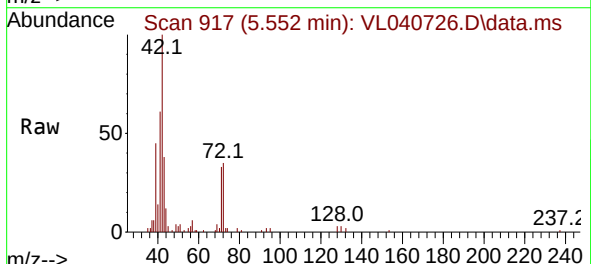
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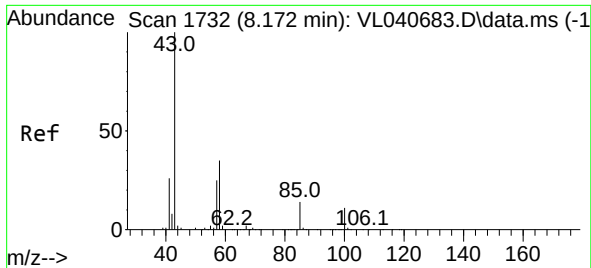
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#41
Tetrahydrofuran
Concen: 0.728 ppbv m
RT: 5.552 min Scan# 917
Delta R.T. -0.010 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

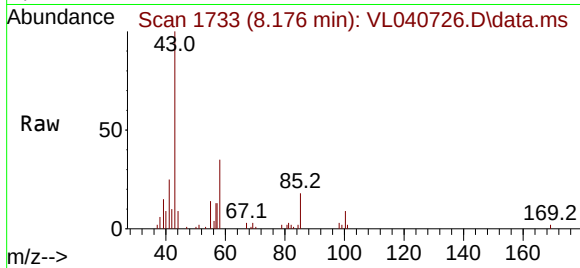
Tgt Ion: 42 Resp: 65817
Ion Ratio Lower Upper
42 100
72 0.0 34.9 52.3#
71 0.0 33.8 50.8#





#50
4-Methyl-2-Pentanone
Concen: 0.129 ppbv m
RT: 8.176 min Scan# 1732
Delta R.T. -0.016 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

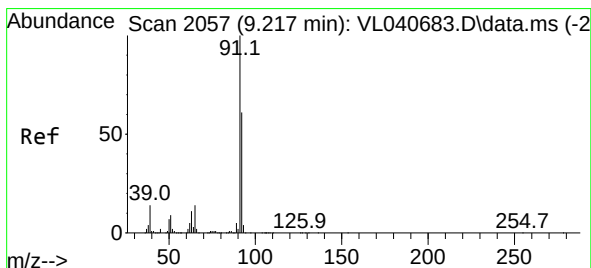
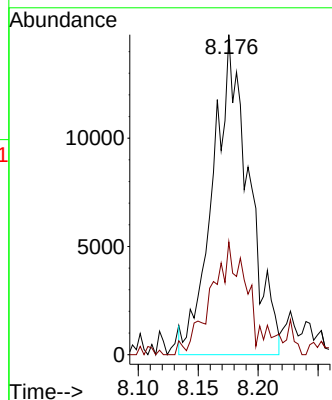
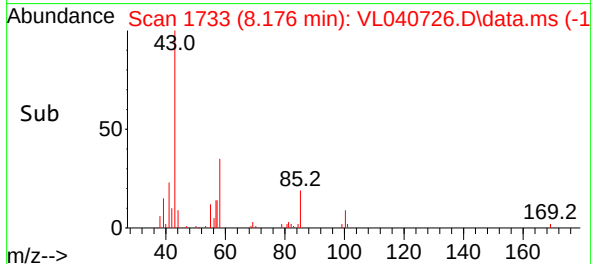
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL



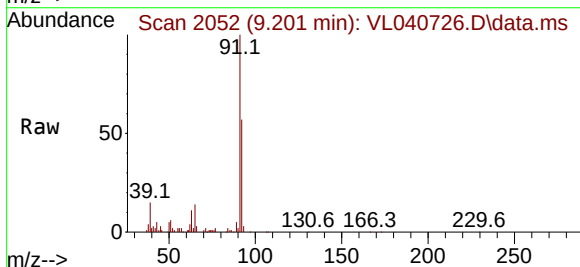
Tgt Ion: 43 Resp: 3068
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.4

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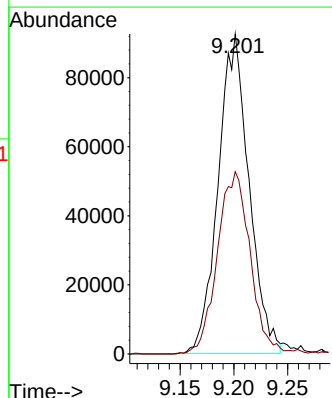
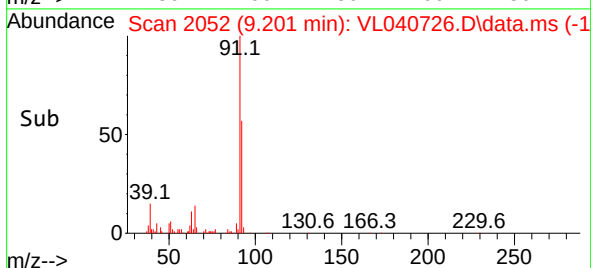
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023

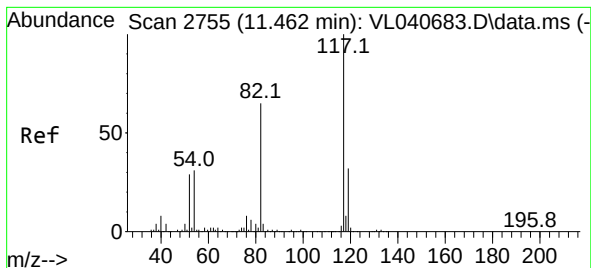


#53
Toluene
Concen: 0.672 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.029 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07



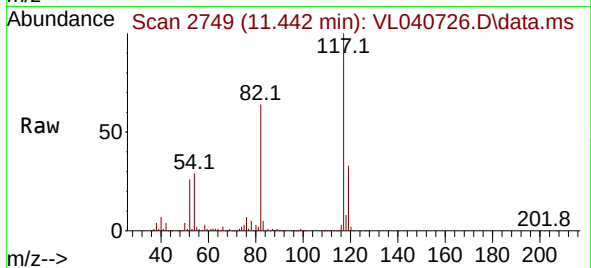
Tgt Ion: 91 Resp: 184132
Ion Ratio Lower Upper
91 100
92 61.6 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. -0.035 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

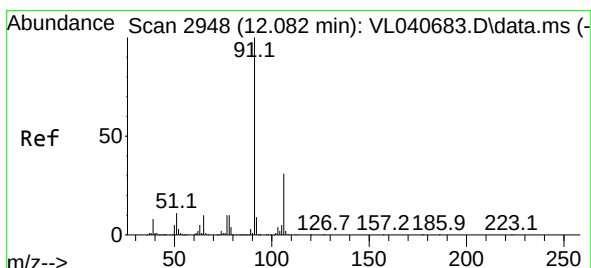
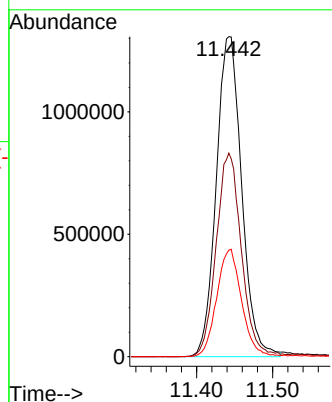
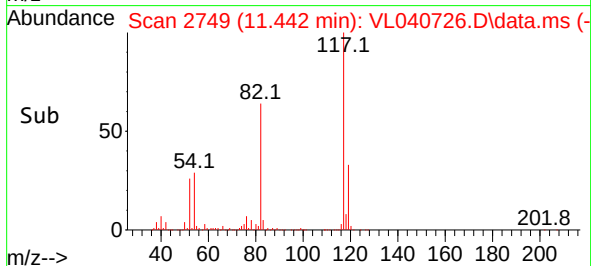
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL



Tgt Ion: 117 Resp: 3038179
Ion Ratio Lower Upper
117 100
82 63.9 51.4 77.0
119 33.5 24.7 37.1

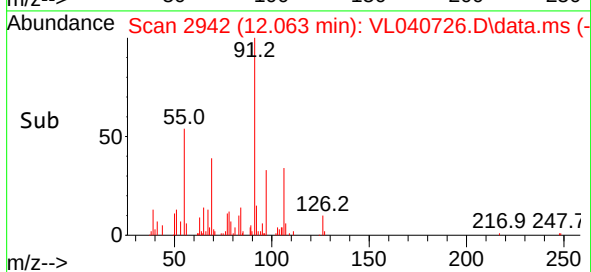
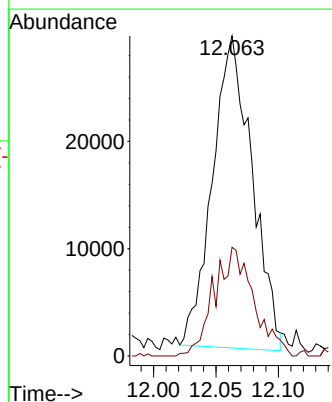
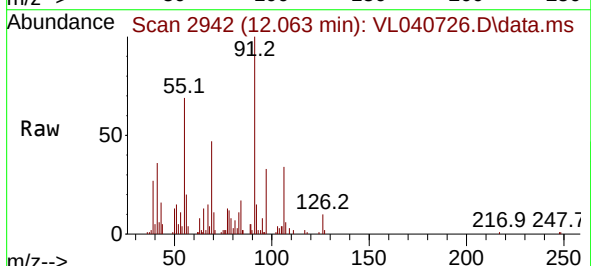
Manual Integrations
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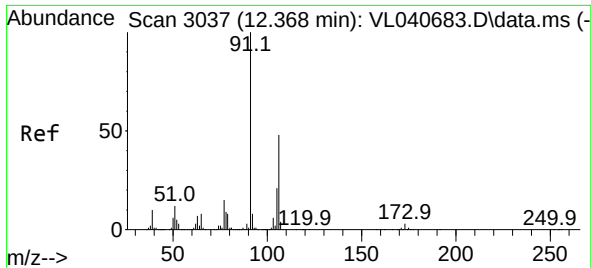
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#58
Ethyl Benzene
Concen: 0.185 ppbv
RT: 12.063 min Scan# 2942
Delta R.T. -0.039 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion: 91 Resp: 64253
Ion Ratio Lower Upper
91 100
106 34.3 24.7 37.1





#59

m/p-Xylene

Concen: 0.594 ppbv m

RT: 12.327 min Scan# 3037

Delta R.T. -0.055 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

SSG1DL

Tgt Ion: 91 Resp: 193314

Ion Ratio Lower Upper

91 100

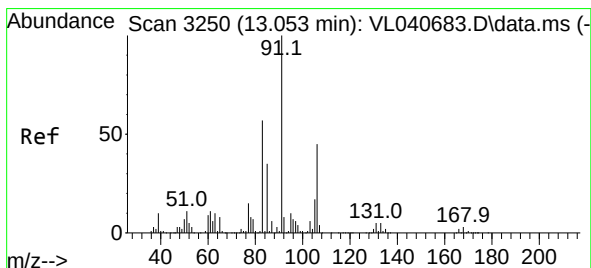
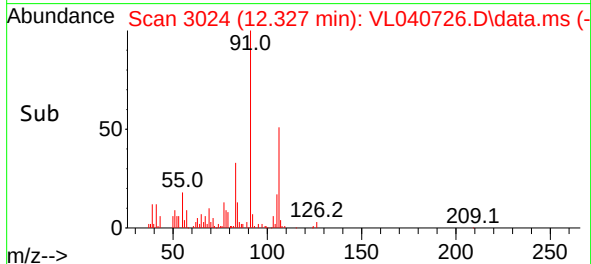
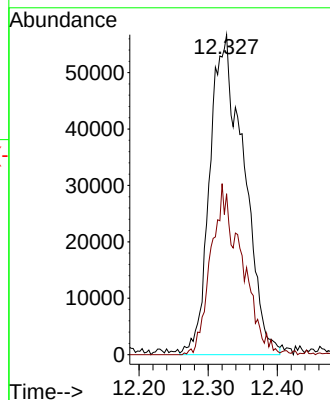
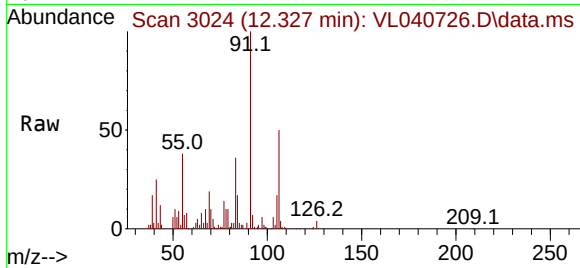
106 0.0 34.8 52.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#60

o-Xylene

Concen: 0.187 ppbv m

RT: 13.034 min Scan# 3244

Delta R.T. -0.035 min

Lab File: VL040726.D

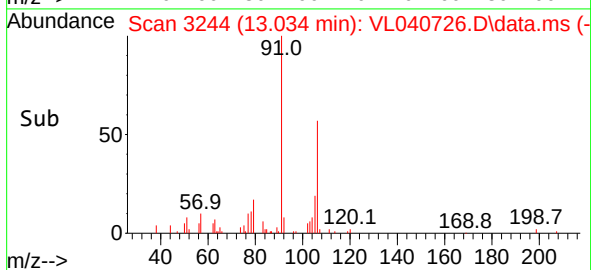
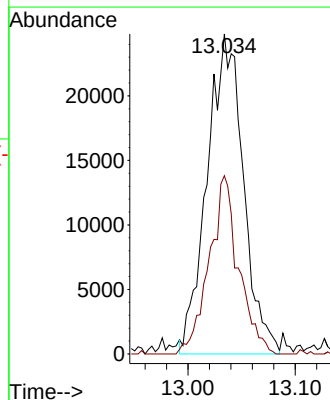
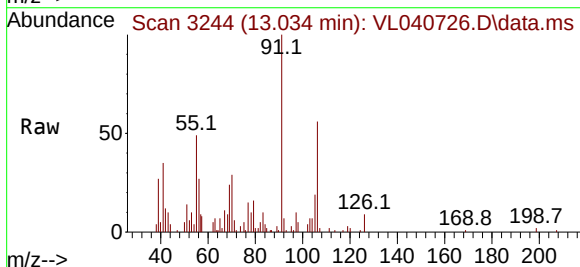
Acq: 27 Sep 2023 14:07

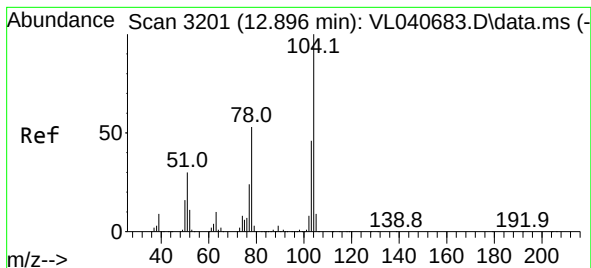
Tgt Ion: 91 Resp: 58154

Ion Ratio Lower Upper

91 100

106 0.0 22.3 66.9





#61

Styrene

Concen: 1.780 ppbv

RT: 12.873 min Scan# 3194

Delta R.T. -0.032 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

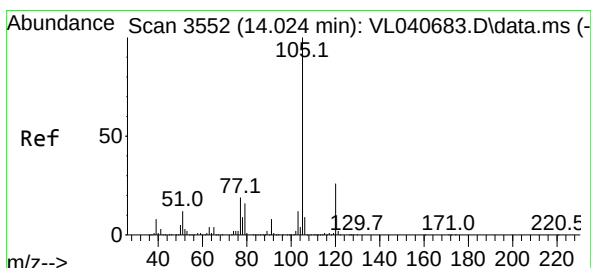
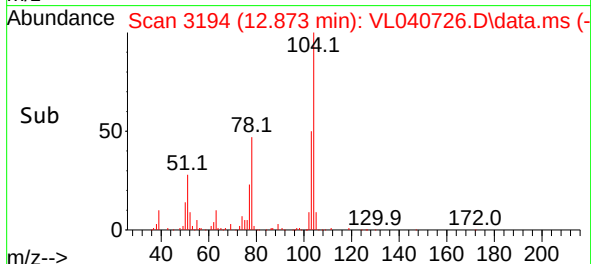
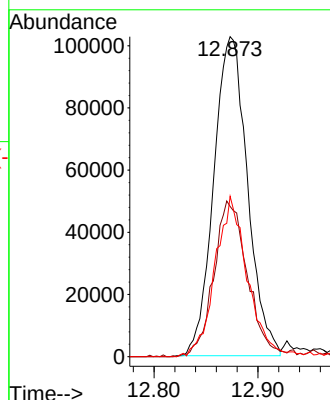
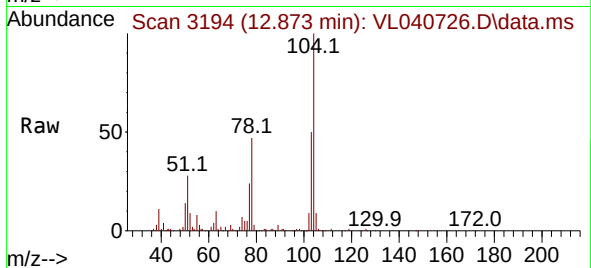
SSG1DL

Tgt Ion:104	Resp: 231420
Ion Ratio	Lower Upper
104 100	
78 49.2	43.4 65.0
103 49.0	37.2 55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#62

Isopropylbenzene

Concen: 1.511 ppbv

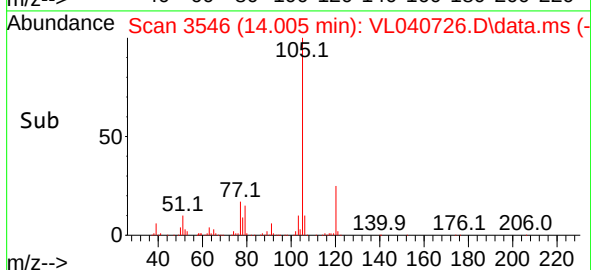
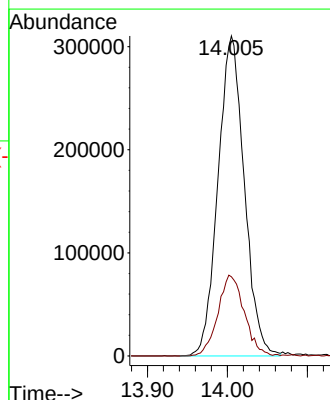
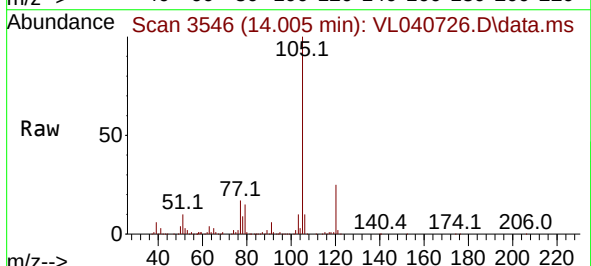
RT: 14.005 min Scan# 3546

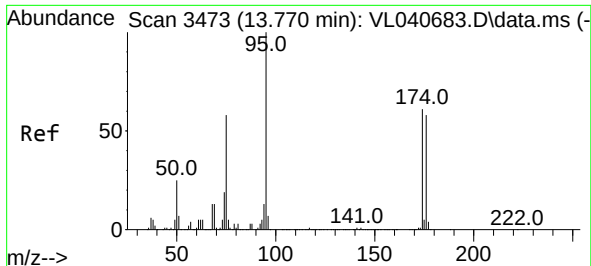
Delta R.T. -0.032 min

Lab File: VL040726.D

Acq: 27 Sep 2023 14:07

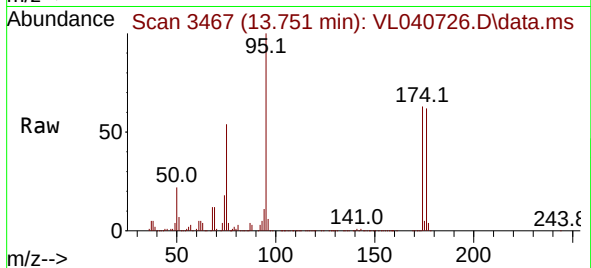
Tgt Ion:105	Resp: 707563
Ion Ratio	Lower Upper
105 100	
120 25.4	20.2 30.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.788 ppbv
RT: 13.751 min Scan# 3473
Delta R.T. -0.035 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

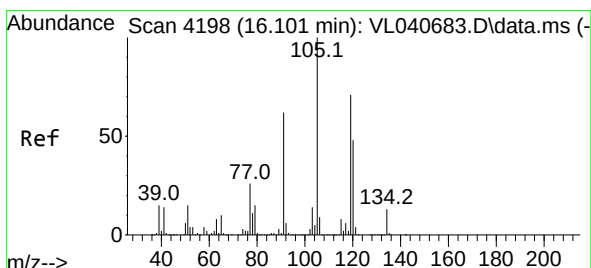
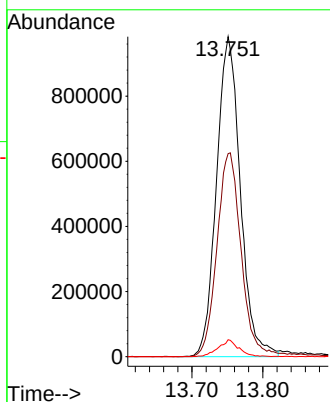
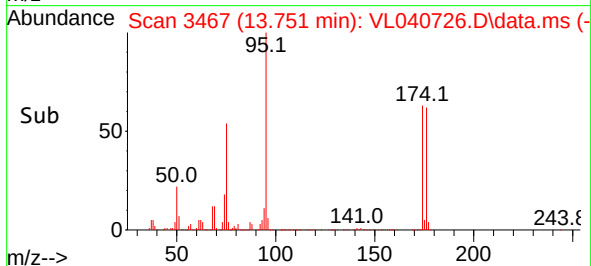
Instrument :
MSVOA_L
ClientSampleId :
SSG1DL



Tgt Ion: 95 Resp: 2297650
Ion Ratio Lower Upper
95 100
174 65.8 48.9 73.3
175 4.7 3.5 5.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 16.082 min Scan# 4192
Delta R.T. -0.035 min
Lab File: VL040726.D
Acq: 27 Sep 2023 14:07

Tgt Ion:105 Resp: 54768
Ion Ratio Lower Upper
105 100
120 34.3 38.6 57.8#
91 10.8 50.0 75.0#
77 17.9 20.6 31.0#

