

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040729.D
 Acq On : 27 Sep 2023 16:06
 Operator : SY/MD
 Sample : 04616-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DUP

Manual Integrations
 APPROVED

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

Quant Time: Sep 28 01:44:57 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	5.185	49	1276945	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	3494937	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.442	117	3104513	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	2338703	9.750	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.738	85	32956	0.117	ppbv	93
3) Chlorodifluoromethane	2.684	51	16449m	0.079	ppbv	
9) Propene	2.709	41	57262	0.956	ppbv #	81
13) Ethanol	3.243	45	558763	31.500	ppbv	97
15) Acetone	3.465	43	7834765	46.516	ppbv	92
17) tert-Butyl alcohol	3.880	59	204410	1.185	ppbv	100
19) Isopropyl Alcohol	3.581	45	200908	1.980	ppbv #	93
20) Methylene Chloride	3.934	84	411612	4.540	ppbv	94
26) Hexane	5.205	57	362976	2.826	ppbv #	38
27) Carbon Disulfide	4.124	76	84687	0.473	ppbv #	89
29) Chloroform	5.266	83	162073	0.731	ppbv	97
34) 2-Butanone	4.783	43	455172	2.590	ppbv	94
36) Benzene	6.352	78	83609	0.323	ppbv #	88
40) 1,4-Dioxane	7.278	88	54493m	1.447	ppbv	
41) Tetrahydrofuran	5.555	42	38658	0.429	ppbv #	87
50) 4-Methyl-2-Pentanone	8.175	43	87723	0.369	ppbv	95
52) Tetrachloroethene	10.590	164	17801m	0.211	ppbv	
53) Toluene	9.198	91	275224	1.007	ppbv	99
58) Ethyl Benzene	12.066	91	96872	0.274	ppbv	94
59) m/p-Xylene	12.317	91	229634m	0.691	ppbv	
60) o-Xylene	13.031	91	89555m	0.283	ppbv	
61) Styrene	12.873	104	294678	2.218	ppbv	98
62) Isopropylbenzene	14.005	105	1004897	2.100	ppbv	100

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

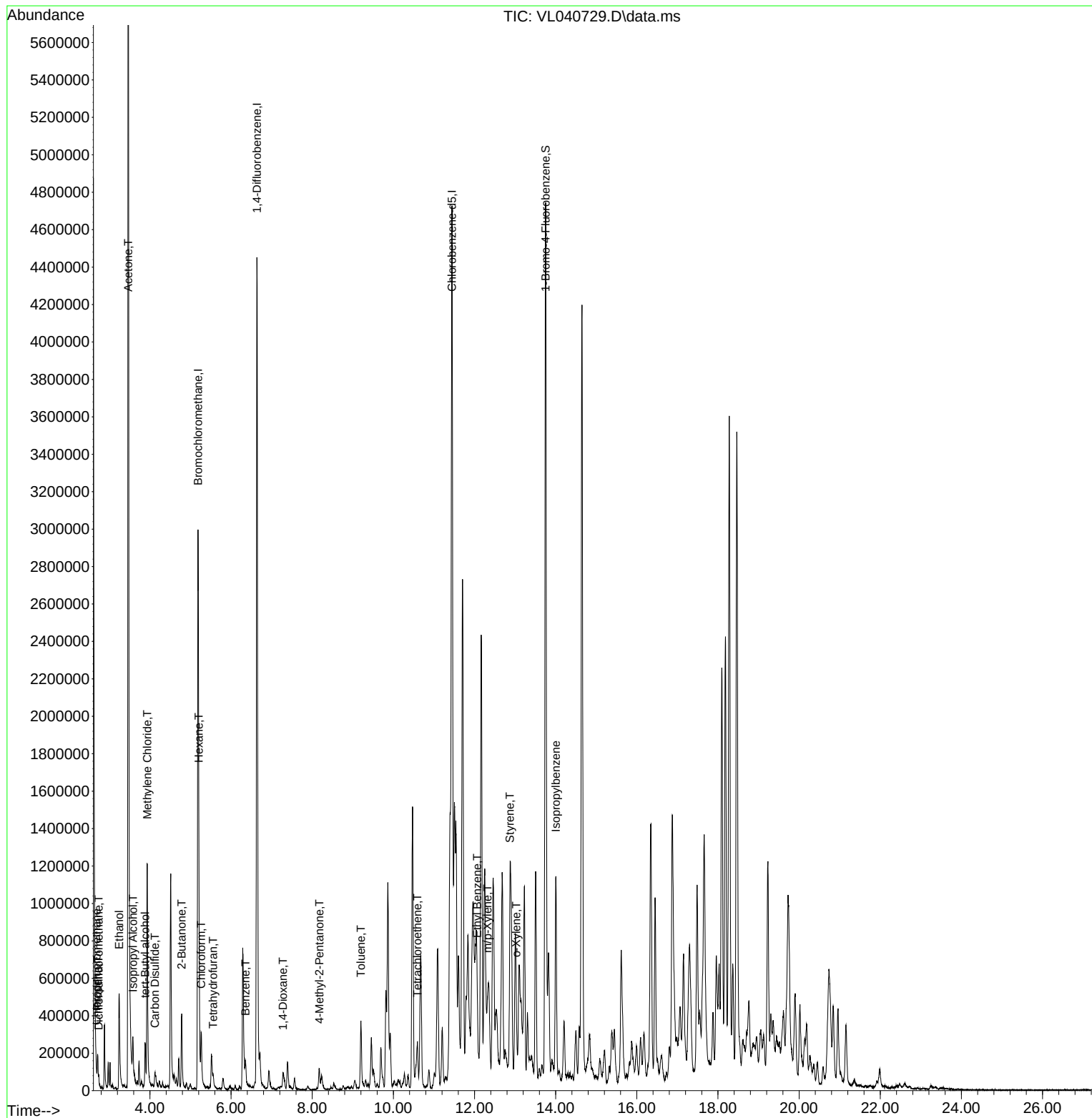
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
Data File : VL040729.D
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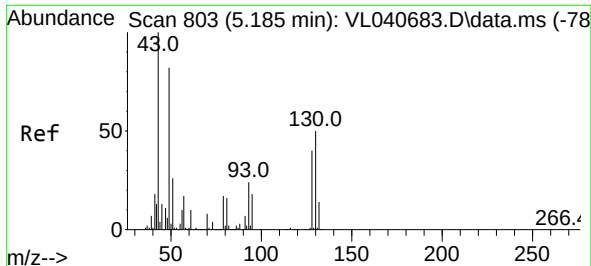
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP

Quant Time: Sep 28 01:44:57 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

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APPROVED

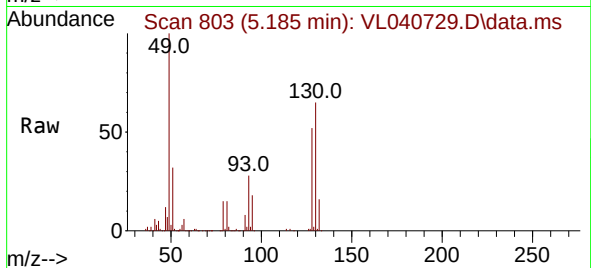
Reviewed By : Semsettin Yesilyurt 09/28/2023
Supervised By : Mahesh Dadoda 09/28/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

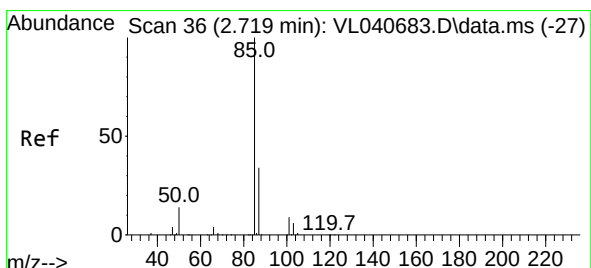
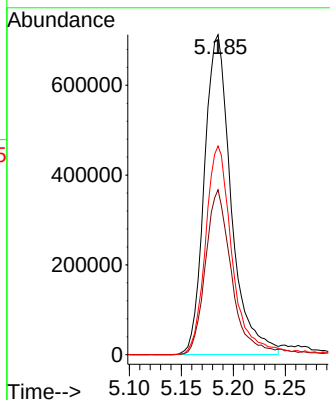
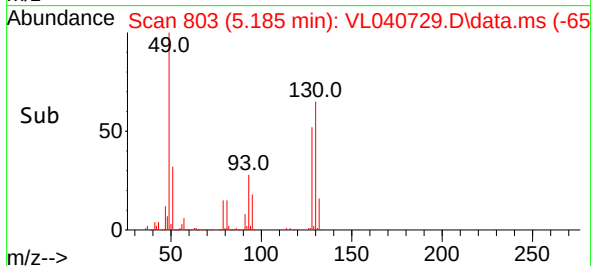
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



Tgt Ion: 49 Resp: 127694
Ion Ratio Lower Upper
49 100
128 52.1 25.4 76.0
130 66.0 32.3 96.8

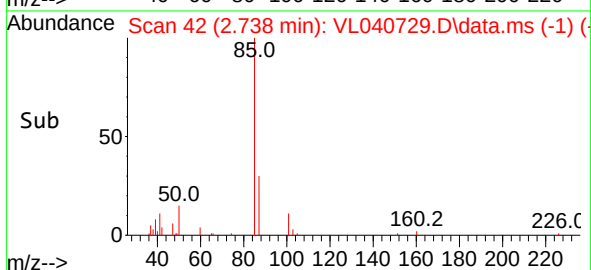
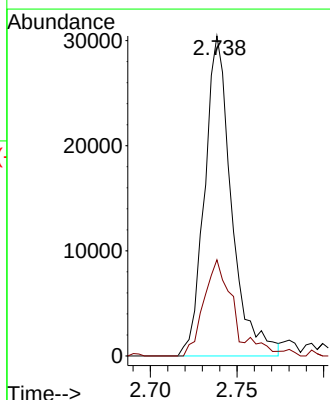
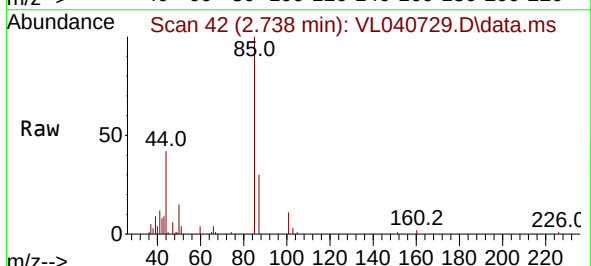
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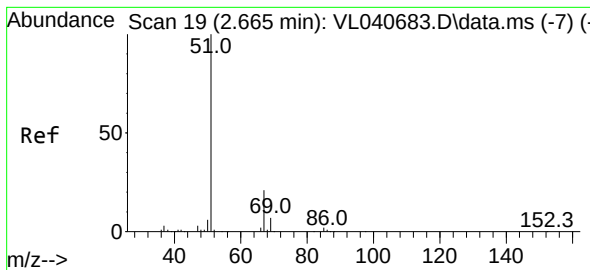
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#2
Dichlorodifluoromethane
Concen: 0.117 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.006 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Tgt Ion: 85 Resp: 32956
Ion Ratio Lower Upper
85 100
87 30.0 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.079 ppbv m

RT: 2.684 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL040729.D

Acq: 27 Sep 2023 16:06

Instrument :

MSVOA_L

ClientSampleId :

SSG2DUP

Tgt Ion: 51 Resp: 16449

Ion Ratio Lower Upper

51 100

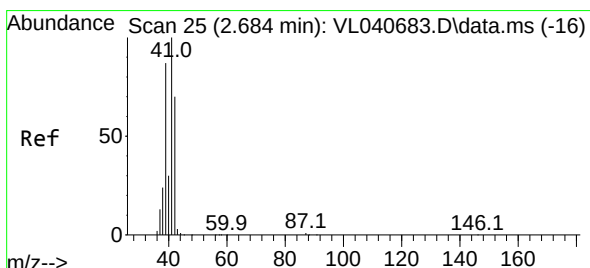
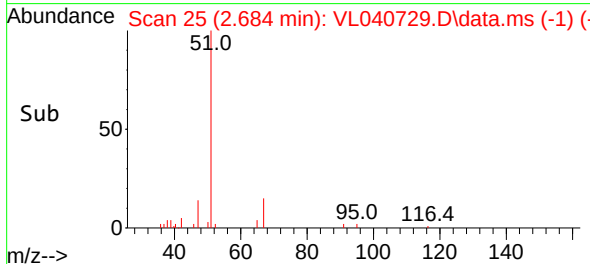
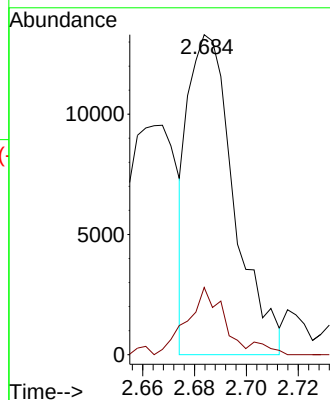
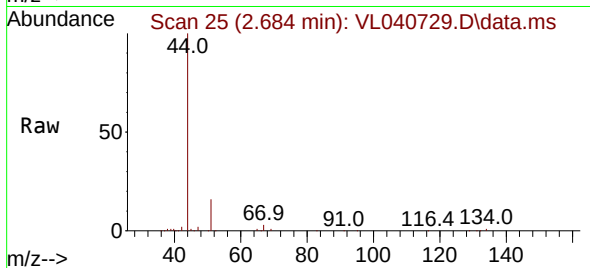
67 1.6 16.7 25.1

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#9

Propene

Concen: 0.956 ppbv

RT: 2.709 min Scan# 33

Delta R.T. 0.013 min

Lab File: VL040729.D

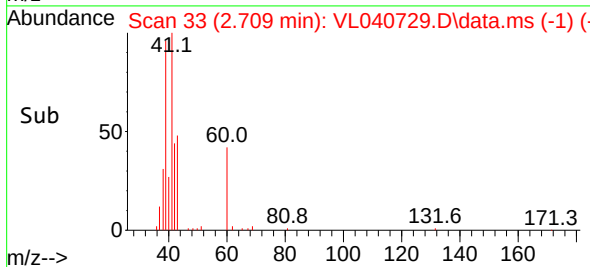
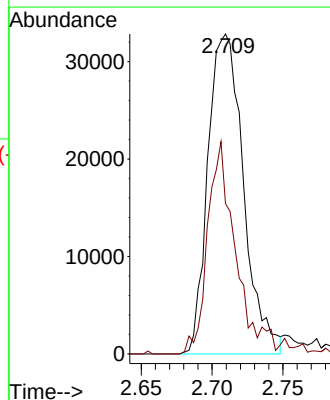
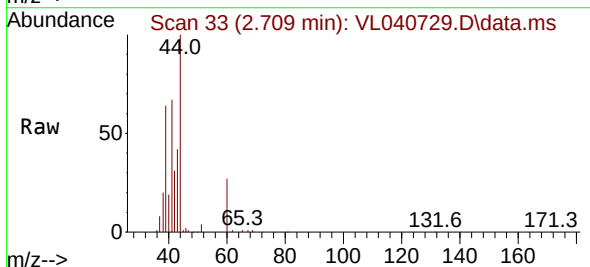
Acq: 27 Sep 2023 16:06

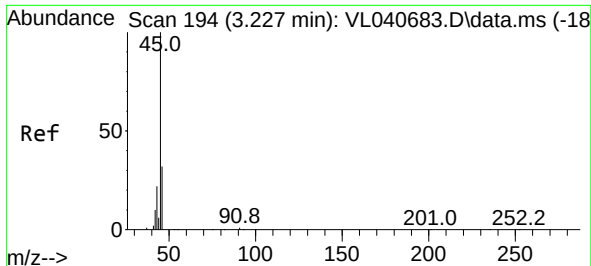
Tgt Ion: 41 Resp: 57262

Ion Ratio Lower Upper

41 100

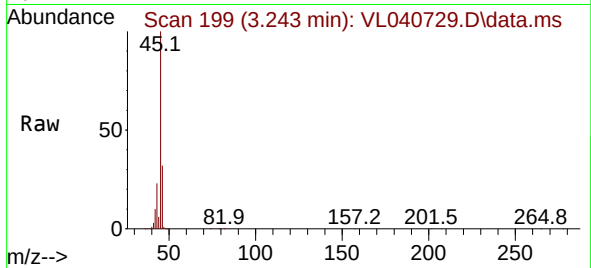
42 54.9 56.7 85.1





#13
Ethanol
Concen: 31.500 ppbv
RT: 3.243 min Scan# 194
Delta R.T. -0.000 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

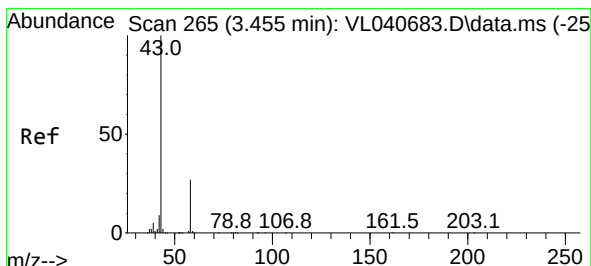
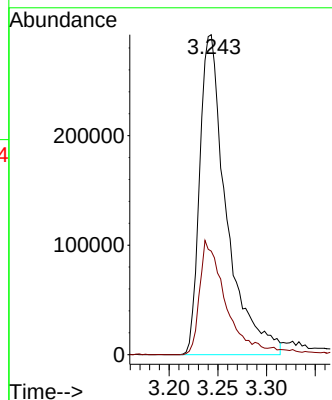
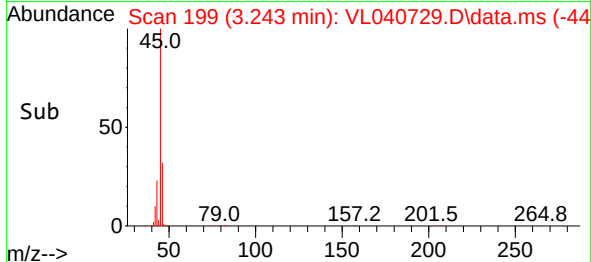
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



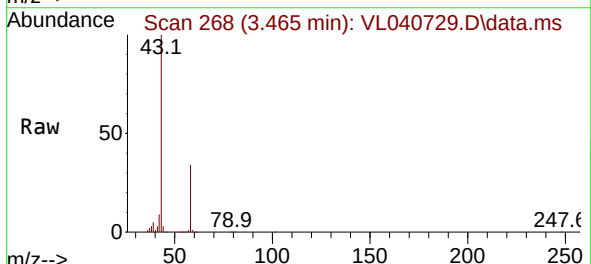
Tgt Ion: 45 Resp: 55876
Ion Ratio Lower Upper
45 100
46 36.5 15.2 61.0

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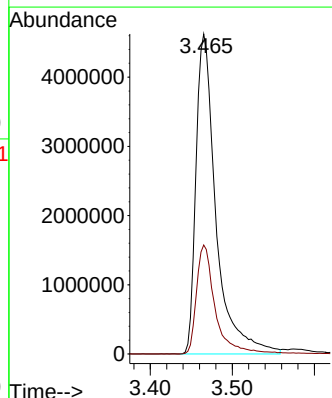
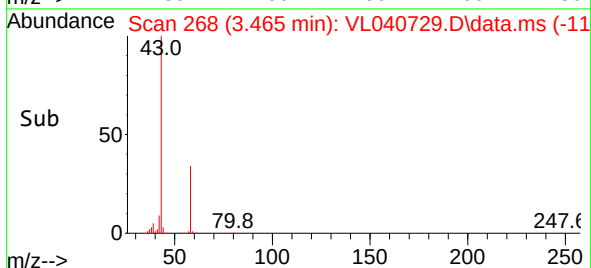
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023

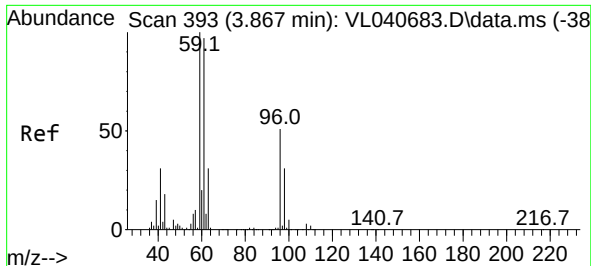


#15
Acetone
Concen: 46.516 ppbv
RT: 3.465 min Scan# 268
Delta R.T. -0.006 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06



Tgt Ion: 43 Resp: 7834765
Ion Ratio Lower Upper
43 100
58 32.6 22.6 34.0





#17

tert-Butyl alcohol

Concen: 1.185 ppbv

RT: 3.880 min Scan# 304

Delta R.T. -0.003 min

Lab File: VL040729.D

Acq: 27 Sep 2023 16:06

Instrument :

MSVOA_L

ClientSampleId :

SSG2DUP

Tgt Ion: 59 Resp: 204410

Ion Ratio Lower Upper

59 100

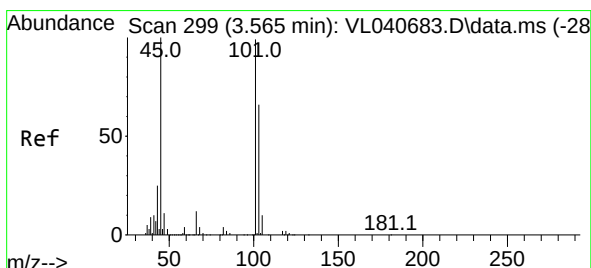
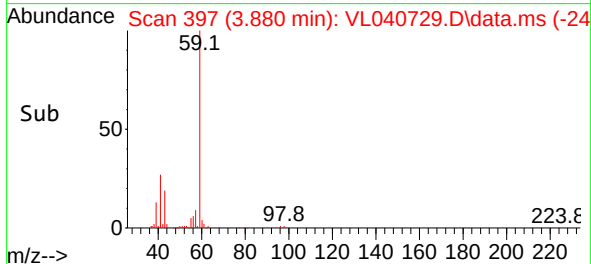
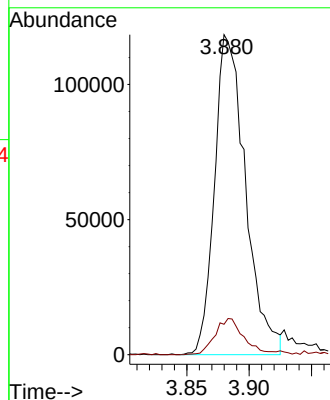
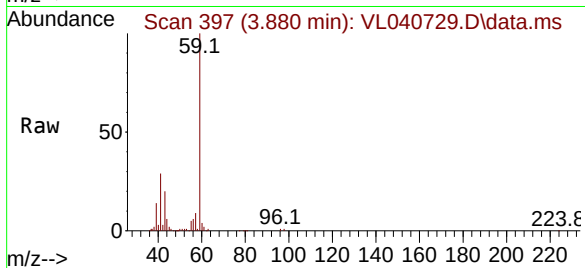
57 10.9 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#19

Isopropyl Alcohol

Concen: 1.980 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.003 min

Lab File: VL040729.D

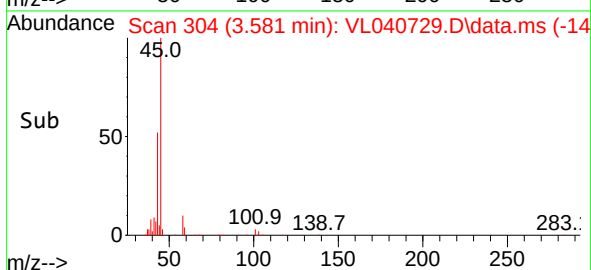
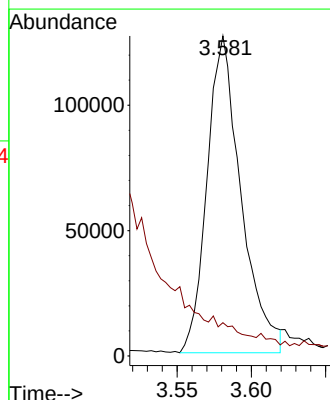
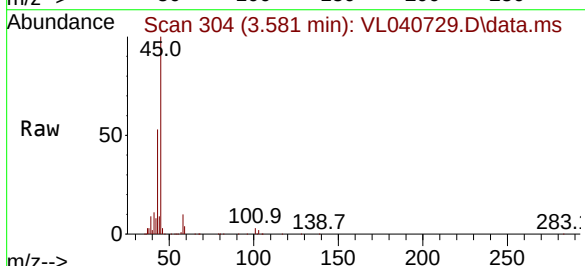
Acq: 27 Sep 2023 16:06

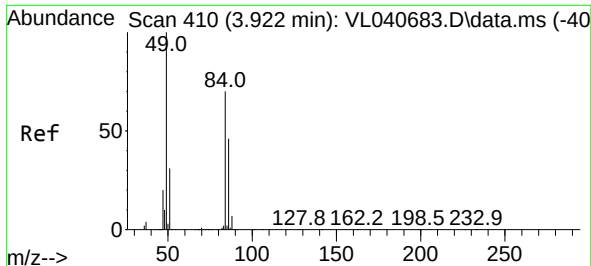
Tgt Ion: 45 Resp: 200908

Ion Ratio Lower Upper

45 100

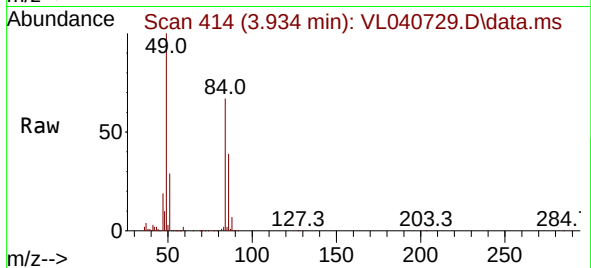
58 0.0 1.9 2.9#





#20
Methylene Chloride
Concen: 4.540 ppbv
RT: 3.934 min Scan# 410
Delta R.T. -0.003 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

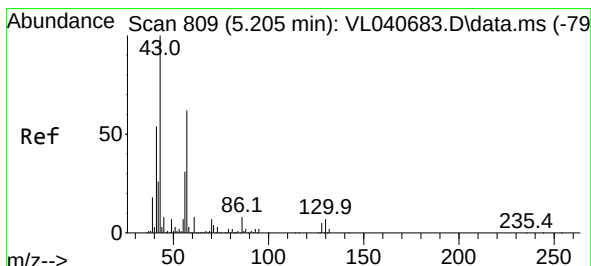
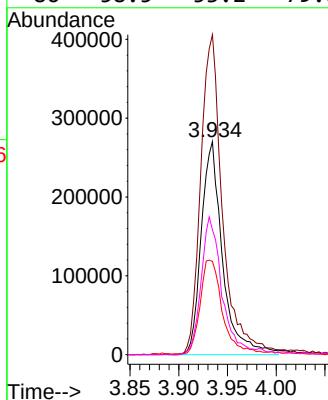
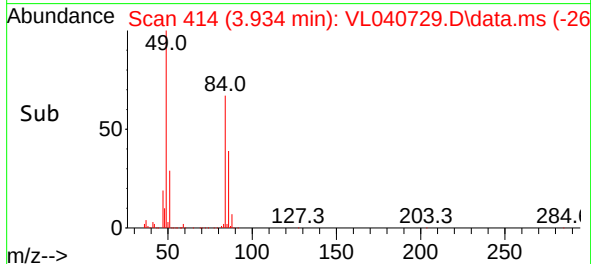
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



Tgt Ion: 84 Resp: 411612
Ion Ratio Lower Upper
84 100
49 150.1 114.4 171.6
51 43.3 35.5 53.3
86 58.5 53.2 79.8

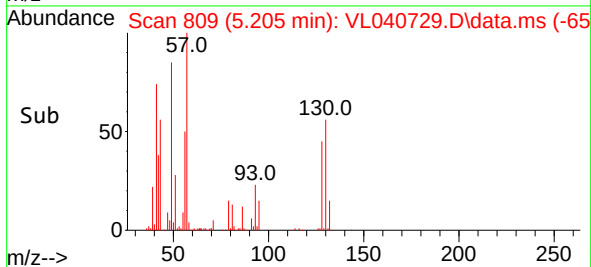
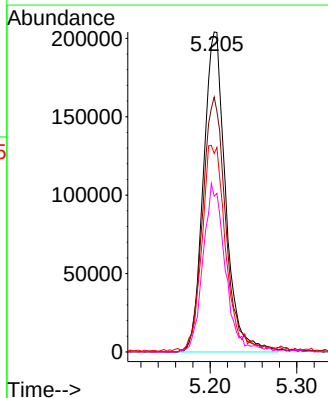
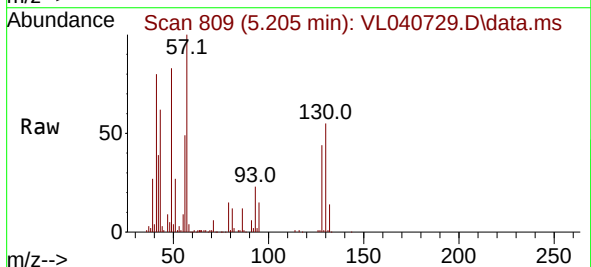
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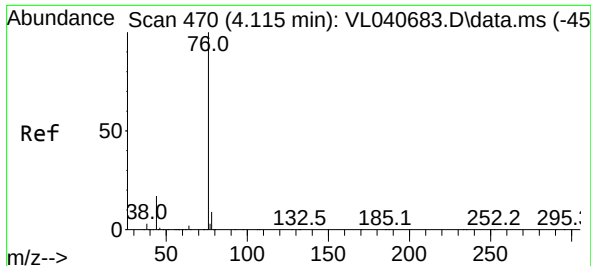
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#26
Hexane
Concen: 2.826 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.016 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

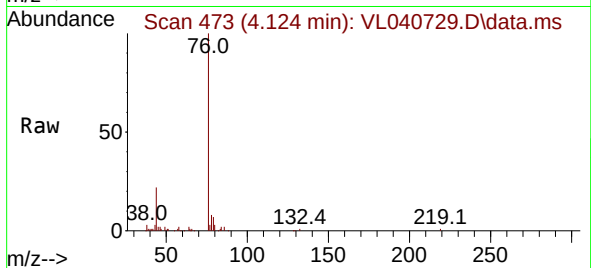
Tgt Ion: 57 Resp: 362976
Ion Ratio Lower Upper
57 100
41 85.2 75.2 112.8
43 70.8 185.6 278.4#
56 53.6 43.8 65.8





#27
Carbon Disulfide
Concen: 0.473 ppbv
RT: 4.124 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

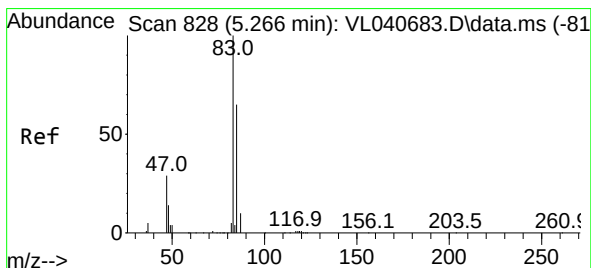
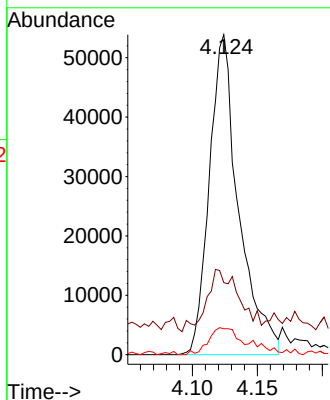
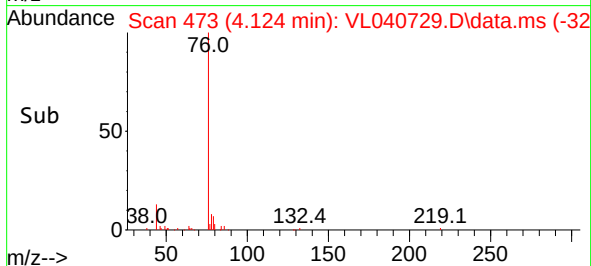
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



Tgt Ion: 76 Resp: 8468
Ion Ratio Lower Upper
76 100
44 23.8 14.5 21.7
78 11.9 7.7 11.5

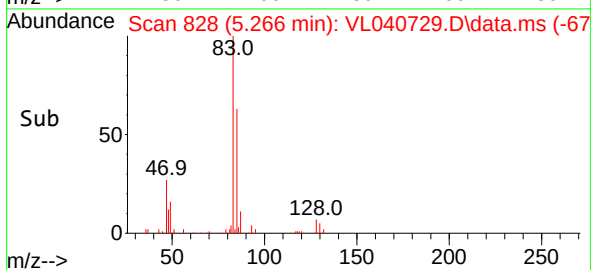
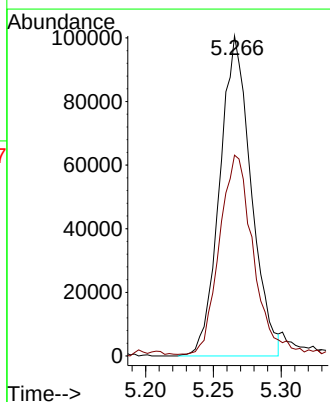
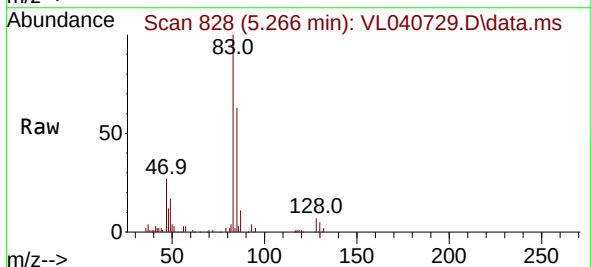
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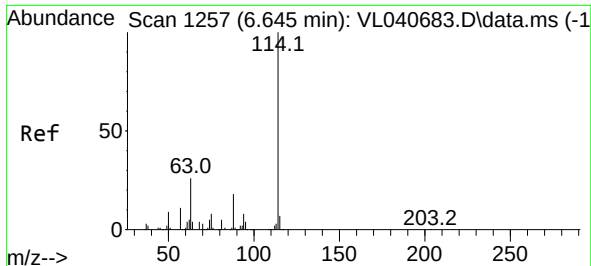
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#29
Chloroform
Concen: 0.731 ppbv
RT: 5.266 min Scan# 828
Delta R.T. -0.016 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Tgt Ion: 83 Resp: 162073
Ion Ratio Lower Upper
83 100
85 62.4 51.8 77.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. -0.023 min

Lab File: VL040729.D

Acq: 27 Sep 2023 16:06

Instrument :

MSVOA_L

ClientSampleId :

SSG2DUP

Tgt Ion:114 Resp: 349493

Ion Ratio Lower Upper

114 100

63 24.2 21.1 31.7

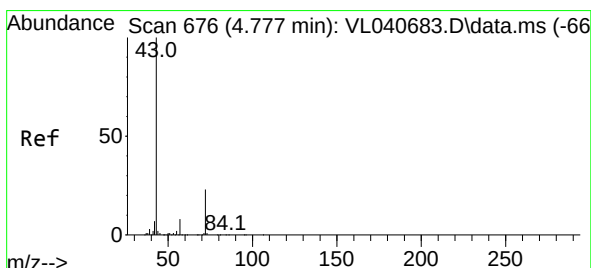
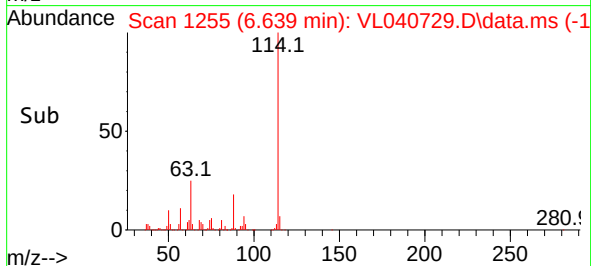
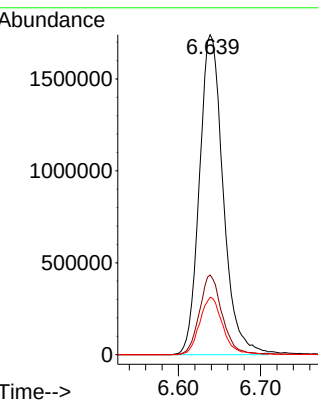
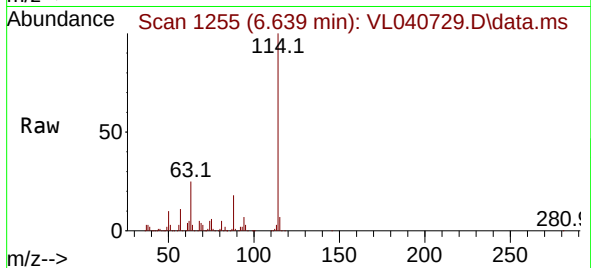
88 17.6 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#34

2-Butanone

Concen: 2.590 ppbv

RT: 4.783 min Scan# 678

Delta R.T. -0.006 min

Lab File: VL040729.D

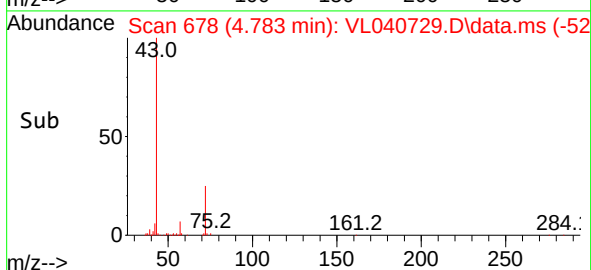
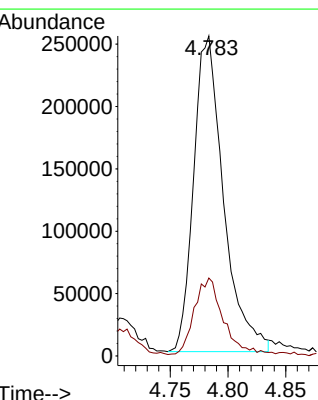
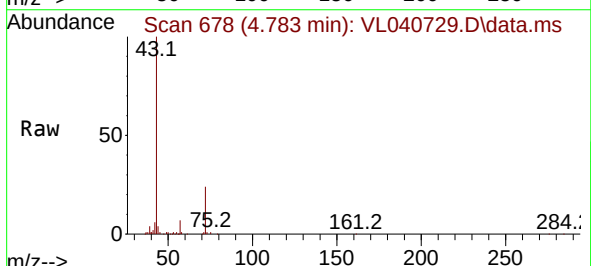
Acq: 27 Sep 2023 16:06

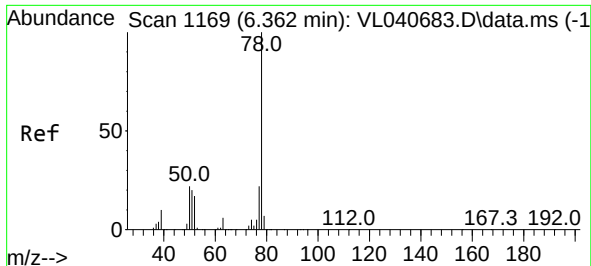
Tgt Ion: 43 Resp: 455172

Ion Ratio Lower Upper

43 100

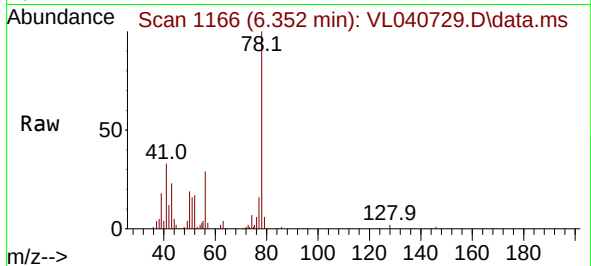
72 26.1 18.6 27.8





#36
Benzene
Concen: 0.323 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. -0.029 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

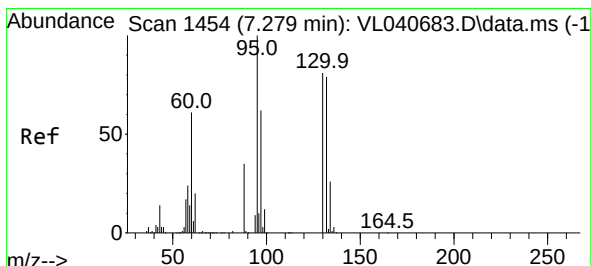
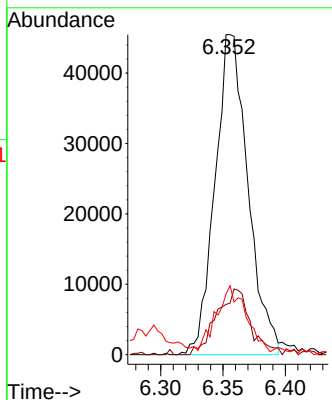
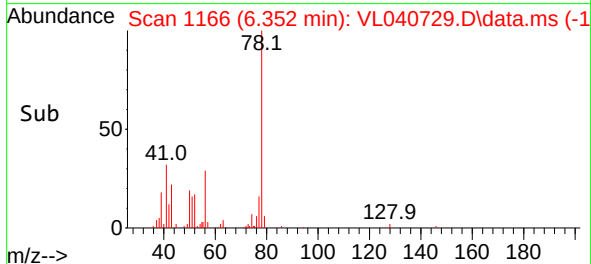
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



Tgt Ion: 78 Resp: 83609
Ion Ratio Lower Upper
78 100
77 15.7 17.9 26.9
50 16.6 17.3 25.9

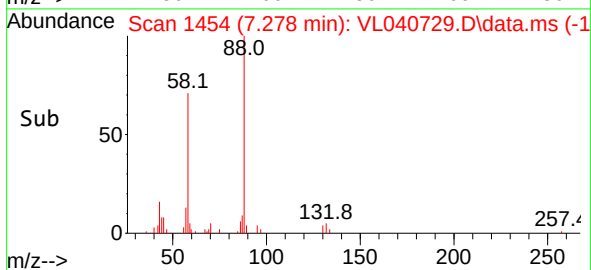
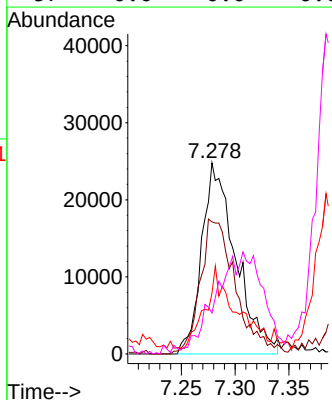
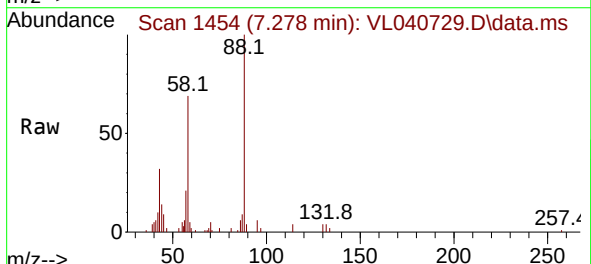
Manual Integrations
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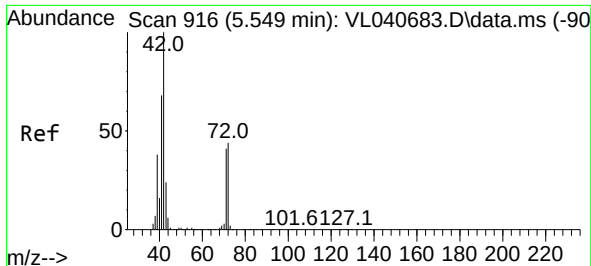
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#40
1,4-Dioxane
Concen: 1.447 ppbv m
RT: 7.278 min Scan# 1454
Delta R.T. -0.016 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Tgt Ion: 88 Resp: 54493
Ion Ratio Lower Upper
88 100
58 0.0 92.7 139.1
43 0.0 0.0 0.0
57 0.0 0.0 0.0





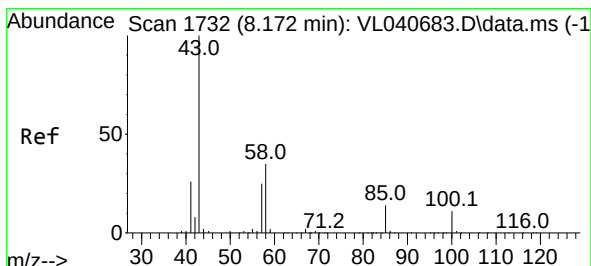
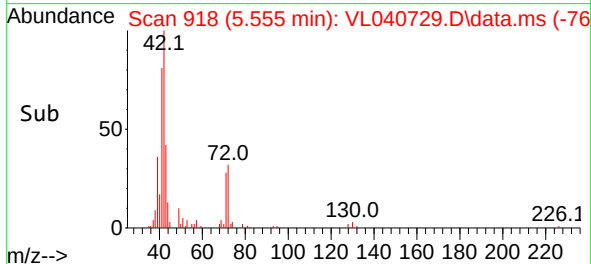
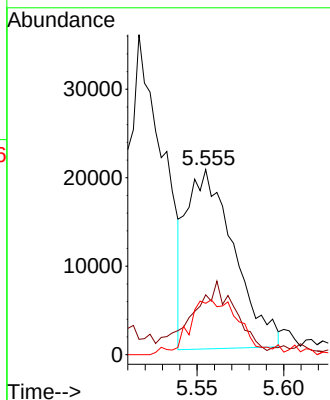
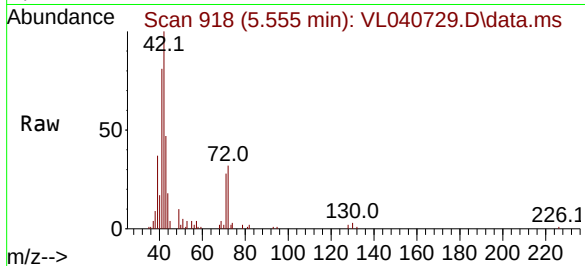
#41
Tetrahydrofuran
Concen: 0.429 ppbv
RT: 5.555 min Scan# 916
Delta R.T. -0.006 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP

Tgt Ion: 42 Resp: 38658
Ion Ratio Lower Upper
42 100
72 52.9 34.9 52.3
71 35.5 33.8 50.8

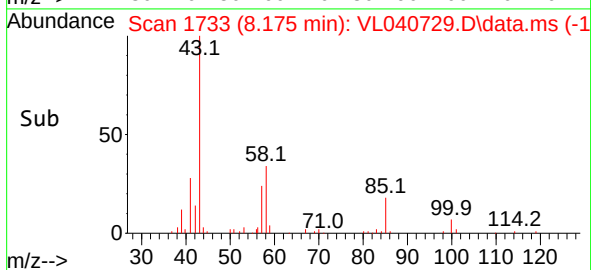
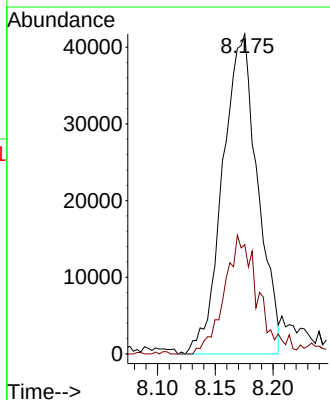
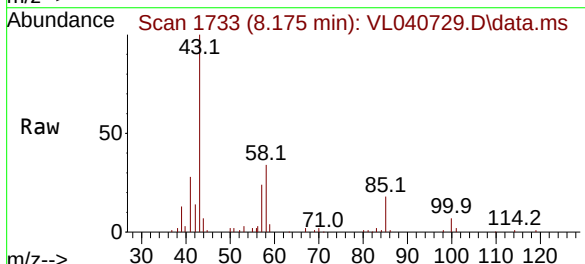
Manual Integrations
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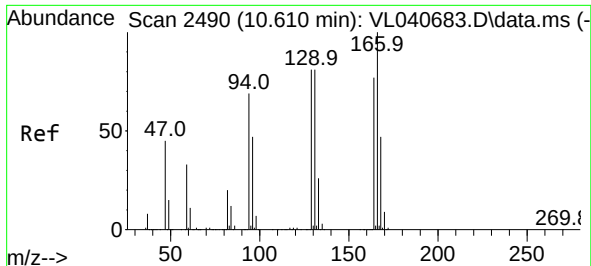
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#50
4-Methyl-2-Pentanone
Concen: 0.369 ppbv
RT: 8.175 min Scan# 1733
Delta R.T. -0.016 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

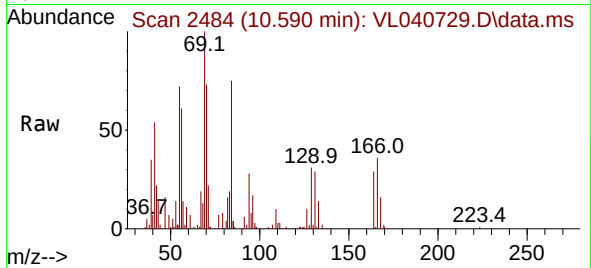
Tgt Ion: 43 Resp: 87723
Ion Ratio Lower Upper
43 100
58 38.0 28.2 42.4





#52
Tetrachloroethene
Concen: 0.211 ppbv m
RT: 10.590 min Scan# 2490
Delta R.T. -0.035 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

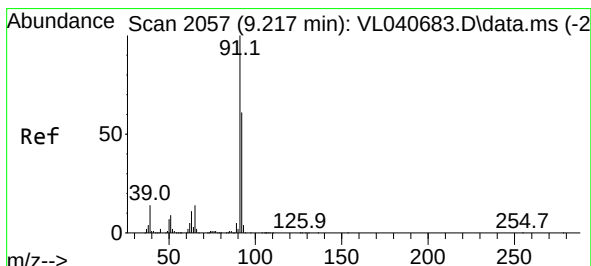
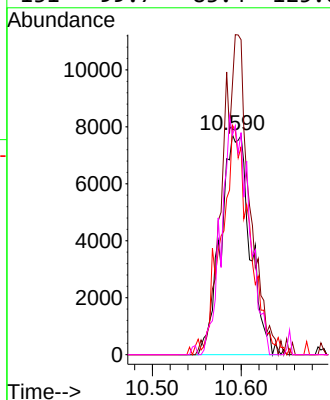
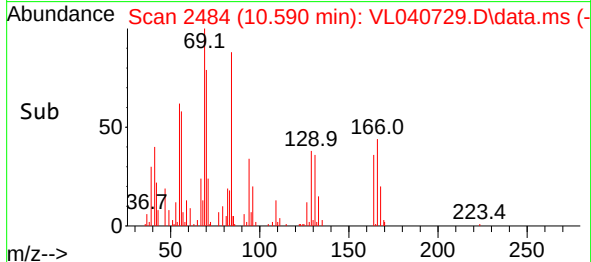
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



Tgt Ion:164 Resp: 1780
Ion Ratio Lower Upper
164 100
166 122.8 103.4 155.2
129 104.3 83.5 125.3
131 99.7 83.4 125.0

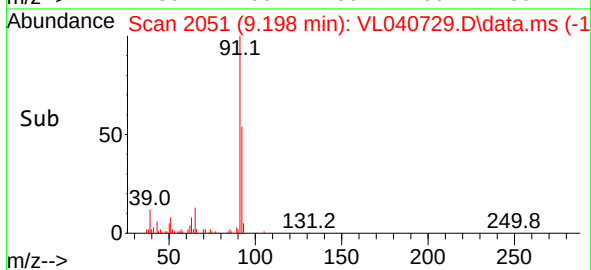
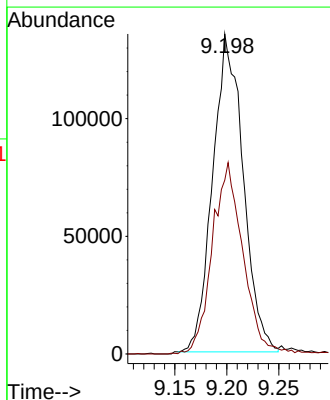
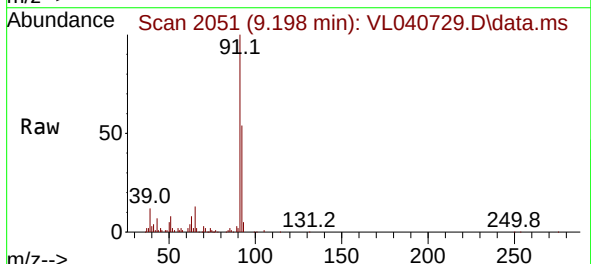
Manual Integrations
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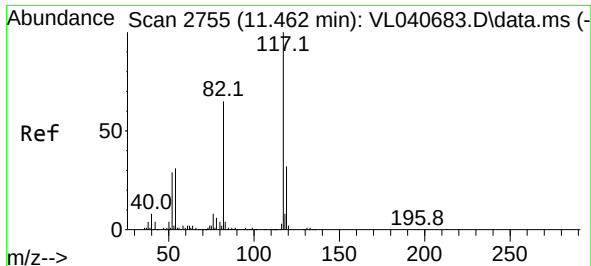
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#53
Toluene
Concen: 1.007 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. -0.032 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

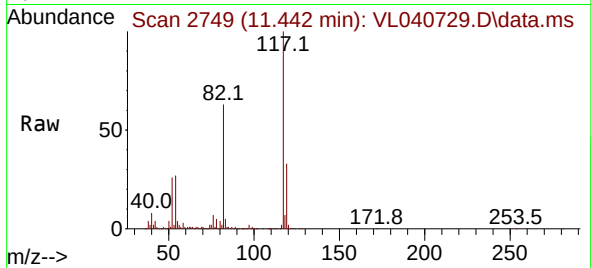
Tgt Ion: 91 Resp: 275224
Ion Ratio Lower Upper
91 100
92 61.2 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. -0.035 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

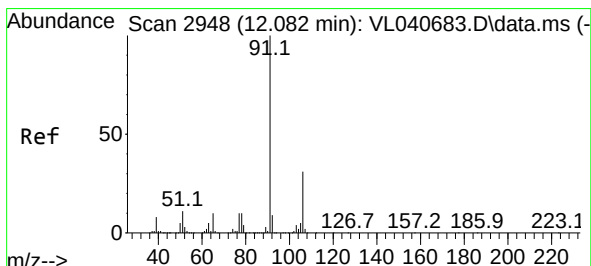
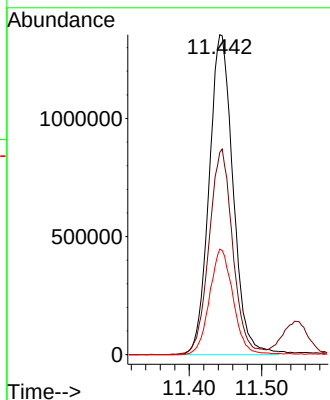
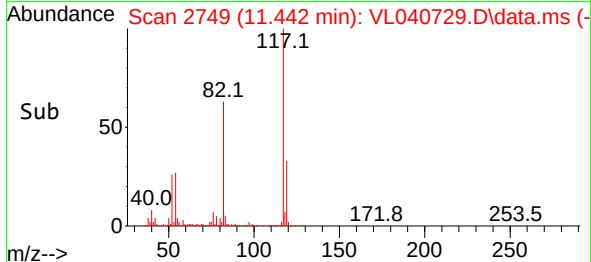
Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP



Tgt Ion:117 Resp: 310451
Ion Ratio Lower Upper
117 100
82 64.3 51.4 77.0
119 32.8 24.7 37.1

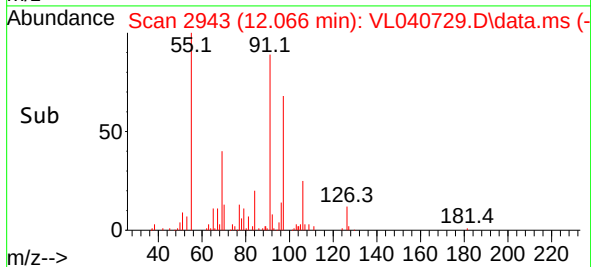
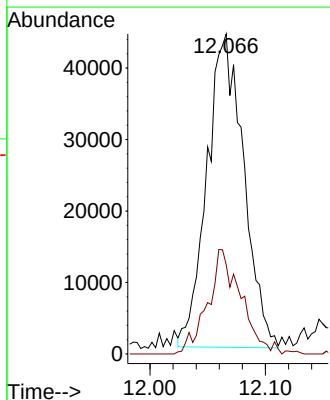
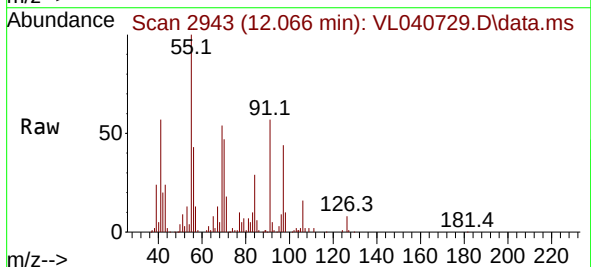
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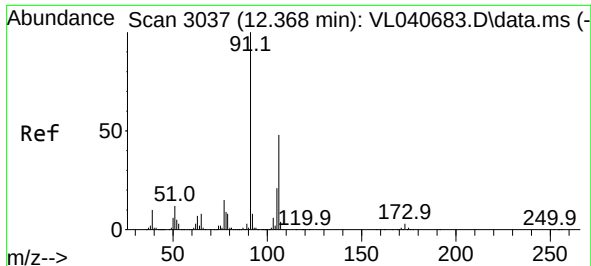
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#58
Ethyl Benzene
Concen: 0.274 ppbv
RT: 12.066 min Scan# 2943
Delta R.T. -0.035 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Tgt Ion: 91 Resp: 96872
Ion Ratio Lower Upper
91 100
106 27.3 24.7 37.1





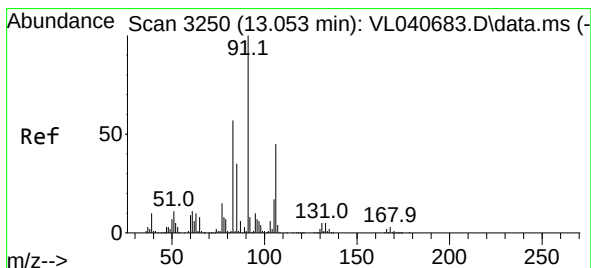
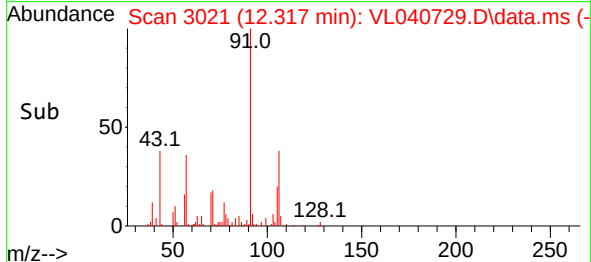
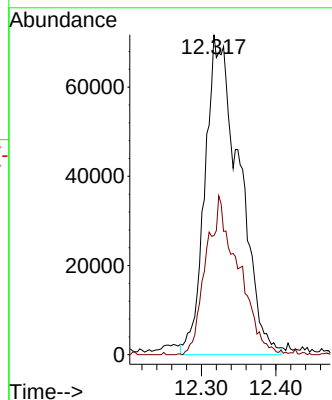
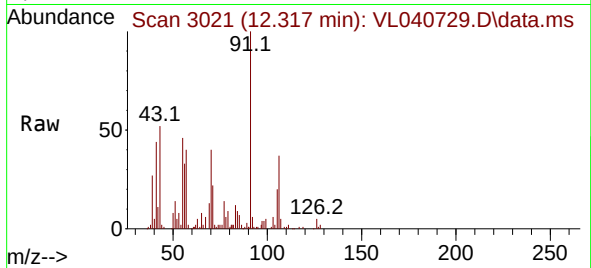
#59
m/p-Xylene
Concen: 0.691 ppbv m
RT: 12.317 min Scan# 3037
Delta R.T. -0.064 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Instrument :
MSVOA_L
ClientSampleId :
SSG2DUP

Tgt Ion: 91 Resp: 229634
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2

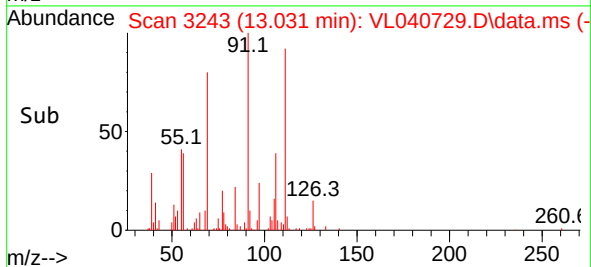
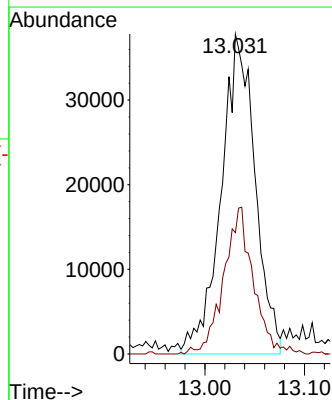
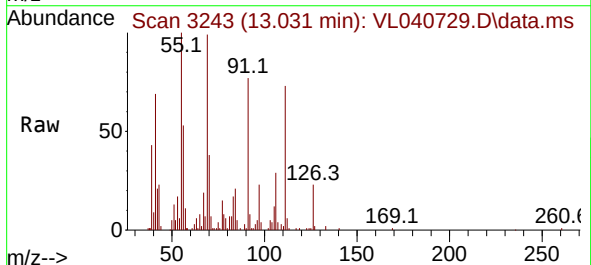
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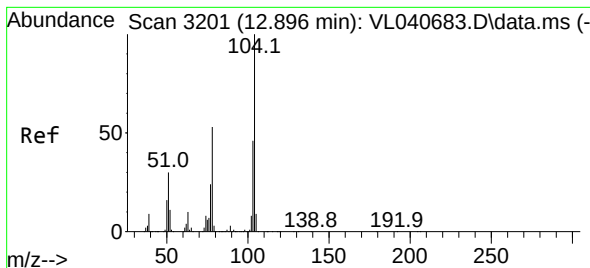
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#60
o-Xylene
Concen: 0.283 ppbv m
RT: 13.031 min Scan# 3243
Delta R.T. -0.039 min
Lab File: VL040729.D
Acq: 27 Sep 2023 16:06

Tgt Ion: 91 Resp: 89555
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9





#61

Styrene

Concen: 2.218 ppbv

RT: 12.873 min Scan# 3194

Delta R.T. -0.032 min

Lab File: VL040729.D

Acq: 27 Sep 2023 16:06

Instrument :

MSVOA_L

ClientSampleId :

SSG2DUP

Tgt Ion:104 Resp: 294678

Ion Ratio Lower Upper

104 100

78 51.6 43.4 65.0

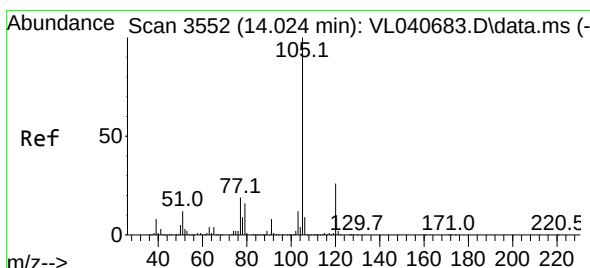
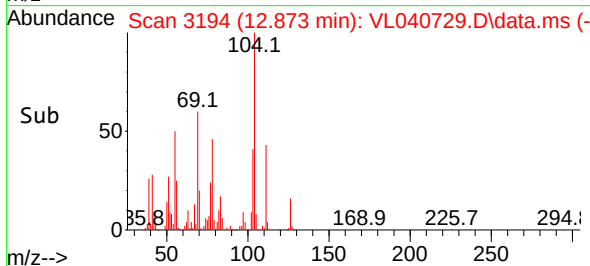
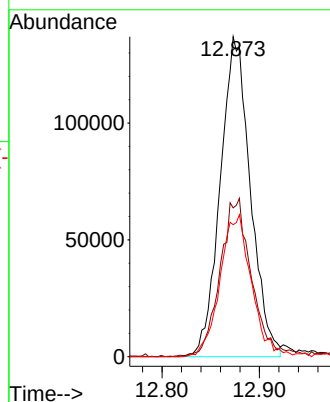
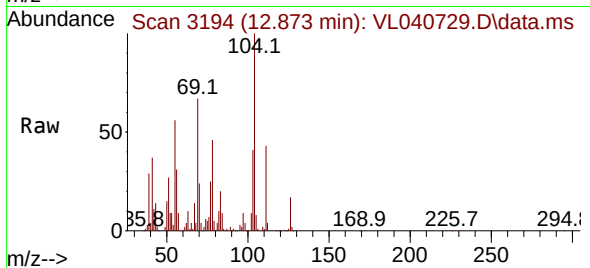
103 47.2 37.2 55.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#62

Isopropylbenzene

Concen: 2.100 ppbv

RT: 14.005 min Scan# 3546

Delta R.T. -0.032 min

Lab File: VL040729.D

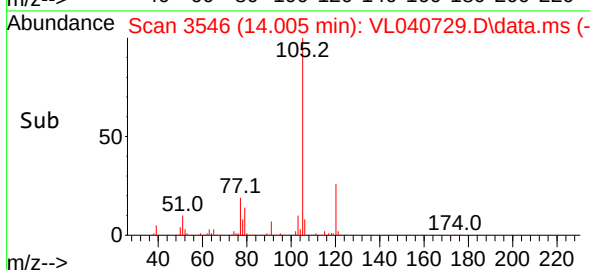
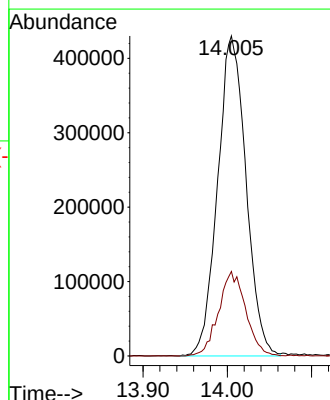
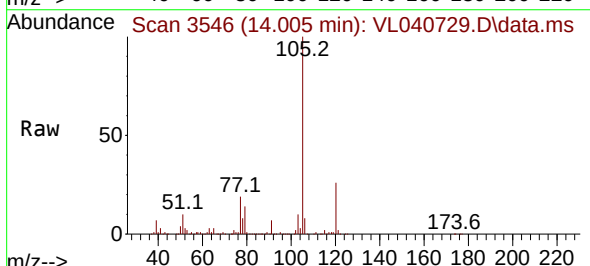
Acq: 27 Sep 2023 16:06

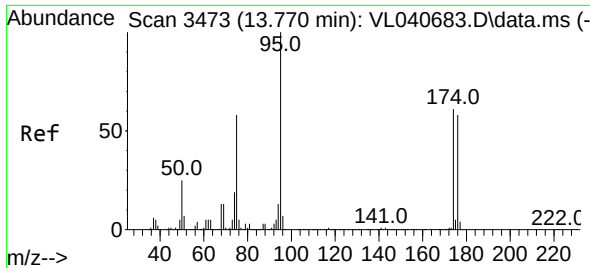
Tgt Ion:105 Resp: 1004897

Ion Ratio Lower Upper

105 100

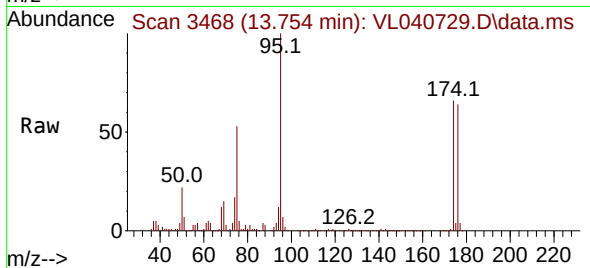
120 25.4 20.2 30.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.750 ppbv
 RT: 13.754 min Scan# 34
 Delta R.T. -0.032 min
 Lab File: VL040729.D
 Acq: 27 Sep 2023 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DUP



Tgt Ion: 95 Resp: 233870
 Ion Ratio Lower Upper
 95 100
 174 66.4 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

