

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040714.D
 Acq On : 19 Sep 2023 1:05
 Operator : SY/MD
 Sample : 04471-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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

Quant Time: Sep 19 05:24:59 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 18 2023

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	5.198	49	1379565	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3725187	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	3146210	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2315642	9.526	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.739	85	121998	0.401	ppbv	94
3) Chlorodifluoromethane	2.681	51	44540m	0.198	ppbv	
4) Chloromethane	2.822	50	43115	0.501	ppbv	91
10) Heptane	7.584	43	69289m	0.475	ppbv	
11) Trichlorofluoromethane	3.571	101	43258	0.162	ppbv	87
13) Ethanol	3.247	45	550662	28.734	ppbv	96
15) Acetone	3.475	43	1498072	8.233	ppbv	94
19) Isopropyl Alcohol	3.597	45	120947	1.103	ppbv #	1
20) Methylene Chloride	3.941	84	1369373	13.982	ppbv	95
26) Hexane	5.221	57	1161977	8.373	ppbv #	38
34) 2-Butanone	4.800	43	93279	0.498	ppbv	100
35) Carbon Tetrachloride	6.497	117	13283m	0.052	ppbv	
36) Benzene	6.372	78	116128m	0.421	ppbv	
44) 2,2,4-Trimethylpentane	7.336	57	314531	0.716	ppbv #	86
53) Toluene	9.227	91	1617923	5.555	ppbv	99
58) Ethyl Benzene	12.095	91	2009484	5.602	ppbv	99
59) m/p-Xylene	12.349	91	4154445	12.334	ppbv	94
60) o-Xylene	13.063	91	1447736	4.507	ppbv	98
62) Isopropylbenzene	14.034	105	79496	0.164	ppbv #	64
72) 4-Ethyltoluene	15.201	105	212772	0.591	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.362	105	185660	0.572	ppbv	91
74) 1,2,4-Trimethylbenzene	16.114	105	613704	1.552	ppbv #	62

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

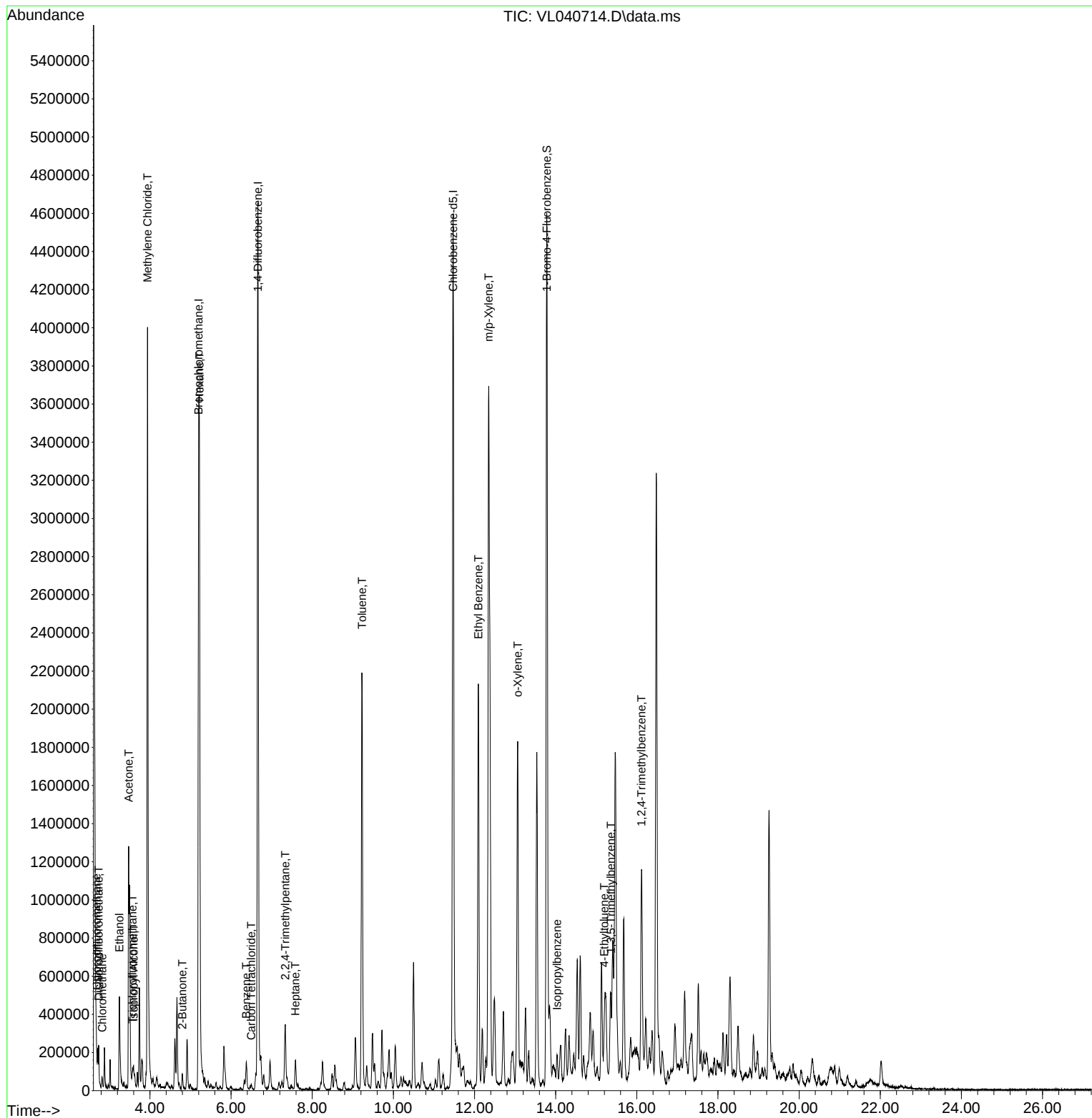
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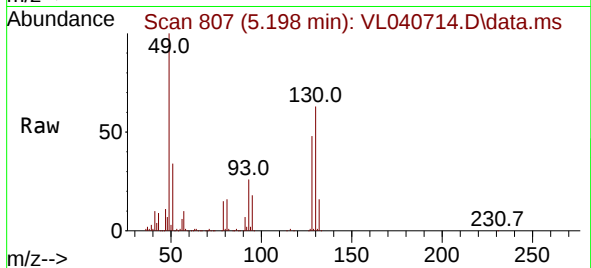
Reviewed By : Semsettin Yesilyurt 09/19/2023
Supervised By : Mahesh Dadoda 09/19/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

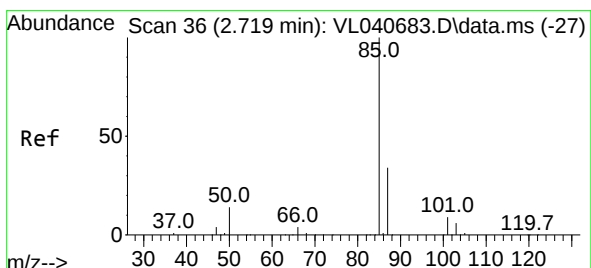
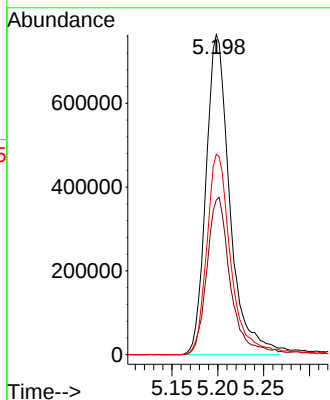
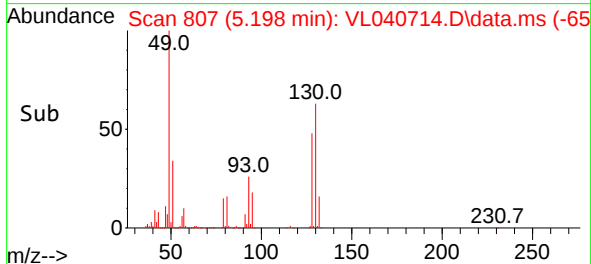
Instrument :
MSVOA_L
ClientSampleId :
OA1



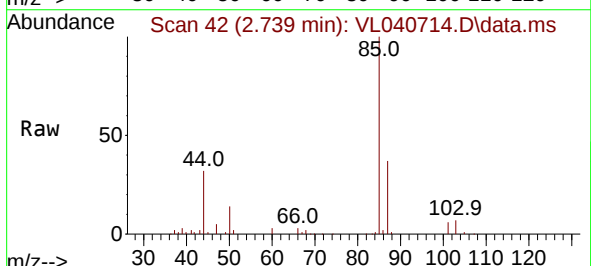
Tgt Ion: 49 Resp: 137956
Ion Ratio Lower Upper
49 100
128 49.8 25.4 76.0
130 64.8 32.3 96.8

Manual Integrations
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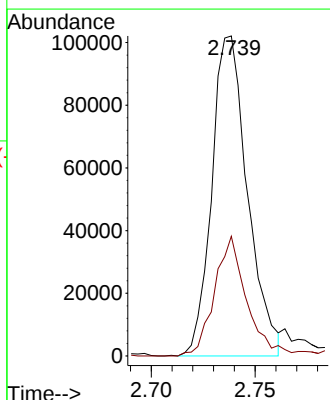
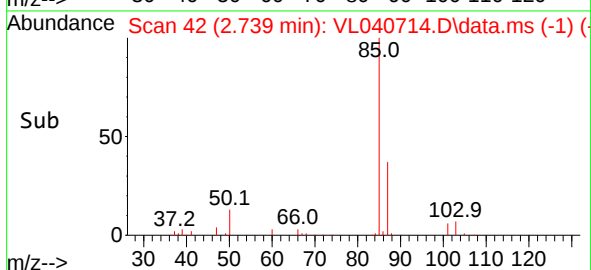
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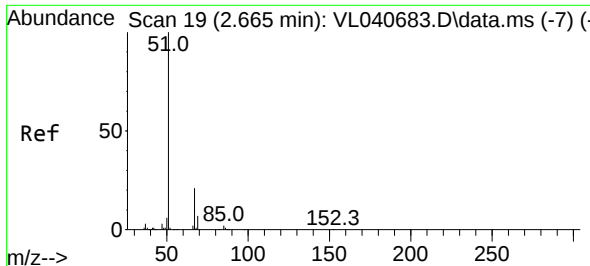


#2
Dichlorodifluoromethane
Concen: 0.401 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.007 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05



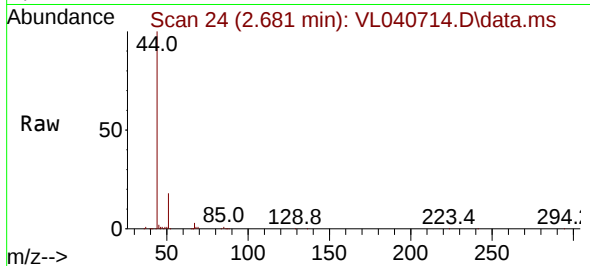
Tgt Ion: 85 Resp: 121998
Ion Ratio Lower Upper
85 100
87 37.4 27.2 40.8





#3
Chlorodifluoromethane
Concen: 0.198 ppbv m
RT: 2.681 min Scan# 24
Delta R.T. 0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

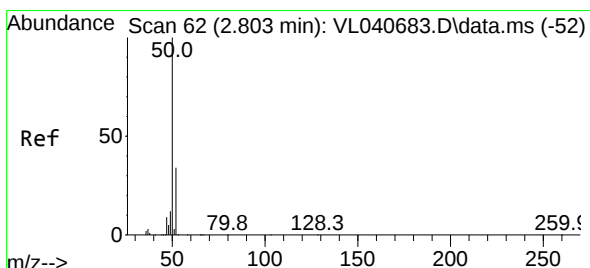
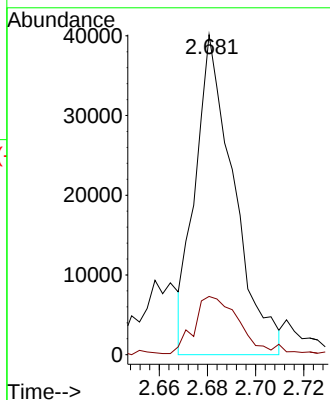
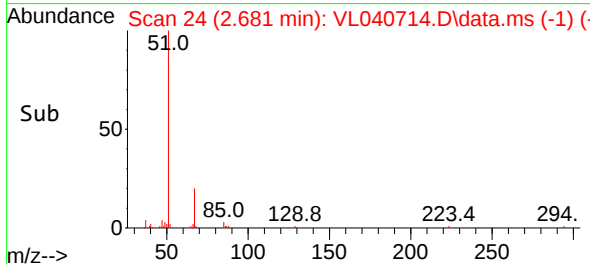
Instrument :
MSVOA_L
ClientSampleId :
OA1



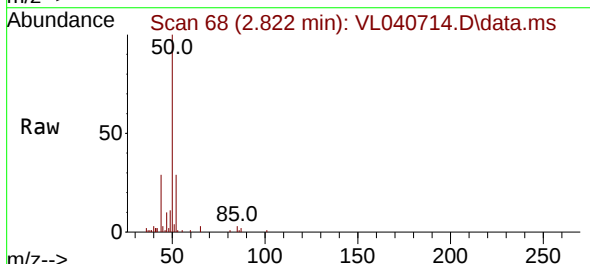
Tgt Ion: 51 Resp: 44540
Ion Ratio Lower Upper
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67 24.2 16.7 25.1

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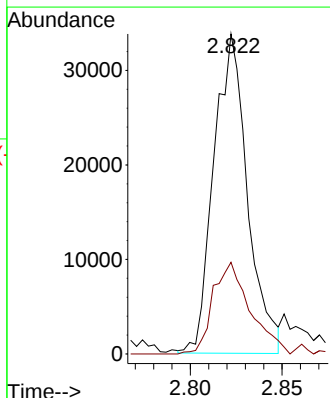
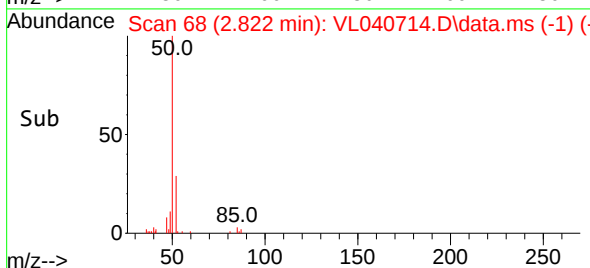
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

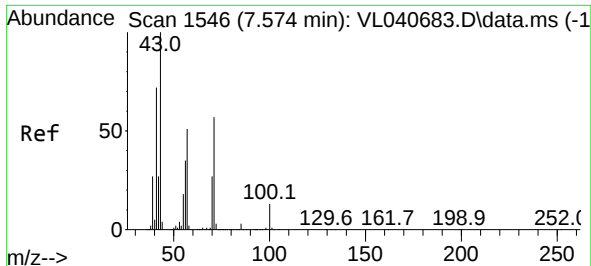


#4
Chloromethane
Concen: 0.501 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.007 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05



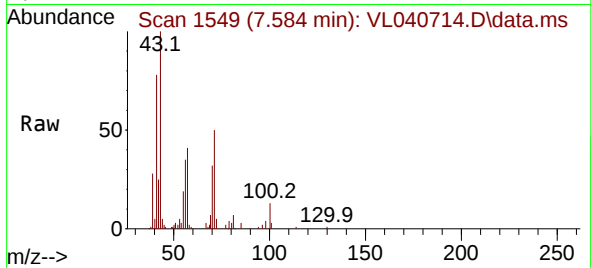
Tgt Ion: 50 Resp: 43115
Ion Ratio Lower Upper
50 100
52 29.0 27.1 40.7





#10
Heptane
Concen: 0.475 ppbv m
RT: 7.584 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

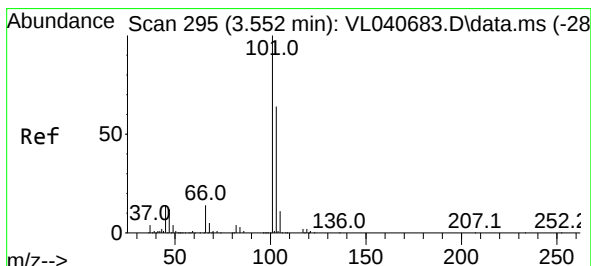
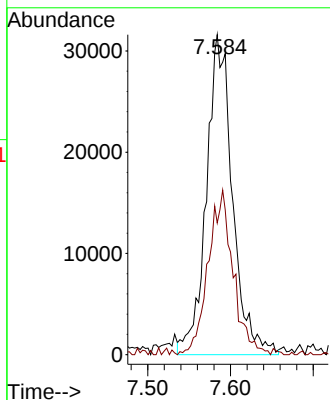
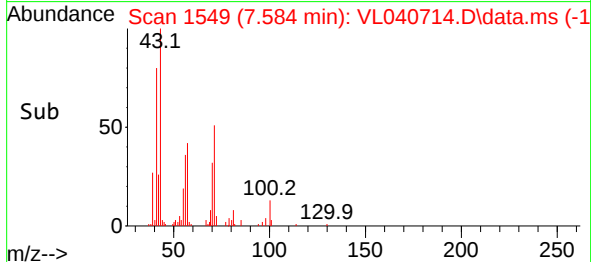
Instrument :
MSVOA_L
ClientSampleId :
OA1



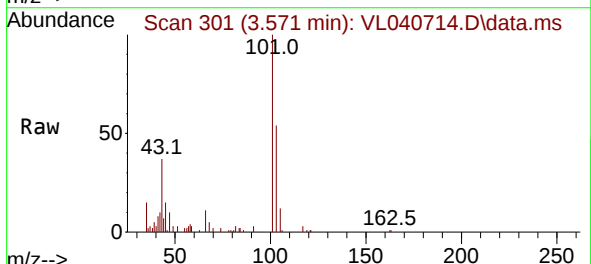
Tgt Ion: 43 Resp: 69289
Ion Ratio Lower Upper
43 100
57 0.0 41.8 62.6

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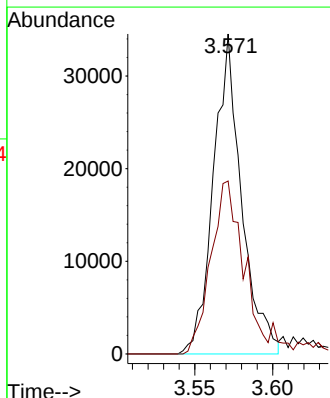
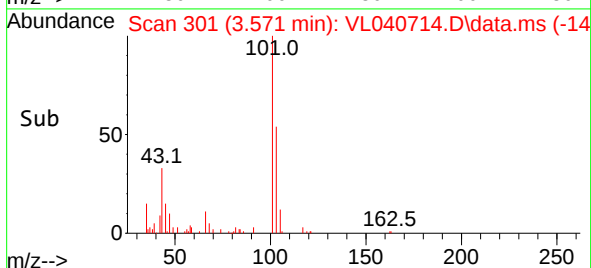
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

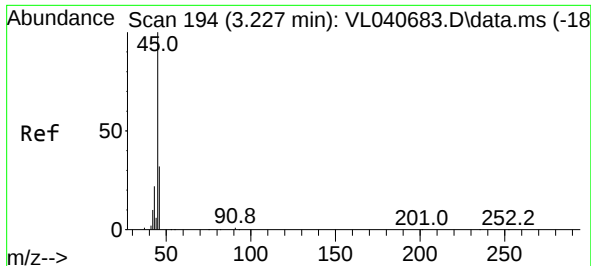


#11
Trichlorofluoromethane
Concen: 0.162 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05



Tgt Ion:101 Resp: 43258
Ion Ratio Lower Upper
101 100
103 54.0 51.3 76.9





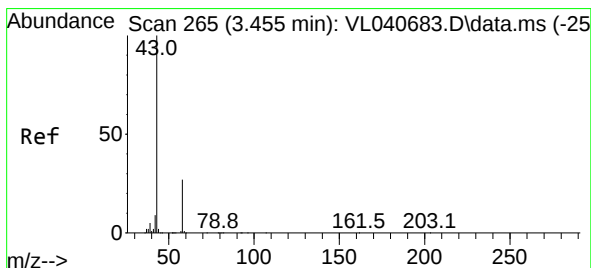
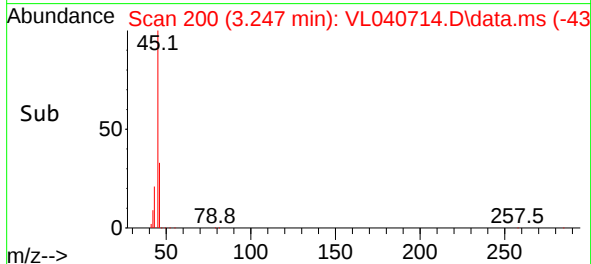
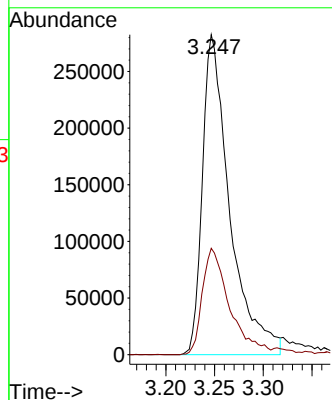
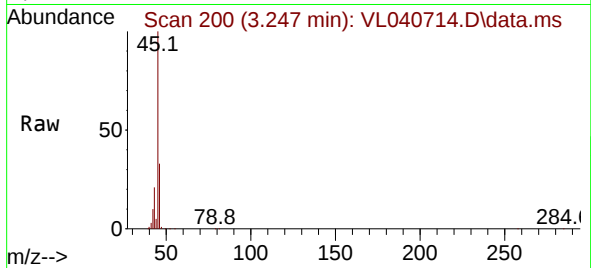
#13
Ethanol
Concen: 28.734 ppbv
RT: 3.247 min Scan# 200
Delta R.T. 0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 550662
Ion Ratio Lower Upper
45 100
46 35.8 15.2 61.0

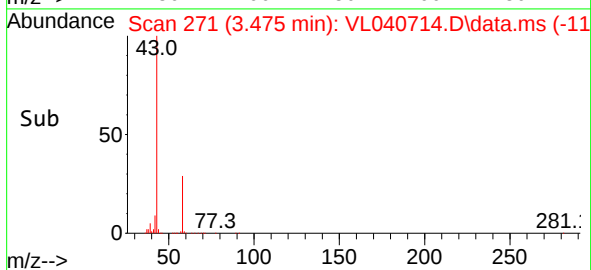
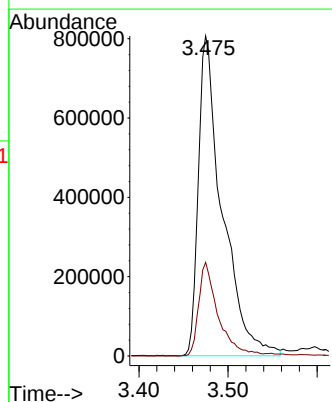
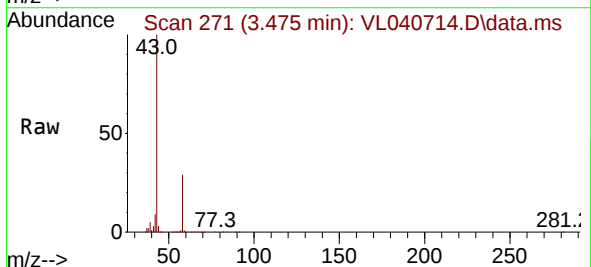
Manual Integrations
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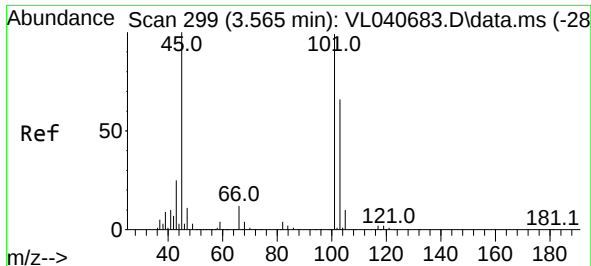
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#15
Acetone
Concen: 8.233 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Tgt Ion: 43 Resp: 1498072
Ion Ratio Lower Upper
43 100
58 25.0 22.6 34.0





#19

Isopropyl Alcohol

Concen: 1.103 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.019 min

Lab File: VL040714.D

Acq: 19 Sep 2023 1:05

Instrument :

MSVOA_L

ClientSampleId :

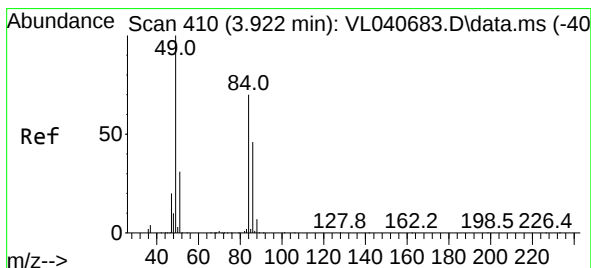
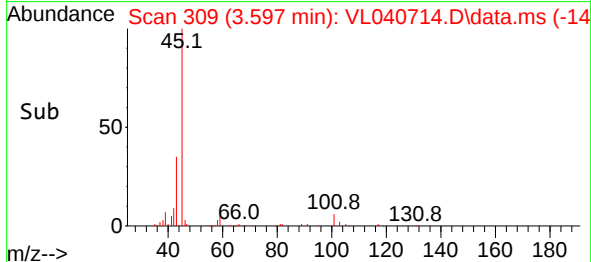
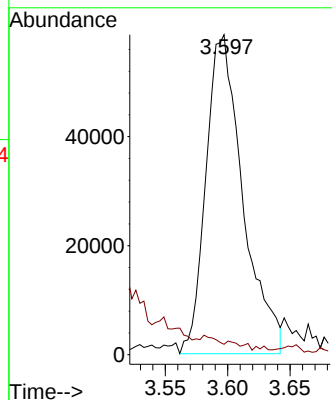
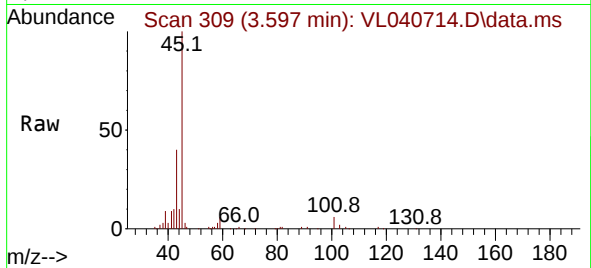
OA1

Tgt Ion: 45 Resp: 120945
 Ion Ratio Lower Upper
 45 100
 58 309.6 1.9 2.9

Manual Integrations

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



#20

Methylene Chloride

Concen: 13.982 ppbv

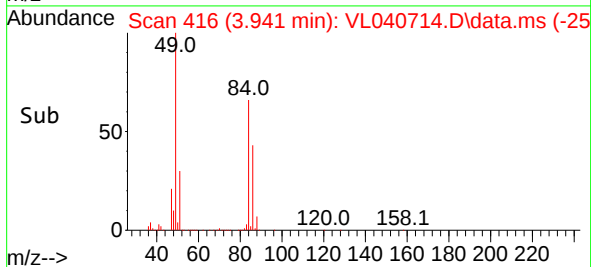
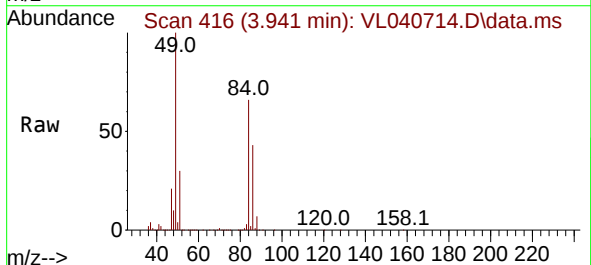
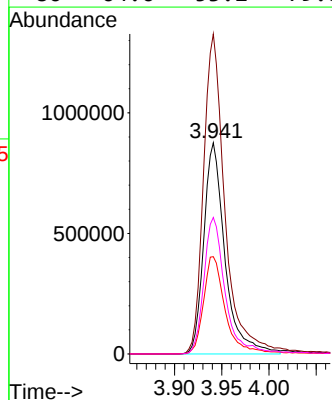
RT: 3.941 min Scan# 416

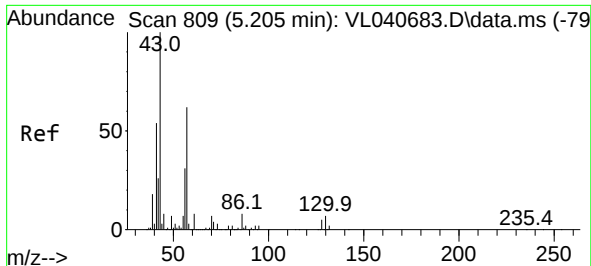
Delta R.T. 0.003 min

Lab File: VL040714.D

Acq: 19 Sep 2023 1:05

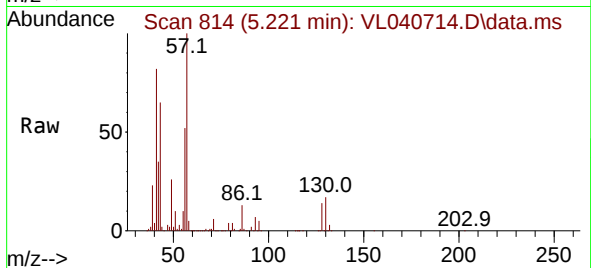
Tgt Ion: 84 Resp: 1369373
 Ion Ratio Lower Upper
 84 100
 49 151.5 114.4 171.6
 51 45.8 35.5 53.3
 86 64.6 53.2 79.8





#26
Hexane
Concen: 8.373 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

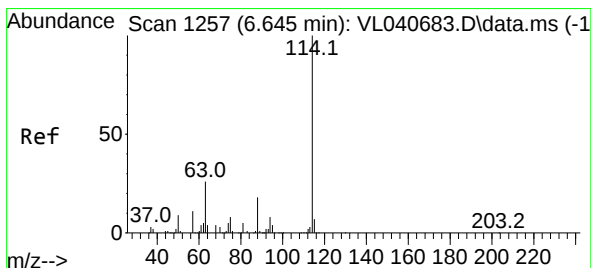
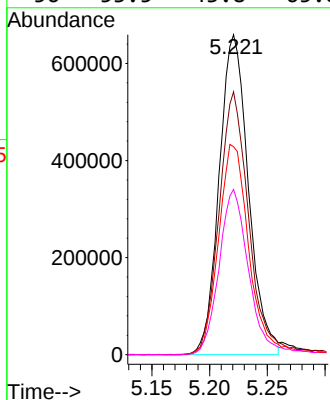
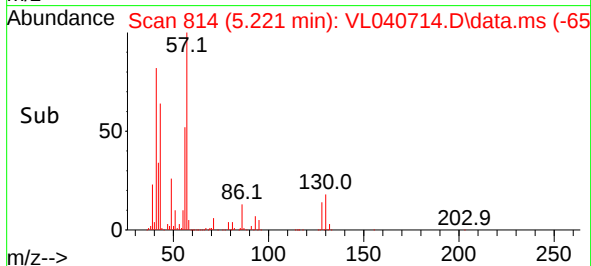
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OA1



Tgt Ion: 57 Resp: 116197
Ion Ratio Lower Upper
57 100
41 85.2 75.2 112.8
43 69.5 185.6 278.4
56 53.5 43.8 65.8

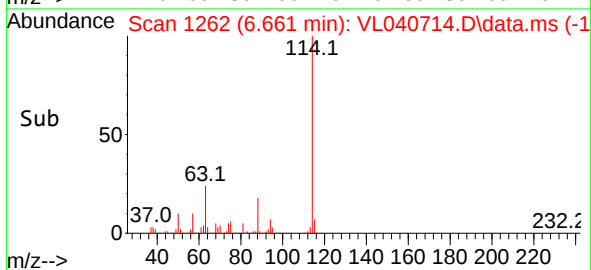
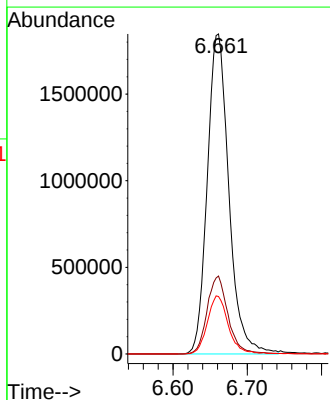
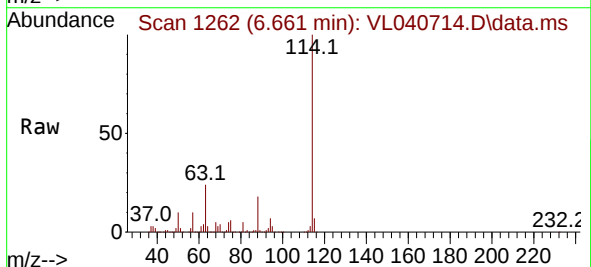
Manual Integrations
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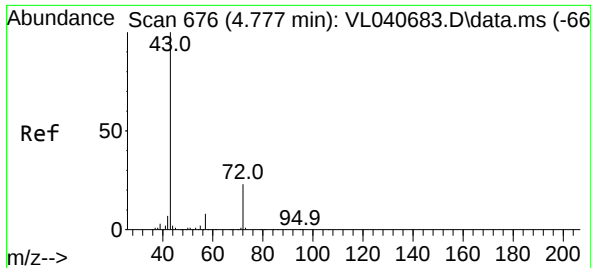
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.000 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

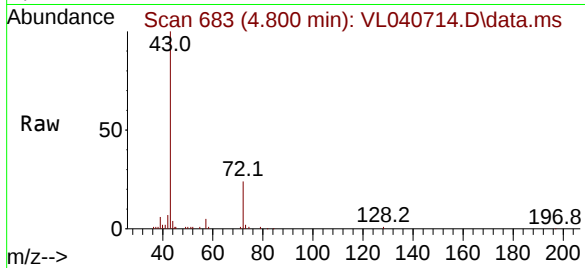
Tgt Ion:114 Resp: 3725187
Ion Ratio Lower Upper
114 100
63 23.9 21.1 31.7
88 17.7 14.5 21.7





#34
2-Butanone
Concen: 0.498 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

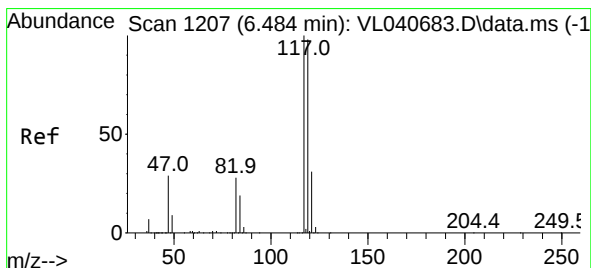
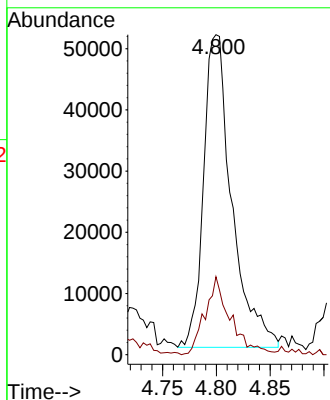
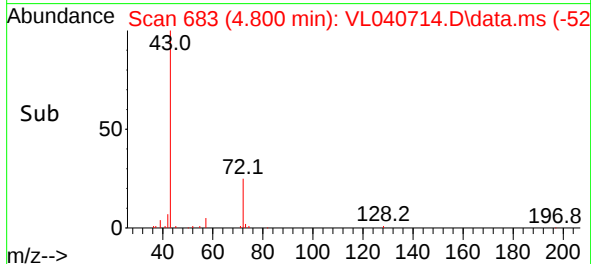
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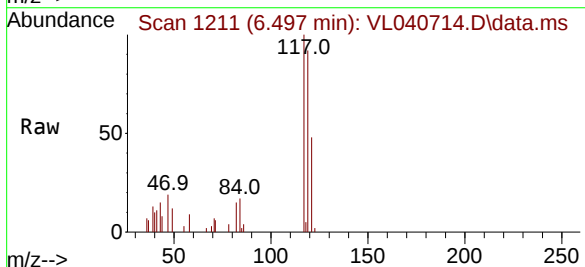
Tgt Ion: 43 Resp: 93279
Ion Ratio Lower Upper
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72 23.2 18.6 27.8

Manual Integrations
APPROVED

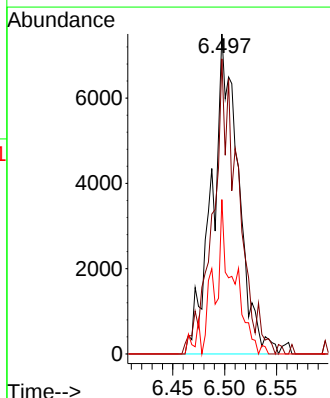
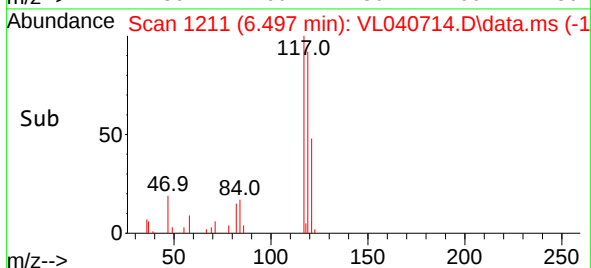
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

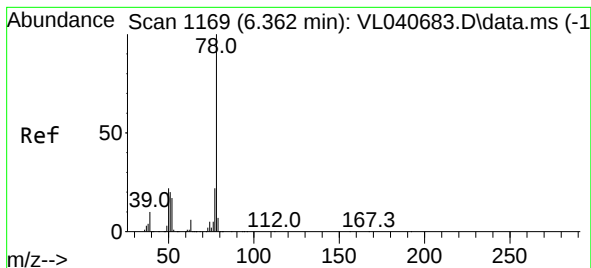


#35
Carbon Tetrachloride
Concen: 0.052 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05



Tgt Ion:117 Resp: 13283
Ion Ratio Lower Upper
117 100
119 92.2 78.6 117.8
121 48.2 24.7 37.1#





#36

Benzene

Concen: 0.421 ppbv m

RT: 6.372 min Scan# 116128

Delta R.T. -0.010 min

Lab File: VL040714.D

Acq: 19 Sep 2023 1:05

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 78 Resp: 116128

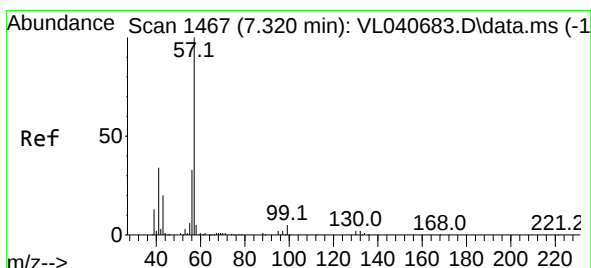
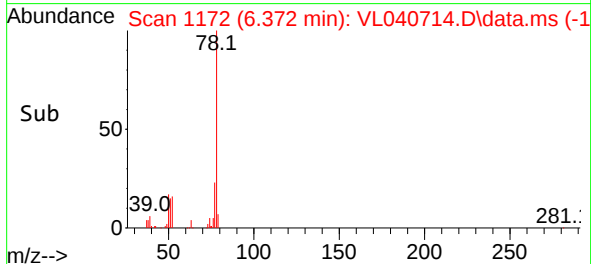
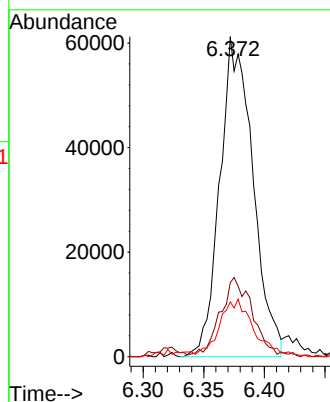
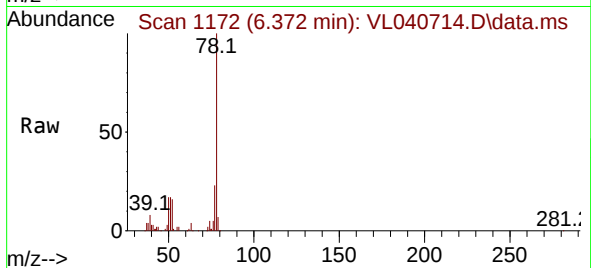
Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.9	26.9
50	17.2	17.3	25.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#44

2,2,4-Trimethylpentane

Concen: 0.716 ppbv

RT: 7.336 min Scan# 1472

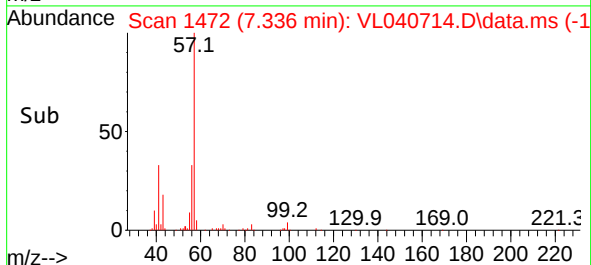
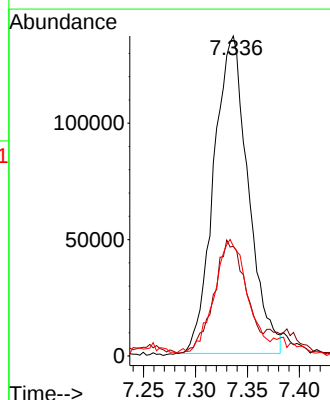
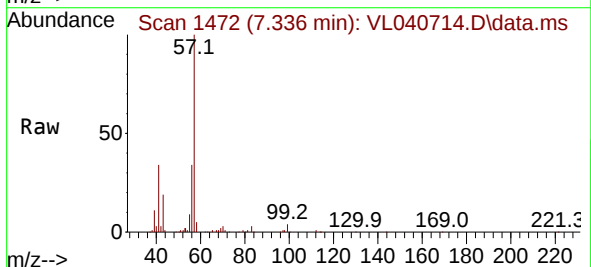
Delta R.T. 0.000 min

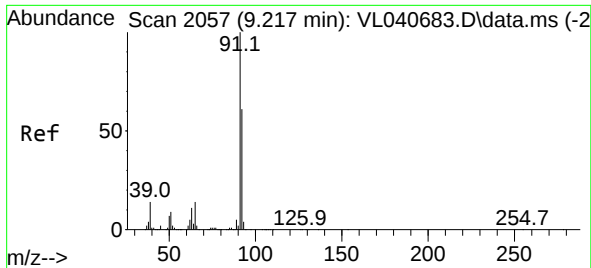
Lab File: VL040714.D

Acq: 19 Sep 2023 1:05

Tgt Ion: 57 Resp: 314531

Ion	Ratio	Lower	Upper
57	100		
41	43.2	28.5	42.7#
56	40.2	25.4	38.2#





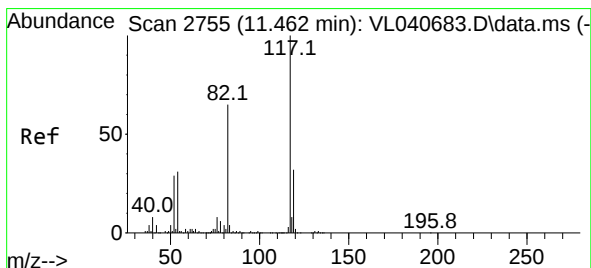
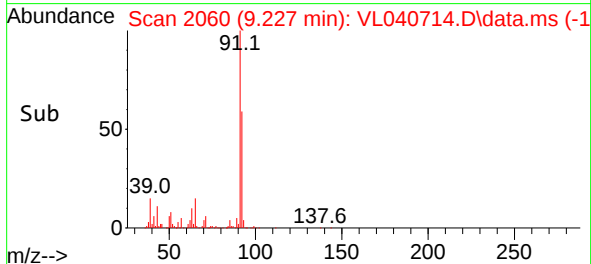
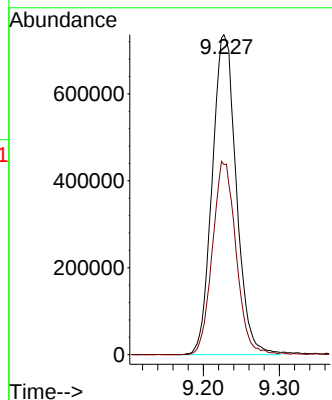
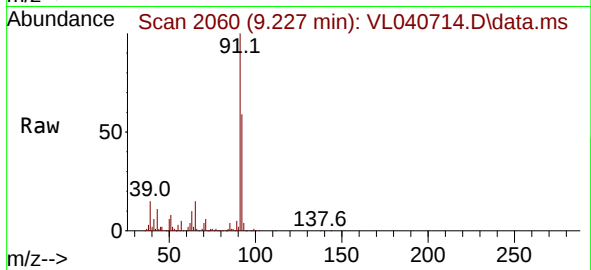
#53
Toluene
Concen: 5.555 ppbv
RT: 9.227 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 161792
Ion Ratio Lower Upper
91 100
92 59.6 48.5 72.7

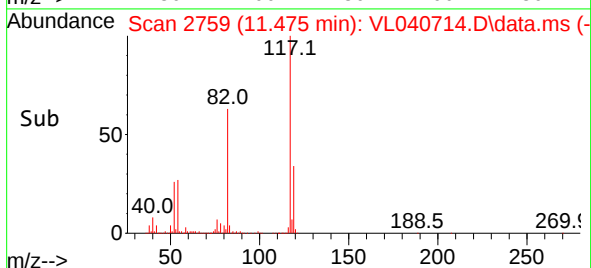
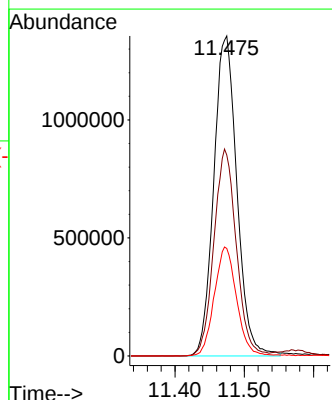
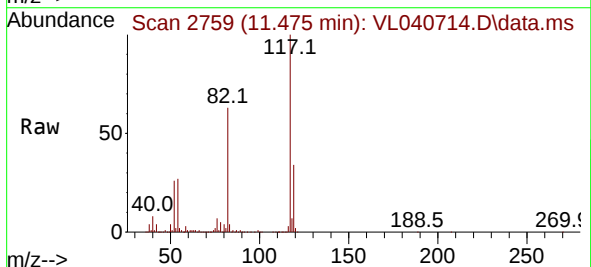
Manual Integrations
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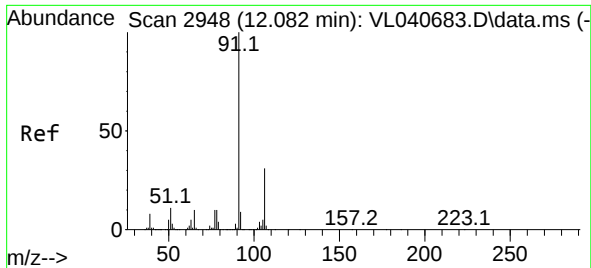
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 2759
Delta R.T. -0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Tgt Ion:117 Resp: 3146210
Ion Ratio Lower Upper
117 100
82 62.9 51.4 77.0
119 33.1 24.7 37.1





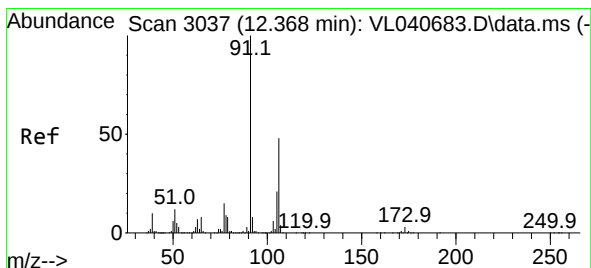
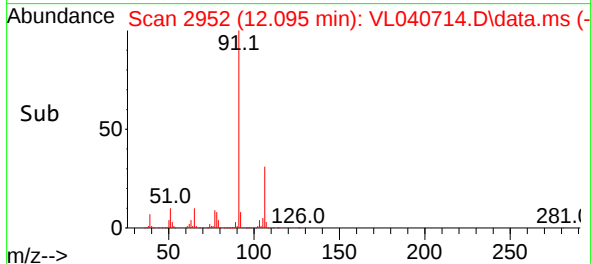
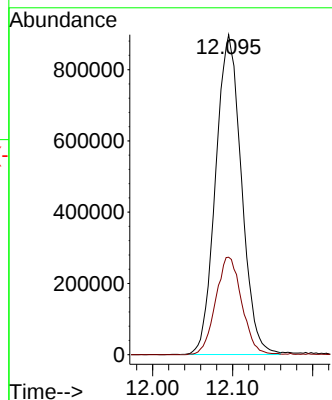
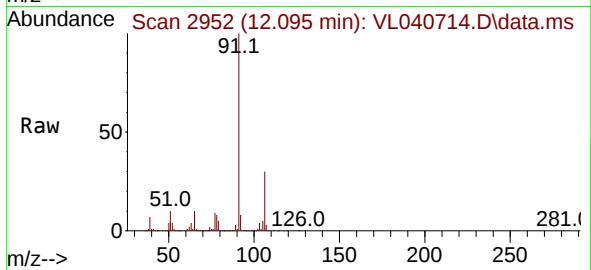
#58
Ethyl Benzene
Concen: 5.602 ppbv
RT: 12.095 min Scan# 2948
Delta R.T. -0.006 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 200948
Ion Ratio Lower Upper
91 100
106 30.5 24.7 37.1

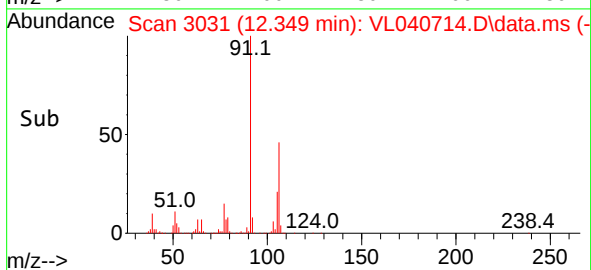
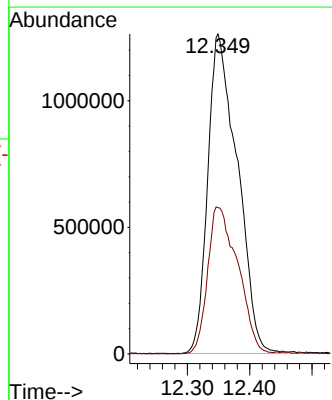
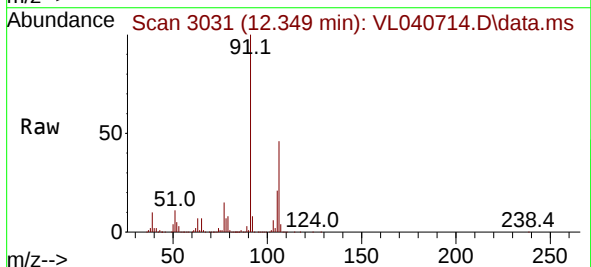
Manual Integrations
APPROVED

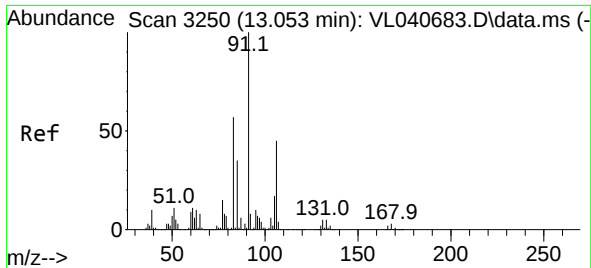
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#59
m/p-Xylene
Concen: 12.334 ppbv
RT: 12.349 min Scan# 3031
Delta R.T. -0.032 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Tgt Ion: 91 Resp: 4154445
Ion Ratio Lower Upper
91 100
106 47.4 34.8 52.2





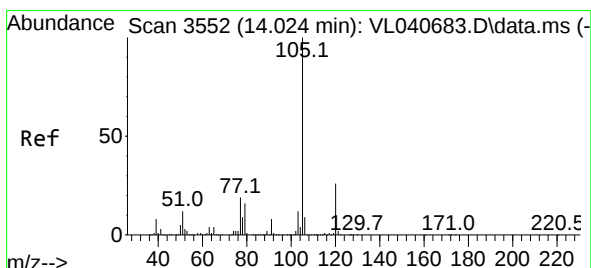
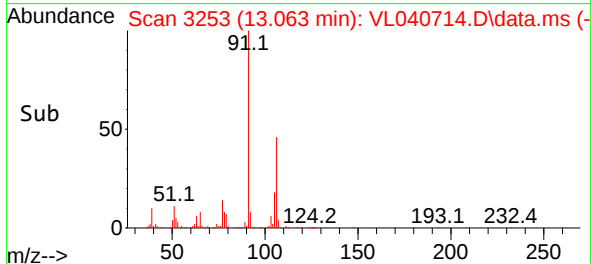
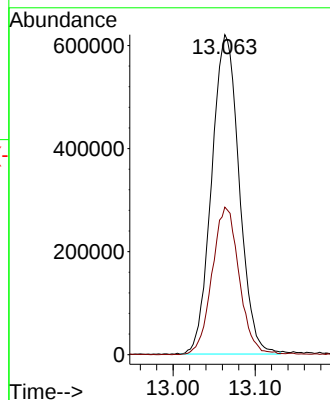
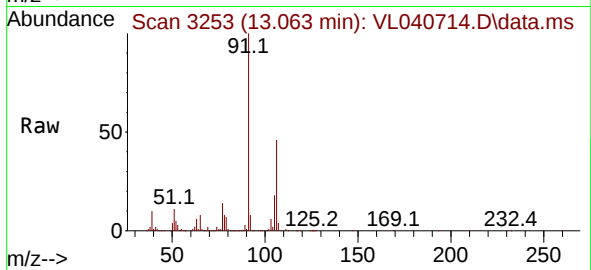
#60
o-Xylene
Concen: 4.507 ppbv
RT: 13.063 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 1447730
Ion Ratio Lower Upper
91 100
106 45.8 22.3 66.9

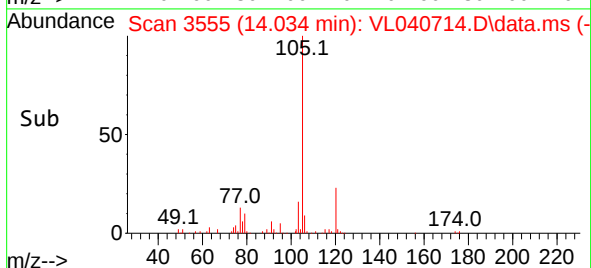
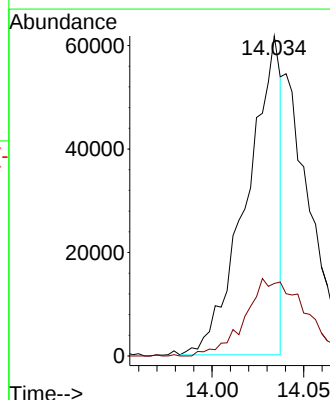
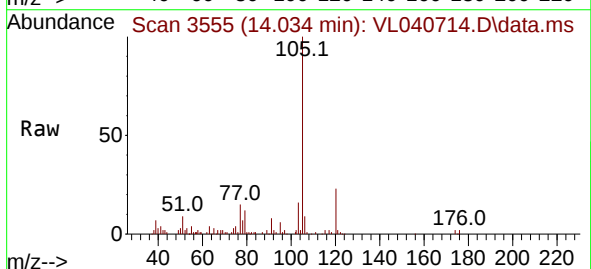
Manual Integrations
APPROVED

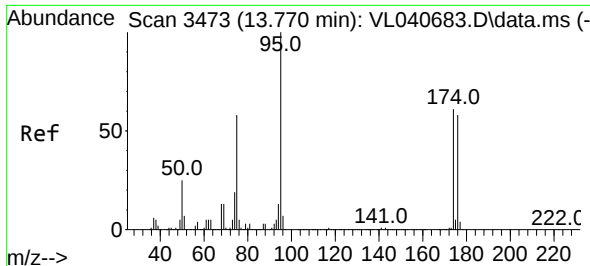
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#62
Isopropylbenzene
Concen: 0.164 ppbv
RT: 14.034 min Scan# 3555
Delta R.T. -0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

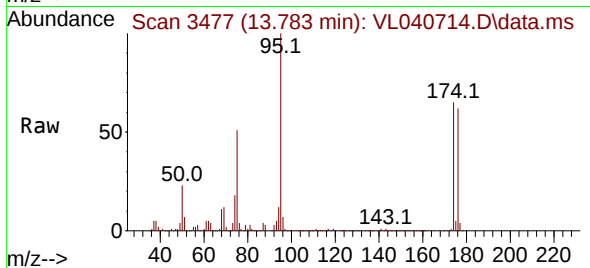
Tgt Ion:105 Resp: 79496
Ion Ratio Lower Upper
105 100
120 43.6 20.2 30.4#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 13.783 min Scan# 3473
Delta R.T. -0.003 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05

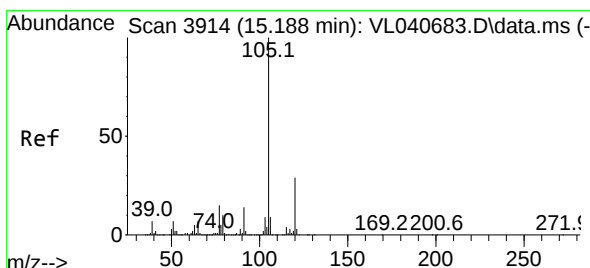
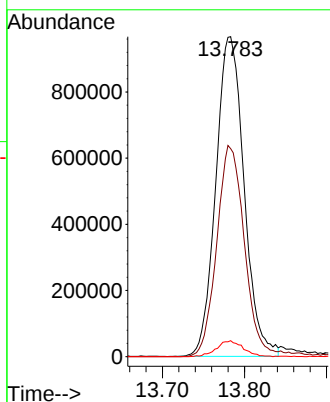
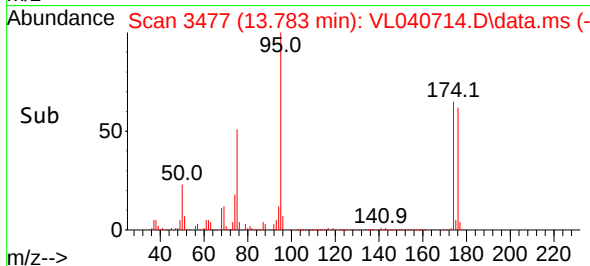
Instrument :
MSVOA_L
ClientSampleId :
OA1



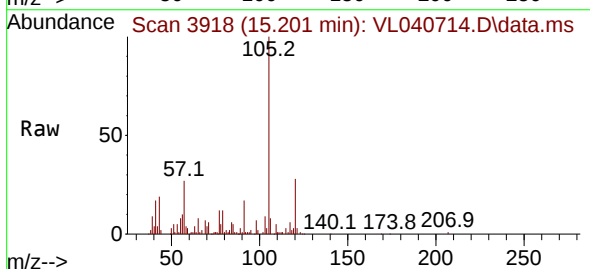
Tgt Ion: 95 Resp: 231564
Ion Ratio Lower Upper
95 100
174 65.8 48.9 73.3
175 4.8 3.5 5.3

Manual Integrations
APPROVED

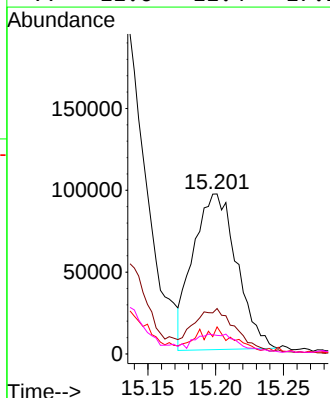
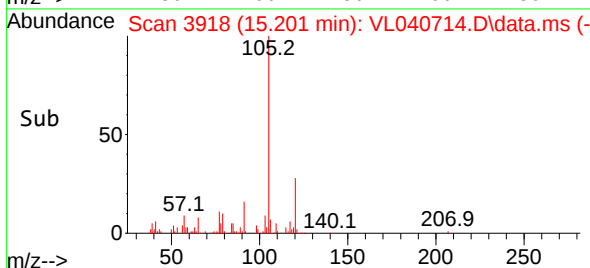
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

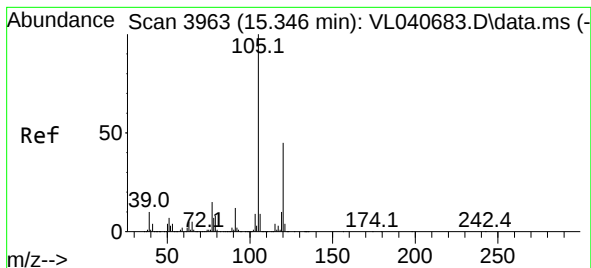


#72
4-Ethyltoluene
Concen: 0.591 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. 0.000 min
Lab File: VL040714.D
Acq: 19 Sep 2023 1:05



Tgt Ion:105 Resp: 212772
Ion Ratio Lower Upper
105 100
120 31.6 23.9 35.9
91 16.5 11.0 16.4#
77 11.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.572 ppbv

RT: 15.362 min Scan# 3963

Delta R.T. 0.000 min

Lab File: VL040714.D

Acq: 19 Sep 2023 1:05

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:105 Resp: 185660

Ion Ratio Lower Upper

105 100

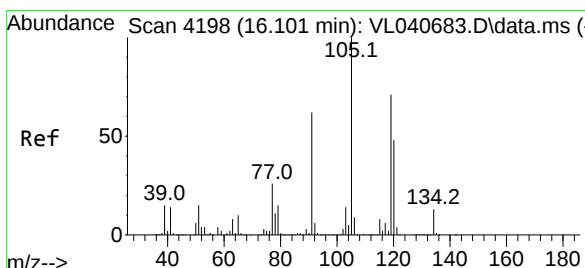
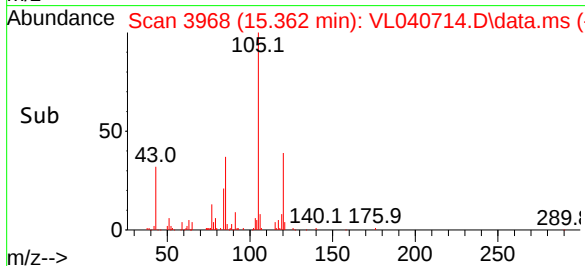
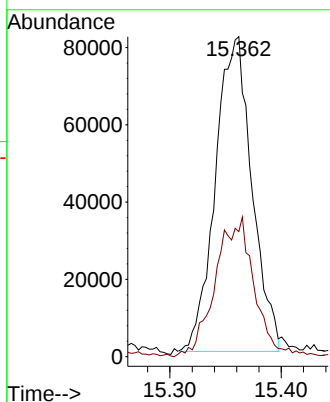
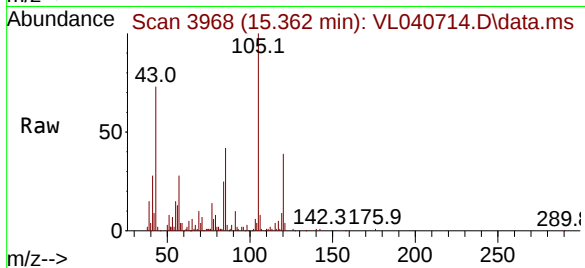
120 39.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#74

1,2,4-Trimethylbenzene

Concen: 1.552 ppbv

RT: 16.114 min Scan# 4202

Delta R.T. -0.003 min

Lab File: VL040714.D

Acq: 19 Sep 2023 1:05

Tgt Ion:105 Resp: 613704

Ion Ratio Lower Upper

105 100

120 42.2 38.6 57.8

91 11.3 50.0 75.0#

77 13.5 20.6 31.0#

