

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040770.D
 Acq On : 12 Oct 2023 00:33
 Operator : SY/MD
 Sample : 04827-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2023
 Supervised By :Mahesh Dadoda 10/16/2023

Quant Time: Oct 13 01:21:42 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	863339	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2434442	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2198974	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1615892	9.987	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.761	85	86154	0.567	ppbv	95
3) Chlorodifluoromethane	2.706	51	37899m	0.299	ppbv	
4) Chloromethane	2.844	50	26940	0.538	ppbv	98
9) Propene	2.735	41	42606m	0.904	ppbv	
10) Heptane	7.587	43	18364	0.155	ppbv	96
11) Trichlorofluoromethane	3.587	101	27858	0.237	ppbv	99
13) Ethanol	3.269	45	158345	14.885	ppbv	97
15) Acetone	3.497	43	551973	6.184	ppbv	95
19) Isopropyl Alcohol	3.613	45	118435	2.061	ppbv #	1
20) Methylene Chloride	3.957	84	64202	1.727	ppbv	96
26) Hexane	5.230	57	113635	1.271	ppbv #	49
34) 2-Butanone	4.819	43	40738	0.370	ppbv	95
35) Carbon Tetrachloride	6.507	117	12074m	0.088	ppbv	
36) Benzene	6.385	78	48019	0.256	ppbv #	91
52) Tetrachloroethene	10.622	164	2723m	0.036	ppbv	
53) Toluene	9.230	91	180793	0.811	ppbv	97
58) Ethyl Benzene	12.095	91	28228m	0.102	ppbv	
59) m/p-Xylene	12.346	91	77255m	0.339	ppbv	
60) o-Xylene	13.066	91	52768m	0.243	ppbv	
62) Isopropylbenzene	14.034	105	43218m	0.129	ppbv	
64) n-propylbenzene	14.921	120	44858m	0.500	ppbv	
72) 4-Ethyltoluene	15.198	105	289556	1.139	ppbv	100
73) 1,3,5-Trimethylbenzene	15.355	105	208515	0.931	ppbv	97
74) 1,2,4-Trimethylbenzene	16.111	105	541403	2.214	ppbv #	72

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

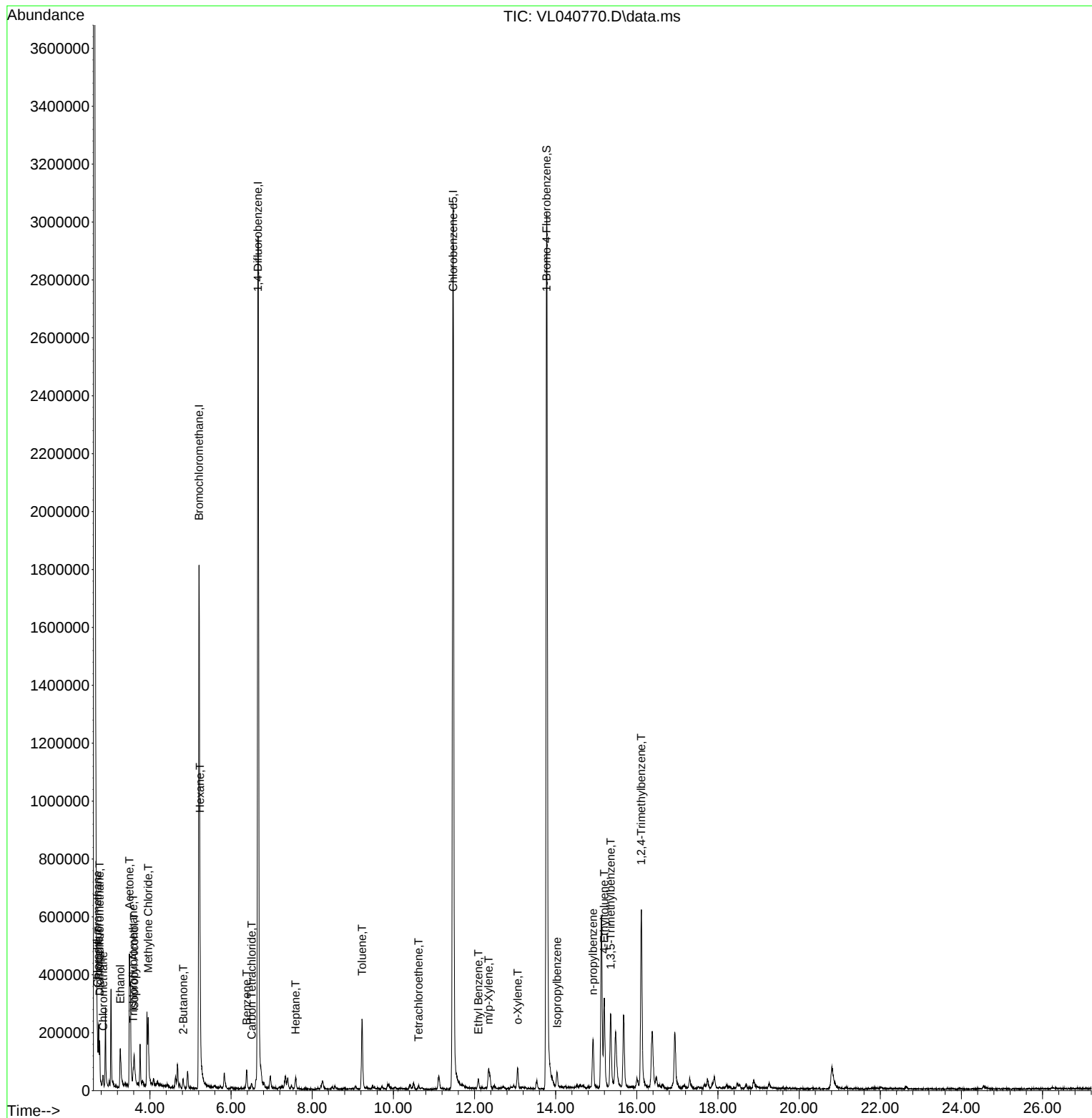
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
Data File : VL040770.D
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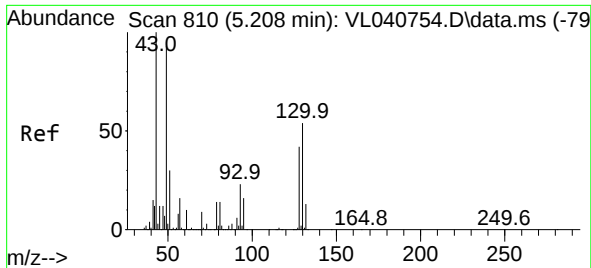
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Oct 13 01:21:42 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

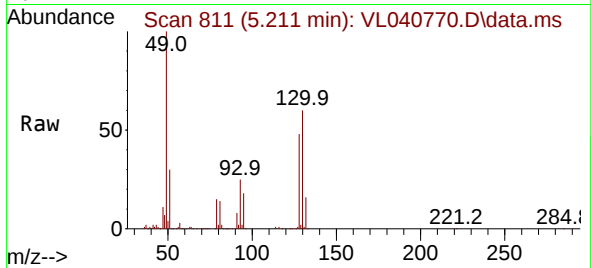
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023





#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL040770.D
 Acq: 12 Oct 2023 00:33

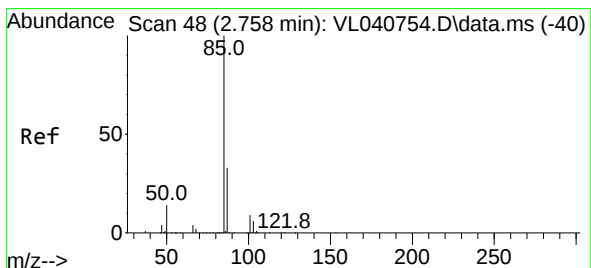
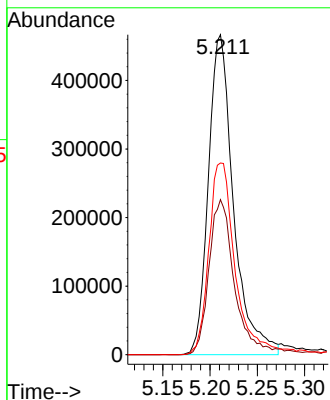
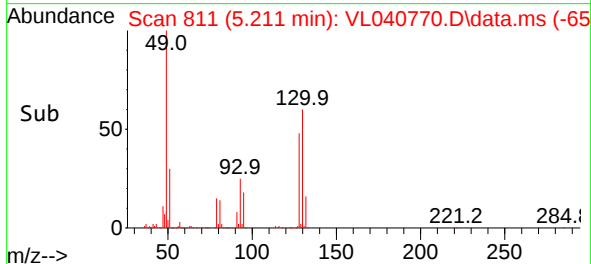
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 49 Resp: 863339
 Ion Ratio Lower Upper
 49 100
 128 51.1 23.9 71.7
 130 64.9 30.7 92.1

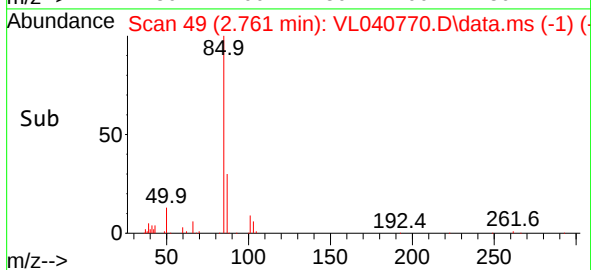
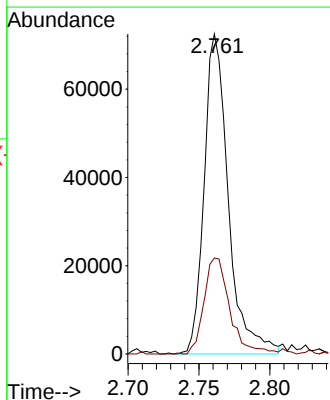
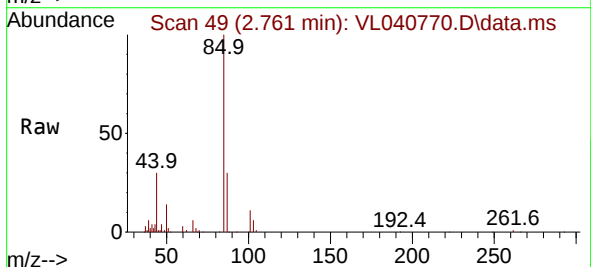
Manual Integrations
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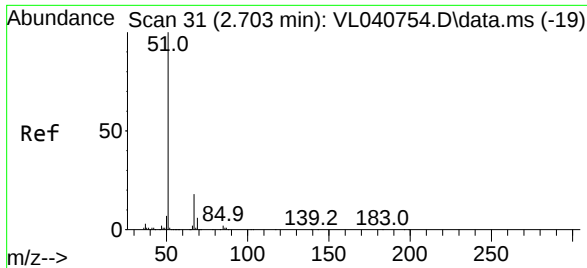
Reviewed By :Semsettin Yesilyurt 10/14/2023
 Supervised By :Mahesh Dadoda 10/16/2023



#2
 Dichlorodifluoromethane
 Concen: 0.567 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.003 min
 Lab File: VL040770.D
 Acq: 12 Oct 2023 00:33

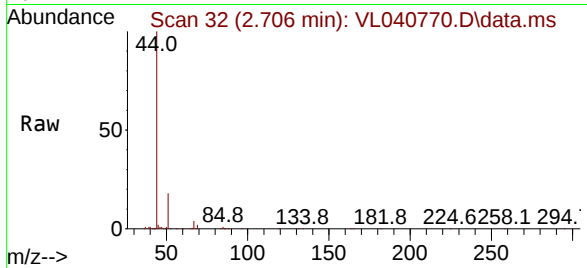
Tgt Ion: 85 Resp: 86154
 Ion Ratio Lower Upper
 85 100
 87 29.7 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.299 ppbv m
RT: 2.706 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

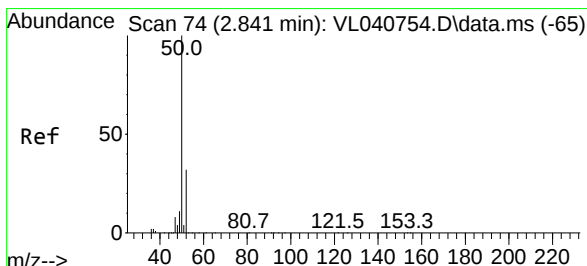
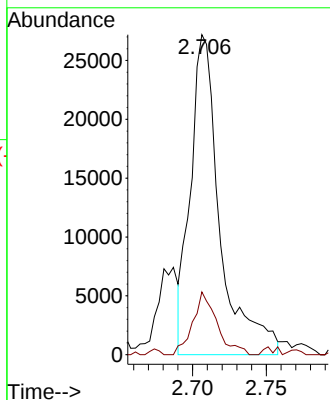
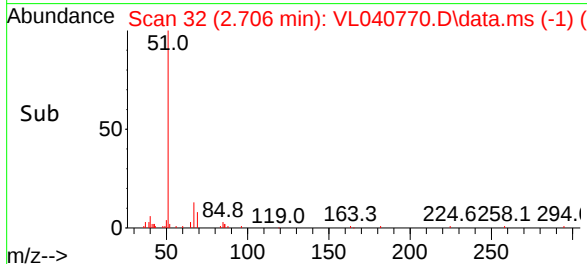
Instrument :
MSVOA_L
ClientSampleId :
OA1



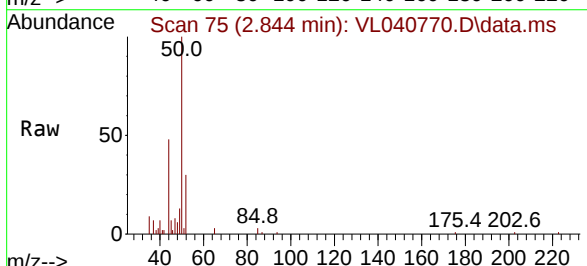
Tgt Ion: 51 Resp: 3789
Ion Ratio Lower Upper
51 100
67 16.6 13.8 20.6

Manual Integrations
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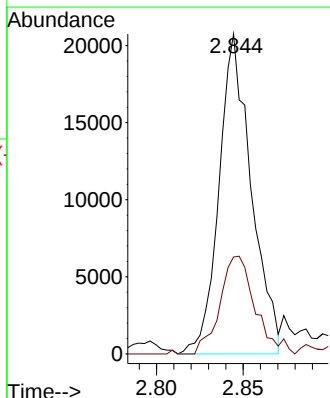
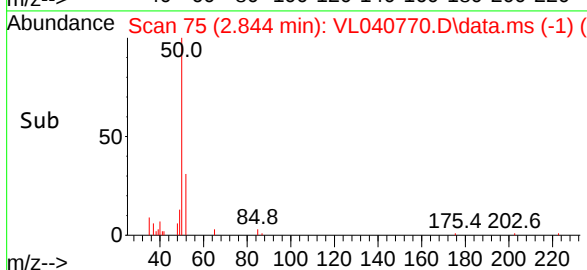
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

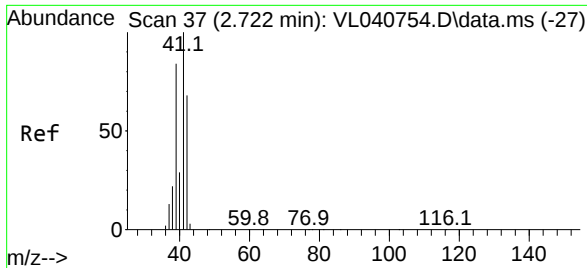


#4
Chloromethane
Concen: 0.538 ppbv
RT: 2.844 min Scan# 75
Delta R.T. 0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33



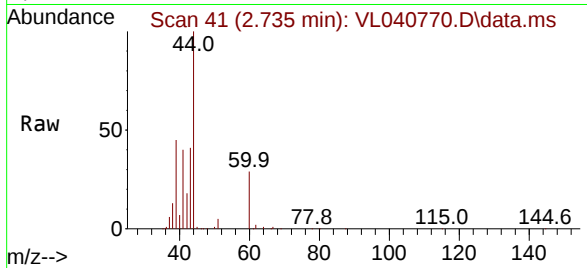
Tgt Ion: 50 Resp: 26940
Ion Ratio Lower Upper
50 100
52 30.3 25.3 37.9





#9
 Propene
 Concen: 0.904 ppbv m
 RT: 2.735 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL040770.D
 Acq: 12 Oct 2023 00:33

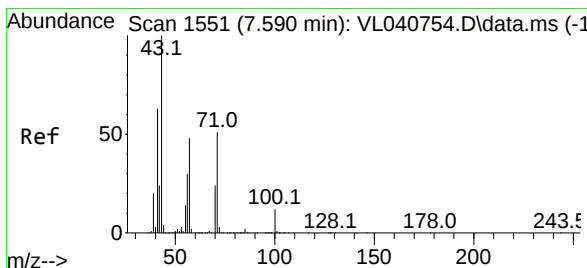
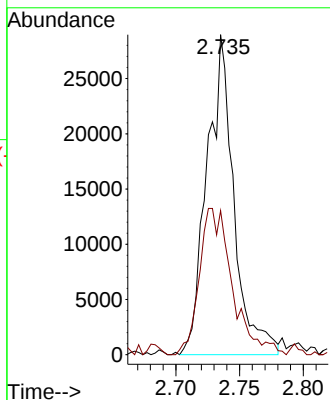
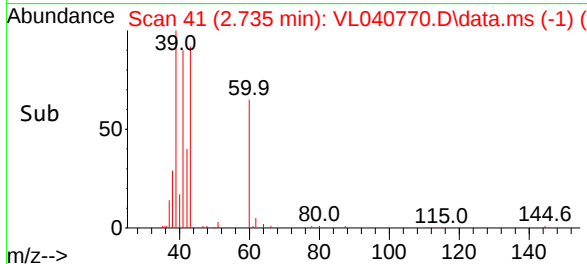
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 41 Resp: 42600
 Ion Ratio Lower Upper
 41 100
 42 58.8 57.1 85.7

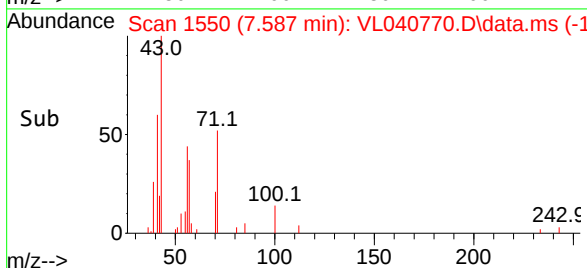
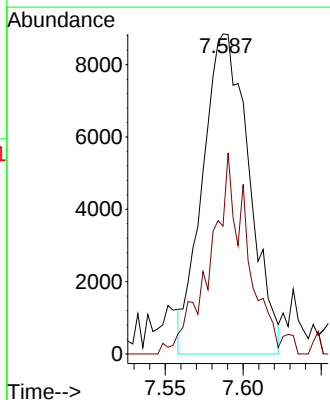
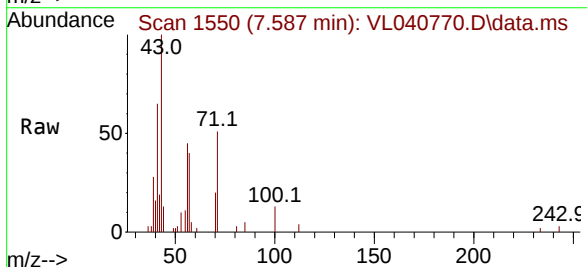
Manual Integrations
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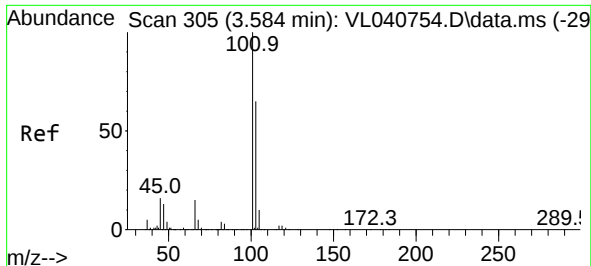
Reviewed By :Semsettin Yesilyurt 10/14/2023
 Supervised By :Mahesh Dadoda 10/16/2023



#10
 Heptane
 Concen: 0.155 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. -0.003 min
 Lab File: VL040770.D
 Acq: 12 Oct 2023 00:33

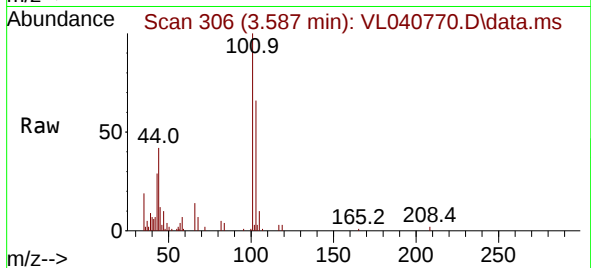
Tgt Ion: 43 Resp: 18364
 Ion Ratio Lower Upper
 43 100
 57 52.6 40.0 60.0





#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 3.587 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

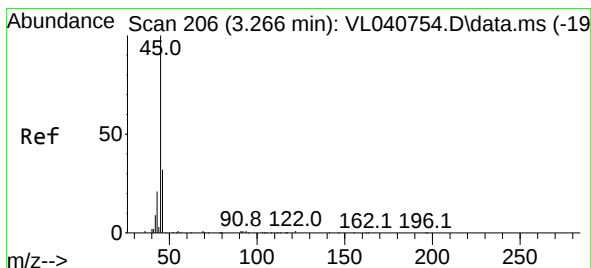
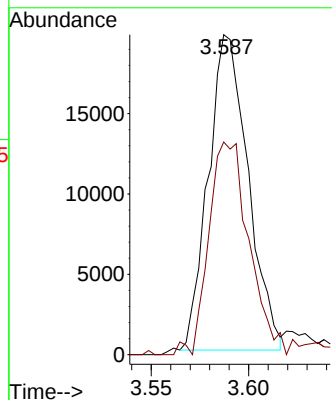
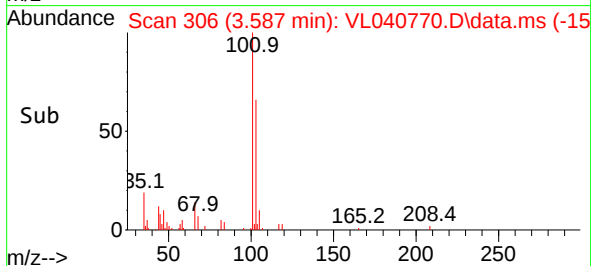
Instrument :
MSVOA_L
ClientSampleId :
OA1



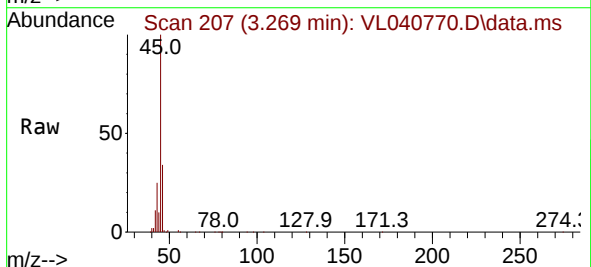
Tgt Ion:101 Resp: 2785
Ion Ratio Lower Upper
101 100
103 66.2 52.2 78.2

Manual Integrations
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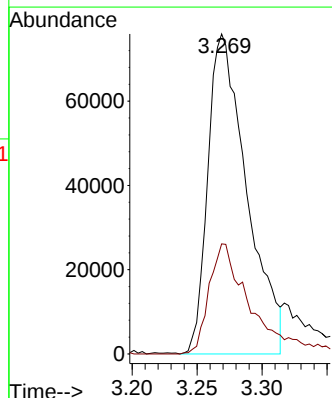
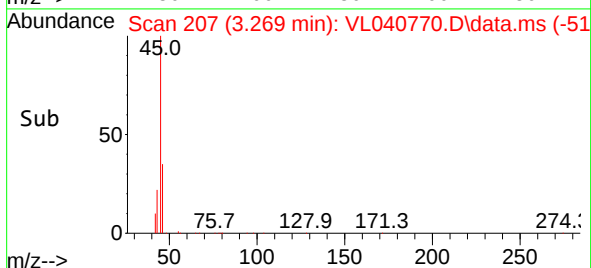
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

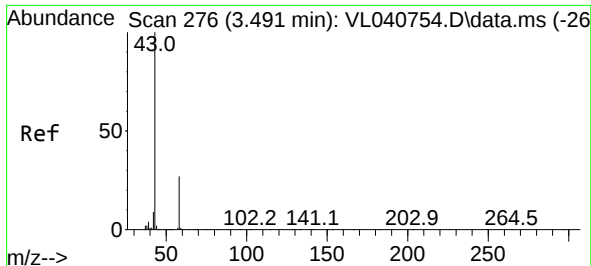


#13
Ethanol
Concen: 14.885 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33



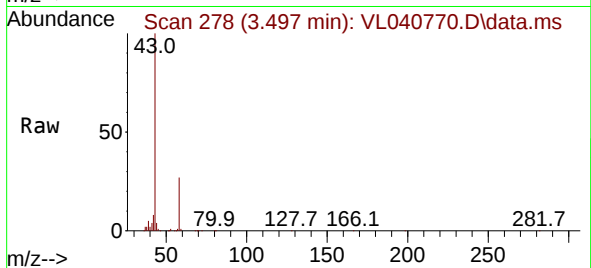
Tgt Ion: 45 Resp: 158345
Ion Ratio Lower Upper
45 100
46 38.4 14.6 58.2





#15
Acetone
Concen: 6.184 ppbv
RT: 3.497 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

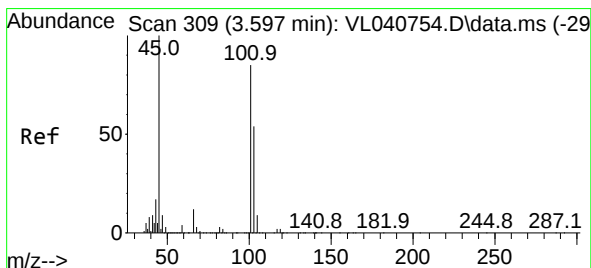
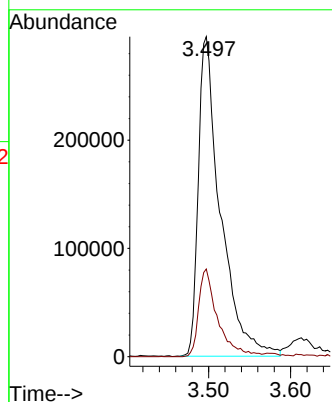
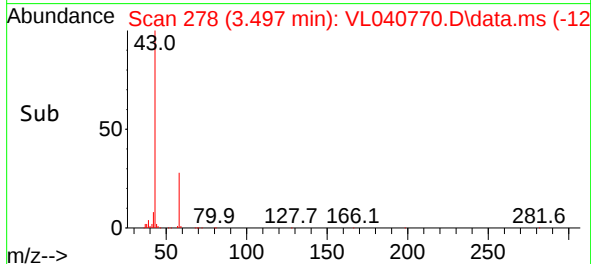
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 55197
Ion Ratio Lower Upper
43 100
58 24.5 21.6 32.4

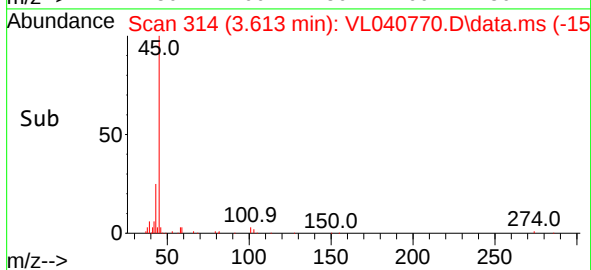
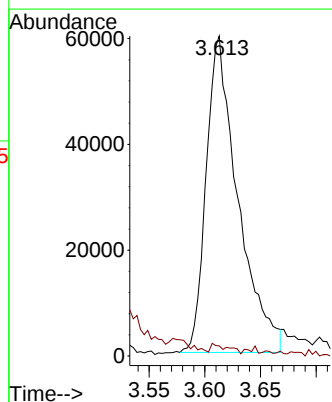
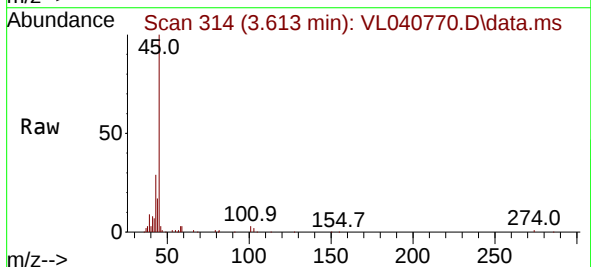
Manual Integrations
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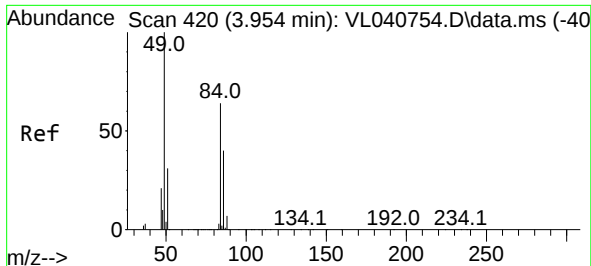
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#19
Isopropyl Alcohol
Concen: 2.061 ppbv
RT: 3.613 min Scan# 314
Delta R.T. 0.016 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

Tgt Ion: 45 Resp: 118435
Ion Ratio Lower Upper
45 100
58 114.2 30.3 45.5#





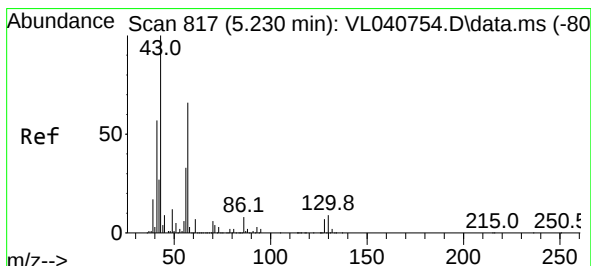
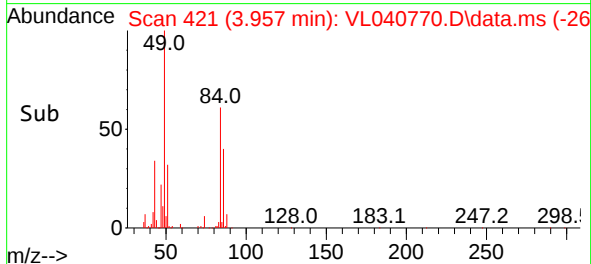
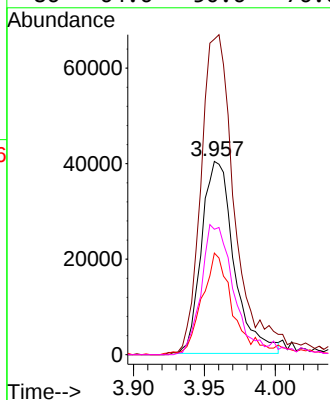
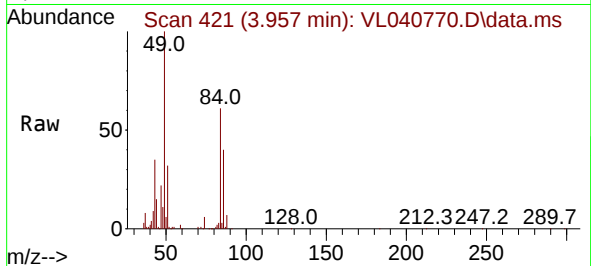
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Methylene Chloride
Concen: 1.727 ppbv
RT: 3.957 min Scan# 421
Delta R.T. 0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 6420
Ion Ratio Lower Upper
84 100
49 162.8 125.6 188.4
51 51.9 38.9 58.3
86 64.6 50.6 76.0

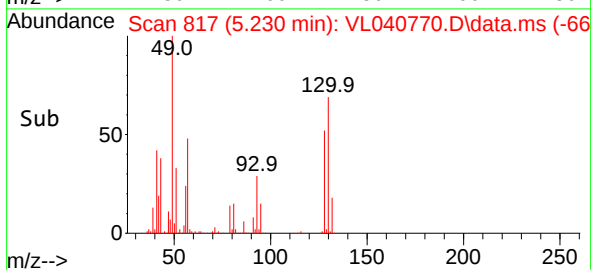
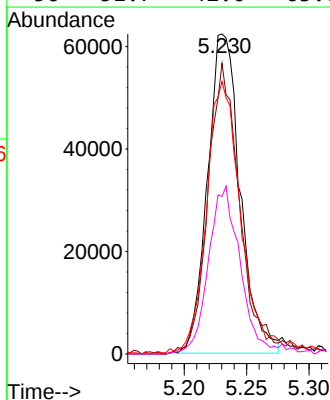
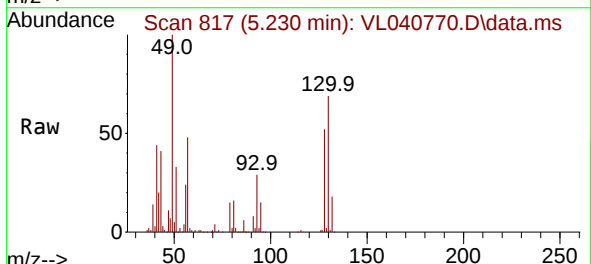
Manual Integrations
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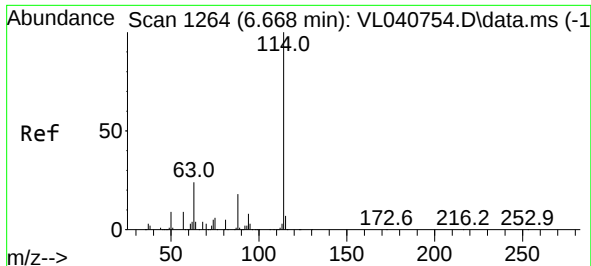
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#26
Hexane
Concen: 1.271 ppbv
RT: 5.230 min Scan# 817
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

Tgt Ion: 57 Resp: 113635
Ion Ratio Lower Upper
57 100
41 91.4 71.4 107.2
43 93.4 182.3 273.5#
56 51.7 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040770.D

Acq: 12 Oct 2023 00:33

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:114 Resp: 243444

Ion Ratio Lower Upper

114 100

63 23.5 19.8 29.6

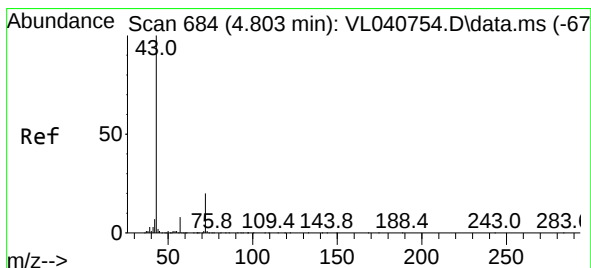
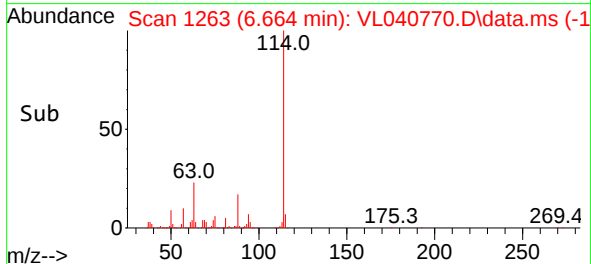
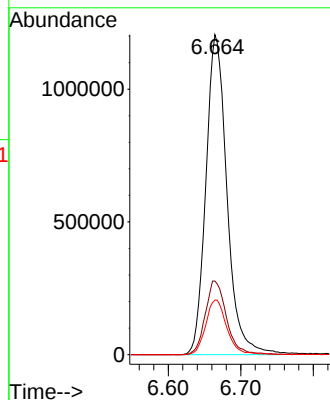
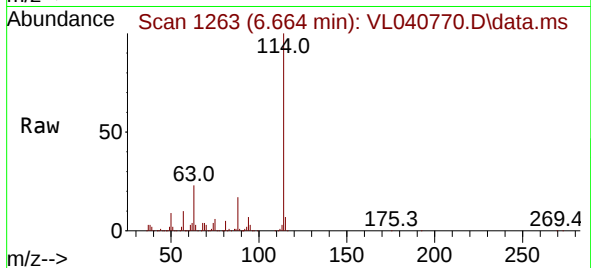
88 17.2 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2023

Supervised By :Mahesh Dadoda 10/16/2023



#34

2-Butanone

Concen: 0.370 ppbv

RT: 4.819 min Scan# 689

Delta R.T. 0.016 min

Lab File: VL040770.D

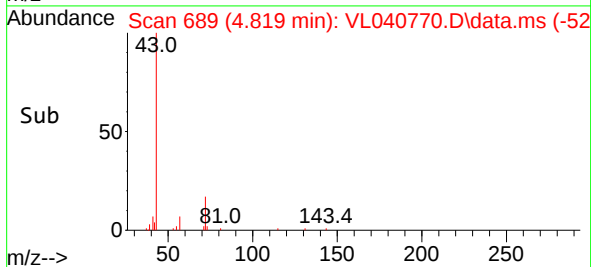
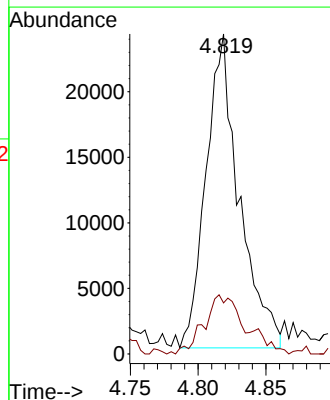
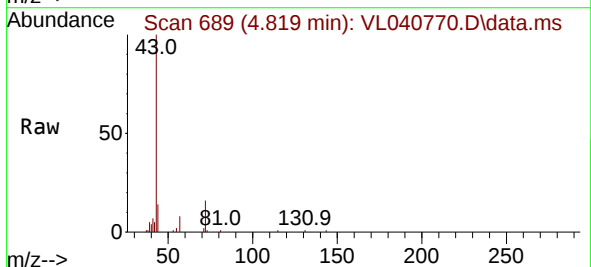
Acq: 12 Oct 2023 00:33

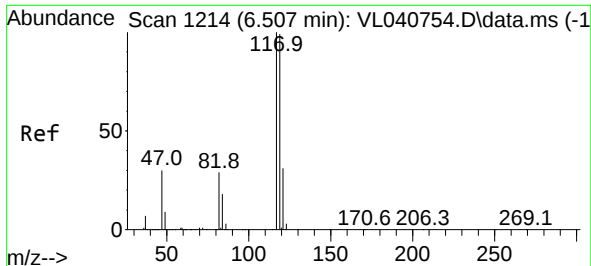
Tgt Ion: 43 Resp: 40738

Ion Ratio Lower Upper

43 100

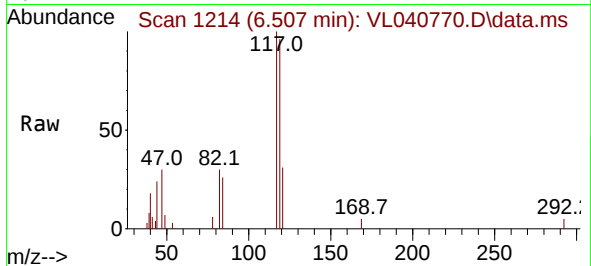
72 23.4 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 6.507 min Scan# 1176
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

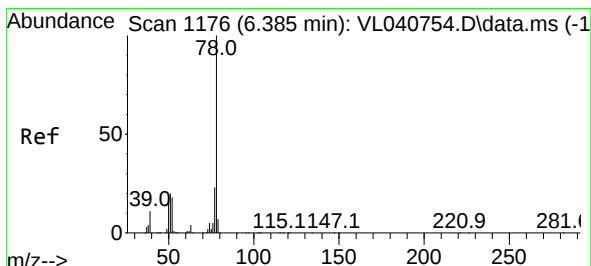
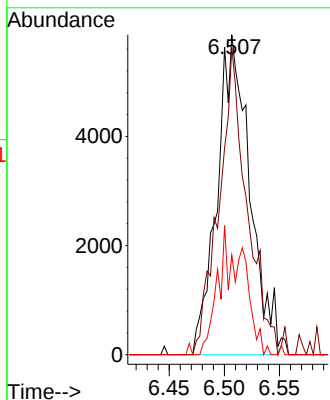
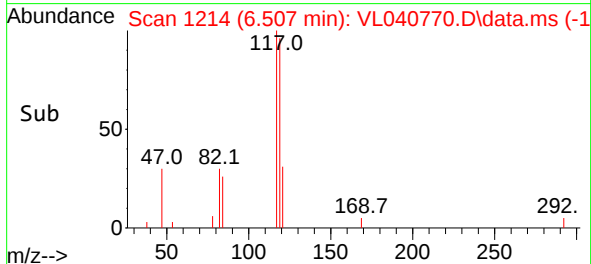
Instrument :
MSVOA_L
ClientSampleId :
OA1



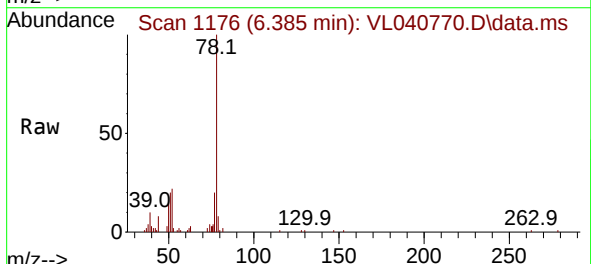
Tgt Ion: 117 Resp: 12074
Ion Ratio Lower Upper
117 100
119 95.9 79.4 119.0
121 31.1 25.0 37.4

Manual Integrations
APPROVED

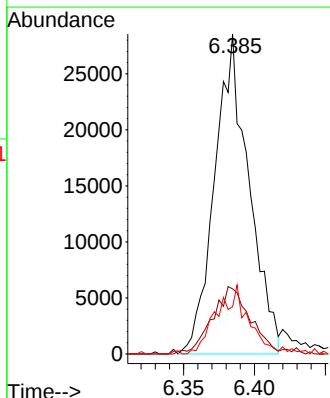
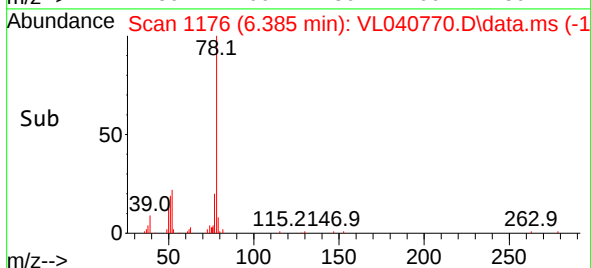
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

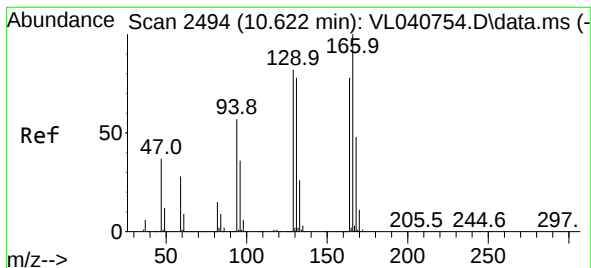


#36
Benzene
Concen: 0.256 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33



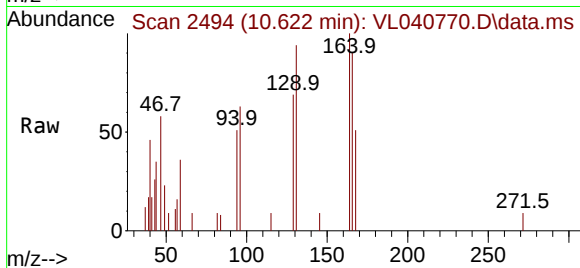
Tgt Ion: 78 Resp: 48019
Ion Ratio Lower Upper
78 100
77 19.6 18.4 27.6
50 13.9 15.0 22.4#





#52
Tetrachloroethene
Concen: 0.036 ppbv m
RT: 10.622 min Scan# 2494
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

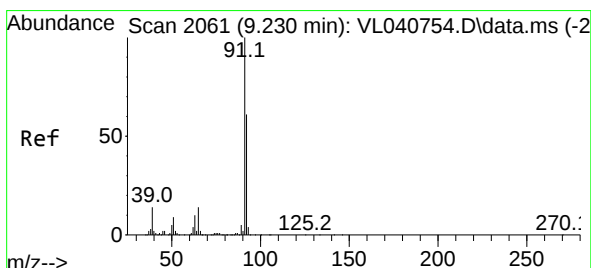
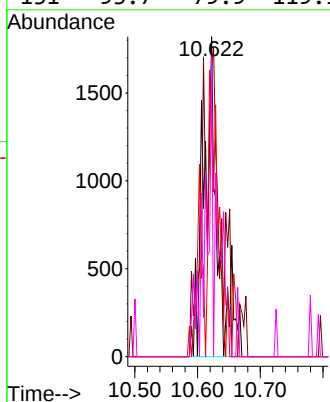
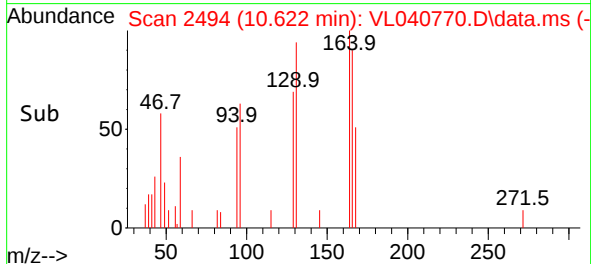
Instrument : MSVOA_L
ClientSampleId : OA1



Tgt Ion:164 Resp: 272.0
Ion Ratio Lower Upper
164 100
166 90.2 102.4 153.6
129 69.2 84.2 126.4
131 93.7 79.9 119.9

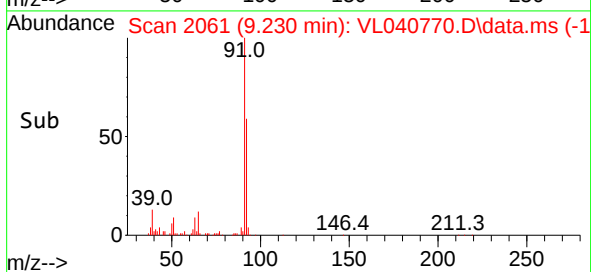
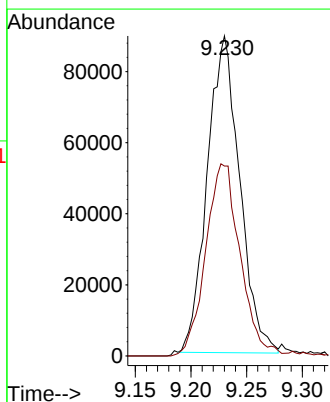
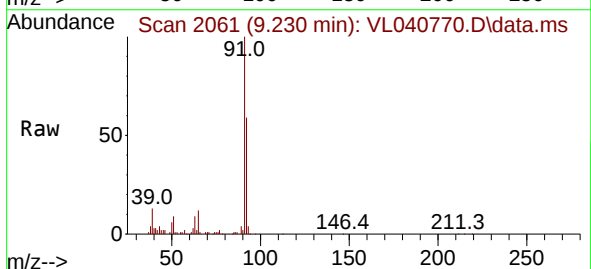
Manual Integrations
APPROVED

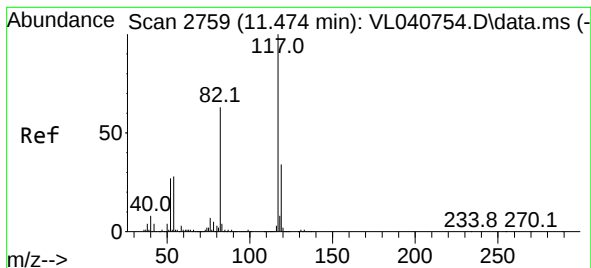
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#53
Toluene
Concen: 0.811 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

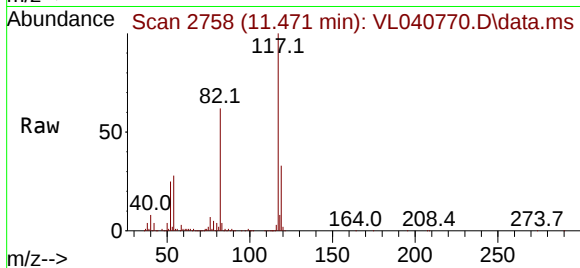
Tgt Ion: 91 Resp: 180793
Ion Ratio Lower Upper
91 100
92 65.4 50.2 75.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

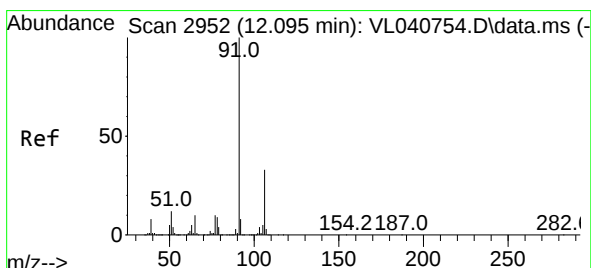
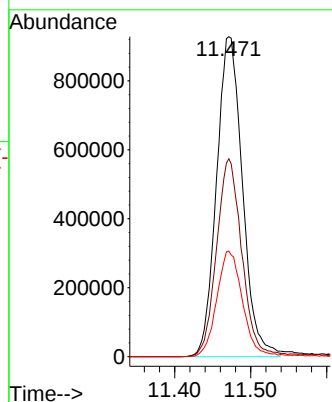
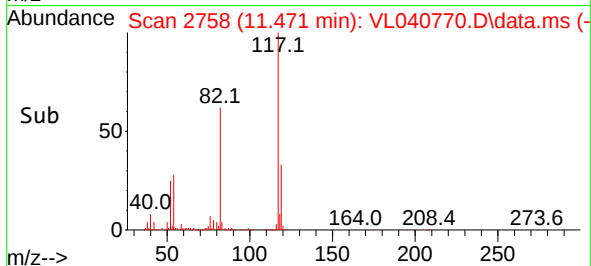
Instrument :
MSVOA_L
ClientSampleId :
OA1



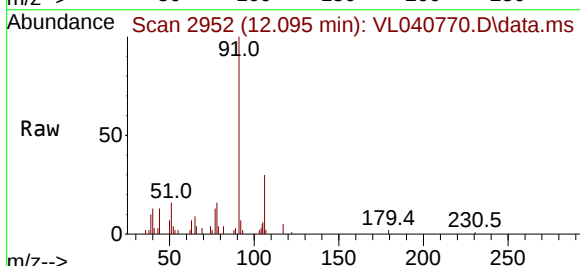
Tgt Ion:117 Resp: 2198974
Ion Ratio Lower Upper
117 100
82 61.8 46.6 70.0
119 33.2 26.0 39.0

Manual Integrations
APPROVED

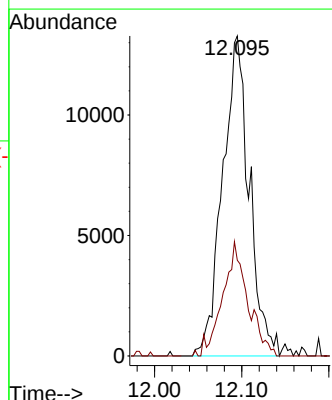
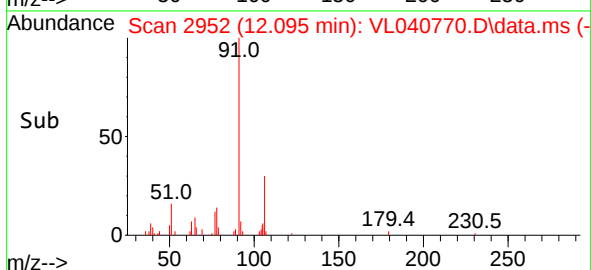
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

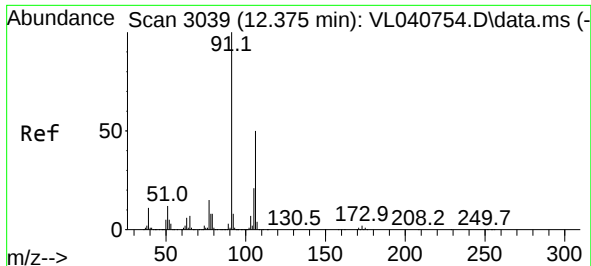


#58
Ethyl Benzene
Concen: 0.102 ppbv m
RT: 12.095 min Scan# 2952
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33



Tgt Ion: 91 Resp: 28228
Ion Ratio Lower Upper
91 100
106 29.9 26.7 40.1





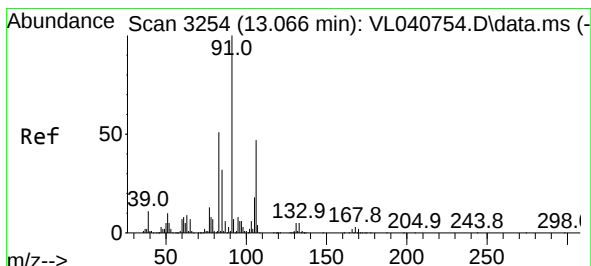
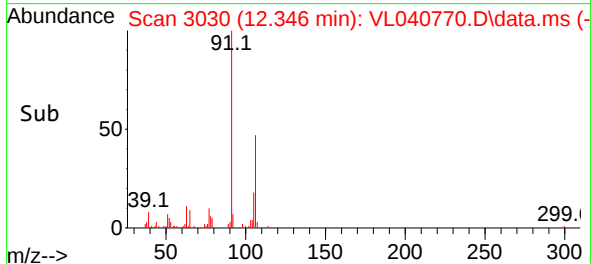
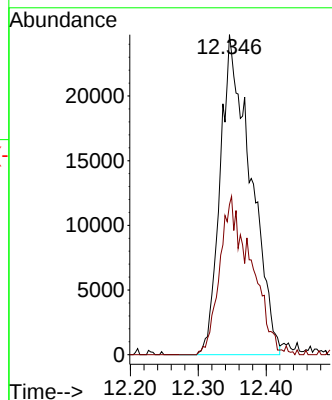
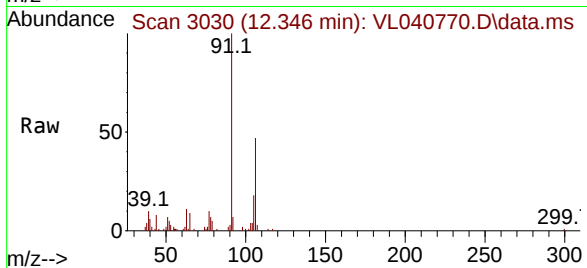
#59
m/p-Xylene
Concen: 0.339 ppbv m
RT: 12.346 min Scan# 3039
Delta R.T. -0.029 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 7725
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5

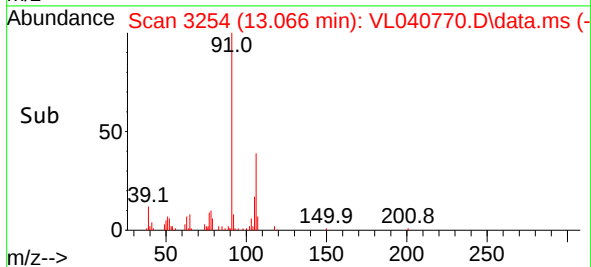
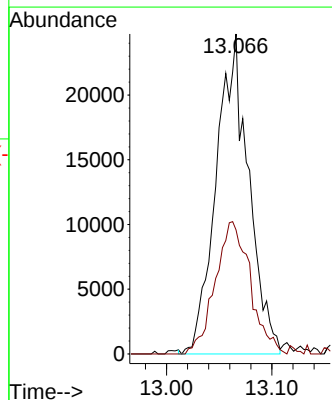
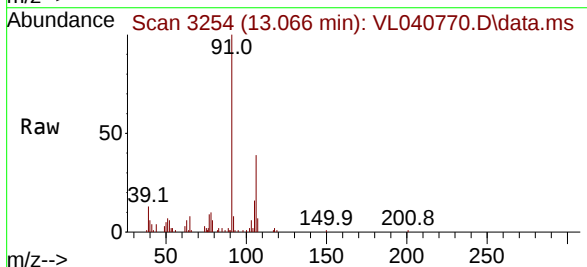
Manual Integrations
APPROVED

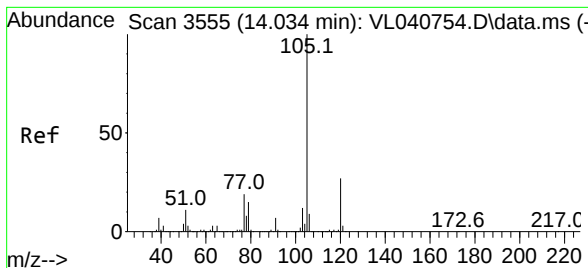
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023



#60
o-Xylene
Concen: 0.243 ppbv m
RT: 13.066 min Scan# 3254
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

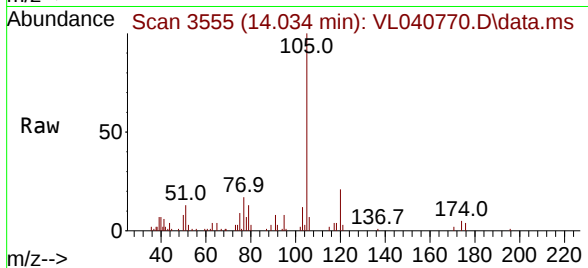
Tgt Ion: 91 Resp: 52768
Ion Ratio Lower Upper
91 100
106 45.4 23.5 70.5





#62
Isopropylbenzene
Concen: 0.129 ppbv m
RT: 14.034 min Scan# 3555
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

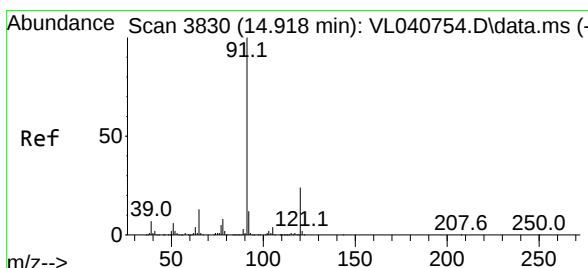
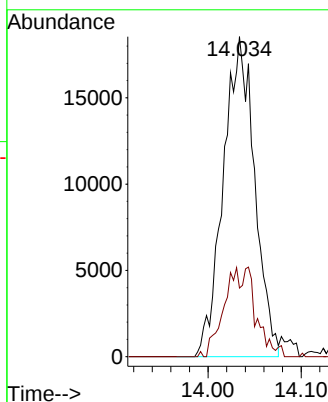
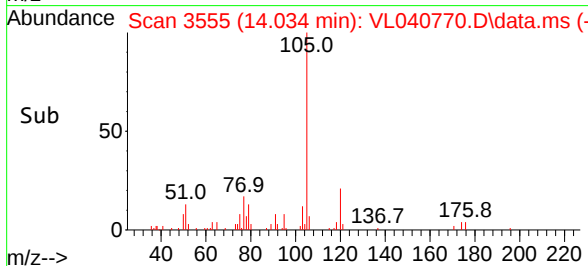
Instrument :
MSVOA_L
ClientSampleId :
OA1



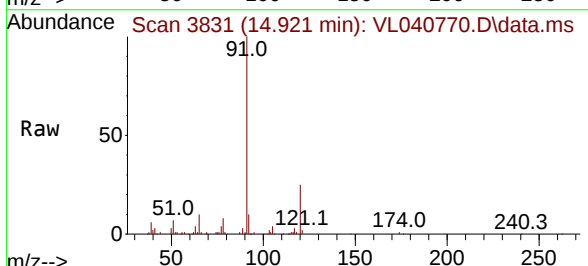
Tgt Ion:105 Resp: 43218
Ion Ratio Lower Upper
105 100
120 0.0 21.5 32.3

Manual Integrations
APPROVED

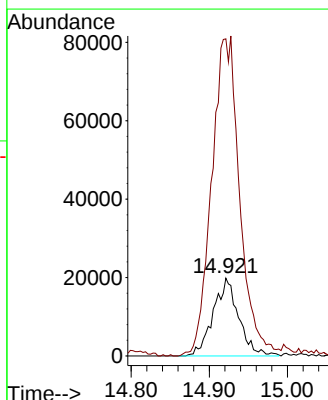
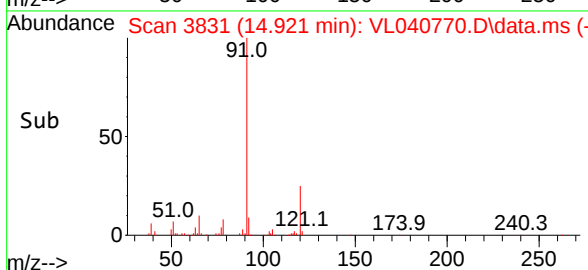
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

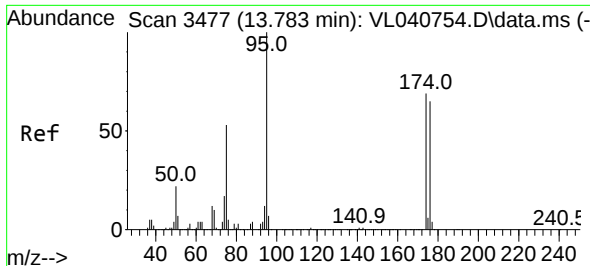


#64
n-propylbenzene
Concen: 0.500 ppbv m
RT: 14.921 min Scan# 3831
Delta R.T. 0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33



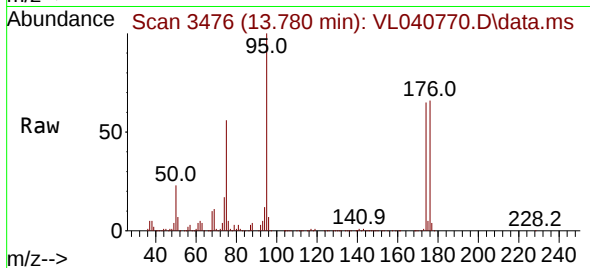
Tgt Ion:120 Resp: 44858
Ion Ratio Lower Upper
120 100
91 0.0 345.9 518.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 13.780 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33

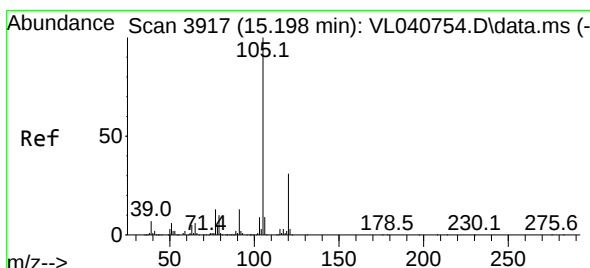
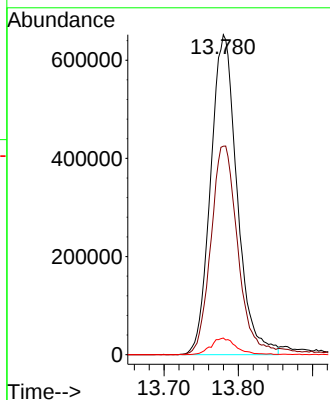
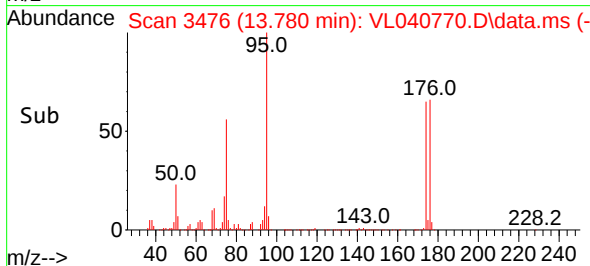
Instrument :
MSVOA_L
ClientSampleId :
OA1



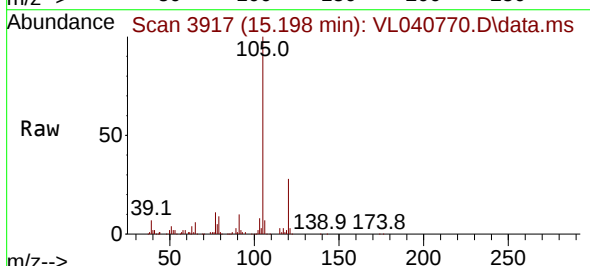
Tgt Ion: 95 Resp: 161589
Ion Ratio Lower Upper
95 100
174 68.7 54.7 82.1
175 5.1 4.2 6.4

Manual Integrations
APPROVED

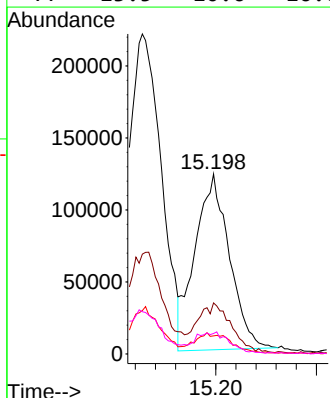
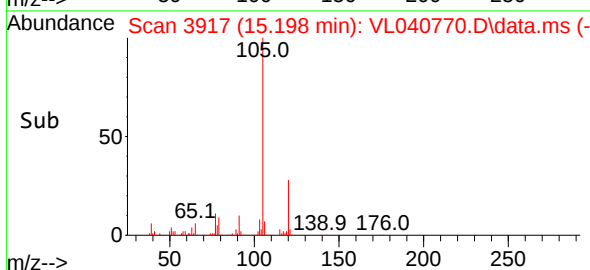
Reviewed By :Semsettin Yesilyurt 10/14/2023
Supervised By :Mahesh Dadoda 10/16/2023

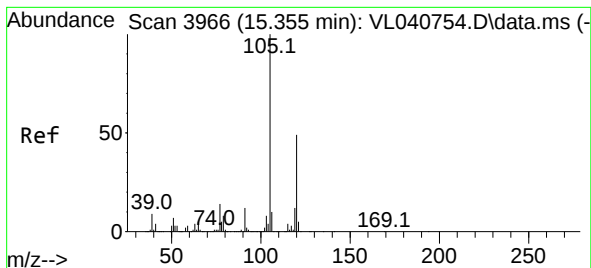


#72
4-Ethyltoluene
Concen: 1.139 ppbv
RT: 15.198 min Scan# 3917
Delta R.T. -0.000 min
Lab File: VL040770.D
Acq: 12 Oct 2023 00:33



Tgt Ion:105 Resp: 289556
Ion Ratio Lower Upper
105 100
120 31.2 25.0 37.4
91 12.4 9.8 14.8
77 13.5 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 0.931 ppbv

RT: 15.355 min Scan# 3966

Delta R.T. -0.000 min

Lab File: VL040770.D

Acq: 12 Oct 2023 00:33

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:105 Resp: 20851

Ion Ratio Lower Upper

105 100

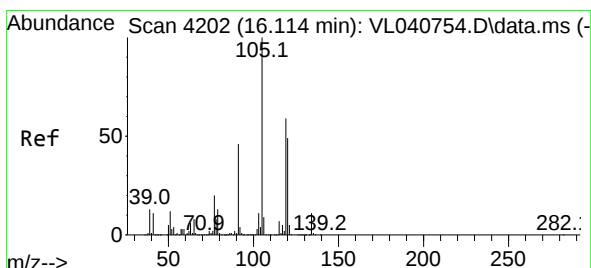
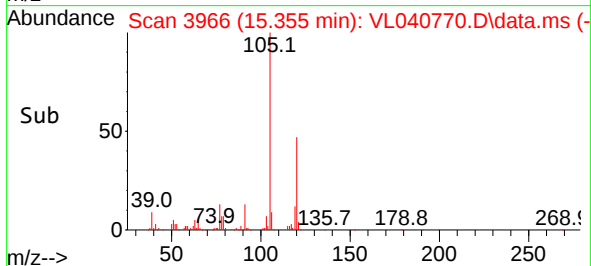
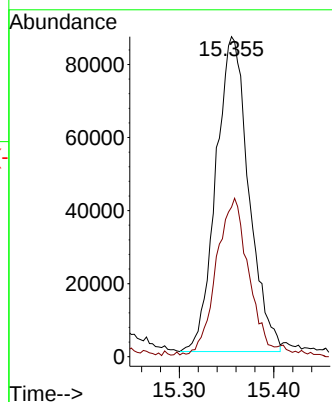
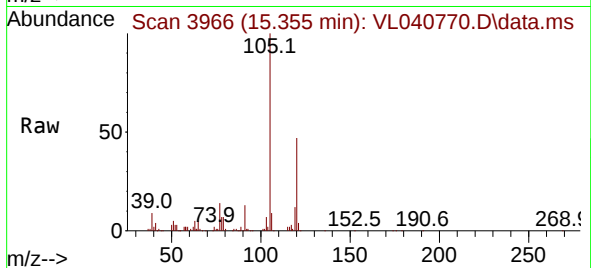
120 47.0 39.4 59.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2023

Supervised By :Mahesh Dadoda 10/16/2023



#74

1,2,4-Trimethylbenzene

Concen: 2.214 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. -0.003 min

Lab File: VL040770.D

Acq: 12 Oct 2023 00:33

Tgt Ion:105 Resp: 541403

Ion Ratio Lower Upper

105 100

120 46.2 39.4 59.2

91 10.3 38.6 58.0#

77 13.3 16.6 25.0#

