

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
 Data File : VL040738.D
 Acq On : 4 Oct 2023 13:14
 Operator : SY/MD
 Sample : 04716-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023

Quant Time: Oct 05 04:26:41 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	5.189	49	1080817	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2950878	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2422255	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1787209	9.550	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.739	85	117502	0.493	ppbv	91
3) Chlorodifluoromethane	2.684	51	94879m	0.539	ppbv	
4) Chloromethane	2.822	50	37377	0.554	ppbv #	86
9) Propene	2.710	41	217687m	4.292	ppbv	
11) Trichlorofluoromethane	3.571	101	45474m	0.217	ppbv	
13) Ethanol	3.243	45	616436	41.058	ppbv	99
15) Acetone	3.472	43	1376197m	9.653	ppbv	
19) Isopropyl Alcohol	3.584	45	702689	8.180	ppbv #	97
20) Methylene Chloride	3.935	84	2142311	27.919	ppbv	97
26) Hexane	5.211	57	1079308	9.927	ppbv #	40
29) Chloroform	5.269	83	21206m	0.113	ppbv	
30) Cyclohexane	6.590	84	26925m	0.329	ppbv	
34) 2-Butanone	4.793	43	162647	1.096	ppbv	96
35) Carbon Tetrachloride	6.488	117	14364m	0.071	ppbv	
36) Benzene	6.362	78	160722	0.736	ppbv #	91
44) 2,2,4-Trimethylpentane	7.320	57	193605	0.556	ppbv #	83
52) Tetrachloroethene	10.597	164	6180m	0.087	ppbv	
53) Toluene	9.208	91	610536	2.646	ppbv	99
58) Ethyl Benzene	12.073	91	84804	0.307	ppbv	94
59) m/p-Xylene	12.333	91	247879m	0.956	ppbv	
60) o-Xylene	13.040	91	80868	0.327	ppbv	97
61) Styrene	12.886	104	15484m	0.149	ppbv	

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

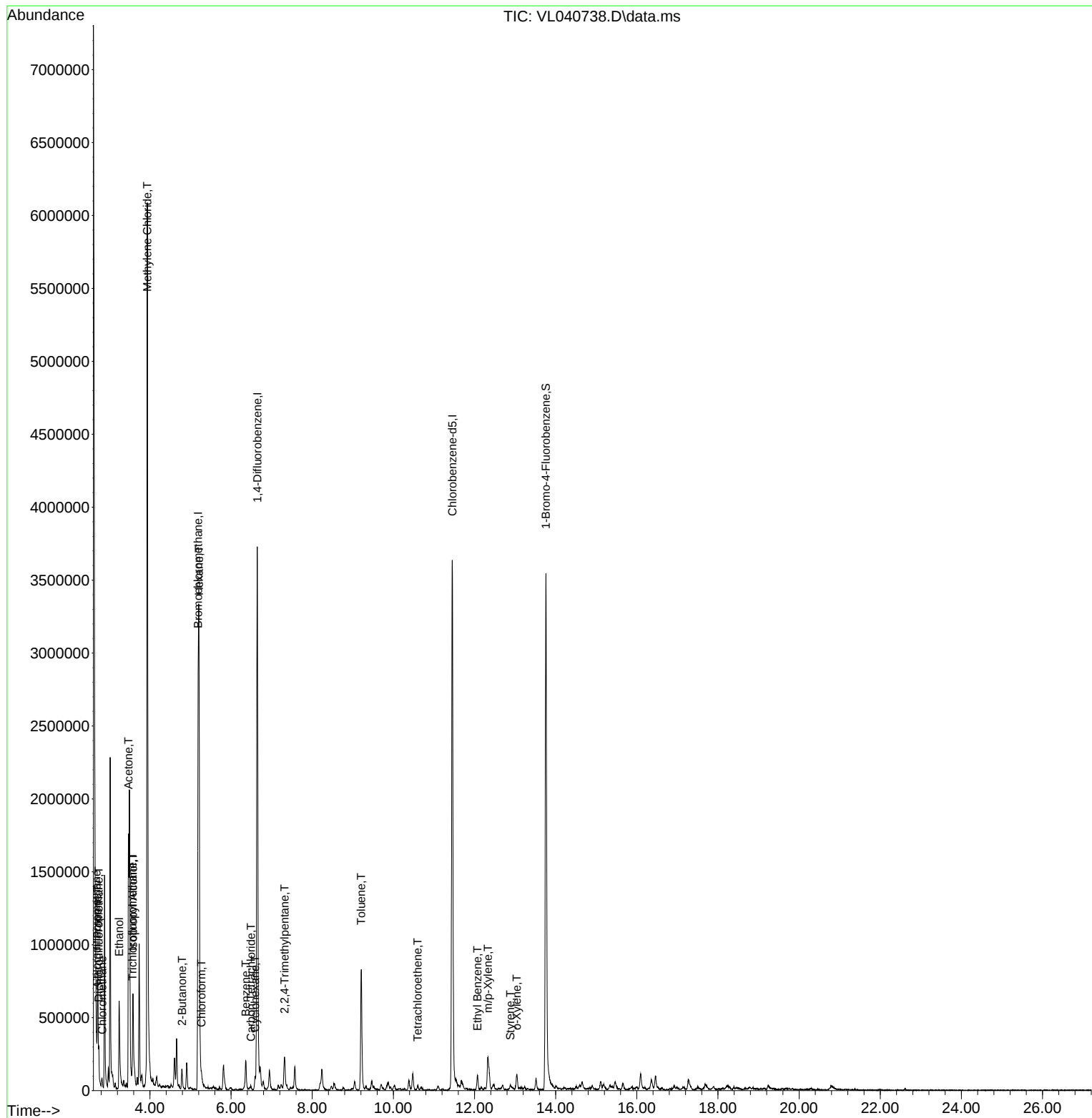
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
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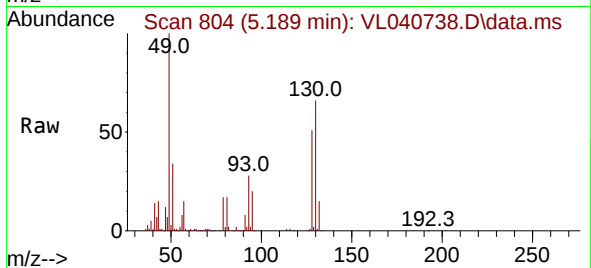
Quant Time: Oct 05 04:26:41 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.009 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

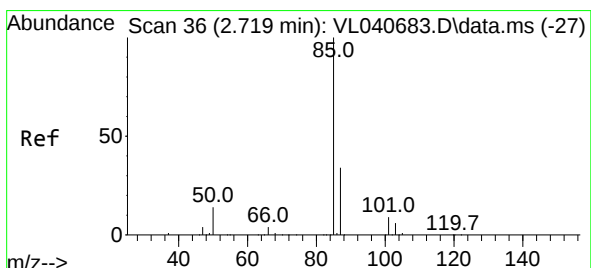
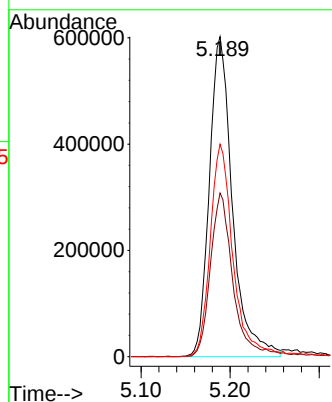
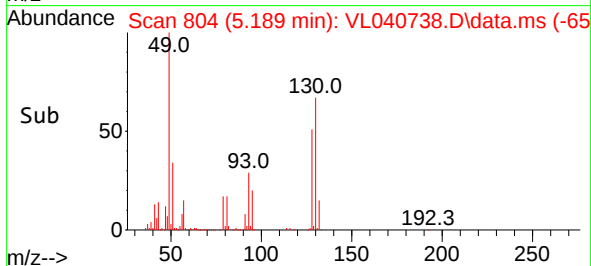
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 108081
Ion Ratio Lower Upper
49 100
128 51.2 25.4 76.0
130 67.6 32.3 96.8

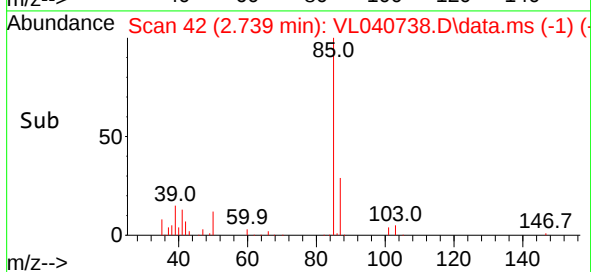
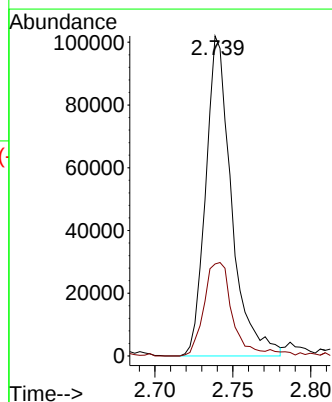
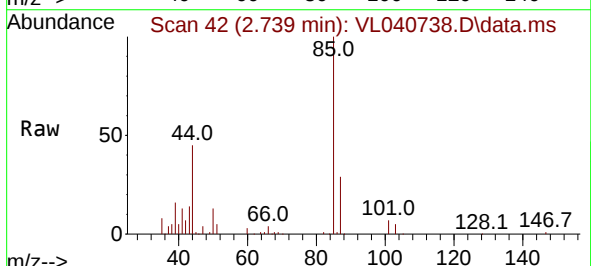
Manual Integrations
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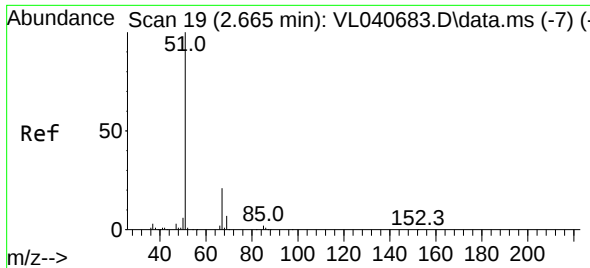
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#2
Dichlorodifluoromethane
Concen: 0.493 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.007 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

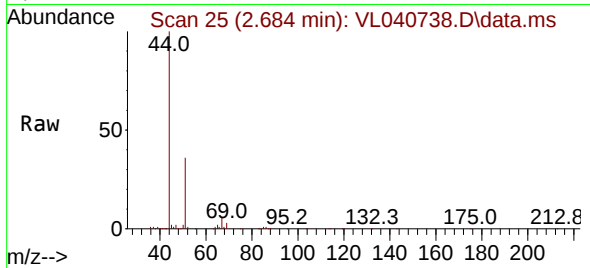
Tgt Ion: 85 Resp: 117502
Ion Ratio Lower Upper
85 100
87 28.7 27.2 40.8





#3
Chlorodifluoromethane
Concen: 0.539 ppbv m
RT: 2.684 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

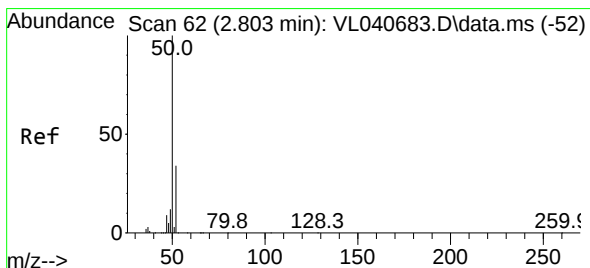
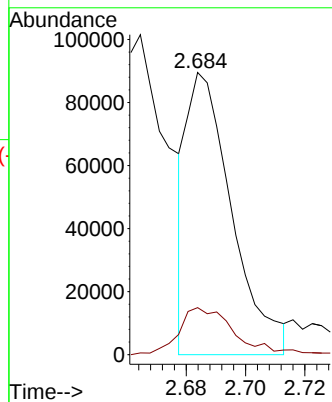
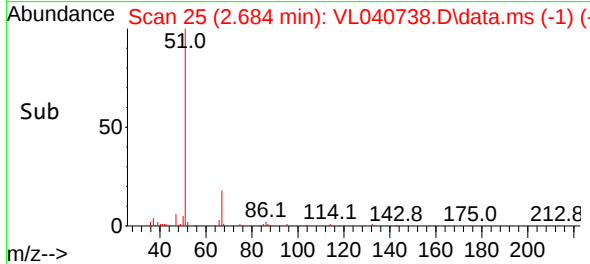
Instrument :
MSVOA_L
ClientSampleId :
OA1



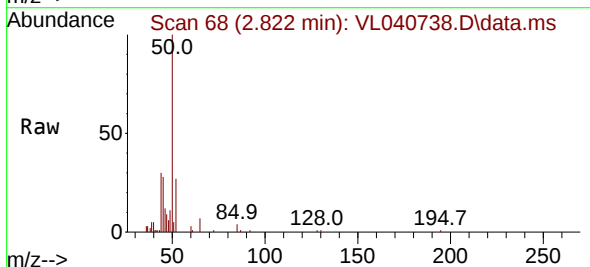
Tgt Ion: 51 Resp: 94879
Ion Ratio Lower Upper
51 100
67 21.2 16.7 25.1

Manual Integrations
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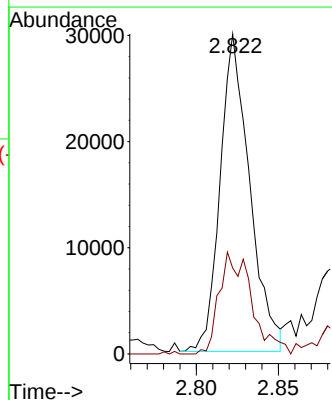
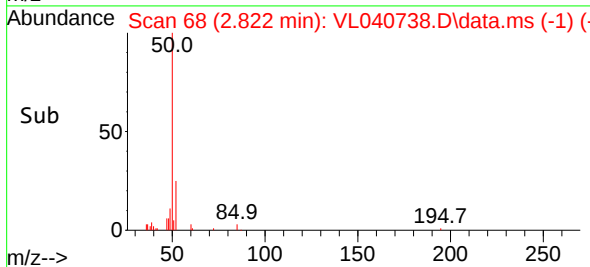
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

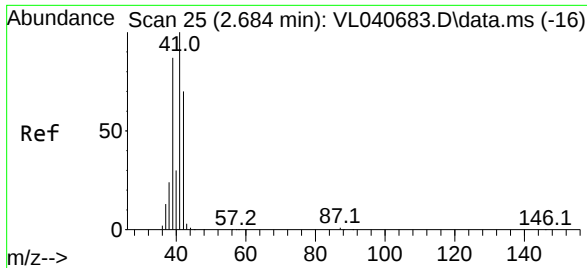


#4
Chloromethane
Concen: 0.554 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.007 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14



Tgt Ion: 50 Resp: 37377
Ion Ratio Lower Upper
50 100
52 25.8 27.1 40.7#





#9

Propene

Concen: 4.292 ppbv m

RT: 2.710 min Scan# 301

Delta R.T. 0.013 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 21768

Ion Ratio Lower Upper

41 100

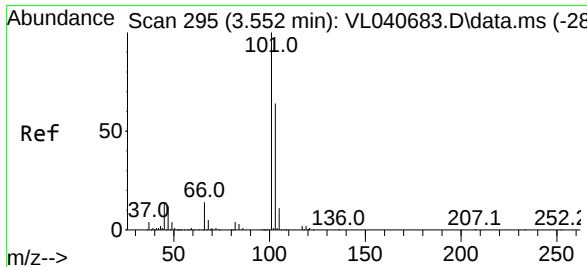
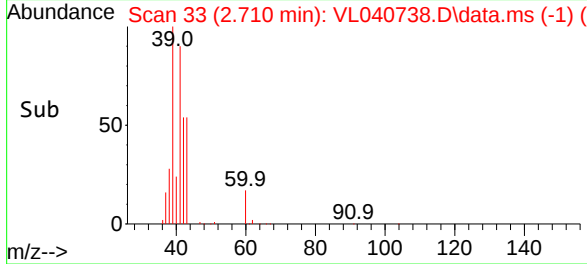
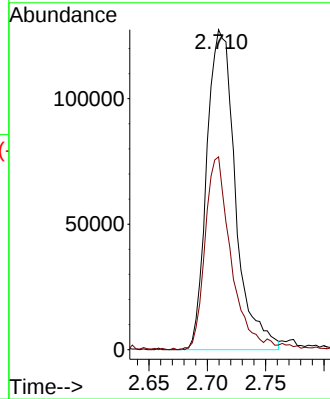
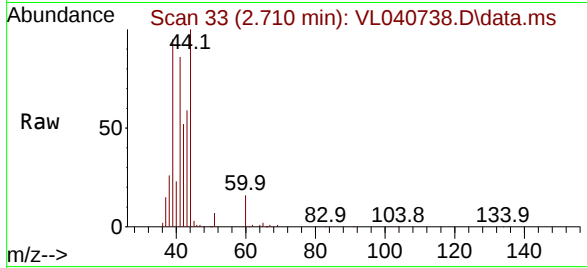
42 121.0 56.7 85.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#11

Trichlorofluoromethane

Concen: 0.217 ppbv m

RT: 3.571 min Scan# 301

Delta R.T. 0.003 min

Lab File: VL040738.D

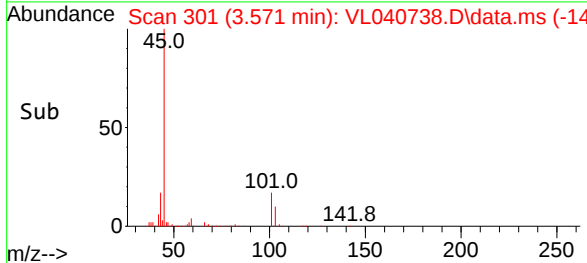
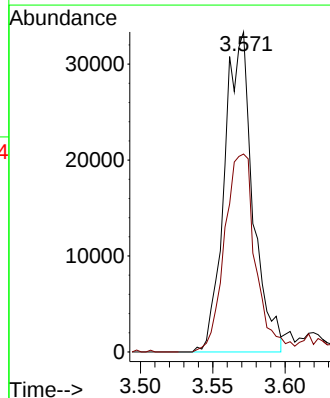
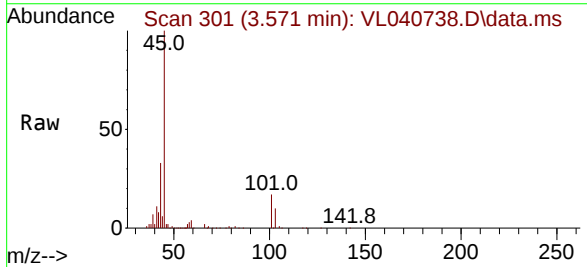
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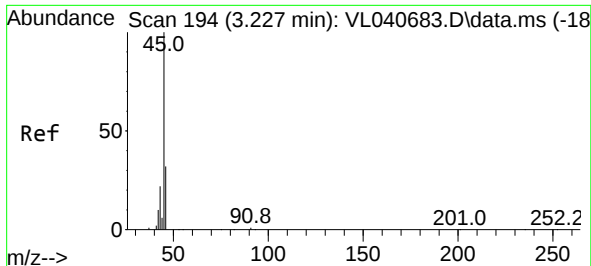
Tgt Ion:101 Resp: 45474

Ion Ratio Lower Upper

101 100

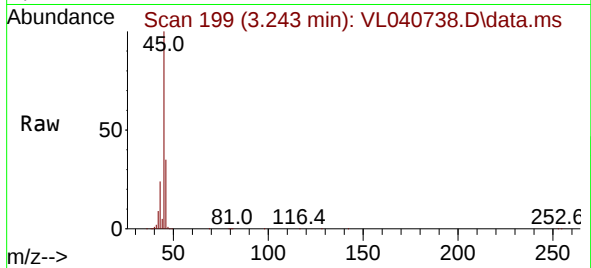
103 61.8 51.3 76.9





#13
Ethanol
Concen: 41.058 ppbv
RT: 3.243 min Scan# 194
Delta R.T. 0.000 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

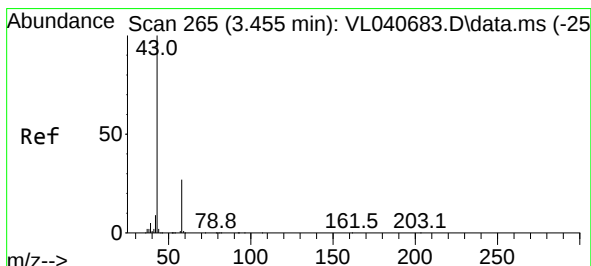
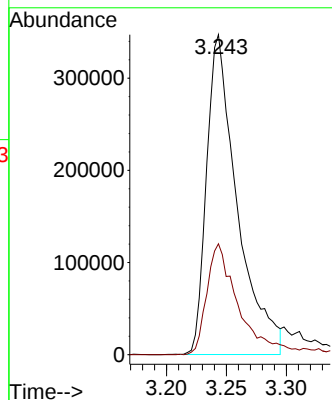
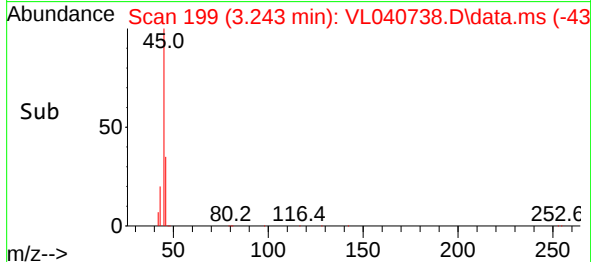
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 45 Resp: 616430
Ion Ratio Lower Upper
45 100
46 38.5 15.2 61.0

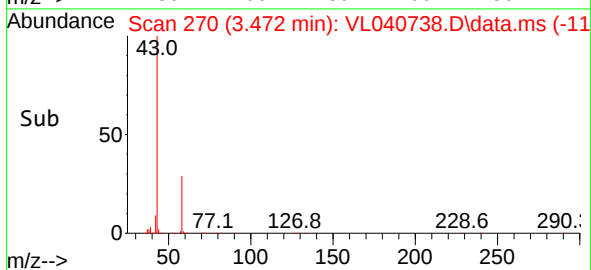
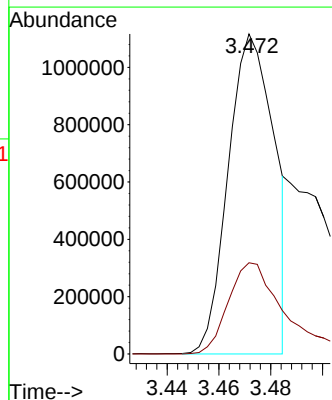
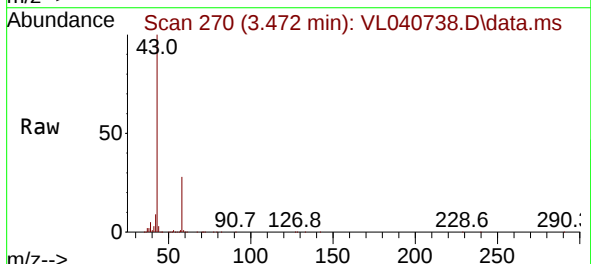
Manual Integrations
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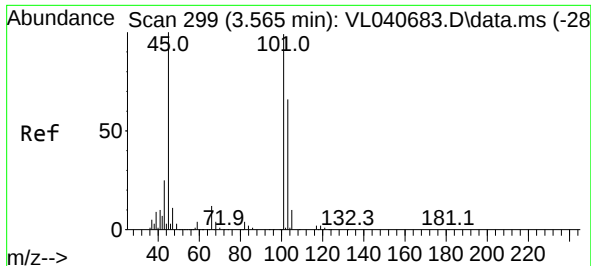
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#15
Acetone
Concen: 9.653 ppbv m
RT: 3.472 min Scan# 270
Delta R.T. 0.000 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 43 Resp: 1376197
Ion Ratio Lower Upper
43 100
58 37.2 22.6 34.0#





#19

Isopropyl Alcohol

Concen: 8.180 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.007 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 45 Resp: 702689

Ion Ratio Lower Upper

45 100

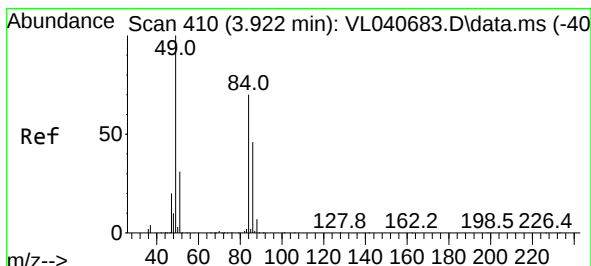
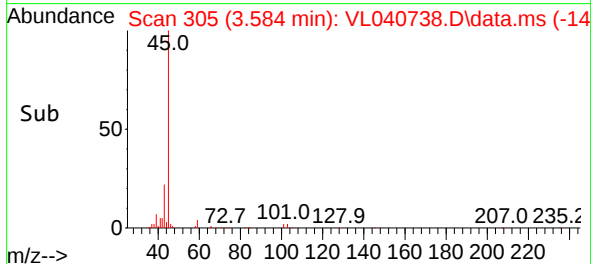
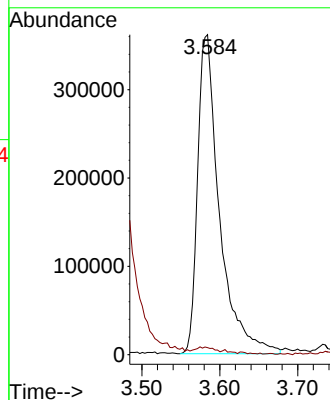
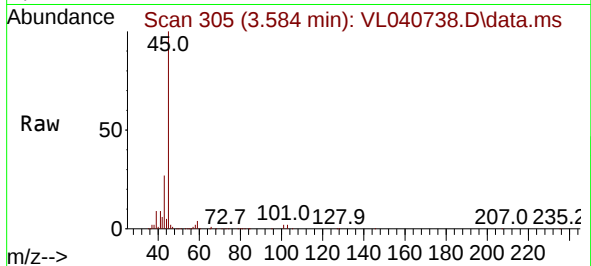
58 3.3 1.9 2.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#20

Methylene Chloride

Concen: 27.919 ppbv

RT: 3.935 min Scan# 414

Delta R.T. -0.003 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Tgt Ion: 84 Resp: 2142311

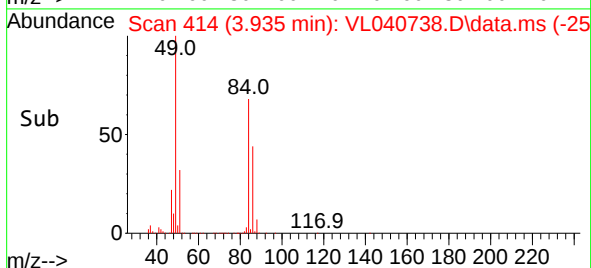
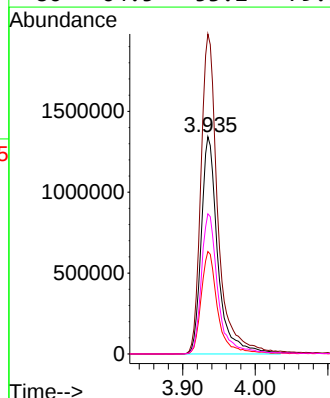
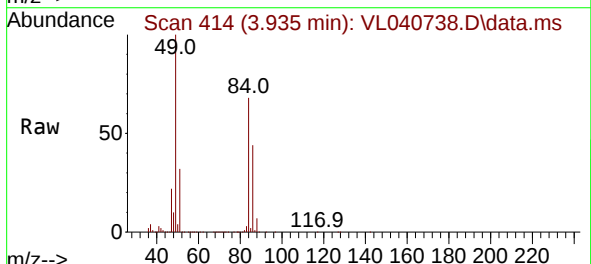
Ion Ratio Lower Upper

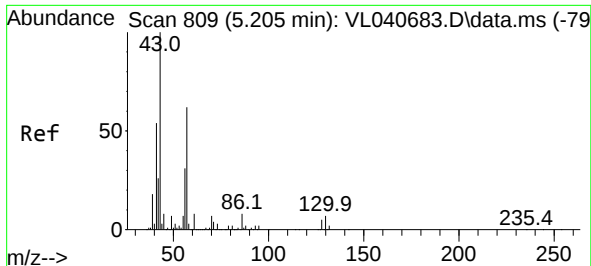
84 100

49 147.3 114.4 171.6

51 47.1 35.5 53.3

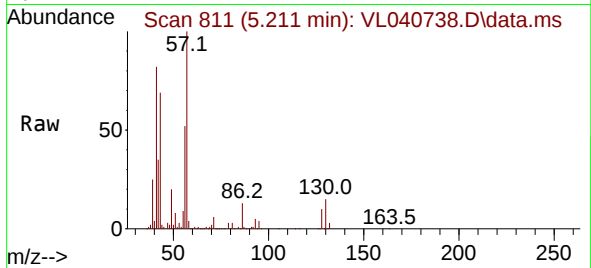
86 64.5 53.2 79.8





#26
Hexane
Concen: 9.927 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

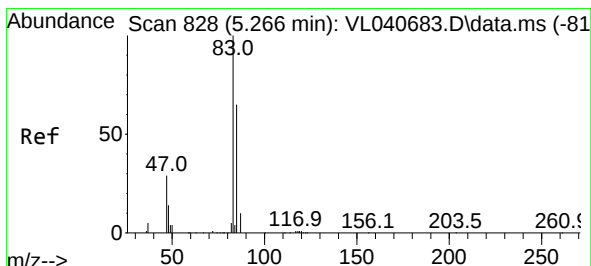
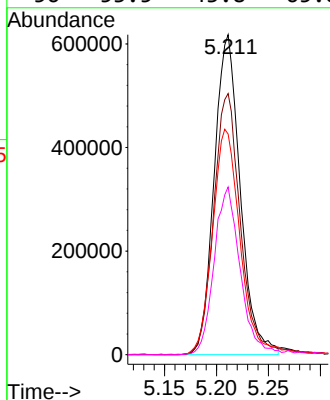
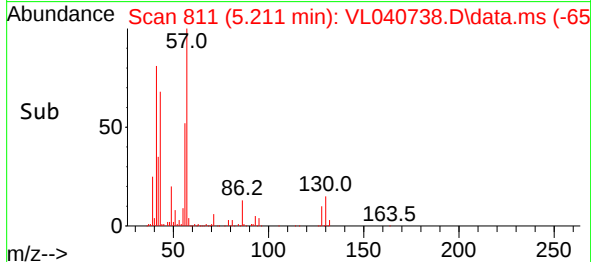
Instrument :
MSVOA_L
ClientSampleId :
OA1



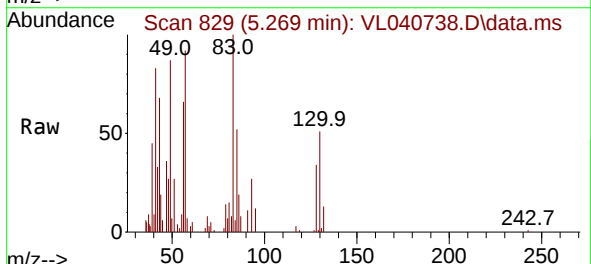
Tgt Ion: 57 Resp: 1079308
Ion Ratio Lower Upper
57 100
41 84.7 75.2 112.8
43 75.3 185.6 278.4
56 53.5 43.8 65.8

Manual Integrations
APPROVED

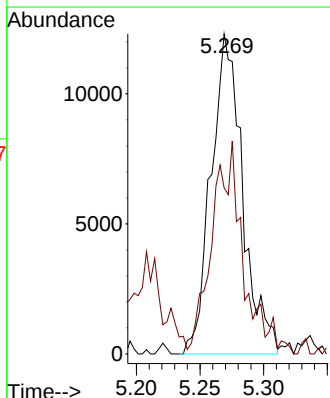
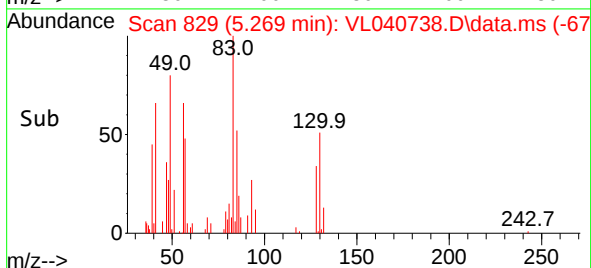
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

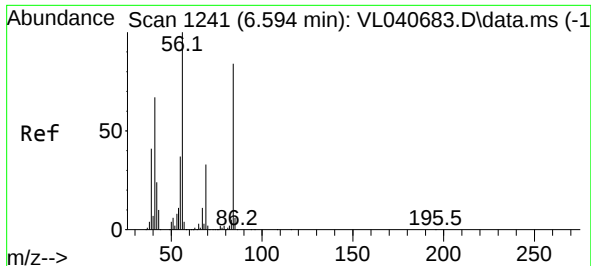


#29
Chloroform
Concen: 0.113 ppbv m
RT: 5.269 min Scan# 829
Delta R.T. -0.013 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14



Tgt Ion: 83 Resp: 21206
Ion Ratio Lower Upper
83 100
85 51.9 51.8 77.8





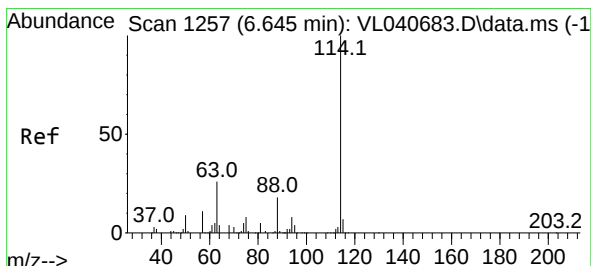
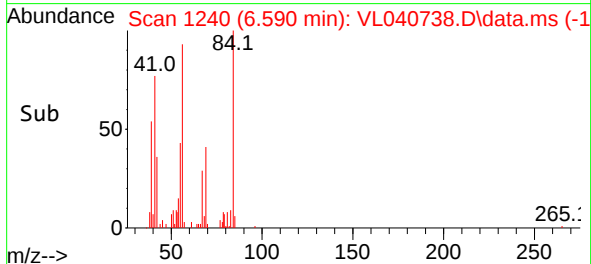
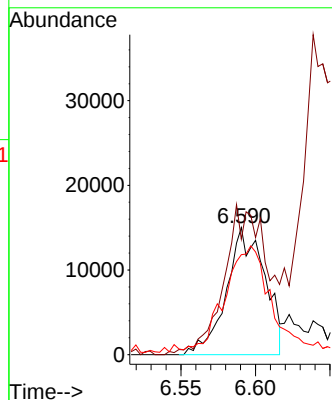
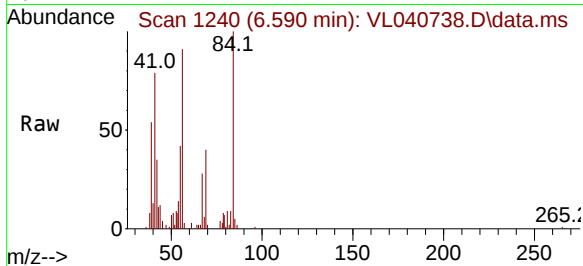
#30
Cyclohexane
Concen: 0.329 ppbv m
RT: 6.590 min Scan# 1240
Delta R.T. -0.019 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 2692
Ion Ratio Lower Upper
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56 0.0 103.2 154.8
41 110.3 65.5 98.3

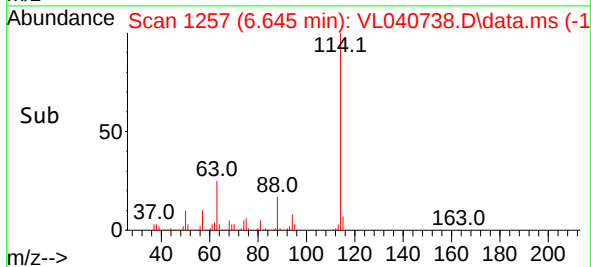
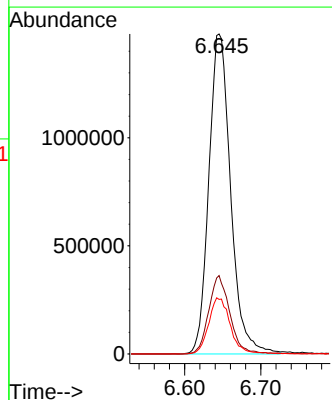
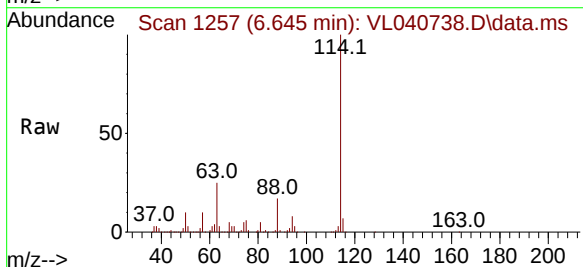
Manual Integrations
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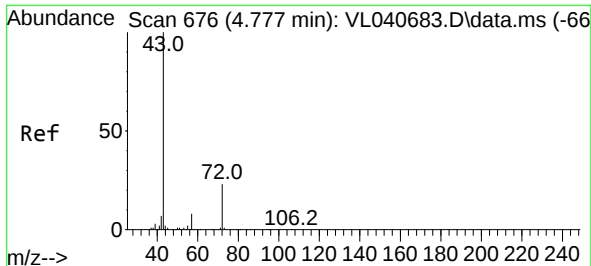
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.016 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

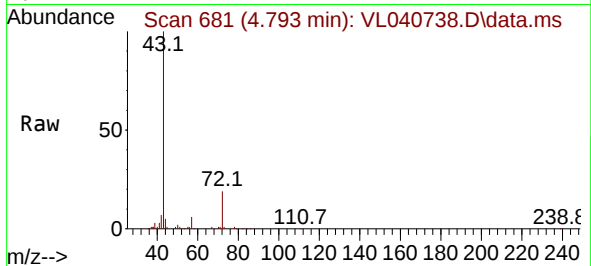
Tgt Ion:114 Resp: 2950878
Ion Ratio Lower Upper
114 100
63 24.0 21.1 31.7
88 17.5 14.5 21.7





#34
2-Butanone
Concen: 1.096 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

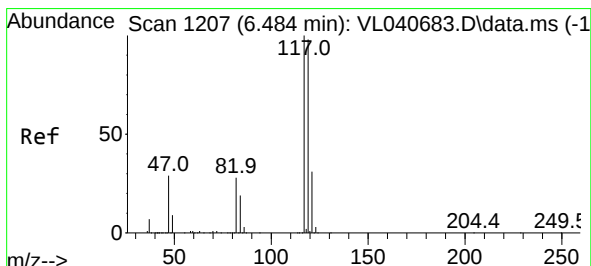
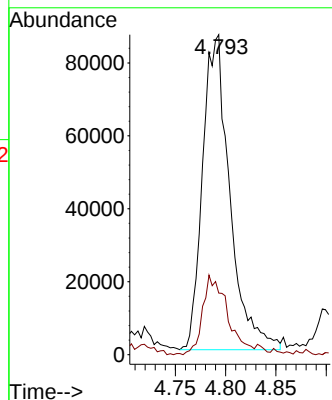
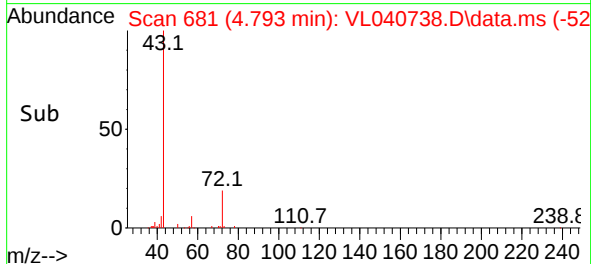
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 16264
Ion Ratio Lower Upper
43 100
72 25.2 18.6 27.8

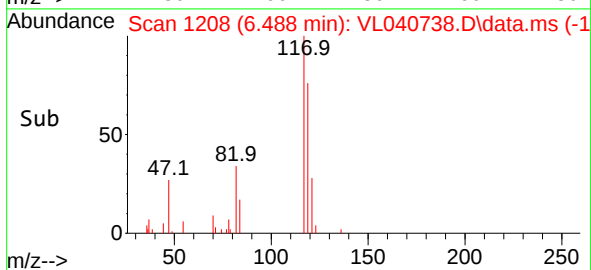
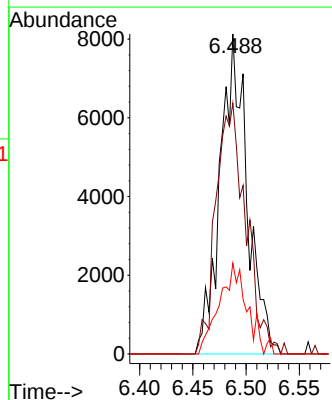
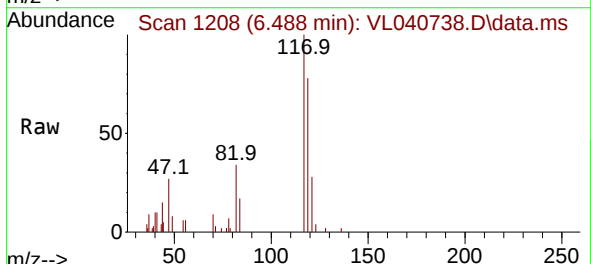
Manual Integrations
APPROVED

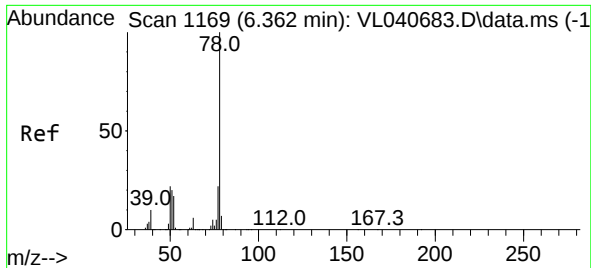
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 6.488 min Scan# 1208
Delta R.T. -0.016 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

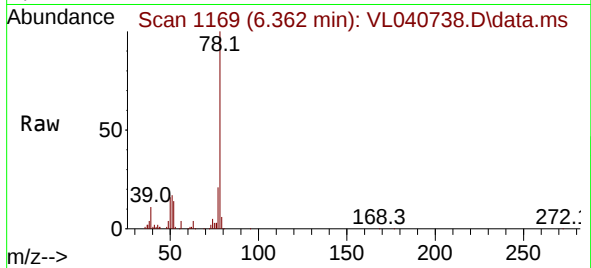
Tgt Ion:117 Resp: 14364
Ion Ratio Lower Upper
117 100
119 78.4 78.6 117.8#
121 28.3 24.7 37.1





#36
Benzene
Concen: 0.736 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.019 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

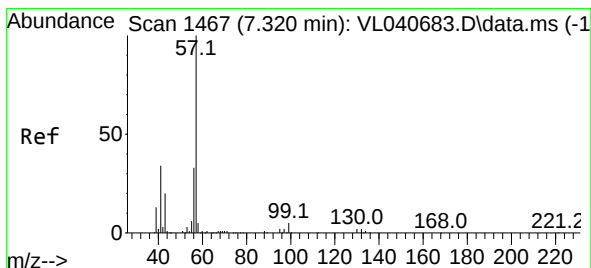
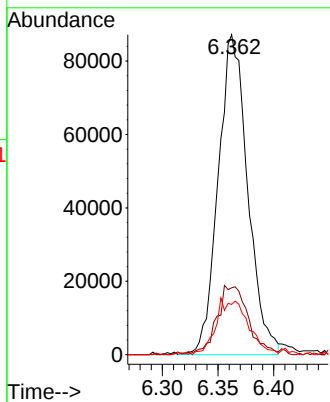
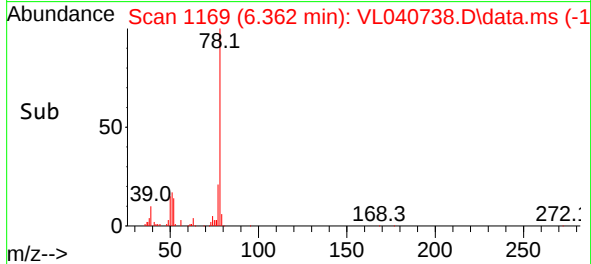
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 78 Resp: 160722
Ion Ratio Lower Upper
78 100
77 20.1 17.9 26.9
50 15.3 17.3 25.9

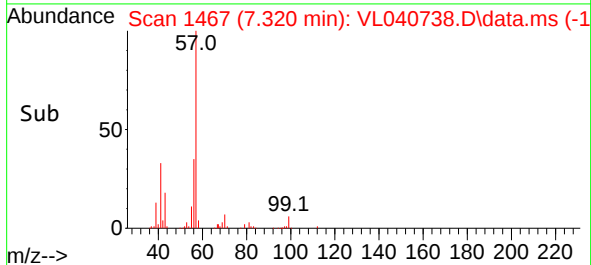
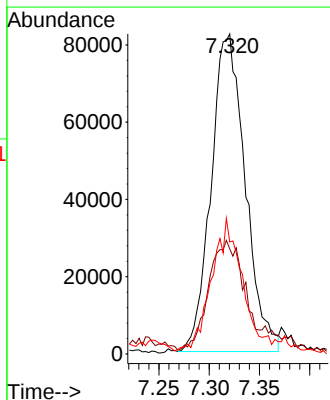
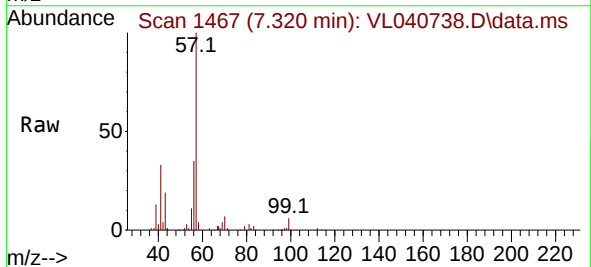
Manual Integrations
APPROVED

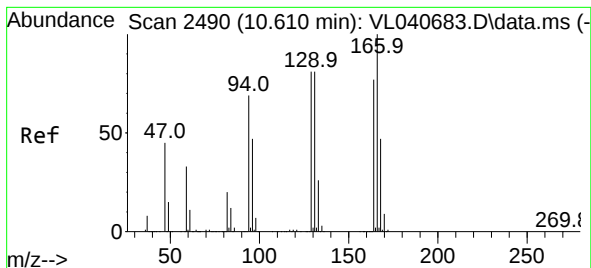
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#44
2,2,4-Trimethylpentane
Concen: 0.556 ppbv
RT: 7.320 min Scan# 1467
Delta R.T. -0.016 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

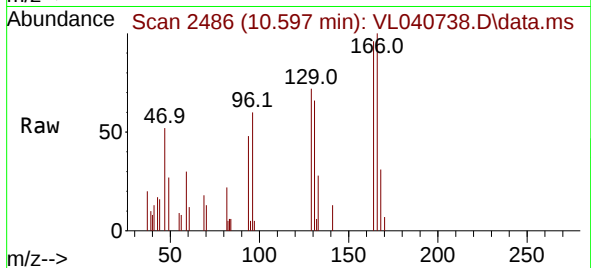
Tgt Ion: 57 Resp: 193605
Ion Ratio Lower Upper
57 100
41 44.6 28.5 42.7#
56 42.8 25.4 38.2#





#52
Tetrachloroethene
Concen: 0.087 ppbv m
RT: 10.597 min Scan# 2490
Delta R.T. -0.029 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

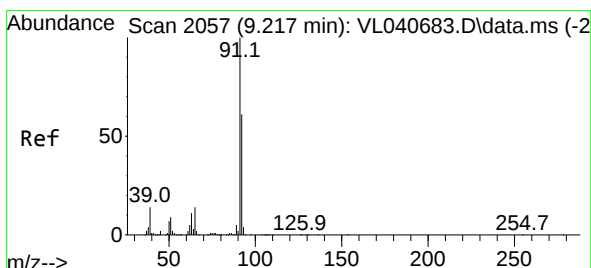
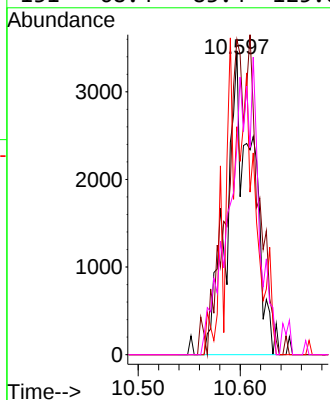
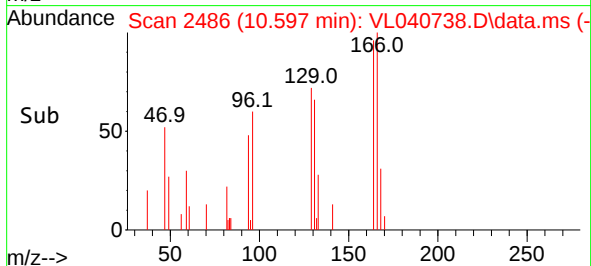
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:164 Resp: 6180
Ion Ratio Lower Upper
164 100
166 103.7 103.4 155.2
129 75.1 83.5 125.3
131 68.4 83.4 125.0#

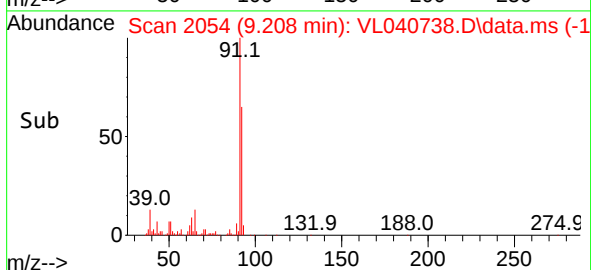
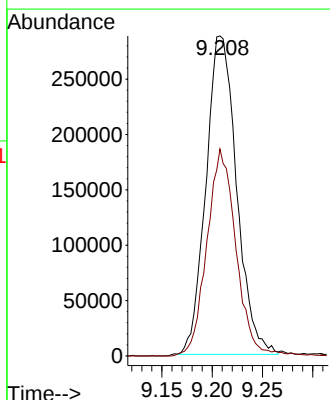
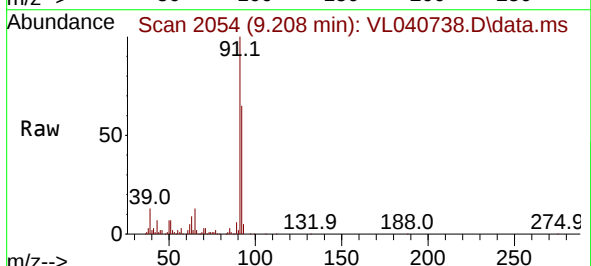
Manual Integrations
APPROVED

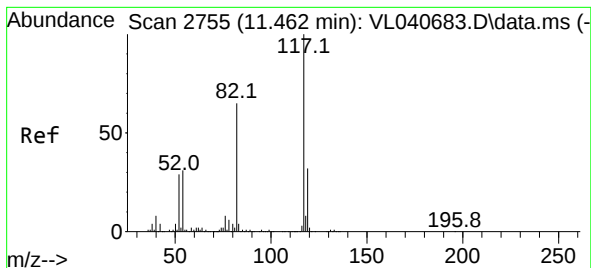
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#53
Toluene
Concen: 2.646 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.022 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

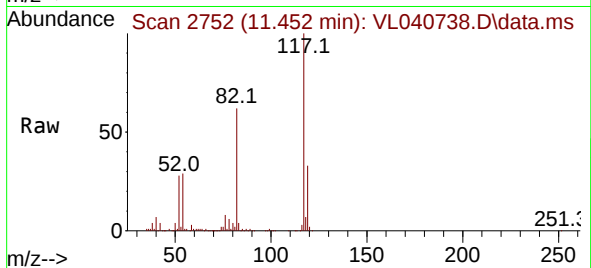
Tgt Ion: 91 Resp: 610536
Ion Ratio Lower Upper
91 100
92 61.7 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

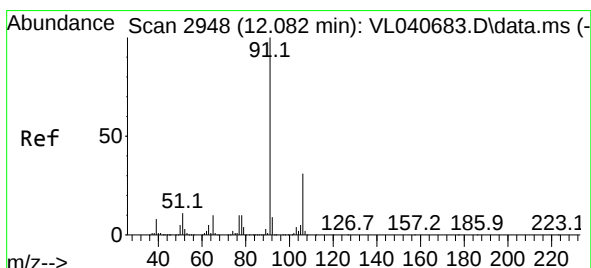
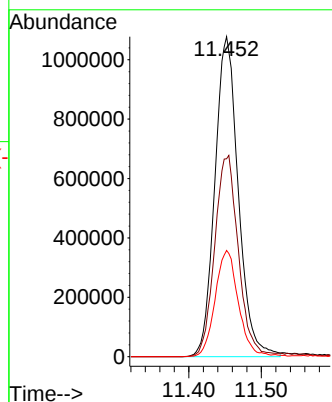
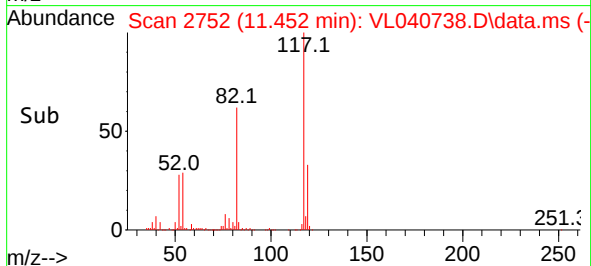
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 242225
Ion Ratio Lower Upper
117 100
82 65.3 51.4 77.0
119 33.0 24.7 37.1

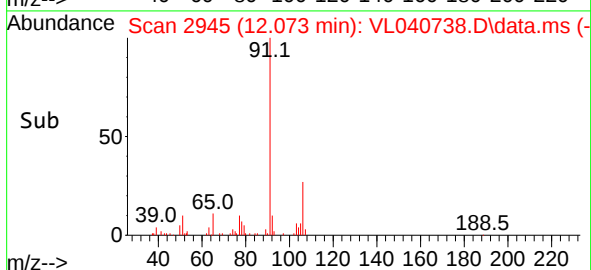
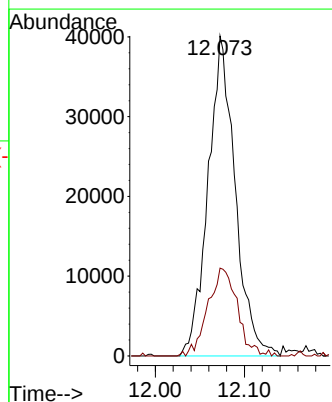
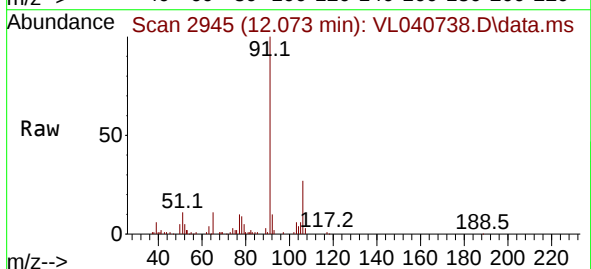
Manual Integrations
APPROVED

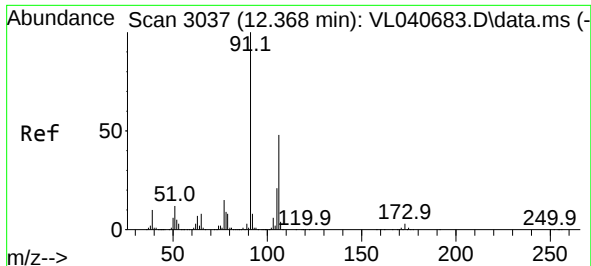
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#58
Ethyl Benzene
Concen: 0.307 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.029 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 91 Resp: 84804
Ion Ratio Lower Upper
91 100
106 27.5 24.7 37.1





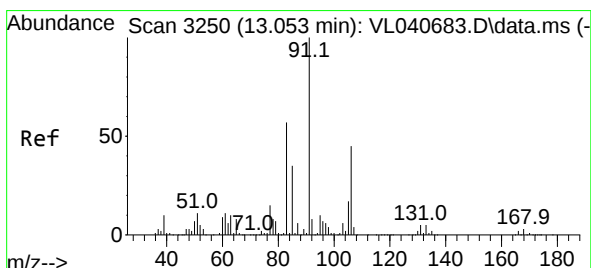
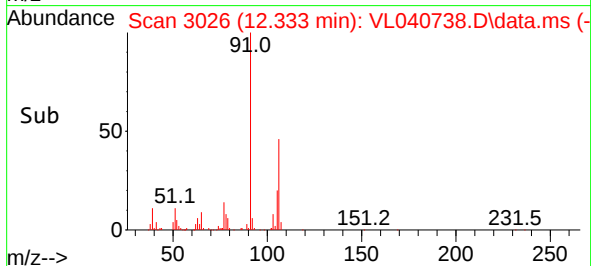
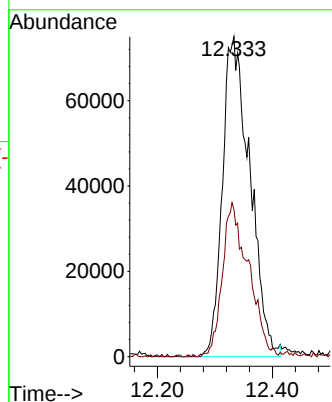
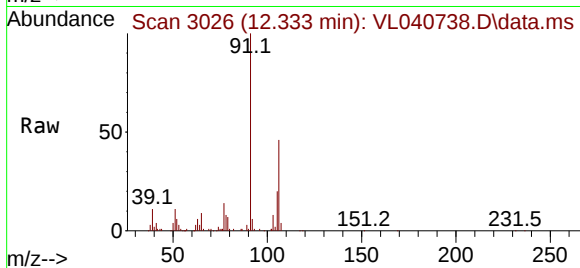
#59
m/p-Xylene
Concen: 0.956 ppbv m
RT: 12.333 min Scan# 3037
Delta R.T. -0.048 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 247879
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2

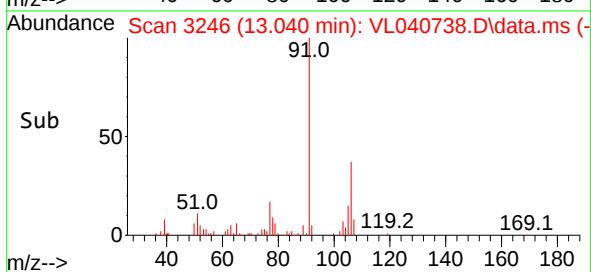
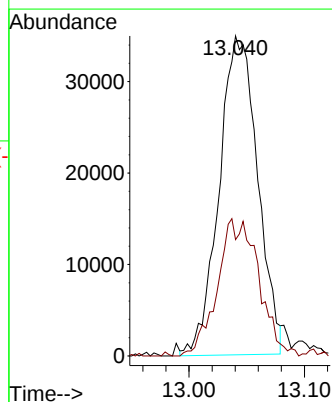
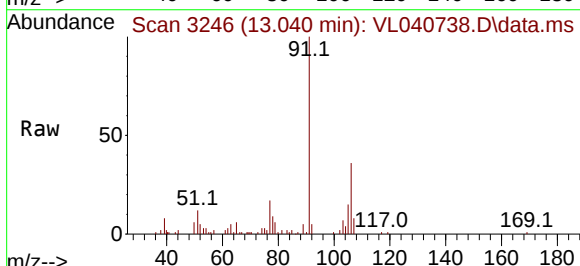
Manual Integrations
APPROVED

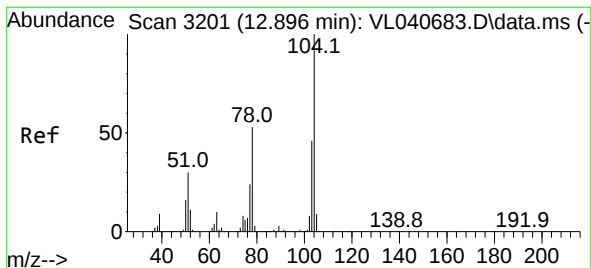
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#60
o-Xylene
Concen: 0.327 ppbv
RT: 13.040 min Scan# 3246
Delta R.T. -0.029 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 91 Resp: 80868
Ion Ratio Lower Upper
91 100
106 46.5 22.3 66.9





#61

Styrene

Concen: 0.149 ppbv m

RT: 12.886 min Scan# 3198

Delta R.T. -0.019 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:104 Resp: 15484

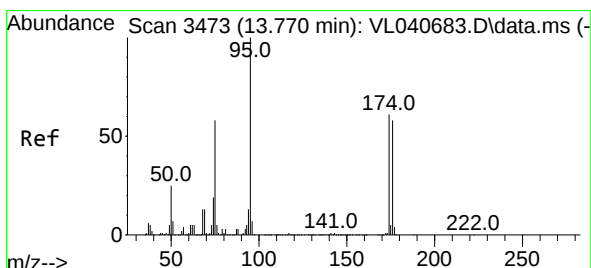
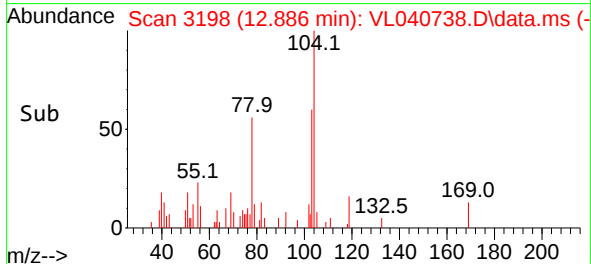
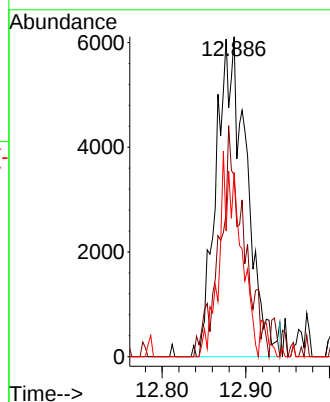
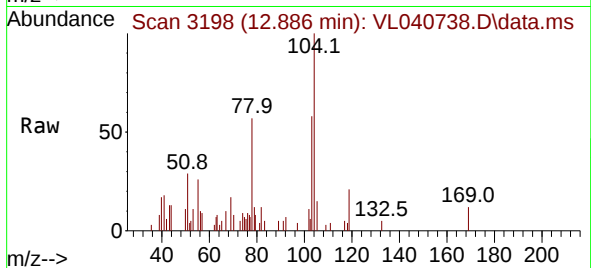
Ion	Ratio	Lower	Upper
104	100		
78	56.4	43.4	65.0
103	47.6	37.2	55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 9.550 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.026 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Tgt Ion: 95 Resp: 1787209

Ion	Ratio	Lower	Upper
95	100		
174	64.6	48.9	73.3
175	4.7	3.5	5.3

