

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022123\
 Data File : VL040199.D
 Acq On : 21 Feb 2023 17:50
 Operator : SY/MD
 Sample : 01626-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023
 Supervised By :Mahesh Dadoda 02/23/2023

Quant Time: Feb 22 03:25:04 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 22 03:17:31 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.202	49	873999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2252216	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	1981955	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1624923	9.970	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.732	85	66755	0.410	ppbv	90
3) Chlorodifluoromethane	2.677	51	34194m	0.328	ppbv	
4) Chloromethane	2.816	50	43173m	0.658	ppbv	
9) Propene	2.703	41	32767m	0.770	ppbv	
10) Heptane	7.594	43	46333m	0.457	ppbv	
11) Trichlorofluoromethane	3.565	101	30452	0.208	ppbv	97
13) Ethanol	3.243	45	143777	36.697	ppbv	95
15) Acetone	3.468	43	728100m	6.920	ppbv	
19) Isopropyl Alcohol	3.591	45	74662m	1.493	ppbv	
20) Methylene Chloride	3.938	84	1061318	19.375	ppbv	94
26) Hexane	5.221	57	714366	8.507	ppbv #	36
30) Cyclohexane	6.623	84	26051m	0.395	ppbv	
34) 2-Butanone	4.800	43	64960	0.585	ppbv	95
35) Carbon Tetrachloride	6.504	117	9988m	0.075	ppbv	
36) Benzene	6.382	78	57616	0.329	ppbv	95
44) 2,2,4-Trimethylpentane	7.340	57	189091	0.646	ppbv #	84
52) Tetrachloroethene	10.635	164	2523m	0.046	ppbv	
53) Toluene	9.240	91	336195	1.791	ppbv	100
58) Ethyl Benzene	12.105	91	44604	0.185	ppbv #	89
59) m/p-Xylene	12.362	91	119110m	0.558	ppbv	
60) o-Xylene	13.076	91	44817m	0.218	ppbv	
74) 1,2,4-Trimethylbenzene	16.137	105	35191m	0.152	ppbv	

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

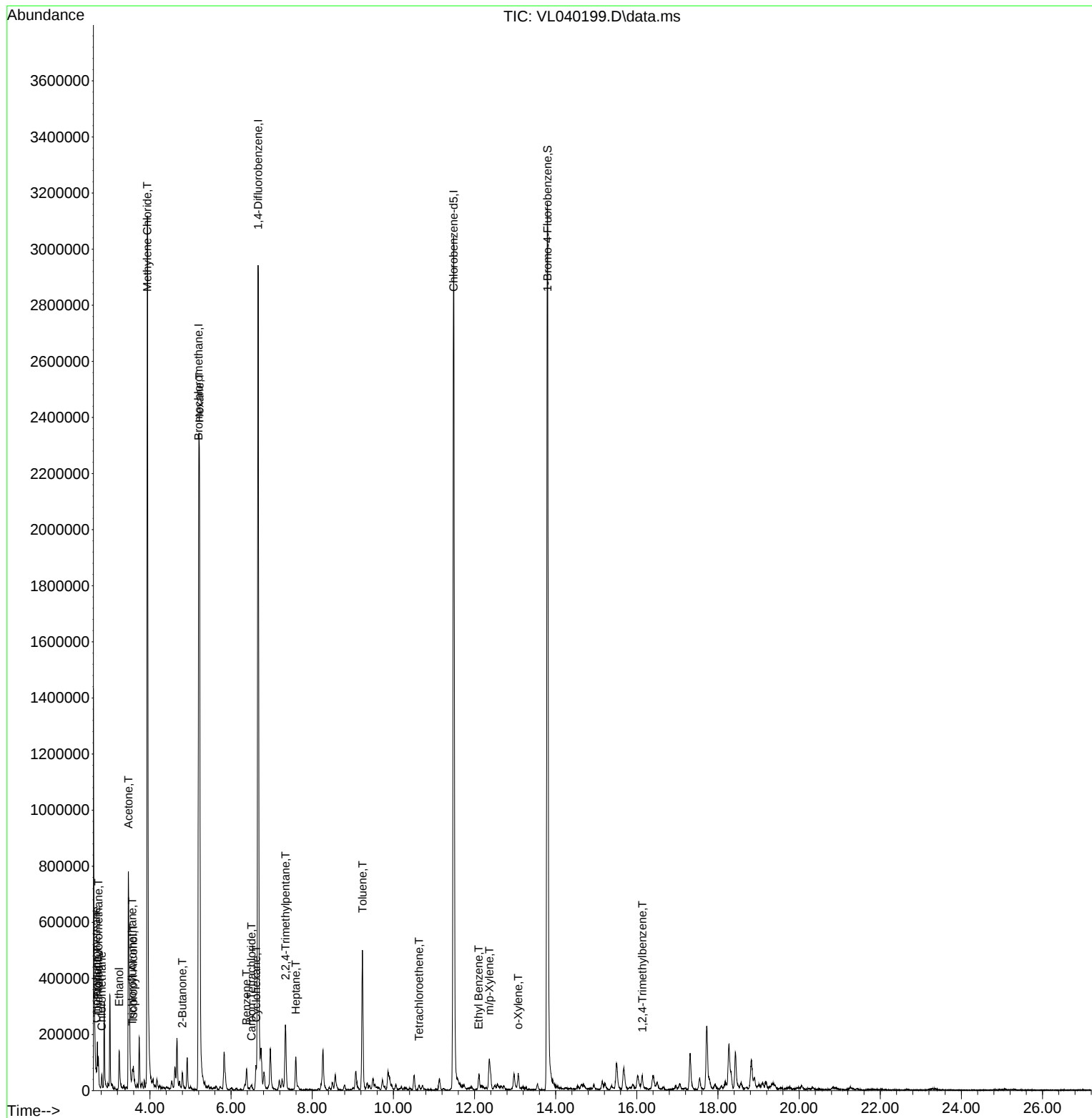
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022123\
Data File : VL040199.D
Acq On : 21 Feb 2023 17:50
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Sample : 01626-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

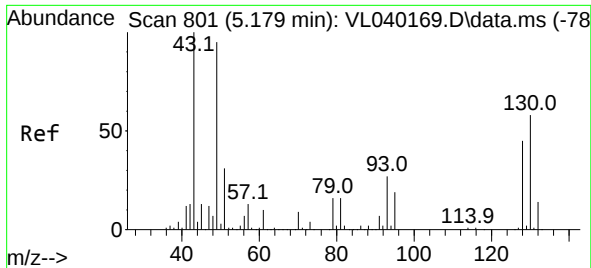
Instrument :
MSVOA_L
ClientSampleId :
IA-3

Quant Time: Feb 22 03:25:04 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 22 03:17:31 2023
Response via : Initial Calibration

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Reviewed By : Semsettin Yesilyurt 02/22/2023
Supervised By : Mahesh Dadoda 02/23/2023





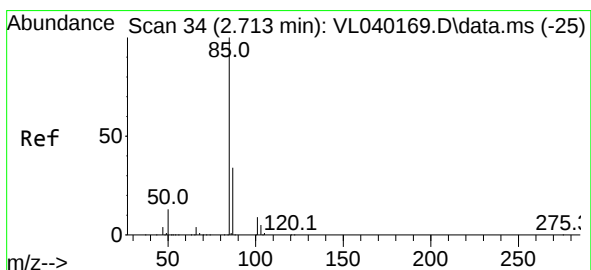
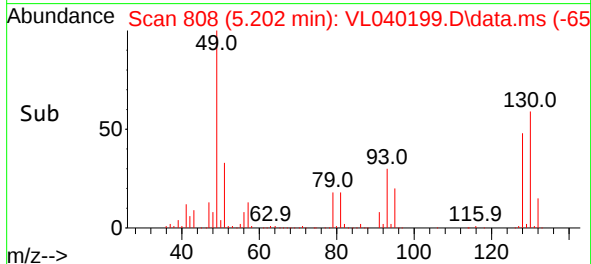
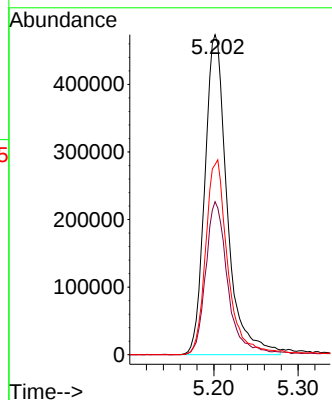
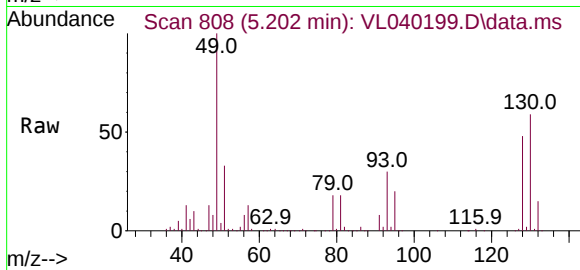
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.202 min Scan# 801
Delta R.T. -0.003 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 49 Resp: 873999
Ion Ratio Lower Upper
49 100
128 48.5 24.1 72.3
130 61.5 30.9 92.8

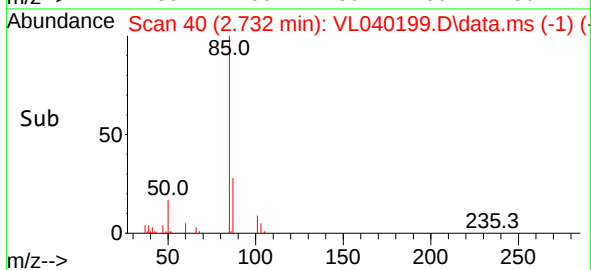
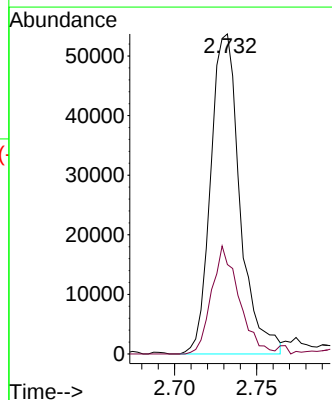
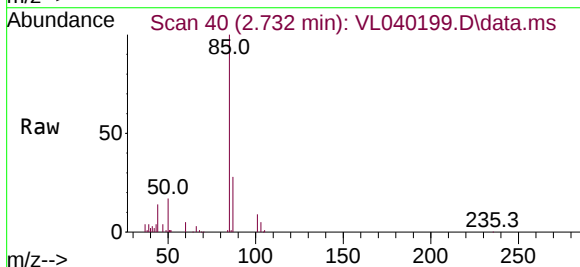
Manual Integrations
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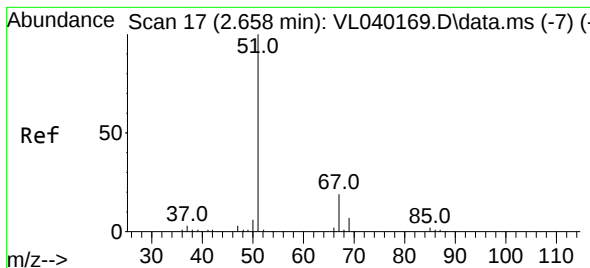
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#2
Dichlorodifluoromethane
Concen: 0.410 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Tgt Ion: 85 Resp: 66755
Ion Ratio Lower Upper
85 100
87 28.0 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.328 ppbv m

RT: 2.677 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040199.D

Acq: 21 Feb 2023 17:50

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tgt Ion: 51 Resp: 34194

Ion Ratio Lower Upper

51 100

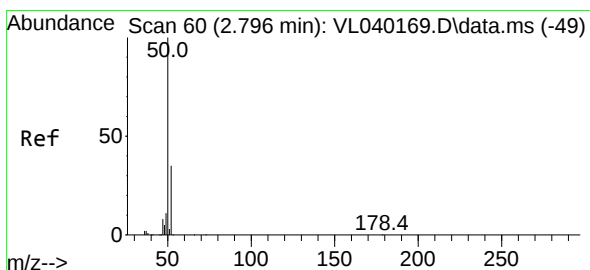
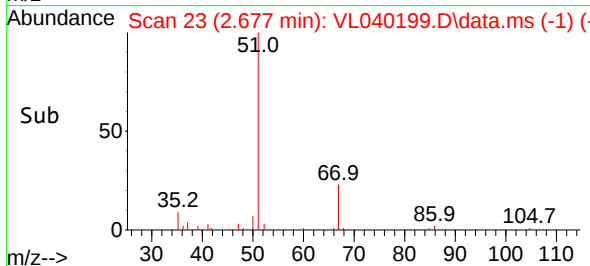
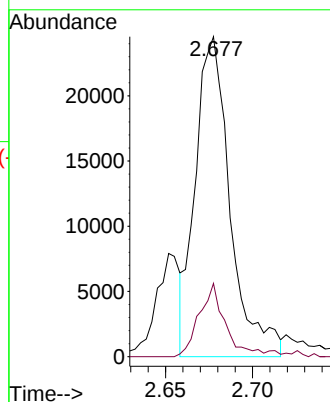
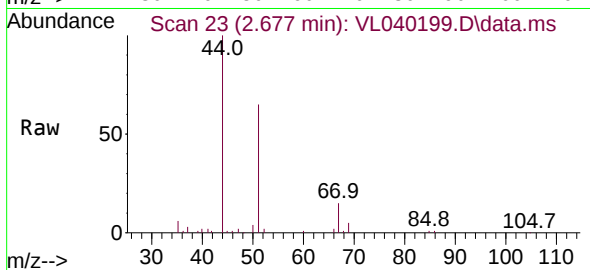
67 18.4 15.4 23.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/22/2023

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#4

Chloromethane

Concen: 0.658 ppbv m

RT: 2.816 min Scan# 66

Delta R.T. 0.003 min

Lab File: VL040199.D

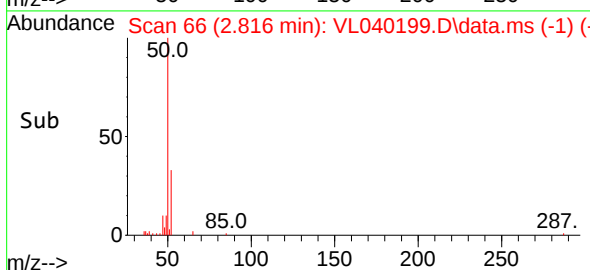
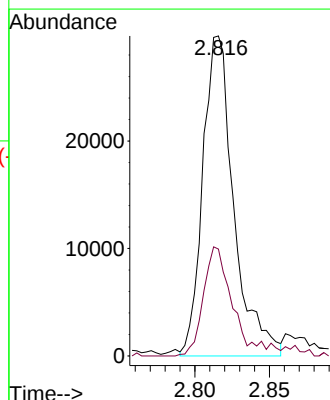
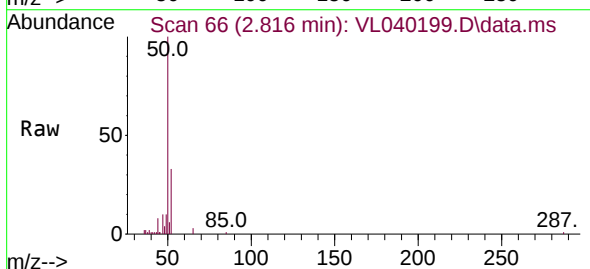
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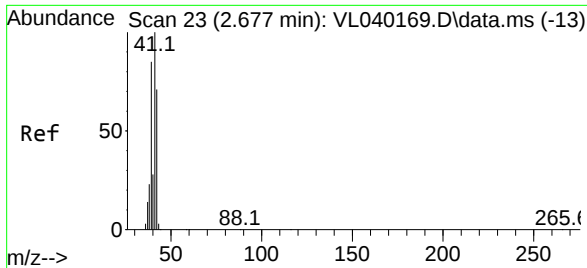
Tgt Ion: 50 Resp: 43173

Ion Ratio Lower Upper

50 100

52 33.4 28.3 42.5





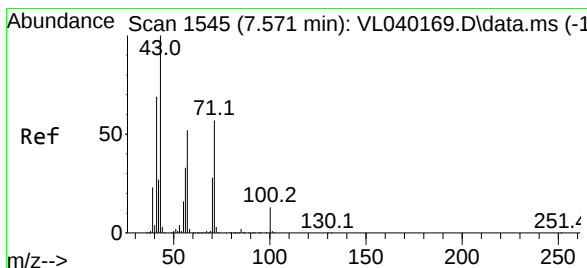
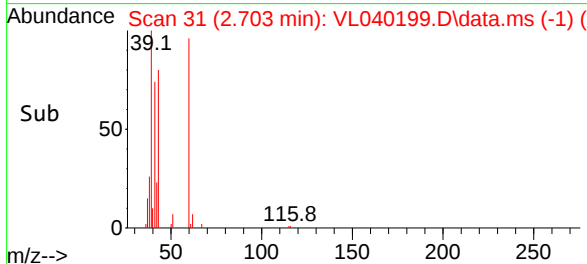
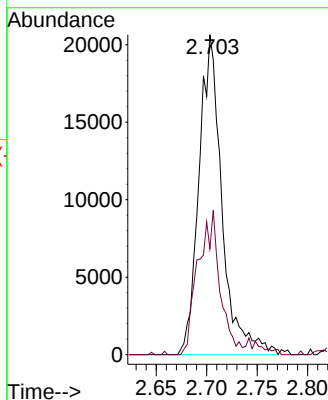
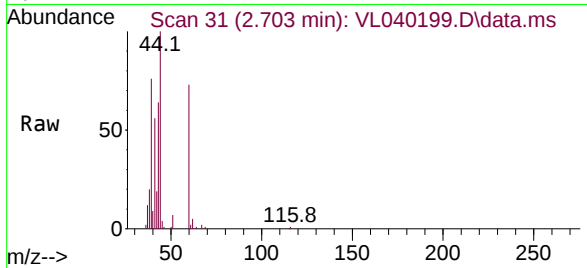
#9
Propene
Concen: 0.770 ppbv m
RT: 2.703 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 41 Resp: 3276
Ion Ratio Lower Upper
41 100
42 46.1 56.9 85.3

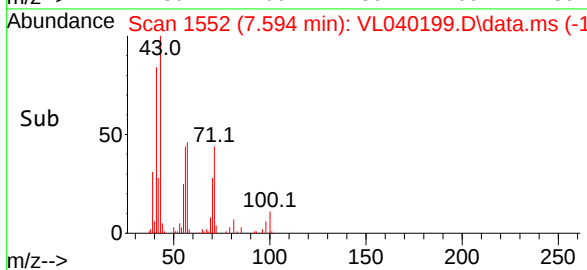
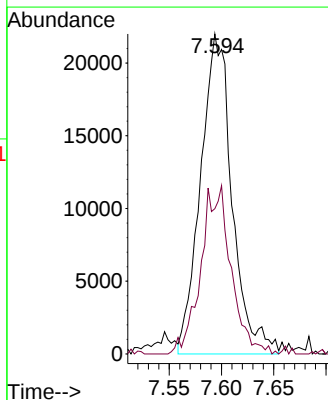
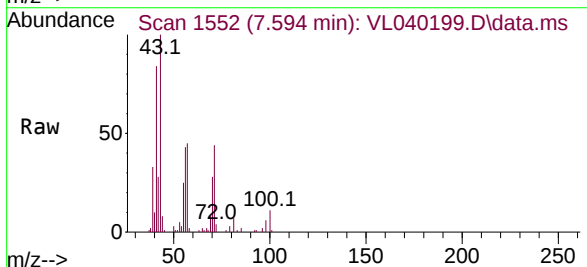
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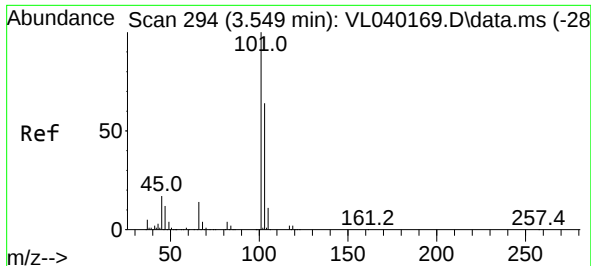
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#10
Heptane
Concen: 0.457 ppbv m
RT: 7.594 min Scan# 1552
Delta R.T. -0.010 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

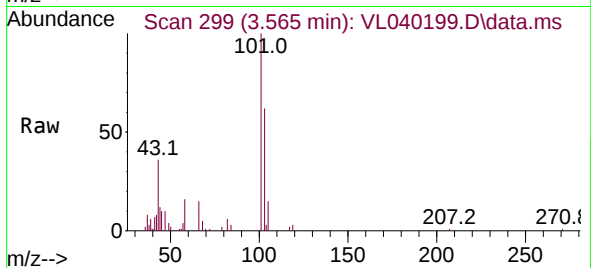
Tgt Ion: 43 Resp: 46333
Ion Ratio Lower Upper
43 100
57 50.1 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 3.565 min Scan# 294
Delta R.T. -0.003 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

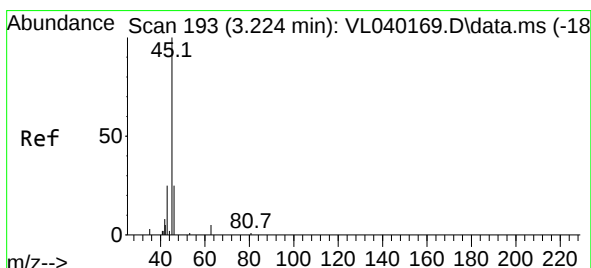
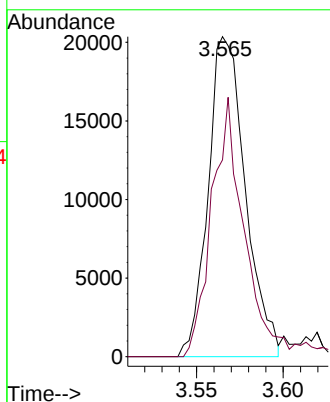
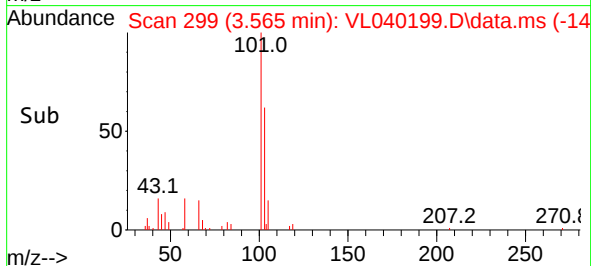
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion:101 Resp: 30452
Ion Ratio Lower Upper
101 100
103 61.5 51.0 76.6

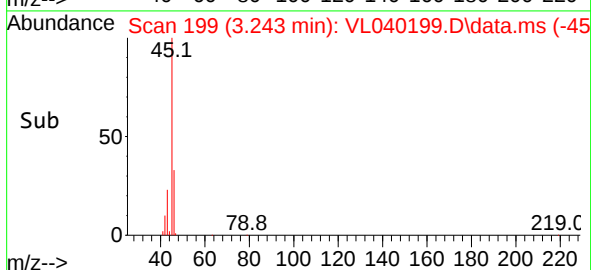
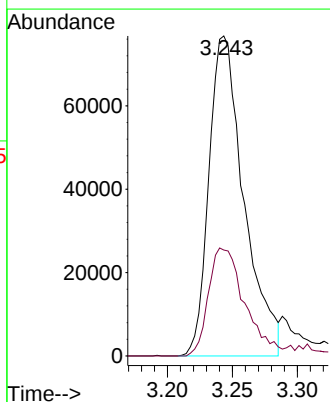
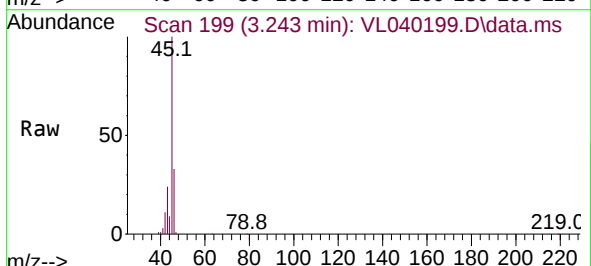
Manual Integrations
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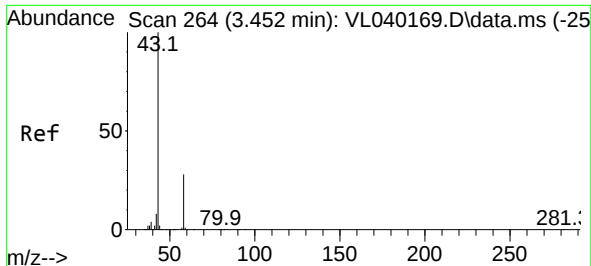
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#13
Ethanol
Concen: 36.697 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

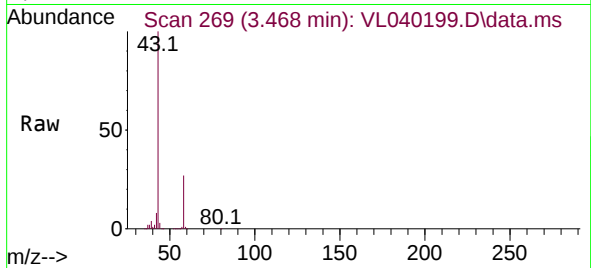
Tgt Ion: 45 Resp: 143777
Ion Ratio Lower Upper
45 100
46 35.8 13.3 53.1





#15
Acetone
Concen: 6.920 ppbv m
RT: 3.468 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

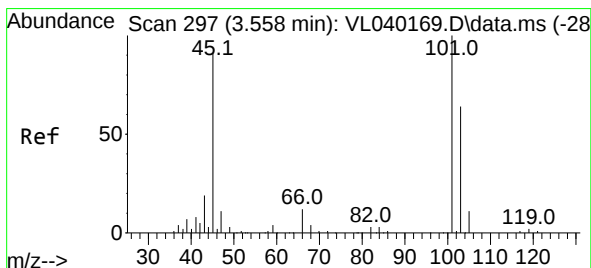
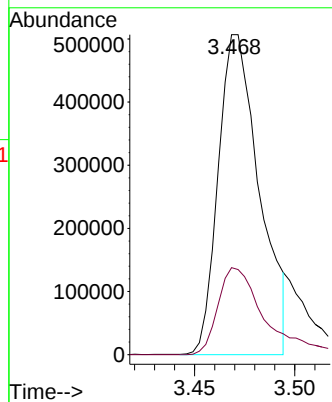
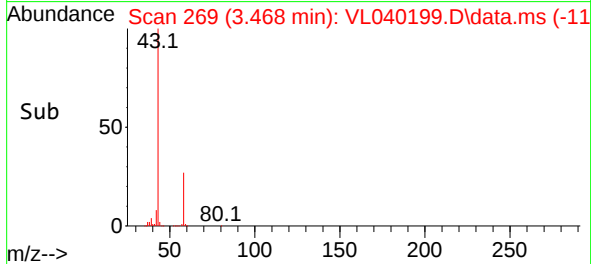
Instrument :
MSVOA_L
ClientSampleId :
IA-3



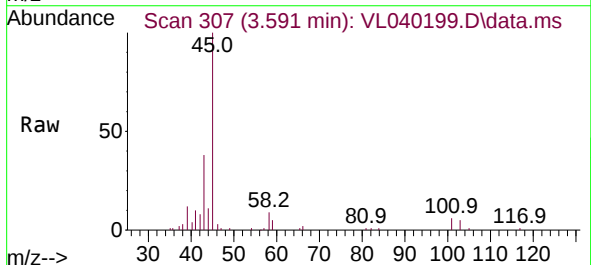
Tgt Ion: 43 Resp: 728100
Ion Ratio Lower Upper
43 100
58 32.4 22.4 33.6

Manual Integrations
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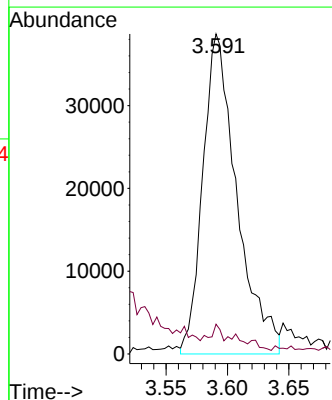
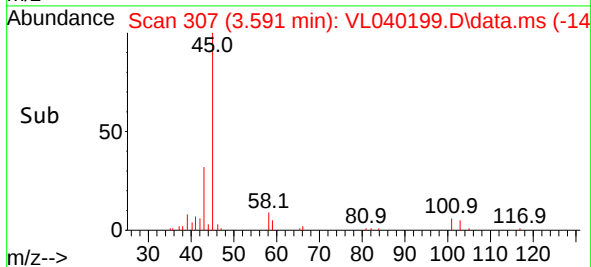
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

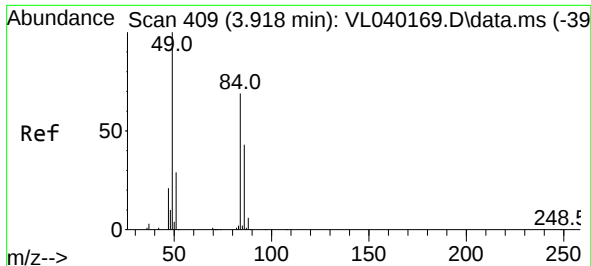


#19
Isopropyl Alcohol
Concen: 1.493 ppbv m
RT: 3.591 min Scan# 307
Delta R.T. 0.010 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50



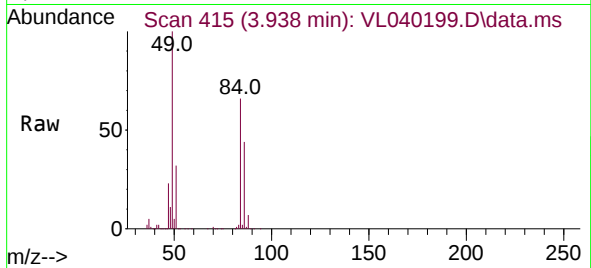
Tgt Ion: 45 Resp: 74662
Ion Ratio Lower Upper
45 100
58 316.1 2.6 3.8#





#20
Methylene Chloride
Concen: 19.375 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.000 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

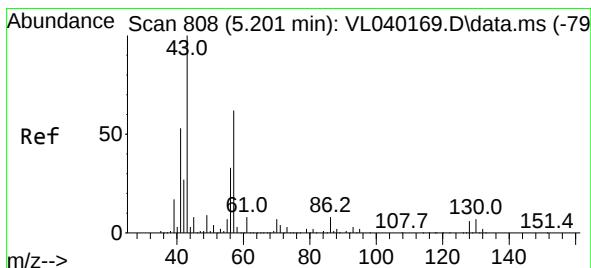
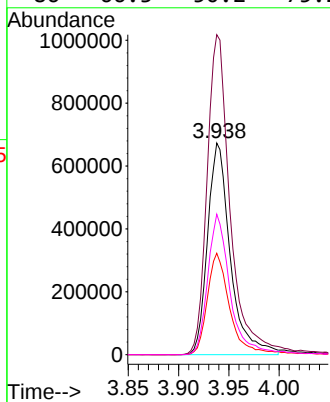
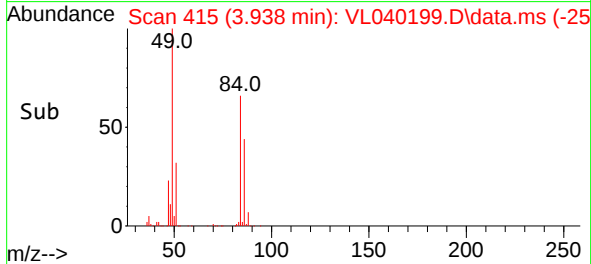
Instrument :
MSVOA_L
ClientSampleId :
IA-3



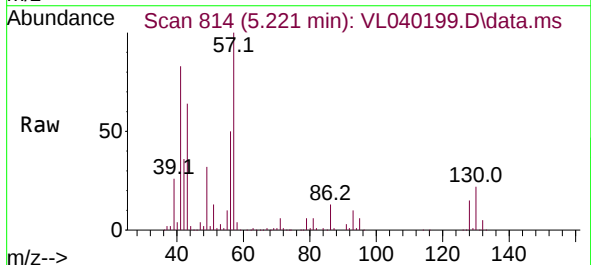
Tgt Ion: 84 Resp: 1061318
Ion Ratio Lower Upper
84 100
49 151.1 115.5 173.3
51 47.9 33.1 49.7
86 66.3 50.2 75.2

Manual Integrations
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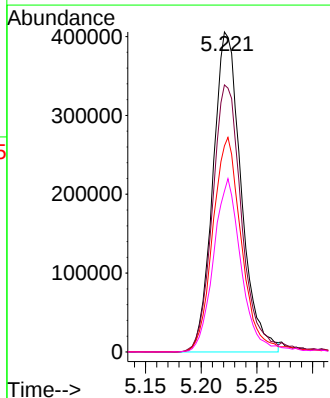
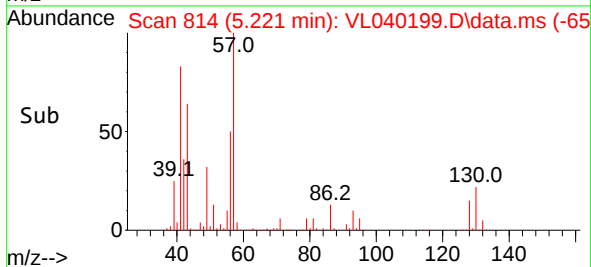
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

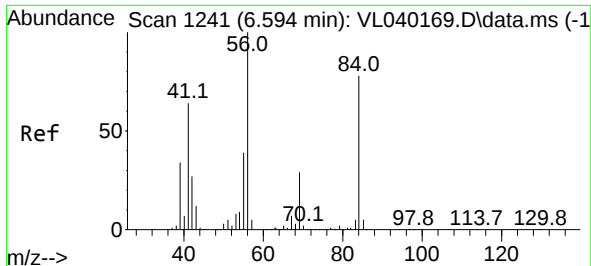


#26
Hexane
Concen: 8.507 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.003 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50



Tgt Ion: 57 Resp: 714366
Ion Ratio Lower Upper
57 100
41 88.1 74.3 111.5
43 69.2 193.0 289.4#
56 54.1 42.6 64.0





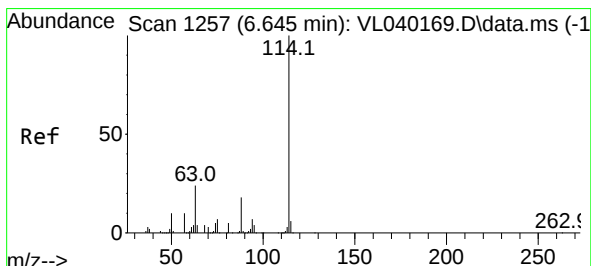
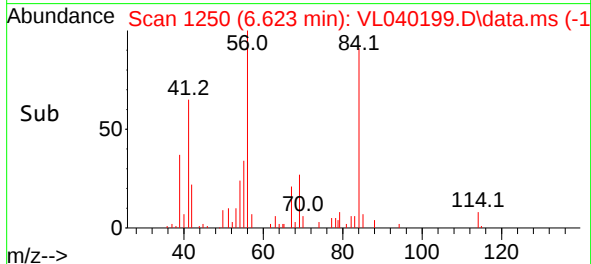
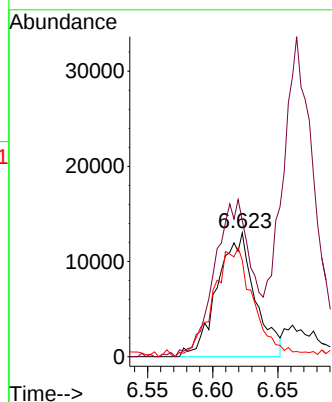
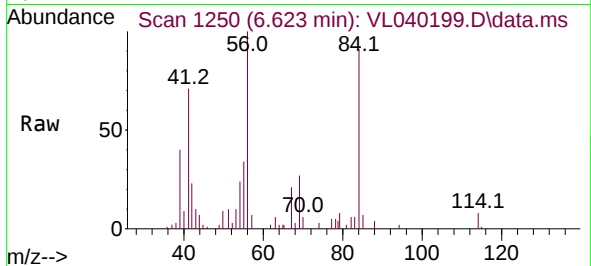
#30
Cyclohexane
Concen: 0.395 ppbv m
RT: 6.623 min Scan# 1250
Delta R.T. 0.000 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 84 Resp: 2605
Ion Ratio Lower Upper
84 100
56 0.0 109.9 164.9
41 0.0 67.8 101.6

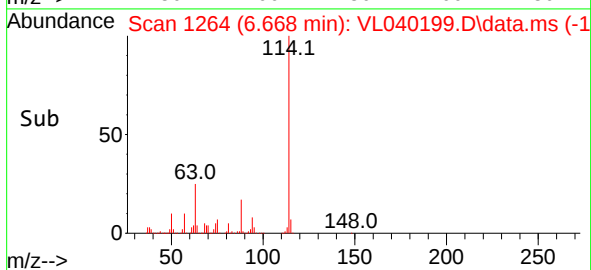
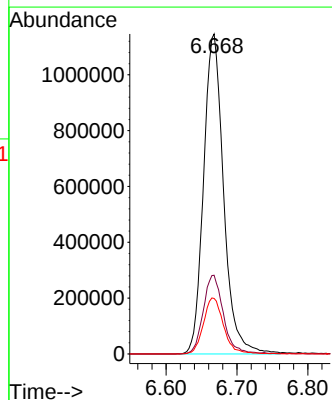
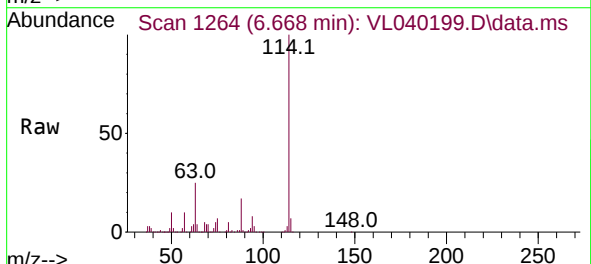
Manual Integrations
APPROVED

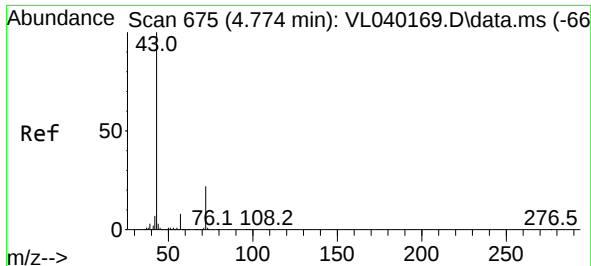
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

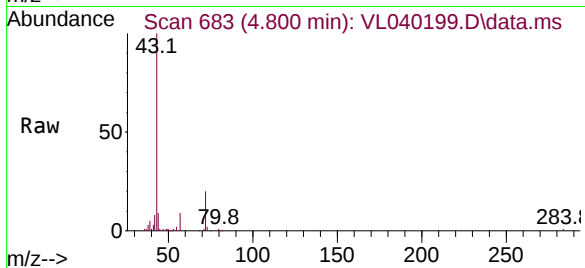
Tgt Ion:114 Resp: 2252216
Ion Ratio Lower Upper
114 100
63 25.0 20.4 30.6
88 17.7 14.3 21.5





#34
2-Butanone
Concen: 0.585 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

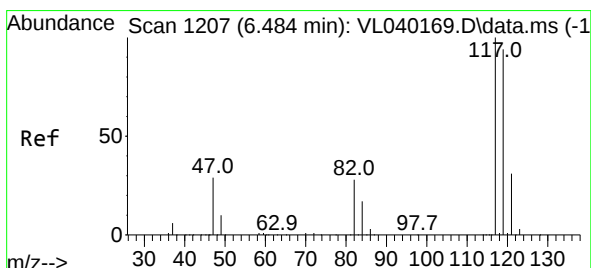
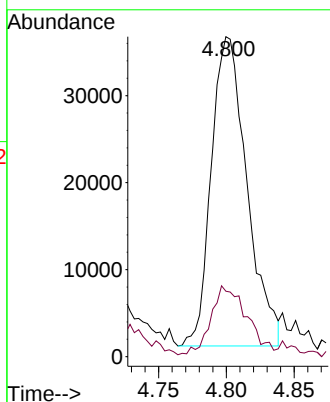
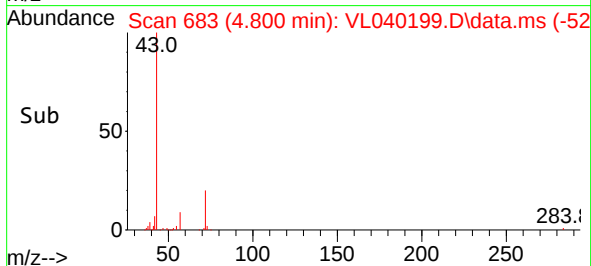
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 43 Resp: 64960
Ion Ratio Lower Upper
43 100
72 24.7 17.8 26.8

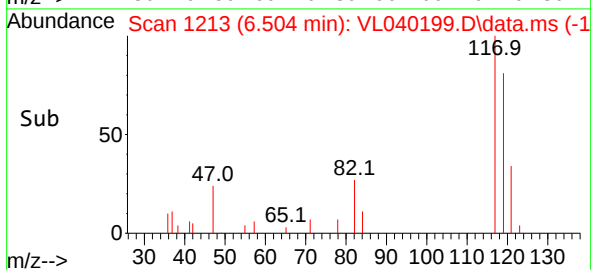
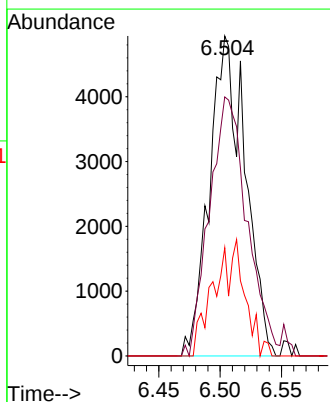
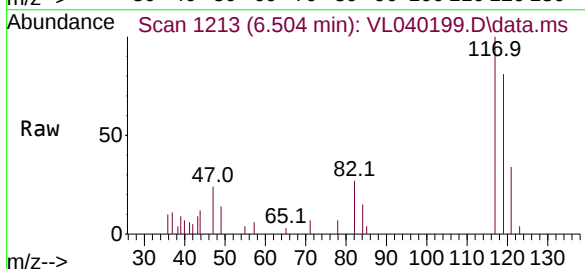
Manual Integrations
APPROVED

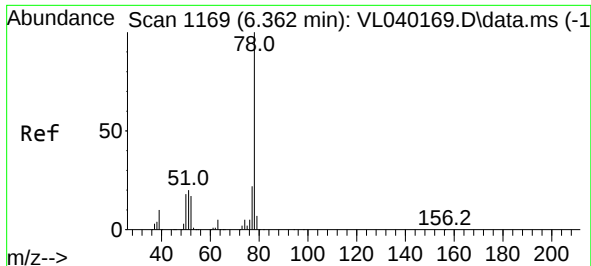
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 6.504 min Scan# 1213
Delta R.T. -0.010 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Tgt Ion:117 Resp: 9988
Ion Ratio Lower Upper
117 100
119 80.9 75.0 112.6
121 33.8 25.0 37.4





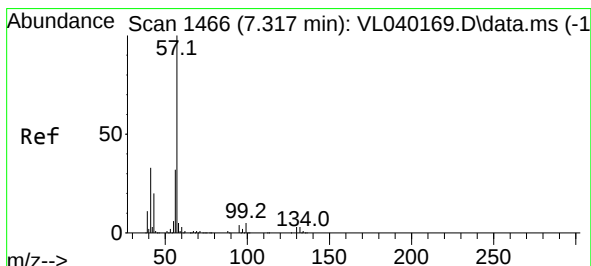
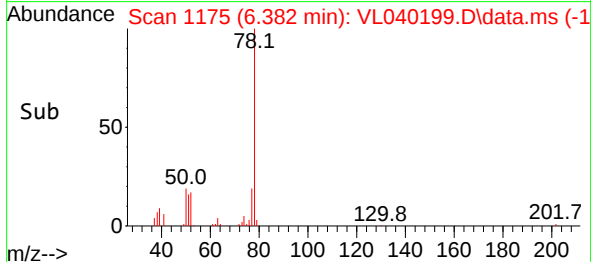
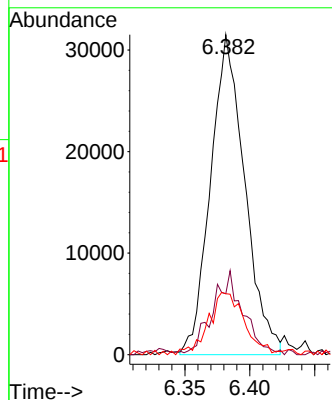
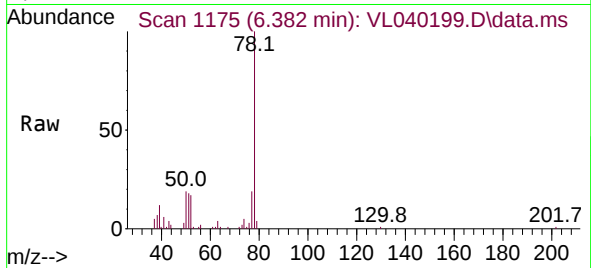
#36
Benzene
Concen: 0.329 ppbv
RT: 6.382 min Scan# 1169
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 78 Resp: 57610
Ion Ratio Lower Upper
78 100
77 18.0 17.5 26.3
50 18.2 14.6 22.0

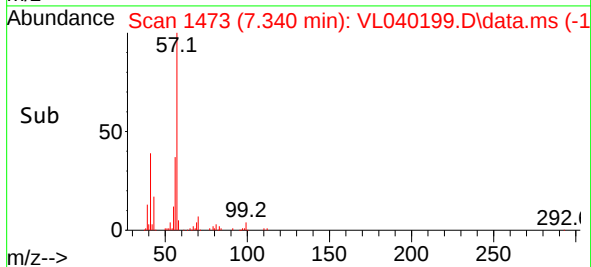
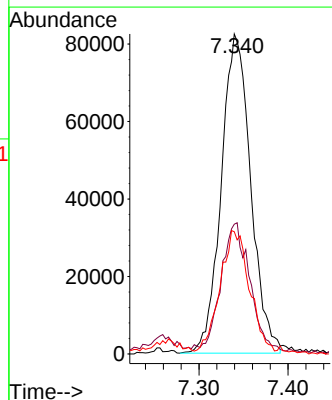
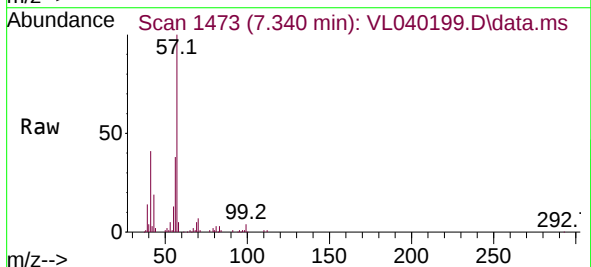
Manual Integrations
APPROVED

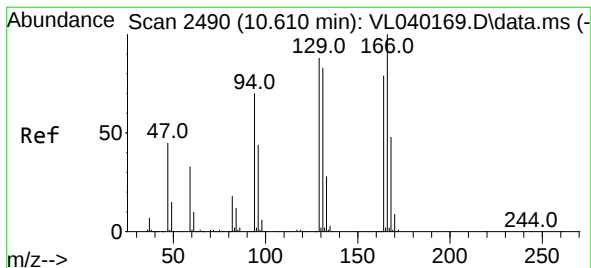
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#44
2,2,4-Trimethylpentane
Concen: 0.646 ppbv
RT: 7.340 min Scan# 1473
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

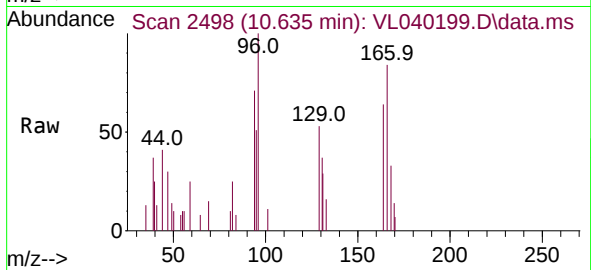
Tgt Ion: 57 Resp: 189091
Ion Ratio Lower Upper
57 100
41 41.3 26.2 39.4#
56 40.3 24.9 37.3#





#52
Tetrachloroethene
Concen: 0.046 ppbv m
RT: 10.635 min Scan# 2490
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

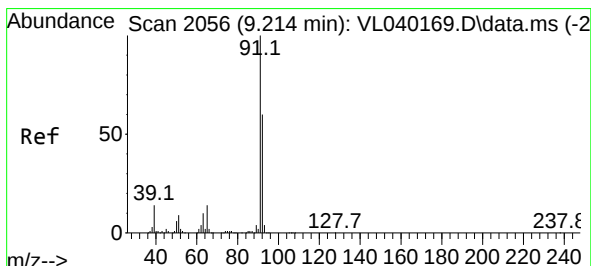
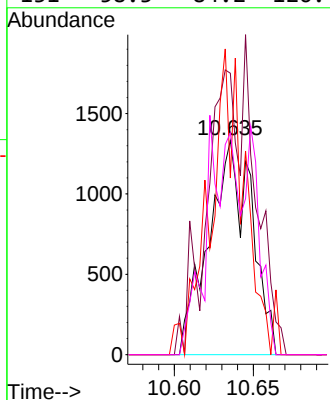
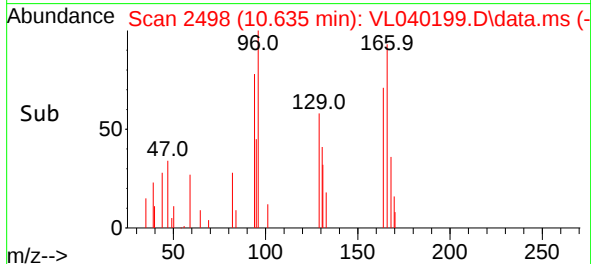
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion:164 Resp: 252.0
Ion Ratio Lower Upper
164 100
166 131.4 101.5 152.3
129 82.4 89.0 133.4
131 58.3 84.2 126.4

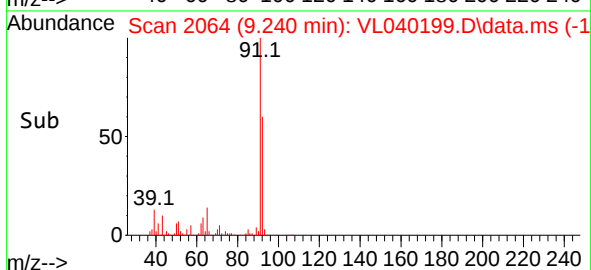
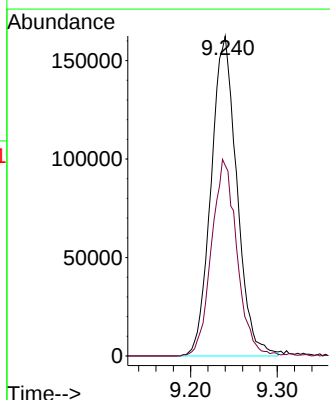
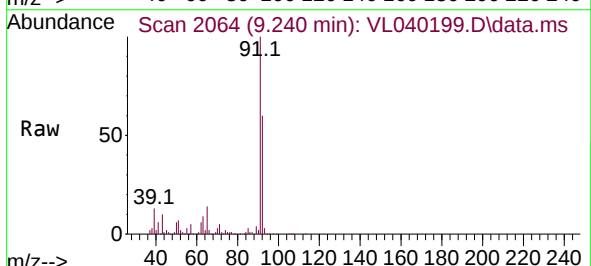
Manual Integrations
APPROVED

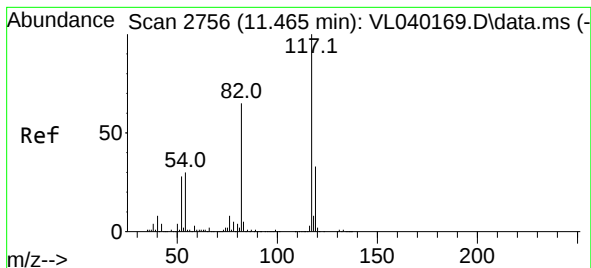
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#53
Toluene
Concen: 1.791 ppbv
RT: 9.240 min Scan# 2064
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

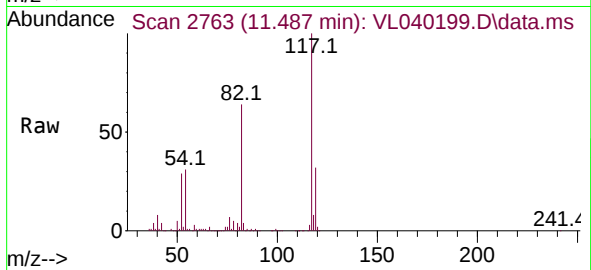
Tgt Ion: 91 Resp: 336195
Ion Ratio Lower Upper
91 100
92 60.9 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

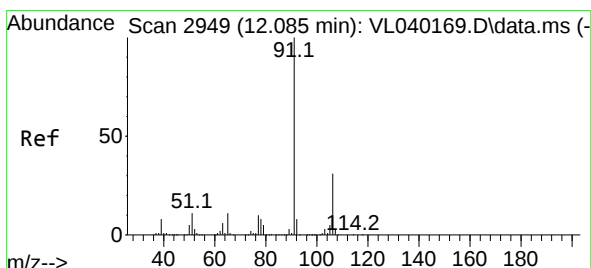
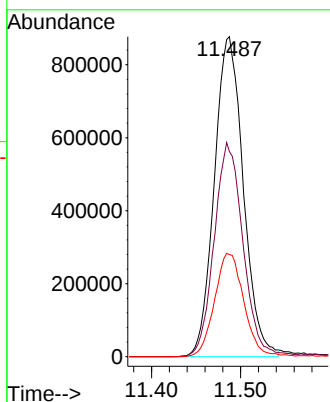
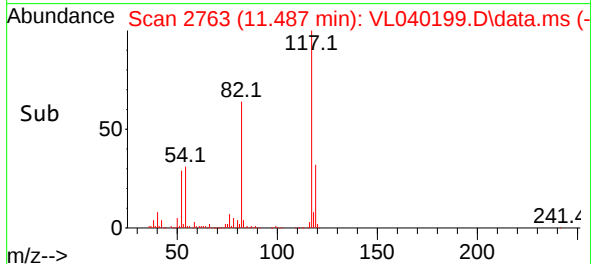
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion:117 Resp: 198195
Ion Ratio Lower Upper
117 100
82 67.6 53.3 79.9
119 32.7 24.6 37.0

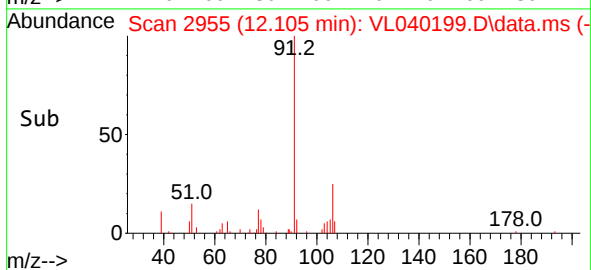
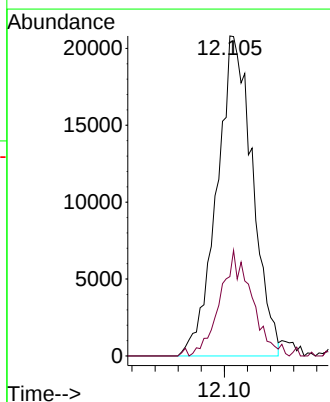
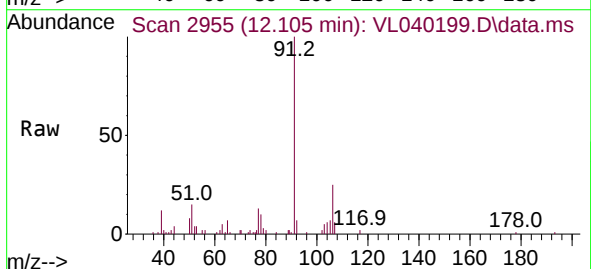
Manual Integrations
APPROVED

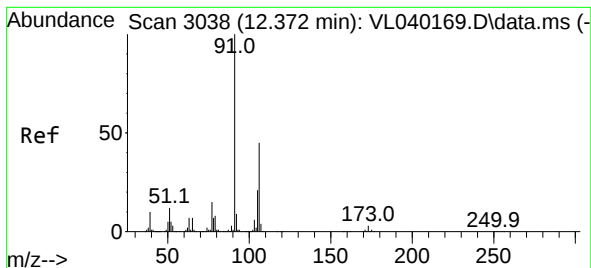
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#58
Ethyl Benzene
Concen: 0.185 ppbv
RT: 12.105 min Scan# 2955
Delta R.T. -0.013 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Tgt Ion: 91 Resp: 44604
Ion Ratio Lower Upper
91 100
106 24.8 24.9 37.3#





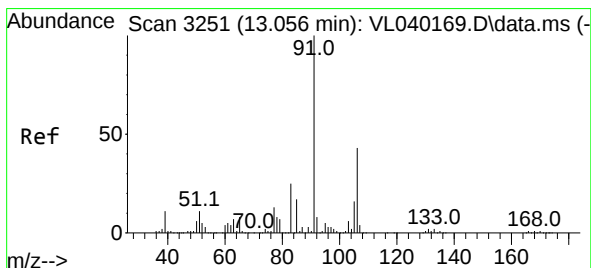
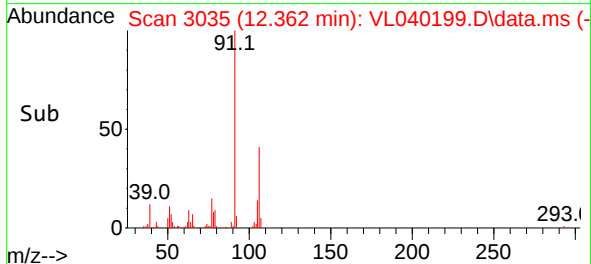
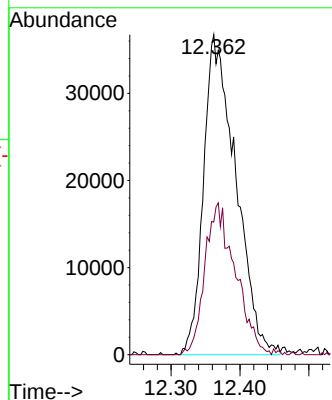
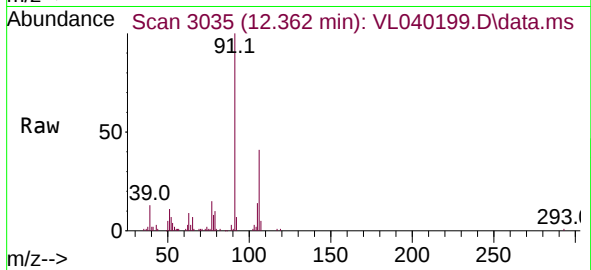
#59
m/p-Xylene
Concen: 0.558 ppbv m
RT: 12.362 min Scan# 3035
Delta R.T. -0.035 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 91 Resp: 119110
Ion Ratio Lower Upper
91 100
106 45.2 34.6 51.8

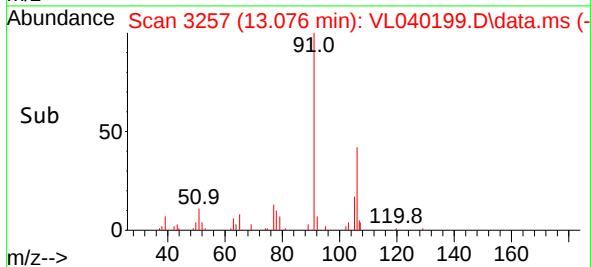
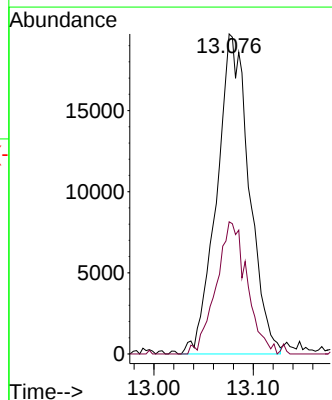
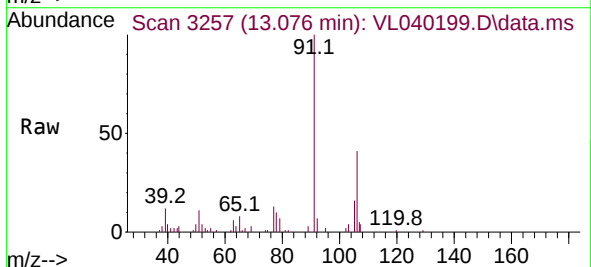
Manual Integrations
APPROVED

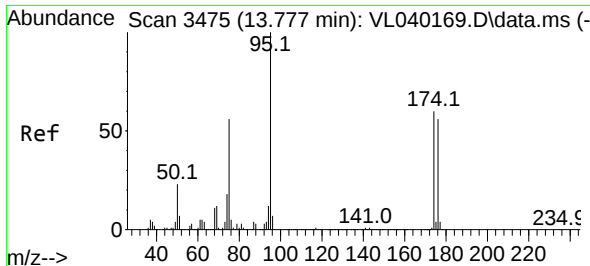
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#60
o-Xylene
Concen: 0.218 ppbv m
RT: 13.076 min Scan# 3257
Delta R.T. -0.010 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

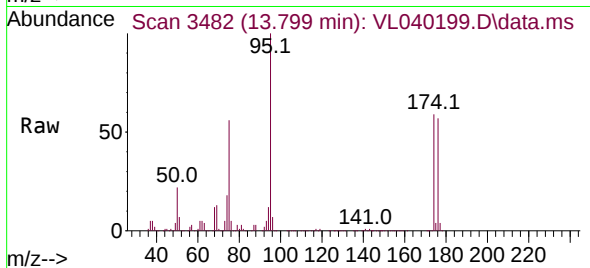
Tgt Ion: 91 Resp: 44817
Ion Ratio Lower Upper
91 100
106 39.7 21.6 65.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.970 ppbv
RT: 13.799 min Scan# 3475
Delta R.T. -0.006 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

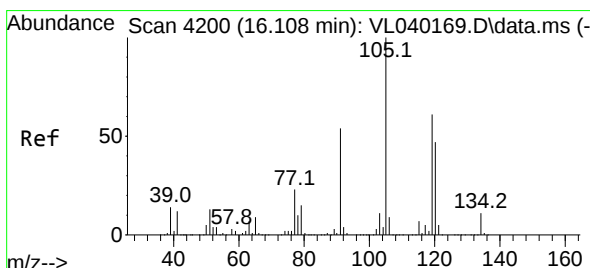
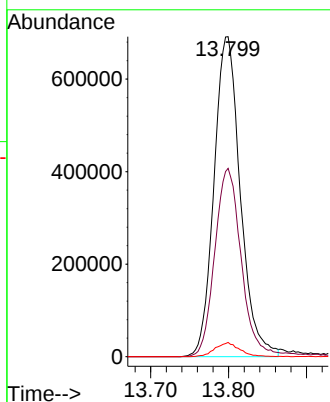
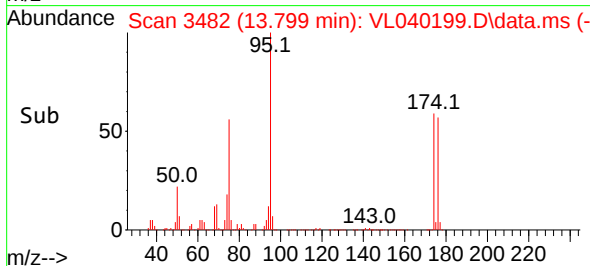
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 95 Resp: 162492
Ion Ratio Lower Upper
95 100
174 59.7 48.2 72.2
175 4.3 3.4 5.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.152 ppbv m
RT: 16.137 min Scan# 4209
Delta R.T. 0.000 min
Lab File: VL040199.D
Acq: 21 Feb 2023 17:50

Tgt Ion:105 Resp: 35191
Ion Ratio Lower Upper
105 100
120 33.1 37.9 56.9#
91 8.9 43.7 65.5#
77 17.9 18.3 27.5#

