

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040423\
 Data File : VL040306.D
 Acq On : 4 Apr 2023 15:33
 Operator : SY/MD
 Sample : 02168-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2023
 Supervised By :Mahesh Dadoda 04/05/2023

Quant Time: Apr 05 01:30:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	952159	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2303345	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2108031	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1763571	9.990	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	77290	0.414	ppbv	100
3) Chlorodifluoromethane	2.655	51	57203m	0.478	ppbv	
4) Chloromethane	2.800	50	31694	0.429	ppbv #	88
9) Propene	2.687	41	1514769m	33.024	ppbv	
10) Heptane	7.581	43	16173	0.147	ppbv	91
11) Trichlorofluoromethane	3.549	101	39086	0.231	ppbv	93
13) Ethanol	3.221	45	2109168	626.962	ppbv	97
15) Acetone	3.449	43	17590337	151.747	ppbv #	64
19) Isopropyl Alcohol	3.562	45	2251781	40.552	ppbv #	90
20) Methylene Chloride	3.925	84	171136	3.509	ppbv	97
25) Ethyl Acetate	5.192	43	471829	2.174	ppbv	96
26) Hexane	5.201	57	107684	1.209	ppbv #	19
29) Chloroform	5.269	83	28840	0.183	ppbv	96
34) 2-Butanone	4.780	43	43644	0.384	ppbv	98
35) Carbon Tetrachloride	6.494	117	10193m	0.071	ppbv	
36) Benzene	6.365	78	67035	0.382	ppbv	97
44) 2,2,4-Trimethylpentane	7.327	57	46680m	0.159	ppbv	
52) Tetrachloroethene	10.619	164	4511m	0.085	ppbv	
53) Toluene	9.217	91	193217	1.050	ppbv	98
58) Ethyl Benzene	12.098	91	27686m	0.115	ppbv	
59) m/p-Xylene	12.343	91	60971m	0.277	ppbv	
60) o-Xylene	13.063	91	21522	0.102	ppbv	99

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

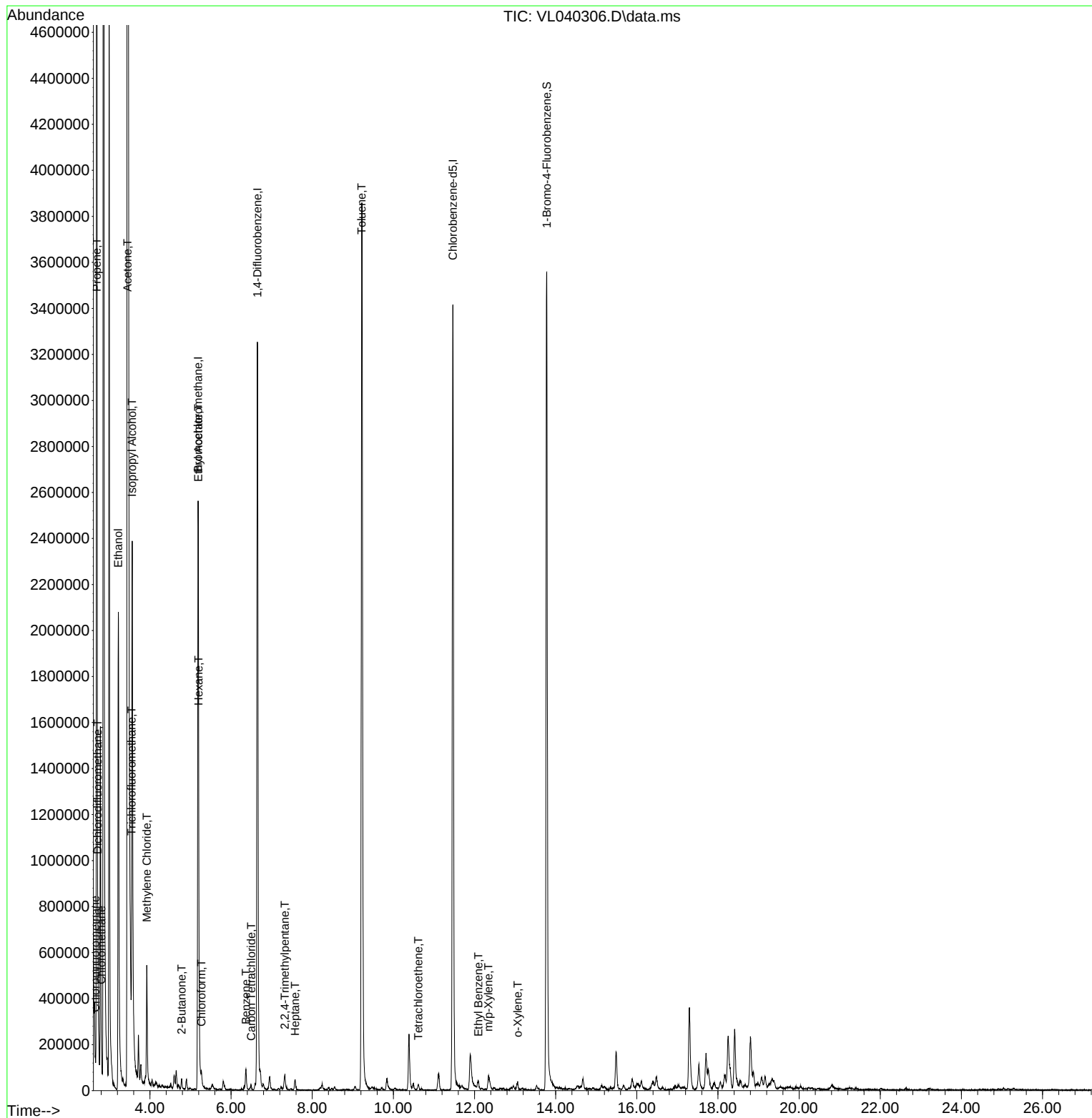
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040423\
Data File : VL040306.D
Acq On : 4 Apr 2023 15:33
Operator : SY/MD
Sample : 02168-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

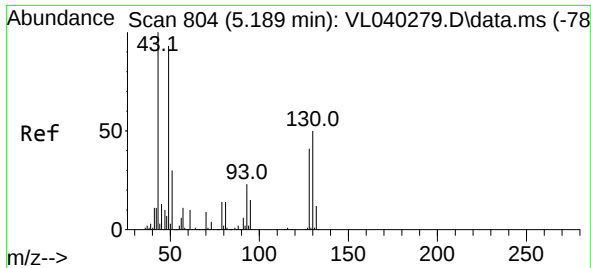
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Apr 05 01:30:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

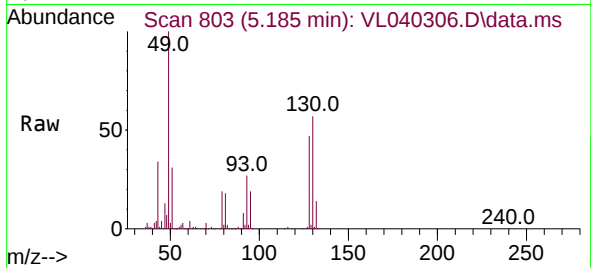
Reviewed By : Semsettin Yesilyurt 04/05/2023
Supervised By : Mahesh Dadoda 04/05/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 804
Delta R.T. -0.004 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

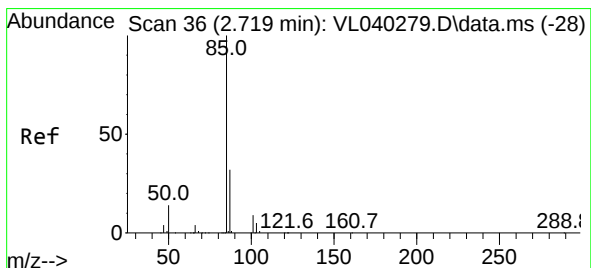
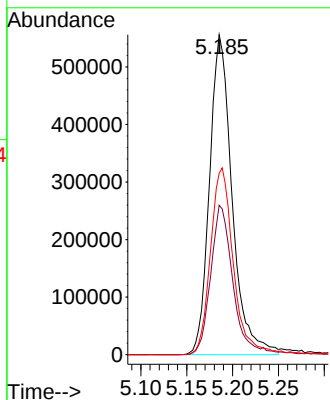
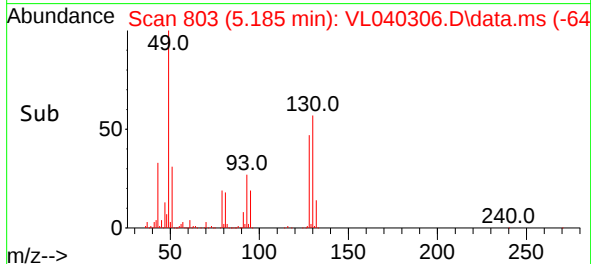
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 95215
Ion Ratio Lower Upper
49 100
128 46.5 22.4 67.3
130 60.5 28.7 86.1

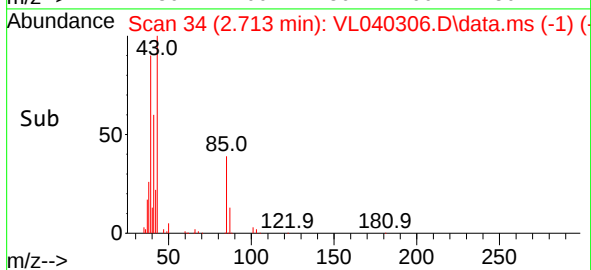
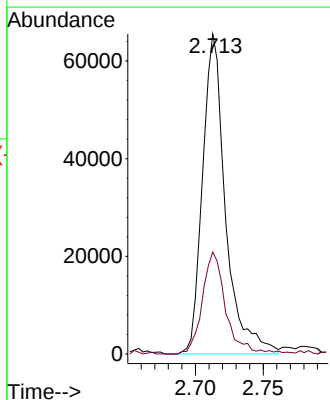
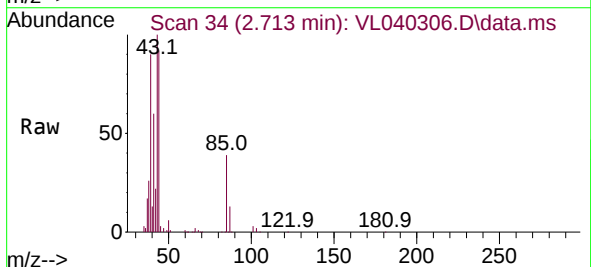
Manual Integrations
APPROVED

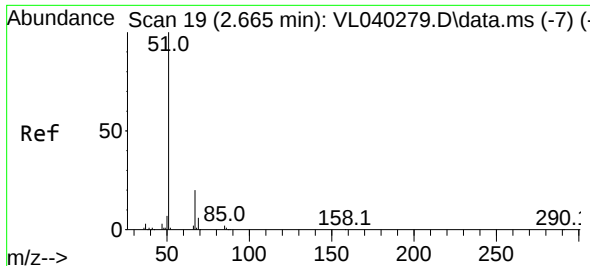
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#2
Dichlorodifluoromethane
Concen: 0.414 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

Tgt Ion: 85 Resp: 77290
Ion Ratio Lower Upper
85 100
87 31.9 25.5 38.3





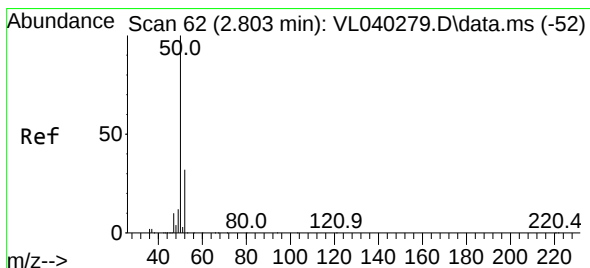
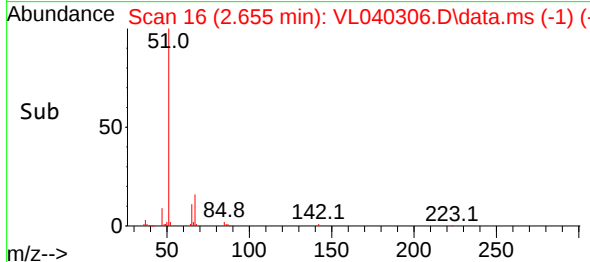
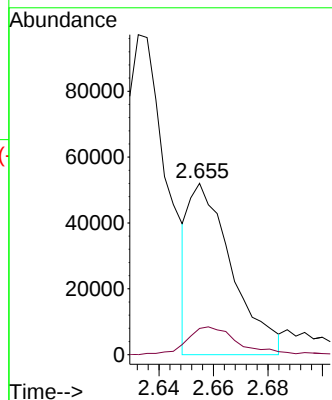
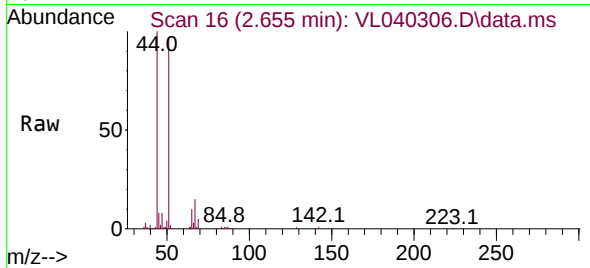
#3
Chlorodifluoromethane
Concen: 0.478 ppbv m
RT: 2.655 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 5720
Ion Ratio Lower Upper
51 100
67 19.8 16.0 24.0

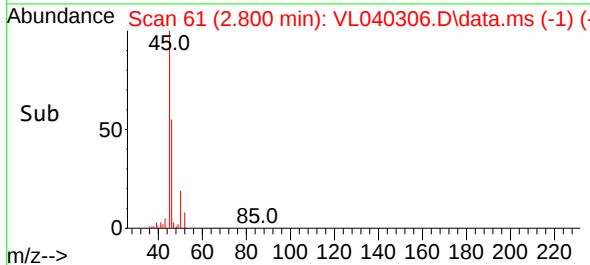
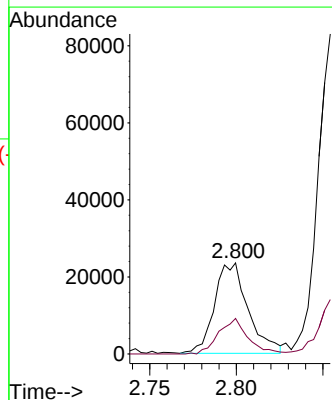
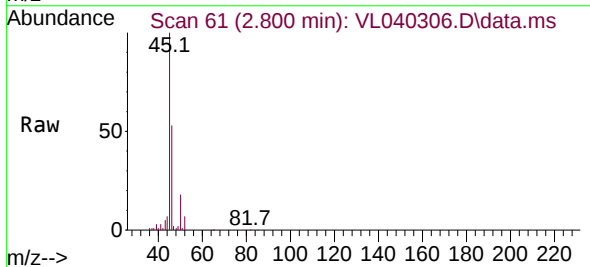
Manual Integrations
APPROVED

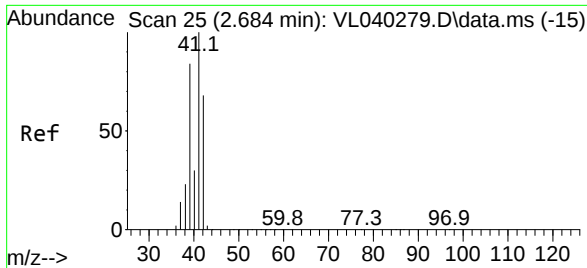
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#4
Chloromethane
Concen: 0.429 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

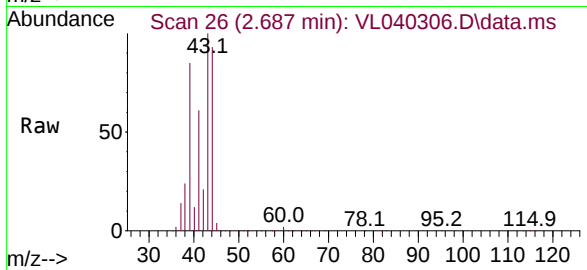
Tgt Ion: 50 Resp: 31694
Ion Ratio Lower Upper
50 100
52 39.2 25.9 38.9#





#9
Propene
Concen: 33.024 ppbv m
RT: 2.687 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

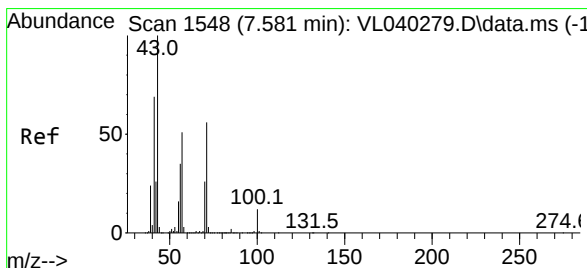
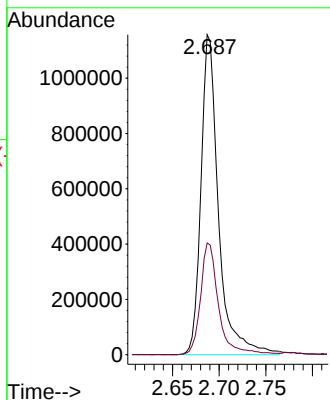
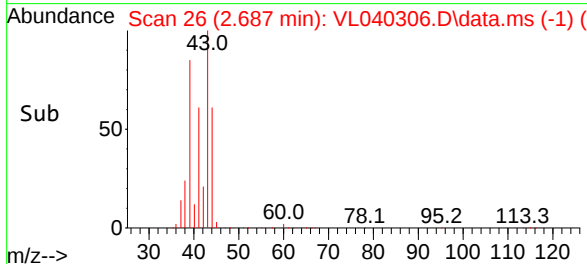
Instrument :
MSVOA_L
ClientSampleId :
IA1



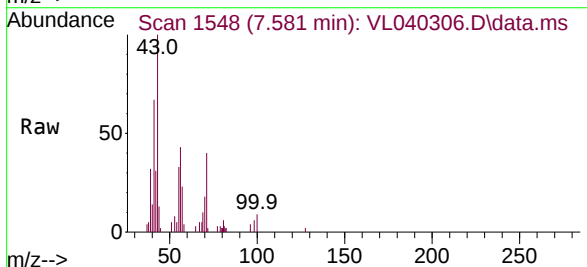
Tgt Ion: 41 Resp: 1514769
Ion Ratio Lower Upper
41 100
42 178.7 59.0 88.4

Manual Integrations
APPROVED

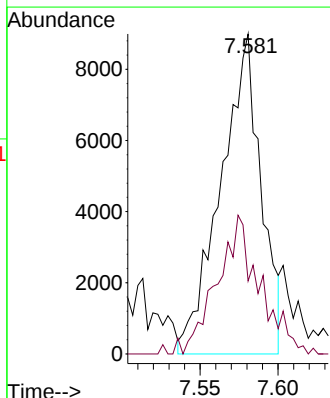
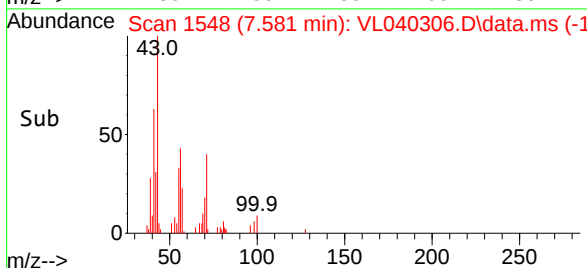
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023

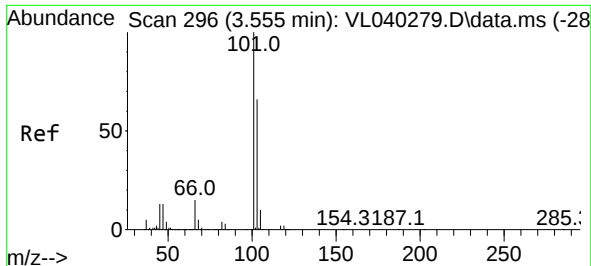


#10
Heptane
Concen: 0.147 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. -0.000 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33



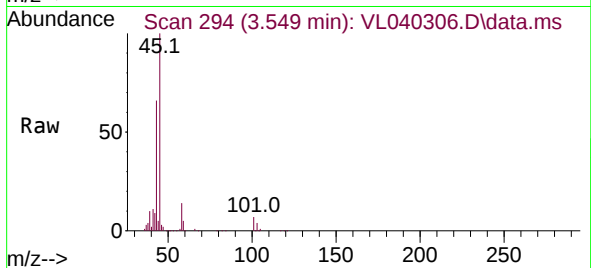
Tgt Ion: 43 Resp: 16173
Ion Ratio Lower Upper
43 100
57 45.8 41.7 62.5





#11
Trichlorofluoromethane
Concen: 0.231 ppbv
RT: 3.549 min Scan# 296
Delta R.T. -0.006 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

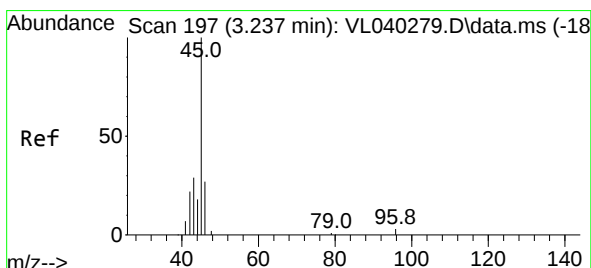
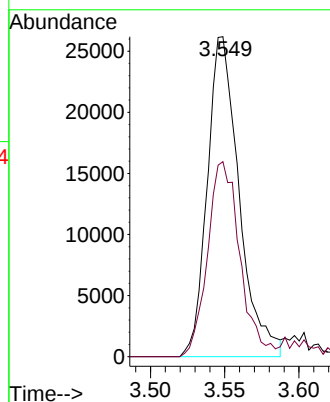
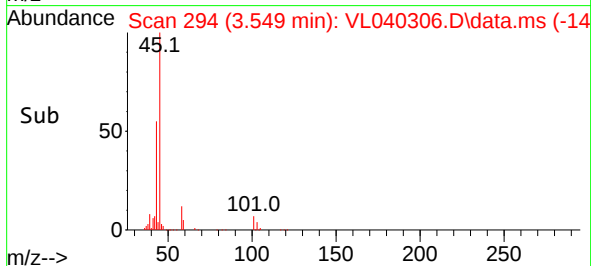
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 3908
Ion Ratio Lower Upper
101 100
103 60.9 53.1 79.7

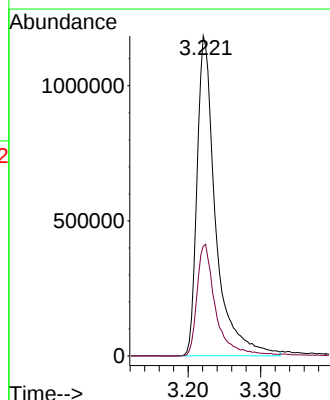
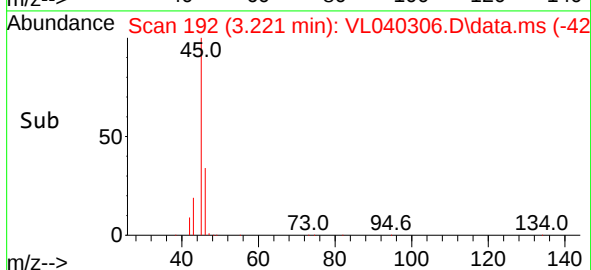
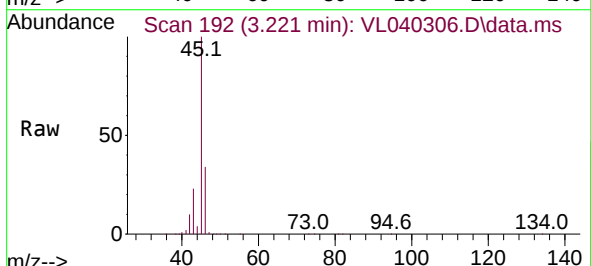
Manual Integrations
APPROVED

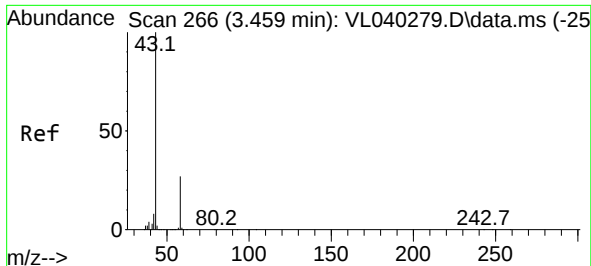
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#13
Ethanol
Concen: 626.962 ppbv
RT: 3.221 min Scan# 192
Delta R.T. -0.016 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

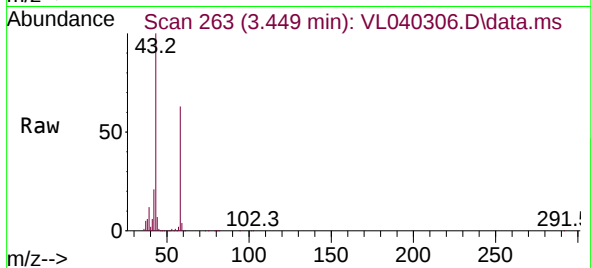
Tgt Ion: 45 Resp: 2109168
Ion Ratio Lower Upper
45 100
46 35.9 15.0 60.2





#15
Acetone
Concen: 151.747 ppbv
RT: 3.449 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

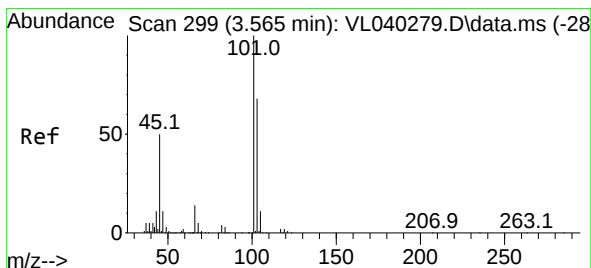
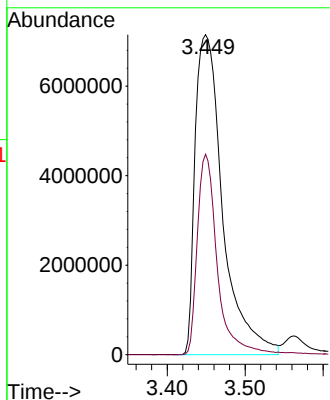
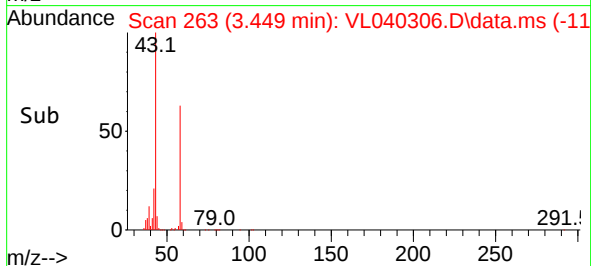
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp:1759033
Ion Ratio Lower Upper
43 100
58 46.1 21.8 32.8

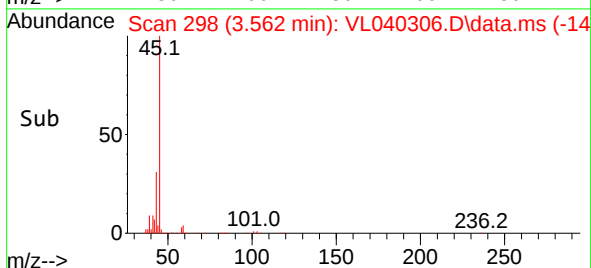
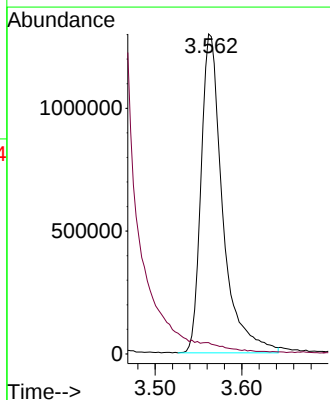
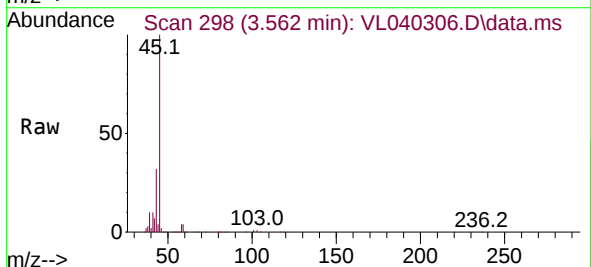
Manual Integrations
APPROVED

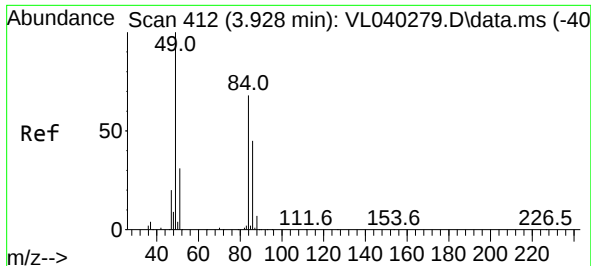
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#19
Isopropyl Alcohol
Concen: 40.552 ppbv
RT: 3.562 min Scan# 298
Delta R.T. -0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

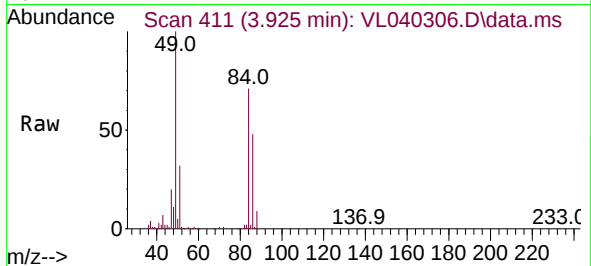
Tgt Ion: 45 Resp: 2251781
Ion Ratio Lower Upper
45 100
58 0.0 2.7 4.1





#20
Methylene Chloride
Concen: 3.509 ppbv
RT: 3.925 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

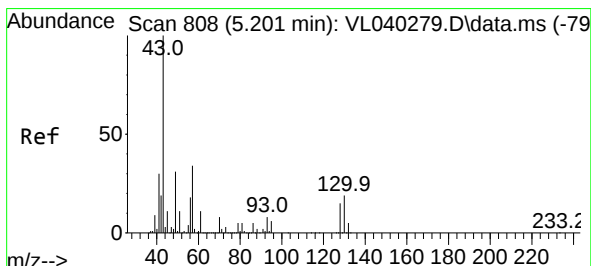
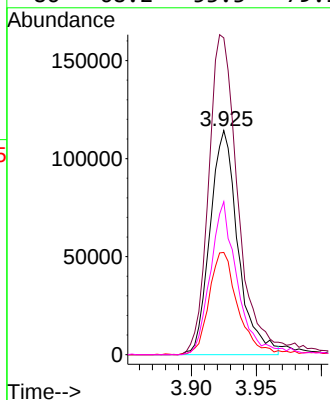
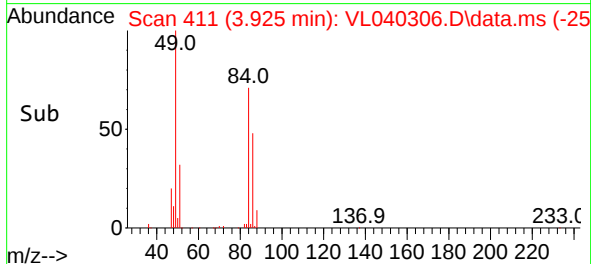
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 171130
Ion Ratio Lower Upper
84 100
49 141.3 117.5 176.3
51 45.6 36.9 55.3
86 68.2 53.3 79.9

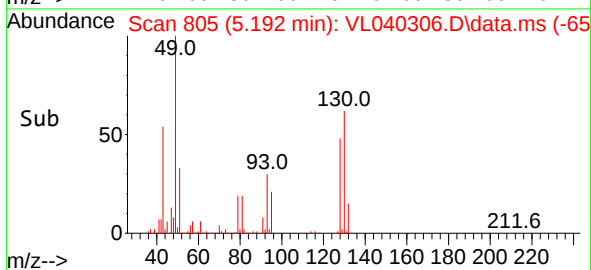
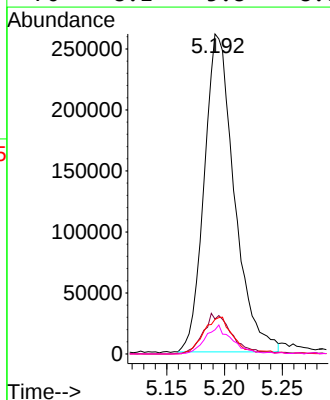
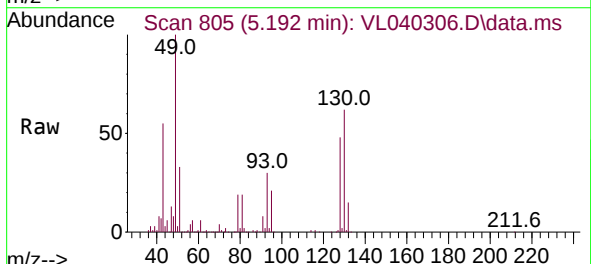
Manual Integrations
APPROVED

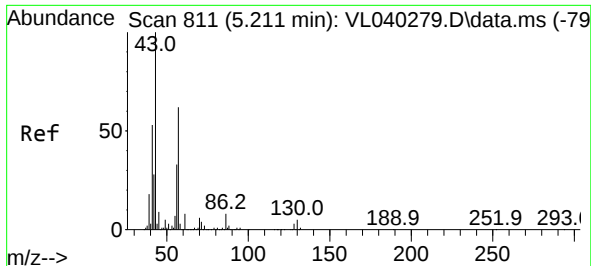
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#25
Ethyl Acetate
Concen: 2.174 ppbv
RT: 5.192 min Scan# 805
Delta R.T. -0.009 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

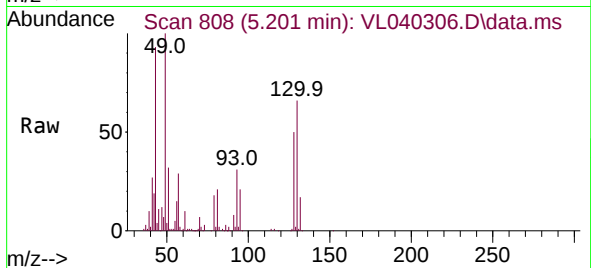
Tgt Ion: 43 Resp: 471829
Ion Ratio Lower Upper
43 100
45 12.8 8.6 12.8
61 11.8 8.4 12.6
70 8.1 5.8 8.6





#26
Hexane
Concen: 1.209 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.010 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

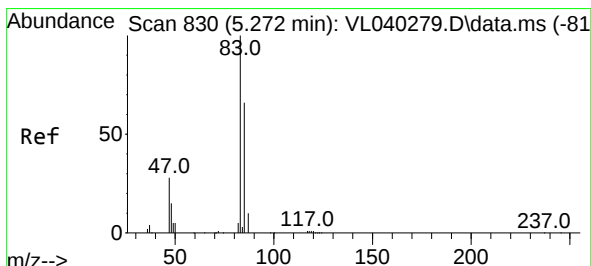
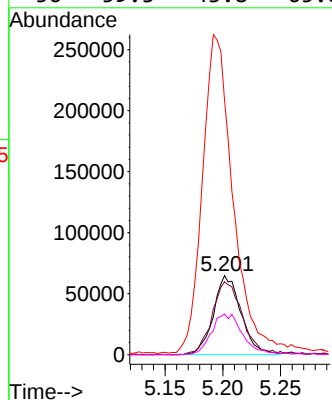
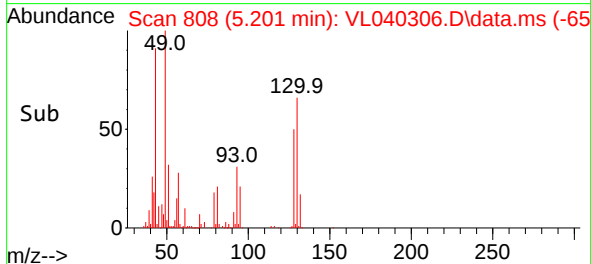
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 107684
Ion Ratio Lower Upper
57 100
41 103.7 73.5 110.3
43 456.8 196.3 294.5
56 59.3 43.8 65.8

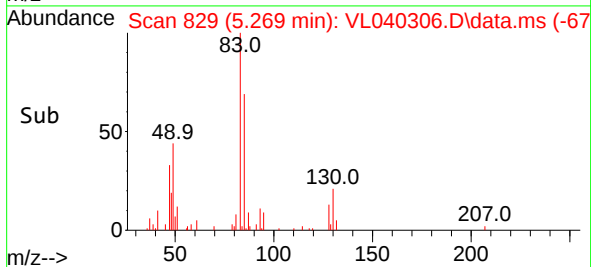
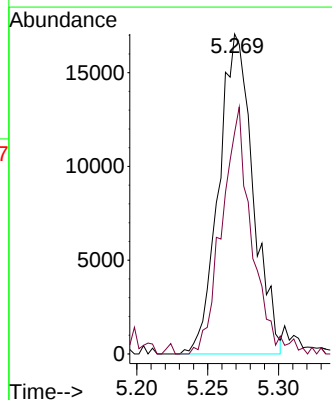
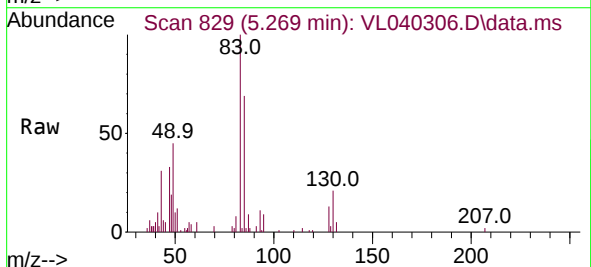
Manual Integrations
APPROVED

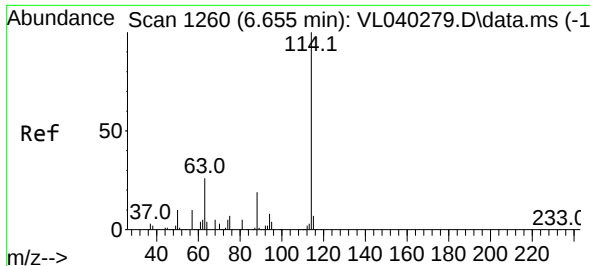
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#29
Chloroform
Concen: 0.183 ppbv
RT: 5.269 min Scan# 829
Delta R.T. -0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

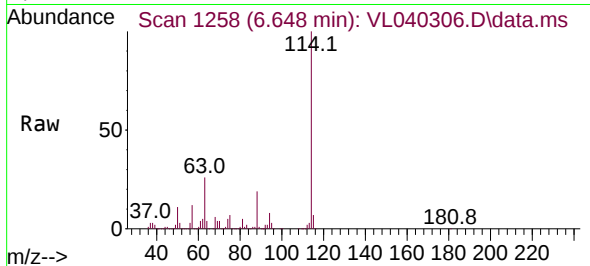
Tgt Ion: 83 Resp: 28840
Ion Ratio Lower Upper
83 100
85 69.2 52.8 79.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 114
Delta R.T. -0.007 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

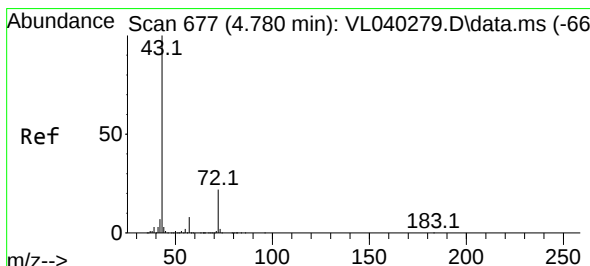
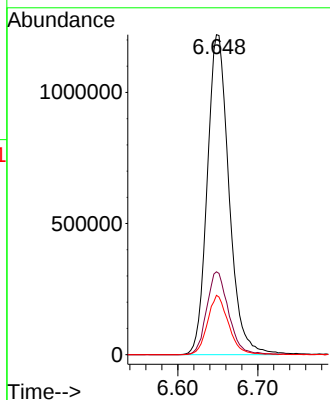
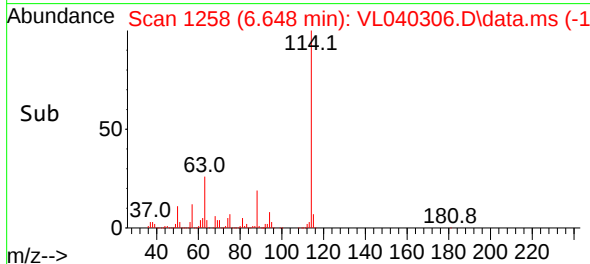
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:114 Resp: 230334
Ion Ratio Lower Upper
114 100
63 26.3 21.2 31.8
88 18.1 14.5 21.7

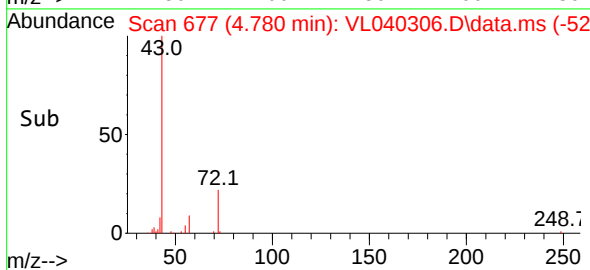
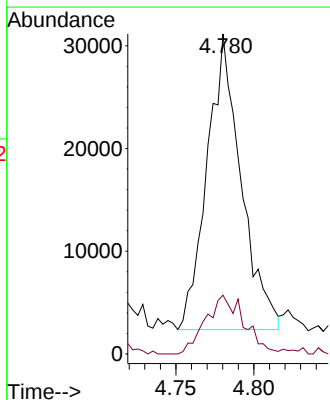
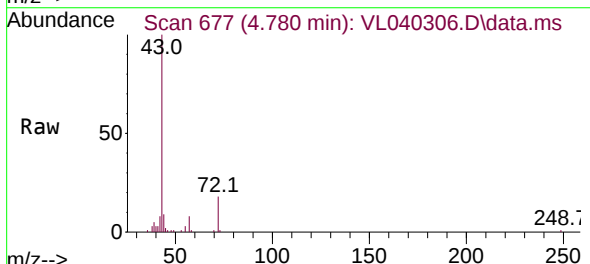
Manual Integrations
APPROVED

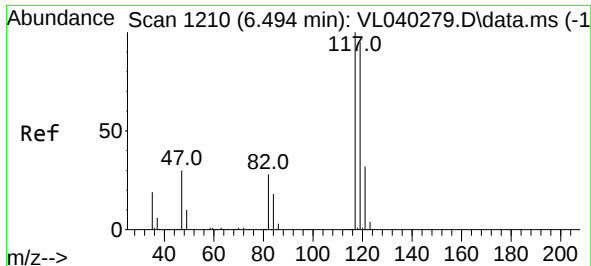
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#34
2-Butanone
Concen: 0.384 ppbv
RT: 4.780 min Scan# 677
Delta R.T. 0.000 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

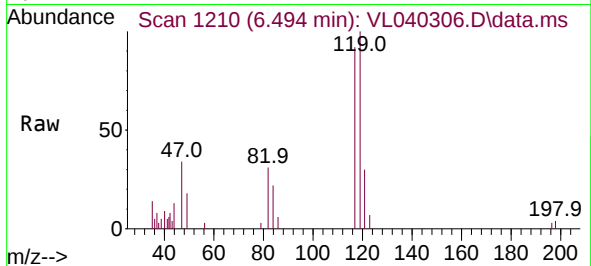
Tgt Ion: 43 Resp: 43644
Ion Ratio Lower Upper
43 100
72 23.8 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 6.494 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

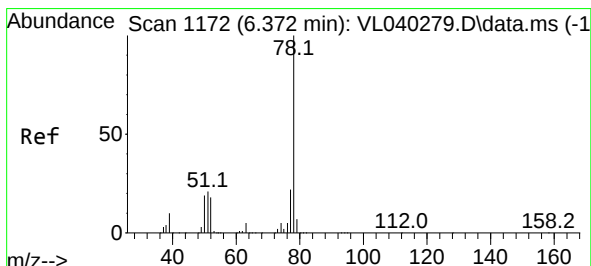
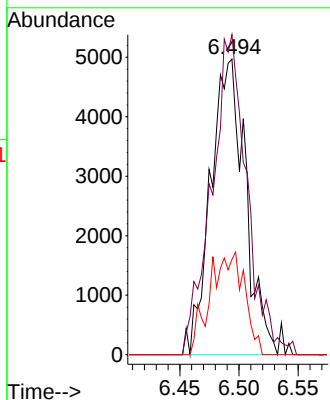
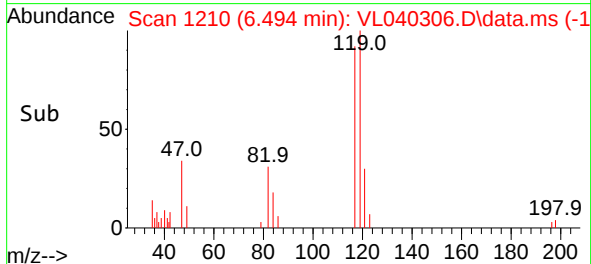
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 1019
Ion Ratio Lower Upper
117 100
119 108.2 76.4 114.6
121 32.2 25.6 38.4

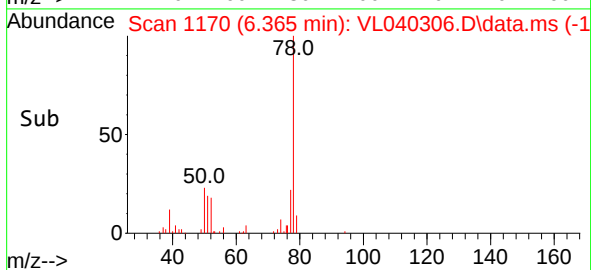
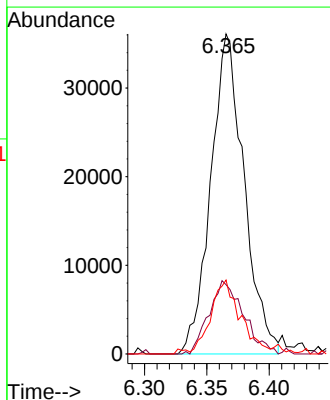
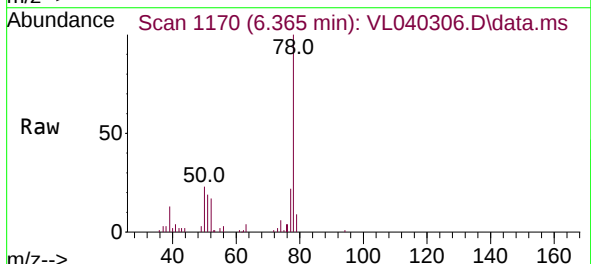
Manual Integrations
APPROVED

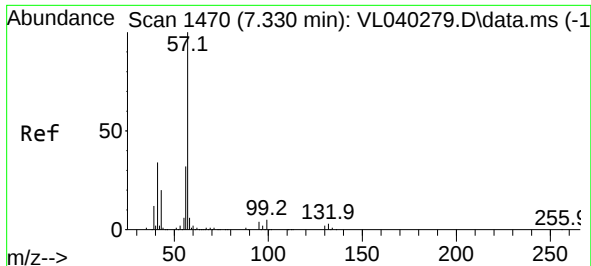
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#36
Benzene
Concen: 0.382 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. -0.007 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

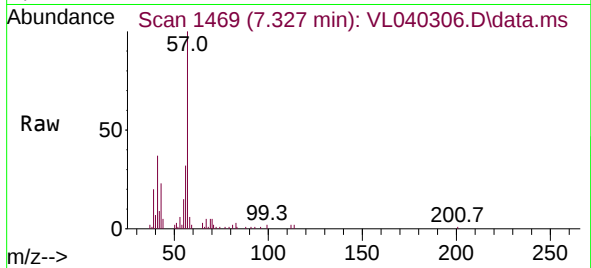
Tgt Ion: 78 Resp: 67035
Ion Ratio Lower Upper
78 100
77 21.7 17.8 26.8
50 21.5 15.4 23.2





#44
2,2,4-Trimethylpentane
Concen: 0.159 ppbv m
RT: 7.327 min Scan# 1469
Delta R.T. -0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

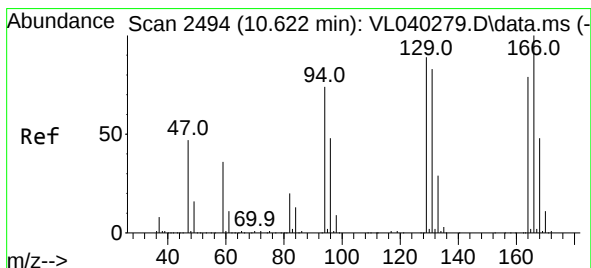
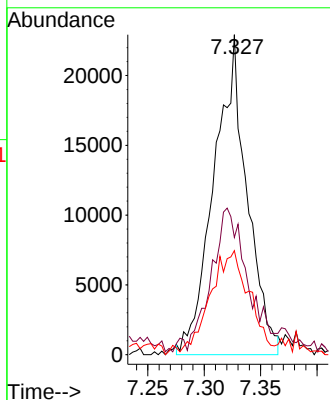
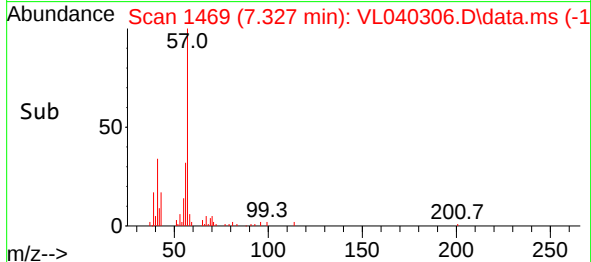
Instrument :
MSVOA_L
ClientSampleId :
IA1



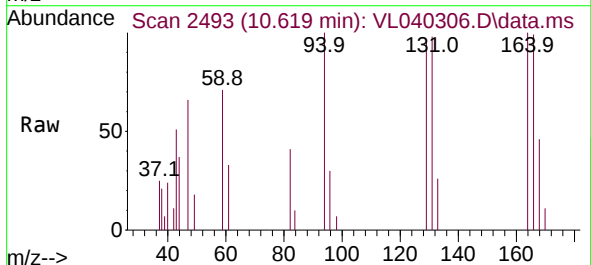
Tgt Ion: 57 Resp: 46680
Ion Ratio Lower Upper
57 100
41 56.8 26.8 40.2
56 0.0 25.0 37.6

Manual Integrations
APPROVED

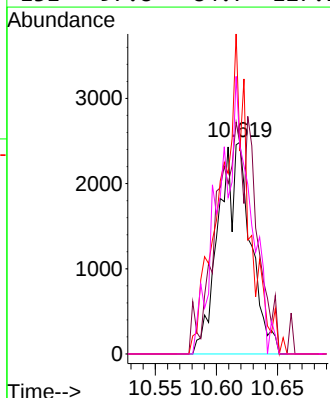
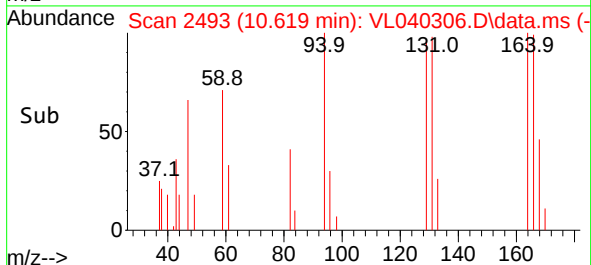
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023

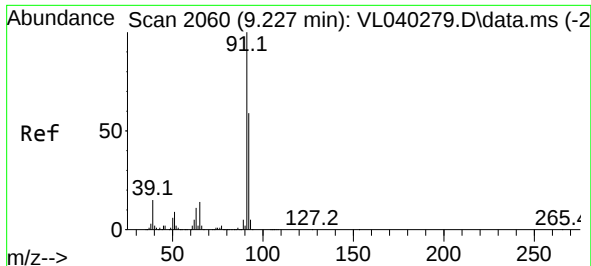


#52
Tetrachloroethene
Concen: 0.085 ppbv m
RT: 10.619 min Scan# 2493
Delta R.T. -0.003 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33



Tgt Ion:164 Resp: 4511
Ion Ratio Lower Upper
164 100
166 98.9 101.8 152.6
129 95.7 90.2 135.2
131 97.8 84.7 127.1





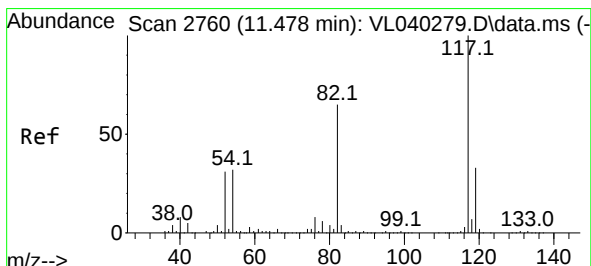
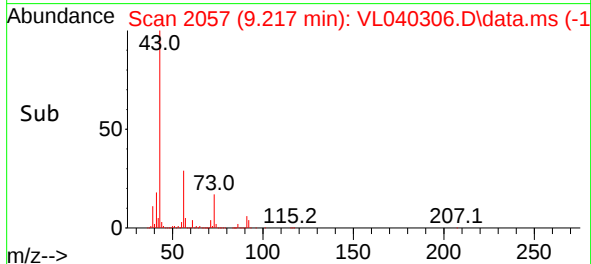
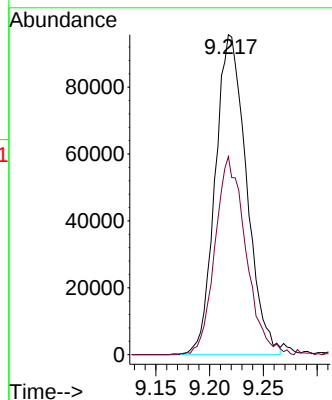
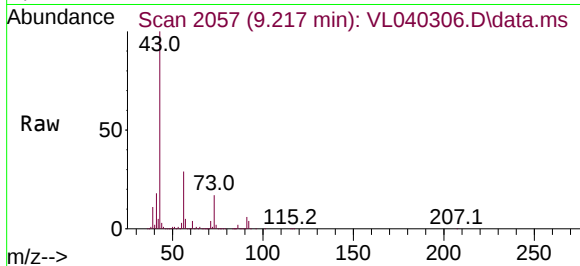
#53
Toluene
Concen: 1.050 ppbv
RT: 9.217 min Scan# 2060
Delta R.T. -0.010 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 19321
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0

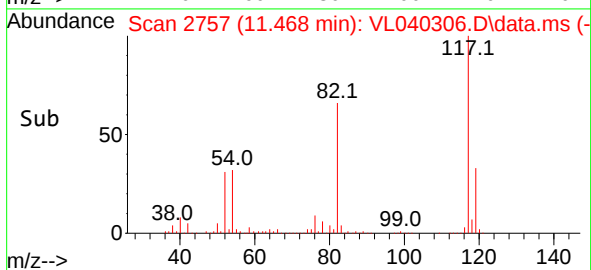
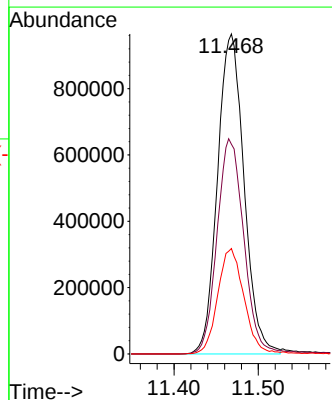
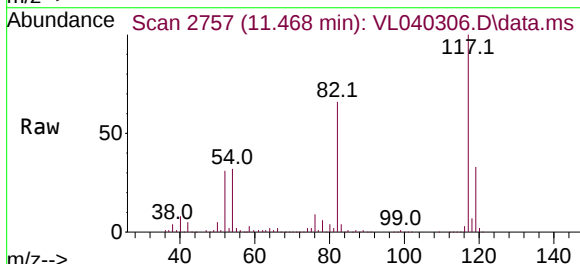
Manual Integrations
APPROVED

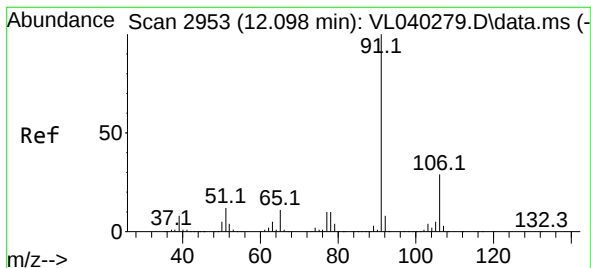
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.010 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

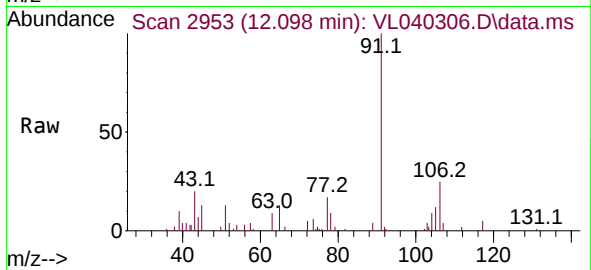
Tgt Ion:117 Resp: 2108031
Ion Ratio Lower Upper
117 100
82 68.6 51.4 77.2
119 32.8 24.0 36.0





#58
Ethyl Benzene
Concen: 0.115 ppbv m
RT: 12.098 min Scan# 2953
Delta R.T. 0.000 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

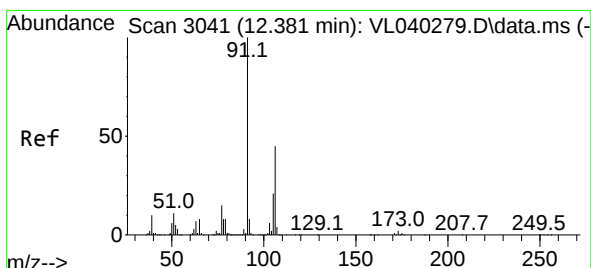
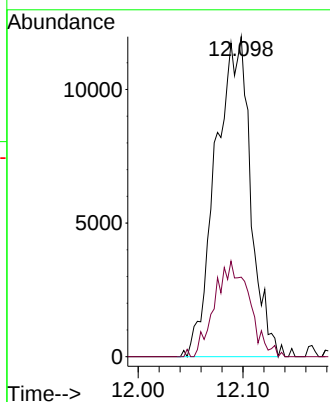
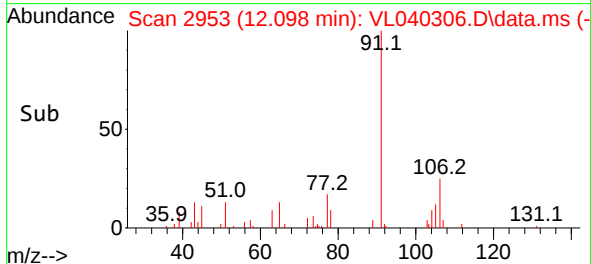
Instrument :
MSVOA_L
ClientSampleId :
IA1



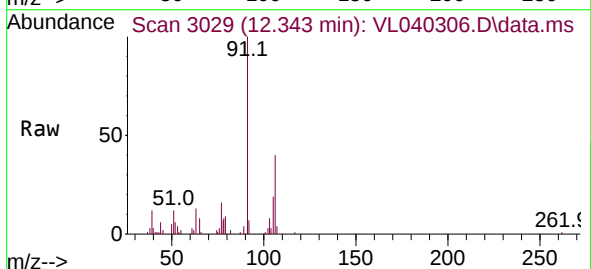
Tgt Ion: 91 Resp: 27680
Ion Ratio Lower Upper
91 100
106 24.8 23.4 35.2

Manual Integrations
APPROVED

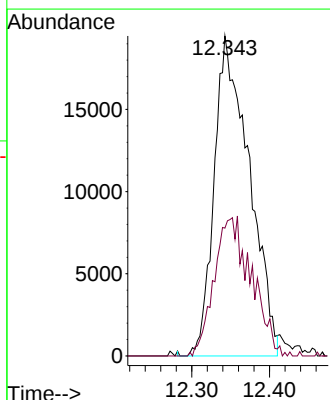
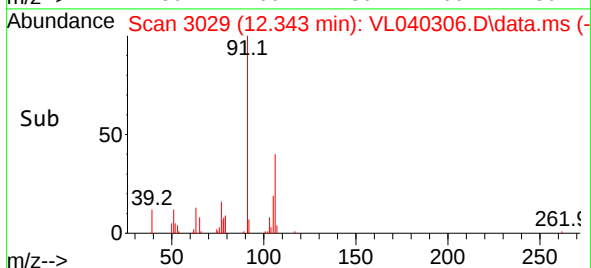
Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023

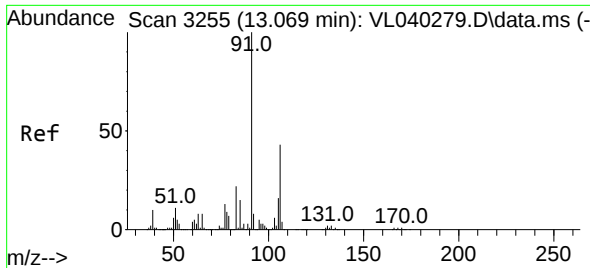


#59
m/p-Xylene
Concen: 0.277 ppbv m
RT: 12.343 min Scan# 3029
Delta R.T. -0.038 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33



Tgt Ion: 91 Resp: 60971
Ion Ratio Lower Upper
91 100
106 46.4 34.0 51.0





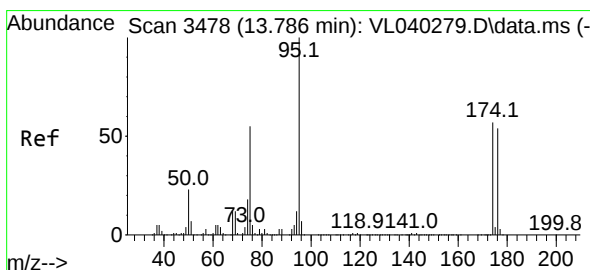
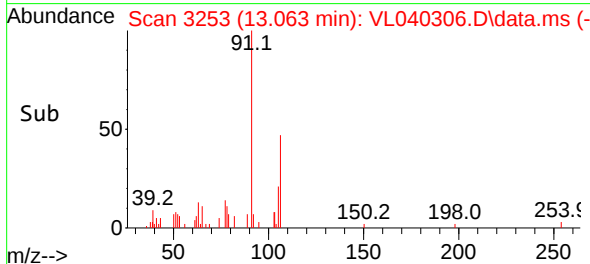
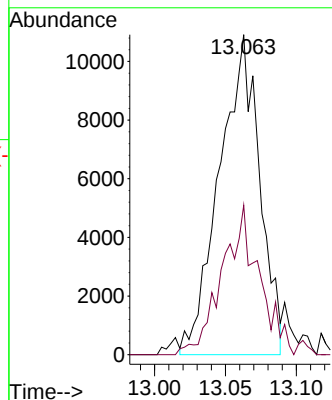
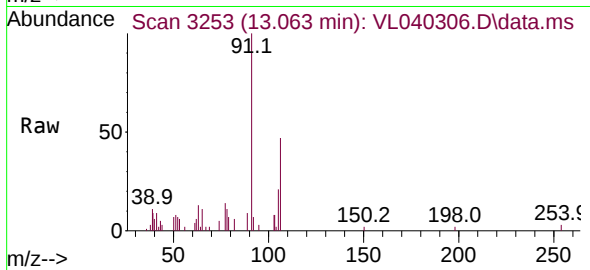
#60
o-Xylene
Concen: 0.102 ppbv
RT: 13.063 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 2152
Ion Ratio Lower Upper
91 100
106 44.1 21.7 65.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/05/2023
Supervised By :Mahesh Dadoda 04/05/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.990 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.006 min
Lab File: VL040306.D
Acq: 4 Apr 2023 15:33

Tgt Ion: 95 Resp: 1763571
Ion Ratio Lower Upper
95 100
174 57.6 47.0 70.6
175 4.2 3.4 5.2

