

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040523\
 Data File : VL040312.D
 Acq On : 5 Apr 2023 11:39
 Operator : SY/MD
 Sample : 02168-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023
 Supervised By :Mahesh Dadoda 04/06/2023

Quant Time: Apr 06 07:50:12 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)

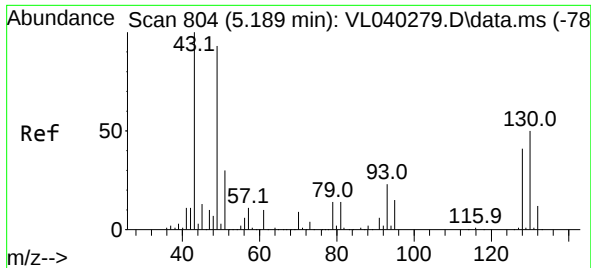
Internal Standards						
1) Bromochloromethane	5.166	49	989613	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.629	114	2437191	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2128421	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1735533	9.737	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	203225	1.047	ppbv	96
3) Chlorodifluoromethane	2.681	51	48589	0.390	ppbv	97
4) Chloromethane	2.784	50	52640	0.685	ppbv	98
9) Propene	2.674	41	96881m	2.032	ppbv	
11) Trichlorofluoromethane	3.533	101	49867	0.283	ppbv	87
13) Ethanol	3.205	45	1126763	322.260	ppbv	99
15) Acetone	3.436	43	1433242	11.896	ppbv	98
19) Isopropyl Alcohol	3.549	45	401551	6.958	ppbv	100
20) Methylene Chloride	3.906	84	728550	14.374	ppbv	96
26) Hexane	5.185	57	447251	4.831	ppbv #	39
29) Chloroform	5.250	83	89756	0.549	ppbv	97
34) 2-Butanone	4.761	43	76239	0.634	ppbv	97
35) Carbon Tetrachloride	6.468	117	13266m	0.087	ppbv	
36) Benzene	6.346	78	65060	0.350	ppbv	96
41) Tetrahydrofuran	5.552	42	11223m	0.162	ppbv	
52) Tetrachloroethene	10.590	164	5369m	0.096	ppbv	
53) Toluene	9.201	91	124740	0.641	ppbv	99
58) Ethyl Benzene	12.069	91	21907m	0.090	ppbv	
59) m/p-Xylene	12.323	91	59410m	0.268	ppbv	
76) 1,4-Dichlorobenzene	16.455	146	58538m	0.473	ppbv	

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

Manual Integrations

Quant Time: Apr 06 07:50:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration





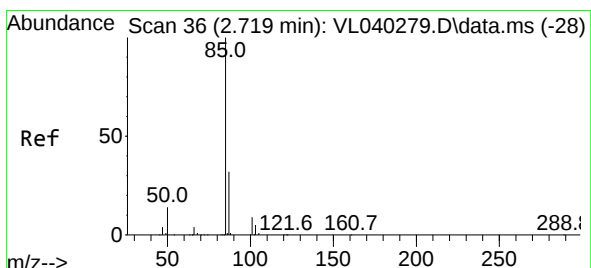
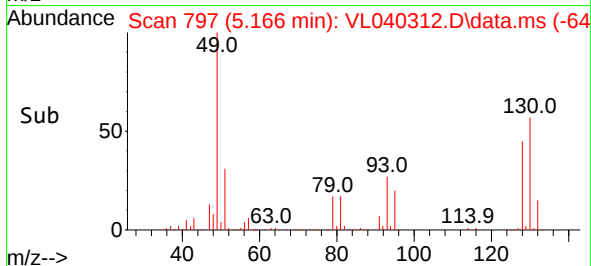
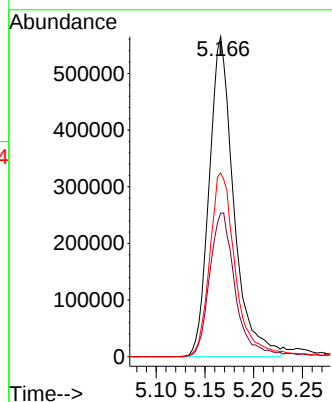
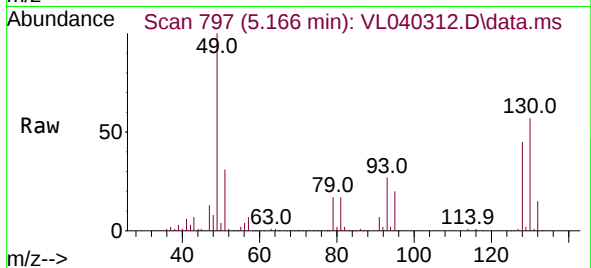
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. -0.023 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 98961
Ion Ratio Lower Upper
49 100
128 47.5 22.4 67.3
130 61.2 28.7 86.1

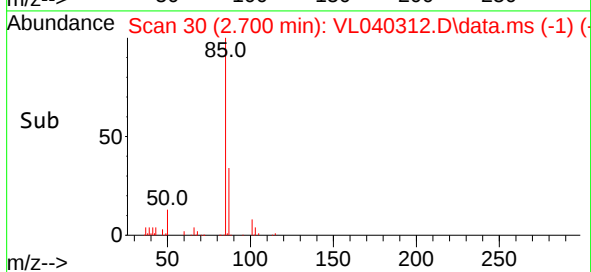
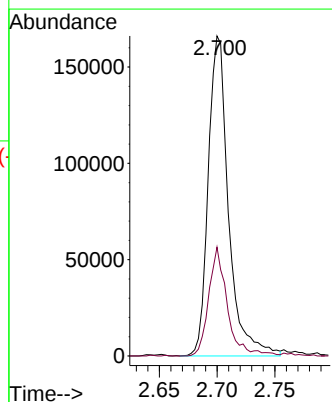
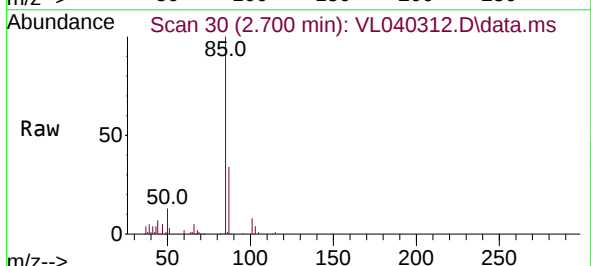
Manual Integrations
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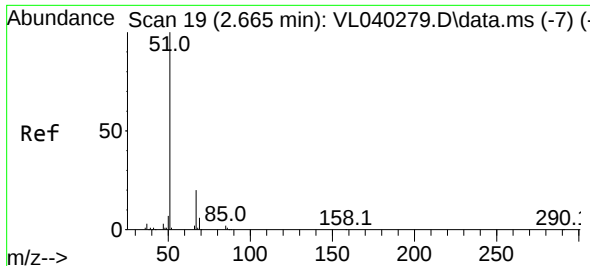
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#2
Dichlorodifluoromethane
Concen: 1.047 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.019 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

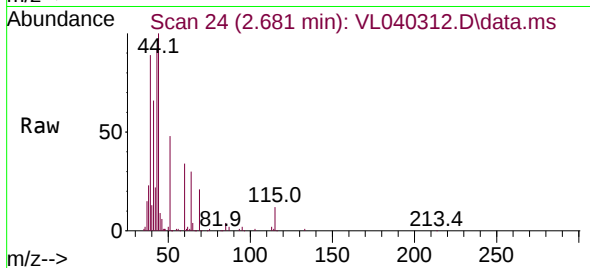
Tgt Ion: 85 Resp: 203225
Ion Ratio Lower Upper
85 100
87 34.0 25.5 38.3





#3
Chlorodifluoromethane
Concen: 0.390 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.016 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

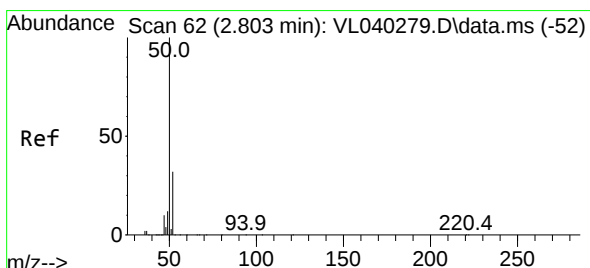
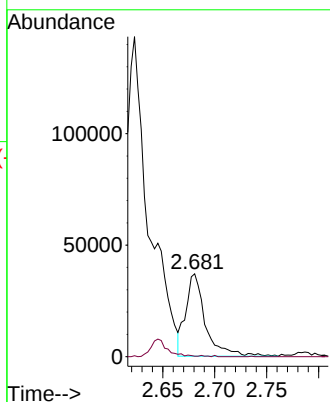
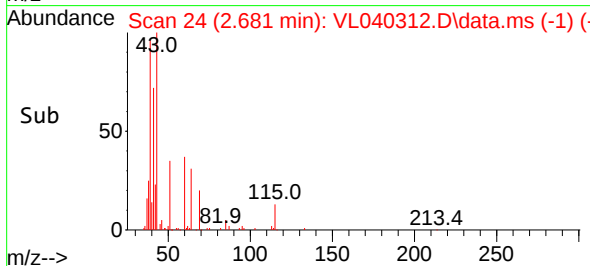
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 51 Resp: 48589
Ion Ratio Lower Upper
51 100
67 18.5 16.0 24.0

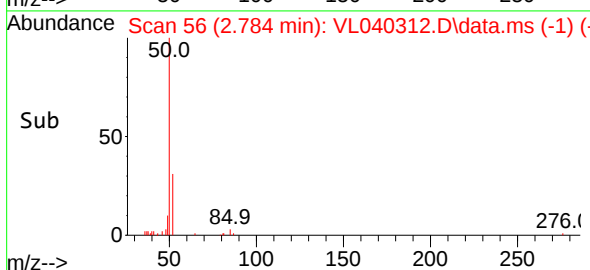
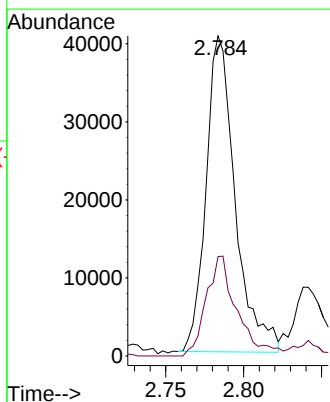
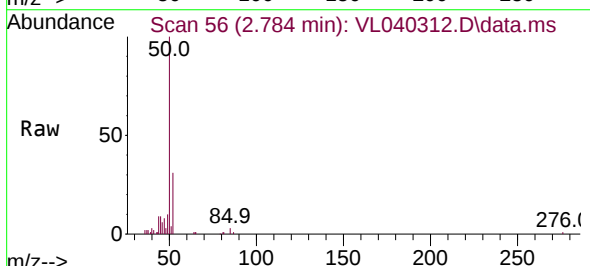
Manual Integrations
APPROVED

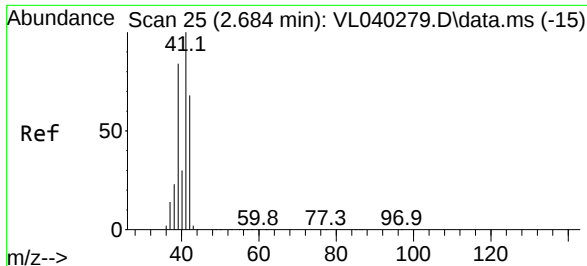
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#4
Chloromethane
Concen: 0.685 ppbv
RT: 2.784 min Scan# 56
Delta R.T. -0.019 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Tgt Ion: 50 Resp: 52640
Ion Ratio Lower Upper
50 100
52 31.5 25.9 38.9





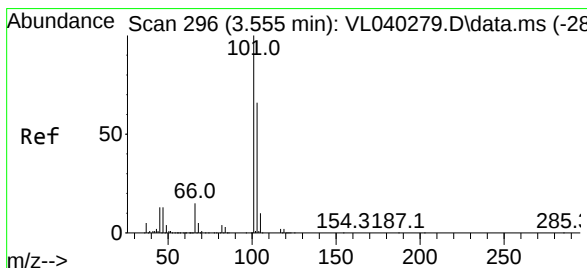
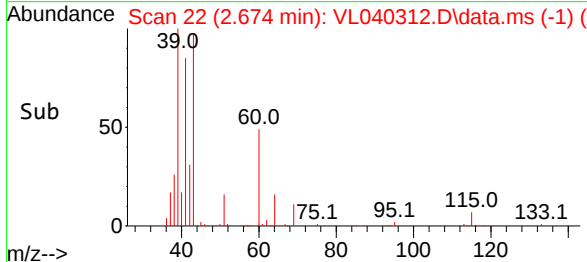
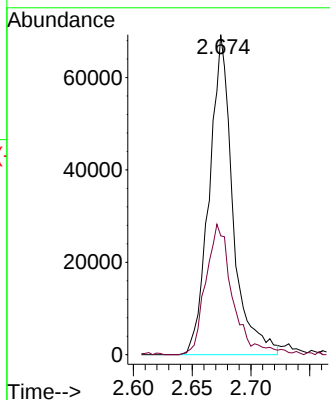
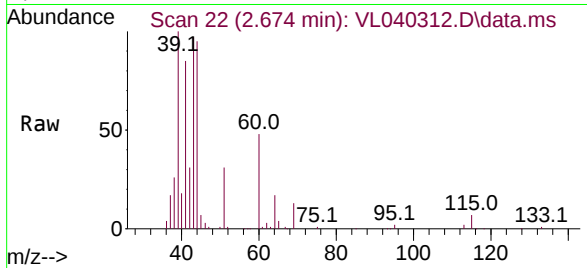
#9
 Propene
 Concen: 2.032 ppbv m
 RT: 2.674 min Scan# 21
 Delta R.T. -0.010 min
 Lab File: VL040312.D
 Acq: 5 Apr 2023 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion: 41 Resp: 9688
 Ion Ratio Lower Upper
 41 100
 42 275.9 59.0 88.4

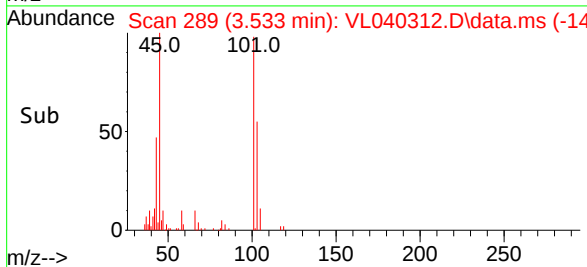
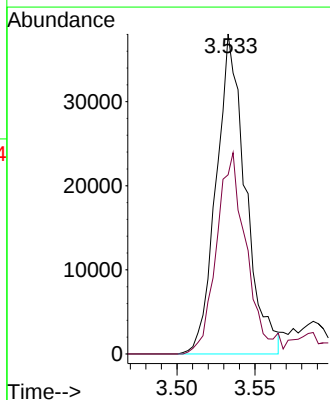
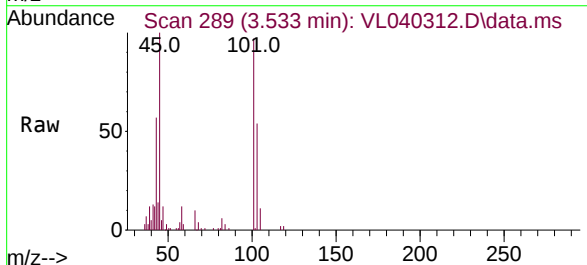
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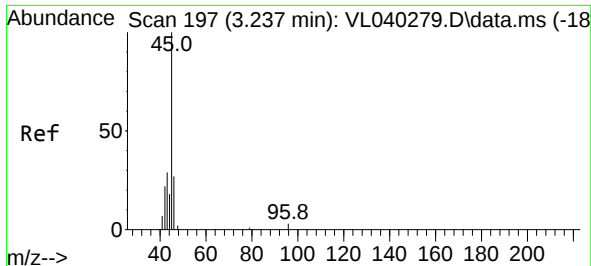
Reviewed By :Semsettin Yesilyurt 04/06/2023
 Supervised By :Mahesh Dadoda 04/06/2023



#11
 Trichlorofluoromethane
 Concen: 0.283 ppbv
 RT: 3.533 min Scan# 289
 Delta R.T. -0.022 min
 Lab File: VL040312.D
 Acq: 5 Apr 2023 11:39

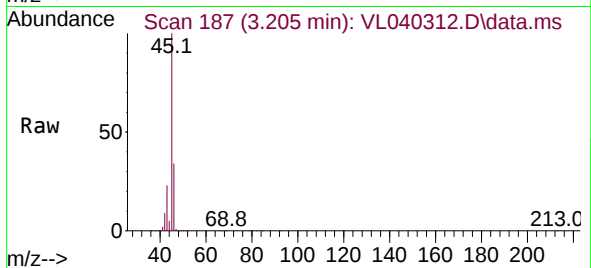
Tgt Ion:101 Resp: 49867
 Ion Ratio Lower Upper
 101 100
 103 56.0 53.1 79.7





#13
Ethanol
Concen: 322.260 ppbv
RT: 3.205 min Scan# 11
Delta R.T. -0.032 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

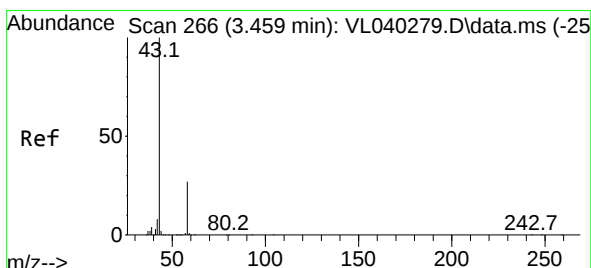
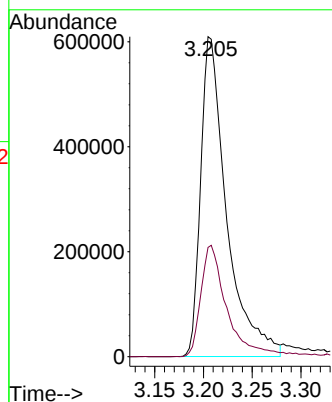
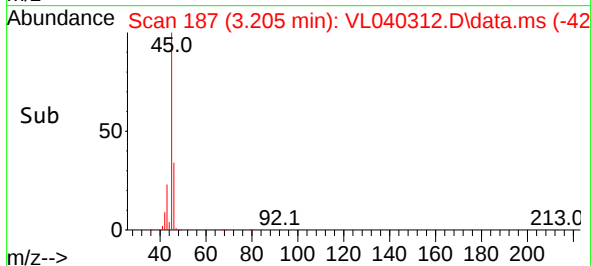
Instrument :
MSVOA_L
ClientSampleId :
IA2



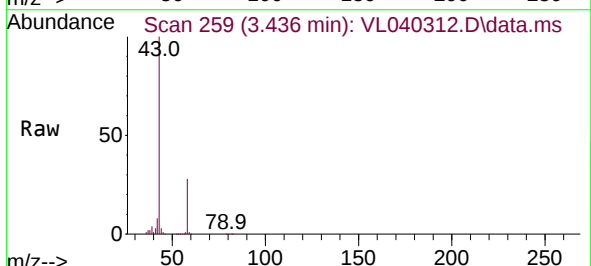
Tgt Ion: 45 Resp: 112676
Ion Ratio Lower Upper
45 100
46 37.1 15.0 60.2

Manual Integrations
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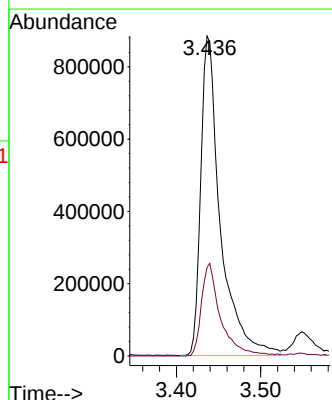
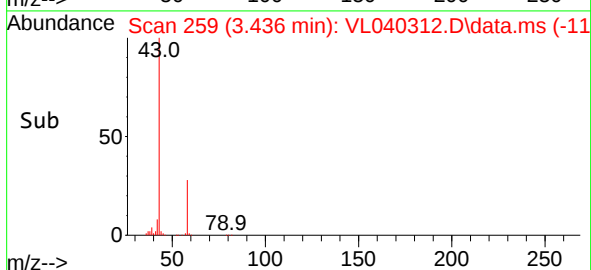
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023

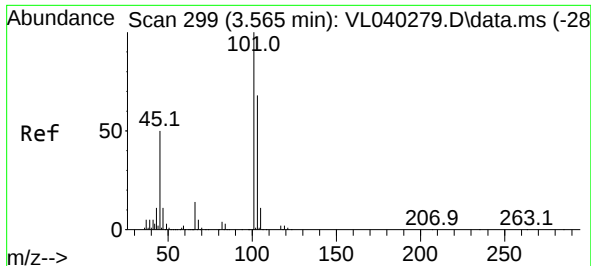


#15
Acetone
Concen: 11.896 ppbv
RT: 3.436 min Scan# 259
Delta R.T. -0.023 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39



Tgt Ion: 43 Resp: 1433242
Ion Ratio Lower Upper
43 100
58 28.3 21.8 32.8





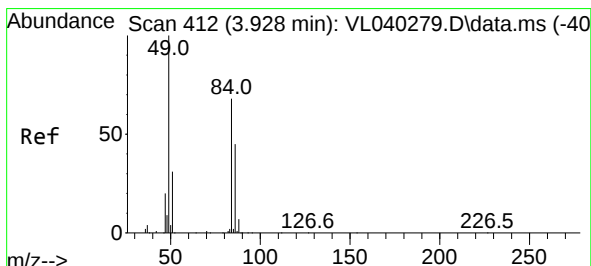
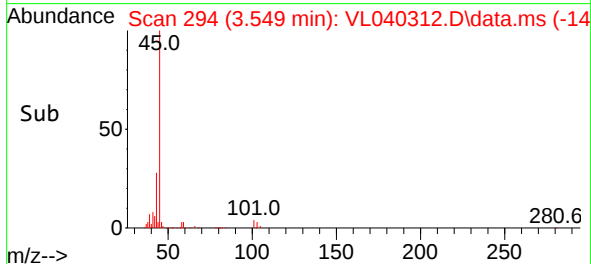
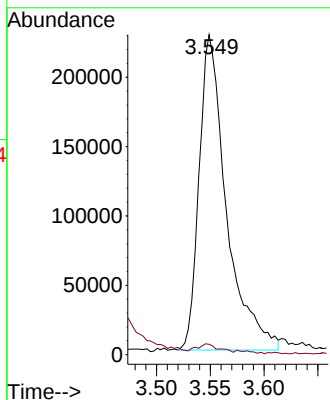
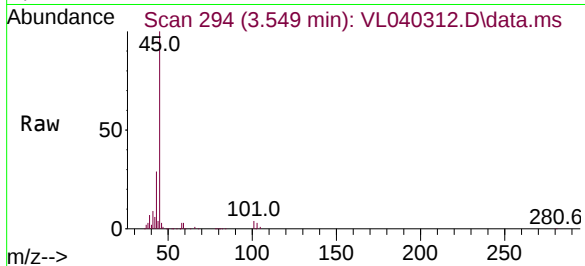
#19
Isopropyl Alcohol
Concen: 6.958 ppbv
RT: 3.549 min Scan# 299
Delta R.T. -0.016 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 40155
Ion Ratio Lower Upper
45 100
58 3.5 2.7 4.1

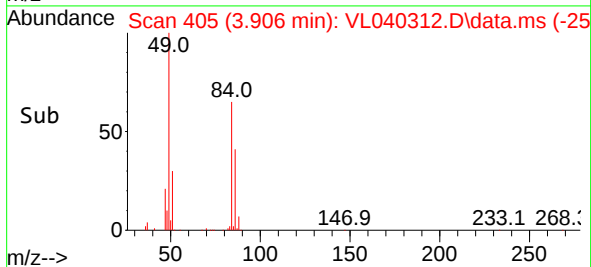
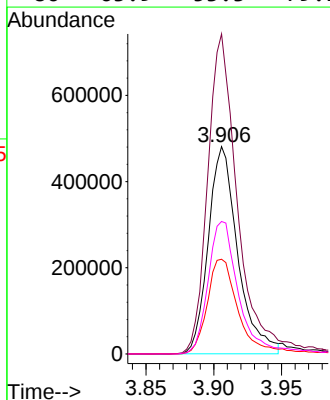
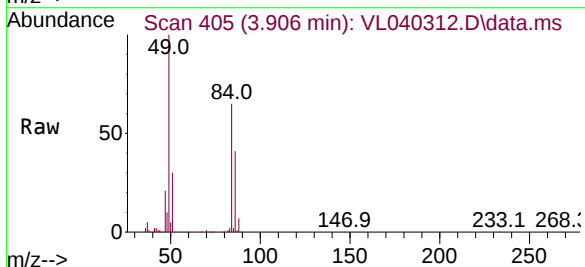
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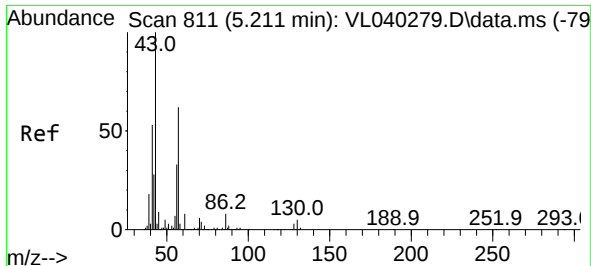
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#20
Methylene Chloride
Concen: 14.374 ppbv
RT: 3.906 min Scan# 405
Delta R.T. -0.022 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

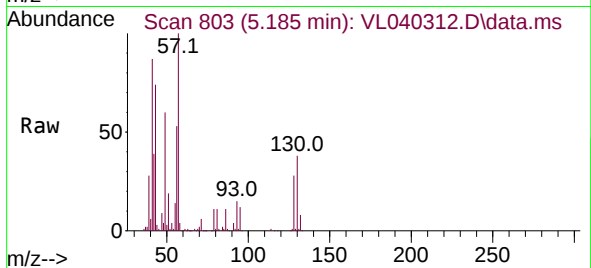
Tgt Ion: 84 Resp: 728550
Ion Ratio Lower Upper
84 100
49 154.2 117.5 176.3
51 45.7 36.9 55.3
86 63.9 53.3 79.9





#26
Hexane
Concen: 4.831 ppbv
RT: 5.185 min Scan# 803
Delta R.T. -0.026 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

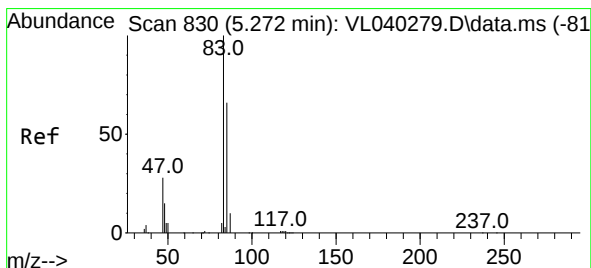
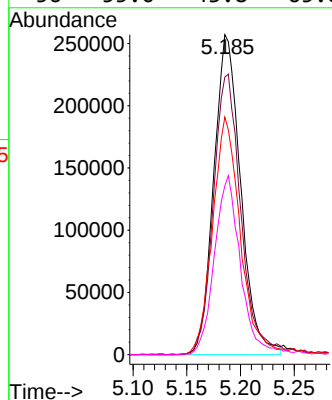
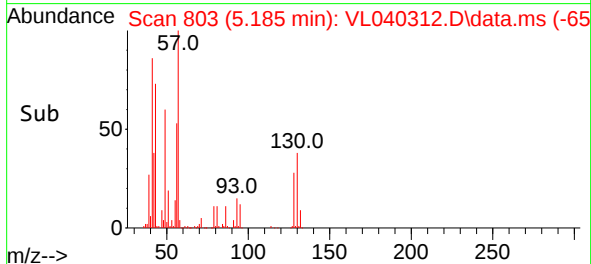
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 44725
Ion Ratio Lower Upper
57 100
41 91.4 73.5 110.3
43 78.1 196.3 294.5
56 55.0 43.8 65.8

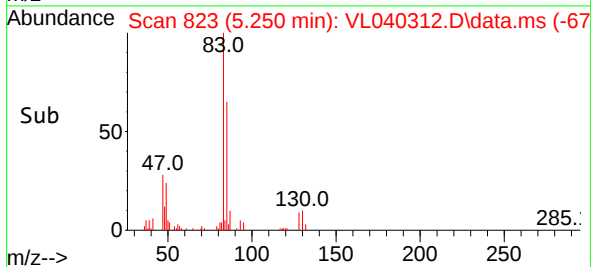
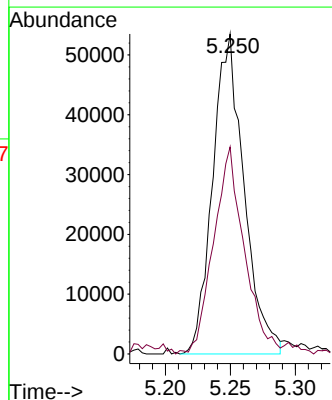
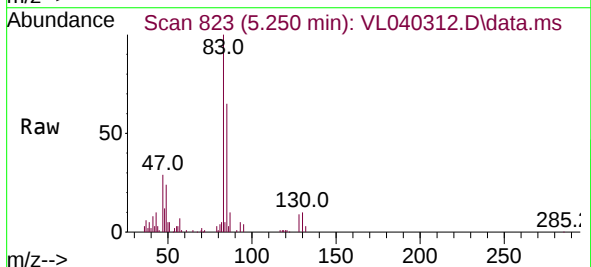
Manual Integrations
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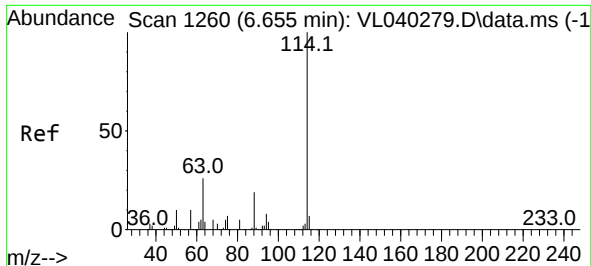
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#29
Chloroform
Concen: 0.549 ppbv
RT: 5.250 min Scan# 823
Delta R.T. -0.022 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Tgt Ion: 83 Resp: 89756
Ion Ratio Lower Upper
83 100
85 63.7 52.8 79.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 114

Delta R.T. -0.026 min

Lab File: VL040312.D

Acq: 5 Apr 2023 11:39

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 243719

Ion Ratio Lower Upper

114 100

63 26.1 21.2 31.8

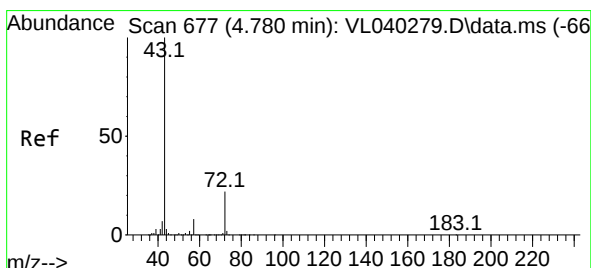
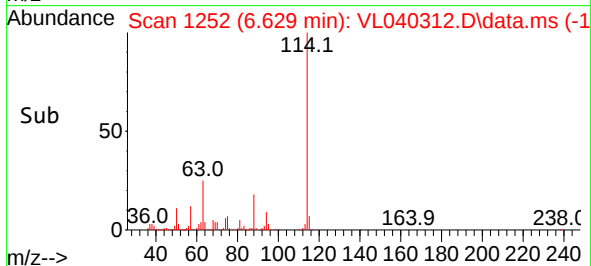
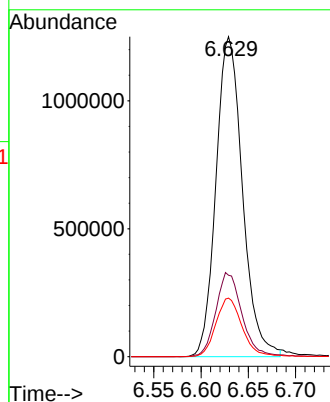
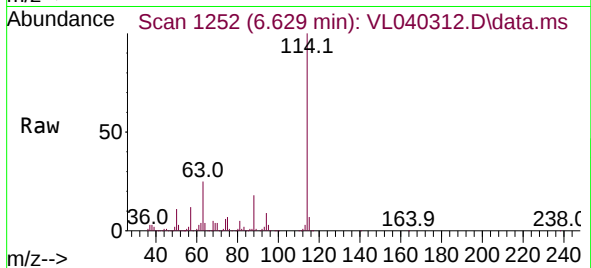
88 18.4 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023

Supervised By :Mahesh Dadoda 04/06/2023



#34

2-Butanone

Concen: 0.634 ppbv

RT: 4.761 min Scan# 671

Delta R.T. -0.019 min

Lab File: VL040312.D

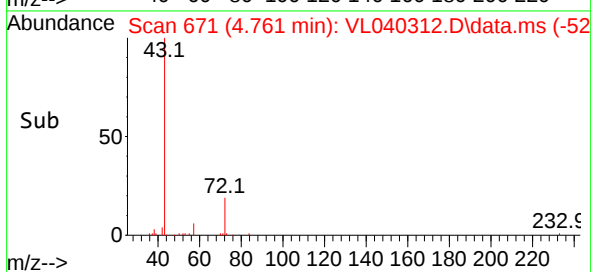
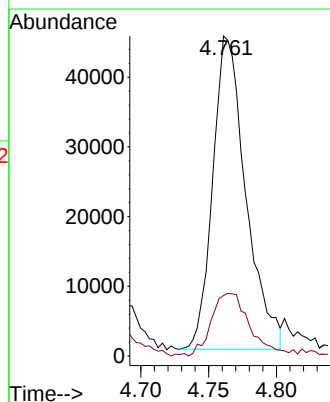
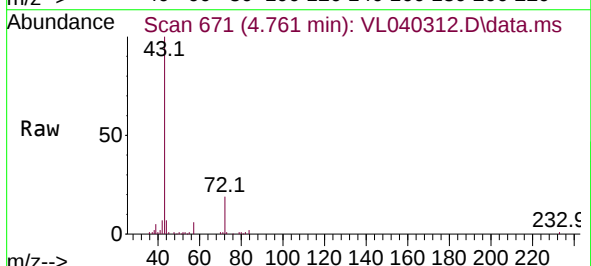
Acq: 5 Apr 2023 11:39

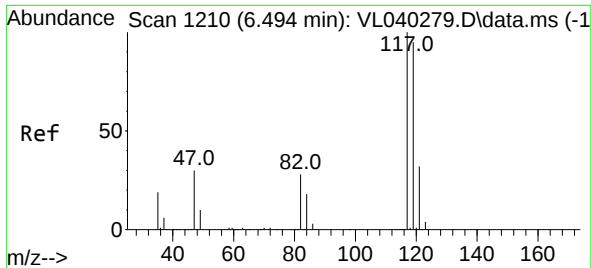
Tgt Ion: 43 Resp: 76239

Ion Ratio Lower Upper

43 100

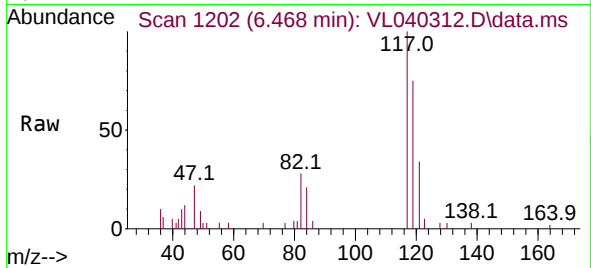
72 24.3 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.087 ppbv m
RT: 6.468 min Scan# 1164
Delta R.T. -0.026 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

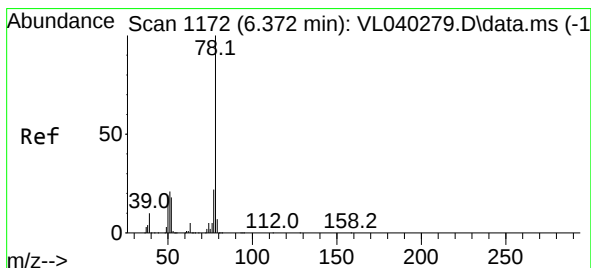
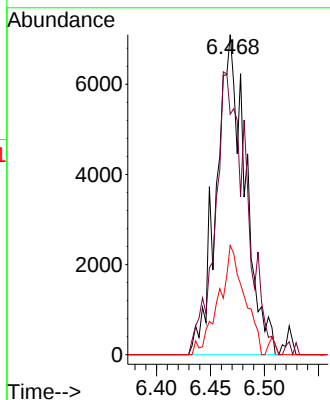
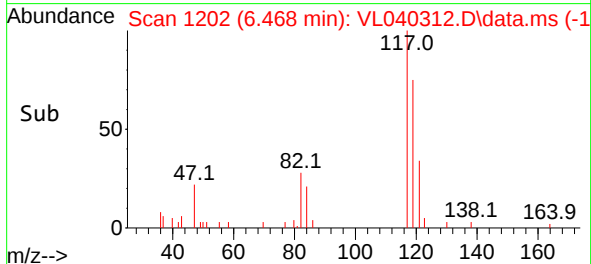
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 117 Resp: 13260
Ion Ratio Lower Upper
117 100
119 75.1 76.4 114.6
121 34.1 25.6 38.4

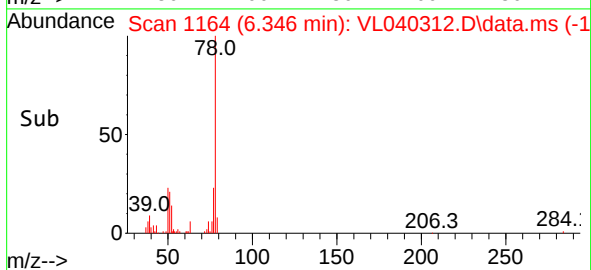
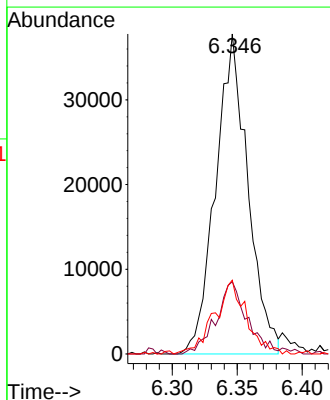
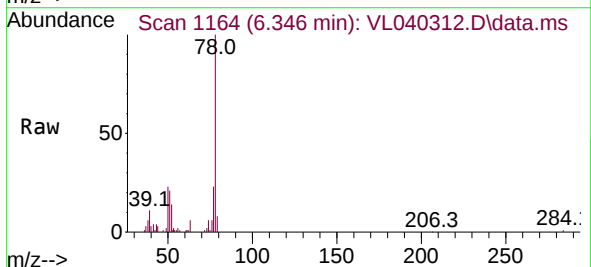
Manual Integrations
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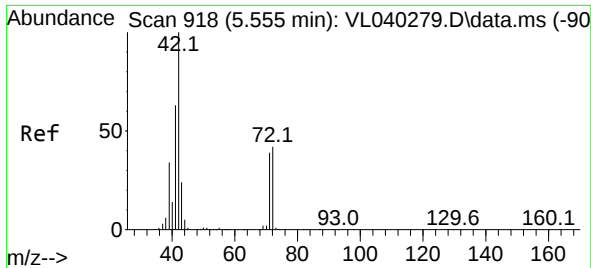
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#36
Benzene
Concen: 0.350 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. -0.026 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Tgt Ion: 78 Resp: 65060
Ion Ratio Lower Upper
78 100
77 22.6 17.8 26.8
50 22.5 15.4 23.2





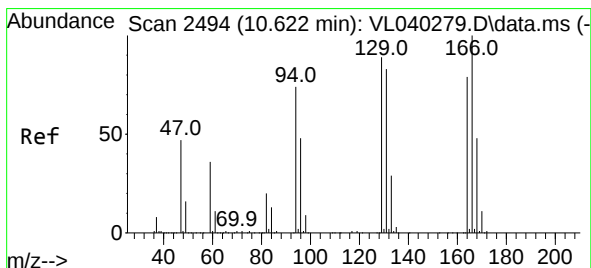
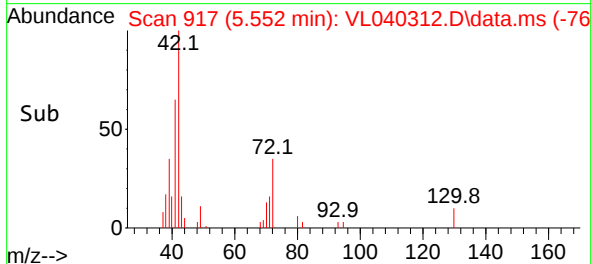
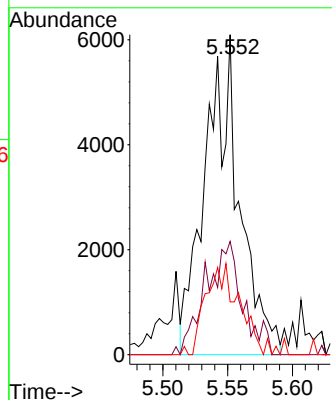
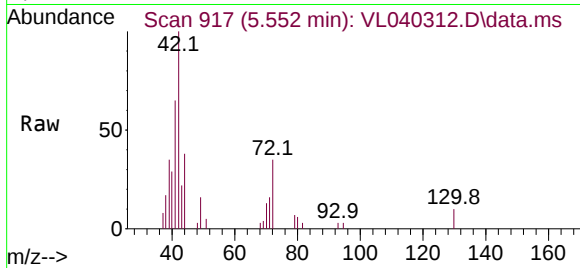
#41
Tetrahydrofuran
Concen: 0.162 ppbv m
RT: 5.552 min Scan# 918
Delta R.T. -0.003 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 42 Resp: 1122
Ion Ratio Lower Upper
42 100
72 37.9 32.6 49.0
71 27.8 31.0 46.4

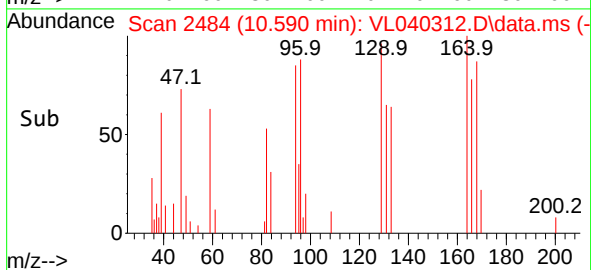
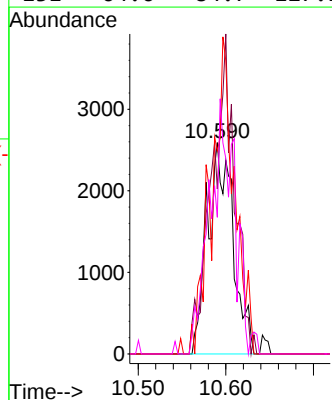
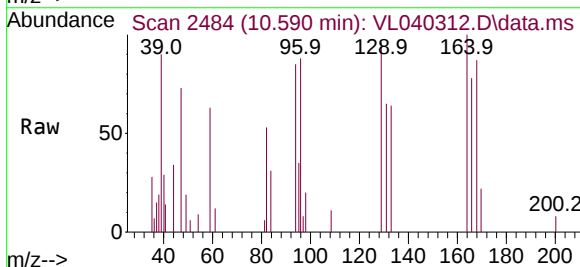
Manual Integrations
APPROVED

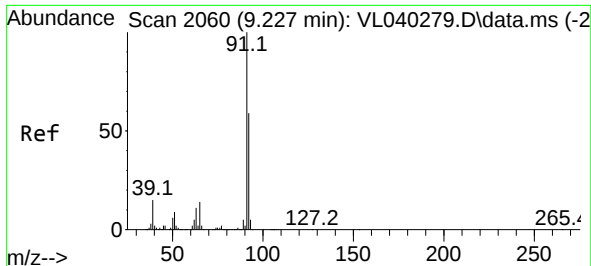
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#52
Tetrachloroethene
Concen: 0.096 ppbv m
RT: 10.590 min Scan# 2484
Delta R.T. -0.032 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Tgt Ion:164 Resp: 5369
Ion Ratio Lower Upper
164 100
166 78.0 101.8 152.6#
129 96.1 90.2 135.2
131 64.6 84.7 127.1#





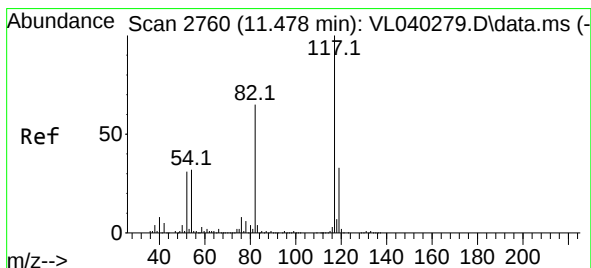
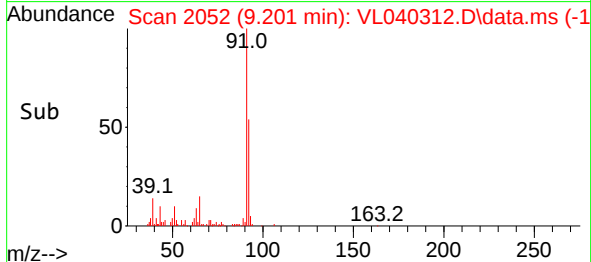
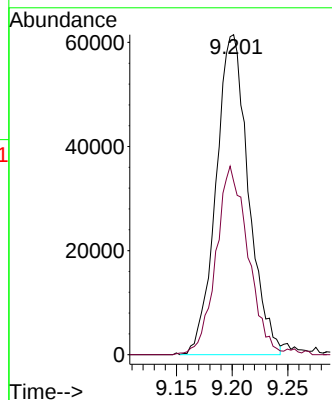
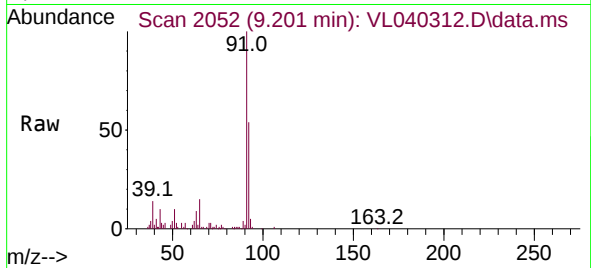
#53
Toluene
Concen: 0.641 ppbv
RT: 9.201 min Scan# 2060
Delta R.T. -0.026 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 124740
Ion Ratio Lower Upper
91 100
92 58.9 48.0 72.0

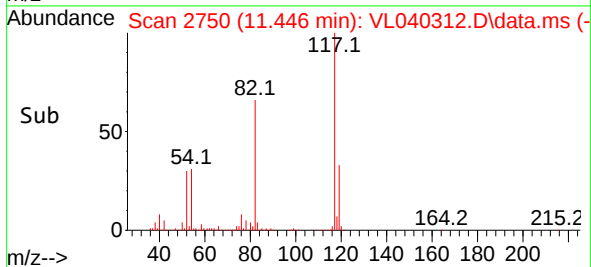
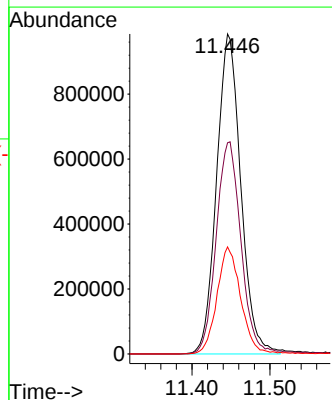
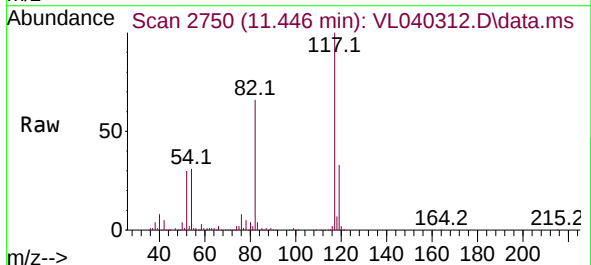
Manual Integrations
APPROVED

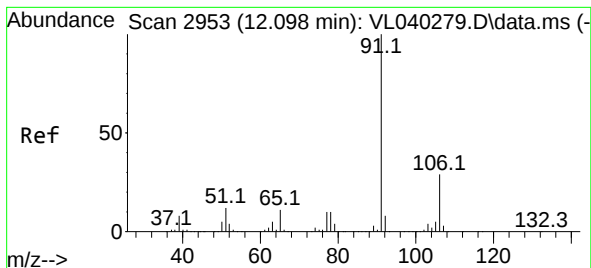
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. -0.032 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

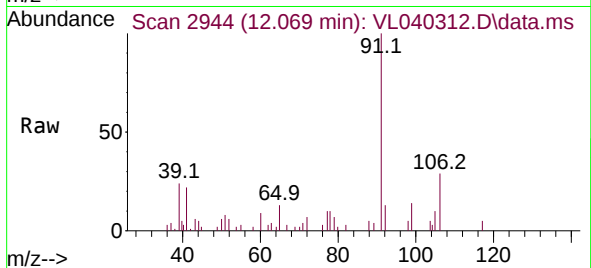
Tgt Ion:117 Resp: 2128421
Ion Ratio Lower Upper
117 100
82 68.4 51.4 77.2
119 33.0 24.0 36.0





#58
Ethyl Benzene
Concen: 0.090 ppbv m
RT: 12.069 min Scan# 2953
Delta R.T. -0.029 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

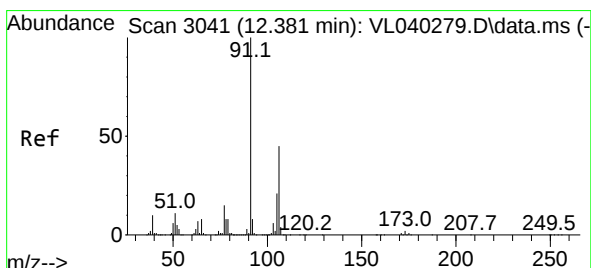
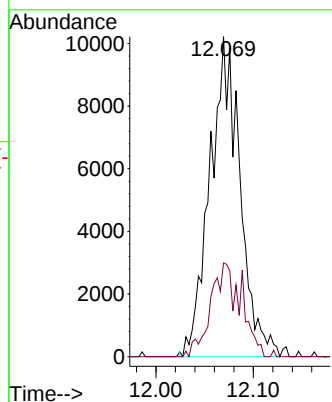
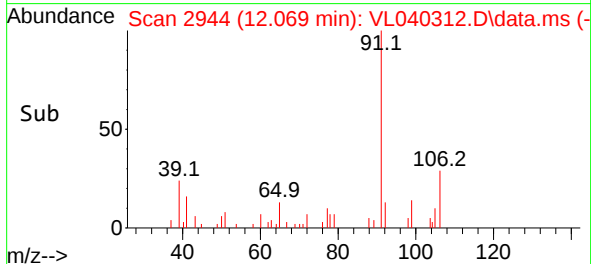
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 2190
Ion Ratio Lower Upper
91 100
106 29.3 23.4 35.2

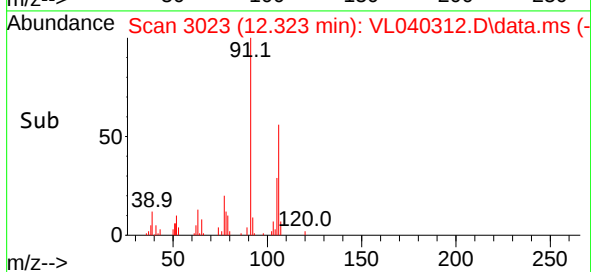
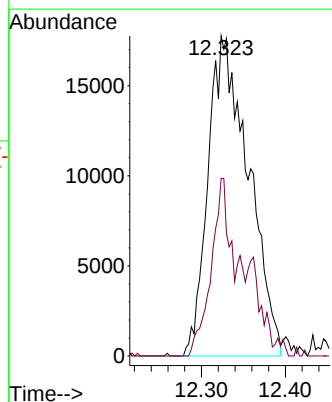
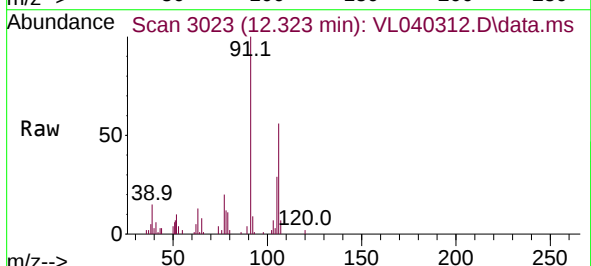
Manual Integrations
APPROVED

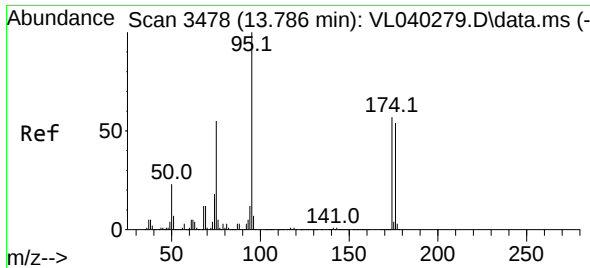
Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#59
m/p-Xylene
Concen: 0.268 ppbv m
RT: 12.323 min Scan# 3023
Delta R.T. -0.058 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

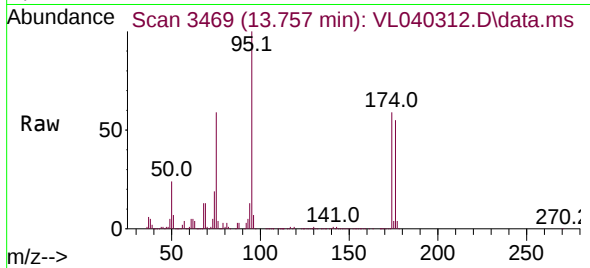
Tgt Ion: 91 Resp: 59410
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.737 ppbv
RT: 13.757 min Scan# 3478
Delta R.T. -0.029 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39

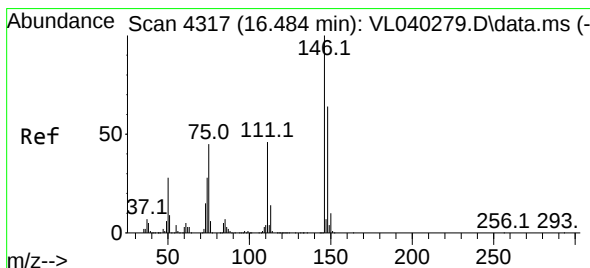
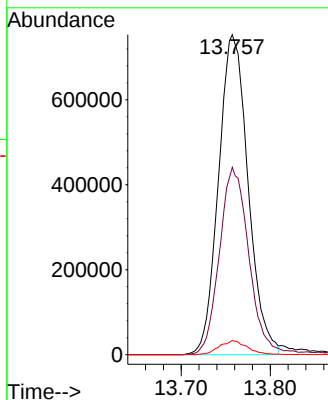
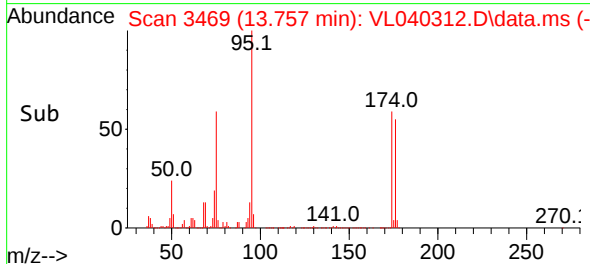
Instrument :
MSVOA_L
ClientSampleId :
IA2



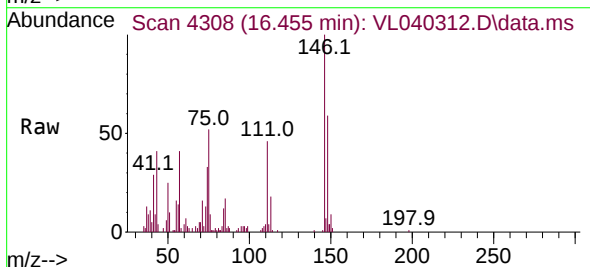
Tgt Ion: 95 Resp: 173553
Ion Ratio Lower Upper
95 100
174 59.9 47.0 70.6
175 4.3 3.4 5.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/06/2023
Supervised By :Mahesh Dadoda 04/06/2023



#76
1,4-Dichlorobenzene
Concen: 0.473 ppbv m
RT: 16.455 min Scan# 4308
Delta R.T. -0.029 min
Lab File: VL040312.D
Acq: 5 Apr 2023 11:39



Tgt Ion:146 Resp: 58538
Ion Ratio Lower Upper
146 100
111 50.9 23.8 71.2
148 70.8 32.5 97.5

