

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039643.D
 Acq On : 21 Sep 2022 20:19
 Operator : SY/AP
 Sample : N4669-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2022
 Supervised By :Mahesh Dadoda 09/28/2022

Quant Time: Sep 22 08:19:20 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

QLast Update : Mon Sep 19 14:26:28 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	1084330	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2785494	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.481	117	2485865	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 1901179 10.245 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.755	85	23353	0.186	ppbv	97
3) Chlorodifluoromethane	2.678	51	86280	0.671	ppbv #	70
4) Chloromethane	2.841	50	38744	0.499	ppbv	95
9) Propene	2.732	41	114538m	1.949	ppbv	
10) Heptane	7.594	43	147605	1.076	ppbv	99
11) Trichlorofluoromethane	3.594	101	30315	0.195	ppbv #	72
13) Ethanol	3.266	45	539207	120.415	ppbv	72
15) Acetone	3.488	43	9530834	78.990	ppbv	92
17) tert-Butyl alcohol	3.903	59	3672258	33.914	ppbv	99
20) Methylene Chloride	3.960	84	187039	3.353	ppbv	98
26) Hexane	5.237	57	329960	2.955	ppbv #	54
29) Chloroform	5.298	83	136676	0.848	ppbv	91
34) 2-Butanone	4.806	43	2688265	19.648	ppbv	98
36) Benzene	6.391	78	65567	0.308	ppbv #	82
41) Tetrahydrofuran	5.591	42	92694	1.104	ppbv #	51
42) Bromodichloromethane	7.266	83	11240	0.070	ppbv #	80
43) Methyl Methacrylate	7.494	69	80071	1.031	ppbv	91
52) Tetrachloroethene	10.626	164	7095m	0.087	ppbv	
53) Toluene	9.240	91	1068629	4.512	ppbv	100
58) Ethyl Benzene	12.105	91	141029m	0.492	ppbv	
59) m/p-Xylene	12.359	91	302520	1.186	ppbv	92
60) o-Xylene	13.073	91	97548	0.400	ppbv	97
61) Styrene	12.912	104	55119m	0.420	ppbv	
64) n-propylbenzene	14.931	120	9138	0.097	ppbv	68

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

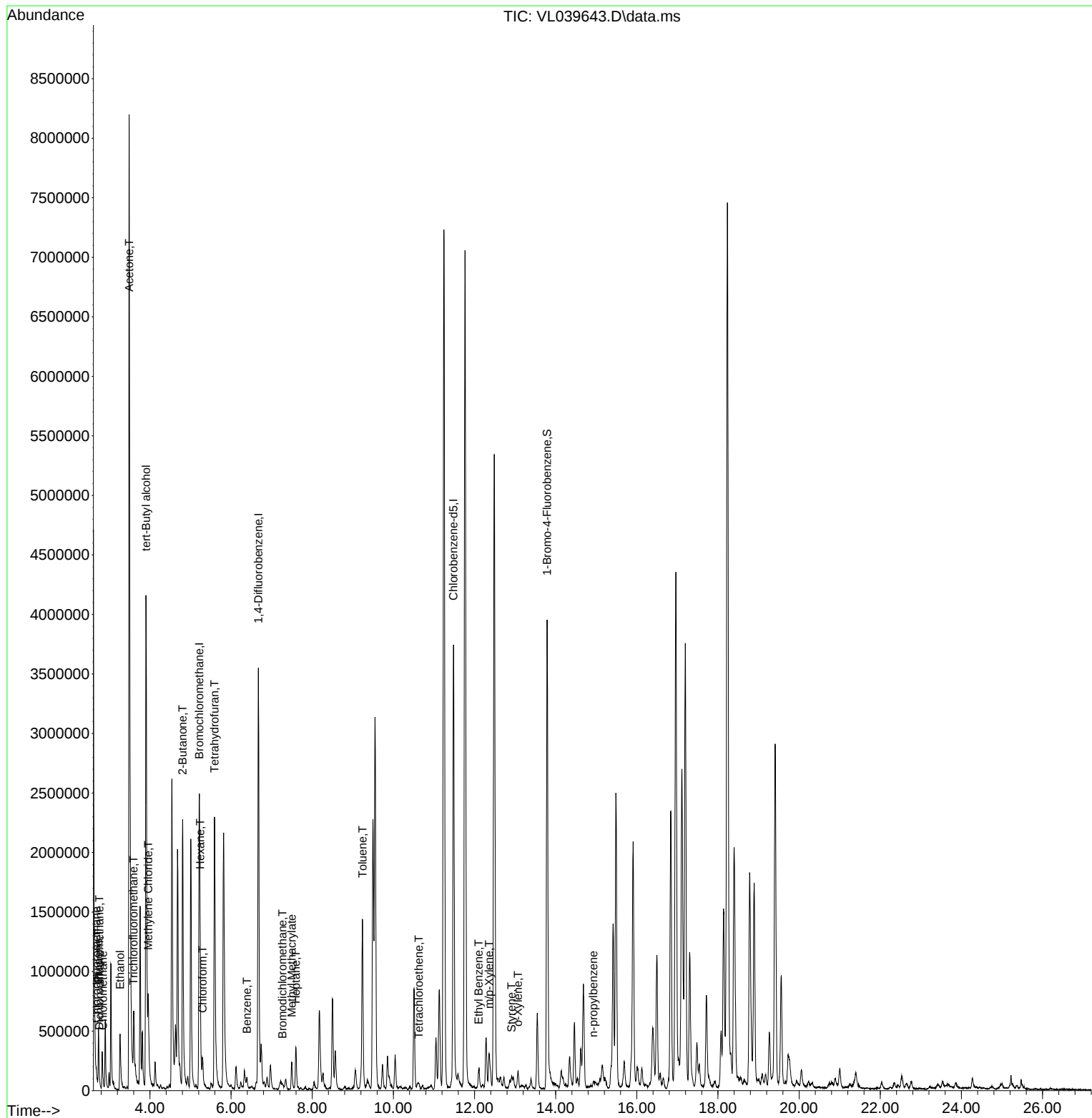
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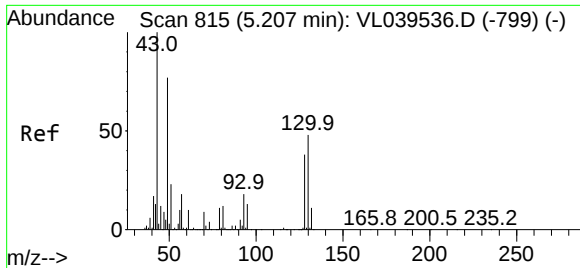
Instrument :
MSVOA_L
ClientSampleId :
C0PF4

Quant Time: Sep 22 08:19:20 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Sep 19 14:26:28 2022
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Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/22/2022
Supervised By : Mahesh Dadoda 09/28/2022





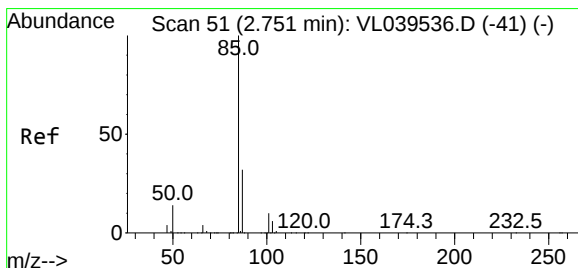
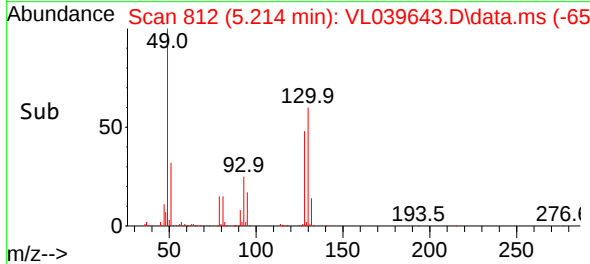
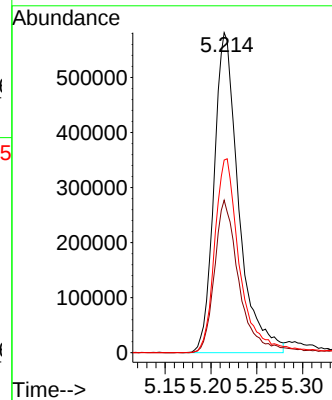
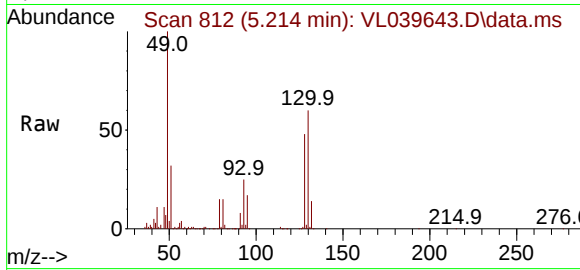
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
C0PF4

Tgt Ion: 49 Resp: 1084330
Ion Ratio Lower Upper
49 100
128 48.2 26.7 80.0
130 63.3 34.3 102.8

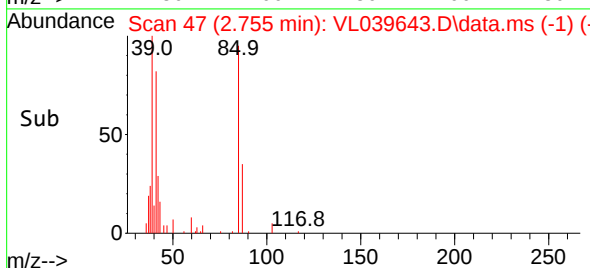
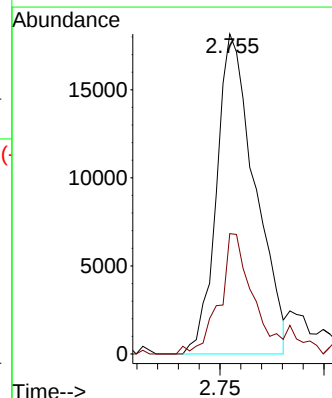
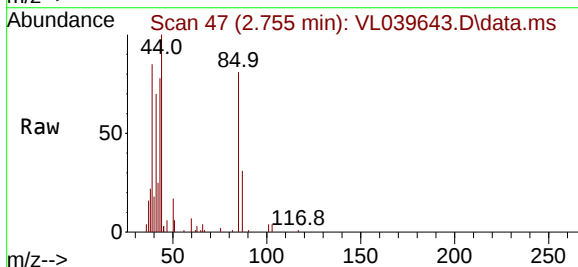
Manual Integrations
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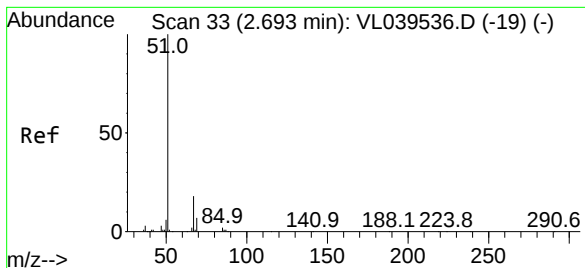
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#2
Dichlorodifluoromethane
Concen: 0.186 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.004 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

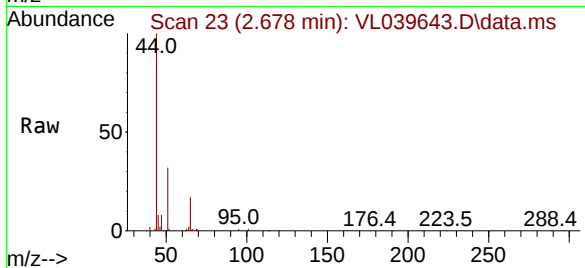
Tgt Ion: 85 Resp: 23353
Ion Ratio Lower Upper
85 100
87 35.2 26.7 40.1





#3
Chlorodifluoromethane
Concen: 0.671 ppbv
RT: 2.678 min Scan# 21
Delta R.T. -0.015 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

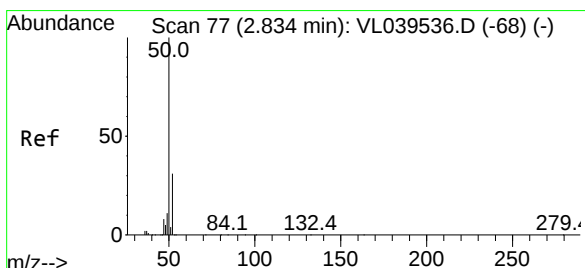
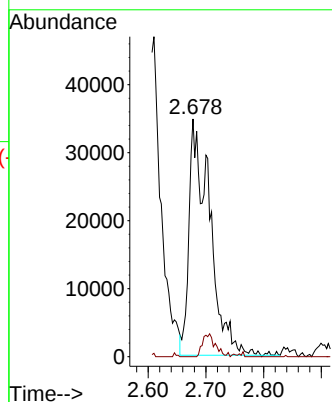
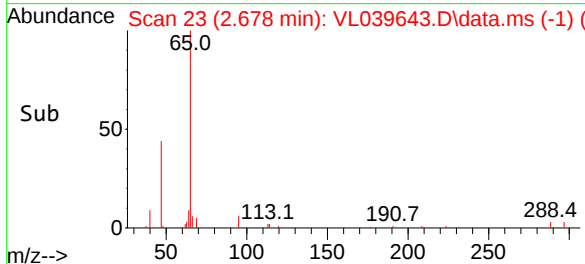
Instrument :
MSVOA_L
ClientSampleId :
COPF4



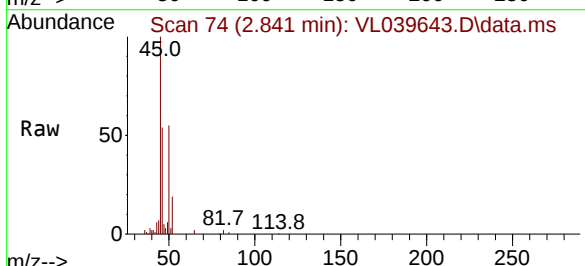
Tgt Ion: 51 Resp: 86280
Ion Ratio Lower Upper
51 100
67 6.1 15.7 23.5

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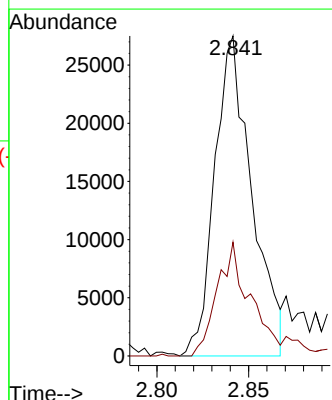
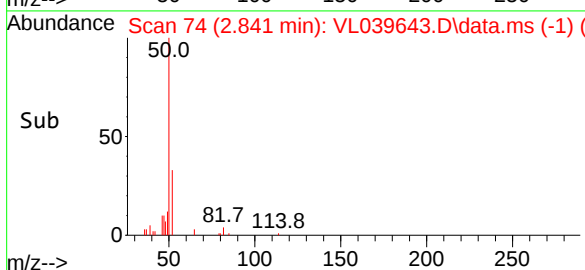
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022

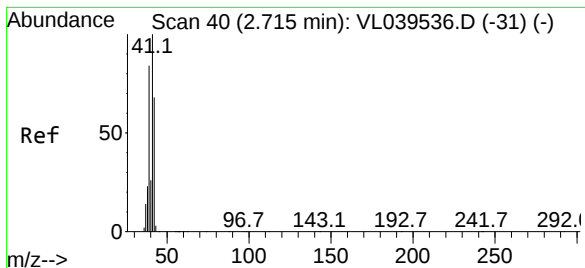


#4
Chloromethane
Concen: 0.499 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.007 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19



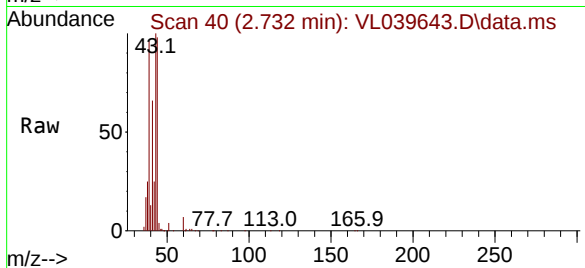
Tgt Ion: 50 Resp: 38744
Ion Ratio Lower Upper
50 100
52 35.8 26.5 39.7





#9
 Propene
 Concen: 1.949 ppbv m
 RT: 2.732 min Scan# 40
 Delta R.T. 0.017 min
 Lab File: VL039643.D
 Acq: 21 Sep 2022 20:19

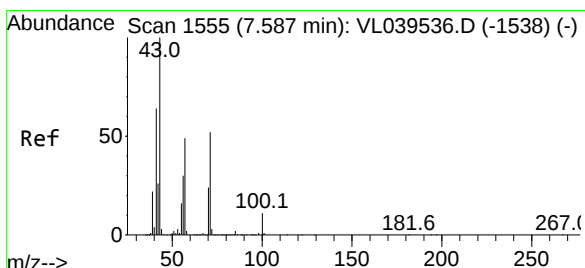
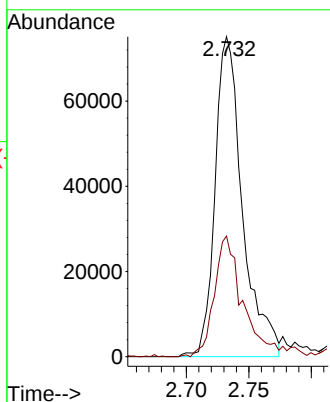
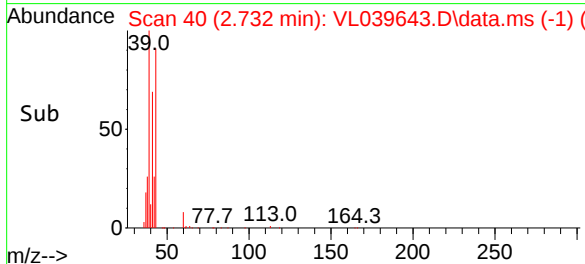
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF4



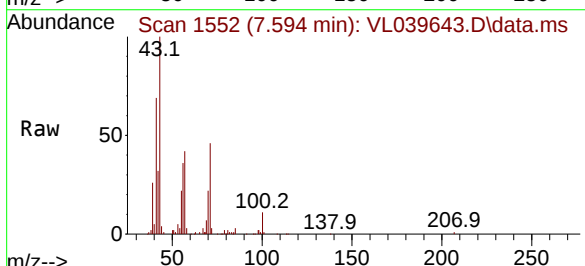
Tgt Ion: 41 Resp: 114538
 Ion Ratio Lower Upper
 41 100
 42 102.1 55.2 82.8

Manual Integrations
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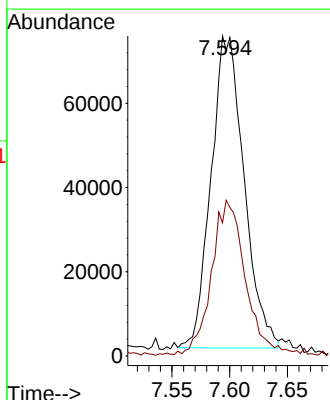
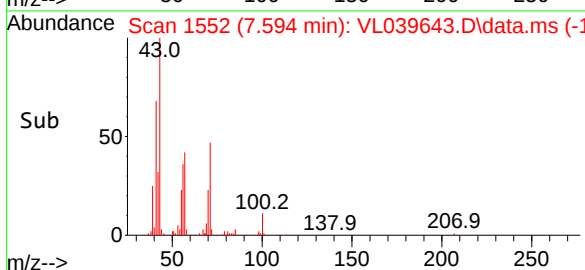
Reviewed By :Semsettin Yesilyurt 09/22/2022
 Supervised By :Mahesh Dadoda 09/28/2022

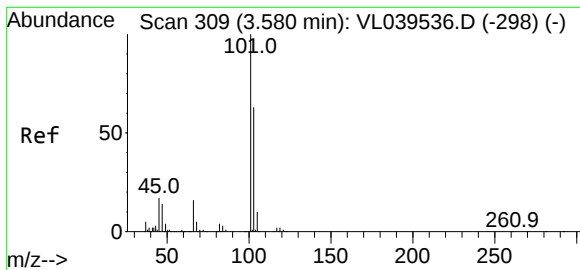


#10
 Heptane
 Concen: 1.076 ppbv
 RT: 7.594 min Scan# 1552
 Delta R.T. 0.007 min
 Lab File: VL039643.D
 Acq: 21 Sep 2022 20:19



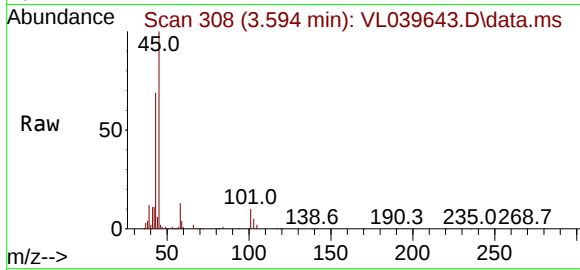
Tgt Ion: 43 Resp: 147605
 Ion Ratio Lower Upper
 43 100
 57 51.3 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.195 ppbv
RT: 3.594 min Scan# 309
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

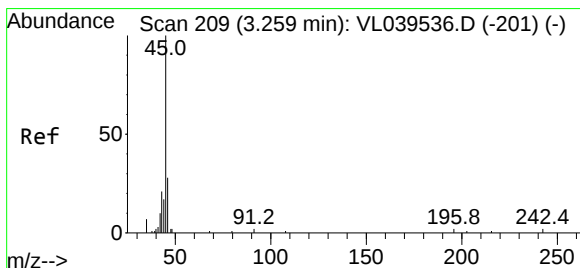
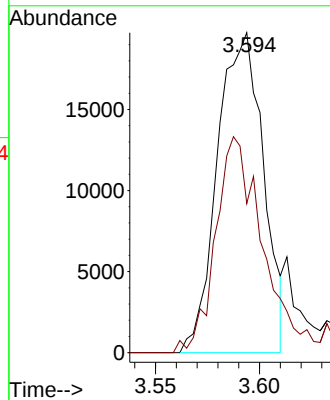
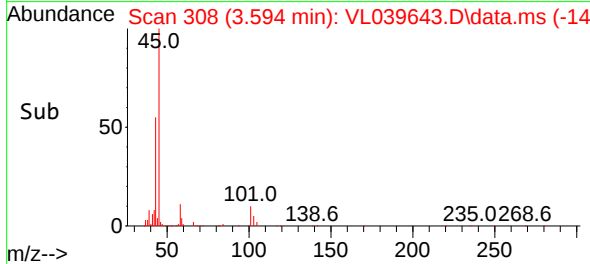
Instrument :
MSVOA_L
ClientSampleId :
COPF4



Tgt Ion:101 Resp: 3031
Ion Ratio Lower Upper
101 100
103 42.8 51.8 77.8

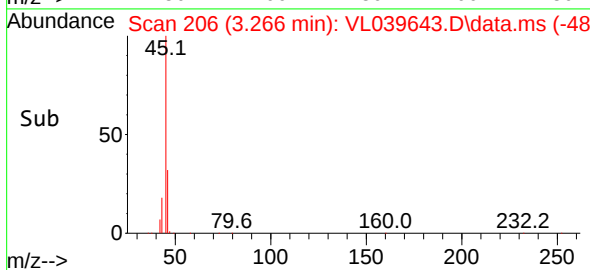
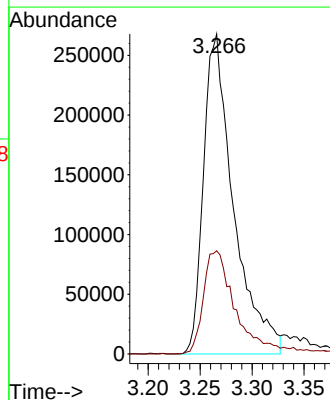
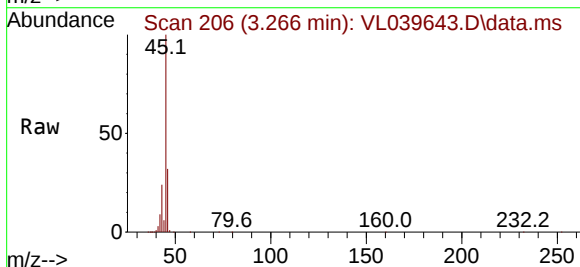
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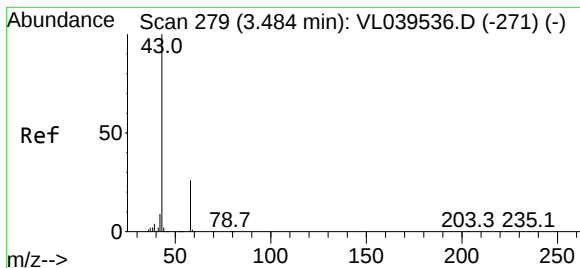
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#13
Ethanol
Concen: 120.415 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.007 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Tgt Ion: 45 Resp: 539207
Ion Ratio Lower Upper
45 100
46 36.0 22.8 91.2





#15

Acetone

Concen: 78.990 ppbv

RT: 3.488 min Scan# 21

Delta R.T. 0.004 min

Lab File: VL039643.D

Acq: 21 Sep 2022 20:19

Instrument :

MSVOA_L

ClientSampleId :

C0PF4

Tgt Ion: 43 Resp: 9530834

Ion Ratio Lower Upper

43 100

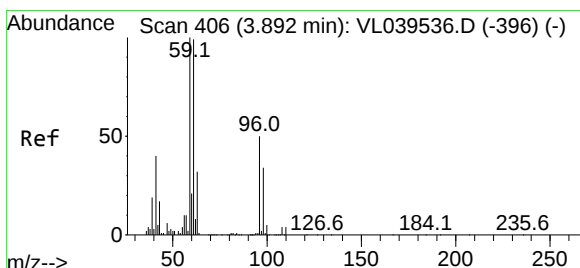
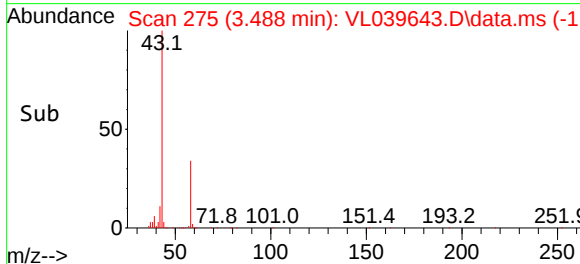
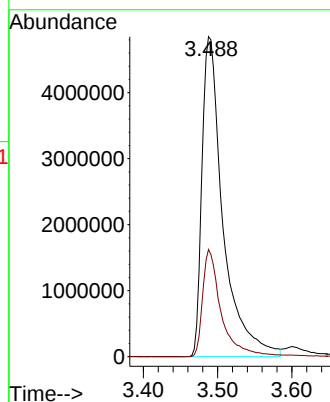
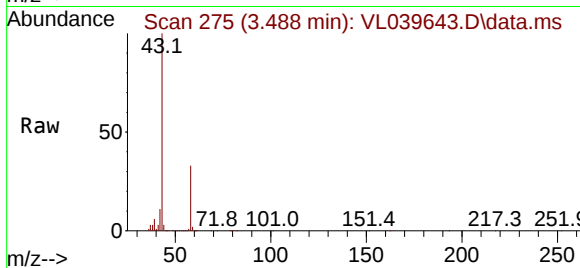
58 30.2 21.0 31.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/22/2022

Supervised By :Mahesh Dadoda 09/28/2022



#17

tert-Butyl alcohol

Concen: 33.914 ppbv

RT: 3.903 min Scan# 404

Delta R.T. 0.010 min

Lab File: VL039643.D

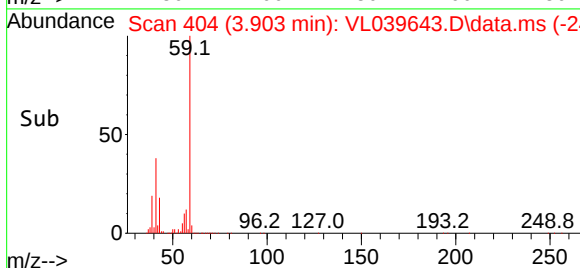
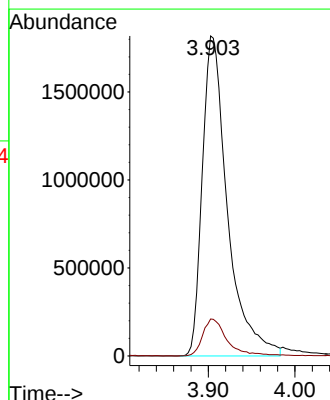
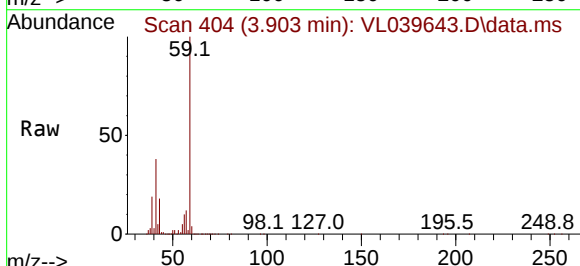
Acq: 21 Sep 2022 20:19

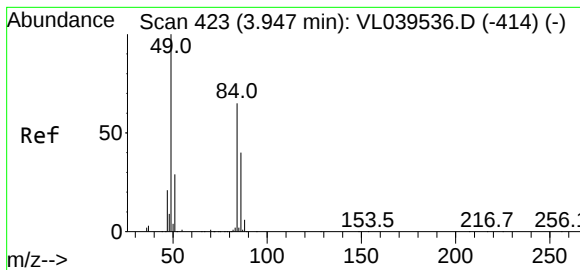
Tgt Ion: 59 Resp: 3672258

Ion Ratio Lower Upper

59 100

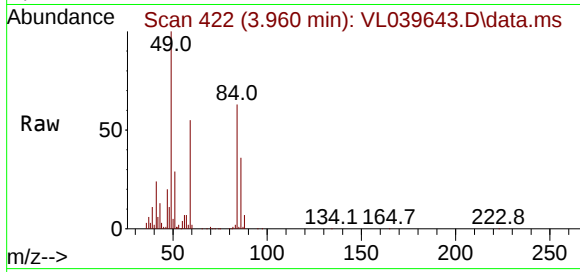
57 11.5 8.7 13.1





#20
Methylene Chloride
Concen: 3.353 ppbv
RT: 3.960 min Scan# 419
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

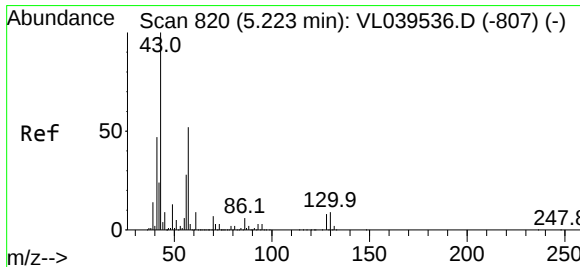
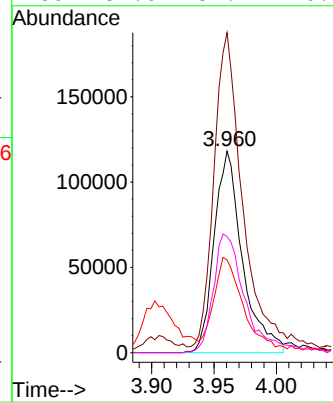
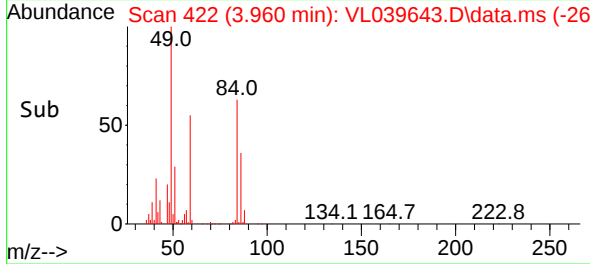
Instrument :
MSVOA_L
ClientSampleId :
COPF4



Tgt Ion: 84 Resp: 187039
Ion Ratio Lower Upper
84 100
49 154.5 123.1 184.7
51 43.1 34.4 51.6
86 57.6 51.1 76.7

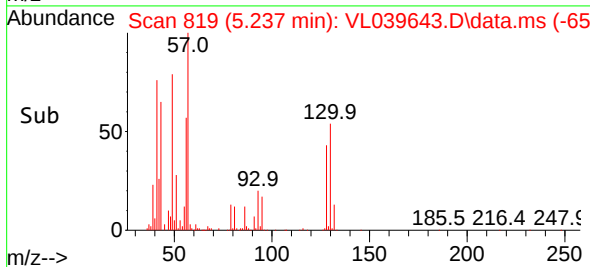
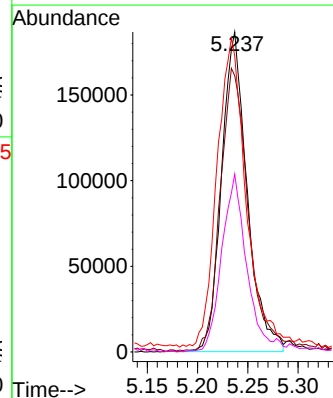
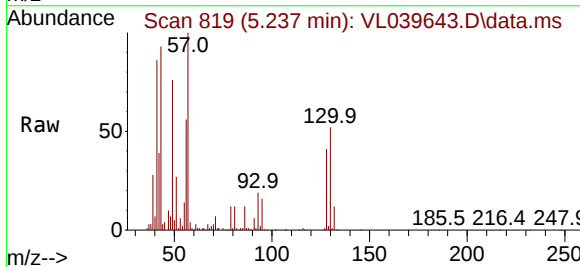
Manual Integrations
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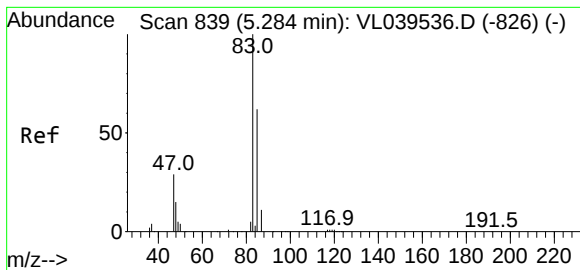
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#26
Hexane
Concen: 2.955 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

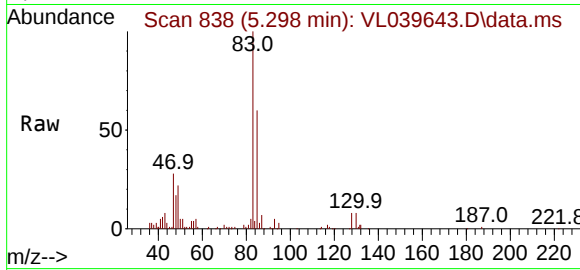
Tgt Ion: 57 Resp: 329960
Ion Ratio Lower Upper
57 100
41 97.3 76.9 115.3
43 113.9 191.0 286.6#
56 56.8 43.2 64.8





#29
Chloroform
Concen: 0.848 ppbv
RT: 5.298 min Scan# 81
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

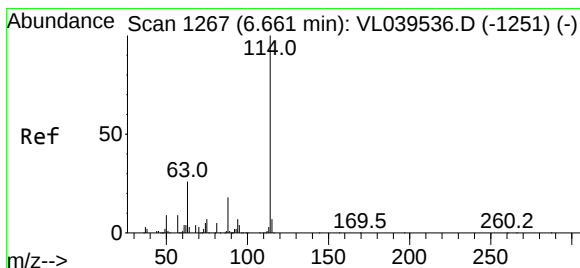
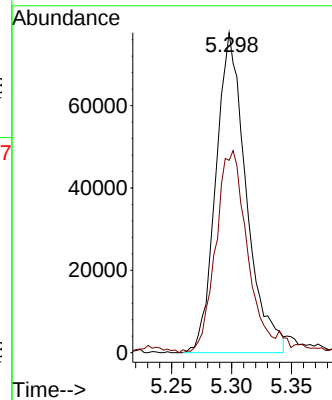
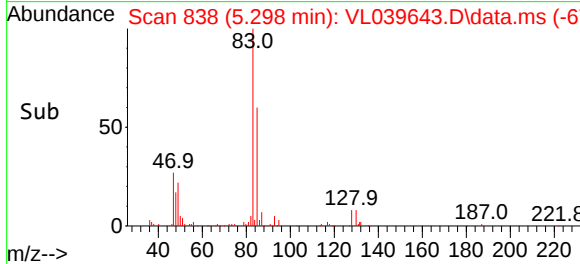
Instrument :
MSVOA_L
ClientSampleId :
COPF4



Tgt Ion: 83 Resp: 136670
Ion Ratio Lower Upper
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85 59.2 52.8 79.2

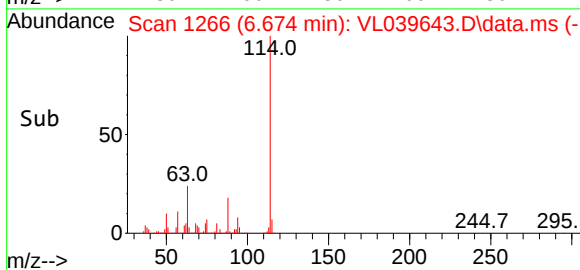
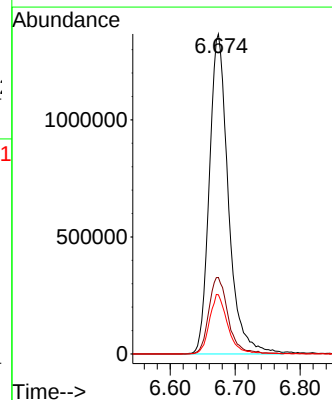
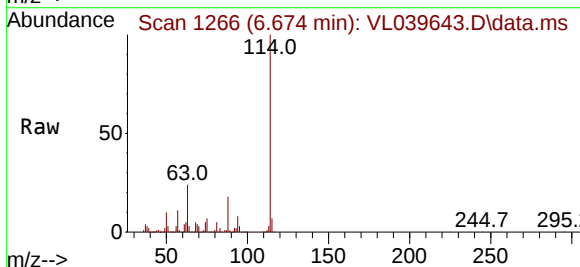
Manual Integrations
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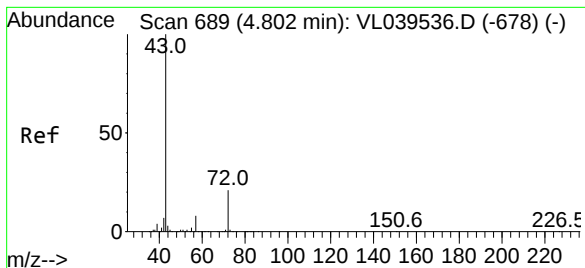
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

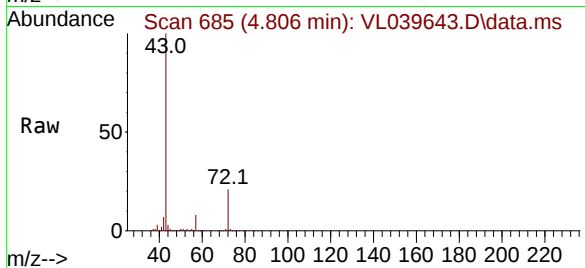
Tgt Ion:114 Resp: 2785494
Ion Ratio Lower Upper
114 100
63 24.7 20.2 30.4
88 18.0 14.5 21.7





#34
2-Butanone
Concen: 19.648 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

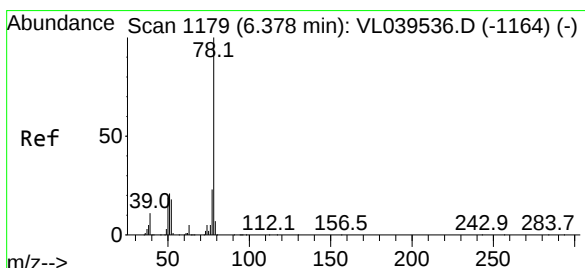
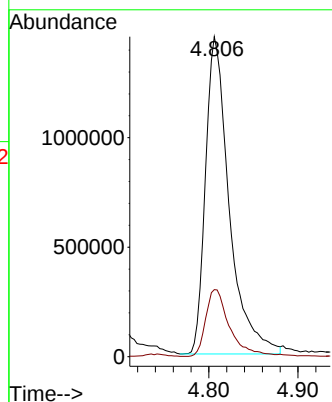
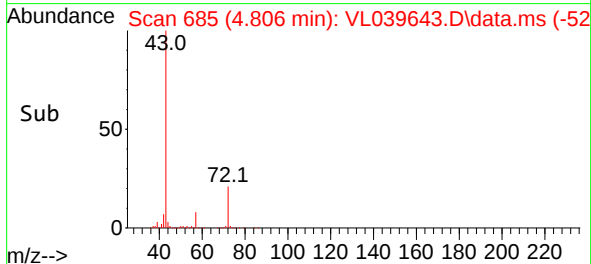
Instrument :
MSVOA_L
ClientSampleId :
COPF4



Tgt Ion: 43 Resp: 268826
Ion Ratio Lower Upper
43 100
72 21.7 17.9 26.9

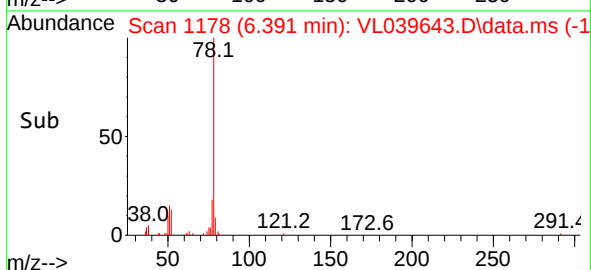
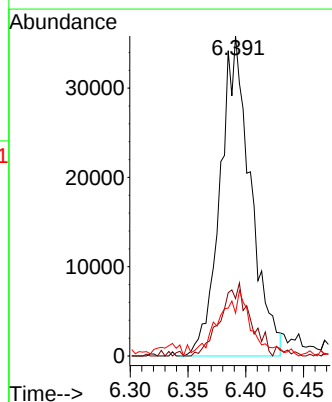
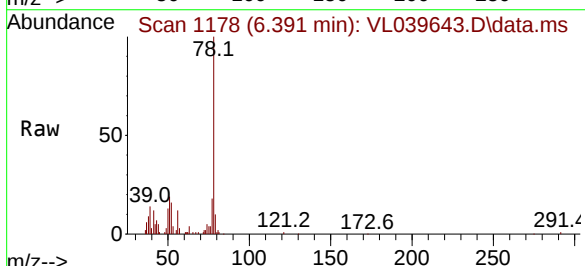
Manual Integrations
APPROVED

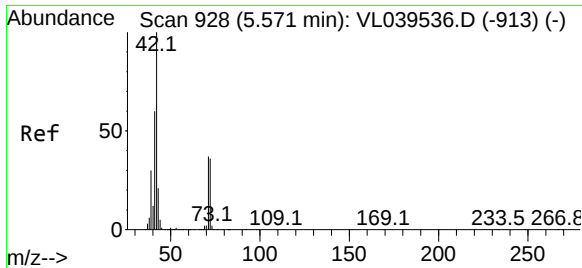
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#36
Benzene
Concen: 0.308 ppbv
RT: 6.391 min Scan# 1178
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

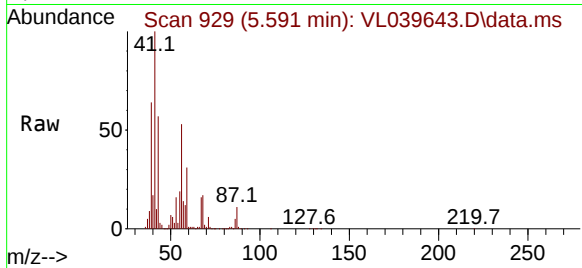
Tgt Ion: 78 Resp: 65567
Ion Ratio Lower Upper
78 100
77 16.5 20.3 30.5#
50 11.1 15.5 23.3#





#41
Tetrahydrofuran
Concen: 1.104 ppbv
RT: 5.591 min Scan# 91
Delta R.T. 0.020 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

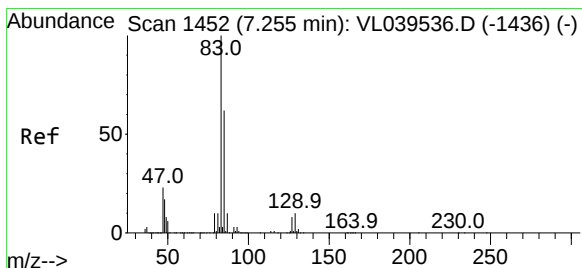
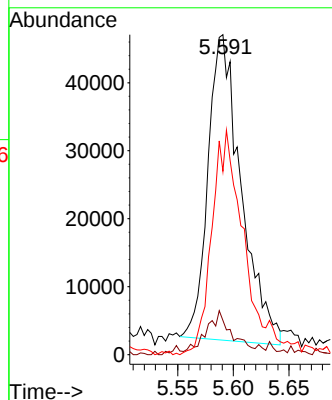
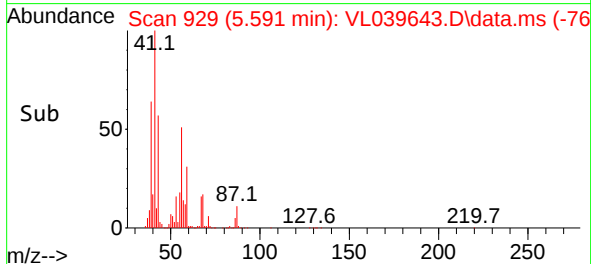
Instrument :
MSVOA_L
ClientSampleId :
COPF4



Tgt Ion: 42 Resp: 92694
Ion Ratio Lower Upper
42 100
72 13.9 31.8 47.8
71 74.2 31.8 47.8

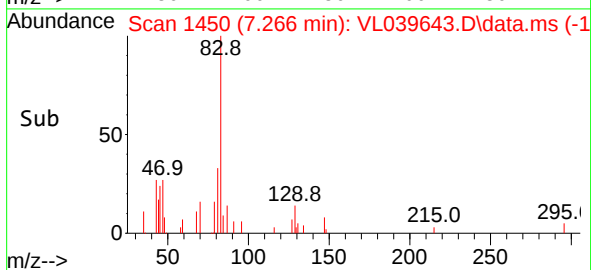
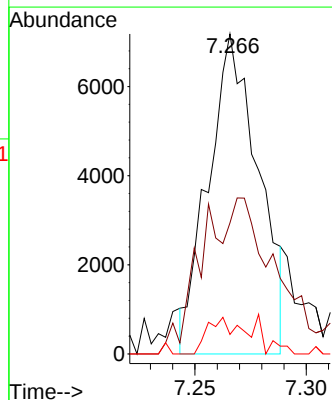
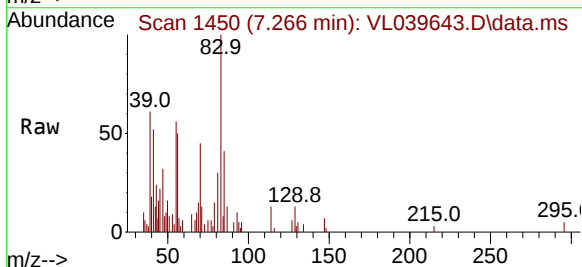
Manual Integrations
APPROVED

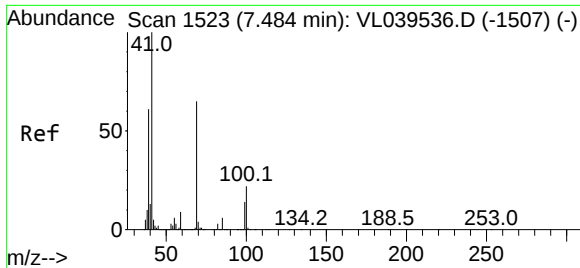
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#42
Bromodichloromethane
Concen: 0.070 ppbv
RT: 7.266 min Scan# 1450
Delta R.T. 0.010 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Tgt Ion: 83 Resp: 11240
Ion Ratio Lower Upper
83 100
85 46.4 50.7 76.1
127 7.5 6.6 9.8





#43
Methyl Methacrylate
Concen: 1.031 ppbv
RT: 7.494 min Scan# 1523
Delta R.T. 0.010 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

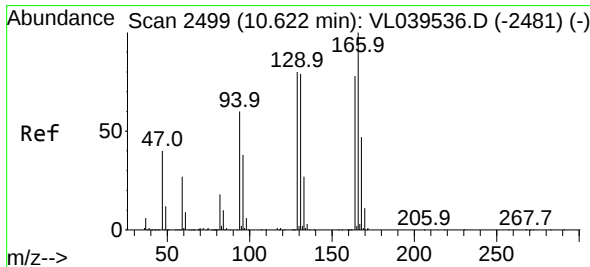
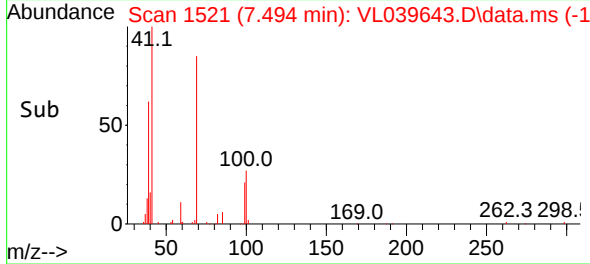
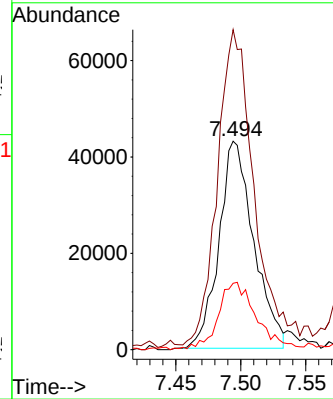
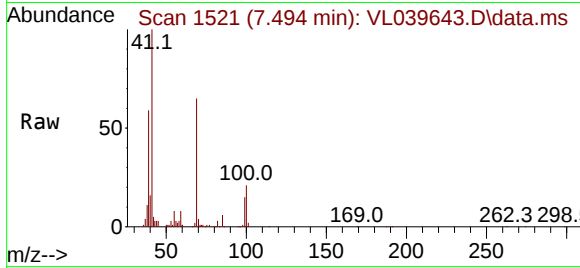
Instrument :
MSVOA_L
ClientSampleId :
COPF4

Tgt Ion: 69 Resp: 8007

Ion	Ratio	Lower	Upper
69	100		
41	164.0	120.8	181.2
100	37.1	27.8	41.6

Manual Integrations
APPROVED

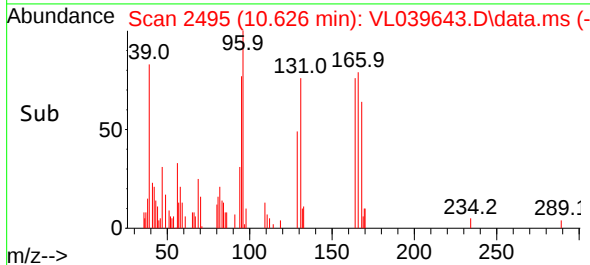
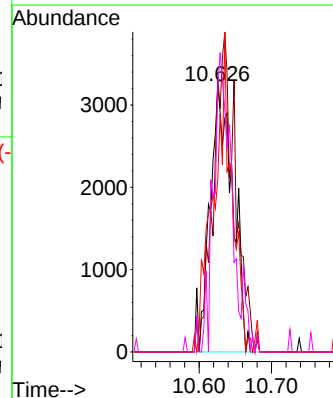
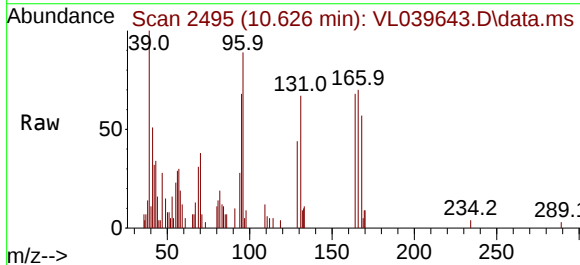
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022

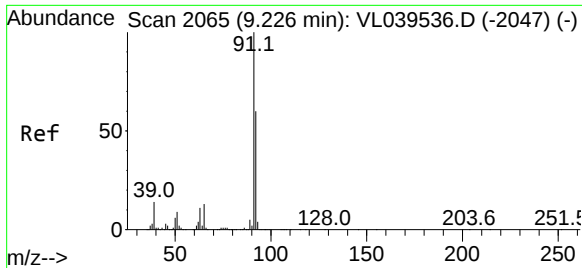


#52
Tetrachloroethene
Concen: 0.087 ppbv m
RT: 10.626 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Tgt Ion:164 Resp: 7095

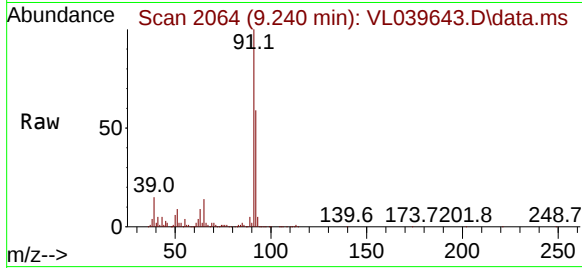
Ion	Ratio	Lower	Upper
164	100		
166	103.5	102.2	153.2
129	64.7	85.8	128.8#
131	99.0	83.3	124.9





#53
Toluene
Concen: 4.512 ppbv
RT: 9.240 min Scan# 2065
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

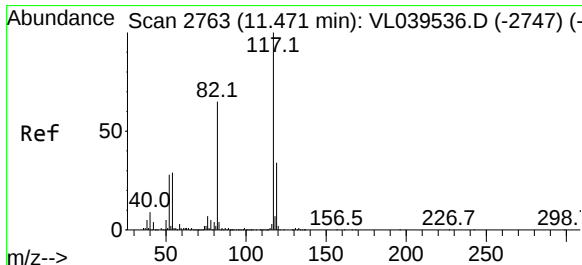
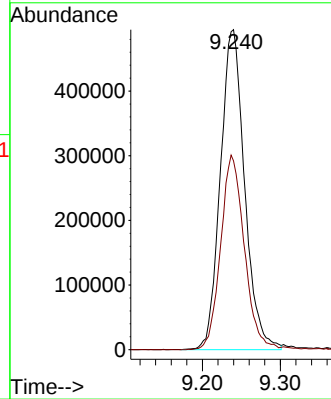
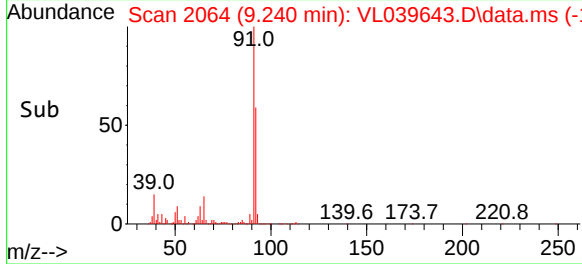
Instrument :
MSVOA_L
ClientSampleId :
COPF4



Tgt Ion: 91 Resp: 1068629
Ion Ratio Lower Upper
91 100
92 60.1 48.2 72.2

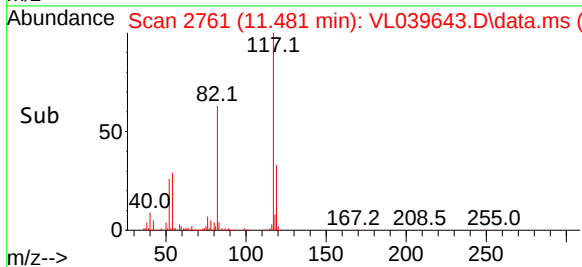
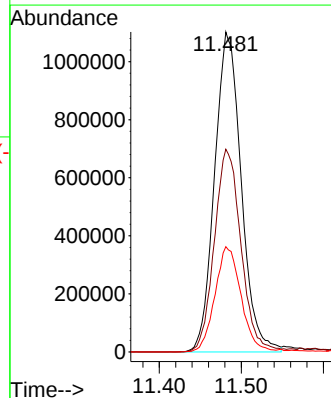
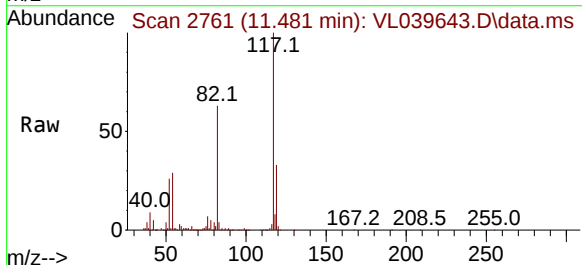
Manual Integrations
APPROVED

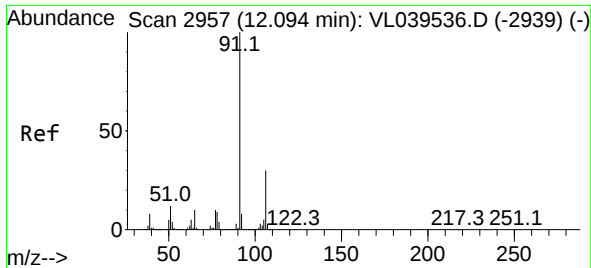
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.010 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Tgt Ion:117 Resp: 2485865
Ion Ratio Lower Upper
117 100
82 63.4 50.8 76.2
119 32.9 24.1 36.1





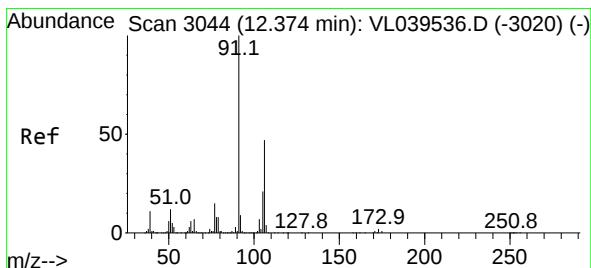
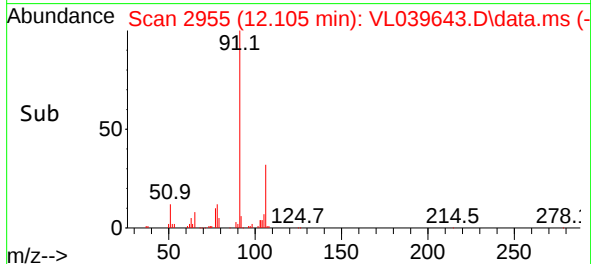
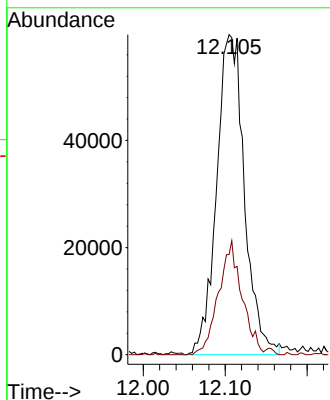
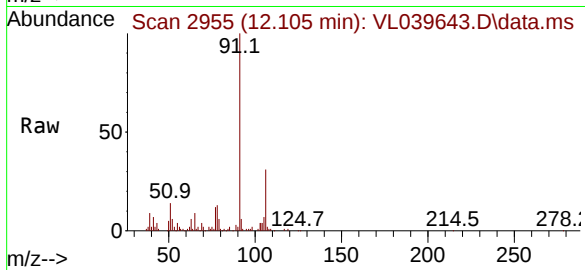
#58
Ethyl Benzene
Concen: 0.492 ppbv m
RT: 12.105 min Scan# 2957
Delta R.T. 0.010 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
COPF4

Tgt Ion: 91 Resp: 141029
Ion Ratio Lower Upper
91 100
106 31.3 25.4 38.0

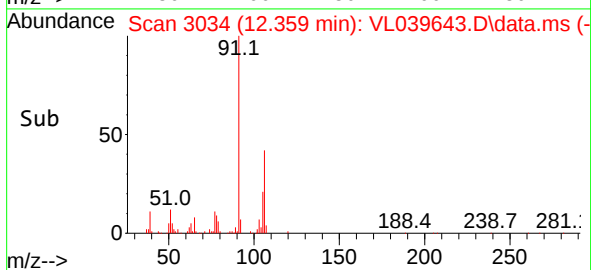
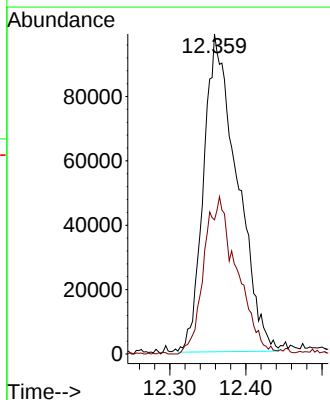
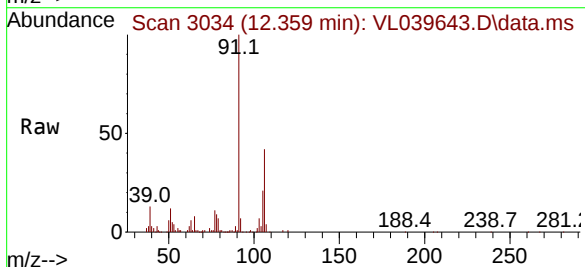
Manual Integrations
APPROVED

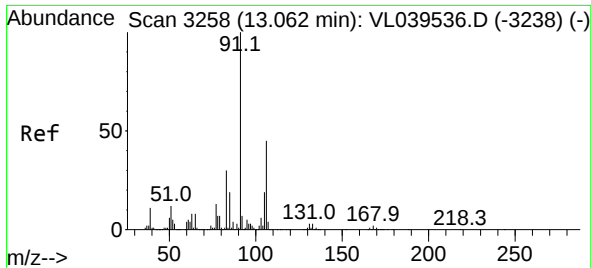
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#59
m/p-Xylene
Concen: 1.186 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. -0.015 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Tgt Ion: 91 Resp: 302520
Ion Ratio Lower Upper
91 100
106 49.5 35.4 53.2





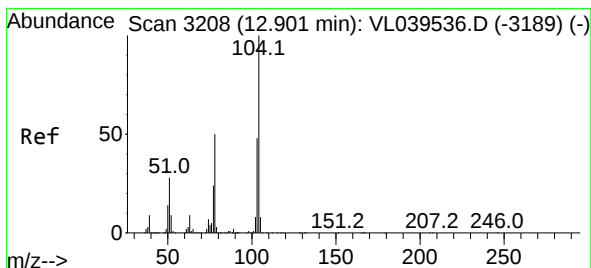
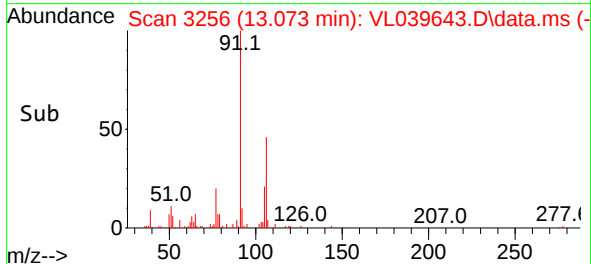
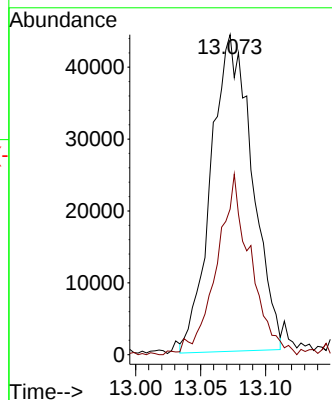
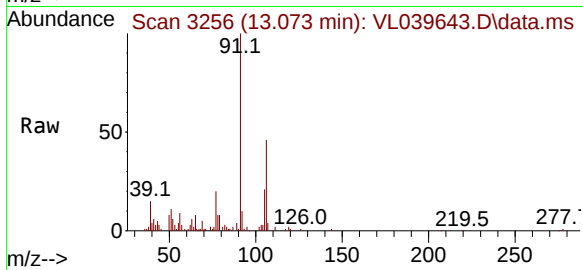
#60
o-Xylene
Concen: 0.400 ppbv
RT: 13.073 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
COPF4

Tgt Ion: 91 Resp: 9754
Ion Ratio Lower Upper
91 100
106 46.7 22.4 67.3

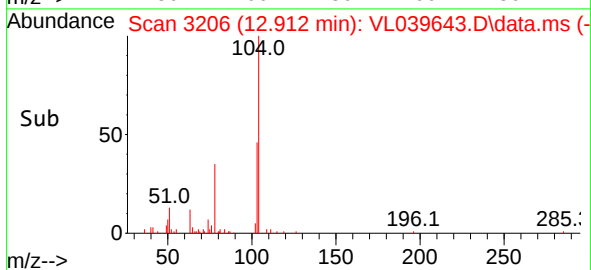
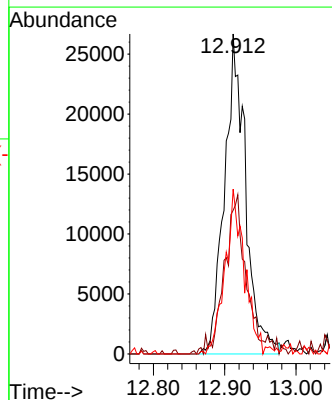
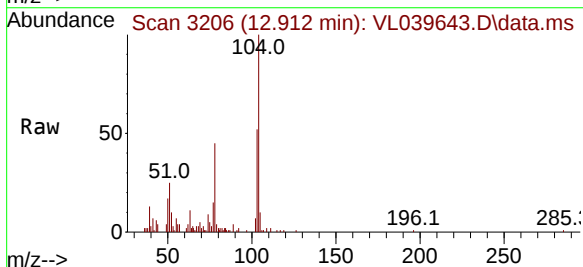
Manual Integrations
APPROVED

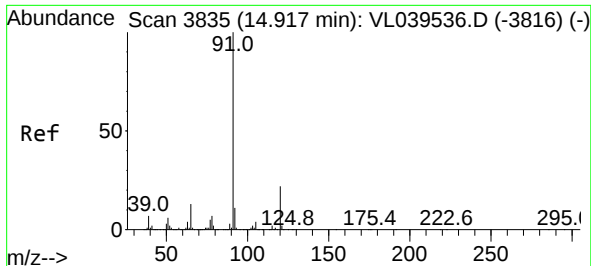
Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#61
Styrene
Concen: 0.420 ppbv m
RT: 12.912 min Scan# 3206
Delta R.T. 0.010 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

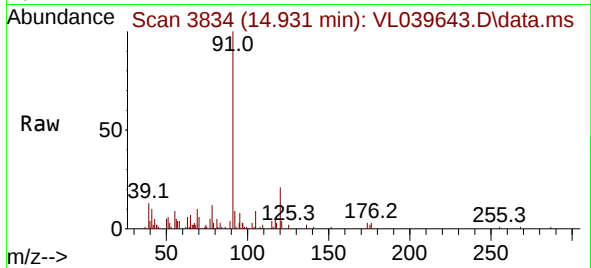
Tgt Ion:104 Resp: 55119
Ion Ratio Lower Upper
104 100
78 0.0 41.2 61.8#
103 47.9 38.7 58.1





#64
n-propylbenzene
Concen: 0.097 ppbv
RT: 14.931 min Scan# 3834
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19

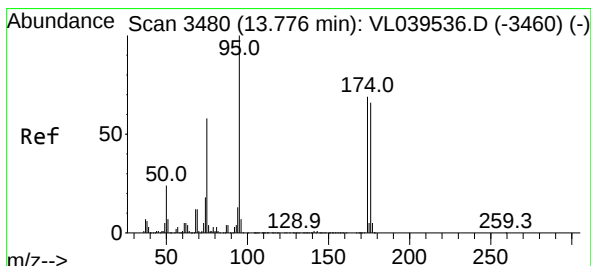
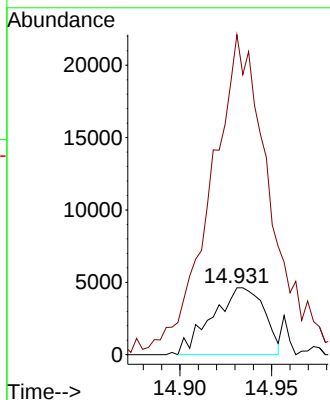
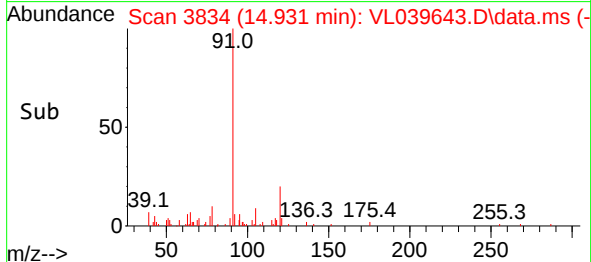
Instrument :
MSVOA_L
ClientSampleId :
COPF4



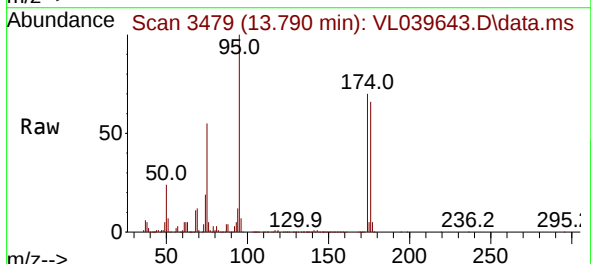
Tgt Ion: 120 Resp: 9138
Ion Ratio Lower Upper
120 100
91 541.3 367.2 550.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2022
Supervised By :Mahesh Dadoda 09/28/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.245 ppbv
RT: 13.790 min Scan# 3479
Delta R.T. 0.014 min
Lab File: VL039643.D
Acq: 21 Sep 2022 20:19



Tgt Ion: 95 Resp: 1901179
Ion Ratio Lower Upper
95 100
174 72.1 55.9 83.9
175 5.4 4.2 6.4

