

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039923.D
 Acq On : 22 Nov 2022 19:29
 Operator : SY/AP
 Sample : N5767-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/23/2022
 Supervised By :Mahesh Dadoda 11/24/2022

Quant Time: Nov 23 04:50:44 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Tue Nov 22 03:45:31 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	1012172	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.635	114	2837830	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2480802	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1965234	10.371	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	83881	0.579	ppbv	99
3) Chlorodifluoromethane	2.652	51	51828m	0.371	ppbv	
4) Chloromethane	2.793	50	32565	0.365	ppbv	98
9) Propene	2.681	41	215533m	3.276	ppbv	
10) Heptane	7.558	43	18191	0.115	ppbv	99
11) Trichlorofluoromethane	3.542	101	41738	0.236	ppbv	87
12) 1,1,2-Trichlorotrifluo...	4.050	101	9260m	0.069	ppbv	
13) Ethanol	3.221	45	237834	47.348	ppbv	100
15) Acetone	3.446	43	976280	7.272	ppbv	95
20) Methylene Chloride	3.912	84	1369030	21.048	ppbv	97
26) Hexane	5.192	57	1173544	10.899	ppbv #	38
29) Chloroform	5.253	83	166350	1.162	ppbv	97
34) 2-Butanone	4.774	43	34405	0.253	ppbv #	81
35) Carbon Tetrachloride	6.478	117	12169m	0.076	ppbv	
36) Benzene	6.352	78	99576	0.413	ppbv	96
44) 2,2,4-Trimethylpentane	7.311	57	49337	0.123	ppbv #	61
52) Tetrachloroethene	10.610	164	13940m	0.154	ppbv	
53) Toluene	9.204	91	188557	0.686	ppbv	96
58) Ethyl Benzene	12.079	91	40119m	0.119	ppbv	
59) m/p-Xylene	12.330	91	99127m	0.352	ppbv	
60) o-Xylene	13.047	91	31039	0.116	ppbv	81
74) 1,2,4-Trimethylbenzene	16.104	105	43407m	0.148	ppbv	

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

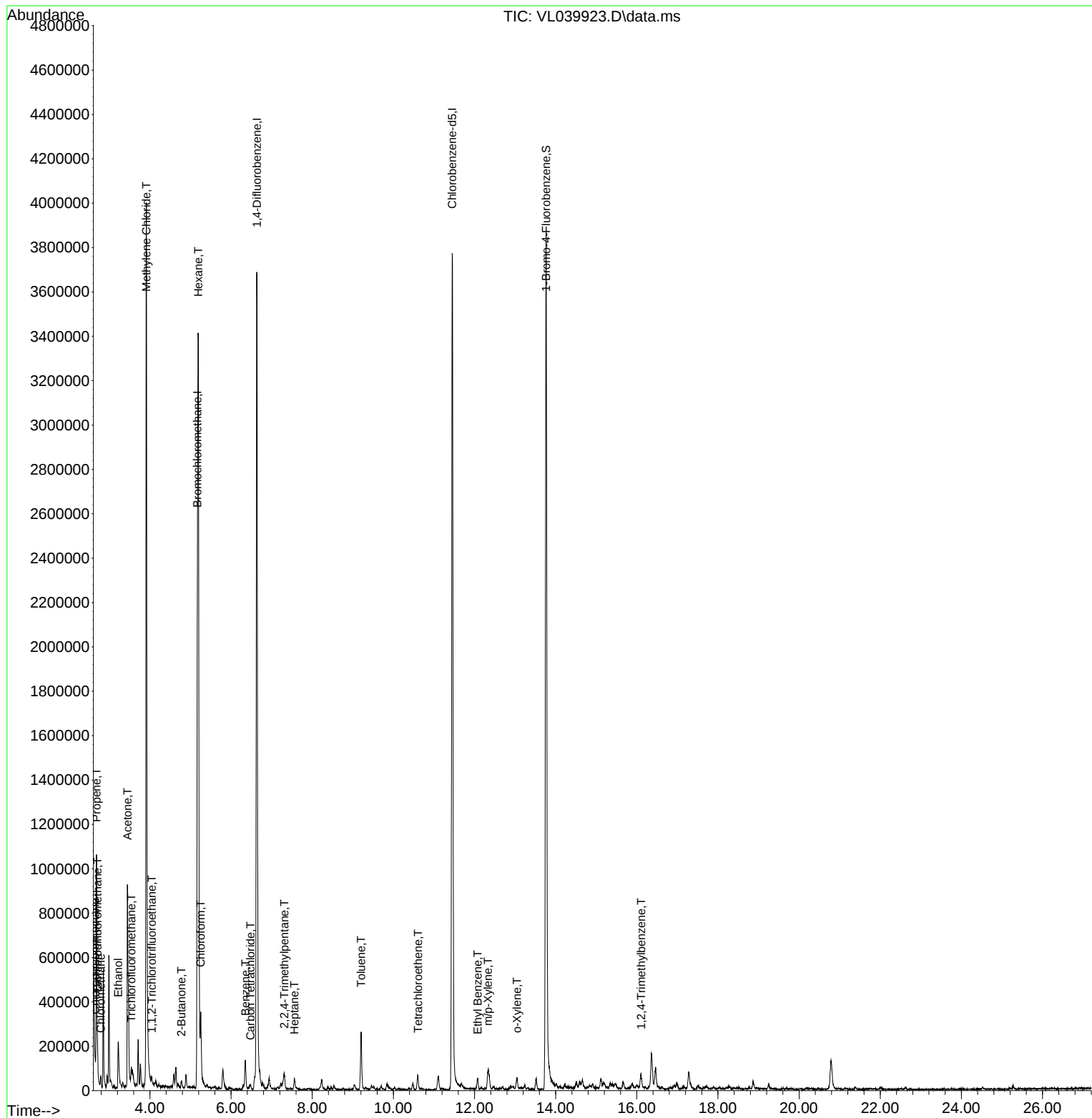
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
Data File : VL039923.D
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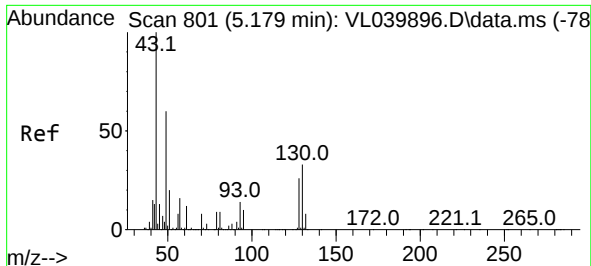
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 23 04:50:44 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Nov 22 03:45:31 2022
Response via : Initial Calibration

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Reviewed By : Semsettin Yesilyurt 11/23/2022
Supervised By : Mahesh Dadoda 11/24/2022





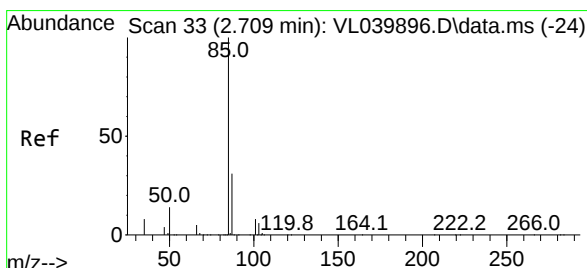
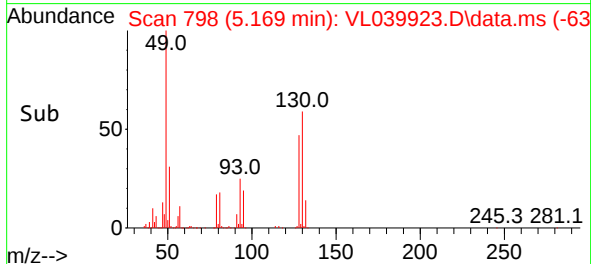
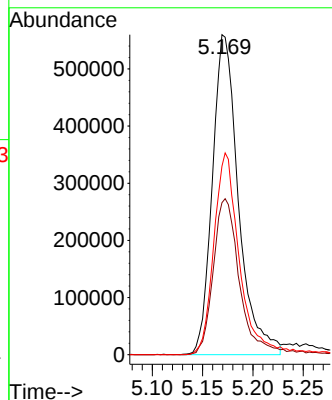
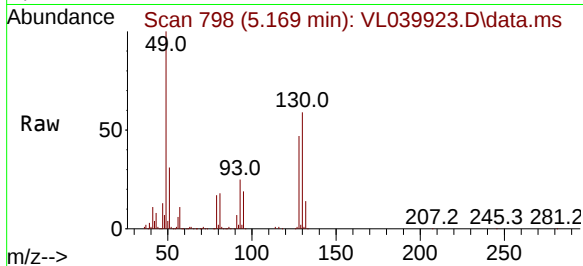
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 101217
Ion Ratio Lower Upper
49 100
128 50.2 22.1 66.3
130 62.9 27.7 83.1

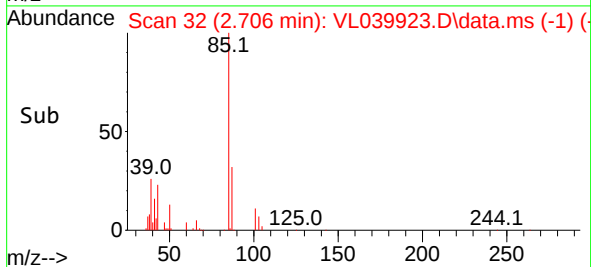
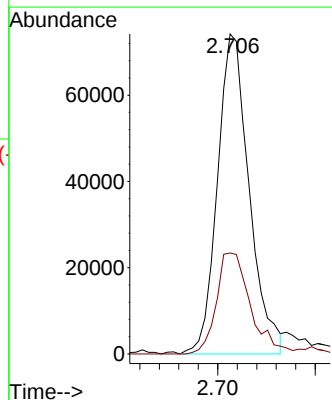
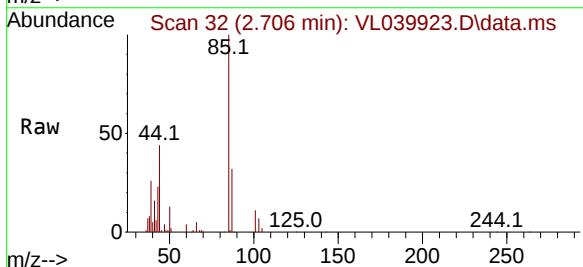
Manual Integrations
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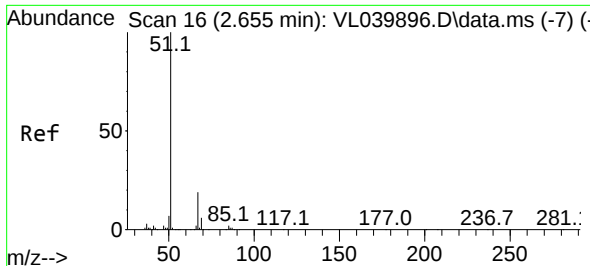
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#2
Dichlorodifluoromethane
Concen: 0.579 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

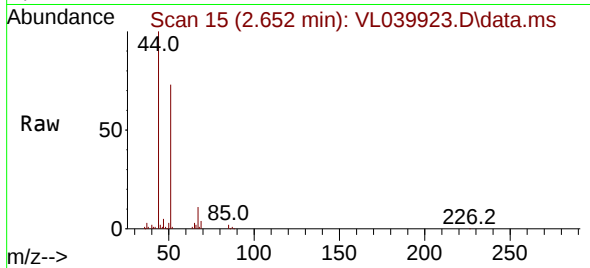
Tgt Ion: 85 Resp: 83881
Ion Ratio Lower Upper
85 100
87 31.6 25.0 37.4





#3
Chlorodifluoromethane
Concen: 0.371 ppbv m
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

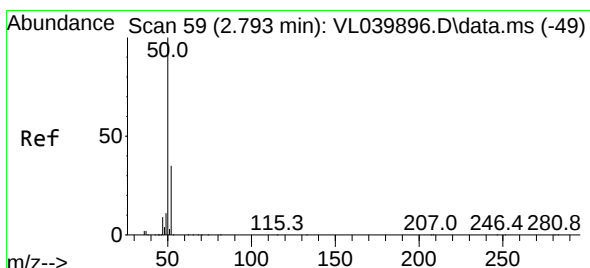
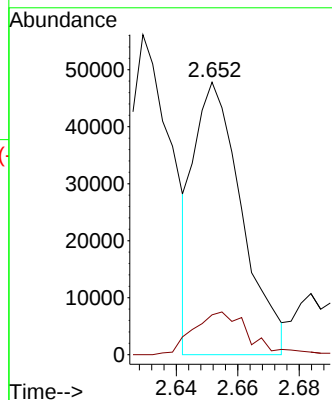
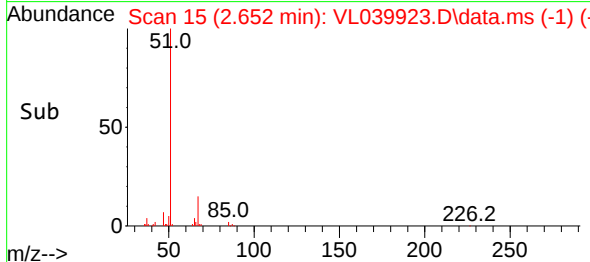
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 51828
Ion Ratio Lower Upper
51 100
67 19.5 14.2 21.4

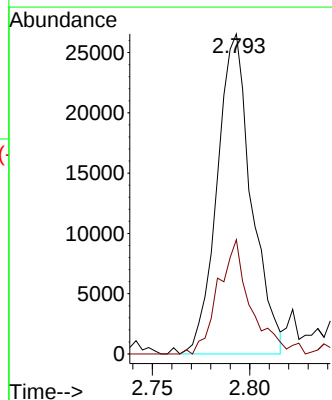
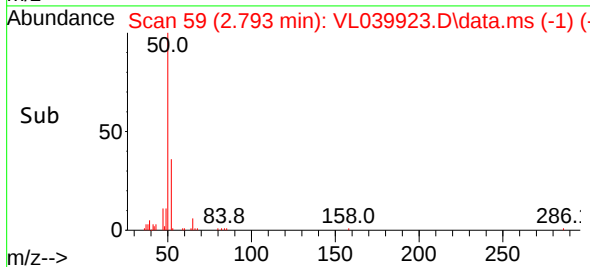
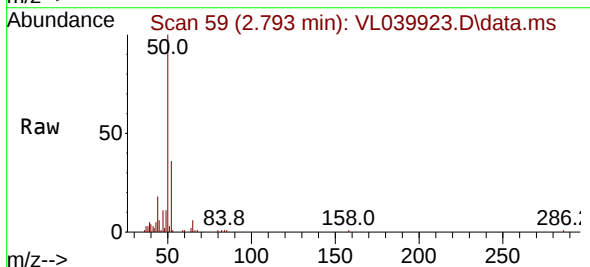
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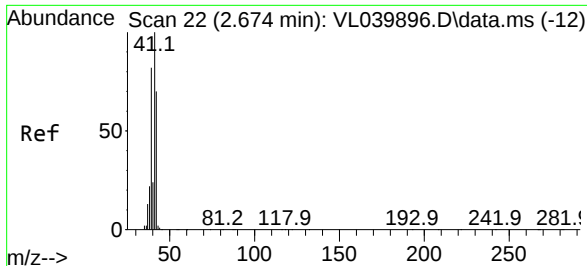
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#4
Chloromethane
Concen: 0.365 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

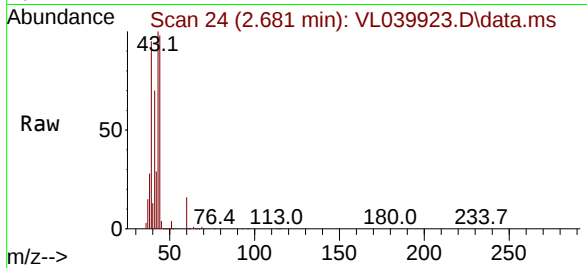
Tgt Ion: 50 Resp: 32565
Ion Ratio Lower Upper
50 100
52 35.7 27.8 41.8





#9
 Propene
 Concen: 3.276 ppbv m
 RT: 2.681 min Scan# 24
 Delta R.T. 0.019 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

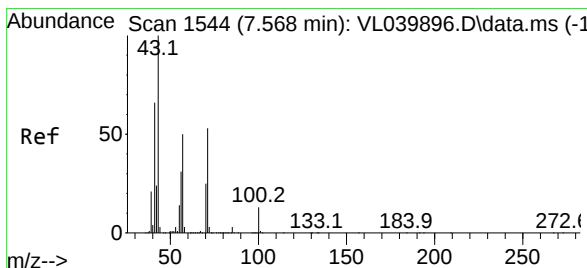
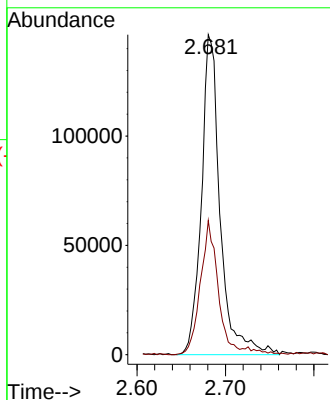
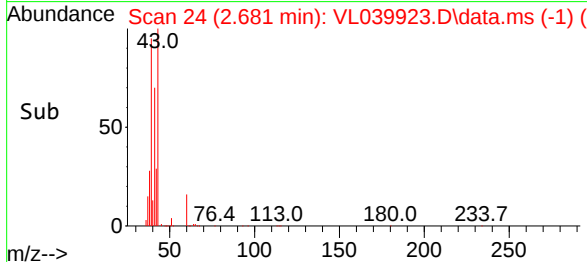
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



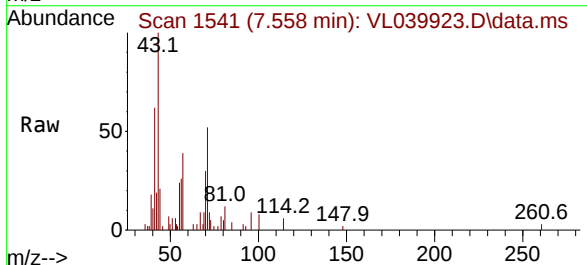
Tgt Ion: 41 Resp: 21553
 Ion Ratio Lower Upper
 41 100
 42 41.9 55.8 83.6

Manual Integrations
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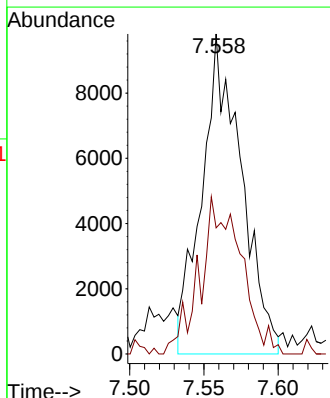
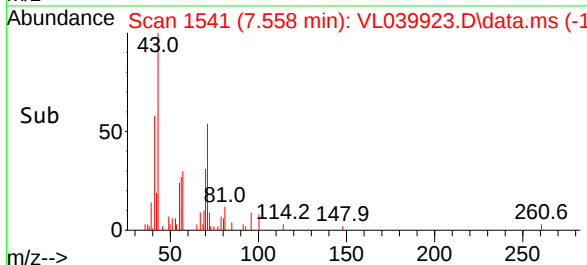
Reviewed By :Semsettin Yesilyurt 11/23/2022
 Supervised By :Mahesh Dadoda 11/24/2022

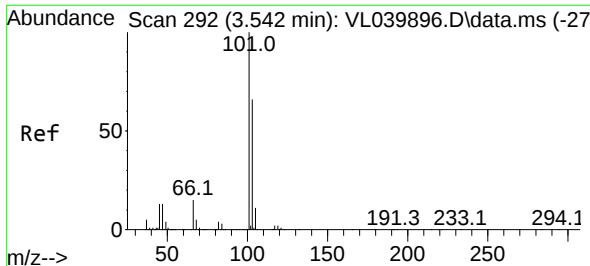


#10
 Heptane
 Concen: 0.115 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29



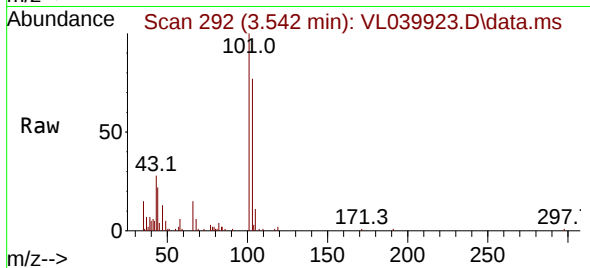
Tgt Ion: 43 Resp: 18191
 Ion Ratio Lower Upper
 43 100
 57 51.9 40.7 61.1





#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

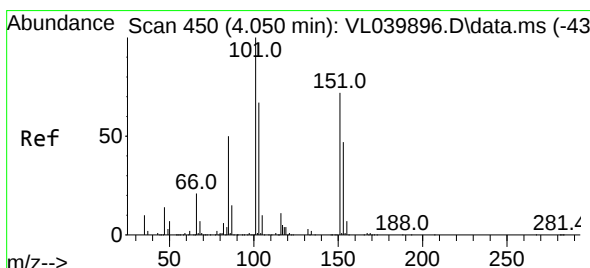
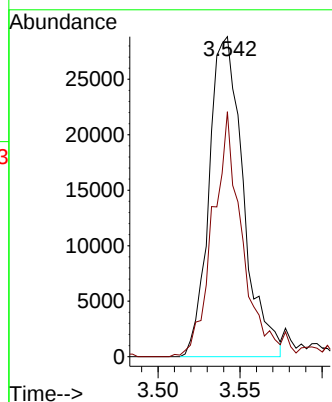
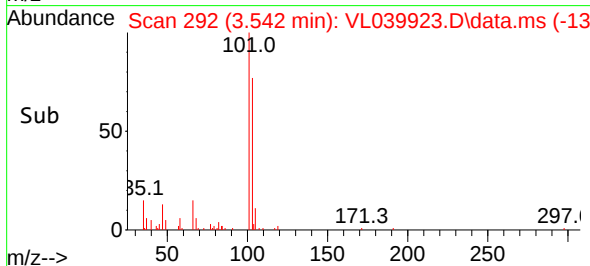
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



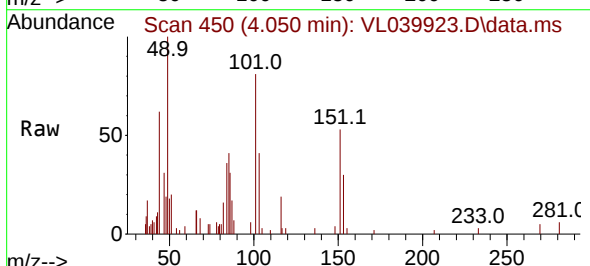
Tgt Ion:101 Resp: 41738
 Ion Ratio Lower Upper
 101 100
 103 76.0 52.6 78.8

Manual Integrations
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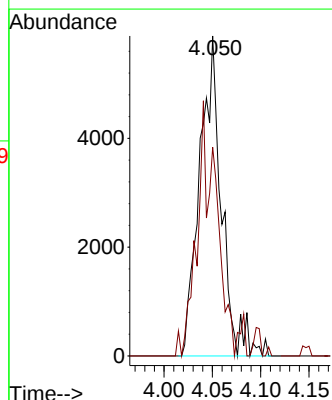
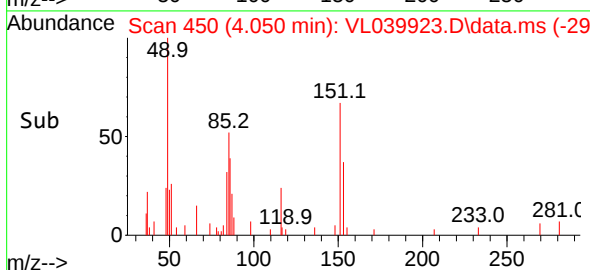
Reviewed By :Semsettin Yesilyurt 11/23/2022
 Supervised By :Mahesh Dadoda 11/24/2022

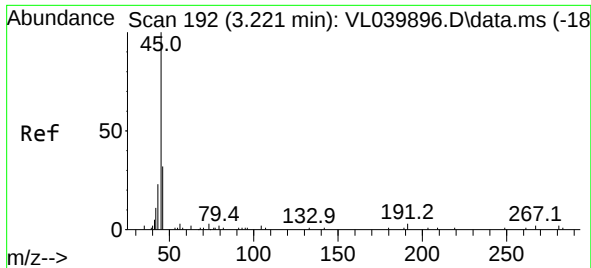


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.069 ppbv m
 RT: 4.050 min Scan# 450
 Delta R.T. 0.016 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29



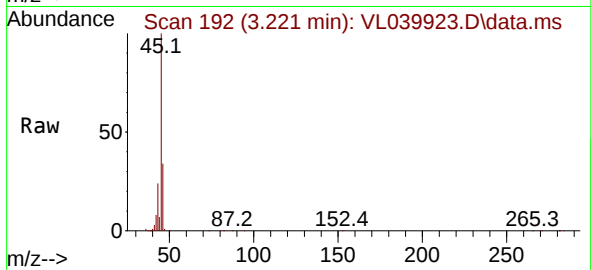
Tgt Ion:101 Resp: 9260
 Ion Ratio Lower Upper
 101 100
 151 69.6 59.6 89.4





#13
 Ethanol
 Concen: 47.348 ppbv
 RT: 3.221 min Scan# 192
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29

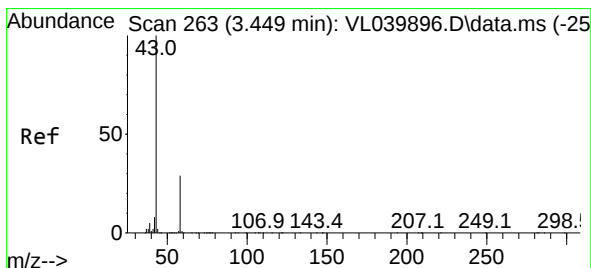
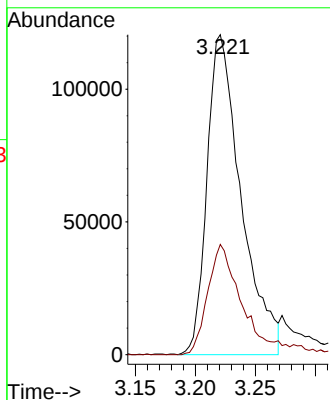
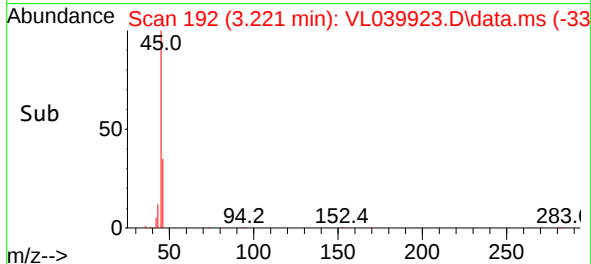
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



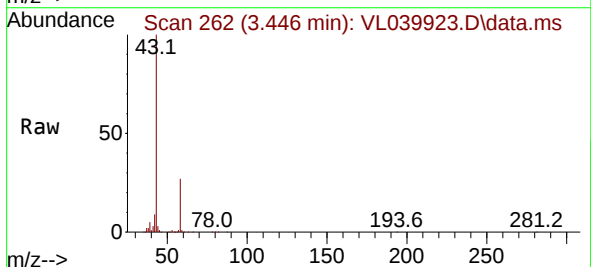
Tgt Ion: 45 Resp: 237834
 Ion Ratio Lower Upper
 45 100
 46 36.5 14.6 58.2

Manual Integrations
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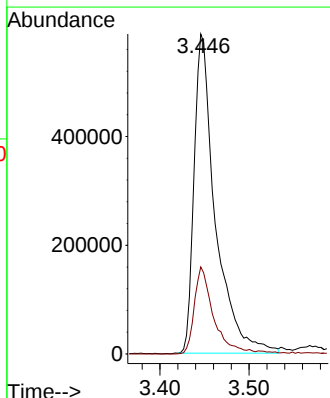
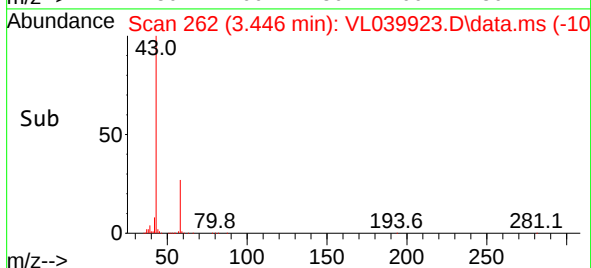
Reviewed By :Semsettin Yesilyurt 11/23/2022
 Supervised By :Mahesh Dadoda 11/24/2022

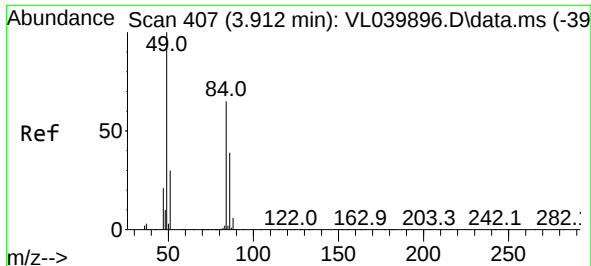


#15
 Acetone
 Concen: 7.272 ppbv
 RT: 3.446 min Scan# 262
 Delta R.T. 0.013 min
 Lab File: VL039923.D
 Acq: 22 Nov 2022 19:29



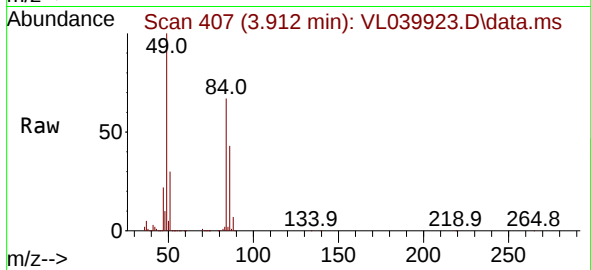
Tgt Ion: 43 Resp: 976280
 Ion Ratio Lower Upper
 43 100
 58 26.0 22.9 34.3





#20
Methylene Chloride
Concen: 21.048 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

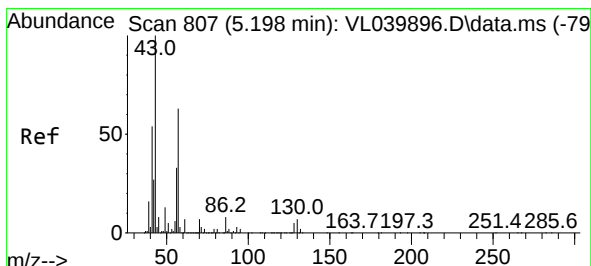
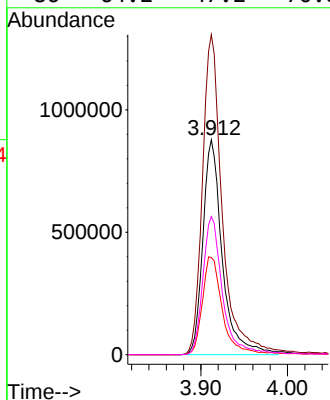
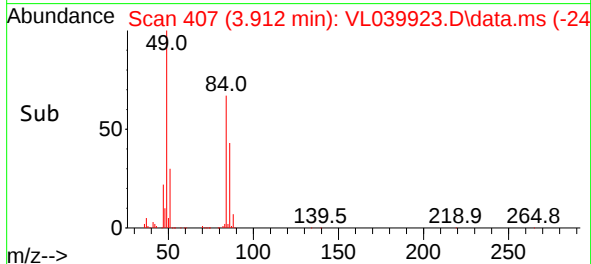
Instrument :
MSVOA_L
ClientSampleId :
IA1



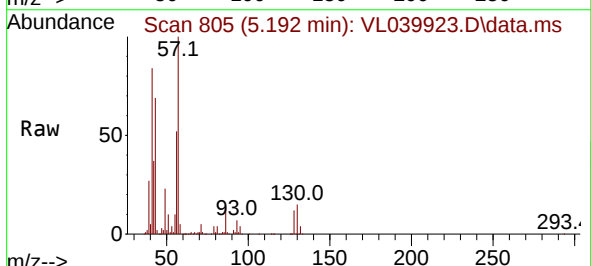
Tgt Ion: 84 Resp: 1369030
Ion Ratio Lower Upper
84 100
49 148.9 122.2 183.4
51 45.1 36.3 54.5
86 64.2 47.2 70.8

Manual Integrations
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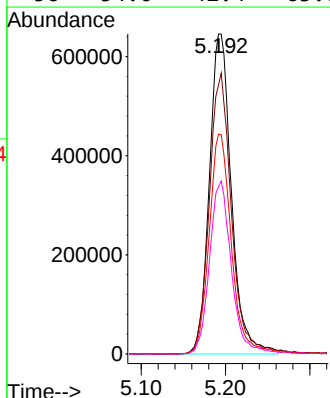
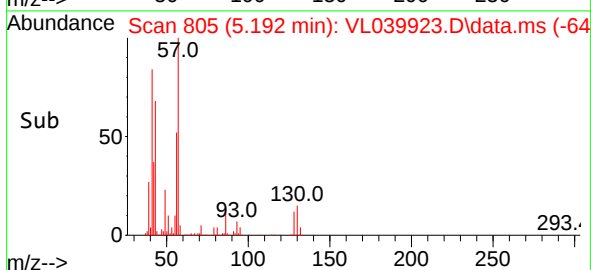
Reviewed By :Semsettin Yesilyurt 11/23/2022
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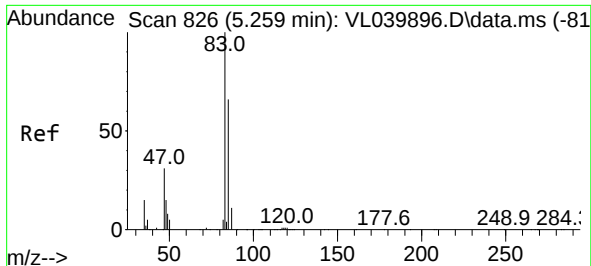


#26
Hexane
Concen: 10.899 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29



Tgt Ion: 57 Resp: 1173544
Ion Ratio Lower Upper
57 100
41 88.9 72.3 108.5
43 69.8 188.7 283.1#
56 54.0 42.4 63.6





#29

Chloroform

Concen: 1.162 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 166350

Ion Ratio Lower Upper

83 100

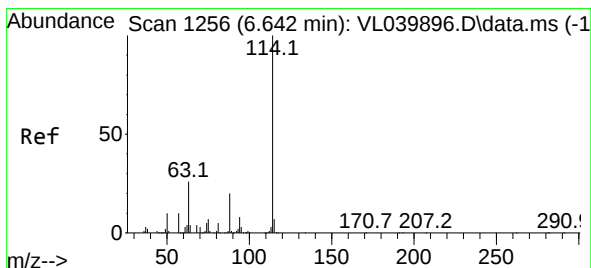
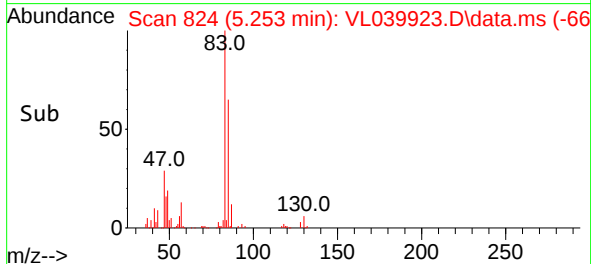
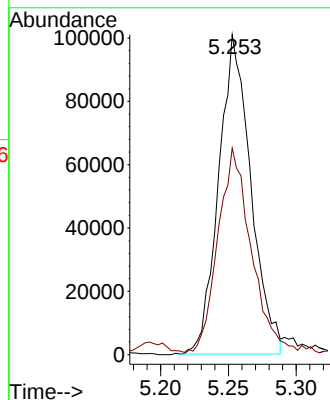
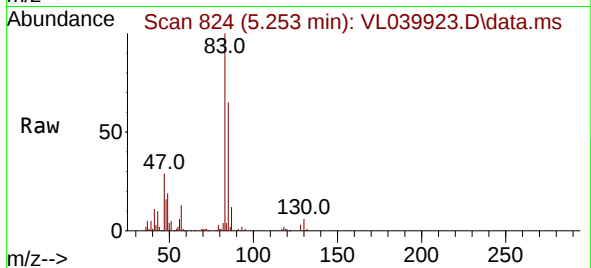
85 63.5 52.4 78.6

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 11/24/2022



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. 0.016 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

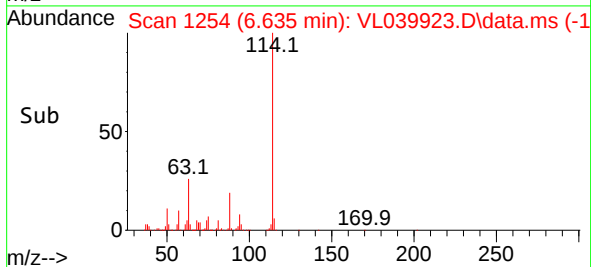
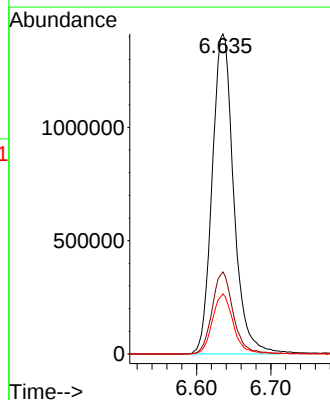
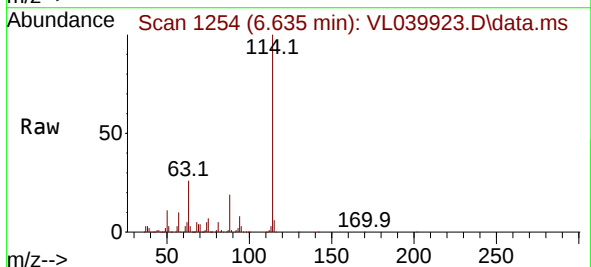
Tgt Ion:114 Resp: 2837830

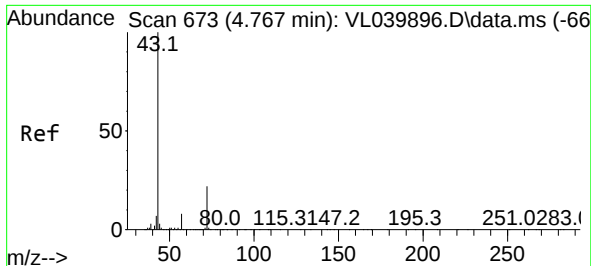
Ion Ratio Lower Upper

114 100

63 25.4 21.4 32.0

88 18.3 15.3 22.9





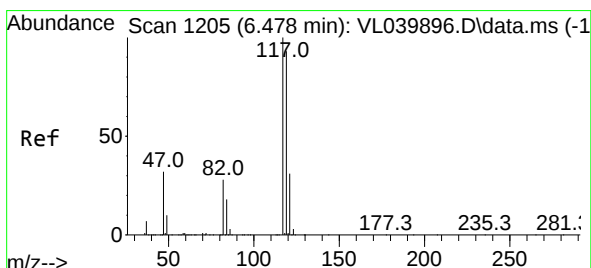
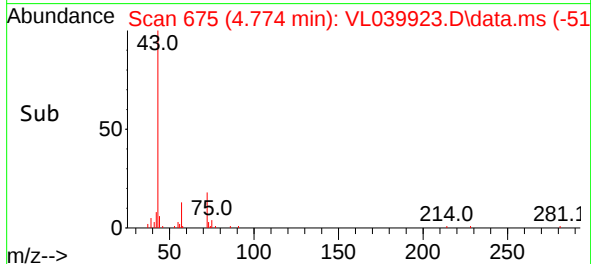
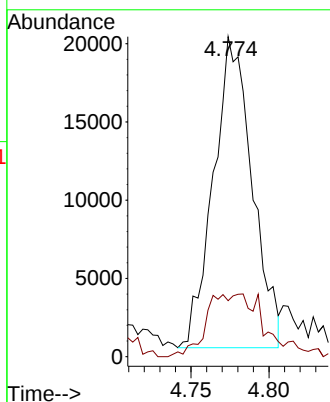
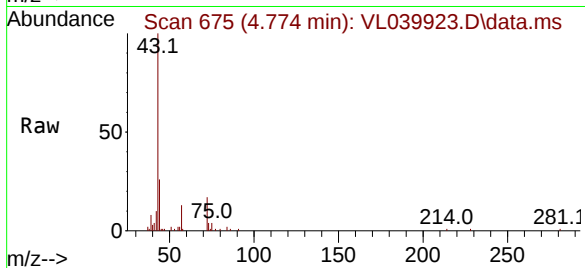
#34
2-Butanone
Concen: 0.253 ppbv
RT: 4.774 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 3440
Ion Ratio Lower Upper
43 100
72 30.9 17.4 26.2

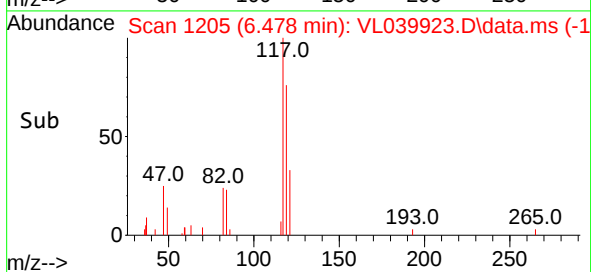
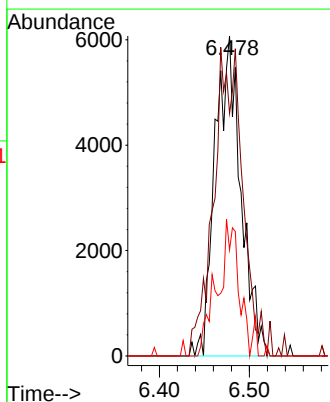
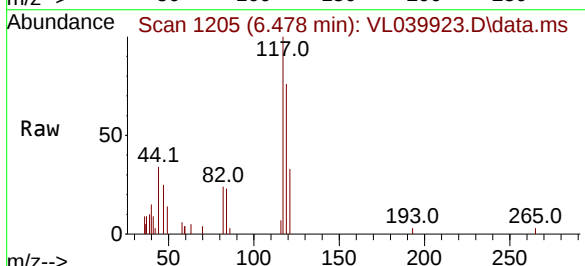
Manual Integrations
APPROVED

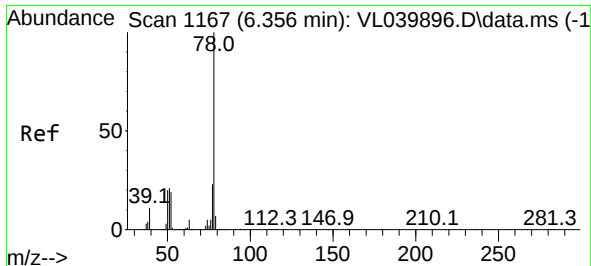
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.478 min Scan# 1205
Delta R.T. 0.016 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

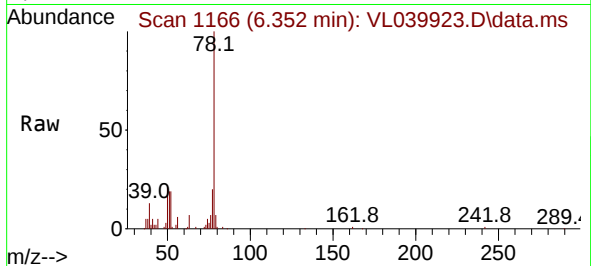
Tgt Ion:117 Resp: 12169
Ion Ratio Lower Upper
117 100
119 75.8 74.7 112.1
121 33.2 24.5 36.7





#36
Benzene
Concen: 0.413 ppbv
RT: 6.352 min Scan# 1167
Delta R.T. 0.016 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

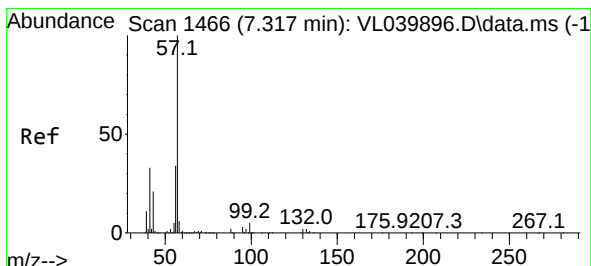
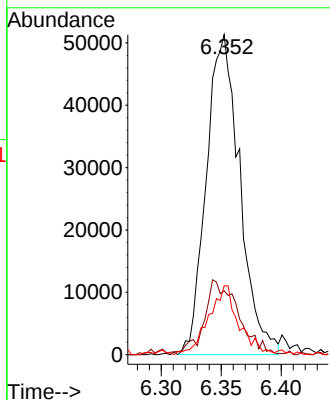
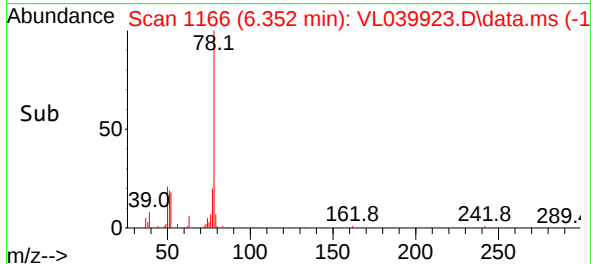
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 78 Resp: 99570
Ion Ratio Lower Upper
78 100
77 19.7 18.2 27.2
50 20.6 15.8 23.8

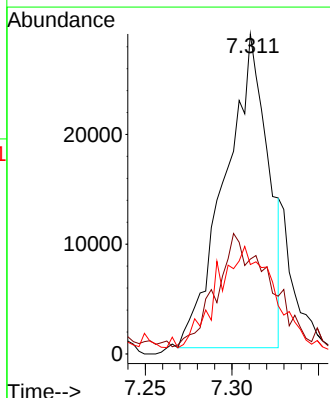
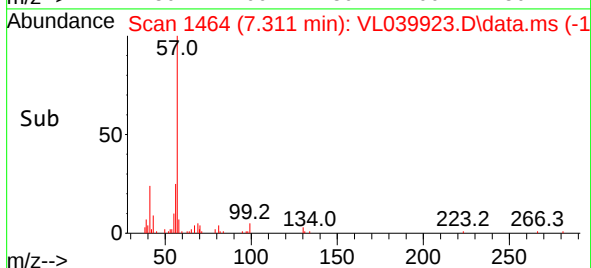
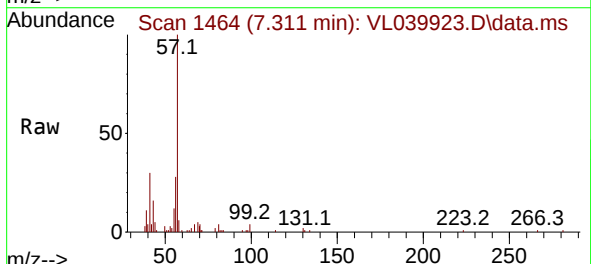
Manual Integrations
APPROVED

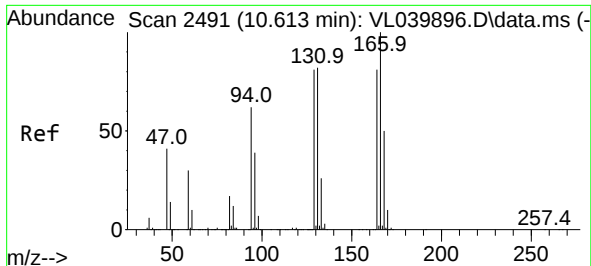
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#44
2,2,4-Trimethylpentane
Concen: 0.123 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.016 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

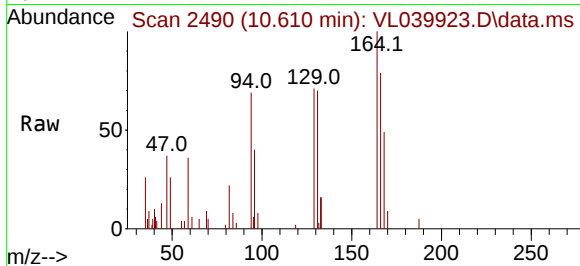
Tgt Ion: 57 Resp: 49337
Ion Ratio Lower Upper
57 100
41 55.4 26.2 39.2#
56 52.6 25.5 38.3#





#52
Tetrachloroethene
Concen: 0.154 ppbv m
RT: 10.610 min Scan# 2491
Delta R.T. 0.022 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

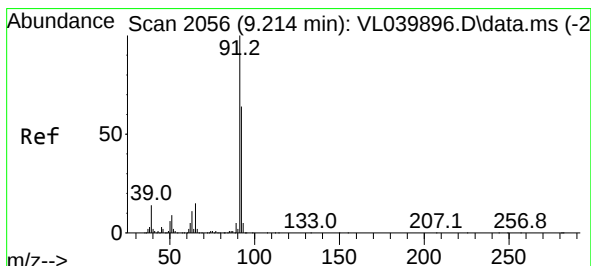
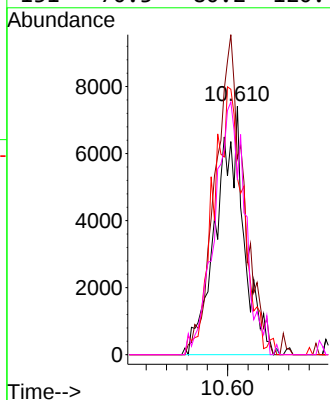
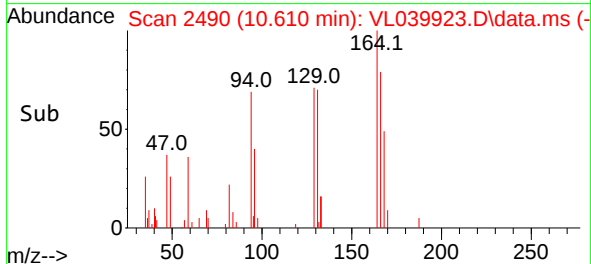
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 13940
Ion Ratio Lower Upper
164 100
166 78.9 98.3 147.5
129 71.1 79.7 119.5
131 70.3 80.2 120.4

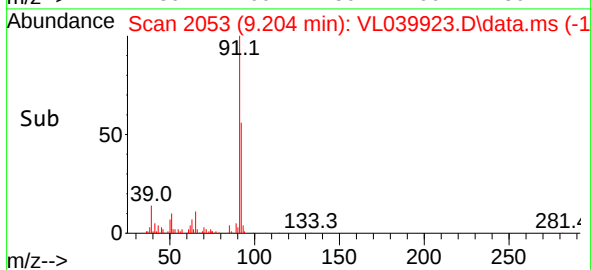
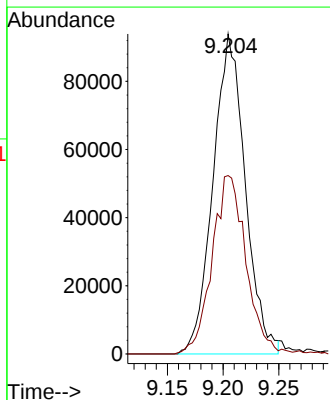
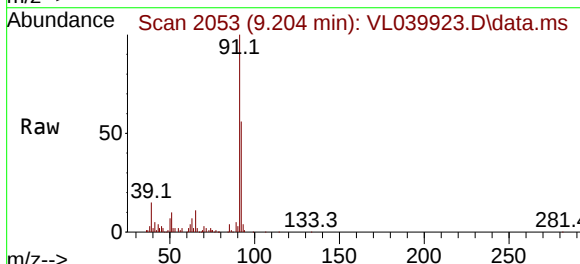
Manual Integrations
APPROVED

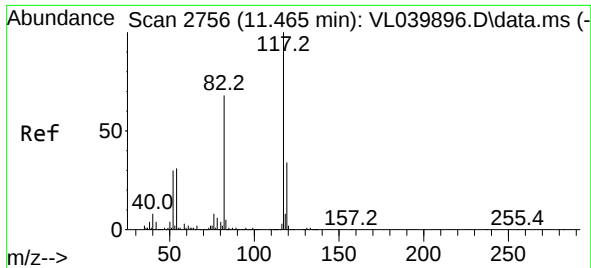
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#53
Toluene
Concen: 0.686 ppbv
RT: 9.204 min Scan# 2053
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

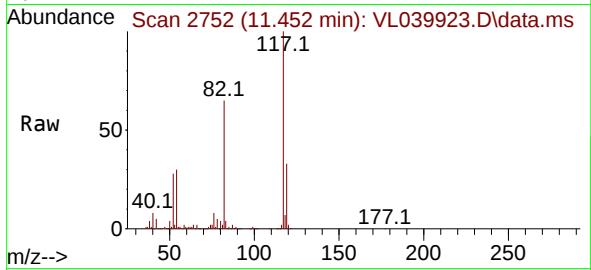
Tgt Ion: 91 Resp: 188557
Ion Ratio Lower Upper
91 100
92 59.2 49.8 74.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

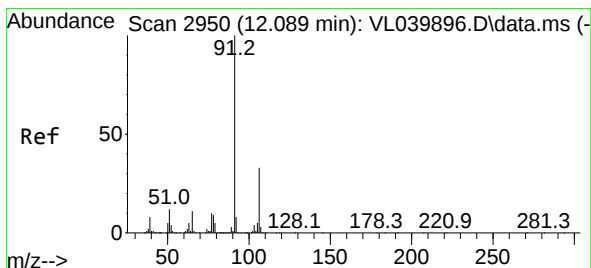
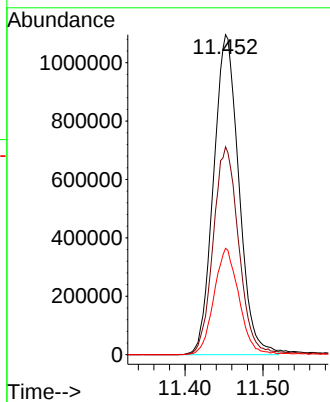
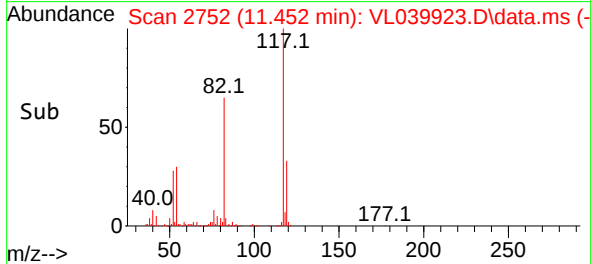
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 248080
Ion Ratio Lower Upper
117 100
82 66.1 52.3 78.5
119 32.9 25.7 38.5

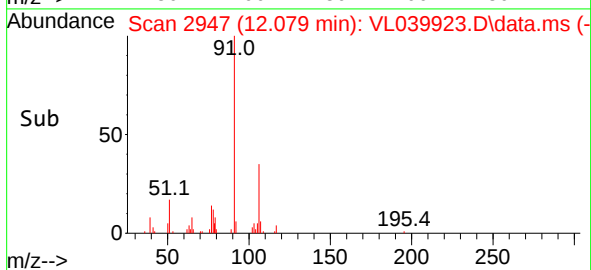
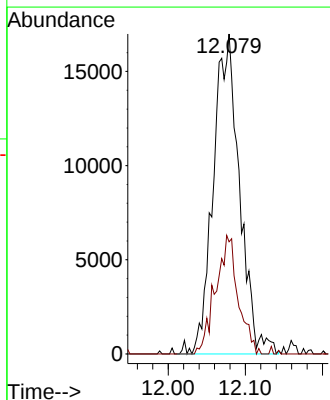
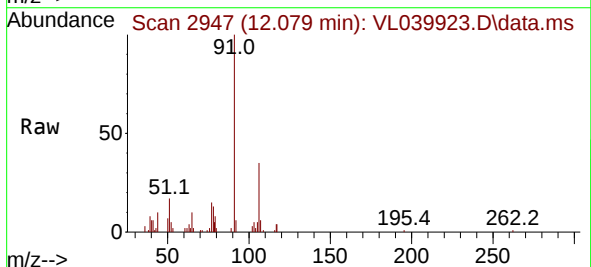
Manual Integrations
APPROVED

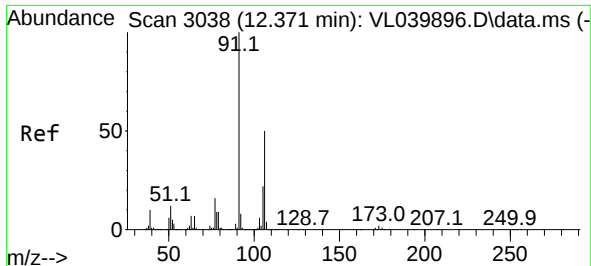
Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#58
Ethyl Benzene
Concen: 0.119 ppbv m
RT: 12.079 min Scan# 2947
Delta R.T. 0.016 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

Tgt Ion: 91 Resp: 40119
Ion Ratio Lower Upper
91 100
106 35.1 26.1 39.1





#59

m/p-Xylene

Concen: 0.352 ppbv m

RT: 12.330 min Scan# 3038

Delta R.T. -0.016 min

Lab File: VL039923.D

Acq: 22 Nov 2022 19:29

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 9912

Ion Ratio Lower Upper

91 100

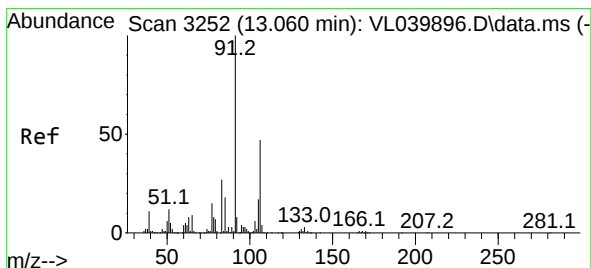
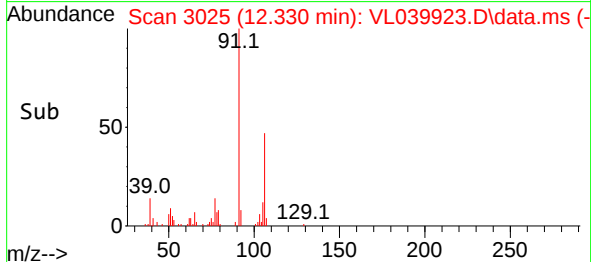
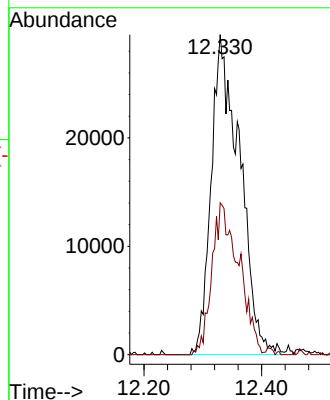
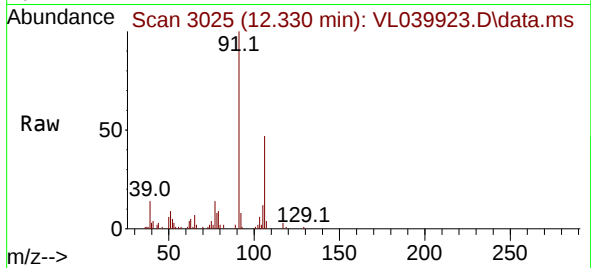
106 0.0 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/23/2022

Supervised By :Mahesh Dadoda 11/24/2022



#60

o-Xylene

Concen: 0.116 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.010 min

Lab File: VL039923.D

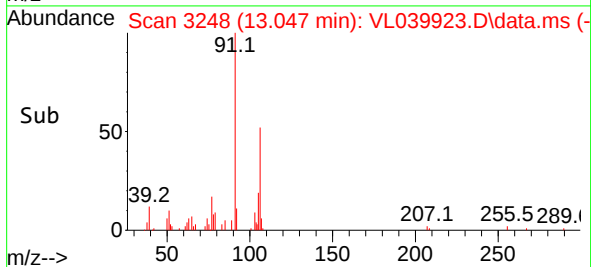
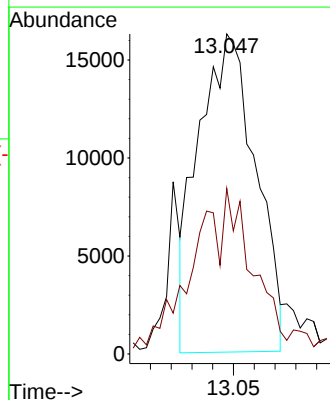
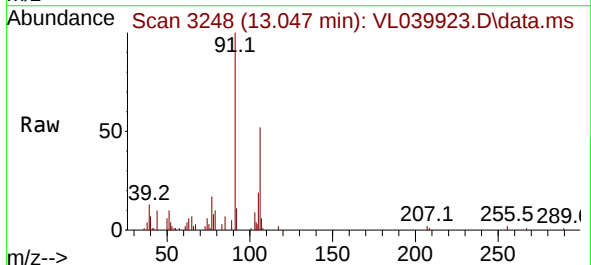
Acq: 22 Nov 2022 19:29

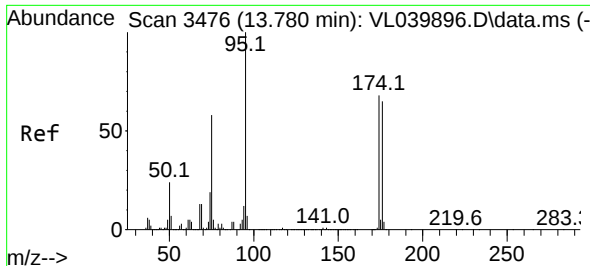
Tgt Ion: 91 Resp: 31039

Ion Ratio Lower Upper

91 100

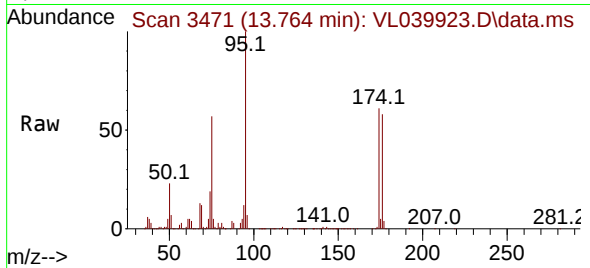
106 59.0 23.2 69.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.371 ppbv
RT: 13.764 min Scan# 3476
Delta R.T. 0.010 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29

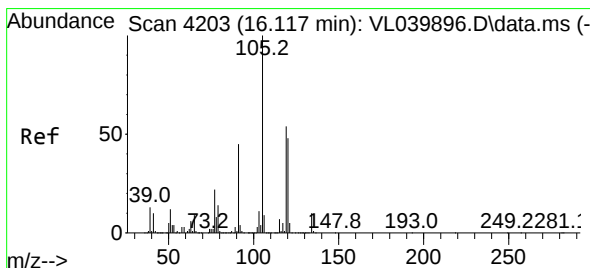
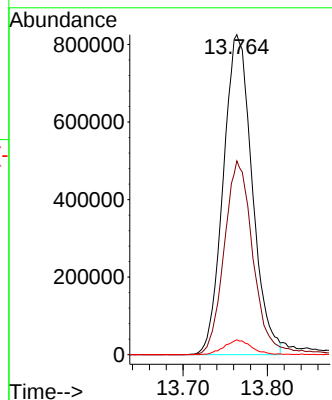
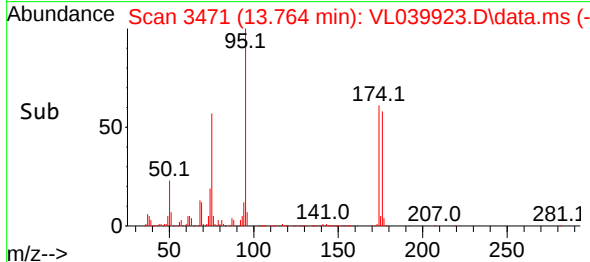
Instrument :
MSVOA_L
ClientSampleId :
IA1



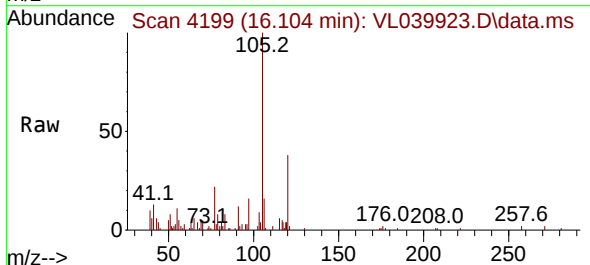
Tgt Ion: 95 Resp: 1965234
Ion Ratio Lower Upper
95 100
174 61.4 53.7 80.5
175 4.5 4.0 6.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/23/2022
Supervised By :Mahesh Dadoda 11/24/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.148 ppbv m
RT: 16.104 min Scan# 4199
Delta R.T. 0.013 min
Lab File: VL039923.D
Acq: 22 Nov 2022 19:29



Tgt Ion:105 Resp: 43407
Ion Ratio Lower Upper
105 100
120 37.8 38.7 58.1#
91 12.5 36.4 54.6#
77 22.2 17.4 26.0

