

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040931.D
 Acq On : 21 Dec 2023 15:54
 Operator : SY/MD
 Sample : 05813-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10323

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:08:02 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1113275	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	2782345	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2352271	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1728380	9.975	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.755	85	73563	0.347	ppbv	97
3) Chlorodifluoromethane	2.677	51	197291	1.178	ppbv #	67
9) Propene	2.723	41	122857	2.223	ppbv #	82
10) Heptane	7.565	43	176482m	1.284	ppbv	
11) Trichlorofluoromethane	3.575	101	36273	0.219	ppbv #	78
13) Ethanol	3.256	45	1486420	106.590	ppbv	95
15) Acetone	3.481	43	1386988	10.388	ppbv	94
19) Isopropyl Alcohol	3.594	45	8990729	129.046	ppbv #	98
20) Methylene Chloride	3.941	84	1048023	22.021	ppbv	96
25) Ethyl Acetate	5.208	43	1081217	4.673	ppbv #	81
26) Hexane	5.211	57	1324600	12.919	ppbv #	44
27) Carbon Disulfide	4.131	76	63331	0.456	ppbv #	95
28) Methyl tert-Butyl Ether	4.594	73	28145	0.296	ppbv	94
30) Cyclohexane	6.587	84	71868	0.841	ppbv	93
34) 2-Butanone	4.787	43	115887	0.787	ppbv	99
35) Carbon Tetrachloride	6.481	117	13820m	0.079	ppbv	
36) Benzene	6.356	78	205574	0.945	ppbv	96
44) 2,2,4-Trimethylpentane	7.314	57	376485	1.019	ppbv #	81
53) Toluene	9.198	91	743088	3.081	ppbv	99
58) Ethyl Benzene	12.053	91	175092m	0.580	ppbv	
59) m/p-Xylene	12.311	91	522587	2.033	ppbv #	100
60) o-Xylene	13.024	91	174251	0.720	ppbv	99
64) n-propylbenzene	14.892	120	12104m	0.134	ppbv	
72) 4-Ethyltoluene	15.163	105	55110	0.207	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.320	105	39291	0.171	ppbv	92
74) 1,2,4-Trimethylbenzene	16.076	105	166020m	0.650	ppbv	

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

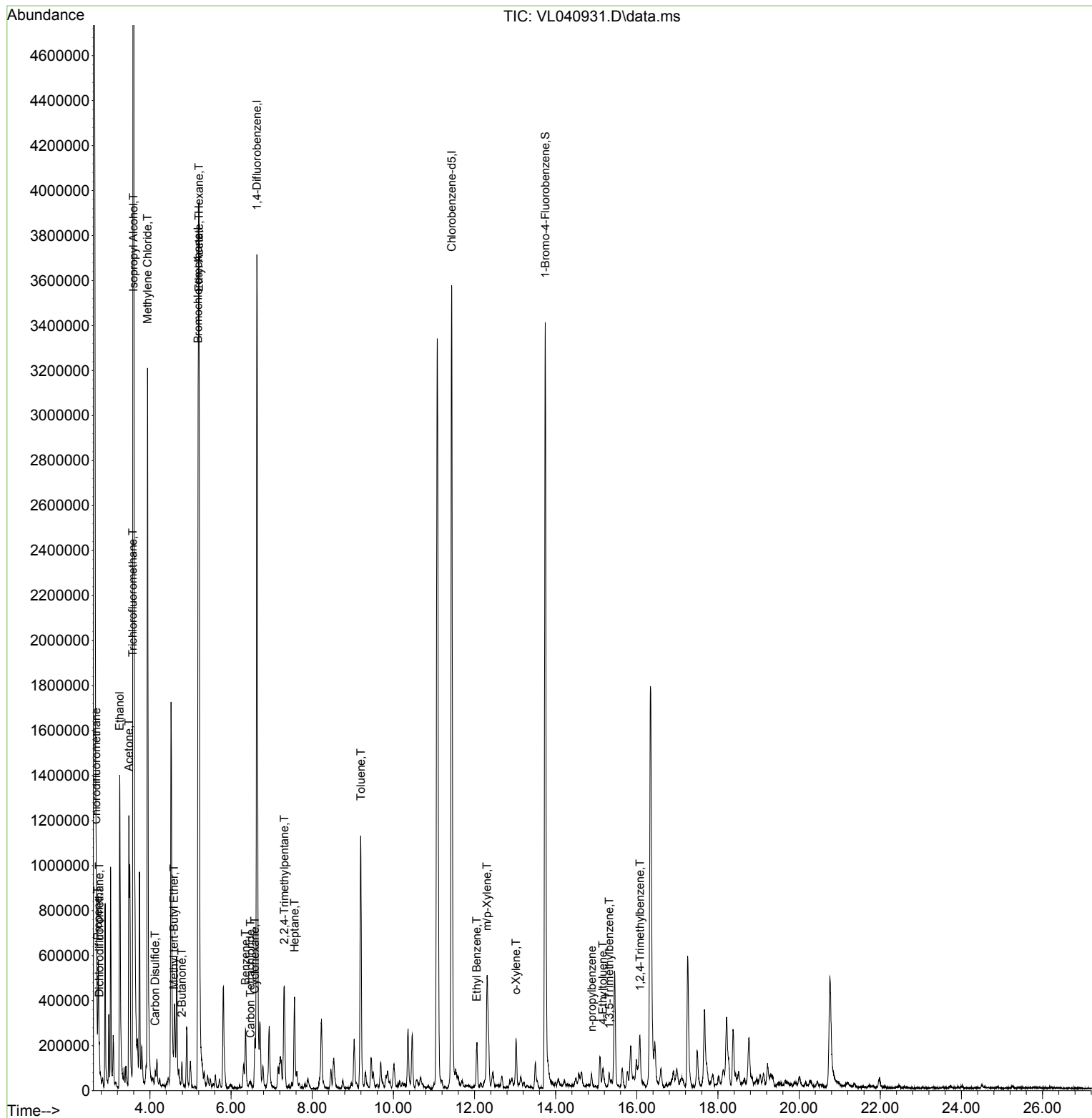
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040931.D
Acq On : 21 Dec 2023 15:54
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

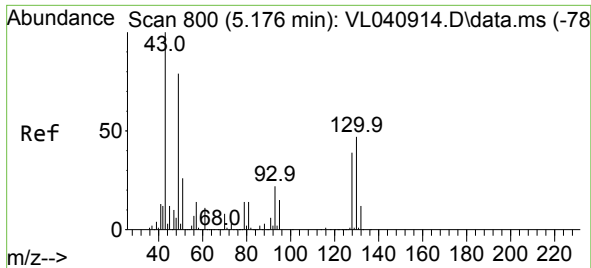
Instrument :
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10323

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023

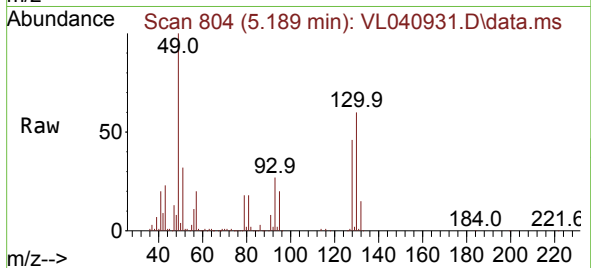
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

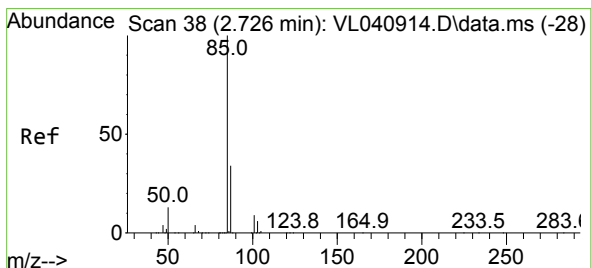
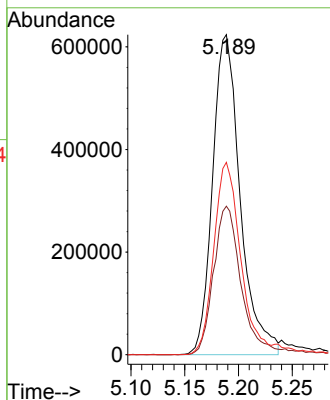
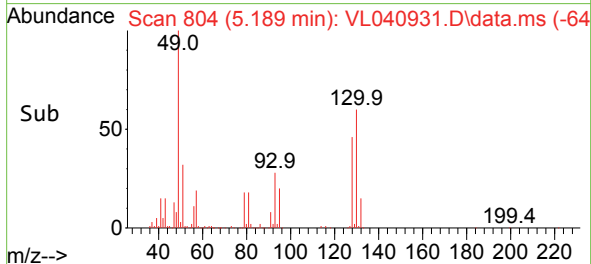
Instrument :
MSVOA_L
ClientSampleId :
10323



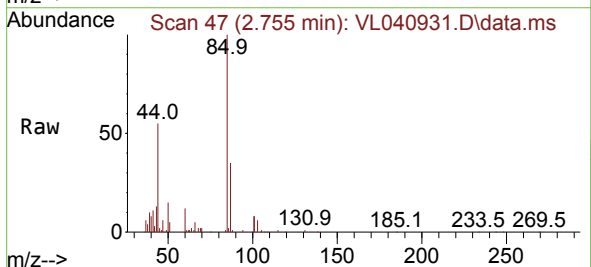
Tgt Ion: 49 Resp: 111327
Ion Ratio Lower Upper
49 100
128 48.3 23.8 71.2
130 62.5 30.1 90.5

Manual Integrations
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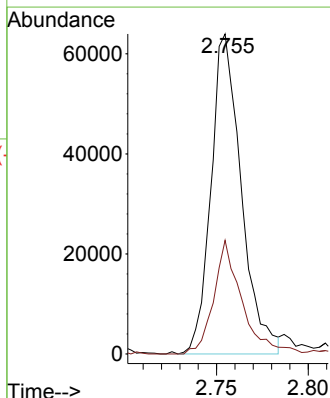
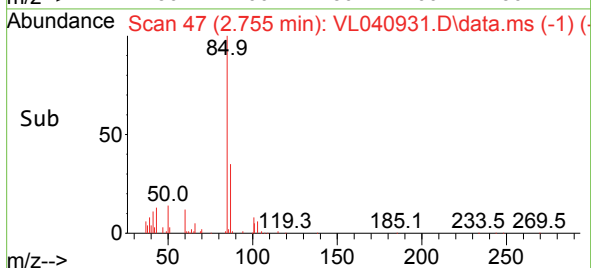
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

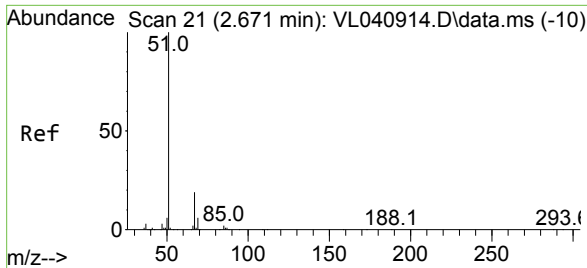


#2
Dichlorodifluoromethane
Concen: 0.347 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.029 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



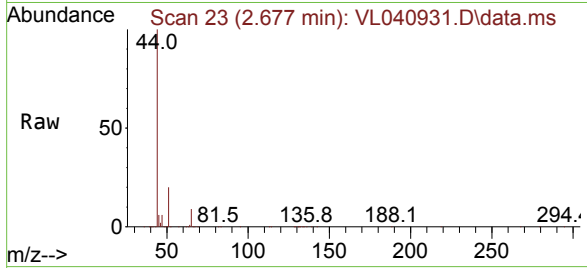
Tgt Ion: 85 Resp: 73563
Ion Ratio Lower Upper
85 100
87 35.5 27.0 40.6





#3
Chlorodifluoromethane
Concen: 1.178 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

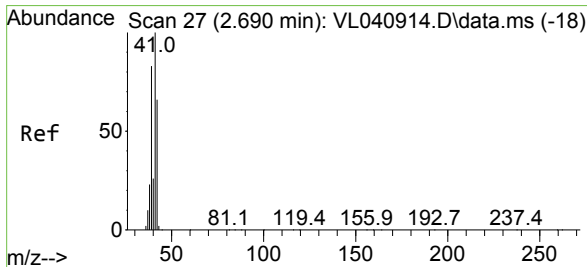
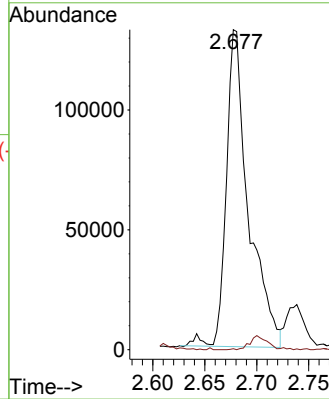
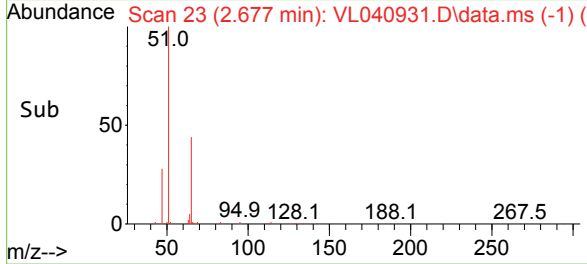
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ClientSampleId :
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Tgt Ion: 51 Resp: 19729
Ion Ratio Lower Upper
51 100
67 3.7 14.7 22.1

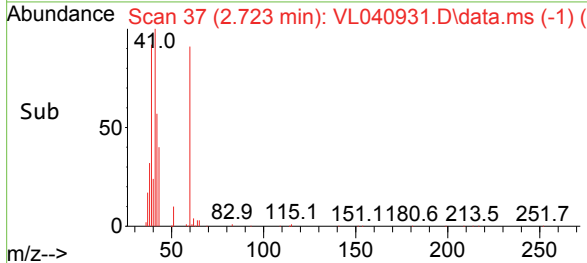
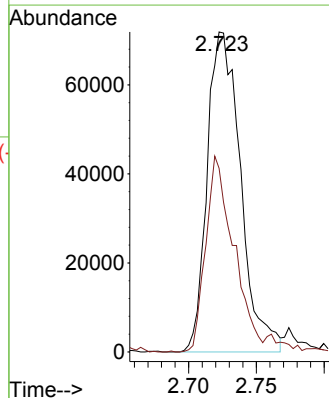
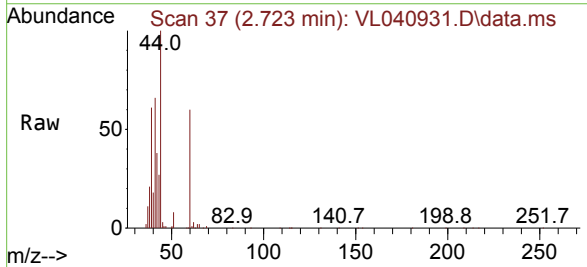
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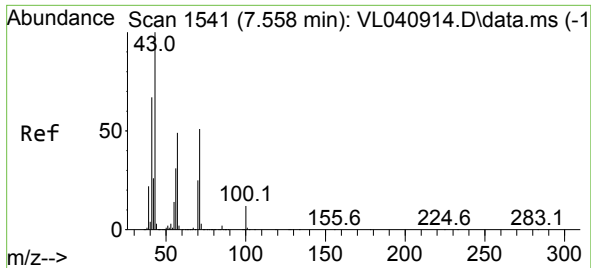
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#9
Propene
Concen: 2.223 ppbv
RT: 2.723 min Scan# 37
Delta R.T. 0.032 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

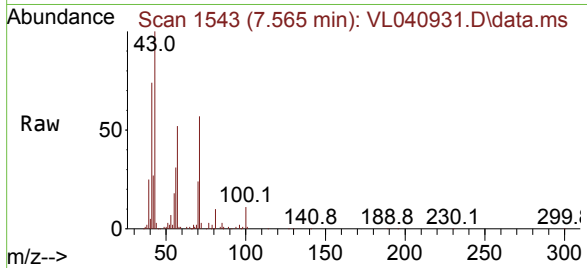
Tgt Ion: 41 Resp: 122857
Ion Ratio Lower Upper
41 100
42 54.9 55.8 83.6





#10
Heptane
Concen: 1.284 ppbv m
RT: 7.565 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

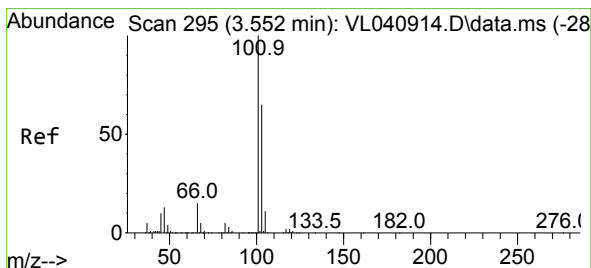
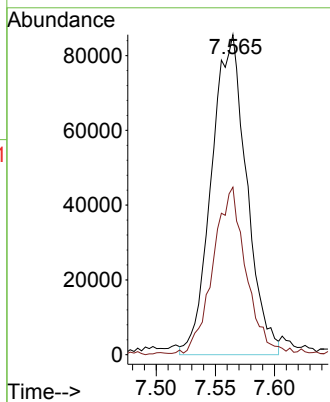
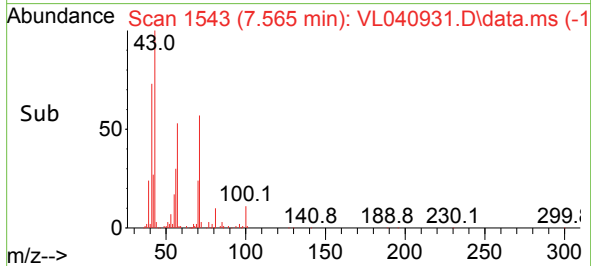
Instrument :
MSVOA_L
ClientSampleId :
10323



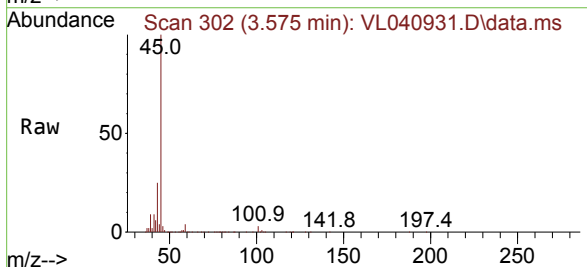
Tgt Ion: 43 Resp: 17648
Ion Ratio Lower Upper
43 100
57 50.8 39.3 58.9

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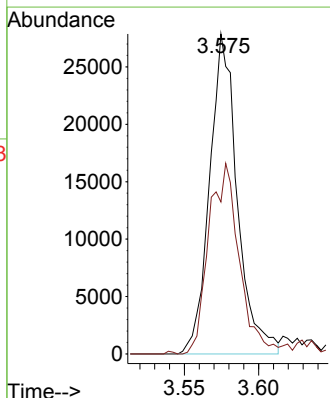
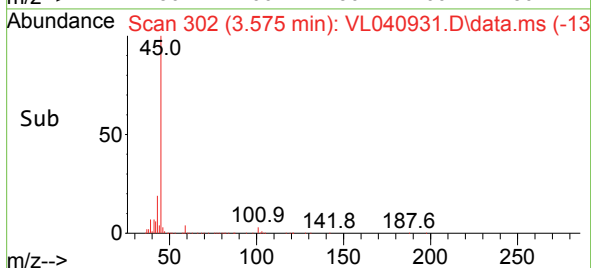
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

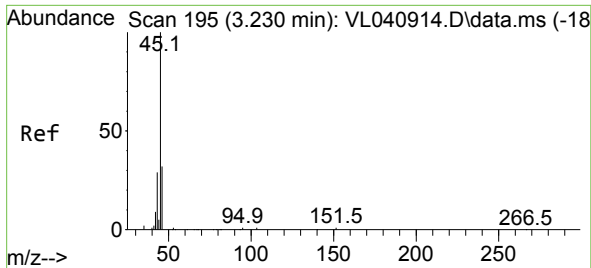


#11
Trichlorofluoromethane
Concen: 0.219 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.023 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



Tgt Ion:101 Resp: 36273
Ion Ratio Lower Upper
101 100
103 47.5 51.9 77.9#





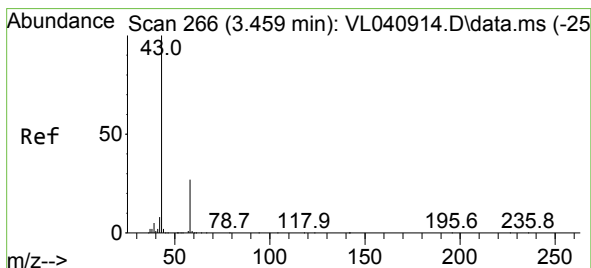
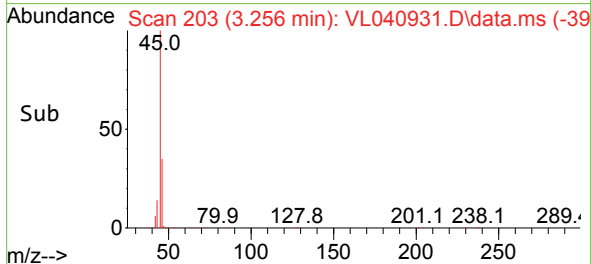
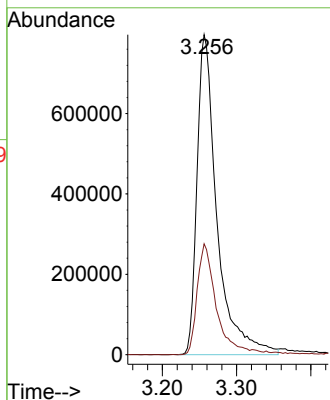
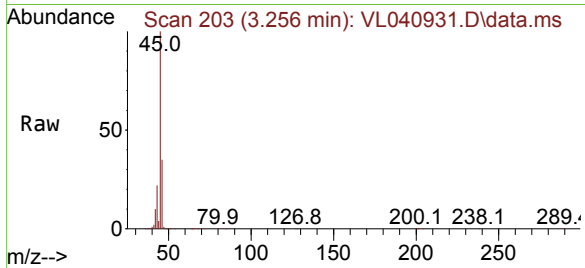
#13
Ethanol
Concen: 106.590 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.026 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
10323

Tgt Ion: 45 Resp: 1486420
Ion Ratio Lower Upper
45 100
46 34.6 15.0 60.0

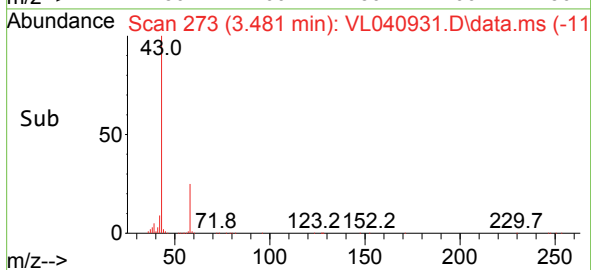
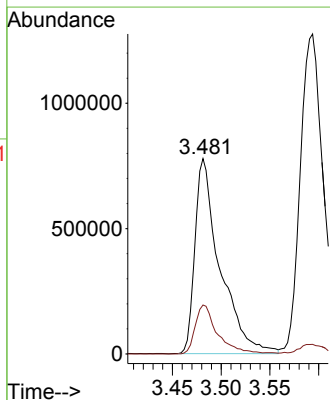
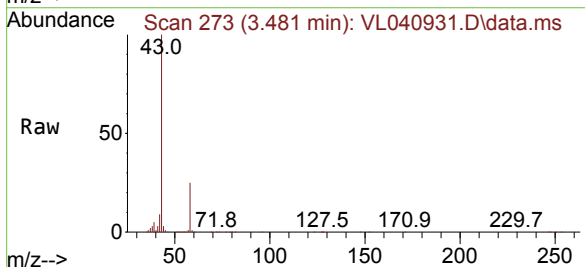
Manual Integrations
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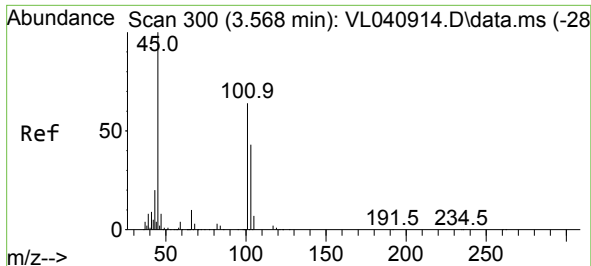
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#15
Acetone
Concen: 10.388 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.023 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

Tgt Ion: 43 Resp: 1386988
Ion Ratio Lower Upper
43 100
58 22.6 20.6 30.8





#19

Isopropyl Alcohol

Concen: 129.046 ppbv

RT: 3.594 min Scan# 300

Delta R.T. 0.026 min

Lab File: VL040931.D

Acq: 21 Dec 2023 15:54

Instrument :

MSVOA_L

ClientSampleId :

10323

Tgt Ion: 45 Resp: 8990729

Ion Ratio Lower Upper

45 100

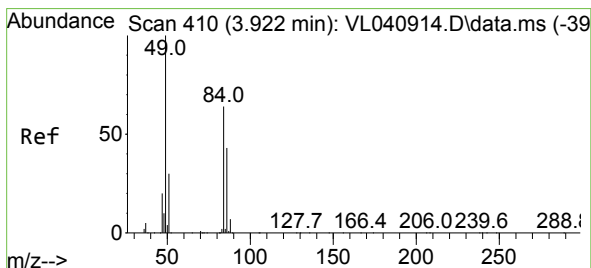
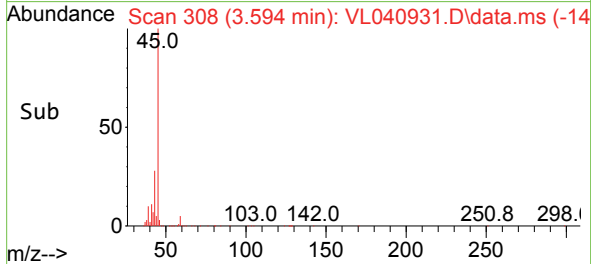
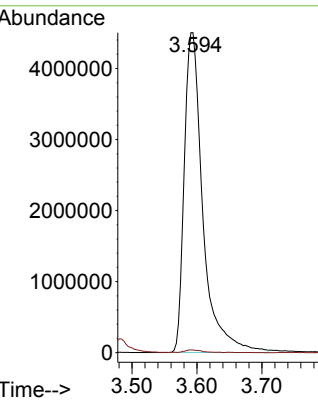
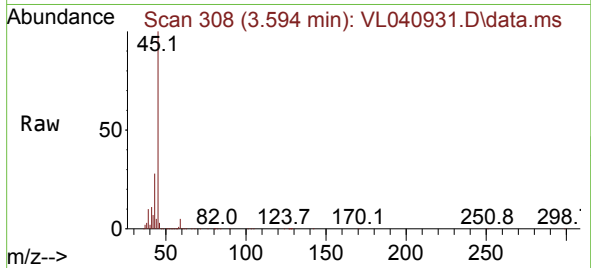
58 1.0 1.5 2.3

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 12/26/2023



#20

Methylene Chloride

Concen: 22.021 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.019 min

Lab File: VL040931.D

Acq: 21 Dec 2023 15:54

Tgt Ion: 84 Resp: 1048023

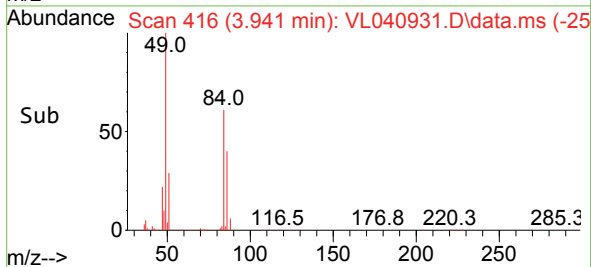
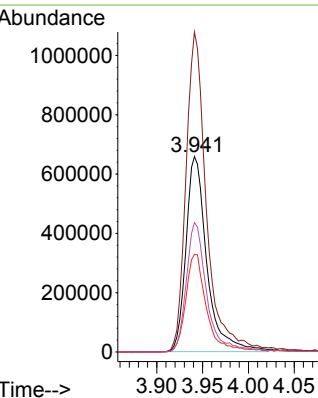
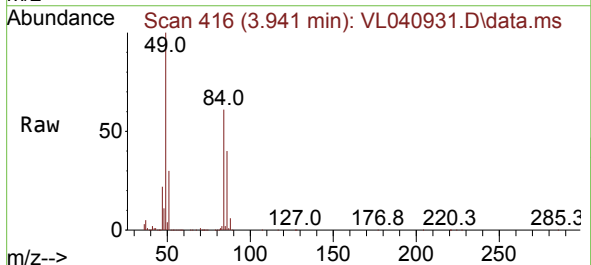
Ion Ratio Lower Upper

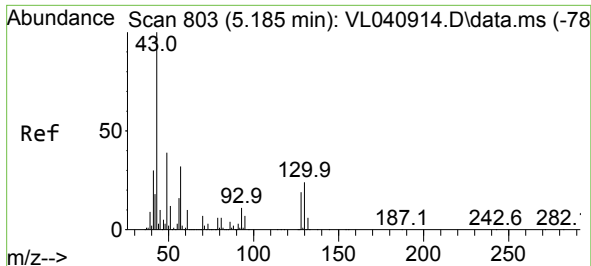
84 100

49 163.4 124.6 187.0

51 49.5 37.2 55.8

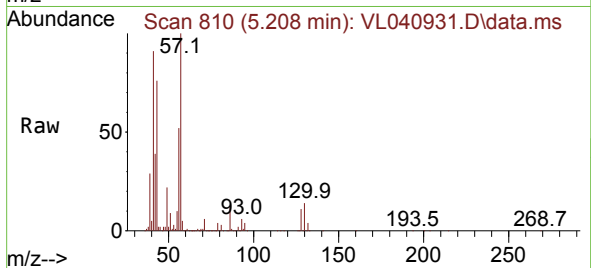
86 66.2 53.4 80.0





#25
Ethyl Acetate
Concen: 4.673 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.023 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

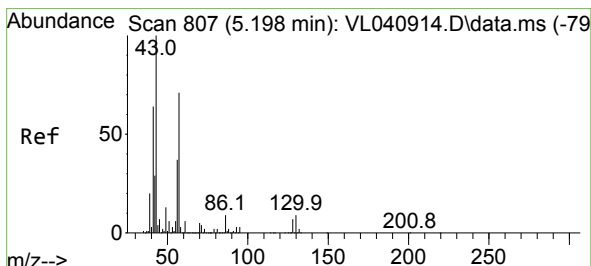
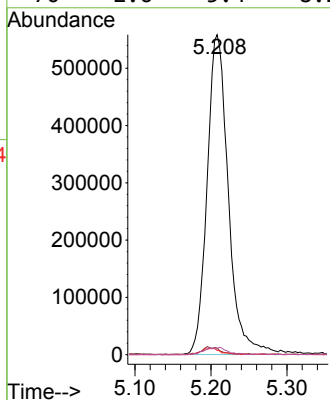
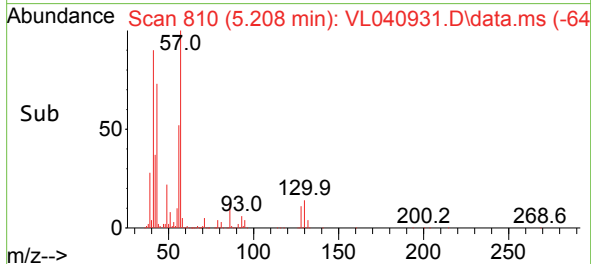
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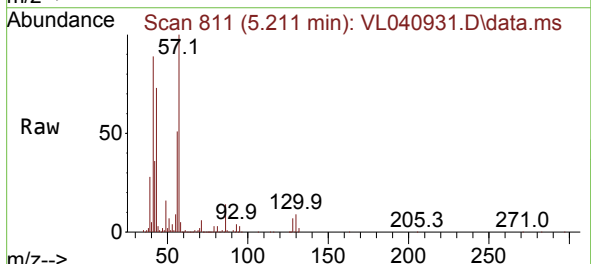
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Ion Ratio Lower Upper
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45 2.4 8.2 12.2
61 2.0 7.6 11.4
70 2.6 5.4 8.2

Manual Integrations
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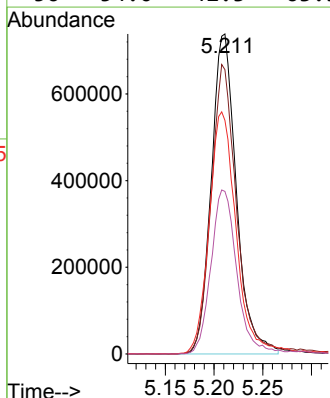
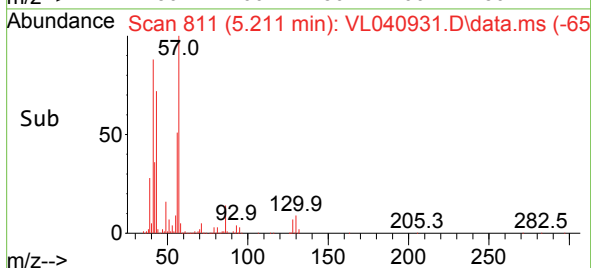
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

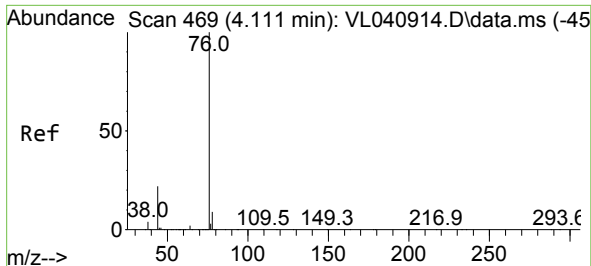


#26
Hexane
Concen: 12.919 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



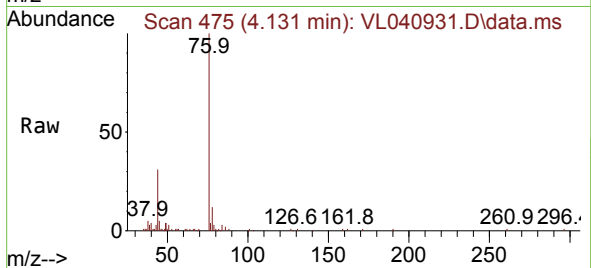
Tgt Ion: 57 Resp: 1324600
Ion Ratio Lower Upper
57 100
41 92.8 75.2 112.8
43 83.1 188.0 282.0
56 54.0 42.3 63.5





#27
Carbon Disulfide
Concen: 0.456 ppbv
RT: 4.131 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

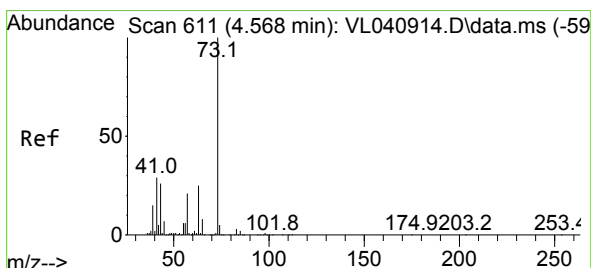
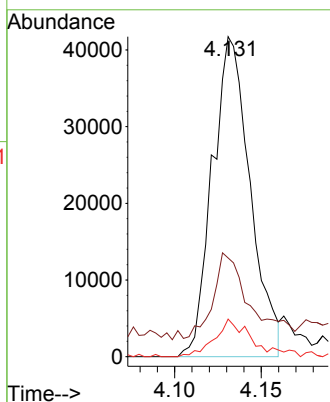
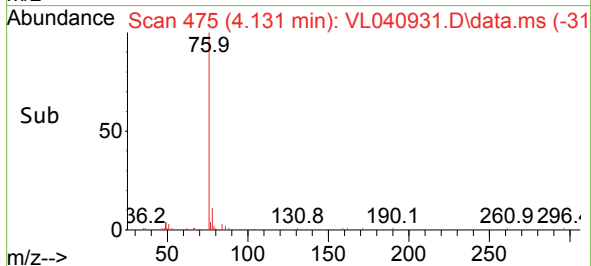
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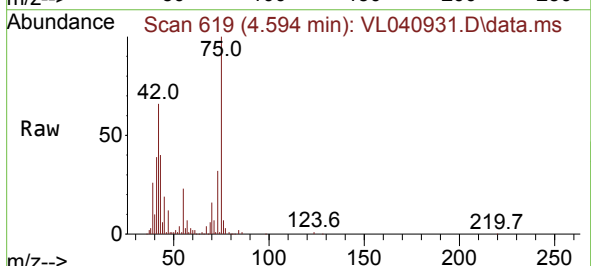
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Ion Ratio Lower Upper
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44 24.7 18.4 27.6
78 12.6 7.9 11.9

Manual Integrations
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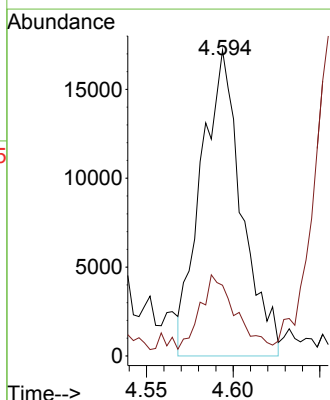
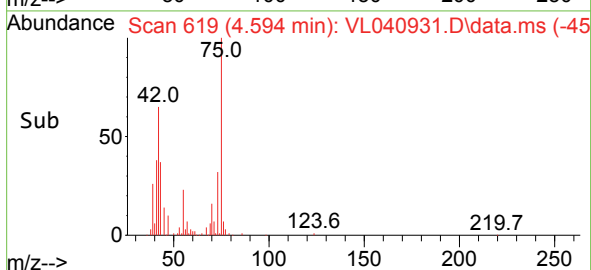
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

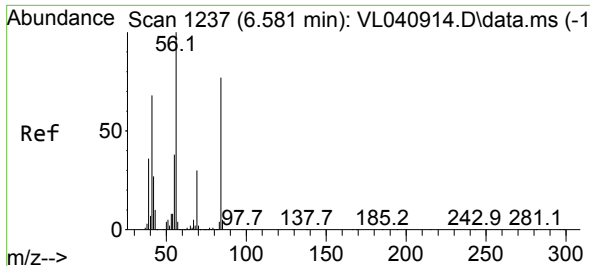


#28
Methyl tert-Butyl Ether
Concen: 0.296 ppbv
RT: 4.594 min Scan# 619
Delta R.T. 0.026 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



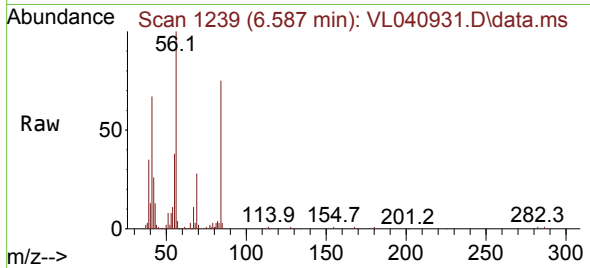
Tgt Ion: 73 Resp: 28145
Ion Ratio Lower Upper
73 100
57 25.4 18.0 27.0





#30
Cyclohexane
Concen: 0.841 ppbv
RT: 6.587 min Scan# 1237
Delta R.T. 0.007 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

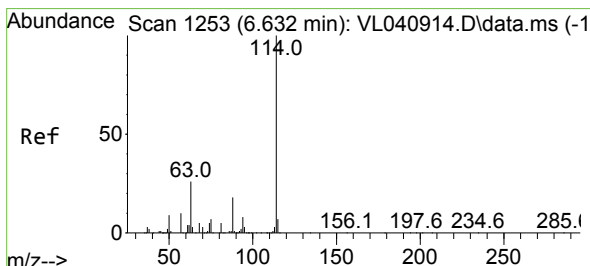
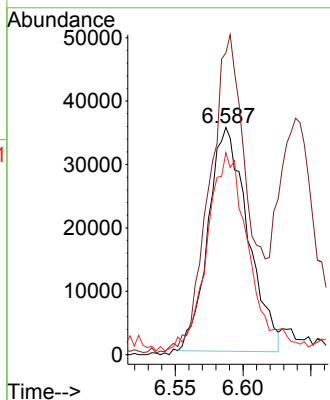
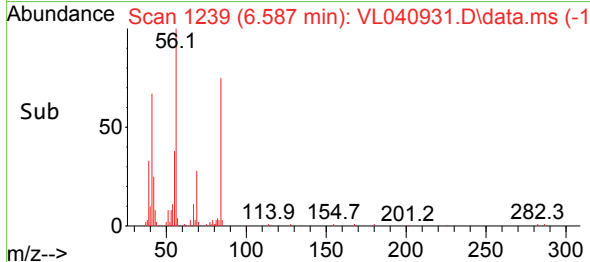
Instrument :
MSVOA_L
ClientSampleId :
10323



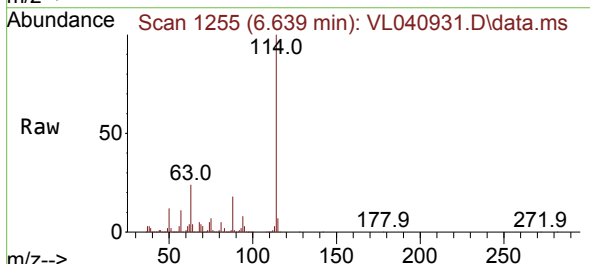
Tgt Ion: 84 Resp: 7186
Ion Ratio Lower Upper
84 100
56 133.9 111.4 167.2
41 97.3 70.0 105.0

Manual Integrations
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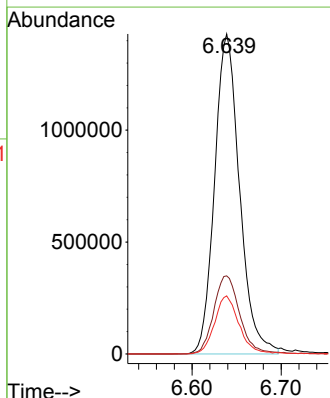
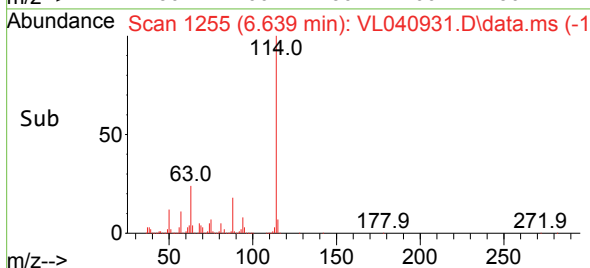
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

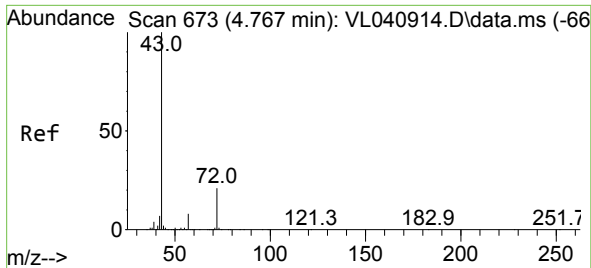


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.007 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



Tgt Ion:114 Resp: 2782345
Ion Ratio Lower Upper
114 100
63 25.8 21.0 31.6
88 18.1 14.3 21.5





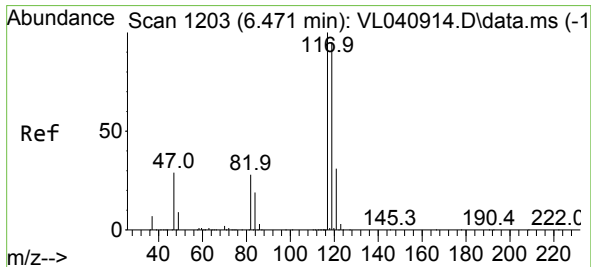
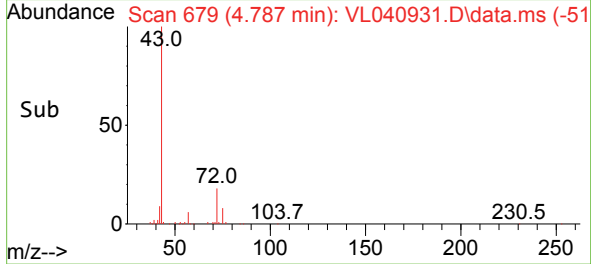
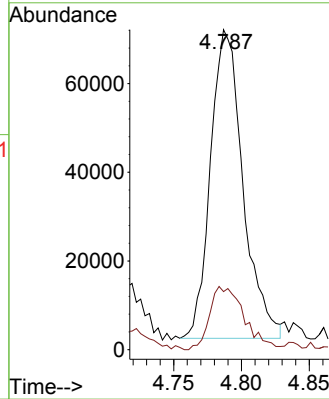
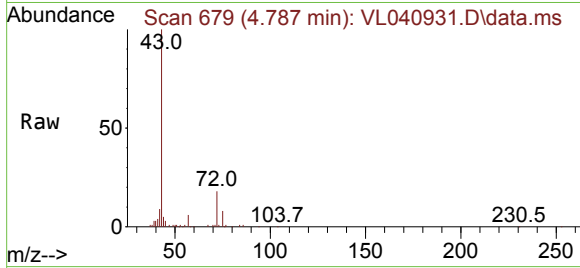
#34
2-Butanone
Concen: 0.787 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
10323

Tgt Ion: 43 Resp: 11588
Ion Ratio Lower Upper
43 100
72 21.9 17.2 25.8

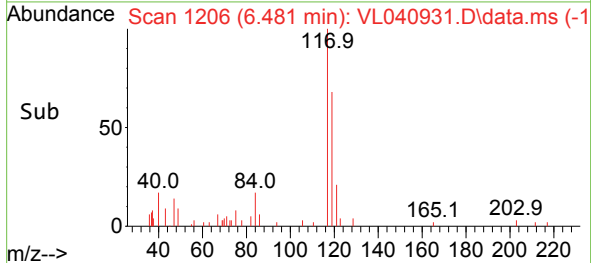
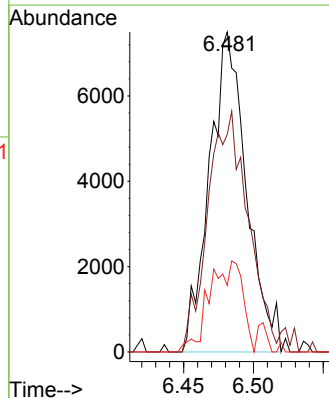
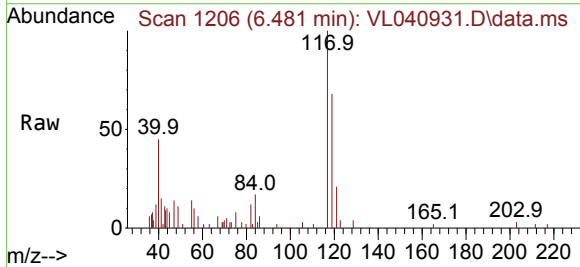
Manual Integrations
APPROVED

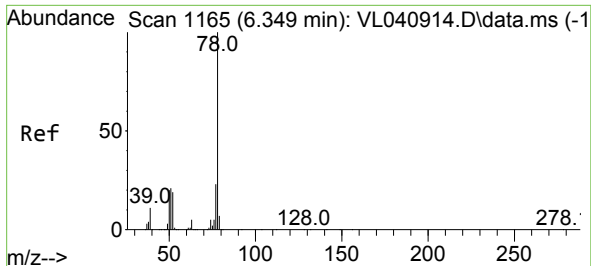
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

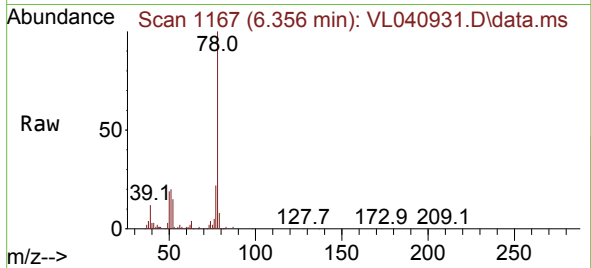
Tgt Ion:117 Resp: 13820
Ion Ratio Lower Upper
117 100
119 68.0 76.3 114.5#
121 20.8 24.9 37.3#





#36
Benzene
Concen: 0.945 ppbv
RT: 6.356 min Scan# 1165
Delta R.T. 0.007 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

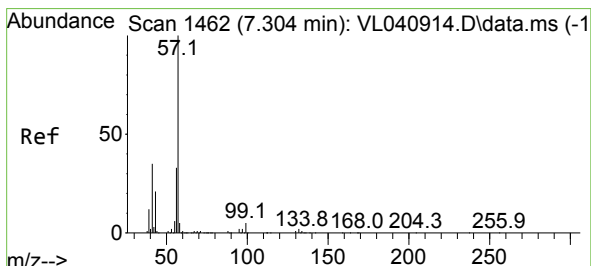
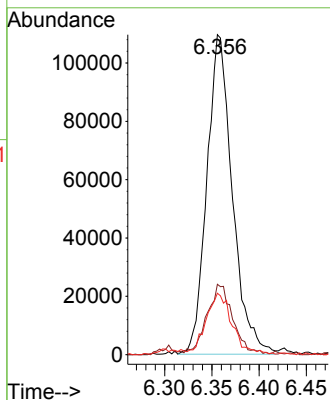
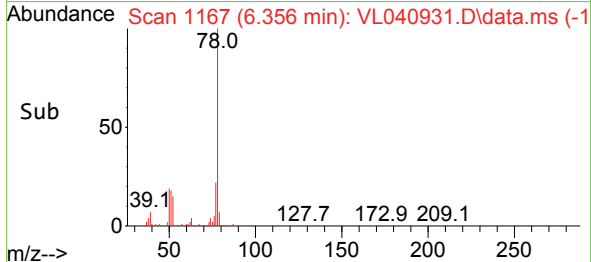
Instrument :
MSVOA_L
ClientSampleId :
10323



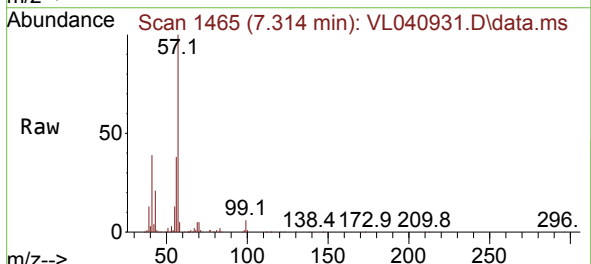
Tgt Ion: 78 Resp: 205574
Ion Ratio Lower Upper
78 100
77 21.4 18.4 27.6
50 18.2 16.0 24.0

Manual Integrations
APPROVED

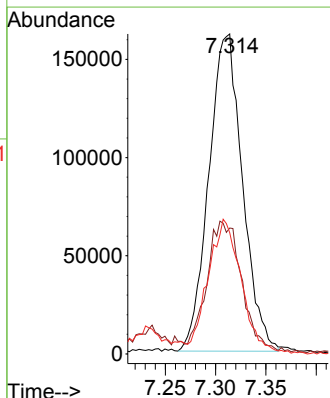
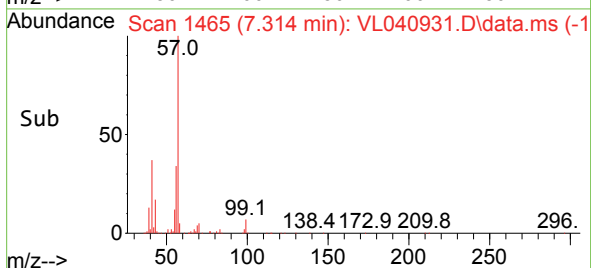
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

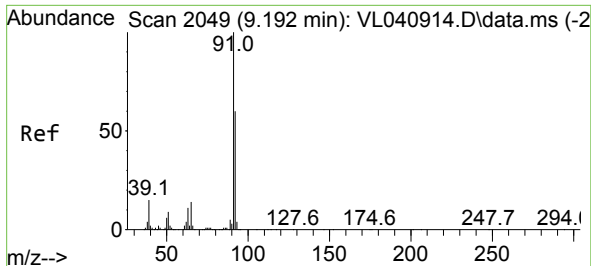


#44
2,2,4-Trimethylpentane
Concen: 1.019 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.010 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



Tgt Ion: 57 Resp: 376485
Ion Ratio Lower Upper
57 100
41 45.3 28.2 42.4#
56 43.7 25.3 37.9#





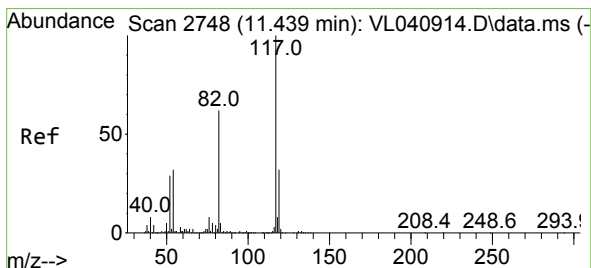
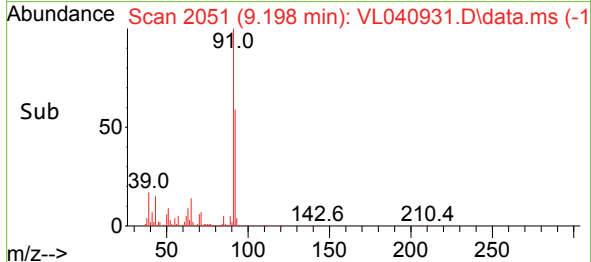
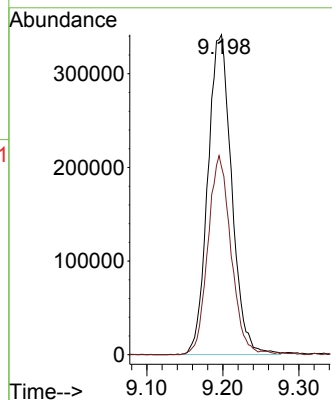
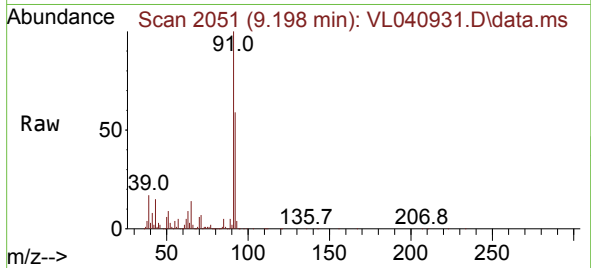
#53
Toluene
Concen: 3.081 ppbv
RT: 9.198 min Scan# 2049
Delta R.T. 0.007 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
10323

Tgt Ion: 91 Resp: 743088
Ion Ratio Lower Upper
91 100
92 60.8 49.2 73.8

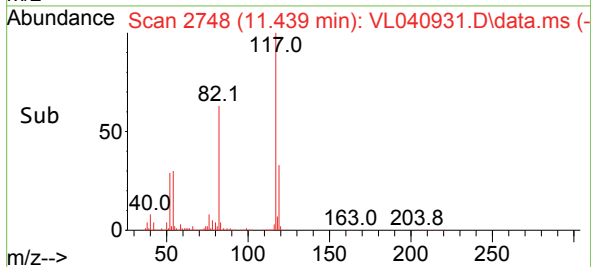
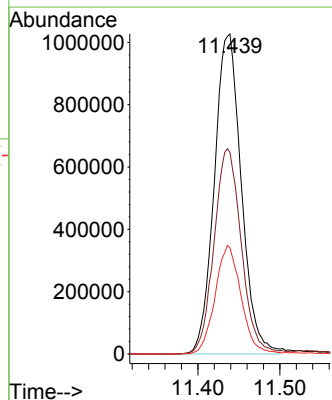
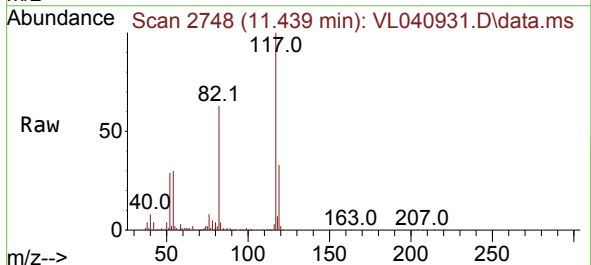
Manual Integrations
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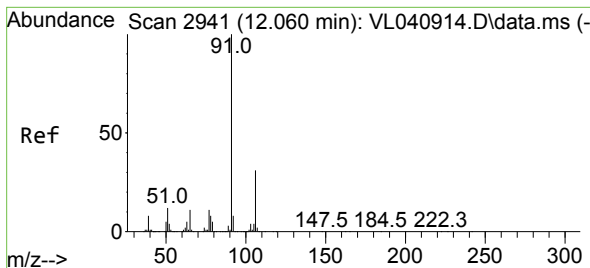
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. 0.000 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

Tgt Ion:117 Resp: 2352271
Ion Ratio Lower Upper
117 100
82 64.7 49.6 74.4
119 32.8 23.4 35.0





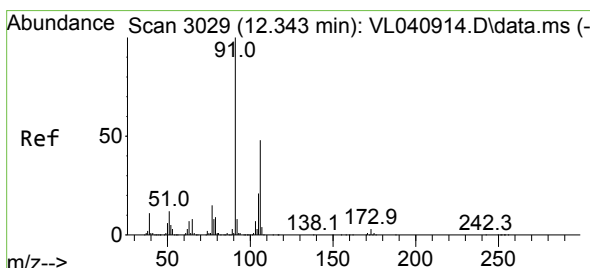
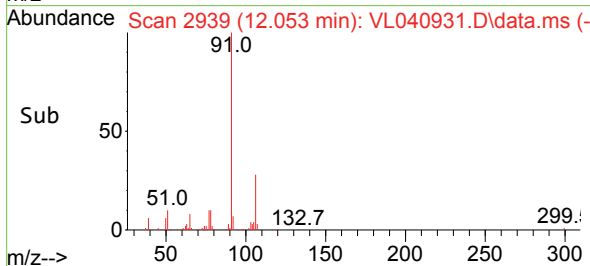
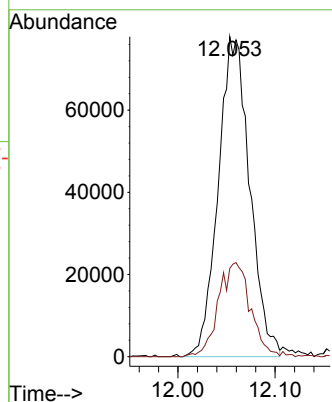
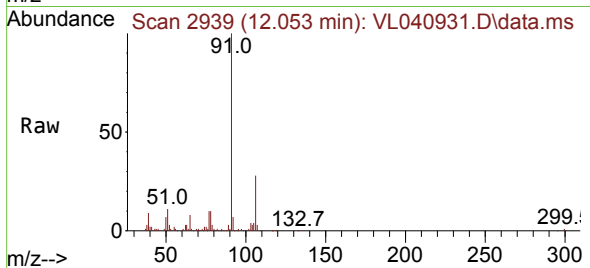
#58
Ethyl Benzene
Concen: 0.580 ppbv m
RT: 12.053 min Scan# 2941
Delta R.T. -0.006 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
10323

Tgt Ion: 91 Resp: 175092
Ion Ratio Lower Upper
91 100
106 27.6 24.9 37.3

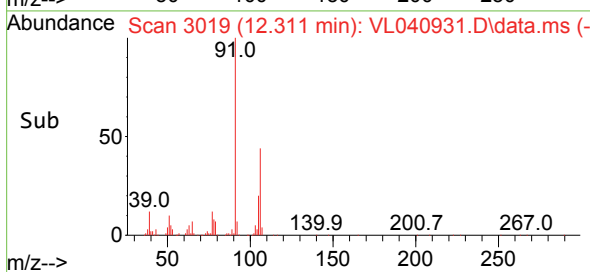
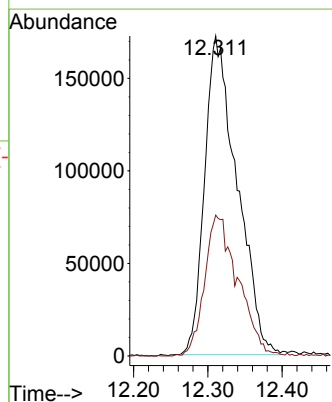
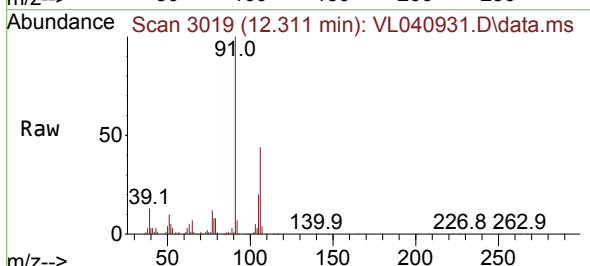
Manual Integrations
APPROVED

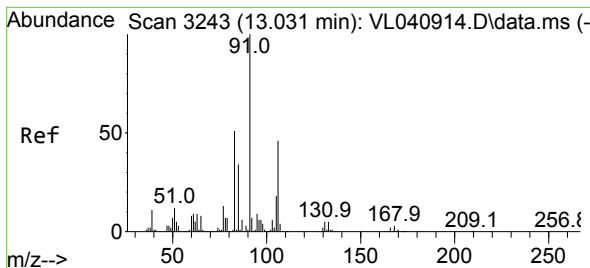
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#59
m/p-Xylene
Concen: 2.033 ppbv
RT: 12.311 min Scan# 3019
Delta R.T. -0.032 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

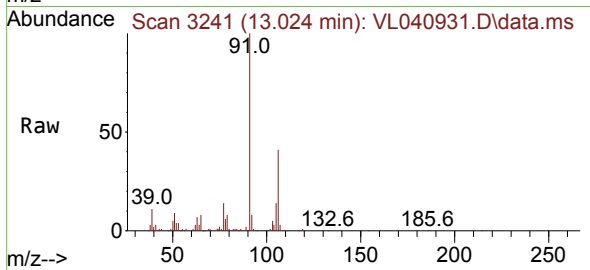
Tgt Ion: 91 Resp: 522587
Ion Ratio Lower Upper
91 100
106 45.5 0.0 0.0#





#60
o-Xylene
Concen: 0.720 ppbv
RT: 13.024 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

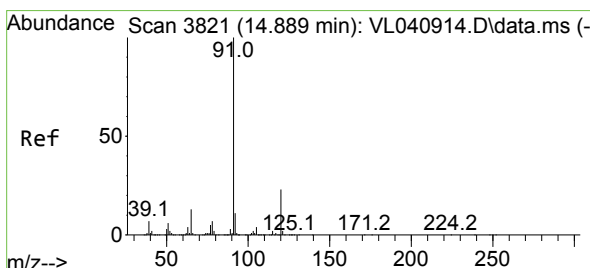
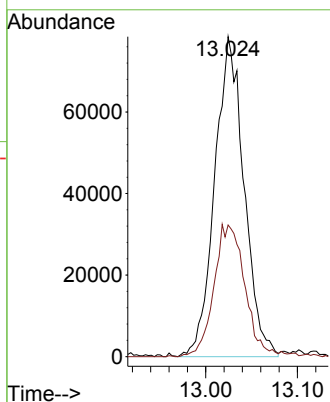
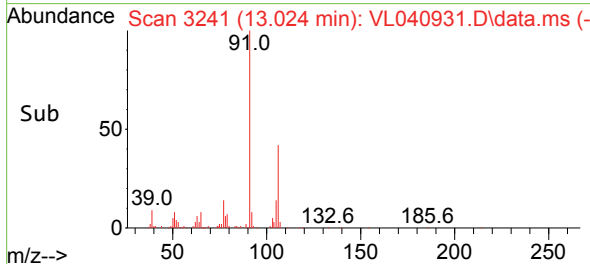
Instrument :
MSVOA_L
ClientSampleId :
10323



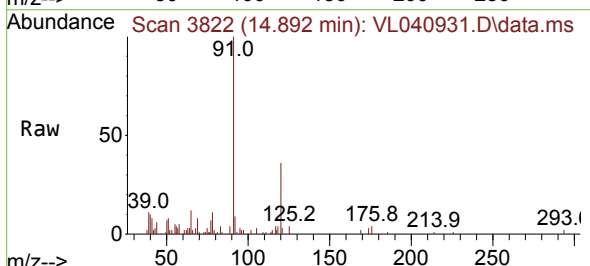
Tgt Ion: 91 Resp: 17425
Ion Ratio Lower Upper
91 100
106 44.3 22.6 67.7

Manual Integrations
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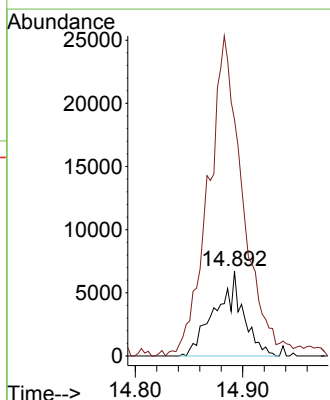
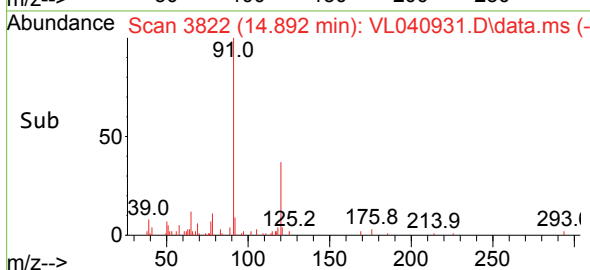
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

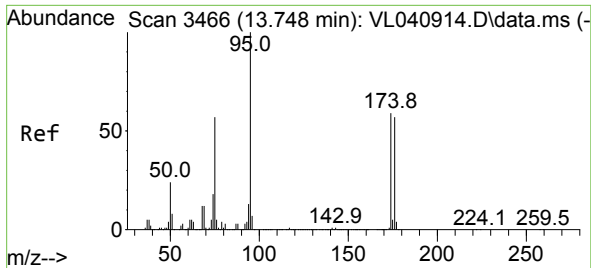


#64
n-propylbenzene
Concen: 0.134 ppbv m
RT: 14.892 min Scan# 3822
Delta R.T. 0.003 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



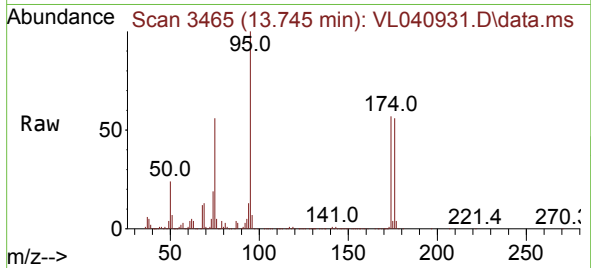
Tgt Ion:120 Resp: 12104
Ion Ratio Lower Upper
120 100
91 0.0 381.9 572.9#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.975 ppbv
RT: 13.745 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54

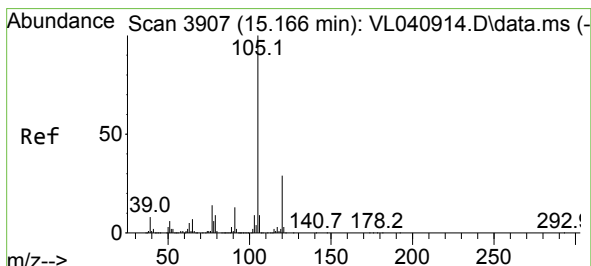
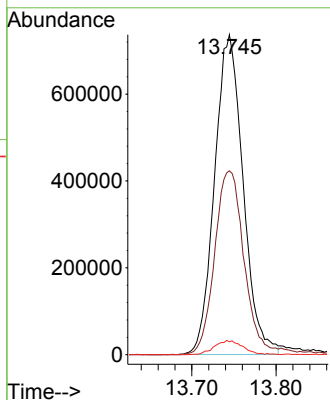
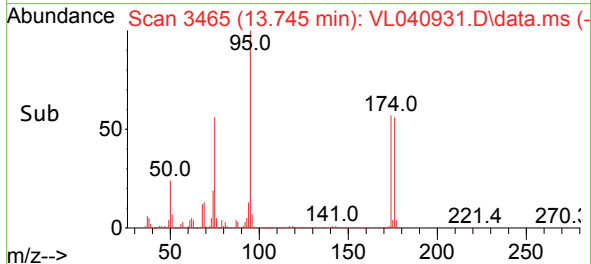
Instrument :
MSVOA_L
ClientSampleId :
10323



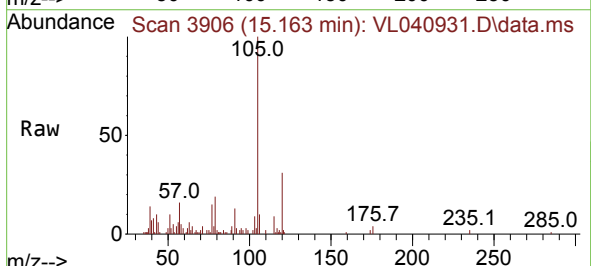
Tgt Ion: 95 Resp: 1728380
Ion Ratio Lower Upper
95 100
174 61.6 48.0 72.0
175 4.5 3.7 5.5

Manual Integrations
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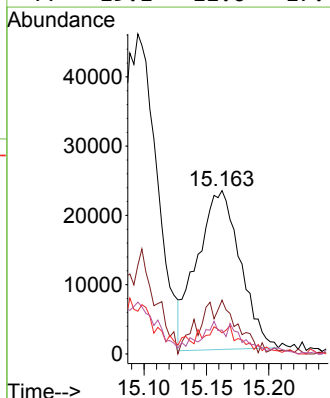
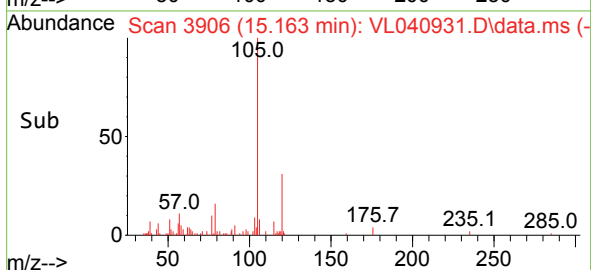
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

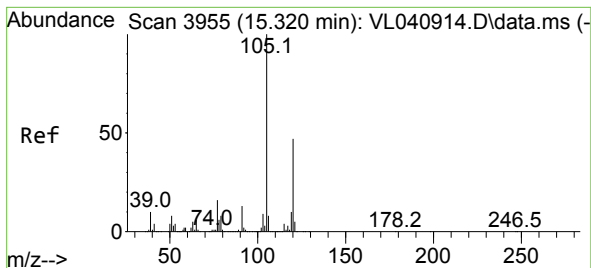


#72
4-Ethyltoluene
Concen: 0.207 ppbv
RT: 15.163 min Scan# 3906
Delta R.T. -0.003 min
Lab File: VL040931.D
Acq: 21 Dec 2023 15:54



Tgt Ion:105 Resp: 55110
Ion Ratio Lower Upper
105 100
120 31.3 23.8 35.8
91 16.3 10.9 16.3
77 19.1 11.6 17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.171 ppbv

RT: 15.320 min Scan# 3955

Delta R.T. 0.000 min

Lab File: VL040931.D

Acq: 21 Dec 2023 15:54

Instrument :

MSVOA_L

ClientSampleId :

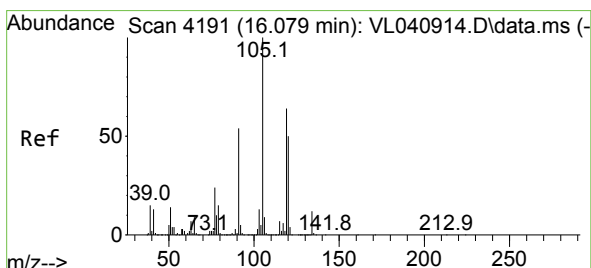
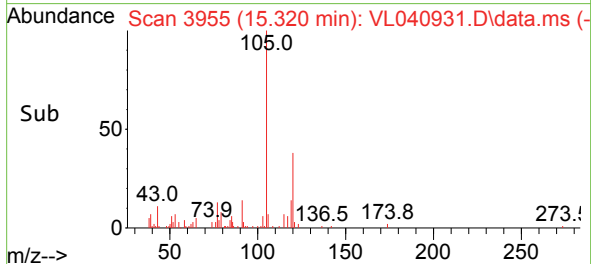
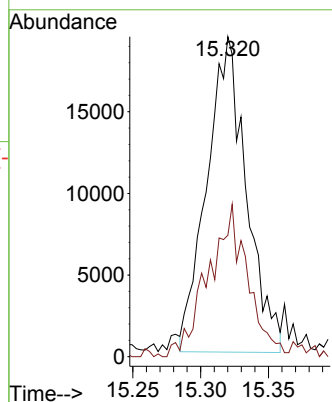
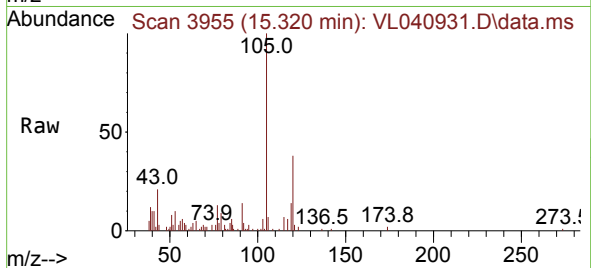
10323

Tgt Ion:105 Resp: 3929
 Ion Ratio Lower Upper
 105 100
 120 41.6 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.650 ppbv m

RT: 16.076 min Scan# 4190

Delta R.T. -0.003 min

Lab File: VL040931.D

Acq: 21 Dec 2023 15:54

Tgt Ion:105 Resp: 166020
 Ion Ratio Lower Upper
 105 100
 120 43.7 40.2 60.4
 91 12.5 43.0 64.6#
 77 17.0 18.9 28.3#

