

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
 Data File : VL039915.D
 Acq On : 21 Nov 2022 18:21
 Operator : SY/AP
 Sample : N5724-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2022
 Supervised By :Mahesh Dadoda 11/24/2022

Quant Time: Nov 22 03:50:10 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	1072320	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.629	114	3160642	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2841486	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2262984	10.427	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	20303	0.132	ppbv	95
4) Chloromethane	2.790	50	17653	0.187	ppbv #	81
7) Chloroethane	3.176	64	3434	0.118	ppbv #	72
9) Propene	2.677	41	30684	0.440	ppbv	86
10) Heptane	7.555	43	99145m	0.589	ppbv	
13) Ethanol	3.217	45	32485m	6.104	ppbv	
15) Acetone	3.439	43	1621933	11.404	ppbv	95
17) tert-Butyl alcohol	3.864	59	88323	0.540	ppbv	97
19) Isopropyl Alcohol	3.555	45	39401	0.512	ppbv #	29
20) Methylene Chloride	3.909	84	663216	9.625	ppbv	96
23) Vinyl Acetate	4.600	43	3763125	64.402	ppbv	98
26) Hexane	5.188	57	1296655	11.366	ppbv #	35
28) Methyl tert-Butyl Ether	4.568	73	27775	0.194	ppbv #	52
34) 2-Butanone	4.770	43	252324m	1.668	ppbv	
41) Tetrahydrofuran	5.549	42	82850	0.794	ppbv	92
51) 2-Hexanone	9.532	43	219050	1.042	ppbv #	99
53) Toluene	9.201	91	231728	0.757	ppbv	96
58) Ethyl Benzene	12.072	91	80758m	0.209	ppbv	
59) m/p-Xylene	12.323	91	254242m	0.788	ppbv	
60) o-Xylene	13.043	91	142428	0.463	ppbv	99
64) n-propylbenzene	14.905	120	14971m	0.129	ppbv	
72) 4-Ethyltoluene	15.178	105	66464	0.192	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.342	105	88560m	0.280	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	345223	1.030	ppbv #	68
79) Naphthalene	21.394	128	25456m	0.127	ppbv	

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

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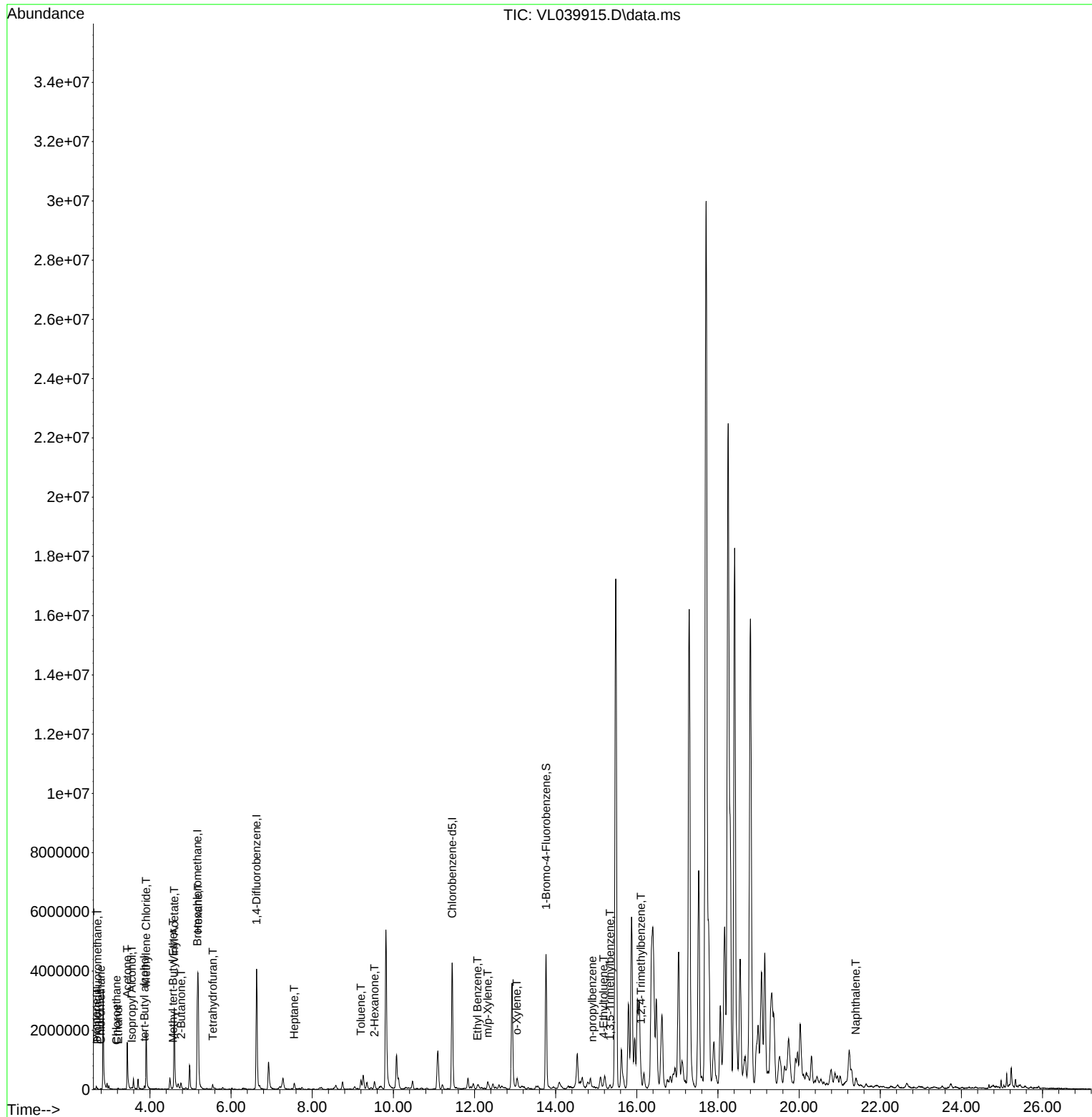
Quant Time: Nov 22 03:50:10 2022

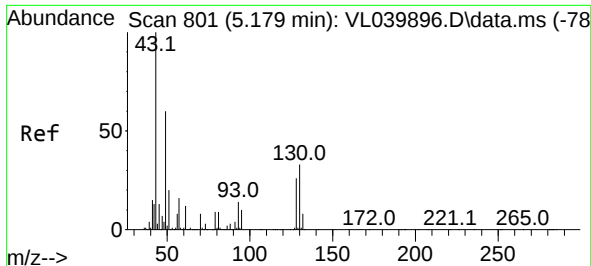
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M

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

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

Response via : Initial Calibration





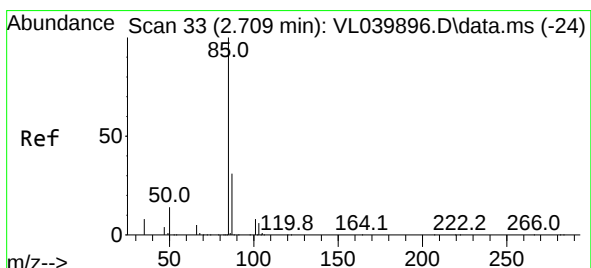
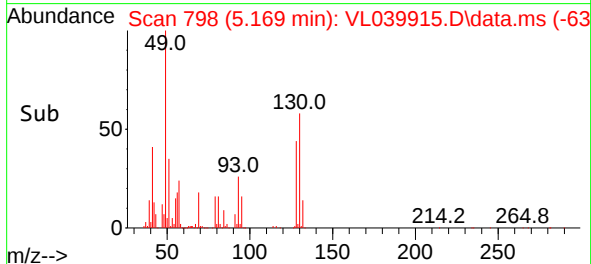
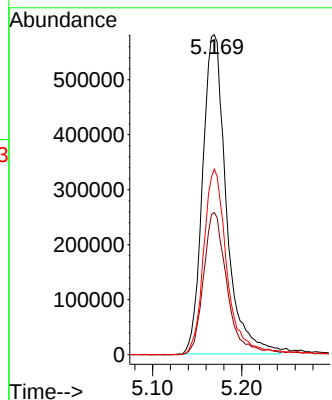
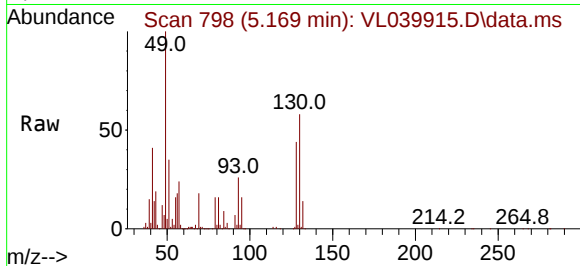
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. 0.013 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 1072320
Ion Ratio Lower Upper
49 100
128 45.3 22.1 66.3
130 58.6 27.7 83.1

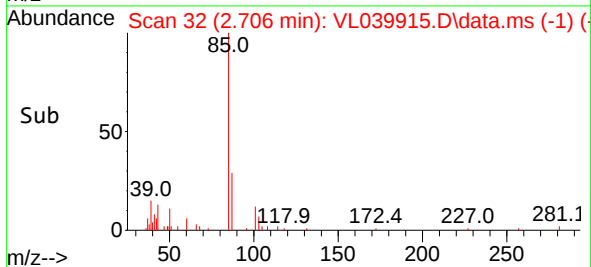
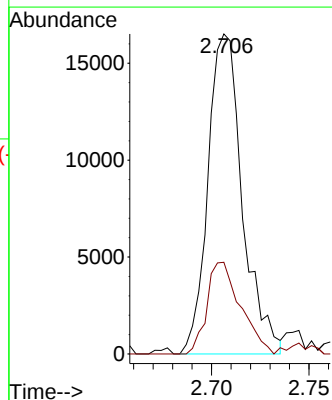
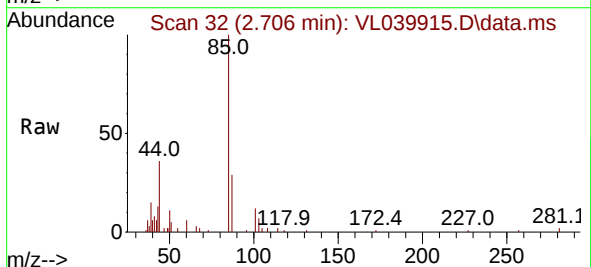
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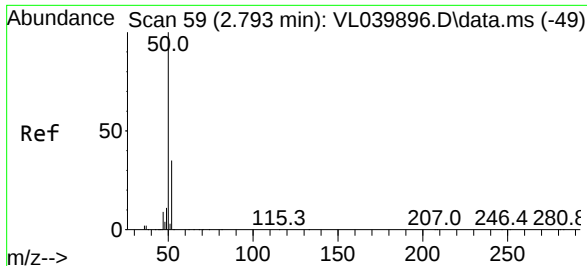
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022



#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

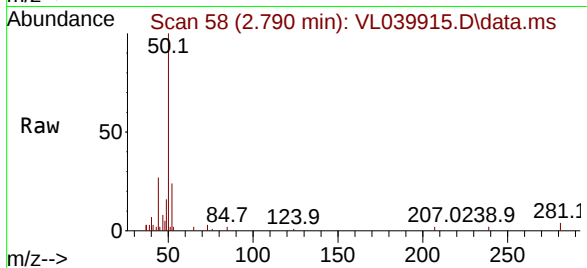
Tgt Ion: 85 Resp: 20303
Ion Ratio Lower Upper
85 100
87 28.6 25.0 37.4





#4
Chloromethane
Concen: 0.187 ppbv
RT: 2.790 min Scan# 59
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

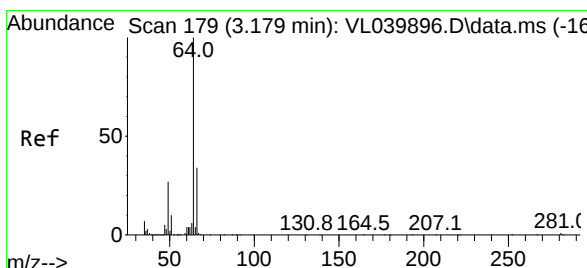
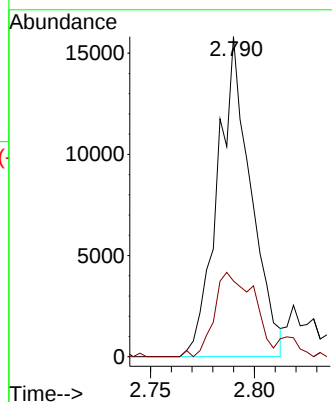
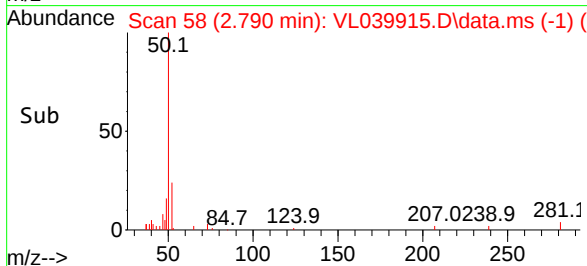
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 50 Resp: 1765
Ion Ratio Lower Upper
50 100
52 23.6 27.8 41.8

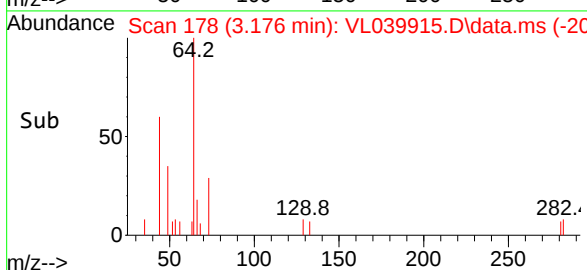
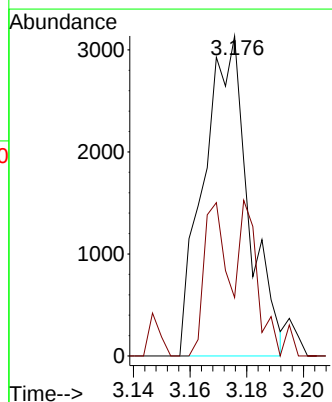
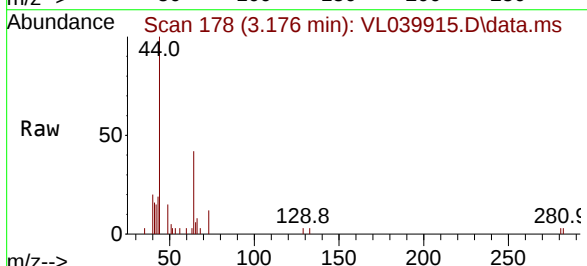
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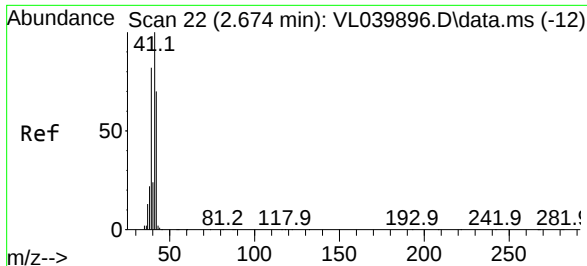
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022



#7
Chloroethane
Concen: 0.118 ppbv
RT: 3.176 min Scan# 178
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

Tgt Ion: 64 Resp: 3434
Ion Ratio Lower Upper
64 100
66 18.2 27.3 40.9





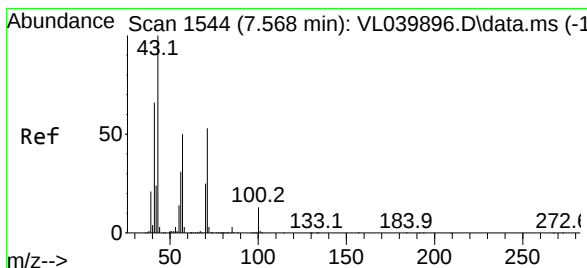
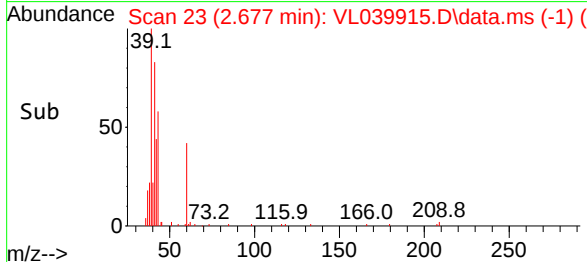
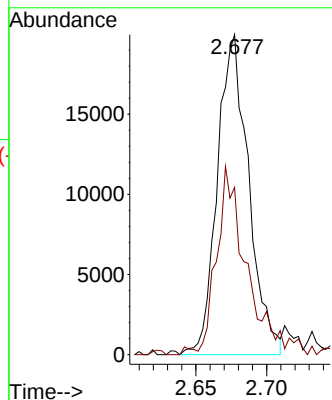
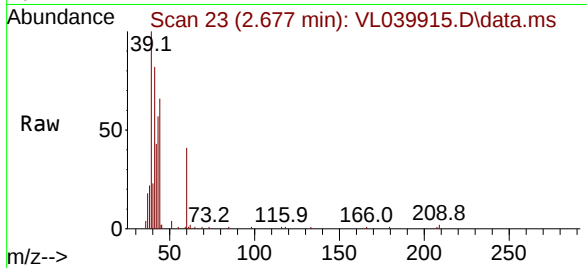
#9
 Propene
 Concen: 0.440 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.016 min
 Lab File: VL039915.D
 Acq: 21 Nov 2022 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 41 Resp: 30684
 Ion Ratio Lower Upper
 41 100
 42 58.6 55.8 83.6

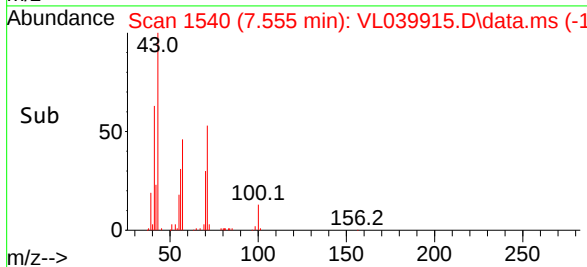
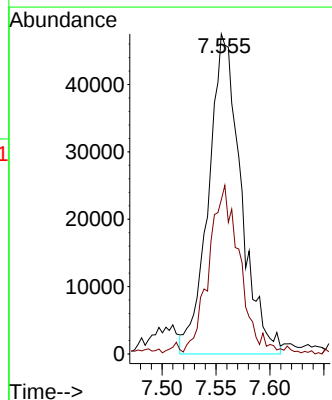
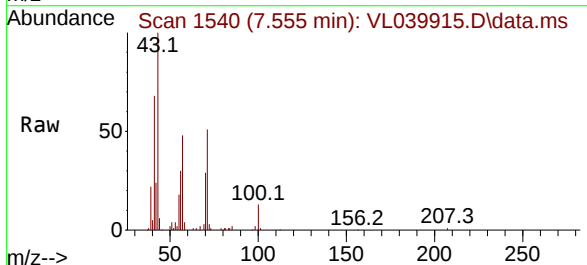
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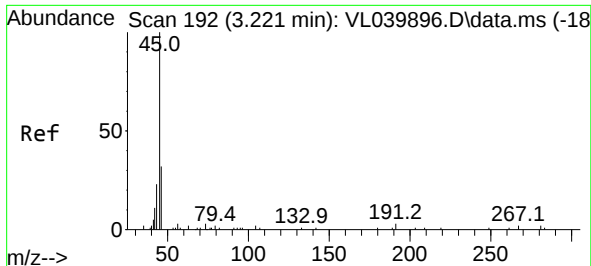
Reviewed By :Semsettin Yesilyurt 11/22/2022
 Supervised By :Mahesh Dadoda 11/24/2022



#10
 Heptane
 Concen: 0.589 ppbv m
 RT: 7.555 min Scan# 1540
 Delta R.T. 0.010 min
 Lab File: VL039915.D
 Acq: 21 Nov 2022 18:21

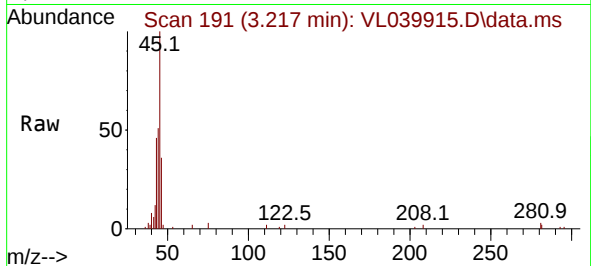
Tgt Ion: 43 Resp: 99145
 Ion Ratio Lower Upper
 43 100
 57 53.1 40.7 61.1





#13
Ethanol
Concen: 6.104 ppbv m
RT: 3.217 min Scan# 192
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

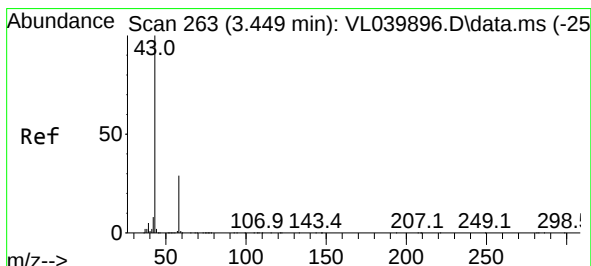
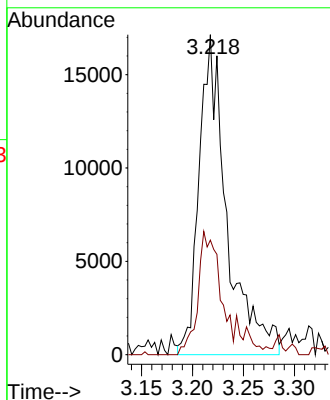
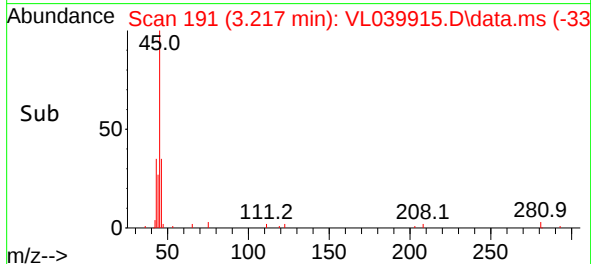
Instrument :
MSVOA_L
ClientSampleId :
SV2



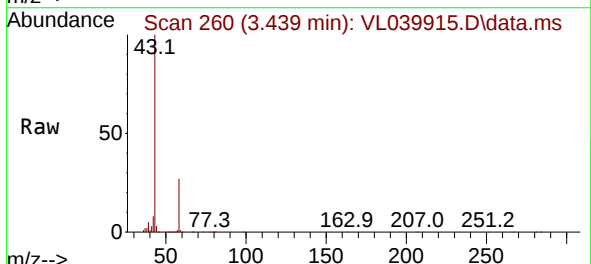
Tgt Ion: 45 Resp: 3248
Ion Ratio Lower Upper
45 100
46 35.9 14.6 58.2

Manual Integrations
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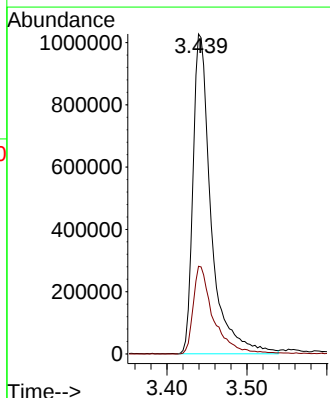
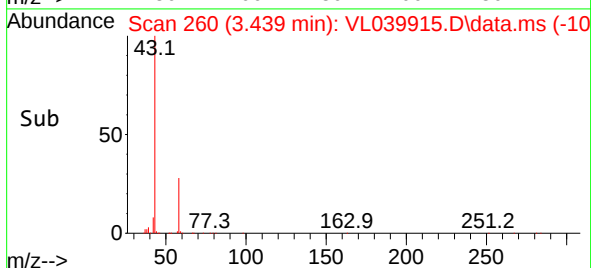
Reviewed By :Semsettin Yesilyurt 11/22/2022
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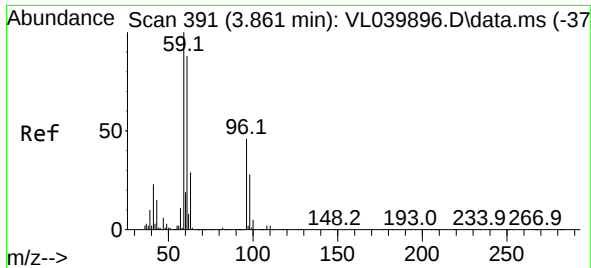


#15
Acetone
Concen: 11.404 ppbv
RT: 3.439 min Scan# 260
Delta R.T. 0.006 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21



Tgt Ion: 43 Resp: 1621933
Ion Ratio Lower Upper
43 100
58 31.1 22.9 34.3





#17

tert-Butyl alcohol

Concen: 0.540 ppbv

RT: 3.864 min Scan# 391

Delta R.T. 0.019 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 59 Resp: 8832

Ion Ratio Lower Upper

59 100

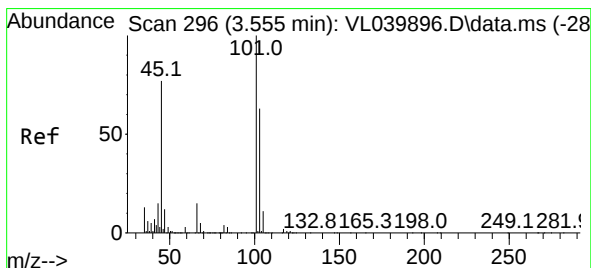
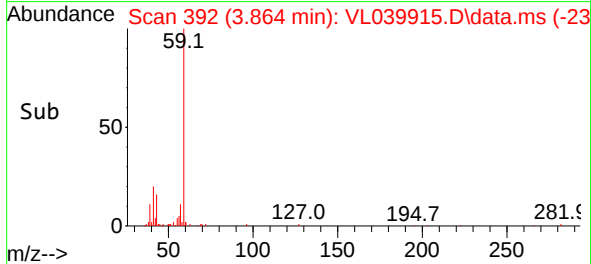
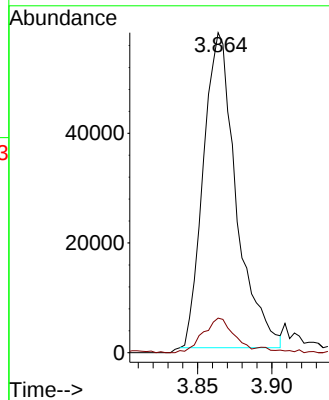
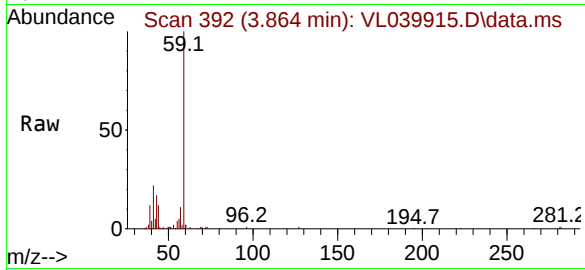
57 11.5 8.3 12.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2022

Supervised By :Mahesh Dadoda 11/24/2022



#19

Isopropyl Alcohol

Concen: 0.512 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.013 min

Lab File: VL039915.D

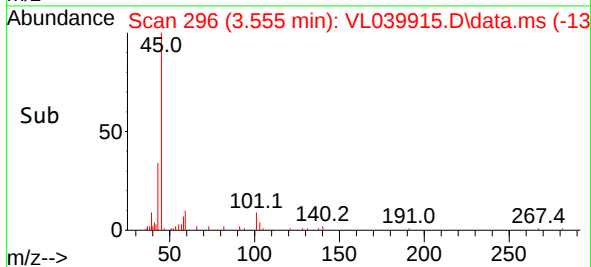
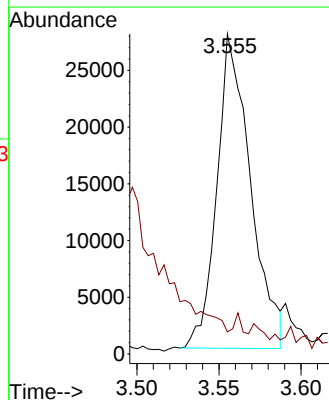
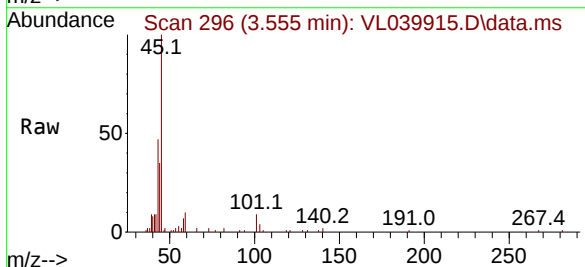
Acq: 21 Nov 2022 18:21

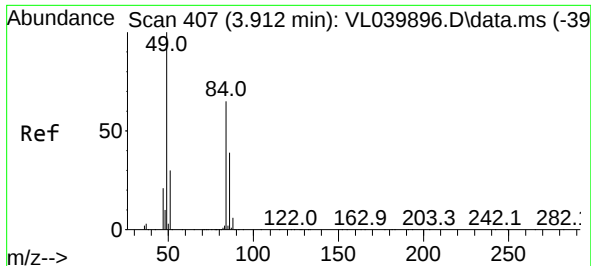
Tgt Ion: 45 Resp: 39401

Ion Ratio Lower Upper

45 100

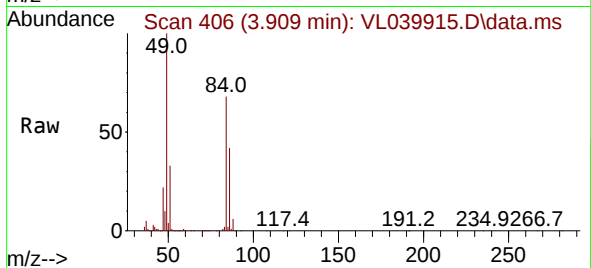
58 0.0 38.7 58.1#





#20
Methylene Chloride
Concen: 9.625 ppbv
RT: 3.909 min Scan# 407
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

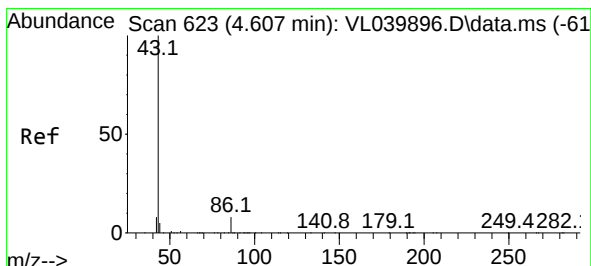
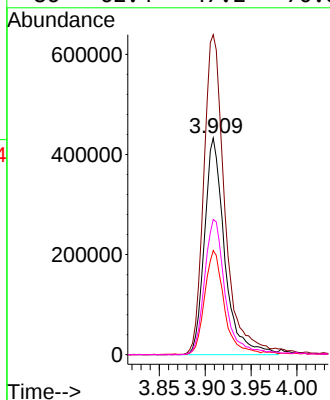
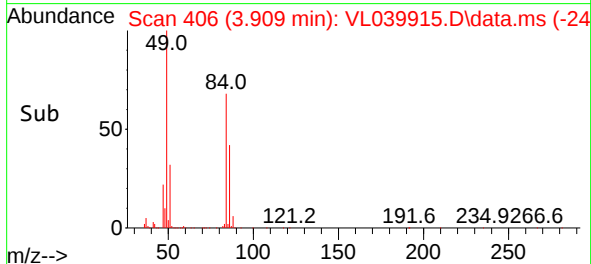
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 663210
Ion Ratio Lower Upper
84 100
49 147.7 122.2 183.4
51 47.9 36.3 54.5
86 62.4 47.2 70.8

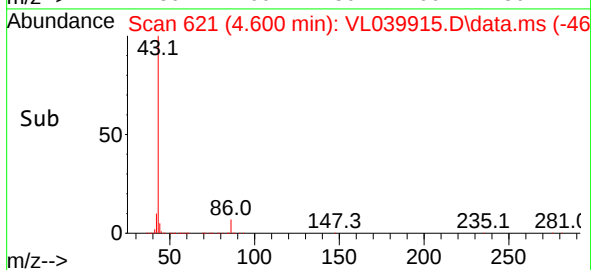
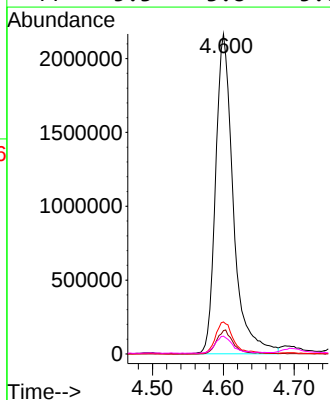
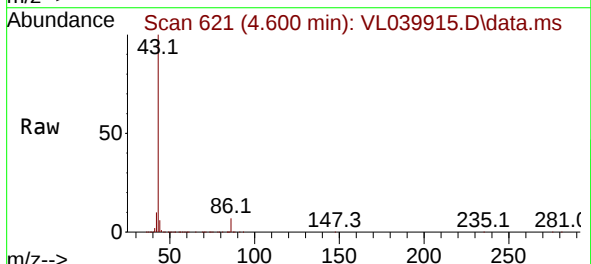
Manual Integrations
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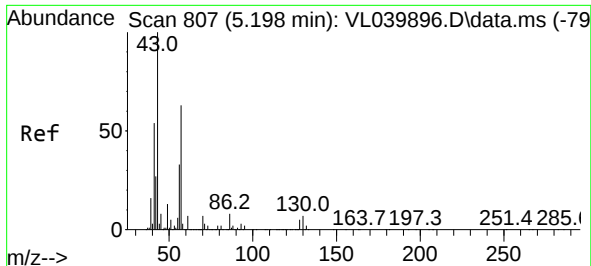
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022



#23
Vinyl Acetate
Concen: 64.402 ppbv
RT: 4.600 min Scan# 621
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

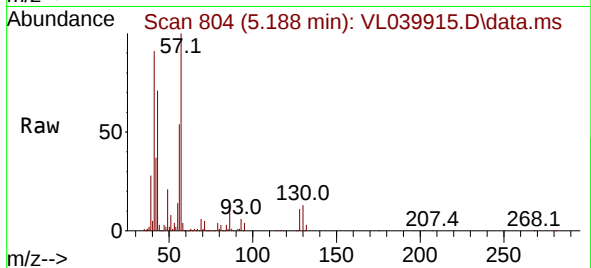
Tgt Ion: 43 Resp: 3763125
Ion Ratio Lower Upper
43 100
86 7.3 5.0 7.4
42 10.0 7.6 11.4
44 5.3 3.8 5.6





#26
Hexane
Concen: 11.366 ppbv
RT: 5.188 min Scan# 804
Delta R.T. 0.006 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

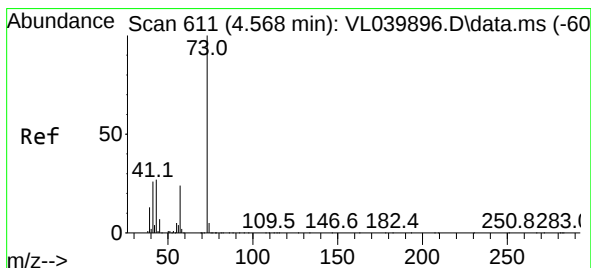
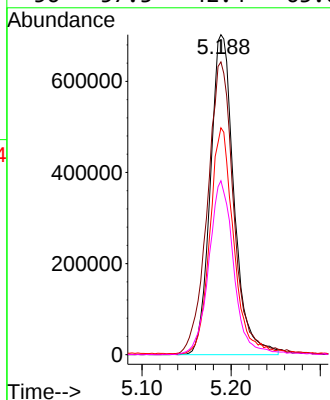
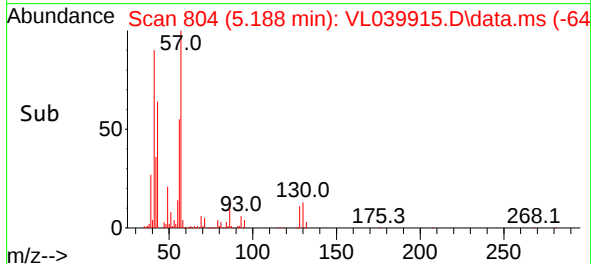
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 129665
Ion Ratio Lower Upper
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41 103.3 72.3 108.5
43 71.3 188.7 283.1
56 57.3 42.4 63.6

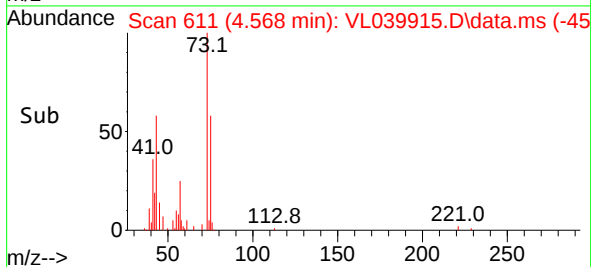
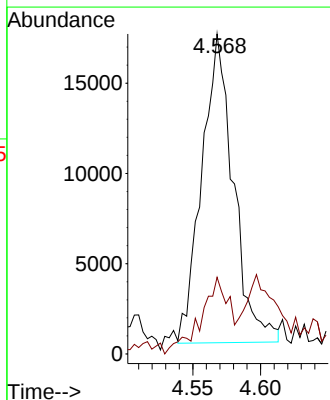
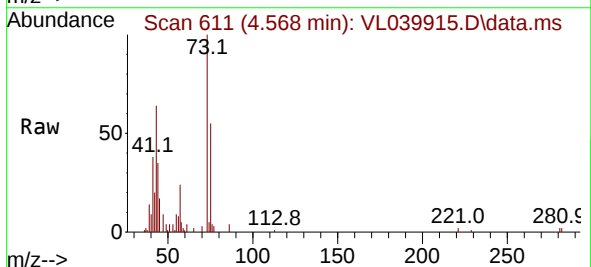
Manual Integrations
APPROVED

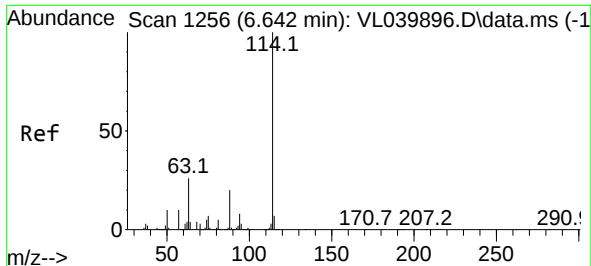
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022



#28
Methyl tert-Butyl Ether
Concen: 0.194 ppbv
RT: 4.568 min Scan# 611
Delta R.T. 0.016 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

Tgt Ion: 73 Resp: 27775
Ion Ratio Lower Upper
73 100
57 0.0 18.9 28.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 316064

Ion Ratio Lower Upper

114 100

63 24.7 21.4 32.0

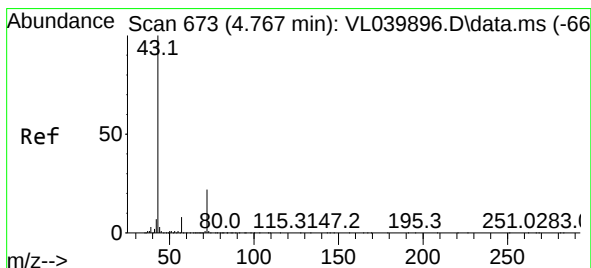
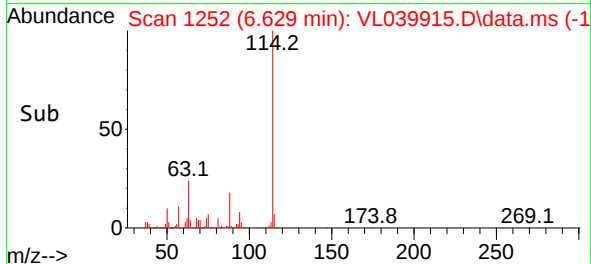
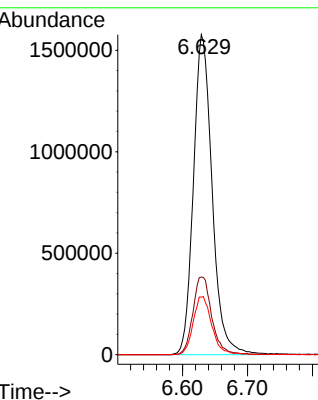
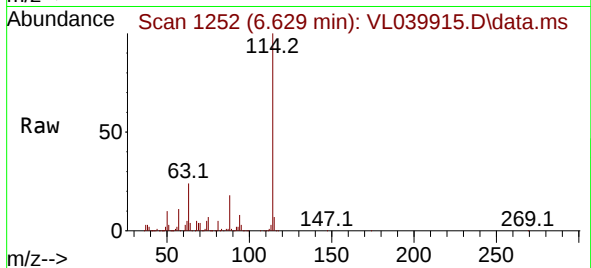
88 18.2 15.3 22.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2022

Supervised By :Mahesh Dadoda 11/24/2022



#34

2-Butanone

Concen: 1.668 ppbv m

RT: 4.770 min Scan# 674

Delta R.T. 0.019 min

Lab File: VL039915.D

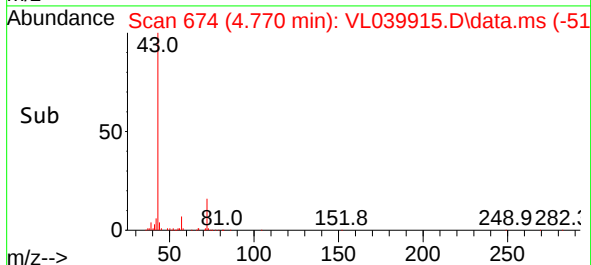
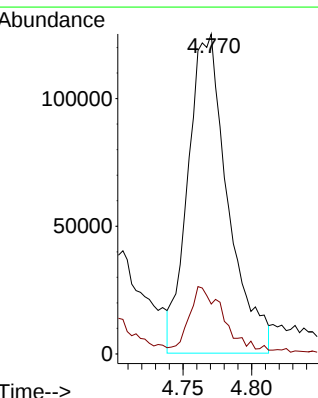
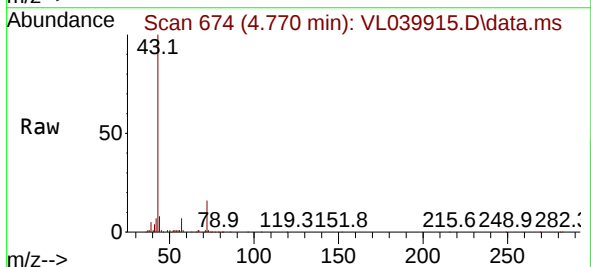
Acq: 21 Nov 2022 18:21

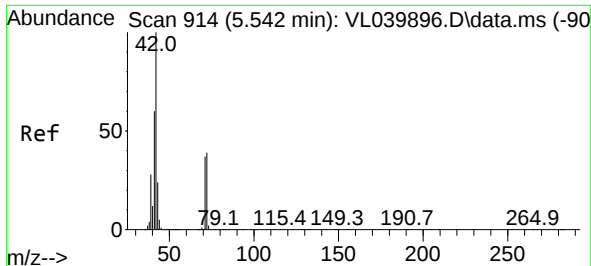
Tgt Ion: 43 Resp: 252324

Ion Ratio Lower Upper

43 100

72 20.1 17.4 26.2





#41

Tetrahydrofuran

Concen: 0.794 ppbv

RT: 5.549 min Scan# 914

Delta R.T. 0.026 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 42 Resp: 82850

Ion Ratio Lower Upper

42 100

72 44.3 31.6 47.4

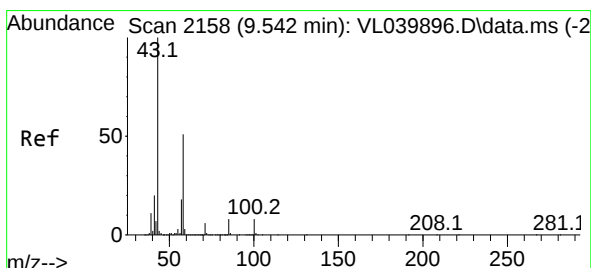
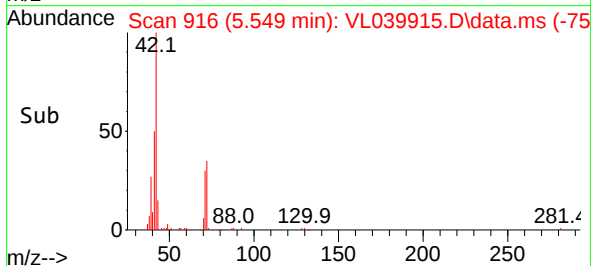
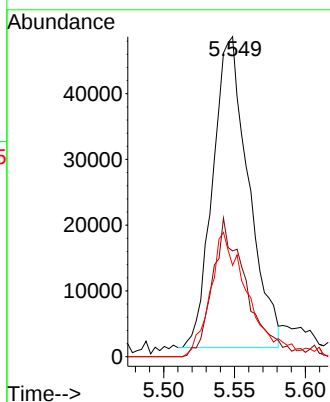
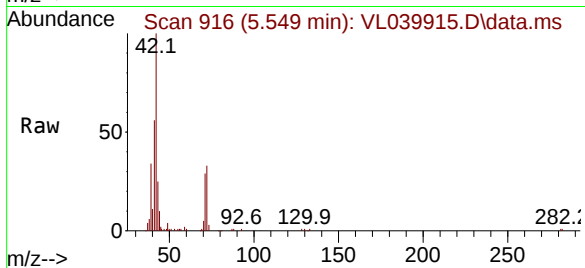
71 43.7 31.2 46.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2022

Supervised By :Mahesh Dadoda 11/24/2022



#51

2-Hexanone

Concen: 1.042 ppbv

RT: 9.532 min Scan# 2155

Delta R.T. 0.006 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

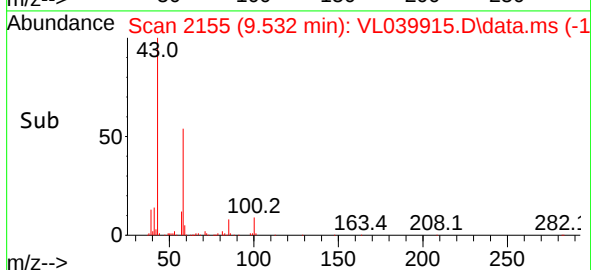
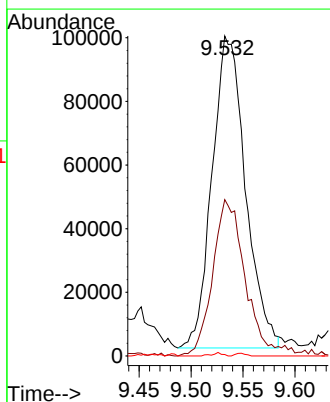
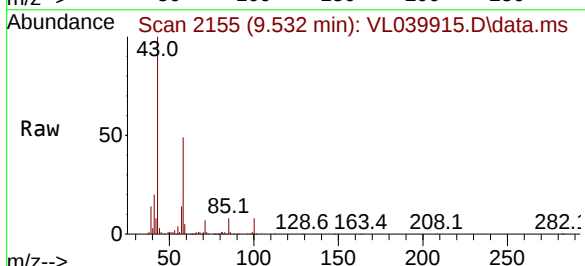
Tgt Ion: 43 Resp: 219050

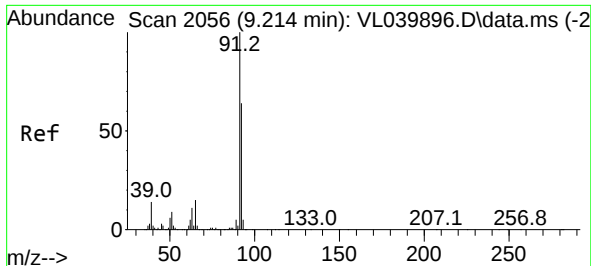
Ion Ratio Lower Upper

43 100

58 49.9 40.2 60.4

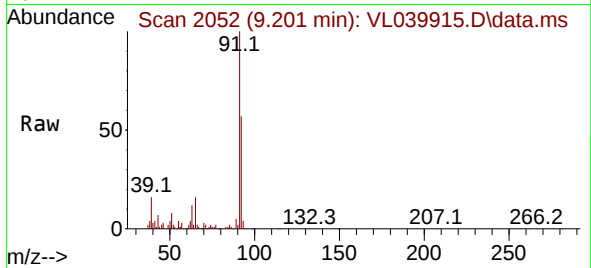
98 0.6 0.1 0.1#





#53
Toluene
Concen: 0.757 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

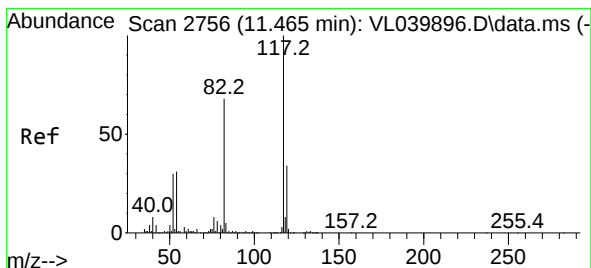
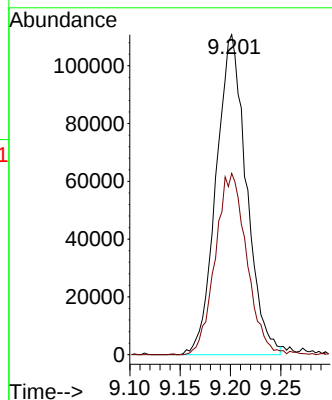
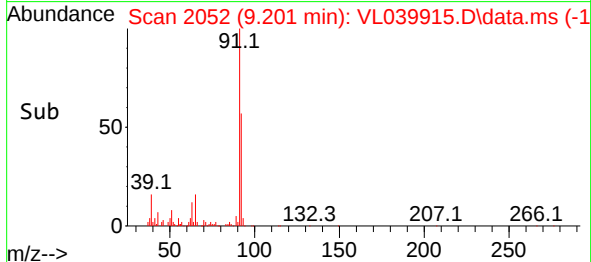
Instrument :
MSVOA_L
ClientSampleId :
SV2



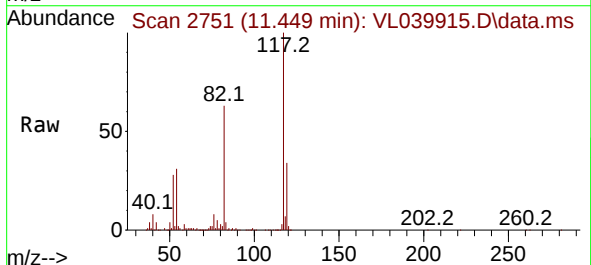
Tgt Ion: 91 Resp: 231728
Ion Ratio Lower Upper
91 100
92 59.2 49.8 74.6

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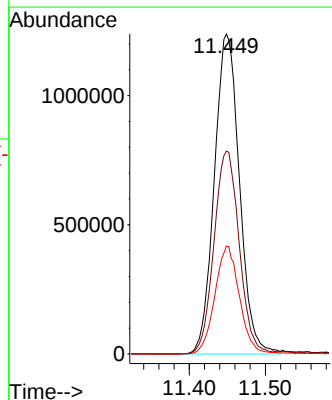
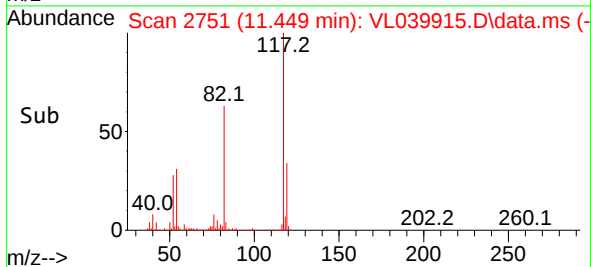
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022

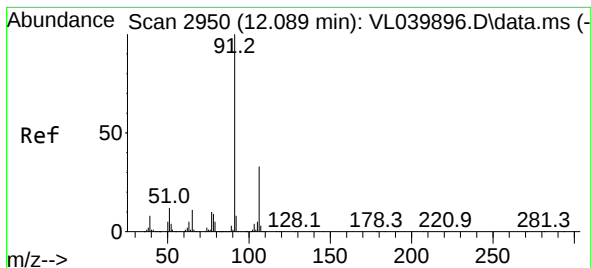


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21



Tgt Ion:117 Resp: 2841486
Ion Ratio Lower Upper
117 100
82 65.0 52.3 78.5
119 33.2 25.7 38.5





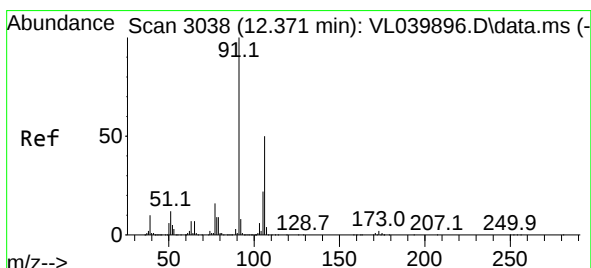
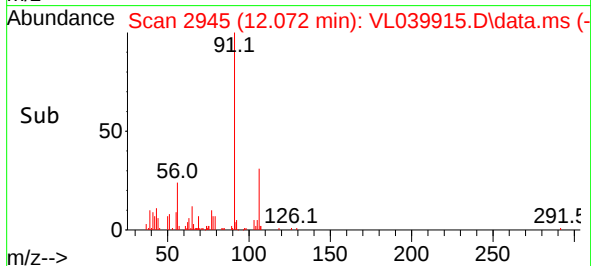
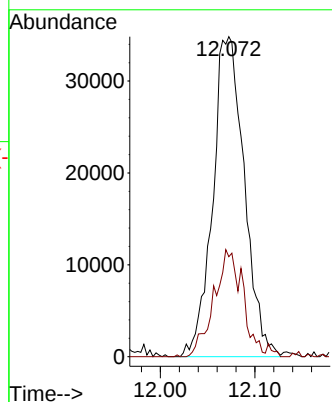
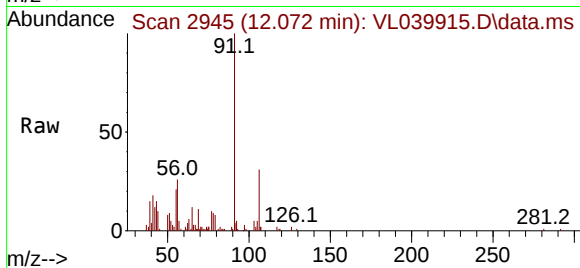
#58
Ethyl Benzene
Concen: 0.209 ppbv m
RT: 12.072 min Scan# 2950
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 80758
Ion Ratio Lower Upper
91 100
106 31.2 26.1 39.1

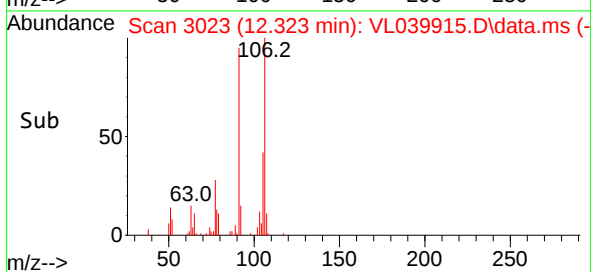
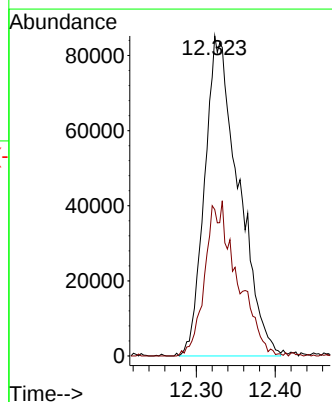
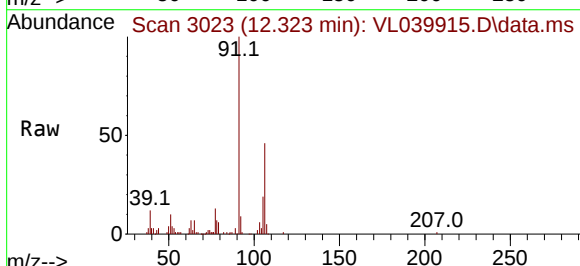
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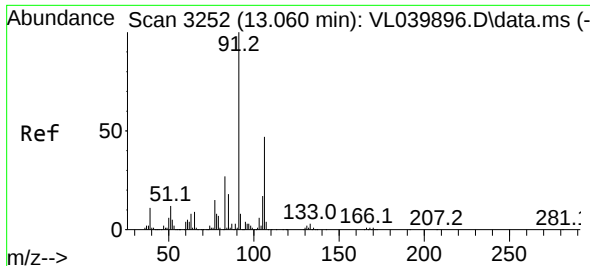
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022



#59
m/p-Xylene
Concen: 0.788 ppbv m
RT: 12.323 min Scan# 3023
Delta R.T. -0.023 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

Tgt Ion: 91 Resp: 254242
Ion Ratio Lower Upper
91 100
106 46.4 37.0 55.6





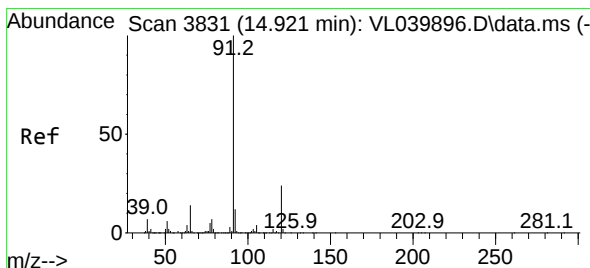
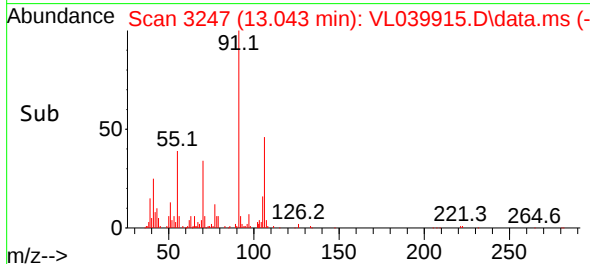
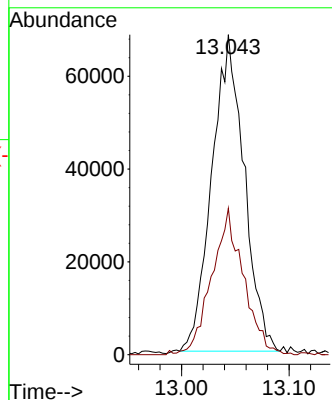
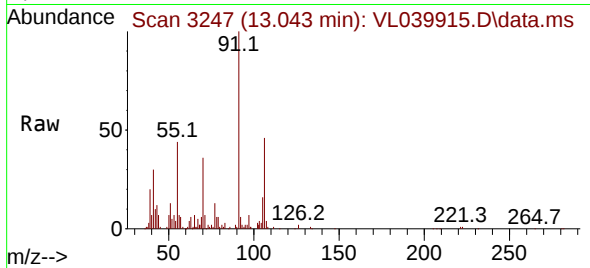
#60
o-Xylene
Concen: 0.463 ppbv
RT: 13.043 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 142428
Ion Ratio Lower Upper
91 100
106 45.5 23.2 69.6

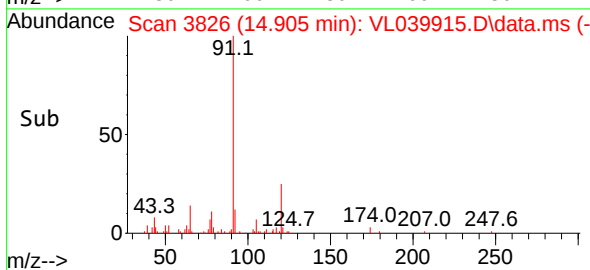
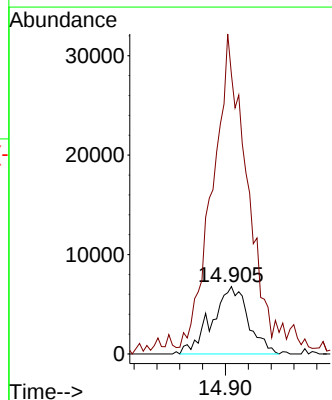
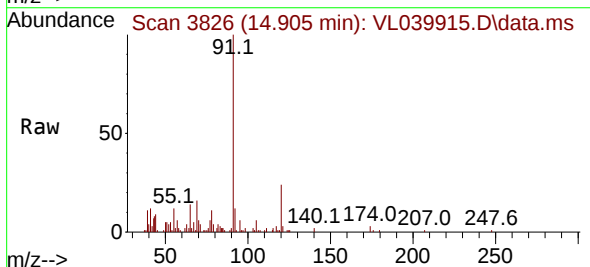
Manual Integrations
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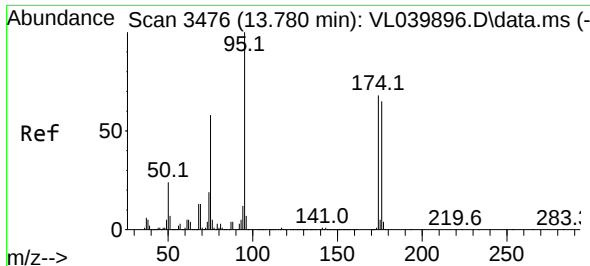
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022



#64
n-propylbenzene
Concen: 0.129 ppbv m
RT: 14.905 min Scan# 3826
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

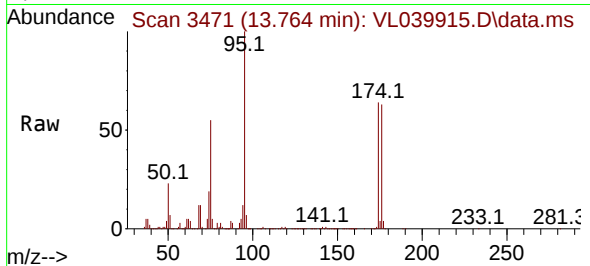
Tgt Ion:120 Resp: 14971
Ion Ratio Lower Upper
120 100
91 0.0 353.7 530.5#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.427 ppbv
RT: 13.764 min Scan# 3476
Delta R.T. 0.010 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21

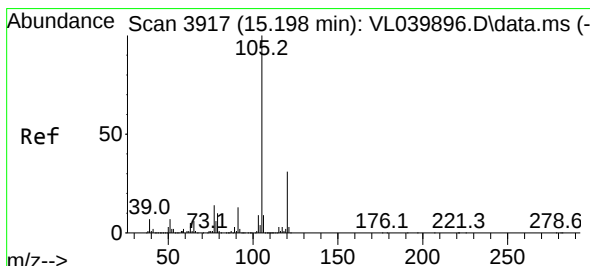
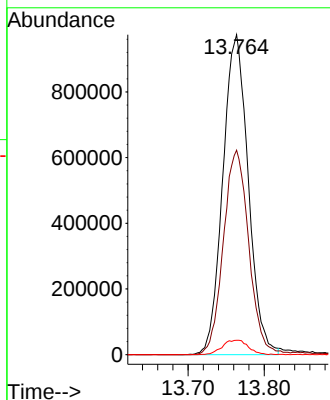
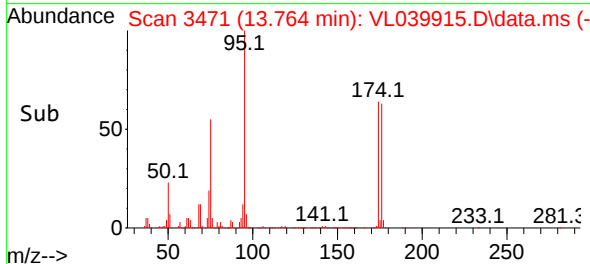
Instrument :
MSVOA_L
ClientSampleId :
SV2



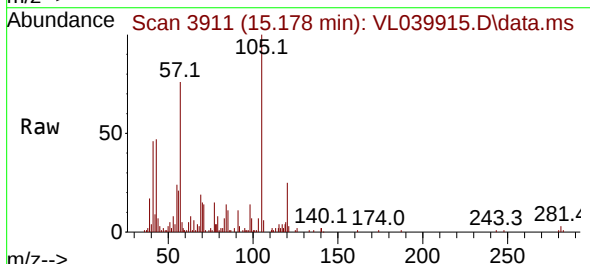
Tgt Ion: 95 Resp: 2262984
Ion Ratio Lower Upper
95 100
174 64.5 53.7 80.5
175 4.7 4.0 6.0

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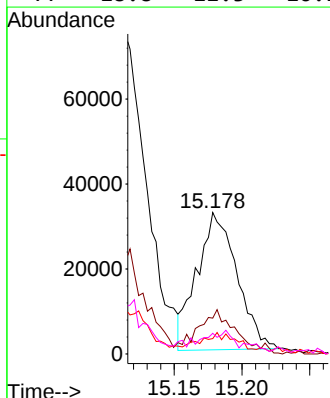
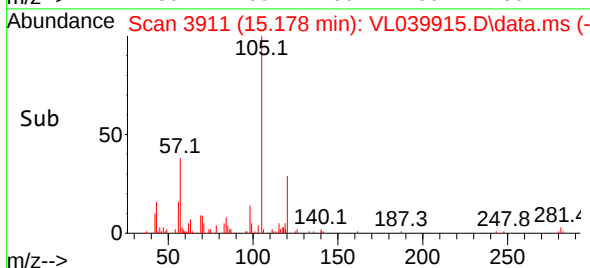
Reviewed By :Semsettin Yesilyurt 11/22/2022
Supervised By :Mahesh Dadoda 11/24/2022

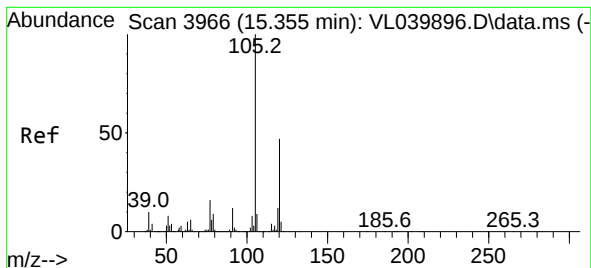


#72
4-Ethyltoluene
Concen: 0.192 ppbv
RT: 15.178 min Scan# 3911
Delta R.T. 0.003 min
Lab File: VL039915.D
Acq: 21 Nov 2022 18:21



Tgt Ion:105 Resp: 66464
Ion Ratio Lower Upper
105 100
120 32.0 24.5 36.7
91 17.5 10.4 15.6#
77 18.8 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.280 ppbv m

RT: 15.342 min Scan# 3966

Delta R.T. 0.010 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 88560

Ion Ratio Lower Upper

105 100

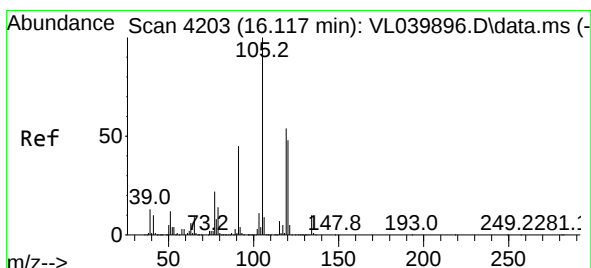
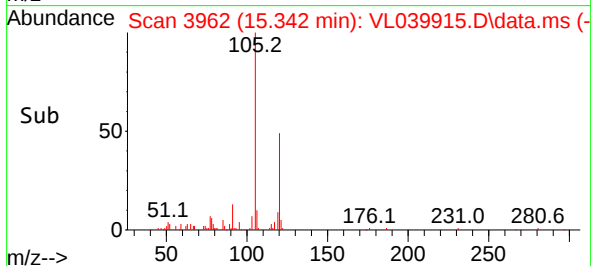
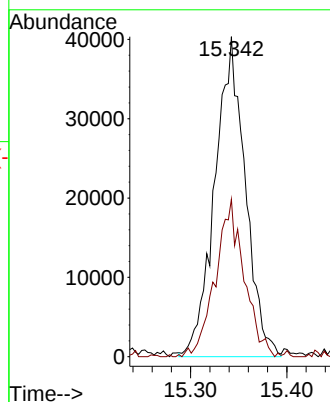
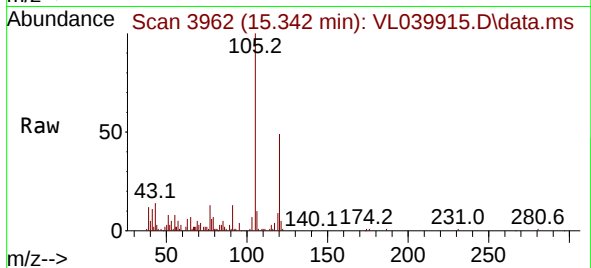
120 49.2 37.9 56.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2022

Supervised By :Mahesh Dadoda 11/24/2022



#74

1,2,4-Trimethylbenzene

Concen: 1.030 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.010 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

Tgt Ion:105 Resp: 345223

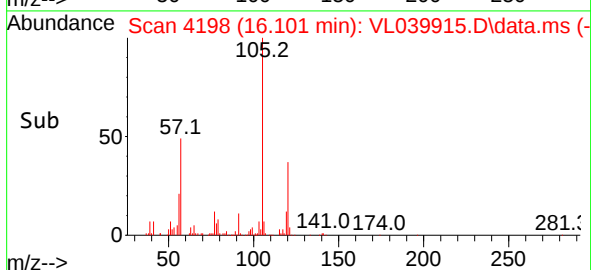
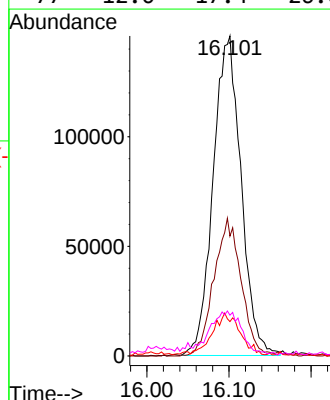
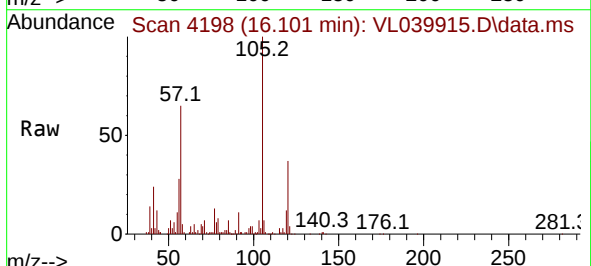
Ion Ratio Lower Upper

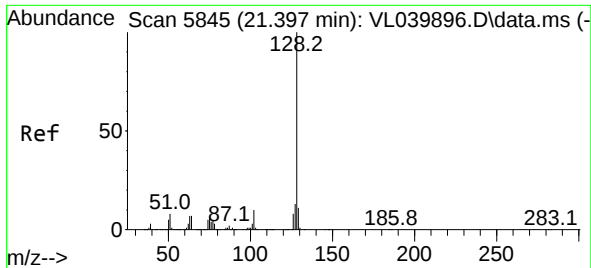
105 100

120 37.5 38.7 58.1#

91 10.2 36.4 54.6#

77 12.0 17.4 26.0#





#79

Naphthalene

Concen: 0.127 ppbv m

RT: 21.394 min Scan# 5845

Delta R.T. 0.022 min

Lab File: VL039915.D

Acq: 21 Nov 2022 18:21

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:128 Resp: 25450

Ion Ratio Lower Upper

128 100

127 25.0 10.0 15.0

129 15.3 8.8 13.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2022

Supervised By :Mahesh Dadoda 11/24/2022

