

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040501.D
 Acq On : 23 Jun 2023 10:13
 Operator : SY/MD
 Sample : 03397-04DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

Quant Time: Jun 26 02:15:10 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M

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

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1079178	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2775408	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2474865	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2037323	9.974	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	24518	0.104	ppbv #	83
9) Propene	2.700	41	25870	0.475	ppbv	86
10) Heptane	7.571	43	106791	0.866	ppbv	99
11) Trichlorofluoromethane	3.555	101	188459	0.985	ppbv	98
13) Ethanol	3.237	45	206482	18.293	ppbv	99
15) Acetone	3.465	43	710878m	5.461	ppbv	
17) tert-Butyl alcohol	3.883	59	14375m	0.134	ppbv	
19) Isopropyl Alcohol	3.578	45	15495m	0.247	ppbv	
20) Methylene Chloride	3.931	84	70682	1.272	ppbv	95
26) Hexane	5.205	57	177154	1.586	ppbv #	43
27) Carbon Disulfide	4.118	76	76620	0.549	ppbv #	91
30) Cyclohexane	6.590	84	34473m	0.383	ppbv	
34) 2-Butanone	4.787	43	70244	0.525	ppbv	92
36) Benzene	6.359	78	170788	0.774	ppbv	95
44) 2,2,4-Trimethylpentane	7.320	57	168020	0.466	ppbv #	80
52) Tetrachloroethene	10.610	164	60709	0.876	ppbv	91
53) Toluene	9.211	91	1432891	6.162	ppbv	99
58) Ethyl Benzene	12.082	91	656262	2.189	ppbv	95
59) m/p-Xylene	12.336	91	2197149	7.973	ppbv	95
60) o-Xylene	13.053	91	813861	3.114	ppbv	99
62) Isopropylbenzene	14.024	105	163607m	0.421	ppbv	
64) n-propylbenzene	14.908	120	33615m	0.341	ppbv	
72) 4-Ethyltoluene	15.185	105	215335	0.731	ppbv	98
73) 1,3,5-Trimethylbenzene	15.349	105	148030m	0.569	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	680145	2.222	ppbv #	70

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

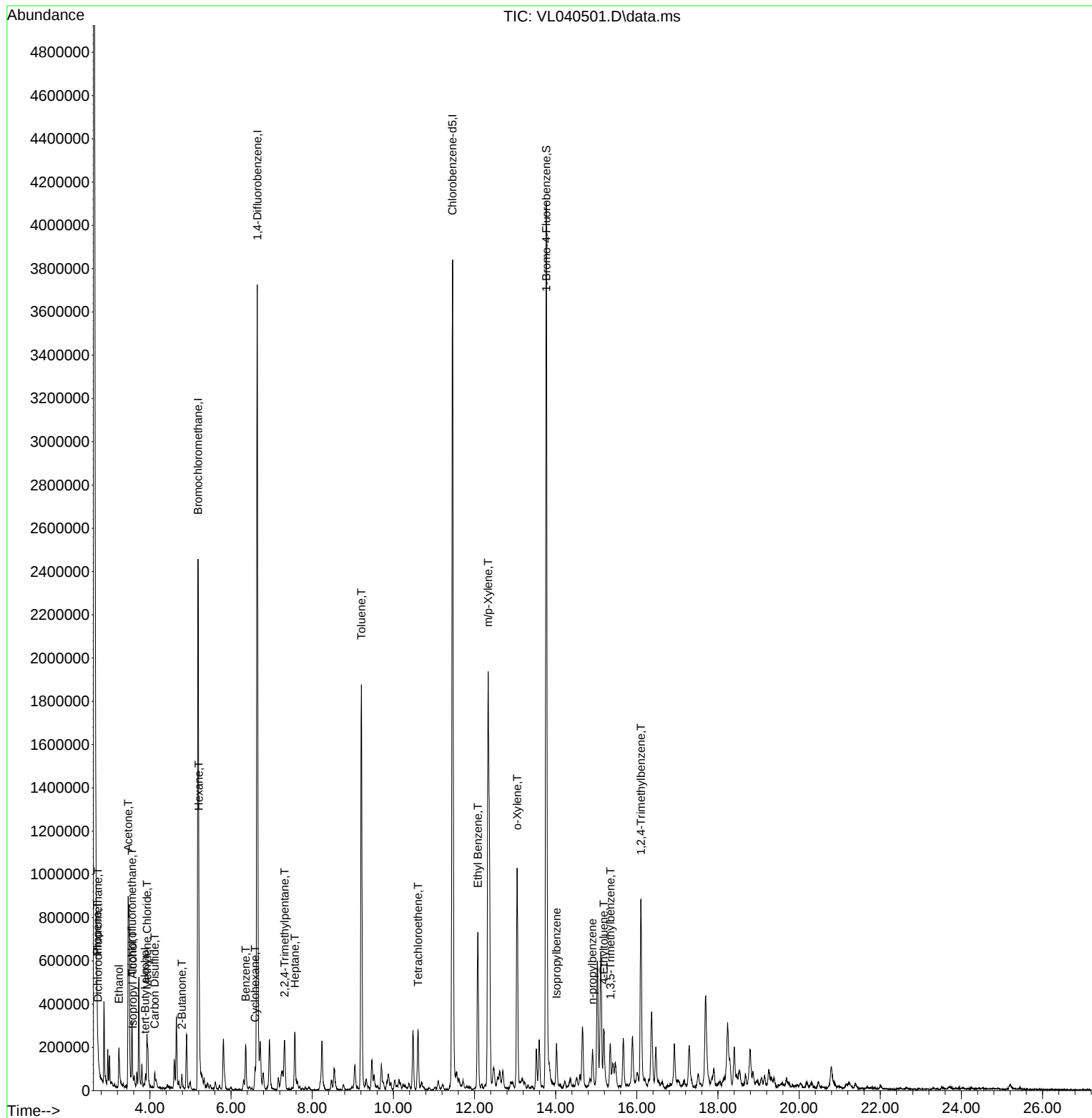
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
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Misc : 400mL/MSVOA_L
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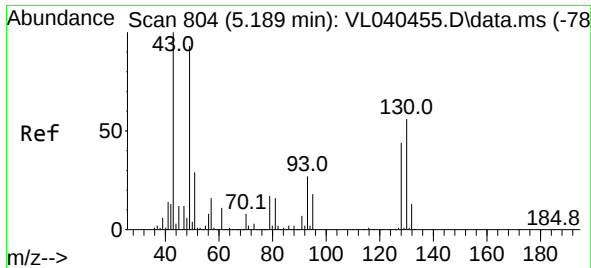
Instrument :
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Quant Time: Jun 26 02:15:10 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jun 06 06:22:12 2023
Response via : Initial Calibration

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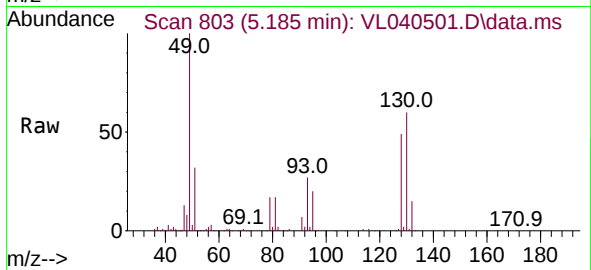
Reviewed By : Semsettin Yesilyurt 06/26/2023
Supervised By : Mahesh Dadoda 06/27/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

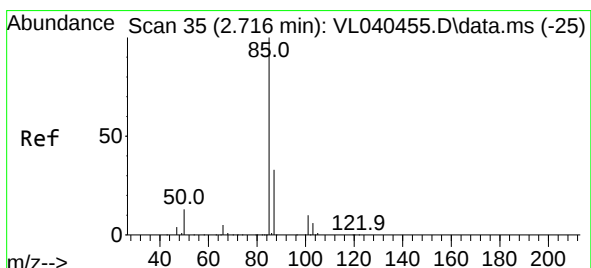
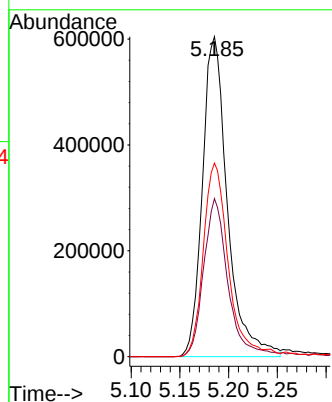
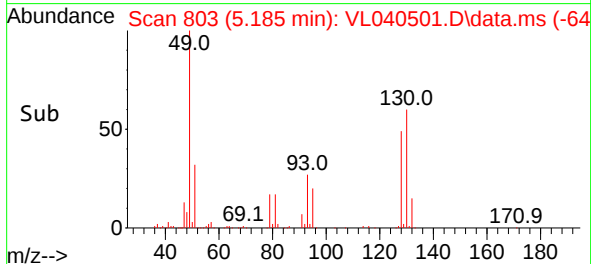
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL



Tgt Ion: 49 Resp: 1079178
Ion Ratio Lower Upper
49 100
128 48.7 24.7 74.1
130 62.8 31.4 94.2

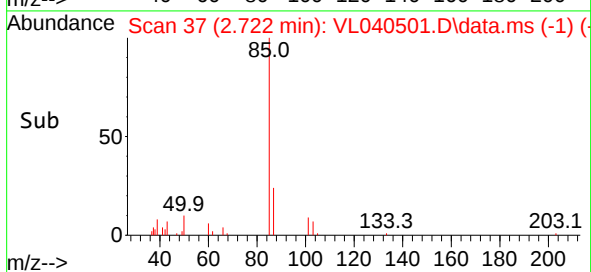
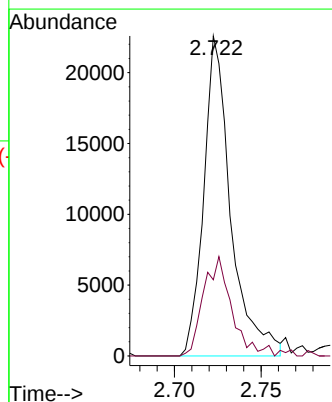
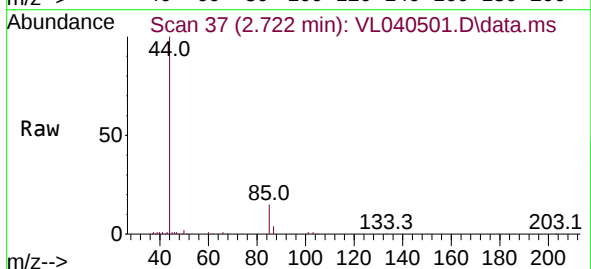
Manual Integrations
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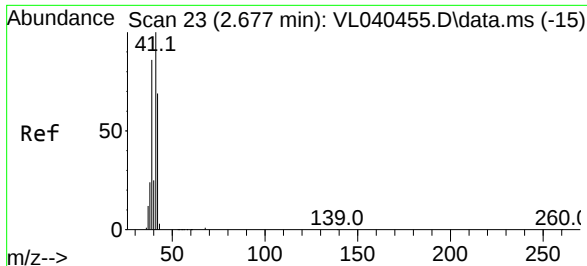
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#2
Dichlorodifluoromethane
Concen: 0.104 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.006 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

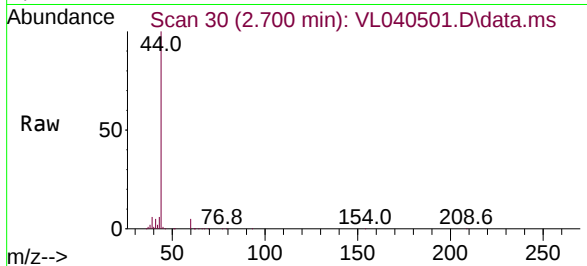
Tgt Ion: 85 Resp: 24518
Ion Ratio Lower Upper
85 100
87 23.8 26.6 39.8#





#9
Propene
Concen: 0.475 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.022 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

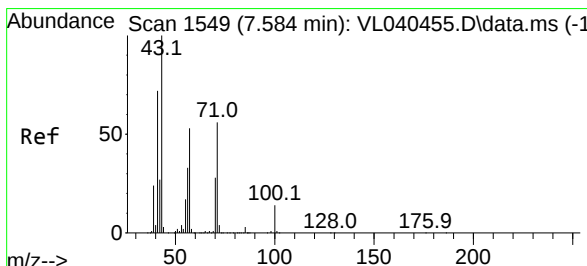
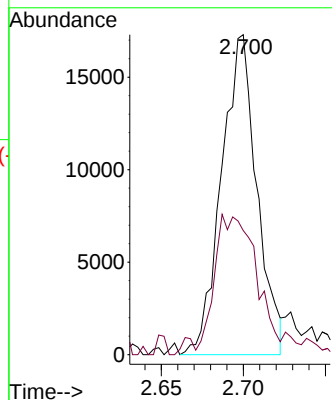
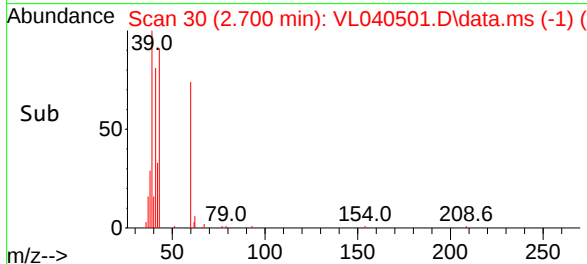
Instrument :
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SV-4DL



Tgt Ion: 41 Resp: 25870
Ion Ratio Lower Upper
41 100
42 59.1 56.2 84.2

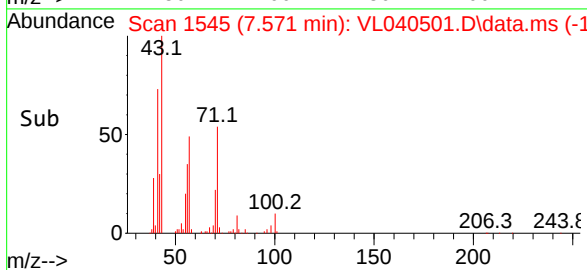
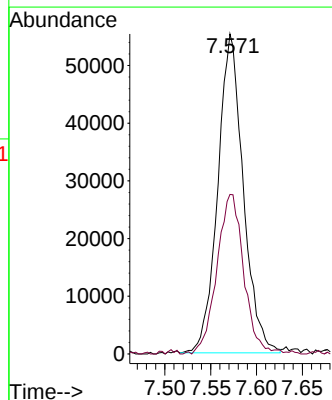
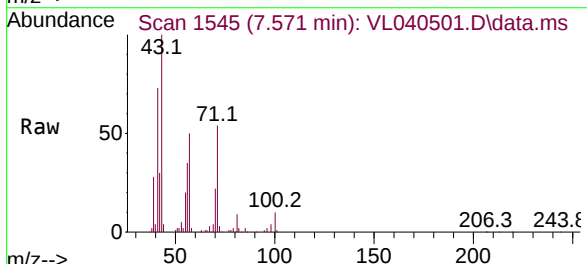
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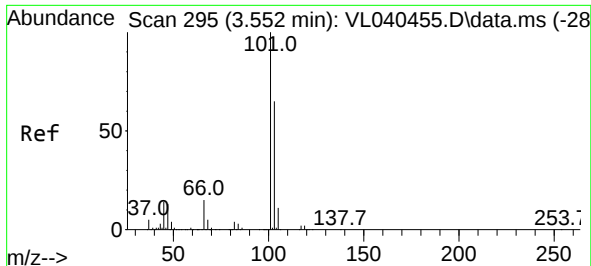
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#10
Heptane
Concen: 0.866 ppbv
RT: 7.571 min Scan# 1545
Delta R.T. -0.013 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

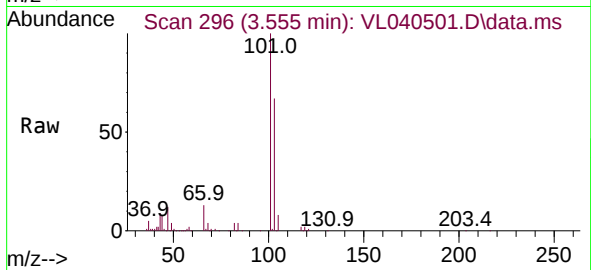
Tgt Ion: 43 Resp: 106791
Ion Ratio Lower Upper
43 100
57 53.6 42.5 63.7





#11
 Trichlorofluoromethane
 Concen: 0.985 ppbv
 RT: 3.555 min Scan# 295
 Delta R.T. 0.003 min
 Lab File: VL040501.D
 Acq: 23 Jun 2023 10:13

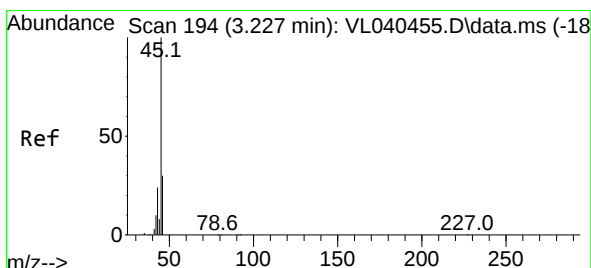
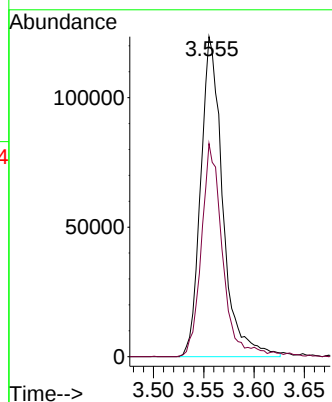
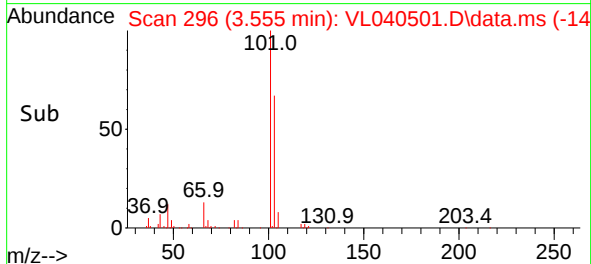
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL



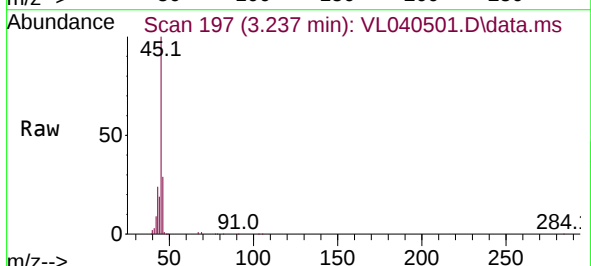
Tgt Ion:101 Resp: 188459
 Ion Ratio Lower Upper
 101 100
 103 66.3 51.7 77.5

Manual Integrations
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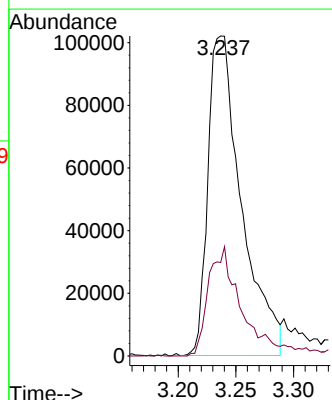
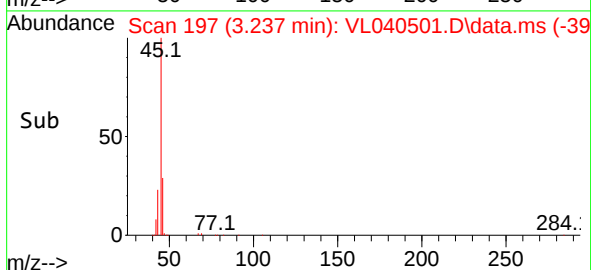
Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

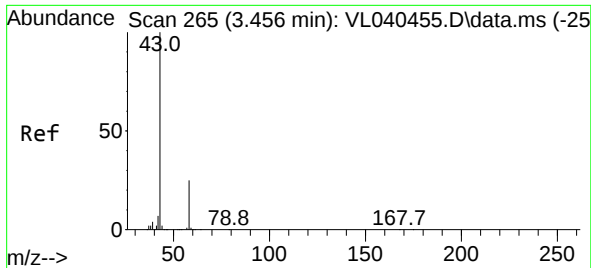


#13
 Ethanol
 Concen: 18.293 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.010 min
 Lab File: VL040501.D
 Acq: 23 Jun 2023 10:13



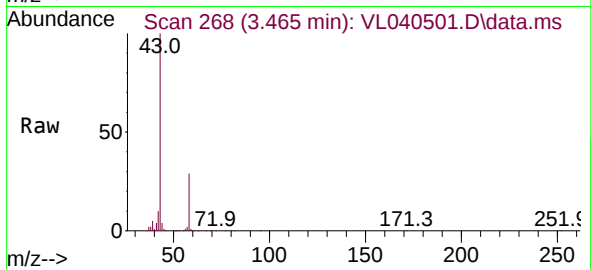
Tgt Ion: 45 Resp: 206482
 Ion Ratio Lower Upper
 45 100
 46 37.0 14.5 58.1





#15
Acetone
Concen: 5.461 ppbv m
RT: 3.465 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

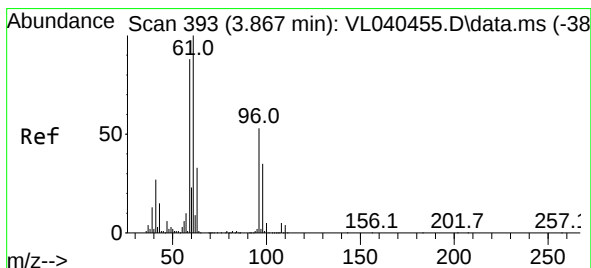
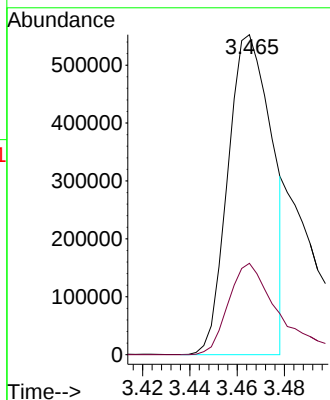
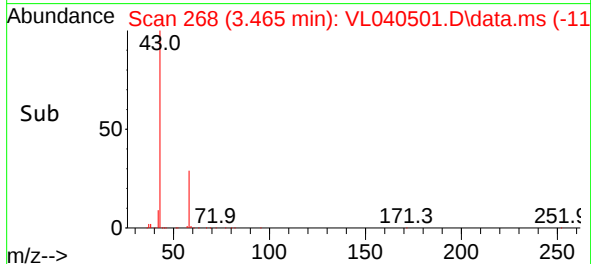
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL



Tgt Ion: 43 Resp: 710878
Ion Ratio Lower Upper
43 100
58 36.2 21.6 32.4

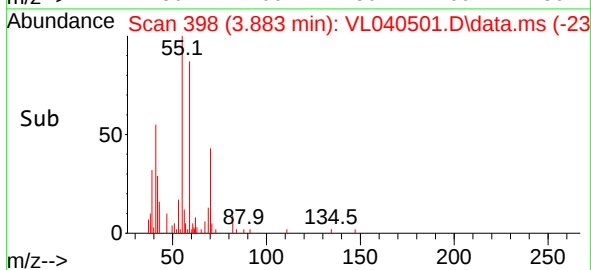
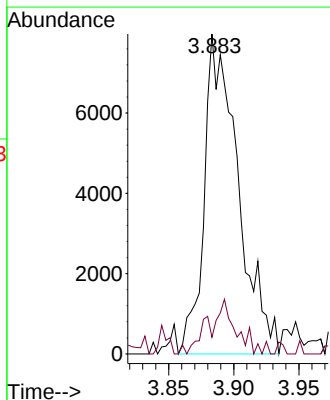
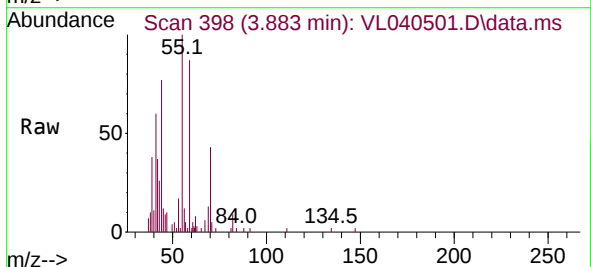
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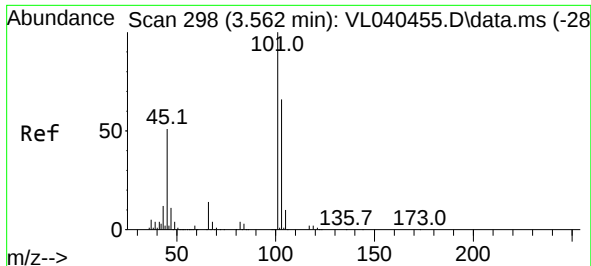
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#17
tert-Butyl alcohol
Concen: 0.134 ppbv m
RT: 3.883 min Scan# 398
Delta R.T. 0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

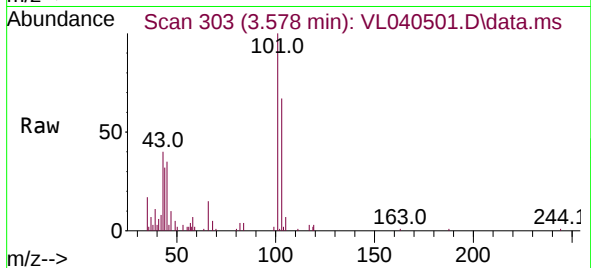
Tgt Ion: 59 Resp: 14375
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2





#19
Isopropyl Alcohol
Concen: 0.247 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

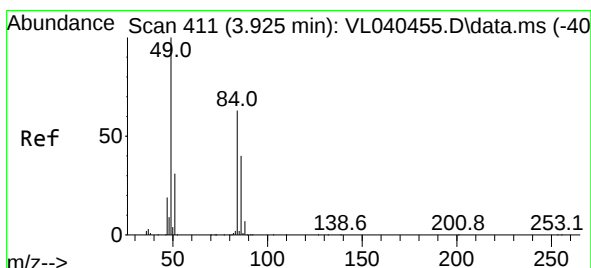
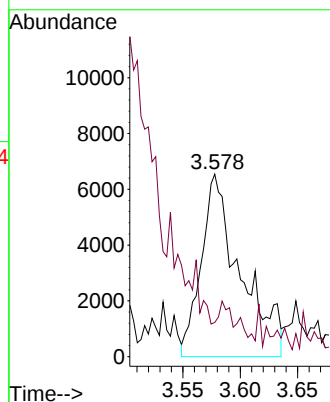
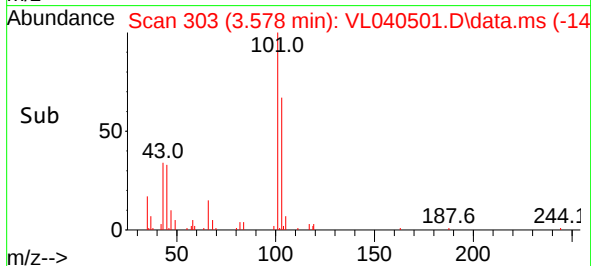
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL



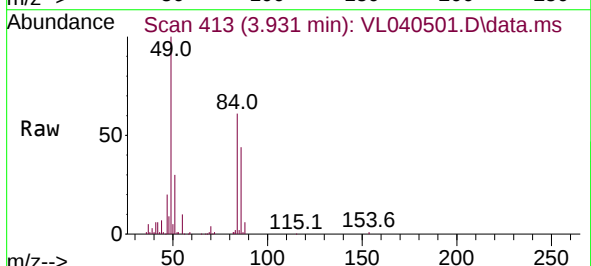
Tgt Ion: 45 Resp: 1549
Ion Ratio Lower Upper
45 100
58 1662.8 2.6 4.0

Manual Integrations
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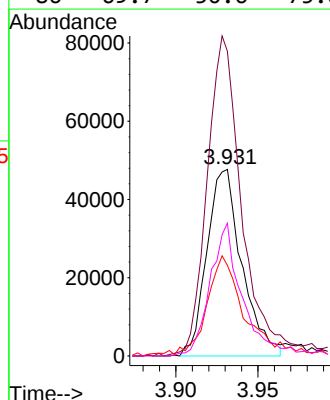
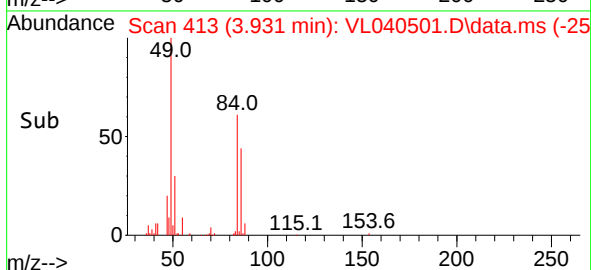
Reviewed By :Semsettin Yesilyurt 06/26/2023
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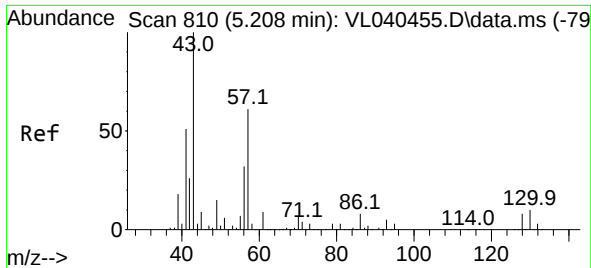


#20
Methylene Chloride
Concen: 1.272 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.006 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13



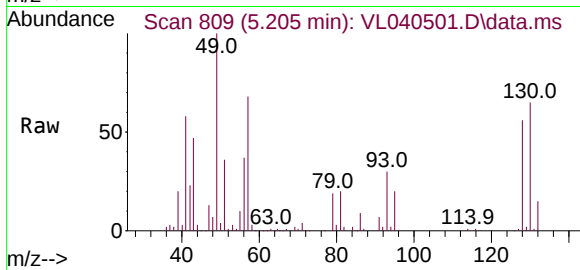
Tgt Ion: 84 Resp: 70682
Ion Ratio Lower Upper
84 100
49 161.1 126.2 189.2
51 43.9 38.7 58.1
86 69.7 50.6 75.8





#26
Hexane
Concen: 1.586 ppbv
RT: 5.205 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

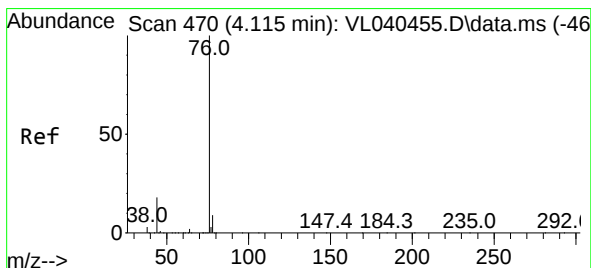
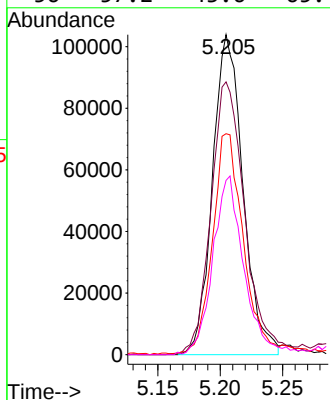
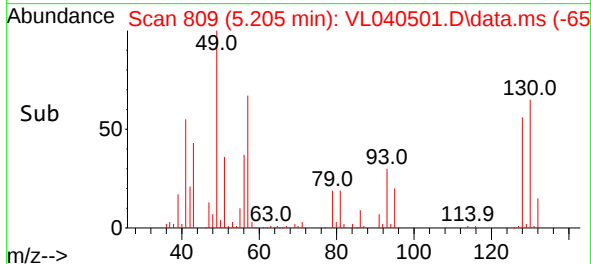
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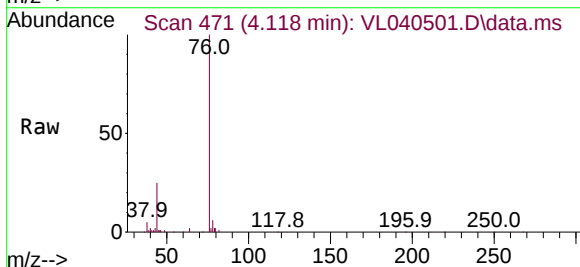
Tgt Ion: 57 Resp: 177154
Ion Ratio Lower Upper
57 100
41 95.9 73.0 109.6
43 73.7 177.5 266.3
56 57.2 43.6 65.4

Manual Integrations
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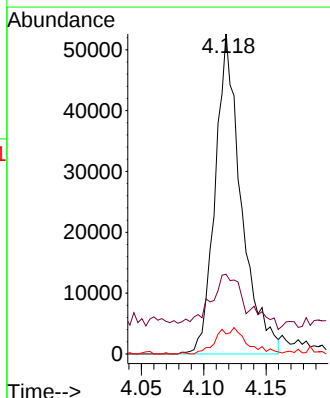
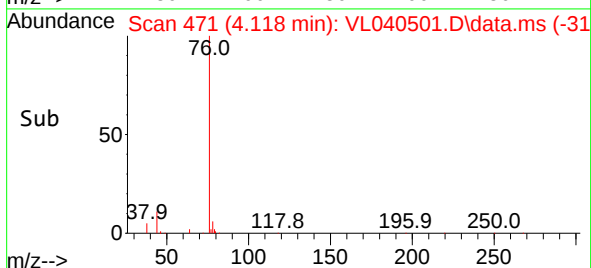
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

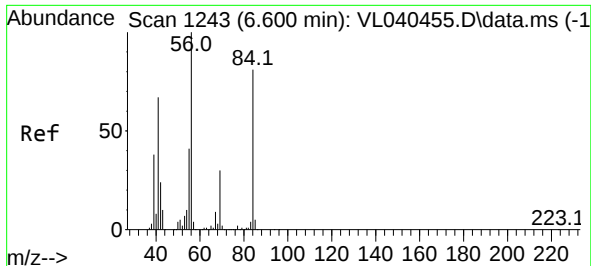


#27
Carbon Disulfide
Concen: 0.549 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13



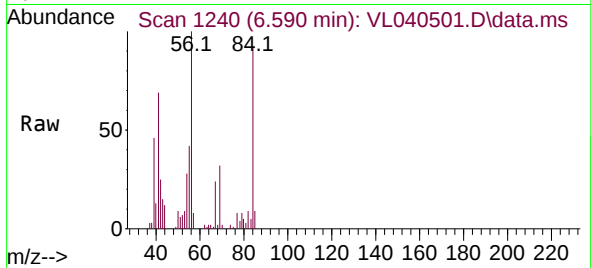
Tgt Ion: 76 Resp: 76620
Ion Ratio Lower Upper
76 100
44 23.7 14.6 22.0#
78 10.8 7.6 11.4





#30
Cyclohexane
Concen: 0.383 ppbv m
RT: 6.590 min Scan# 1243
Delta R.T. -0.010 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

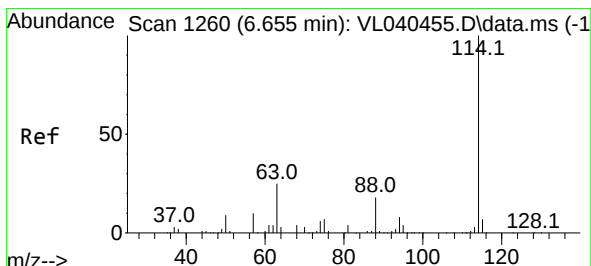
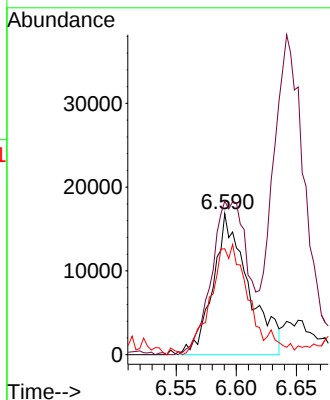
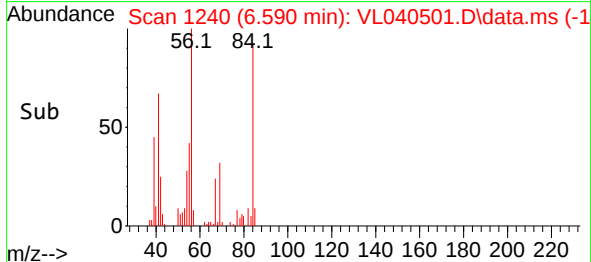
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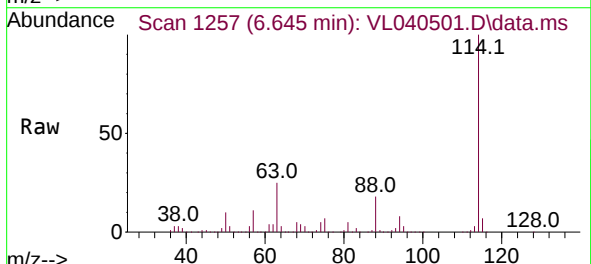
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Ion Ratio Lower Upper
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56 109.5 106.0 159.0
41 83.1 66.8 100.2

Manual Integrations
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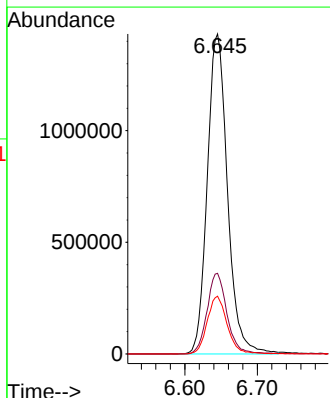
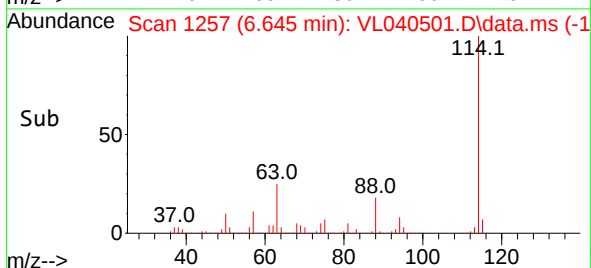
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

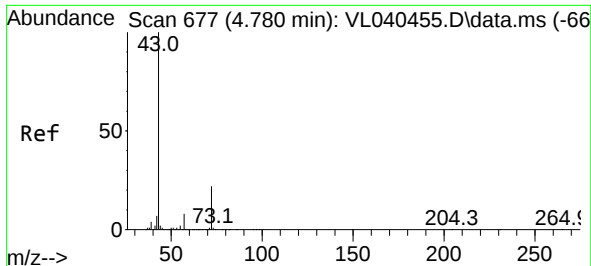


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13



Tgt Ion:114 Resp: 2775408
Ion Ratio Lower Upper
114 100
63 25.0 21.0 31.6
88 17.9 14.5 21.7





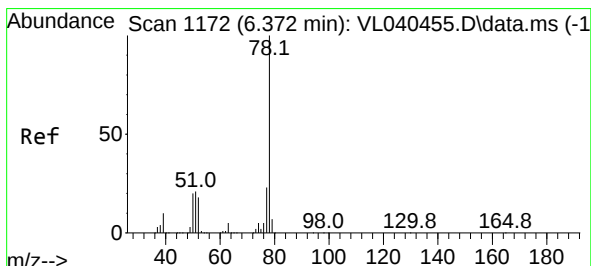
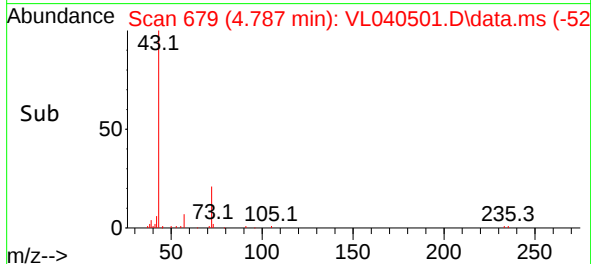
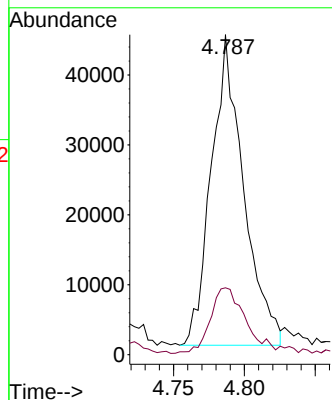
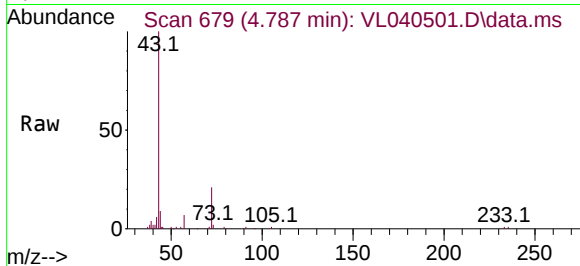
#34
2-Butanone
Concen: 0.525 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

Tgt Ion: 43 Resp: 70244
Ion Ratio Lower Upper
43 100
72 26.4 18.1 27.1

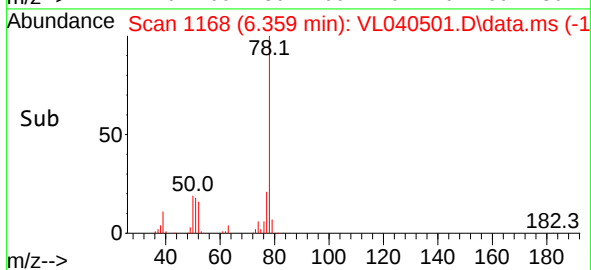
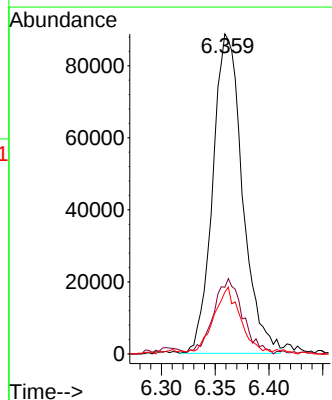
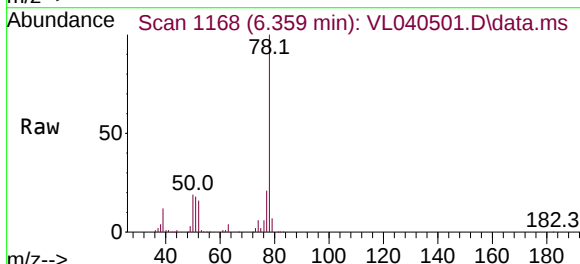
Manual Integrations
APPROVED

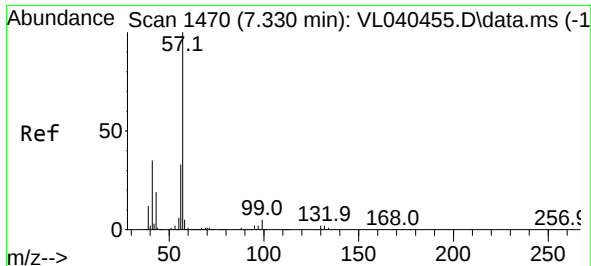
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#36
Benzene
Concen: 0.774 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.013 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

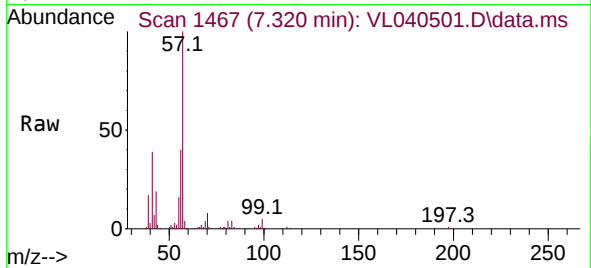
Tgt Ion: 78 Resp: 170788
Ion Ratio Lower Upper
78 100
77 20.2 18.5 27.7
50 18.4 16.1 24.1





#44
2,2,4-Trimethylpentane
Concen: 0.466 ppbv
RT: 7.320 min Scan# 1470
Delta R.T. -0.010 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

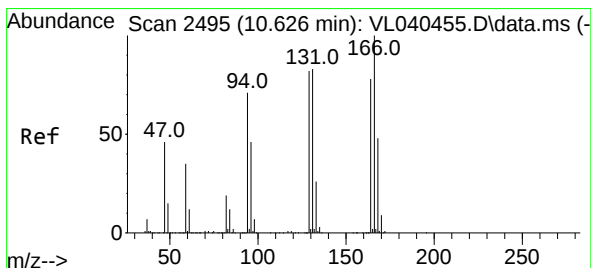
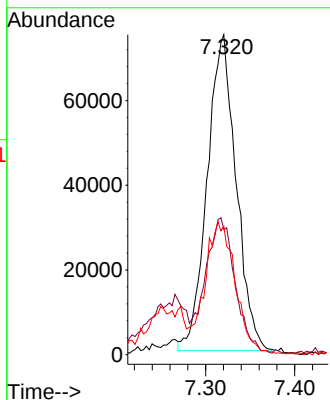
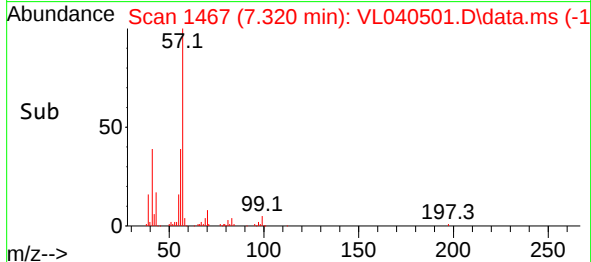
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL



Tgt Ion: 57 Resp: 168020
Ion Ratio Lower Upper
57 100
41 44.6 27.8 41.8
56 45.0 25.3 37.9

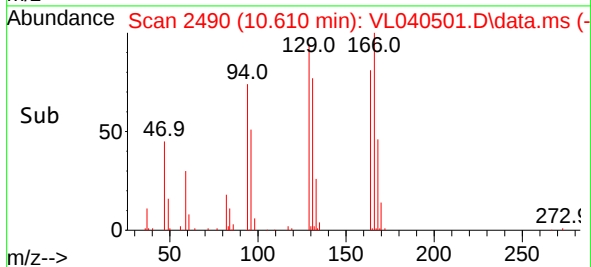
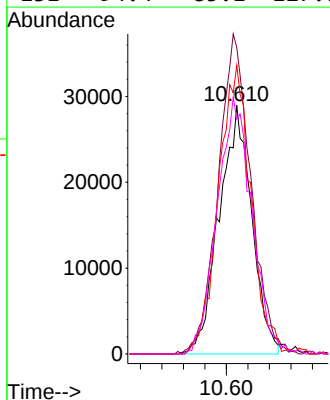
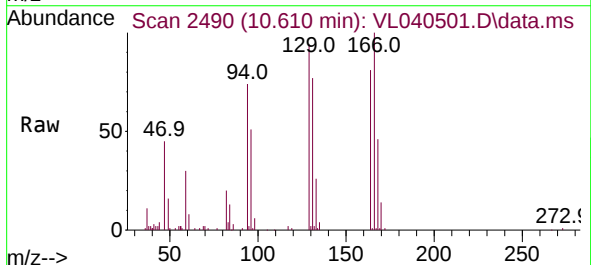
Manual Integrations
APPROVED

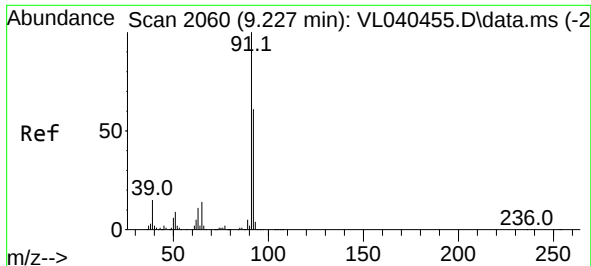
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#52
Tetrachloroethene
Concen: 0.876 ppbv
RT: 10.610 min Scan# 2490
Delta R.T. -0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Tgt Ion:164 Resp: 60709
Ion Ratio Lower Upper
164 100
166 122.2 102.7 154.1
129 116.0 84.6 126.8
131 94.4 85.1 127.7





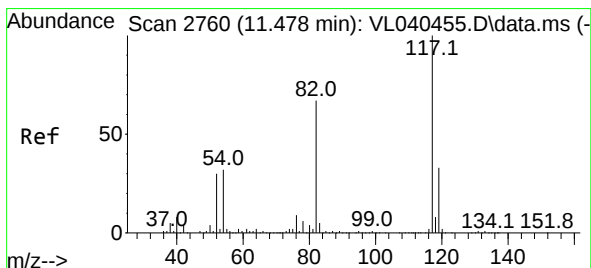
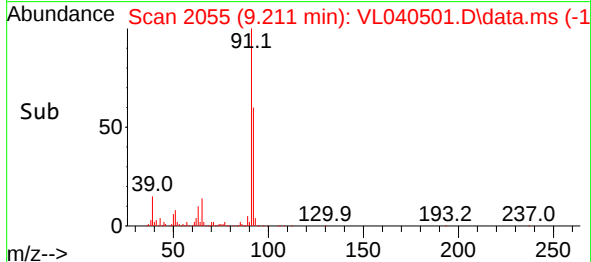
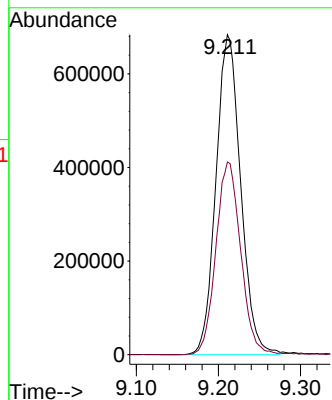
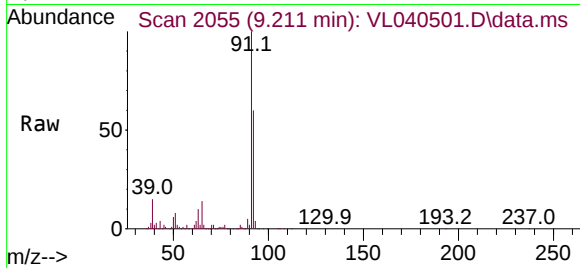
#53
Toluene
Concen: 6.162 ppbv
RT: 9.211 min Scan# 2060
Delta R.T. -0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

Tgt Ion: 91 Resp: 143289
Ion Ratio Lower Upper
91 100
92 61.0 49.1 73.7

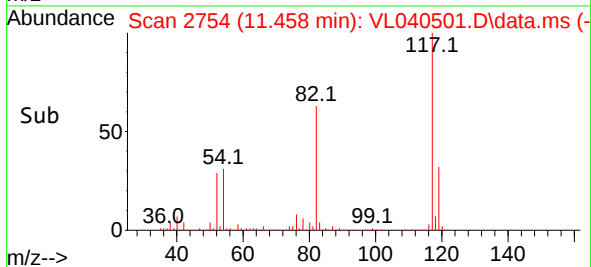
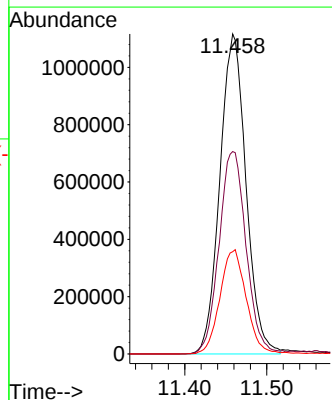
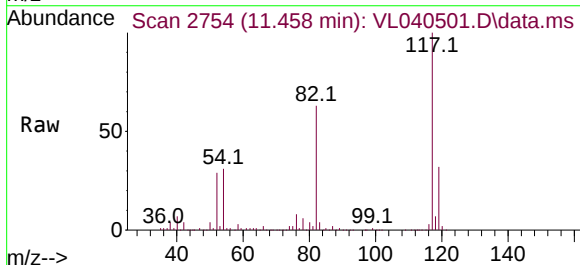
Manual Integrations
APPROVED

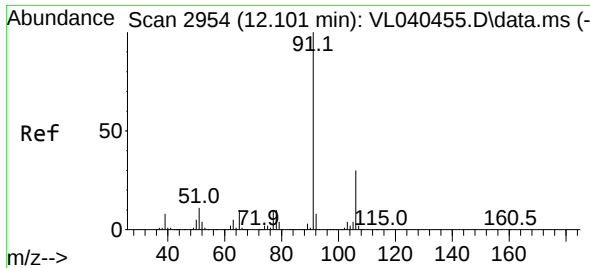
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. -0.019 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Tgt Ion:117 Resp: 2474865
Ion Ratio Lower Upper
117 100
82 65.9 53.0 79.4
119 33.3 24.4 36.6





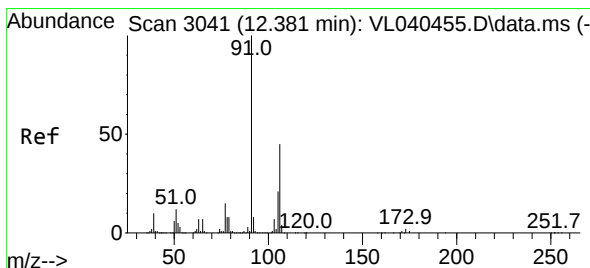
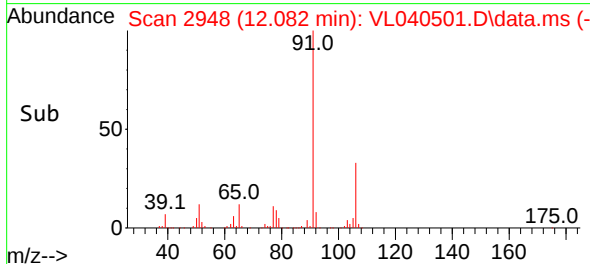
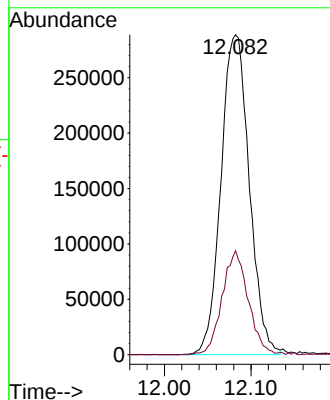
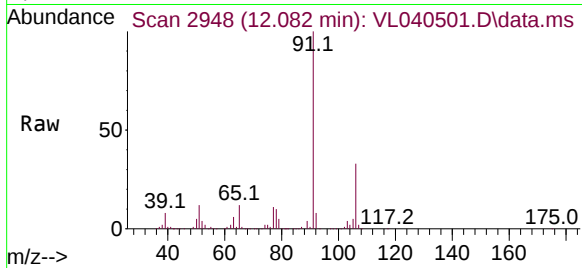
#58
Ethyl Benzene
Concen: 2.189 ppbv
RT: 12.082 min Scan# 2954
Delta R.T. -0.019 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Instrument : MSVOA_L
ClientSampleId : SV-4DL

Tgt Ion: 91 Resp: 656262
Ion Ratio Lower Upper
91 100
106 32.5 23.7 35.5

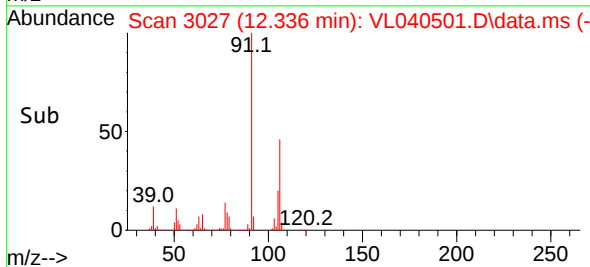
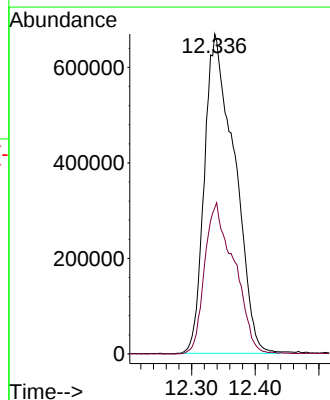
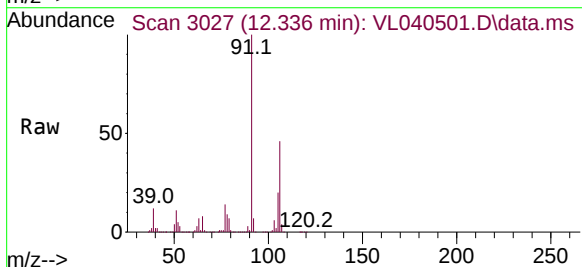
Manual Integrations
APPROVED

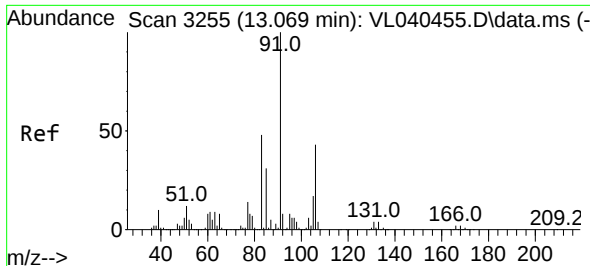
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#59
m/p-Xylene
Concen: 7.973 ppbv
RT: 12.336 min Scan# 3027
Delta R.T. -0.045 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Tgt Ion: 91 Resp: 2197149
Ion Ratio Lower Upper
91 100
106 46.7 34.6 52.0





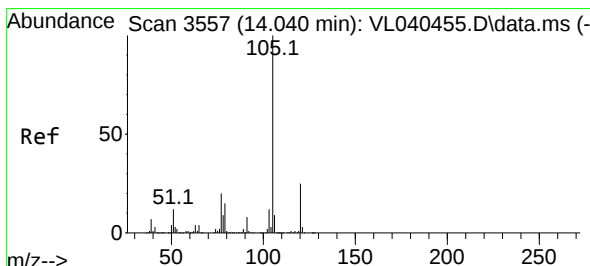
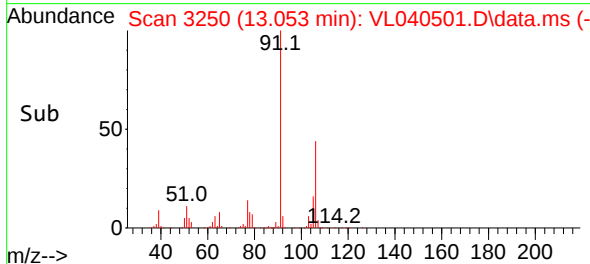
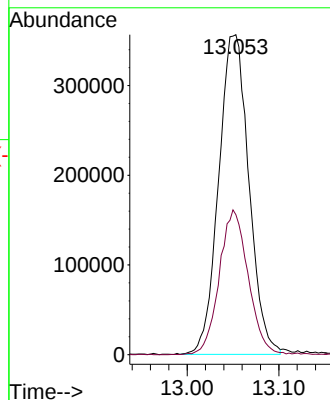
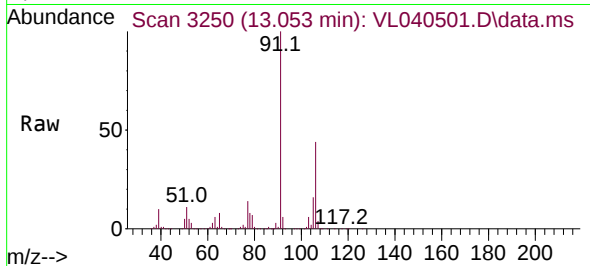
#60
o-Xylene
Concen: 3.114 ppbv
RT: 13.053 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

Tgt Ion: 91 Resp: 81386
Ion Ratio Lower Upper
91 100
106 43.7 22.1 66.1

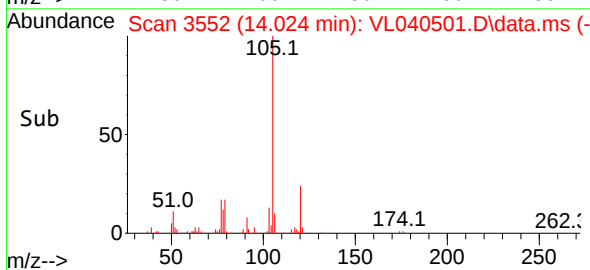
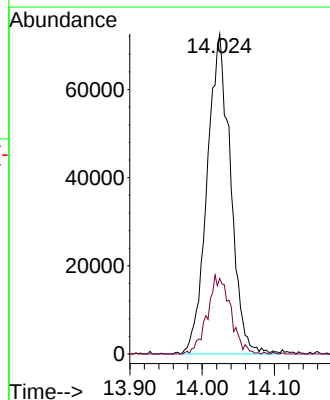
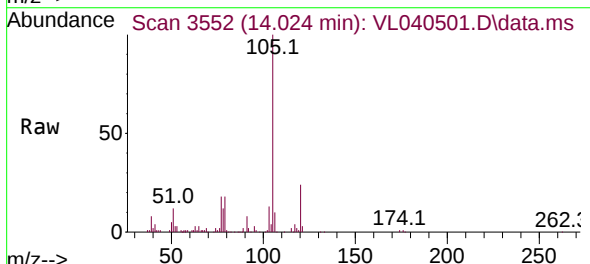
Manual Integrations
APPROVED

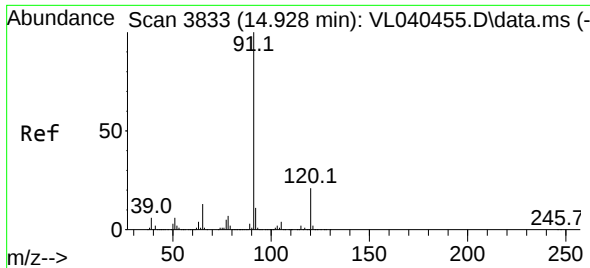
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#62
Isopropylbenzene
Concen: 0.421 ppbv m
RT: 14.024 min Scan# 3552
Delta R.T. -0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

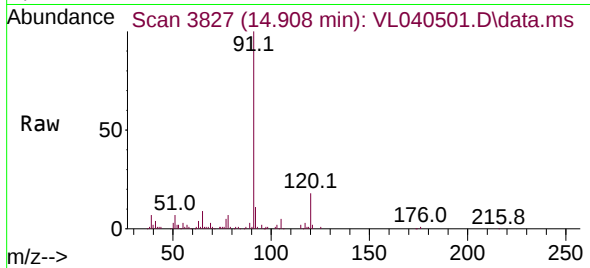
Tgt Ion:105 Resp: 163607
Ion Ratio Lower Upper
105 100
120 0.8 20.2 30.4#





#64
n-propylbenzene
Concen: 0.341 ppbv m
RT: 14.908 min Scan# 3827
Delta R.T. -0.019 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

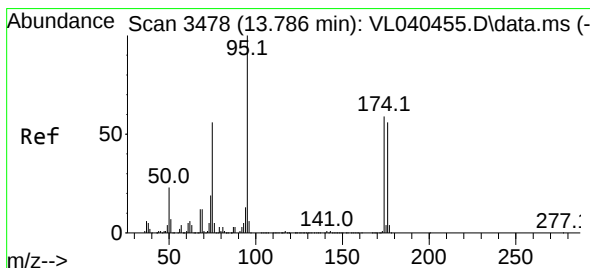
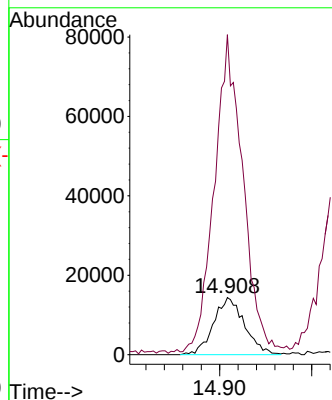
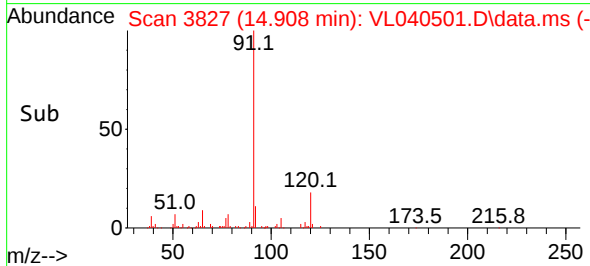
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL



Tgt Ion:120 Resp: 3361
Ion Ratio Lower Upper
120 100
91 0.0 388.5 582.7

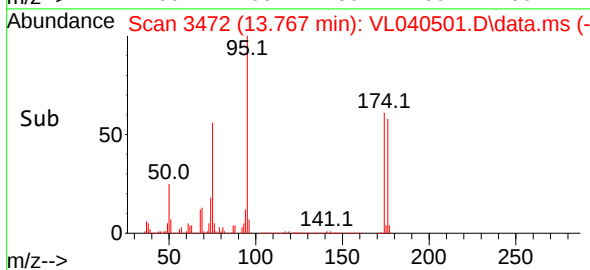
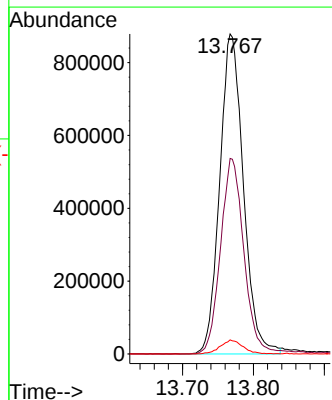
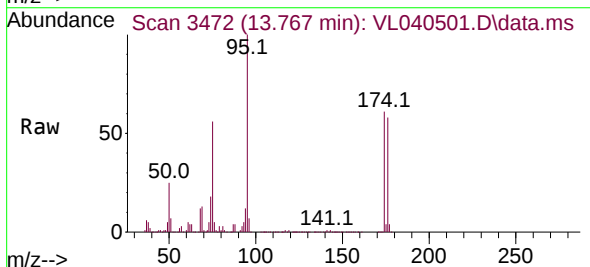
Manual Integrations
APPROVED

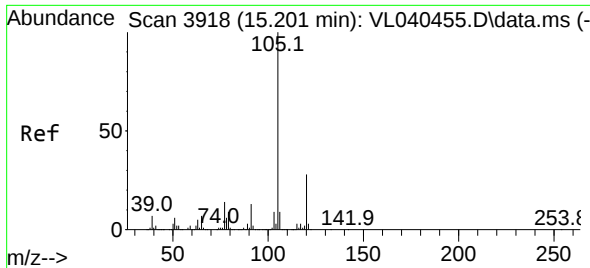
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.974 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.019 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Tgt Ion: 95 Resp: 2037323
Ion Ratio Lower Upper
95 100
174 61.6 47.7 71.5
175 4.3 3.5 5.3





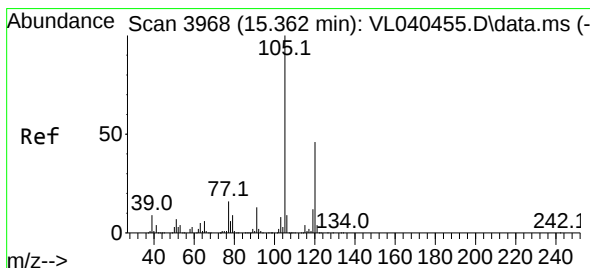
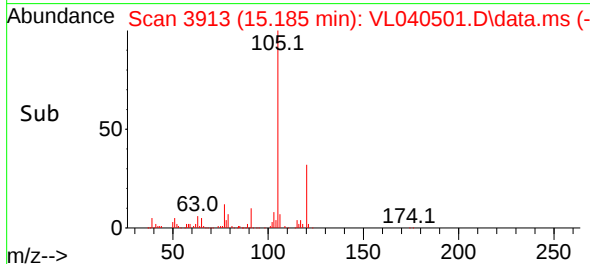
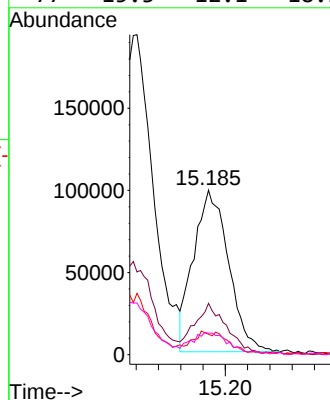
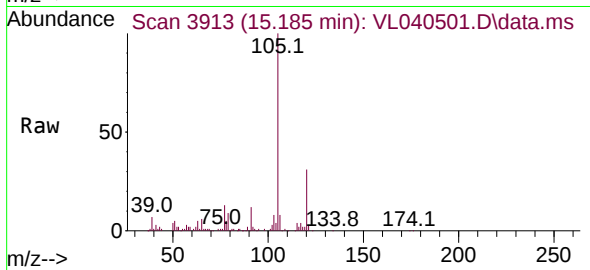
#72
4-Ethyltoluene
Concen: 0.731 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. -0.016 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

Tgt Ion:105 Resp: 21533
Ion Ratio Lower Upper
105 100
120 30.7 23.4 35.0
91 14.7 11.1 16.7
77 15.3 12.1 18.1

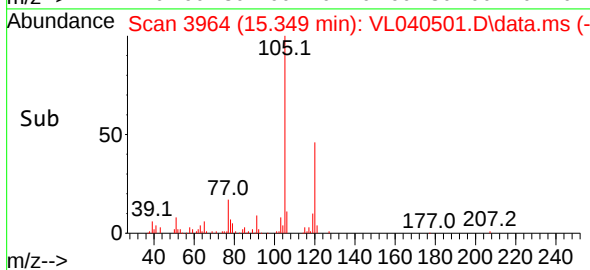
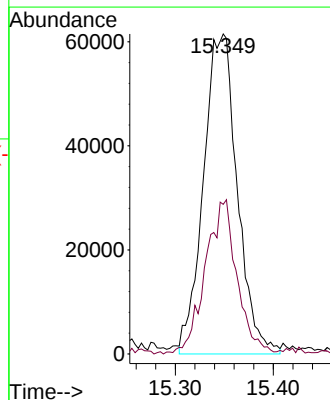
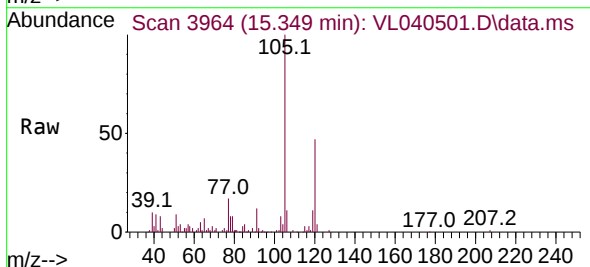
Manual Integrations
APPROVED

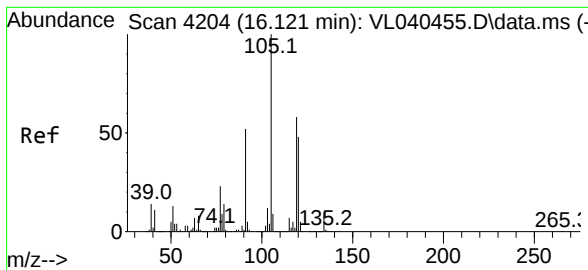
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#73
1,3,5-Trimethylbenzene
Concen: 0.569 ppbv m
RT: 15.349 min Scan# 3964
Delta R.T. -0.013 min
Lab File: VL040501.D
Acq: 23 Jun 2023 10:13

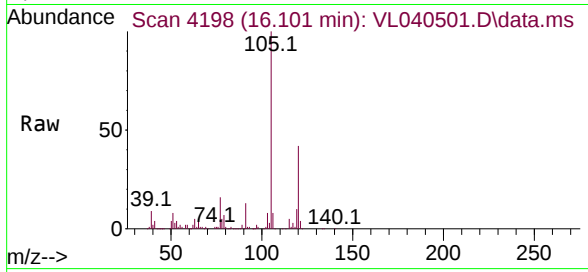
Tgt Ion:105 Resp: 148030
Ion Ratio Lower Upper
105 100
120 46.7 36.4 54.6





#74
 1,2,4-Trimethylbenzene
 Concen: 2.222 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. -0.019 min
 Lab File: VL040501.D
 Acq: 23 Jun 2023 10:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL



Tgt Ion:	105	Resp:	68014
Ion	Ratio	Lower	Upper
105	100		
120	42.2	38.4	57.6
91	12.7	41.3	61.9
77	15.2	18.6	28.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

