

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
 Data File : VL040909.D
 Acq On : 27 Nov 2023 16:01
 Operator : SY/MD
 Sample : 05520-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/28/2023
 Supervised By :Mahesh Dadoda 11/28/2023

Quant Time: Nov 28 04:38:59 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Tue Nov 28 04:31:59 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.230	49	1210506	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.680	114	2886883	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2553169	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.789 95 1961884 9.815 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.100%

Target Compounds

					Qvalue	
4) Chloromethane	2.864	50	13331m	0.192	ppbv	
5) Vinyl Chloride	2.970	62	4469	0.065	ppbv #	66
9) Propene	2.745	41	676425	10.385	ppbv	92
10) Heptane	7.603	43	65049	0.406	ppbv #	83
13) Ethanol	3.288	45	308590	24.399	ppbv #	100
15) Acetone	3.517	43	1776322	13.778	ppbv #	89
17) tert-Butyl alcohol	3.928	59	116284	1.055	ppbv	94
19) Isopropyl Alcohol	3.629	45	65802m	0.848	ppbv	
20) Methylene Chloride	3.983	84	631320	11.866	ppbv	99
26) Hexane	5.250	57	411773	3.485	ppbv #	54
27) Carbon Disulfide	4.166	76	62596	0.418	ppbv #	58
30) Cyclohexane	6.639	84	15837m	0.156	ppbv	
34) 2-Butanone	4.822	43	2636777	17.929	ppbv	100
36) Benzene	6.404	78	85045	0.363	ppbv	97
41) Tetrahydrofuran	5.600	42	31736m	0.350	ppbv	
44) 2,2,4-Trimethylpentane	7.356	57	872667	2.242	ppbv	91
50) 4-Methyl-2-Pentanone	8.211	43	118531	0.521	ppbv	97
51) 2-Hexanone	9.574	43	421540	2.627	ppbv #	98
52) Tetrachloroethene	10.626	164	10107m	0.128	ppbv	
53) Toluene	9.240	91	972614	3.772	ppbv	100
58) Ethyl Benzene	12.105	91	521055	1.564	ppbv	89
59) m/p-Xylene	12.355	91	1575804m	5.555	ppbv	
60) o-Xylene	13.072	91	603654	2.235	ppbv	97
62) Isopropylbenzene	14.043	105	288210	0.722	ppbv	97
64) n-propylbenzene	14.934	120	48092m	0.481	ppbv	
72) 4-Ethyltoluene	15.207	105	231772m	0.781	ppbv	
73) 1,3,5-Trimethylbenzene	15.368	105	155012	0.590	ppbv	89
74) 1,2,4-Trimethylbenzene	16.117	105	417776	1.426	ppbv #	62

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

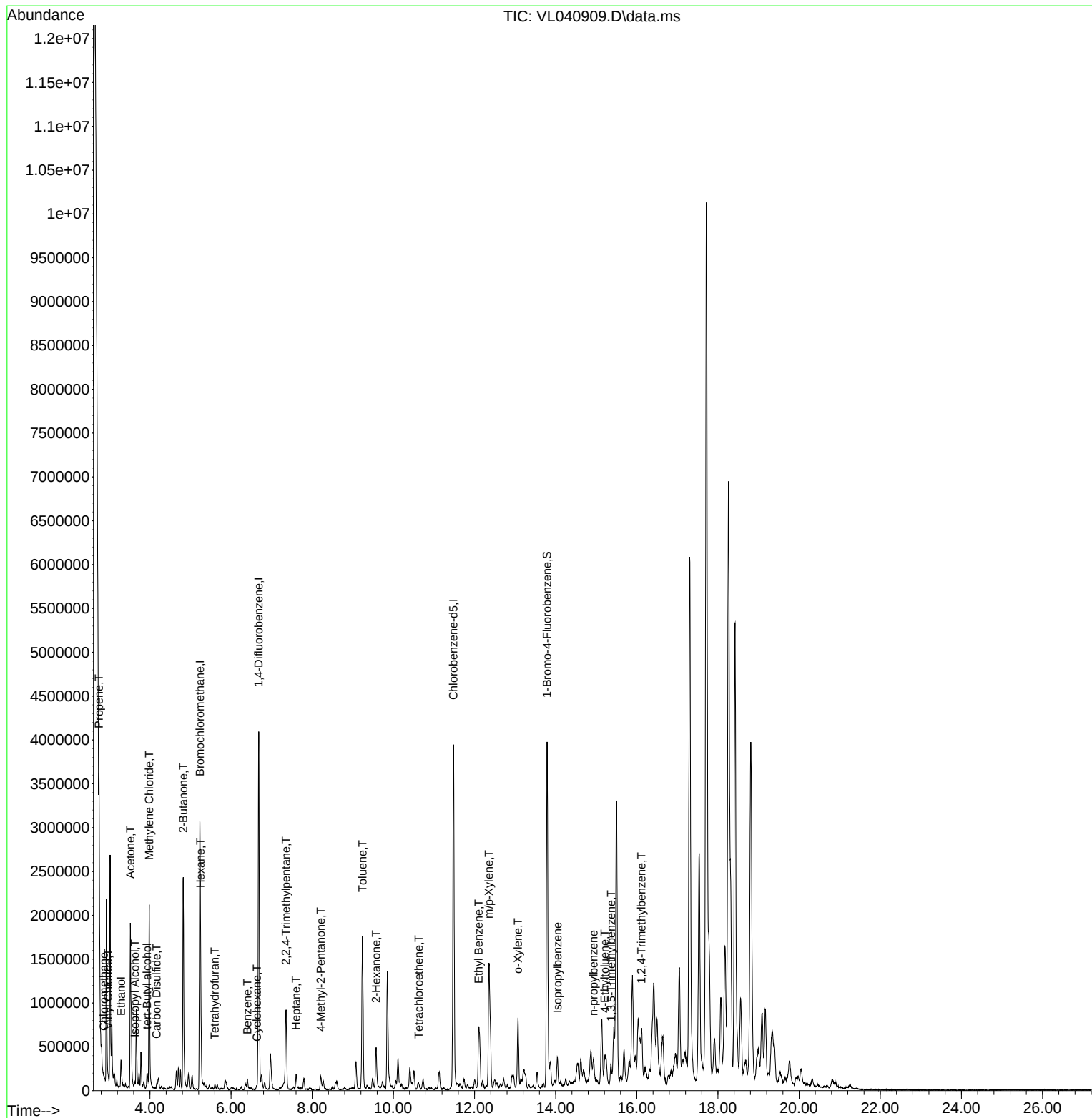
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
Data File : VL040909.D
Acq On : 27 Nov 2023 16:01
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Misc : 400mL/MSVOA_L
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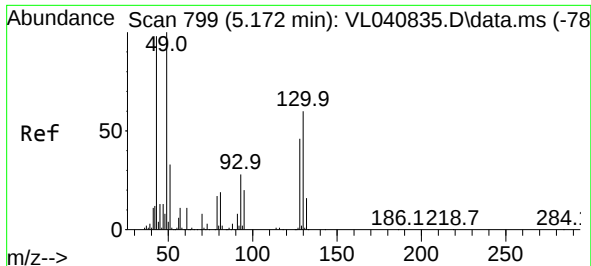
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

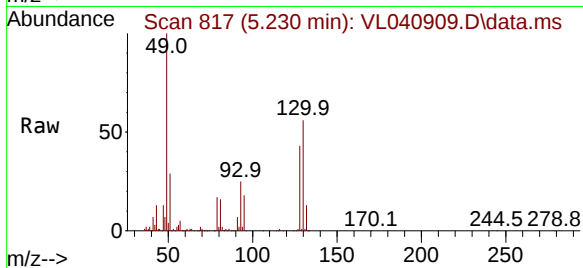
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Nov 28 04:31:59 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

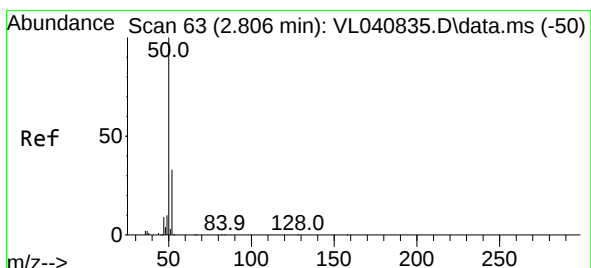
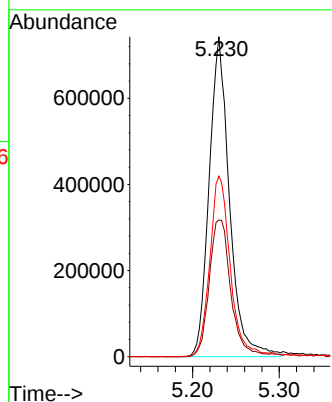
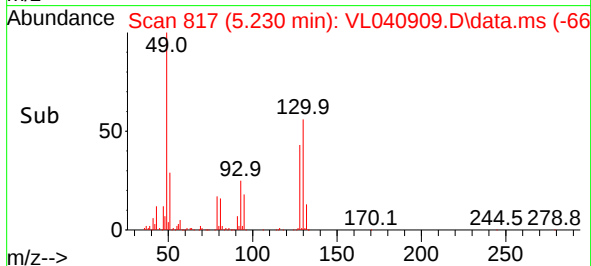
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 49 Resp: 1210500
Ion Ratio Lower Upper
49 100
128 46.1 23.8 71.2
130 58.9 30.9 92.8

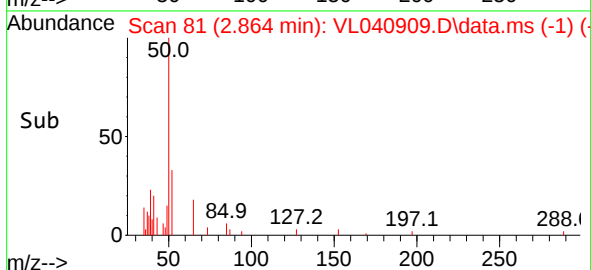
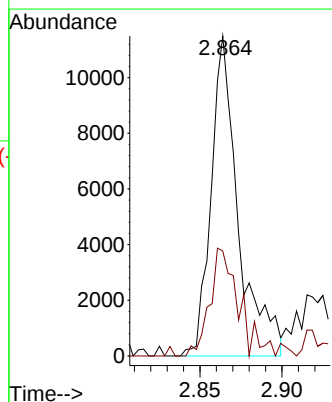
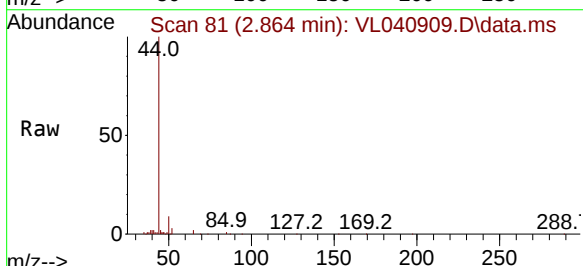
Manual Integrations
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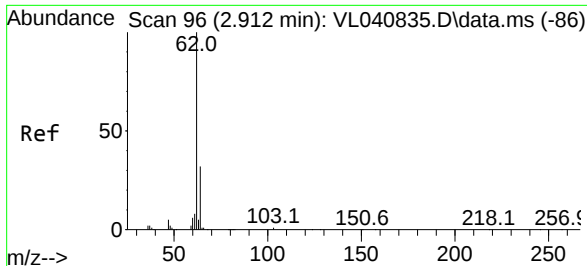
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#4
Chloromethane
Concen: 0.192 ppbv m
RT: 2.864 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

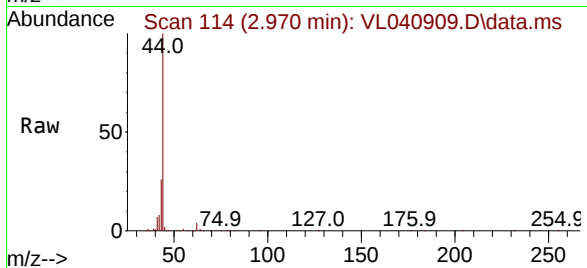
Tgt Ion: 50 Resp: 13331
Ion Ratio Lower Upper
50 100
52 32.8 26.5 39.7





#5
 Vinyl Chloride
 Concen: 0.065 ppbv
 RT: 2.970 min Scan# 114
 Delta R.T. -0.003 min
 Lab File: VL040909.D
 Acq: 27 Nov 2023 16:01

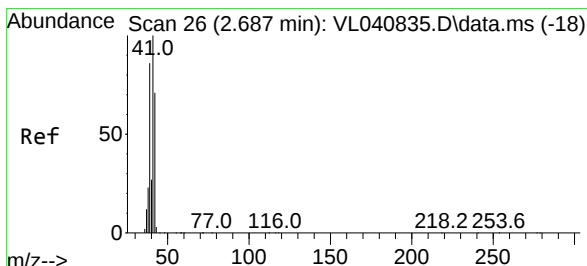
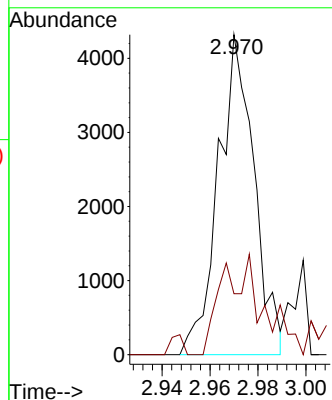
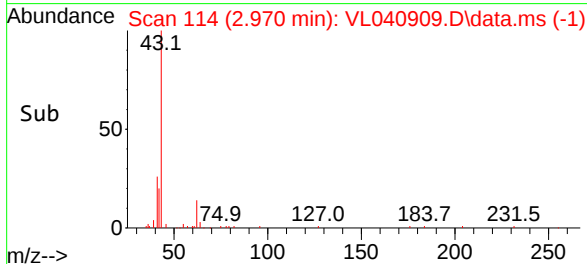
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion: 62 Resp: 4469
 Ion Ratio Lower Upper
 62 100
 64 12.8 25.4 38.2

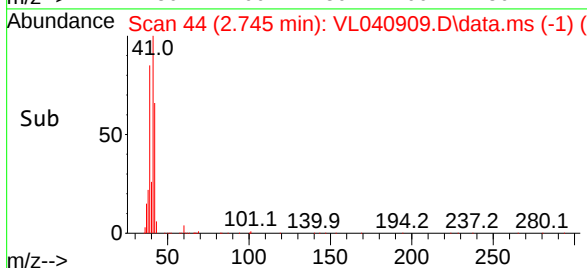
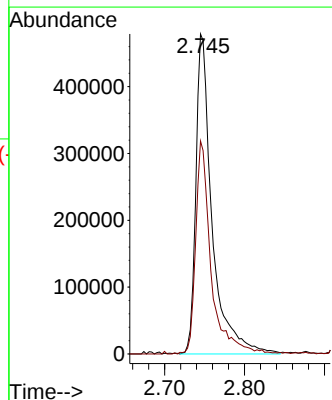
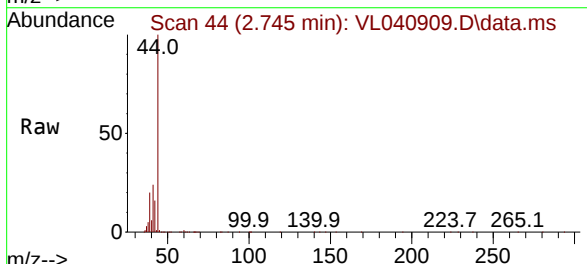
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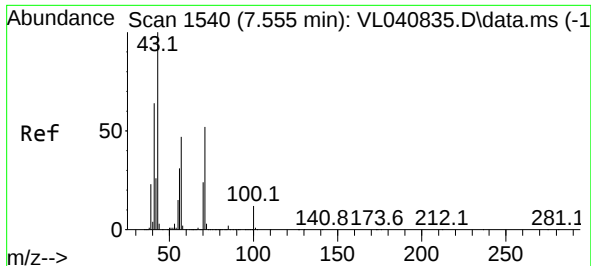
Reviewed By :Semsettin Yesilyurt 11/28/2023
 Supervised By :Mahesh Dadoda 11/28/2023



#9
 Propene
 Concen: 10.385 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. -0.003 min
 Lab File: VL040909.D
 Acq: 27 Nov 2023 16:01

Tgt Ion: 41 Resp: 676425
 Ion Ratio Lower Upper
 41 100
 42 63.6 56.5 84.7





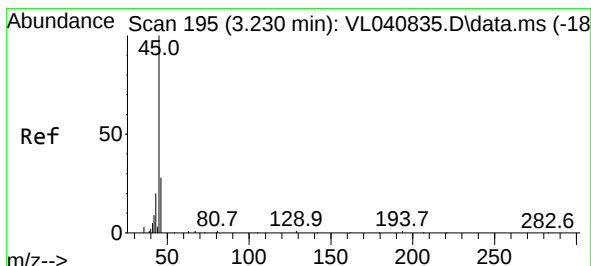
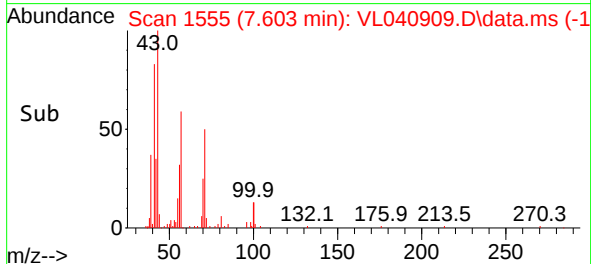
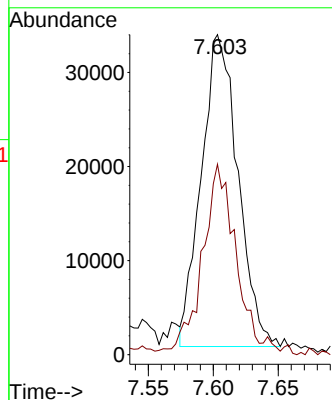
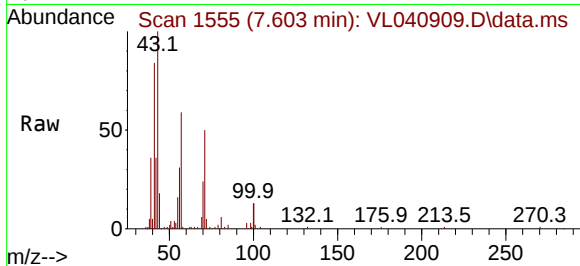
#10
Heptane
Concen: 0.406 ppbv
RT: 7.603 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 43 Resp: 65049
Ion Ratio Lower Upper
43 100
57 60.9 39.4 59.0

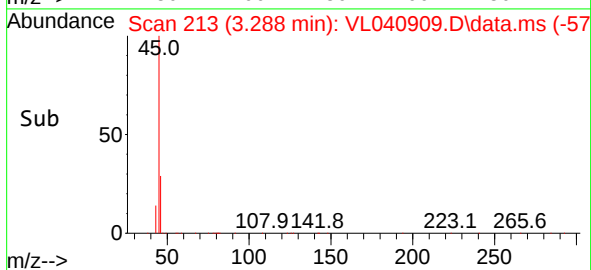
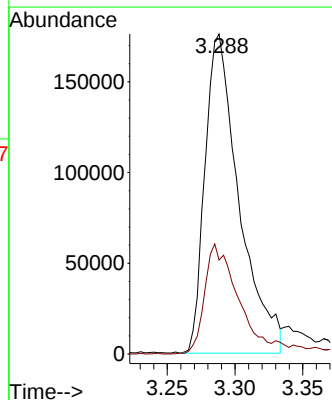
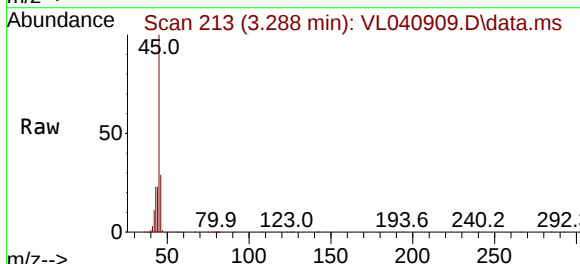
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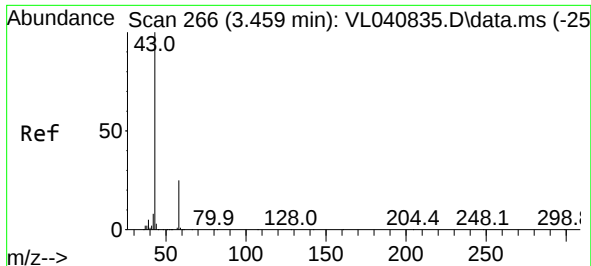
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#13
Ethanol
Concen: 24.399 ppbv
RT: 3.288 min Scan# 213
Delta R.T. 0.000 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

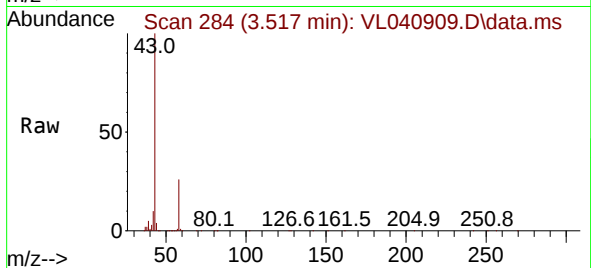
Tgt Ion: 45 Resp: 308590
Ion Ratio Lower Upper
45 100
46 38.1 0.0 0.0





#15
Acetone
Concen: 13.778 ppbv
RT: 3.517 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

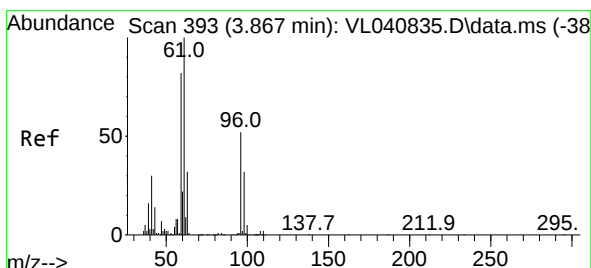
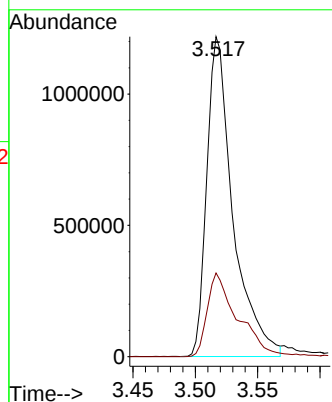
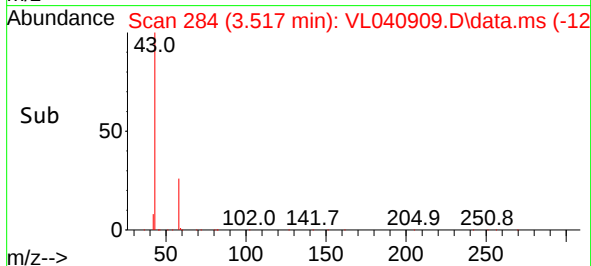
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 43 Resp: 1776322
Ion Ratio Lower Upper
43 100
58 31.6 20.9 31.3

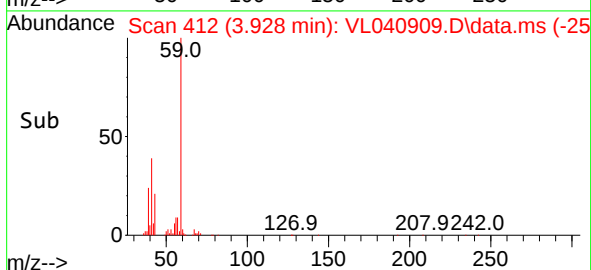
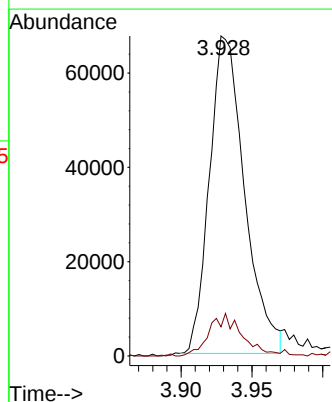
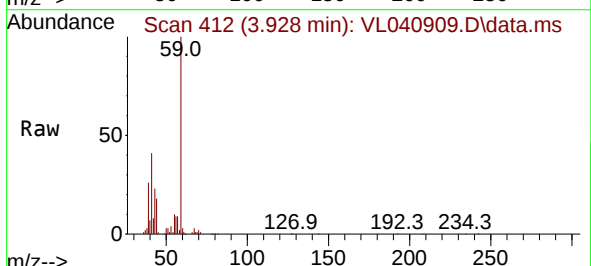
Manual Integrations
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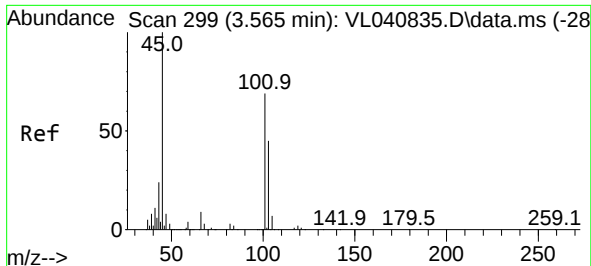
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#17
tert-Butyl alcohol
Concen: 1.055 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.006 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Tgt Ion: 59 Resp: 116284
Ion Ratio Lower Upper
59 100
57 13.4 9.0 13.4





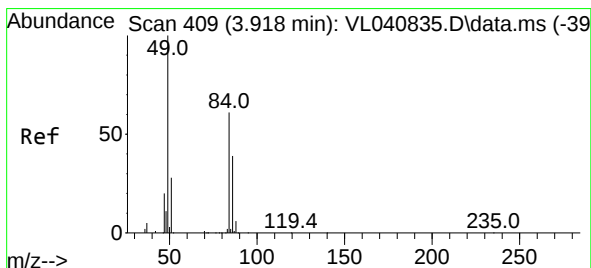
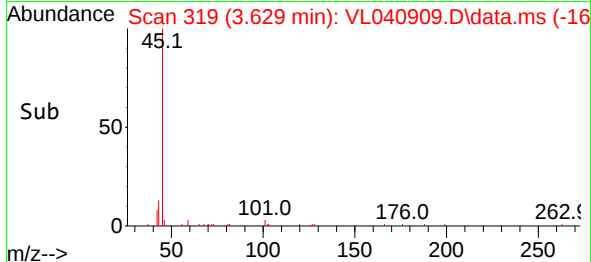
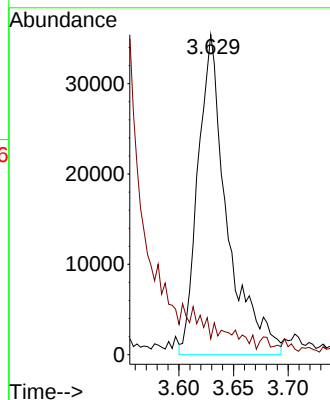
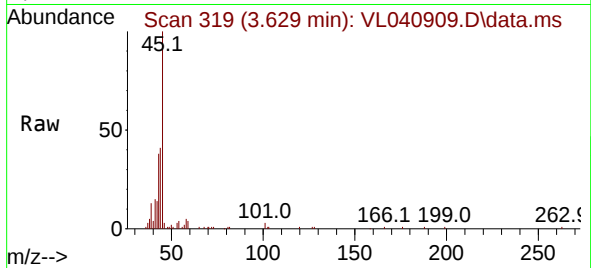
#19
Isopropyl Alcohol
Concen: 0.848 ppbv m
RT: 3.629 min Scan# 319
Delta R.T. 0.010 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 45 Resp: 65802
Ion Ratio Lower Upper
45 100
58 0.0 1.6 2.4

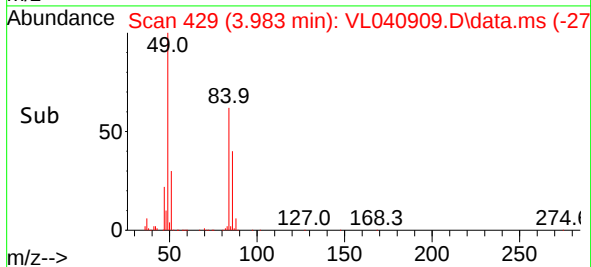
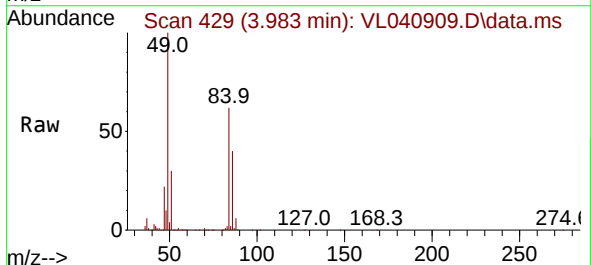
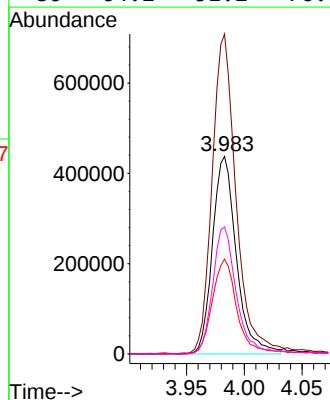
Manual Integrations
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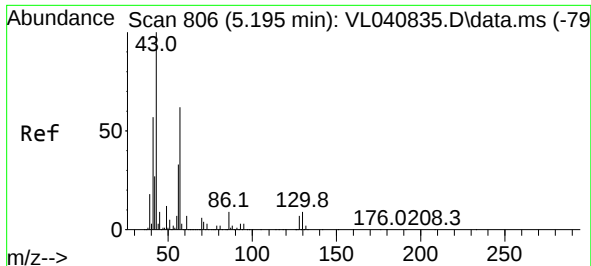
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#20
Methylene Chloride
Concen: 11.866 ppbv
RT: 3.983 min Scan# 429
Delta R.T. 0.006 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

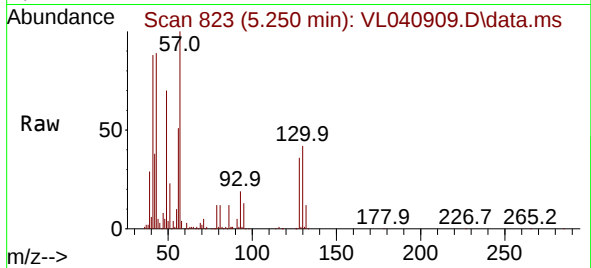
Tgt Ion: 84 Resp: 631320
Ion Ratio Lower Upper
84 100
49 161.9 131.0 196.4
51 47.7 36.9 55.3
86 64.2 51.2 76.8





#26
Hexane
Concen: 3.485 ppbv
RT: 5.250 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

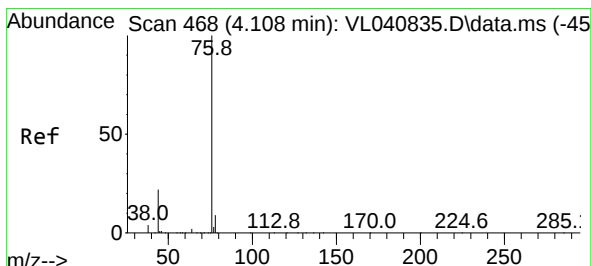
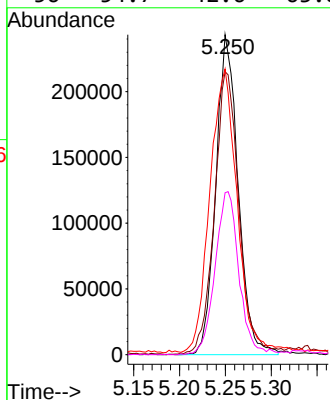
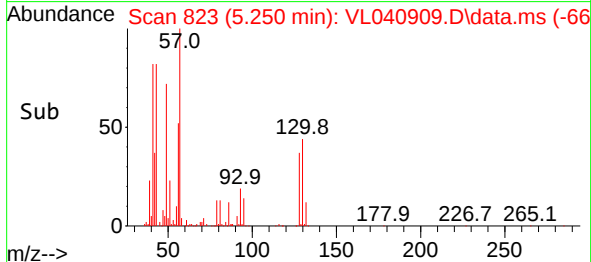
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 57 Resp: 411773
Ion Ratio Lower Upper
57 100
41 96.9 75.4 113.0
43 109.1 185.9 278.9
56 54.7 42.6 63.8

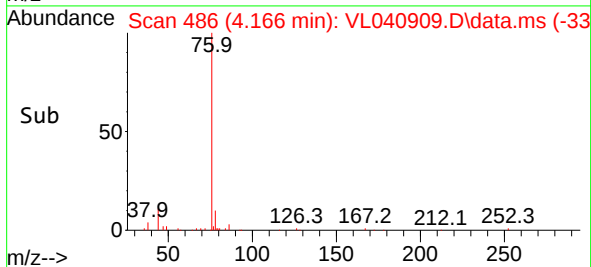
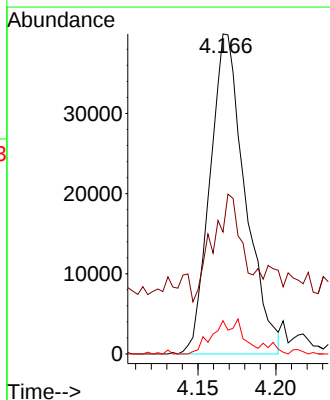
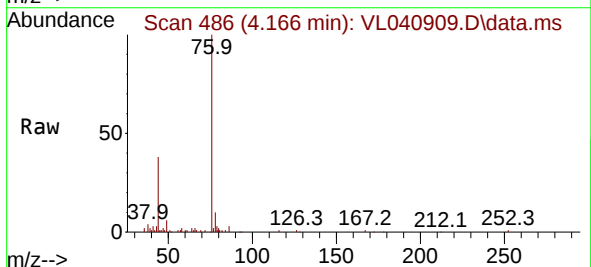
Manual Integrations
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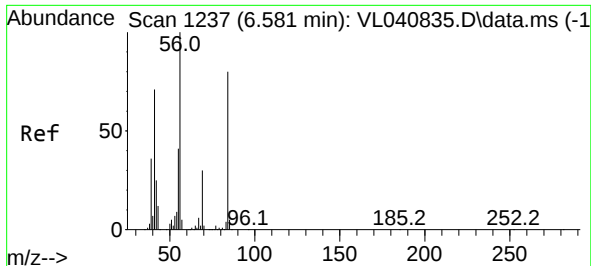
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#27
Carbon Disulfide
Concen: 0.418 ppbv
RT: 4.166 min Scan# 486
Delta R.T. 0.000 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

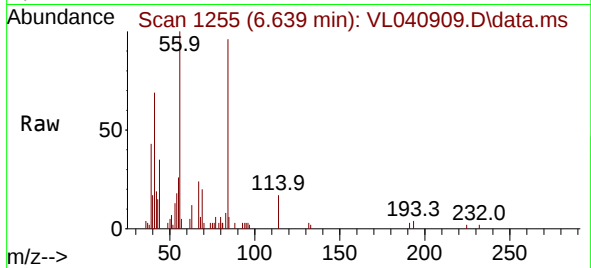
Tgt Ion: 76 Resp: 62596
Ion Ratio Lower Upper
76 100
44 48.2 16.7 25.1
78 11.2 7.6 11.4





#30
Cyclohexane
Concen: 0.156 ppbv m
RT: 6.639 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

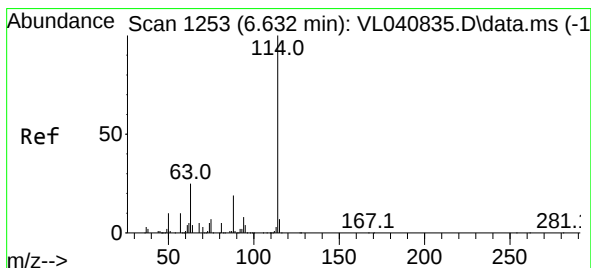
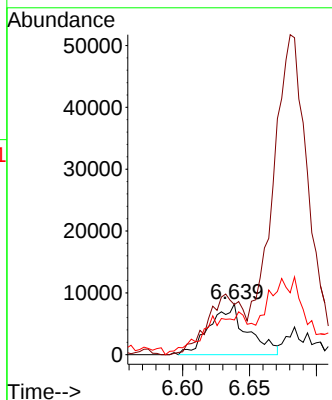
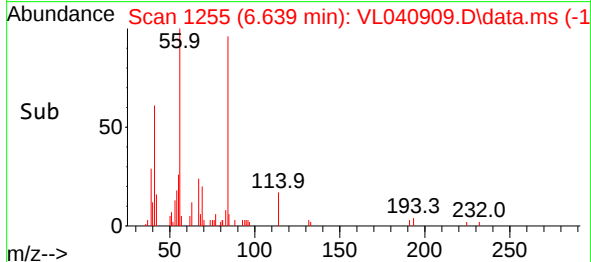
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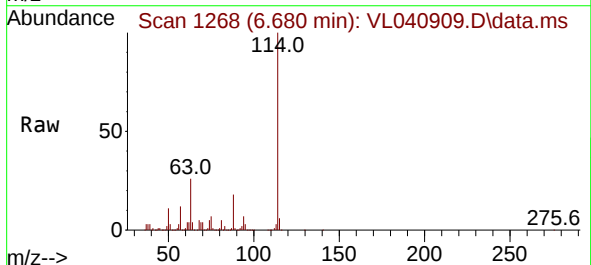
Tgt Ion: 84 Resp: 1583
Ion Ratio Lower Upper
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56 0.0 109.3 163.9
41 0.0 71.4 107.2

Manual Integrations
APPROVED

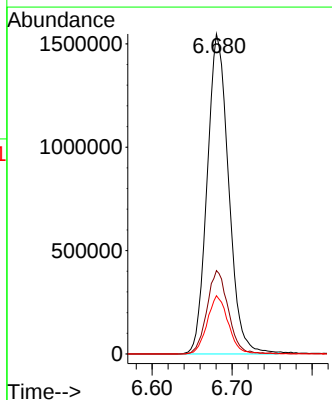
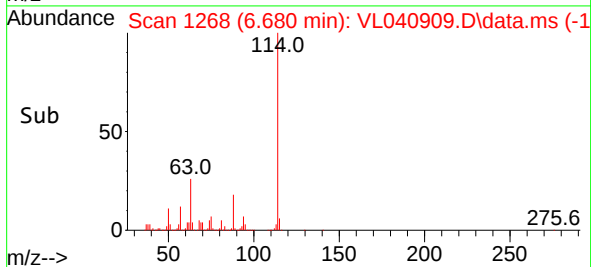
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

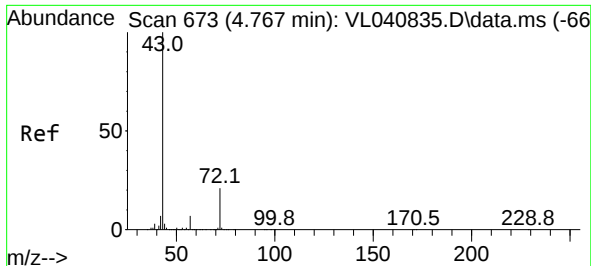


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.680 min Scan# 1268
Delta R.T. -0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01



Tgt Ion:114 Resp: 2886883
Ion Ratio Lower Upper
114 100
63 26.1 20.9 31.3
88 18.0 14.3 21.5





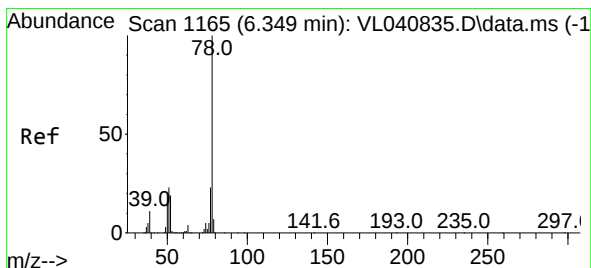
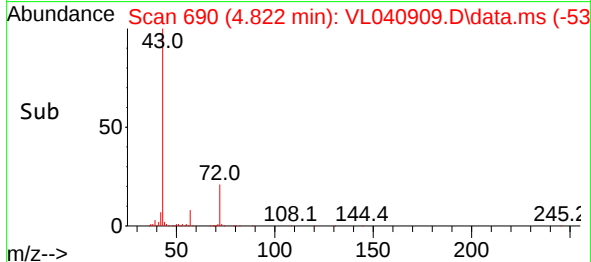
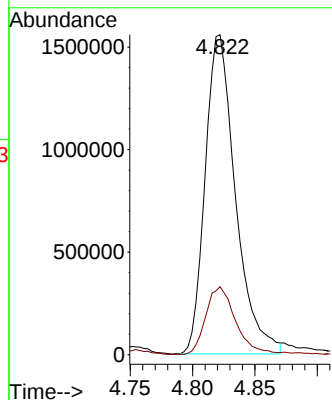
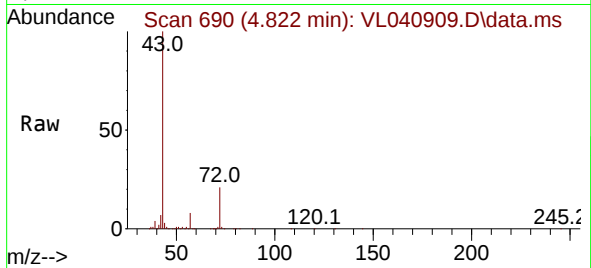
#34
2-Butanone
Concen: 17.929 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 43 Resp: 263677
Ion Ratio Lower Upper
43 100
72 21.5 17.2 25.8

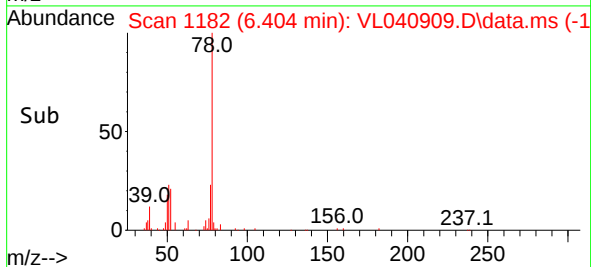
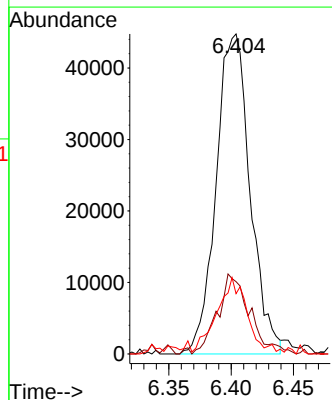
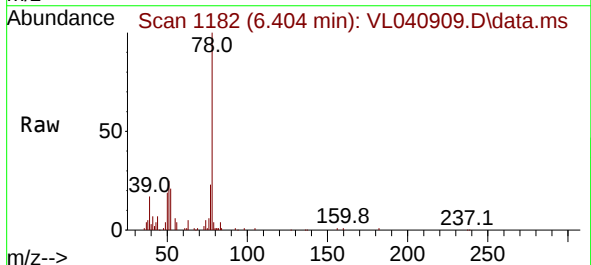
Manual Integrations
APPROVED

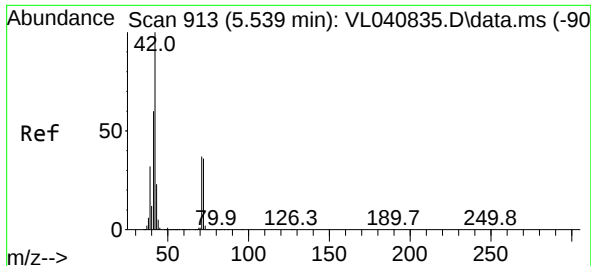
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#36
Benzene
Concen: 0.363 ppbv
RT: 6.404 min Scan# 1182
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

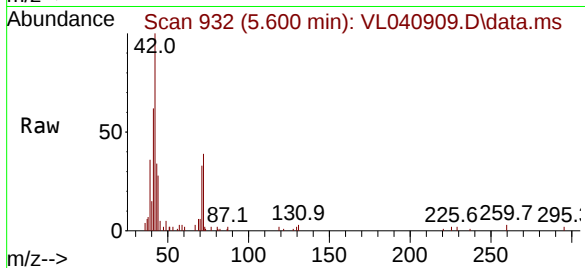
Tgt Ion: 78 Resp: 85045
Ion Ratio Lower Upper
78 100
77 22.6 18.4 27.6
50 17.5 16.2 24.2





#41
Tetrahydrofuran
Concen: 0.350 ppbv m
RT: 5.600 min Scan# 913
Delta R.T. 0.010 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

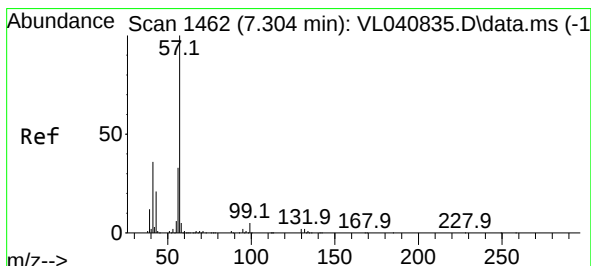
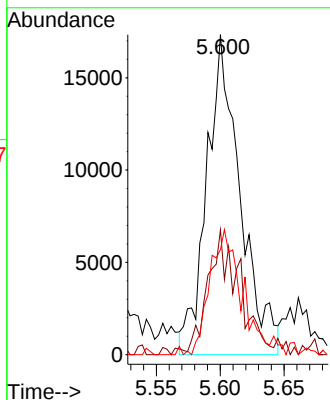
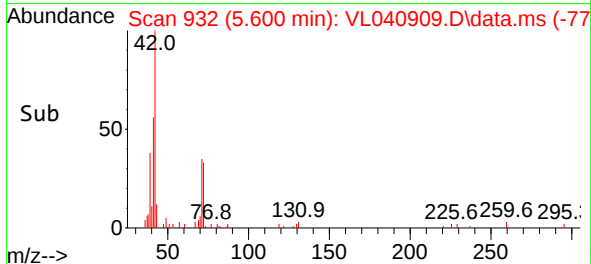
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 42 Resp: 31730
Ion Ratio Lower Upper
42 100
72 40.0 30.8 46.2
71 39.5 30.0 45.0

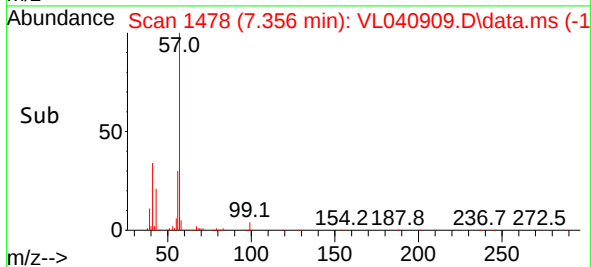
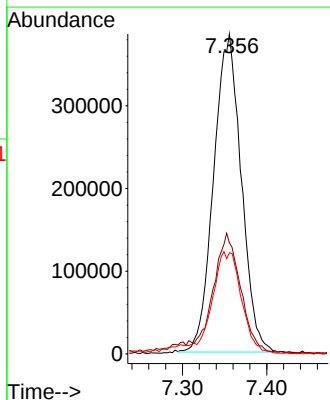
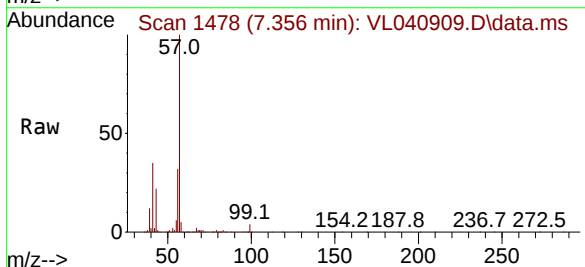
Manual Integrations
APPROVED

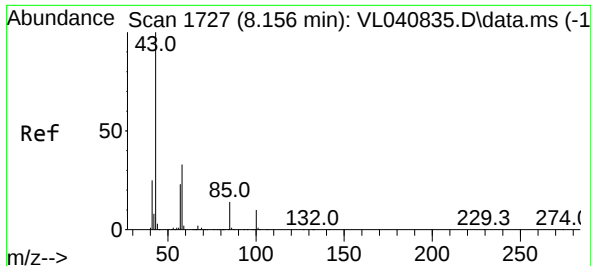
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#44
2,2,4-Trimethylpentane
Concen: 2.242 ppbv
RT: 7.356 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Tgt Ion: 57 Resp: 872667
Ion Ratio Lower Upper
57 100
41 41.2 29.0 43.6
56 36.5 25.2 37.8





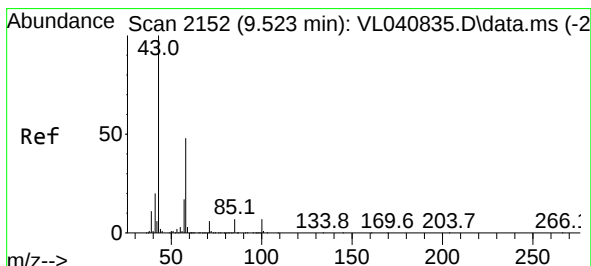
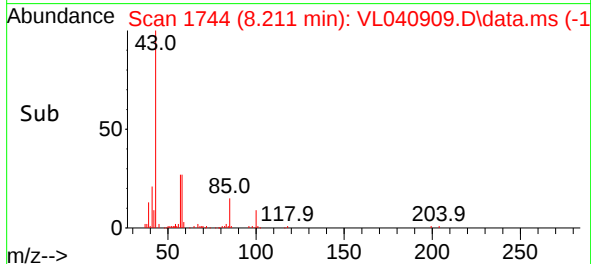
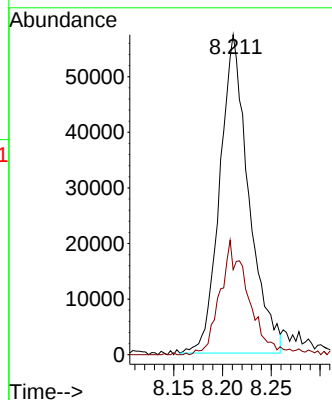
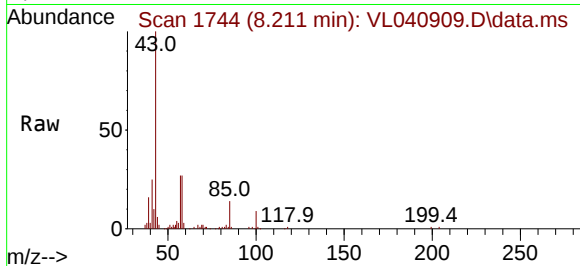
#50
4-Methyl-2-Pentanone
Concen: 0.521 ppbv
RT: 8.211 min Scan# 11853
Delta R.T. 0.010 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 43 Resp: 11853
Ion Ratio Lower Upper
43 100
58 36.7 27.8 41.6

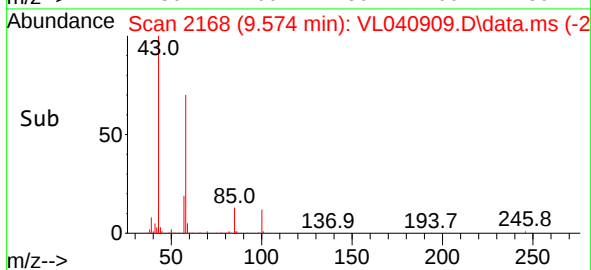
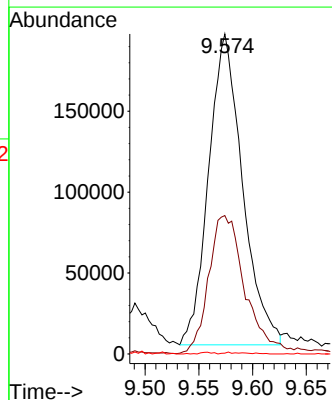
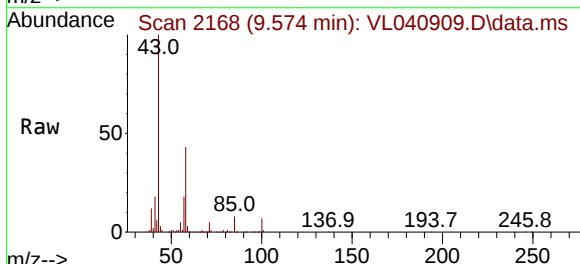
Manual Integrations
APPROVED

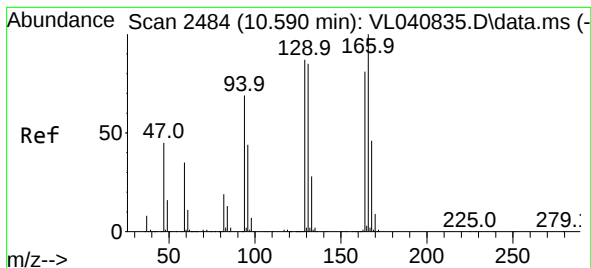
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#51
2-Hexanone
Concen: 2.627 ppbv
RT: 9.574 min Scan# 2168
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

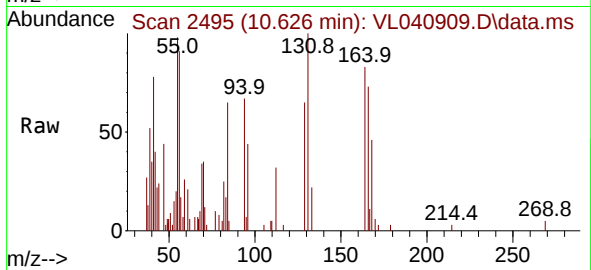
Tgt Ion: 43 Resp: 421540
Ion Ratio Lower Upper
43 100
58 48.2 37.4 56.2
98 0.3 0.2 0.2#





#52
Tetrachloroethene
Concen: 0.128 ppbv m
RT: 10.626 min Scan# 2484
Delta R.T. -0.006 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

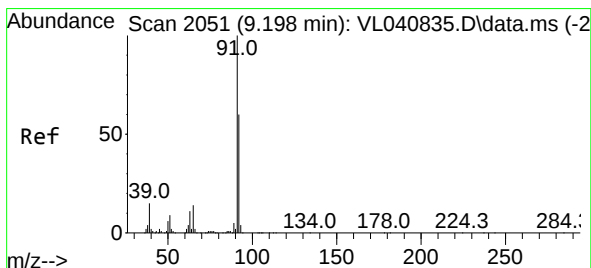
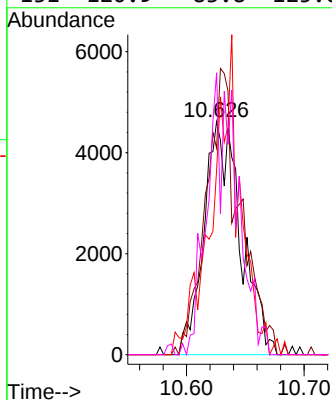
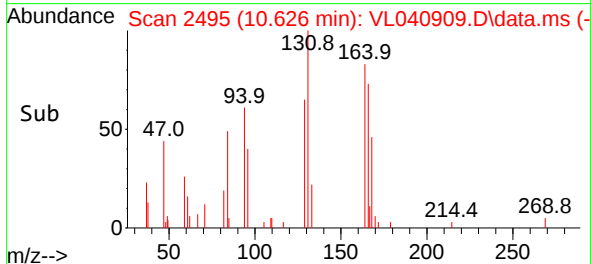
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



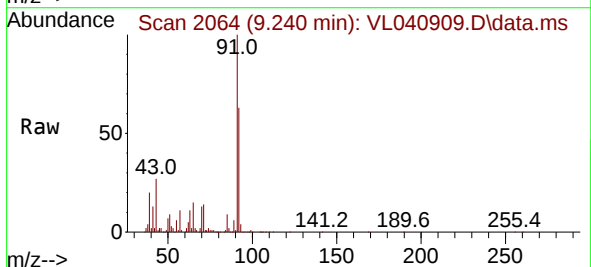
Tgt Ion:164 Resp: 1010
Ion Ratio Lower Upper
164 100
166 88.6 98.3 147.5
129 79.2 85.1 127.7
131 120.9 83.8 125.6

Manual Integrations
APPROVED

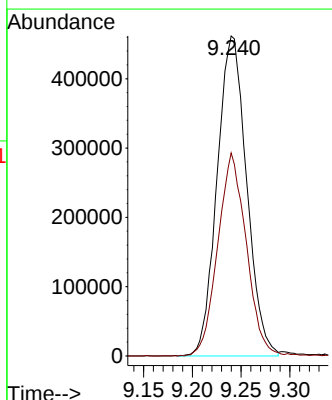
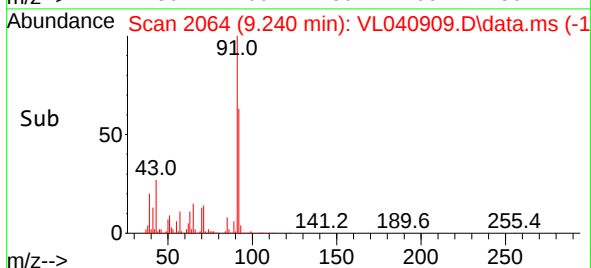
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

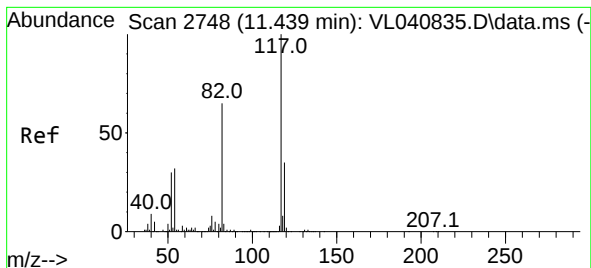


#53
Toluene
Concen: 3.772 ppbv
RT: 9.240 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01



Tgt Ion: 91 Resp: 972614
Ion Ratio Lower Upper
91 100
92 61.5 49.4 74.2





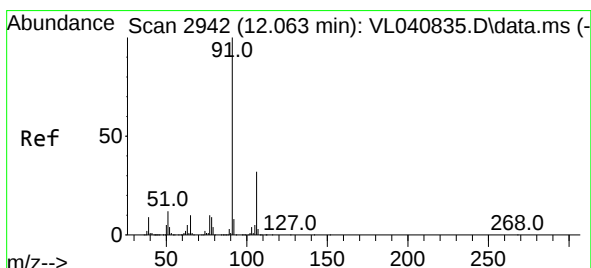
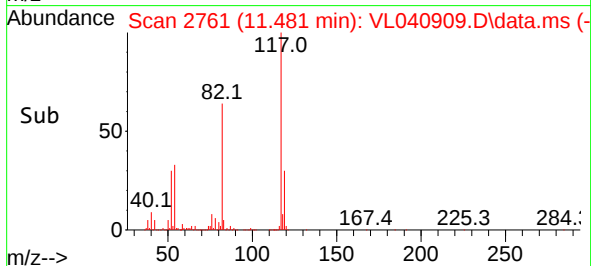
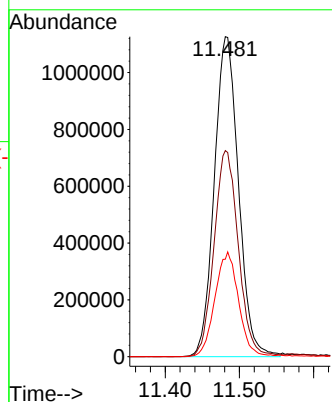
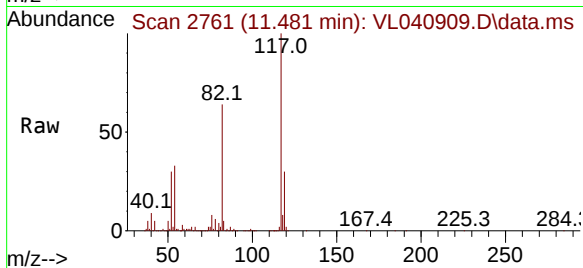
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion:117 Resp: 2553169
Ion Ratio Lower Upper
117 100
82 64.8 50.6 75.8
119 32.4 23.3 34.9

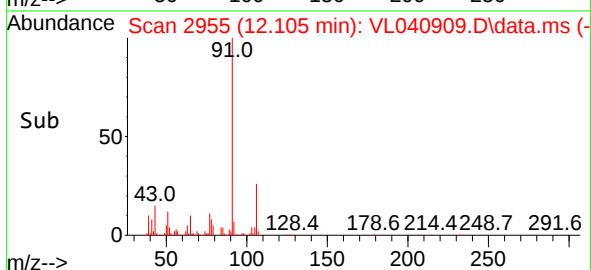
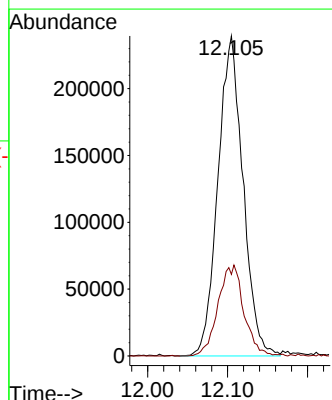
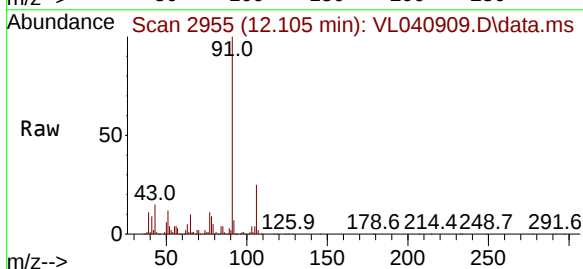
Manual Integrations
APPROVED

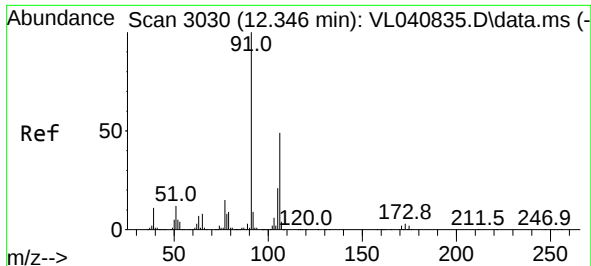
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#58
Ethyl Benzene
Concen: 1.564 ppbv
RT: 12.105 min Scan# 2955
Delta R.T. 0.000 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Tgt Ion: 91 Resp: 521055
Ion Ratio Lower Upper
91 100
106 25.5 25.2 37.8





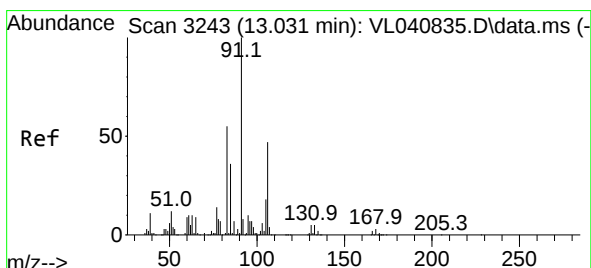
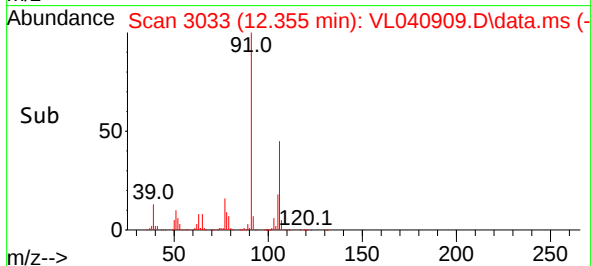
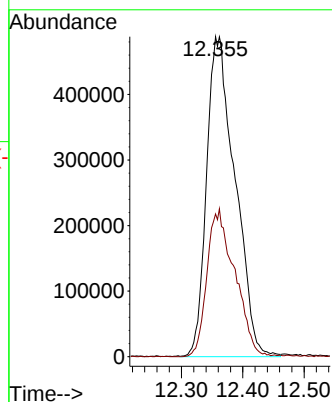
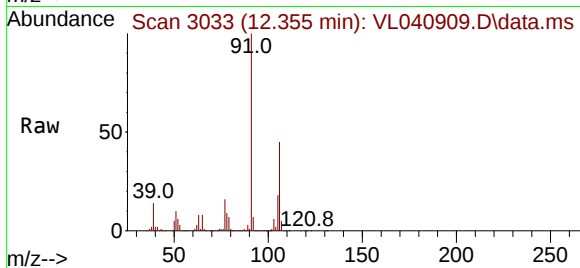
#59
m/p-Xylene
Concen: 5.555 ppbv m
RT: 12.355 min Scan# 3033
Delta R.T. -0.029 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 1575804
Ion Ratio Lower Upper
91 100
106 45.3 35.4 53.0

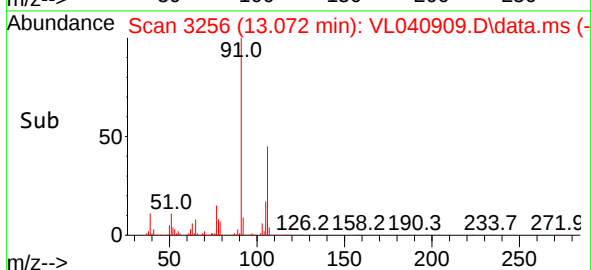
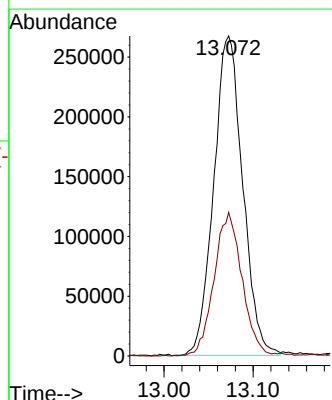
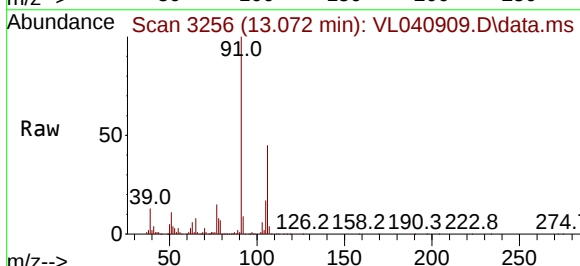
Manual Integrations
APPROVED

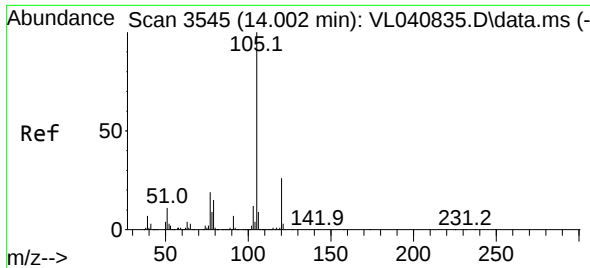
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#60
o-Xylene
Concen: 2.235 ppbv
RT: 13.072 min Scan# 3256
Delta R.T. -0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

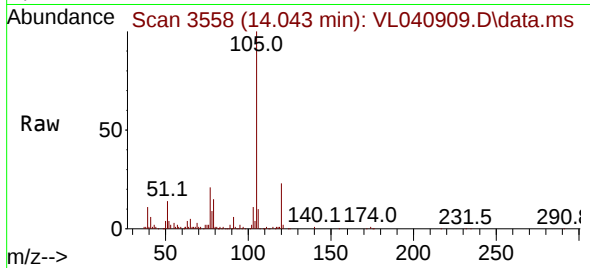
Tgt Ion: 91 Resp: 603654
Ion Ratio Lower Upper
91 100
106 43.8 22.9 68.5





#62
Isopropylbenzene
Concen: 0.722 ppbv
RT: 14.043 min Scan# 3545
Delta R.T. 0.000 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

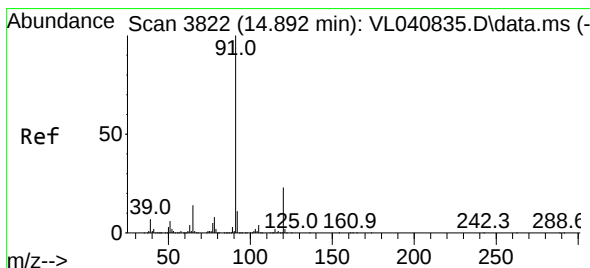
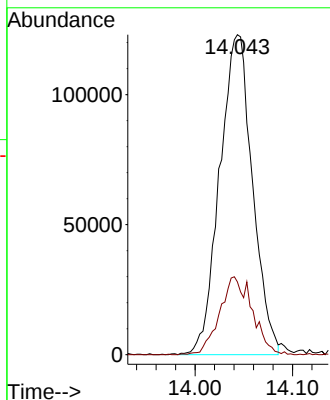
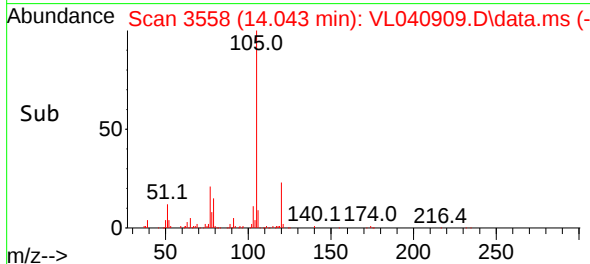
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion:105 Resp: 288210
Ion Ratio Lower Upper
105 100
120 24.4 20.7 31.1

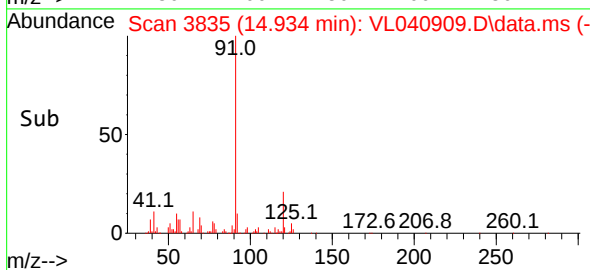
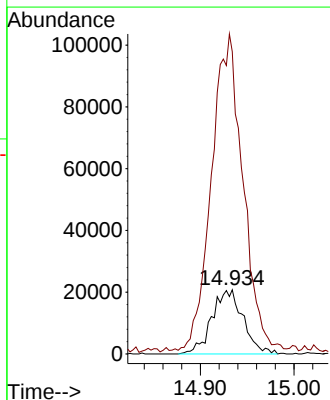
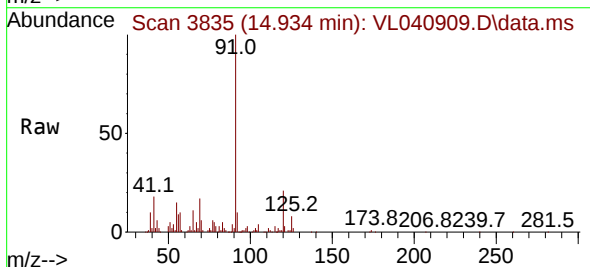
Manual Integrations
APPROVED

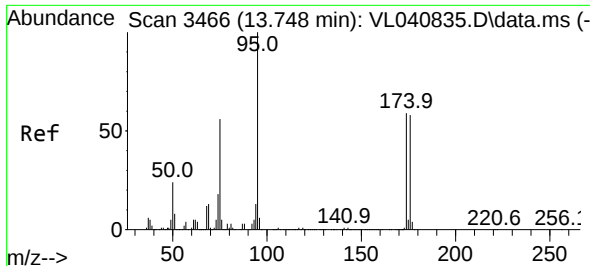
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#64
n-propylbenzene
Concen: 0.481 ppbv m
RT: 14.934 min Scan# 3835
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

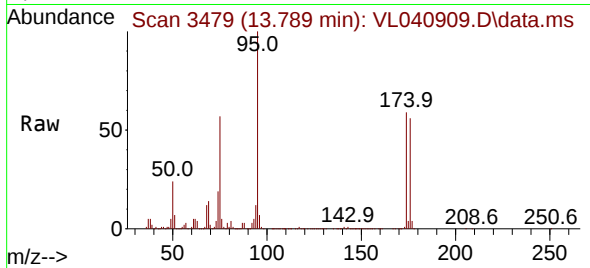
Tgt Ion:120 Resp: 48092
Ion Ratio Lower Upper
120 100
91 0.0 381.1 571.7#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.815 ppbv
RT: 13.789 min Scan# 3466
Delta R.T. -0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01

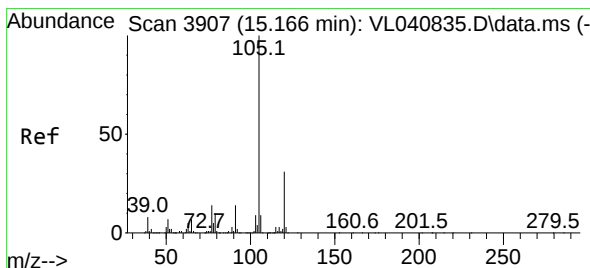
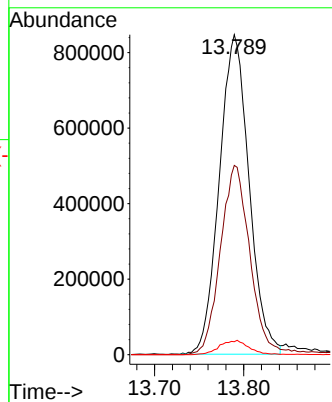
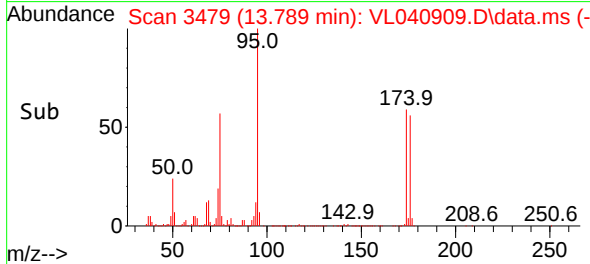
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



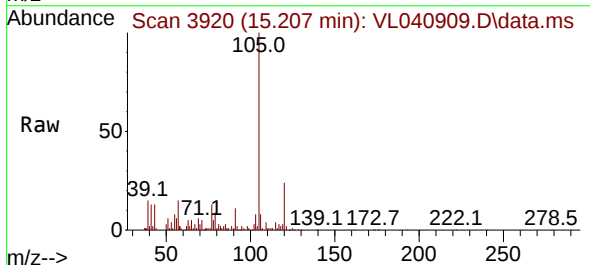
Tgt Ion: 95 Resp: 1961884
Ion Ratio Lower Upper
95 100
174 60.3 47.5 71.3
175 4.5 3.6 5.4

Manual Integrations
APPROVED

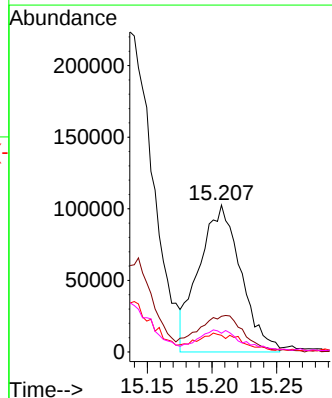
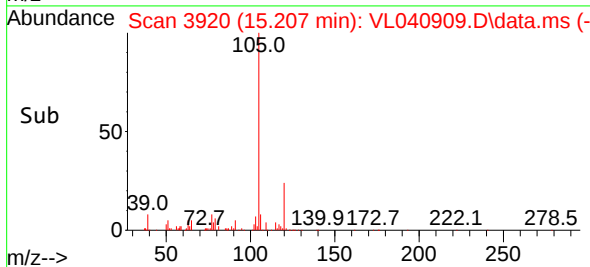
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

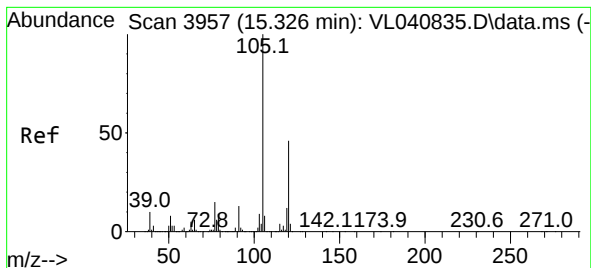


#72
4-Ethyltoluene
Concen: 0.781 ppbv m
RT: 15.207 min Scan# 3920
Delta R.T. 0.003 min
Lab File: VL040909.D
Acq: 27 Nov 2023 16:01



Tgt Ion:105 Resp: 231772
Ion Ratio Lower Upper
105 100
120 0.0 24.5 36.7#
91 13.4 10.6 16.0
77 16.4 11.8 17.6





#73

1,3,5-Trimethylbenzene

Concen: 0.590 ppbv

RT: 15.368 min Scan# 3957

Delta R.T. 0.003 min

Lab File: VL040909.D

Acq: 27 Nov 2023 16:01

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:105 Resp: 15501

Ion Ratio Lower Upper

105 100

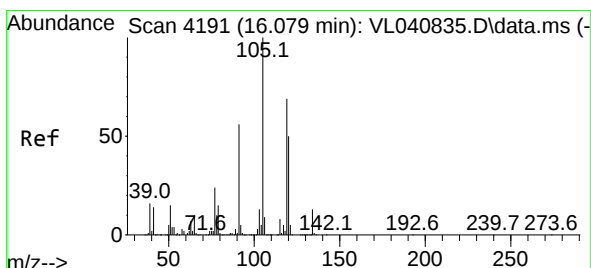
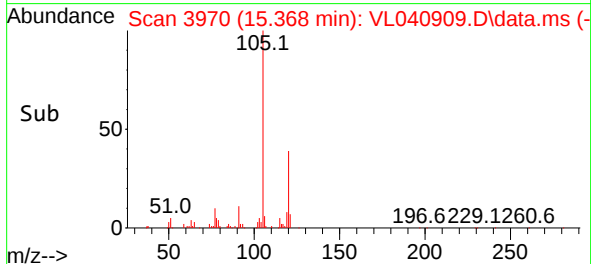
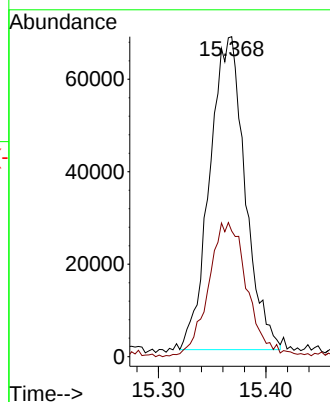
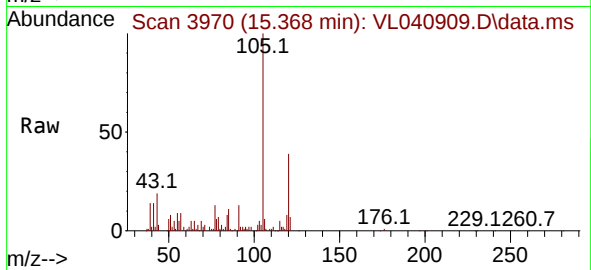
120 39.0 36.8 55.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#74

1,2,4-Trimethylbenzene

Concen: 1.426 ppbv

RT: 16.117 min Scan# 4203

Delta R.T. -0.003 min

Lab File: VL040909.D

Acq: 27 Nov 2023 16:01

Tgt Ion:105 Resp: 417776

Ion Ratio Lower Upper

105 100

120 38.0 40.2 60.2#

91 9.8 45.7 68.5#

77 14.4 19.2 28.8#

