

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042257.D
 Acq On : 08 Apr 2025 11:26
 Operator : SY/MD
 Sample : Q1728-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:53:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

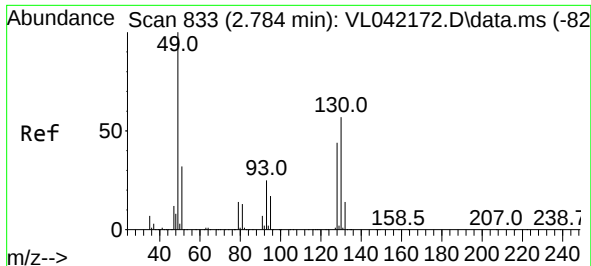
QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

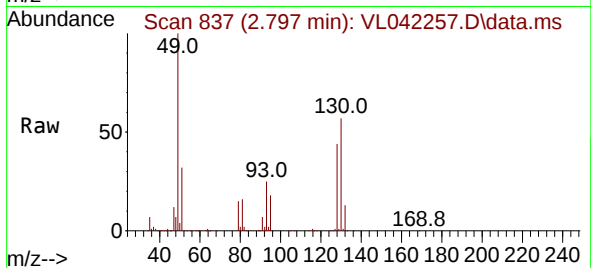
Internal Standards							
1)	Bromochloromethane	2.797	49	196181	10.000	ppbv	0.01
33)	1,4-Difluorobenzene	3.978	114	528802	10.000	ppbv	0.03
55)	Chlorobenzene-d5	8.969	117	373886	10.000	ppbv	# 0.09
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	10.487	95	7140559	232.561	ppbv	0.12
Spiked Amount		10.000	Range	65 - 135	Recovery	= 2325.600%	#
Target Compounds							Qvalue
2)	Dichlorodifluoromethane	1.502	85	6112	0.211	ppbv	# 88
3)	Chlorodifluoromethane	1.479	51	2923m	0.099	ppbv	
4)	Chloromethane	1.538	50	3367	0.284	ppbv	99
9)	Propene	1.489	41	103972	7.666	ppbv	91
10)	Heptane	5.020	43	556218	15.418	ppbv	98
13)	Ethanol	1.725	45	20476	15.970	ppbv	87
15)	Acetone	1.839	43	1342486	48.930	ppbv	97
17)	tert-Butyl alcohol	2.049	59	67718	1.982	ppbv	98
19)	Isopropyl Alcohol	1.894	45	41121	2.656	ppbv	# 30
20)	Methylene Chloride	2.068	84	38082	3.727	ppbv	88
26)	Hexane	2.839	57	57352	2.085	ppbv	# 1
27)	Carbon Disulfide	2.156	76	543422	18.424	ppbv	# 95
29)	Chloroform	2.858	83	3914m	0.097	ppbv	
30)	Cyclohexane	3.878	84	580451	24.303	ppbv	97
34)	2-Butanone	2.567	43	176337	4.599	ppbv	98
36)	Benzene	3.674	78	83844	1.599	ppbv	97
52)	Tetrachloroethene	8.412	164	5282m	0.254	ppbv	
53)	Toluene	7.027	91	1042954	16.783	ppbv	100
58)	Ethyl Benzene	9.561	91	2036145	30.659	ppbv	100
59)	m/p-Xylene	9.746	91	8450348m	159.348	ppbv	
60)	o-Xylene	10.131	91	9318527m	175.287	ppbv	
62)	Isopropylbenzene	10.658	105	5182735	65.193	ppbv	# 88
64)	n-propylbenzene	11.095	120	824157	40.273	ppbv	89
69)	p-Isopropyltoluene	11.989	119	1850506m	21.029	ppbv	
72)	4-Ethyltoluene	11.225	105	12114303	183.018	ppbv	# 46
73)	1,3,5-Trimethylbenzene	11.332	105	5576526	96.463	ppbv	# 37
74)	1,2,4-Trimethylbenzene	11.642	105	8221264	123.444	ppbv	# 63

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

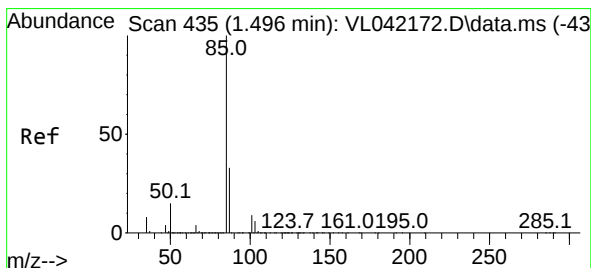
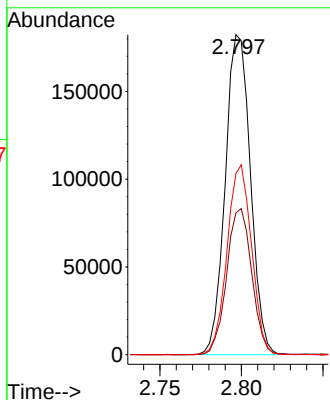
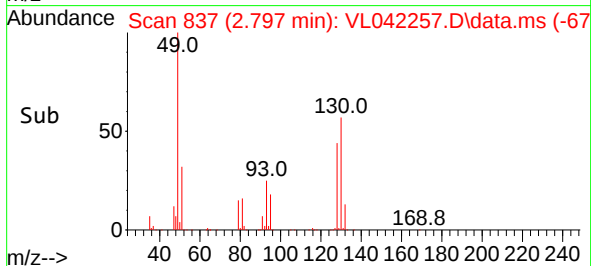
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion: 49 Resp: 19618
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.5
130 57.7 28.8 86.4

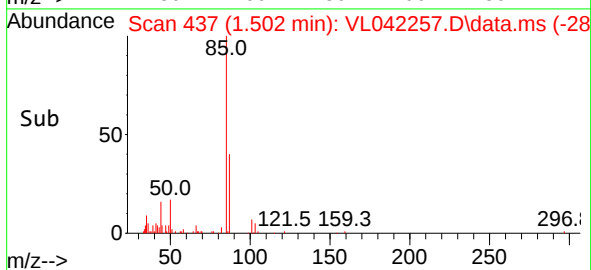
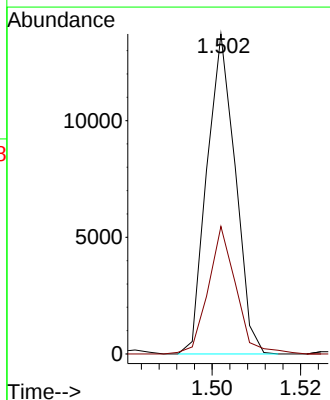
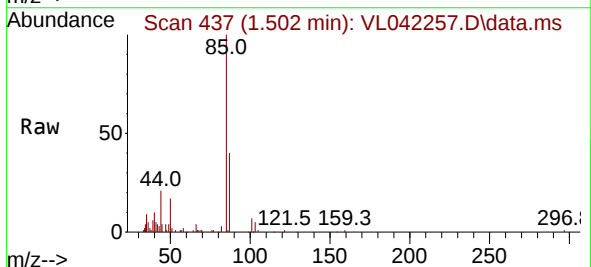
Manual Integrations
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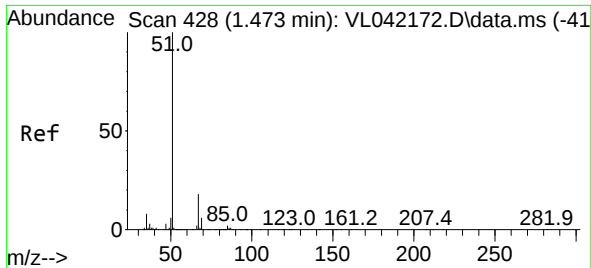
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.211 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

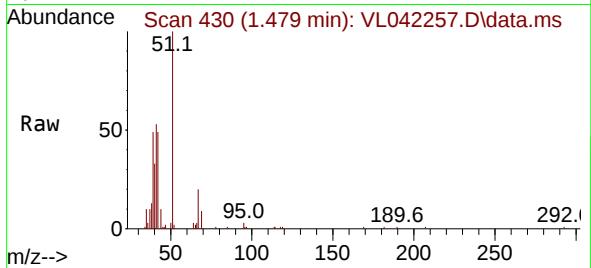
Tgt Ion: 85 Resp: 6112
Ion Ratio Lower Upper
85 100
87 39.3 26.1 39.1#





#3
Chlorodifluoromethane
Concen: 0.099 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

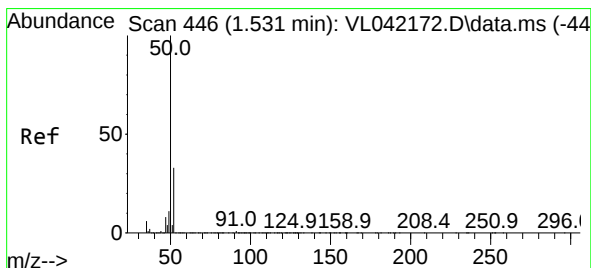
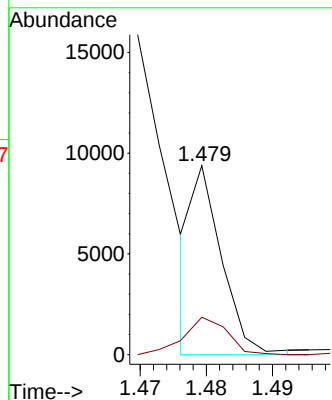
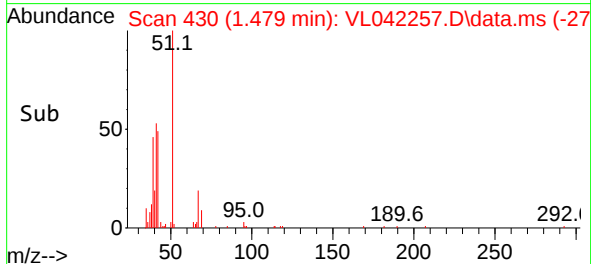
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ClientSampleId :
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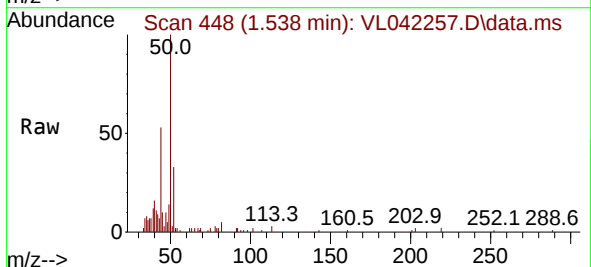
Tgt Ion: 51 Resp: 292
Ion Ratio Lower Upper
51 100
67 33.8 15.0 22.6

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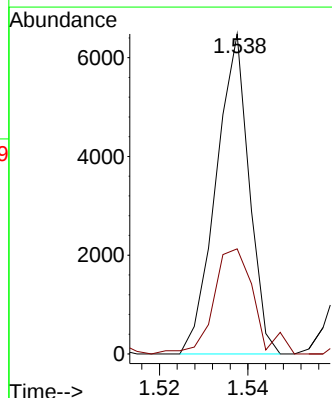
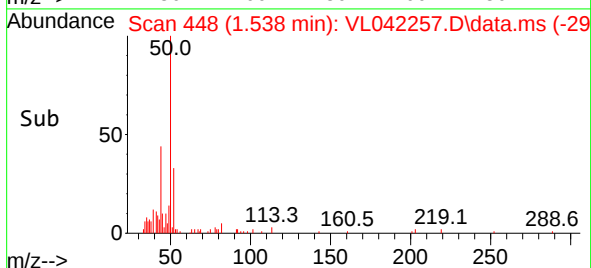
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

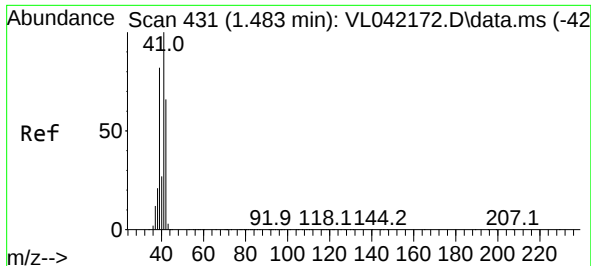


#4
Chloromethane
Concen: 0.284 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26



Tgt Ion: 50 Resp: 3367
Ion Ratio Lower Upper
50 100
52 31.9 26.1 39.1





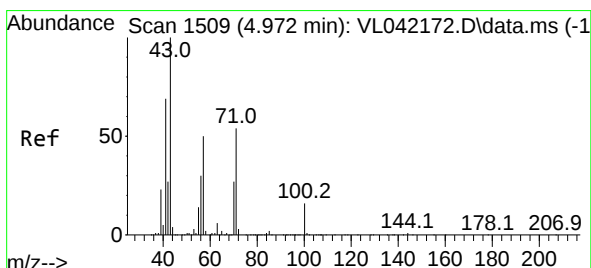
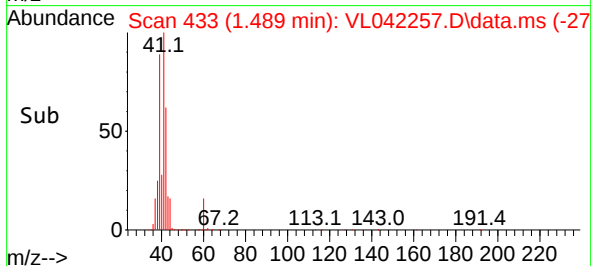
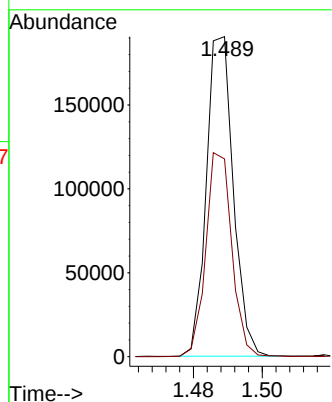
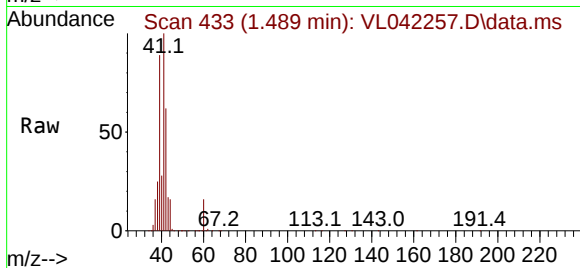
#9
 Propene
 Concen: 7.666 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042257.D
 Acq: 08 Apr 2025 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

Tgt Ion: 41 Resp: 103972
 Ion Ratio Lower Upper
 41 100
 42 62.0 55.4 83.2

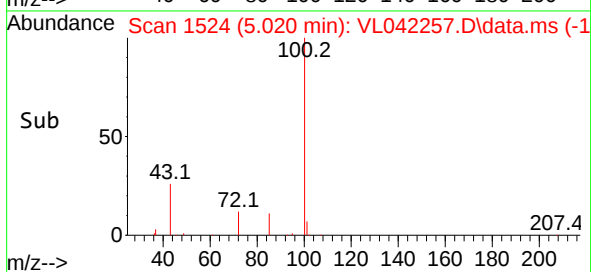
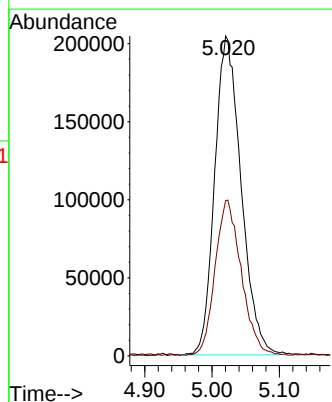
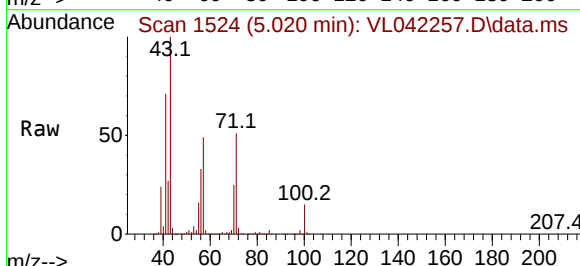
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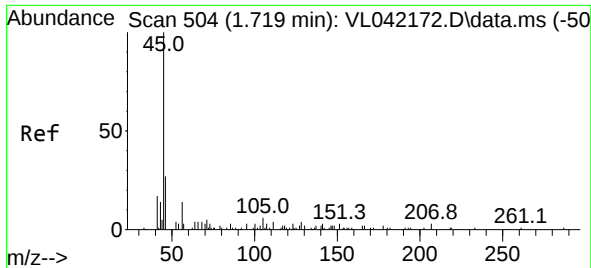
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#10
 Heptane
 Concen: 15.418 ppbv
 RT: 5.020 min Scan# 1524
 Delta R.T. 0.048 min
 Lab File: VL042257.D
 Acq: 08 Apr 2025 11:26

Tgt Ion: 43 Resp: 556218
 Ion Ratio Lower Upper
 43 100
 57 48.1 39.4 59.2





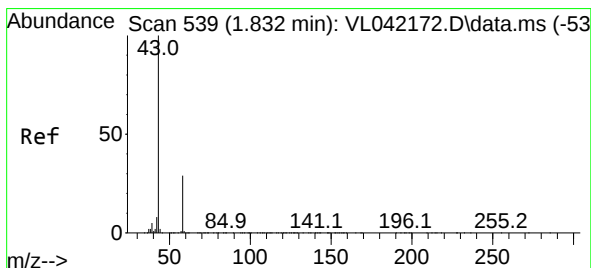
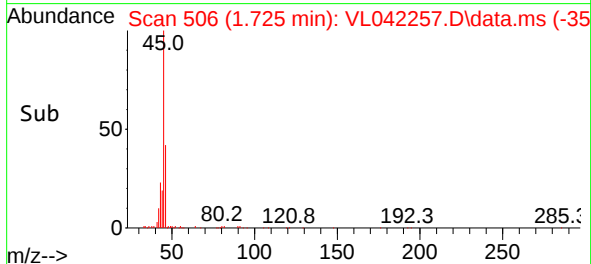
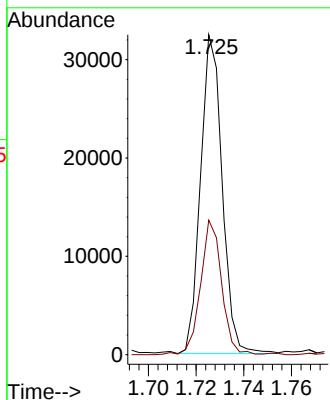
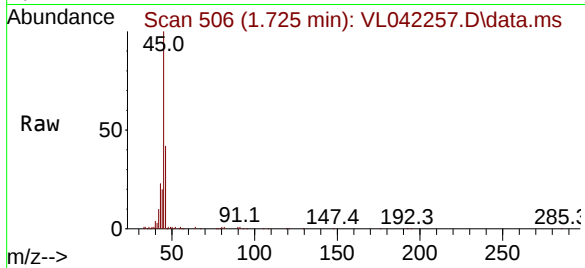
#13
Ethanol
Concen: 15.970 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 45 Resp: 20470
Ion Ratio Lower Upper
45 100
46 41.4 20.2 80.8

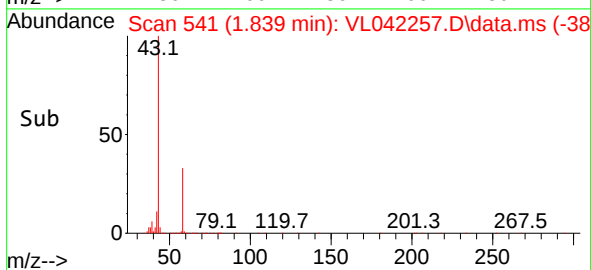
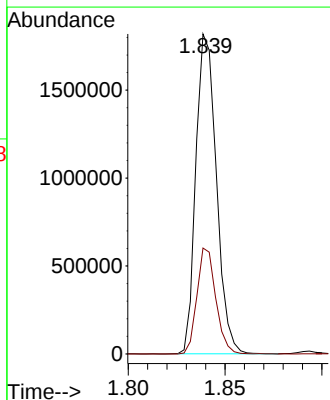
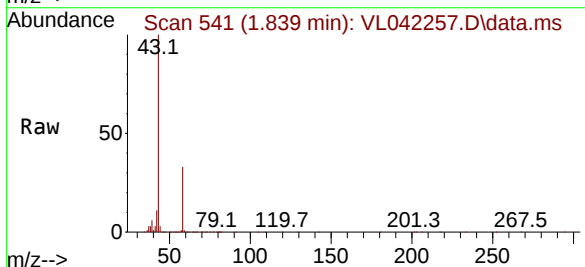
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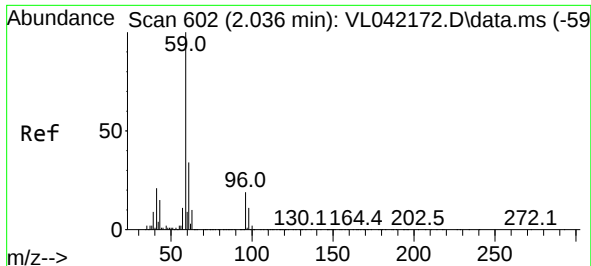
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#15
Acetone
Concen: 48.930 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

Tgt Ion: 43 Resp: 1342486
Ion Ratio Lower Upper
43 100
58 30.5 23.2 34.8





#17

tert-Butyl alcohol

Concen: 1.982 ppbv

RT: 2.049 min Scan# 602

Delta R.T. 0.013 min

Lab File: VL042257.D

Acq: 08 Apr 2025 11:26

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025

Tgt Ion: 59 Resp: 67718

Ion Ratio Lower Upper

59 100

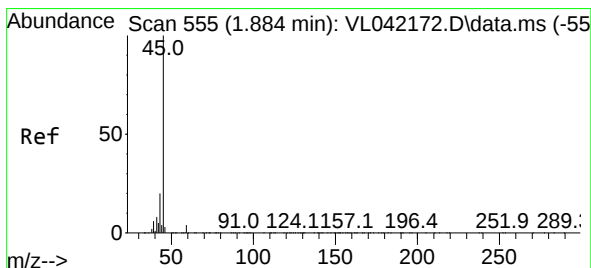
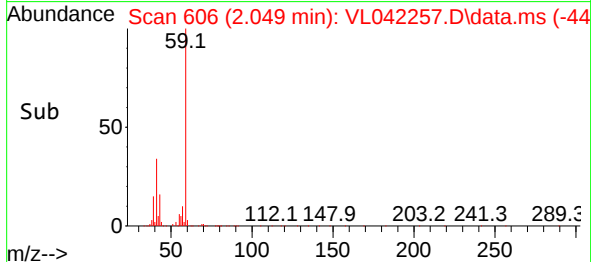
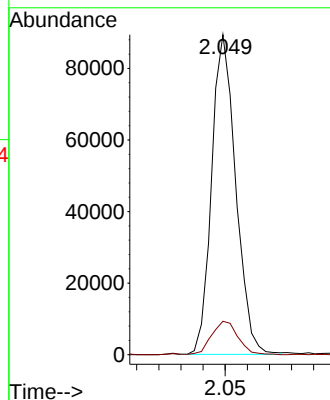
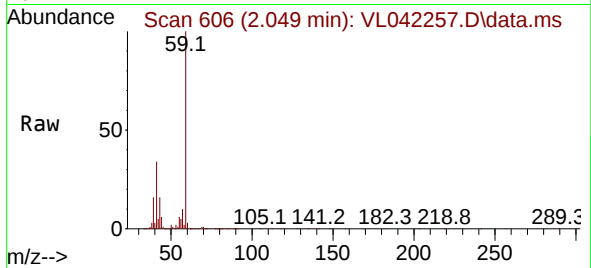
57 11.7 8.9 13.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#19

Isopropyl Alcohol

Concen: 2.656 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.009 min

Lab File: VL042257.D

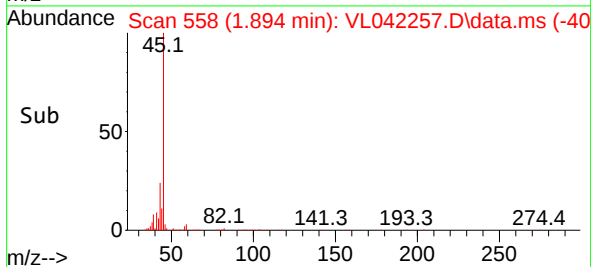
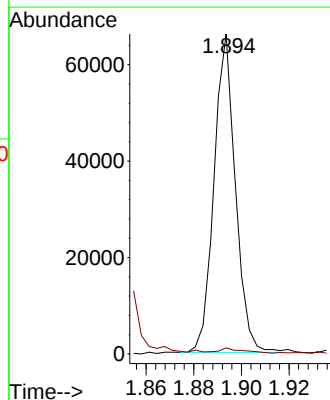
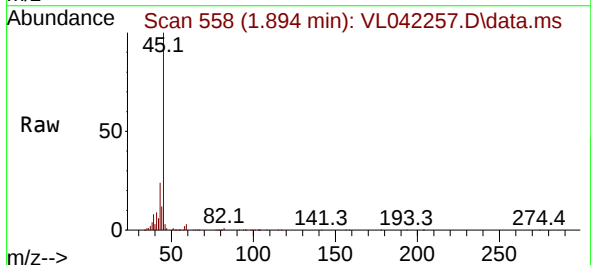
Acq: 08 Apr 2025 11:26

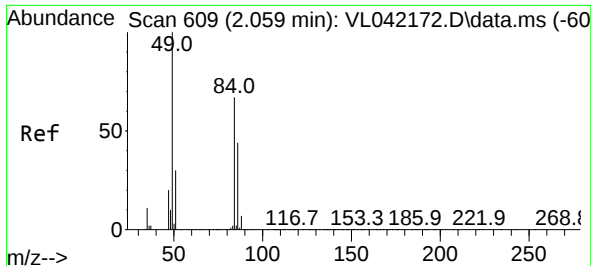
Tgt Ion: 45 Resp: 41121

Ion Ratio Lower Upper

45 100

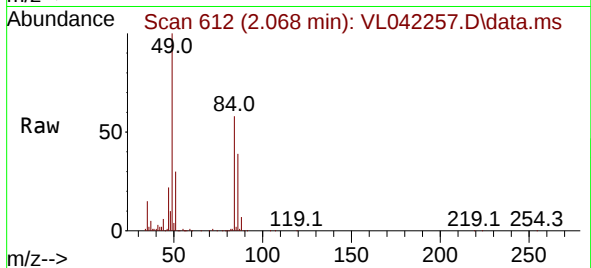
58 0.0 36.9 55.3#





#20
Methylene Chloride
Concen: 3.727 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

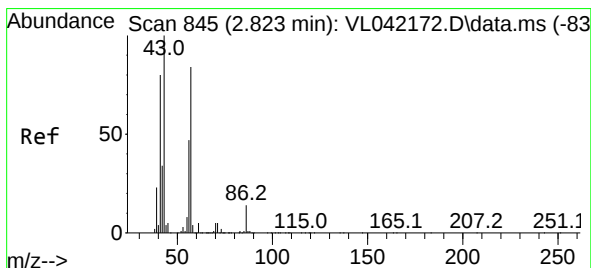
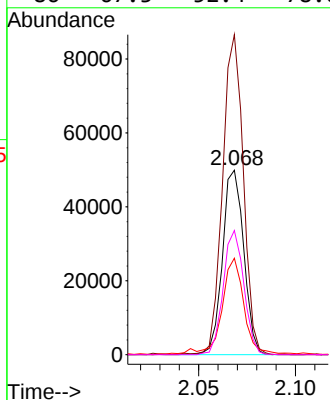
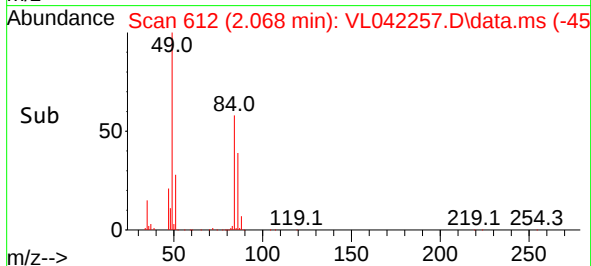
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion: 84 Resp: 3808
Ion Ratio Lower Upper
84 100
49 173.1 120.2 180.4
51 51.7 37.4 56.0
86 67.3 52.4 78.6

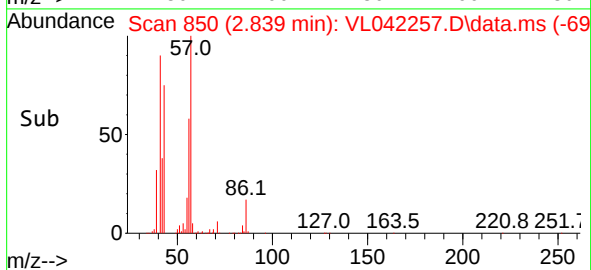
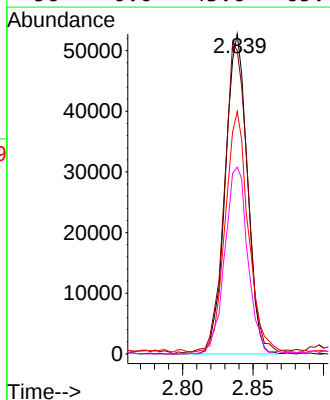
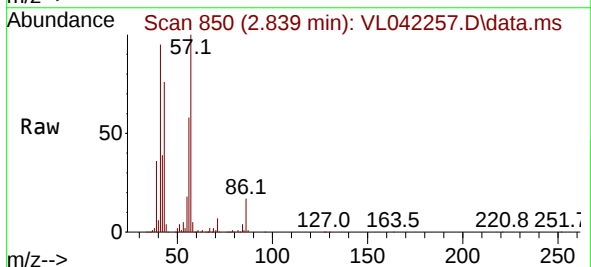
Manual Integrations
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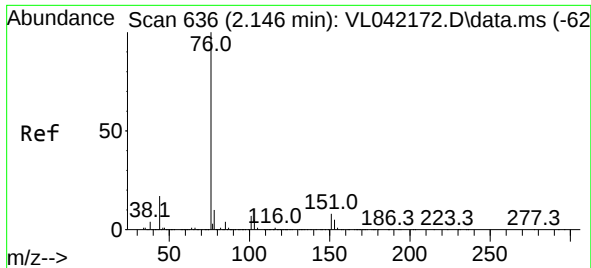
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 2.085 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.016 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

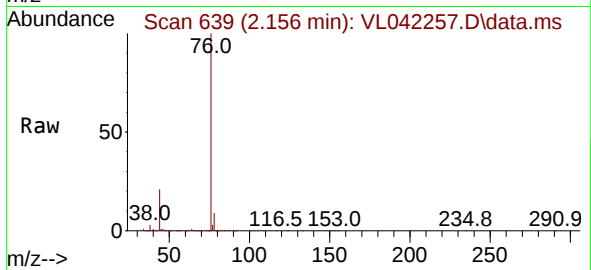
Tgt Ion: 57 Resp: 57352
Ion Ratio Lower Upper
57 100
41 102.0 76.6 114.8
43 0.0 207.8 311.8#
56 0.0 43.6 65.4#





#27
Carbon Disulfide
Concen: 18.424 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.009 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

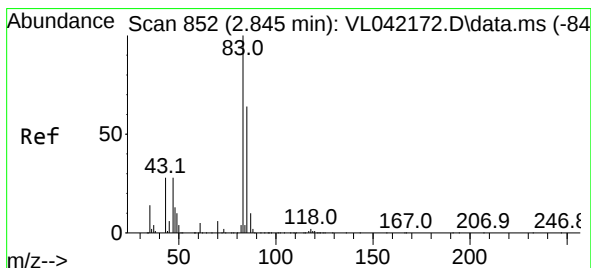
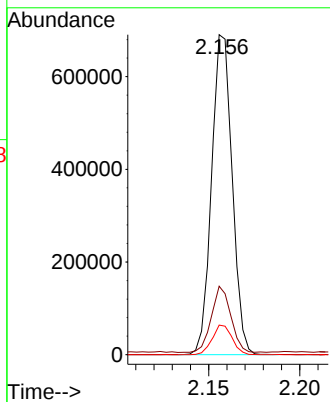
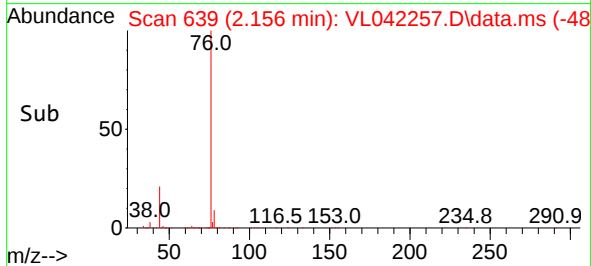
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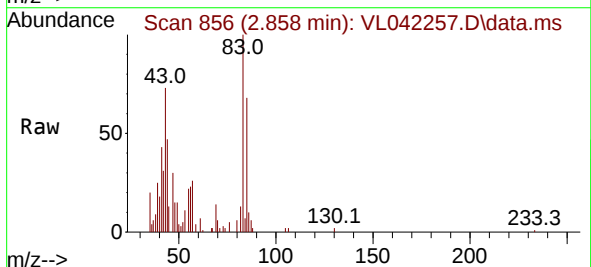
Tgt Ion: 76 Resp: 54342
Ion Ratio Lower Upper
76 100
44 19.9 14.7 22.1
78 9.0 9.3 13.9

Manual Integrations
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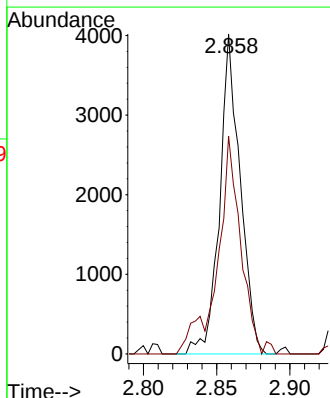
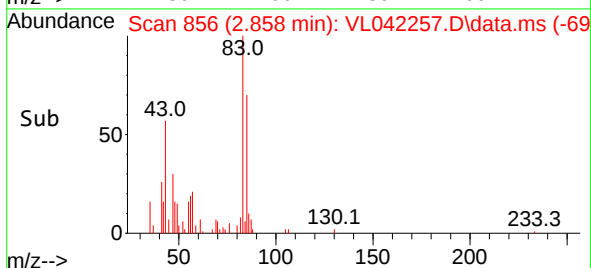
Reviewed By :Semsettin Yesilyurt 04/09/2025
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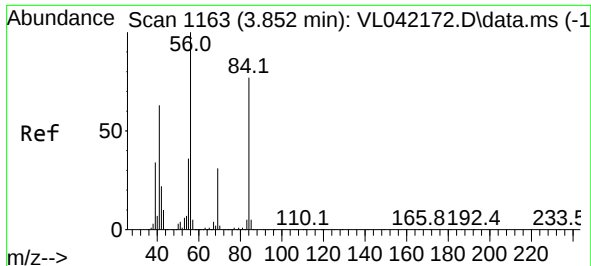


#29
Chloroform
Concen: 0.097 ppbv m
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26



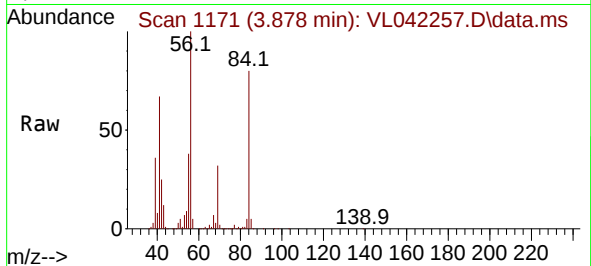
Tgt Ion: 83 Resp: 3914
Ion Ratio Lower Upper
83 100
85 68.1 51.4 77.2





#30
Cyclohexane
Concen: 24.303 ppbv
RT: 3.878 min Scan# 1163
Delta R.T. 0.026 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

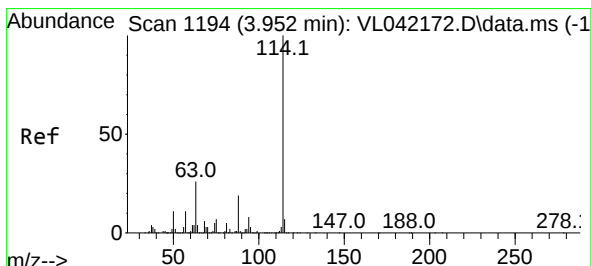
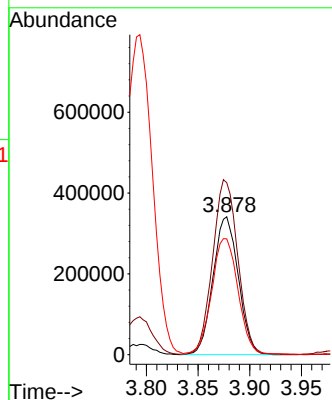
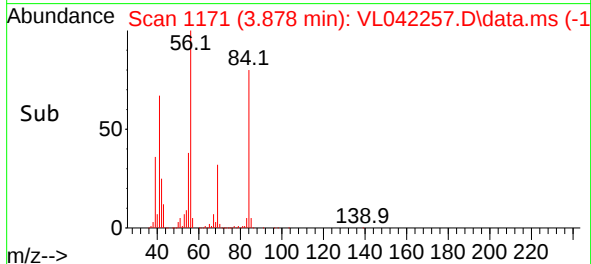
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



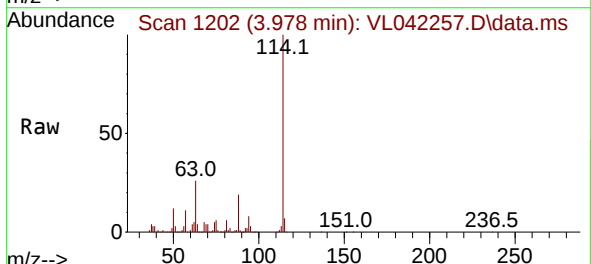
Tgt Ion: 84 Resp: 58045
Ion Ratio Lower Upper
84 100
56 126.5 102.8 154.2
41 86.9 66.5 99.7

Manual Integrations
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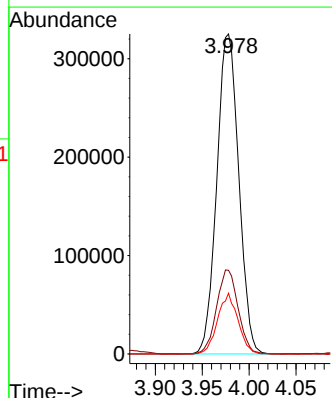
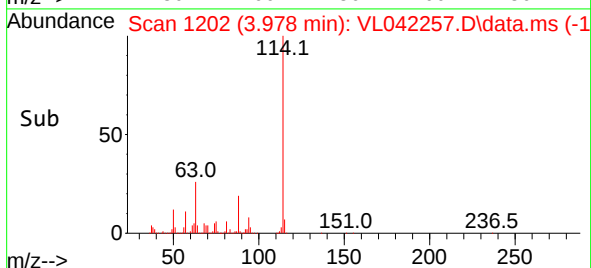
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

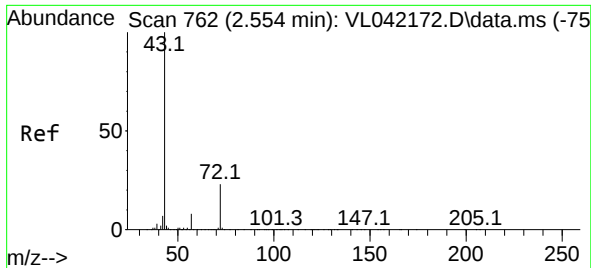


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26



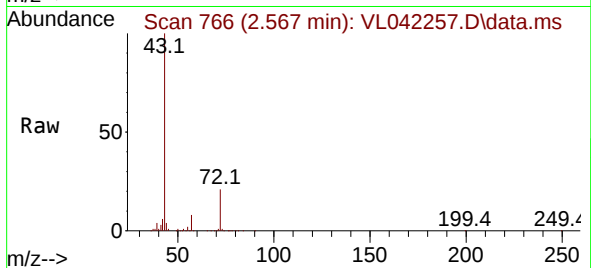
Tgt Ion:114 Resp: 528802
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 17.6 15.0 22.4





#34
2-Butanone
Concen: 4.599 ppbv
RT: 2.567 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

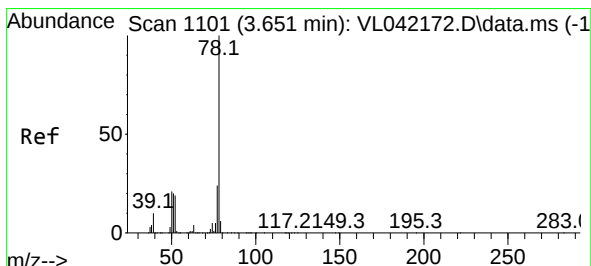
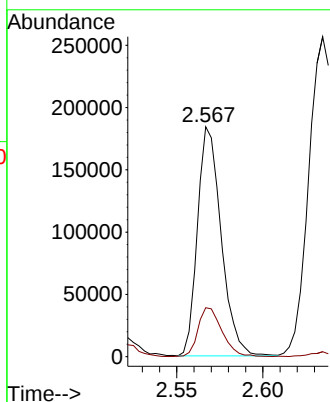
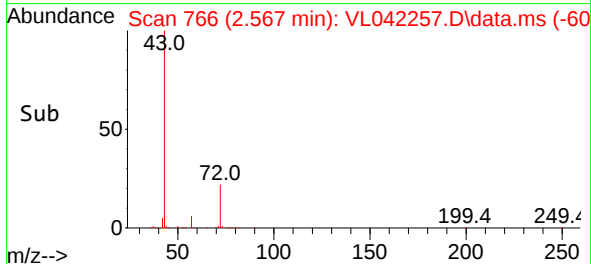
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



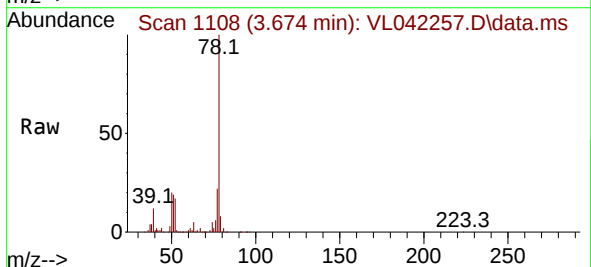
Tgt Ion: 43 Resp: 17633
Ion Ratio Lower Upper
43 100
72 21.6 18.2 27.2

Manual Integrations
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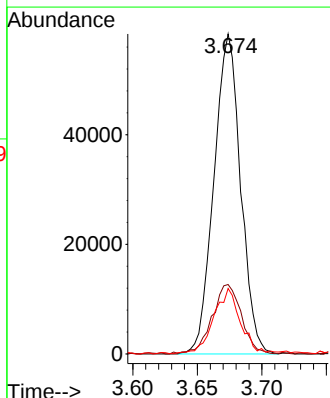
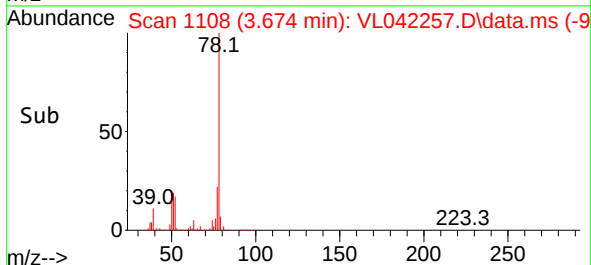
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

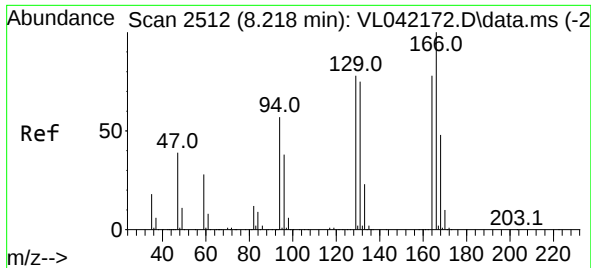


#36
Benzene
Concen: 1.599 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26



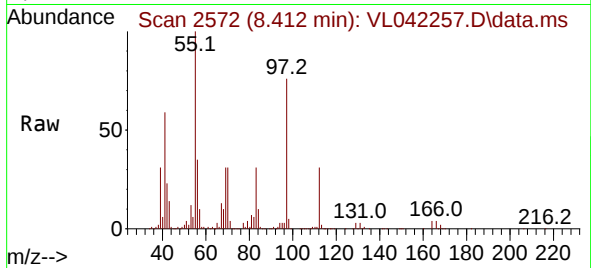
Tgt Ion: 78 Resp: 83844
Ion Ratio Lower Upper
78 100
77 21.6 19.1 28.7
50 19.9 16.6 24.8





#52
Tetrachloroethene
Concen: 0.254 ppbv m
RT: 8.412 min Scan# 2144
Delta R.T. 0.194 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

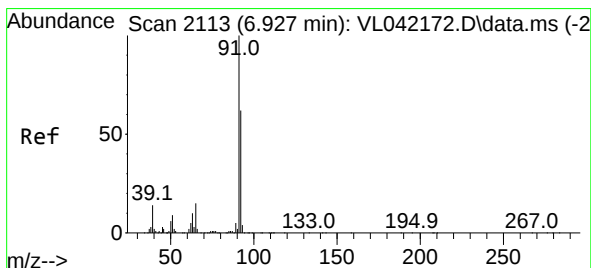
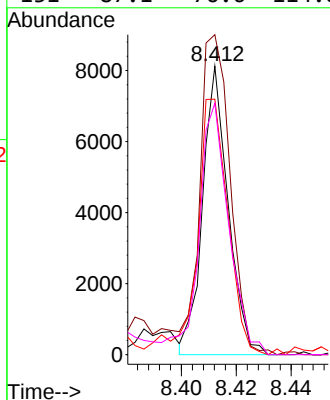
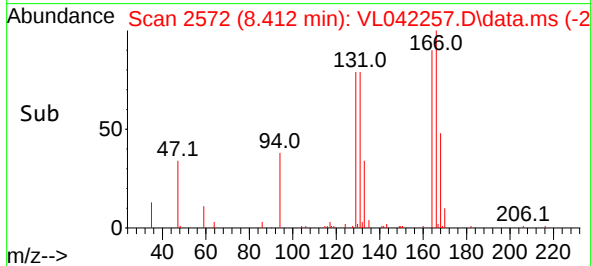
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion:164 Resp: 528
Ion Ratio Lower Upper
164 100
166 110.9 102.5 153.7
129 88.5 79.8 119.8
131 87.1 76.6 114.8

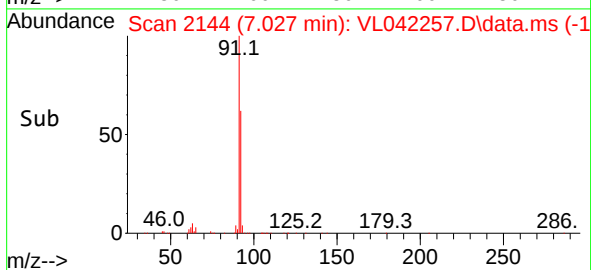
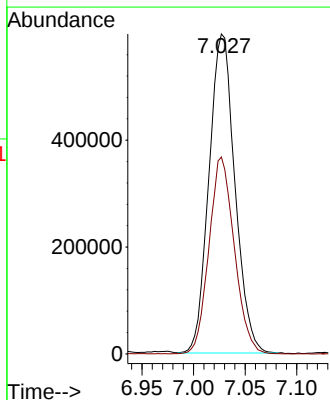
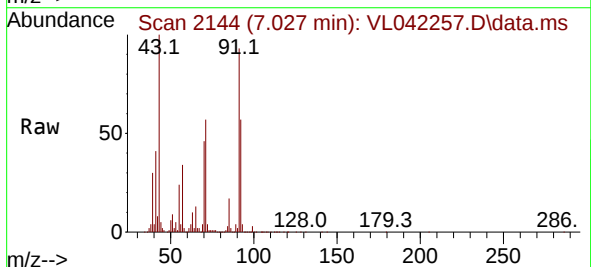
Manual Integrations
APPROVED

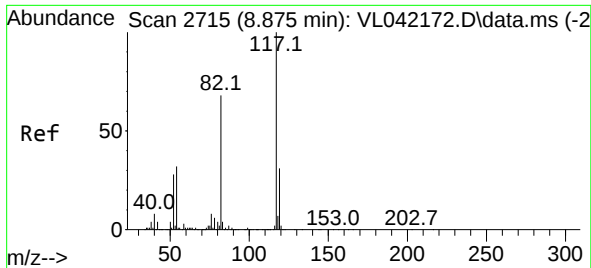
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 16.783 ppbv
RT: 7.027 min Scan# 2144
Delta R.T. 0.100 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

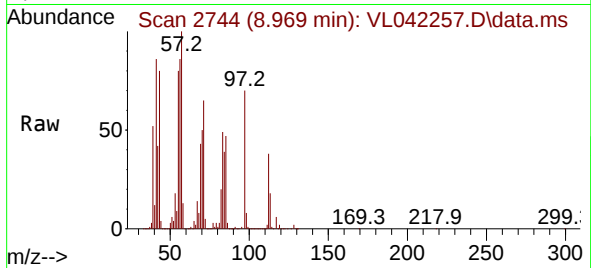
Tgt Ion: 91 Resp: 1042954
Ion Ratio Lower Upper
91 100
92 60.3 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.969 min Scan# 2174
Delta R.T. 0.094 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

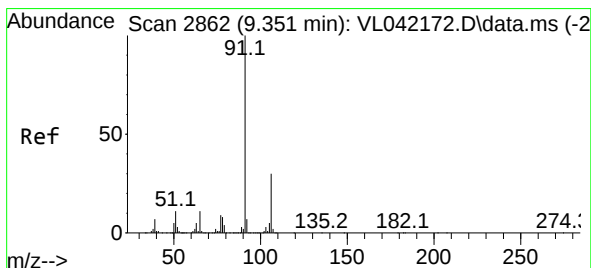
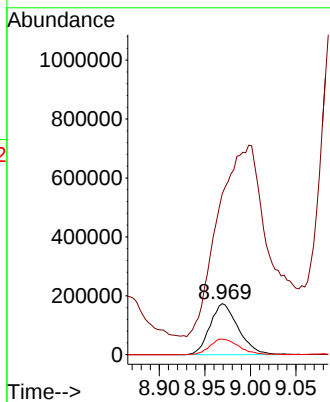
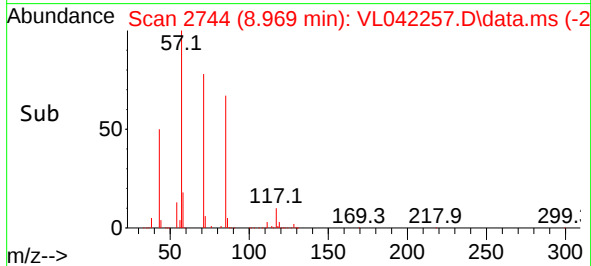
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion:117 Resp: 373880
Ion Ratio Lower Upper
117 100
82 782.9 55.8 83.6
119 31.6 25.5 38.3

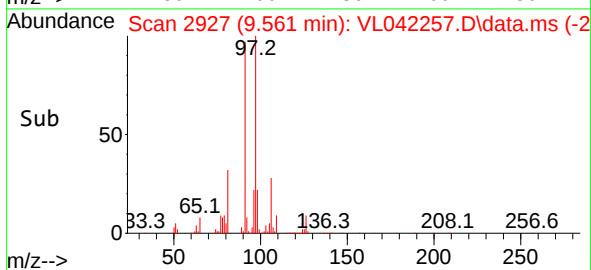
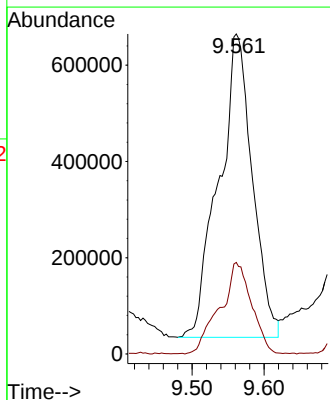
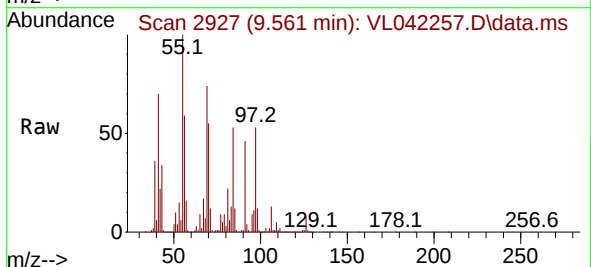
Manual Integrations
APPROVED

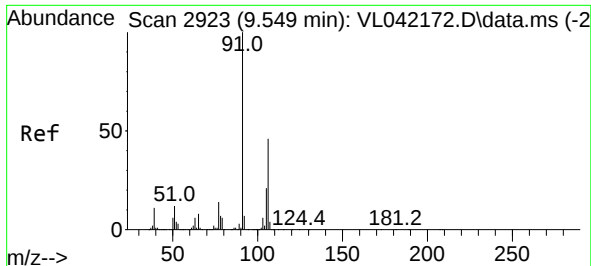
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 30.659 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. 0.210 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

Tgt Ion: 91 Resp: 2036145
Ion Ratio Lower Upper
91 100
106 30.1 24.2 36.2





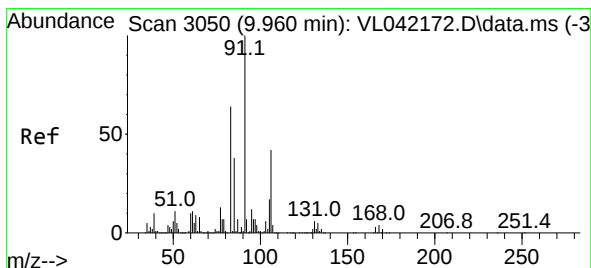
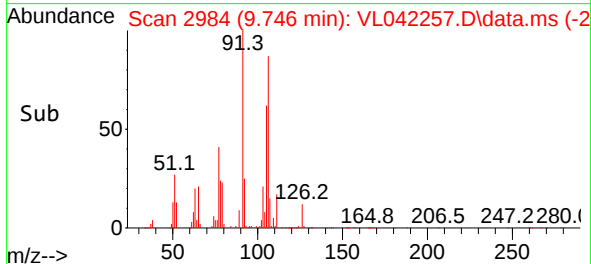
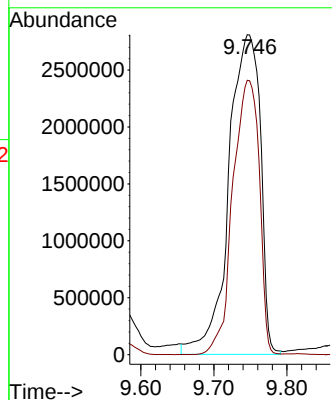
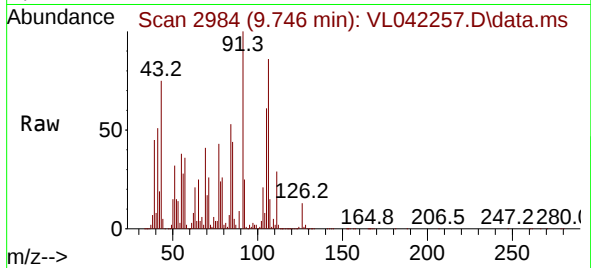
#59
m/p-Xylene
Concen: 159.348 ppbv m
RT: 9.746 min Scan# 2923
Delta R.T. 0.197 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 91 Resp: 8450348
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

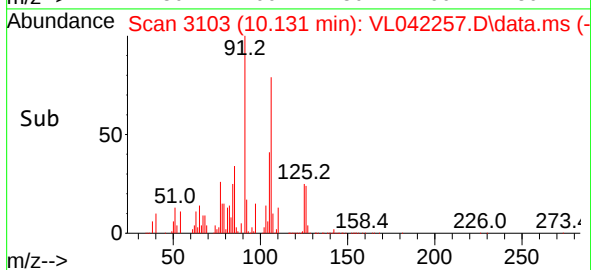
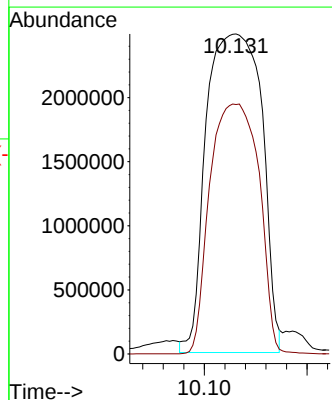
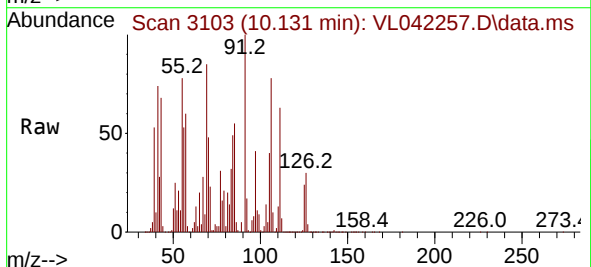
Manual Integrations
APPROVED

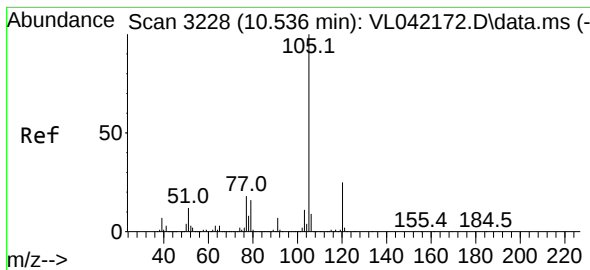
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 175.287 ppbv m
RT: 10.131 min Scan# 3103
Delta R.T. 0.171 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

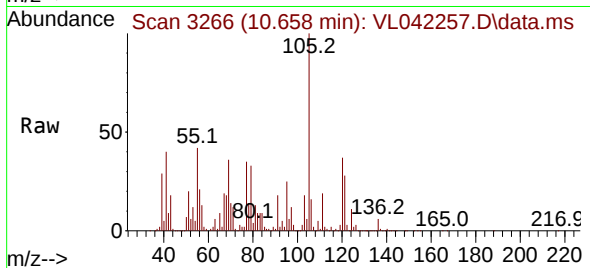
Tgt Ion: 91 Resp: 9318527
Ion Ratio Lower Upper
91 100
106 0.0 20.8 62.5





#62
Isopropylbenzene
Concen: 65.193 ppbv
RT: 10.658 min Scan# 31
Delta R.T. 0.123 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

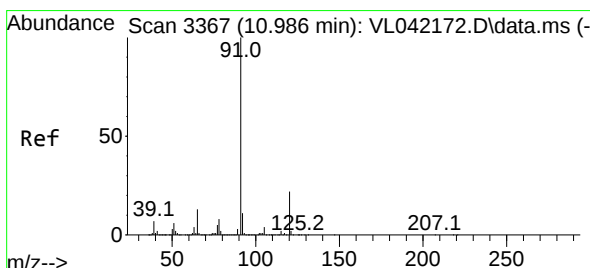
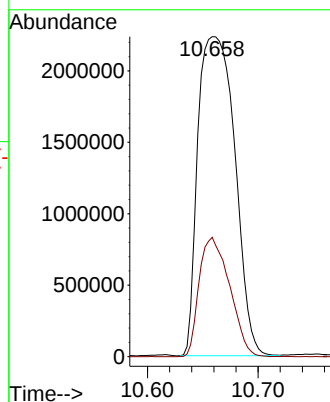
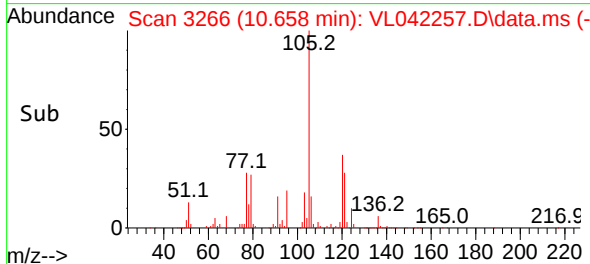
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion:105 Resp: 518273
Ion Ratio Lower Upper
105 100
120 30.9 19.9 29.9

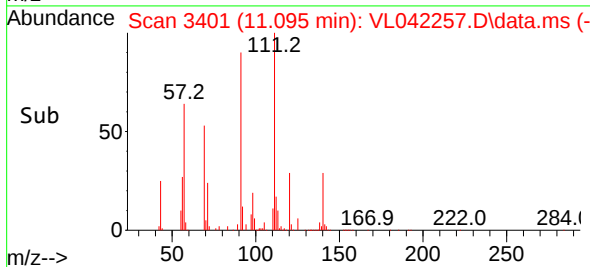
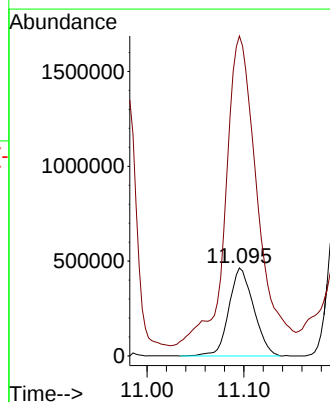
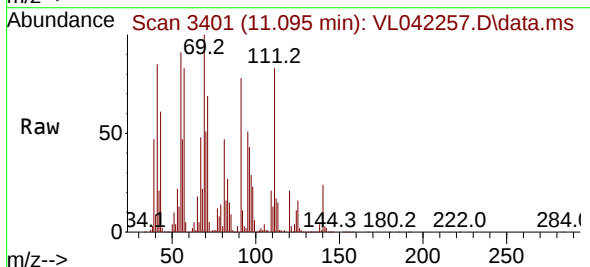
Manual Integrations
APPROVED

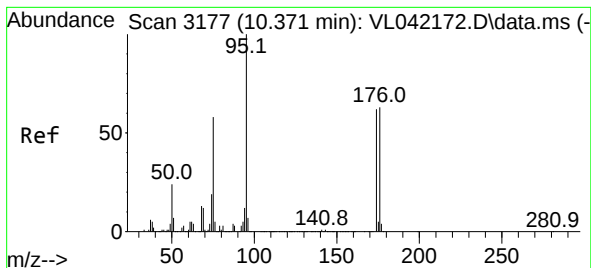
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#64
n-propylbenzene
Concen: 40.273 ppbv
RT: 11.095 min Scan# 3401
Delta R.T. 0.110 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

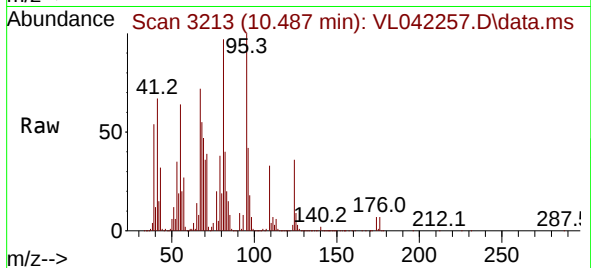
Tgt Ion:120 Resp: 824157
Ion Ratio Lower Upper
120 100
91 441.9 376.9 565.3





#68
1-Bromo-4-Fluorobenzene
Concen: 232.561 ppbv
RT: 10.487 min Scan# 3177
Delta R.T. 0.116 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

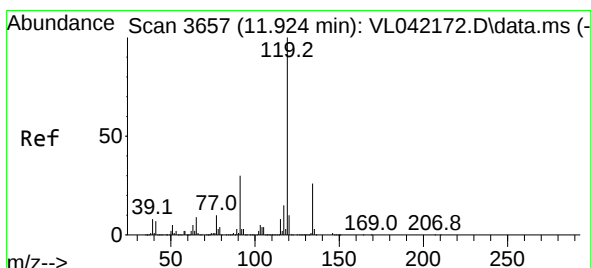
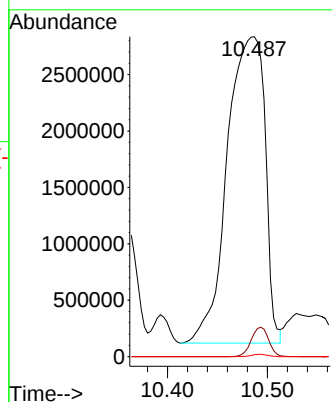
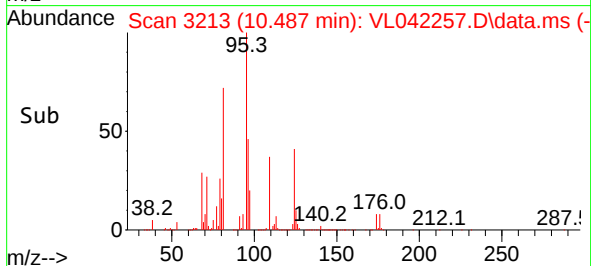
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



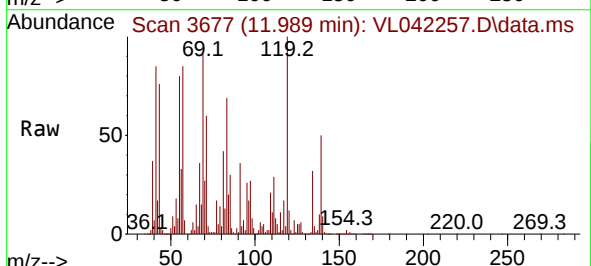
Tgt Ion: 95 Resp: 714055
Ion Ratio Lower Upper
95 100
174 4.5 50.6 76.0#
175 0.3 3.8 5.6#

Manual Integrations
APPROVED

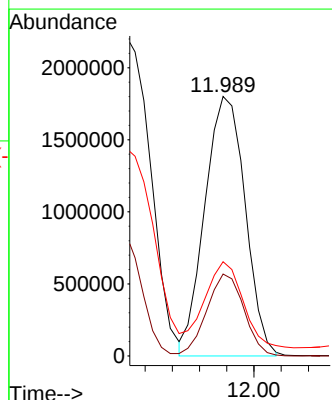
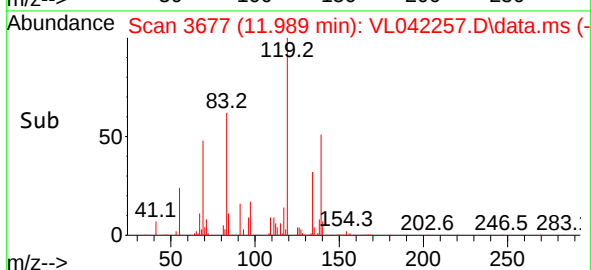
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

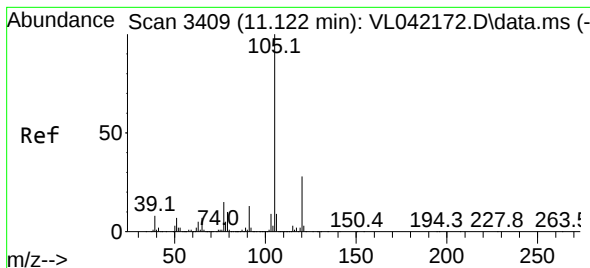


#69
p-Isopropyltoluene
Concen: 21.029 ppbv m
RT: 11.989 min Scan# 3677
Delta R.T. 0.064 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26



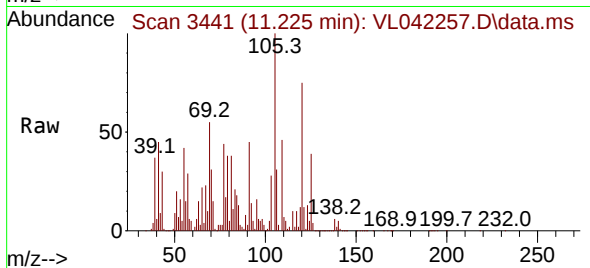
Tgt Ion:119 Resp: 1850506
Ion Ratio Lower Upper
119 100
134 0.0 20.4 30.6#
91 17.4 23.7 35.5#





#72
4-Ethyltoluene
Concen: 183.018 ppbv
RT: 11.225 min Scan# 3409
Delta R.T. 0.103 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

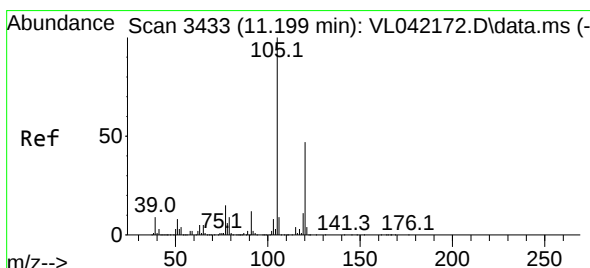
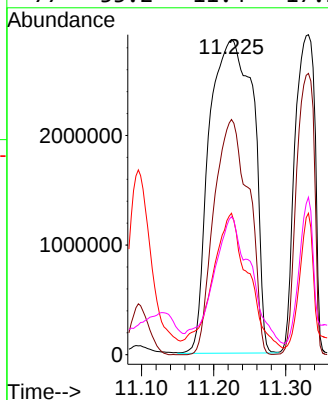
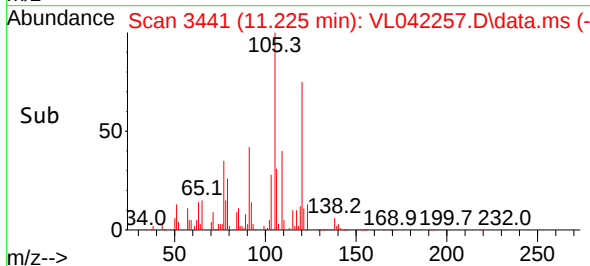
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion:105 Resp:1211430
Ion Ratio Lower Upper
105 100
120 59.8 23.4 35.0
91 34.2 10.3 15.5
77 33.2 11.4 17.2#

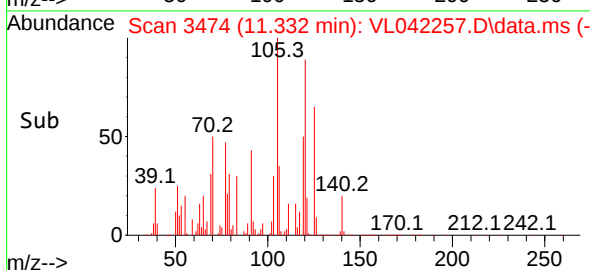
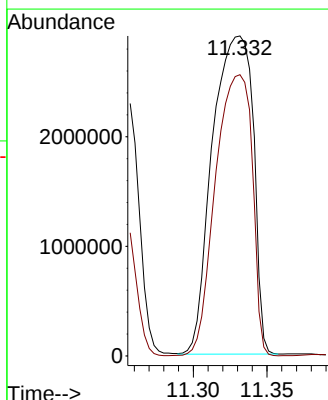
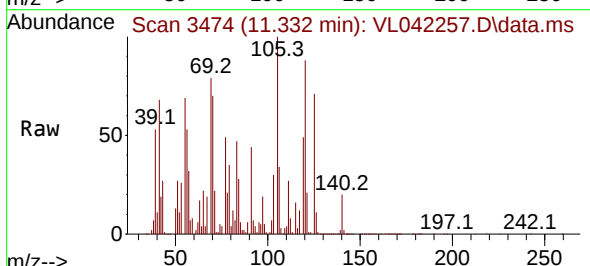
Manual Integrations
APPROVED

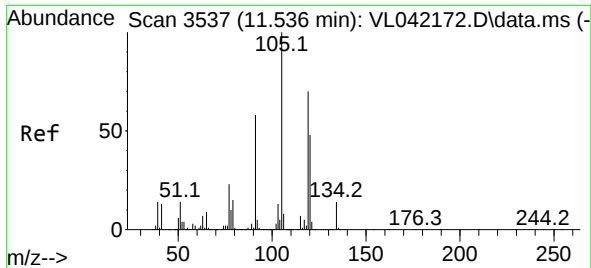
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#73
1,3,5-Trimethylbenzene
Concen: 96.463 ppbv
RT: 11.332 min Scan# 3474
Delta R.T. 0.132 min
Lab File: VL042257.D
Acq: 08 Apr 2025 11:26

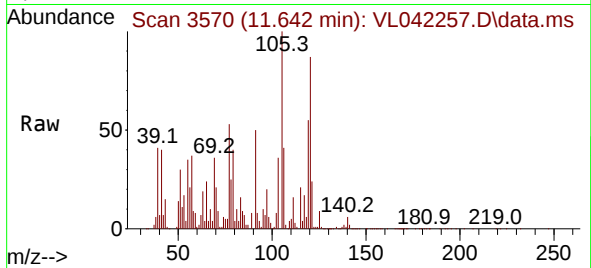
Tgt Ion:105 Resp: 5576526
Ion Ratio Lower Upper
105 100
120 88.4 37.4 56.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 123.444 ppbv
 RT: 11.642 min Scan# 31
 Delta R.T. 0.107 min
 Lab File: VL042257.D
 Acq: 08 Apr 2025 11:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025



Tgt Ion:105 Resp: 8221264

Ion	Ratio	Lower	Upper
105	100		
120	87.5	38.6	58.0
91	47.2	46.2	69.2
77	46.7	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

