

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042320.D
 Acq On : 11 Apr 2025 15:01
 Operator : SY/MD
 Sample : Q1665-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-1-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 23:01:04 2025

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

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

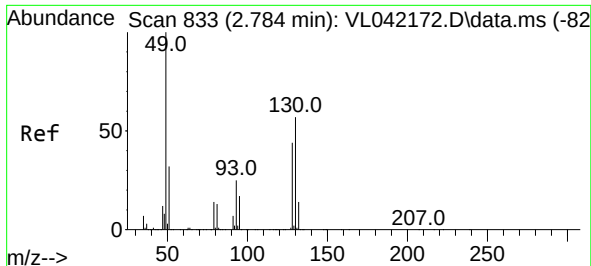
QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	183875	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	460651	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	381290	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	314052	10.030	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	11636	0.429	ppbv	90
4) Chloromethane	1.531	50	6489	0.585	ppbv #	86
9) Propene	1.486	41	48793m	3.838	ppbv	
11) Trichlorofluoromethane	1.877	101	5866	0.222	ppbv	100
13) Ethanol	1.722	45	1300122	1081.877	ppbv	88
15) Acetone	1.832	43	2018088	78.476	ppbv #	79
17) tert-Butyl alcohol	2.043	59	13419m	0.419	ppbv	
19) Isopropyl Alcohol	1.884	45	743440	51.238	ppbv #	5
20) Methylene Chloride	2.062	84	141997	14.826	ppbv	96
26) Hexane	2.826	57	208675	8.094	ppbv #	41
29) Chloroform	2.848	83	40045	1.061	ppbv	96
34) 2-Butanone	2.557	43	411404	12.316	ppbv	98
35) Carbon Tetrachloride	3.755	117	2791m	0.078	ppbv	
36) Benzene	3.654	78	21158	0.463	ppbv	98
50) 4-Methyl-2-Pentanone	5.774	43	8442m	0.159	ppbv	
53) Toluene	6.930	91	21762m	0.402	ppbv	
59) m/p-Xylene	9.532	91	12058m	0.223	ppbv	
60) o-Xylene	9.966	91	7975	0.147	ppbv	99
69) p-Isopropyltoluene	11.927	119	10393	0.116	ppbv #	90
72) 4-Ethyltoluene	11.125	105	7507	0.111	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.205	105	9483	0.161	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	38801	0.571	ppbv #	68

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



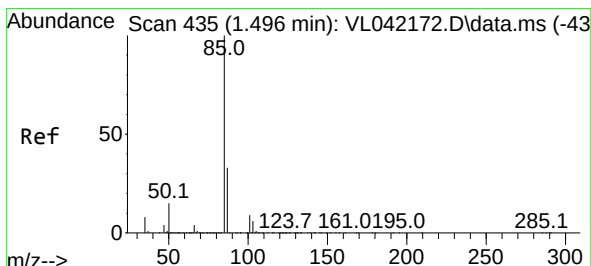
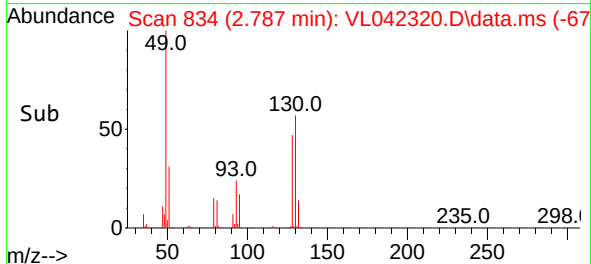
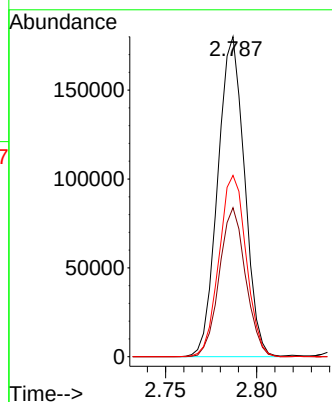
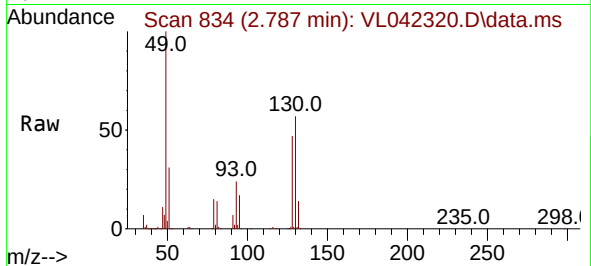
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Tgt Ion: 49 Resp: 183875
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.5 28.8 86.4

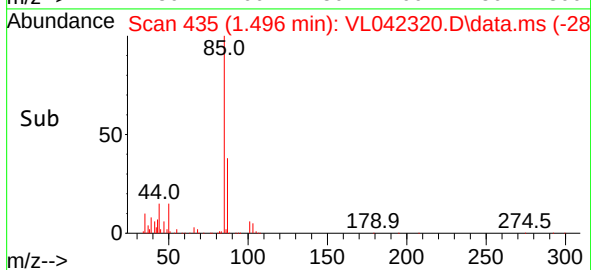
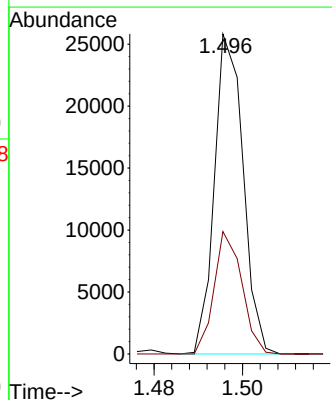
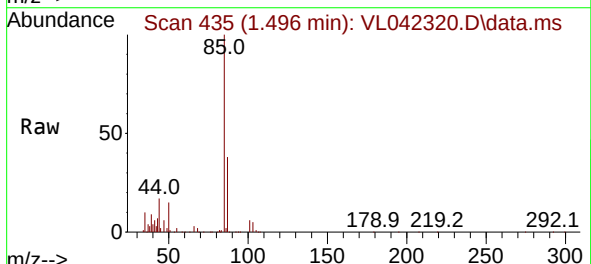
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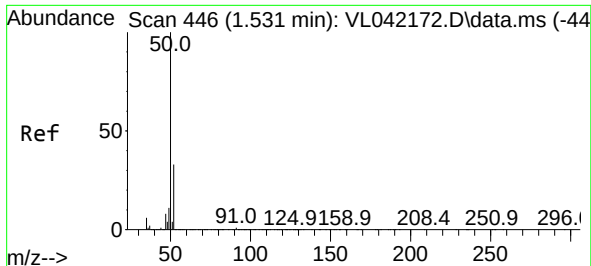
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

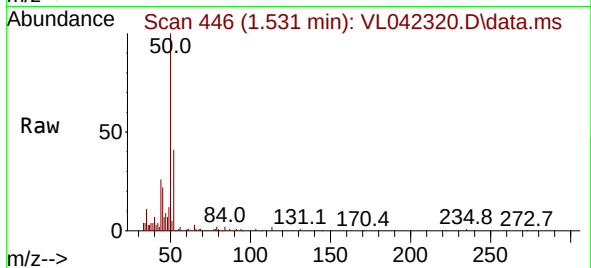
Tgt Ion: 85 Resp: 11636
Ion Ratio Lower Upper
85 100
87 38.2 26.1 39.1





#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

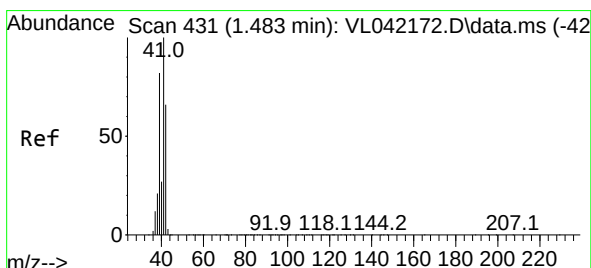
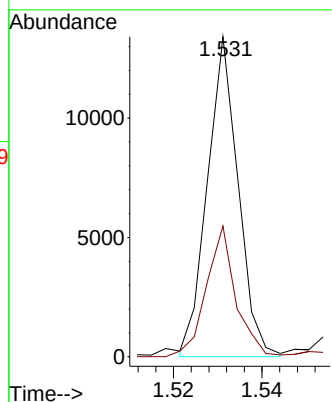
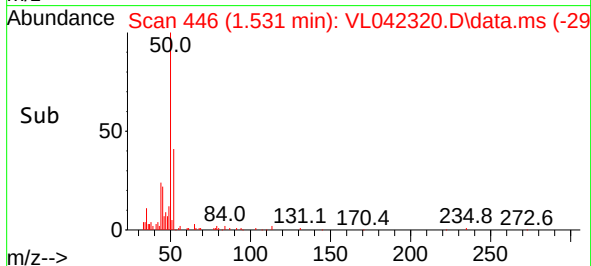
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



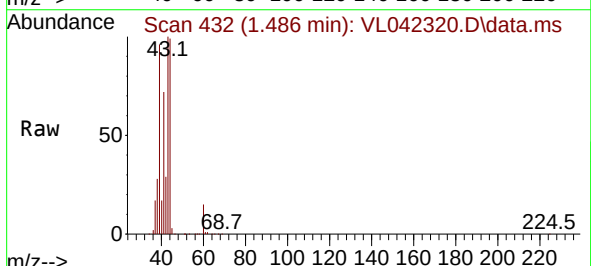
Tgt Ion: 50 Resp: 6489
Ion Ratio Lower Upper
50 100
52 40.7 26.1 39.1

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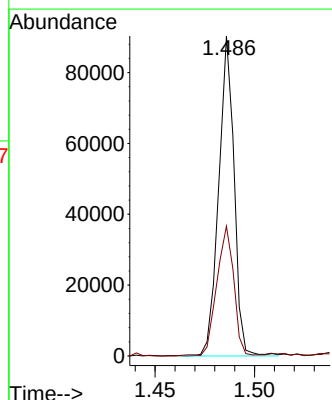
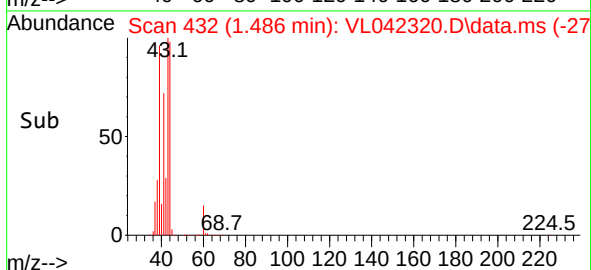
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

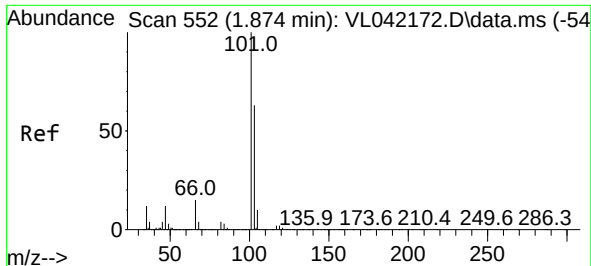


#9
Propene
Concen: 3.838 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



Tgt Ion: 41 Resp: 48793
Ion Ratio Lower Upper
41 100
42 87.5 55.4 83.2





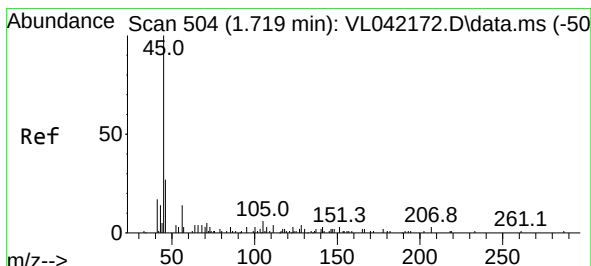
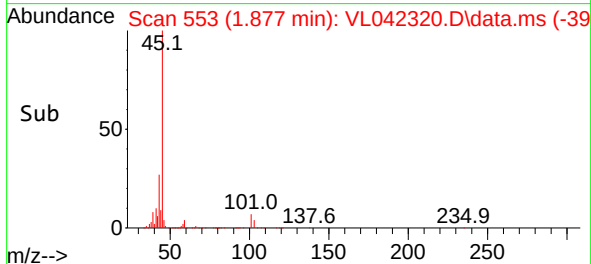
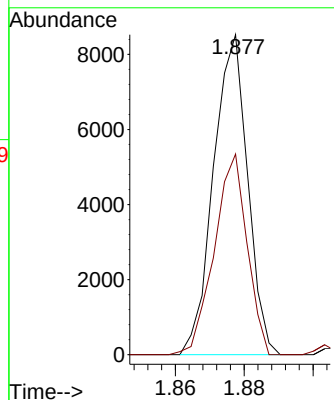
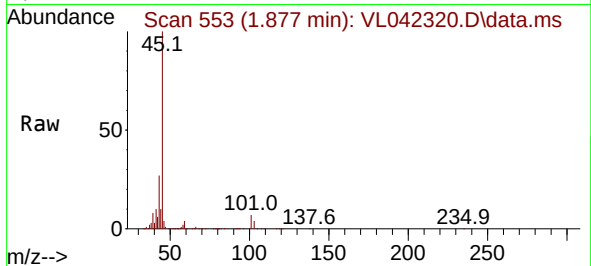
#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.877 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025

Tgt Ion:101 Resp: 586
Ion Ratio Lower Upper
101 100
103 62.7 50.2 75.2

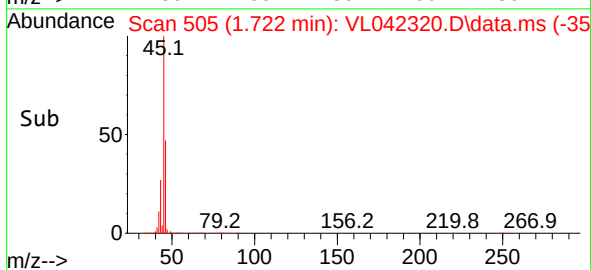
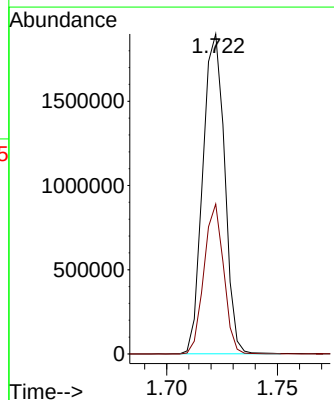
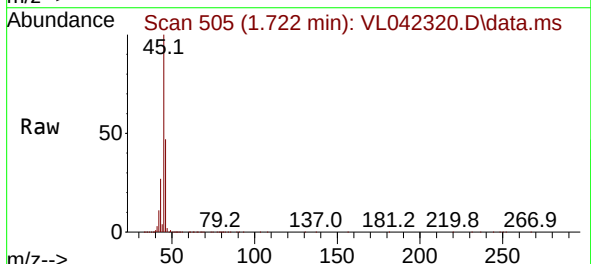
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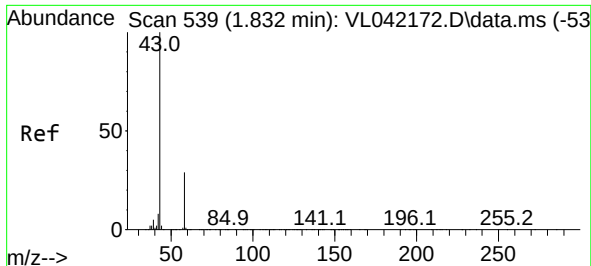
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#13
Ethanol
Concen: 1081.877 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

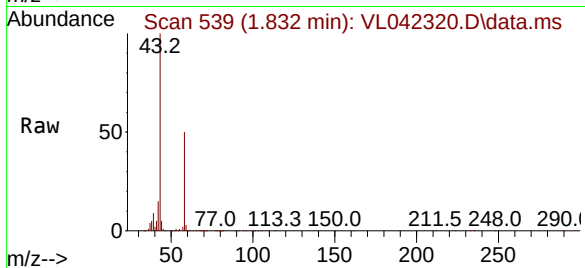
Tgt Ion: 45 Resp: 1300122
Ion Ratio Lower Upper
45 100
46 42.5 20.2 80.8





#15
Acetone
Concen: 78.476 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

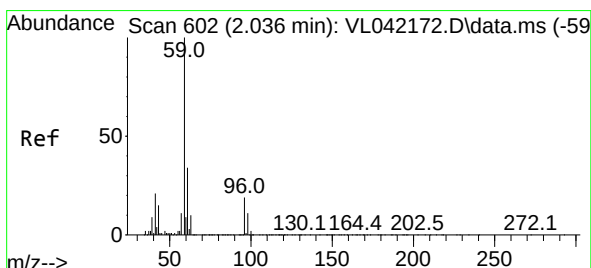
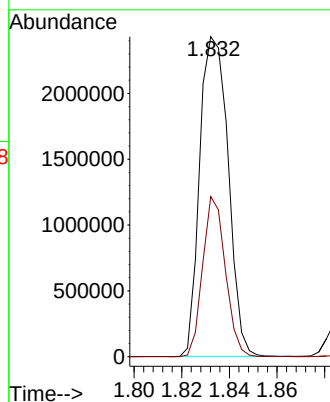
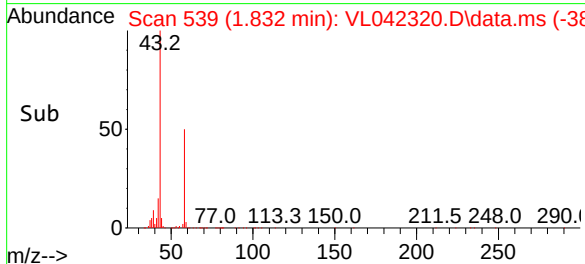
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



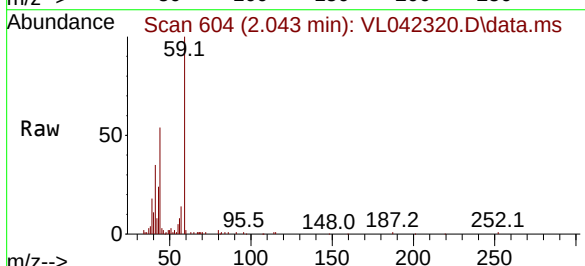
Tgt Ion: 43 Resp: 201808
Ion Ratio Lower Upper
43 100
58 40.0 23.2 34.8

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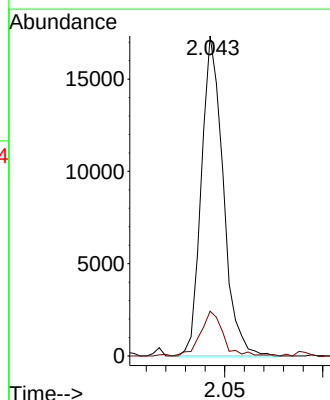
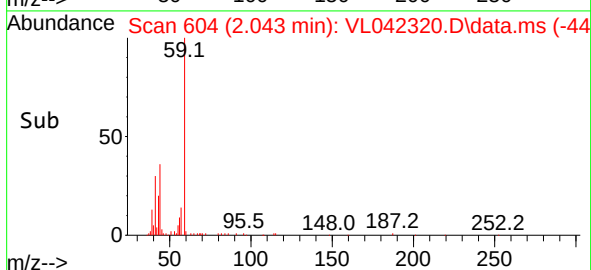
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

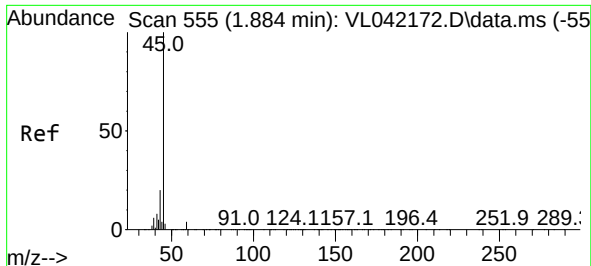


#17
tert-Butyl alcohol
Concen: 0.419 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



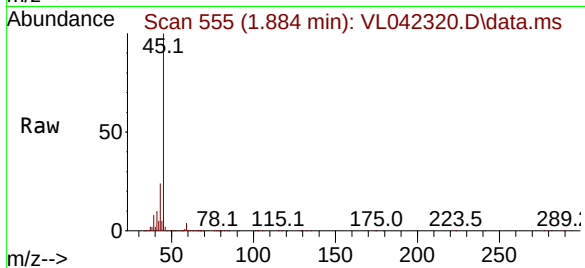
Tgt Ion: 59 Resp: 13419
Ion Ratio Lower Upper
59 100
57 20.2 8.9 13.3





#19
Isopropyl Alcohol
Concen: 51.238 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

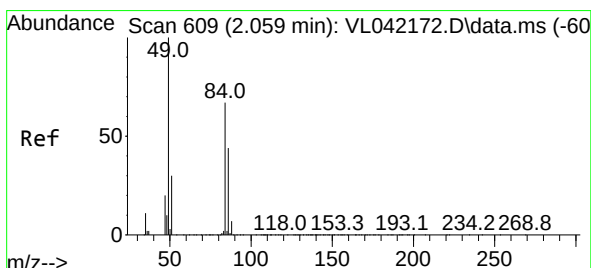
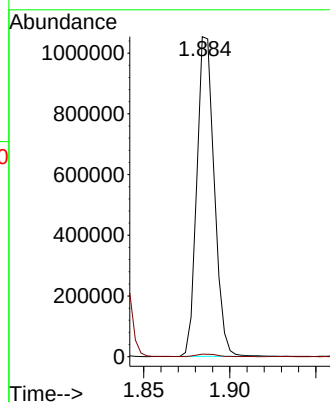
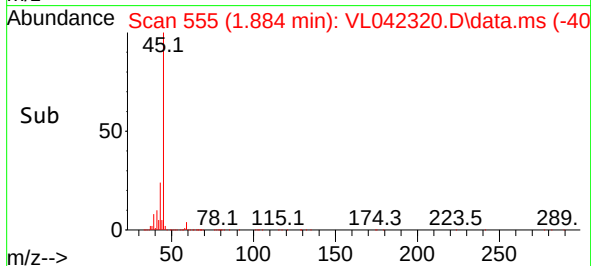
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



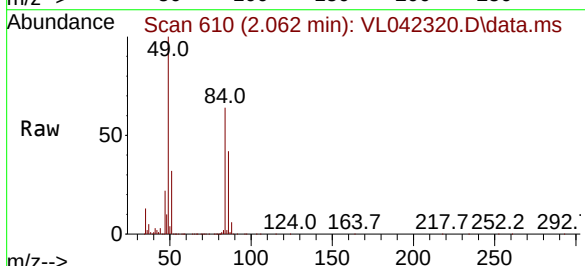
Tgt Ion: 45 Resp: 743440
Ion Ratio Lower Upper
45 100
58 108.7 36.9 55.3

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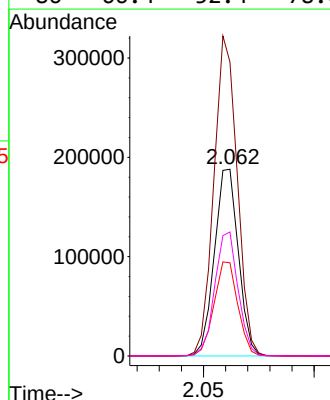
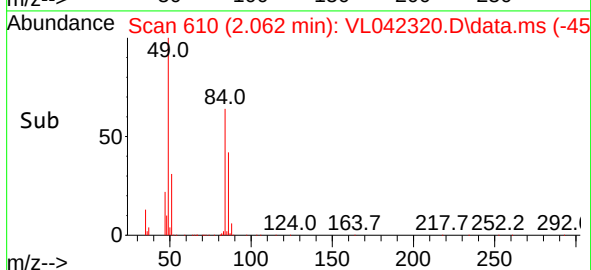
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

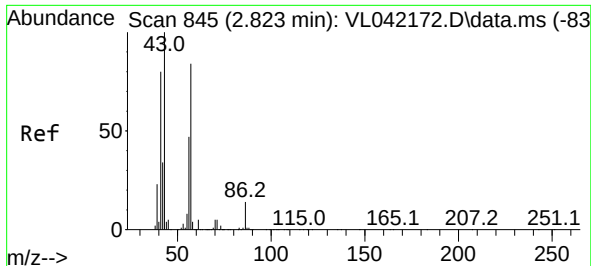


#20
Methylene Chloride
Concen: 14.826 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



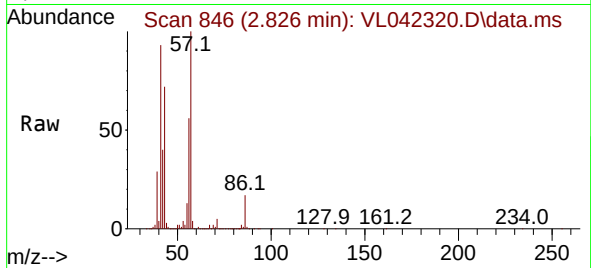
Tgt Ion: 84 Resp: 141997
Ion Ratio Lower Upper
84 100
49 157.4 120.2 180.4
51 49.9 37.4 56.0
86 66.4 52.4 78.6





#26
Hexane
Concen: 8.094 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

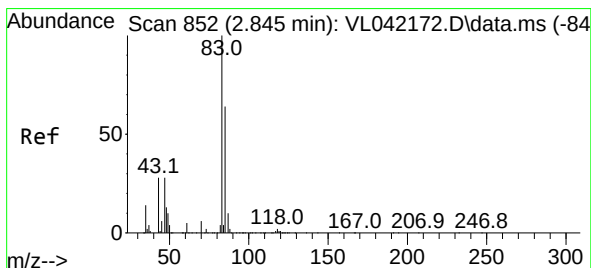
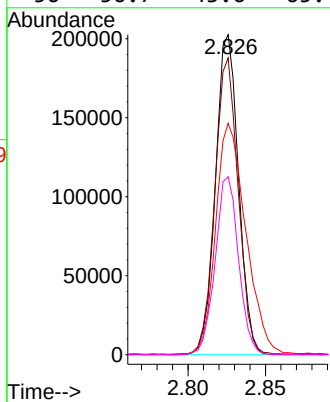
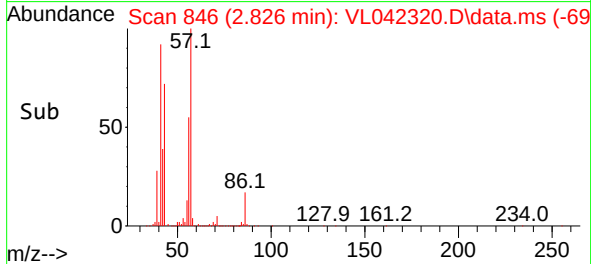
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



Tgt Ion: 57 Resp: 208679
Ion Ratio Lower Upper
57 100
41 94.9 76.6 114.8
43 94.7 207.8 311.8
56 56.7 43.6 65.4

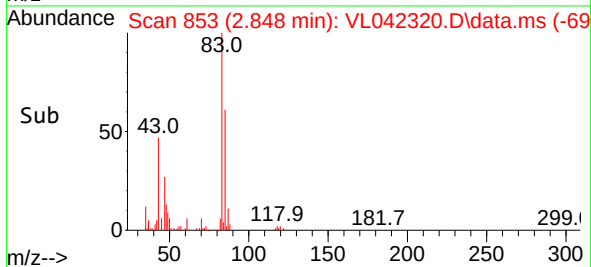
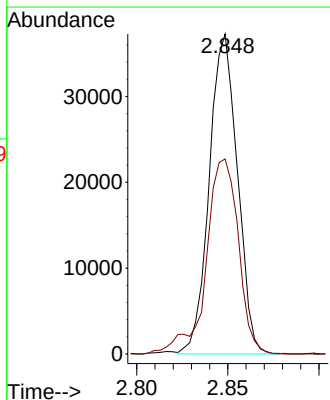
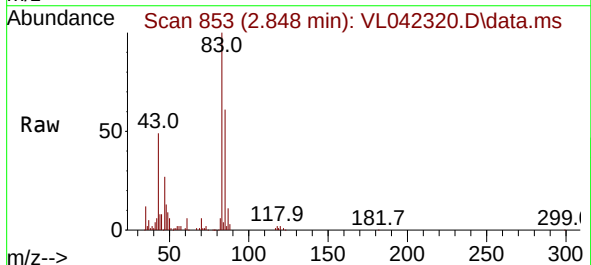
Manual Integrations
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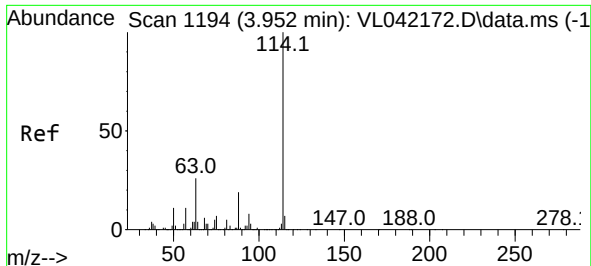
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#29
Chloroform
Concen: 1.061 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 83 Resp: 40045
Ion Ratio Lower Upper
83 100
85 60.9 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL042320.D

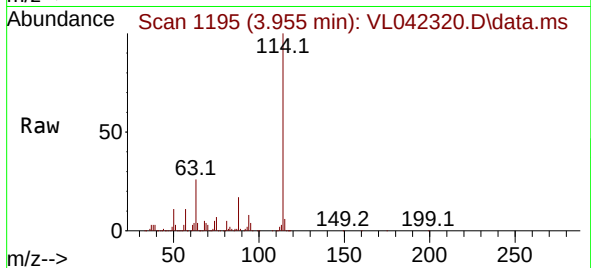
Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-1-3242025



Tgt Ion:114 Resp: 46065

Ion Ratio Lower Upper

114 100

63 25.2 20.7 31.1

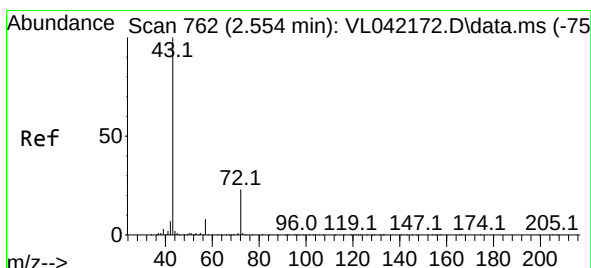
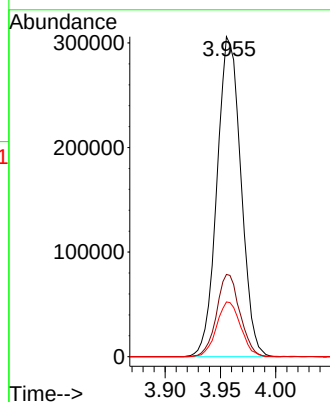
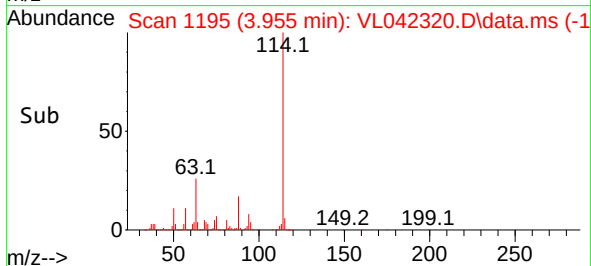
88 17.2 15.0 22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#34

2-Butanone

Concen: 12.316 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042320.D

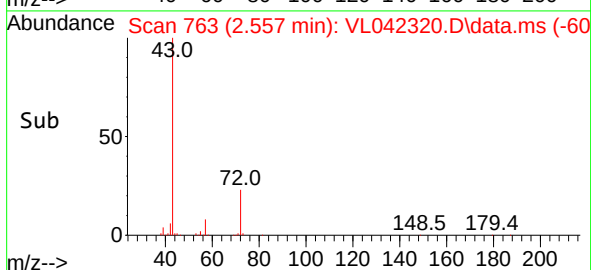
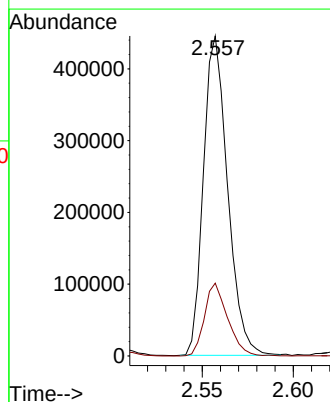
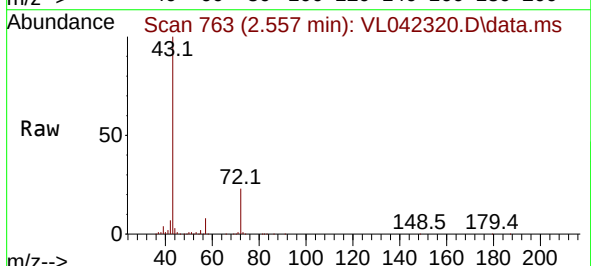
Acq: 11 Apr 2025 15:01

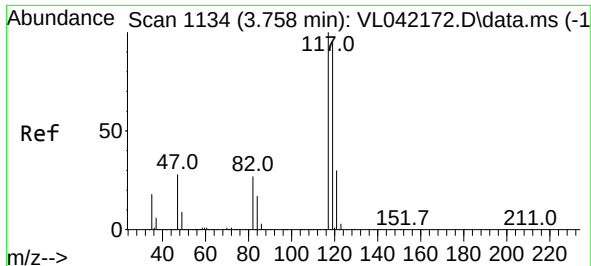
Tgt Ion: 43 Resp: 411404

Ion Ratio Lower Upper

43 100

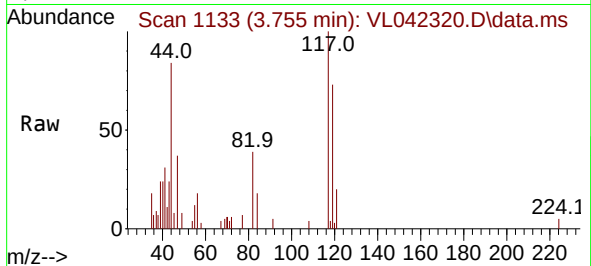
72 21.9 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

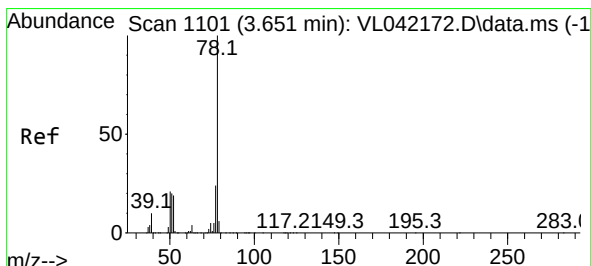
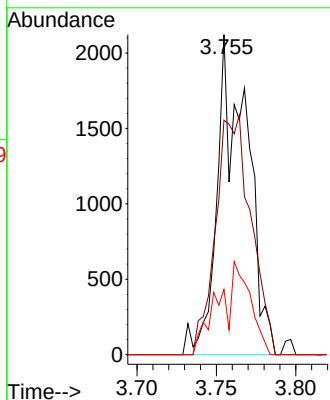
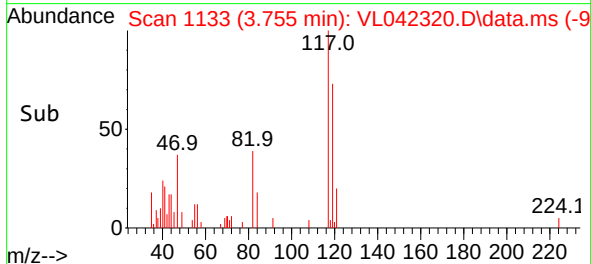
Instrument : MSVOA_L
ClientSampleId : IA-B10-1-3242025



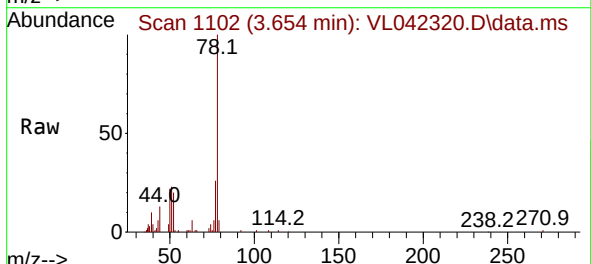
Tgt Ion: 117 Resp: 279
Ion Ratio Lower Upper
117 100
119 73.3 76.2 114.2
121 20.4 24.2 36.4

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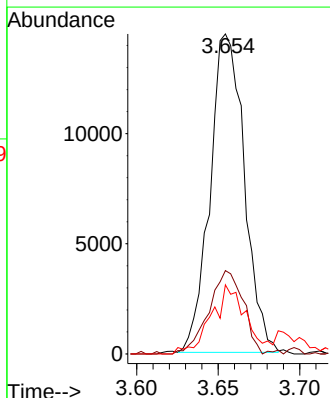
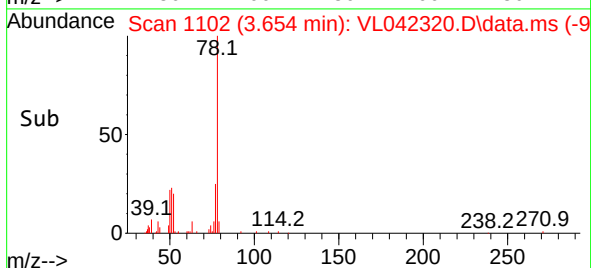
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

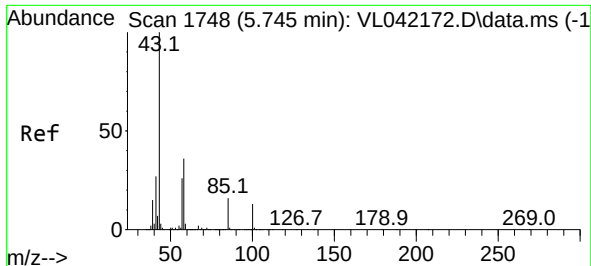


#36
Benzene
Concen: 0.463 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



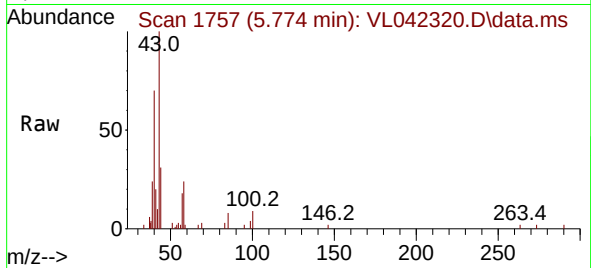
Tgt Ion: 78 Resp: 21158
Ion Ratio Lower Upper
78 100
77 25.2 19.1 28.7
50 19.8 16.6 24.8





#50
4-Methyl-2-Pentanone
Concen: 0.159 ppbv m
RT: 5.774 min Scan# 1757
Delta R.T. 0.029 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

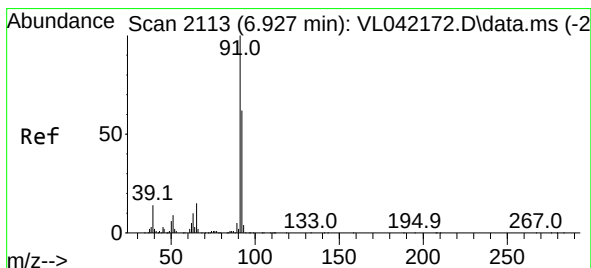
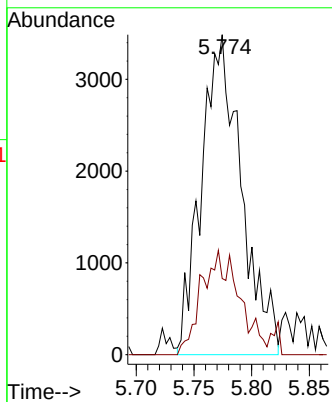
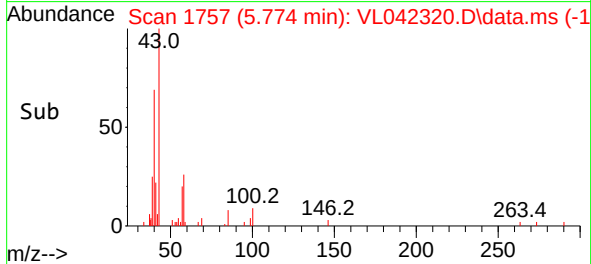
Instrument : MSVOA_L
ClientSampleId : IA-B10-1-3242025



Tgt Ion: 43 Resp: 844
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

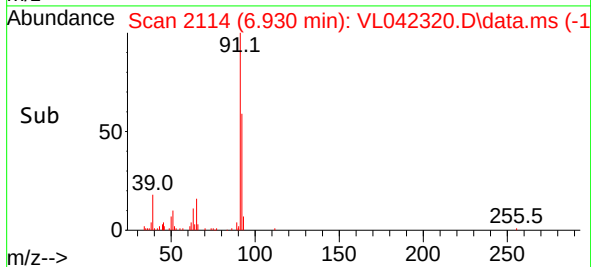
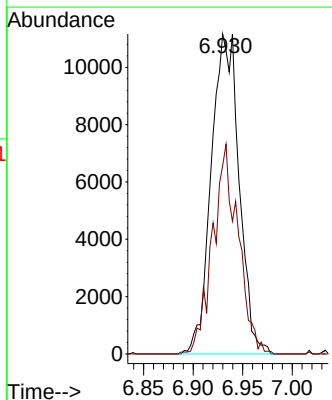
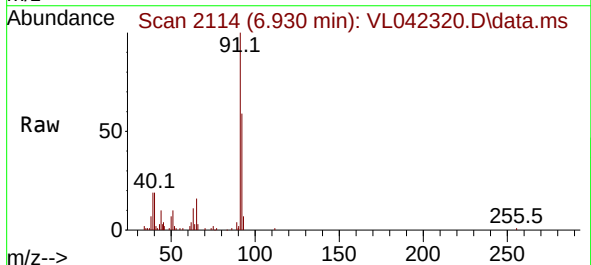
Manual Integrations
APPROVED

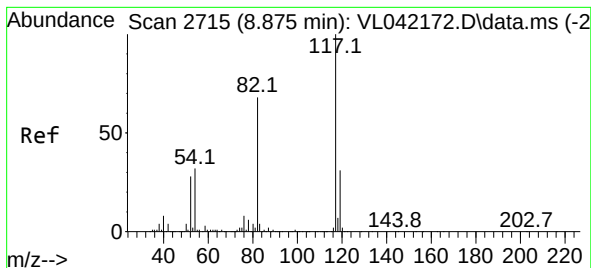
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#53
Toluene
Concen: 0.402 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 21762
Ion Ratio Lower Upper
91 100
92 60.1 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-1-3242025

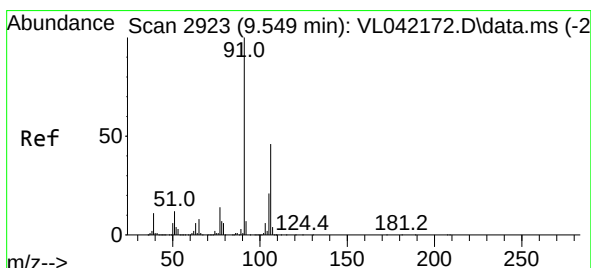
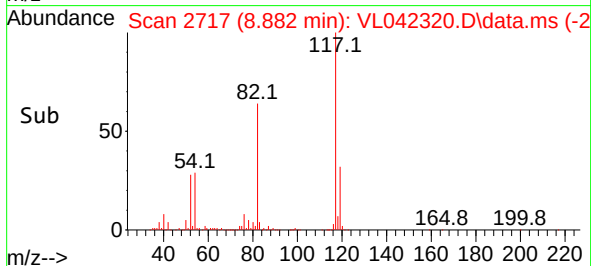
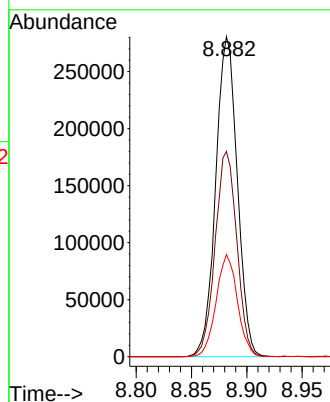
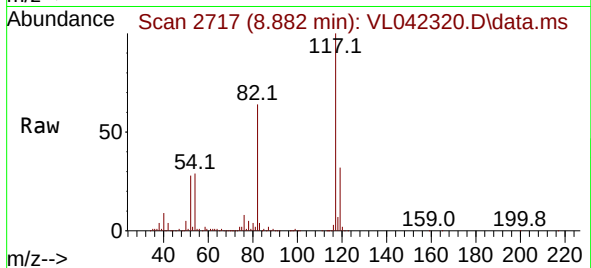
Tgt Ion: 117 Resp: 381290

Ion	Ratio	Lower	Upper
117	100		
82	64.4	55.8	83.6
119	31.5	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#59

m/p-Xylene

Concen: 0.223 ppbv m

RT: 9.532 min Scan# 2918

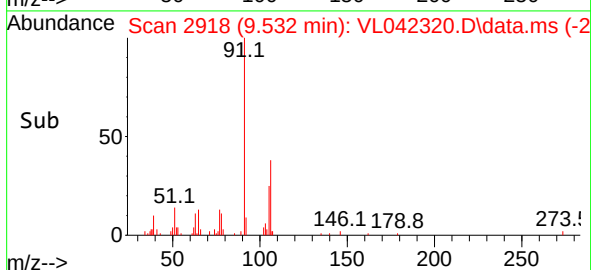
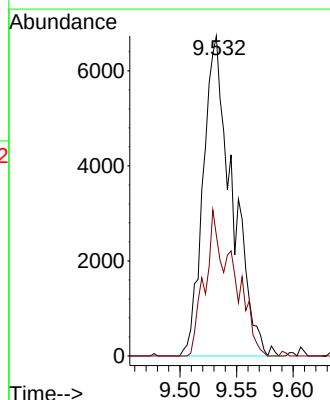
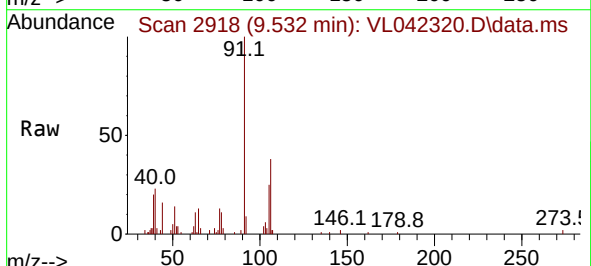
Delta R.T. -0.016 min

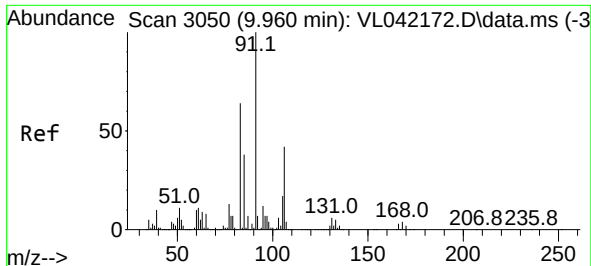
Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 12058

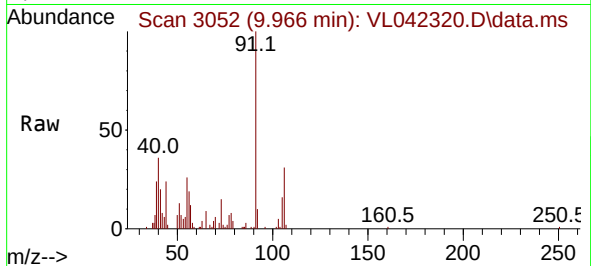
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6





#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

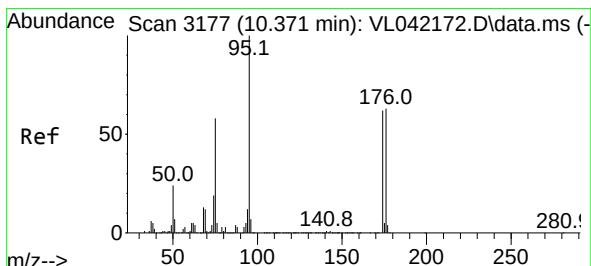
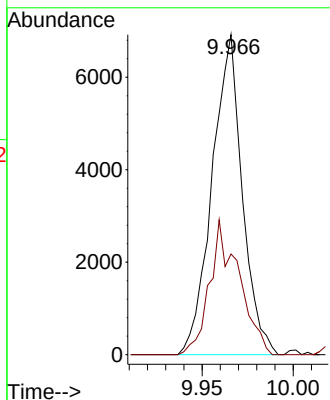
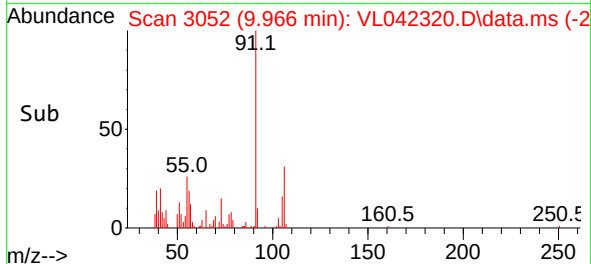
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



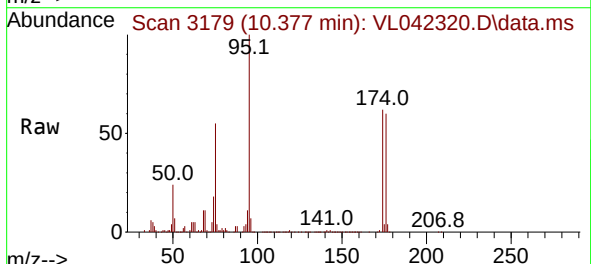
Tgt Ion: 91 Resp: 7975
Ion Ratio Lower Upper
91 100
106 41.2 20.8 62.5

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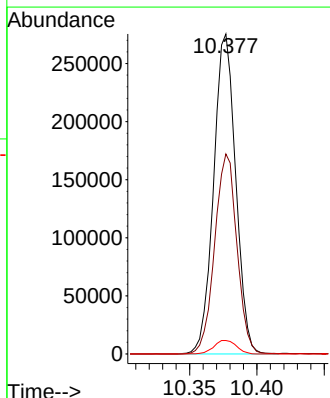
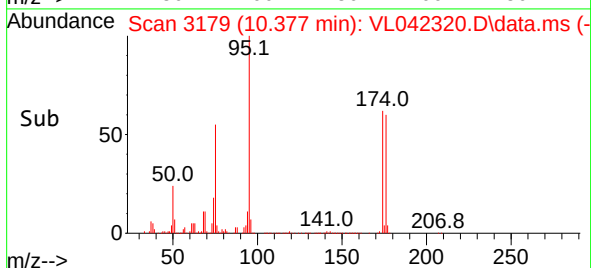
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

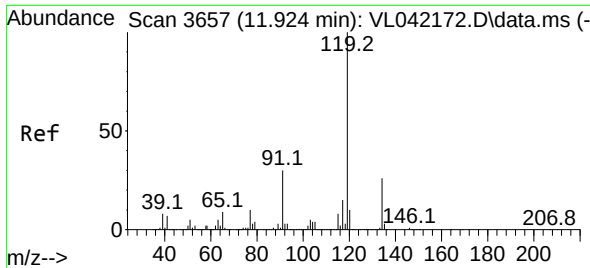


#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



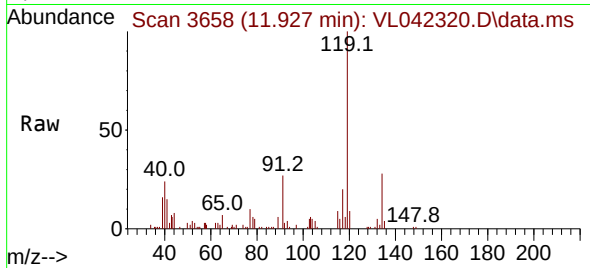
Tgt Ion: 95 Resp: 314052
Ion Ratio Lower Upper
95 100
174 63.2 50.6 76.0
175 4.3 3.8 5.6





#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.927 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

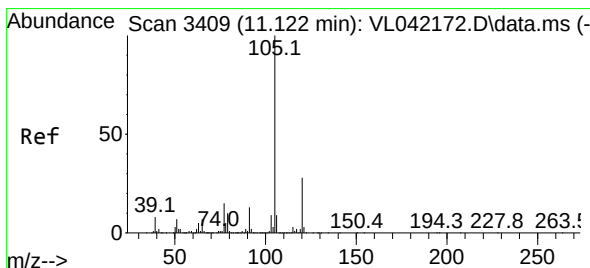
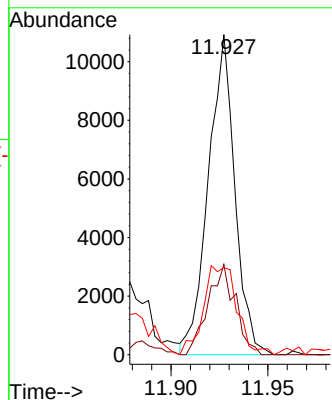
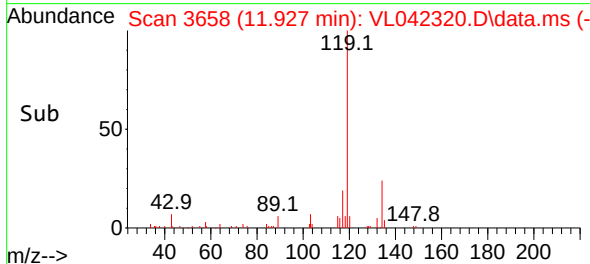
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025



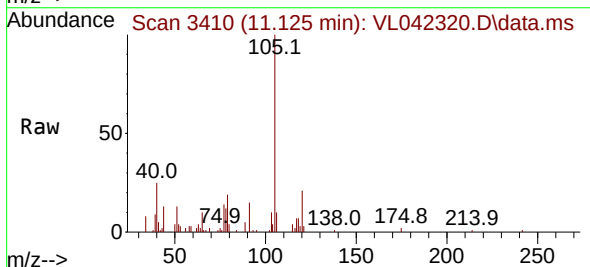
Tgt Ion:119 Resp: 1039
Ion Ratio Lower Upper
119 100
134 33.8 20.4 30.6
91 32.3 23.7 35.5

Manual Integrations
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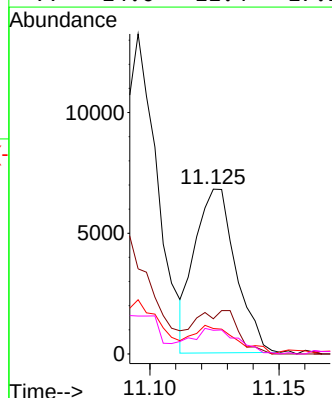
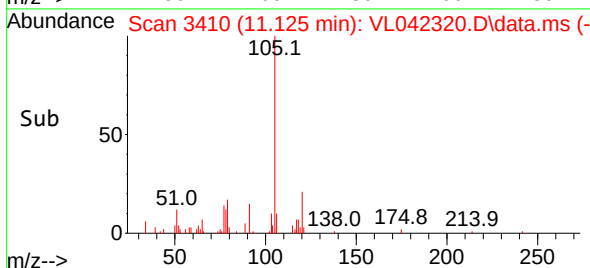
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

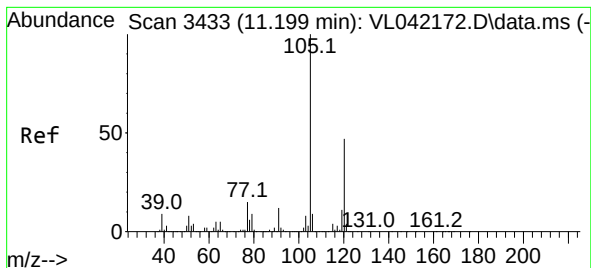


#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01



Tgt Ion:105 Resp: 7507
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 14.0 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.161 ppbv

RT: 11.205 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-1-3242025

Tgt Ion:105 Resp: 948

Ion Ratio Lower Upper

105 100

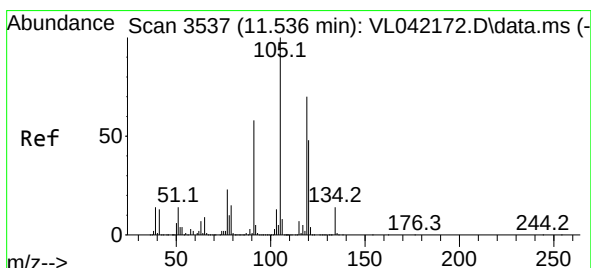
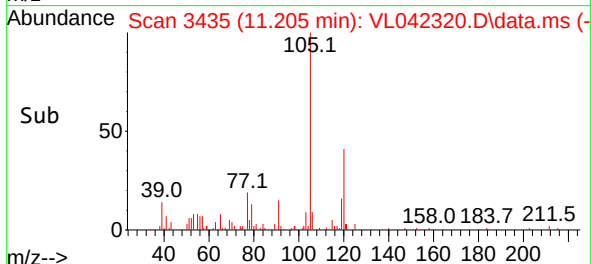
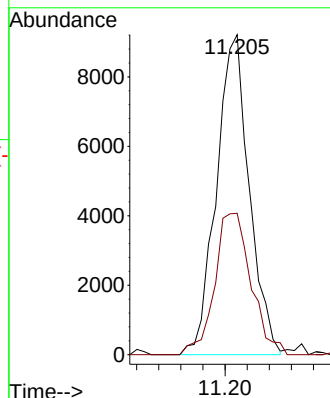
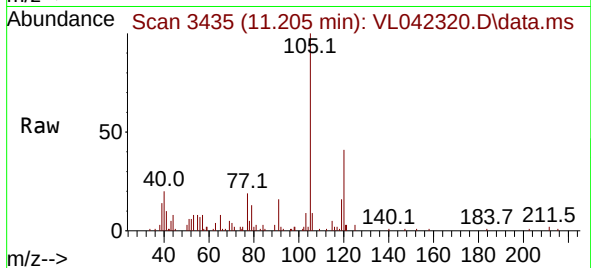
120 44.2 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.571 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Tgt Ion:105 Resp: 38801

Ion Ratio Lower Upper

105 100

120 46.2 38.6 58.0

91 11.5 46.2 69.2#

77 14.1 18.6 27.8#

