

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042411.D
 Acq On : 21 Apr 2025 19:16
 Operator : SY/MD
 Sample : Q1843-01DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:57:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	129760	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	357552	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	305947	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	265917	10.577	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.800%
Target Compounds						Qvalue
9) Propene	1.483	41	2390	0.240	ppbv	97
10) Heptane	4.988	43	4744m	0.170	ppbv	
13) Ethanol	1.722	45	2499m	1.581	ppbv	
15) Acetone	1.835	43	48083	2.264	ppbv	93
20) Methylene Chloride	2.062	84	1394	0.168	ppbv	87
26) Hexane	2.823	57	12264	0.579	ppbv #	34
34) 2-Butanone	2.560	43	17917	0.634	ppbv	100
51) 2-Hexanone	7.441	43	26456m	0.628	ppbv	
52) Tetrachloroethene	8.221	164	1173m	0.079	ppbv	
53) Toluene	6.936	91	20124m	0.435	ppbv	
58) Ethyl Benzene	9.354	91	21310	0.352	ppbv	98
59) m/p-Xylene	9.532	91	56104	1.149	ppbv	100
60) o-Xylene	9.963	91	30668	0.624	ppbv	99
62) Isopropylbenzene	10.539	105	14907	0.206	ppbv	99
64) n-propylbenzene	10.989	120	10199	0.562	ppbv	88
67) sec-Butylbenzene	11.769	105	30792	0.334	ppbv	100
69) p-Isopropyltoluene	11.927	119	15604	0.195	ppbv	97
72) 4-Ethyltoluene	11.125	105	34385	0.572	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	40995	0.772	ppbv	92
74) 1,2,4-Trimethylbenzene	11.539	105	106231	1.714	ppbv #	62

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

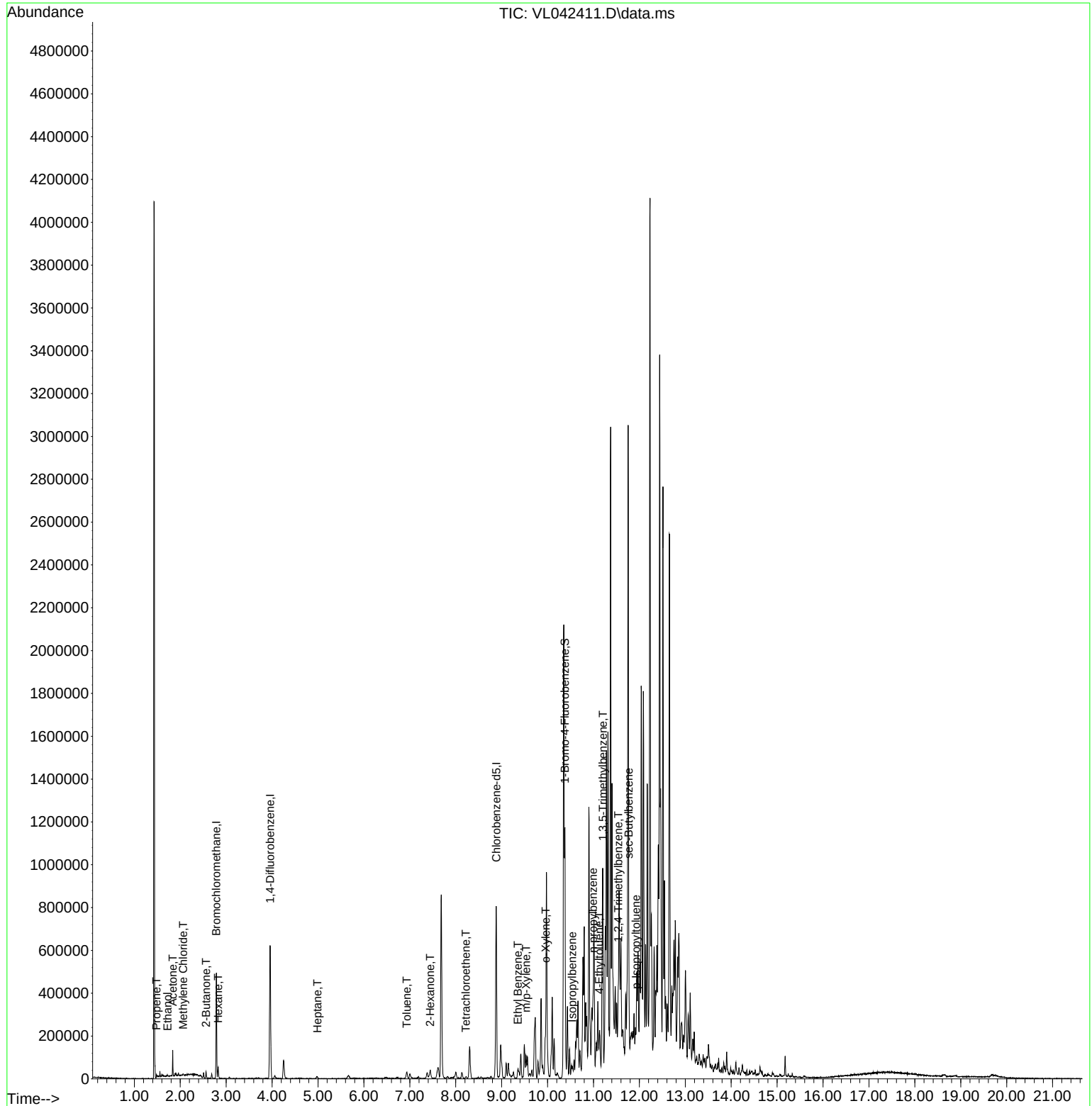
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042411.D
Acq On : 21 Apr 2025 19:16
Operator : SY/MD
Sample : Q1843-01DUP 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

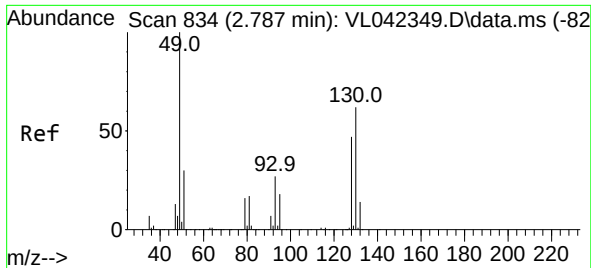
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Quant Time: Apr 22 02:57:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

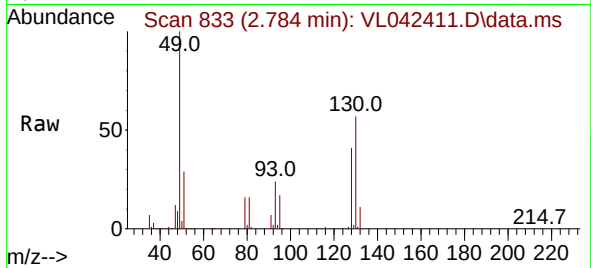
Reviewed By : Semsettin Yesilyurt 04/22/2025
Supervised By : Mahesh Dadoda 04/22/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

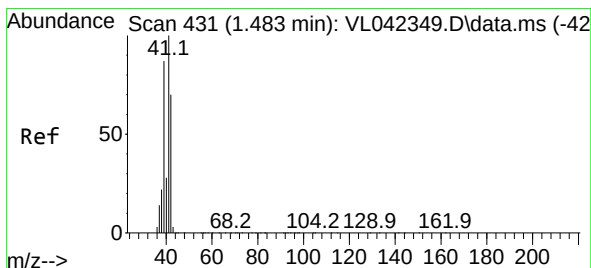
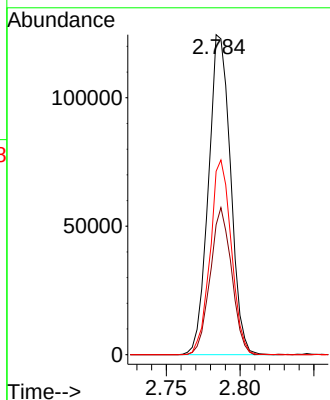
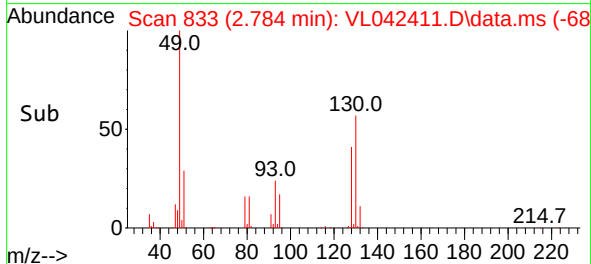
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 49 Resp: 129760
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 58.4 29.3 88.0

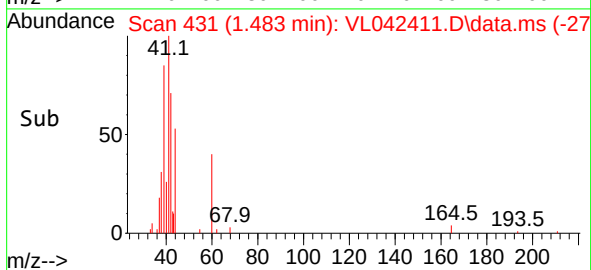
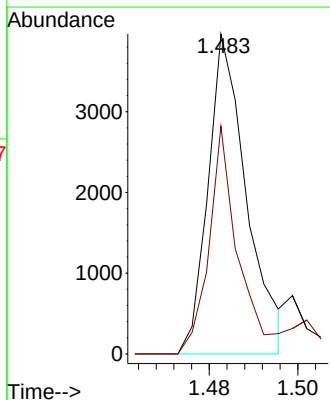
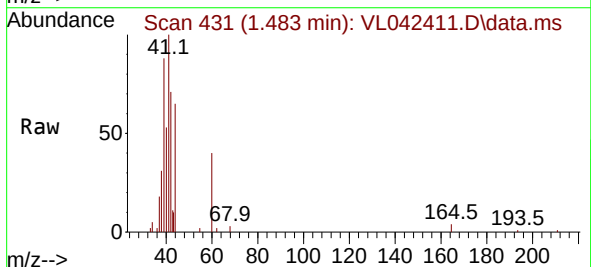
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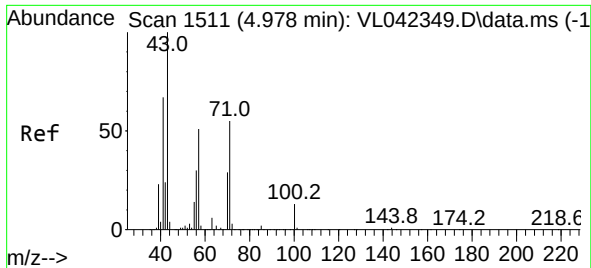
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#9
Propene
Concen: 0.240 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

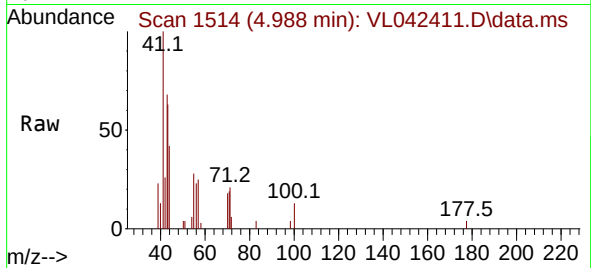
Tgt Ion: 41 Resp: 2390
Ion Ratio Lower Upper
41 100
42 67.7 56.2 84.4





#10
Heptane
Concen: 0.170 ppbv m
RT: 4.988 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

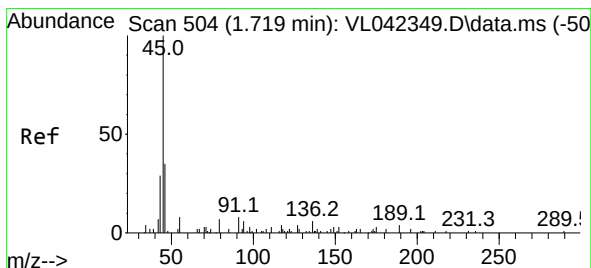
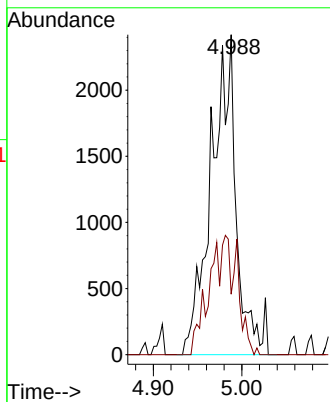
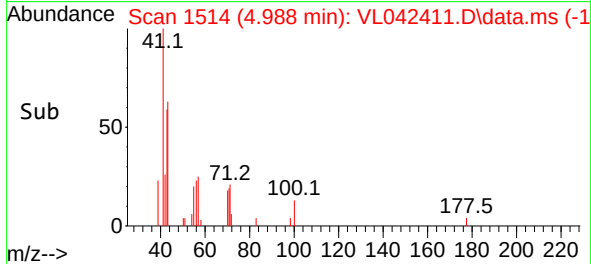
Instrument :
MSVOA_L
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SV1DUP



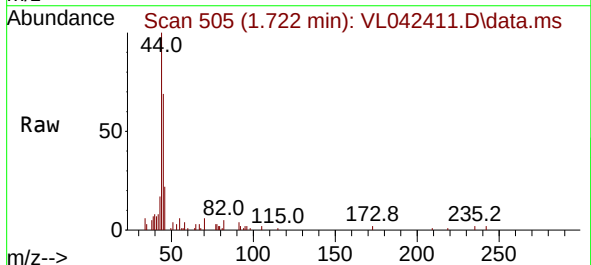
Tgt Ion: 43 Resp: 4744
Ion Ratio Lower Upper
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57 0.0 39.9 59.9

Manual Integrations
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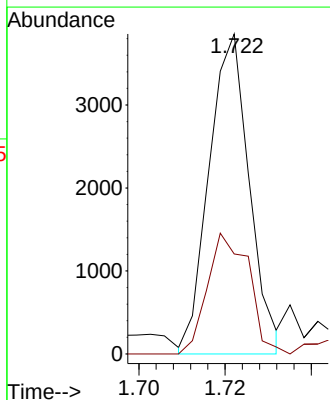
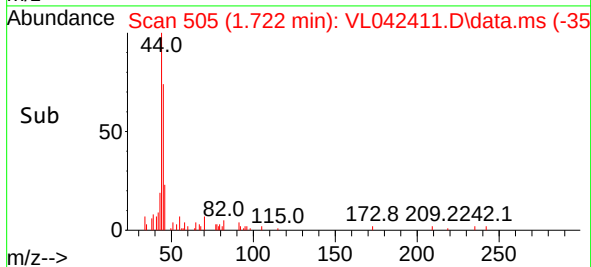
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

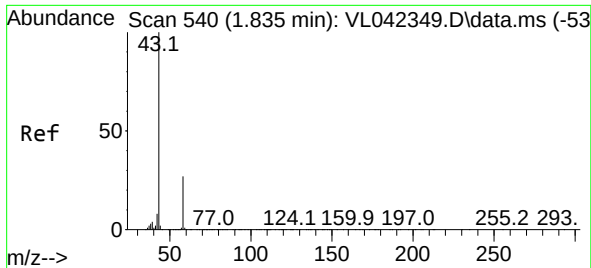


#13
Ethanol
Concen: 1.581 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16



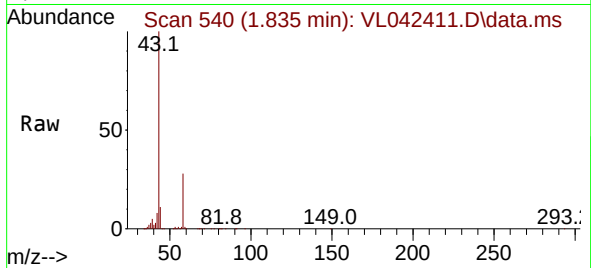
Tgt Ion: 45 Resp: 2499
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7





#15
Acetone
Concen: 2.264 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

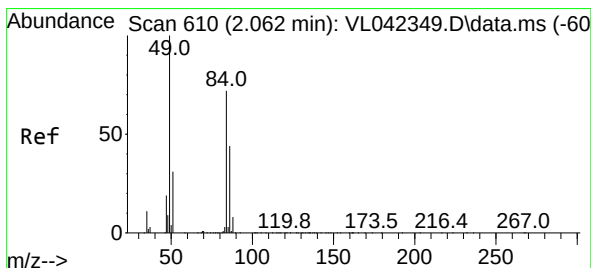
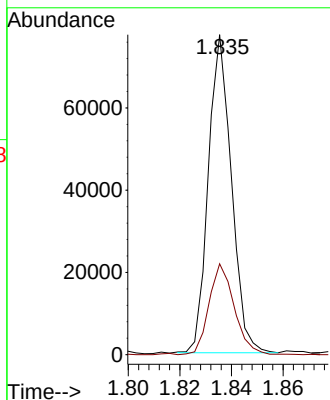
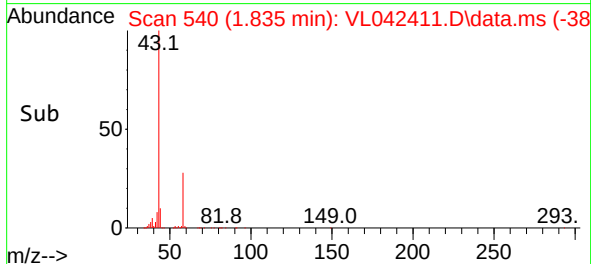
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



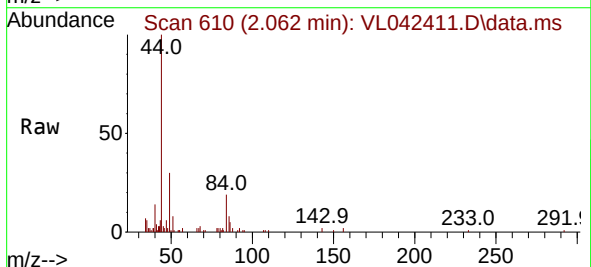
Tgt Ion: 43 Resp: 4808
Ion Ratio Lower Upper
43 100
58 31.6 22.4 33.6

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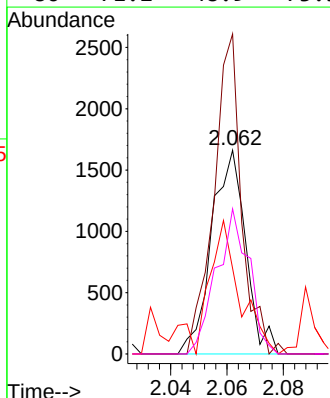
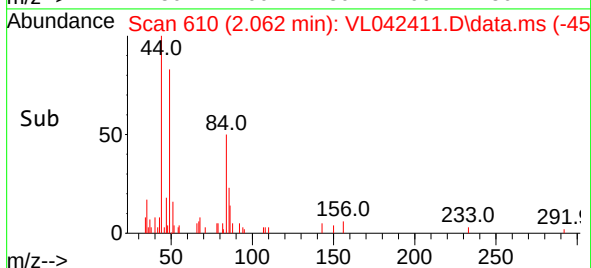
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

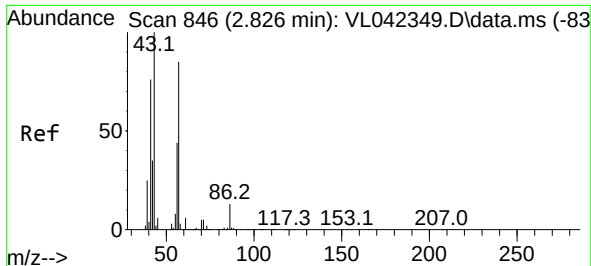


#20
Methylene Chloride
Concen: 0.168 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16



Tgt Ion: 84 Resp: 1394
Ion Ratio Lower Upper
84 100
49 157.0 111.6 167.4
51 48.9 35.1 52.7
86 71.2 48.9 73.3





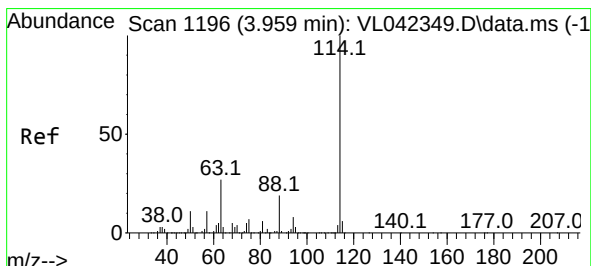
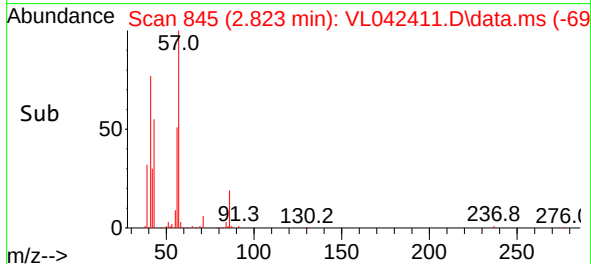
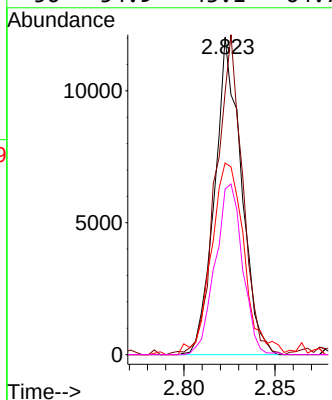
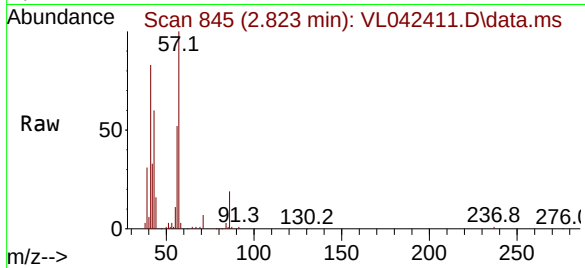
#26
Hexane
Concen: 0.579 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 57 Resp: 12264
Ion Ratio Lower Upper
57 100
41 100.5 77.9 116.9
43 76.1 208.4 312.6
56 54.9 43.1 64.7

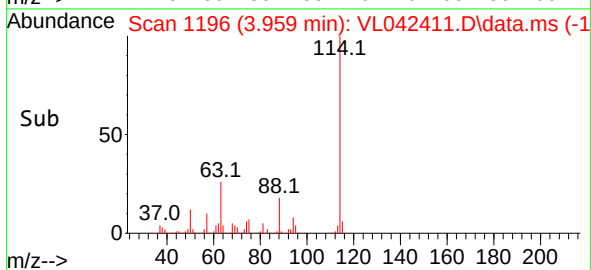
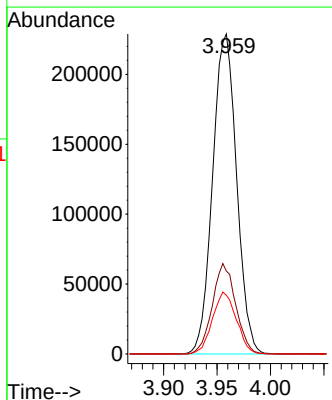
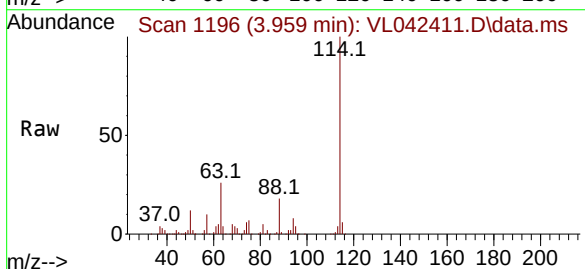
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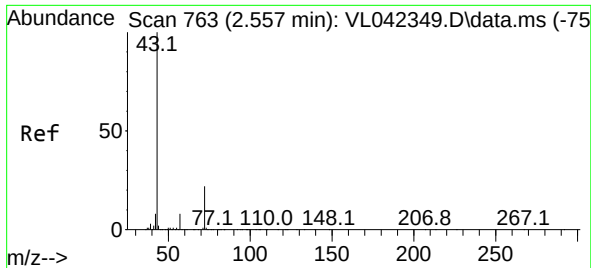
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

Tgt Ion:114 Resp: 357552
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.6
88 19.2 15.5 23.3





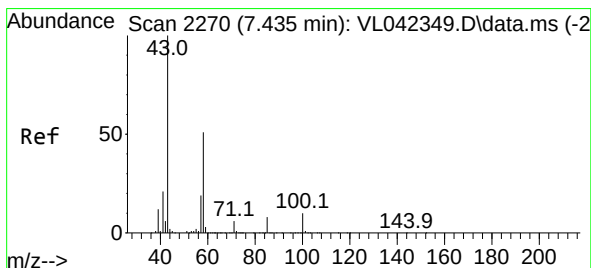
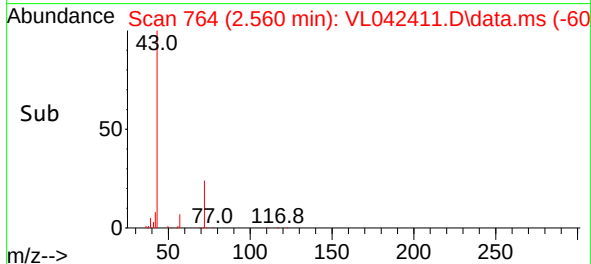
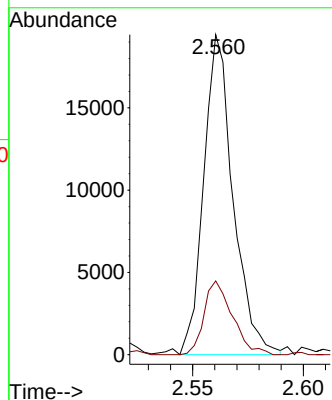
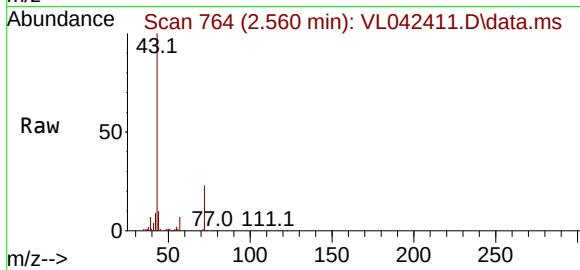
#34
2-Butanone
Concen: 0.634 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 43 Resp: 1791
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2

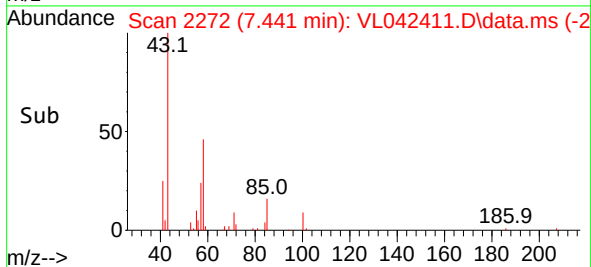
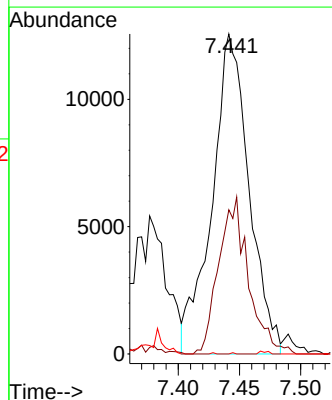
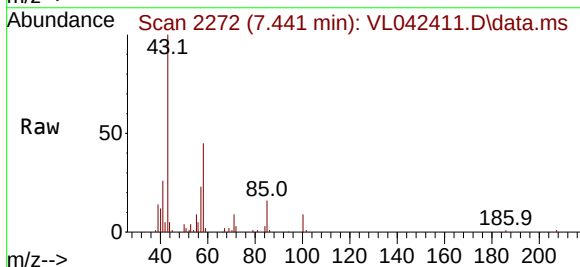
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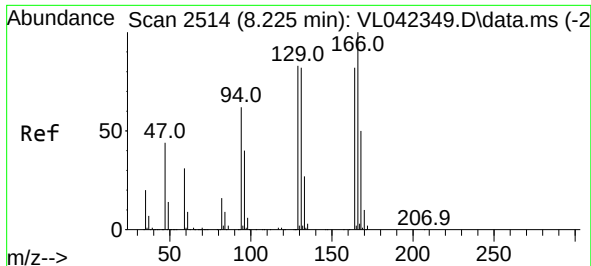
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#51
2-Hexanone
Concen: 0.628 ppbv m
RT: 7.441 min Scan# 2272
Delta R.T. 0.006 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

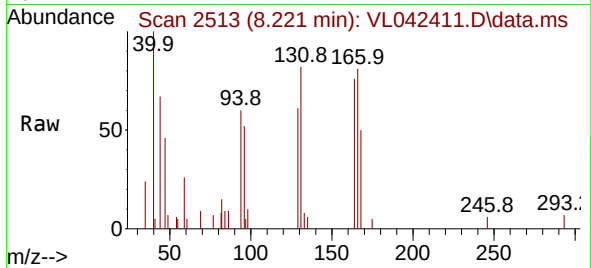
Tgt Ion: 43 Resp: 26456
Ion Ratio Lower Upper
43 100
58 39.3 40.2 60.4#
98 0.2 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.079 ppbv m
RT: 8.221 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

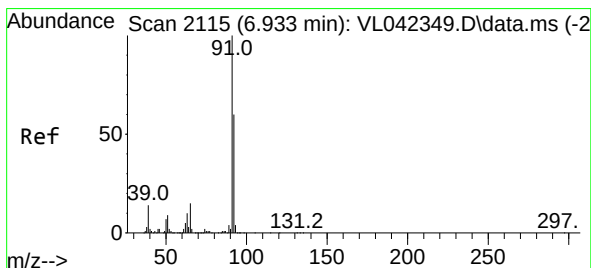
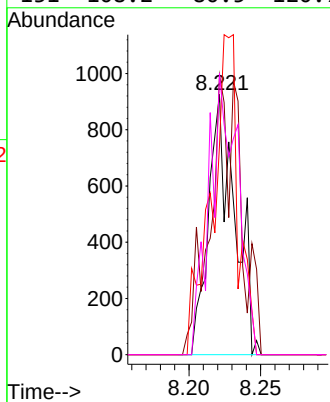
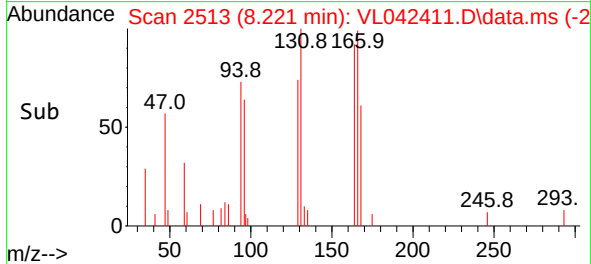
Instrument :
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ClientSampleId :
SV1DUP



Tgt Ion:164 Resp: 117
Ion Ratio Lower Upper
164 100
166 107.6 98.2 147.2
129 80.3 81.8 122.8
131 108.2 80.5 120.7

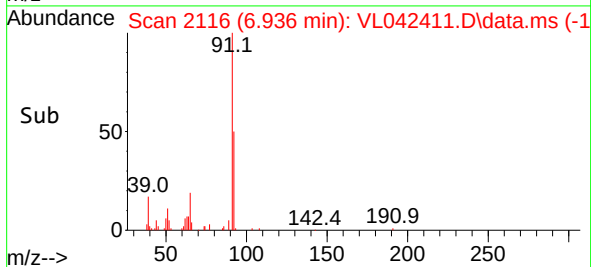
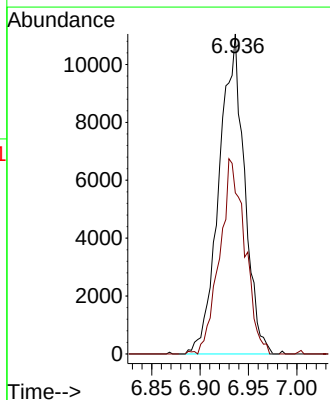
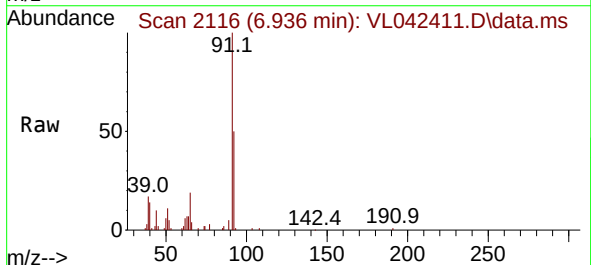
Manual Integrations
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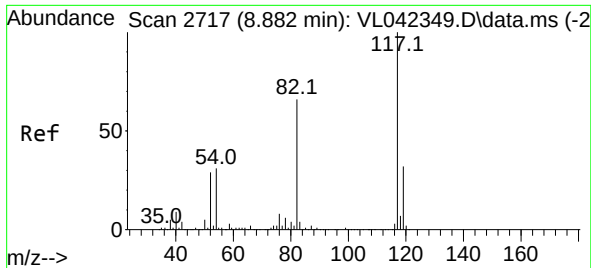
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#53
Toluene
Concen: 0.435 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

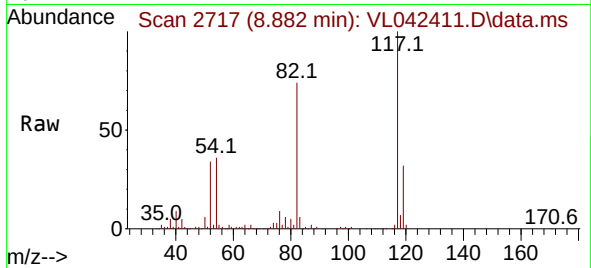
Tgt Ion: 91 Resp: 20124
Ion Ratio Lower Upper
91 100
92 60.6 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

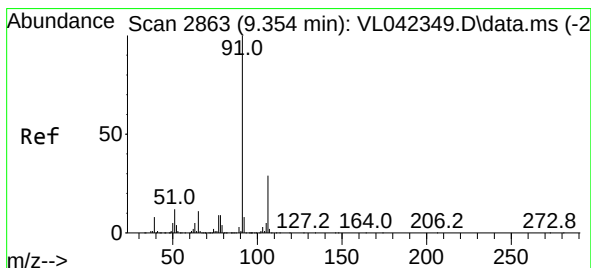
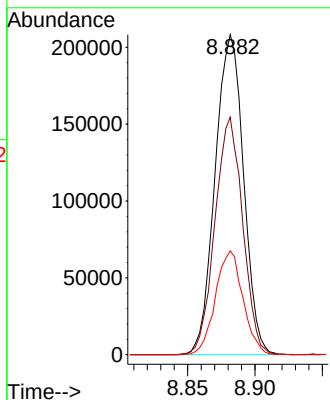
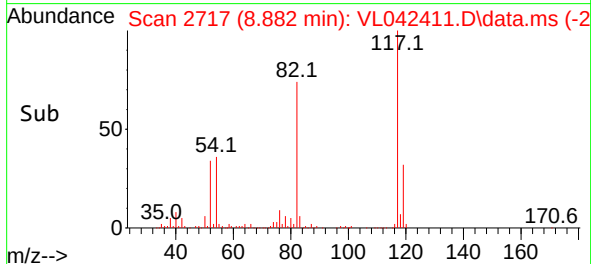
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:117 Resp: 30594
Ion Ratio Lower Upper
117 100
82 72.3 57.8 86.6
119 31.5 25.2 37.8

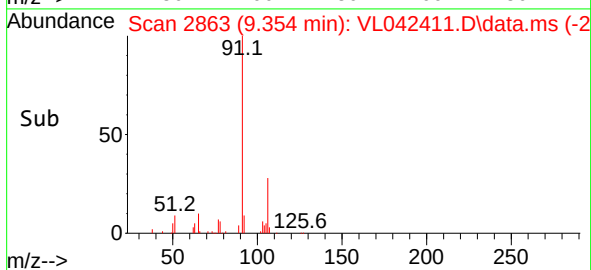
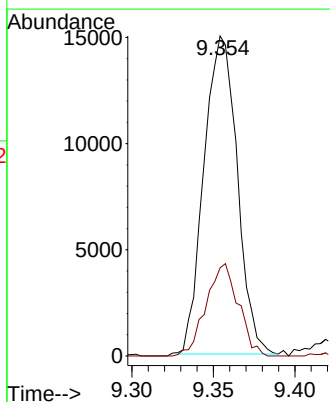
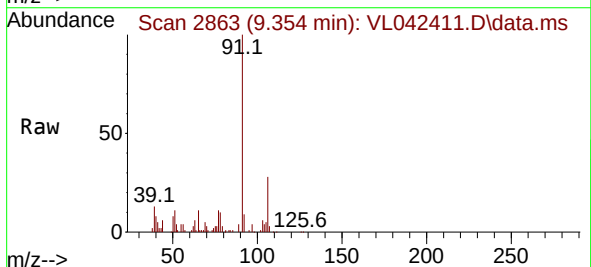
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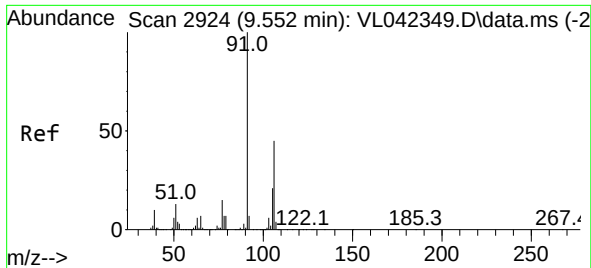
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#58
Ethyl Benzene
Concen: 0.352 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

Tgt Ion: 91 Resp: 21310
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





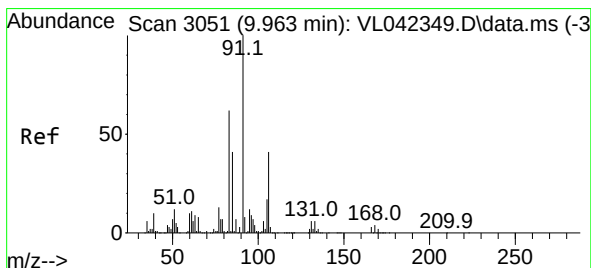
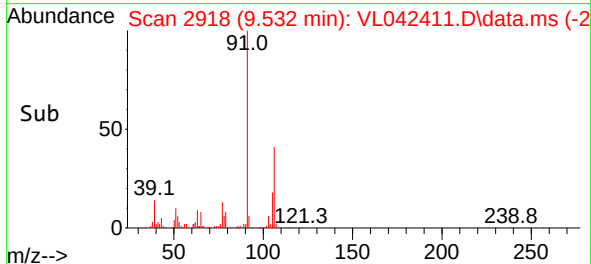
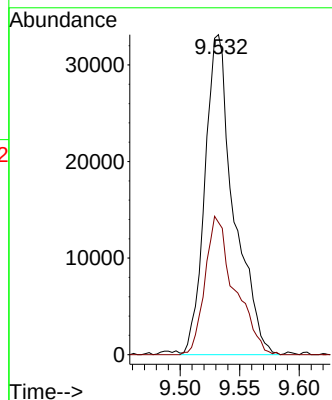
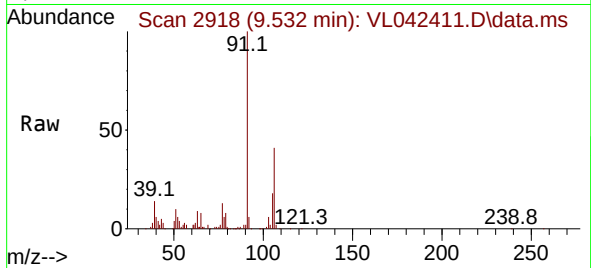
#59
m/p-Xylene
Concen: 1.149 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 91 Resp: 56104
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

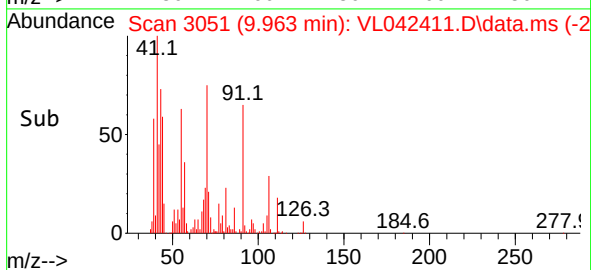
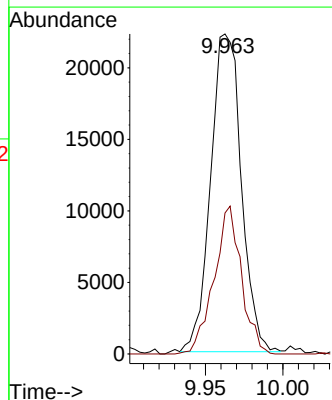
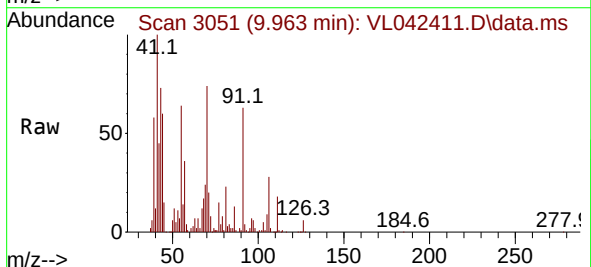
Manual Integrations
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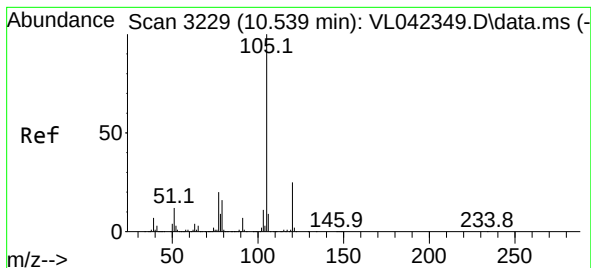
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#60
o-Xylene
Concen: 0.624 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

Tgt Ion: 91 Resp: 30668
Ion Ratio Lower Upper
91 100
106 41.4 21.1 63.4





#62

Isopropylbenzene

Concen: 0.206 ppbv

RT: 10.539 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042411.D

Acq: 21 Apr 2025 19:16

Instrument :

MSVOA_L

ClientSampleId :

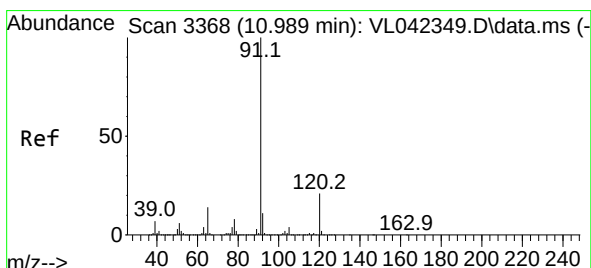
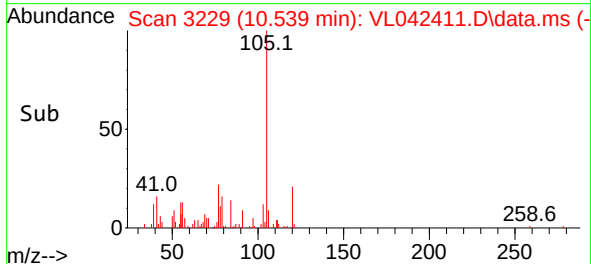
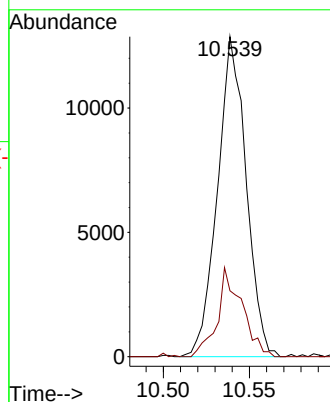
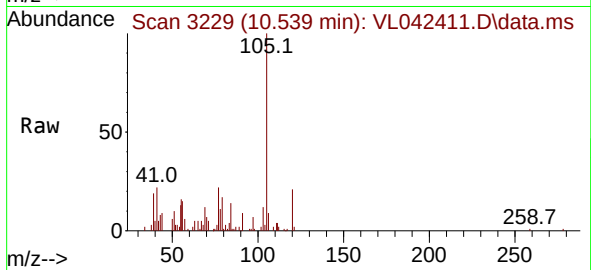
SV1DUP

Tgt Ion:105 Resp: 1490
 Ion Ratio Lower Upper
 105 100
 120 24.3 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#64

n-propylbenzene

Concen: 0.562 ppbv

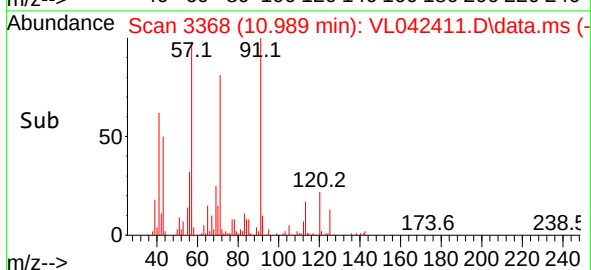
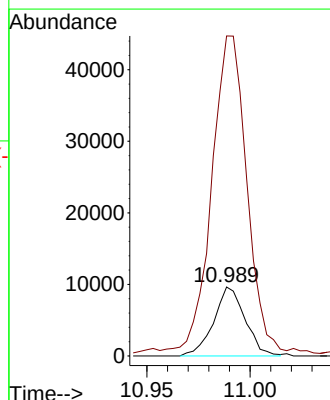
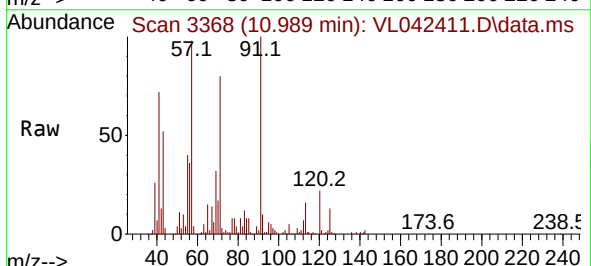
RT: 10.989 min Scan# 3368

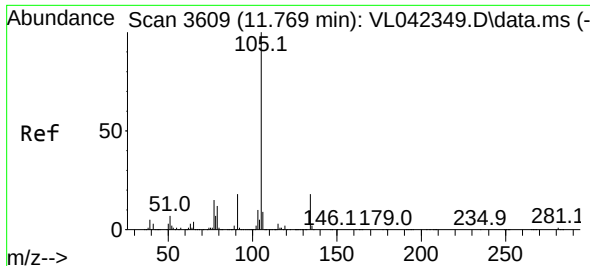
Delta R.T. 0.000 min

Lab File: VL042411.D

Acq: 21 Apr 2025 19:16

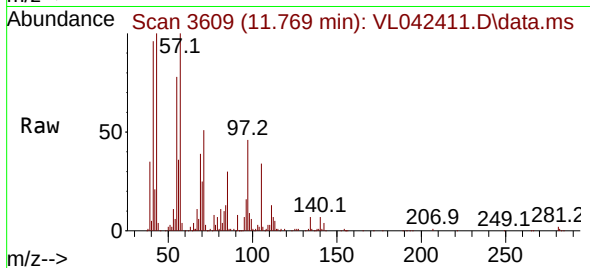
Tgt Ion:120 Resp: 10199
 Ion Ratio Lower Upper
 120 100
 91 523.2 392.4 588.6





#67
 sec-Butylbenzene
 Concen: 0.334 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042411.D
 Acq: 21 Apr 2025 19:16

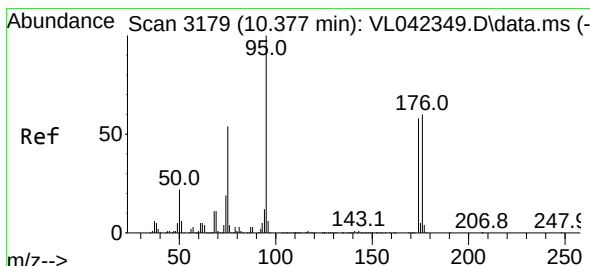
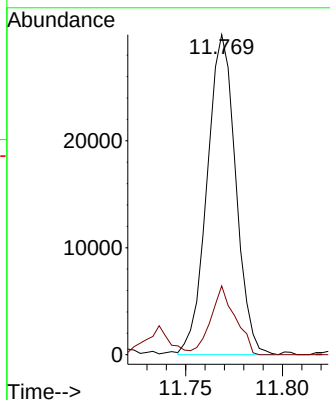
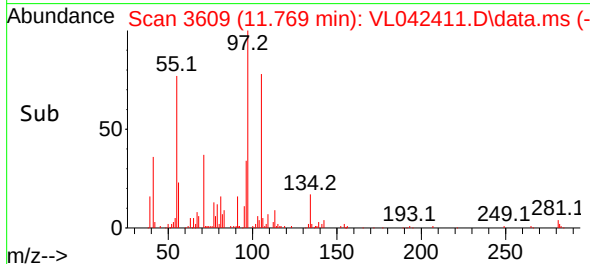
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP



Tgt Ion: 105 Resp: 30792
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.6 21.8

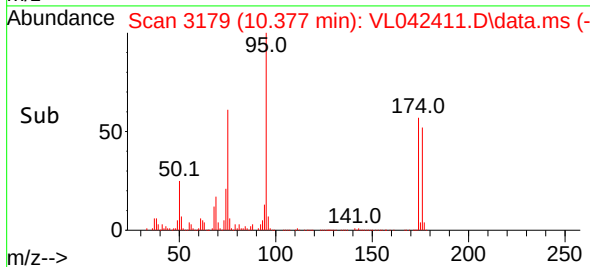
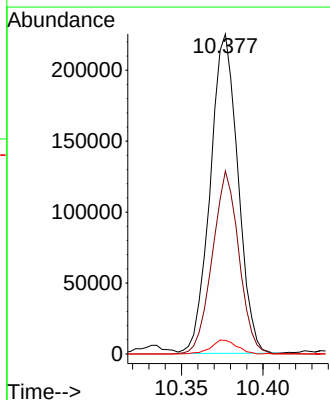
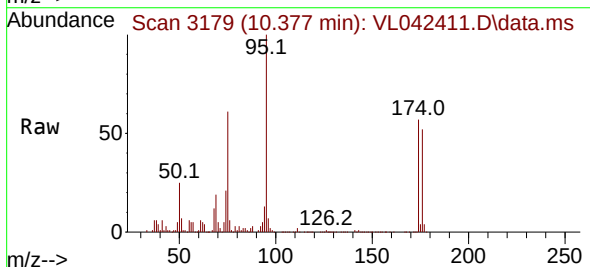
Manual Integrations
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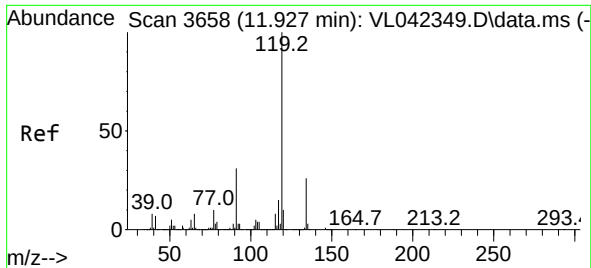
Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.577 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042411.D
 Acq: 21 Apr 2025 19:16

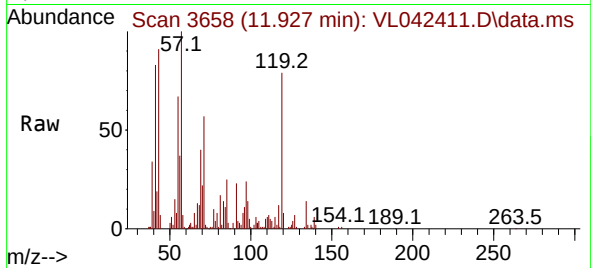
Tgt Ion: 95 Resp: 265917
 Ion Ratio Lower Upper
 95 100
 174 54.8 48.5 72.7
 175 4.1 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.195 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16

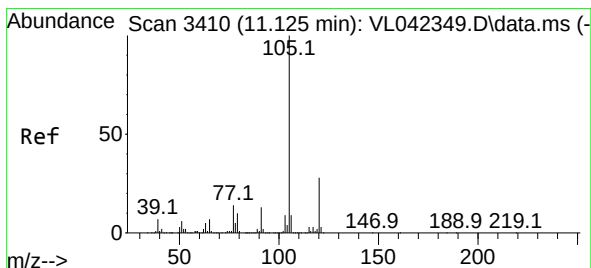
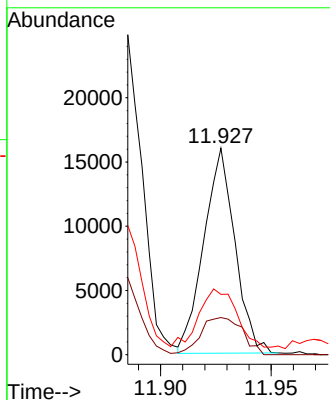
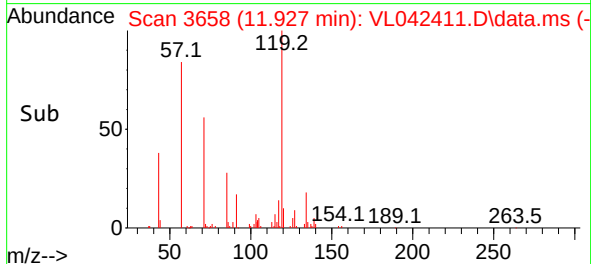
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



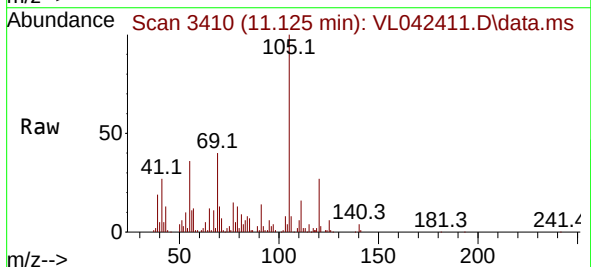
Tgt Ion:119 Resp: 15604
Ion Ratio Lower Upper
119 100
134 24.3 20.0 30.0
91 33.2 24.4 36.6

Manual Integrations
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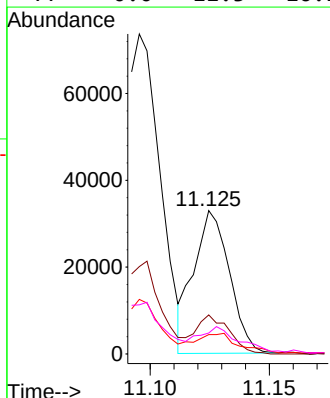
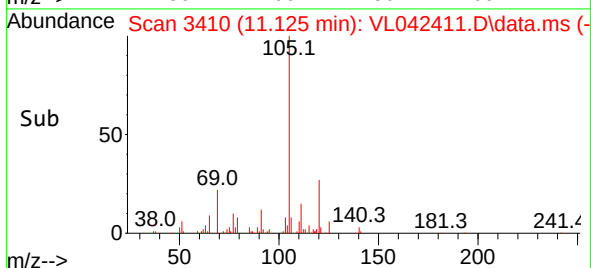
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

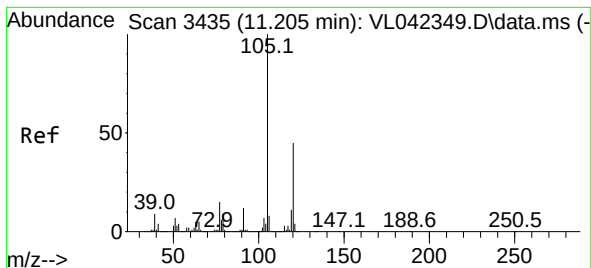


#72
4-Ethyltoluene
Concen: 0.572 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042411.D
Acq: 21 Apr 2025 19:16



Tgt Ion:105 Resp: 34385
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.772 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042411.D

Acq: 21 Apr 2025 19:16

Instrument :

MSVOA_L

ClientSampleId :

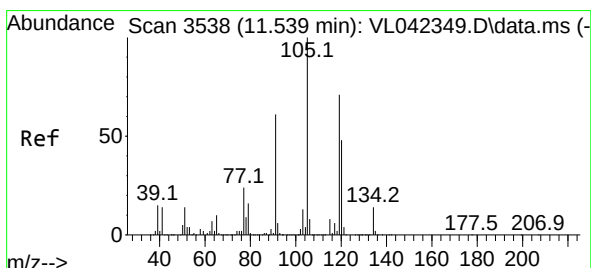
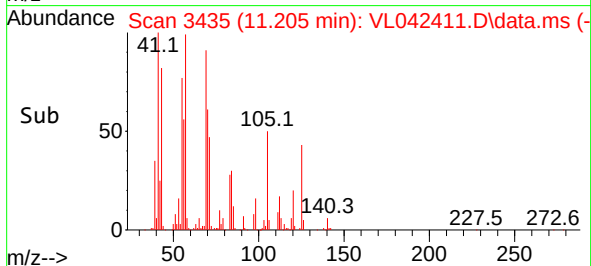
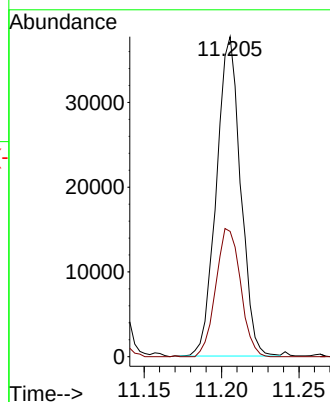
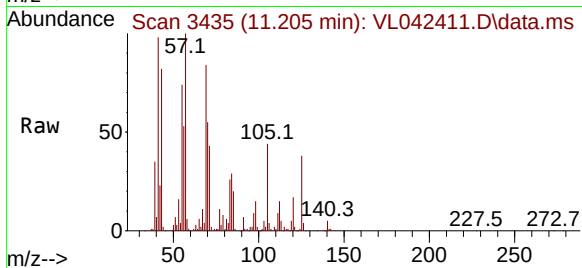
SV1DUP

Tgt Ion:105 Resp: 40998
 Ion Ratio Lower Upper
 105 100
 120 39.2 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.714 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042411.D

Acq: 21 Apr 2025 19:16

Tgt Ion:105 Resp: 106231
 Ion Ratio Lower Upper
 105 100
 120 38.9 38.1 57.1
 91 12.6 48.8 73.2#
 77 13.5 19.0 28.4#

