

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043229.D
 Acq On : 19 Nov 2025 00:13
 Operator : SY/MD
 Sample : Q3651-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:42:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	91882	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	238827	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	187305	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	142715	10.395	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	2928	0.541	ppbv #	1
10) Heptane	4.978	43	4124m	0.256	ppbv	
11) Trichlorofluoromethane	1.877	101	1745	0.139	ppbv #	83
13) Ethanol	1.722	45	4361m	2.292	ppbv	
15) Acetone	1.835	43	26258	2.057	ppbv	99
19) Isopropyl Alcohol	1.887	45	15499	2.149	ppbv	94
20) Methylene Chloride	2.062	84	111175	31.222	ppbv	96
26) Hexane	2.826	57	3488	0.289	ppbv #	14
30) Cyclohexane	3.855	84	2591m	0.256	ppbv	
34) 2-Butanone	2.557	43	56206	3.334	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	6686m	0.170	ppbv	
53) Toluene	6.926	91	194223m	7.171	ppbv	
58) Ethyl Benzene	9.354	91	8676	0.241	ppbv #	86
59) m/p-Xylene	9.526	91	24225m	0.838	ppbv	
60) o-Xylene	9.962	91	5207	0.180	ppbv	100

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

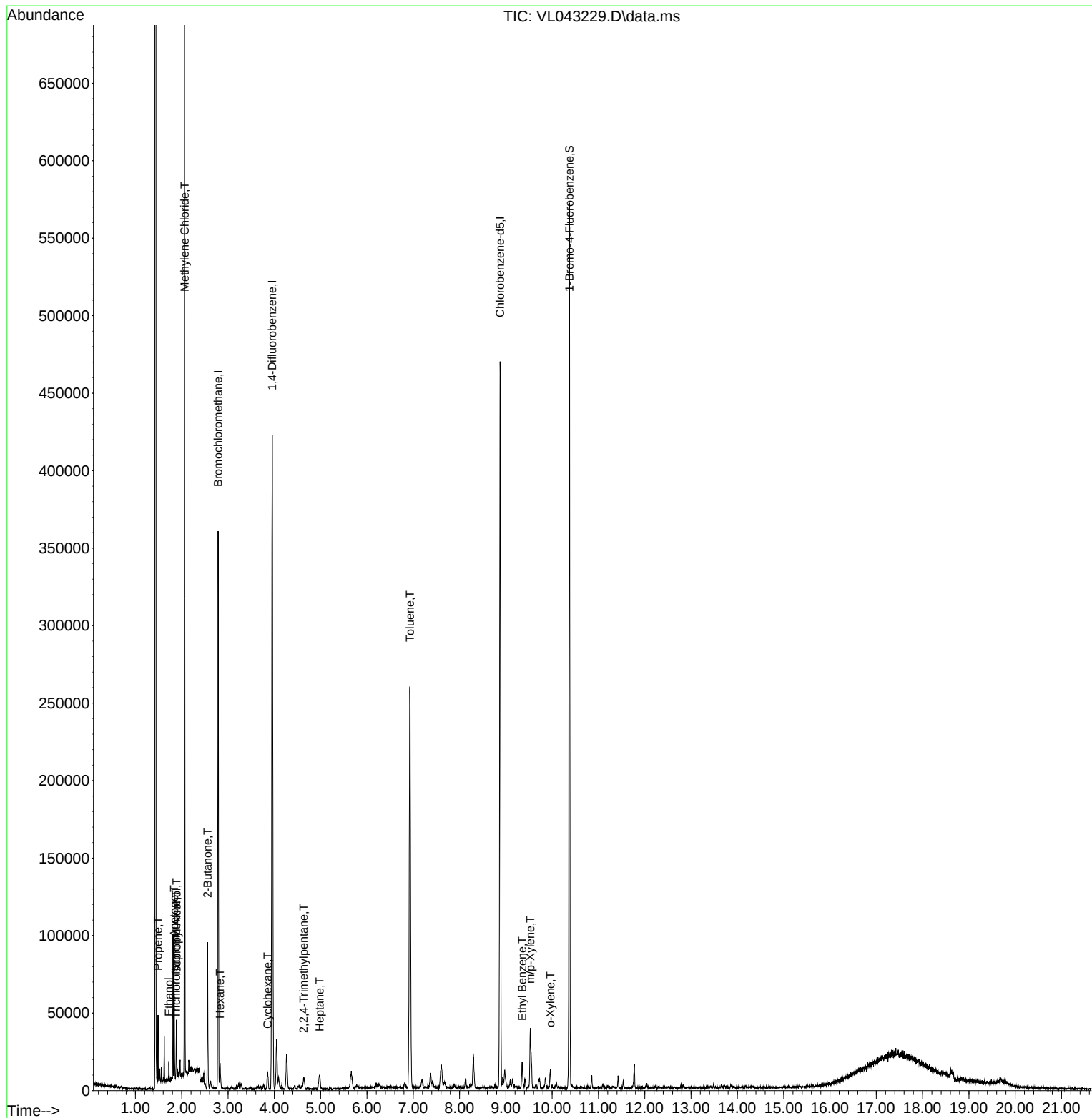
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043229.D
Acq On : 19 Nov 2025 00:13
Operator : SY/MD
Sample : Q3651-04DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

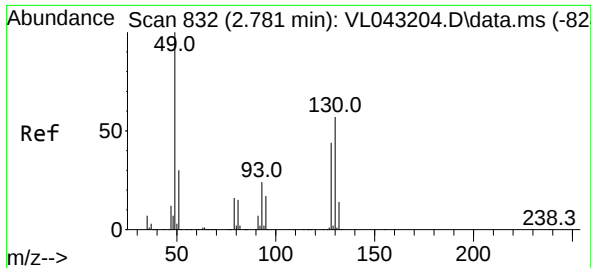
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

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Supervised By :Mahesh Dadoda 11/19/2025

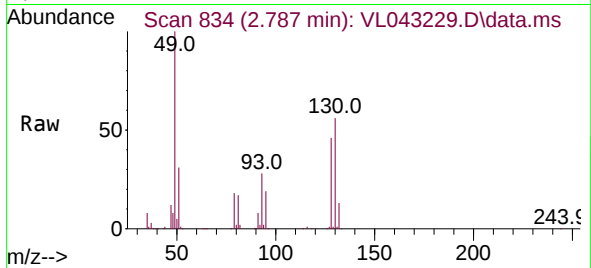
Quant Time: Nov 19 01:42:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

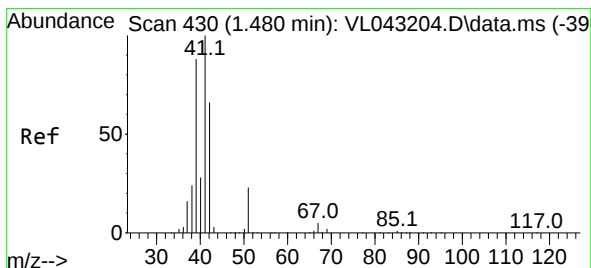
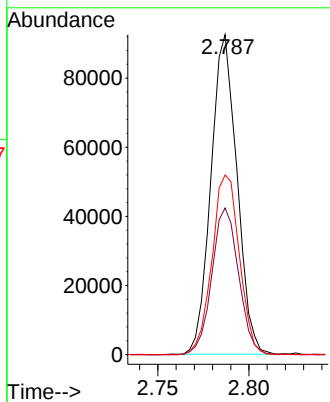
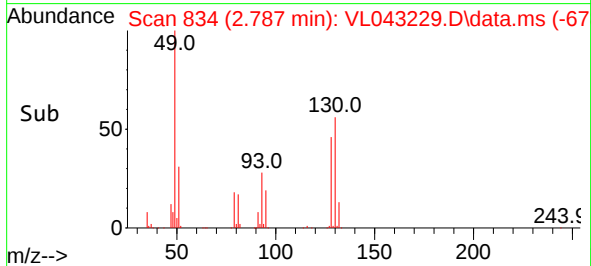
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 49 Resp: 91882
Ion Ratio Lower Upper
49 100
128 47.1 23.0 69.0
130 59.2 29.9 89.7

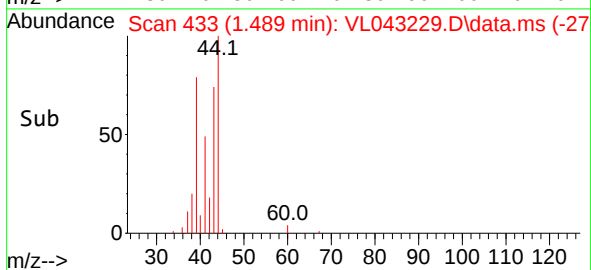
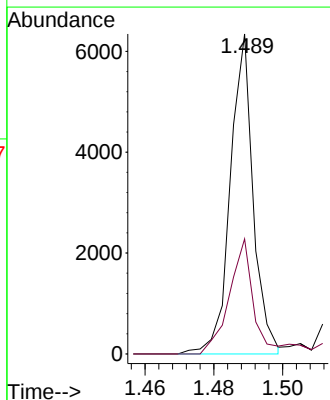
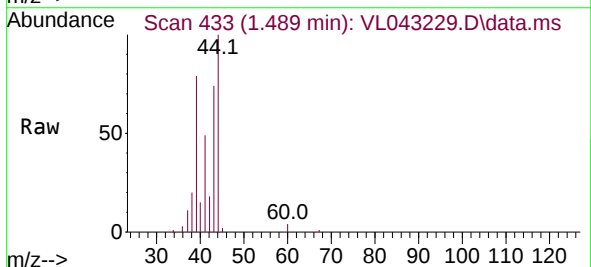
Manual Integrations
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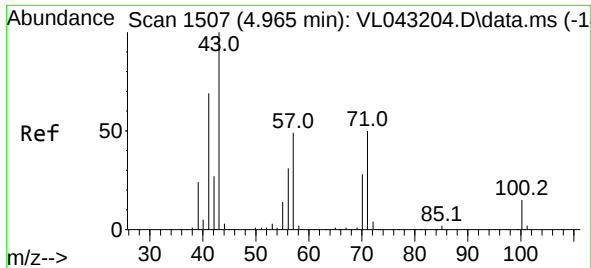
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#9
Propene
Concen: 0.541 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

Tgt Ion: 41 Resp: 2928
Ion Ratio Lower Upper
41 100
42 41.7 3.7 5.5#





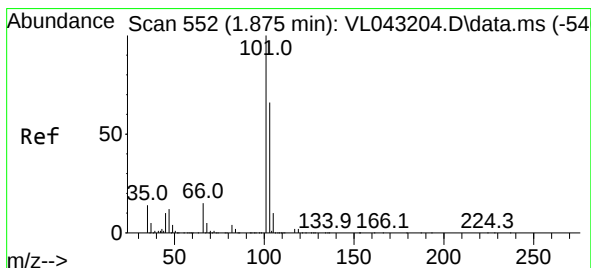
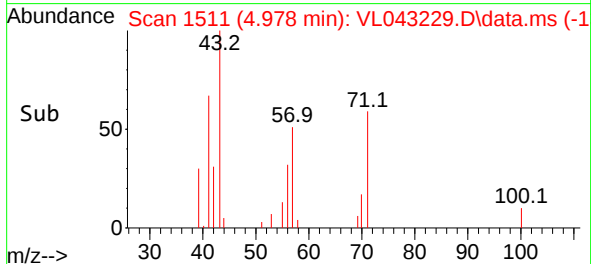
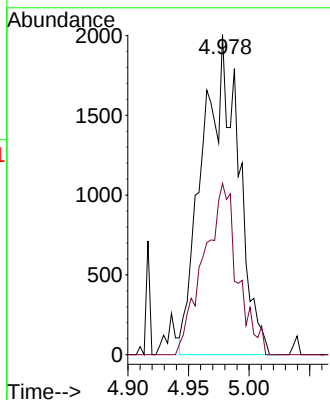
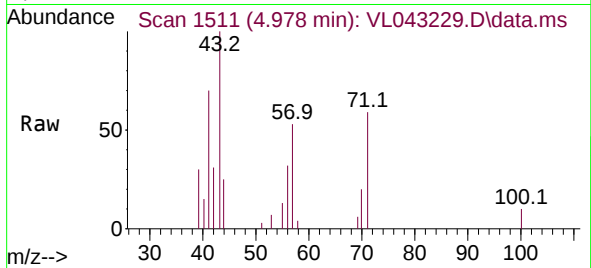
#10
Heptane
Concen: 0.256 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 43 Resp: 4124
Ion Ratio Lower Upper
43 100
57 50.3 39.7 59.5

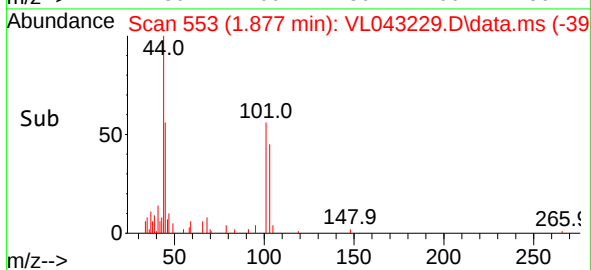
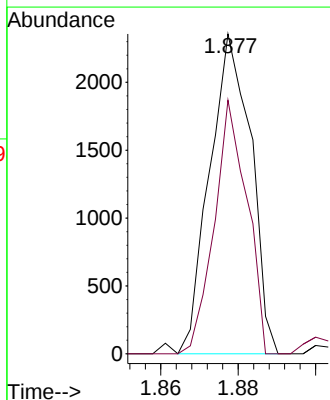
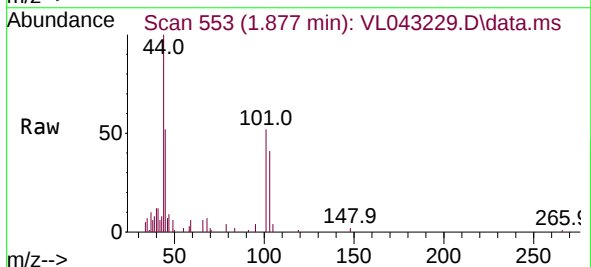
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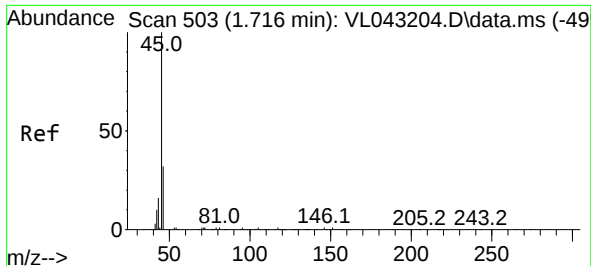
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#11
Trichlorofluoromethane
Concen: 0.139 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

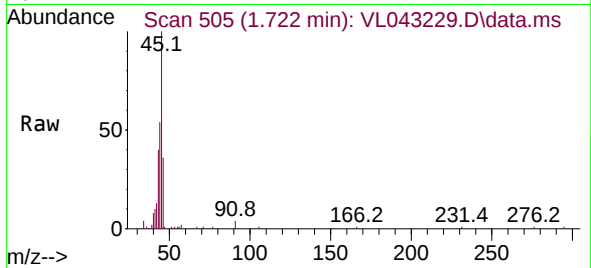
Tgt Ion:101 Resp: 1745
Ion Ratio Lower Upper
101 100
103 79.3 52.6 79.0#





#13
Ethanol
Concen: 2.292 ppbv m
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

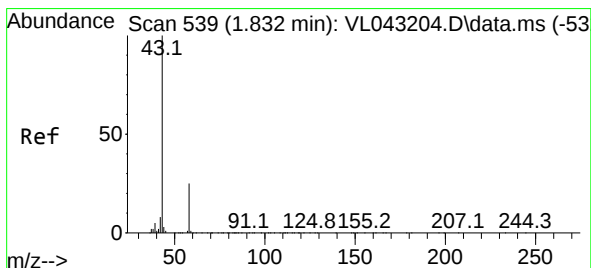
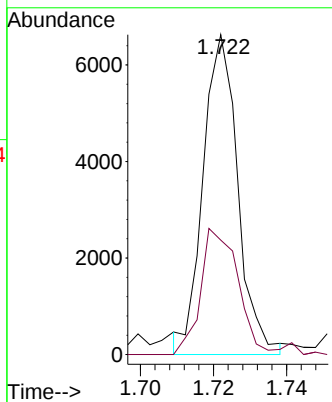
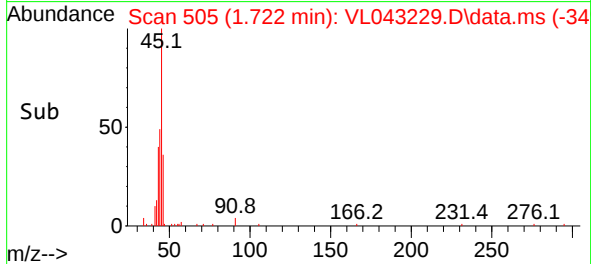
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 45 Resp: 436
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

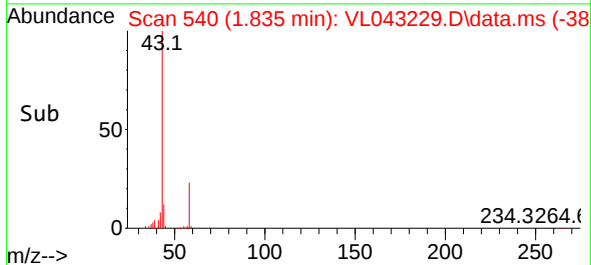
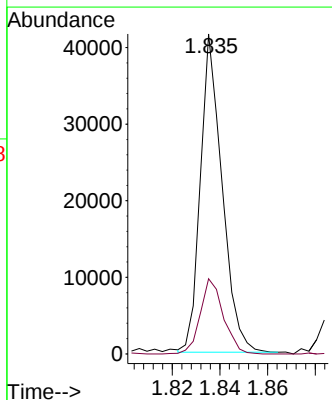
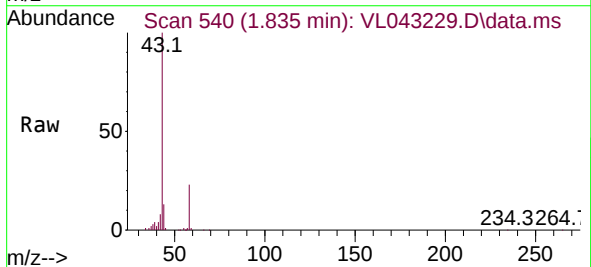
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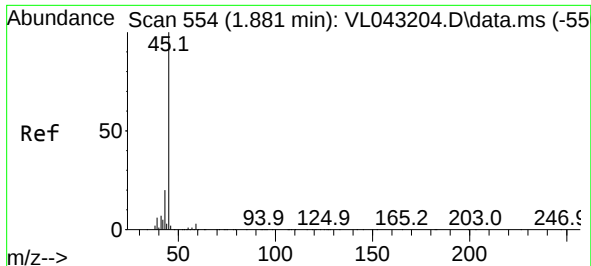
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 2.057 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

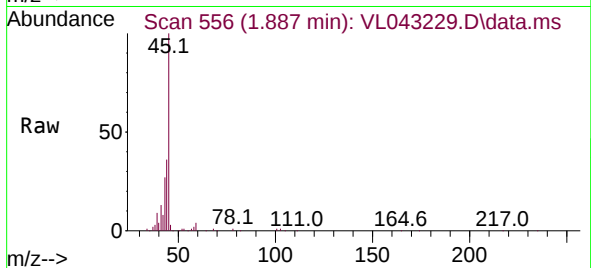
Tgt Ion: 43 Resp: 26258
Ion Ratio Lower Upper
43 100
58 25.3 20.7 31.1





#19
Isopropyl Alcohol
Concen: 2.149 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

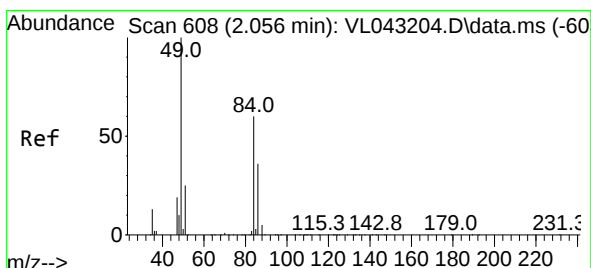
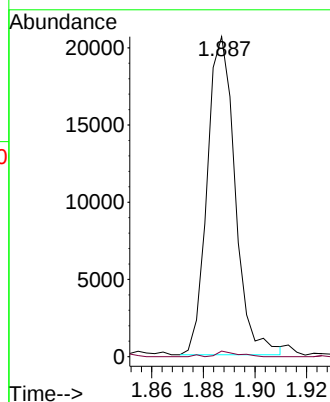
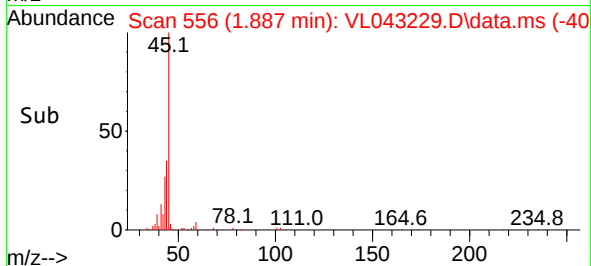
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



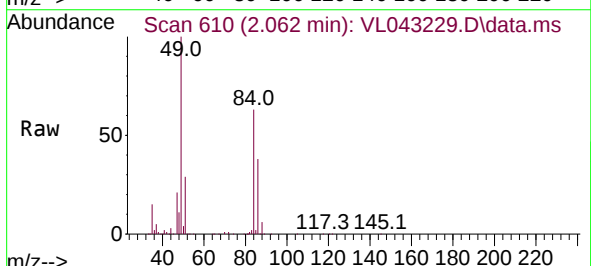
Tgt Ion: 45 Resp: 15499
Ion Ratio Lower Upper
45 100
58 42.8 31.3 46.9

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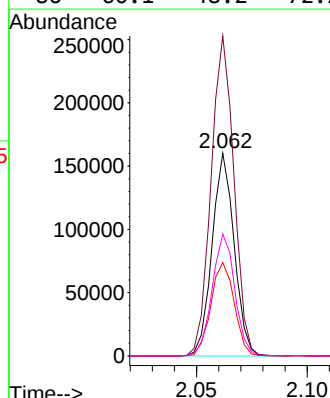
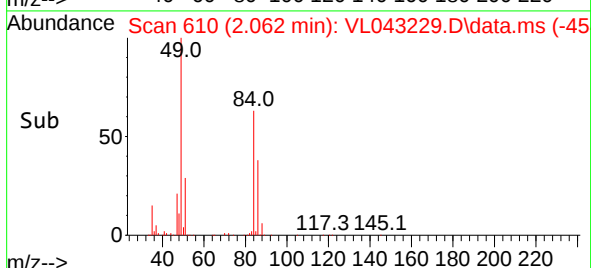
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

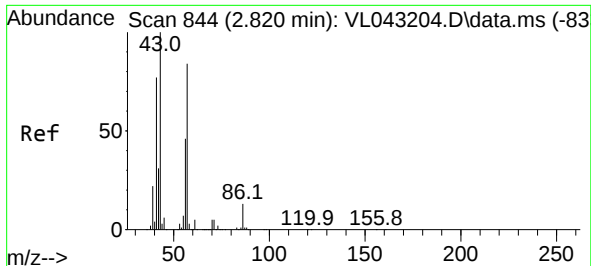


#20
Methylene Chloride
Concen: 31.222 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13



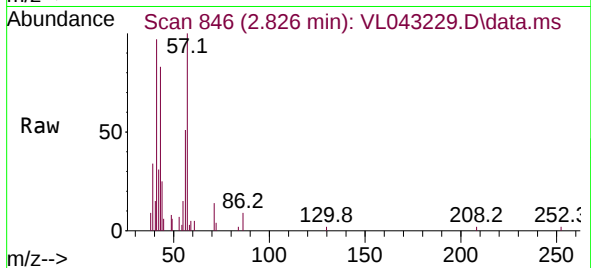
Tgt Ion: 84 Resp: 111175
Ion Ratio Lower Upper
84 100
49 158.0 132.9 199.3
51 46.1 34.8 52.2
86 60.1 48.2 72.2





#26
Hexane
Concen: 0.289 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

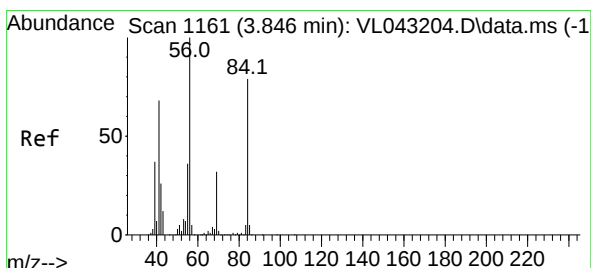
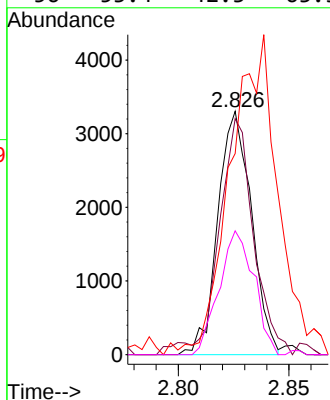
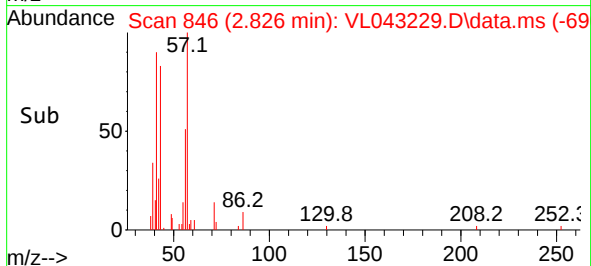
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 57 Resp: 3488
Ion Ratio Lower Upper
57 100
41 102.3 74.6 111.8
43 0.0 179.0 268.4
56 53.4 42.3 63.5

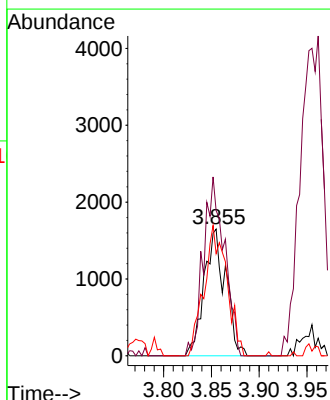
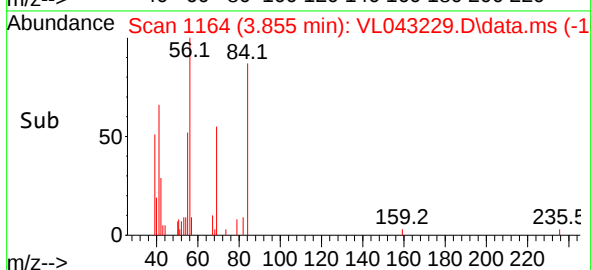
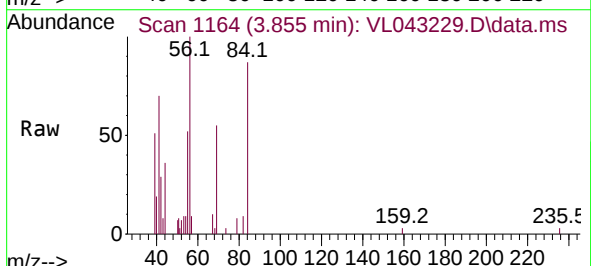
Manual Integrations
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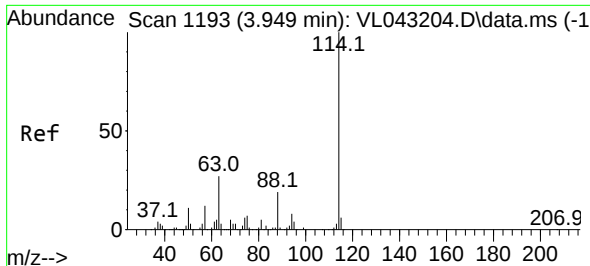
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 0.256 ppbv m
RT: 3.855 min Scan# 1164
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

Tgt Ion: 84 Resp: 2591
Ion Ratio Lower Upper
84 100
56 137.1 104.7 157.1
41 108.1 69.0 103.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

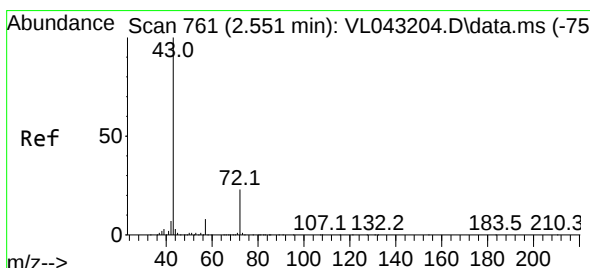
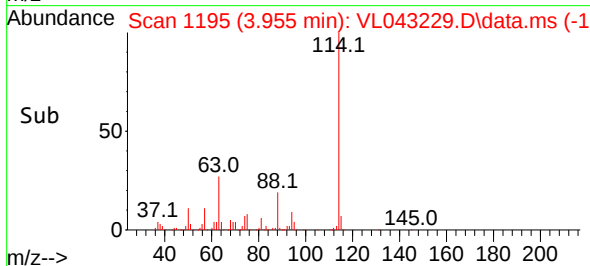
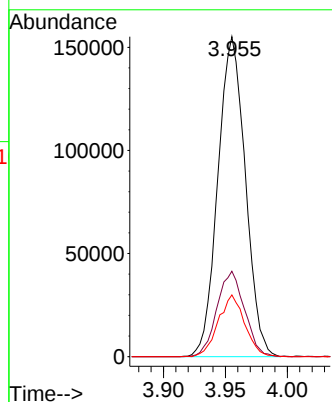
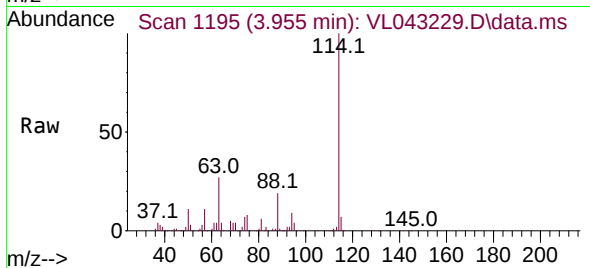
Tgt Ion:114 Resp: 23882

Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.0	31.6
88	18.6	14.9	22.3

Manual Integrations

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Supervised By :Mahesh Dadoda 11/19/2025



#34

2-Butanone

Concen: 3.334 ppbv

RT: 2.557 min Scan# 763

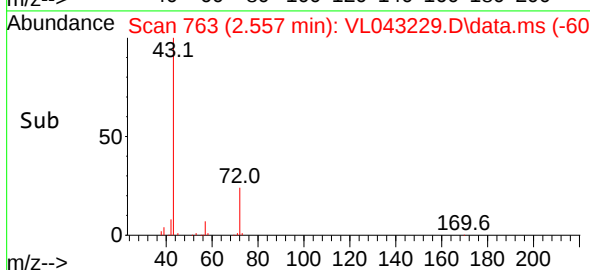
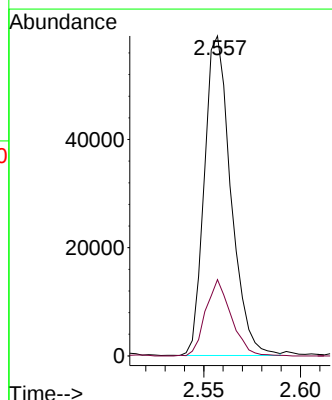
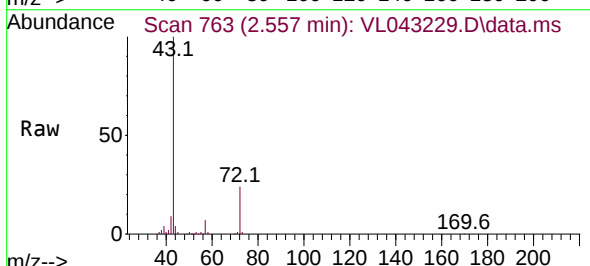
Delta R.T. 0.006 min

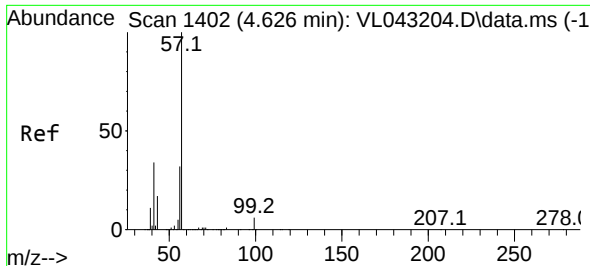
Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

Tgt Ion: 43 Resp: 56206

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.1	27.1





#44

2,2,4-Trimethylpentane

Concen: 0.170 ppbv m

RT: 4.635 min Scan# 1402

Delta R.T. 0.009 min

Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

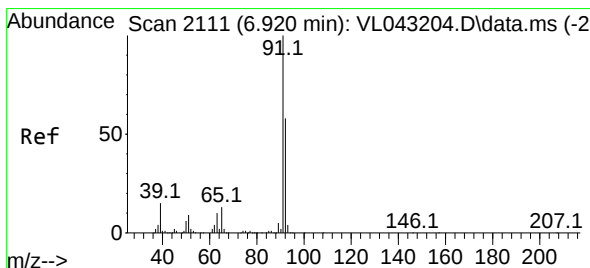
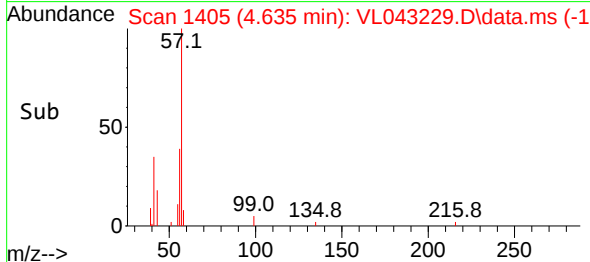
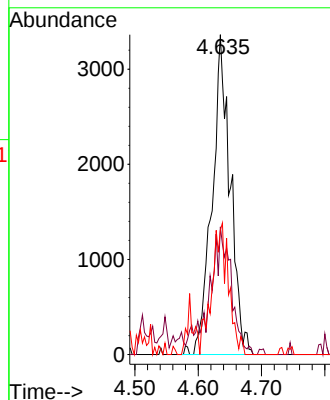
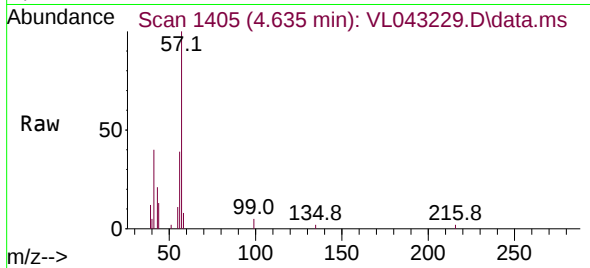
Tgt Ion:	57	Resp:	6686
Ion	Ratio	Lower	Upper
57	100		
41	48.5	28.0	42.0
56	45.0	25.6	38.4

Manual Integrations

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Supervised By :Mahesh Dadoda 11/19/2025



#53

Toluene

Concen: 7.171 ppbv m

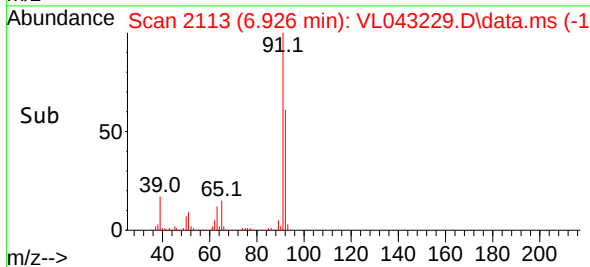
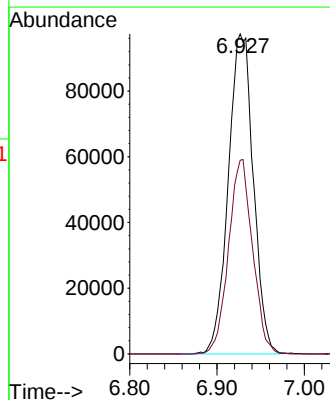
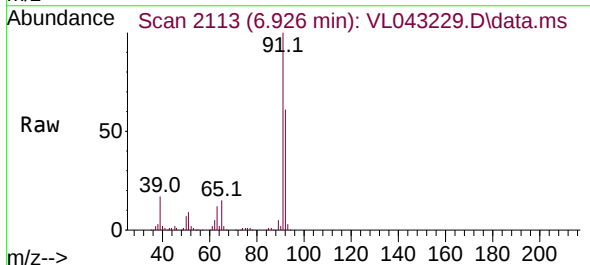
RT: 6.926 min Scan# 2113

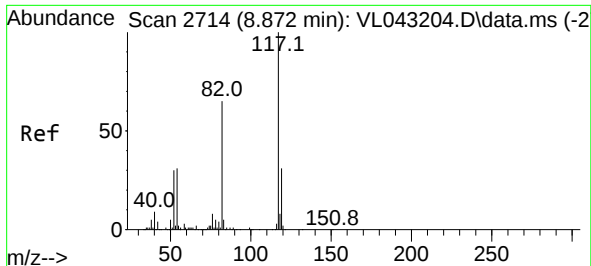
Delta R.T. 0.006 min

Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

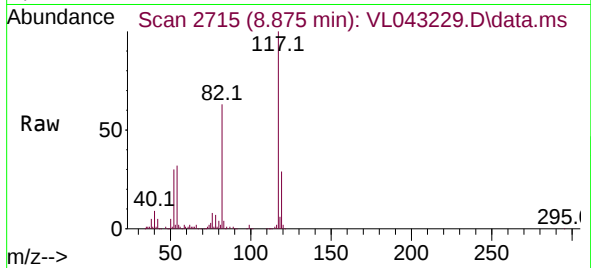
Tgt Ion:	91	Resp:	194223
Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.4	71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

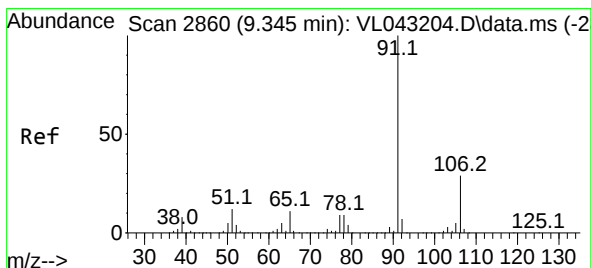
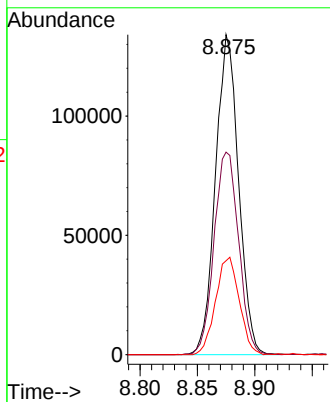
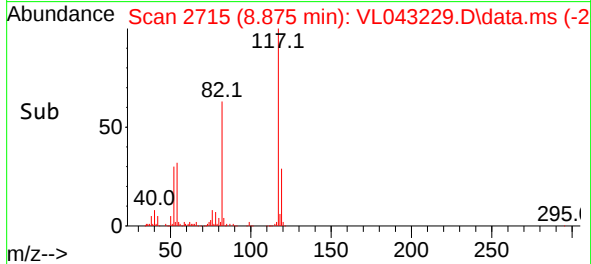
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion:117 Resp: 187305
Ion Ratio Lower Upper
117 100
82 67.4 56.1 84.1
119 31.4 25.0 37.6

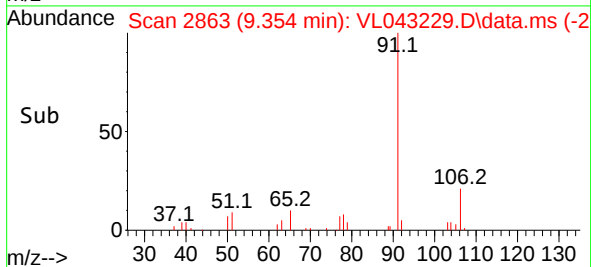
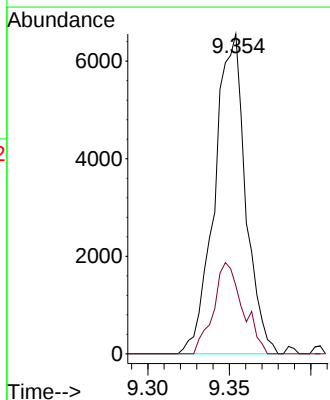
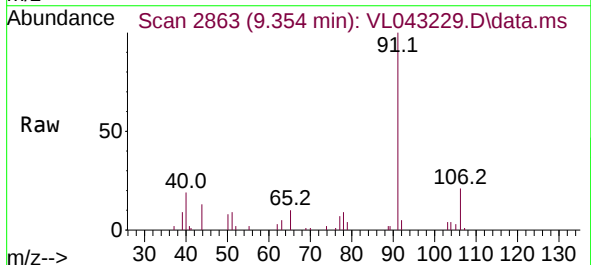
Manual Integrations
APPROVED

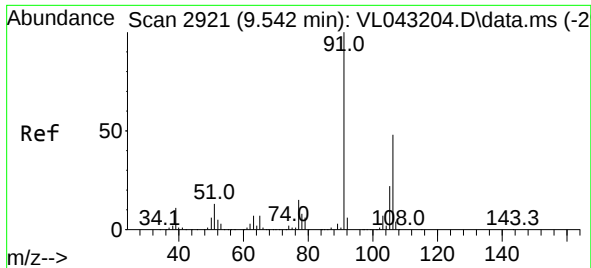
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.241 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.009 min
Lab File: VL043229.D
Acq: 19 Nov 2025 00:13

Tgt Ion: 91 Resp: 8676
Ion Ratio Lower Upper
91 100
106 21.3 22.8 34.2#





#59

m/p-Xylene

Concen: 0.838 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.017 min

Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

Instrument :

MSVOA_L

ClientSampleId :

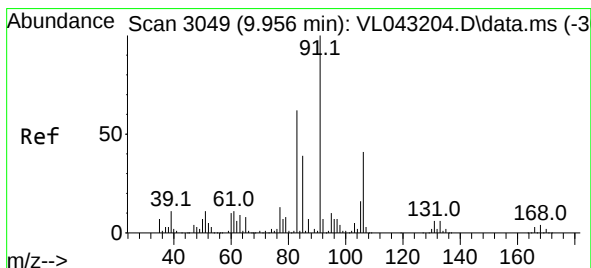
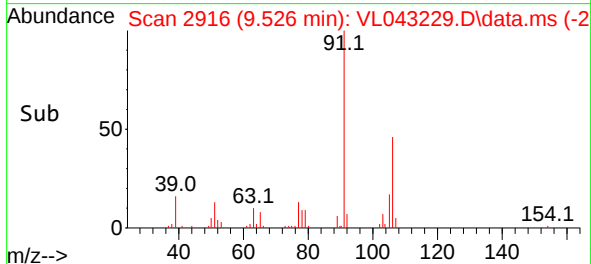
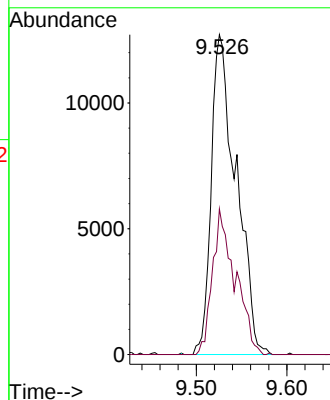
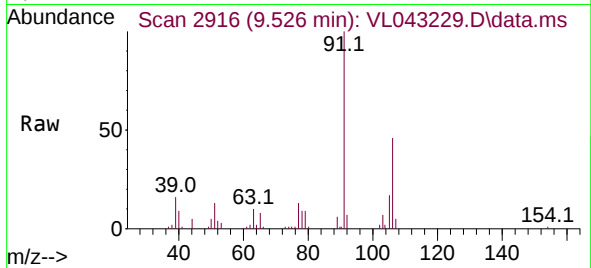
IA2DL

Tgt Ion: 91 Resp: 24225
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#60

o-Xylene

Concen: 0.180 ppbv

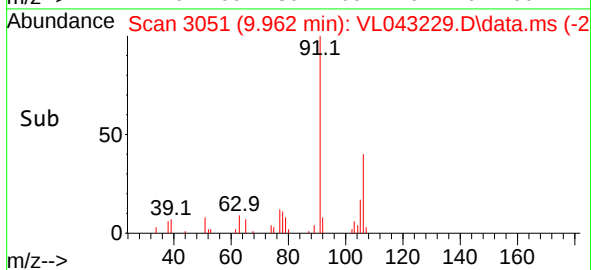
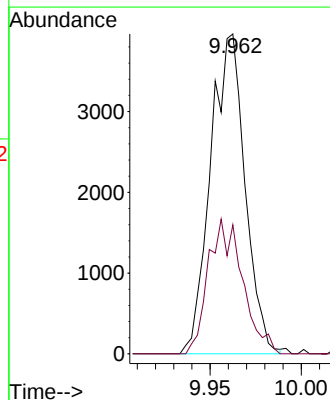
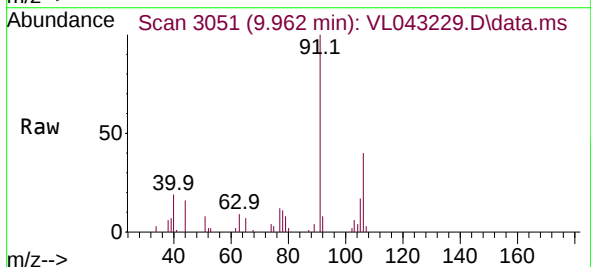
RT: 9.962 min Scan# 3051

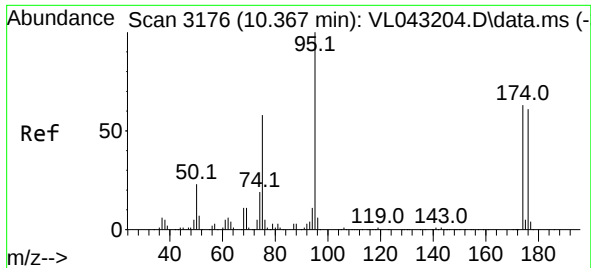
Delta R.T. 0.006 min

Lab File: VL043229.D

Acq: 19 Nov 2025 00:13

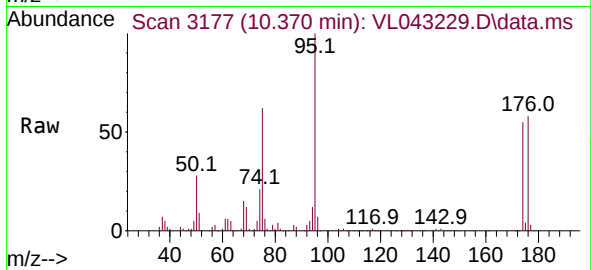
Tgt Ion: 91 Resp: 5207
 Ion Ratio Lower Upper
 91 100
 106 41.8 20.9 62.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.395 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043229.D
 Acq: 19 Nov 2025 00:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL



Tgt Ion: 95 Resp: 142715
 Ion Ratio Lower Upper
 95 100
 174 57.5 50.2 75.2
 175 4.5 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

