

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043222.D
 Acq On : 18 Nov 2025 20:29
 Operator : SY/MD
 Sample : Q3651-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: Nov 19 01:39:46 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	2.790	49	97422	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	255477	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	197025	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	147087	10.185	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	1653	0.120	ppbv	93
9) Propene	1.483	41	31623	5.511	ppbv #	1
10) Heptane	4.978	43	16286m	0.954	ppbv	
15) Acetone	1.835	43	387646	28.640	ppbv	98
17) tert-Butyl alcohol	2.043	59	10185m	0.573	ppbv	
19) Isopropyl Alcohol	1.884	45	262922	34.376	ppbv	96
20) Methylene Chloride	2.068	84	591192	160.005	ppbv	91
25) Ethyl Acetate	2.836	43	215424	7.379	ppbv	98
26) Hexane	2.832	57	66477m	5.194	ppbv	
30) Cyclohexane	3.862	84	3485	0.325	ppbv #	82
34) 2-Butanone	2.560	43	8685	0.482	ppbv	99
36) Benzene	3.664	78	6086	0.249	ppbv #	92
40) 1,4-Dioxane	4.587	88	3574m	0.888	ppbv	
41) Tetrahydrofuran	3.062	42	3376m	0.339	ppbv	
52) Tetrachloroethene	8.221	164	399m	0.044	ppbv	
53) Toluene	6.930	91	88387	3.051	ppbv	97
58) Ethyl Benzene	9.351	91	11657	0.307	ppbv #	82
59) m/p-Xylene	9.529	91	25042	0.824	ppbv	100
60) o-Xylene	9.956	91	12246	0.403	ppbv	93
73) 1,3,5-Trimethylbenzene	11.199	105	4030	0.130	ppbv	99
74) 1,2,4-Trimethylbenzene	11.529	105	7787	0.230	ppbv #	48

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

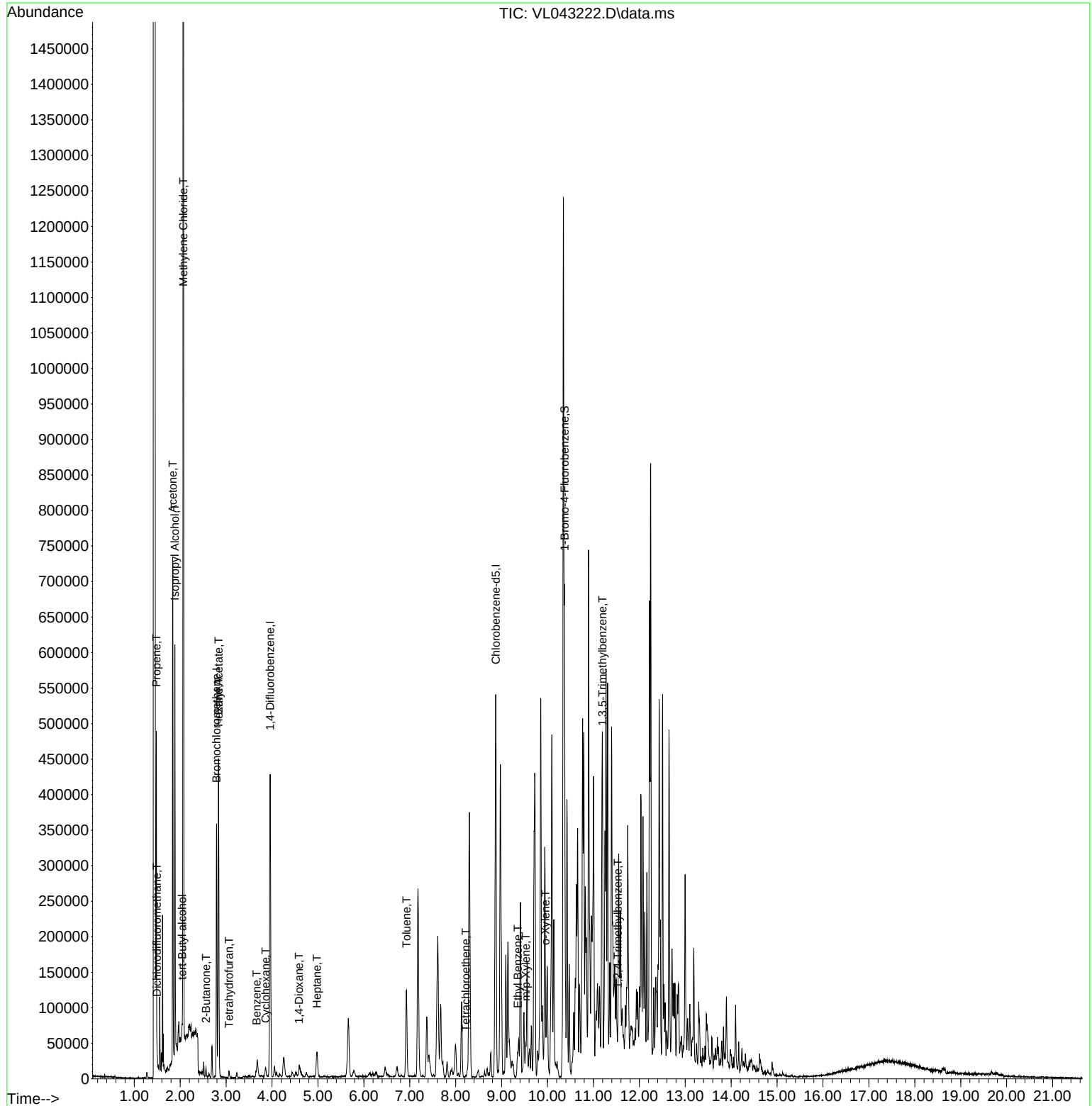
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Data File : VL043222.D
Acq On : 18 Nov 2025 20:29
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

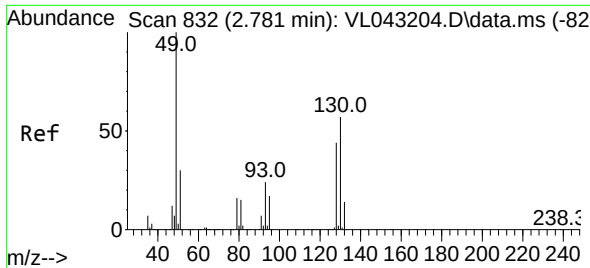
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 19 01:39:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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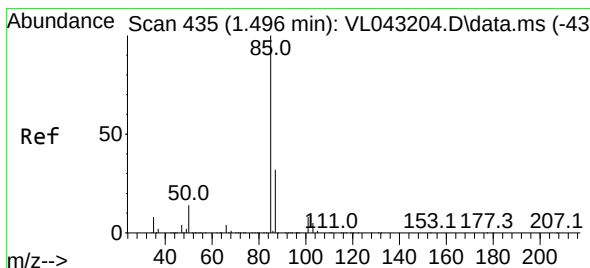
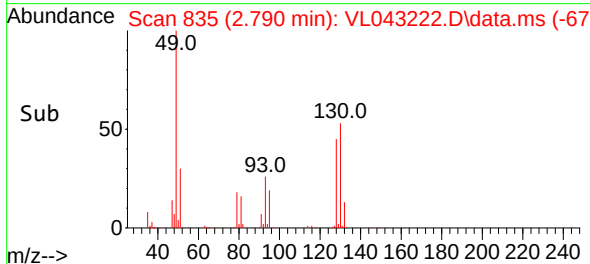
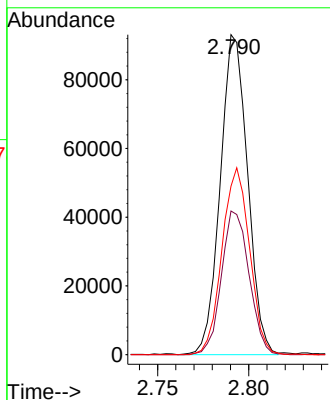
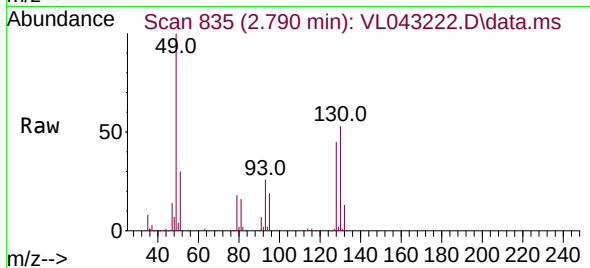
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 832
Delta R.T. 0.009 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 97422
Ion Ratio Lower Upper
49 100
128 45.2 23.0 69.0
130 58.8 29.9 89.7

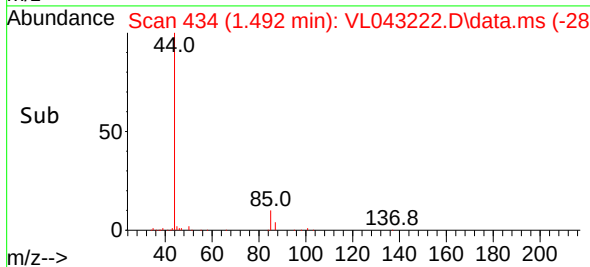
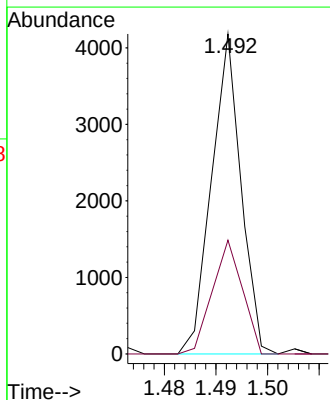
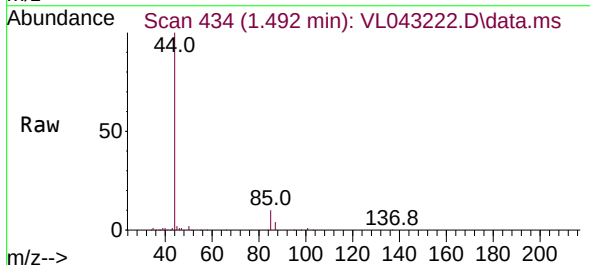
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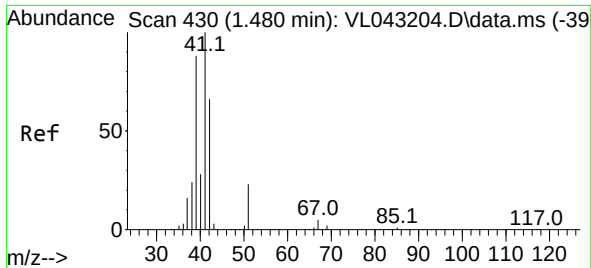
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 85 Resp: 1653
Ion Ratio Lower Upper
85 100
87 35.5 25.4 38.2





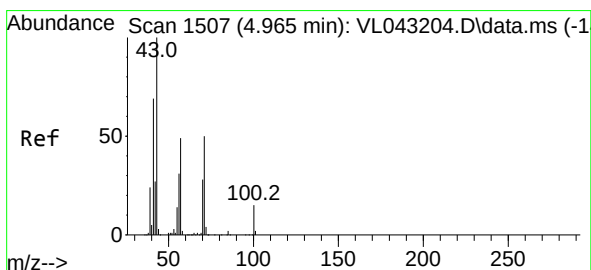
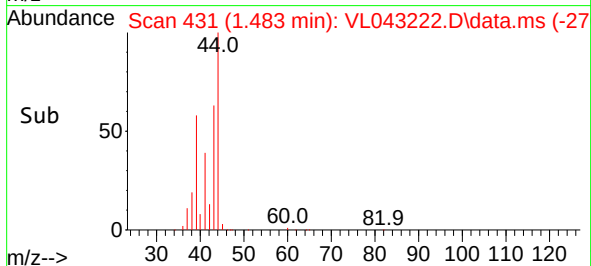
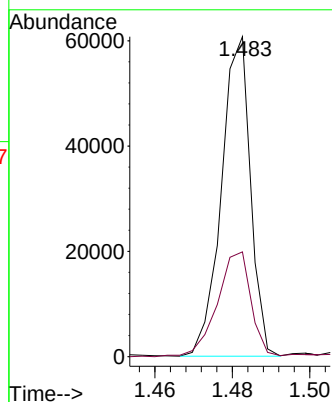
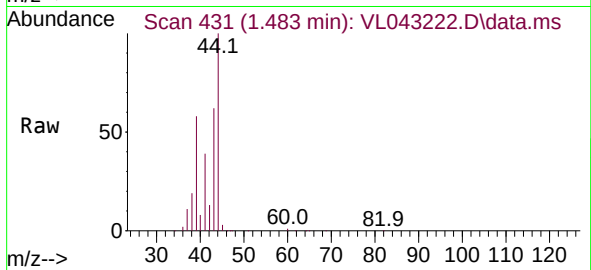
#9
 Propene
 Concen: 5.511 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043222.D
 Acq: 18 Nov 2025 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 31623
 Ion Ratio Lower Upper
 41 100
 42 39.1 3.7 5.5

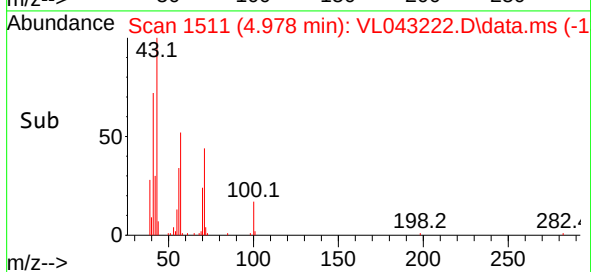
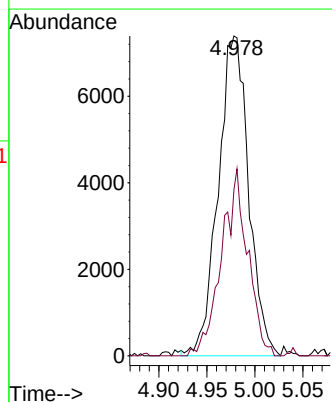
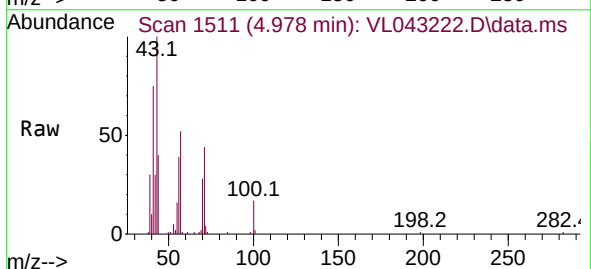
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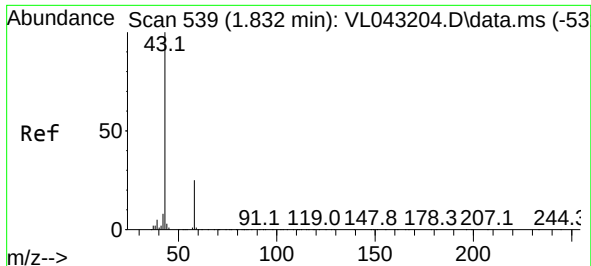
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 0.954 ppbv m
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.013 min
 Lab File: VL043222.D
 Acq: 18 Nov 2025 20:29

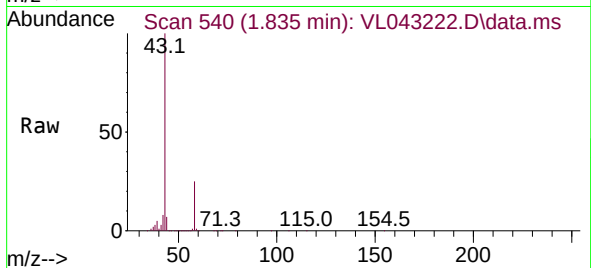
Tgt Ion: 43 Resp: 16286
 Ion Ratio Lower Upper
 43 100
 57 51.1 39.7 59.5





#15
Acetone
Concen: 28.640 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

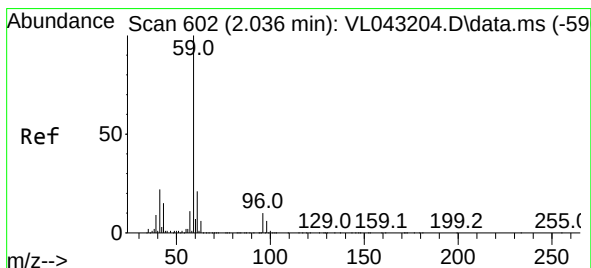
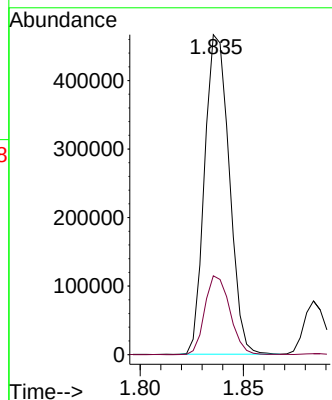
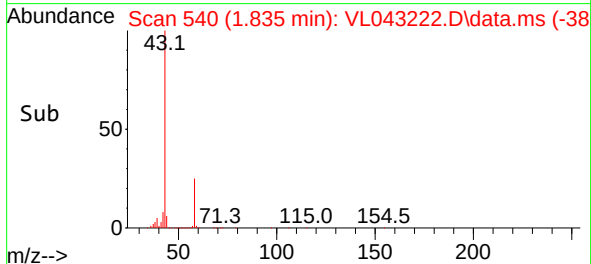
Instrument :
MSVOA_L
ClientSampleId :
SV1



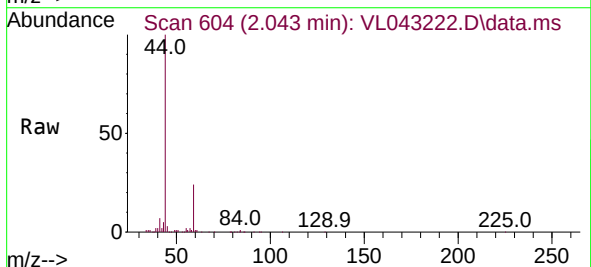
Tgt Ion: 43 Resp: 387646
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1

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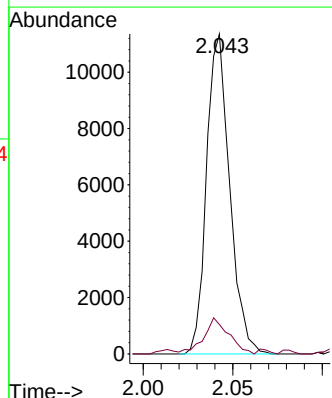
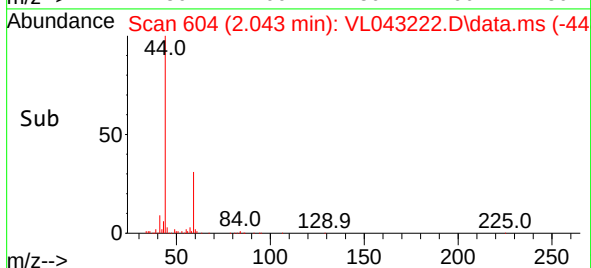
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

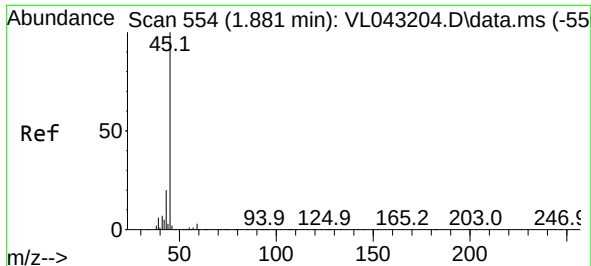


#17
tert-Butyl alcohol
Concen: 0.573 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29



Tgt Ion: 59 Resp: 10185
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.4





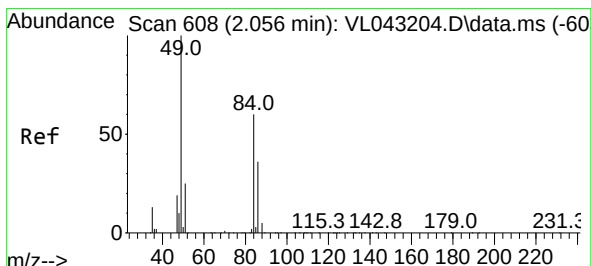
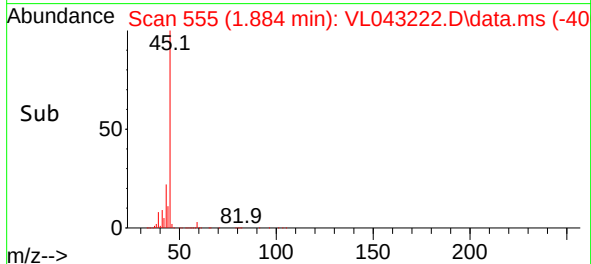
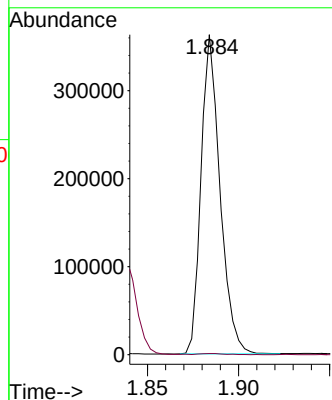
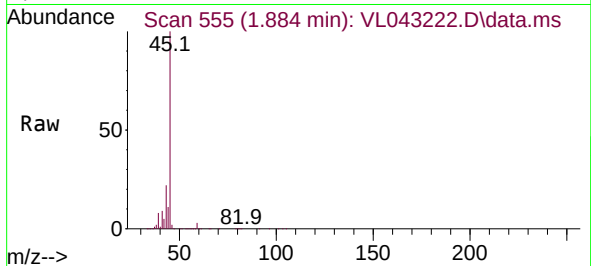
#19
Isopropyl Alcohol
Concen: 34.376 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 262922
Ion Ratio Lower Upper
45 100
58 36.9 31.3 46.9

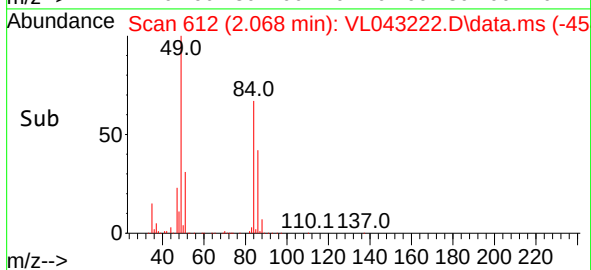
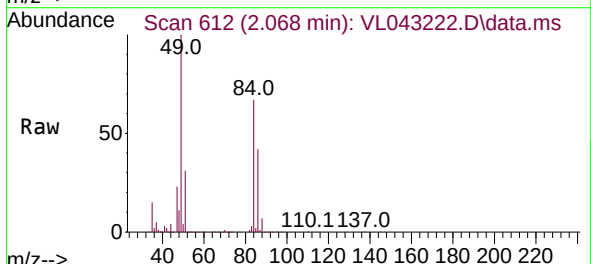
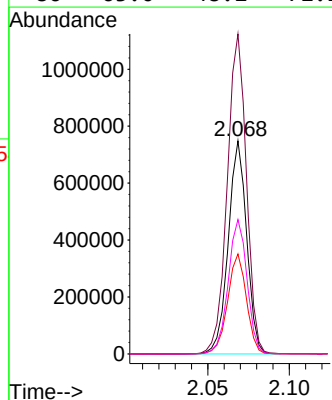
Manual Integrations
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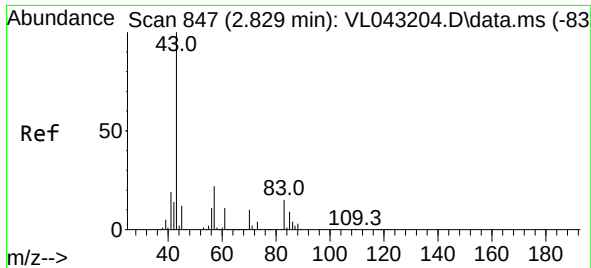
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 160.005 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.012 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 84 Resp: 591192
Ion Ratio Lower Upper
84 100
49 150.2 132.9 199.3
51 46.9 34.8 52.2
86 63.0 48.2 72.2





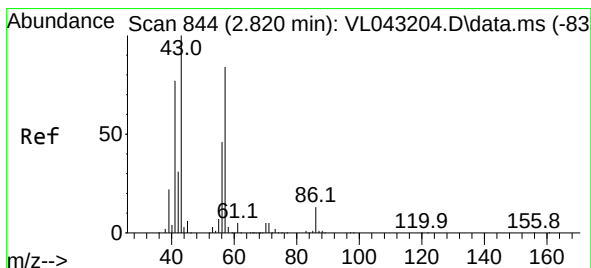
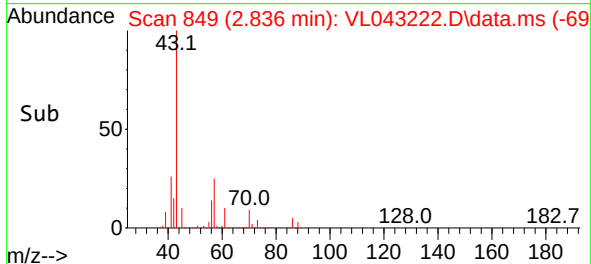
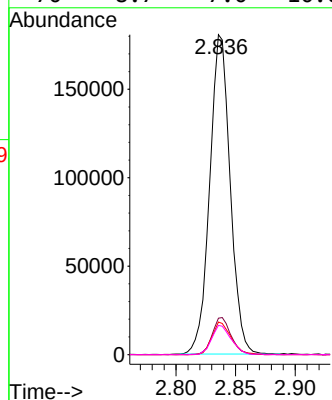
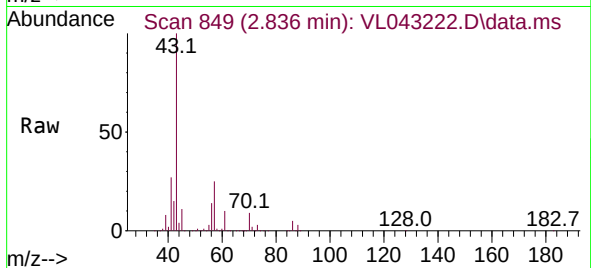
#25
Ethyl Acetate
Concen: 7.379 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 215424
Ion Ratio Lower Upper
43 100
45 10.8 8.1 12.1
61 9.5 7.0 10.4
70 8.7 7.0 10.6

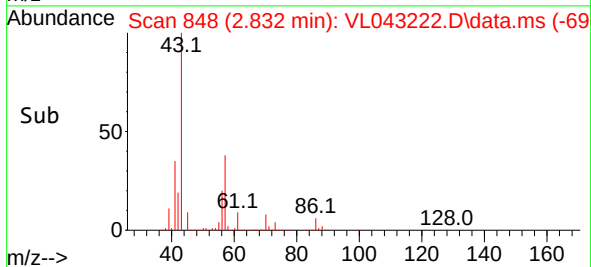
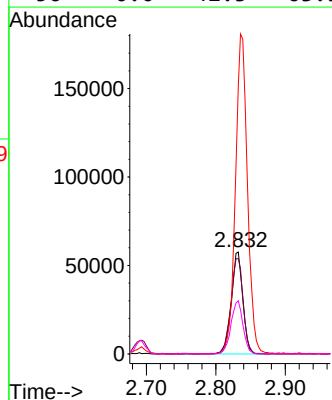
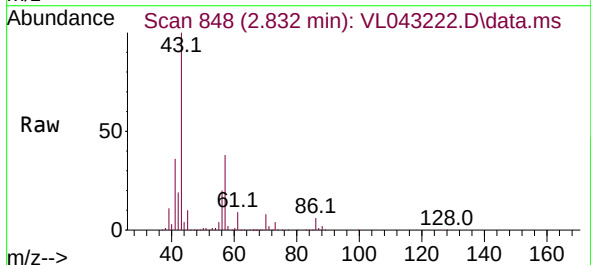
Manual Integrations
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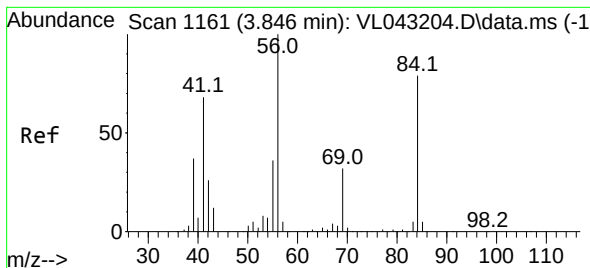
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#26
Hexane
Concen: 5.194 ppbv m
RT: 2.832 min Scan# 848
Delta R.T. 0.013 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 57 Resp: 66477
Ion Ratio Lower Upper
57 100
41 0.0 74.6 111.8#
43 0.0 179.0 268.4#
56 0.0 42.3 63.5#





#30

Cyclohexane

Concen: 0.325 ppbv

RT: 3.862 min Scan# 1161

Delta R.T. 0.016 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Instrument :

MSVOA_L

ClientSampleId :

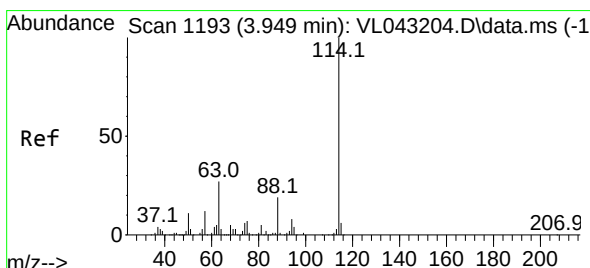
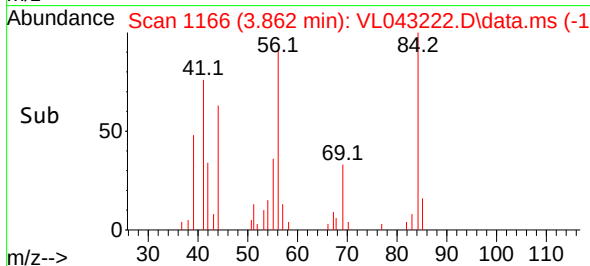
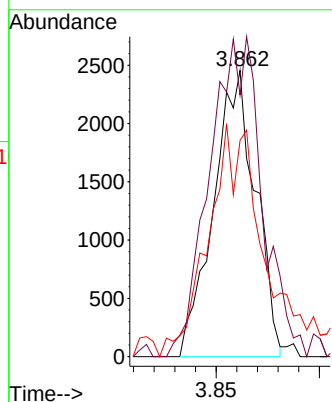
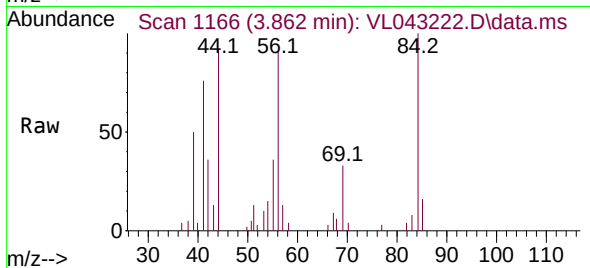
SV1

Tgt Ion:	84	Resp:	3485
Ion Ratio	Lower	Upper	
84	100		
56	142.3	104.7	157.1
41	115.2	69.0	103.6

Manual Integrations

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Supervised By :Mahesh Dadoda 11/19/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

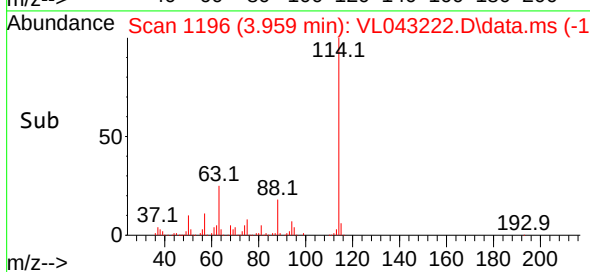
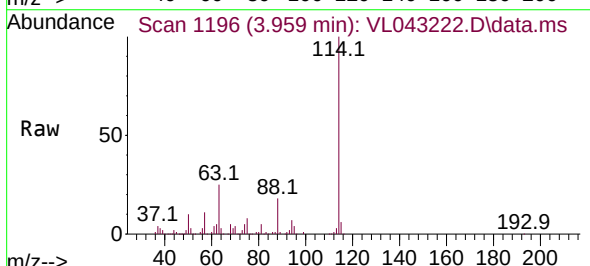
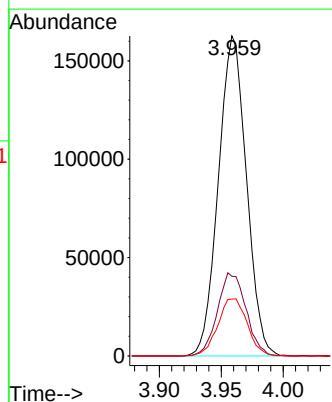
RT: 3.959 min Scan# 1196

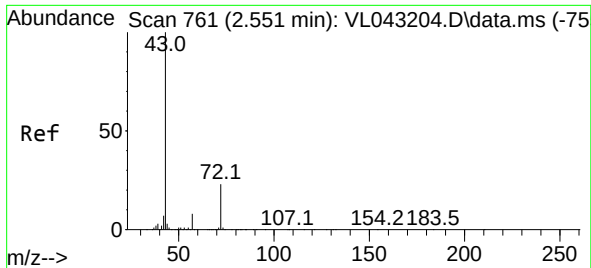
Delta R.T. 0.009 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Tgt Ion:	114	Resp:	255477
Ion Ratio	Lower	Upper	
114	100		
63	26.4	21.0	31.6
88	18.7	14.9	22.3





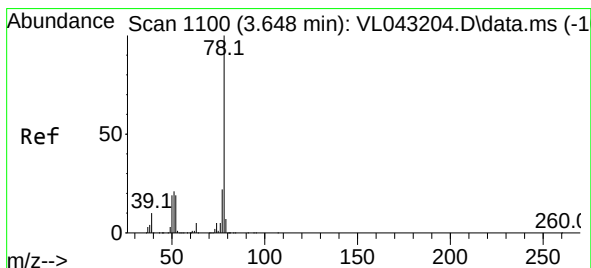
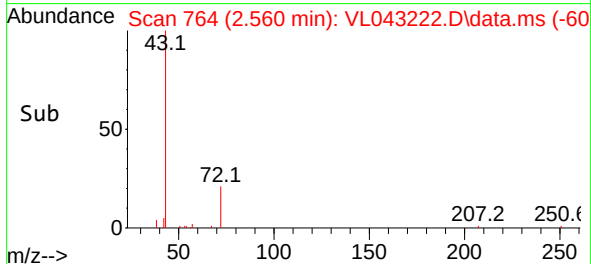
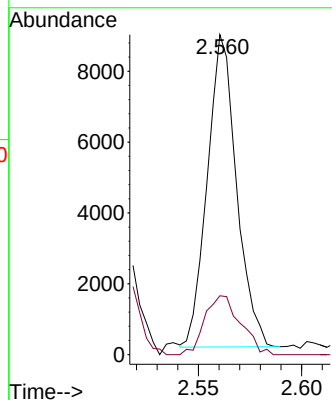
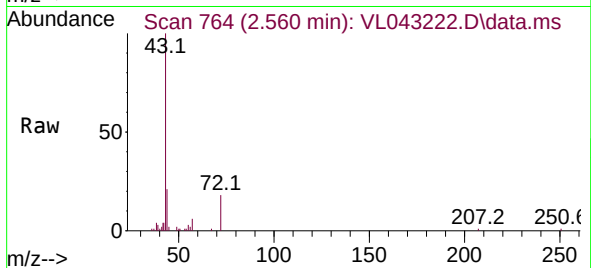
#34
2-Butanone
Concen: 0.482 ppbv
RT: 2.560 min Scan# 70
Delta R.T. 0.009 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 8685
Ion Ratio Lower Upper
43 100
72 23.0 18.1 27.1

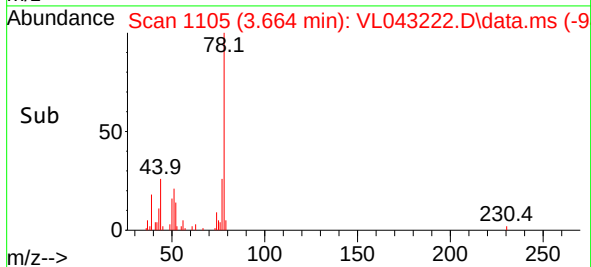
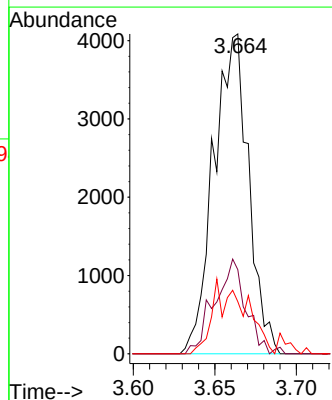
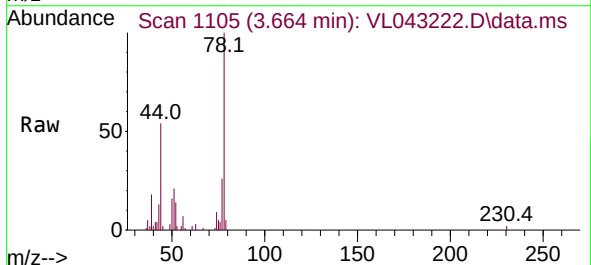
Manual Integrations
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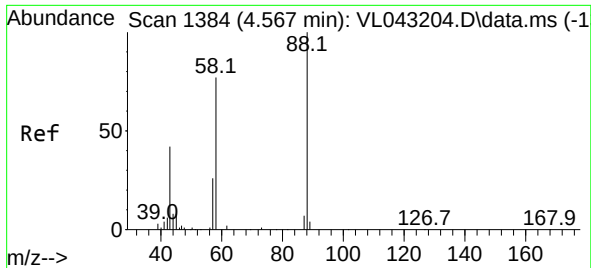
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.249 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.016 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 78 Resp: 6086
Ion Ratio Lower Upper
78 100
77 26.3 17.5 26.3#
50 16.3 15.5 23.3





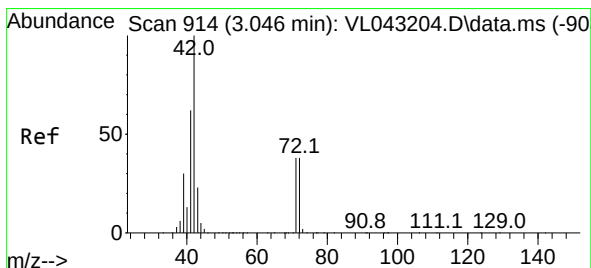
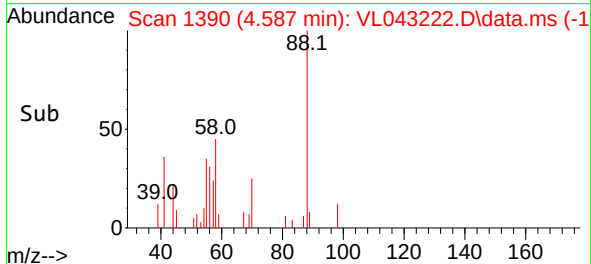
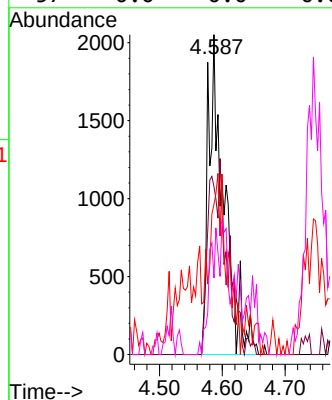
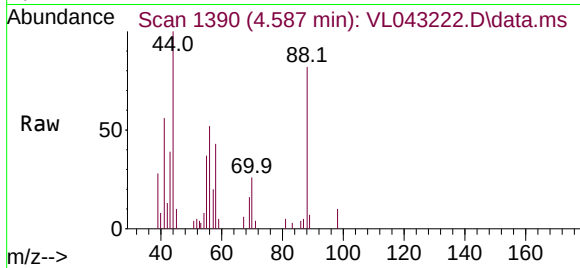
#40
1,4-Dioxane
Concen: 0.888 ppbv m
RT: 4.587 min Scan# 1384
Delta R.T. 0.019 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 88	Resp: 3574
Ion Ratio	Lower Upper
88 100	
58 0.0	63.0 94.6
43 0.0	32.5 48.7
57 0.0	0.0 0.0

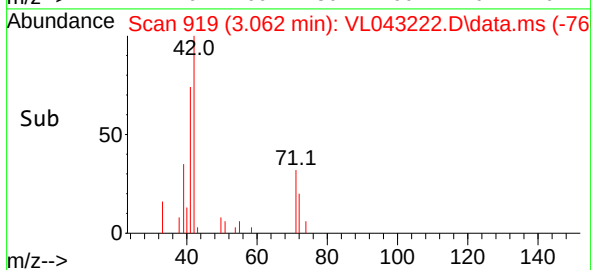
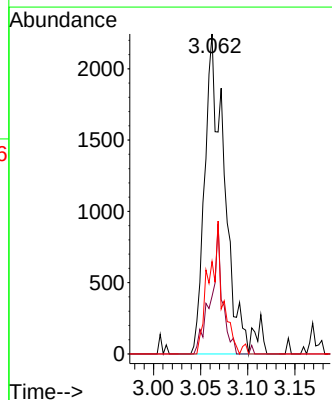
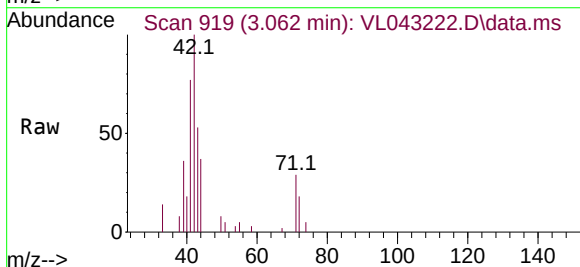
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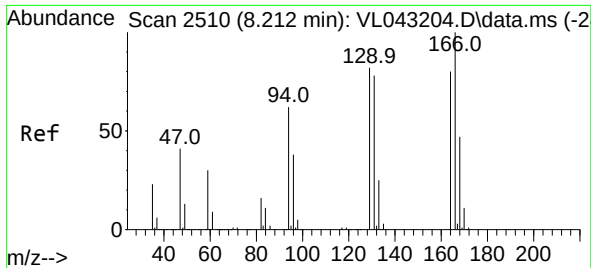
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#41
Tetrahydrofuran
Concen: 0.339 ppbv m
RT: 3.062 min Scan# 919
Delta R.T. 0.016 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

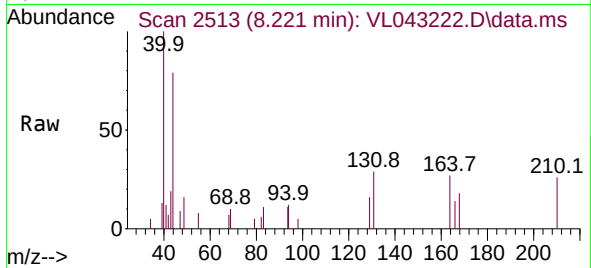
Tgt Ion: 42	Resp: 3376
Ion Ratio	Lower Upper
42 100	
72 0.0	30.6 46.0#
71 0.0	30.5 45.7#





#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.221 min Scan# 2113
Delta R.T. 0.009 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

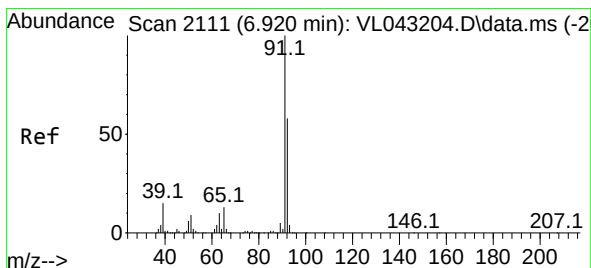
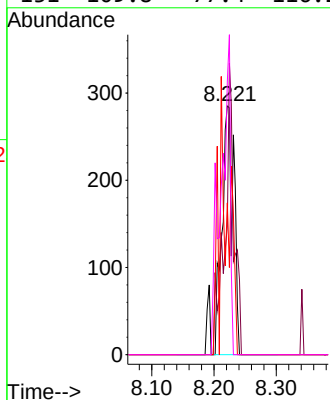
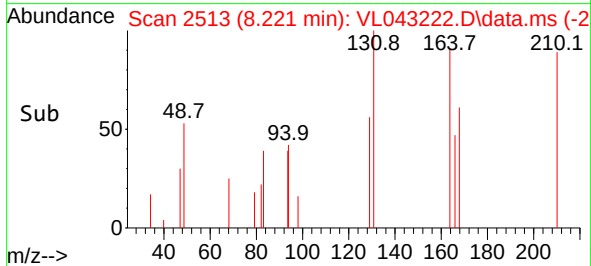
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 399
Ion Ratio Lower Upper
164 100
166 51.6 99.4 149.2
129 61.1 81.8 122.8
131 109.8 77.4 116.2

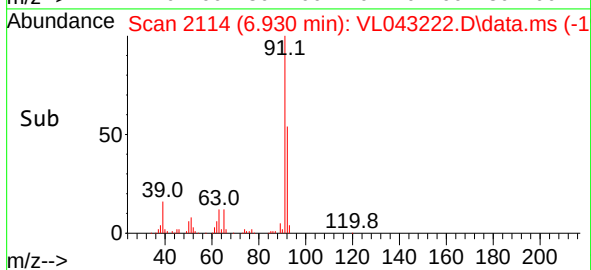
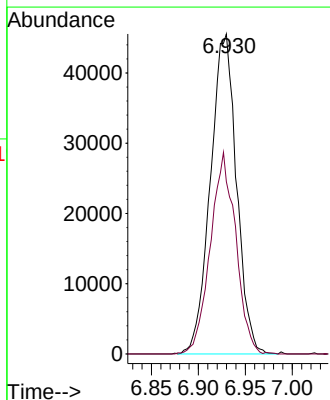
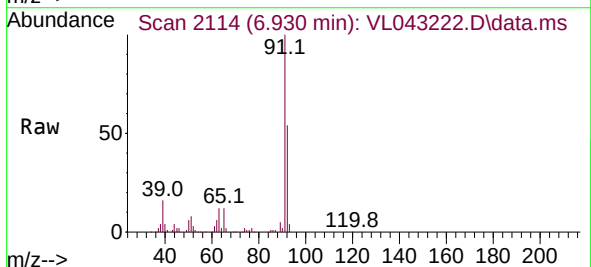
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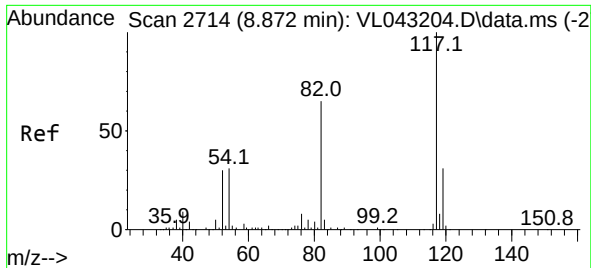
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 3.051 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.009 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

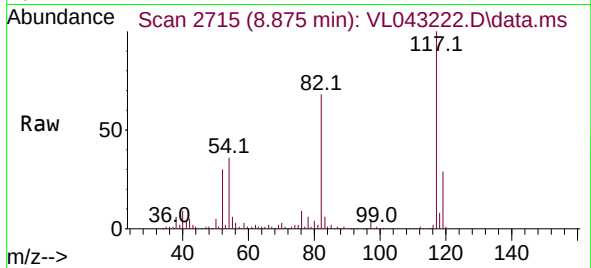
Tgt Ion: 91 Resp: 88387
Ion Ratio Lower Upper
91 100
92 61.2 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

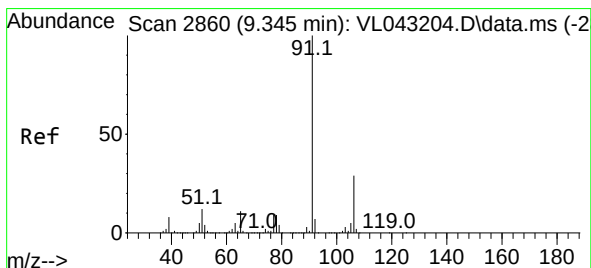
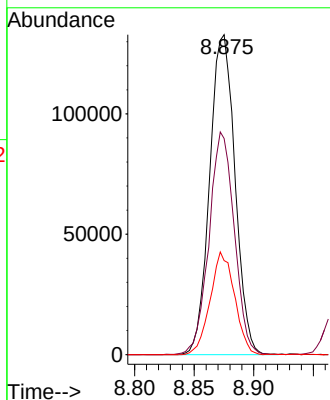
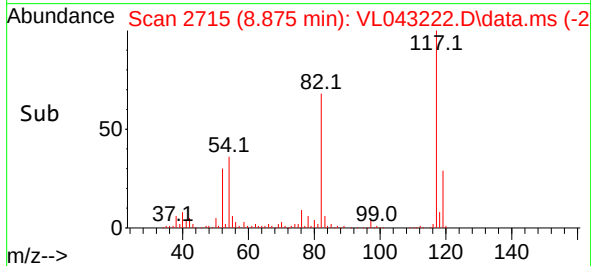
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 197025
Ion Ratio Lower Upper
117 100
82 69.4 56.1 84.1
119 30.9 25.0 37.6

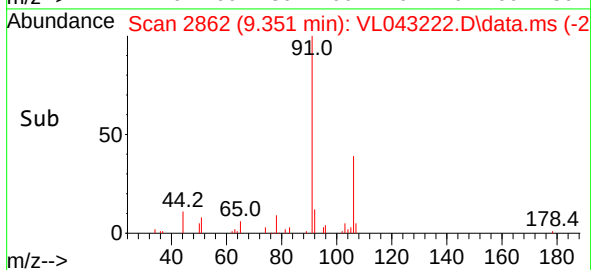
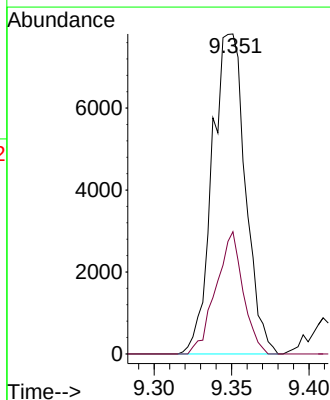
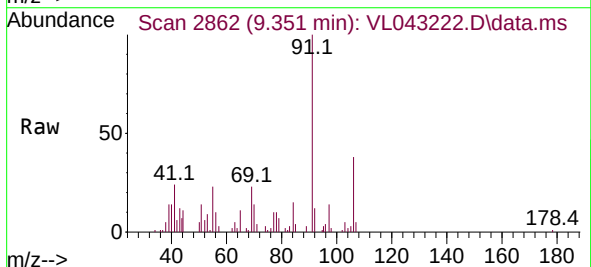
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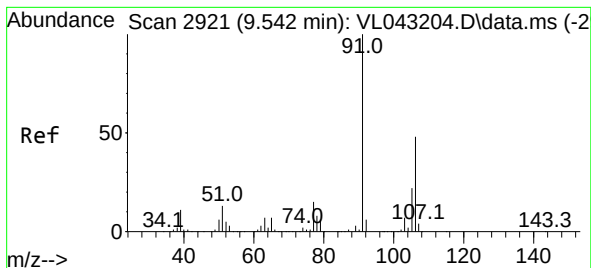
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.307 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Tgt Ion: 91 Resp: 11657
Ion Ratio Lower Upper
91 100
106 38.2 22.8 34.2#





#59

m/p-Xylene

Concen: 0.824 ppbv

RT: 9.529 min Scan# 29

Delta R.T. -0.013 min

Lab File: VL043222.D

Acq: 18 Nov 2025 20:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 25042

Ion Ratio Lower Upper

91 100

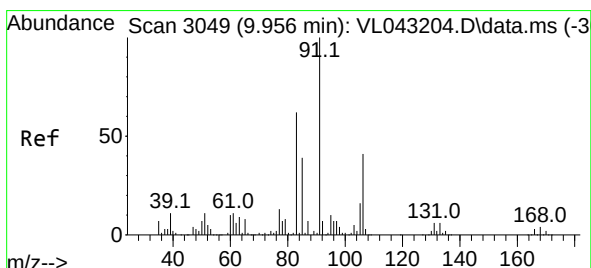
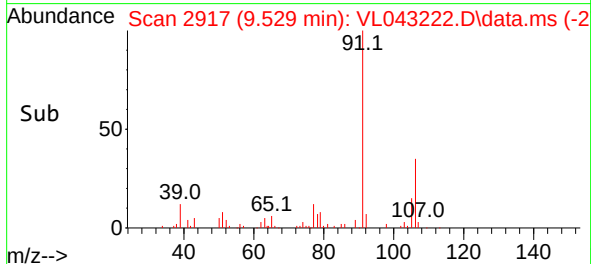
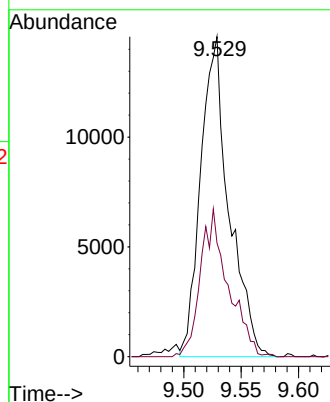
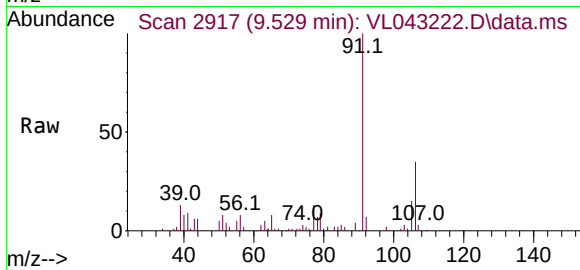
106 45.0 36.1 54.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#60

o-Xylene

Concen: 0.403 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.000 min

Lab File: VL043222.D

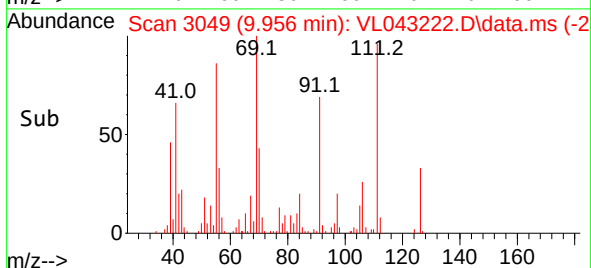
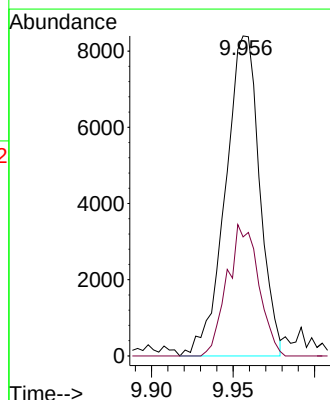
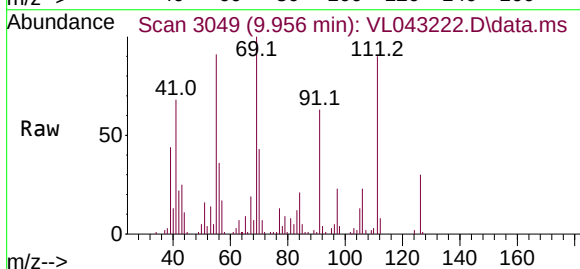
Acq: 18 Nov 2025 20:29

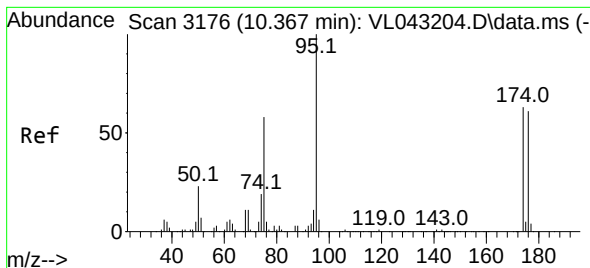
Tgt Ion: 91 Resp: 12246

Ion Ratio Lower Upper

91 100

106 37.7 20.9 62.8





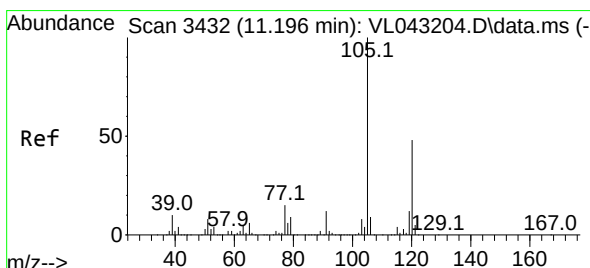
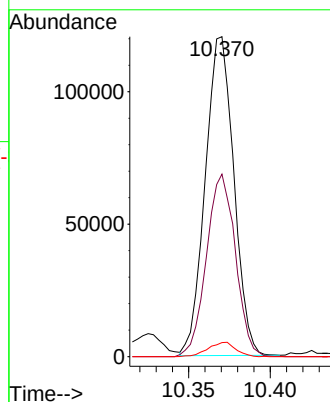
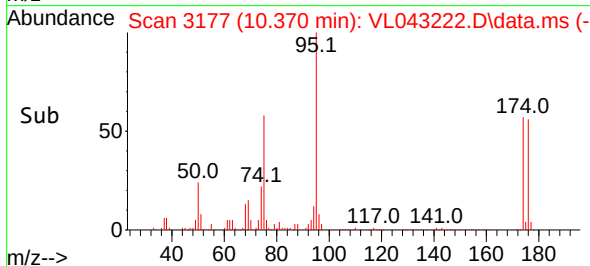
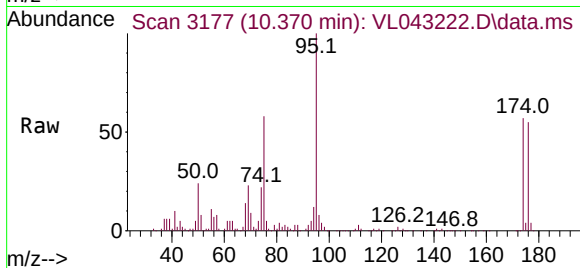
#68
1-Bromo-4-Fluorobenzene
Concen: 10.185 ppbv
RT: 10.370 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 14708
Ion Ratio Lower Upper
95 100
174 57.9 50.2 75.2
175 4.3 4.1 6.1

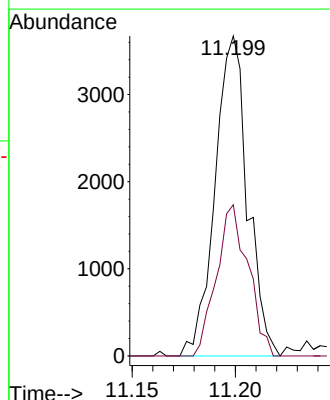
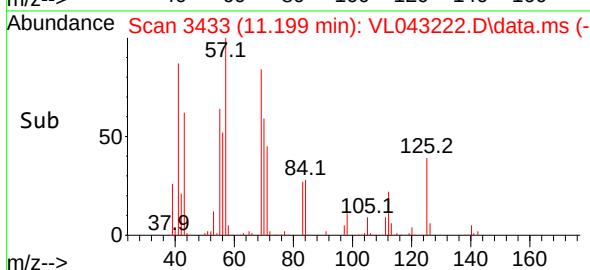
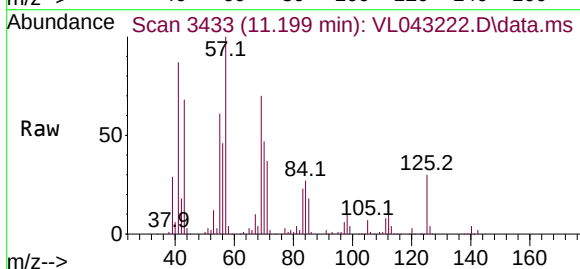
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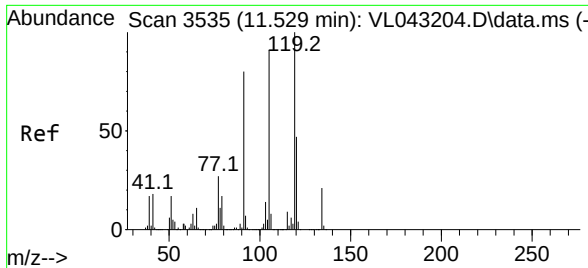
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.130 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043222.D
Acq: 18 Nov 2025 20:29

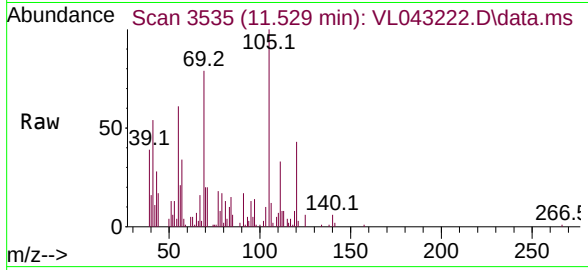
Tgt Ion:105 Resp: 4030
Ion Ratio Lower Upper
105 100
120 47.3 38.6 57.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.230 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL043222.D
 Acq: 18 Nov 2025 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	778
Ion	Ratio	Lower	Upper
105	100		
120	42.4	41.7	62.5
91	13.6	70.0	105.0
77	9.4	23.8	35.8

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

