

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042776.D
 Acq On : 29 Jul 2025 10:50
 Operator : SY/MD
 Sample : Q2712-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:08:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	151661	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	409840	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	382977	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	309355	10.200	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	179518	8.953	ppbv	96
3) Chlorodifluoromethane	1.476	51	240720	9.216	ppbv #	89
10) Heptane	4.994	43	5526m	0.216	ppbv	
11) Trichlorofluoromethane	1.881	101	338950	16.398	ppbv	99
13) Ethanol	1.725	45	4877m	5.903	ppbv	
15) Acetone	1.839	43	73359	3.503	ppbv	98
26) Hexane	2.829	57	18933	0.931	ppbv #	43
29) Chloroform	2.855	83	16839	0.536	ppbv	94
31) cis-1,2-Dichloroethene	2.725	61	2211	0.106	ppbv #	81
34) 2-Butanone	2.567	43	17553	0.605	ppbv	100
38) Trichloroethene	4.554	130	15898m	0.852	ppbv	
52) Tetrachloroethene	8.234	164	331325	20.579	ppbv	97
53) Toluene	6.946	91	12967m	0.311	ppbv	
59) m/p-Xylene	9.542	91	20861	0.432	ppbv	100
60) o-Xylene	9.969	91	11841	0.245	ppbv	93
74) 1,2,4-Trimethylbenzene	11.542	105	7384	0.143	ppbv #	65
79) Naphthalene	13.516	128	2825	0.483	ppbv #	11

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

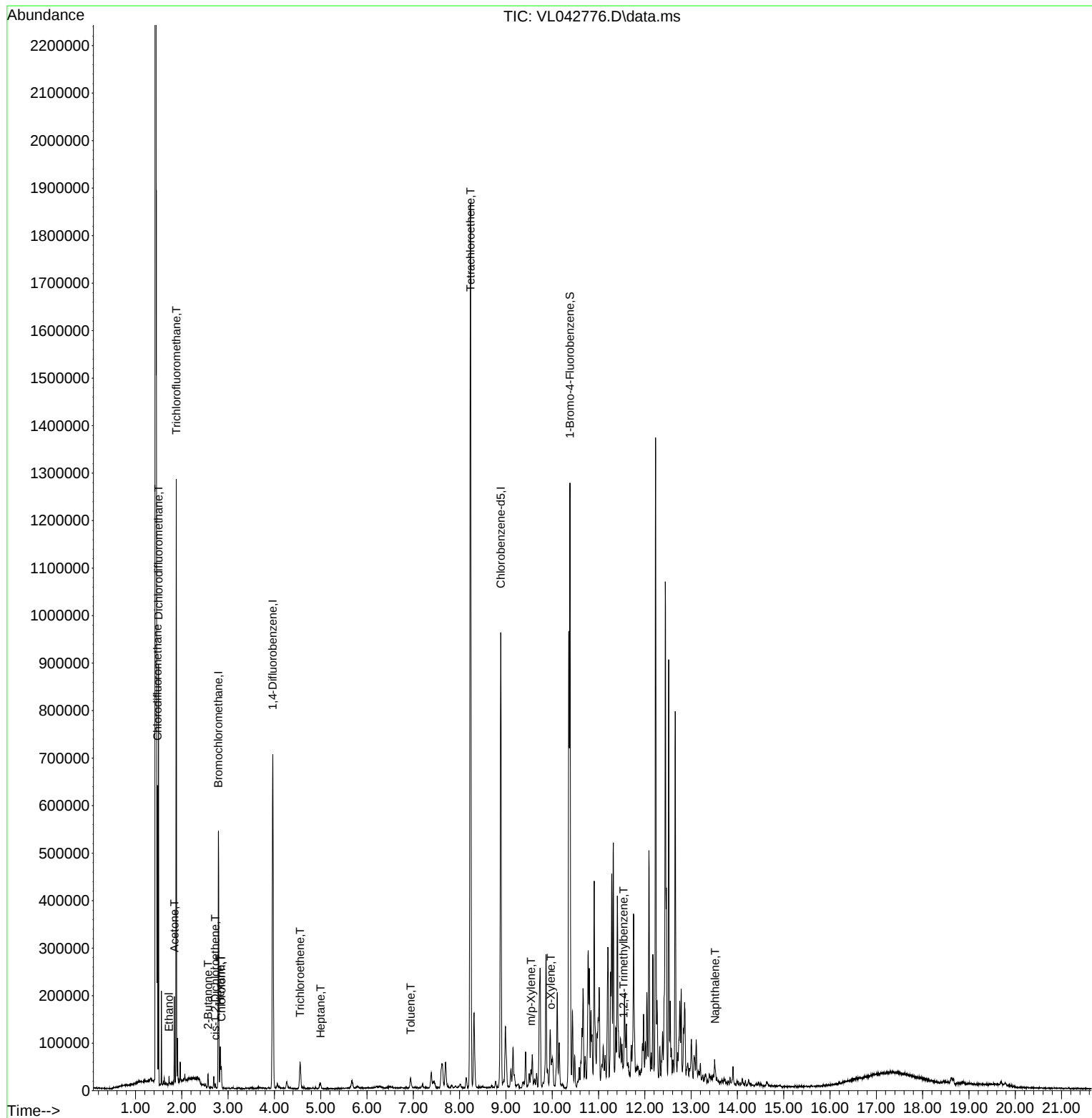
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042776.D
Acq On : 29 Jul 2025 10:50
Operator : SY/MD
Sample : Q2712-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

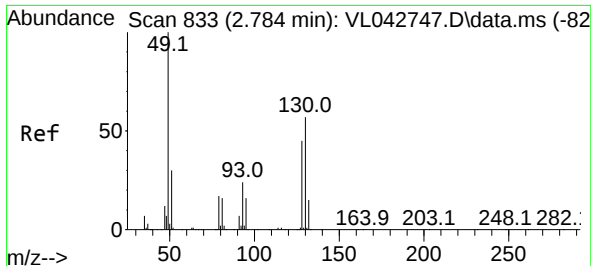
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Supervised By :Mahesh Dadoda 07/30/2025

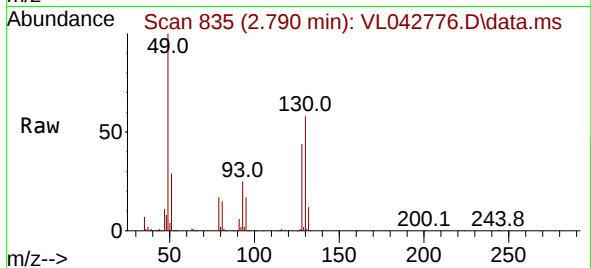
Quant Time: Jul 30 01:08:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

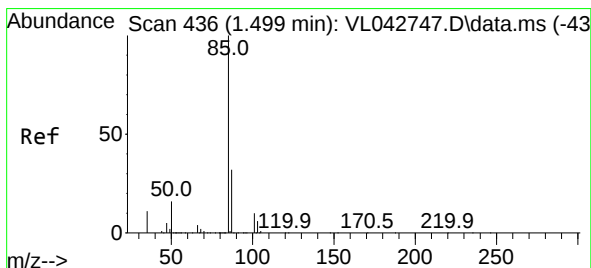
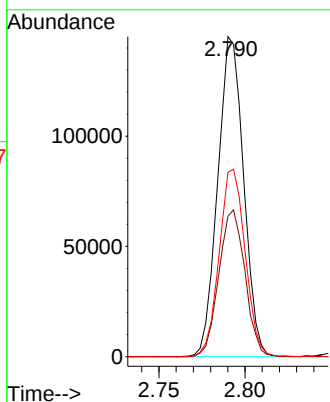
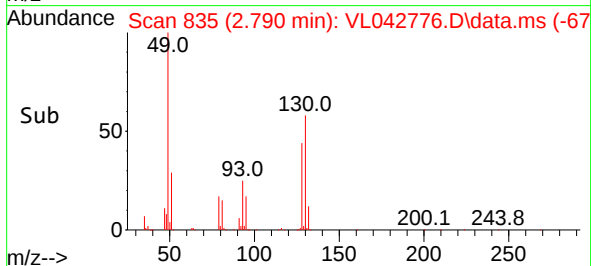
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 15166
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 58.8 30.3 90.8

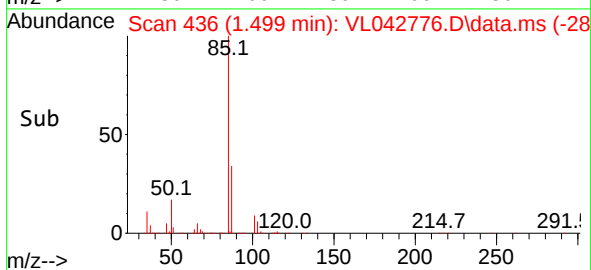
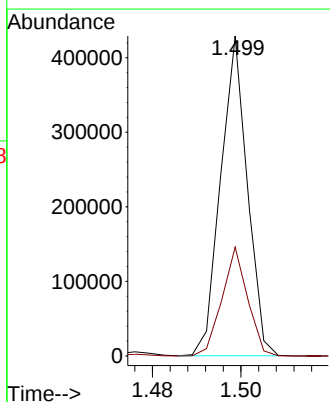
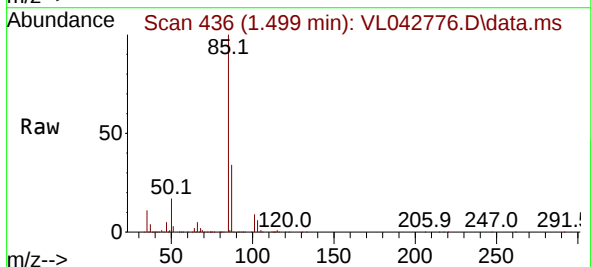
Manual Integrations
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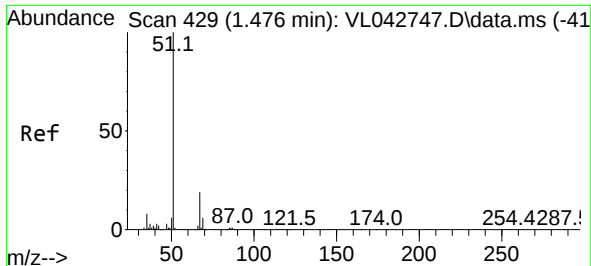
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 8.953 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

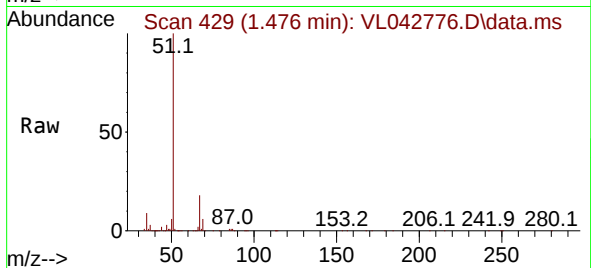
Tgt Ion: 85 Resp: 179518
Ion Ratio Lower Upper
85 100
87 34.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 9.216 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

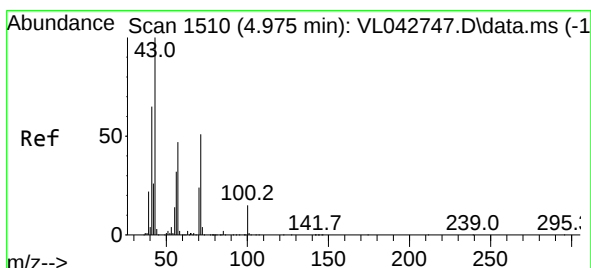
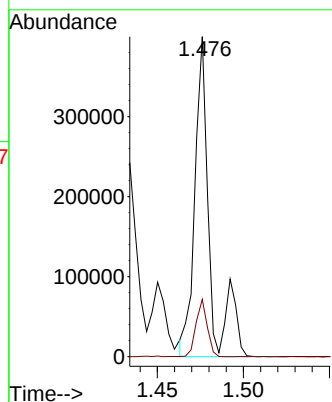
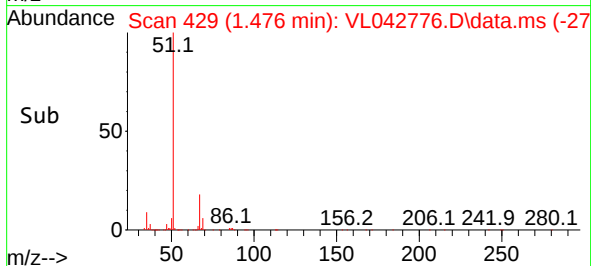
Instrument :
MSVOA_L
ClientSampleId :
SV1



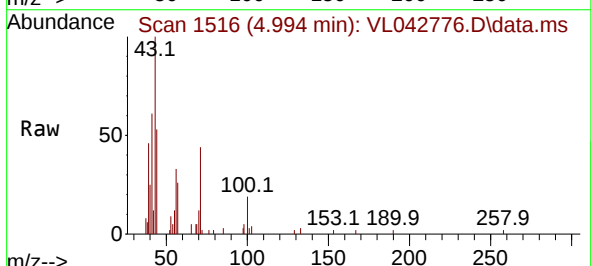
Tgt Ion: 51 Resp: 240720
Ion Ratio Lower Upper
51 100
67 13.9 15.0 22.6

Manual Integrations
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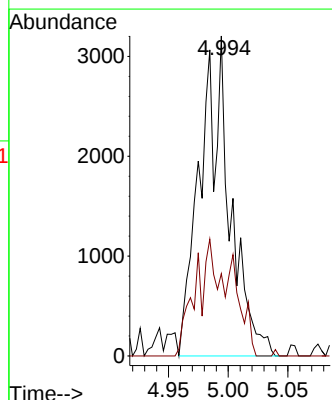
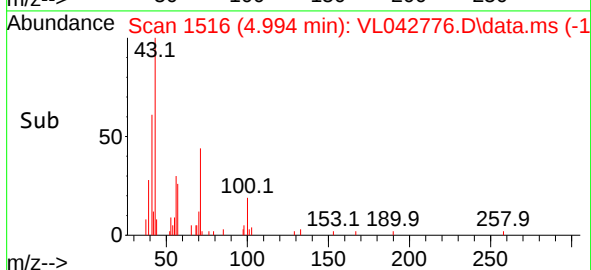
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

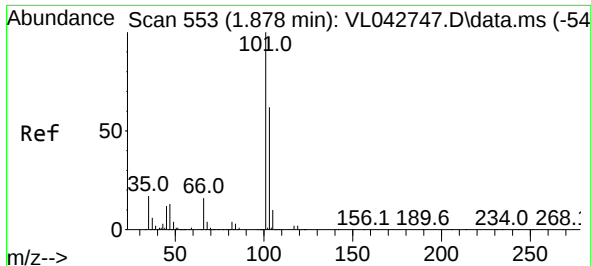


#10
Heptane
Concen: 0.216 ppbv m
RT: 4.994 min Scan# 1516
Delta R.T. 0.019 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50



Tgt Ion: 43 Resp: 5526
Ion Ratio Lower Upper
43 100
57 43.6 39.9 59.9





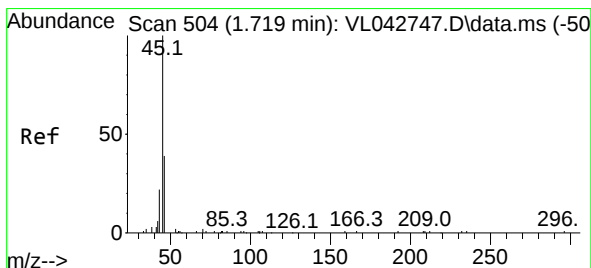
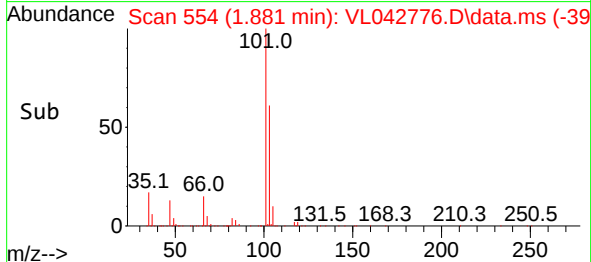
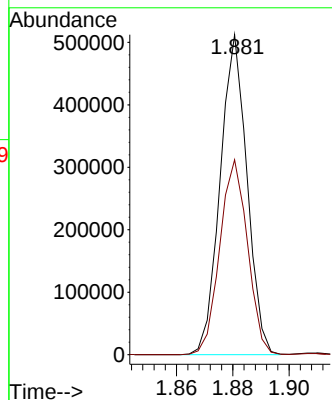
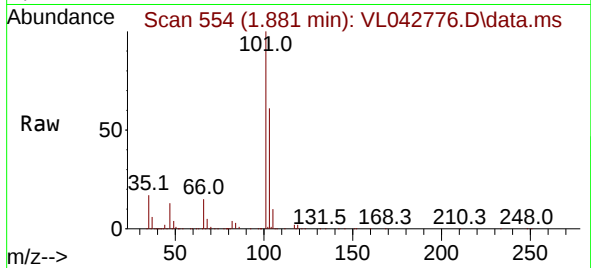
#11
Trichlorofluoromethane
Concen: 16.398 ppbv
RT: 1.881 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:101 Resp: 338950
Ion Ratio Lower Upper
101 100
103 60.9 49.6 74.4

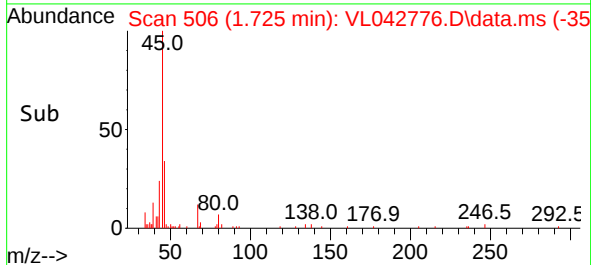
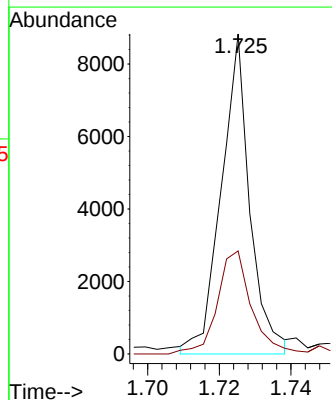
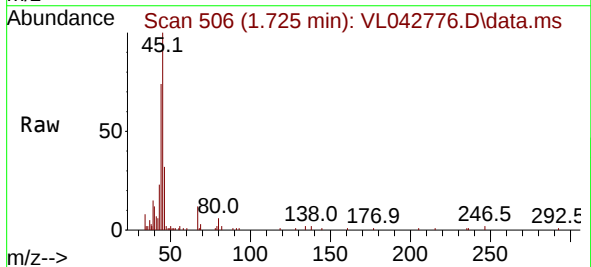
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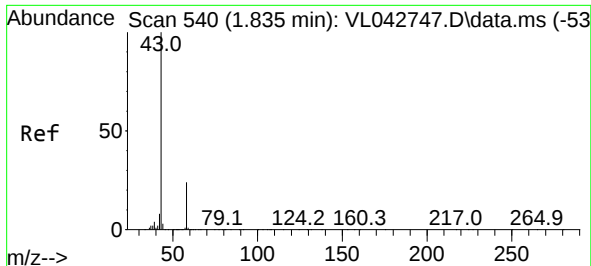
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#13
Ethanol
Concen: 5.903 ppbv m
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

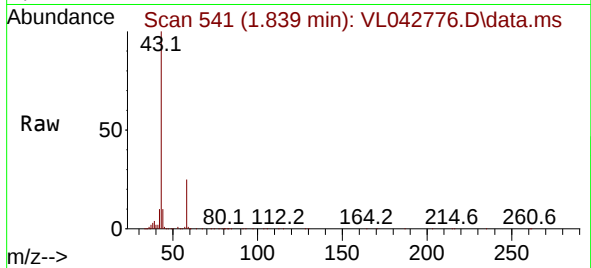
Tgt Ion: 45 Resp: 4877
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4#





#15
Acetone
Concen: 3.503 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

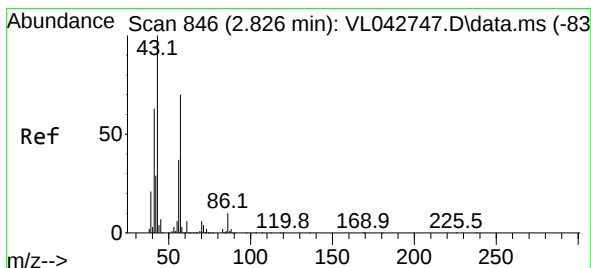
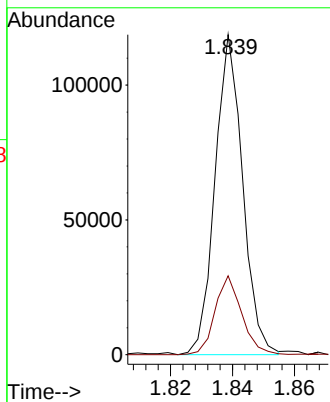
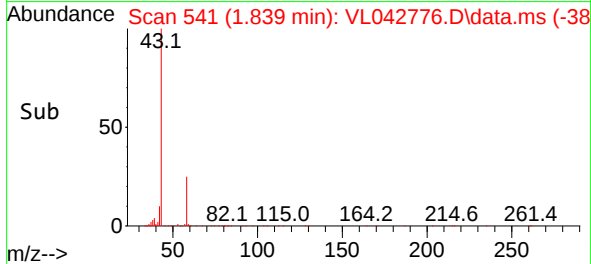
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 73359
Ion Ratio Lower Upper
43 100
58 24.0 19.8 29.8

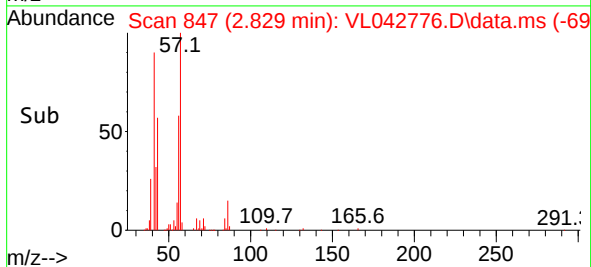
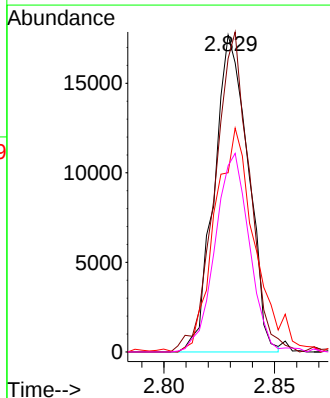
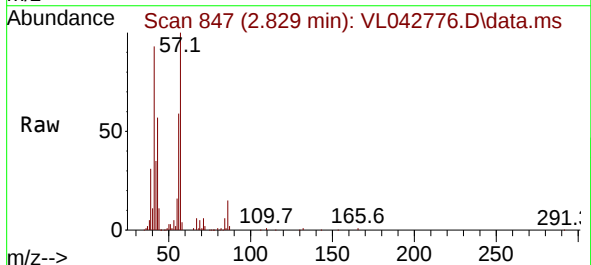
Manual Integrations
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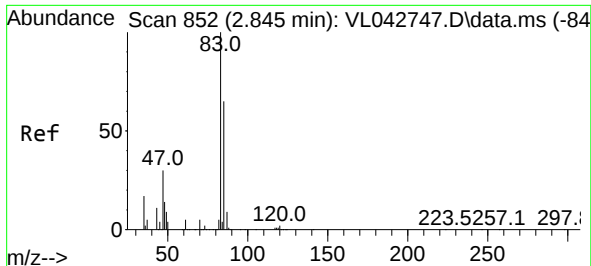
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#26
Hexane
Concen: 0.931 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Tgt Ion: 57 Resp: 18933
Ion Ratio Lower Upper
57 100
41 102.1 75.4 113.2
43 85.8 185.0 277.6#
56 63.6 42.9 64.3





#29

Chloroform

Concen: 0.536 ppbv

RT: 2.855 min Scan# 815

Delta R.T. 0.010 min

Lab File: VL042776.D

Acq: 29 Jul 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 16839

Ion Ratio Lower Upper

83 100

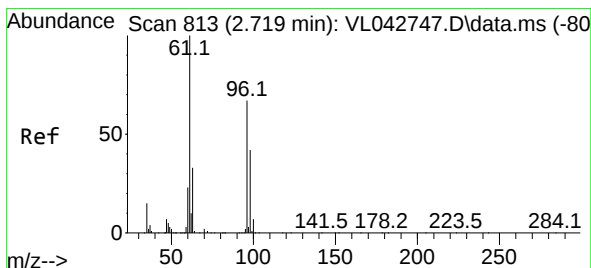
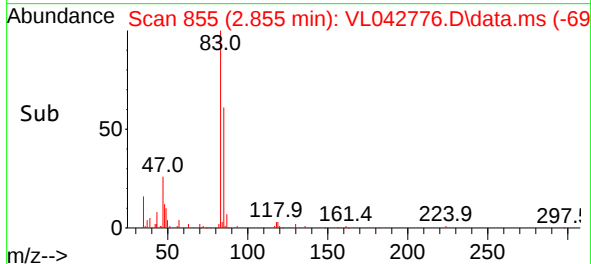
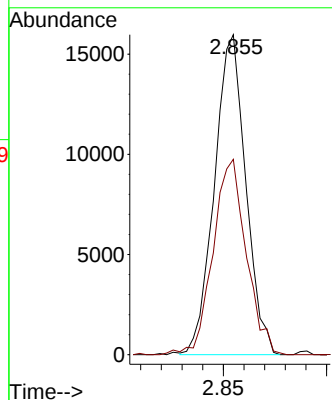
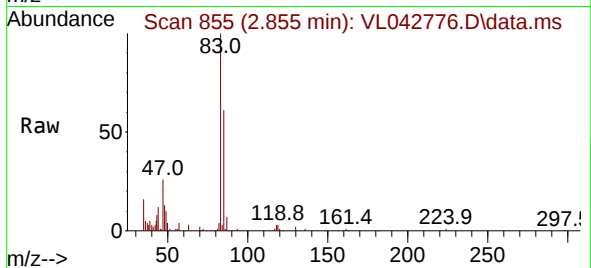
85 60.5 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#31

cis-1,2-Dichloroethene

Concen: 0.106 ppbv

RT: 2.725 min Scan# 815

Delta R.T. 0.006 min

Lab File: VL042776.D

Acq: 29 Jul 2025 10:50

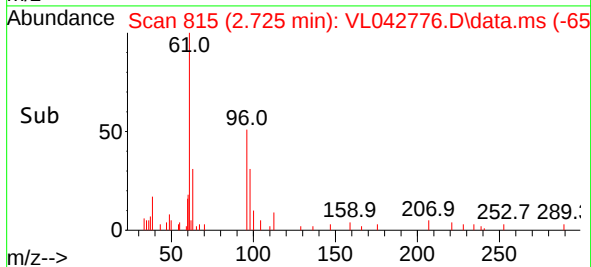
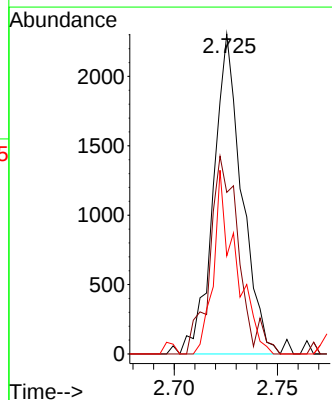
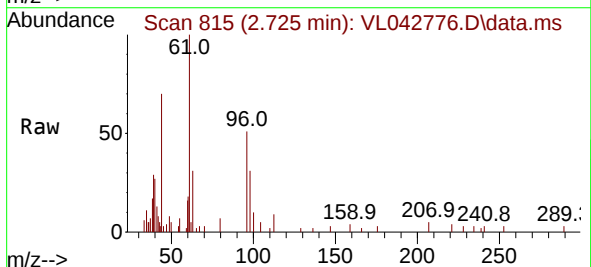
Tgt Ion: 61 Resp: 2211

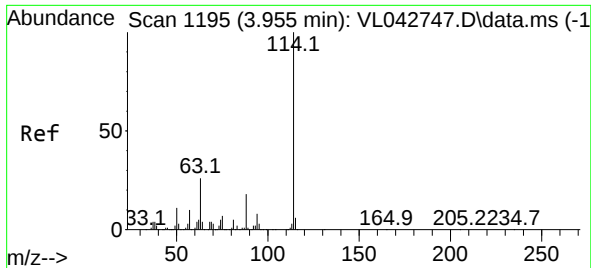
Ion Ratio Lower Upper

61 100

96 50.5 53.5 80.3#

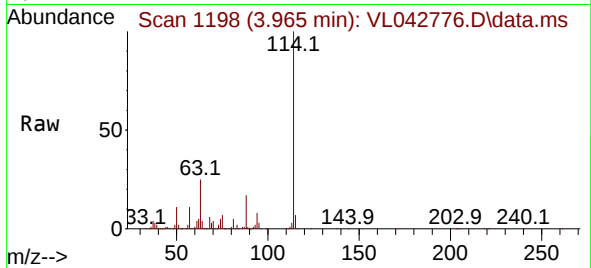
98 30.7 33.6 50.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

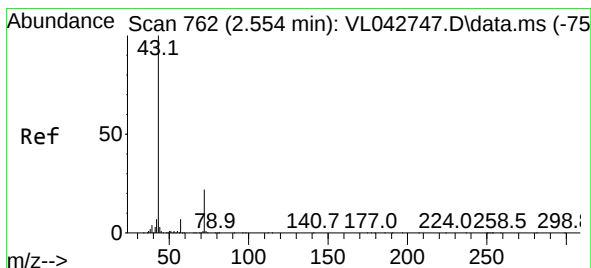
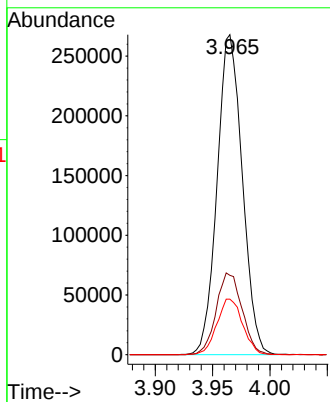
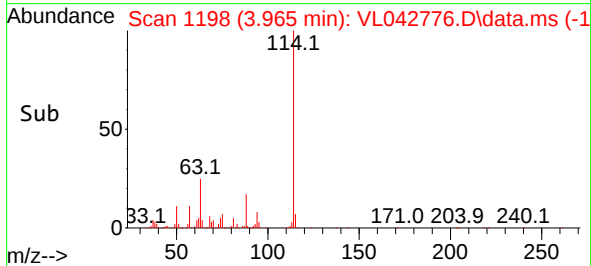
Instrument :
MSVOA_L
ClientSampleId :
SV1



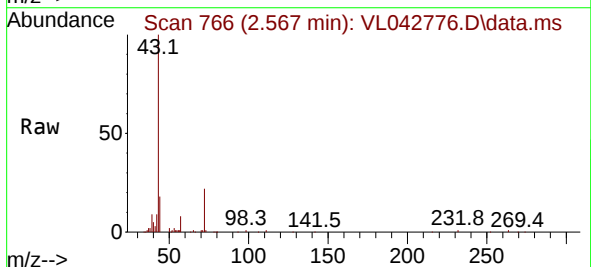
Tgt Ion:114 Resp: 409840
Ion Ratio Lower Upper
114 100
63 26.2 20.5 30.7
88 17.8 14.0 21.0

Manual Integrations
APPROVED

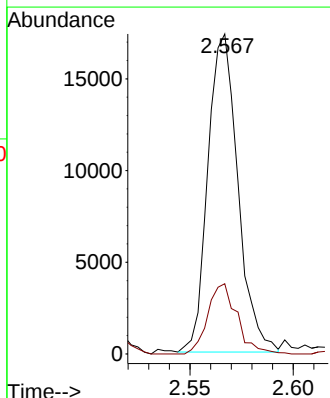
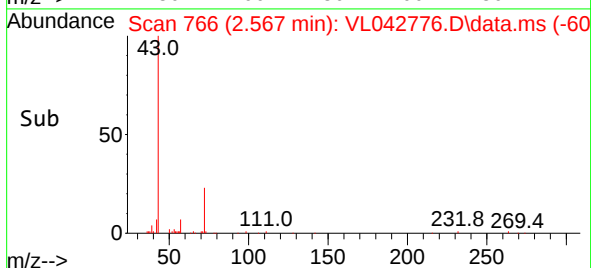
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

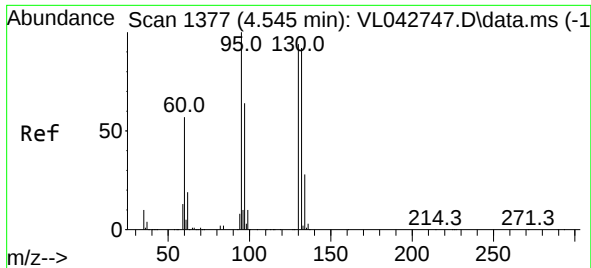


#34
2-Butanone
Concen: 0.605 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50



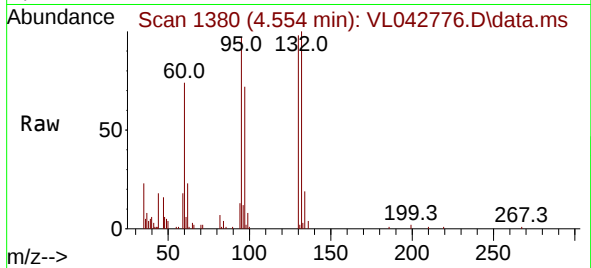
Tgt Ion: 43 Resp: 17553
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0





#38
 Trichloroethene
 Concen: 0.852 ppbv m
 RT: 4.554 min Scan# 1377
 Delta R.T. 0.010 min
 Lab File: VL042776.D
 Acq: 29 Jul 2025 10:50

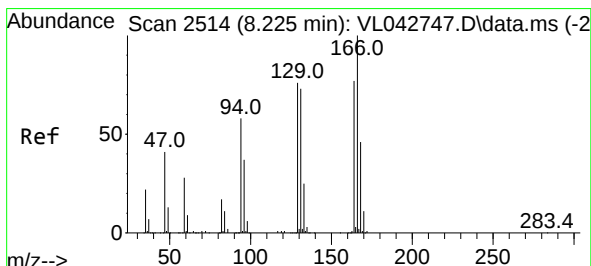
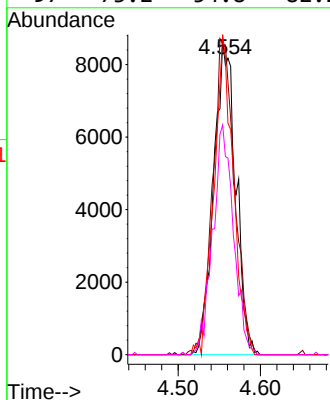
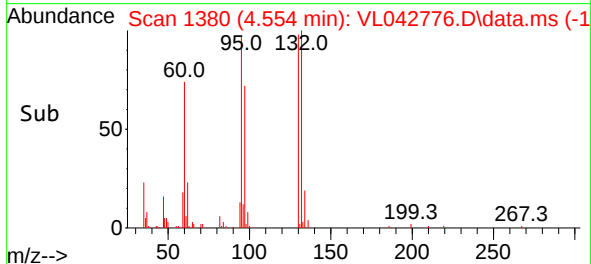
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:130 Resp: 15898
 Ion Ratio Lower Upper
 130 100
 95 98.8 85.4 128.2
 132 101.9 78.2 117.2
 97 73.2 54.8 82.2

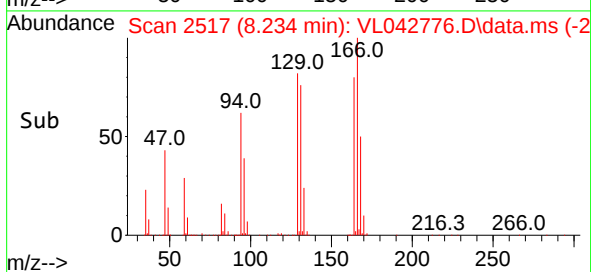
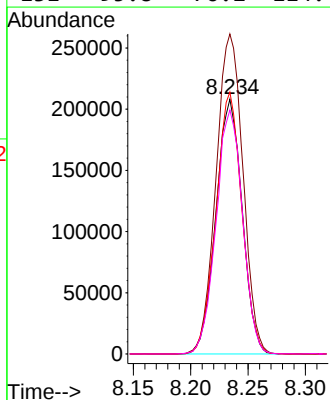
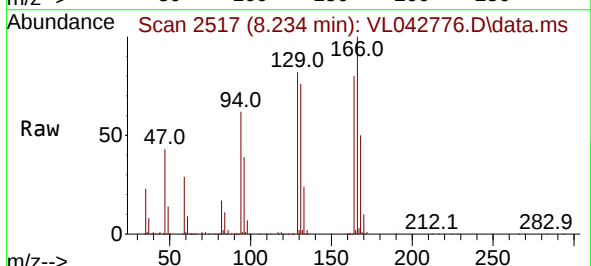
Manual Integrations
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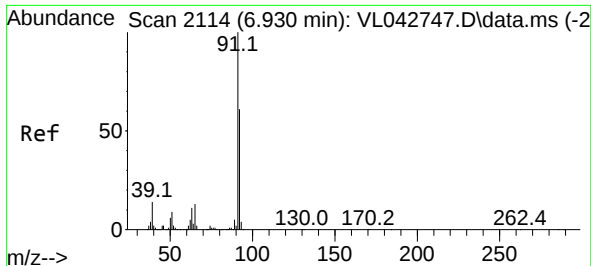
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#52
 Tetrachloroethene
 Concen: 20.579 ppbv
 RT: 8.234 min Scan# 2517
 Delta R.T. 0.010 min
 Lab File: VL042776.D
 Acq: 29 Jul 2025 10:50

Tgt Ion:164 Resp: 331325
 Ion Ratio Lower Upper
 164 100
 166 125.6 104.0 156.0
 129 102.9 79.2 118.8
 131 95.8 76.2 114.4





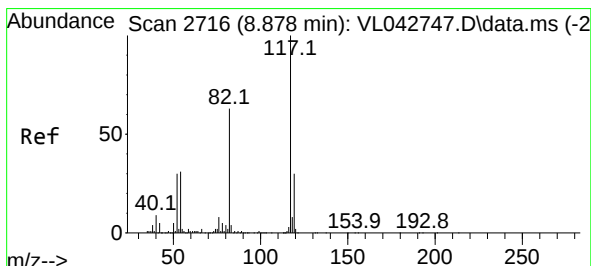
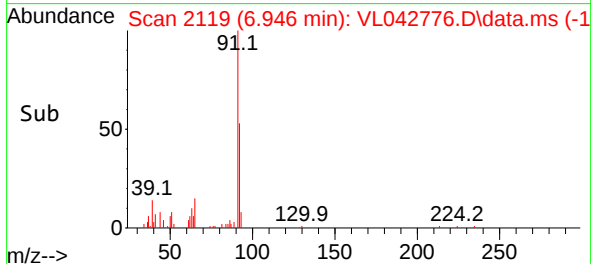
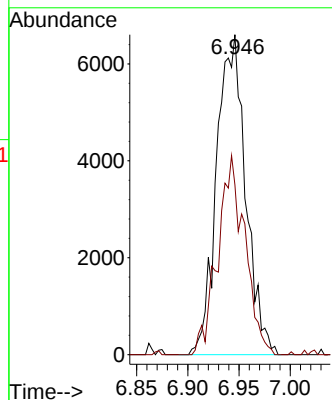
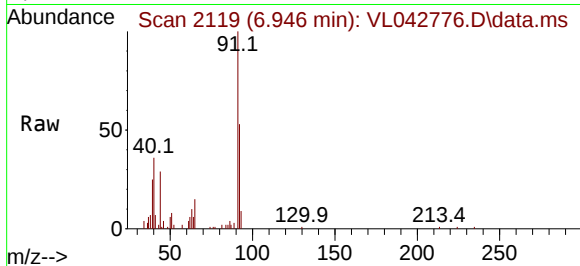
#53
Toluene
Concen: 0.311 ppbv m
RT: 6.946 min Scan# 2114
Delta R.T. 0.016 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 1296
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0

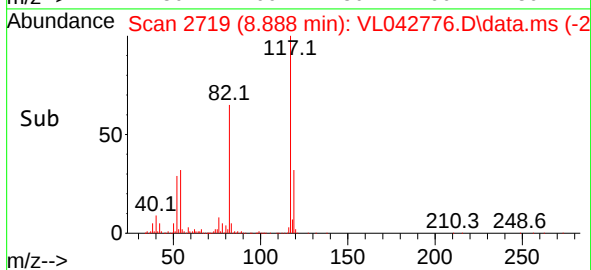
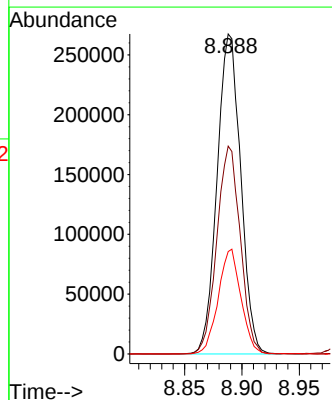
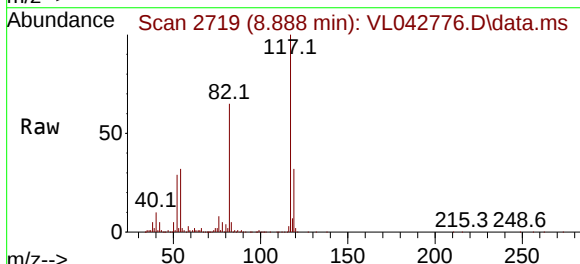
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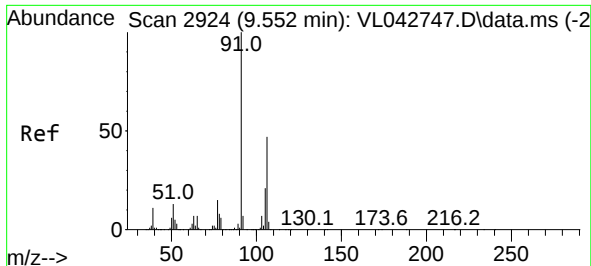
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Tgt Ion:117 Resp: 382977
Ion Ratio Lower Upper
117 100
82 64.6 53.3 79.9
119 31.6 25.8 38.6





#59

m/p-Xylene

Concen: 0.432 ppbv

RT: 9.542 min Scan# 2924

Delta R.T. -0.010 min

Lab File: VL042776.D

Acq: 29 Jul 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 2086

Ion Ratio Lower Upper

91 100

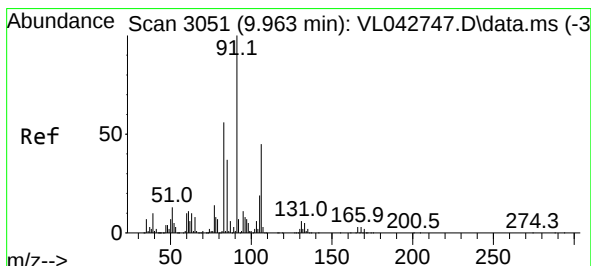
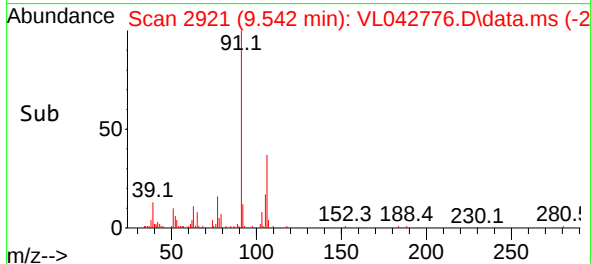
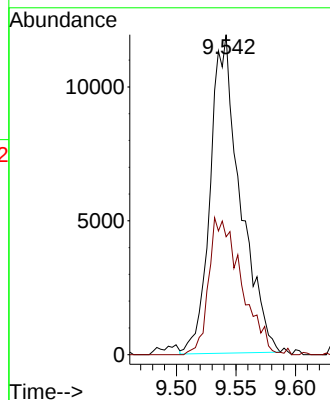
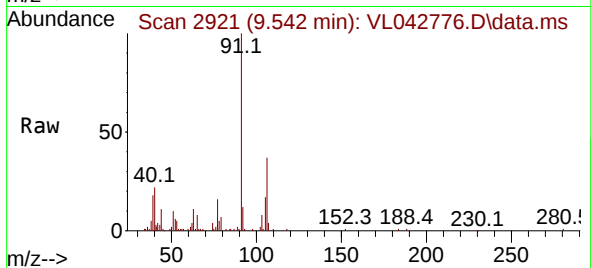
106 47.0 37.4 56.2

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Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#60

o-Xylene

Concen: 0.245 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.006 min

Lab File: VL042776.D

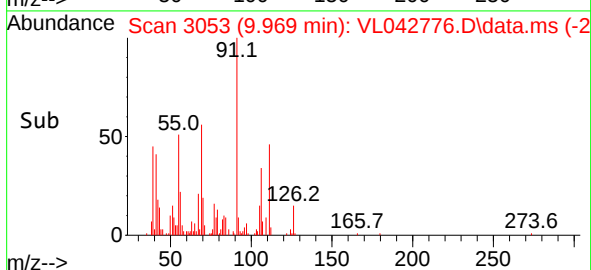
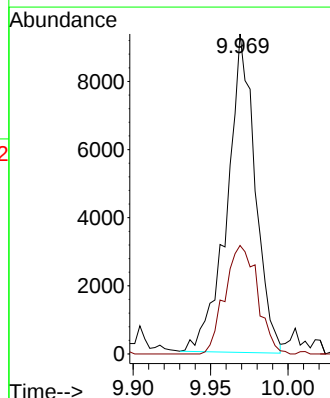
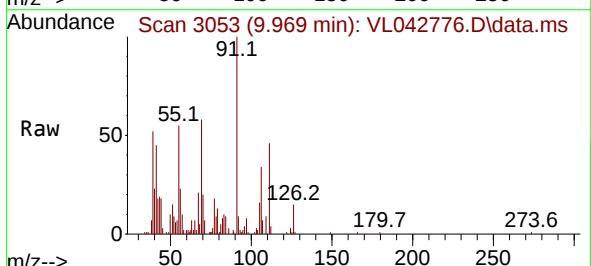
Acq: 29 Jul 2025 10:50

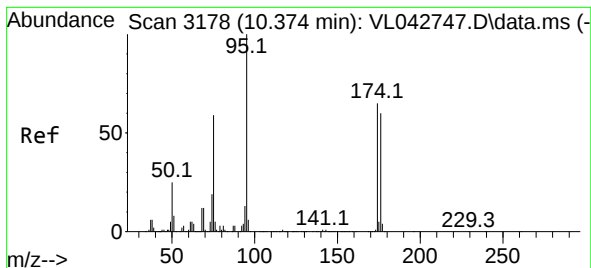
Tgt Ion: 91 Resp: 11841

Ion Ratio Lower Upper

91 100

106 39.7 22.0 66.0





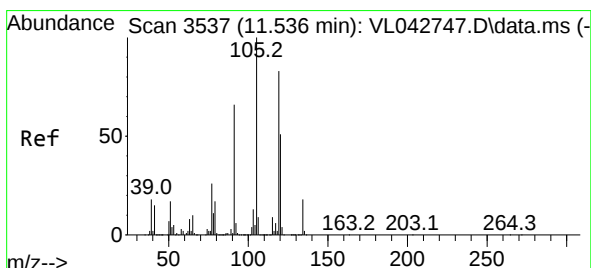
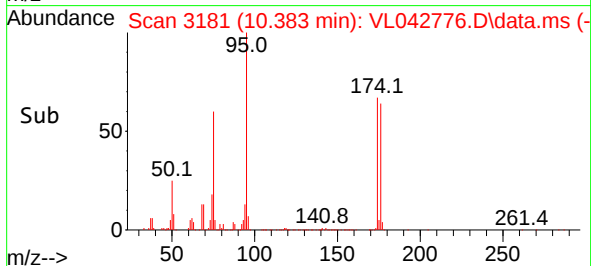
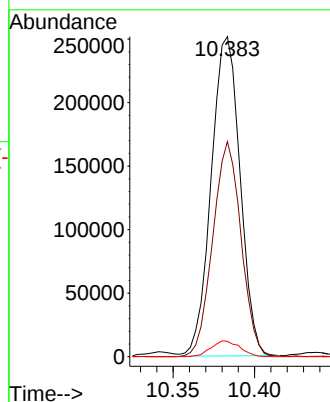
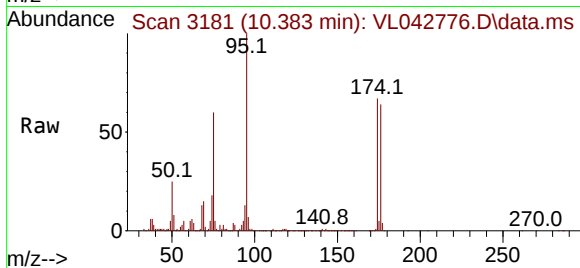
#68
1-Bromo-4-Fluorobenzene
Concen: 10.200 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 30935
Ion Ratio Lower Upper
95 100
174 66.2 53.8 80.6
175 5.0 4.0 6.0

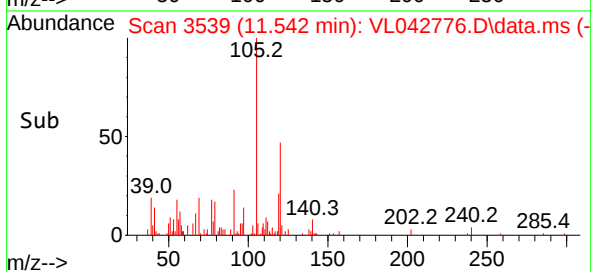
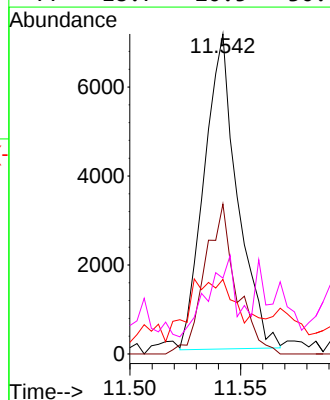
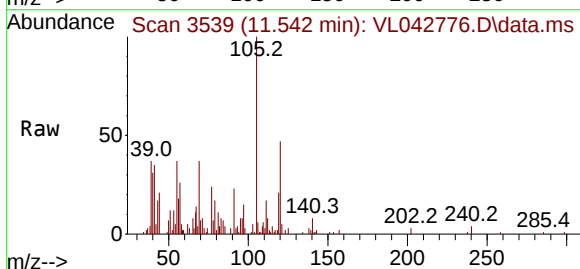
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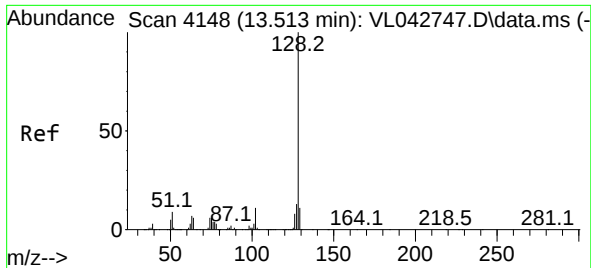
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

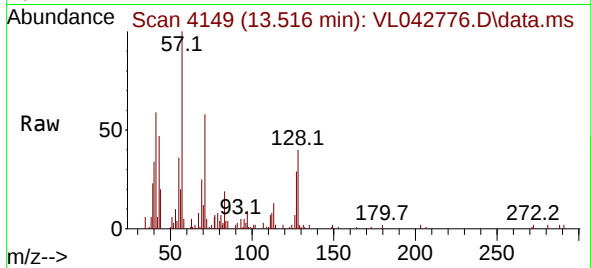
Tgt Ion:105 Resp: 7384
Ion Ratio Lower Upper
105 100
120 47.8 40.8 61.2
91 12.8 53.0 79.4#
77 18.7 20.5 30.7#





#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion	Ratio	Lower	Upper
128	100		
127	73.3	10.5	15.7
129	6.0	8.6	13.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

