

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042858.D
 Acq On : 13 Aug 2025 18:58
 Operator : SY/MD
 Sample : Q2794-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:21:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 02:21:00 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	131022	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	395826	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	339500	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	261906	10.286	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8128	0.423	ppbv	96
3) Chlorodifluoromethane	1.476	51	6227m	0.293	ppbv	
4) Chloromethane	1.532	50	3462	0.447	ppbv #	81
9) Propene	1.486	41	4738	0.517	ppbv	90
10) Heptane	4.991	43	3447m	0.140	ppbv	
11) Trichlorofluoromethane	1.881	101	3395	0.179	ppbv	86
13) Ethanol	1.726	45	18765	22.389	ppbv	90
15) Acetone	1.839	43	123004	7.097	ppbv	99
19) Isopropyl Alcohol	1.891	45	13946	1.347	ppbv #	1
20) Methylene Chloride	2.066	84	2143	0.295	ppbv #	89
26) Hexane	2.833	57	4761	0.246	ppbv #	53
34) 2-Butanone	2.567	43	16901	0.632	ppbv	97
35) Carbon Tetrachloride	3.774	117	2003	0.073	ppbv #	78
36) Benzene	3.664	78	15732	0.415	ppbv	94
44) 2,2,4-Trimethylpentane	4.652	57	12206m	0.190	ppbv	
53) Toluene	6.950	91	20514	0.455	ppbv	97
59) m/p-Xylene	9.539	91	9942m	0.212	ppbv	
61) Styrene	9.882	104	2278m	0.103	ppbv	

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

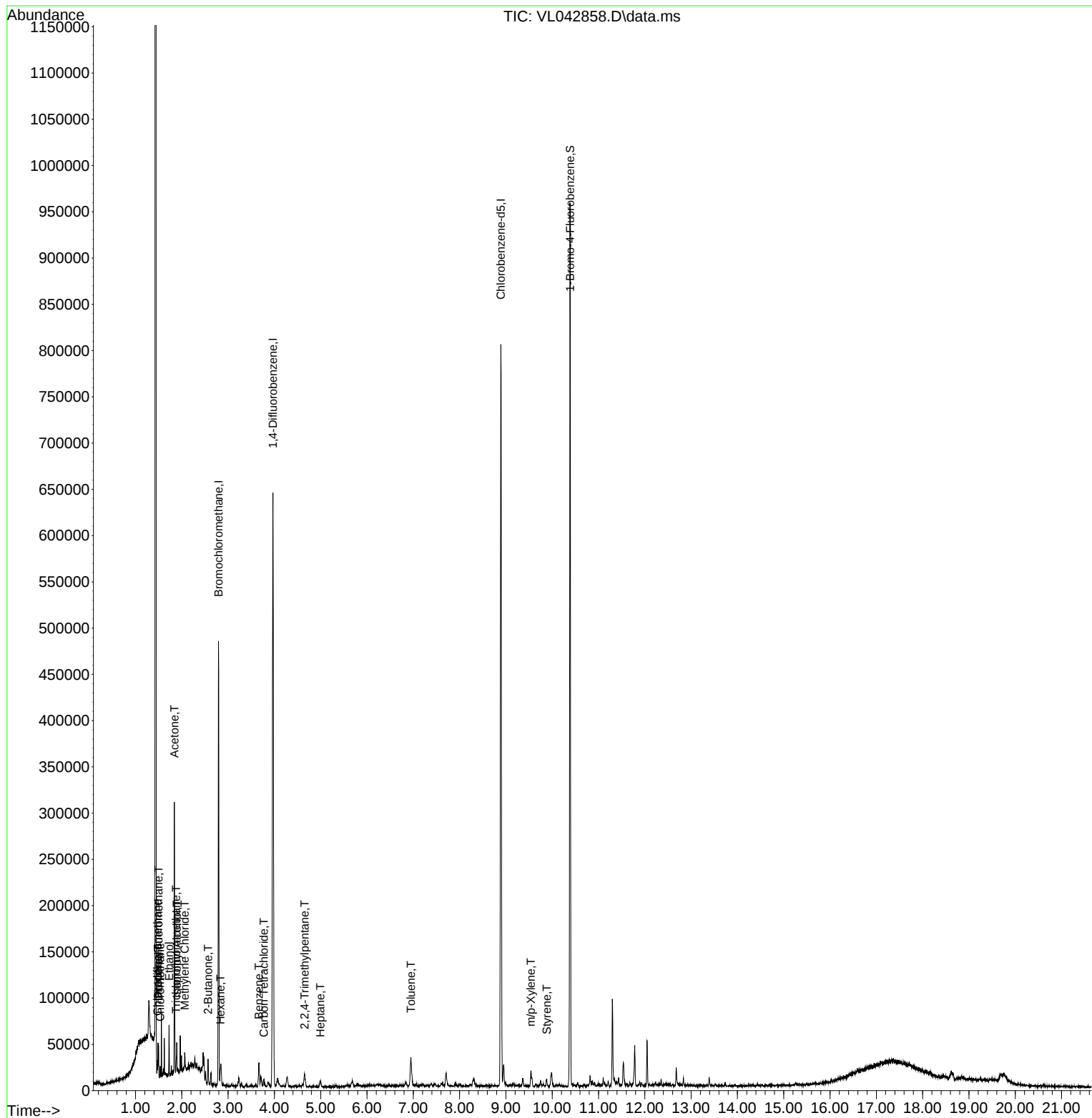
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042858.D
Acq On : 13 Aug 2025 18:58
Operator : SY/MD
Sample : Q2794-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

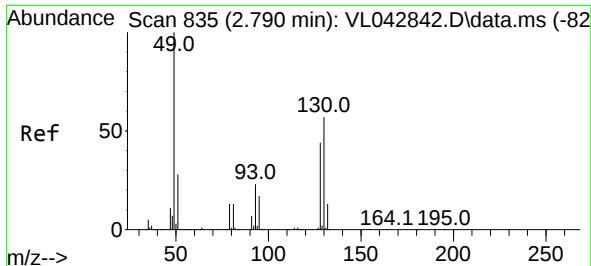
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Aug 14 02:21:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

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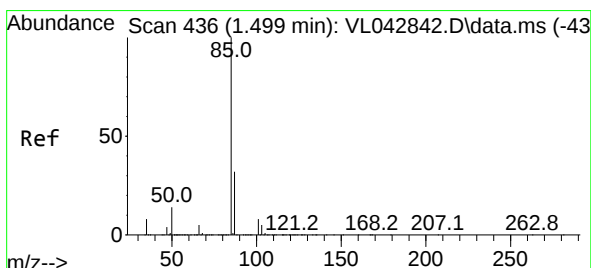
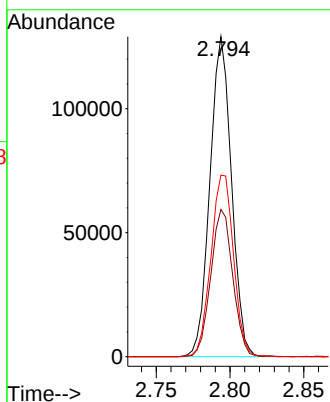
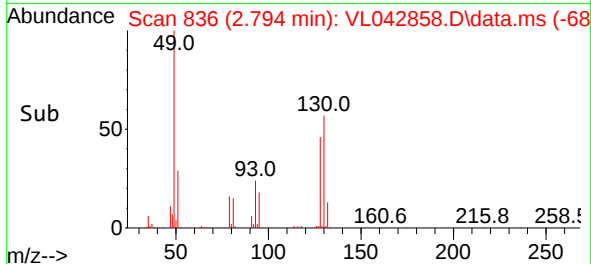
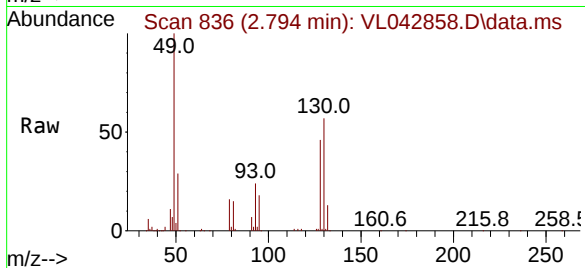
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 13102
Ion Ratio Lower Upper
49 100
128 47.1 23.7 71.1
130 59.7 30.6 91.6

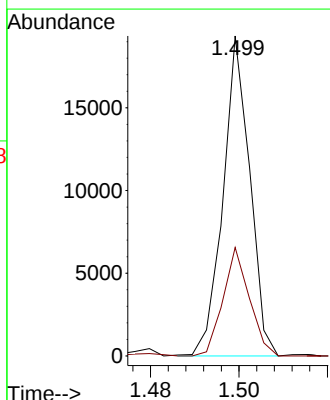
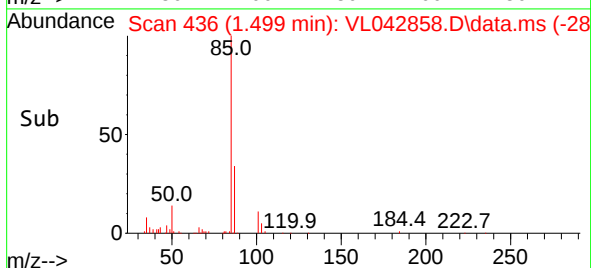
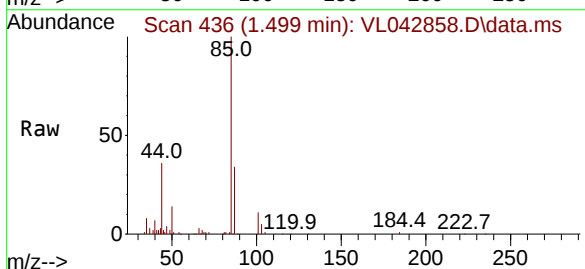
Manual Integrations
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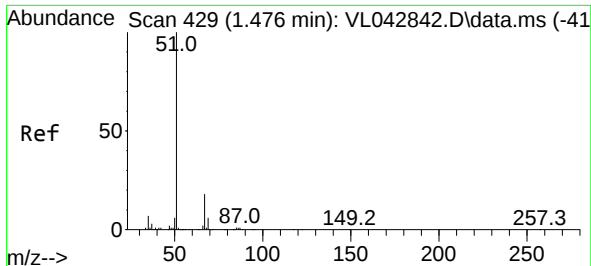
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

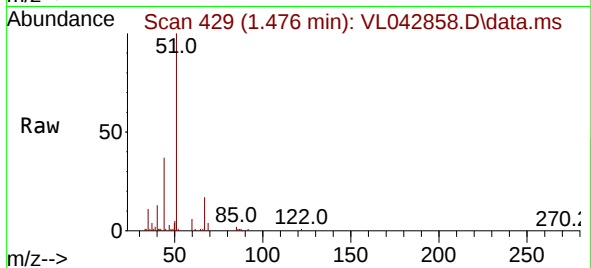
Tgt Ion: 85 Resp: 8128
Ion Ratio Lower Upper
85 100
87 33.9 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.293 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

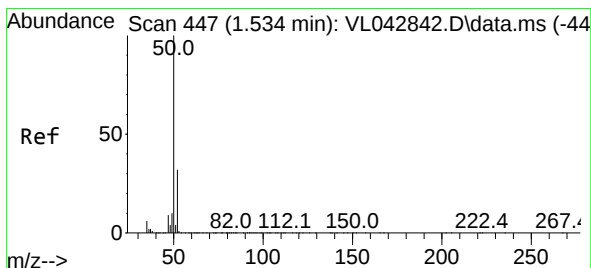
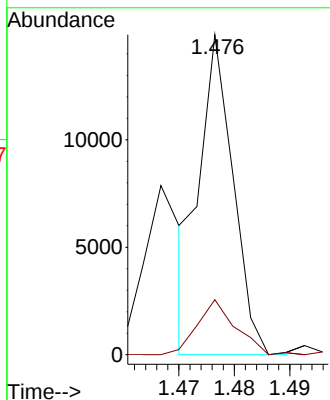
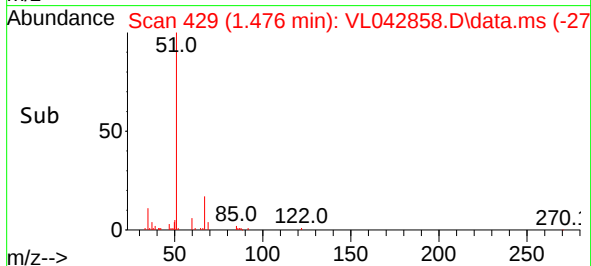
Instrument :
MSVOA_L
ClientSampleId :
OA1



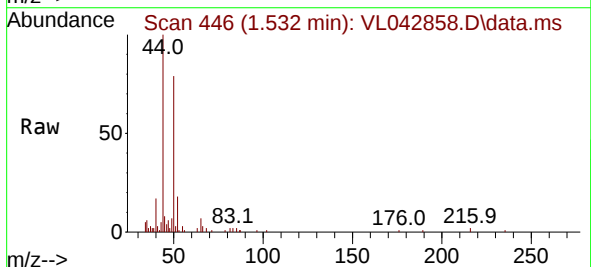
Tgt Ion: 51 Resp: 622
Ion Ratio Lower Upper
51 100
67 20.7 14.9 22.3

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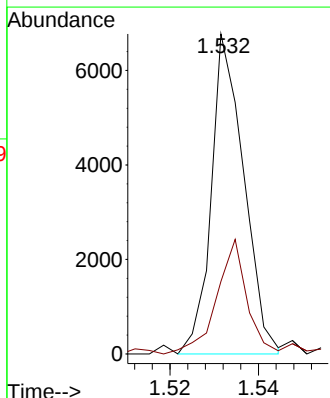
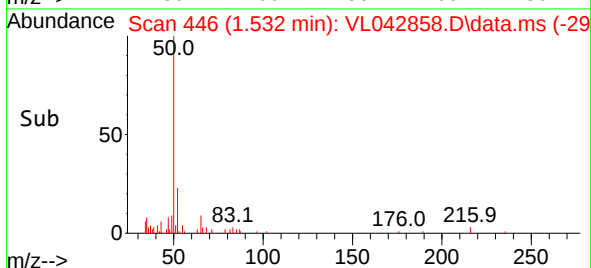
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

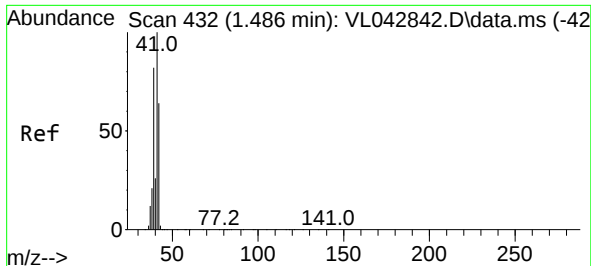


#4
Chloromethane
Concen: 0.447 ppbv
RT: 1.532 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58



Tgt Ion: 50 Resp: 3462
Ion Ratio Lower Upper
50 100
52 21.6 25.9 38.9#





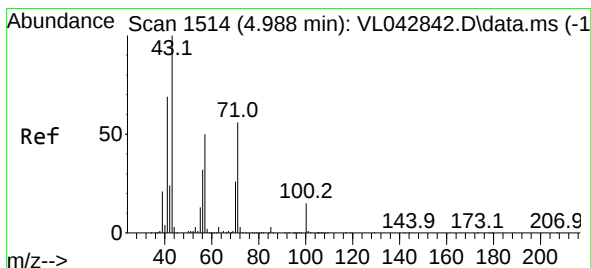
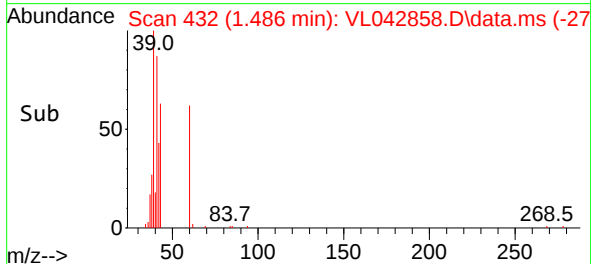
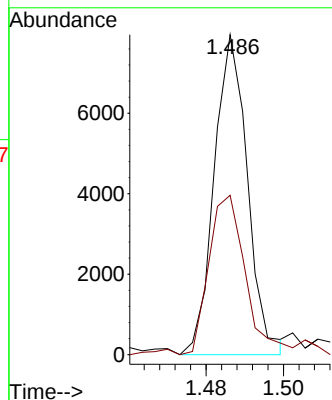
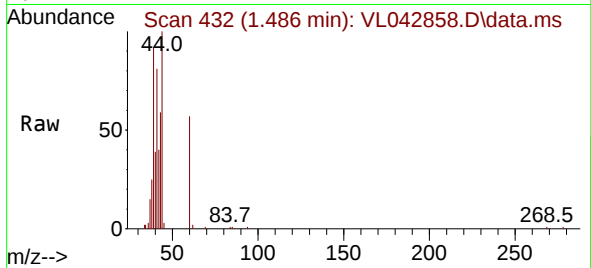
#9
 Propene
 Concen: 0.517 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042858.D
 Acq: 13 Aug 2025 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 41 Resp: 4738
 Ion Ratio Lower Upper
 41 100
 42 58.3 53.0 79.4

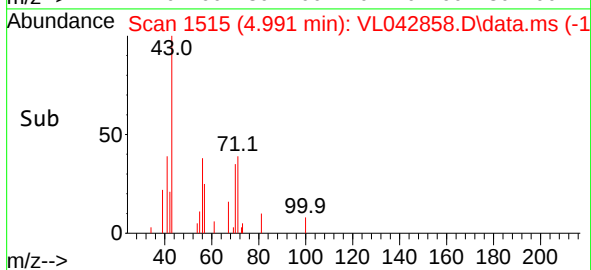
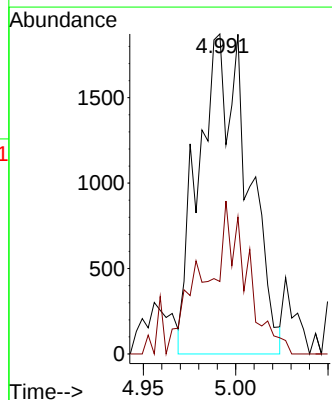
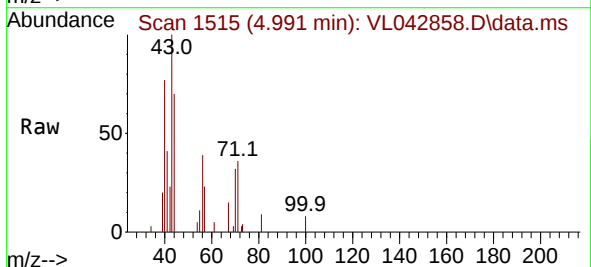
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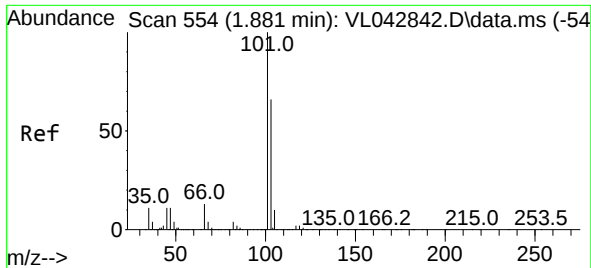
Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025



#10
 Heptane
 Concen: 0.140 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.004 min
 Lab File: VL042858.D
 Acq: 13 Aug 2025 18:58

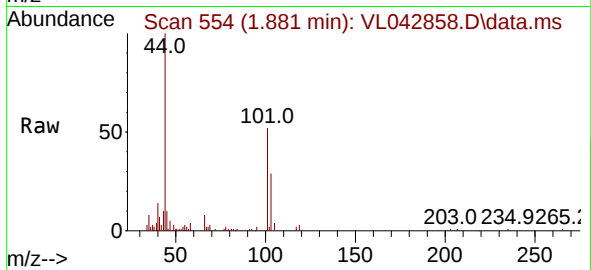
Tgt Ion: 43 Resp: 3447
 Ion Ratio Lower Upper
 43 100
 57 43.6 41.4 62.0





#11
Trichlorofluoromethane
Concen: 0.179 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

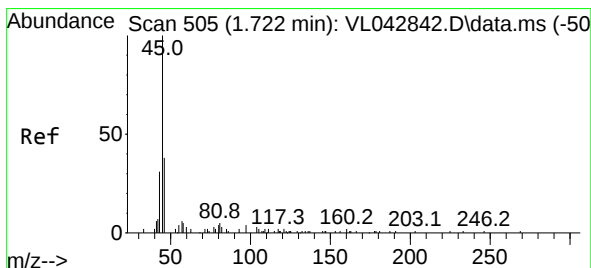
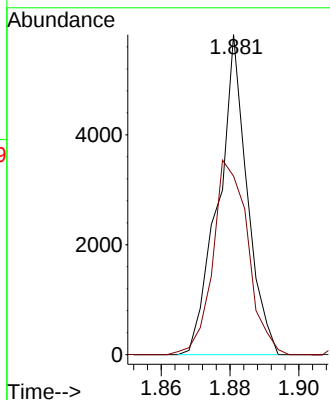
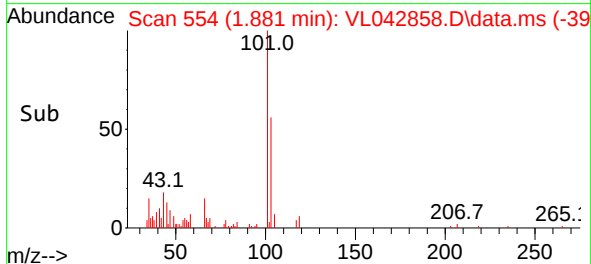
Instrument :
MSVOA_L
ClientSampleId :
OA1



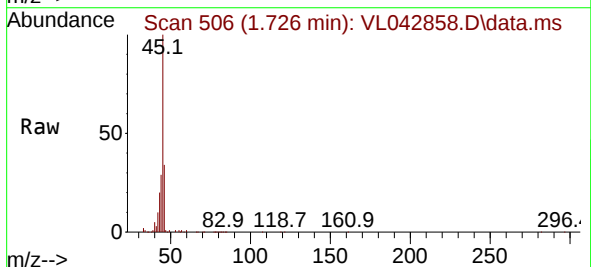
Tgt Ion:101 Resp: 339
Ion Ratio Lower Upper
101 100
103 54.9 52.5 78.7

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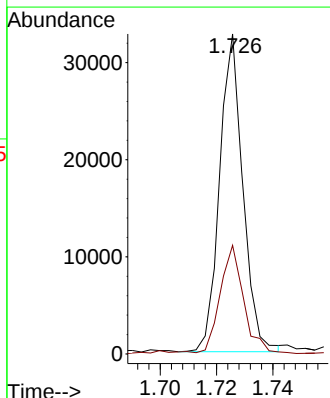
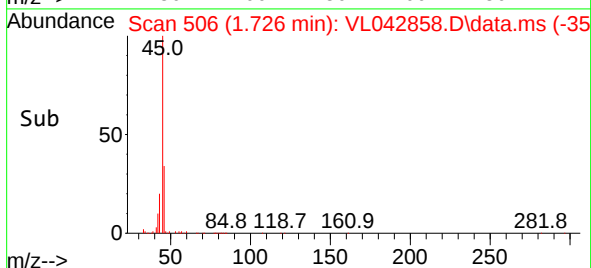
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

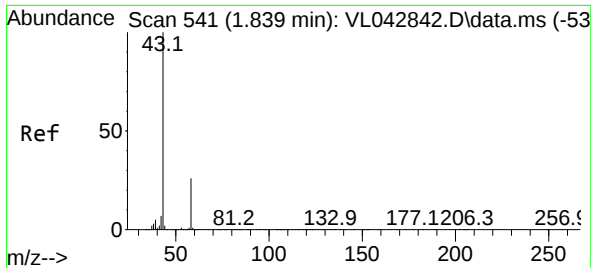


#13
Ethanol
Concen: 22.389 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58



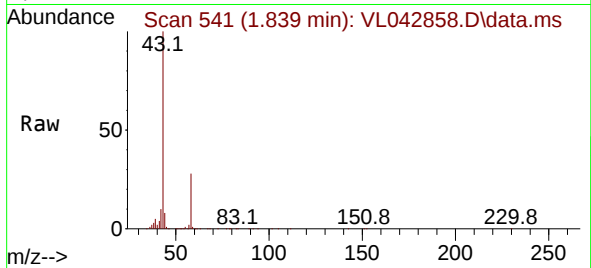
Tgt Ion: 45 Resp: 18765
Ion Ratio Lower Upper
45 100
46 37.4 17.5 69.9





#15
Acetone
Concen: 7.097 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

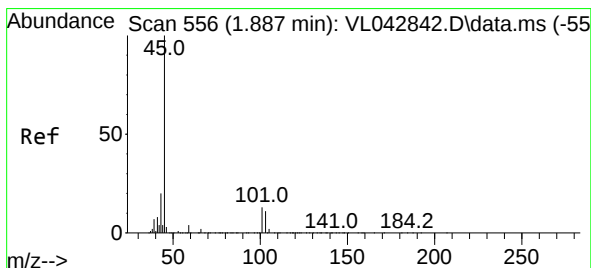
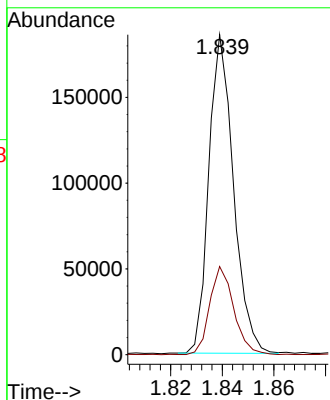
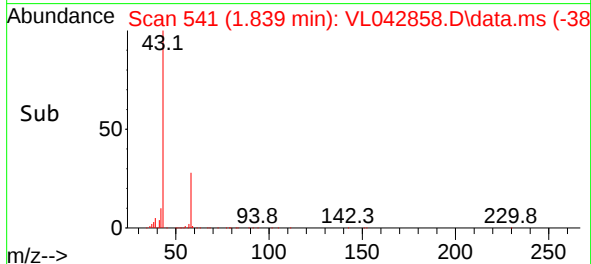
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 123004
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

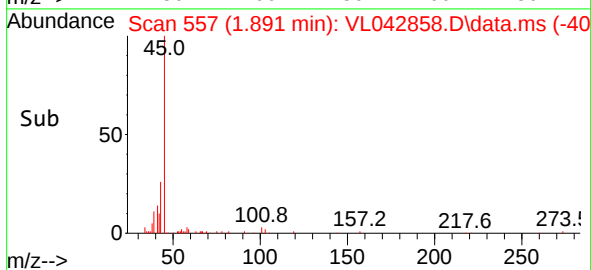
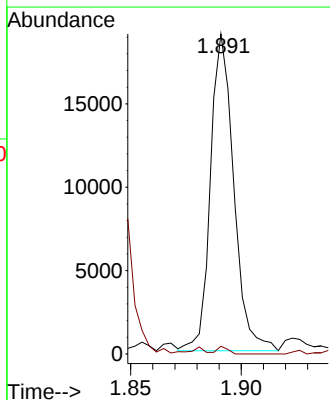
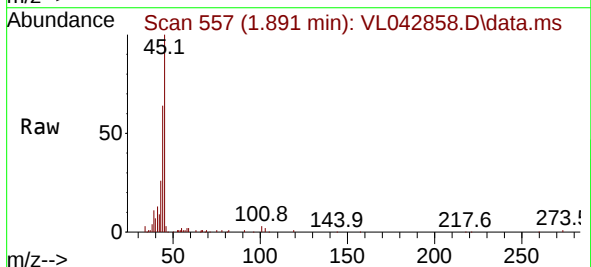
Manual Integrations
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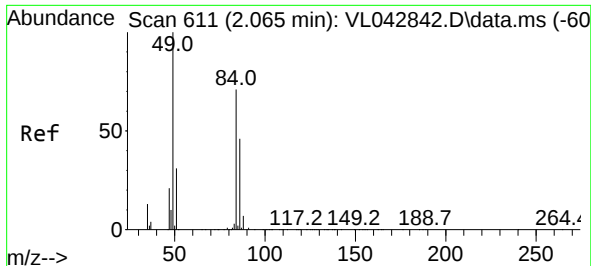
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#19
Isopropyl Alcohol
Concen: 1.347 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 45 Resp: 13946
Ion Ratio Lower Upper
45 100
58 243.0 32.7 49.1#





#20

Methylene Chloride

Concen: 0.295 ppbv

RT: 2.066 min Scan# 611

Delta R.T. 0.000 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

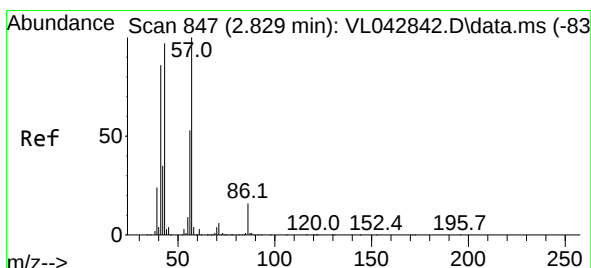
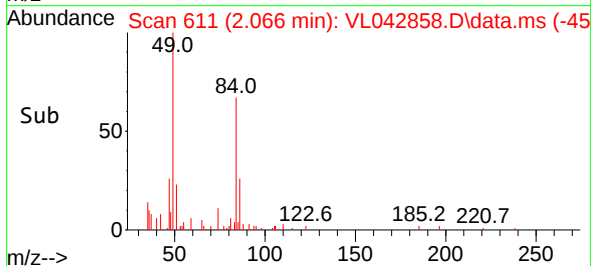
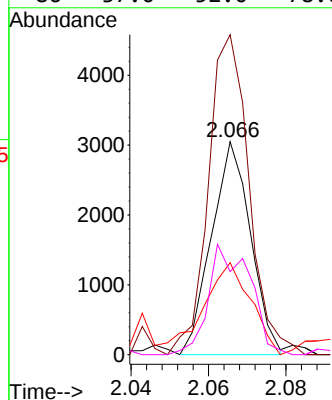
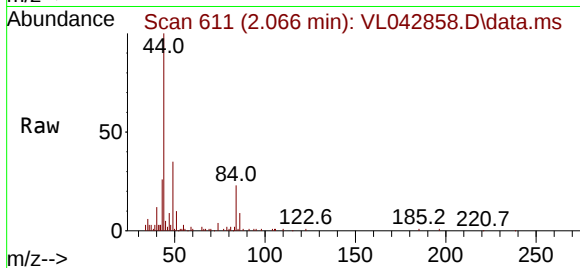
OA1

Tgt Ion:	84	Resp:	214
Ion	Ratio	Lower	Upper
84	100		
49	142.2	112.3	168.5
51	43.2	36.0	54.0
86	37.0	52.0	78.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#26

Hexane

Concen: 0.246 ppbv

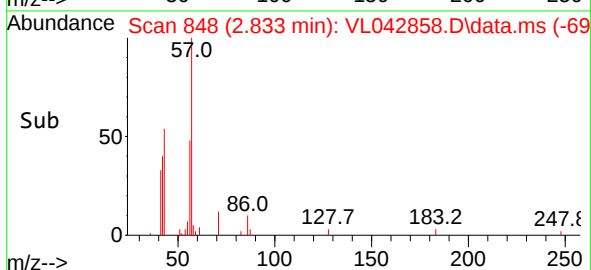
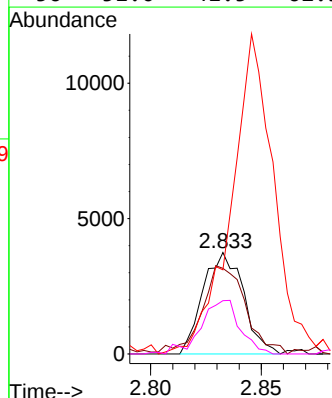
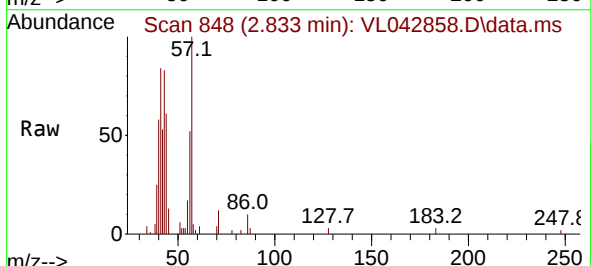
RT: 2.833 min Scan# 848

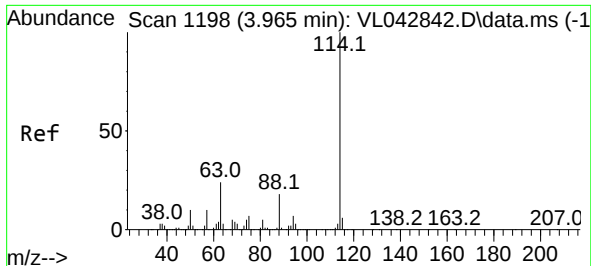
Delta R.T. 0.004 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Tgt Ion:	57	Resp:	4761
Ion	Ratio	Lower	Upper
57	100		
41	96.7	68.6	103.0
43	324.9	168.5	252.7
56	51.0	41.5	62.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. 0.004 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

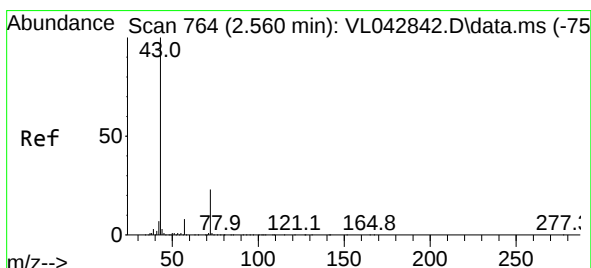
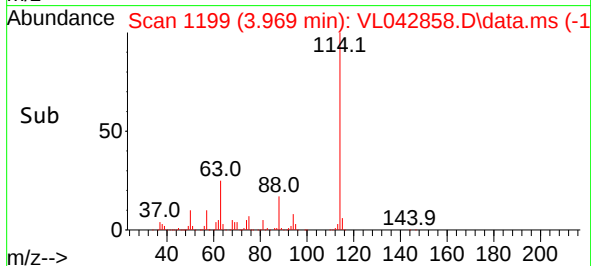
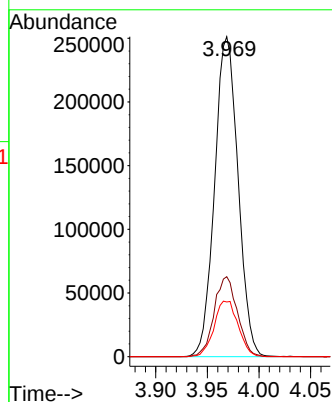
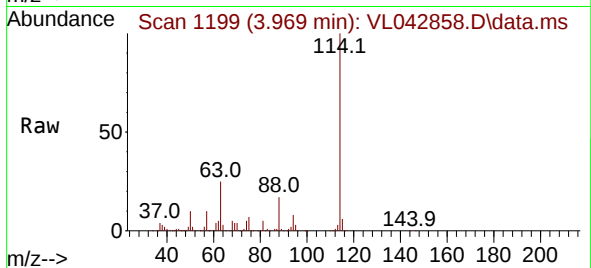
OA1

Tgt Ion:114	Resp:	395820
Ion Ratio	Lower	Upper
114	100	
63	24.9	19.7 29.5
88	17.9	14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 0.632 ppbv

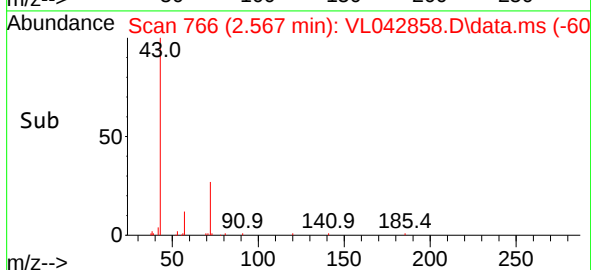
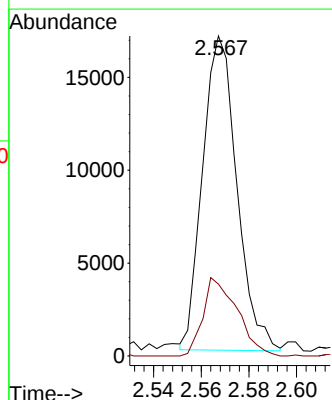
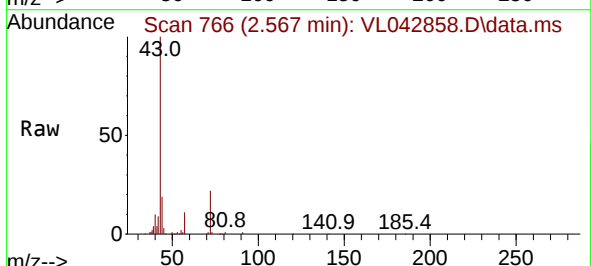
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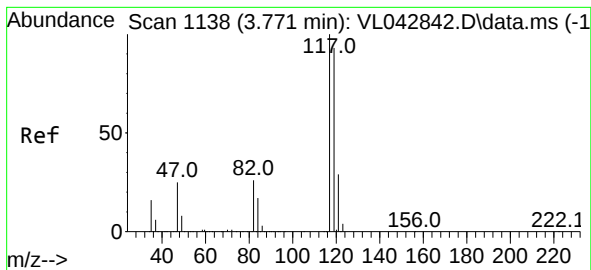
Delta R.T. 0.007 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

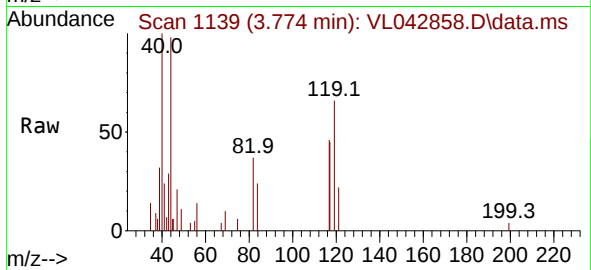
Tgt Ion: 43	Resp:	16901
Ion Ratio	Lower	Upper
43	100	
72	24.9	18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.073 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

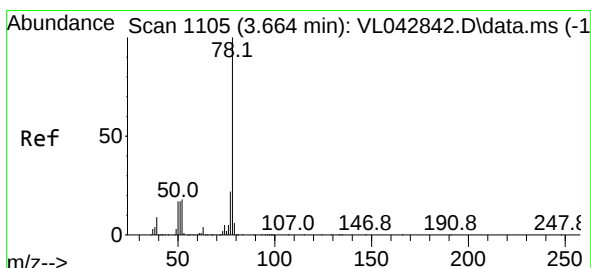
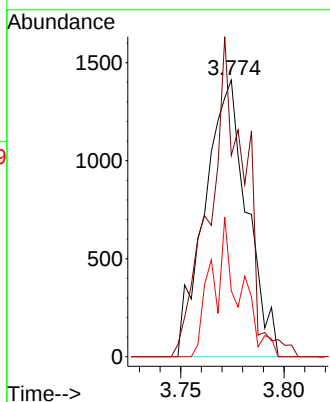
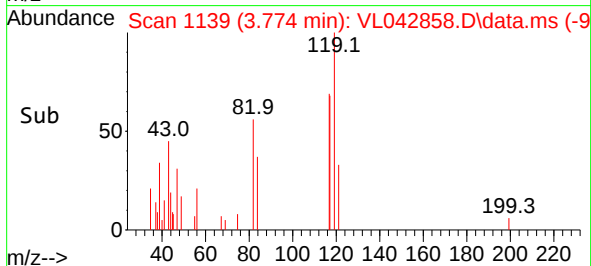
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 117 Resp: 2000
Ion Ratio Lower Upper
117 100
119 68.4 74.7 112.1
121 23.8 23.2 34.8

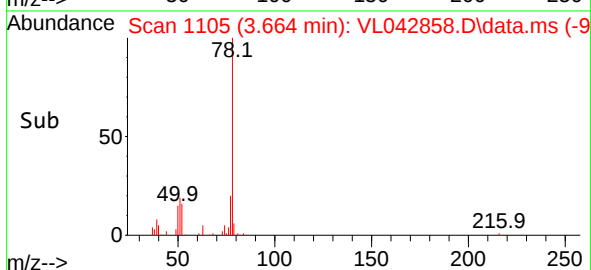
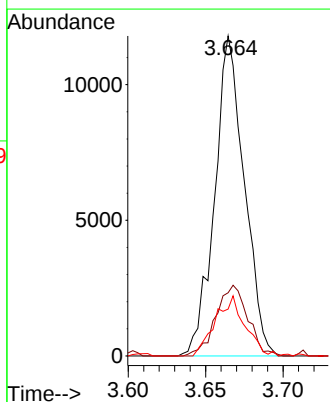
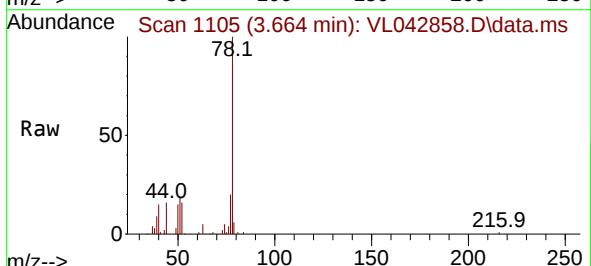
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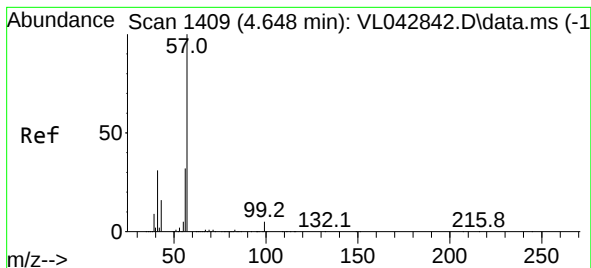
Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#36
Benzene
Concen: 0.415 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 78 Resp: 15732
Ion Ratio Lower Upper
78 100
77 19.8 17.7 26.5
50 14.6 13.9 20.9





#44

2,2,4-Trimethylpentane

Concen: 0.190 ppbv m

RT: 4.652 min Scan# 1409

Delta R.T. 0.004 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

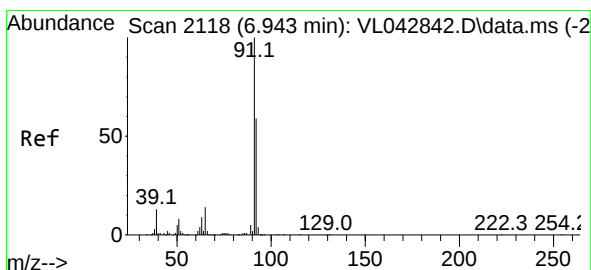
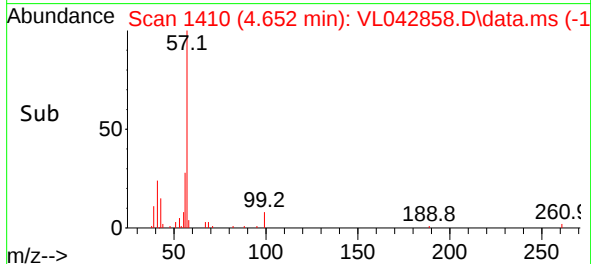
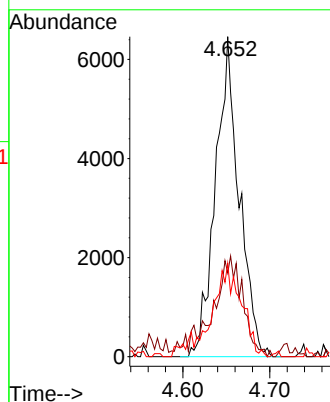
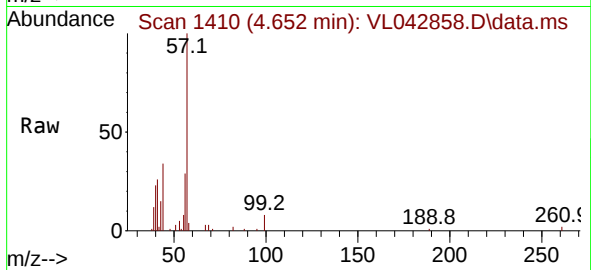
Tgt Ion:	57	Resp:	12200
Ion	Ratio	Lower	Upper
57	100		
41	40.7	24.8	37.2
56	37.8	25.5	38.3

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#53

Toluene

Concen: 0.455 ppbv

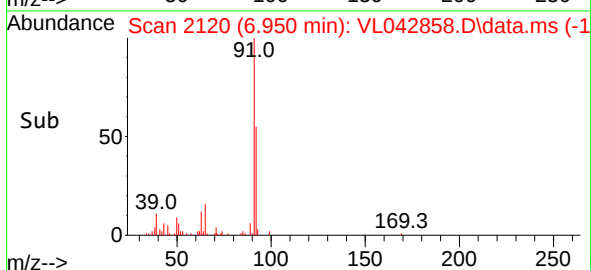
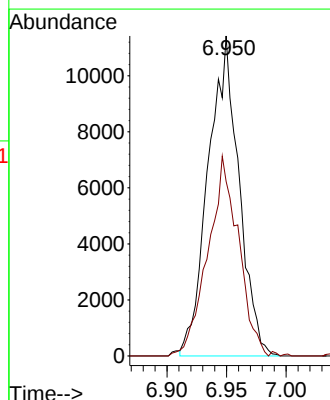
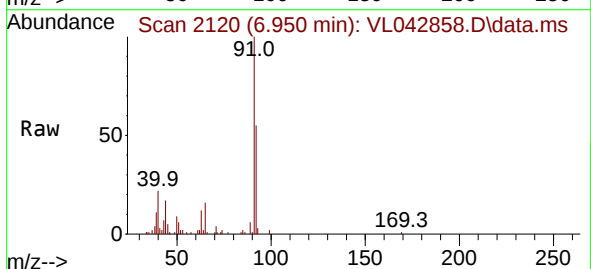
RT: 6.950 min Scan# 2120

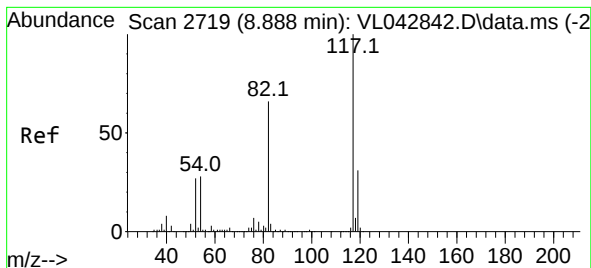
Delta R.T. 0.007 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Tgt Ion:	91	Resp:	20514
Ion	Ratio	Lower	Upper
91	100		
92	62.2	47.8	71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.892 min Scan# 21

Delta R.T. 0.004 min

Lab File: VL042858.D

Acq: 13 Aug 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:117 Resp: 339500

Ion Ratio Lower Upper

117 100

82 66.6 54.6 81.8

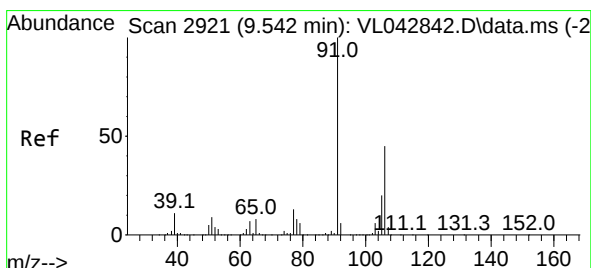
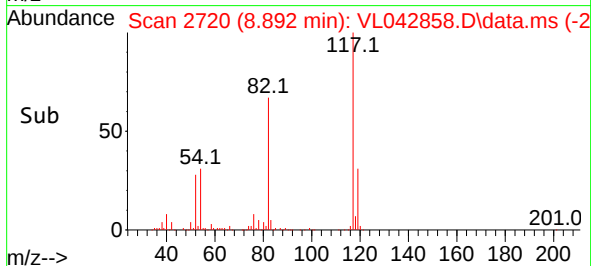
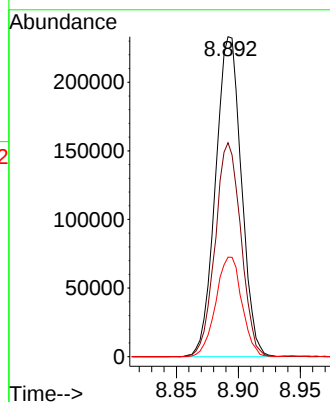
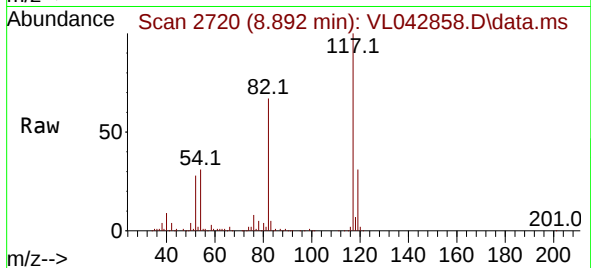
119 31.6 25.9 38.9

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#59

m/p-Xylene

Concen: 0.212 ppbv m

RT: 9.539 min Scan# 2920

Delta R.T. -0.003 min

Lab File: VL042858.D

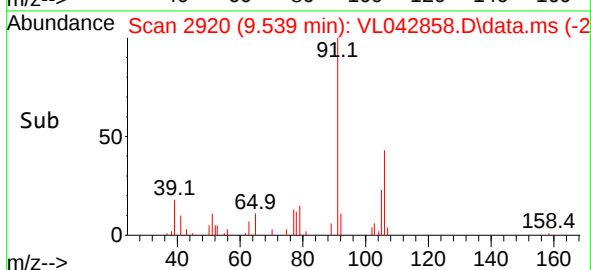
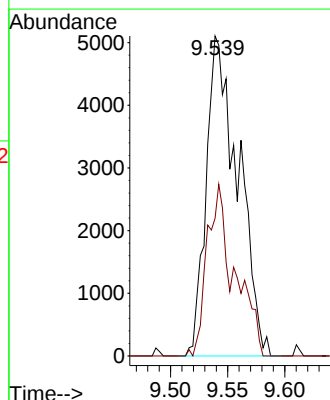
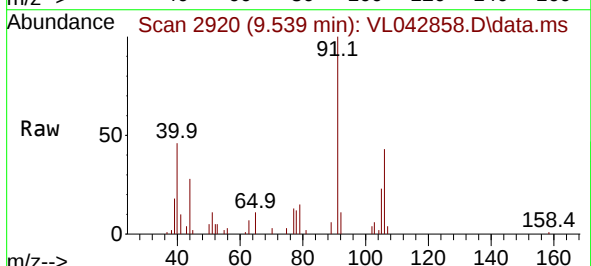
Acq: 13 Aug 2025 18:58

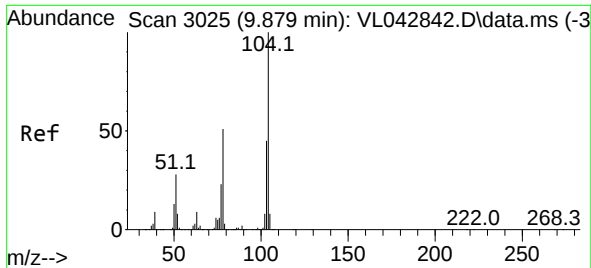
Tgt Ion: 91 Resp: 9942

Ion Ratio Lower Upper

91 100

106 46.3 0.0 0.0#





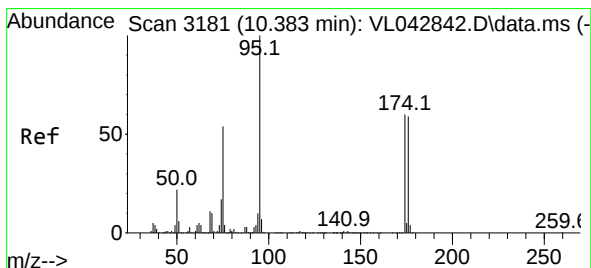
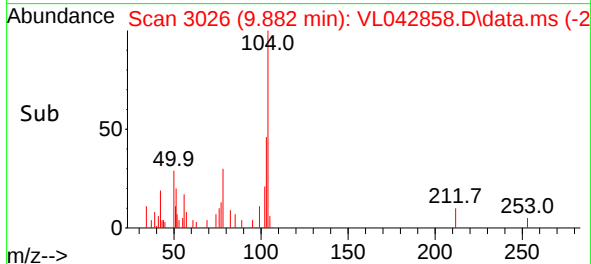
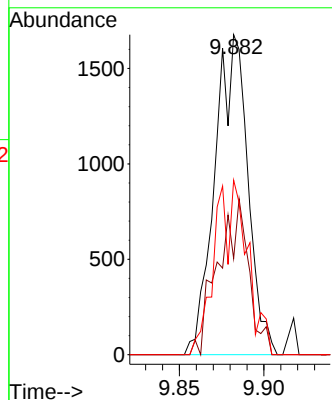
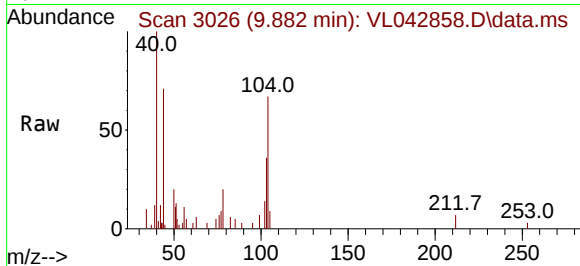
#61
Styrene
Concen: 0.103 ppbv m
RT: 9.882 min Scan# 3025
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:104 Resp: 2278
Ion Ratio Lower Upper
104 100
78 44.9 40.6 61.0
103 53.5 37.7 56.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.286 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.004 min
Lab File: VL042858.D
Acq: 13 Aug 2025 18:58

Tgt Ion: 95 Resp: 261906
Ion Ratio Lower Upper
95 100
174 56.0 48.4 72.6
175 4.2 3.8 5.8

