

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043165.D
 Acq On : 06 Nov 2025 13:50
 Operator : SY/MD
 Sample : Q3557-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:22:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113035	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	330913	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	283774	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	229122	10.388	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	32908	2.048	ppbv	97
3) Chlorodifluoromethane	1.476	51	5130m	0.295	ppbv	
4) Chloromethane	1.531	50	2999	0.471	ppbv	91
9) Propene	1.489	41	32726m	4.244	ppbv	
10) Heptane	4.972	43	5746m	0.259	ppbv	
11) Trichlorofluoromethane	1.878	101	5581	0.355	ppbv	99
13) Ethanol	1.719	45	103305	36.217	ppbv	100
15) Acetone	1.842	43	193426m	12.696	ppbv	
19) Isopropyl Alcohol	1.887	45	10103	1.065	ppbv #	1
20) Methylene Chloride	2.062	84	3972	0.660	ppbv #	86
26) Hexane	2.826	57	47767	2.744	ppbv #	41
30) Cyclohexane	3.855	84	5306	0.349	ppbv #	91
34) 2-Butanone	2.557	43	13607	0.612	ppbv	97
35) Carbon Tetrachloride	3.764	117	2179	0.092	ppbv #	93
36) Benzene	3.654	78	16826	0.540	ppbv	94
44) 2,2,4-Trimethylpentane	4.638	57	25124	0.478	ppbv #	83
53) Toluene	6.933	91	33445	0.904	ppbv	96
58) Ethyl Benzene	9.351	91	7473	0.153	ppbv	99
59) m/p-Xylene	9.532	91	23381m	0.602	ppbv	
60) o-Xylene	9.959	91	9569	0.249	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	6570	0.151	ppbv #	54
79) Naphthalene	13.513	128	12262	0.269	ppbv	97

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

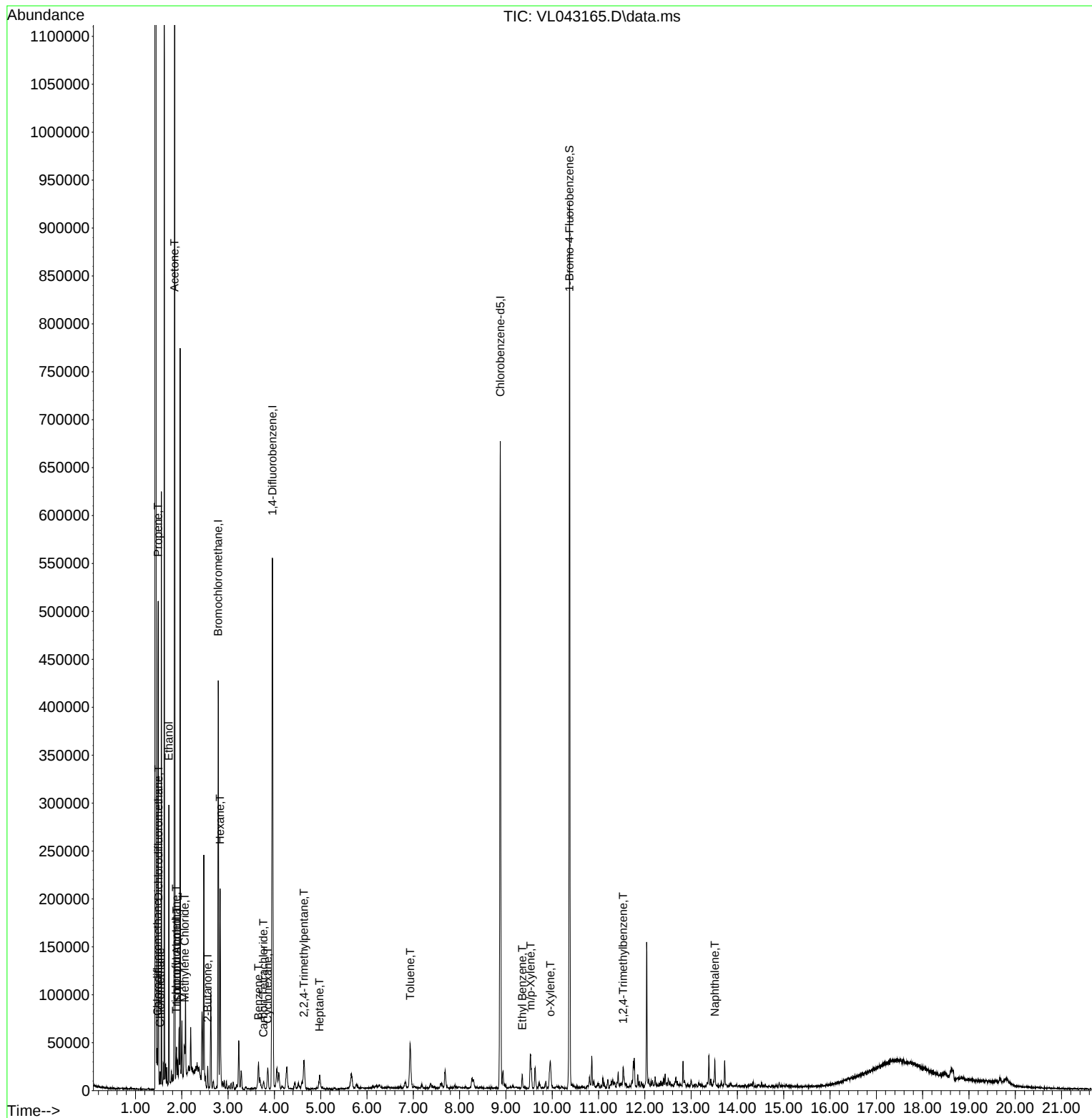
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
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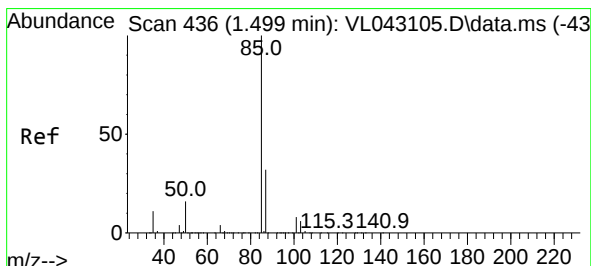
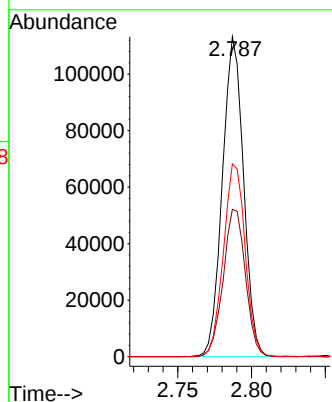
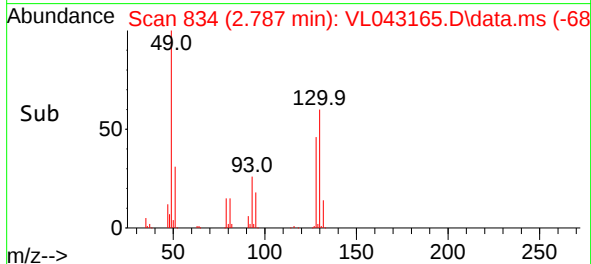
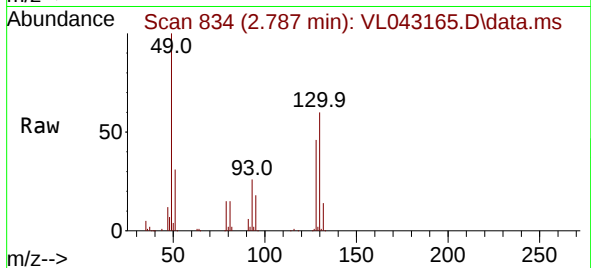
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
141-IA2

Tgt Ion: 49 Resp: 11303
Ion Ratio Lower Upper
49 100
128 48.3 24.4 73.4
130 62.3 31.0 93.0

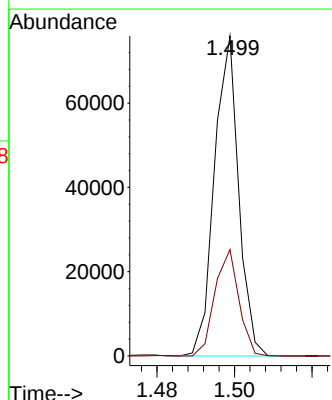
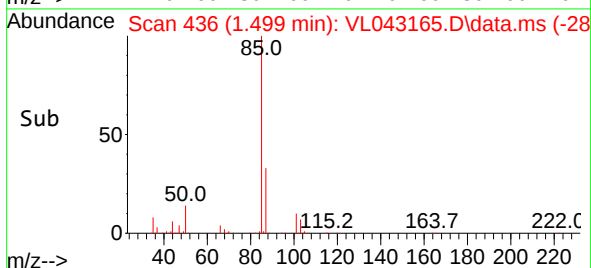
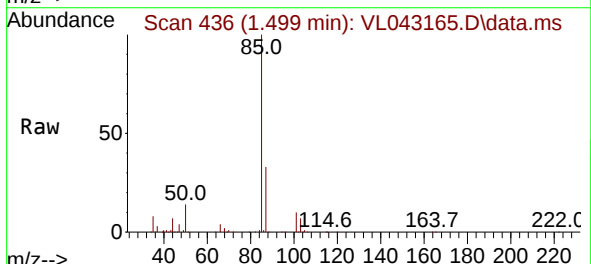
Manual Integrations
APPROVED

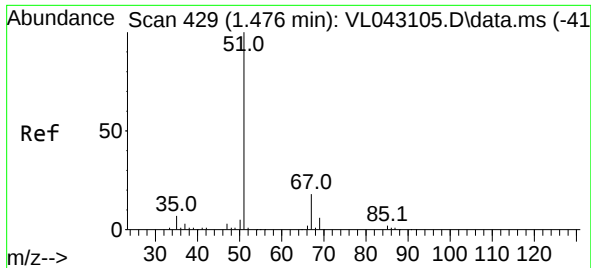
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 2.048 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

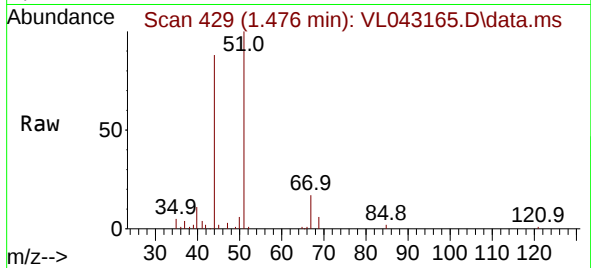
Tgt Ion: 85 Resp: 32908
Ion Ratio Lower Upper
85 100
87 33.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.295 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

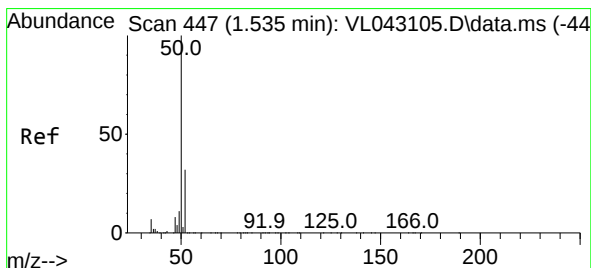
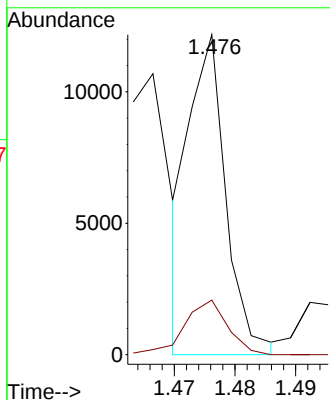
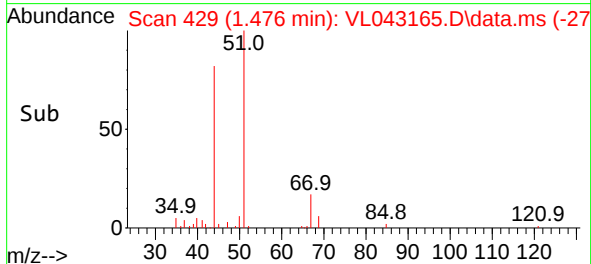
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



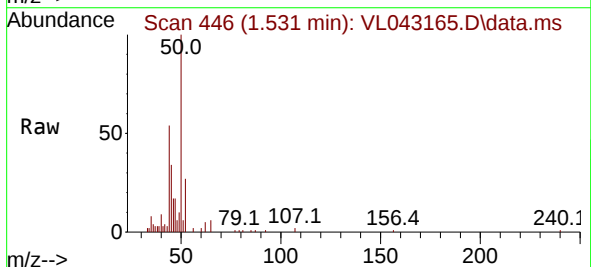
Tgt Ion: 51 Resp: 5130
Ion Ratio Lower Upper
51 100
67 21.1 15.1 22.7

Manual Integrations
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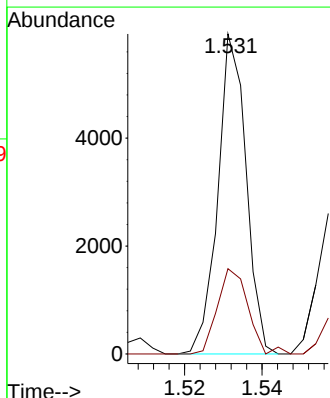
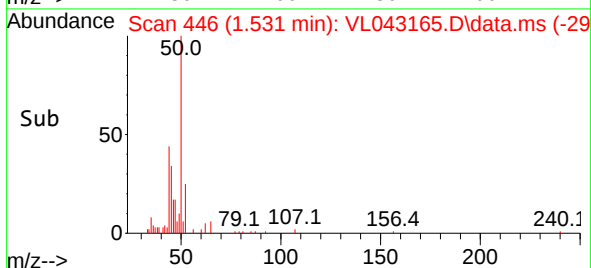
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

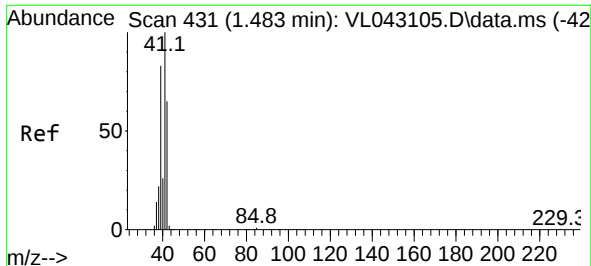


#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50



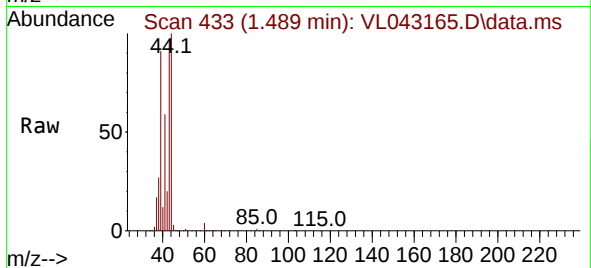
Tgt Ion: 50 Resp: 2999
Ion Ratio Lower Upper
50 100
52 26.6 25.2 37.8





#9
Propene
Concen: 4.244 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

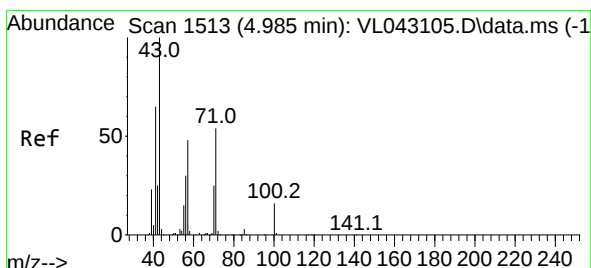
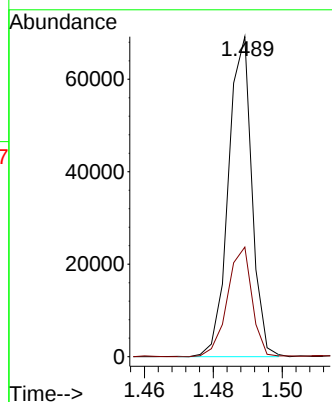
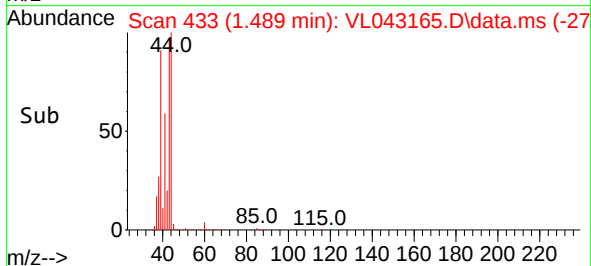
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 41 Resp: 32720
Ion Ratio Lower Upper
41 100
42 137.1 55.1 82.75

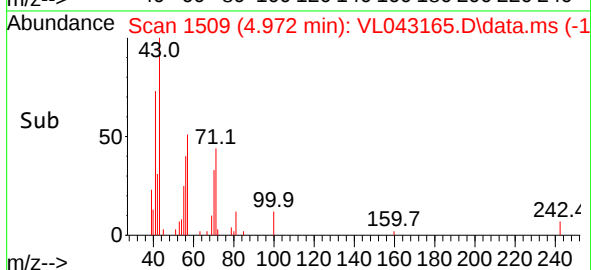
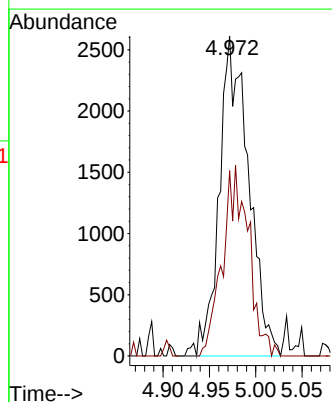
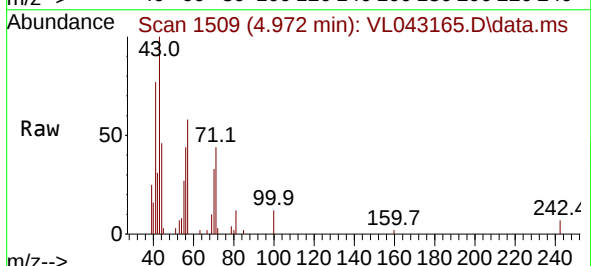
Manual Integrations
APPROVED

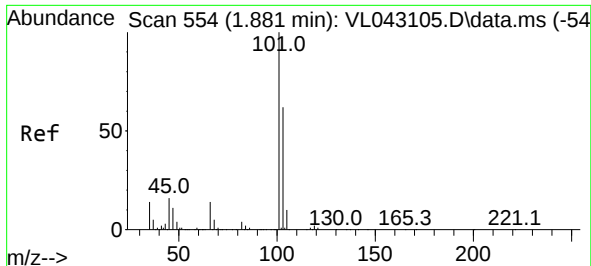
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#10
Heptane
Concen: 0.259 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.013 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

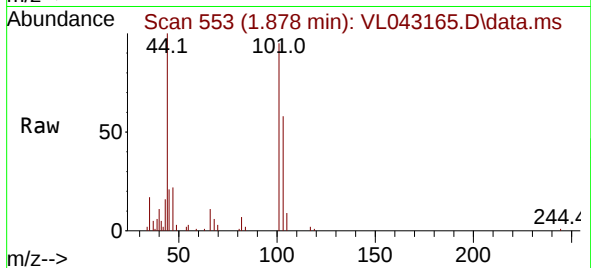
Tgt Ion: 43 Resp: 5746
Ion Ratio Lower Upper
43 100
57 53.1 40.8 61.2





#11
Trichlorofluoromethane
Concen: 0.355 ppbv
RT: 1.878 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

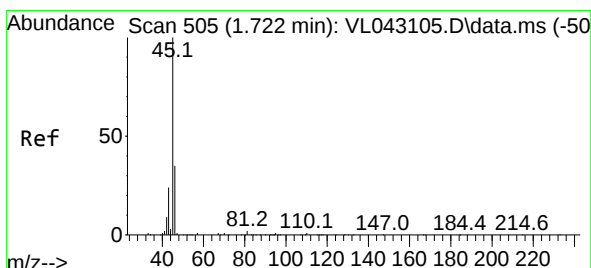
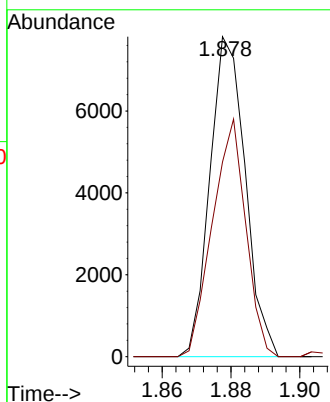
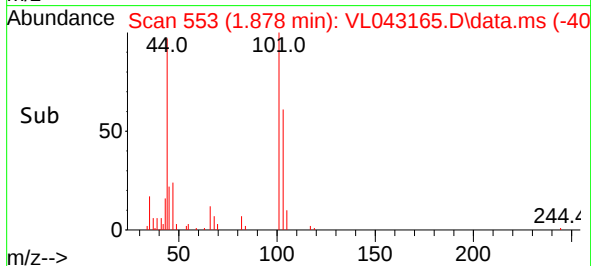
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



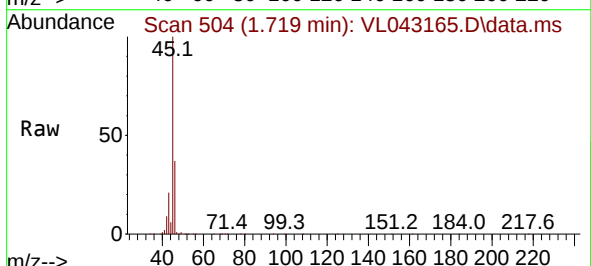
Tgt Ion:101 Resp: 558
Ion Ratio Lower Upper
101 100
103 60.8 49.3 73.9

Manual Integrations
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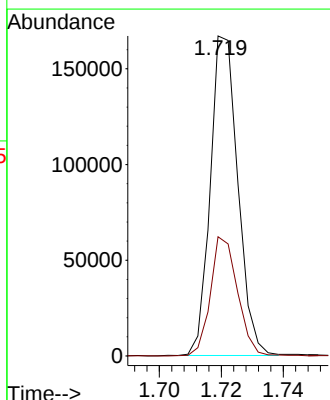
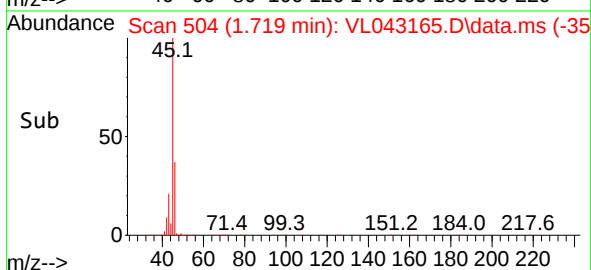
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

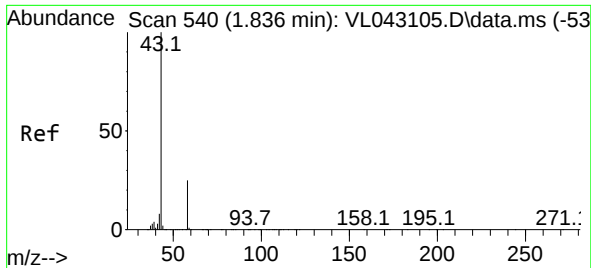


#13
Ethanol
Concen: 36.217 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50



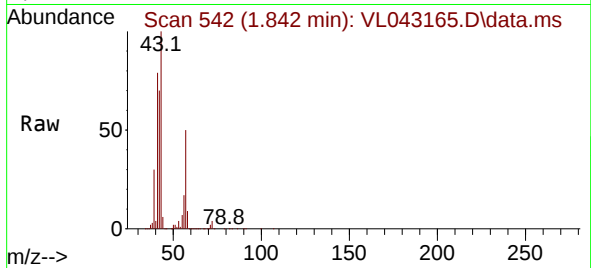
Tgt Ion: 45 Resp: 103305
Ion Ratio Lower Upper
45 100
46 37.1 14.7 58.9





#15
Acetone
Concen: 12.696 ppbv m
RT: 1.842 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

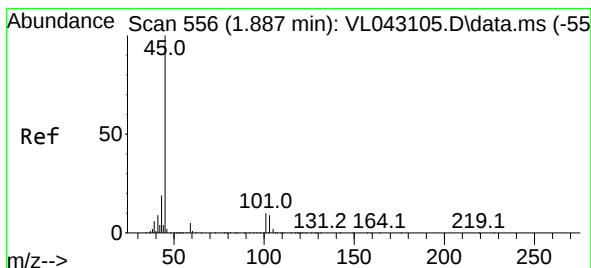
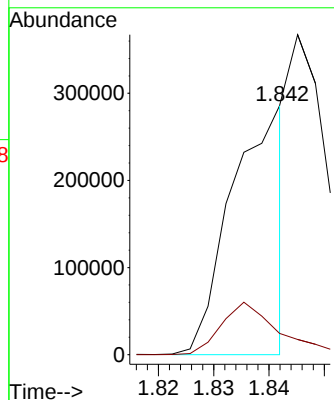
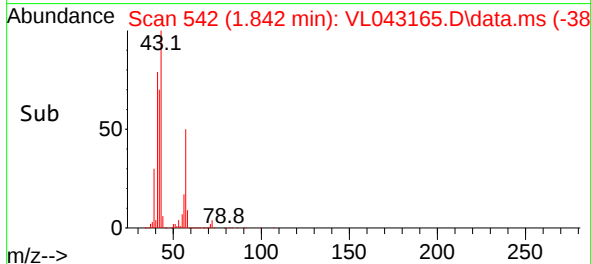
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 43 Resp: 193420
Ion Ratio Lower Upper
43 100
58 22.5 20.8 31.2

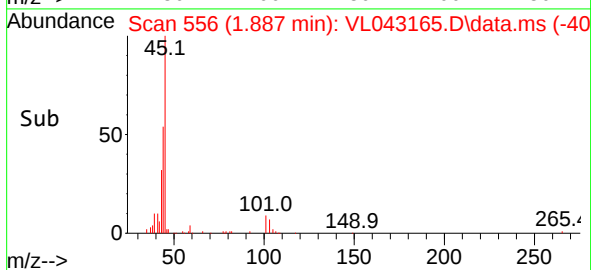
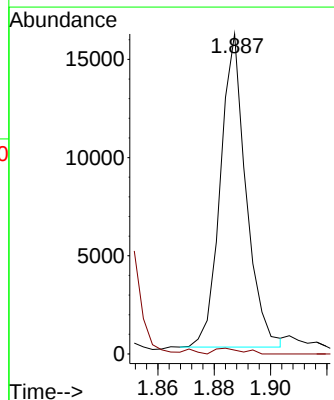
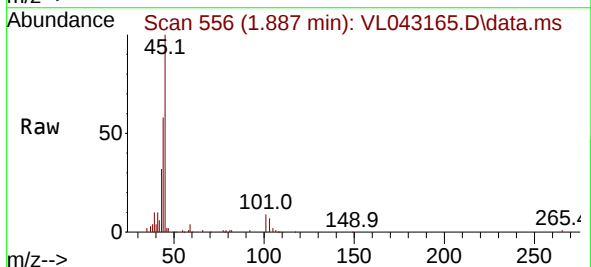
Manual Integrations
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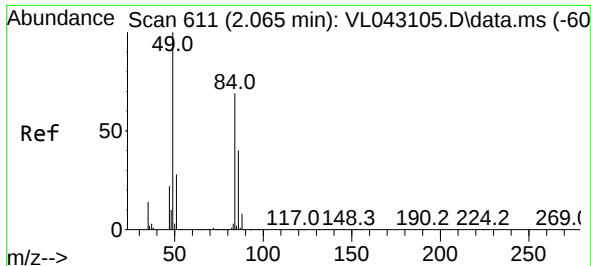
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#19
Isopropyl Alcohol
Concen: 1.065 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 45 Resp: 10103
Ion Ratio Lower Upper
45 100
58 432.0 31.3 46.9#





#20

Methylene Chloride

Concen: 0.660 ppbv

RT: 2.062 min Scan# 611

Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

141-IA2

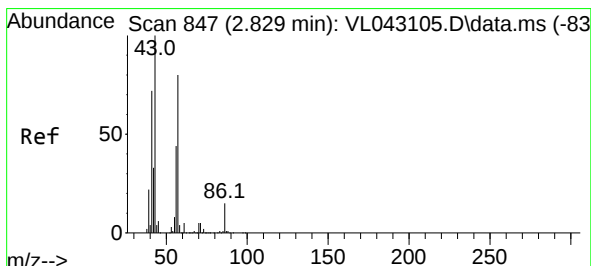
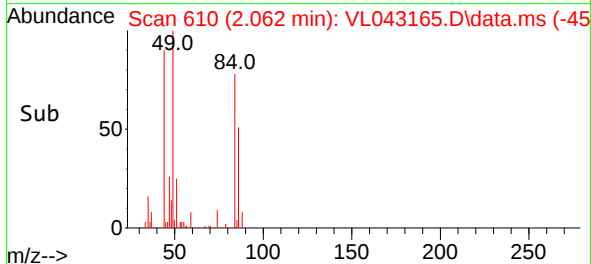
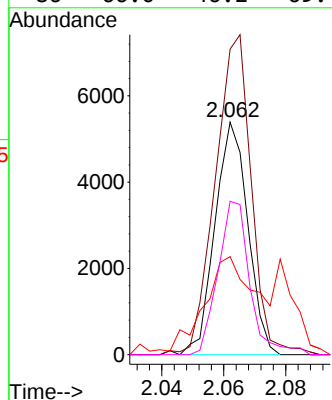
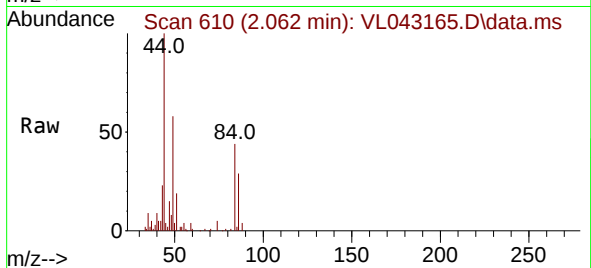
Tgt Ion: 84	Resp: 3972
Ion Ratio	Lower Upper
84 100	
49 130.2	116.6 175.0
51 27.8	34.8 52.2
86 66.0	46.2 69.4

Manual Integrations

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Supervised By :Mahesh Dadoda 11/10/2025



#26

Hexane

Concen: 2.744 ppbv

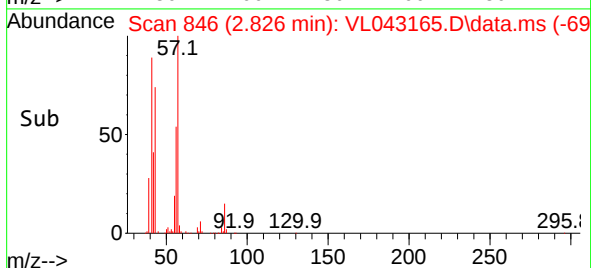
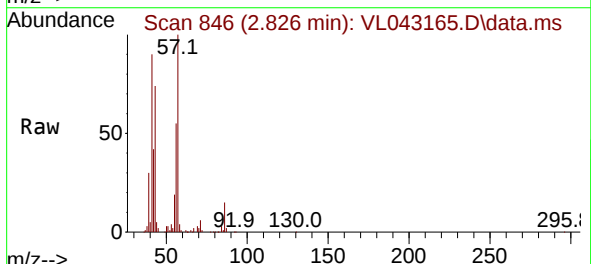
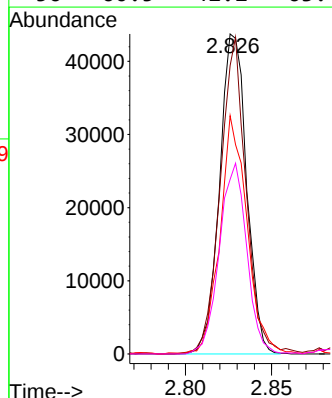
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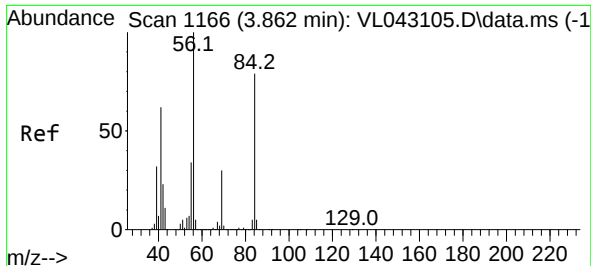
Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

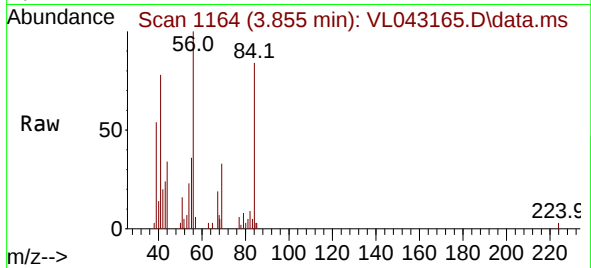
Tgt Ion: 57	Resp: 47767
Ion Ratio	Lower Upper
57 100	
41 95.1	71.4 107.0
43 75.9	178.5 267.7#
56 60.5	42.2 63.4





#30
Cyclohexane
Concen: 0.349 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

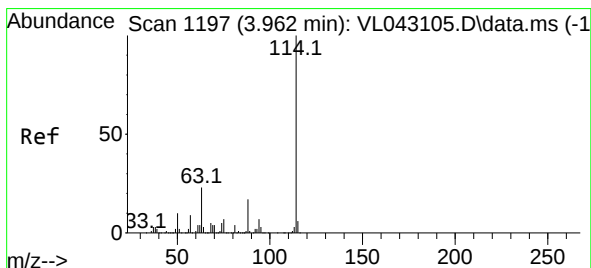
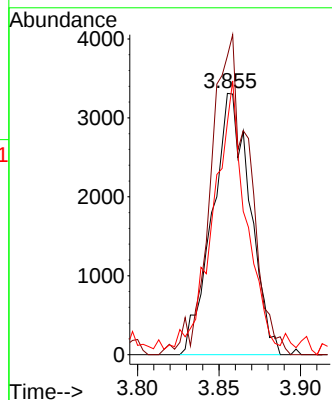
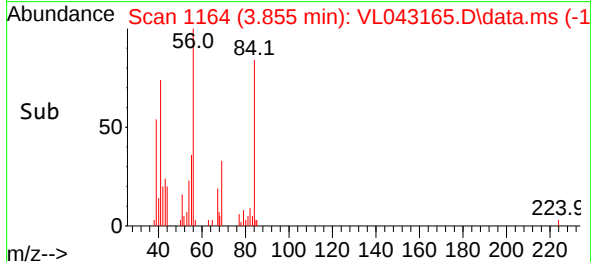
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 84 Resp: 5300
Ion Ratio Lower Upper
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56 124.3 100.9 151.3
41 98.4 63.8 95.6

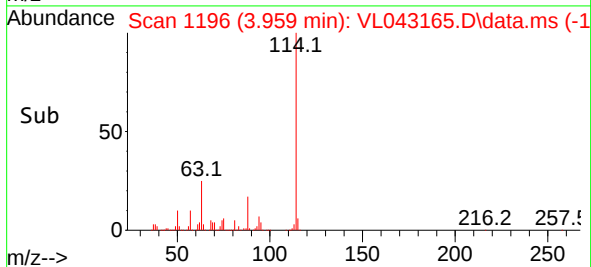
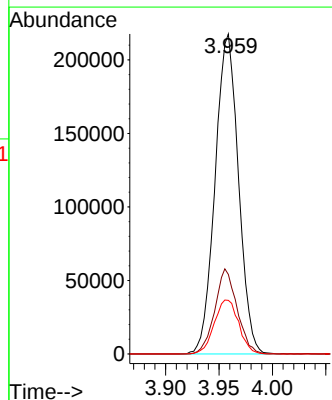
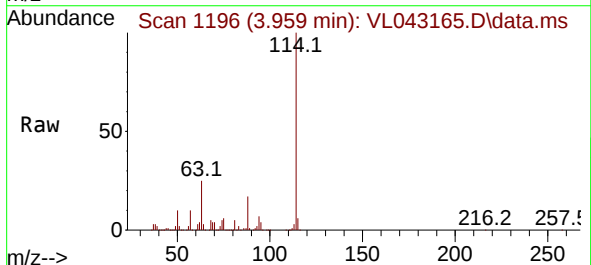
Manual Integrations
APPROVED

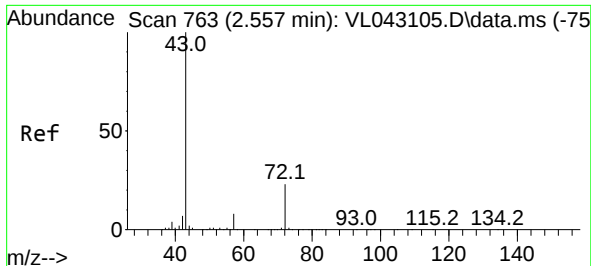
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion:114 Resp: 330913
Ion Ratio Lower Upper
114 100
63 25.4 19.3 28.9
88 17.7 13.9 20.9





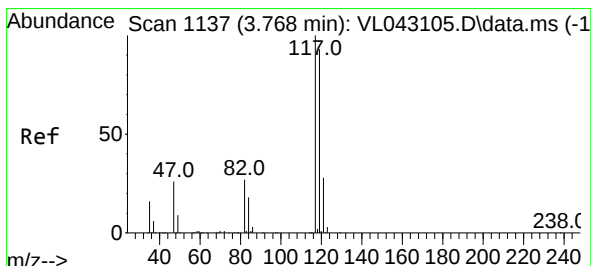
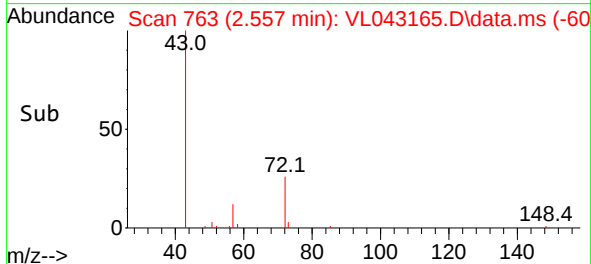
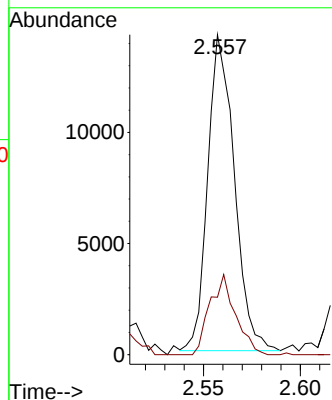
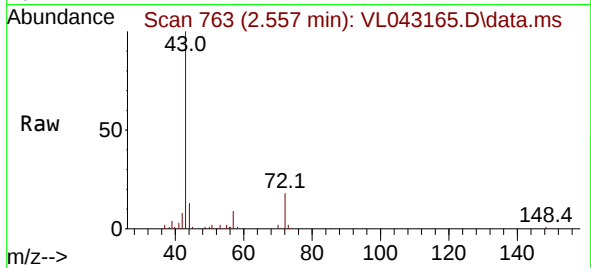
#34
2-Butanone
Concen: 0.612 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
141-IA2

Tgt Ion: 43 Resp: 1360
Ion Ratio Lower Upper
43 100
72 24.5 18.4 27.6

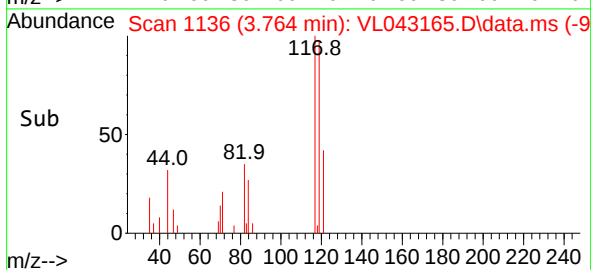
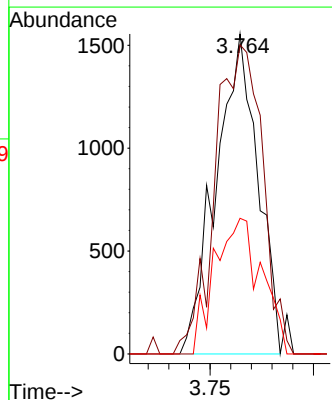
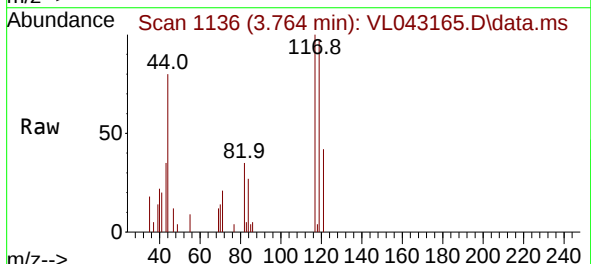
Manual Integrations
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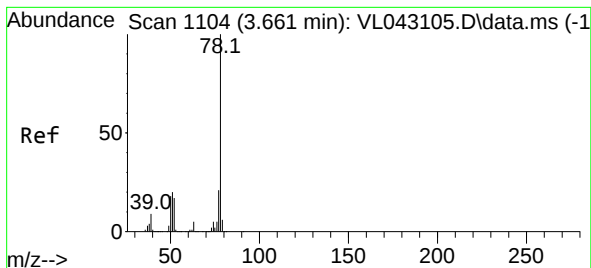
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.092 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion:117 Resp: 2179
Ion Ratio Lower Upper
117 100
119 92.4 74.1 111.1
121 42.4 22.2 33.2#





#36

Benzene

Concen: 0.540 ppbv

RT: 3.654 min Scan# 1104

Delta R.T. -0.007 min

Lab File: VL043165.D

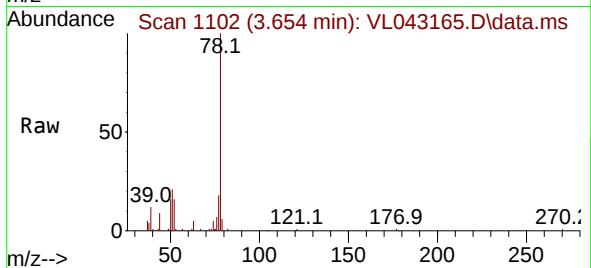
Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

141-IA2



Tgt Ion: 78 Resp: 16820

Ion Ratio Lower Upper

78 100

77 17.7 17.0 25.6

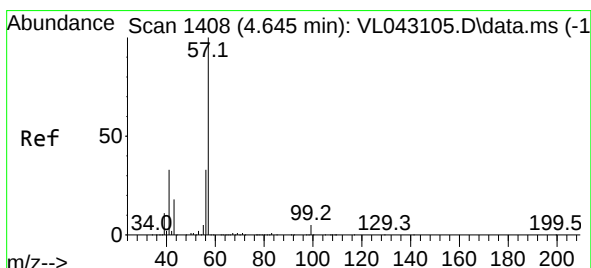
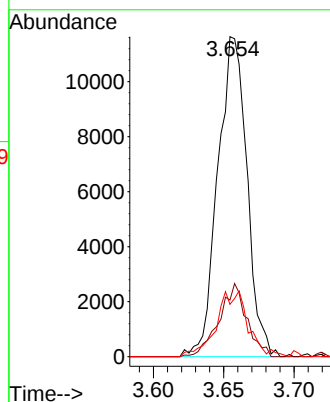
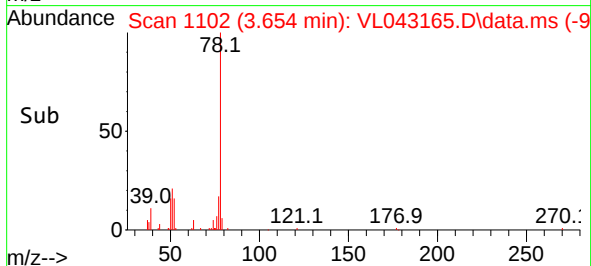
50 16.3 14.6 22.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#44

2,2,4-Trimethylpentane

Concen: 0.478 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.007 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

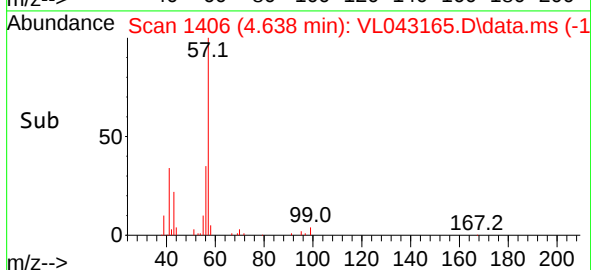
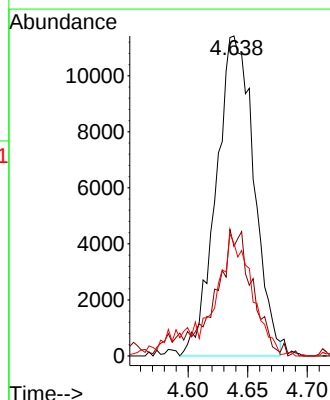
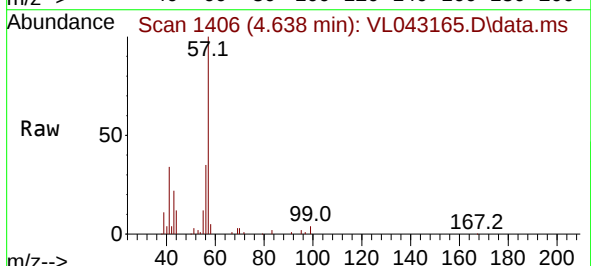
Tgt Ion: 57 Resp: 25124

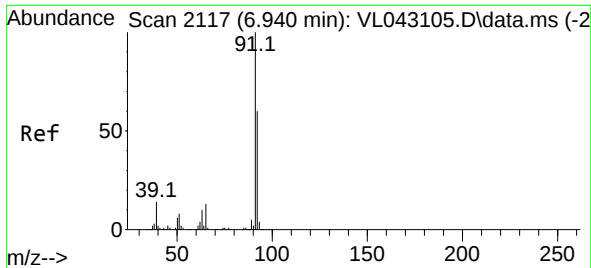
Ion Ratio Lower Upper

57 100

41 42.1 26.3 39.5#

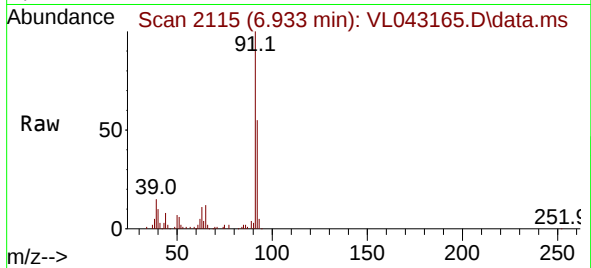
56 42.2 25.9 38.9#





#53
Toluene
Concen: 0.904 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

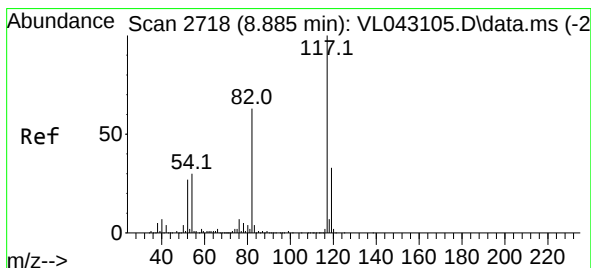
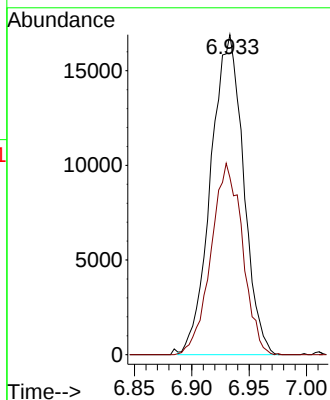
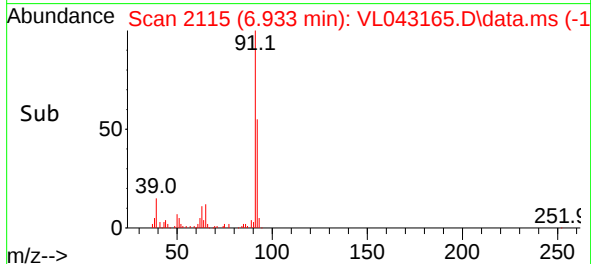
Instrument :
MSVOA_L
ClientSampleId :
141-IA2



Tgt Ion: 91 Resp: 3344
Ion Ratio Lower Upper
91 100
92 57.6 48.8 73.2

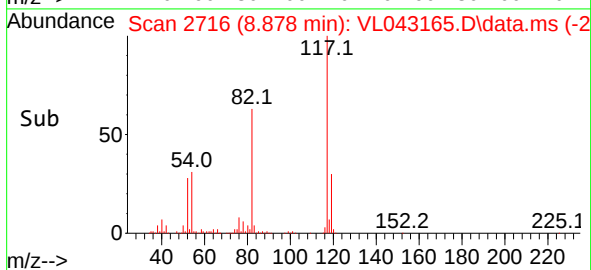
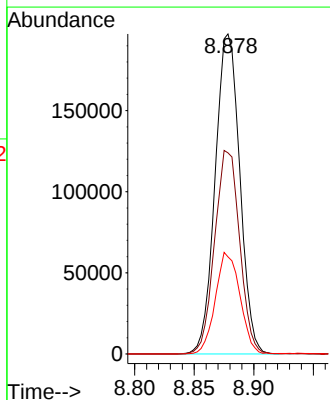
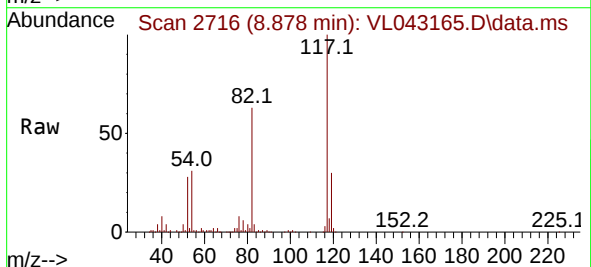
Manual Integrations
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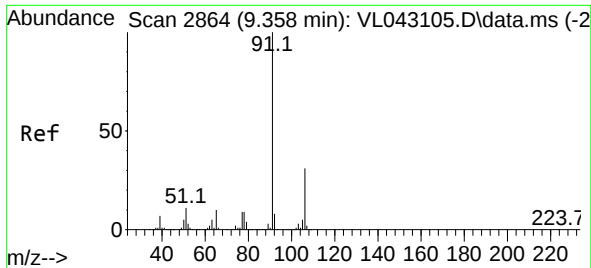
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

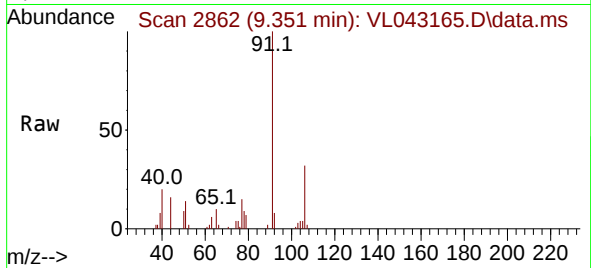
Tgt Ion:117 Resp: 283774
Ion Ratio Lower Upper
117 100
82 64.5 53.8 80.8
119 31.8 25.4 38.0





#58
Ethyl Benzene
Concen: 0.153 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

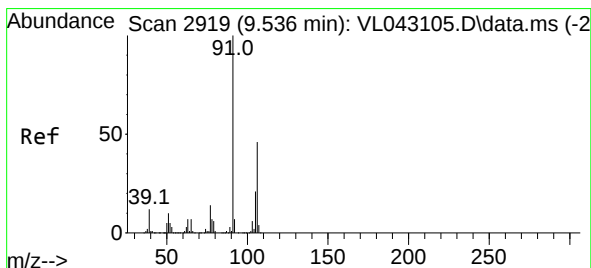
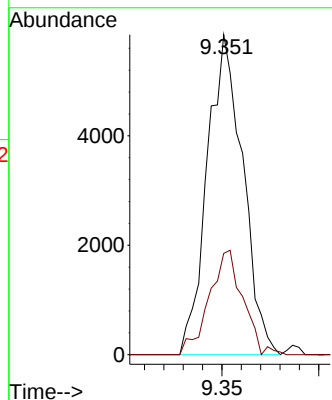
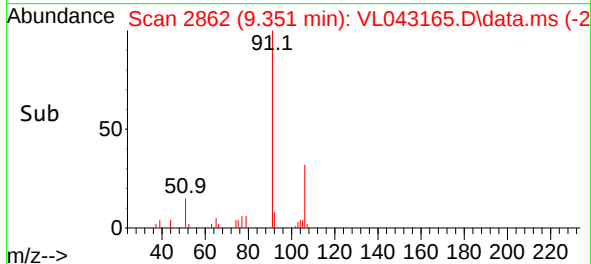
Instrument : MSVOA_L
ClientSampleId : 141-IA2



Tgt Ion: 91 Resp: 747
Ion Ratio Lower Upper
91 100
106 31.7 24.8 37.2

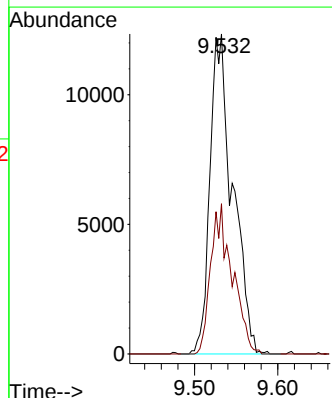
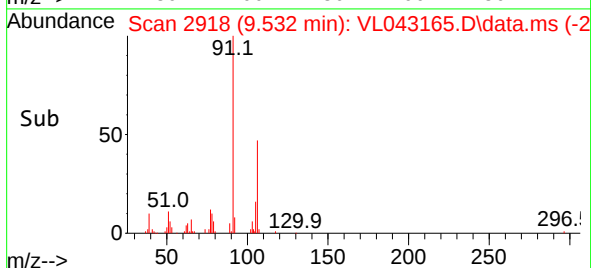
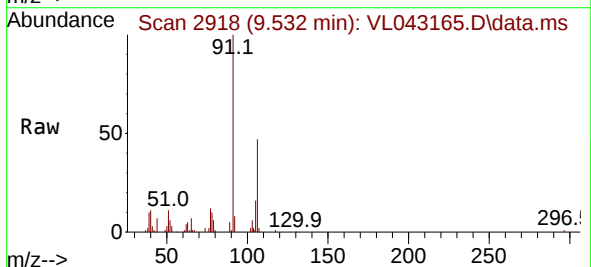
Manual Integrations
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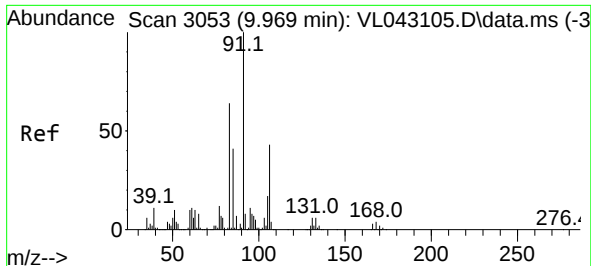
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#59
m/p-Xylene
Concen: 0.602 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.003 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 91 Resp: 23381
Ion Ratio Lower Upper
91 100
106 44.5 38.0 57.0





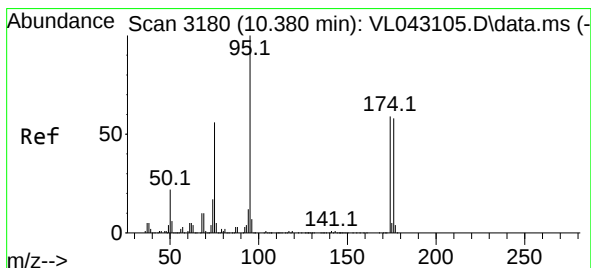
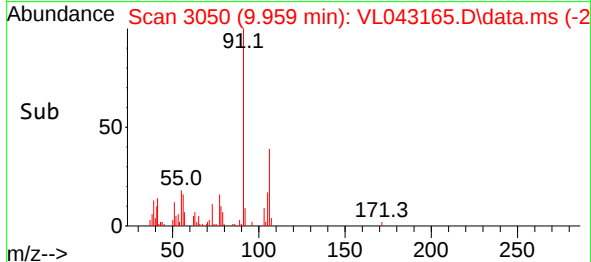
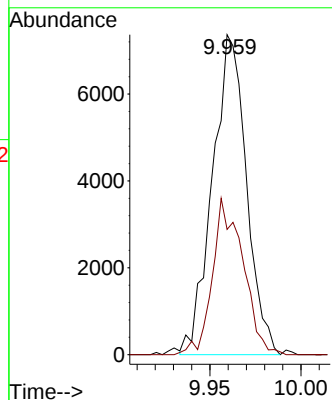
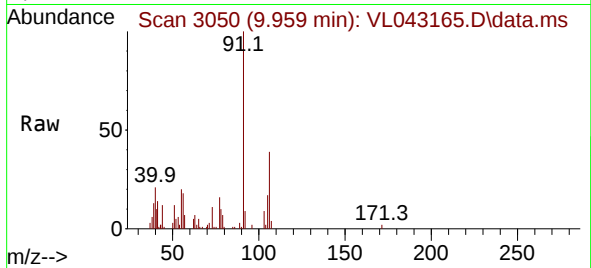
#60
o-Xylene
Concen: 0.249 ppbv
RT: 9.959 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Instrument :
MSVOA_L
ClientSampleId :
141-IA2

Tgt Ion: 91 Resp: 9569
Ion Ratio Lower Upper
91 100
106 43.8 21.9 65.8

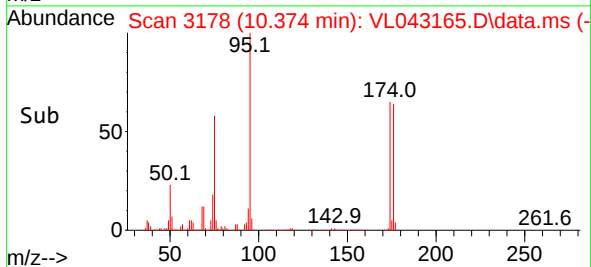
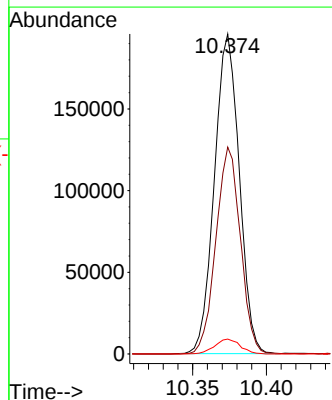
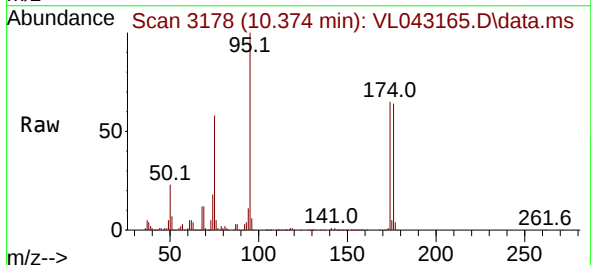
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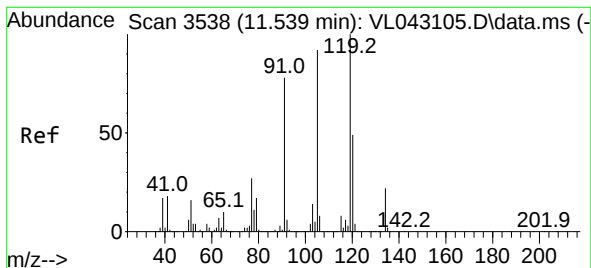
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.388 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043165.D
Acq: 06 Nov 2025 13:50

Tgt Ion: 95 Resp: 229122
Ion Ratio Lower Upper
95 100
174 64.0 48.3 72.5
175 4.8 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.151 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.007 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Instrument :

MSVOA_L

ClientSampleId :

141-IA2

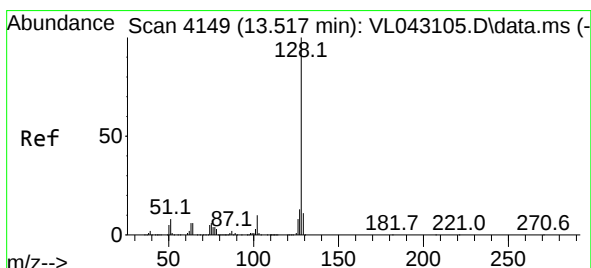
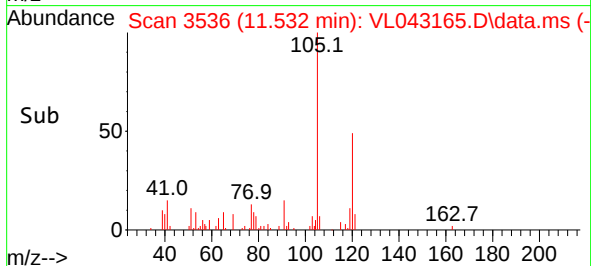
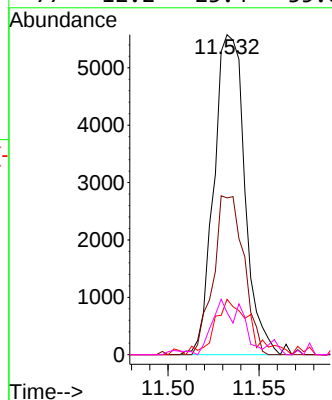
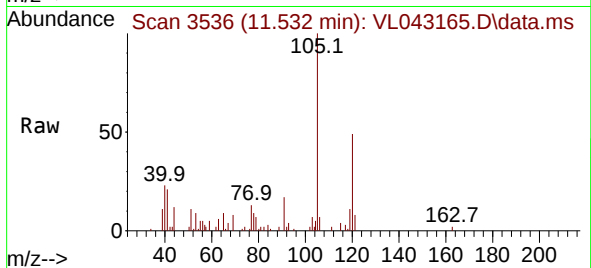
Tgt Ion:	105	Resp:	6570
Ion Ratio	Lower	Upper	
105	100		
120	49.0	42.8	64.2
91	16.1	68.3	102.5
77	12.2	23.4	35.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#79

Naphthalene

Concen: 0.269 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL043165.D

Acq: 06 Nov 2025 13:50

Tgt Ion:	128	Resp:	12262
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.5	15.7
129	13.0	9.1	13.7

