

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042189.D
 Acq On : 27 Mar 2025 20:48
 Operator : SY/MD
 Sample : Q1669-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2-3262025

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:17:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	185013	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	523099	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	477151	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	387301	9.884	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	12204	0.447	ppbv	100
3) Chlorodifluoromethane	1.476	51	11994	0.430	ppbv #	85
4) Chloromethane	1.531	50	4911	0.440	ppbv	91
9) Propene	1.486	41	3674m	0.287	ppbv	
11) Trichlorofluoromethane	1.878	101	5874	0.221	ppbv	88
13) Ethanol	1.722	45	10166	8.407	ppbv #	27
15) Acetone	1.835	43	63981	2.473	ppbv	97
20) Methylene Chloride	2.062	84	67627	7.018	ppbv	95
26) Hexane	2.826	57	116880	4.506	ppbv #	31
34) 2-Butanone	2.567	43	6879	0.181	ppbv	96
35) Carbon Tetrachloride	3.764	117	2968m	0.073	ppbv	
36) Benzene	3.654	78	6925	0.134	ppbv #	90
53) Toluene	6.933	91	20704	0.337	ppbv	99
59) m/p-Xylene	9.532	91	7256m	0.107	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	24773	0.291	ppbv #	65

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

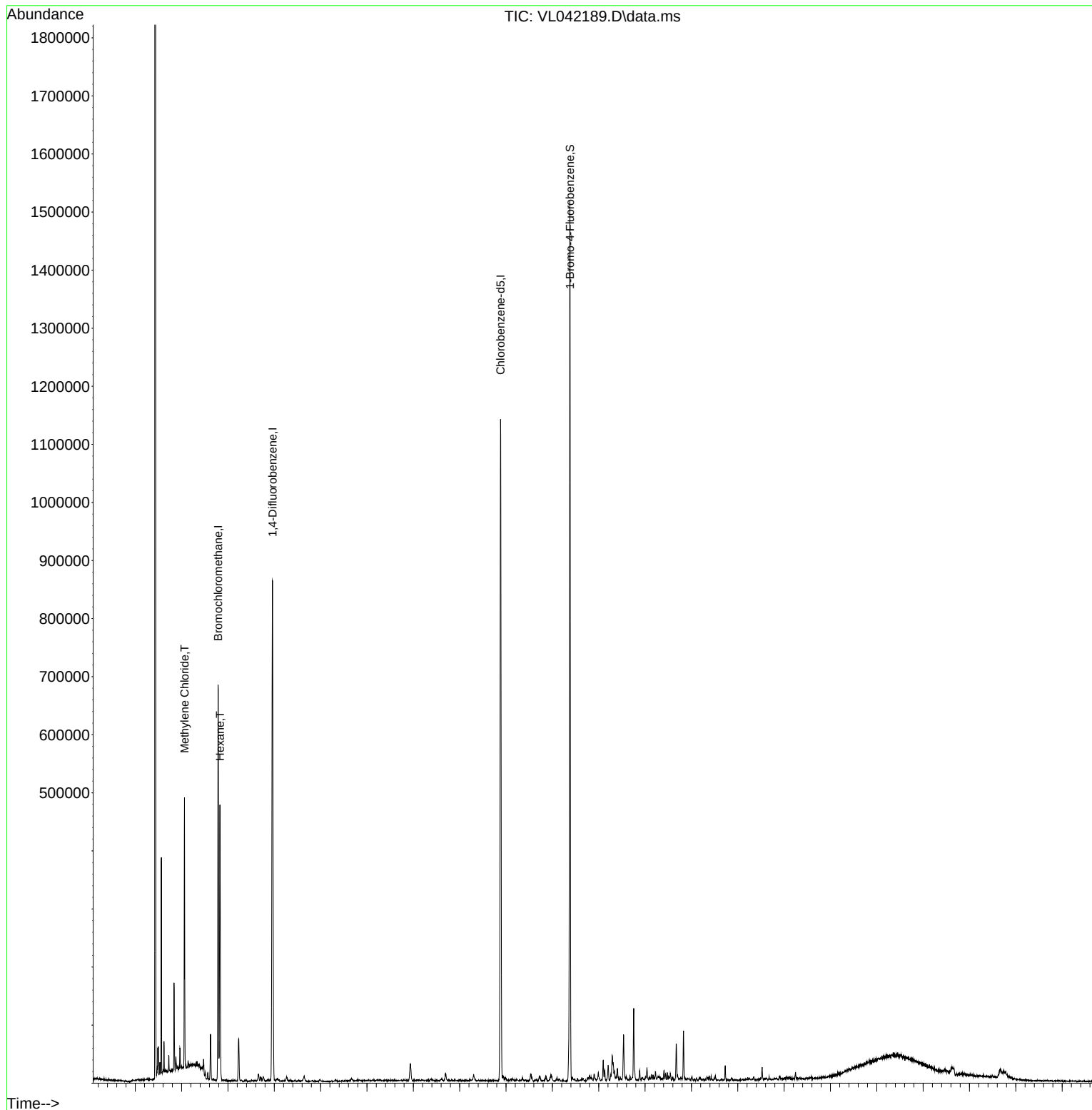
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042189.D
Acq On : 27 Mar 2025 20:48
Operator : SY/MD
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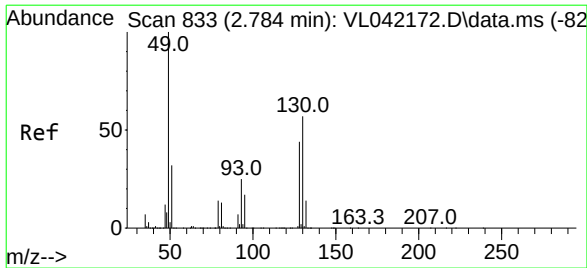
Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025

Quant Time: Mar 28 02:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

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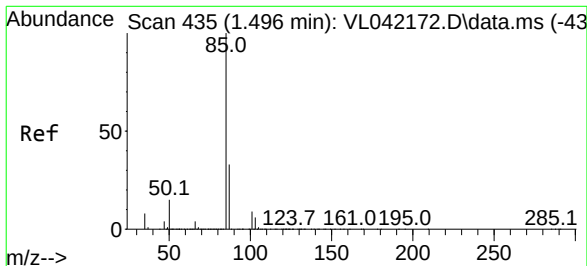
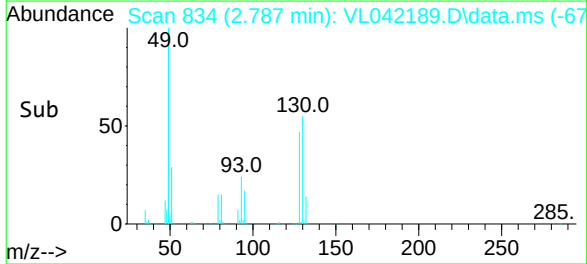
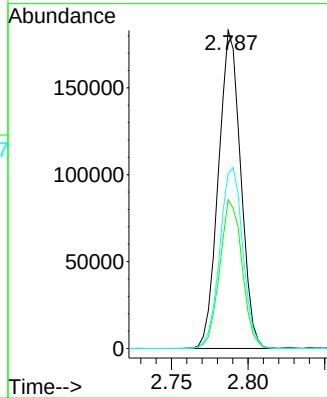
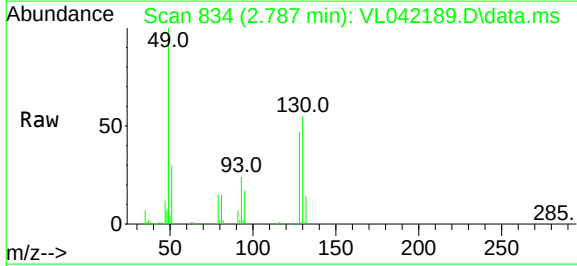
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025

Tgt Ion: 49 Resp: 185013
Ion Ratio Lower Upper
49 100
128 47.0 22.9 68.5
130 58.7 28.8 86.4

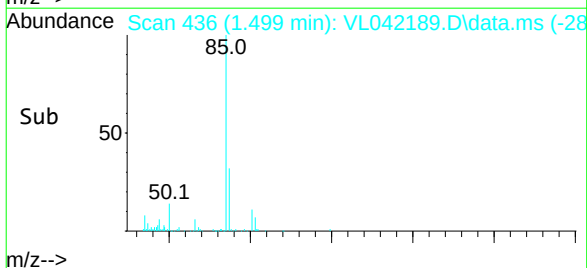
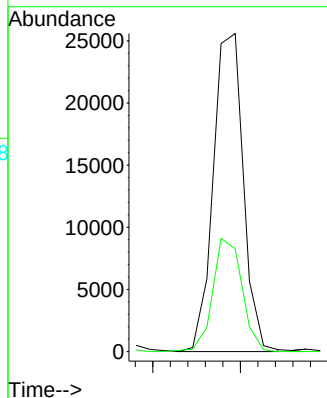
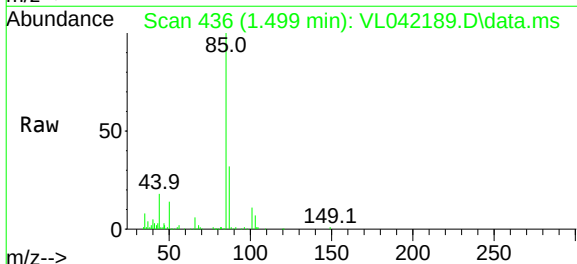
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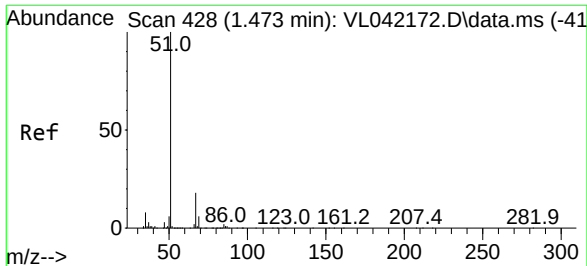
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 0.447 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

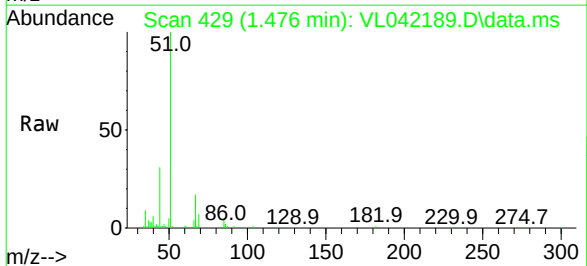
Tgt Ion: 85 Resp: 12204
Ion Ratio Lower Upper
85 100
87 32.3 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.430 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

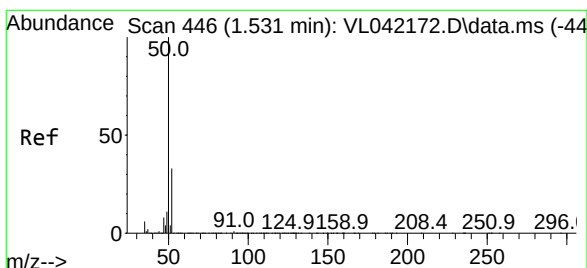
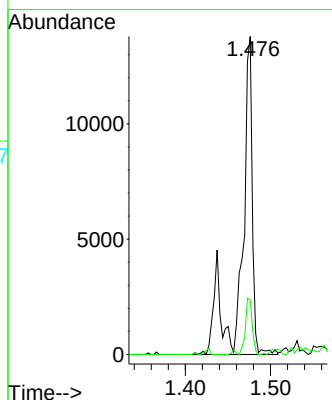
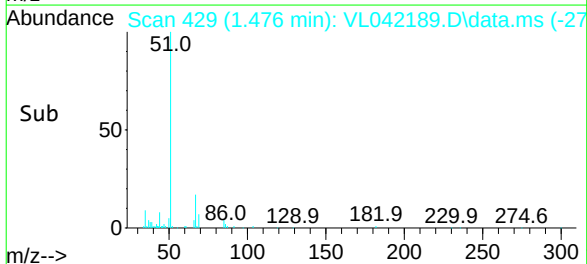
Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025



Tgt Ion: 51 Resp: 11994
Ion Ratio Lower Upper
51 100
67 12.0 15.0 22.6#

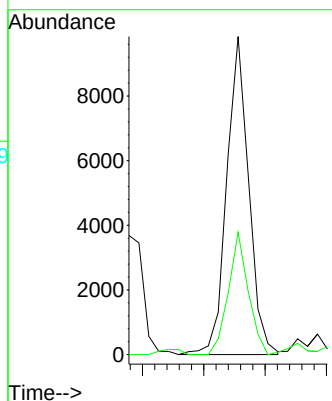
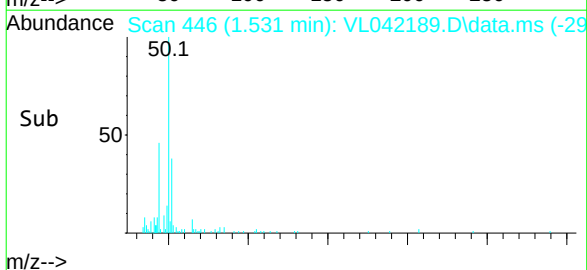
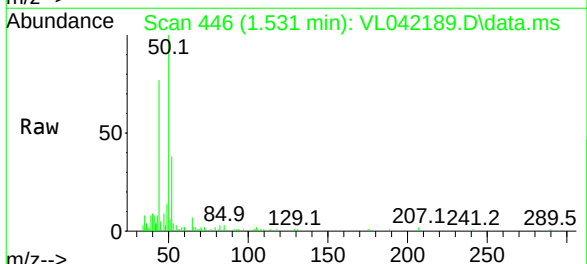
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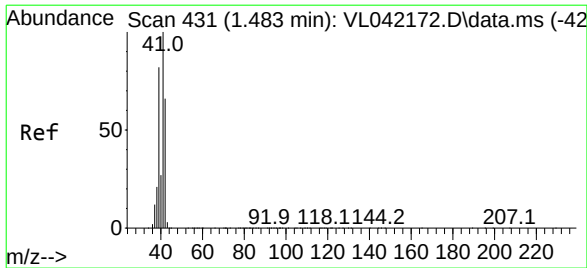
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.440 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Tgt Ion: 50 Resp: 4911
Ion Ratio Lower Upper
50 100
52 37.7 26.1 39.1





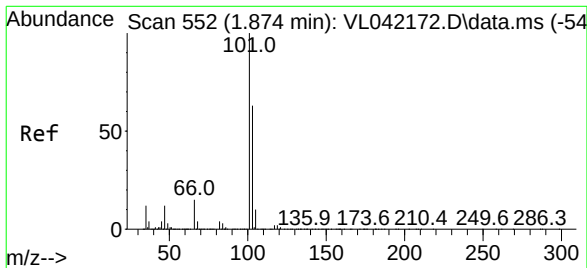
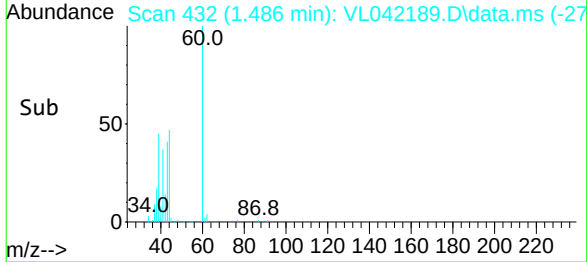
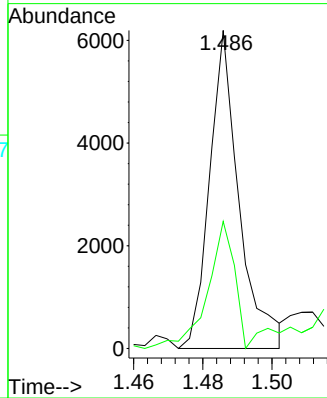
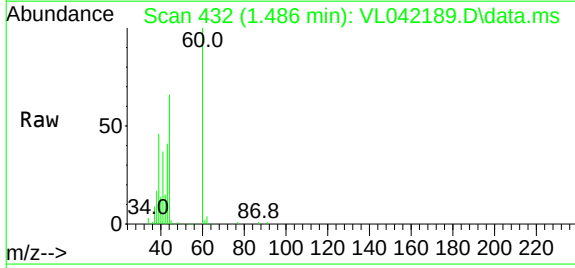
#9
Propene
Concen: 0.287 ppbv m
RT: 1.486 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025

Tgt Ion: 41 Resp: 3674
Ion Ratio Lower Upper
41 100
42 96.0 55.4 83.2#

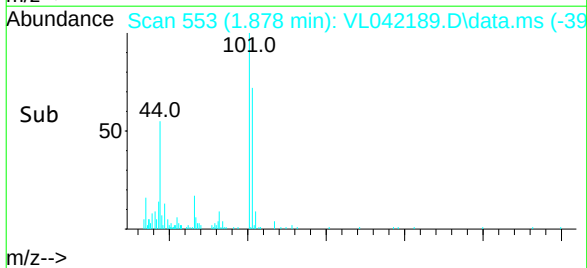
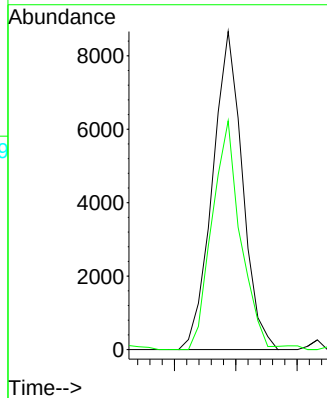
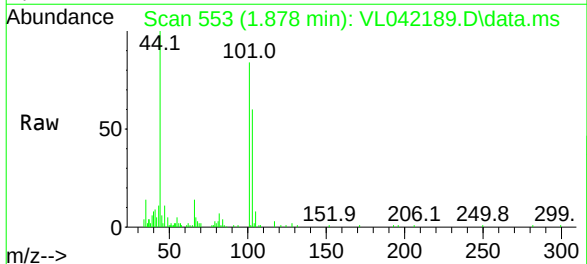
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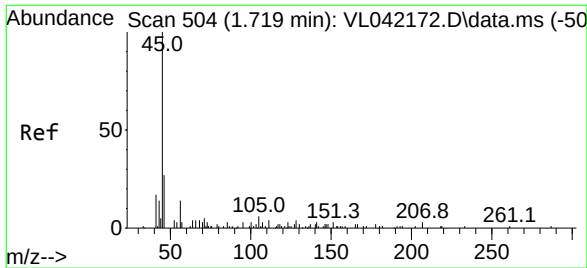
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#11
Trichlorofluoromethane
Concen: 0.221 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Tgt Ion:101 Resp: 5874
Ion Ratio Lower Upper
101 100
103 71.9 50.2 75.2





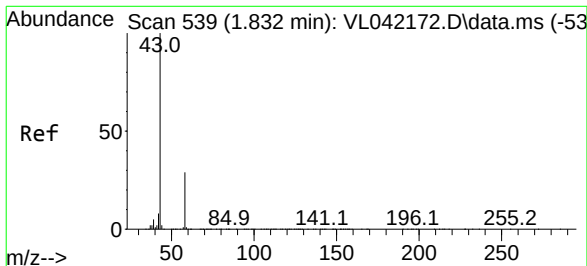
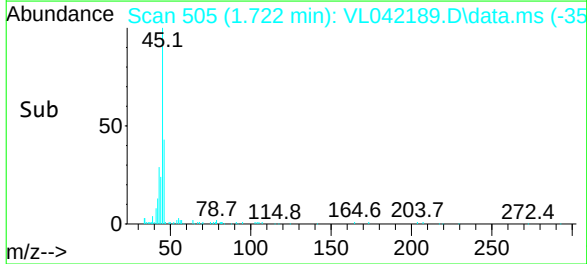
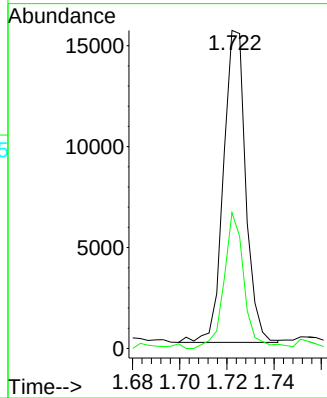
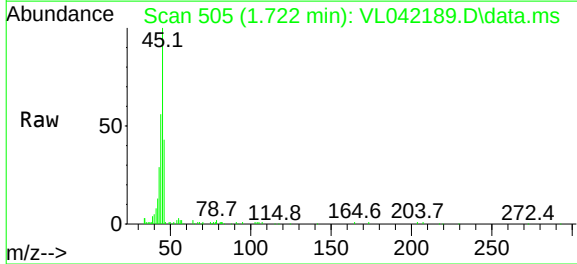
#13
Ethanol
Concen: 8.407 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025

Tgt Ion: 45 Resp: 10166
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#

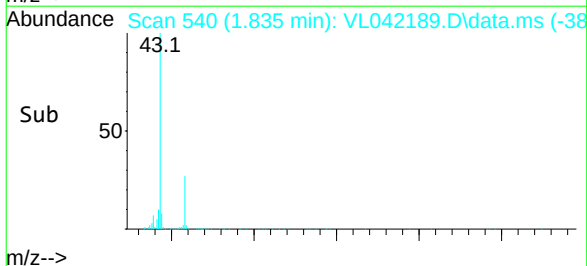
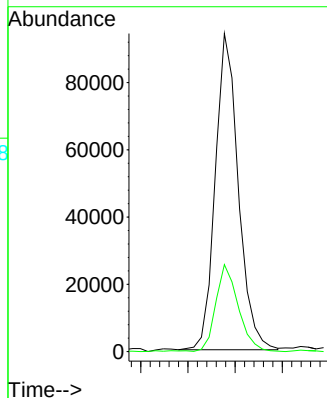
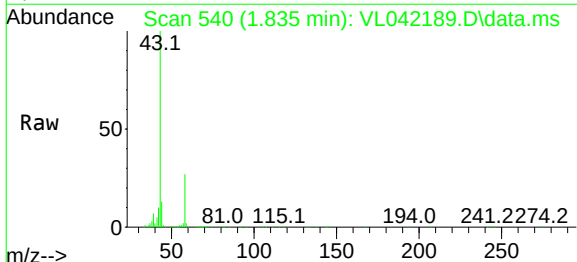
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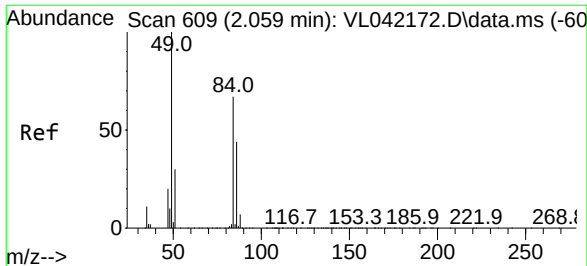
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#15
Acetone
Concen: 2.473 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Tgt Ion: 43 Resp: 63981
Ion Ratio Lower Upper
43 100
58 27.4 23.2 34.8





#20

Methylene Chloride

Concen: 7.018 ppbv

RT: 2.062 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042189.D

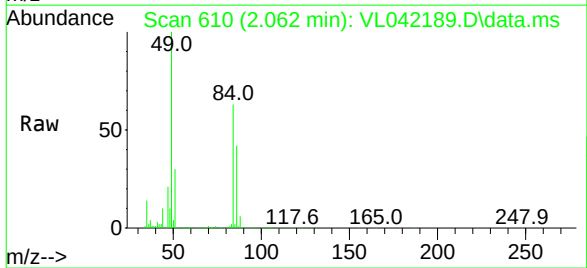
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Instrument :

MSVOA_L

ClientSampleId :

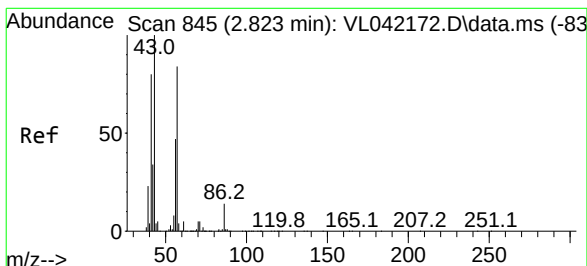
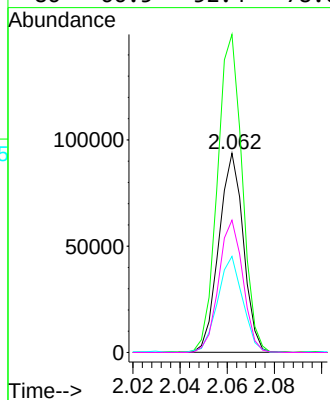
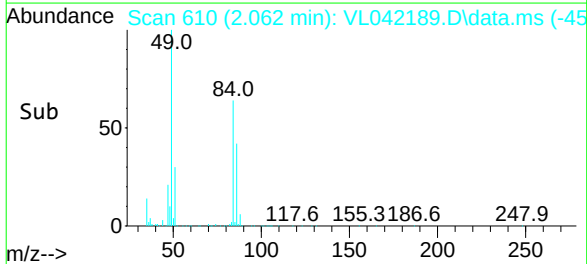
AA-2-3262025



Tgt Ion:	84	Resp:	67627
Ion	Ratio	Lower	Upper
84	100		
49	159.6	120.2	180.4
51	48.2	37.4	56.0
86	66.5	52.4	78.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26

Hexane

Concen: 4.506 ppbv

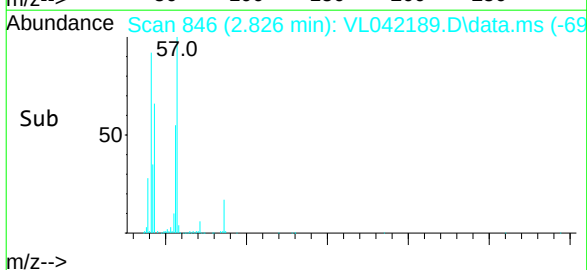
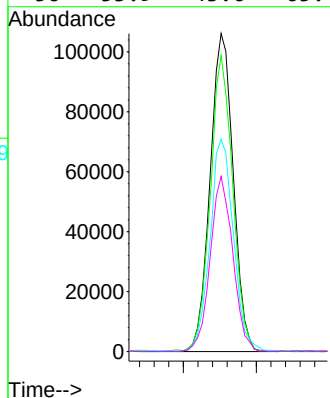
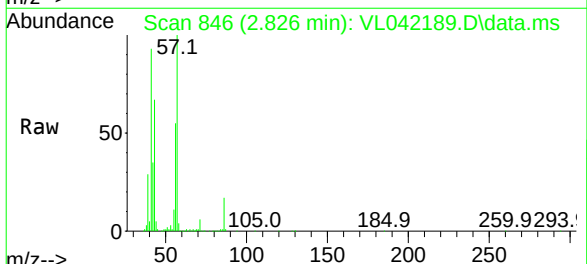
RT: 2.826 min Scan# 846

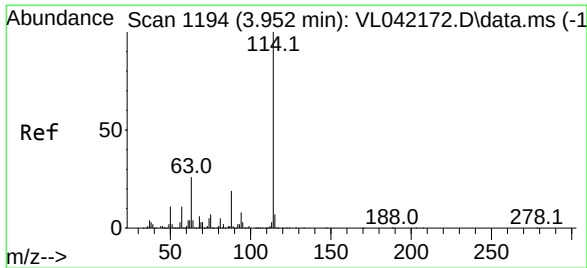
Delta R.T. 0.003 min

Lab File: VL042189.D

Acq: 27 Mar 2025 20:48

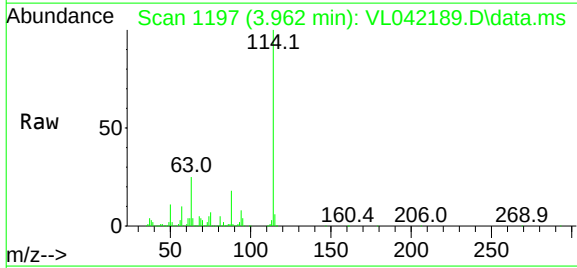
Tgt Ion:	57	Resp:	116880
Ion	Ratio	Lower	Upper
57	100		
41	90.1	76.6	114.8
43	68.0	207.8	311.8#
56	53.9	43.6	65.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

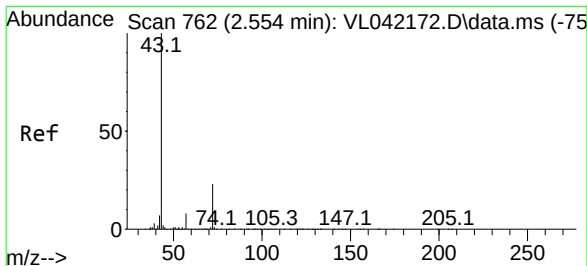
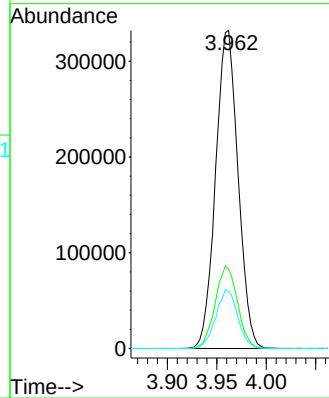
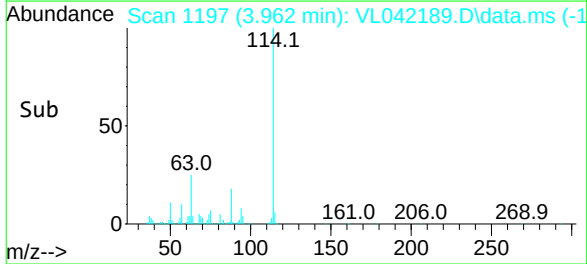
Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025



Tgt Ion: 114 Resp: 523099
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.1 15.0 22.4

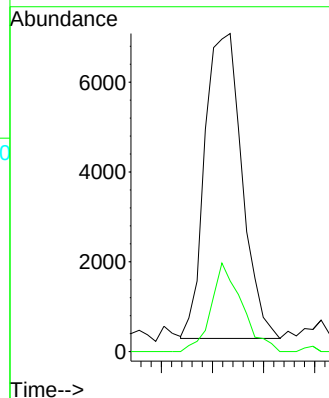
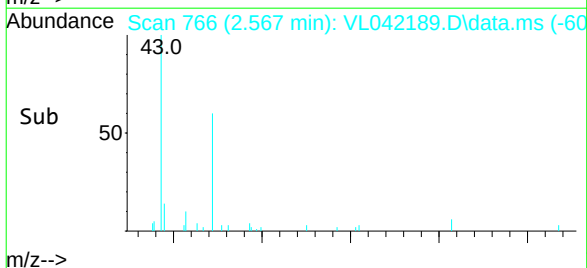
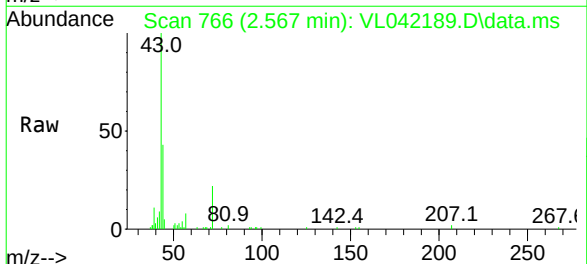
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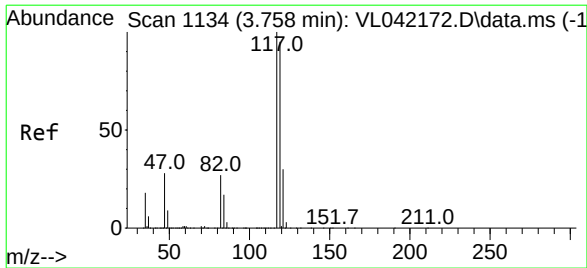
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 0.181 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

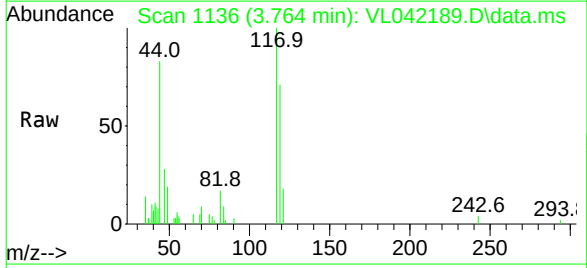
Tgt Ion: 43 Resp: 6879
Ion Ratio Lower Upper
43 100
72 24.6 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.764 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

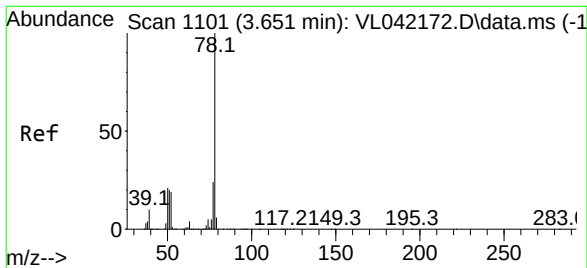
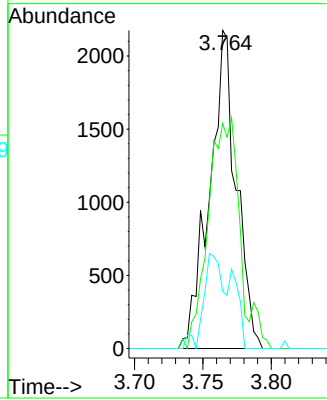
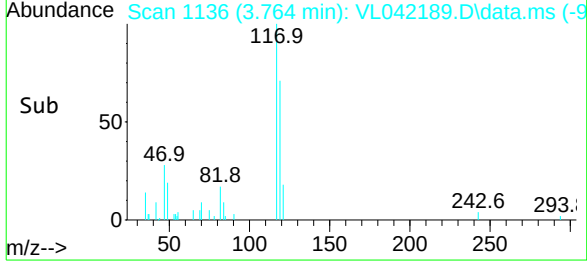
Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025



Tgt Ion: 117 Resp: 2968
Ion Ratio Lower Upper
117 100
119 70.7 76.2 114.2#
121 18.0 24.2 36.4#

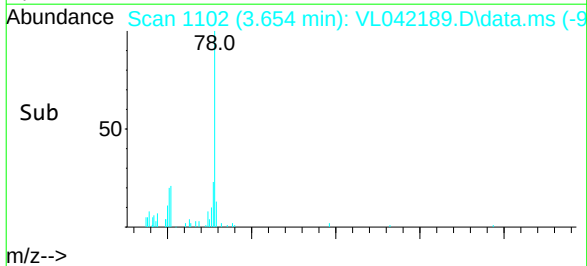
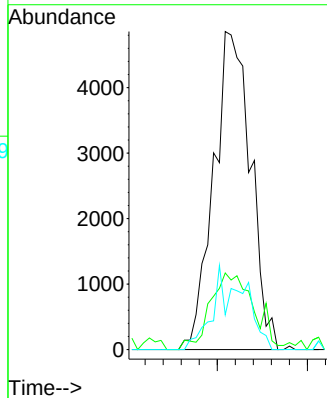
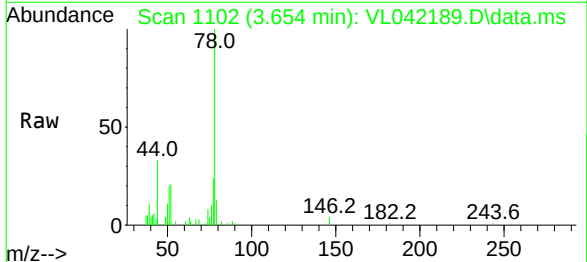
Manual Integrations
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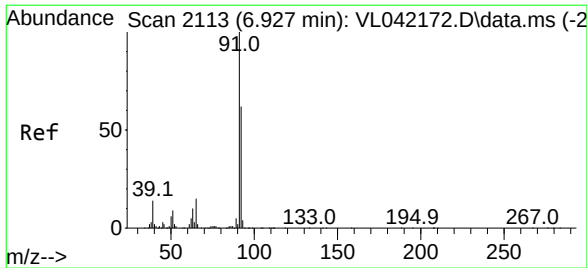
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36
Benzene
Concen: 0.134 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Tgt Ion: 78 Resp: 6925
Ion Ratio Lower Upper
78 100
77 24.1 19.1 28.7
50 10.9 16.6 24.8#





#53

Toluene

Concen: 0.337 ppbv

RT: 6.933 min Scan# 2113

Delta R.T. 0.006 min

Lab File: VL042189.D

Acq: 27 Mar 2025 20:48

Instrument :

MSVOA_L

ClientSampleId :

AA-2-3262025

Tgt Ion: 91 Resp: 20704

Ion Ratio Lower Upper

91 100

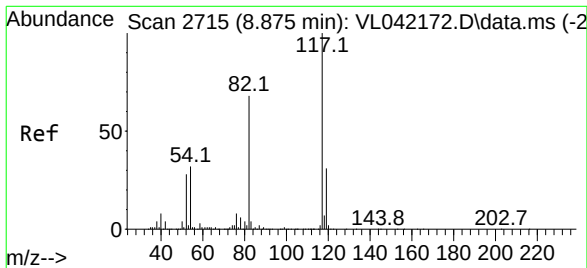
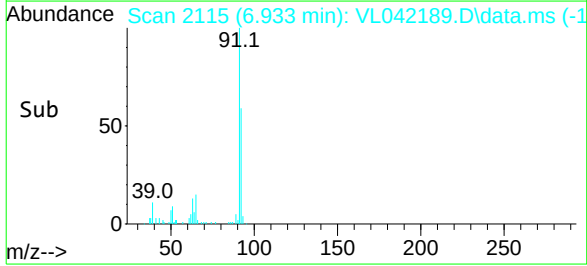
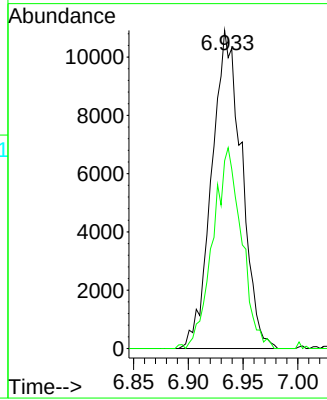
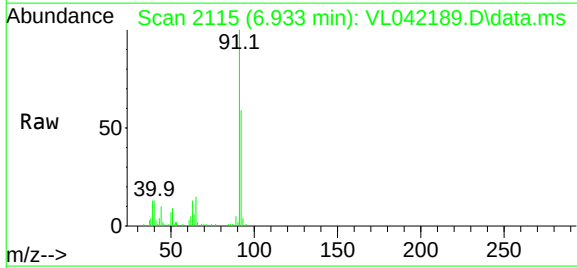
92 60.9 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.006 min

Lab File: VL042189.D

Acq: 27 Mar 2025 20:48

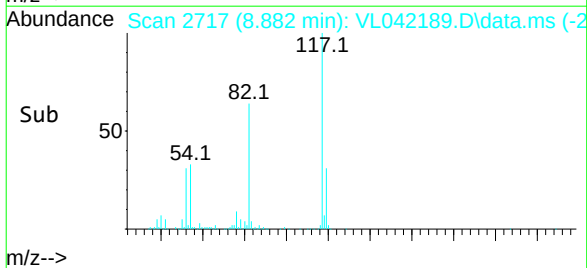
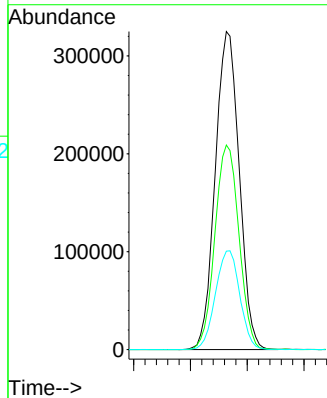
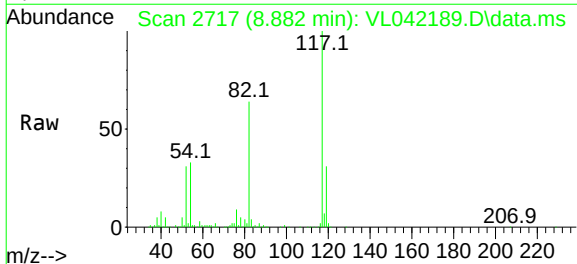
Tgt Ion:117 Resp: 477151

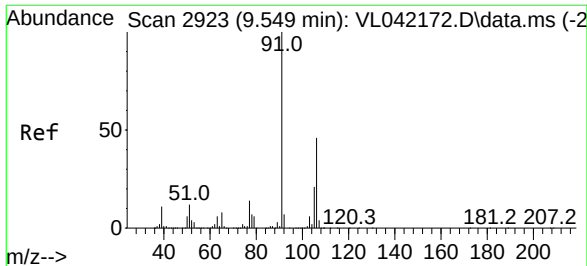
Ion Ratio Lower Upper

117 100

82 64.6 55.8 83.6

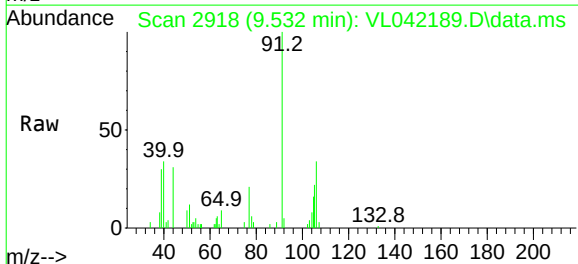
119 31.6 25.5 38.3





#59
m/p-Xylene
Concen: 0.107 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

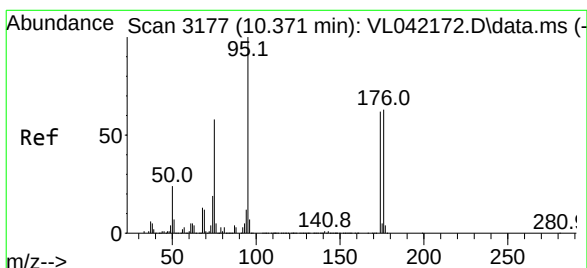
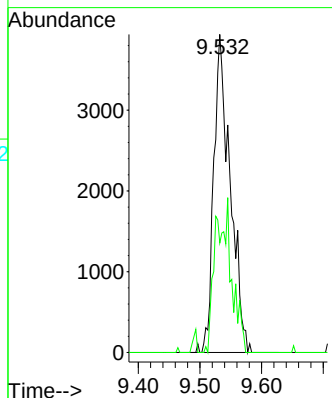
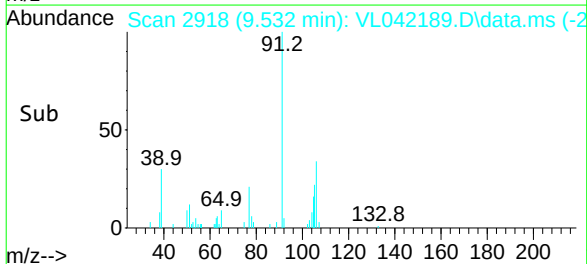
Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025



Tgt Ion: 91 Resp: 7256
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

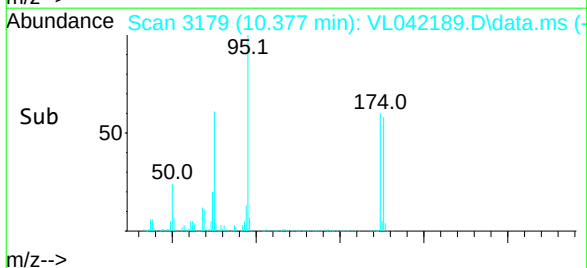
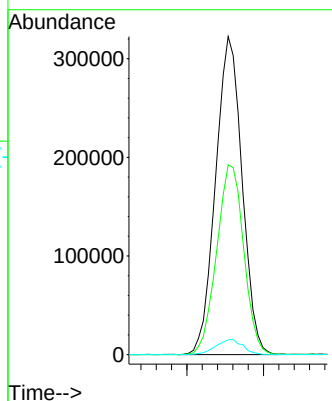
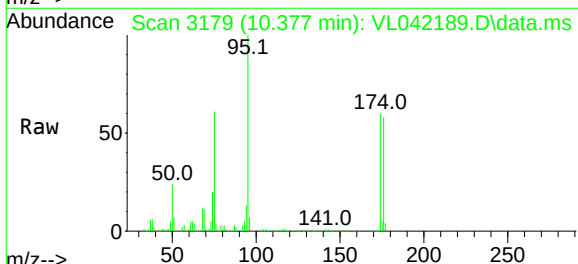
Manual Integrations
APPROVED

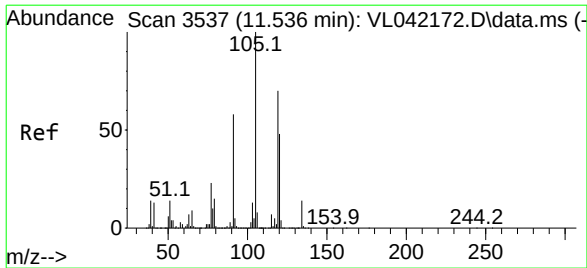
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.884 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

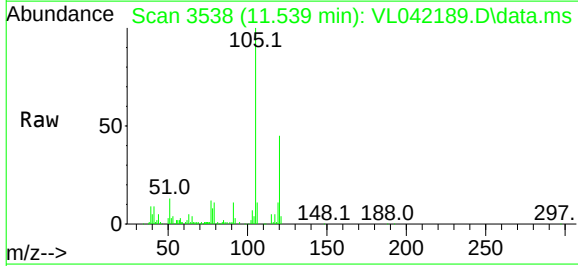
Tgt Ion: 95 Resp: 387301
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.9 3.8 5.6





#74
1,2,4-Trimethylbenzene
Concen: 0.291 ppbv
RT: 11.539 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042189.D
Acq: 27 Mar 2025 20:48

Instrument :
MSVOA_L
ClientSampleId :
AA-2-3262025



Tgt	Ion	105	Resp	24773
Ion	Ratio	Lower	Upper	
105	100			
120	44.7	38.6	58.0	
91	10.5	46.2	69.2	#
77	12.0	18.6	27.8	#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

