

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042188.D
 Acq On : 27 Mar 2025 20:12
 Operator : SY/MD
 Sample : Q1669-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-3262025

Manual Integrations
 APPROVED

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

Quant Time: Mar 28 02:16:44 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	185847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	529516	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	474604	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	386837	9.925	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	10856	0.396	ppbv	94
3) Chlorodifluoromethane	1.473	51	7173m	0.256	ppbv	
4) Chloromethane	1.531	50	5306	0.473	ppbv	100
9) Propene	1.486	41	5401m	0.420	ppbv	
11) Trichlorofluoromethane	1.878	101	5846	0.219	ppbv	95
13) Ethanol	1.719	45	15071	12.408	ppbv	93
15) Acetone	1.836	43	83691	3.220	ppbv	92
20) Methylene Chloride	2.059	84	7575	0.783	ppbv	85
26) Hexane	2.823	57	44184	1.696	ppbv #	33
34) 2-Butanone	2.564	43	9069	0.236	ppbv	98
35) Carbon Tetrachloride	3.758	117	2713m	0.066	ppbv	
36) Benzene	3.651	78	16130	0.307	ppbv #	93
53) Toluene	6.930	91	19259	0.309	ppbv	97
59) m/p-Xylene	9.529	91	8368m	0.124	ppbv	

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

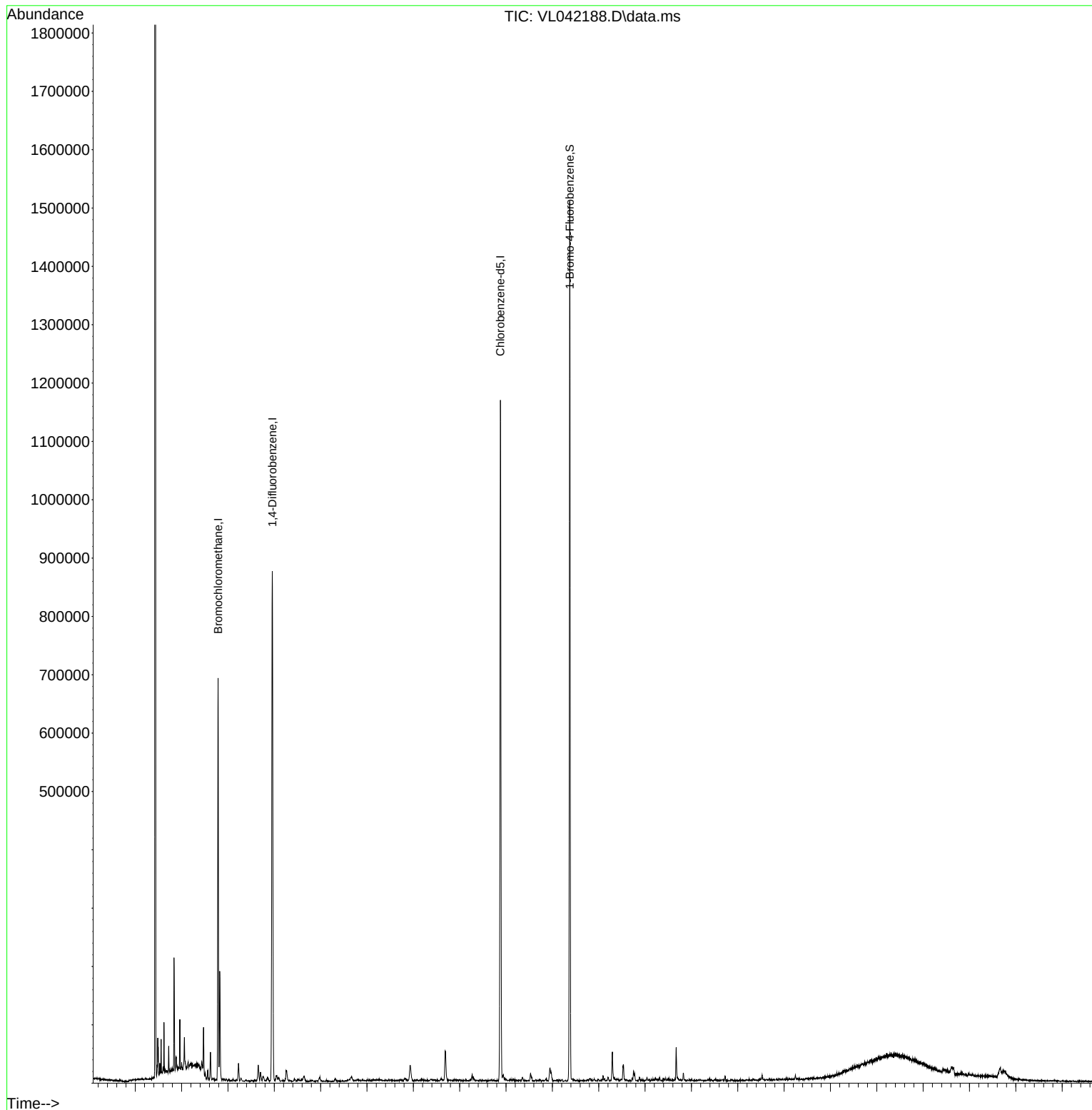
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042188.D
Acq On : 27 Mar 2025 20:12
Operator : SY/MD
Sample : Q1669-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

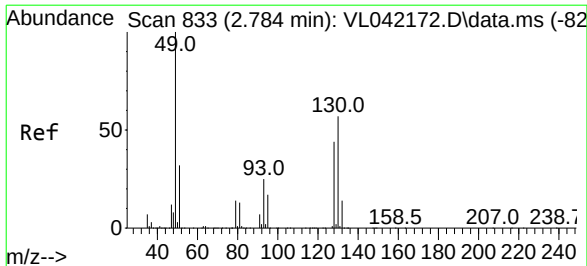
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3262025

Quant Time: Mar 28 02:16:44 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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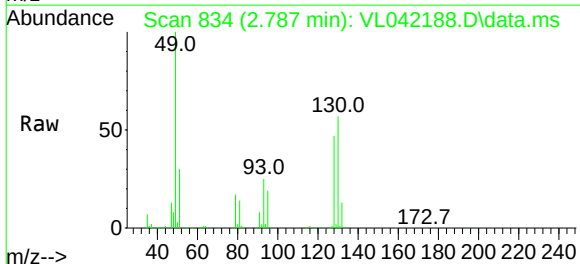
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

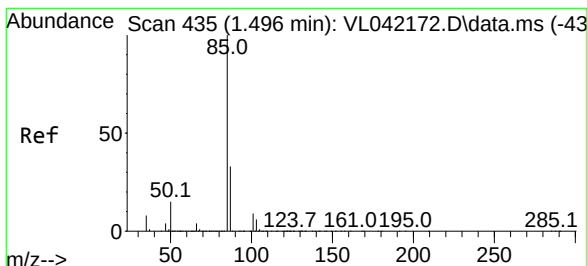
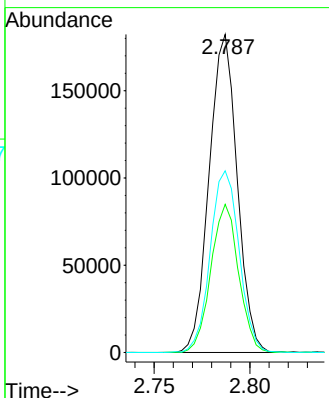
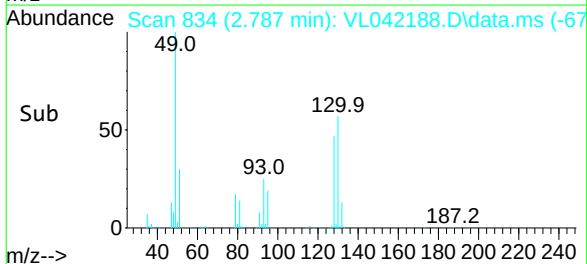
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3262025



Tgt Ion: 49 Resp: 185847
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.0 28.8 86.4

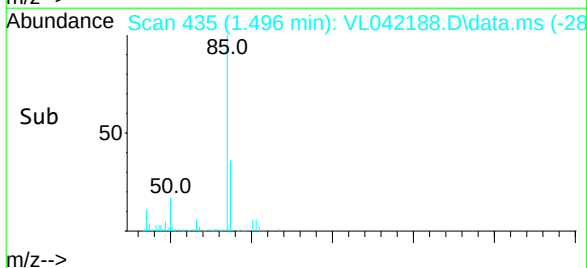
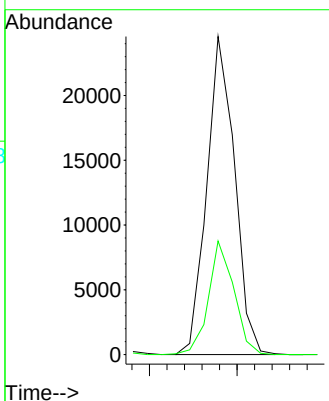
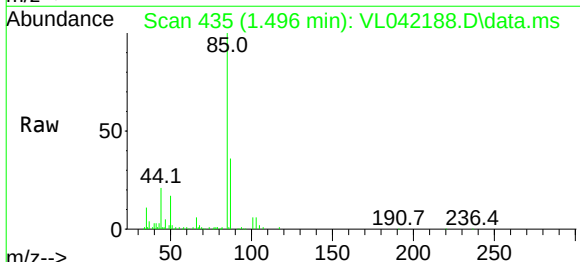
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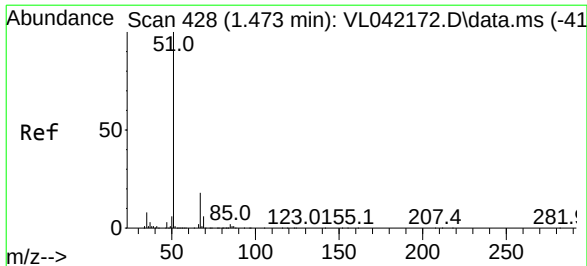
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 0.396 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Tgt Ion: 85 Resp: 10856
Ion Ratio Lower Upper
85 100
87 35.7 26.1 39.1





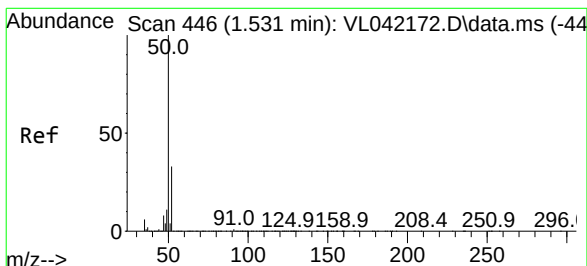
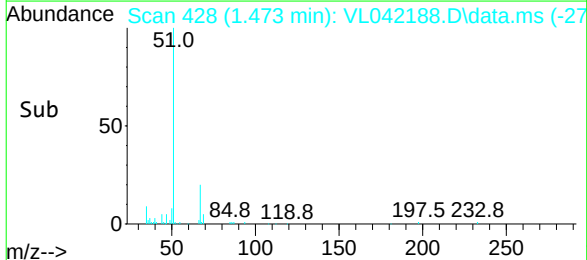
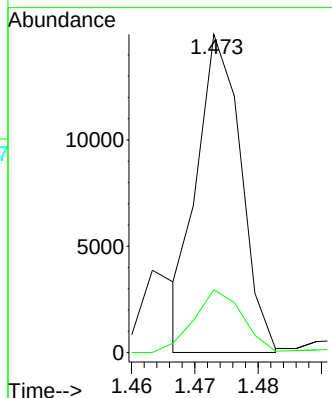
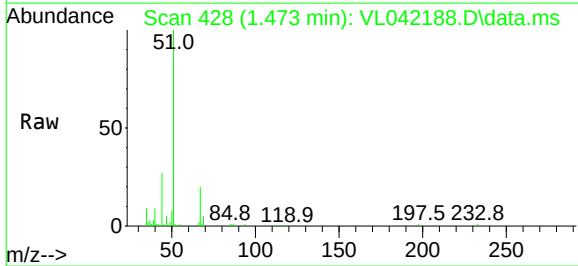
#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Instrument : MSVOA_L
ClientSampleId : AA-1-3262025

Tgt Ion: 51 Resp: 7173
Ion Ratio Lower Upper
51 100
67 27.4 15.0 22.6

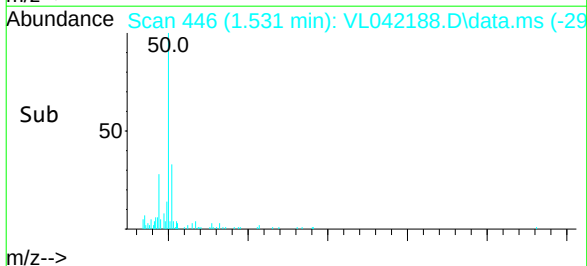
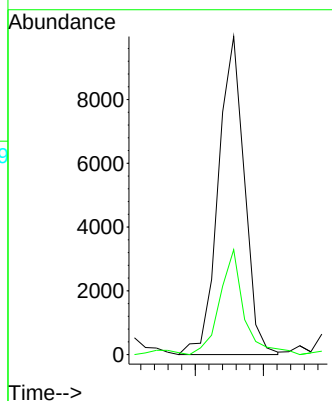
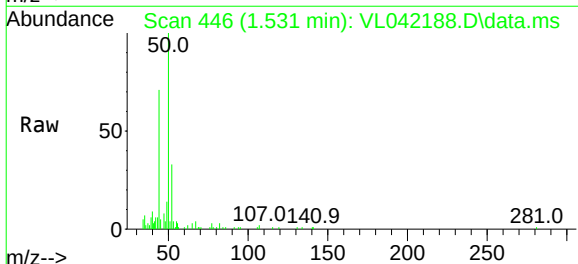
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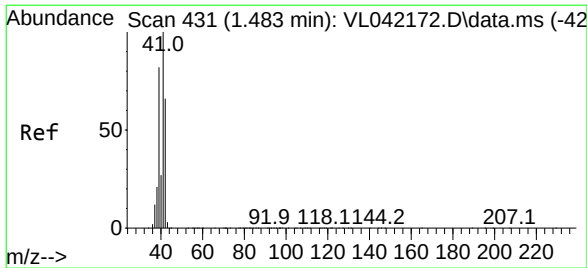
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.473 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

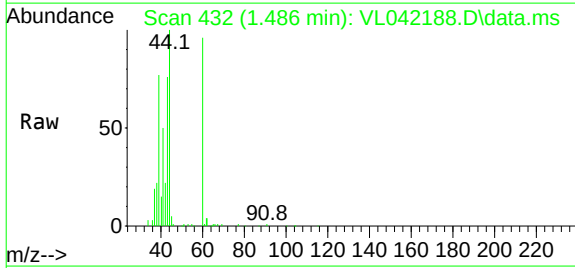
Tgt Ion: 50 Resp: 5306
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1





#9
Propene
Concen: 0.420 ppbv m
RT: 1.486 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

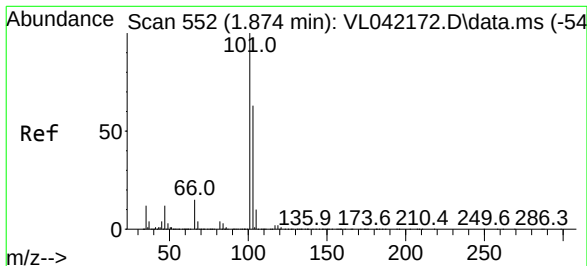
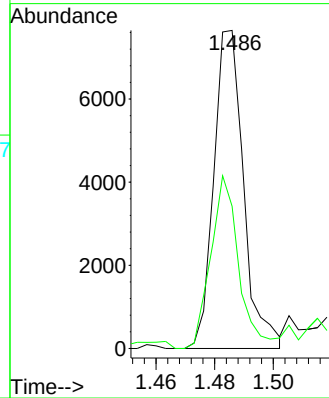
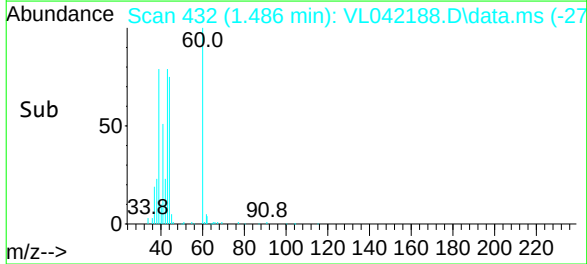
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3262025



Tgt Ion: 41 Resp: 5401
Ion Ratio Lower Upper
41 100
42 26.7 55.4 83.2#

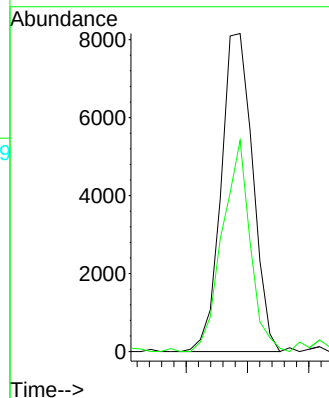
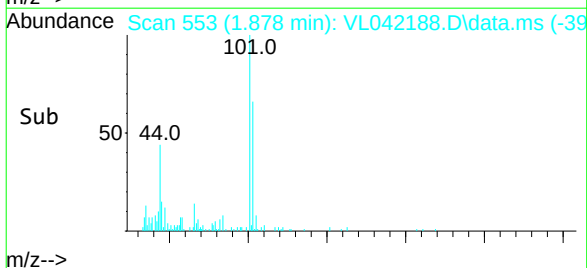
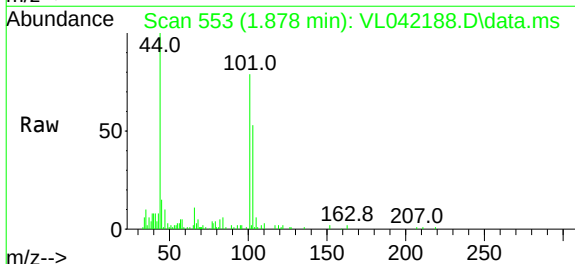
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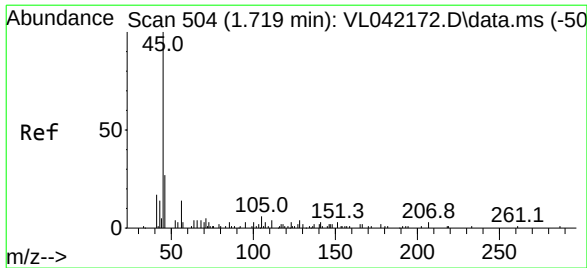
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#11
Trichlorofluoromethane
Concen: 0.219 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Tgt Ion:101 Resp: 5846
Ion Ratio Lower Upper
101 100
103 66.4 50.2 75.2





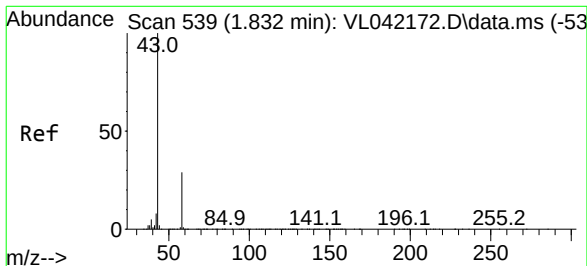
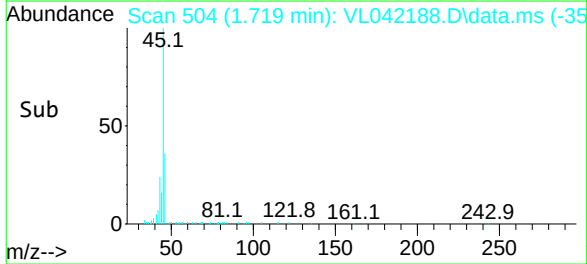
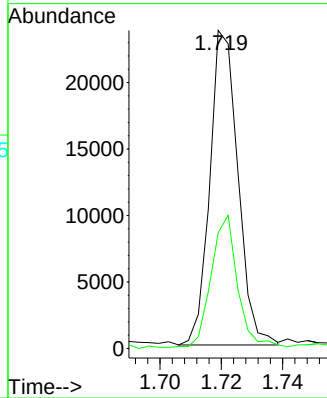
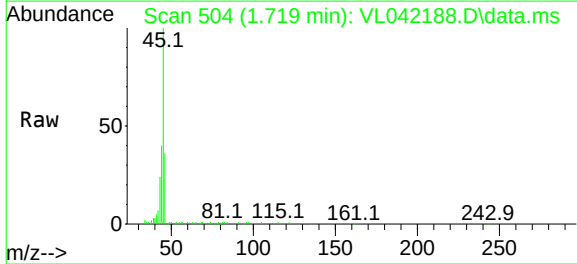
#13
Ethanol
Concen: 12.408 ppbv
RT: 1.719 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3262025

Tgt Ion: 45 Resp: 15071
Ion Ratio Lower Upper
45 100
46 45.5 20.2 80.8

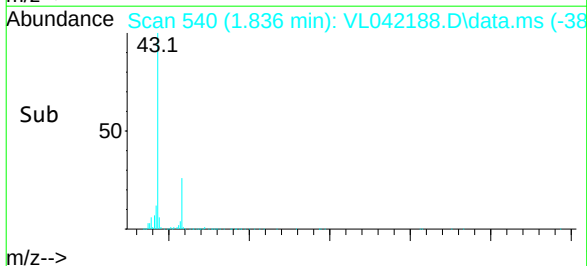
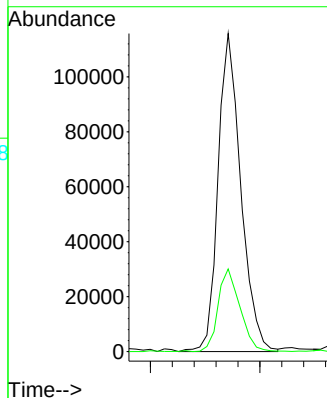
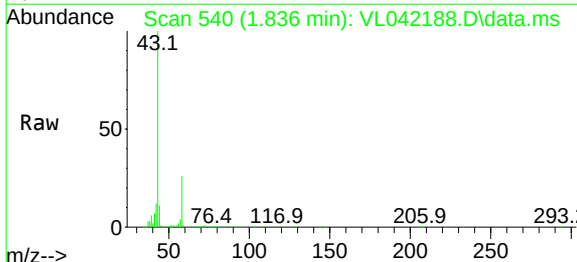
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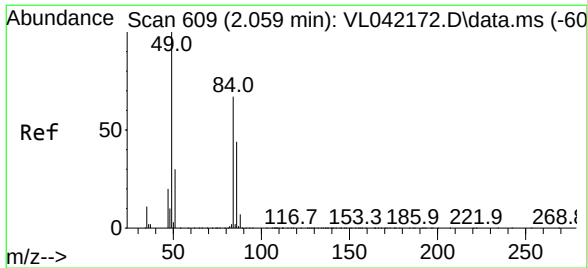
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Supervised By :Mahesh Dadoda 04/03/2025



#15
Acetone
Concen: 3.220 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

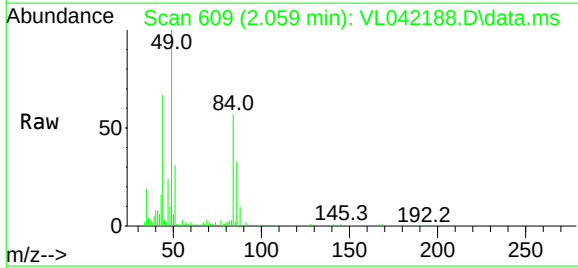
Tgt Ion: 43 Resp: 83691
Ion Ratio Lower Upper
43 100
58 24.7 23.2 34.8





#20
Methylene Chloride
Concen: 0.783 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

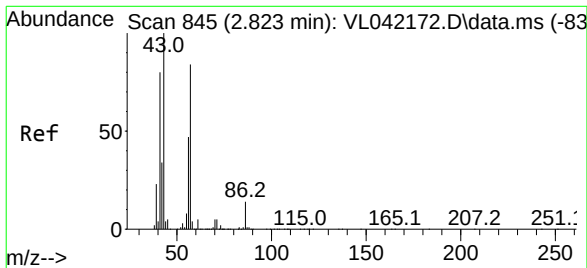
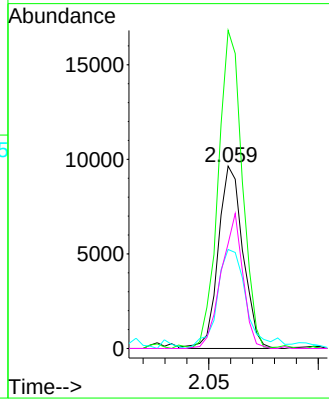
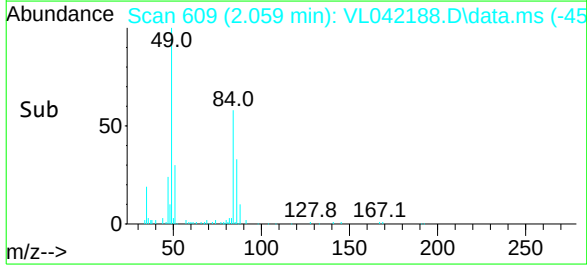
Instrument : MSVOA_L
ClientSampleId : AA-1-3262025



Tgt Ion:	84	Resp:	7575
Ion	Ratio	Lower	Upper
84	100		
49	173.6	120.2	180.4
51	53.1	37.4	56.0
86	57.4	52.4	78.6

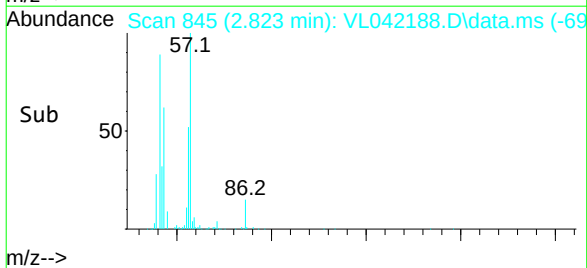
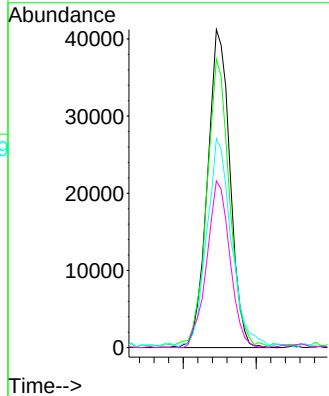
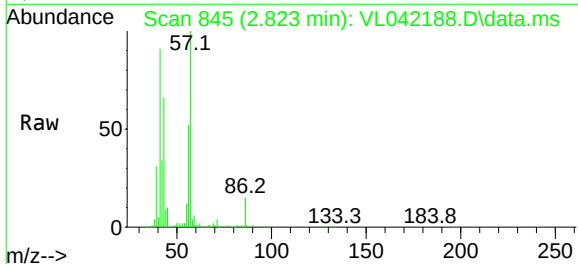
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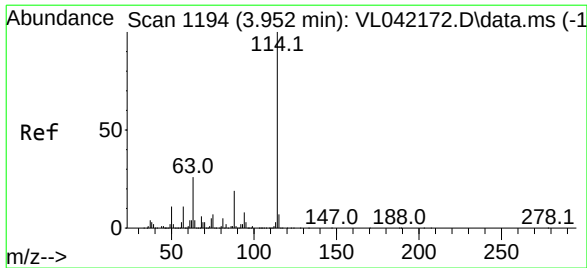
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 1.696 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

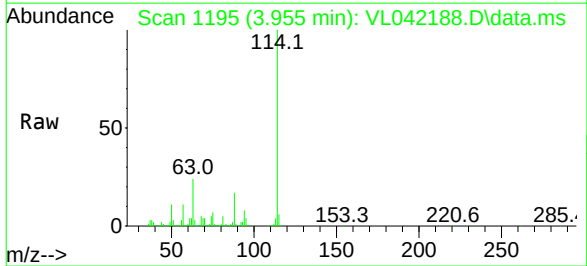
Tgt Ion:	57	Resp:	44184
Ion	Ratio	Lower	Upper
57	100		
41	91.3	76.6	114.8
43	74.7	207.8	311.8#
56	53.9	43.6	65.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

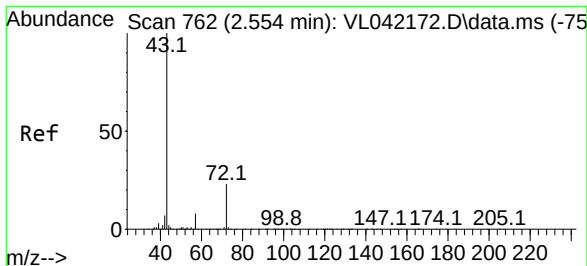
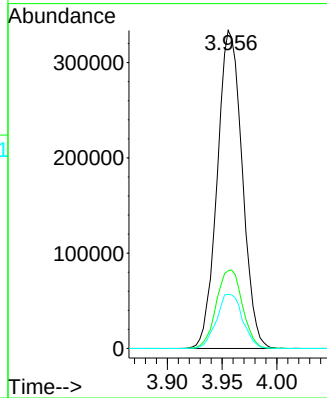
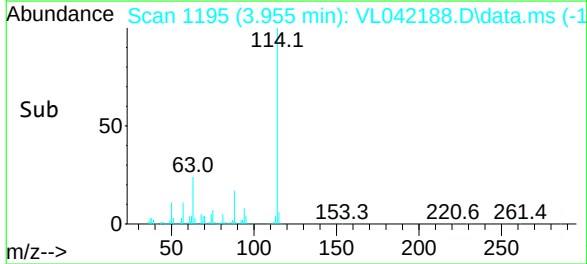
Instrument :
MSVOA_L
ClientSampleId :
AA-1-3262025



Tgt Ion: 114 Resp: 529516
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 17.8 15.0 22.4

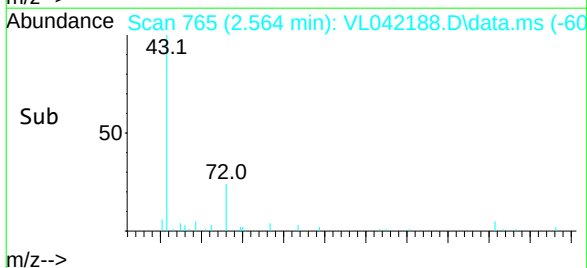
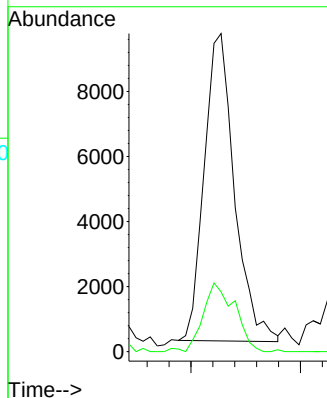
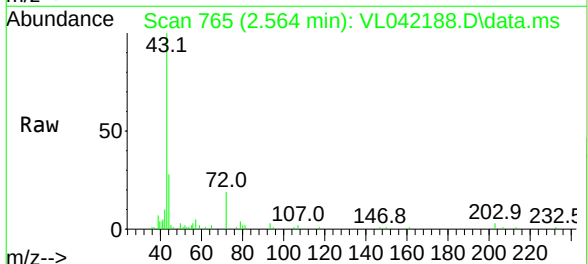
Manual Integrations
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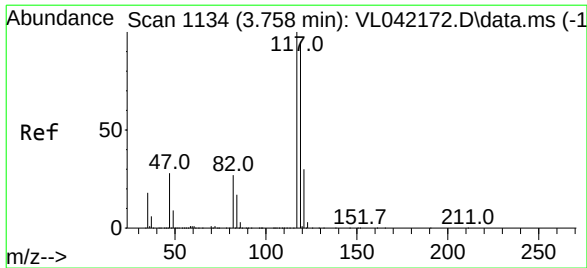
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 0.236 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Tgt Ion: 43 Resp: 9069
Ion Ratio Lower Upper
43 100
72 23.6 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 3.758 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

Instrument :

MSVOA_L

ClientSampleId :

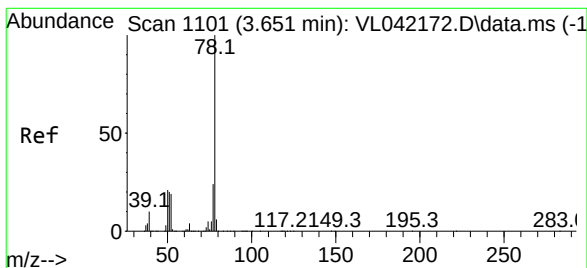
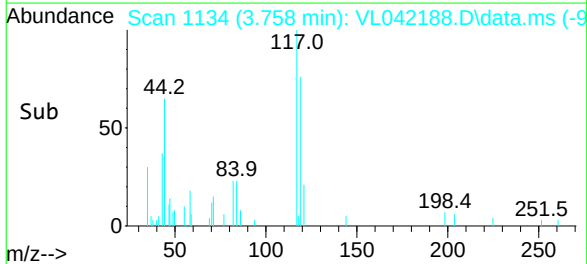
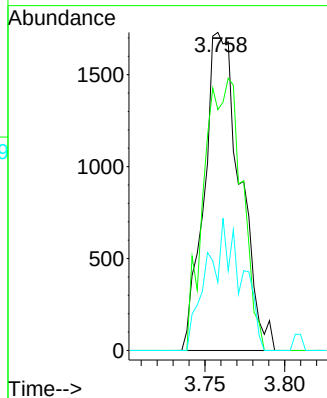
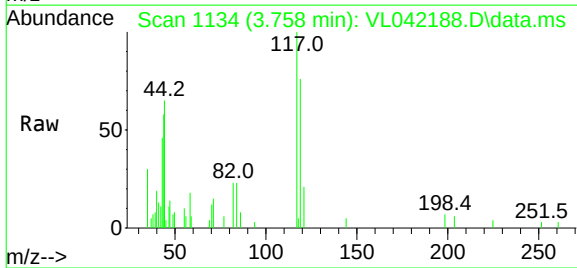
AA-1-3262025

Tgt Ion:	117	Resp:	2713
Ion	Ratio	Lower	Upper
117	100		
119	75.7	76.2	114.2#
121	21.4	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: 0.307 ppbv

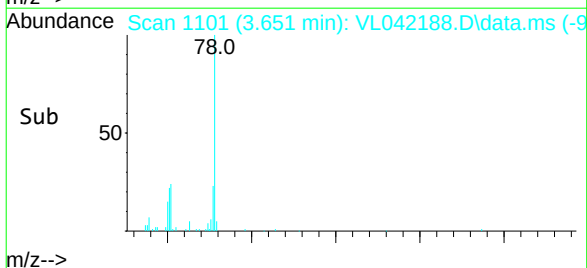
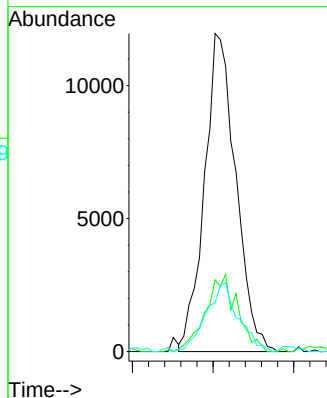
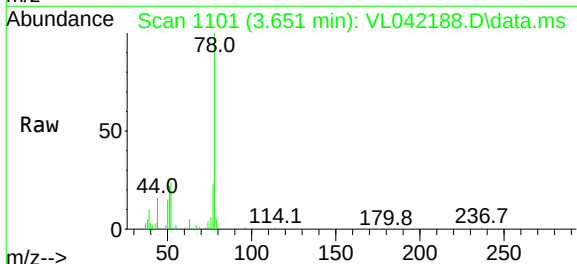
RT: 3.651 min Scan# 1101

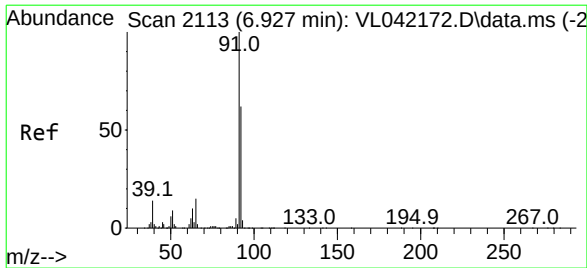
Delta R.T. -0.000 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

Tgt Ion:	78	Resp:	16130
Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.1	28.7
50	14.8	16.6	24.8#





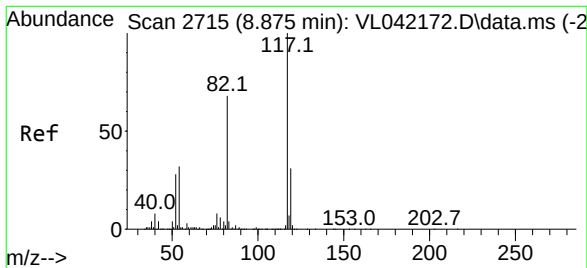
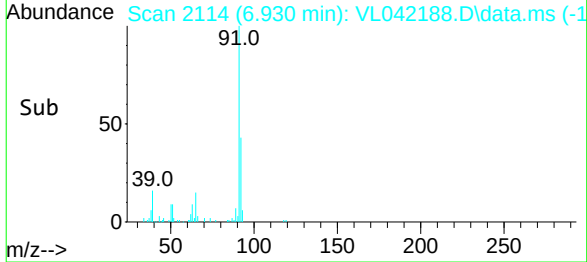
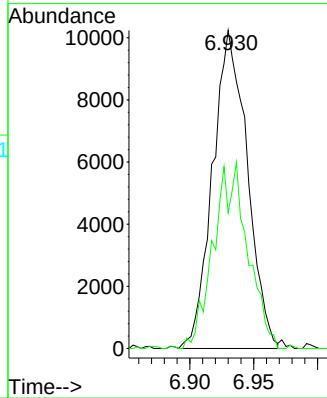
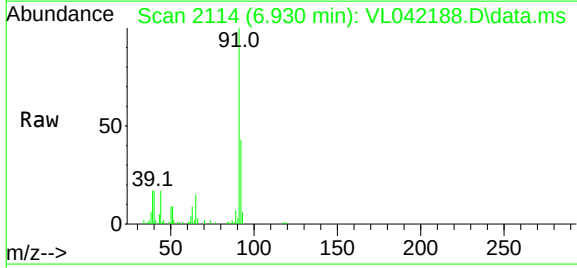
#53
Toluene
Concen: 0.309 ppbv
RT: 6.930 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Instrument :
MSVOA_L
ClientSampleId :
AA-1-3262025

Tgt Ion: 91 Resp: 19259
Ion Ratio Lower Upper
91 100
92 58.4 48.4 72.6

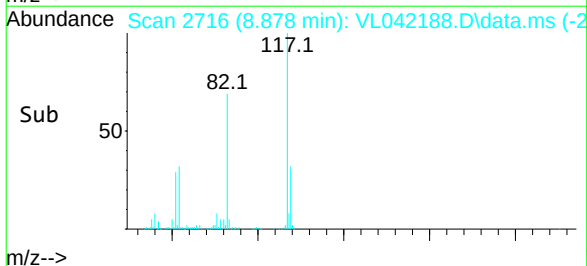
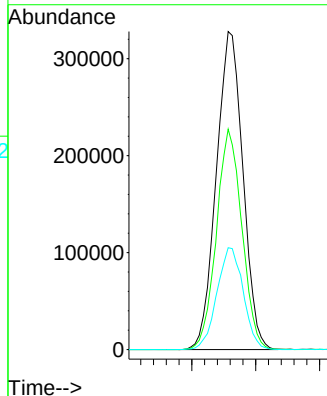
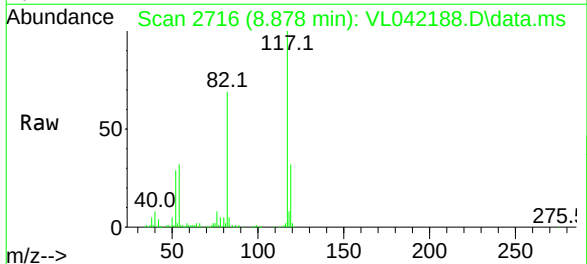
Manual Integrations
APPROVED

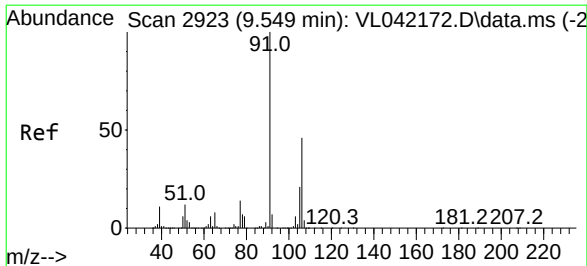
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042188.D
Acq: 27 Mar 2025 20:12

Tgt Ion:117 Resp: 474604
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 31.6 25.5 38.3





#59

m/p-Xylene

Concen: 0.124 ppbv m

RT: 9.529 min Scan# 29

Delta R.T. -0.020 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

Instrument :

MSVOA_L

ClientSampleId :

AA-1-3262025

Tgt Ion: 91 Resp: 8368

Ion Ratio Lower Upper

91 100

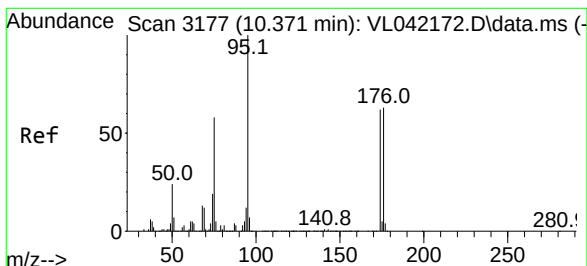
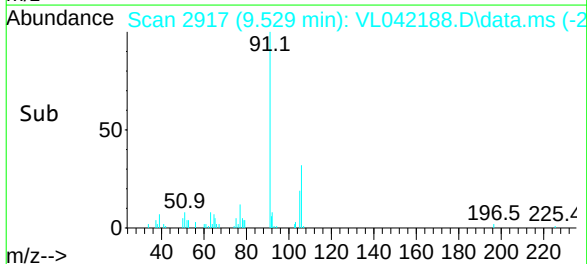
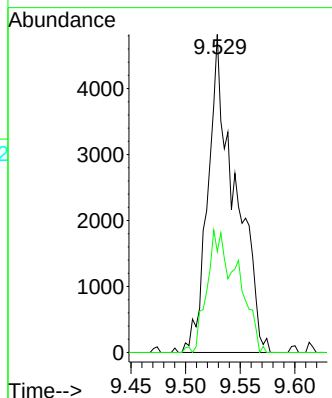
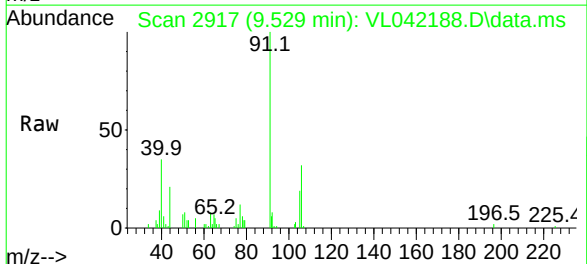
106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.925 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

Tgt Ion: 95 Resp: 386837

Ion Ratio Lower Upper

95 100

174 59.7 50.6 76.0

175 4.6 3.8 5.6

