

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041968.D
 Acq On : 03 Feb 2025 17:08
 Operator : SY/MD
 Sample : Q1222-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:39:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151310	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	428310	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	371013	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 283971 9.718 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8269	0.401	ppbv	97
3) Chlorodifluoromethane	1.479	51	6430m	0.298	ppbv	
4) Chloromethane	1.534	50	4372	0.564	ppbv	95
9) Propene	1.489	41	57372m	6.450	ppbv	
10) Heptane	4.998	43	116074	4.882	ppbv	97
11) Trichlorofluoromethane	1.884	101	4568	0.213	ppbv	89
13) Ethanol	1.725	45	514568	789.838	ppbv	88
15) Acetone	1.839	43	302369	16.638	ppbv	92
19) Isopropyl Alcohol	1.890	45	269134	24.977	ppbv #	34
20) Methylene Chloride	2.068	84	2500	0.348	ppbv #	83
26) Hexane	2.835	57	15435	0.796	ppbv #	69
29) Chloroform	2.858	83	11809	0.385	ppbv #	81
30) Cyclohexane	3.871	84	10357	0.616	ppbv	93
34) 2-Butanone	2.567	43	38831	1.426	ppbv	98
35) Carbon Tetrachloride	3.777	117	2093m	0.078	ppbv	
36) Benzene	3.667	78	14531	0.370	ppbv #	90
41) Tetrahydrofuran	3.075	42	8951m	0.605	ppbv	
44) 2,2,4-Trimethylpentane	4.658	57	20396	0.321	ppbv #	64
52) Tetrachloroethene	8.237	164	1063m	0.078	ppbv	
53) Toluene	6.952	91	61026	1.426	ppbv	99
58) Ethyl Benzene	9.370	91	11969	0.206	ppbv	98
59) m/p-Xylene	9.542	91	48878m	1.052	ppbv	
60) o-Xylene	9.975	91	18381	0.398	ppbv	94
74) 1,2,4-Trimethylbenzene	11.545	105	18157	0.344	ppbv #	57

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

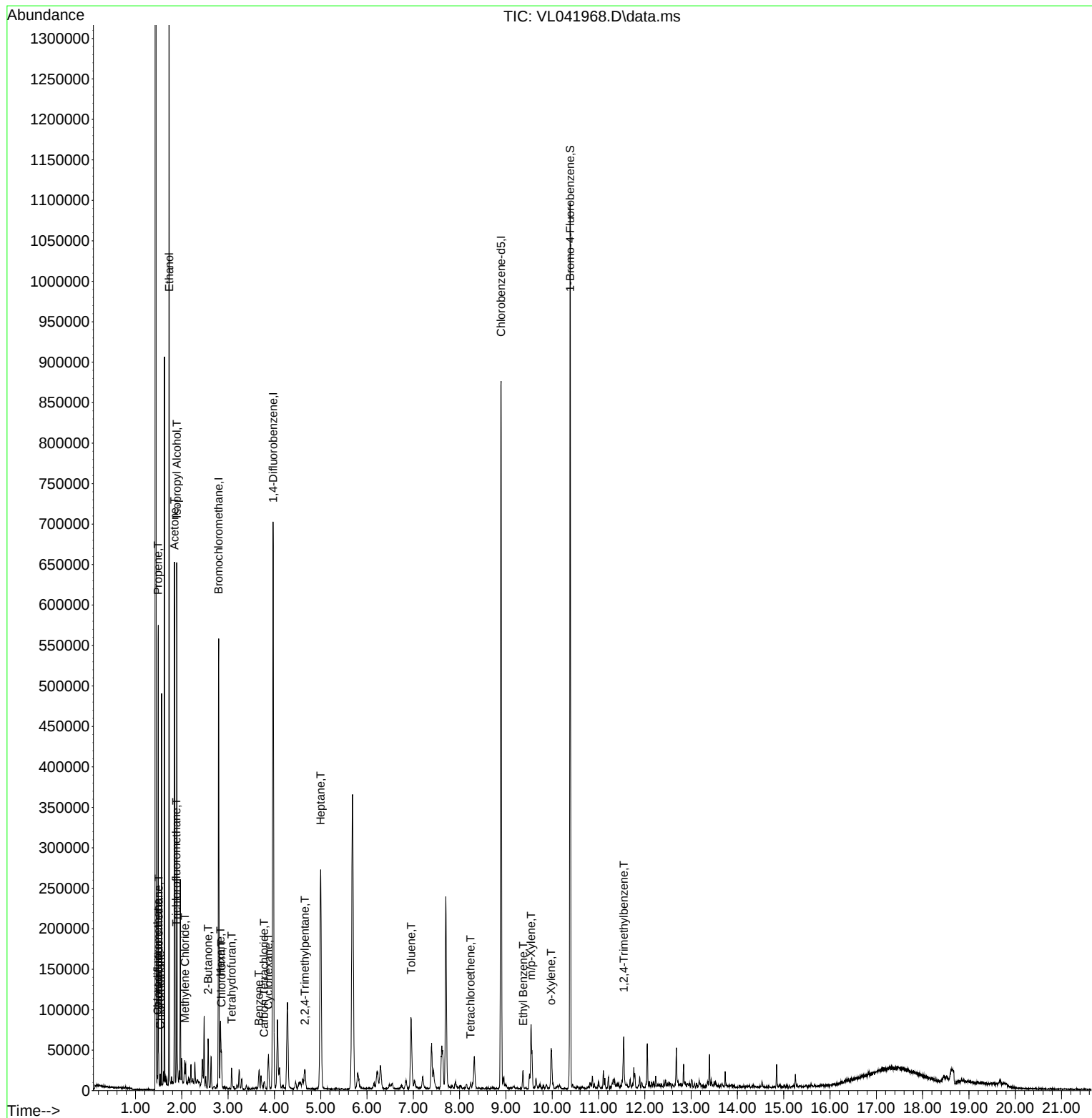
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041968.D
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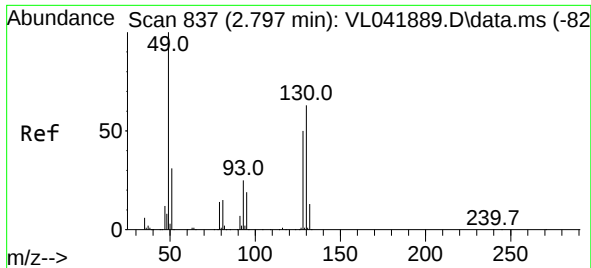
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Feb 04 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

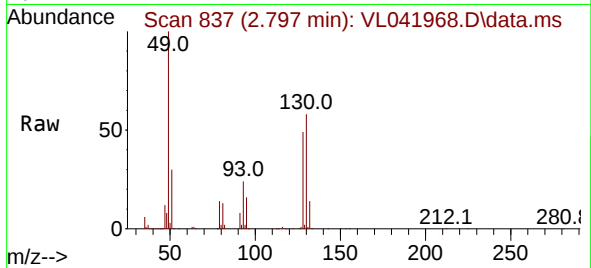
Reviewed By : Semsettin Yesilyurt 02/04/2025
Supervised By : Mahesh Dadoda 02/04/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 837
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

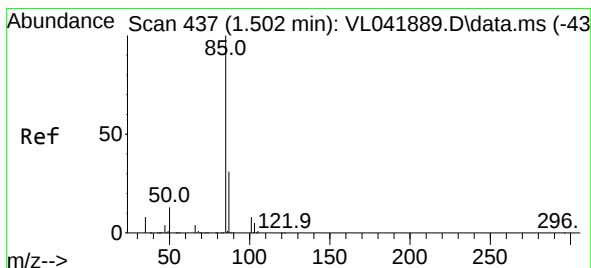
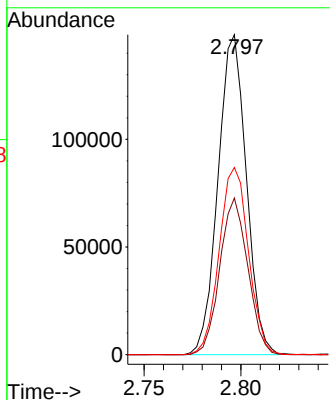
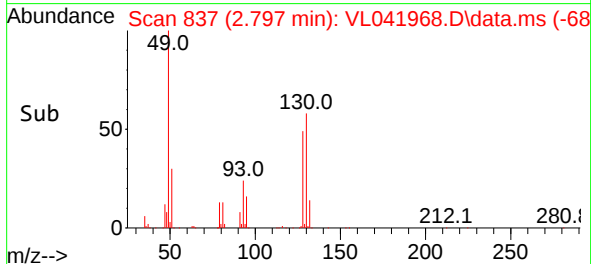
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



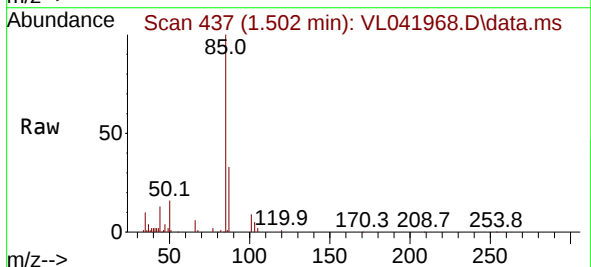
Tgt Ion: 49 Resp: 151310
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 60.6 31.1 93.2

Manual Integrations
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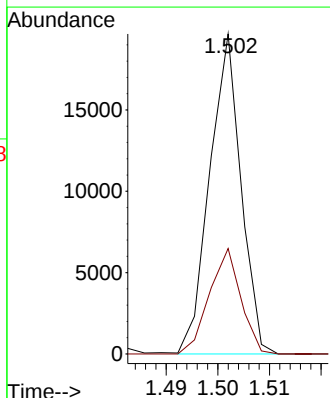
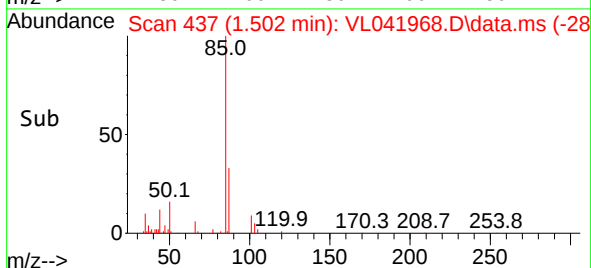
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

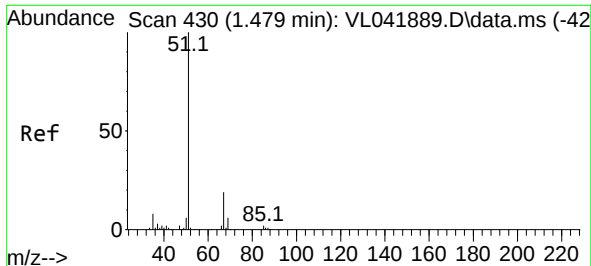


#2
Dichlorodifluoromethane
Concen: 0.401 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08



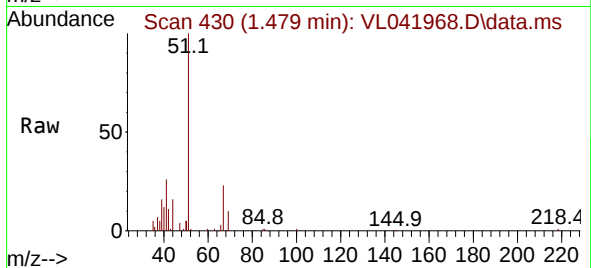
Tgt Ion: 85 Resp: 8269
Ion Ratio Lower Upper
85 100
87 33.0 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.298 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

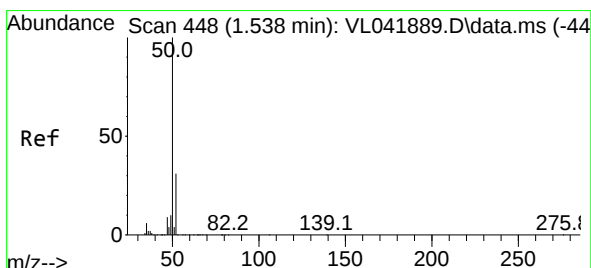
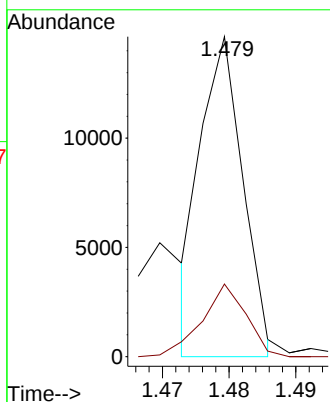
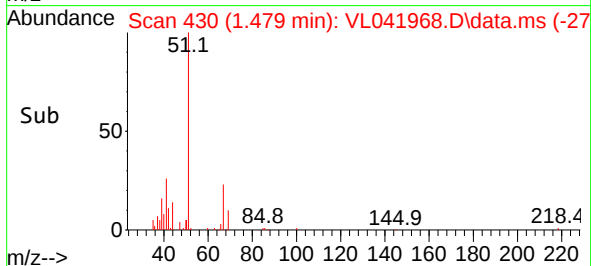
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



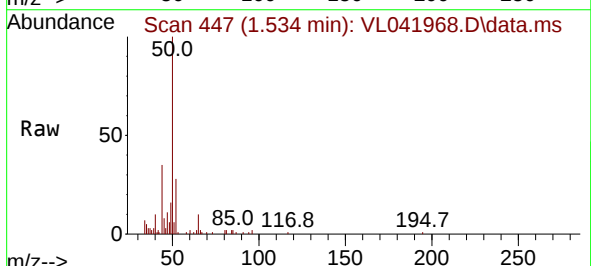
Tgt Ion: 51 Resp: 6430
Ion Ratio Lower Upper
51 100
67 23.9 15.0 22.4

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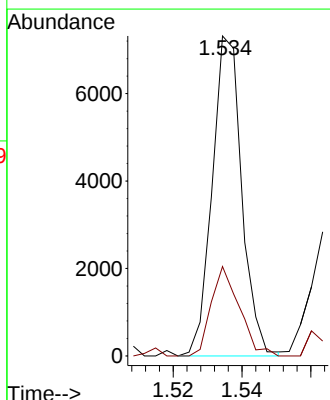
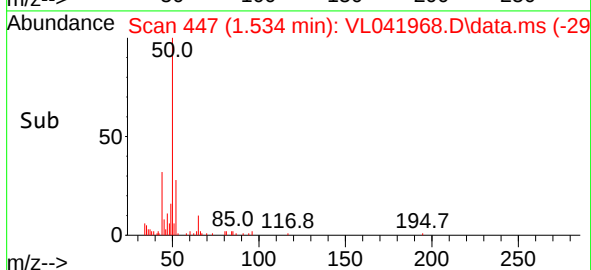
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

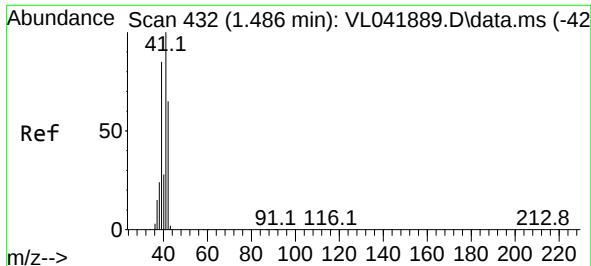


#4
Chloromethane
Concen: 0.564 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08



Tgt Ion: 50 Resp: 4372
Ion Ratio Lower Upper
50 100
52 27.9 24.6 36.8





#9

Propene

Concen: 6.450 ppbv m

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 57372

Ion Ratio Lower Upper

41 100

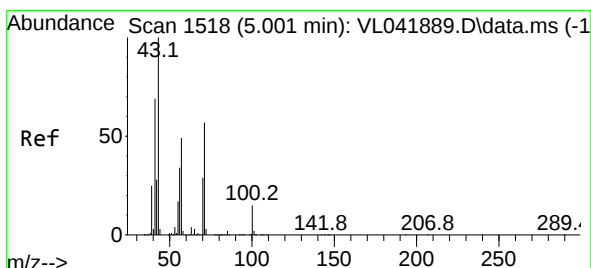
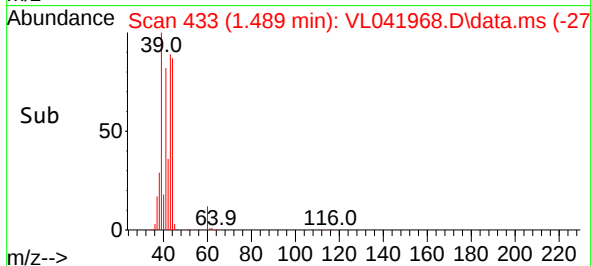
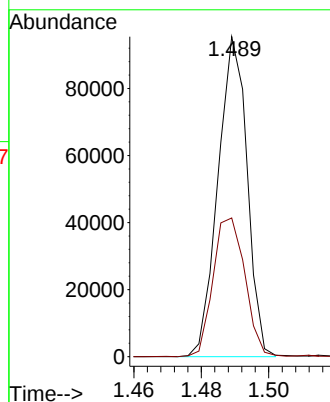
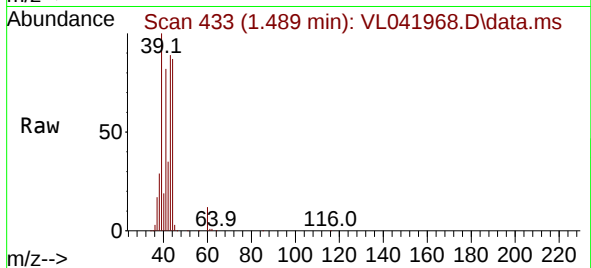
42 61.2 52.0 78.0

Manual Integrations

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Supervised By :Mahesh Dadoda 02/04/2025



#10

Heptane

Concen: 4.882 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. -0.003 min

Lab File: VL041968.D

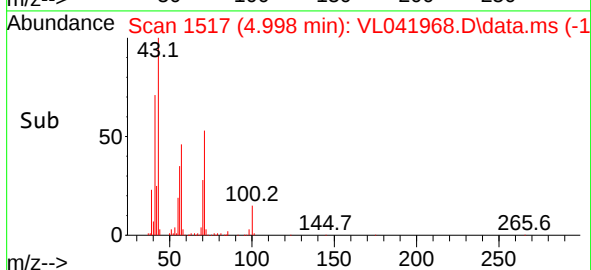
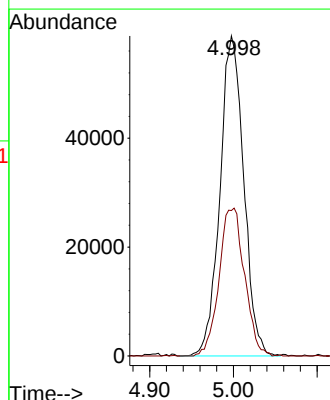
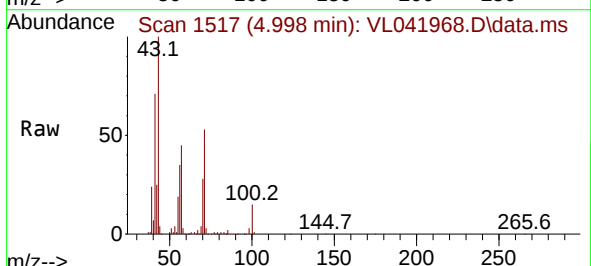
Acq: 03 Feb 2025 17:08

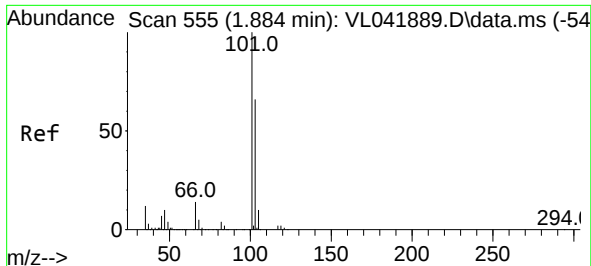
Tgt Ion: 43 Resp: 116074

Ion Ratio Lower Upper

43 100

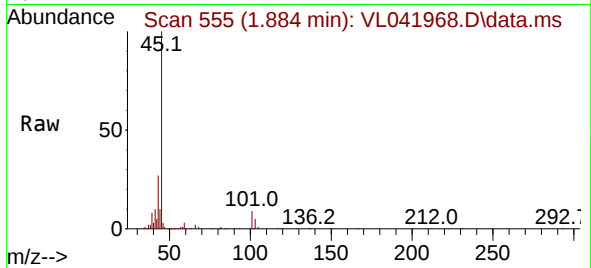
57 49.4 41.0 61.4





#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.884 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

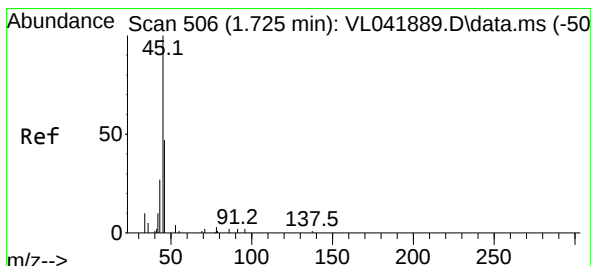
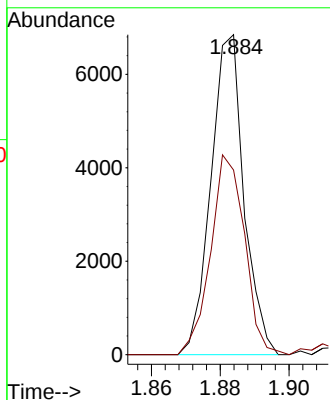
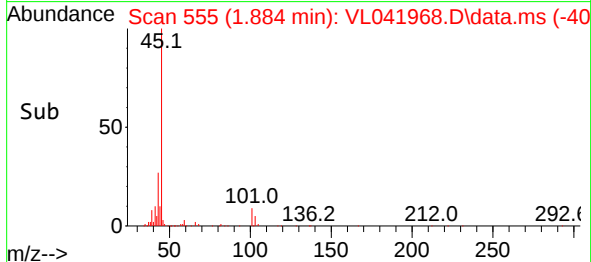
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



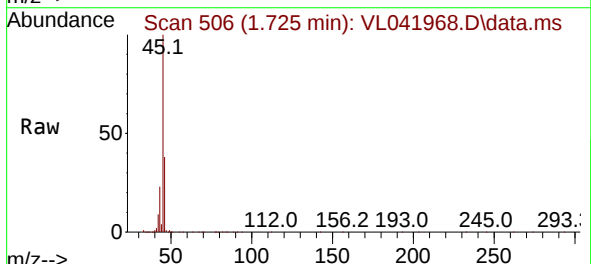
Tgt Ion:101 Resp: 4568
Ion Ratio Lower Upper
101 100
103 57.7 53.1 79.7

Manual Integrations
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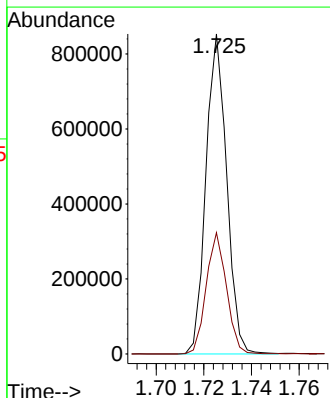
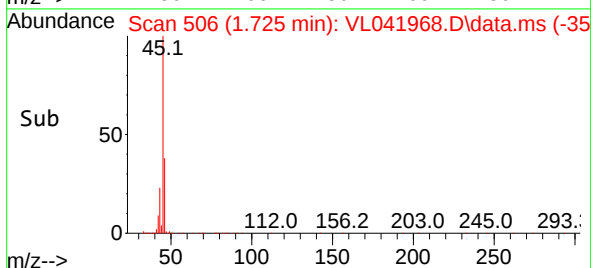
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

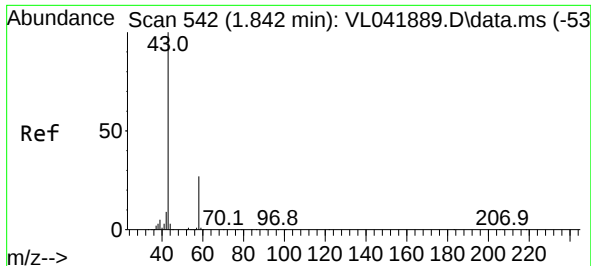


#13
Ethanol
Concen: 789.838 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08



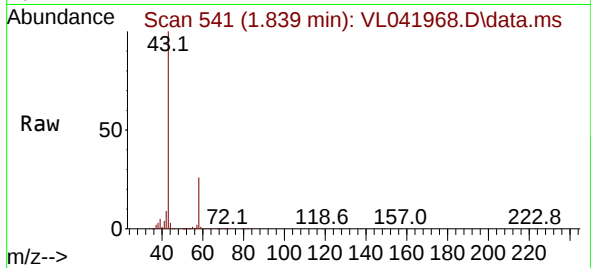
Tgt Ion: 45 Resp: 514568
Ion Ratio Lower Upper
45 100
46 37.3 18.1 72.5





#15
Acetone
Concen: 16.638 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

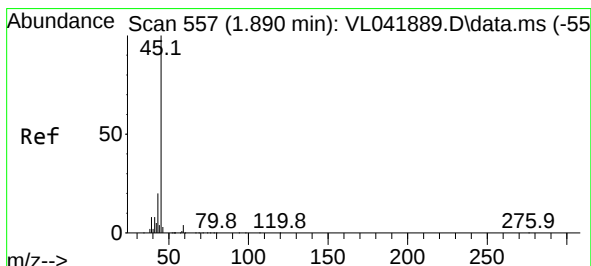
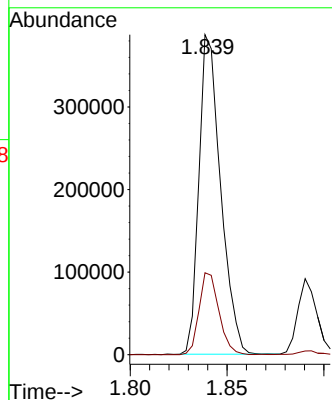
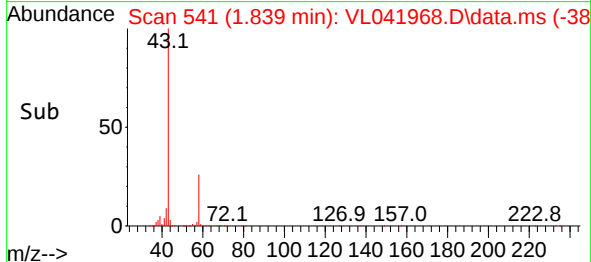
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 302369
Ion Ratio Lower Upper
43 100
58 23.5 21.9 32.9

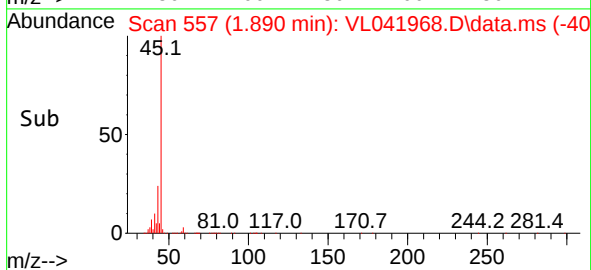
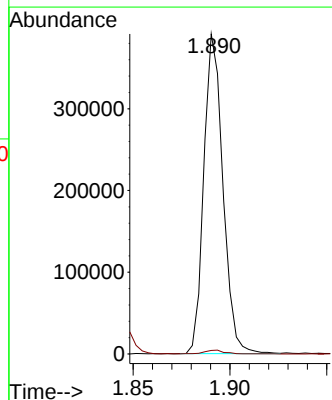
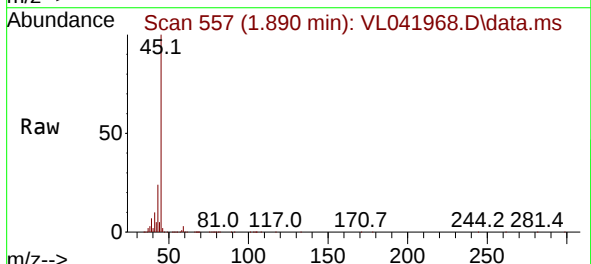
Manual Integrations
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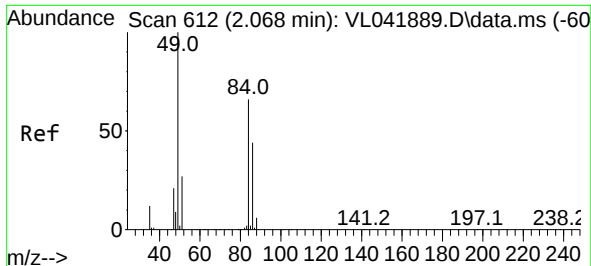
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#19
Isopropyl Alcohol
Concen: 24.977 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

Tgt Ion: 45 Resp: 269134
Ion Ratio Lower Upper
45 100
58 1.2 35.0 52.6#





#20

Methylene Chloride

Concen: 0.348 ppbv

RT: 2.068 min Scan# 612

Delta R.T. -0.000 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 84 Resp: 2500

Ion Ratio Lower Upper

84 100

49 125.9 123.1 184.7

51 34.1 35.8 53.8

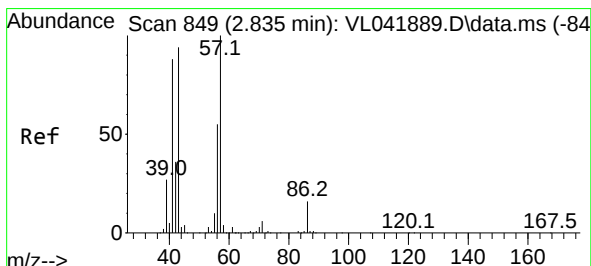
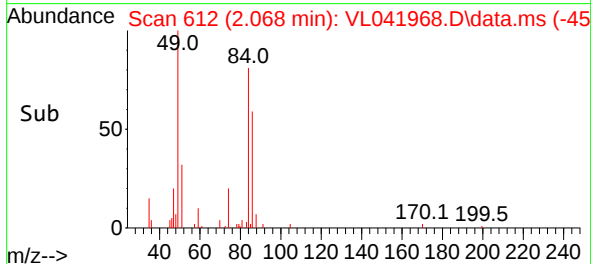
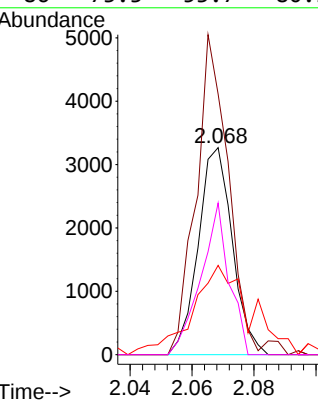
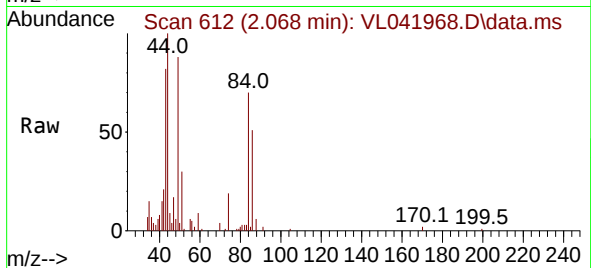
86 73.3 53.7 80.5

Manual Integrations

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Supervised By :Mahesh Dadoda 02/04/2025



#26

Hexane

Concen: 0.796 ppbv

RT: 2.835 min Scan# 849

Delta R.T. -0.000 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

Tgt Ion: 57 Resp: 15435

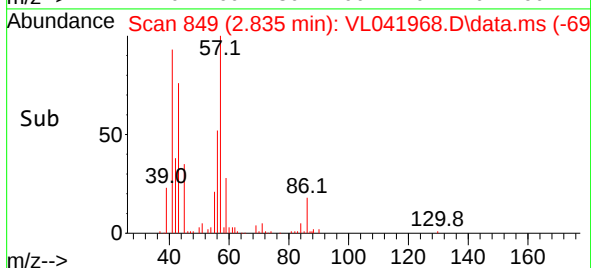
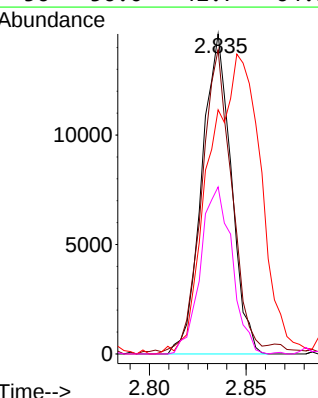
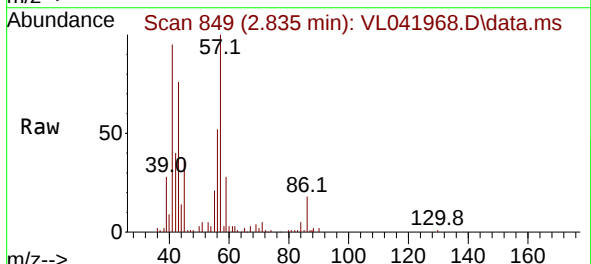
Ion Ratio Lower Upper

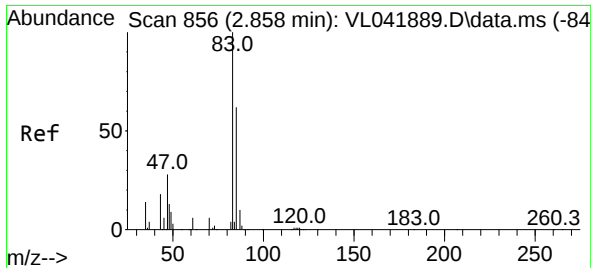
57 100

41 101.1 73.8 110.8

43 168.3 197.3 295.9

56 56.0 42.7 64.1





#29

Chloroform

Concen: 0.385 ppbv

RT: 2.858 min Scan# 856

Delta R.T. -0.000 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

Instrument :

MSVOA_L

ClientSampleId :

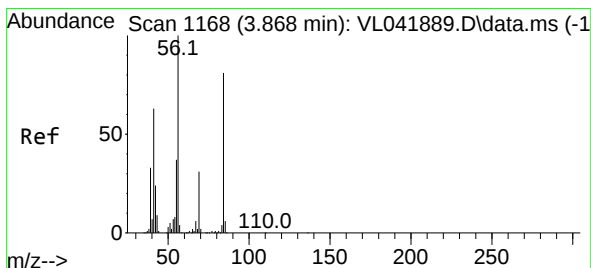
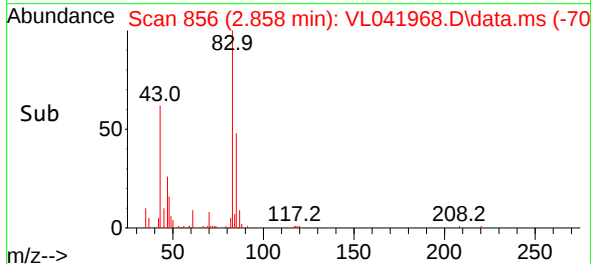
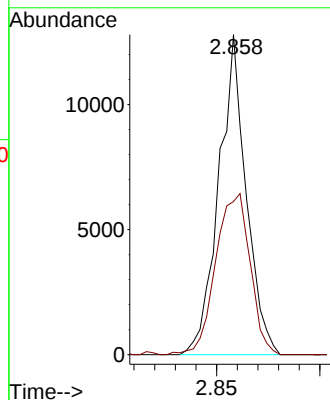
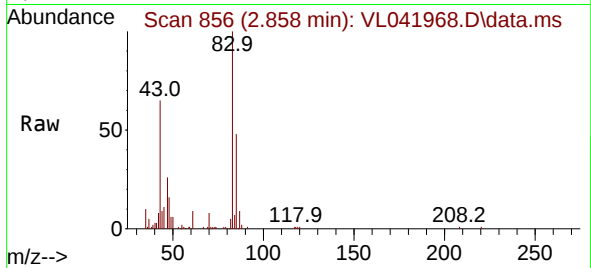
IA1DUP

Tgt Ion: 83 Resp: 11809
 Ion Ratio Lower Upper
 83 100
 85 47.8 50.1 75.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025



#30

Cyclohexane

Concen: 0.616 ppbv

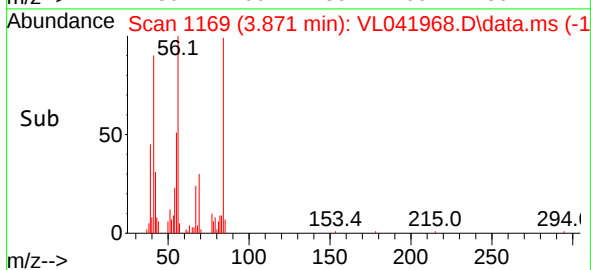
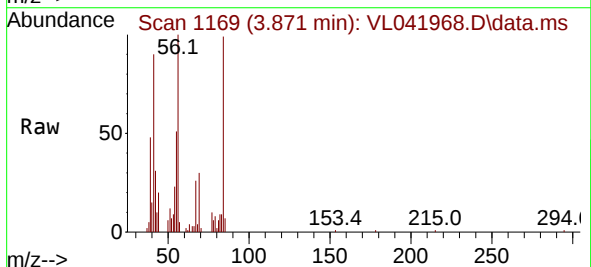
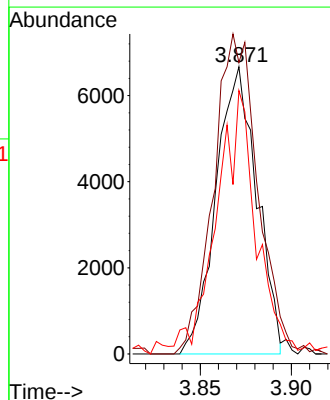
RT: 3.871 min Scan# 1169

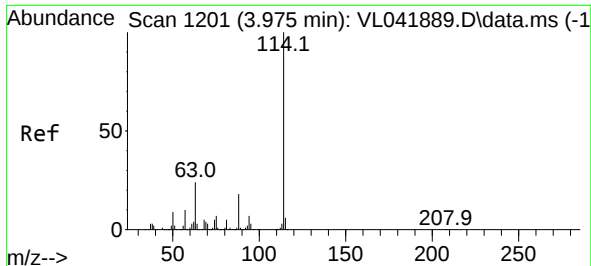
Delta R.T. 0.003 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

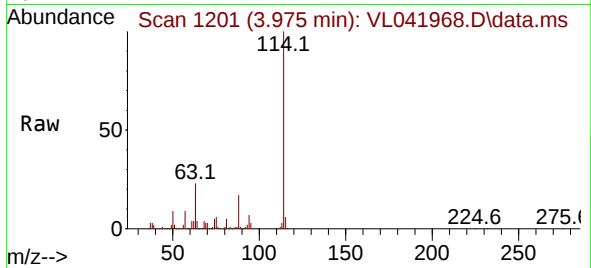
Tgt Ion: 84 Resp: 10357
 Ion Ratio Lower Upper
 84 100
 56 121.6 99.3 148.9
 41 92.8 64.3 96.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

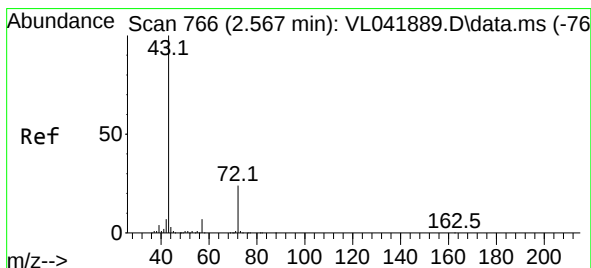
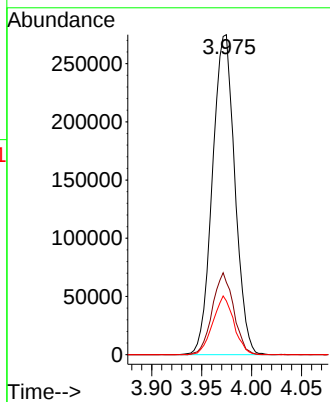
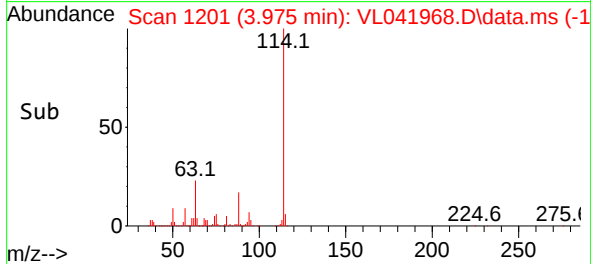
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:114 Resp: 428310
Ion Ratio Lower Upper
114 100
63 24.5 19.8 29.6
88 17.3 14.4 21.6

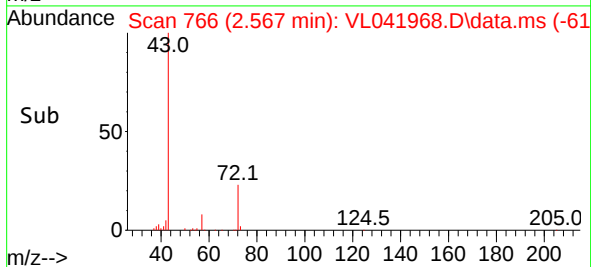
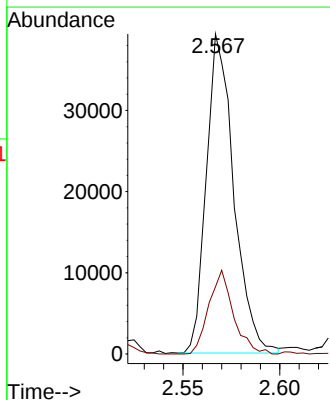
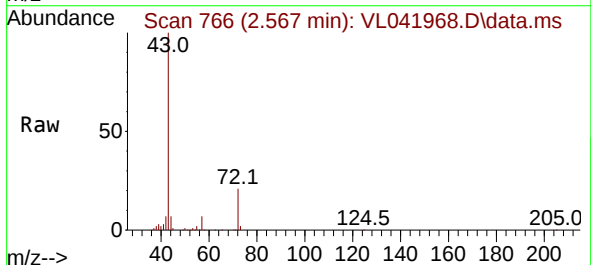
Manual Integrations
APPROVED

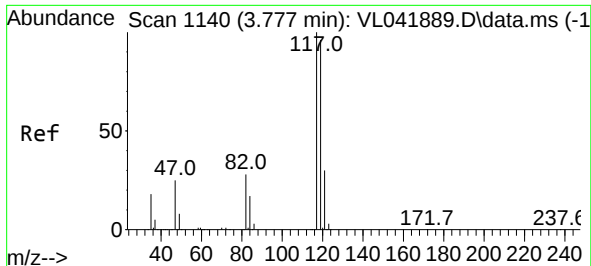
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#34
2-Butanone
Concen: 1.426 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

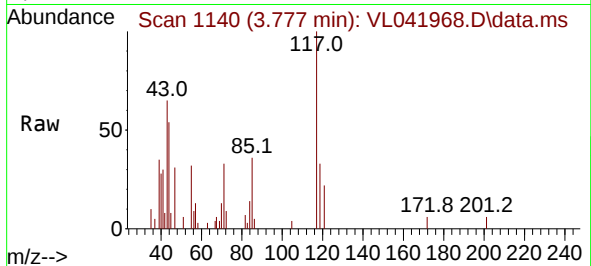
Tgt Ion: 43 Resp: 38831
Ion Ratio Lower Upper
43 100
72 24.1 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

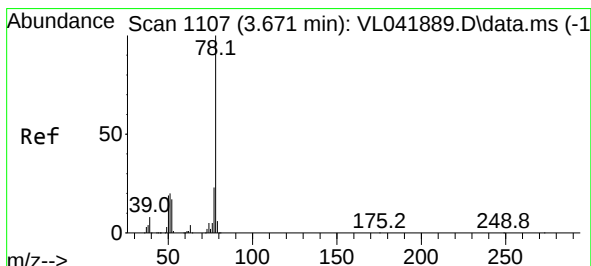
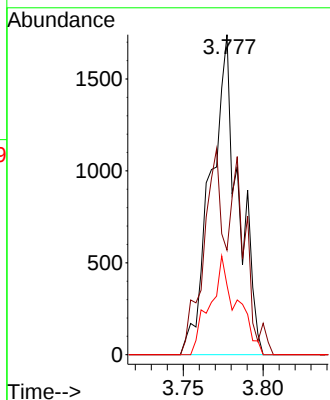
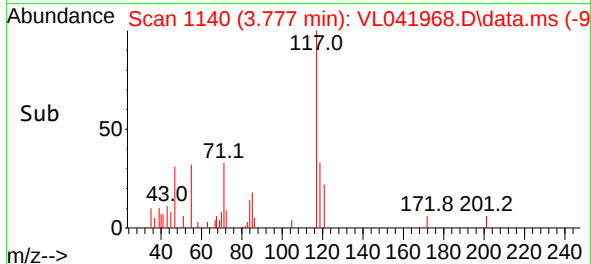
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 209
Ion Ratio Lower Upper
117 100
119 32.7 76.9 115.3
121 21.7 23.8 35.6

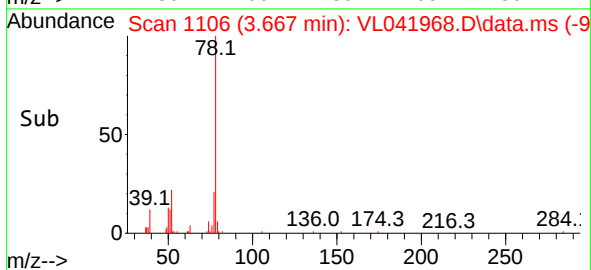
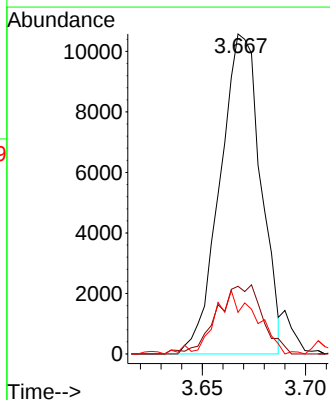
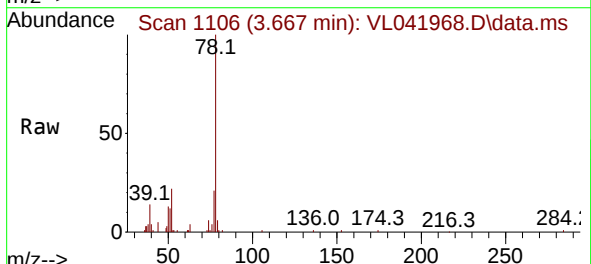
Manual Integrations
APPROVED

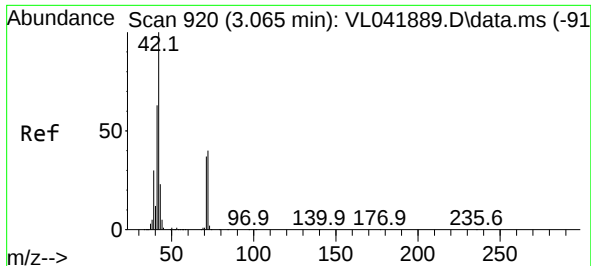
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#36
Benzene
Concen: 0.370 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

Tgt Ion: 78 Resp: 14531
Ion Ratio Lower Upper
78 100
77 20.0 18.1 27.1
50 12.4 15.2 22.8





#41

Tetrahydrofuran

Concen: 0.605 ppbv m

RT: 3.075 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

Instrument :

MSVOA_L

ClientSampleId :

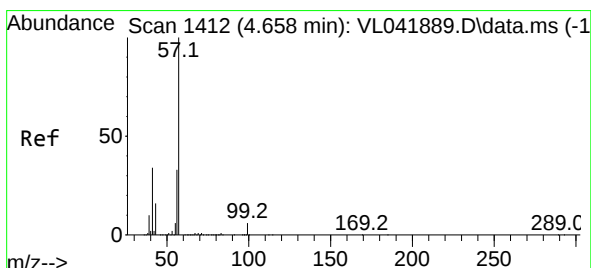
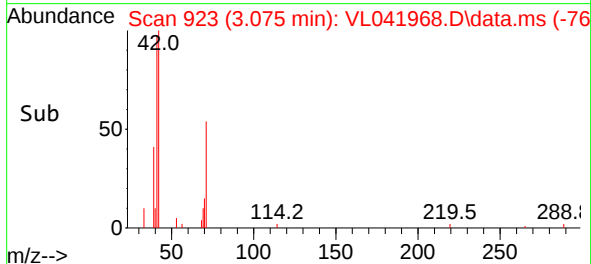
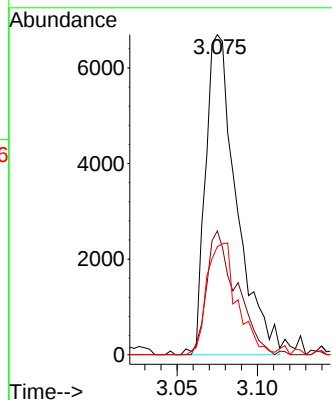
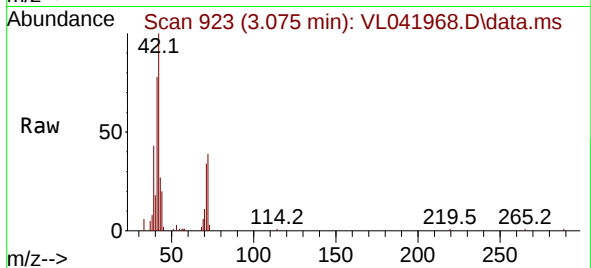
IA1DUP

Tgt Ion:	42	Resp:	895
Ion Ratio	Lower	Upper	
42	100		
72	37.5	32.3	48.5
71	35.0	29.9	44.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#44

2,2,4-Trimethylpentane

Concen: 0.321 ppbv

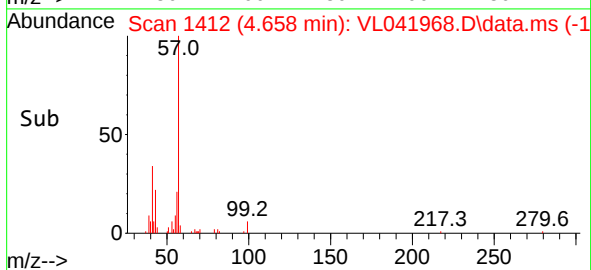
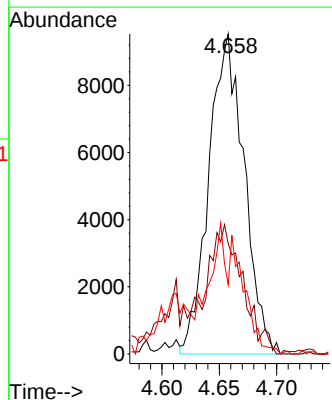
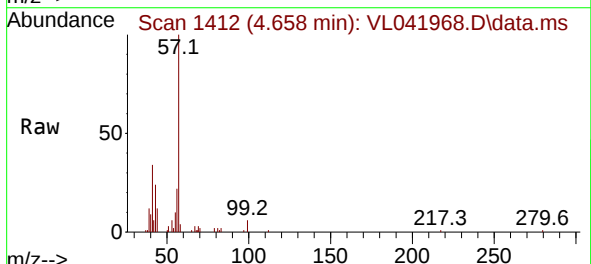
RT: 4.658 min Scan# 1412

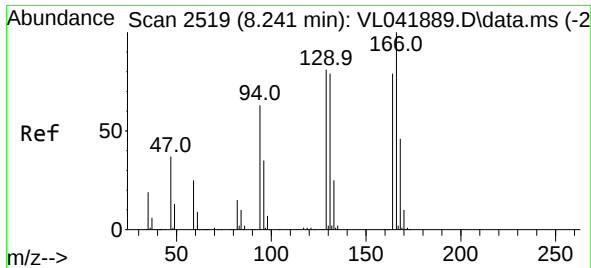
Delta R.T. -0.000 min

Lab File: VL041968.D

Acq: 03 Feb 2025 17:08

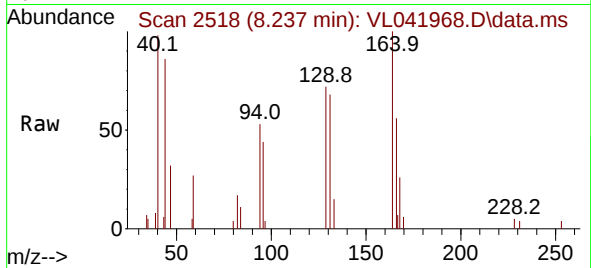
Tgt Ion:	57	Resp:	20396
Ion Ratio	Lower	Upper	
57	100		
41	53.6	26.6	40.0#
56	52.3	25.4	38.2#





#52
Tetrachloroethene
Concen: 0.078 ppbv m
RT: 8.237 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

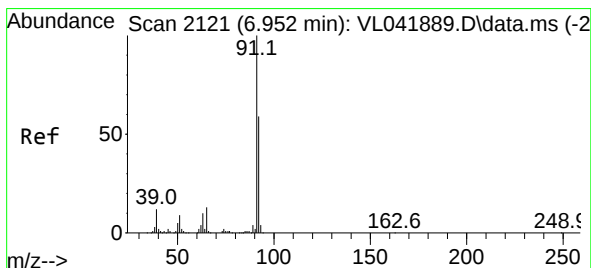
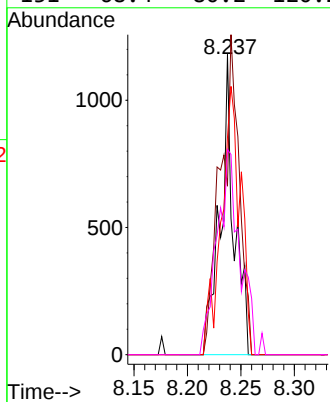
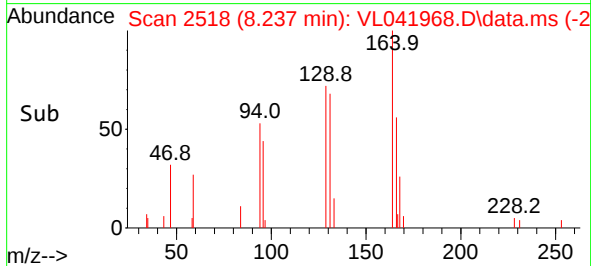
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:164 Resp: 106
Ion Ratio Lower Upper
164 100
166 56.1 100.8 151.2
129 72.4 82.0 123.0
131 68.4 80.2 120.2

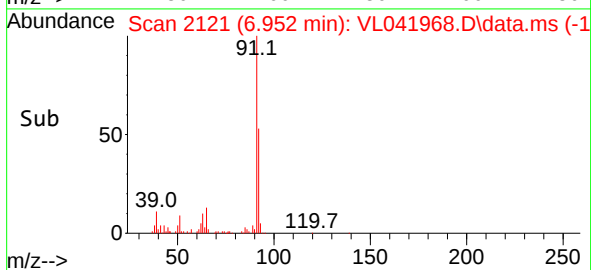
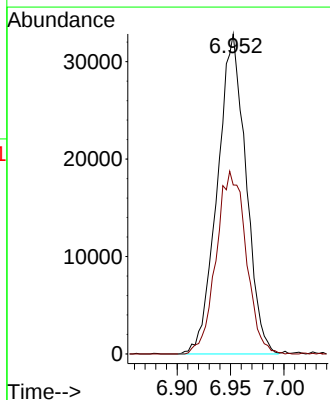
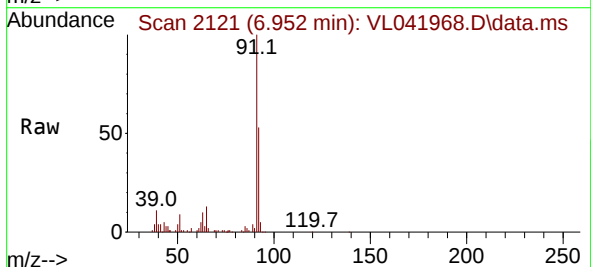
Manual Integrations
APPROVED

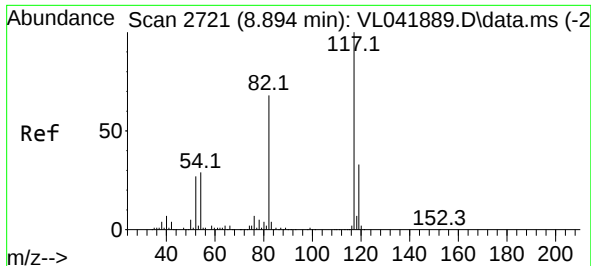
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#53
Toluene
Concen: 1.426 ppbv
RT: 6.952 min Scan# 2121
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

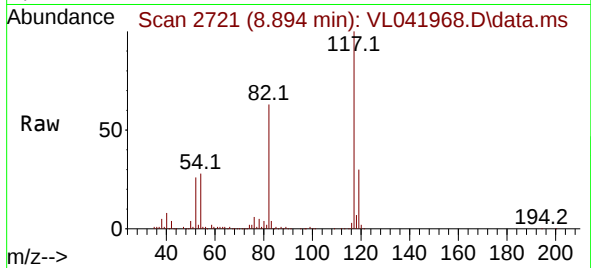
Tgt Ion: 91 Resp: 61026
Ion Ratio Lower Upper
91 100
92 59.8 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. -0.000 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

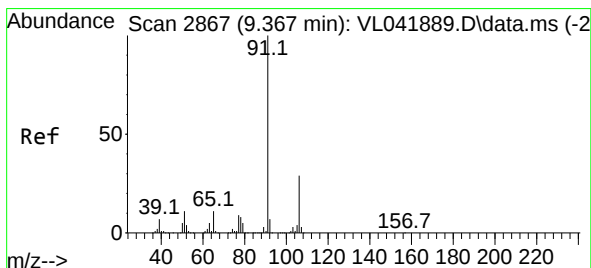
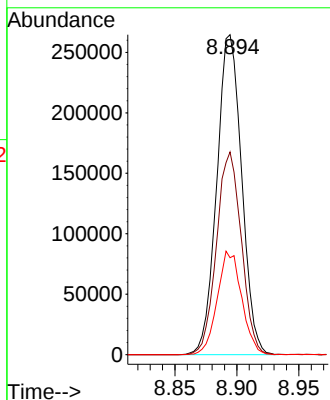
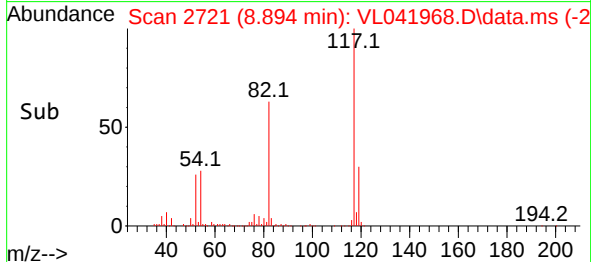
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:117 Resp: 37101
Ion Ratio Lower Upper
117 100
82 63.2 54.2 81.4
119 31.6 25.0 37.6

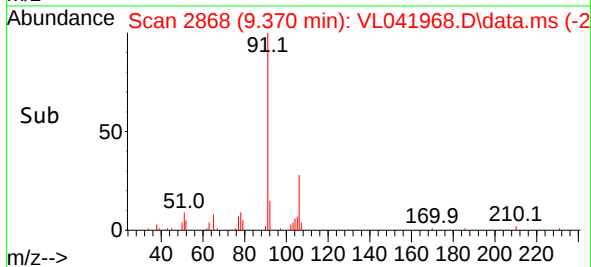
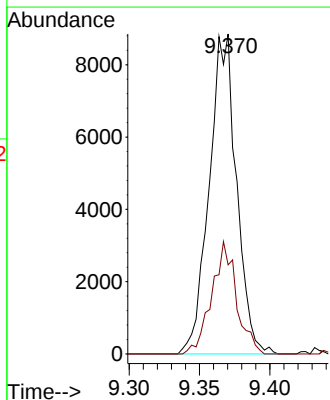
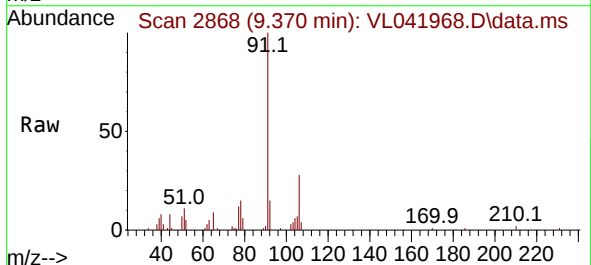
Manual Integrations
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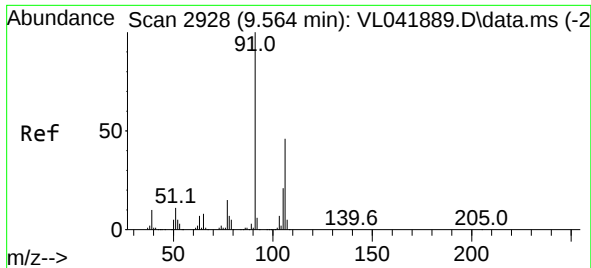
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#58
Ethyl Benzene
Concen: 0.206 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

Tgt Ion: 91 Resp: 11969
Ion Ratio Lower Upper
91 100
106 27.8 23.1 34.7





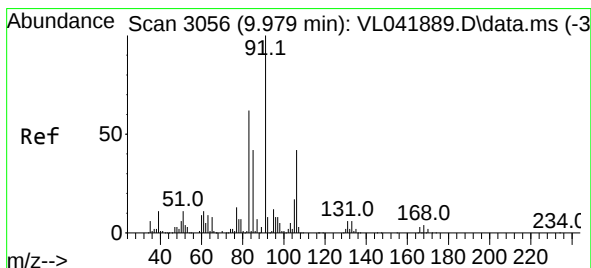
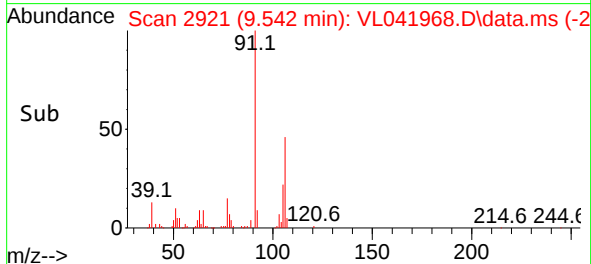
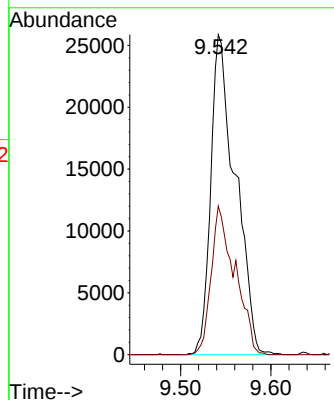
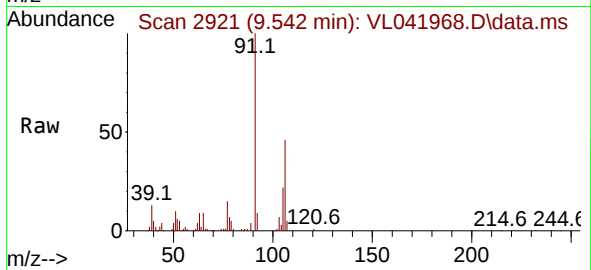
#59
m/p-Xylene
Concen: 1.052 ppbv m
RT: 9.542 min Scan# 2928
Delta R.T. -0.023 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 48878
Ion Ratio Lower Upper
91 100
106 45.0 36.0 54.0

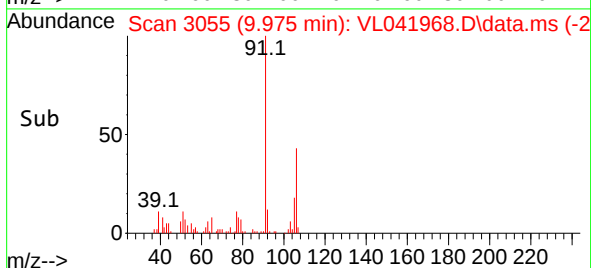
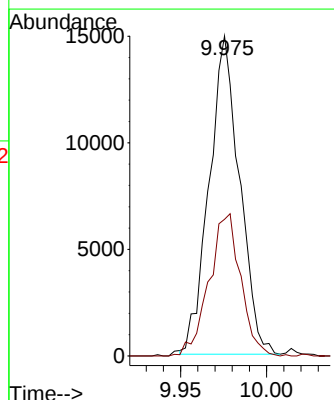
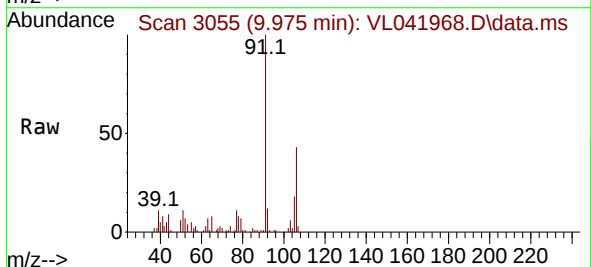
Manual Integrations
APPROVED

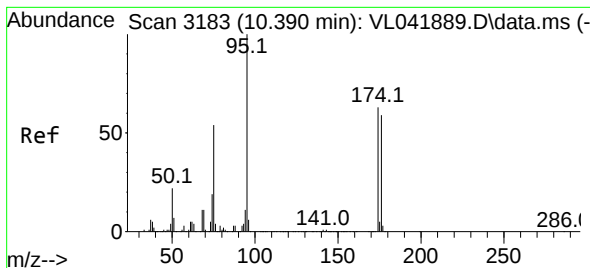
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#60
o-Xylene
Concen: 0.398 ppbv
RT: 9.975 min Scan# 3055
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

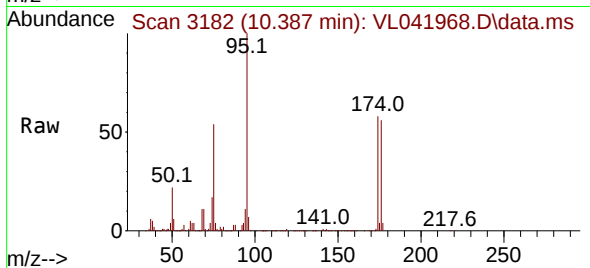
Tgt Ion: 91 Resp: 18381
Ion Ratio Lower Upper
91 100
106 46.5 21.3 63.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.718 ppbv
RT: 10.387 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

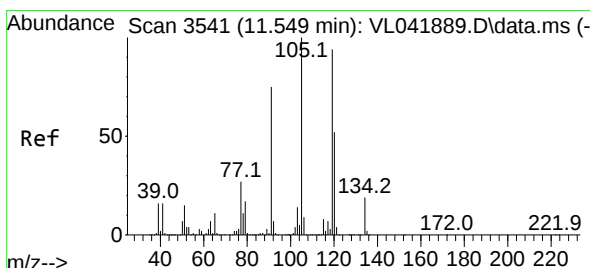
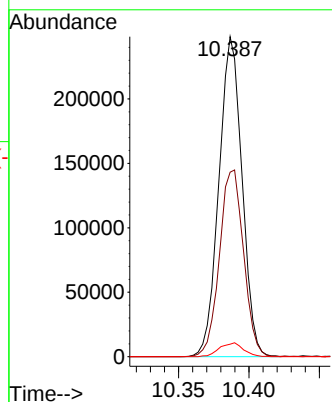
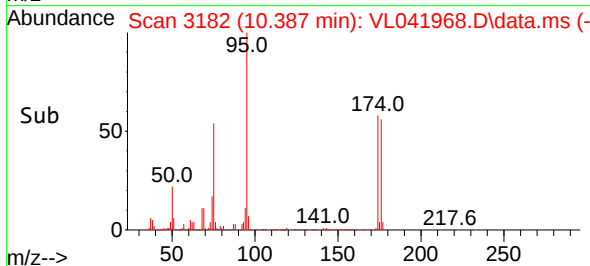
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 95 Resp: 28397
Ion Ratio Lower Upper
95 100
174 61.1 49.0 73.4
175 4.5 3.8 5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.344 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.003 min
Lab File: VL041968.D
Acq: 03 Feb 2025 17:08

Tgt Ion:105 Resp: 18157
Ion Ratio Lower Upper
105 100
120 44.6 41.4 62.2
91 13.5 60.2 90.2#
77 13.9 22.0 33.0#

