

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042249.D
 Acq On : 08 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1725-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:39:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

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	2.807	49	197758	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	506596	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.908	117	465539	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.400	95	381596	9.981	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	10548	0.361	ppbv	90
3) Chlorodifluoromethane	1.486	51	3867m	0.130	ppbv	
9) Propene	1.496	41	19346m	1.415	ppbv	
10) Heptane	5.024	43	22305	0.613	ppbv #	84
11) Trichlorofluoromethane	1.891	101	6666	0.235	ppbv	97
13) Ethanol	1.732	45	236496	182.981	ppbv	83
15) Acetone	1.845	43	779996	28.202	ppbv	96
17) tert-Butyl alcohol	2.056	59	27696m	0.804	ppbv	
19) Isopropyl Alcohol	1.900	45	271152	17.376	ppbv #	52
20) Methylene Chloride	2.075	84	11817	1.147	ppbv	93
26) Hexane	2.849	57	27836	1.004	ppbv #	39
29) Chloroform	2.871	83	95587	2.356	ppbv	94
32) 1,1,1-Trichloroethane	3.386	97	1528m	0.033	ppbv	
34) 2-Butanone	2.577	43	55098	1.500	ppbv	100
35) Carbon Tetrachloride	3.790	117	3565m	0.090	ppbv	
36) Benzene	3.680	78	24686	0.492	ppbv #	90
38) Trichloroethene	4.583	130	5516m	0.263	ppbv	
44) 2,2,4-Trimethylpentane	4.677	57	24653m	0.290	ppbv	
52) Tetrachloroethene	8.251	164	14870m	0.747	ppbv	
53) Toluene	6.972	91	258006	4.334	ppbv	100
58) Ethyl Benzene	9.383	91	72131	0.872	ppbv	96
59) m/p-Xylene	9.558	91	284370	4.307	ppbv	100
60) o-Xylene	9.992	91	118466	1.790	ppbv	97
64) n-propylbenzene	11.011	120	5944	0.233	ppbv	96
73) 1,3,5-Trimethylbenzene	11.225	105	31326	0.435	ppbv	100
74) 1,2,4-Trimethylbenzene	11.558	105	144819	1.746	ppbv #	65
75) 1,3-Dichlorobenzene	11.626	146	7305	0.161	ppbv	93

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

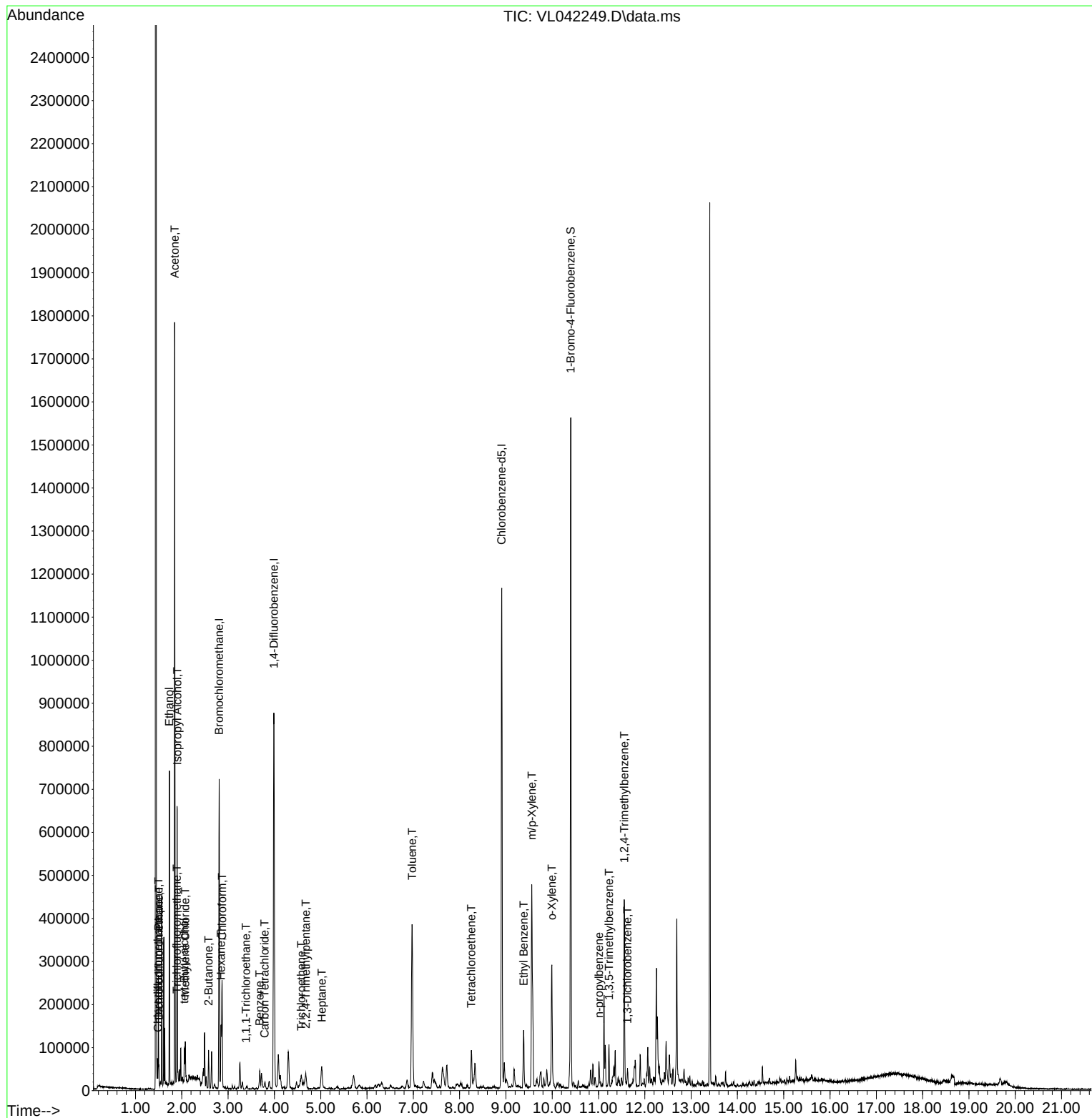
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042249.D
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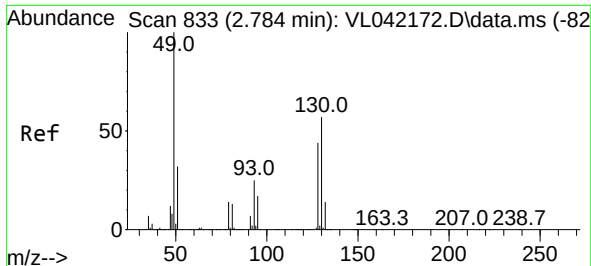
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

Quant Time: Apr 08 01:39:12 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

Manual Integrations
APPROVED

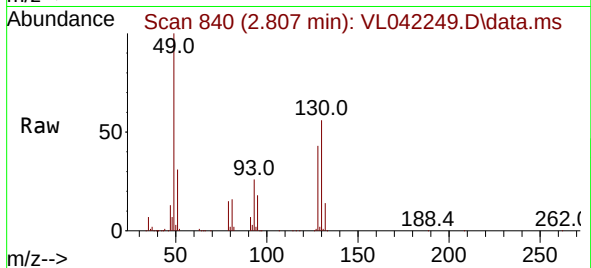
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.807 min Scan# 840
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

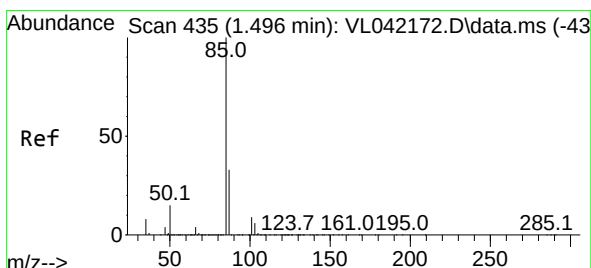
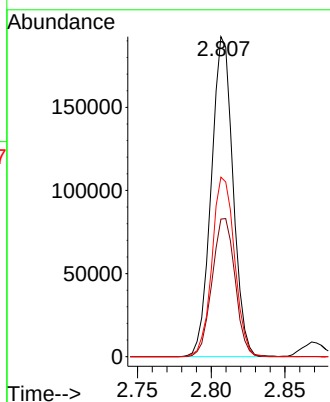
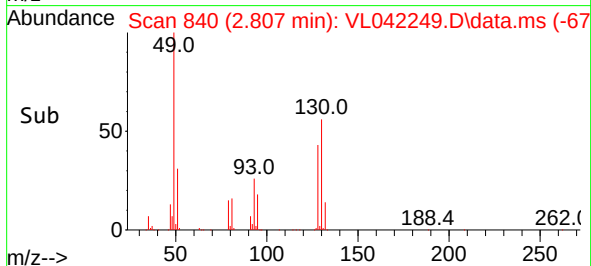
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



Tgt Ion: 49 Resp: 197758
Ion Ratio Lower Upper
49 100
128 45.4 22.9 68.5
130 58.1 28.8 86.4

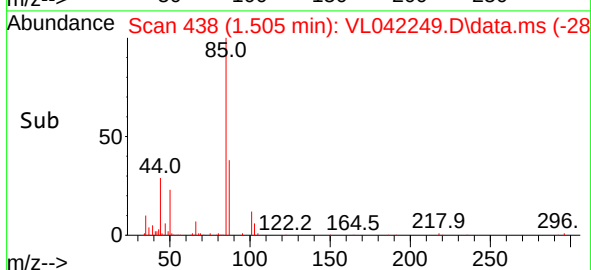
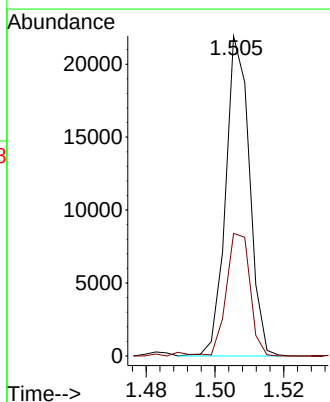
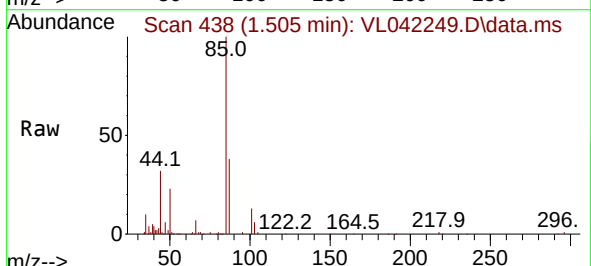
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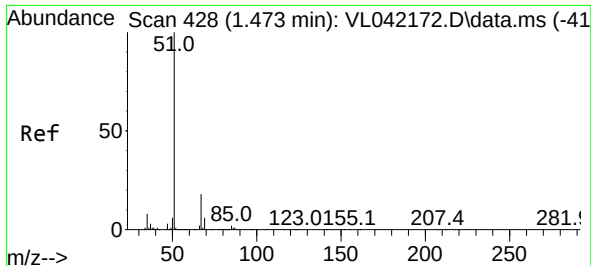
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.361 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

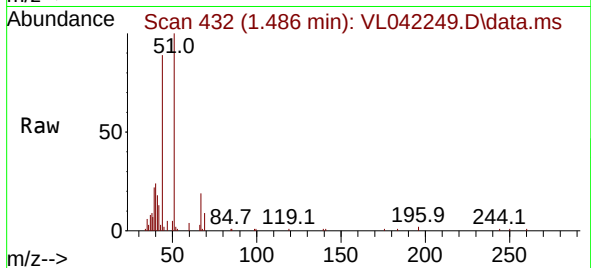
Tgt Ion: 85 Resp: 10548
Ion Ratio Lower Upper
85 100
87 38.3 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.130 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

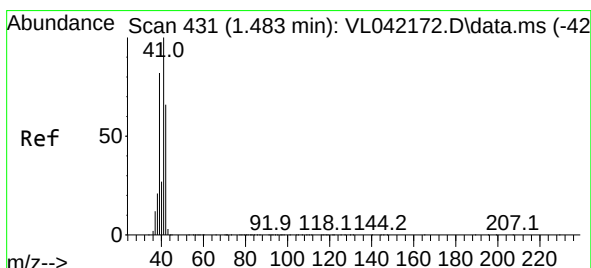
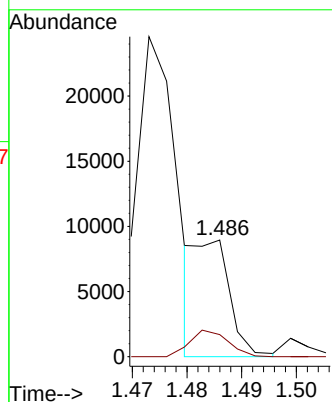
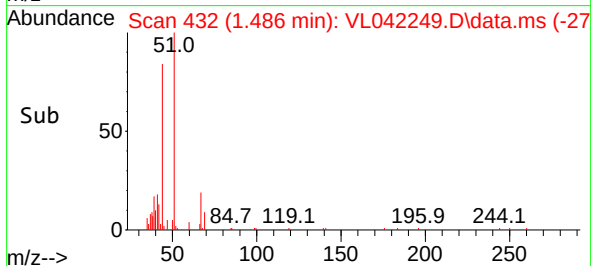
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Tgt Ion: 51 Resp: 386
Ion Ratio Lower Upper
51 100
67 25.8 15.0 22.6

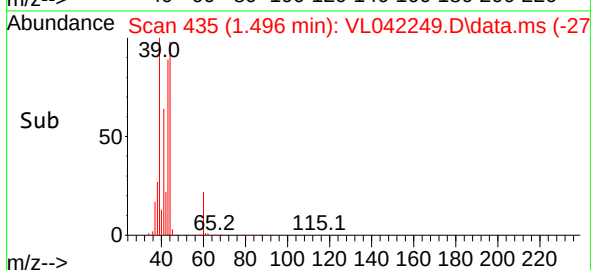
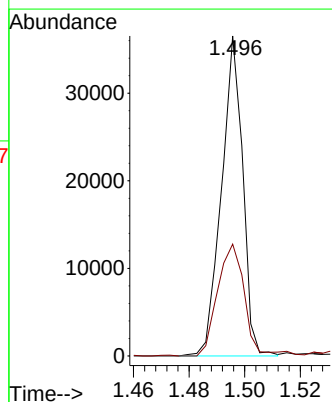
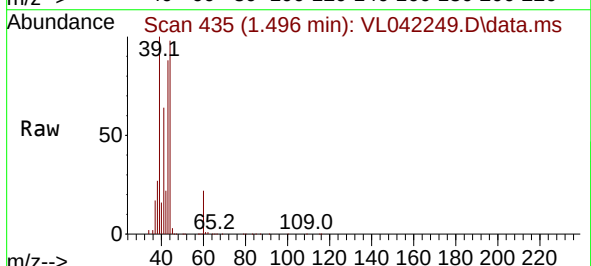
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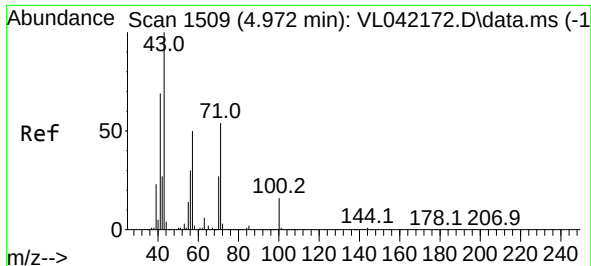
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#9
Propene
Concen: 1.415 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

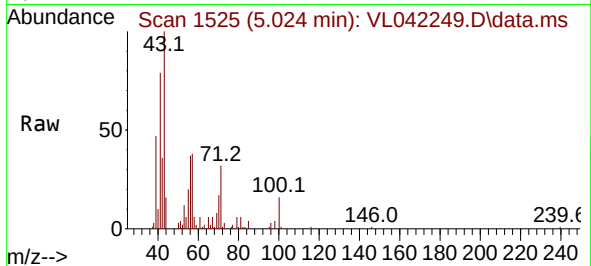
Tgt Ion: 41 Resp: 19346
Ion Ratio Lower Upper
41 100
42 42.2 55.4 83.2





#10
Heptane
Concen: 0.613 ppbv
RT: 5.024 min Scan# 11
Delta R.T. 0.052 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

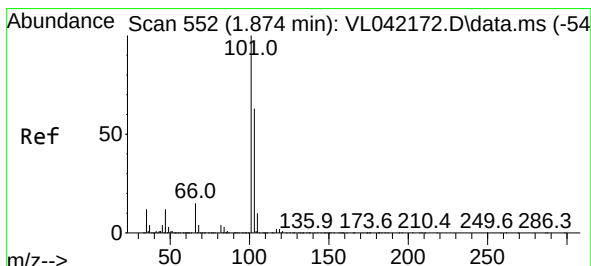
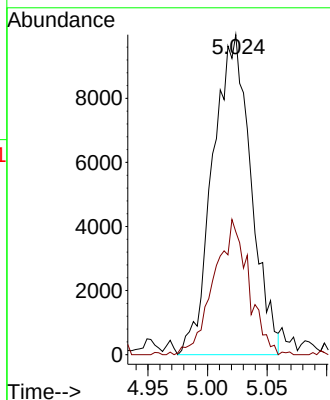
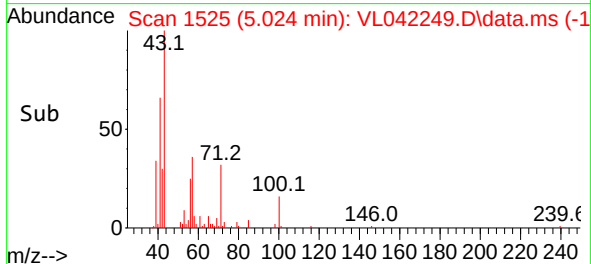
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



Tgt Ion: 43 Resp: 2230
Ion Ratio Lower Upper
43 100
57 38.5 39.4 59.2

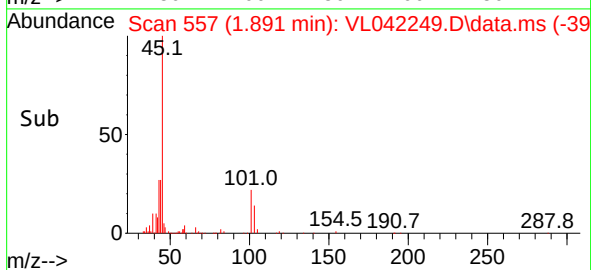
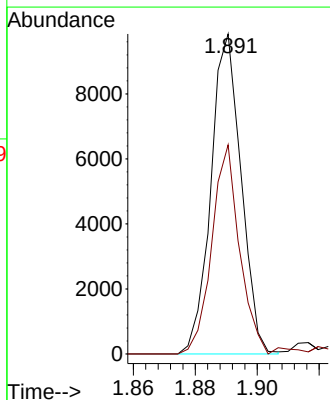
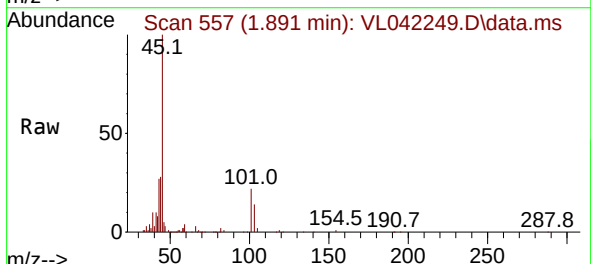
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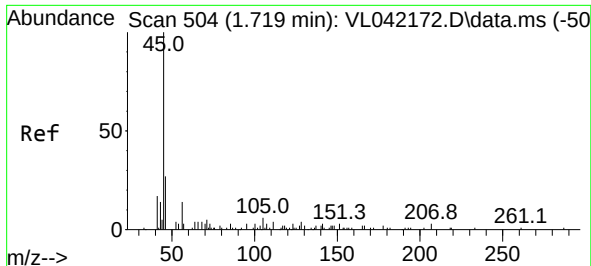
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion:101 Resp: 6666
Ion Ratio Lower Upper
101 100
103 65.3 50.2 75.2





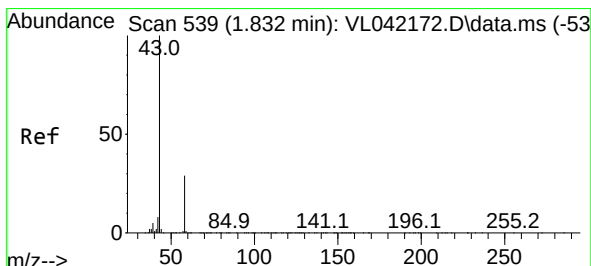
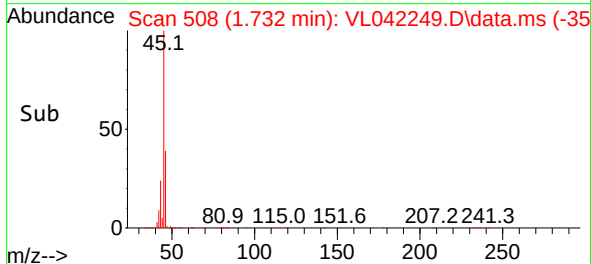
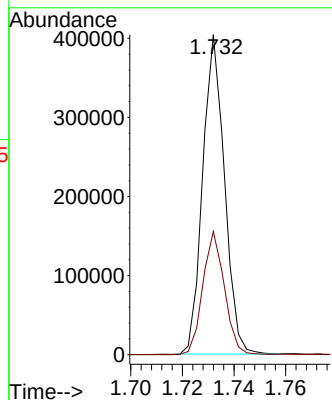
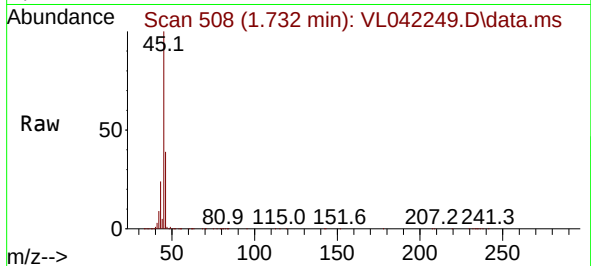
#13
Ethanol
Concen: 182.981 ppbv
RT: 1.732 min Scan# 504
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT

Tgt Ion: 45 Resp: 236490
Ion Ratio Lower Upper
45 100
46 38.7 20.2 80.8

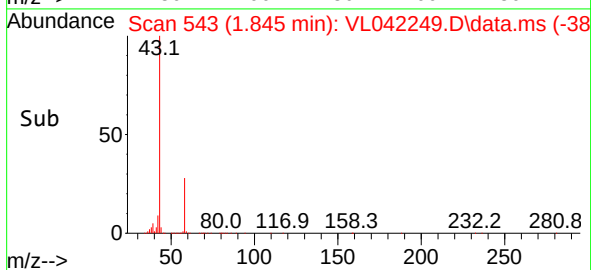
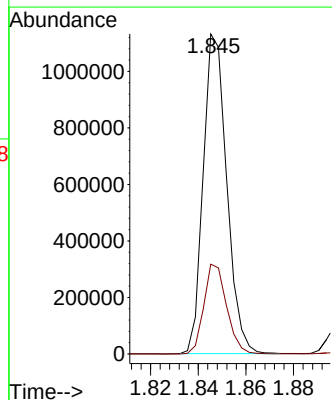
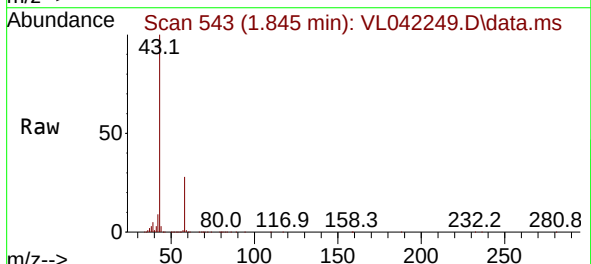
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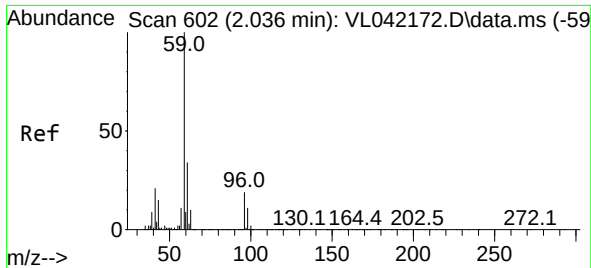
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#15
Acetone
Concen: 28.202 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

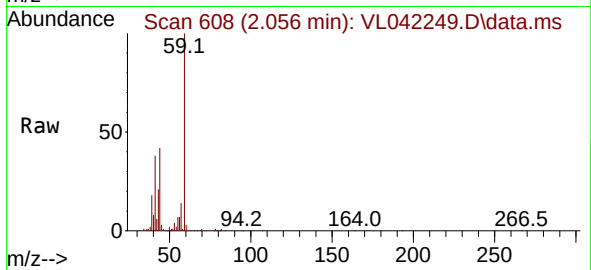
Tgt Ion: 43 Resp: 779996
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8





#17
tert-Butyl alcohol
Concen: 0.804 ppbv m
RT: 2.056 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

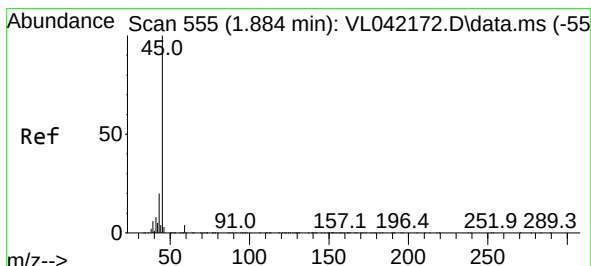
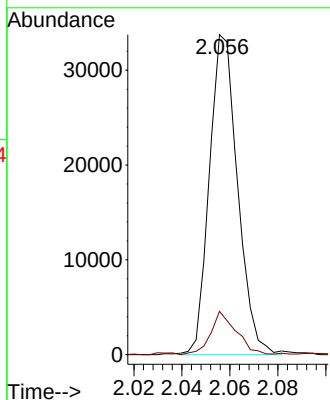
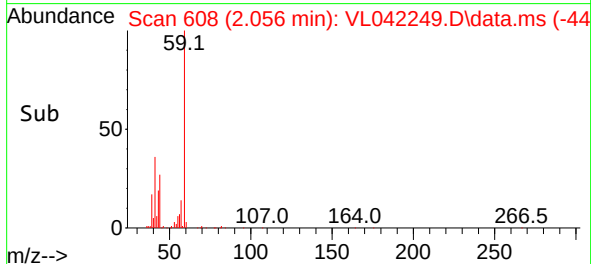
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



Tgt Ion: 59 Resp: 27690
Ion Ratio Lower Upper
59 100
57 3.9 8.9 13.3

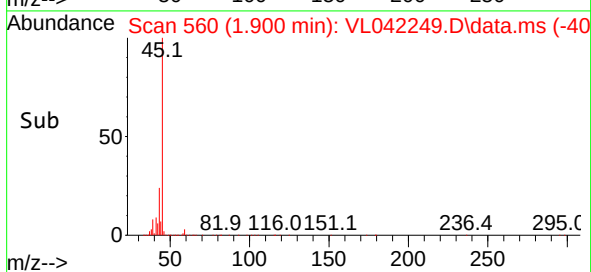
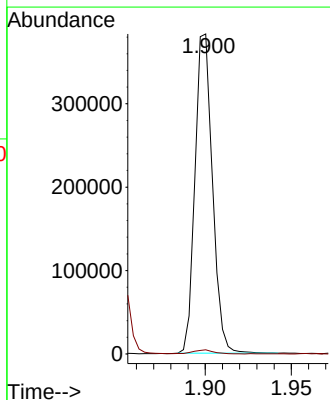
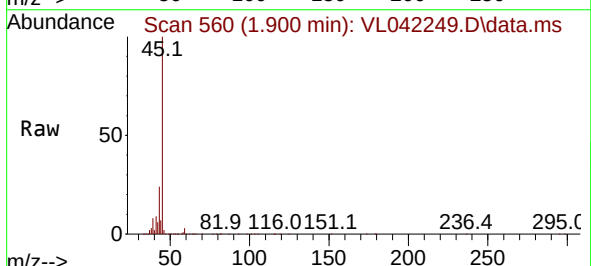
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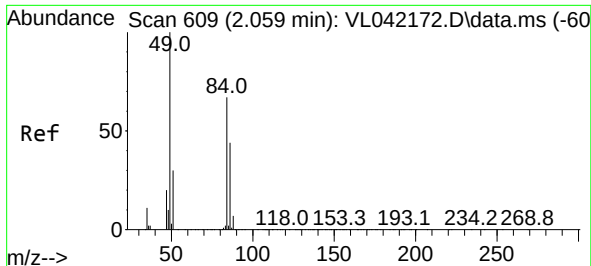
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#19
Isopropyl Alcohol
Concen: 17.376 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

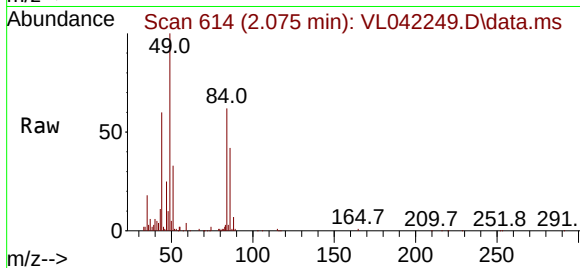
Tgt Ion: 45 Resp: 271152
Ion Ratio Lower Upper
45 100
58 78.1 36.9 55.3





#20
Methylene Chloride
Concen: 1.147 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

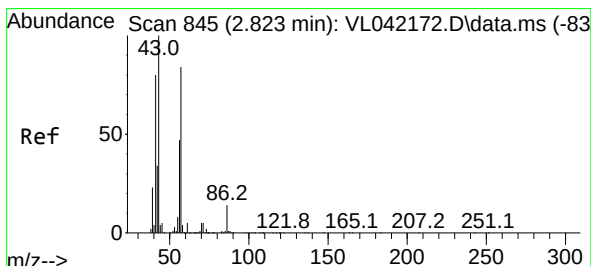
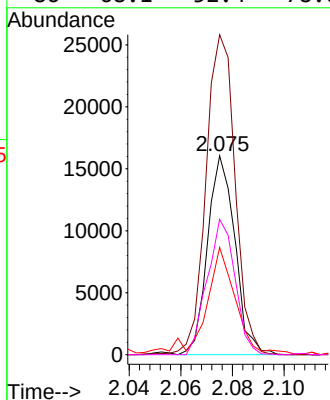
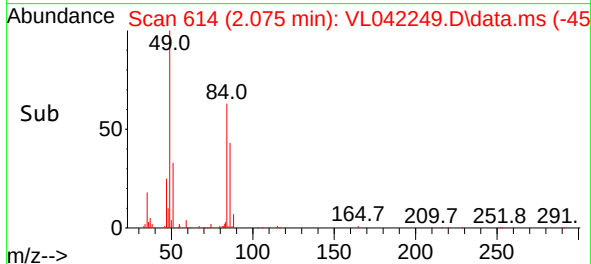
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



Tgt Ion: 84 Resp: 1181
Ion Ratio Lower Upper
84 100
49 160.5 120.2 180.4
51 52.1 37.4 56.0
86 68.1 52.4 78.6

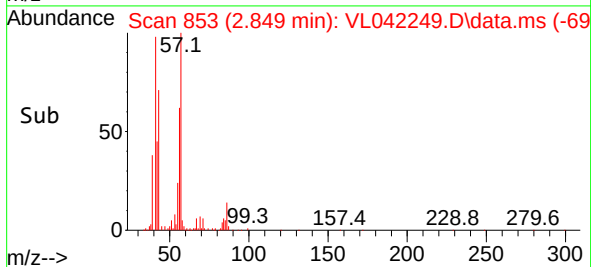
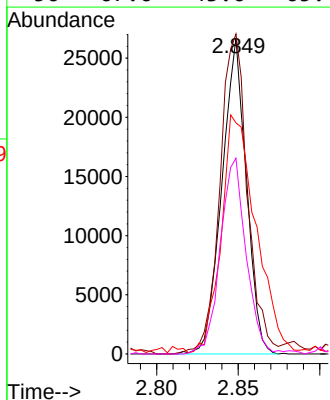
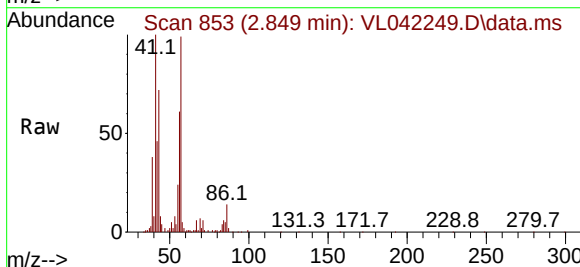
Manual Integrations
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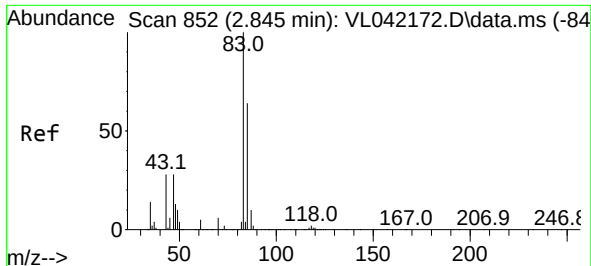
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 1.004 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 57 Resp: 27836
Ion Ratio Lower Upper
57 100
41 120.4 76.6 114.8#
43 110.3 207.8 311.8#
56 67.6 43.6 65.4#





#29

Chloroform

Concen: 2.356 ppbv

RT: 2.871 min Scan# 80

Delta R.T. 0.026 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLIT

Tgt Ion: 83 Resp: 9558

Ion Ratio Lower Upper

83 100

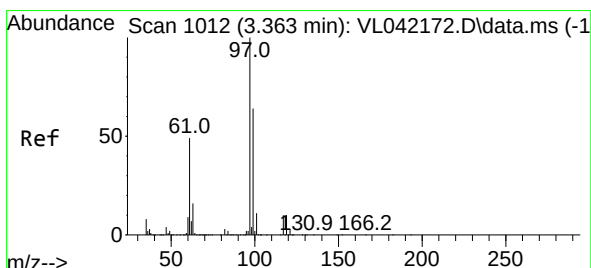
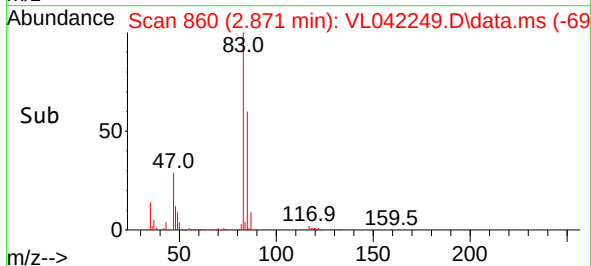
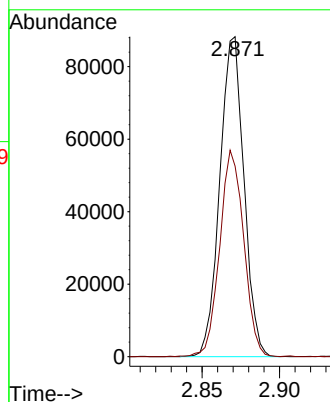
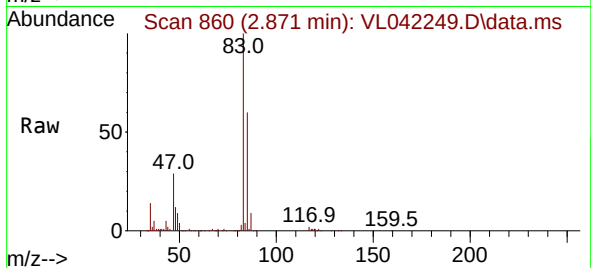
85 59.5 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#32

1,1,1-Trichloroethane

Concen: 0.033 ppbv m

RT: 3.386 min Scan# 1019

Delta R.T. 0.023 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

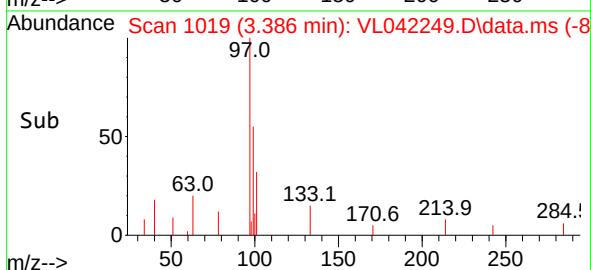
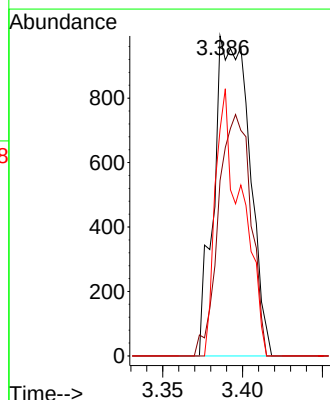
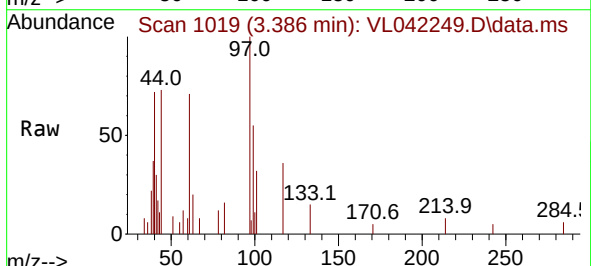
Tgt Ion: 97 Resp: 1528

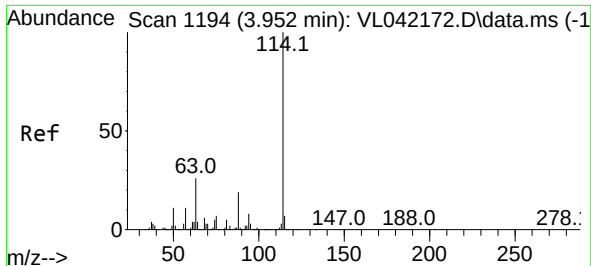
Ion Ratio Lower Upper

97 100

99 0.0 51.5 77.3#

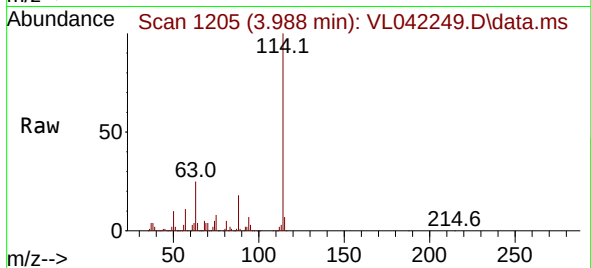
61 62.4 38.7 58.1#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1194
Delta R.T. 0.036 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

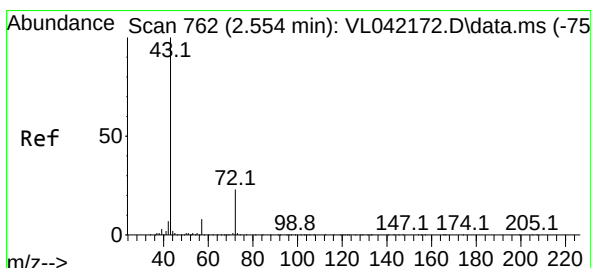
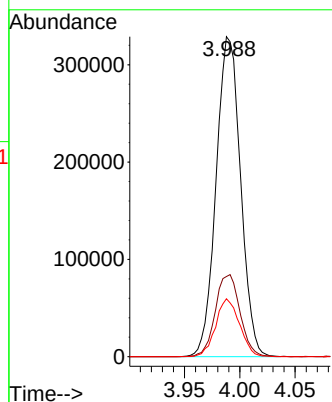
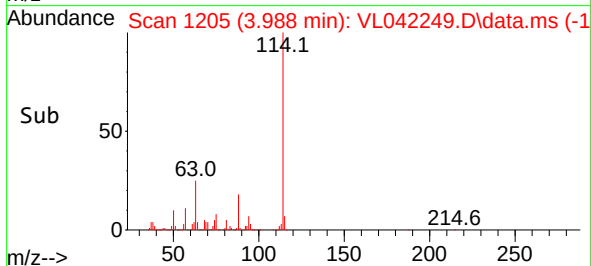
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



Tgt Ion:114 Resp: 506590
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 17.7 15.0 22.4

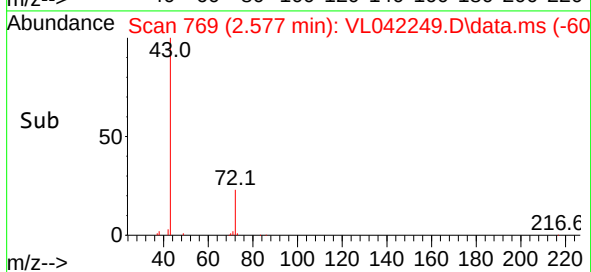
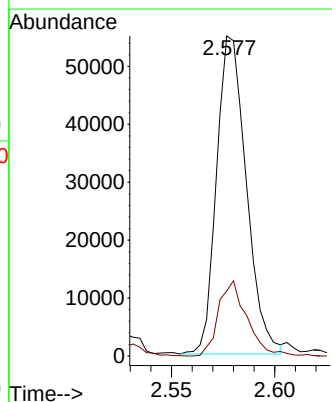
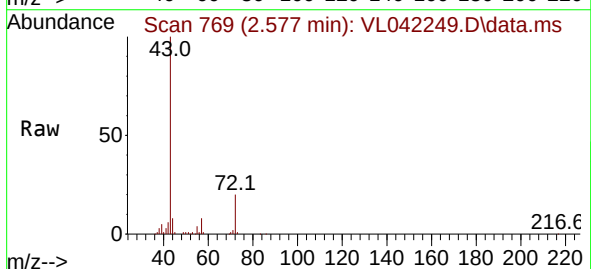
Manual Integrations
APPROVED

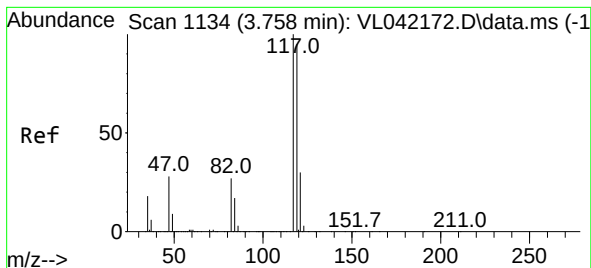
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34
2-Butanone
Concen: 1.500 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.023 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

Tgt Ion: 43 Resp: 55098
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.090 ppbv m

RT: 3.790 min Scan# 1110

Delta R.T. 0.032 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

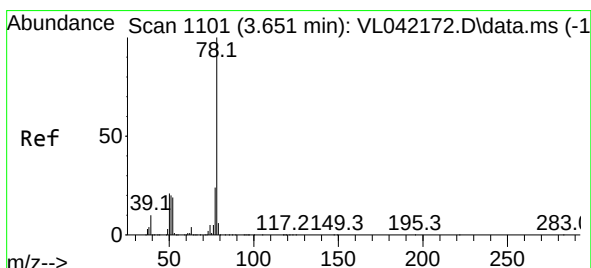
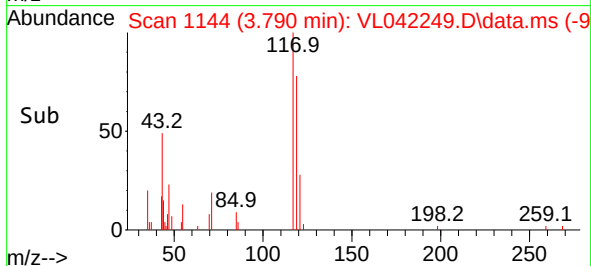
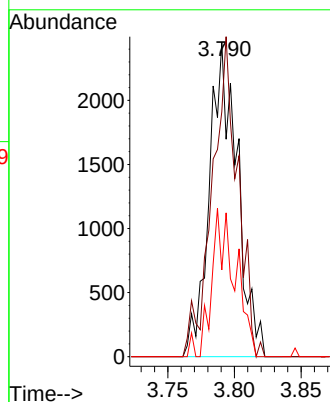
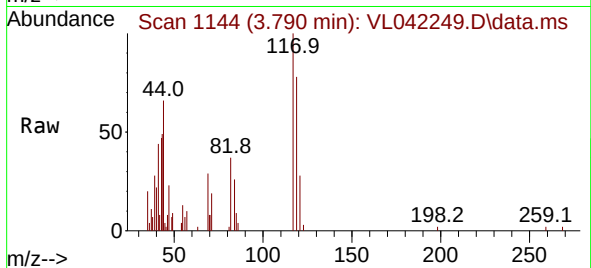
SSSG-B10-1-03312025-SPLIT

Tgt Ion: 117	Resp: 356
Ion Ratio	Lower Upper
117 100	
119 77.9	76.2 114.2
121 27.6	24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36

Benzene

Concen: 0.492 ppbv

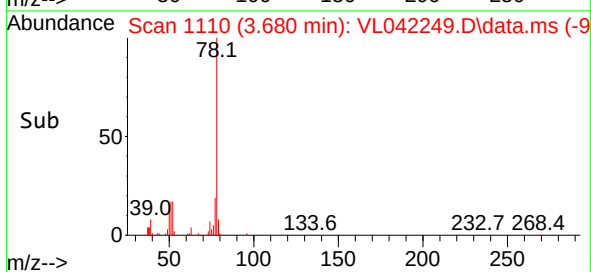
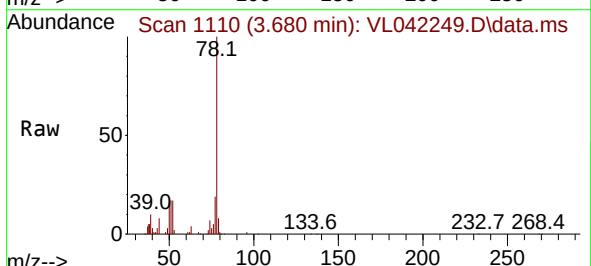
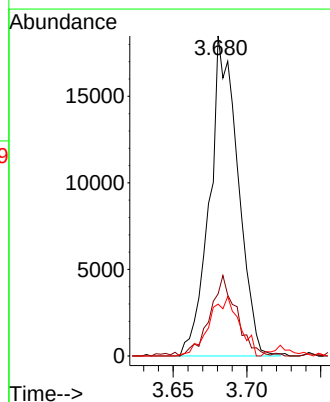
RT: 3.680 min Scan# 1110

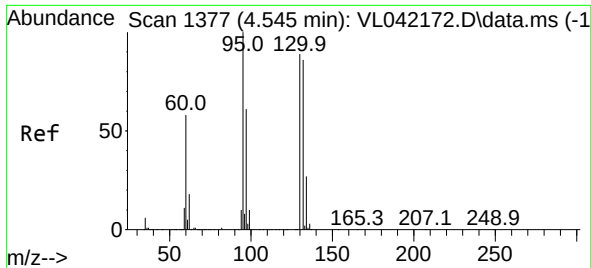
Delta R.T. 0.029 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Tgt Ion: 78	Resp: 24686
Ion Ratio	Lower Upper
78 100	
77 19.4	19.1 28.7
50 15.7	16.6 24.8





#38

Trichloroethene

Concen: 0.263 ppbv m

RT: 4.583 min Scan# 1418

Delta R.T. 0.039 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

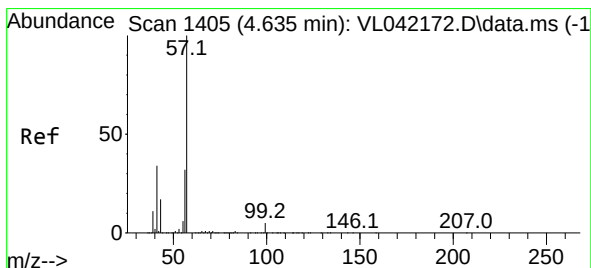
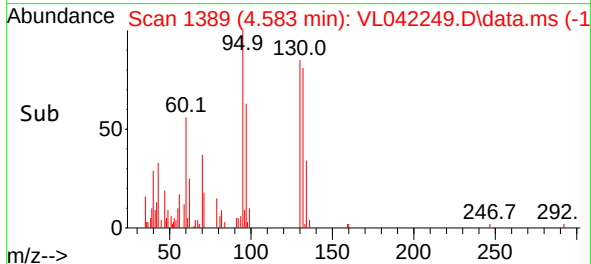
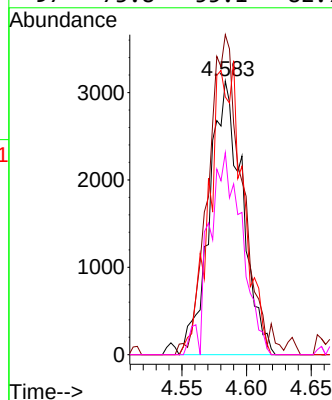
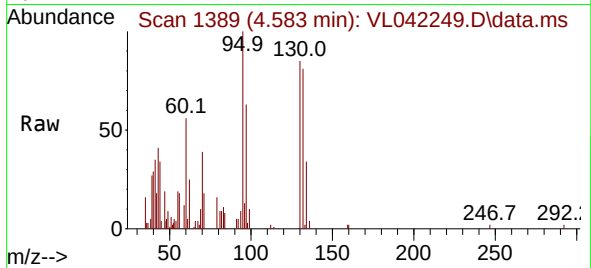
SSSG-B10-1-03312025-SPLIT

Tgt Ion:130	Resp:	5510
Ion Ratio	Lower	Upper
130	100	
95	117.0	89.8 134.8
132	94.2	77.4 116.2
97	73.8	55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#44

2,2,4-Trimethylpentane

Concen: 0.290 ppbv m

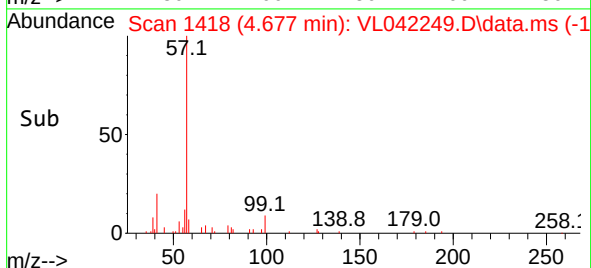
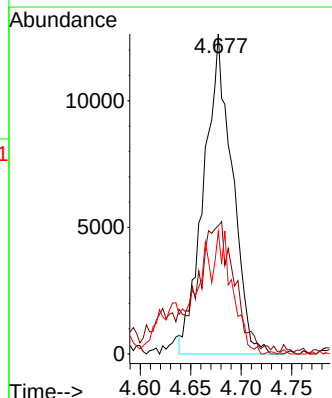
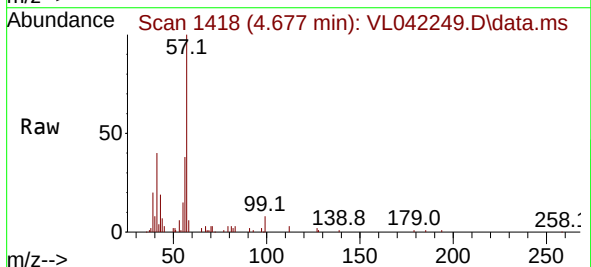
RT: 4.677 min Scan# 1418

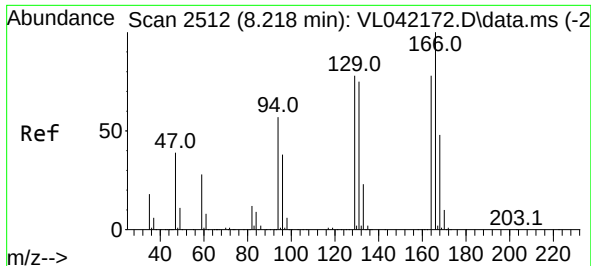
Delta R.T. 0.042 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

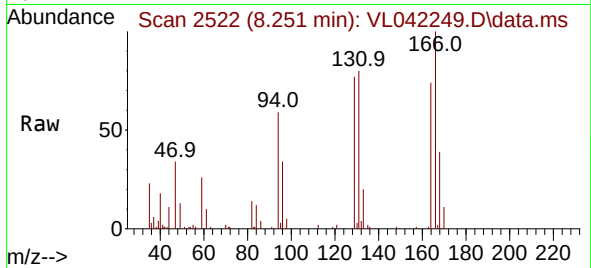
Tgt Ion: 57	Resp:	24653
Ion Ratio	Lower	Upper
57	100	
41	63.7	26.8 40.2#
56	57.4	25.6 38.4#





#52
Tetrachloroethene
Concen: 0.747 ppbv m
RT: 8.251 min Scan# 2127
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

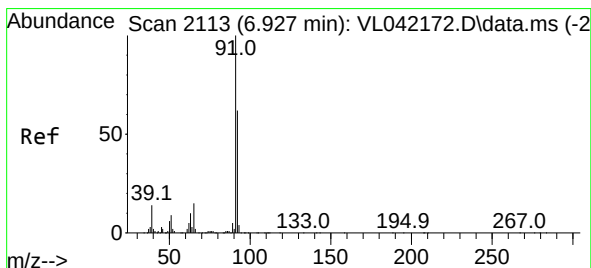
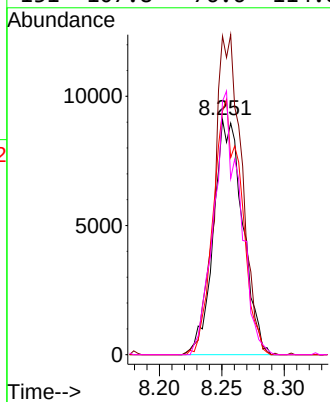
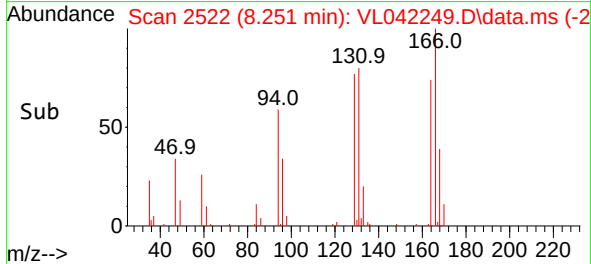
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



Tgt Ion:164 Resp: 14870
Ion Ratio Lower Upper
164 100
166 135.5 102.5 153.7
129 103.7 79.8 119.8
131 107.8 76.6 114.8

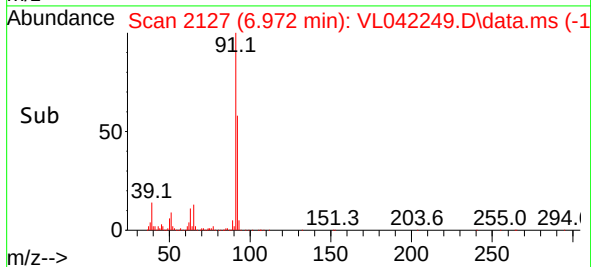
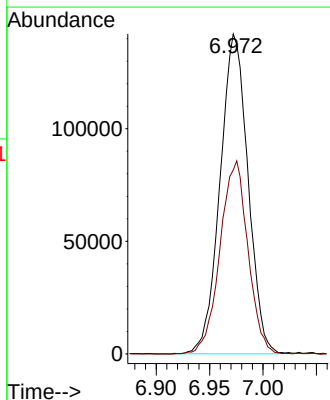
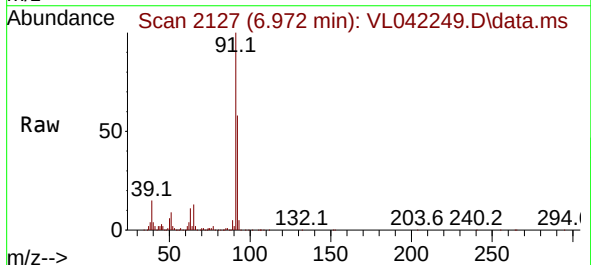
Manual Integrations
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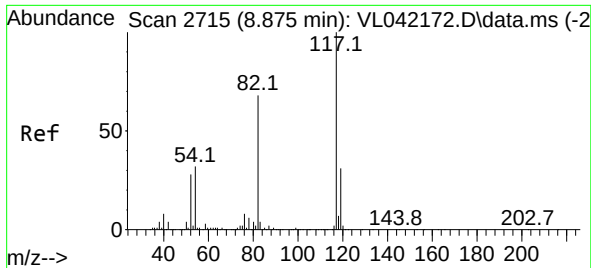
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 4.334 ppbv
RT: 6.972 min Scan# 2127
Delta R.T. 0.045 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

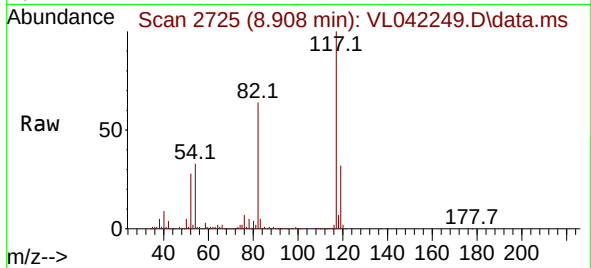
Tgt Ion: 91 Resp: 258006
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

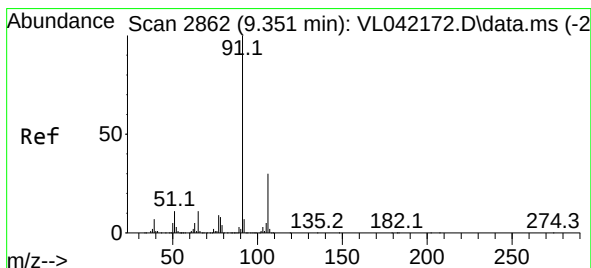
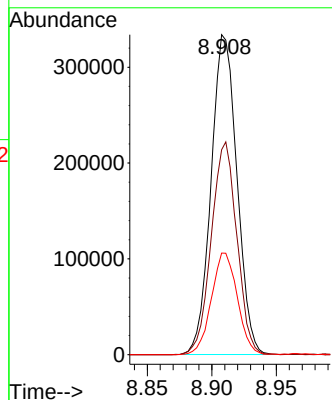
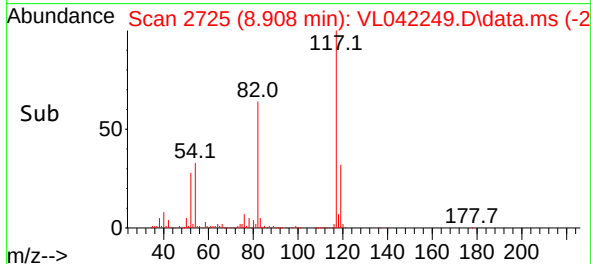
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



Tgt Ion: 117 Resp: 465539
Ion Ratio Lower Upper
117 100
82 65.7 55.8 83.6
119 32.0 25.5 38.3

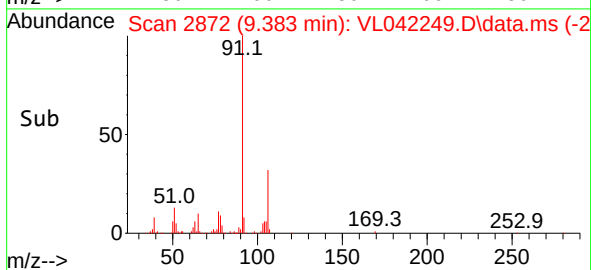
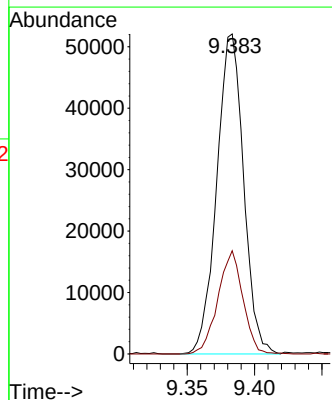
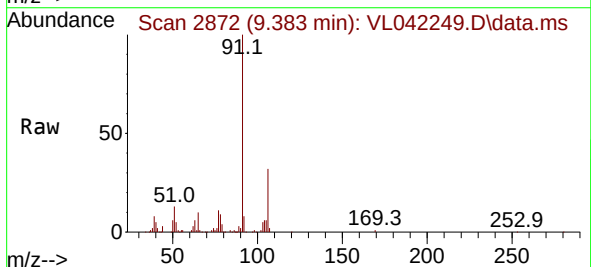
Manual Integrations
APPROVED

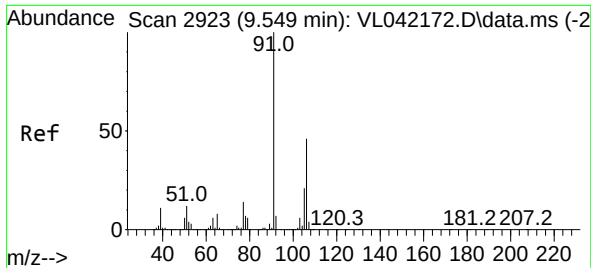
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 0.872 ppbv
RT: 9.383 min Scan# 2872
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

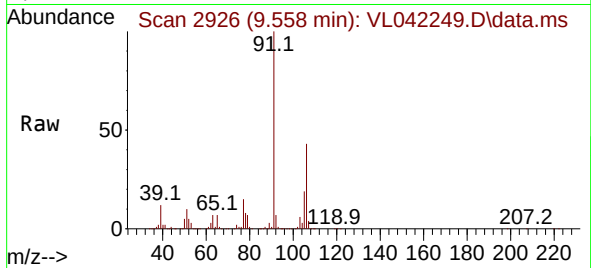
Tgt Ion: 91 Resp: 72131
Ion Ratio Lower Upper
91 100
106 32.2 24.2 36.2





#59
m/p-Xylene
Concen: 4.307 ppbv
RT: 9.558 min Scan# 2923
Delta R.T. 0.010 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

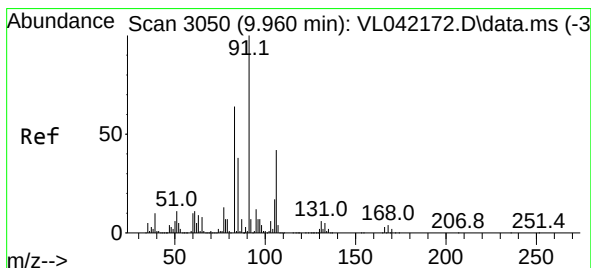
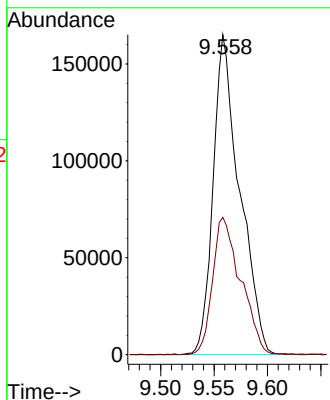
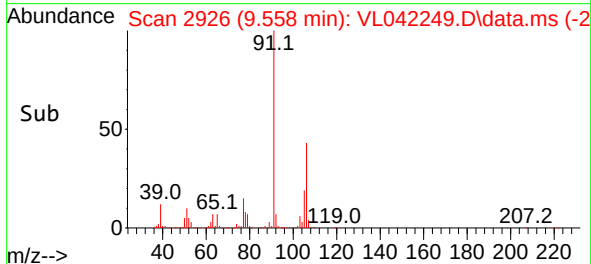
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-1-03312025-SPLIT



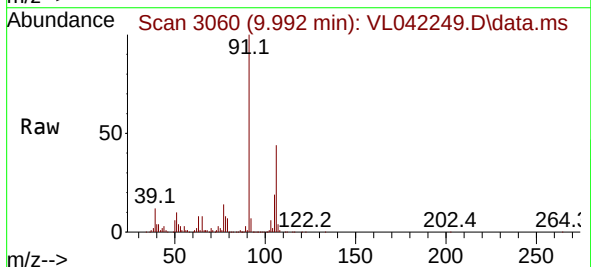
Tgt Ion: 91 Resp: 284370
Ion Ratio Lower Upper
91 100
106 45.7 36.4 54.6

Manual Integrations
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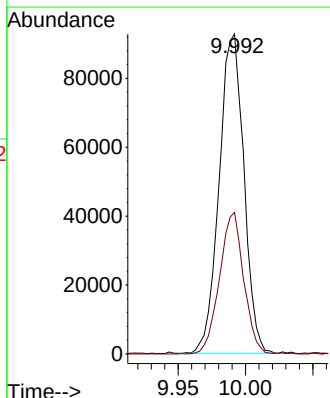
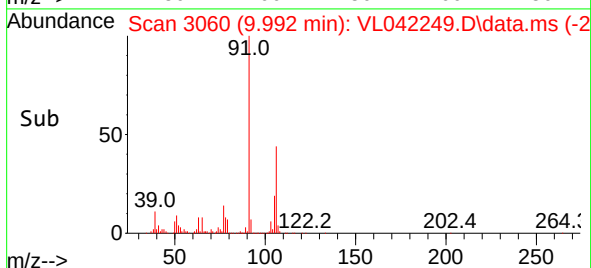
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

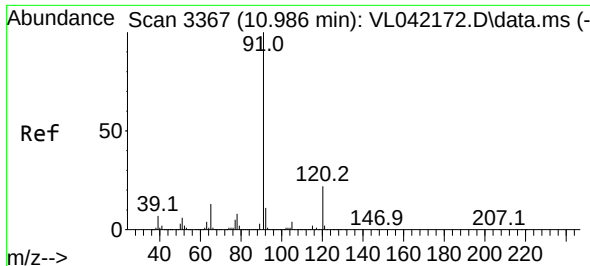


#60
o-Xylene
Concen: 1.790 ppbv
RT: 9.992 min Scan# 3060
Delta R.T. 0.032 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46



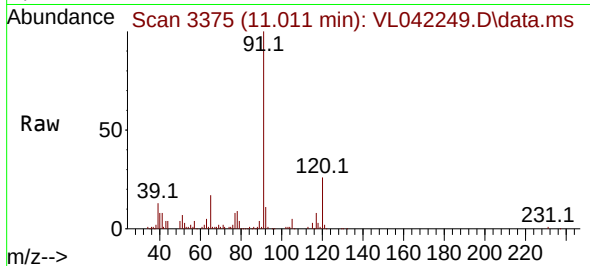
Tgt Ion: 91 Resp: 118466
Ion Ratio Lower Upper
91 100
106 43.5 20.8 62.5





#64
n-propylbenzene
Concen: 0.233 ppbv
RT: 11.011 min Scan# 3186
Delta R.T. 0.026 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46

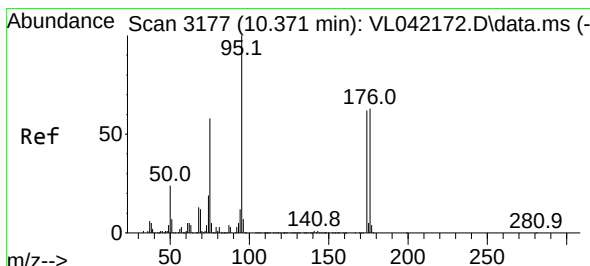
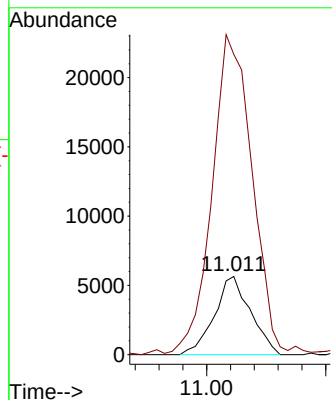
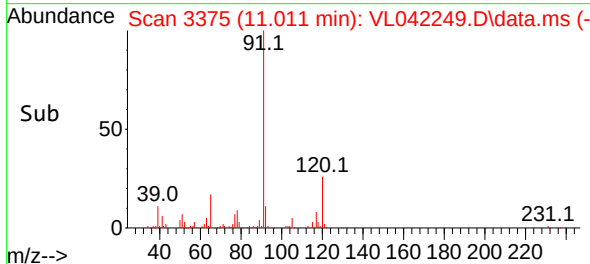
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLIT



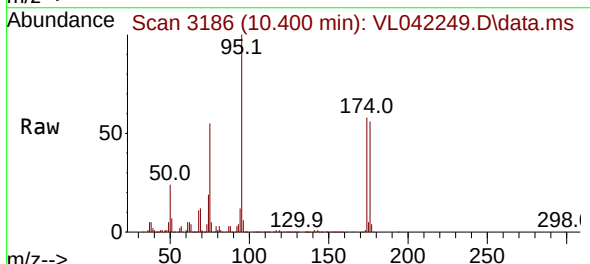
Tgt Ion: 120 Resp: 5944
Ion Ratio Lower Upper
120 100
91 461.4 376.9 565.3

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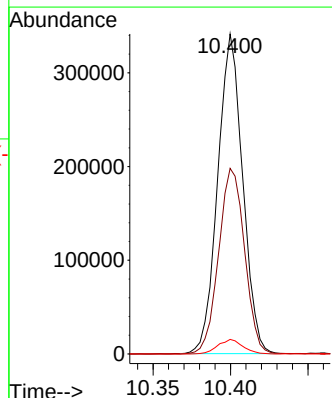
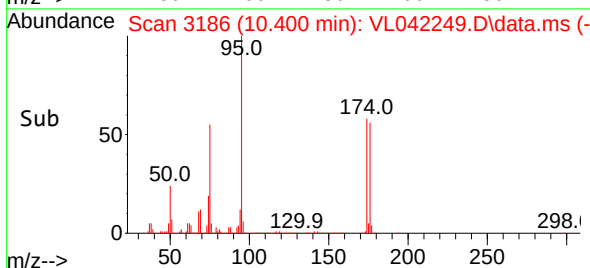
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025

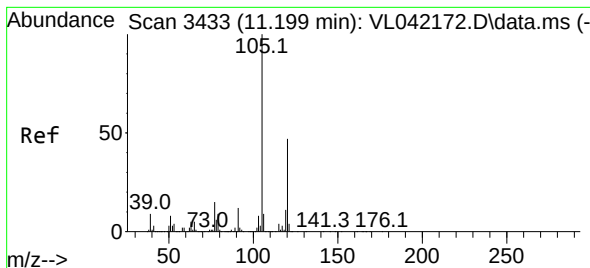


#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.400 min Scan# 3186
Delta R.T. 0.029 min
Lab File: VL042249.D
Acq: 08 Apr 2025 00:46



Tgt Ion: 95 Resp: 381596
Ion Ratio Lower Upper
95 100
174 60.6 50.6 76.0
175 4.6 3.8 5.6





#73

1,3,5-Trimethylbenzene

Concen: 0.435 ppbv

RT: 11.225 min Scan# 3441

Delta R.T. 0.026 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

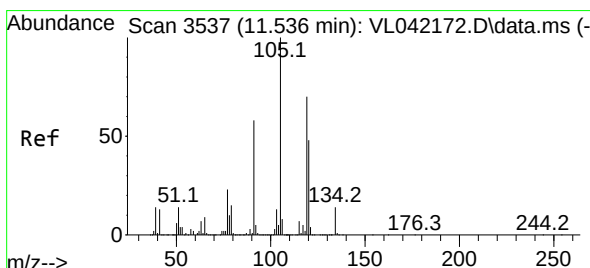
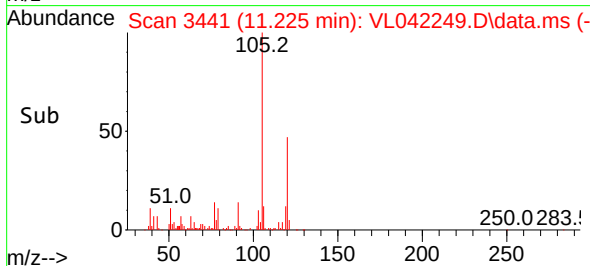
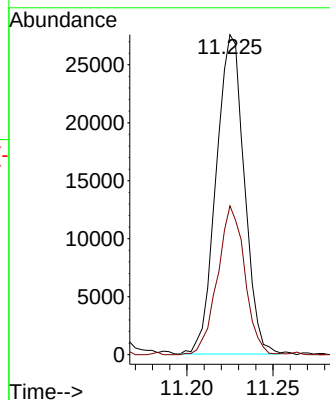
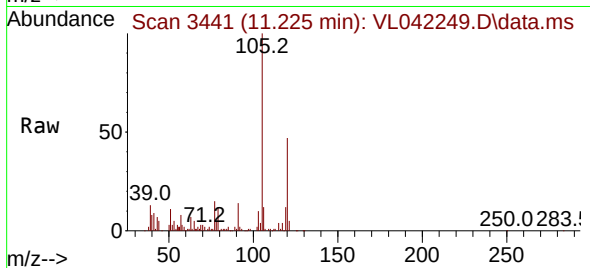
SSSG-B10-1-03312025-SPLIT

Tgt Ion:105 Resp: 31320
 Ion Ratio Lower Upper
 105 100
 120 46.6 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.746 ppbv

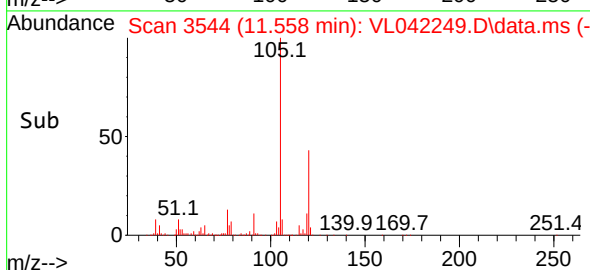
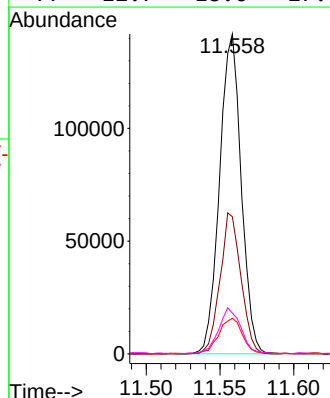
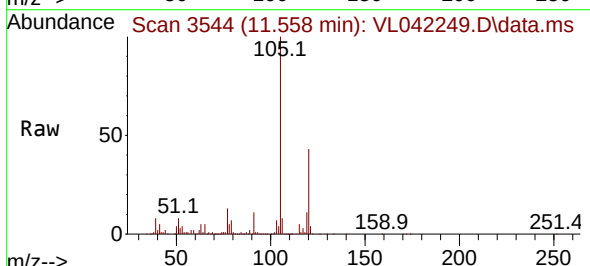
RT: 11.558 min Scan# 3544

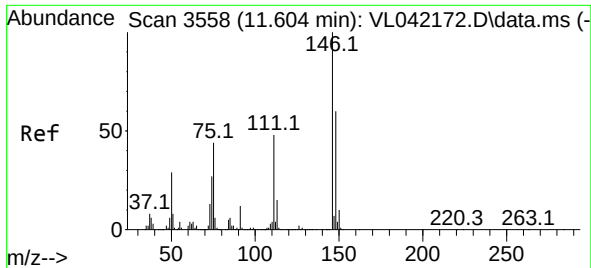
Delta R.T. 0.023 min

Lab File: VL042249.D

Acq: 08 Apr 2025 00:46

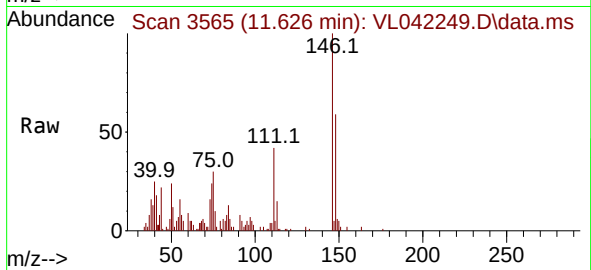
Tgt Ion:105 Resp: 144819
 Ion Ratio Lower Upper
 105 100
 120 42.9 38.6 58.0
 91 11.0 46.2 69.2#
 77 12.7 18.6 27.8#





#75
 1,3-Dichlorobenzene
 Concen: 0.161 ppbv
 RT: 11.626 min Scan# 31
 Delta R.T. 0.023 min
 Lab File: VL042249.D
 Acq: 08 Apr 2025 00:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLIT



Tgt Ion:	146	Resp:	730
Ion Ratio	Lower	Upper	
146	100		
111	56.0	23.8	71.2
148	65.5	31.9	95.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

