

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042333.D
 Acq On : 15 Apr 2025 15:35
 Operator : SY/MD
 Sample : Q1802-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:32:53 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	2.810	49	165032	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	401986	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.914	117	365464	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	293899	9.793	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.508	85	9916	0.407	ppbv	90
3) Chlorodifluoromethane	1.486	51	6114m	0.246	ppbv	
4) Chloromethane	1.541	50	6928	0.696	ppbv	99
9) Propene	1.495	41	39986m	3.505	ppbv	
10) Heptane	5.033	43	10685m	0.352	ppbv	
11) Trichlorofluoromethane	1.890	101	4453	0.188	ppbv	90
13) Ethanol	1.732	45	169320	156.984	ppbv	83
15) Acetone	1.848	43	411650	17.835	ppbv #	79
19) Isopropyl Alcohol	1.900	45	38693	2.971	ppbv #	1
20) Methylene Chloride	2.075	84	2851	0.332	ppbv	95
26) Hexane	2.852	57	29064	1.256	ppbv #	60
30) Cyclohexane	3.891	84	4966m	0.247	ppbv	
34) 2-Butanone	2.580	43	53746	1.844	ppbv	97
35) Carbon Tetrachloride	3.803	117	2087m	0.066	ppbv	
36) Benzene	3.687	78	26856	0.674	ppbv #	91
41) Tetrahydrofuran	3.085	42	53848	3.208	ppbv	91
44) 2,2,4-Trimethylpentane	4.687	57	28932m	0.430	ppbv	
52) Tetrachloroethene	8.260	164	3994m	0.253	ppbv	
53) Toluene	6.978	91	97628	2.067	ppbv	97
58) Ethyl Benzene	9.390	91	13061	0.201	ppbv #	89
59) m/p-Xylene	9.561	91	42208	0.814	ppbv	99
60) o-Xylene	9.995	91	13960	0.269	ppbv	87
74) 1,2,4-Trimethylbenzene	11.561	105	17878	0.275	ppbv #	69

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

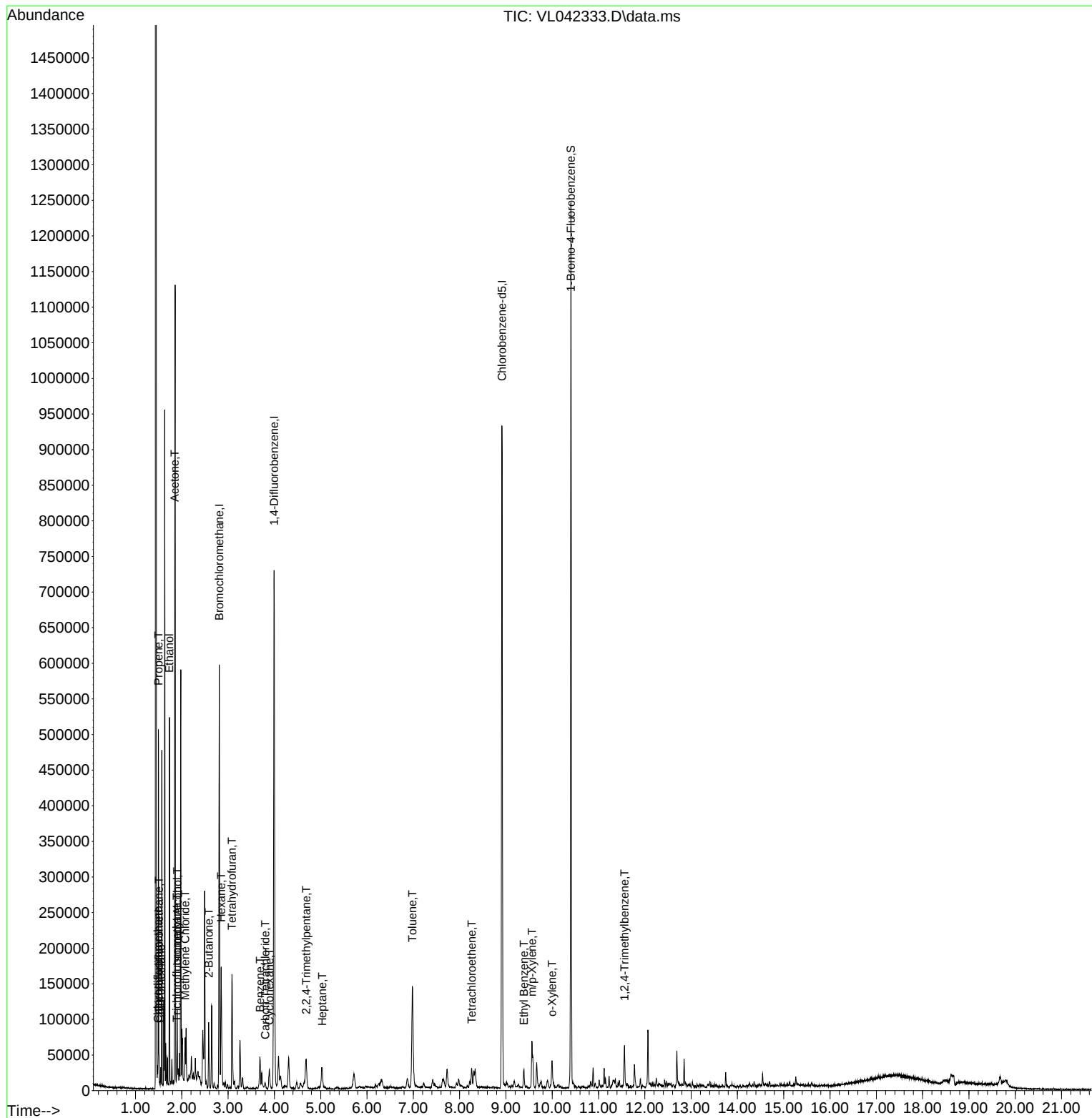
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042333.D
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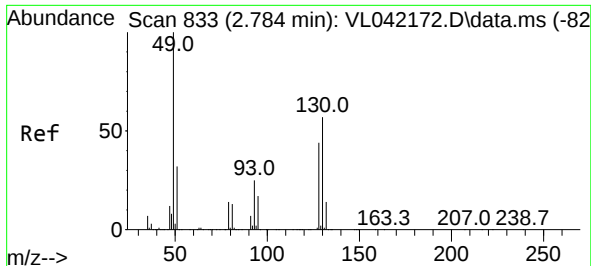
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Apr 16 01:32:53 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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APPROVED

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Supervised By : Mahesh Dadoda 04/16/2025





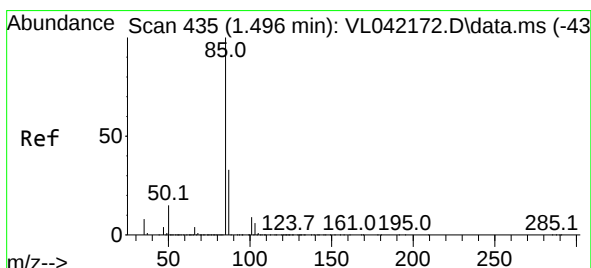
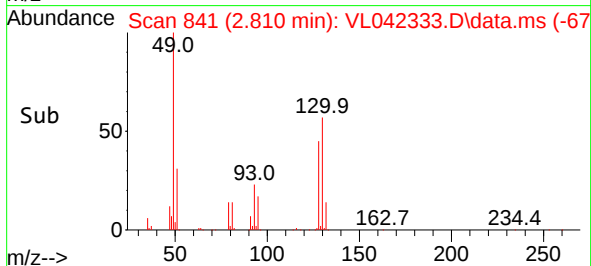
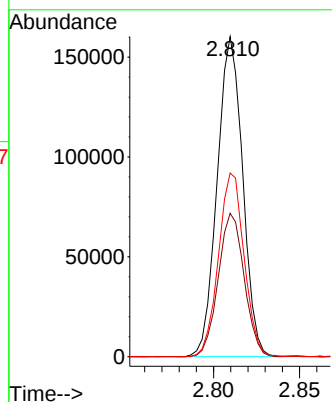
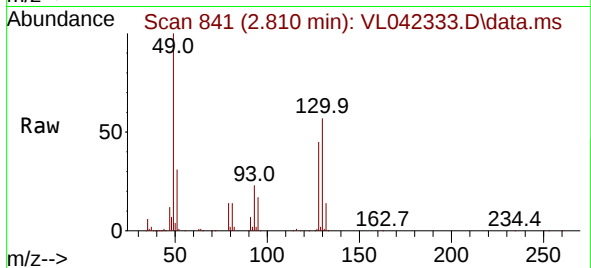
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 16503
Ion Ratio Lower Upper
49 100
128 45.5 22.9 68.5
130 57.8 28.8 86.4

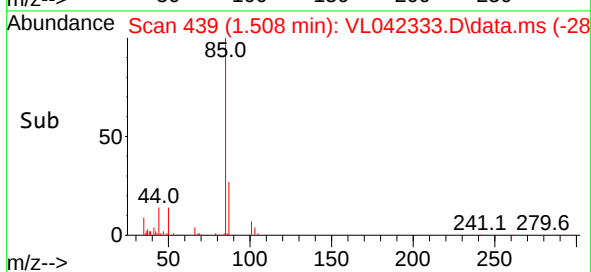
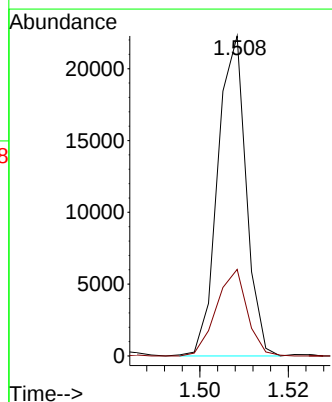
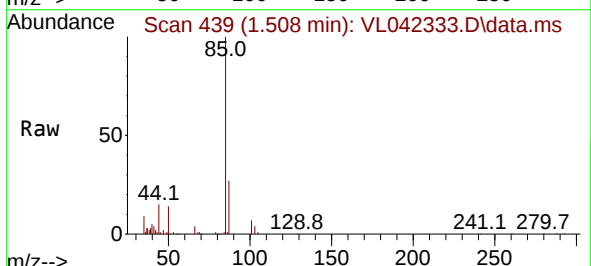
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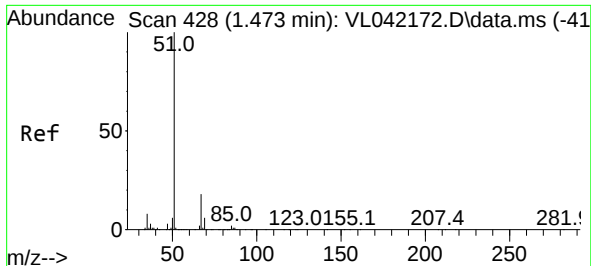
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#2
Dichlorodifluoromethane
Concen: 0.407 ppbv
RT: 1.508 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Tgt Ion: 85 Resp: 9916
Ion Ratio Lower Upper
85 100
87 27.0 26.1 39.1





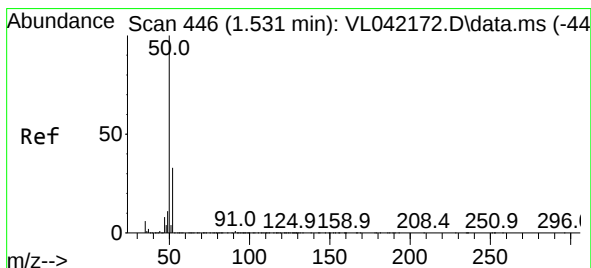
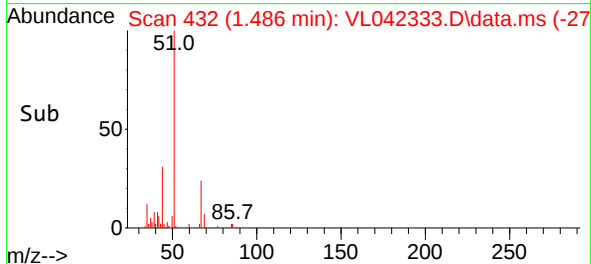
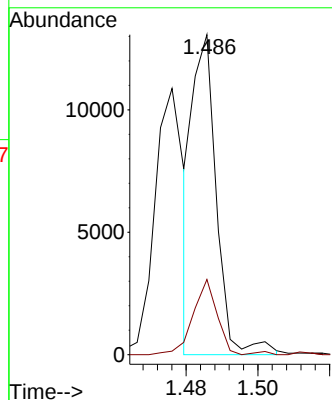
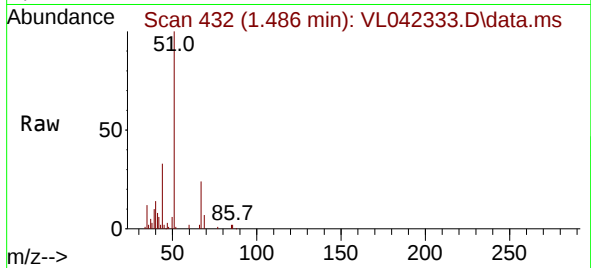
#3
Chlorodifluoromethane
Concen: 0.246 ppbv m
RT: 1.486 min Scan# 411
Delta R.T. 0.013 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 6114
Ion Ratio Lower Upper
51 100
67 2.3 15.0 22.6

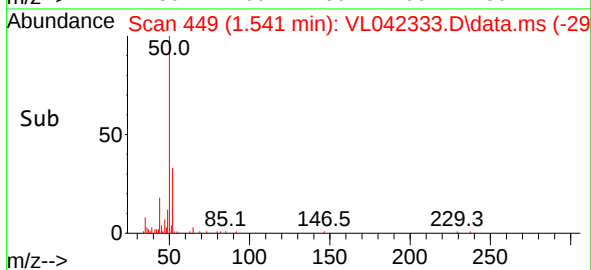
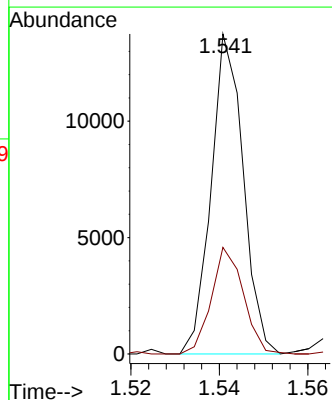
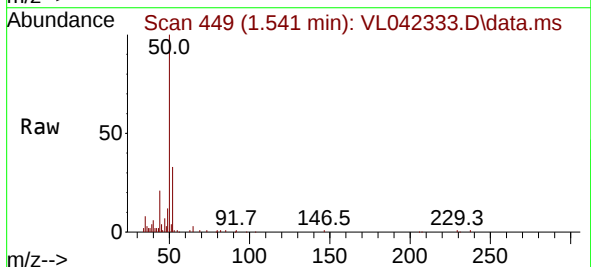
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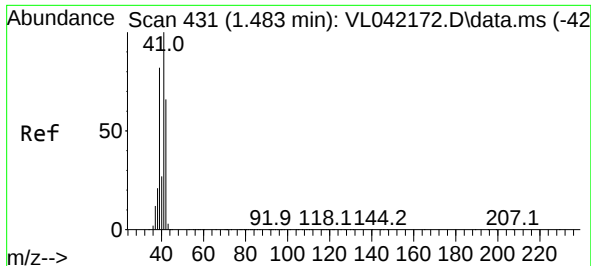
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#4
Chloromethane
Concen: 0.696 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.009 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Tgt Ion: 50 Resp: 6928
Ion Ratio Lower Upper
50 100
52 33.3 26.1 39.1





#9

Propene

Concen: 3.505 ppbv m

RT: 1.495 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042333.D

Acq: 15 Apr 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 39980

Ion Ratio Lower Upper

41 100

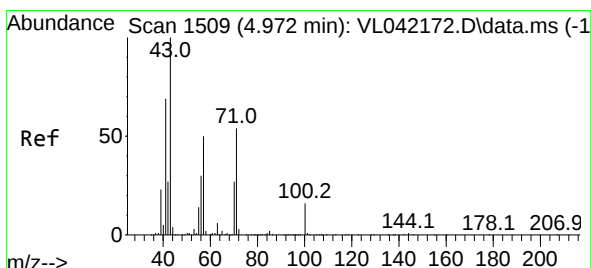
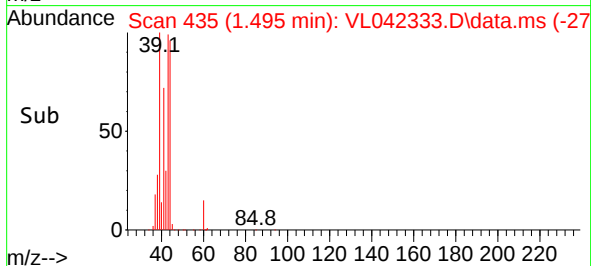
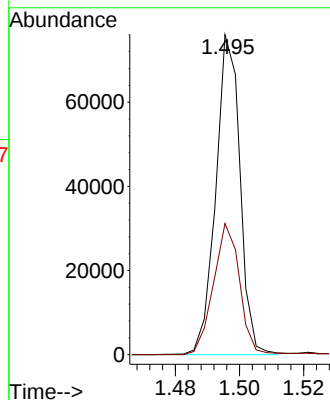
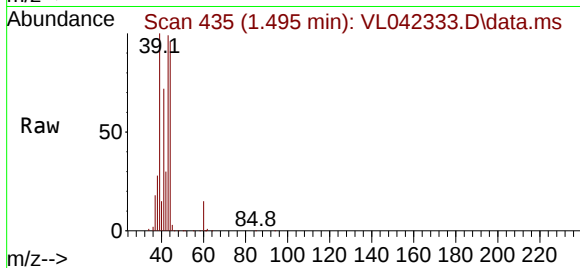
42 85.9 55.4 83.2

Manual Integrations

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#10

Heptane

Concen: 0.352 ppbv m

RT: 5.033 min Scan# 1528

Delta R.T. 0.061 min

Lab File: VL042333.D

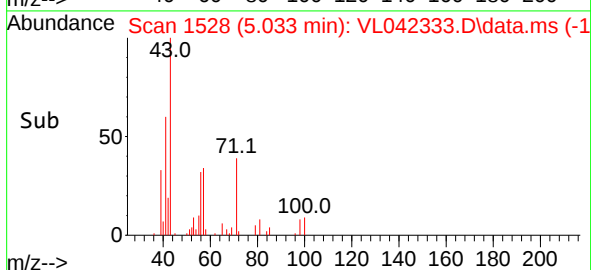
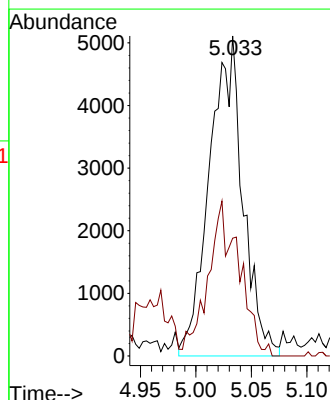
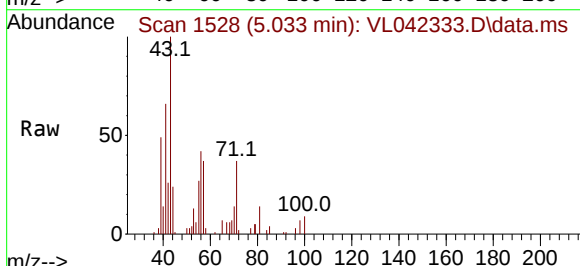
Acq: 15 Apr 2025 15:35

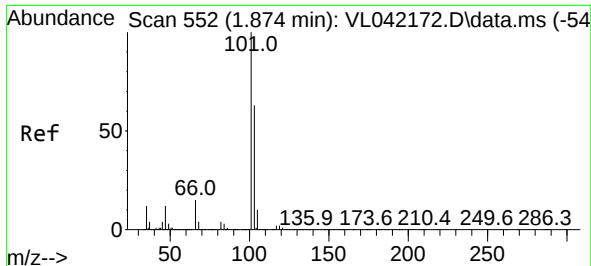
Tgt Ion: 43 Resp: 10685

Ion Ratio Lower Upper

43 100

57 45.2 39.4 59.2





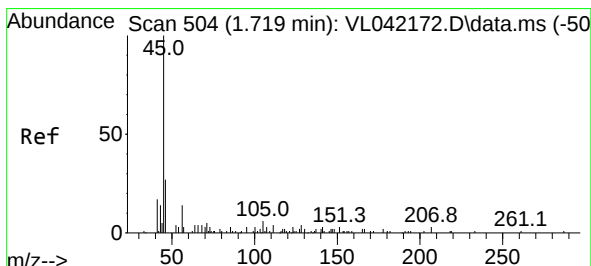
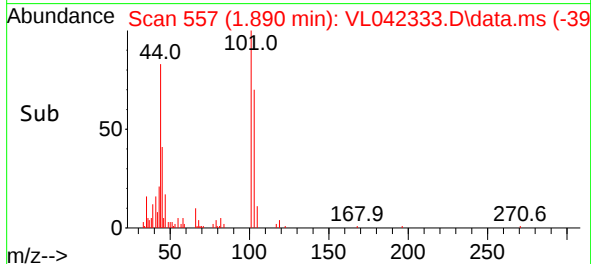
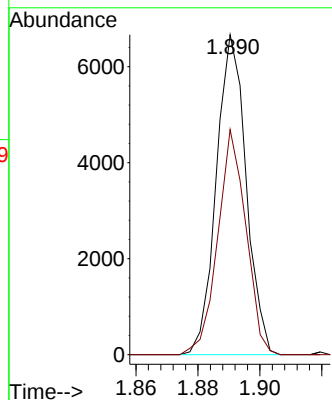
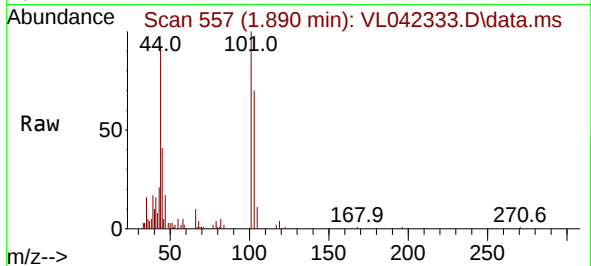
#11
Trichlorofluoromethane
Concen: 0.188 ppbv
RT: 1.890 min Scan# 508
Delta R.T. 0.016 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 445
Ion Ratio Lower Upper
101 100
103 70.4 50.2 75.2

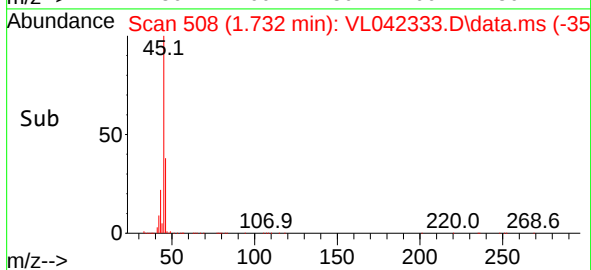
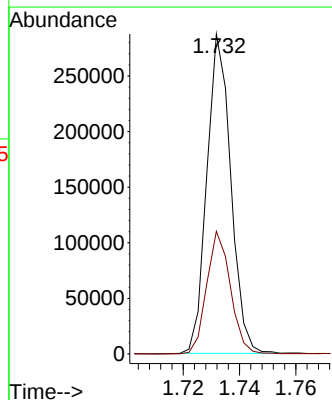
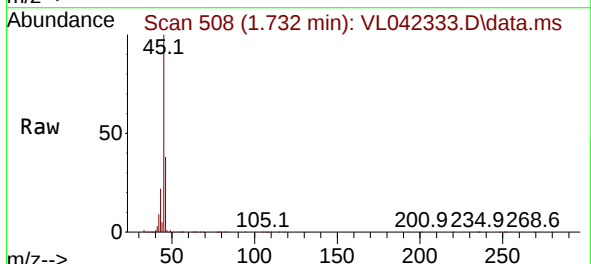
Manual Integrations
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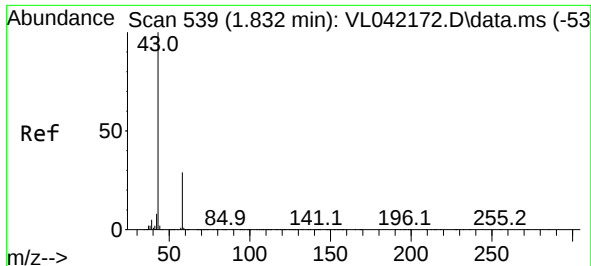
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#13
Ethanol
Concen: 156.984 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

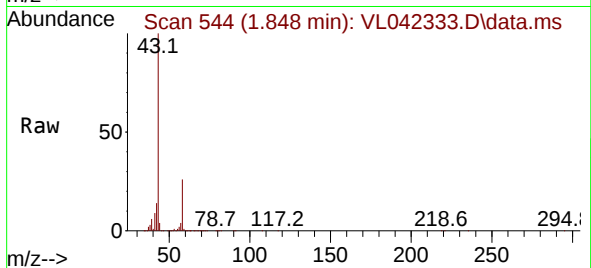
Tgt Ion: 45 Resp: 169320
Ion Ratio Lower Upper
45 100
46 38.5 20.2 80.8





#15
Acetone
Concen: 17.835 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

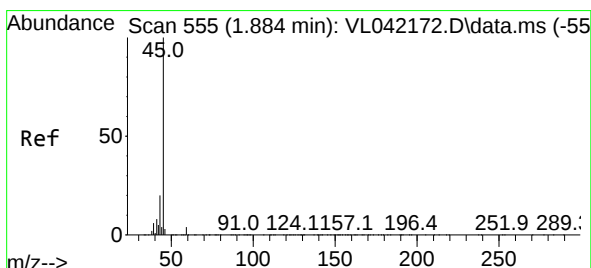
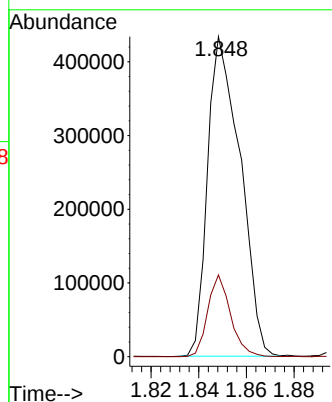
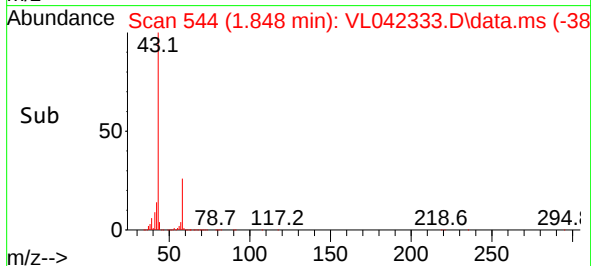
Instrument :
MSVOA_L
ClientSampleId :
IA1



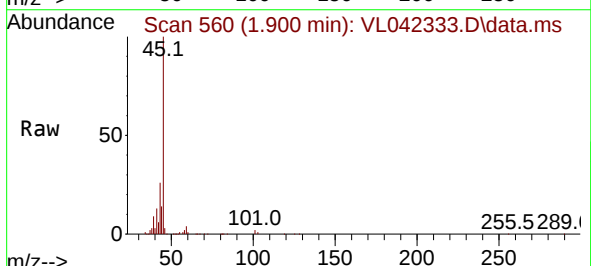
Tgt Ion: 43 Resp: 411650
Ion Ratio Lower Upper
43 100
58 18.0 23.2 34.8

Manual Integrations
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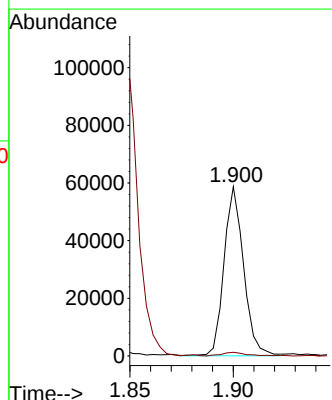
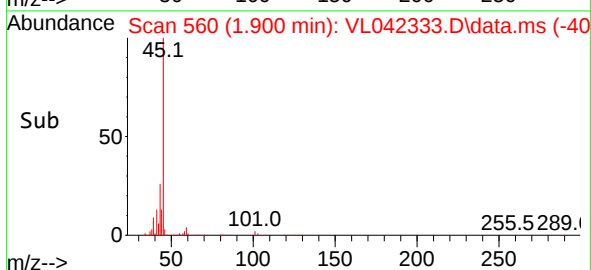
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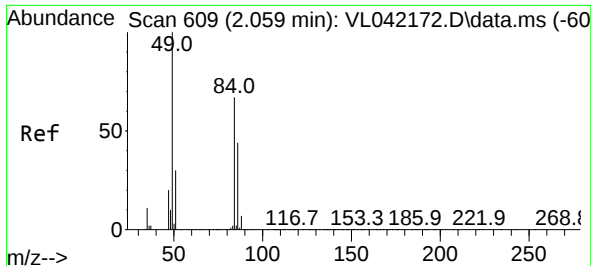


#19
Isopropyl Alcohol
Concen: 2.971 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35



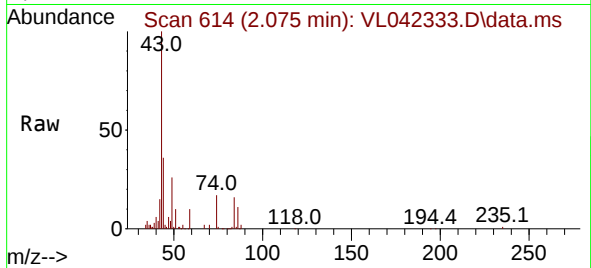
Tgt Ion: 45 Resp: 38693
Ion Ratio Lower Upper
45 100
58 191.7 36.9 55.3





#20
Methylene Chloride
Concen: 0.332 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

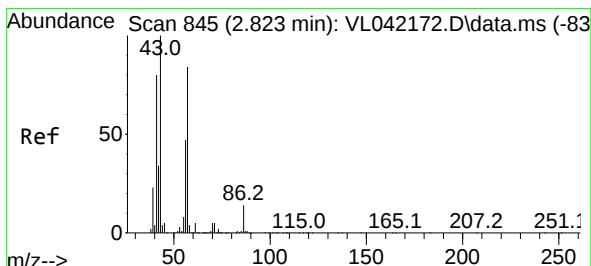
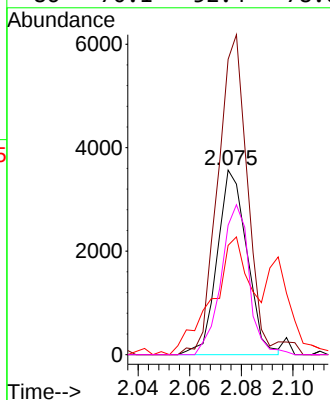
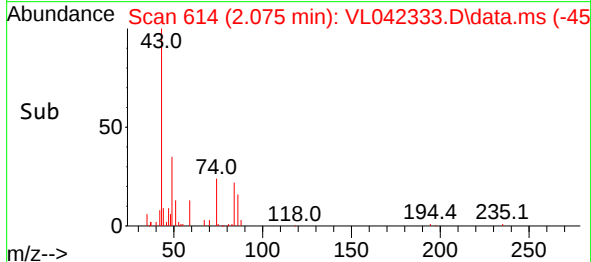
Instrument :
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ClientSampleId :
IA1



Tgt Ion:	84	Resp:	285
Ion	Ratio	Lower	Upper
84	100		
49	154.1	120.2	180.4
51	54.4	37.4	56.0
86	70.1	52.4	78.6

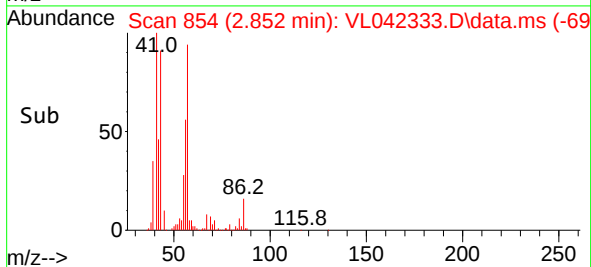
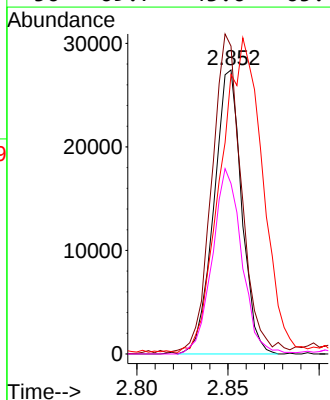
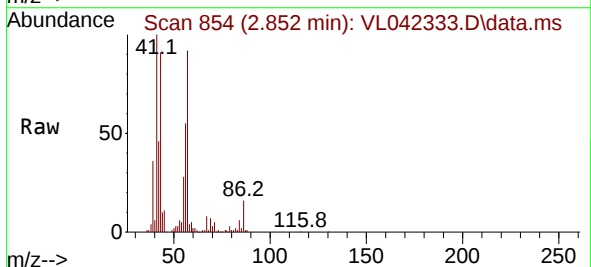
Manual Integrations
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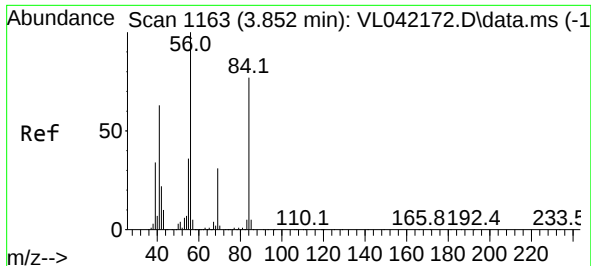
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#26
Hexane
Concen: 1.256 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.029 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

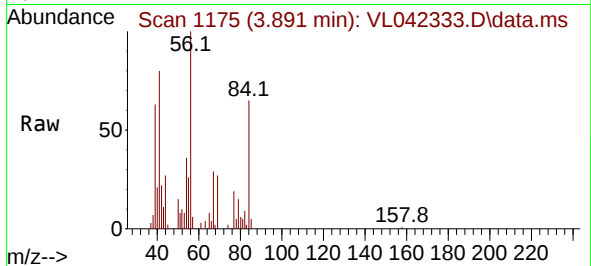
Tgt Ion:	57	Resp:	29064
Ion	Ratio	Lower	Upper
57	100		
41	121.7	76.6	114.8#
43	171.4	207.8	311.8#
56	69.7	43.6	65.4#





#30
Cyclohexane
Concen: 0.247 ppbv m
RT: 3.891 min Scan# 1163
Delta R.T. 0.039 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

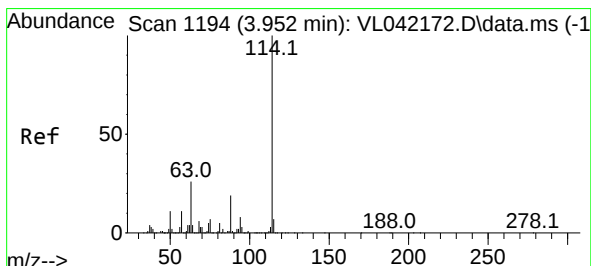
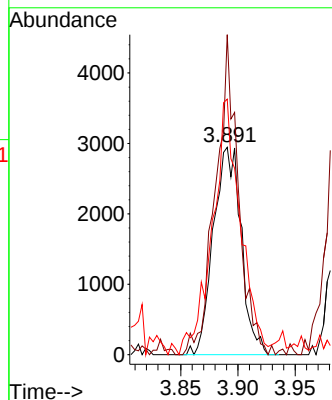
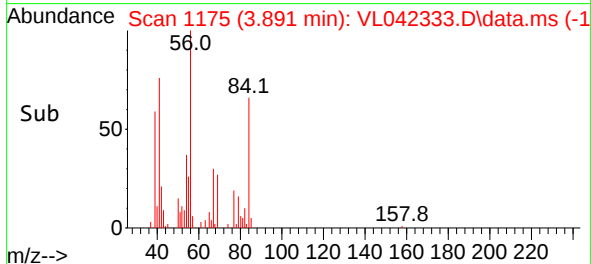
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 4960
Ion Ratio Lower Upper
84 100
56 124.9 102.8 154.2
41 129.2 66.5 99.7

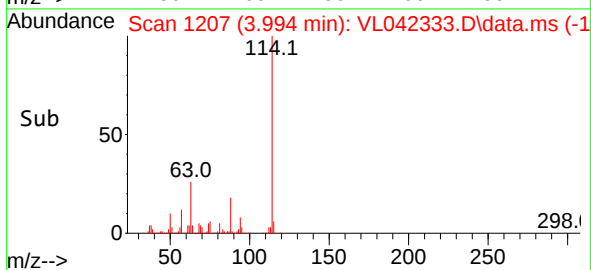
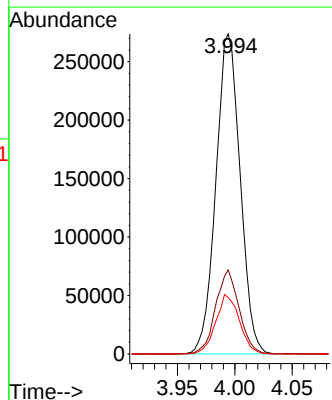
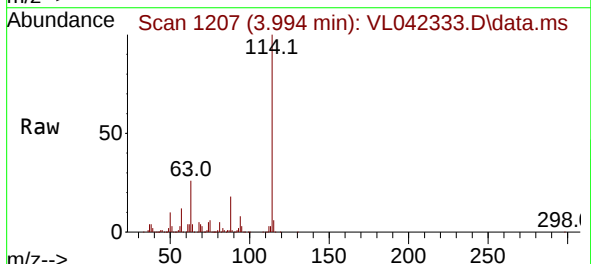
Manual Integrations
APPROVED

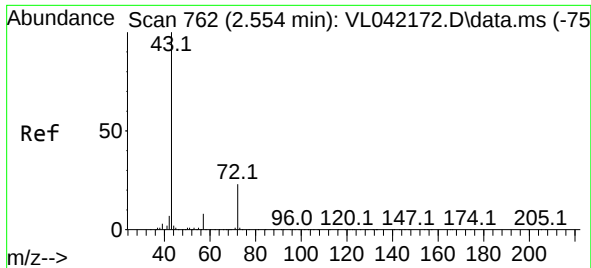
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.042 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

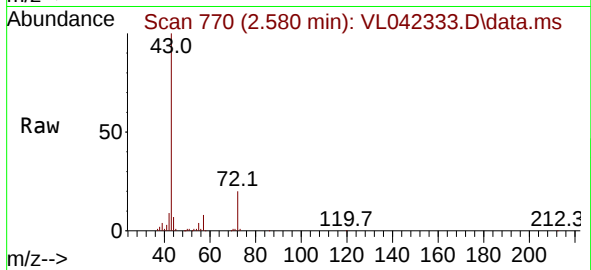
Tgt Ion:114 Resp: 401986
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 18.1 15.0 22.4





#34
2-Butanone
Concen: 1.844 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

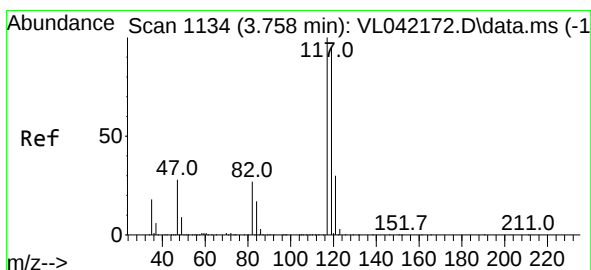
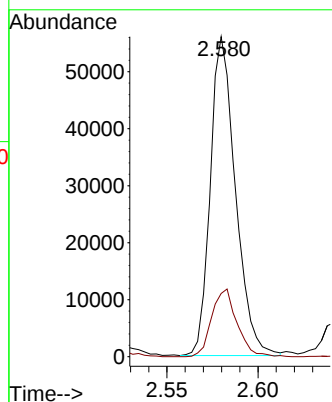
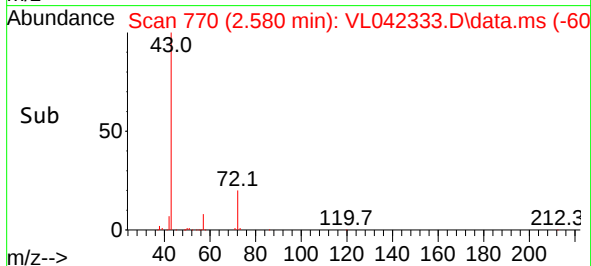
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 53740
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2

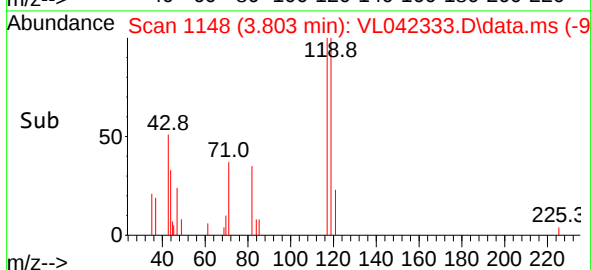
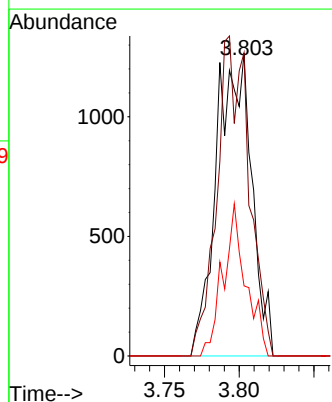
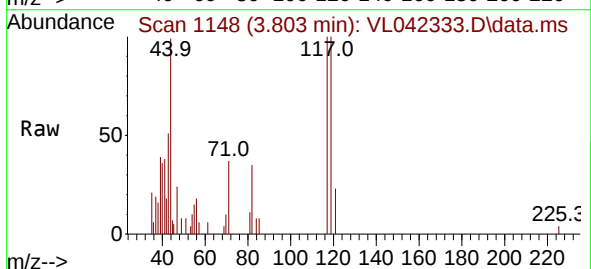
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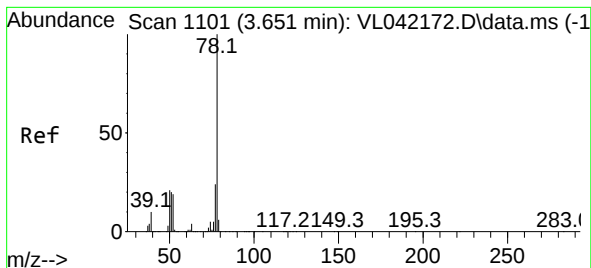
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.803 min Scan# 1148
Delta R.T. 0.045 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Tgt Ion:117 Resp: 2087
Ion Ratio Lower Upper
117 100
119 100.2 76.2 114.2
121 23.1 24.2 36.4#





#36

Benzene

Concen: 0.674 ppbv

RT: 3.687 min Scan# 1112

Delta R.T. 0.035 min

Lab File: VL042333.D

Acq: 15 Apr 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

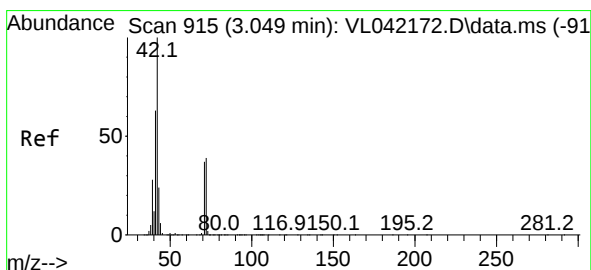
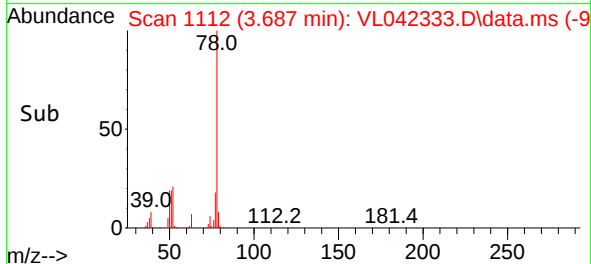
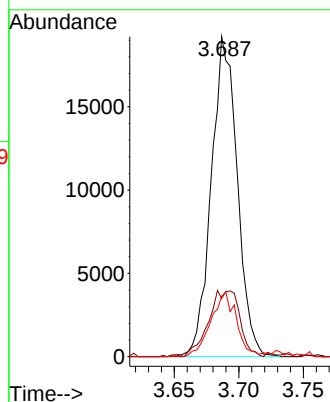
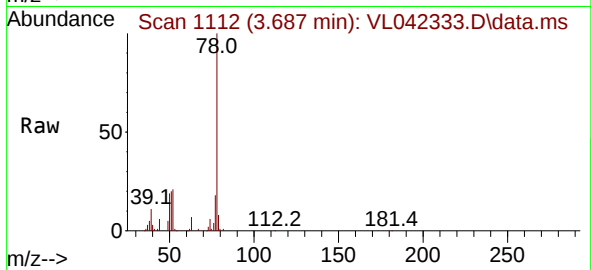
IA1

Tgt Ion: 78	Resp: 2685
Ion Ratio	Lower Upper
78 100	
77 18.2	19.1 28.7
50 18.1	16.6 24.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#41

Tetrahydrofuran

Concen: 3.208 ppbv

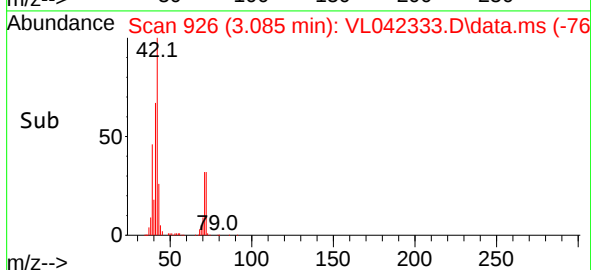
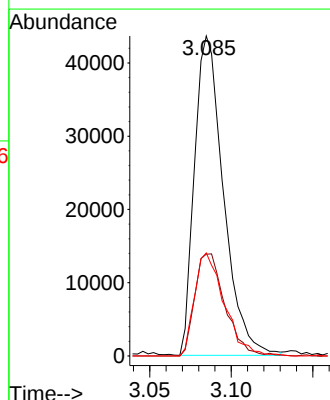
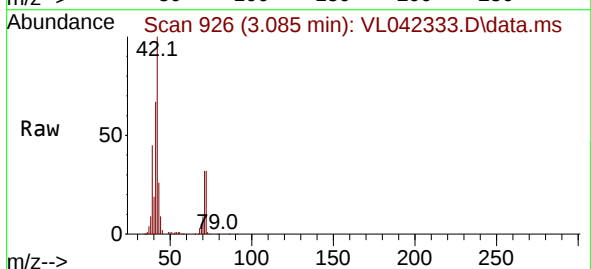
RT: 3.085 min Scan# 926

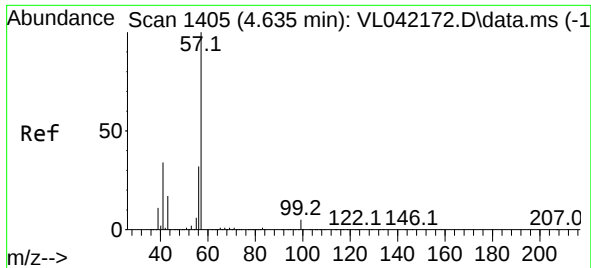
Delta R.T. 0.035 min

Lab File: VL042333.D

Acq: 15 Apr 2025 15:35

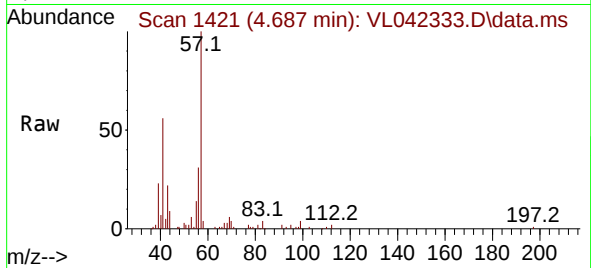
Tgt Ion: 42	Resp: 53848
Ion Ratio	Lower Upper
42 100	
72 33.4	31.4 47.0
71 33.1	30.2 45.4





#44
2,2,4-Trimethylpentane
Concen: 0.430 ppbv m
RT: 4.687 min Scan# 1405
Delta R.T. 0.052 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

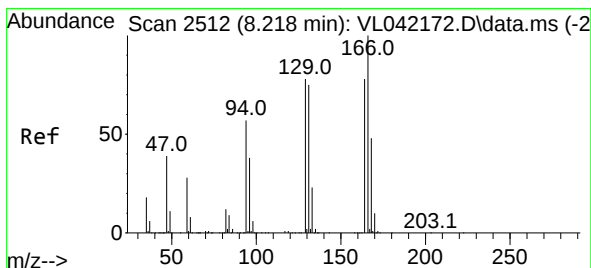
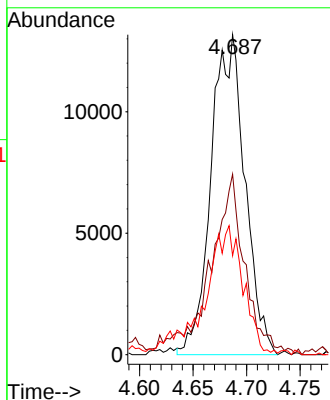
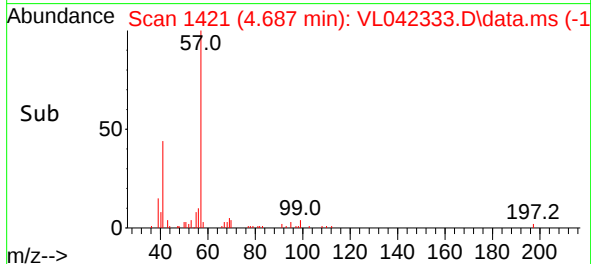
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 2893
Ion Ratio Lower Upper
57 100
41 58.6 26.8 40.2
56 46.7 25.6 38.4

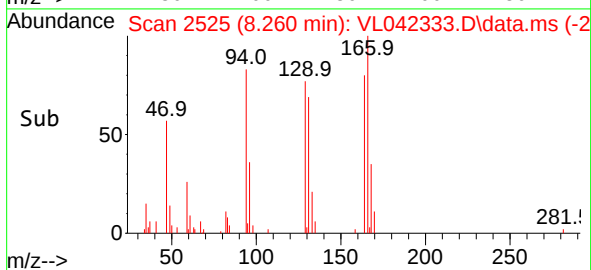
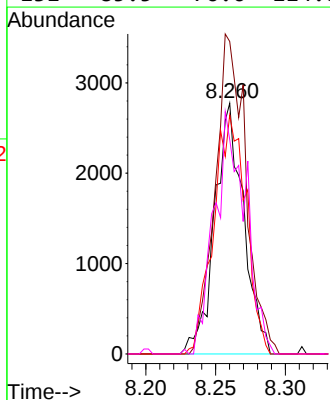
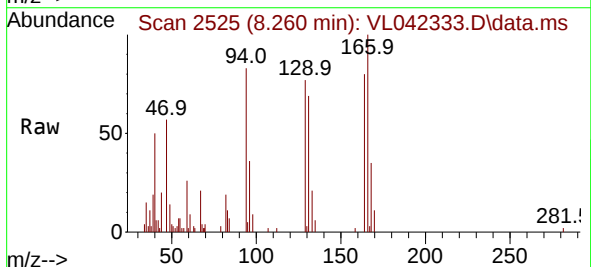
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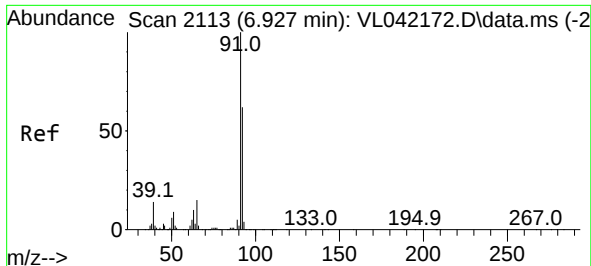
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#52
Tetrachloroethene
Concen: 0.253 ppbv m
RT: 8.260 min Scan# 2525
Delta R.T. 0.042 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Tgt Ion:164 Resp: 3994
Ion Ratio Lower Upper
164 100
166 124.6 102.5 153.7
129 95.4 79.8 119.8
131 85.5 76.6 114.8





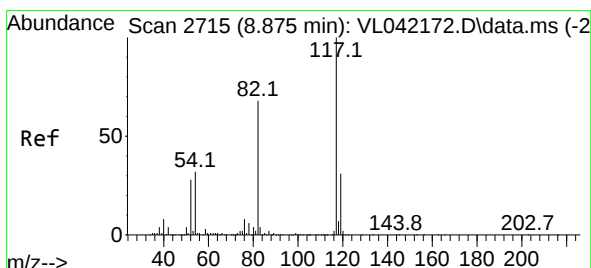
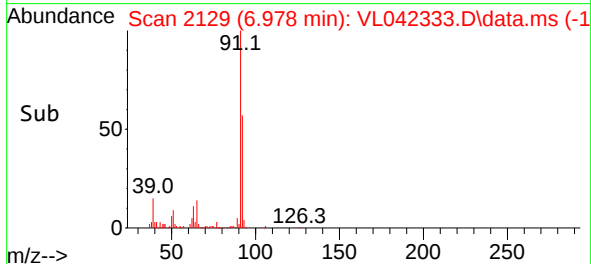
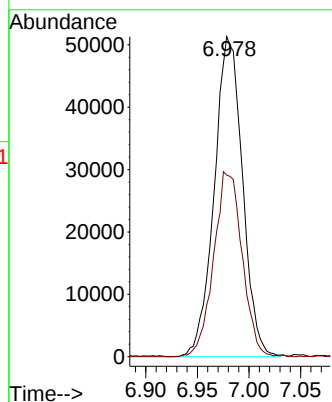
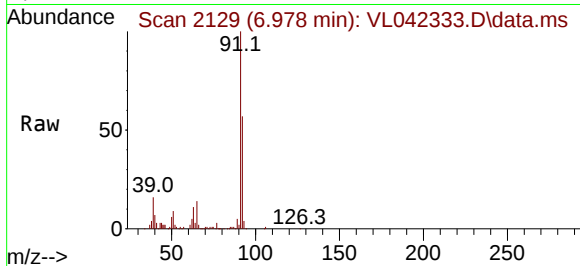
#53
Toluene
Concen: 2.067 ppbv
RT: 6.978 min Scan# 2113
Delta R.T. 0.051 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 97628
Ion Ratio Lower Upper
91 100
92 58.3 48.4 72.6

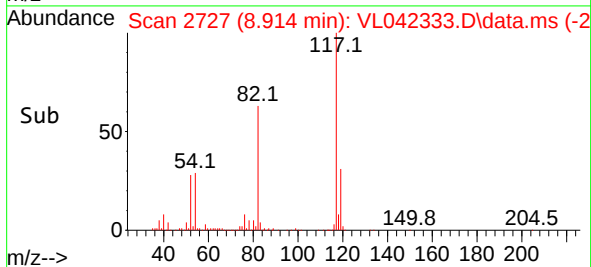
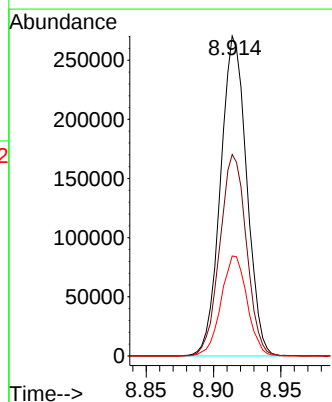
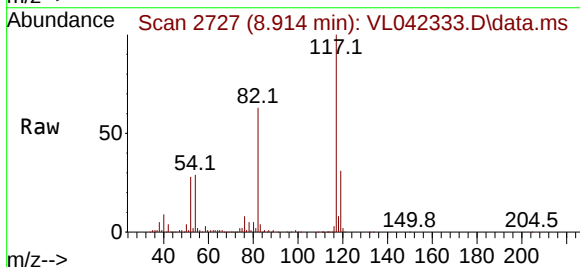
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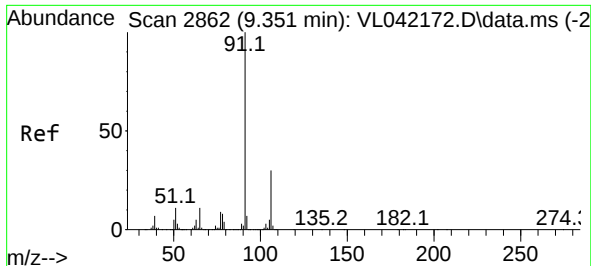
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.039 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Tgt Ion:117 Resp: 365464
Ion Ratio Lower Upper
117 100
82 64.1 55.8 83.6
119 31.1 25.5 38.3





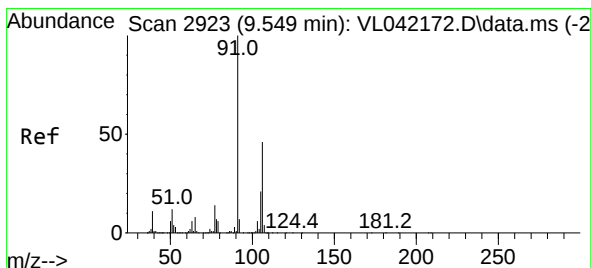
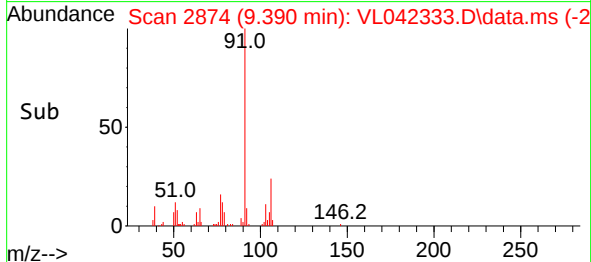
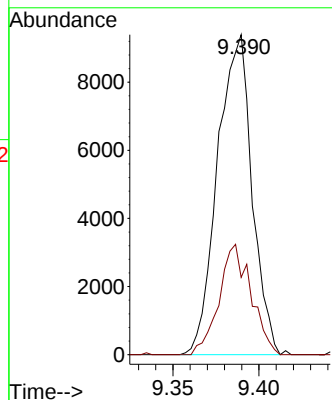
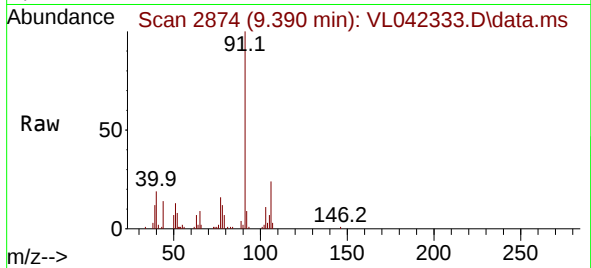
#58
Ethyl Benzene
Concen: 0.201 ppbv
RT: 9.390 min Scan# 21
Delta R.T. 0.039 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 1306
Ion Ratio Lower Upper
91 100
106 24.2 24.2 36.2

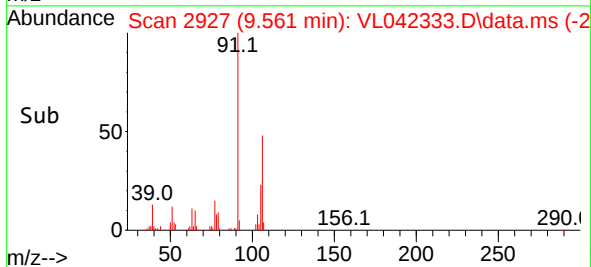
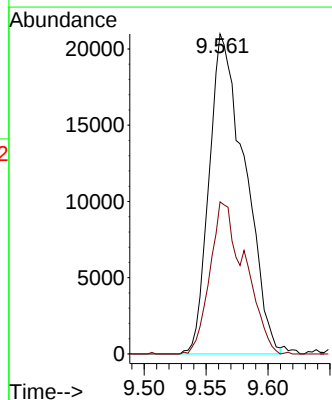
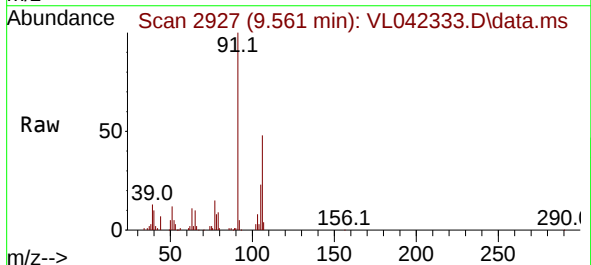
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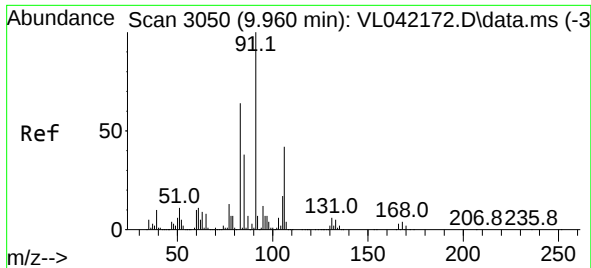
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#59
m/p-Xylene
Concen: 0.814 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. 0.013 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

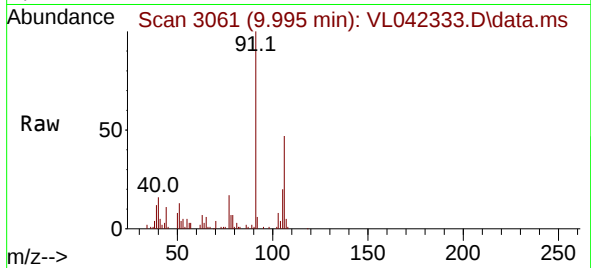
Tgt Ion: 91 Resp: 42208
Ion Ratio Lower Upper
91 100
106 46.4 36.4 54.6





#60
o-Xylene
Concen: 0.269 ppbv
RT: 9.995 min Scan# 3050
Delta R.T. 0.035 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35

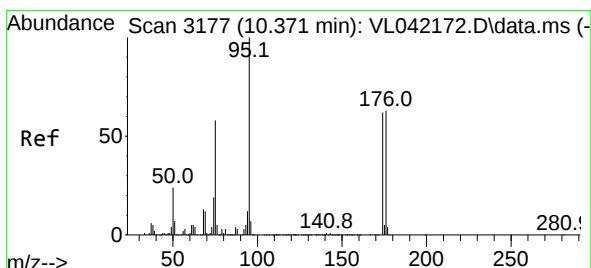
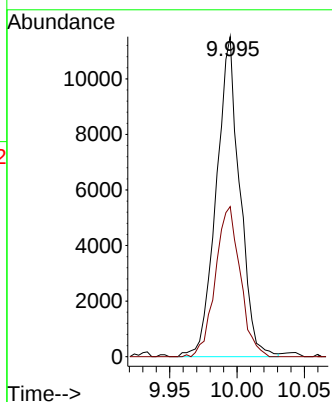
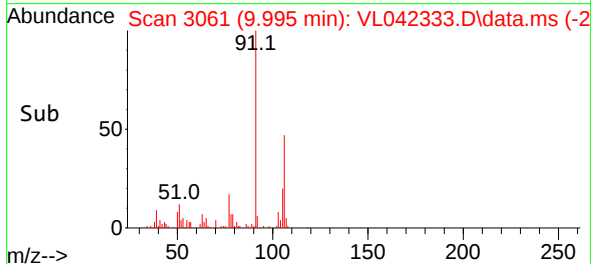
Instrument :
MSVOA_L
ClientSampleId :
IA1



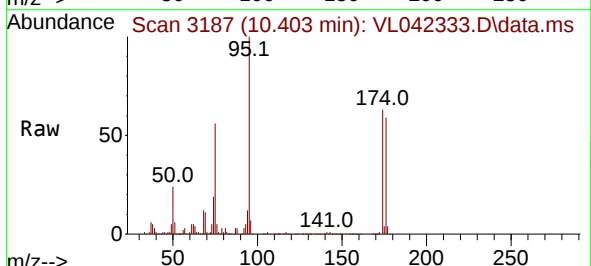
Tgt Ion: 91 Resp: 13960
Ion Ratio Lower Upper
91 100
106 49.6 20.8 62.5

Manual Integrations
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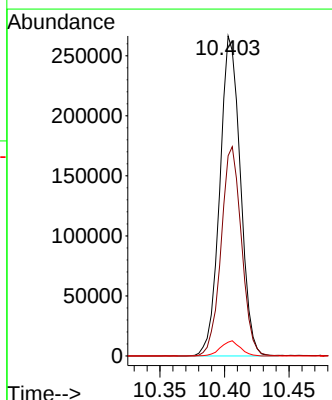
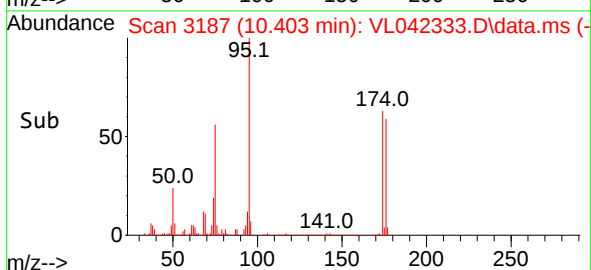
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

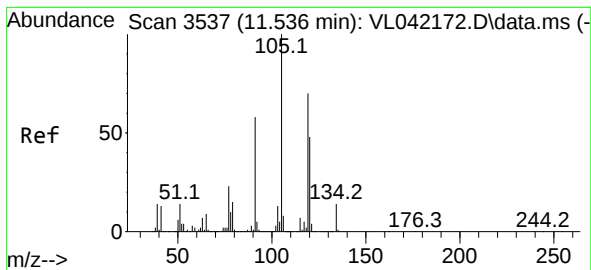


#68
1-Bromo-4-Fluorobenzene
Concen: 9.793 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.032 min
Lab File: VL042333.D
Acq: 15 Apr 2025 15:35



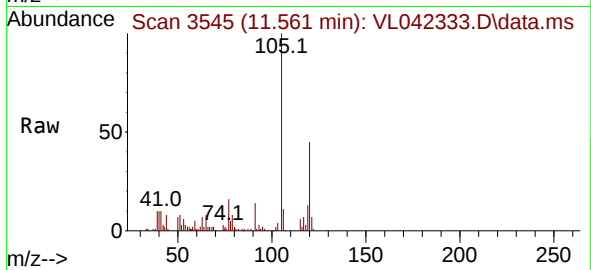
Tgt Ion: 95 Resp: 293899
Ion Ratio Lower Upper
95 100
174 65.2 50.6 76.0
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.275 ppbv
 RT: 11.561 min Scan# 30
 Delta R.T. 0.026 min
 Lab File: VL042333.D
 Acq: 15 Apr 2025 15:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	17878
Ion	Ratio	Lower	Upper
105	100		
120	45.6	38.6	58.0
91	13.3	46.2	69.2
77	15.3	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

