

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022125\
 Data File : VL042038.D
 Acq On : 21 Feb 2025 13:20
 Operator : SY/MD
 Sample : Q1386-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2025
 Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 21 21:52:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

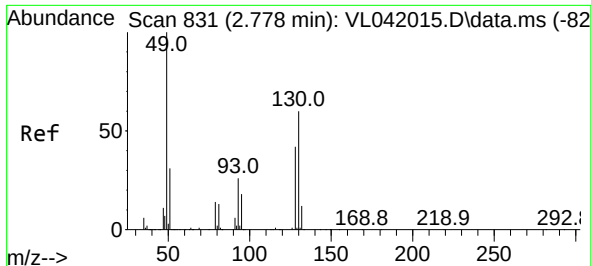
Internal Standards						
1) Bromochloromethane	2.790	49	102359	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	260637	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.885	117	236485	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	197760	10.138	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8017	0.455	ppbv	91
3) Chlorodifluoromethane	1.476	51	91064	4.675	ppbv #	87
4) Chloromethane	1.535	50	3379m	0.493	ppbv	
9) Propene	1.489	41	107754m	12.831	ppbv	
10) Heptane	4.991	43	5436m	0.233	ppbv	
11) Trichlorofluoromethane	1.878	101	8686	0.490	ppbv	96
13) Ethanol	1.722	45	221398	233.728	ppbv	79
15) Acetone	1.835	43	602373	35.653	ppbv	97
17) tert-Butyl alcohol	2.046	59	2469	0.118	ppbv #	70
19) Isopropyl Alcohol	1.887	45	314221	33.167	ppbv	91
20) Methylene Chloride	2.062	84	226843	35.667	ppbv	94
26) Hexane	2.829	57	164162	8.822	ppbv #	42
29) Chloroform	2.852	83	5776	0.214	ppbv	89
31) cis-1,2-Dichloroethene	2.726	61	5277	0.287	ppbv #	84
34) 2-Butanone	2.564	43	20676	0.922	ppbv	98
35) Carbon Tetrachloride	3.768	117	2477m	0.098	ppbv	
36) Benzene	3.658	78	7409	0.235	ppbv #	85
38) Trichloroethene	4.554	130	7202m	0.561	ppbv	
41) Tetrahydrofuran	3.065	42	10347	0.807	ppbv	98
43) Methyl Methacrylate	4.884	69	20559m	1.428	ppbv	
52) Tetrachloroethene	8.228	164	160076	14.537	ppbv	92
53) Toluene	6.936	91	14022m	0.373	ppbv	
59) m/p-Xylene	9.539	91	4987m	0.122	ppbv	
76) 1,4-Dichlorobenzene	11.675	146	6491	0.277	ppbv	92

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

Manual Integrations

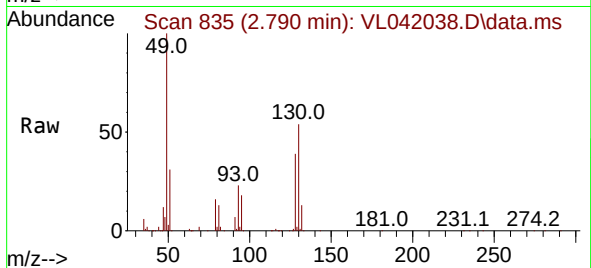
Quant Time: Feb 21 21:52:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. -0.010 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

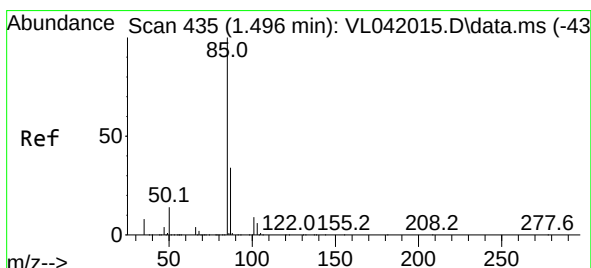
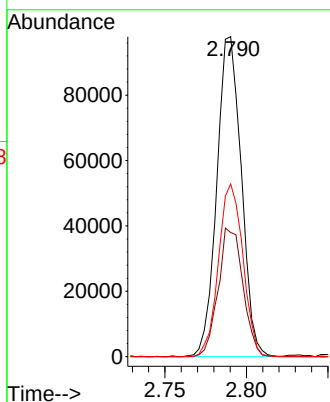
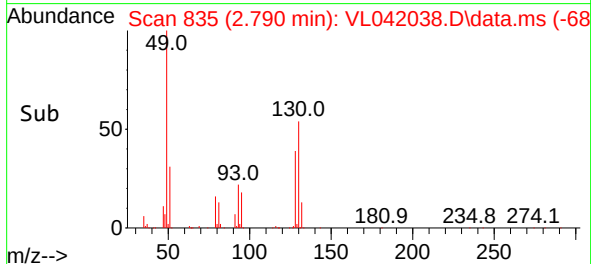
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion: 49 Resp: 10235
Ion Ratio Lower Upper
49 100
128 40.6 22.7 68.0
130 53.8 29.9 89.8

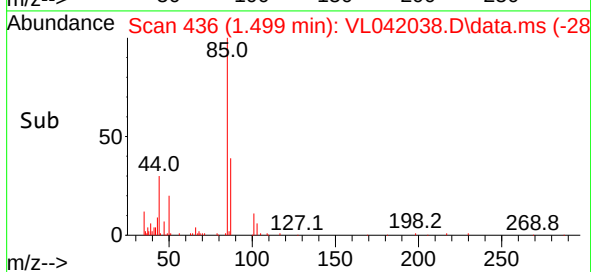
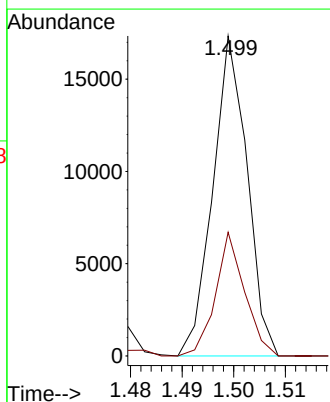
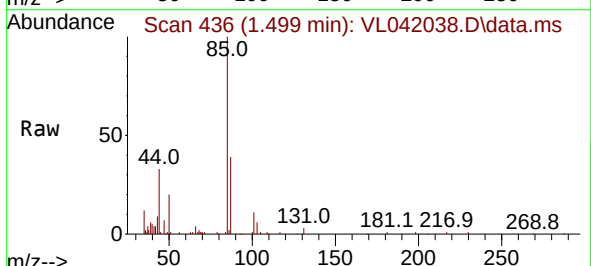
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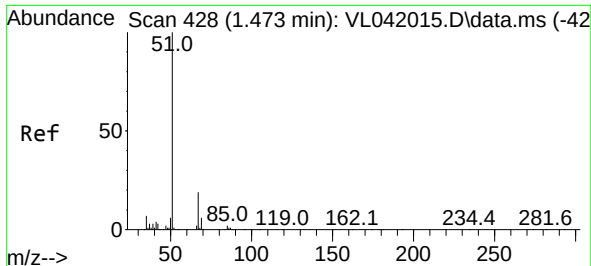
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#2
Dichlorodifluoromethane
Concen: 0.455 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

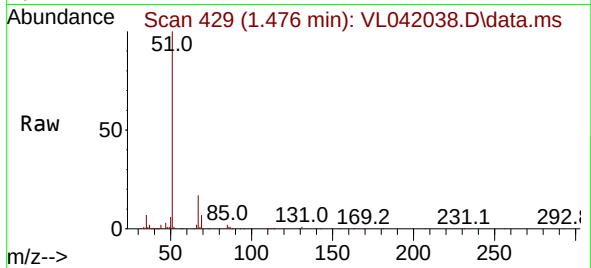
Tgt Ion: 85 Resp: 8017
Ion Ratio Lower Upper
85 100
87 38.6 26.9 40.3





#3
Chlorodifluoromethane
Concen: 4.675 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

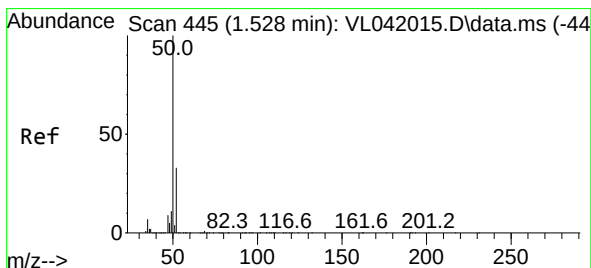
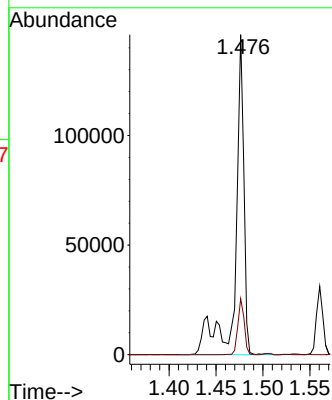
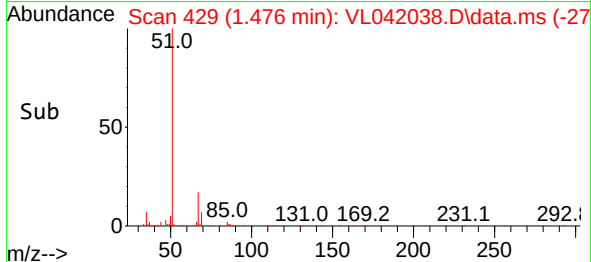
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion: 51 Resp: 91064
Ion Ratio Lower Upper
51 100
67 13.1 15.0 22.6

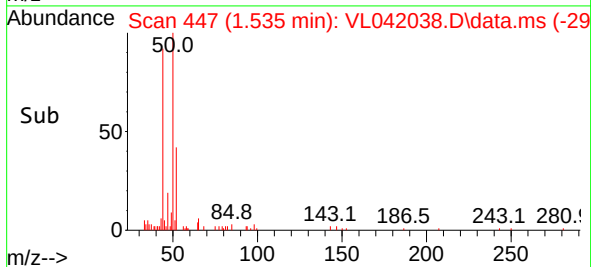
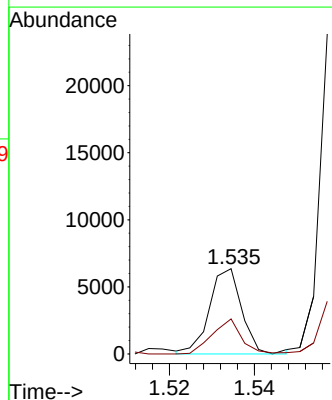
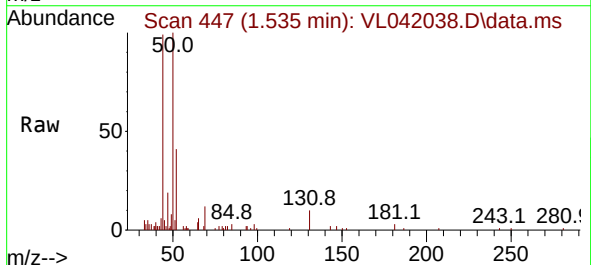
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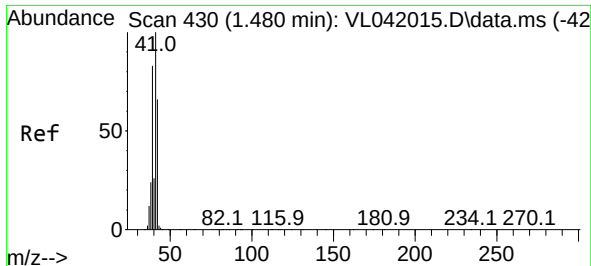
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#4
Chloromethane
Concen: 0.493 ppbv m
RT: 1.535 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Tgt Ion: 50 Resp: 3379
Ion Ratio Lower Upper
50 100
52 41.1 26.2 39.2





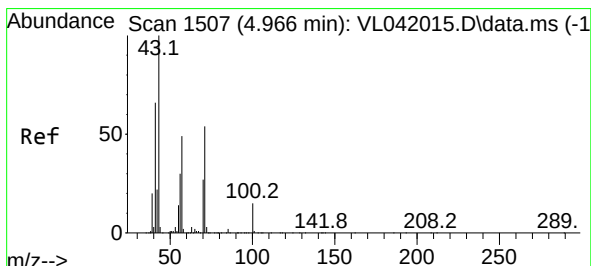
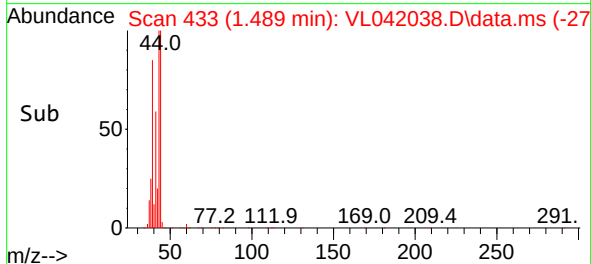
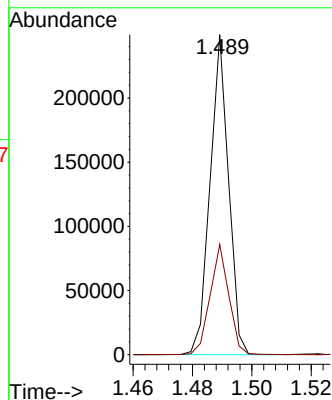
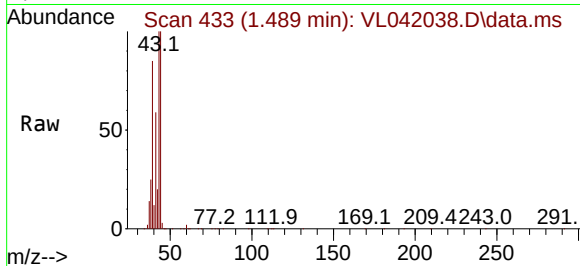
#9
 Propene
 Concen: 12.831 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042038.D
 Acq: 21 Feb 2025 13:20

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

Tgt Ion: 41 Resp: 107754
 Ion Ratio Lower Upper
 41 100
 42 427.1 53.5 80.3

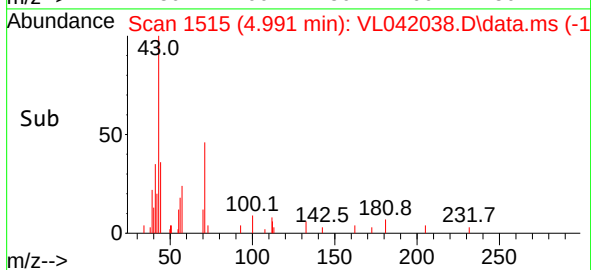
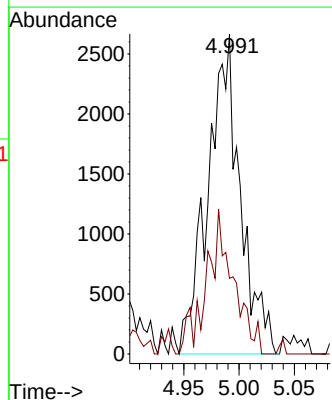
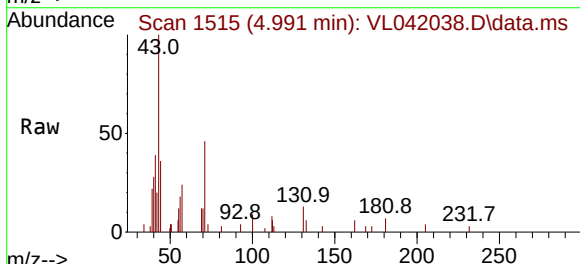
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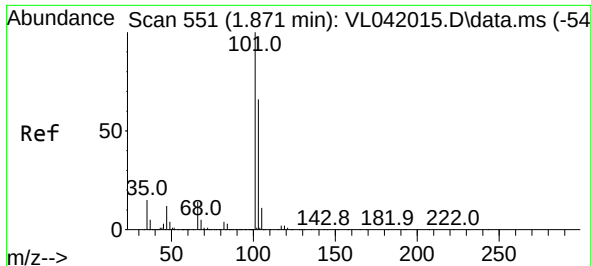
Reviewed By :Semsettin Yesilyurt 02/24/2025
 Supervised By :Mahesh Dadoda 02/24/2025



#10
 Heptane
 Concen: 0.233 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. -0.013 min
 Lab File: VL042038.D
 Acq: 21 Feb 2025 13:20

Tgt Ion: 43 Resp: 5436
 Ion Ratio Lower Upper
 43 100
 57 39.6 41.0 61.6





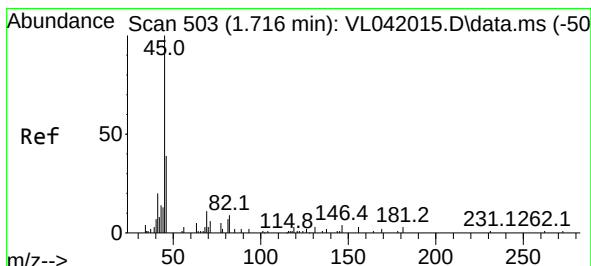
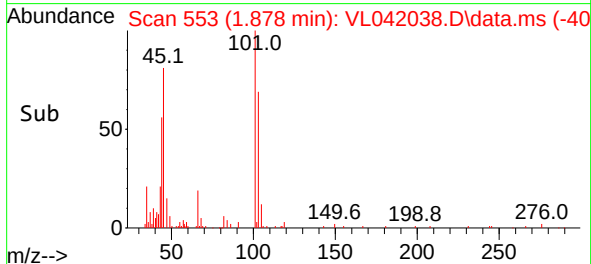
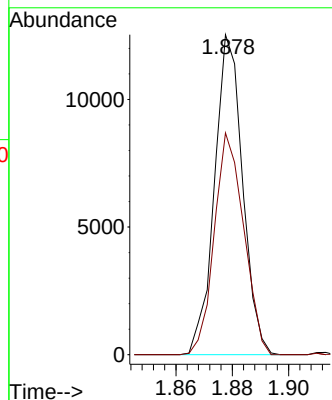
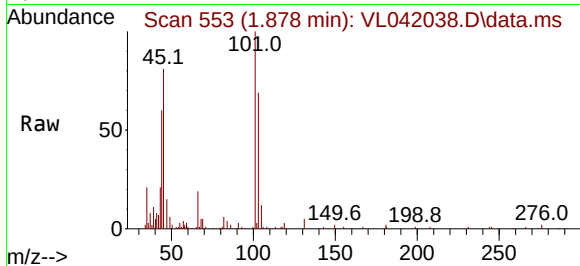
#11
Trichlorofluoromethane
Concen: 0.490 ppbv
RT: 1.878 min Scan# 505
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

Tgt Ion:101 Resp: 8680
Ion Ratio Lower Upper
101 100
103 69.3 52.9 79.3

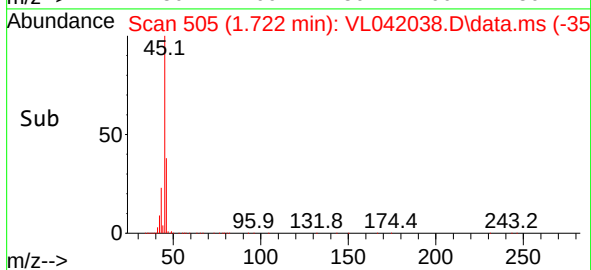
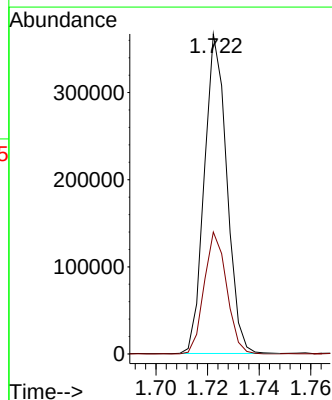
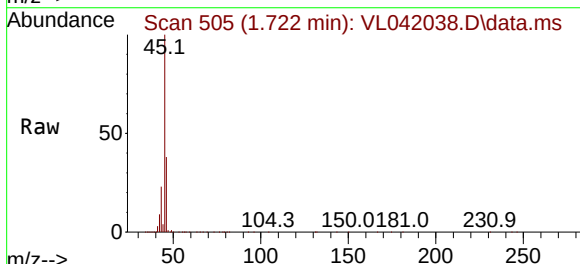
Manual Integrations
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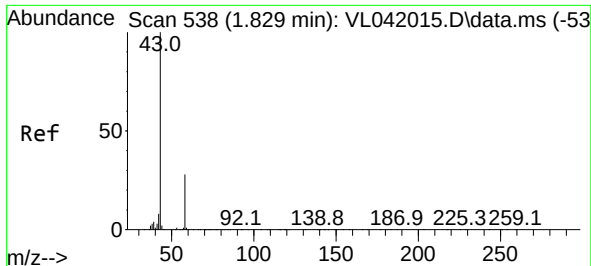
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#13
Ethanol
Concen: 233.728 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Tgt Ion: 45 Resp: 221398
Ion Ratio Lower Upper
45 100
46 38.4 21.3 85.1





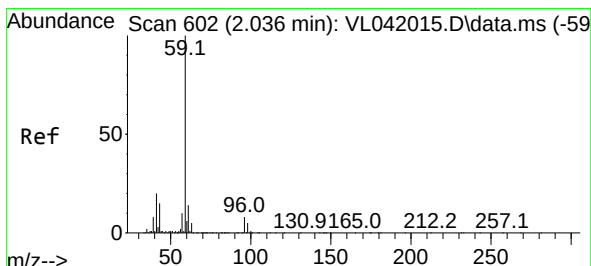
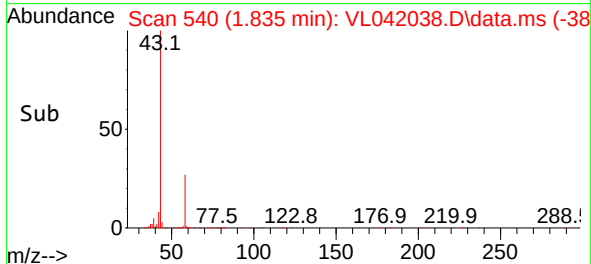
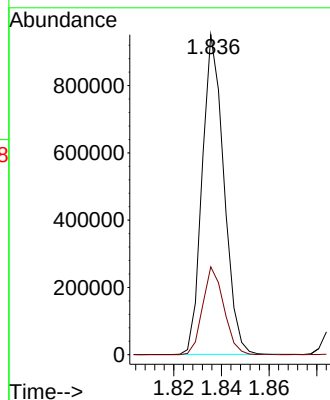
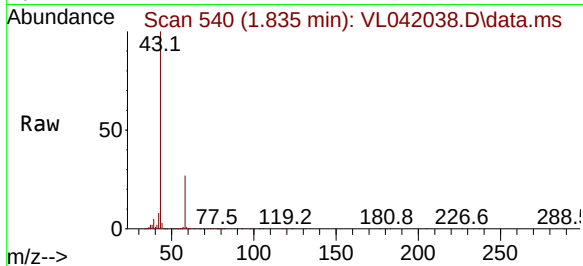
#15
Acetone
Concen: 35.653 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

Tgt Ion: 43 Resp: 60237
Ion Ratio Lower Upper
43 100
58 26.8 22.9 34.3

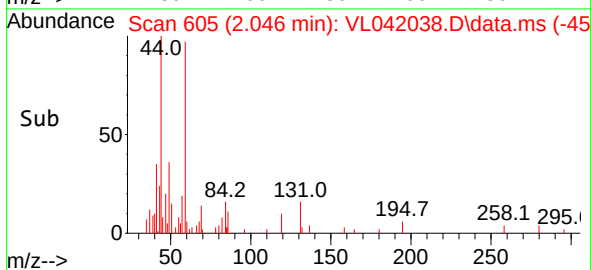
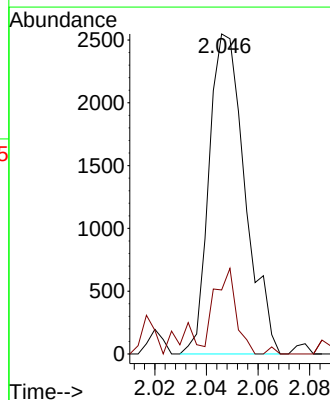
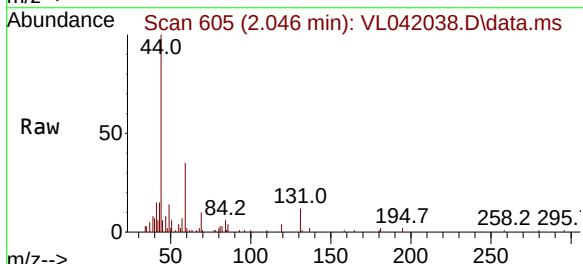
Manual Integrations
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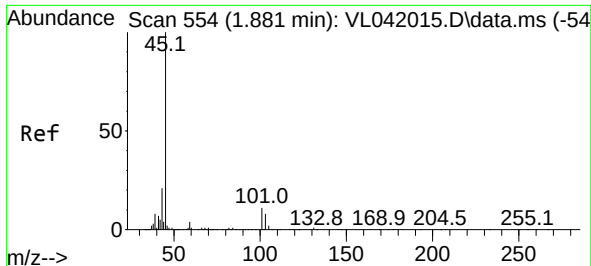
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#17
tert-Butyl alcohol
Concen: 0.118 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.003 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Tgt Ion: 59 Resp: 2469
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8





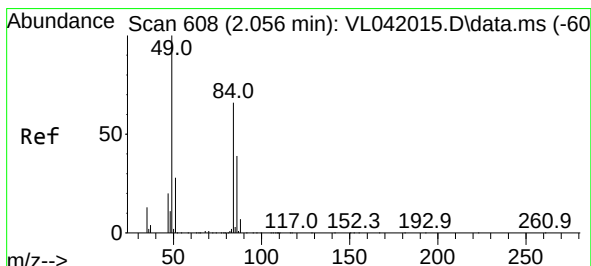
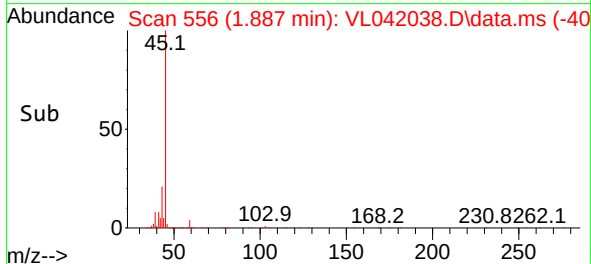
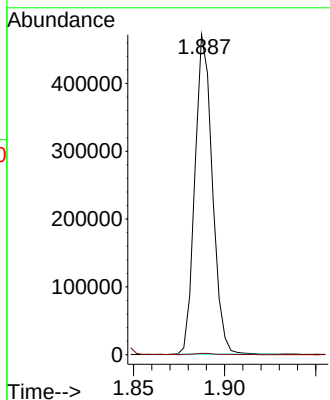
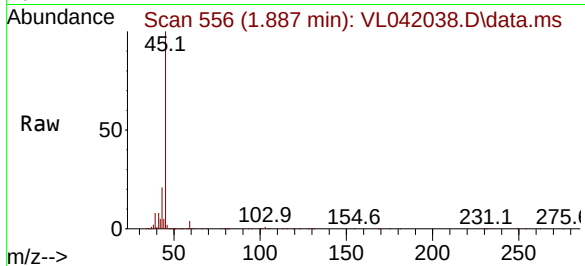
#19
Isopropyl Alcohol
Concen: 33.167 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

Tgt Ion: 45 Resp: 31422
Ion Ratio Lower Upper
45 100
58 51.5 36.2 54.4

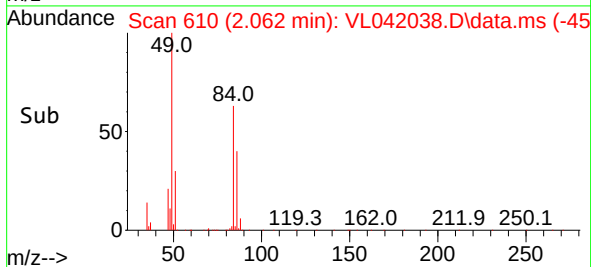
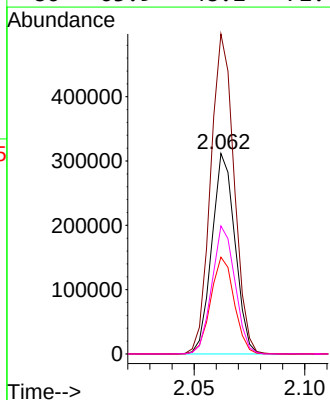
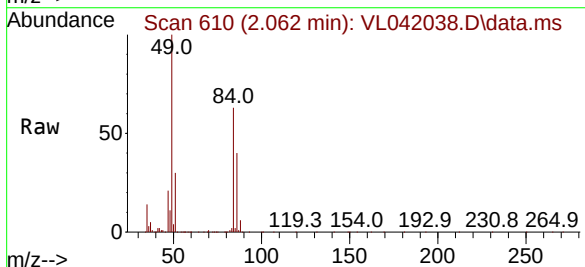
Manual Integrations
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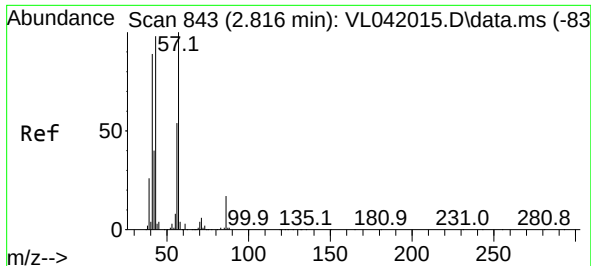
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#20
Methylene Chloride
Concen: 35.667 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

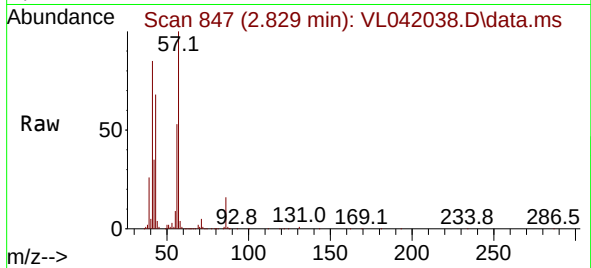
Tgt Ion: 84 Resp: 226843
Ion Ratio Lower Upper
84 100
49 159.6 121.0 181.4
51 48.3 35.1 52.7
86 63.9 48.2 72.4





#26
Hexane
Concen: 8.822 ppbv
RT: 2.829 min Scan# 843
Delta R.T. -0.009 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

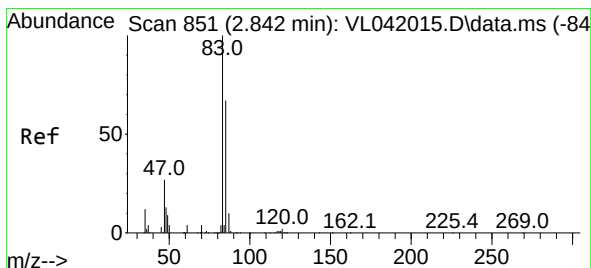
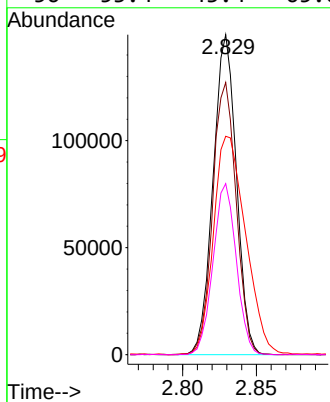
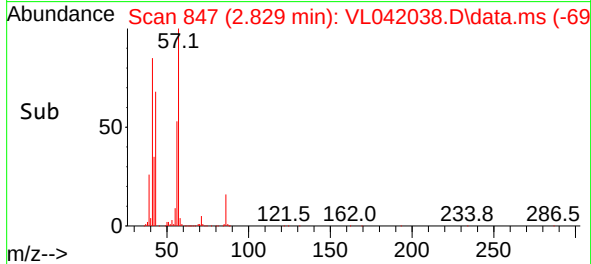
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion: 57 Resp: 164162
Ion Ratio Lower Upper
57 100
41 86.4 73.2 109.8
43 94.9 200.8 301.2
56 53.4 43.4 65.0

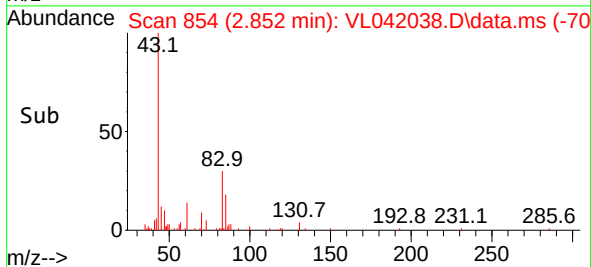
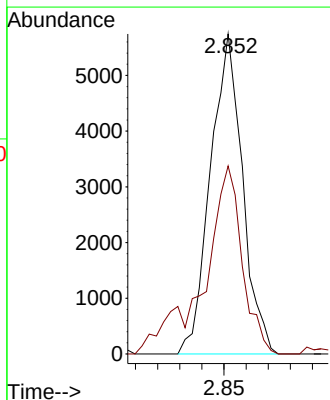
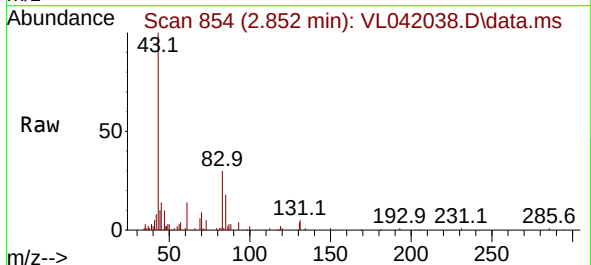
Manual Integrations
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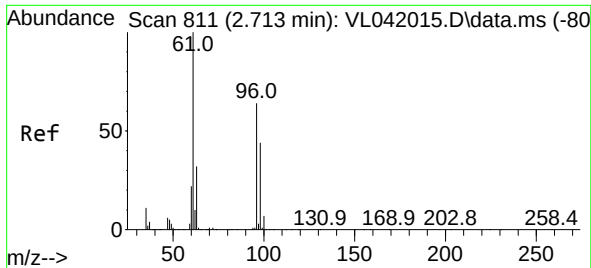
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#29
Chloroform
Concen: 0.214 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.009 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

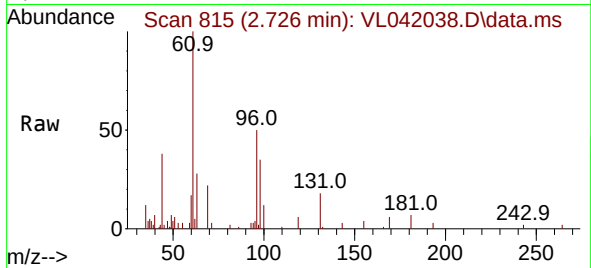
Tgt Ion: 83 Resp: 5776
Ion Ratio Lower Upper
83 100
85 58.7 53.8 80.6





#31
cis-1,2-Dichloroethene
Concen: 0.287 ppbv
RT: 2.726 min Scan# 811
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

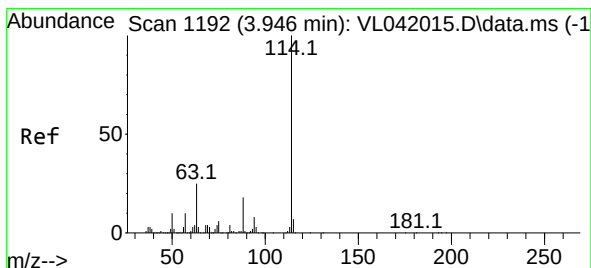
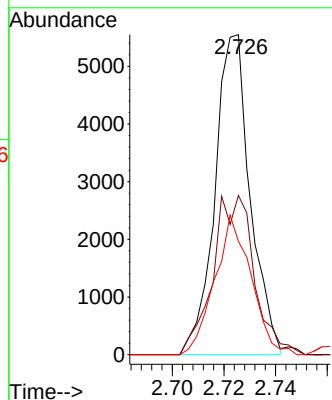
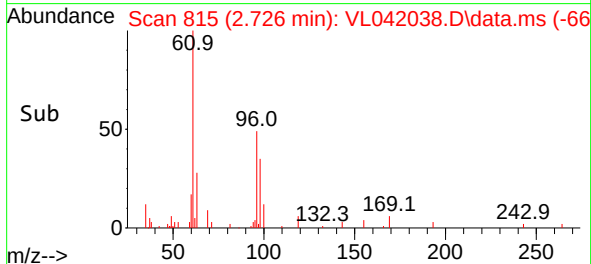
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion: 61 Resp: 527
Ion Ratio Lower Upper
61 100
96 49.8 51.6 77.4
98 35.4 34.8 52.2

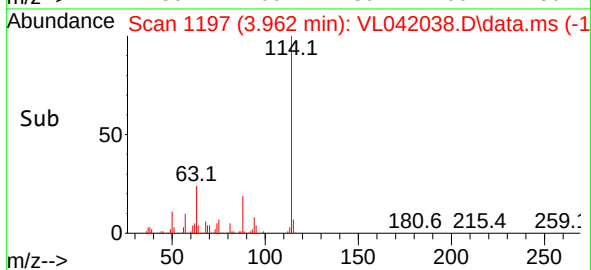
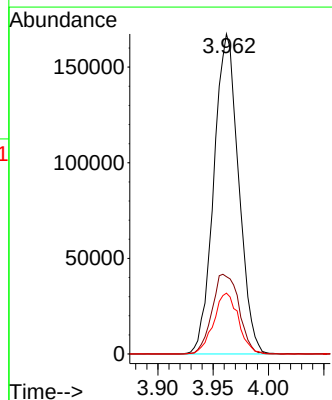
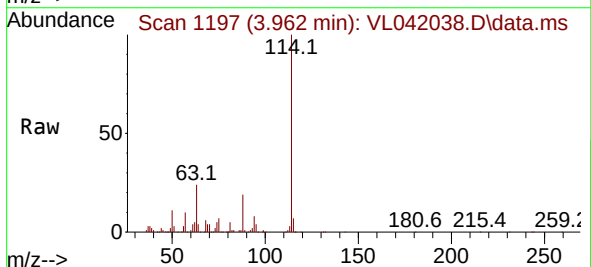
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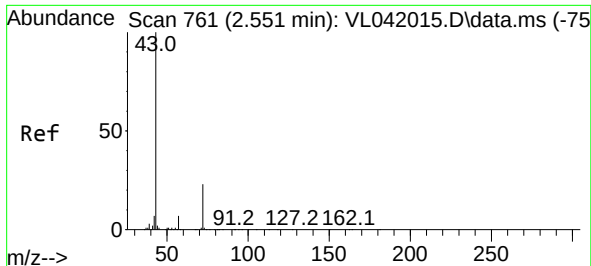
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.016 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

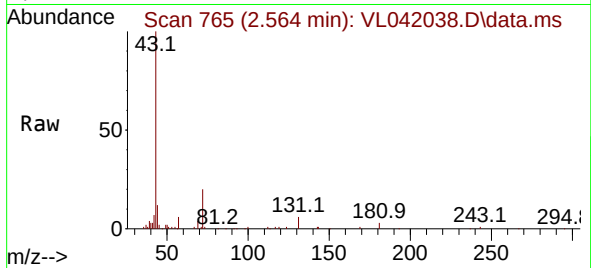
Tgt Ion:114 Resp: 260637
Ion Ratio Lower Upper
114 100
63 27.1 20.2 30.2
88 19.1 14.4 21.6





#34
2-Butanone
Concen: 0.922 ppbv
RT: 2.564 min Scan# 765
Delta R.T. -0.006 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

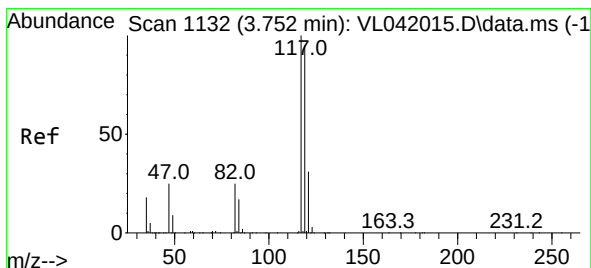
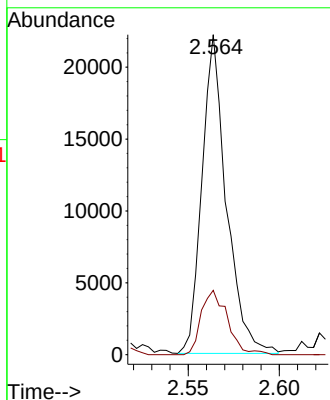
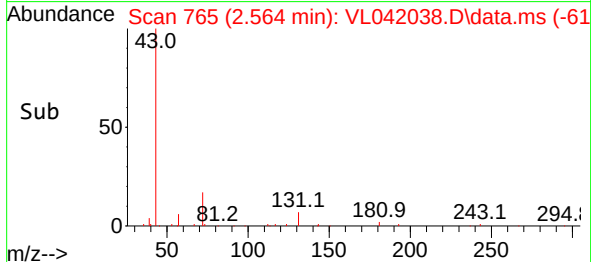
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion: 43 Resp: 20670
Ion Ratio Lower Upper
43 100
72 21.8 18.3 27.5

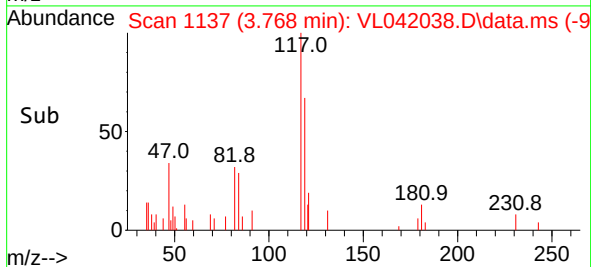
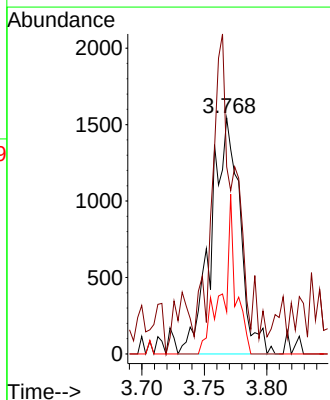
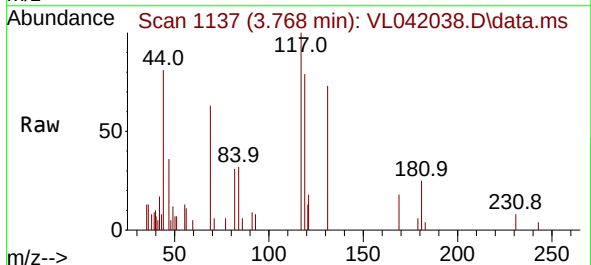
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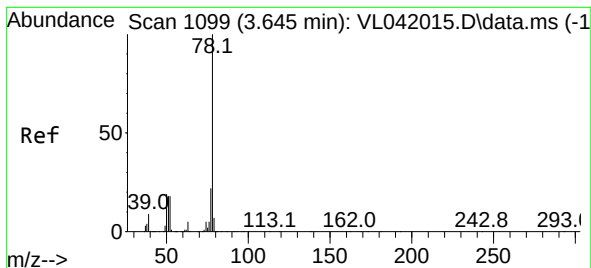
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#35
Carbon Tetrachloride
Concen: 0.098 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.013 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

Tgt Ion:117 Resp: 2477
Ion Ratio Lower Upper
117 100
119 79.3 75.8 113.6
121 17.8 24.6 36.8#





#36

Benzene

Concen: 0.235 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. -0.016 min

Lab File: VL042038.D

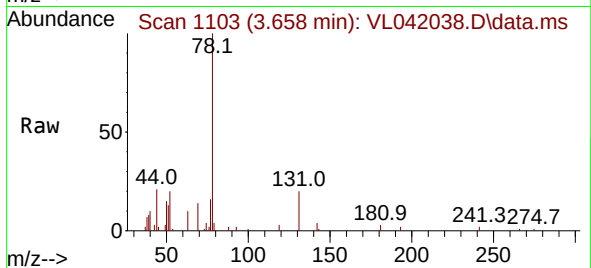
Acq: 21 Feb 2025 13:20

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP



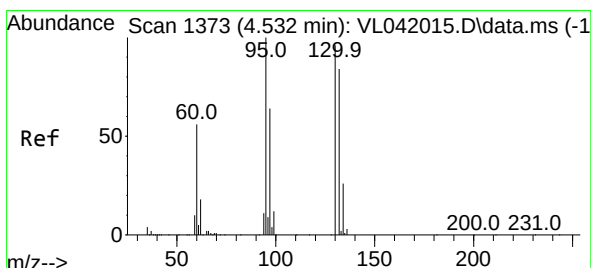
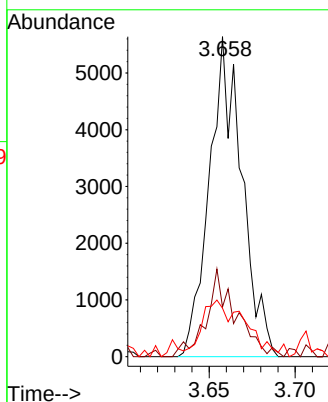
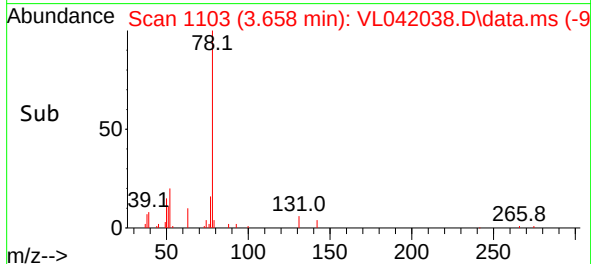
Tgt Ion: 78 Resp: 7409

Ion	Ratio	Lower	Upper
78	100		
77	14.2	18.0	27.0
50	13.9	15.2	22.8

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Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#38

Trichloroethene

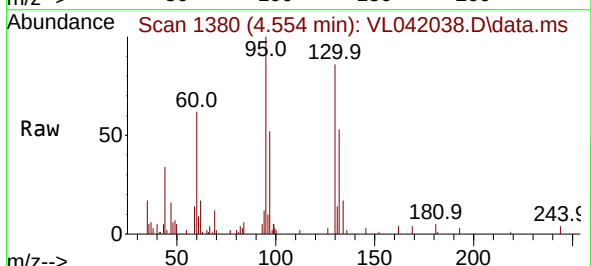
Concen: 0.561 ppbv m

RT: 4.554 min Scan# 1380

Delta R.T. -0.013 min

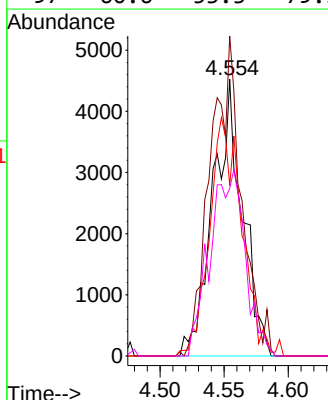
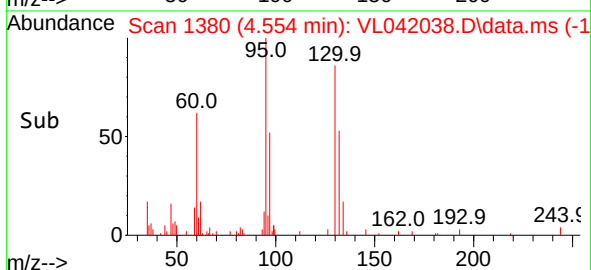
Lab File: VL042038.D

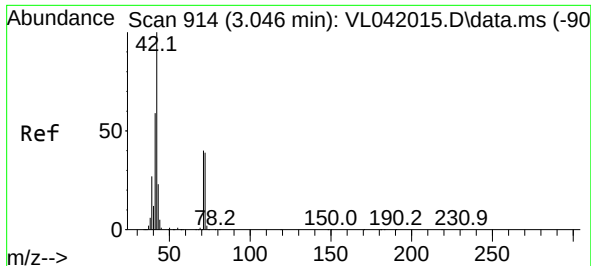
Acq: 21 Feb 2025 13:20



Tgt Ion:130 Resp: 7202

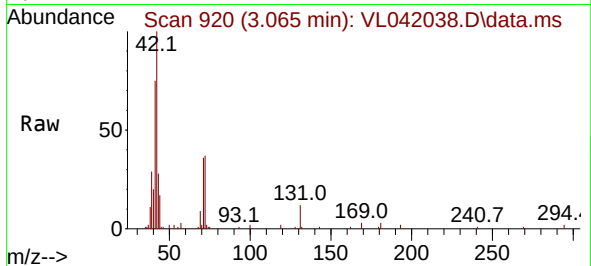
Ion	Ratio	Lower	Upper
130	100		
95	115.7	82.8	124.2
132	61.6	70.0	105.0
97	60.6	53.3	79.9





#41
Tetrahydrofuran
Concen: 0.807 ppbv
RT: 3.065 min Scan# 914
Delta R.T. -0.003 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

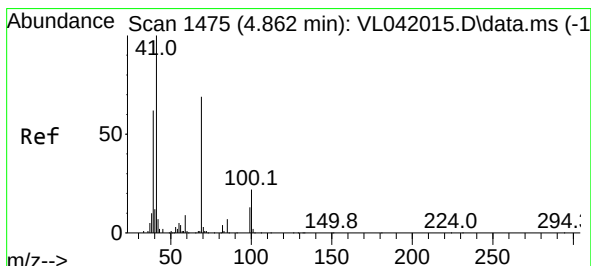
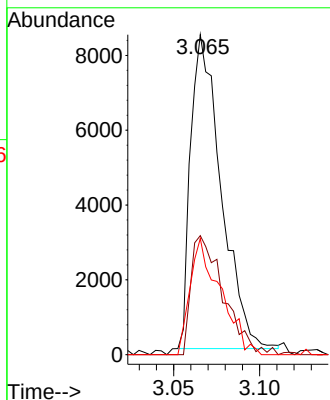
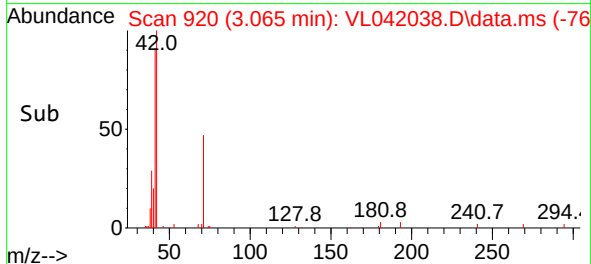
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



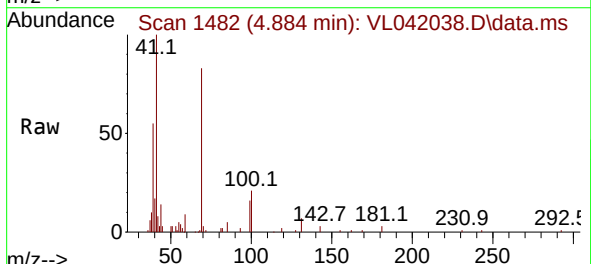
Tgt Ion: 42 Resp: 1034
Ion Ratio Lower Upper
42 100
72 40.7 32.3 48.5
71 36.8 30.9 46.3

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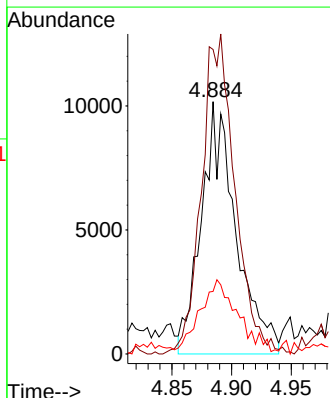
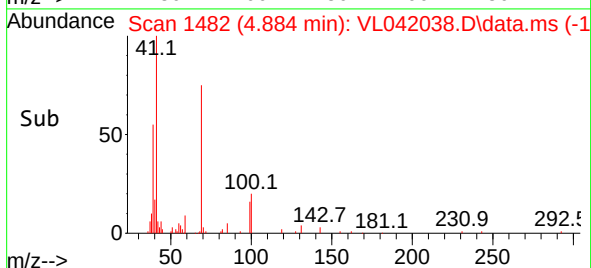
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

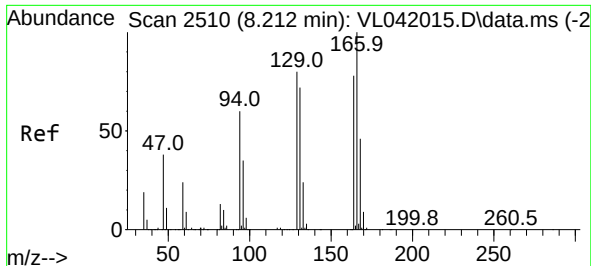


#43
Methyl Methacrylate
Concen: 1.428 ppbv m
RT: 4.884 min Scan# 1482
Delta R.T. -0.019 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20



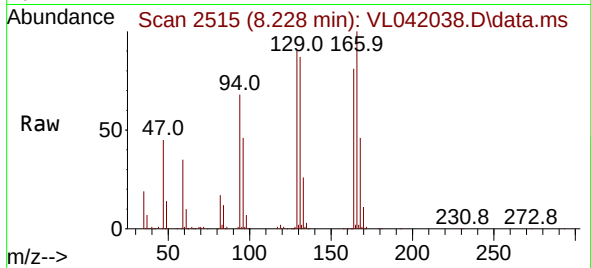
Tgt Ion: 69 Resp: 20559
Ion Ratio Lower Upper
69 100
41 0.0 114.9 172.3#
100 33.8 28.8 43.2





#52
Tetrachloroethene
Concen: 14.537 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. -0.016 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

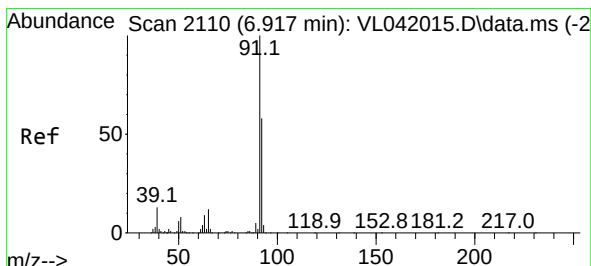
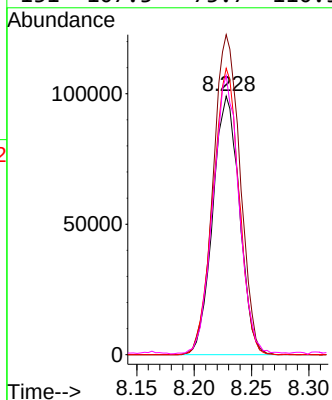
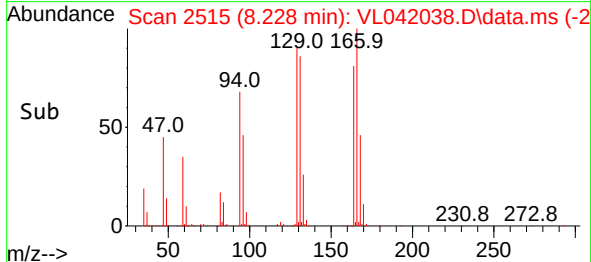
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion:164 Resp: 160070
Ion Ratio Lower Upper
164 100
166 123.7 102.2 153.2
129 110.8 82.2 123.4
131 107.3 73.7 110.5

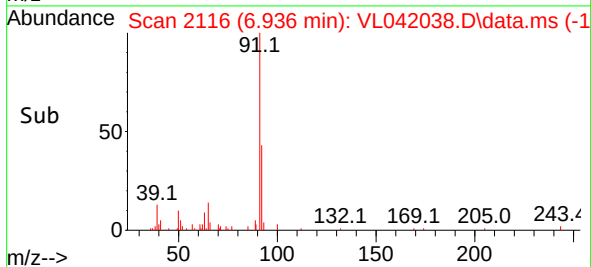
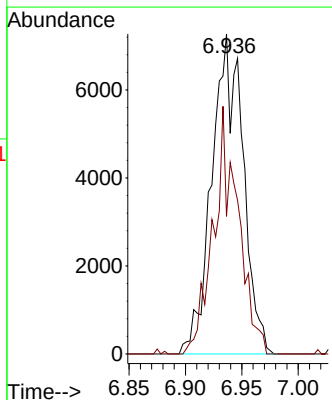
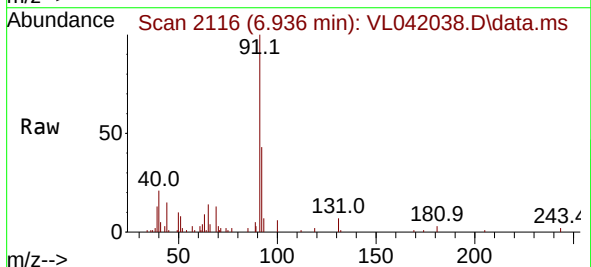
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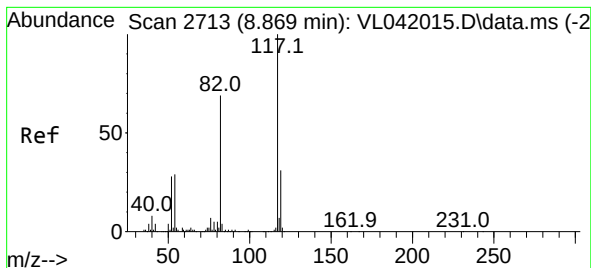
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#53
Toluene
Concen: 0.373 ppbv m
RT: 6.936 min Scan# 2116
Delta R.T. -0.019 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

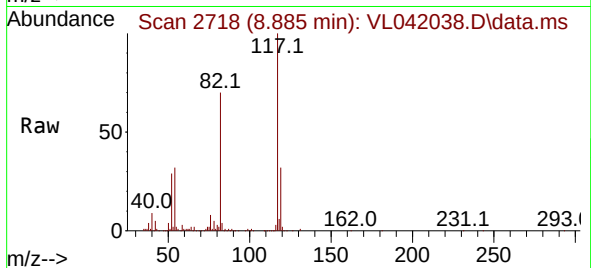
Tgt Ion: 91 Resp: 14022
Ion Ratio Lower Upper
91 100
92 60.9 47.5 71.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.013 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

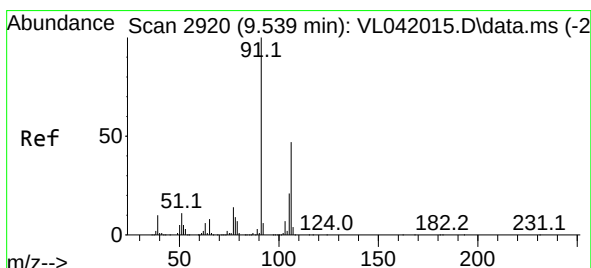
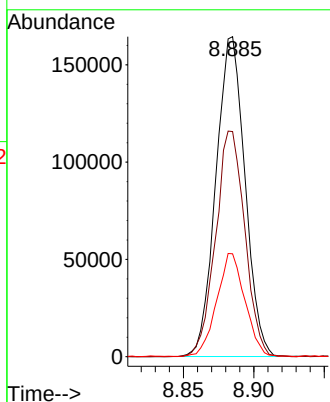
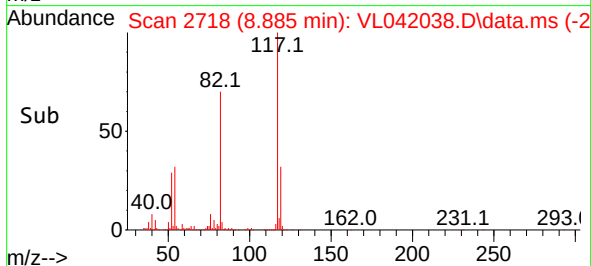
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



Tgt Ion: 117 Resp: 23648
Ion Ratio Lower Upper
117 100
82 71.0 55.7 83.5
119 31.7 25.2 37.8

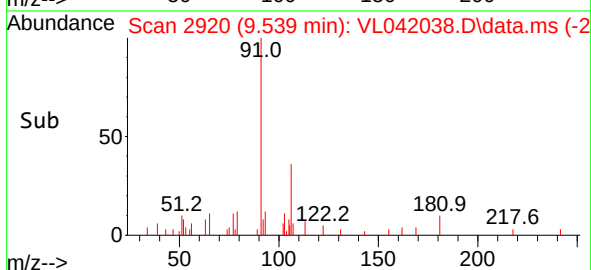
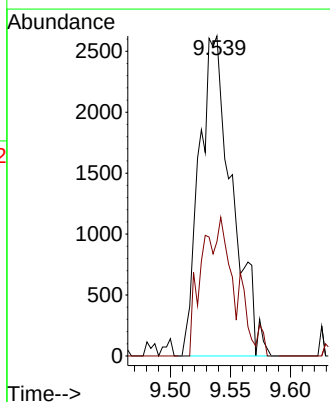
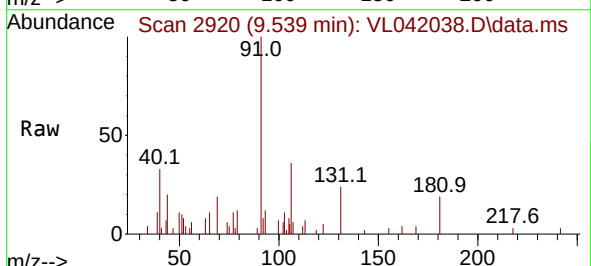
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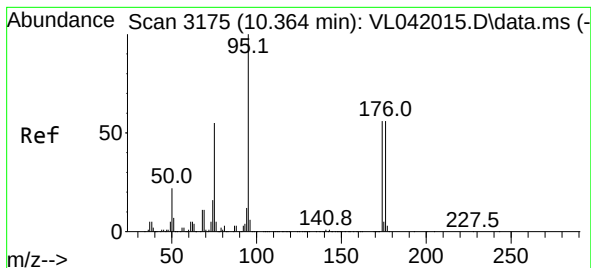
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#59
m/p-Xylene
Concen: 0.122 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.009 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

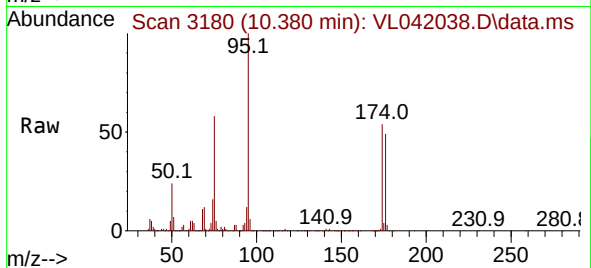
Tgt Ion: 91 Resp: 4987
Ion Ratio Lower Upper
91 100
106 44.8 35.8 53.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.138 ppbv
RT: 10.380 min Scan# 3175
Delta R.T. -0.009 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20

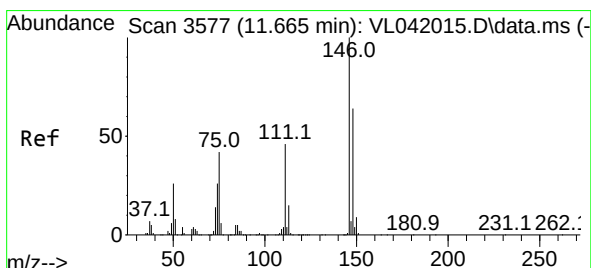
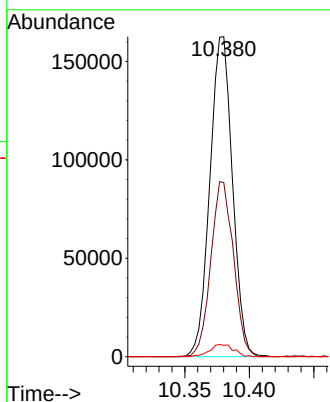
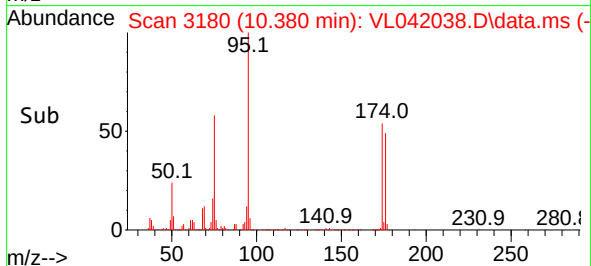
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP



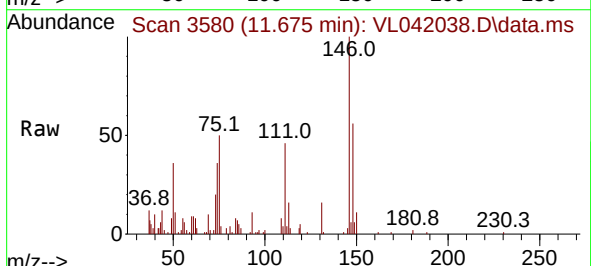
Tgt Ion: 95 Resp: 197760
Ion Ratio Lower Upper
95 100
174 54.9 46.7 70.1
175 4.0 3.7 5.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#76
1,4-Dichlorobenzene
Concen: 0.277 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.009 min
Lab File: VL042038.D
Acq: 21 Feb 2025 13:20



Tgt Ion:146 Resp: 6491
Ion Ratio Lower Upper
146 100
111 50.5 23.5 70.5
148 72.9 32.3 96.9

