

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022125\
 Data File : VL042037.D
 Acq On : 21 Feb 2025 12:47
 Operator : SY/MD
 Sample : Q1386-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A

Manual Integrations
 APPROVED

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

Quant Time: Feb 21 21:52:05 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)

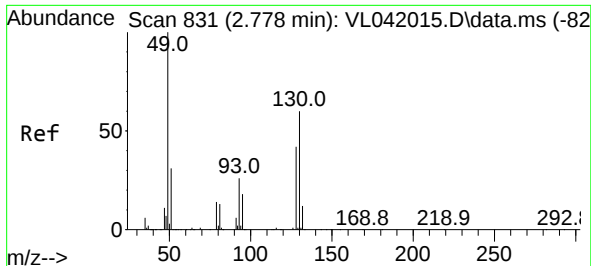
Internal Standards						
1) Bromochloromethane	2.784	49	89356	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.955	114	243432	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	217289	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	187999	10.489	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7690	0.500	ppbv	92
3) Chlorodifluoromethane	1.473	51	61725	3.630	ppbv #	90
4) Chloromethane	1.531	50	3340m	0.559	ppbv	
9) Propene	1.486	41	75262m	10.266	ppbv	
10) Heptane	4.972	43	3569m	0.175	ppbv	
11) Trichlorofluoromethane	1.874	101	6675m	0.431	ppbv	
13) Ethanol	1.719	45	162607	196.643	ppbv	77
15) Acetone	1.832	43	423547	28.717	ppbv	98
17) tert-Butyl alcohol	2.046	59	2141m	0.117	ppbv	
19) Isopropyl Alcohol	1.884	45	207336	25.070	ppbv #	83
20) Methylene Chloride	2.059	84	304608	54.864	ppbv	92
26) Hexane	2.823	57	241289	14.853	ppbv #	37
29) Chloroform	2.845	83	4852	0.206	ppbv	88
31) cis-1,2-Dichloroethene	2.716	61	3320	0.207	ppbv #	93
34) 2-Butanone	2.560	43	15472	0.739	ppbv	100
35) Carbon Tetrachloride	3.761	117	2279m	0.096	ppbv	
36) Benzene	3.654	78	6606	0.224	ppbv #	88
38) Trichloroethene	4.538	130	5432m	0.453	ppbv	
41) Tetrahydrofuran	3.062	42	6580m	0.550	ppbv	
43) Methyl Methacrylate	4.884	69	12799m	0.952	ppbv	
52) Tetrachloroethene	8.225	164	105923	10.299	ppbv	93
53) Toluene	6.927	91	10610m	0.302	ppbv	
59) m/p-Xylene	9.535	91	4032m	0.108	ppbv	
76) 1,4-Dichlorobenzene	11.672	146	4837	0.224	ppbv	95
79) Naphthalene	13.510	128	4810	0.119	ppbv #	91

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

Manual Integrations APPROVED

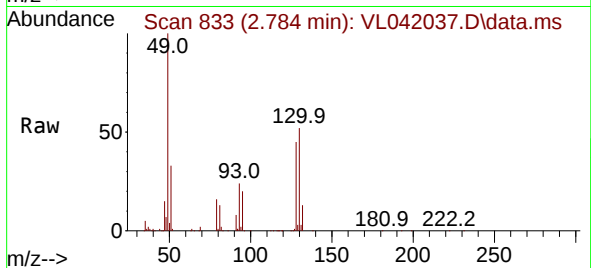
Quant Time: Feb 21 21:52:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.016 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

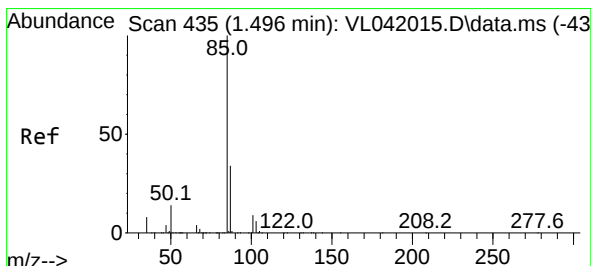
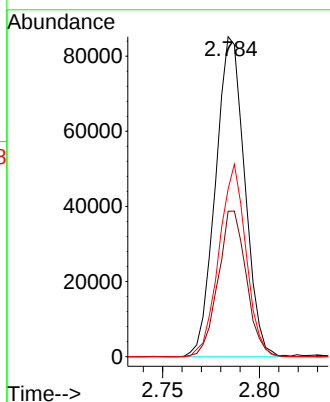
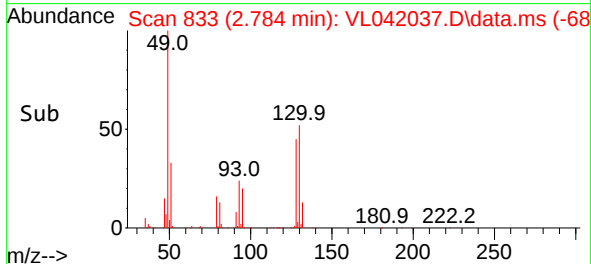
Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion: 49 Resp: 89350
Ion Ratio Lower Upper
49 100
128 43.9 22.7 68.0
130 55.6 29.9 89.8

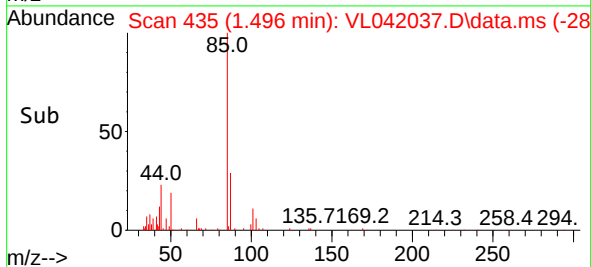
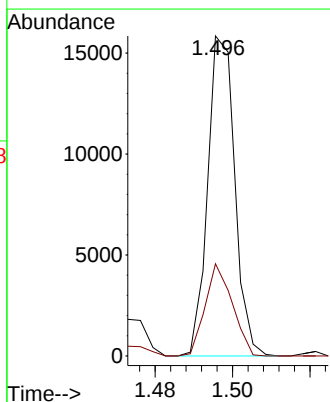
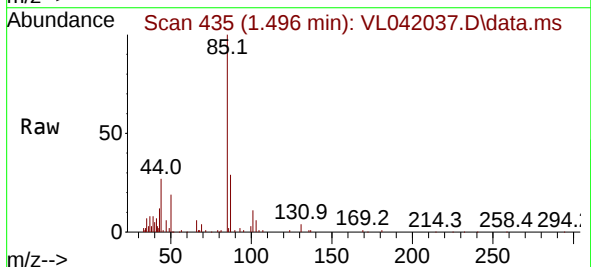
Manual Integrations
APPROVED

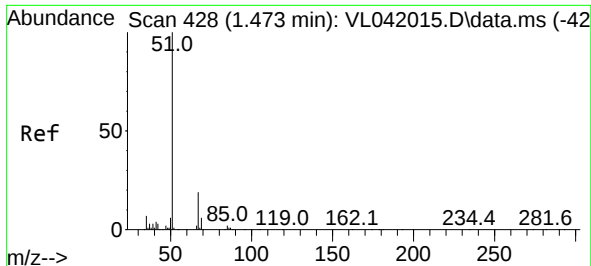
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#2
Dichlorodifluoromethane
Concen: 0.500 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

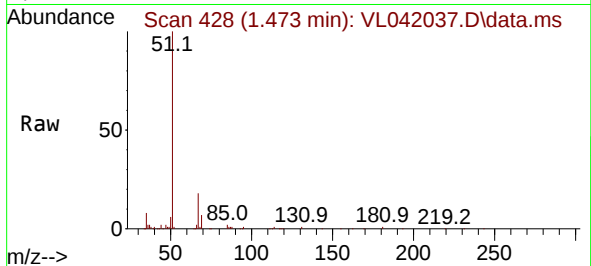
Tgt Ion: 85 Resp: 7690
Ion Ratio Lower Upper
85 100
87 28.8 26.9 40.3





#3
Chlorodifluoromethane
Concen: 3.630 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

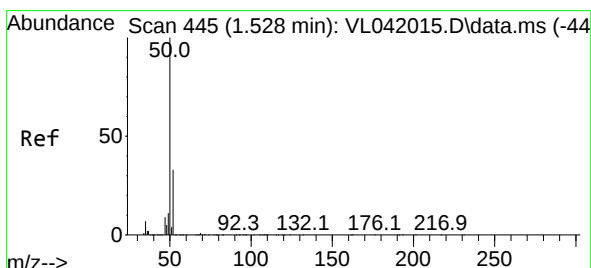
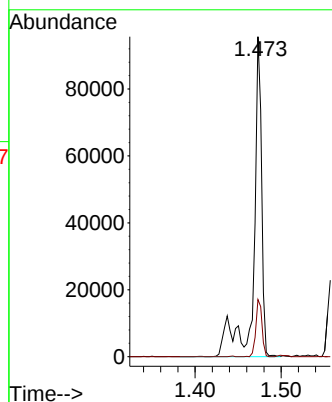
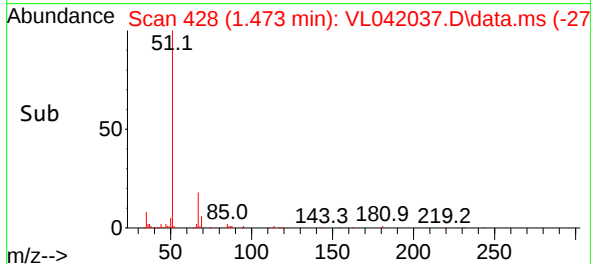
Instrument :
MSVOA_L
ClientSampleId :
IA1A



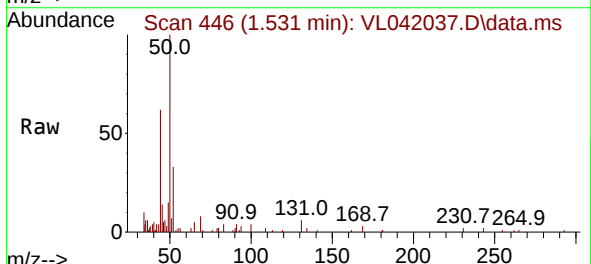
Tgt Ion: 51 Resp: 61725
Ion Ratio Lower Upper
51 100
67 14.3 15.0 22.6

Manual Integrations
APPROVED

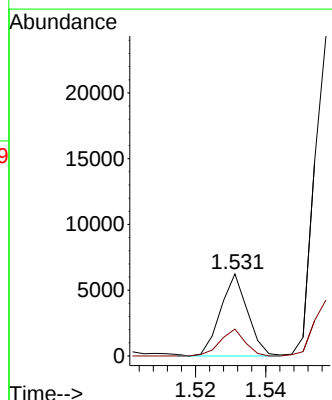
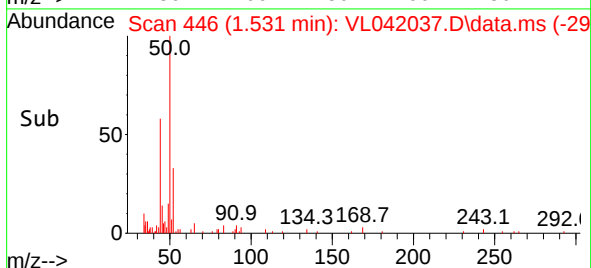
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

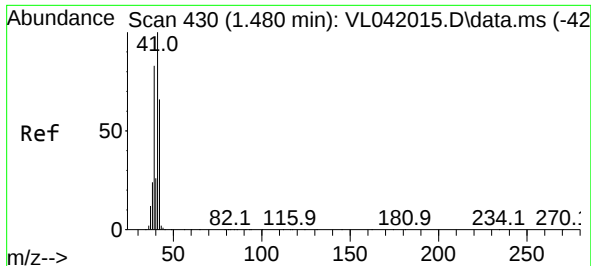


#4
Chloromethane
Concen: 0.559 ppbv m
RT: 1.531 min Scan# 446
Delta R.T. -0.006 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47



Tgt Ion: 50 Resp: 3340
Ion Ratio Lower Upper
50 100
52 32.8 26.2 39.2





#9

Propene

Concen: 10.266 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042037.D

Acq: 21 Feb 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tgt Ion: 41 Resp: 7526

Ion Ratio Lower Upper

41 100

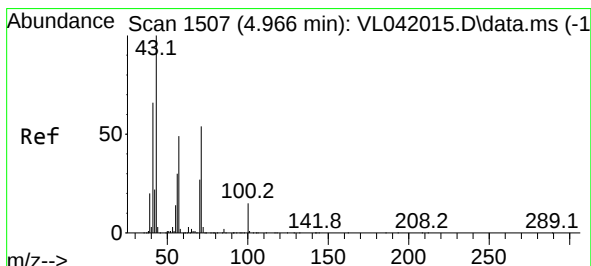
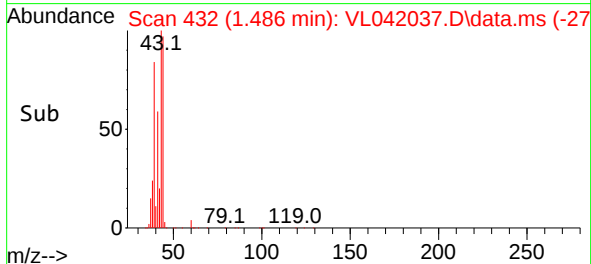
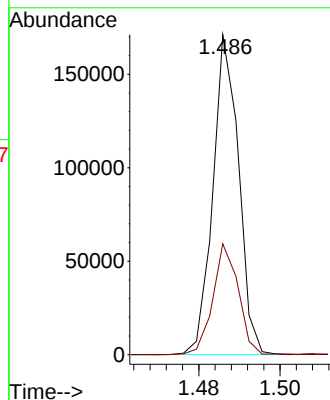
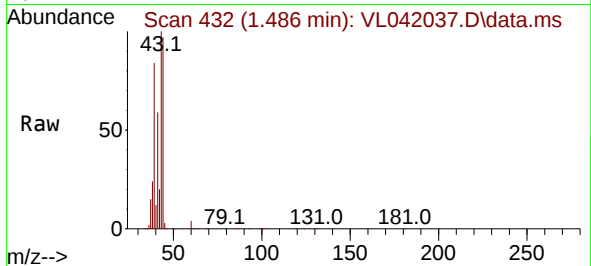
42 0.0 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#10

Heptane

Concen: 0.175 ppbv m

RT: 4.972 min Scan# 1509

Delta R.T. -0.032 min

Lab File: VL042037.D

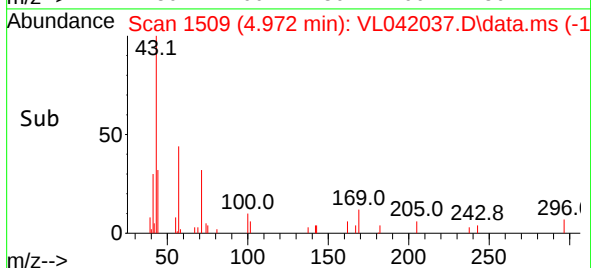
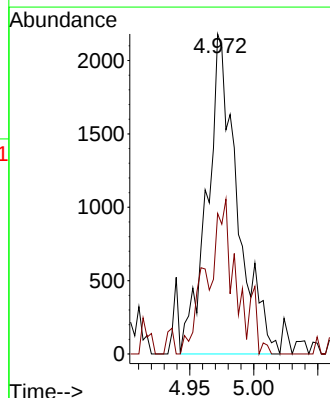
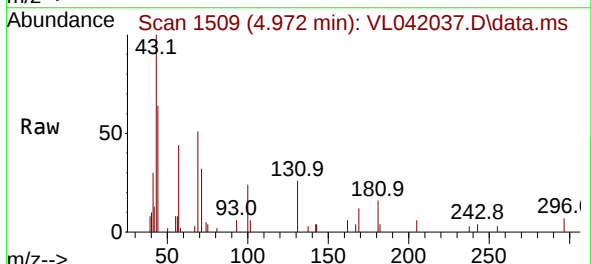
Acq: 21 Feb 2025 12:47

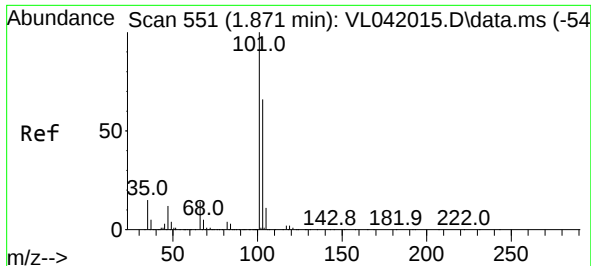
Tgt Ion: 43 Resp: 3569

Ion Ratio Lower Upper

43 100

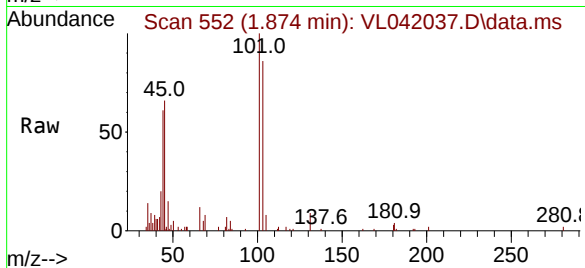
57 0.0 41.0 61.6





#11
Trichlorofluoromethane
Concen: 0.431 ppbv m
RT: 1.874 min Scan# 501
Delta R.T. -0.010 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

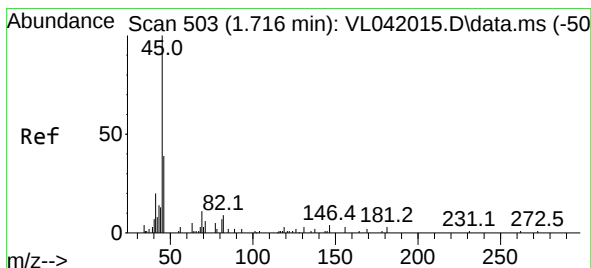
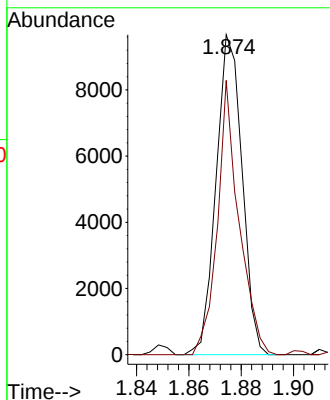
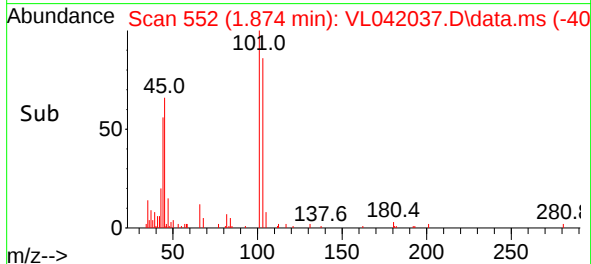
Instrument :
MSVOA_L
ClientSampleId :
IA1A



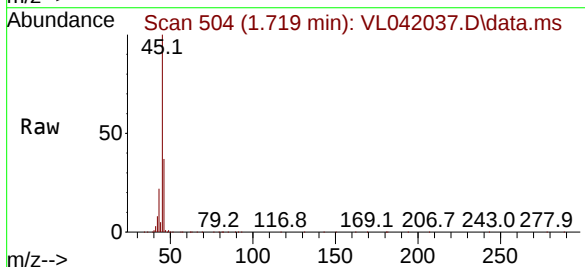
Tgt Ion:101 Resp: 6679
Ion Ratio Lower Upper
101 100
103 85.7 52.9 79.3

Manual Integrations
APPROVED

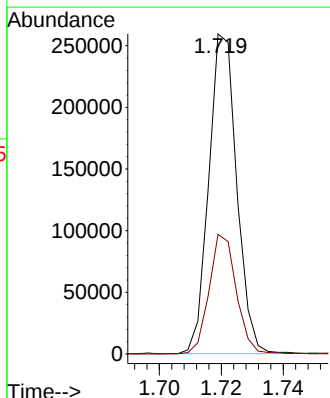
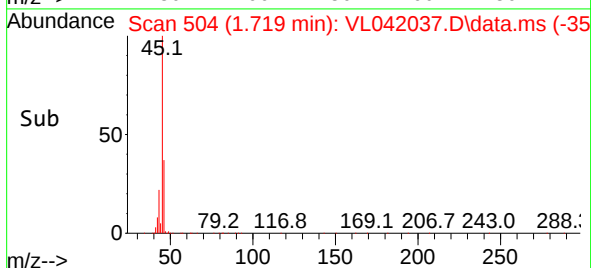
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

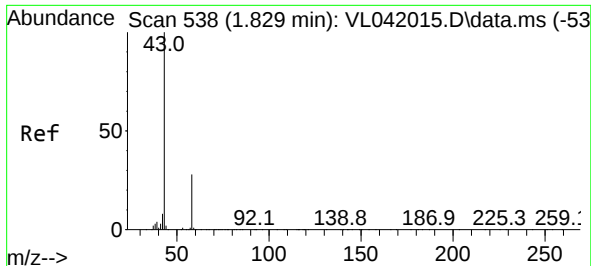


#13
Ethanol
Concen: 196.643 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.010 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47



Tgt Ion: 45 Resp: 162607
Ion Ratio Lower Upper
45 100
46 36.9 21.3 85.1





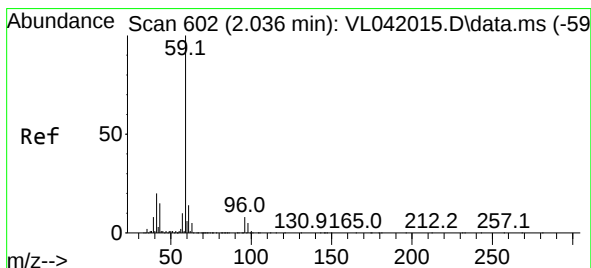
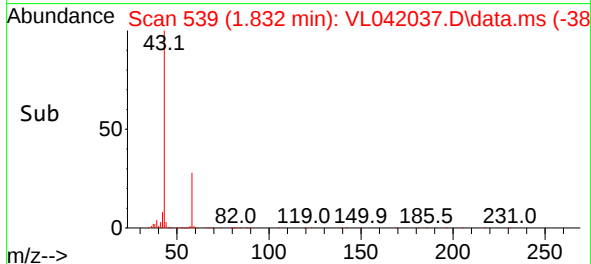
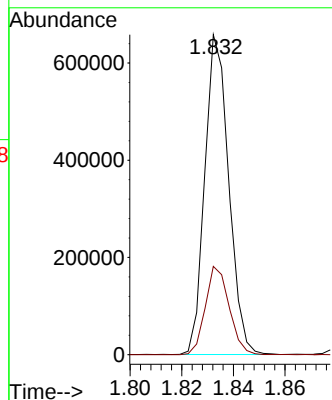
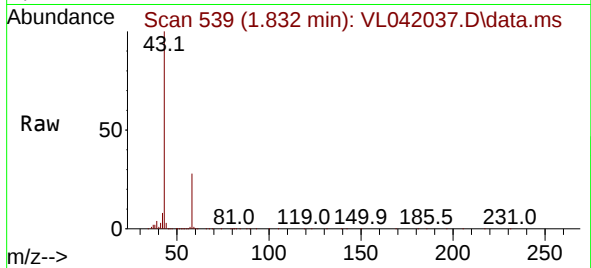
#15
Acetone
Concen: 28.717 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tgt Ion: 43 Resp: 42354
Ion Ratio Lower Upper
43 100
58 27.5 22.9 34.3

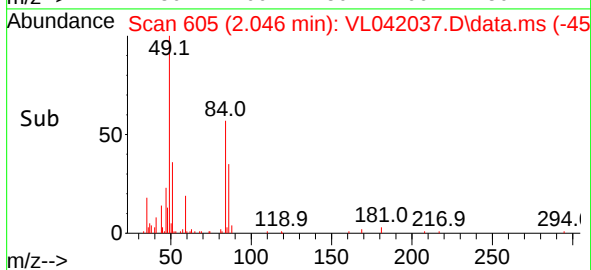
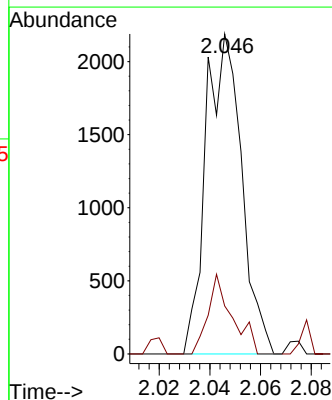
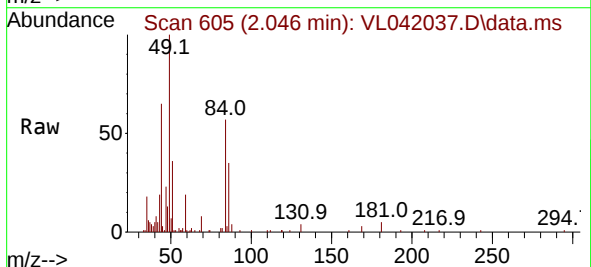
Manual Integrations
APPROVED

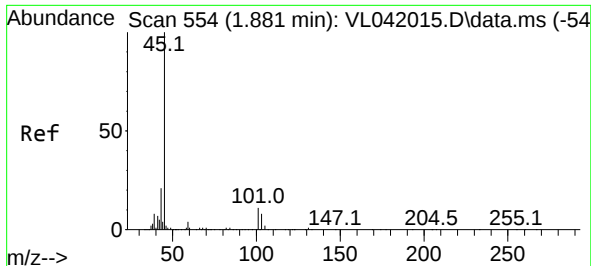
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#17
tert-Butyl alcohol
Concen: 0.117 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. -0.003 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

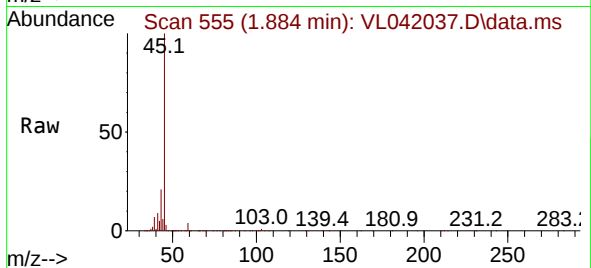
Tgt Ion: 59 Resp: 2141
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#





#19
Isopropyl Alcohol
Concen: 25.070 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.010 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

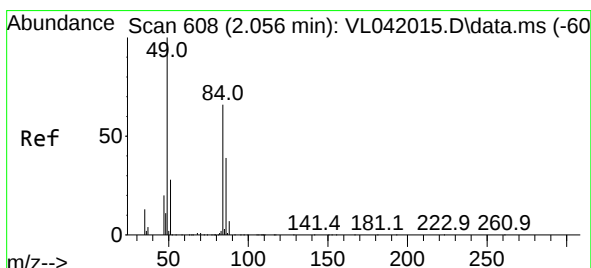
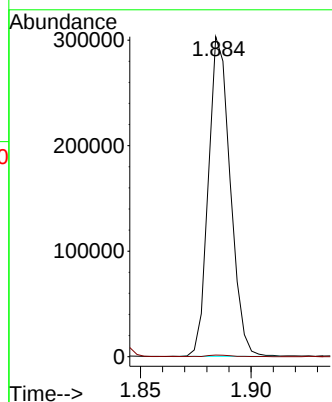
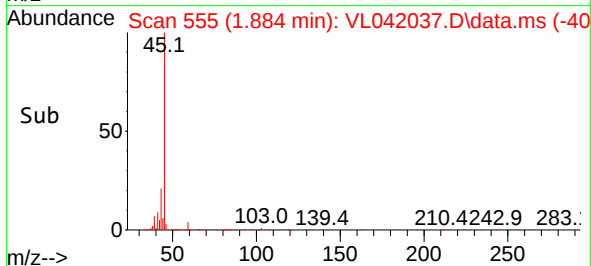
Instrument :
MSVOA_L
ClientSampleId :
IA1A



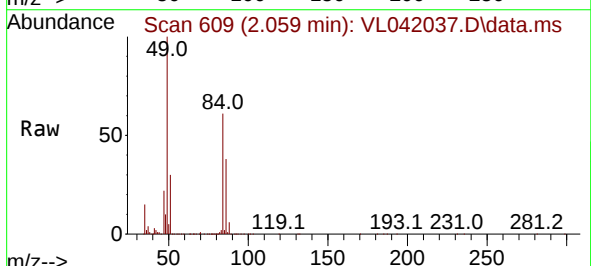
Tgt Ion: 45 Resp: 207330
Ion Ratio Lower Upper
45 100
58 56.2 36.2 54.4

Manual Integrations
APPROVED

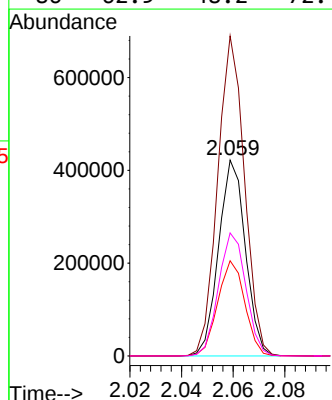
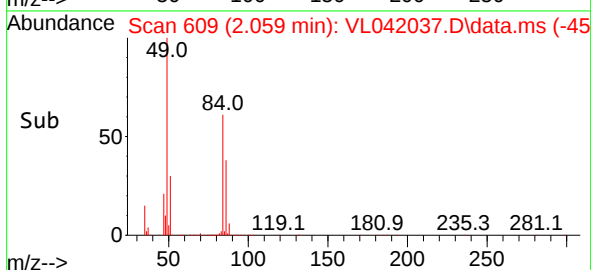
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

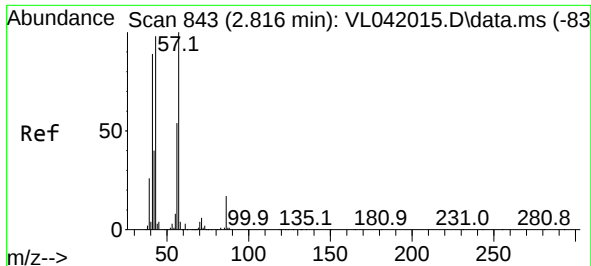


#20
Methylene Chloride
Concen: 54.864 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47



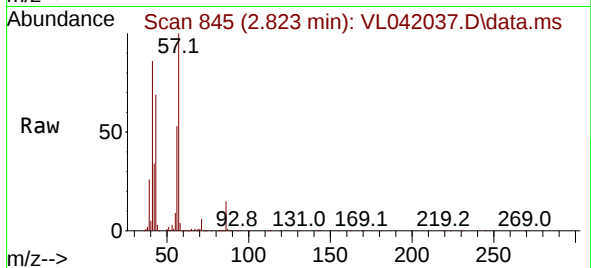
Tgt Ion: 84 Resp: 304608
Ion Ratio Lower Upper
84 100
49 163.5 121.0 181.4
51 48.5 35.1 52.7
86 62.9 48.2 72.4





#26
Hexane
Concen: 14.853 ppbv
RT: 2.823 min Scan# 843
Delta R.T. -0.016 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

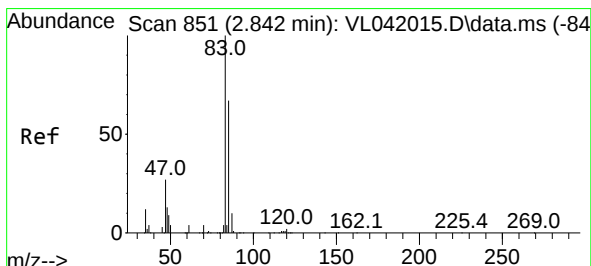
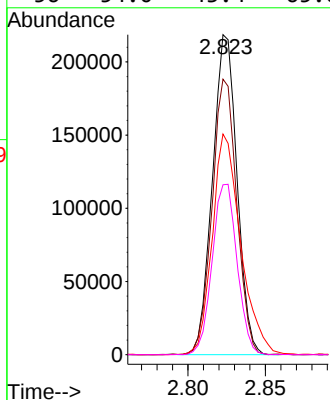
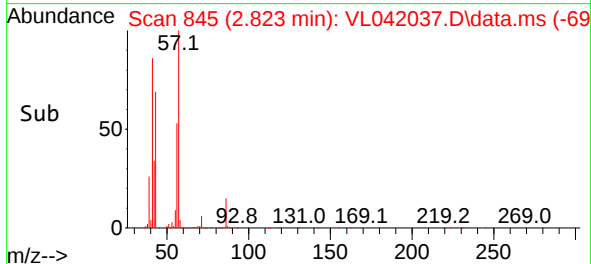
Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion: 57 Resp: 241289
Ion Ratio Lower Upper
57 100
41 86.6 73.2 109.8
43 79.9 200.8 301.2
56 54.0 43.4 65.0

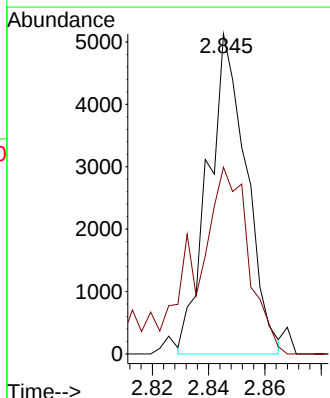
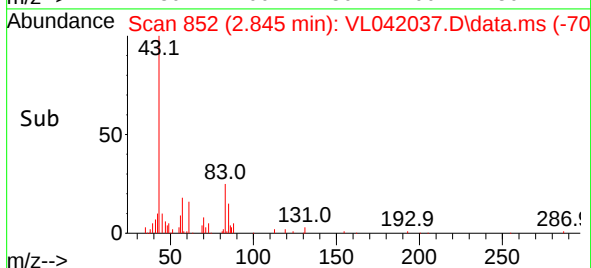
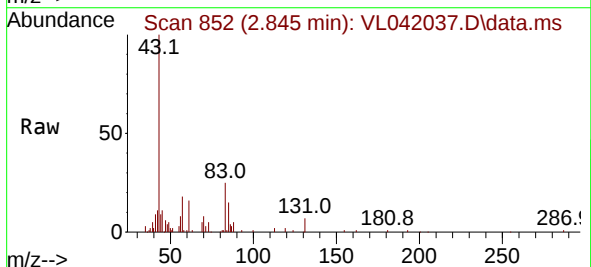
Manual Integrations
APPROVED

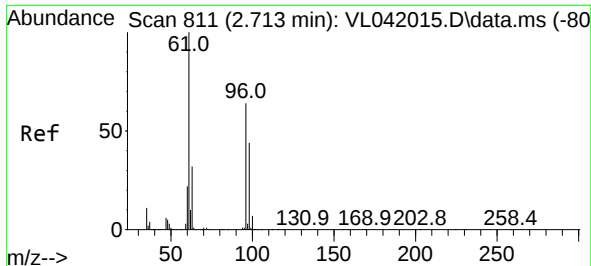
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#29
Chloroform
Concen: 0.206 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.016 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

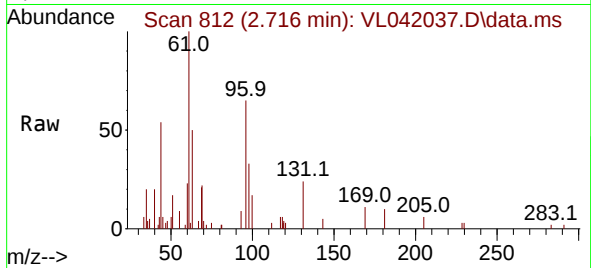
Tgt Ion: 83 Resp: 4852
Ion Ratio Lower Upper
83 100
85 57.2 53.8 80.6





#31
 cis-1,2-Dichloroethene
 Concen: 0.207 ppbv
 RT: 2.716 min Scan# 811
 Delta R.T. -0.016 min
 Lab File: VL042037.D
 Acq: 21 Feb 2025 12:47

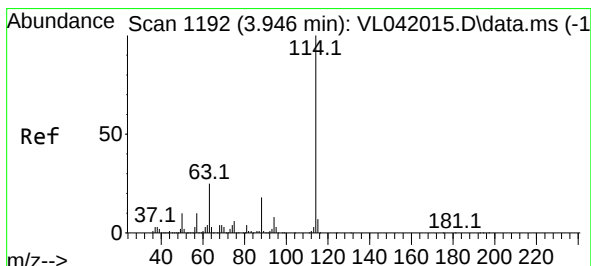
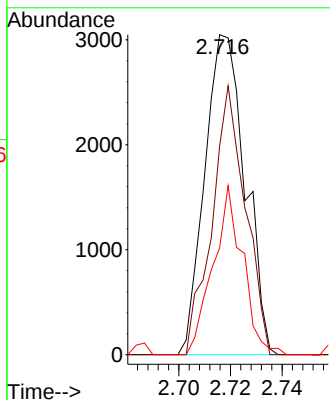
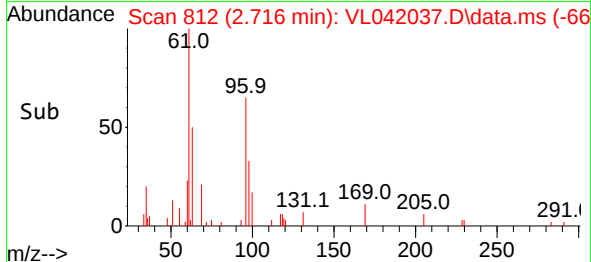
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A



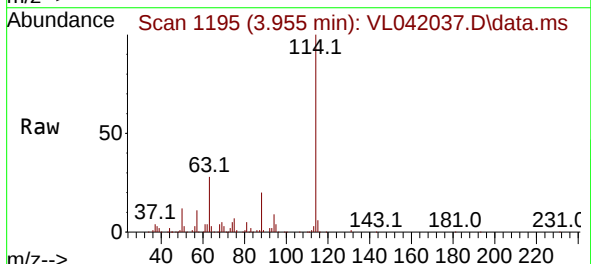
Tgt Ion: 61 Resp: 3320
 Ion Ratio Lower Upper
 61 100
 96 65.2 51.6 77.4
 98 33.4 34.8 52.2

Manual Integrations
 APPROVED

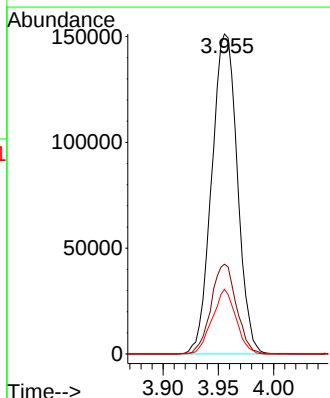
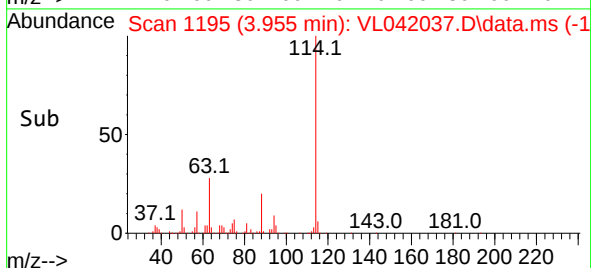
Reviewed By :Semsettin Yesilyurt 02/24/2025
 Supervised By :Mahesh Dadoda 02/24/2025

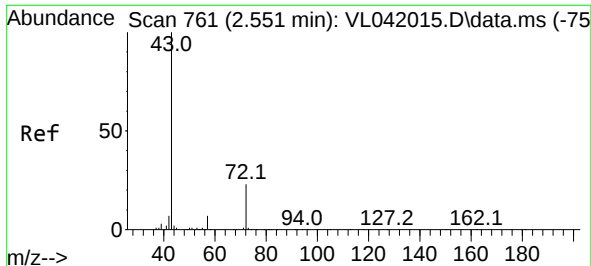


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.022 min
 Lab File: VL042037.D
 Acq: 21 Feb 2025 12:47



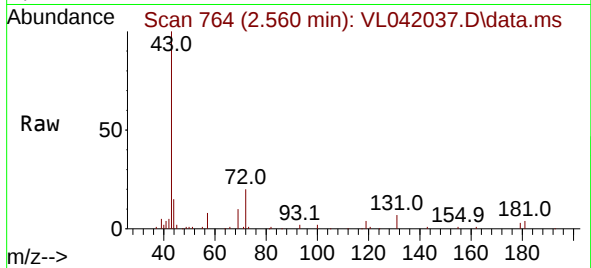
Tgt Ion:114 Resp: 243432
 Ion Ratio Lower Upper
 114 100
 63 27.8 20.2 30.2
 88 18.7 14.4 21.6





#34
2-Butanone
Concen: 0.739 ppbv
RT: 2.560 min Scan# 764
Delta R.T. -0.010 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

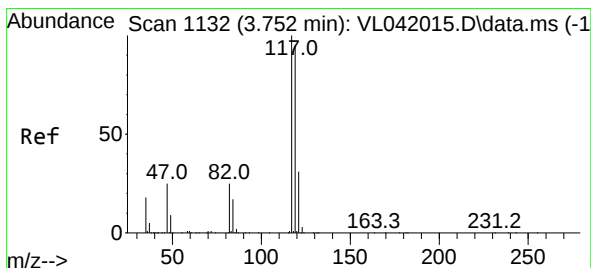
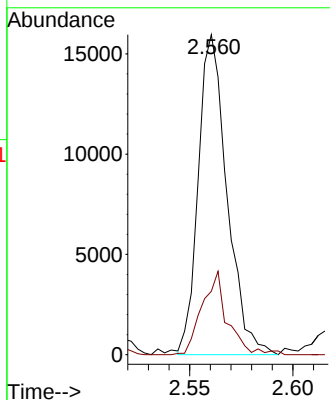
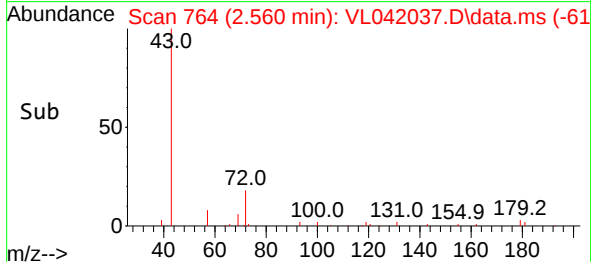
Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion: 43 Resp: 15472
Ion Ratio Lower Upper
43 100
72 23.0 18.3 27.5

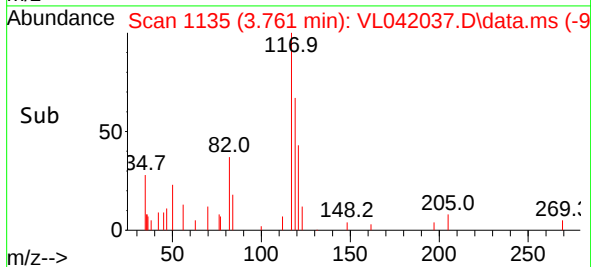
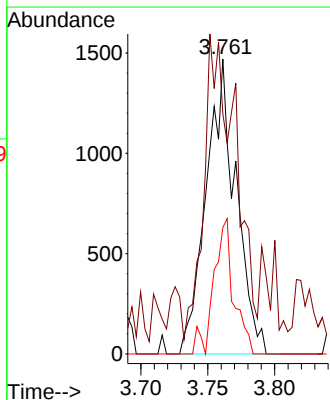
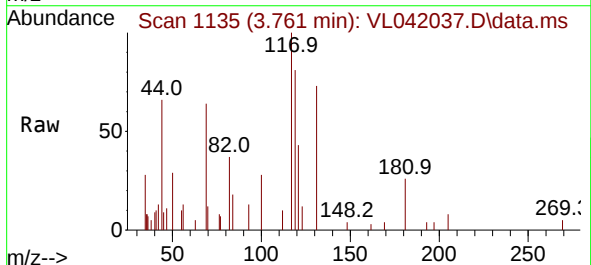
Manual Integrations
APPROVED

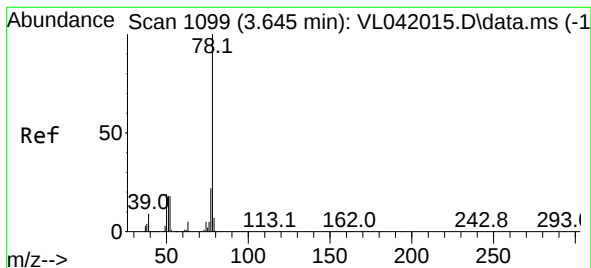
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#35
Carbon Tetrachloride
Concen: 0.096 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.019 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

Tgt Ion:117 Resp: 2279
Ion Ratio Lower Upper
117 100
119 81.4 75.8 113.6
121 42.9 24.6 36.8#





#36

Benzene

Concen: 0.224 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. -0.019 min

Lab File: VL042037.D

Acq: 21 Feb 2025 12:47

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tgt Ion: 78 Resp: 6600

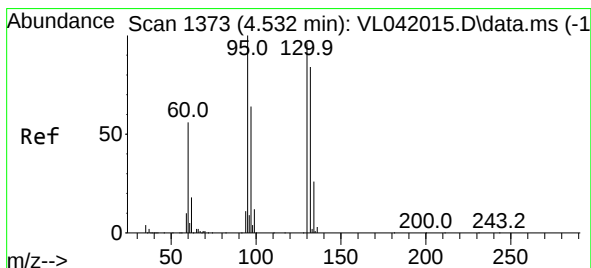
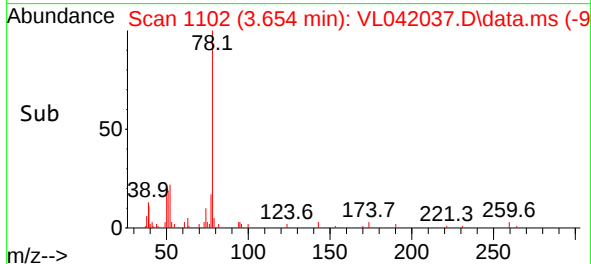
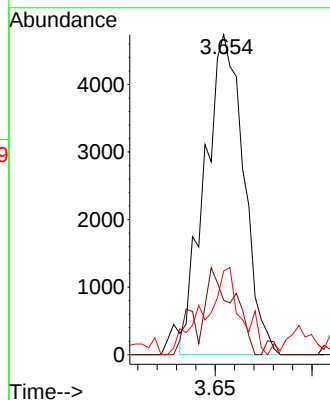
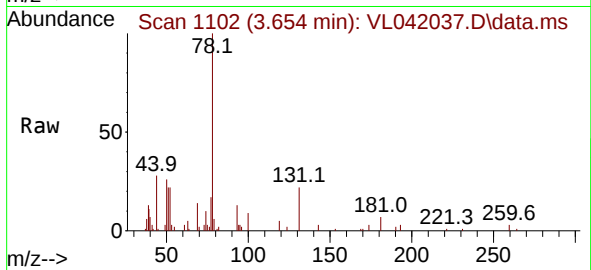
Ion	Ratio	Lower	Upper
78	100		
77	17.0	18.0	27.0
50	25.0	15.2	22.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#38

Trichloroethene

Concen: 0.453 ppbv m

RT: 4.538 min Scan# 1375

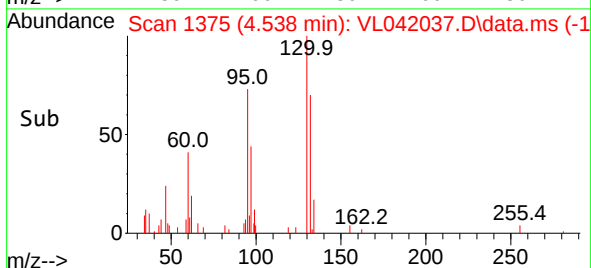
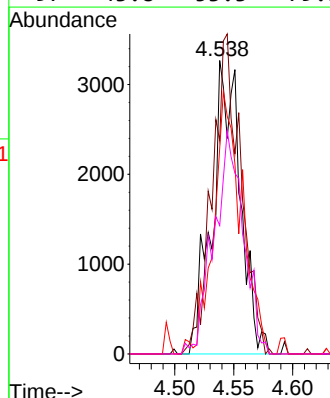
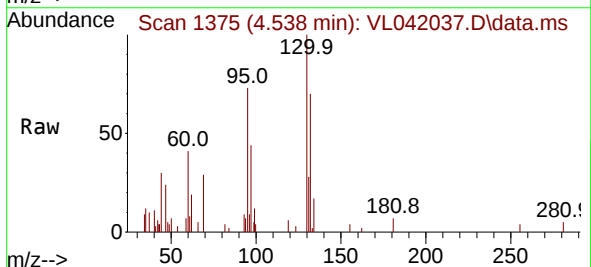
Delta R.T. -0.029 min

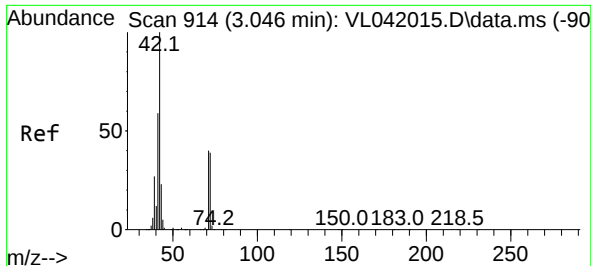
Lab File: VL042037.D

Acq: 21 Feb 2025 12:47

Tgt Ion:130 Resp: 5432

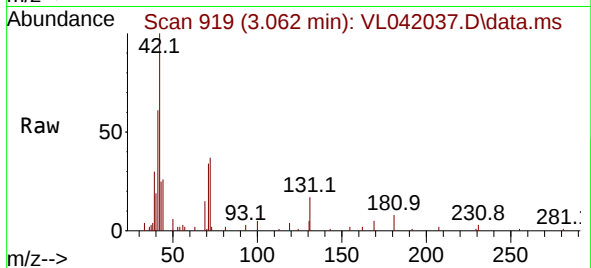
Ion	Ratio	Lower	Upper
130	100		
95	72.6	82.8	124.2
132	70.2	70.0	105.0
97	43.8	53.3	79.9





#41
Tetrahydrofuran
Concen: 0.550 ppbv m
RT: 3.062 min Scan# 914
Delta R.T. -0.006 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

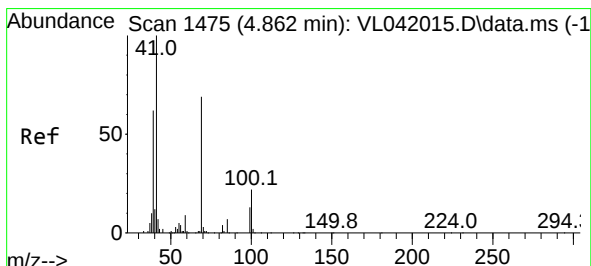
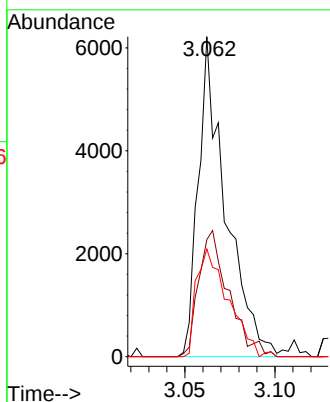
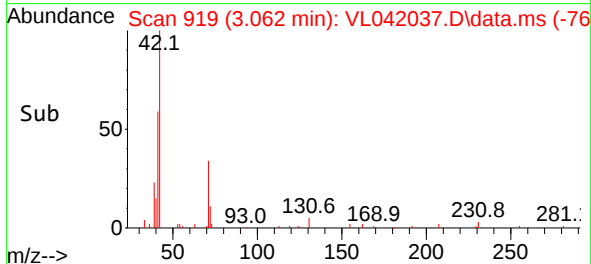
Instrument :
MSVOA_L
ClientSampleId :
IA1A



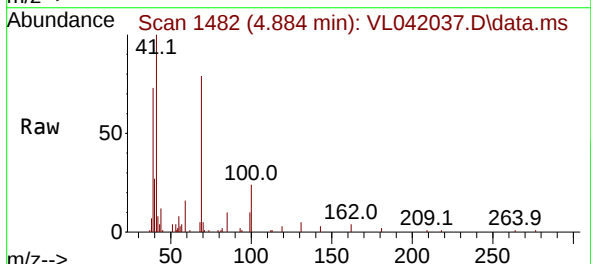
Tgt Ion: 42 Resp: 6580
Ion Ratio Lower Upper
42 100
72 43.2 32.3 48.5
71 39.2 30.9 46.3

Manual Integrations
APPROVED

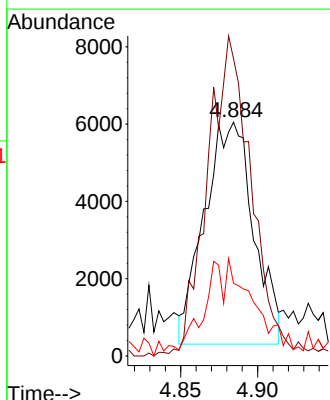
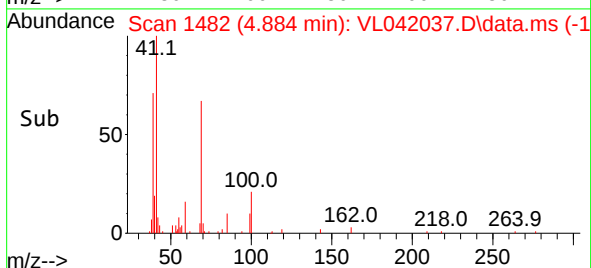
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

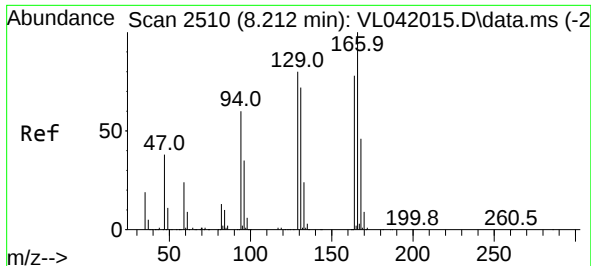


#43
Methyl Methacrylate
Concen: 0.952 ppbv m
RT: 4.884 min Scan# 1482
Delta R.T. -0.019 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47



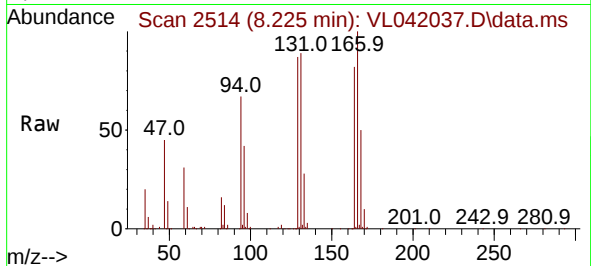
Tgt Ion: 69 Resp: 12799
Ion Ratio Lower Upper
69 100
41 0.0 114.9 172.3#
100 0.0 28.8 43.2#





#52
Tetrachloroethene
Concen: 10.299 ppbv
RT: 8.225 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

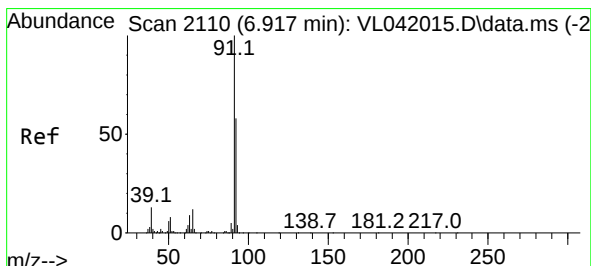
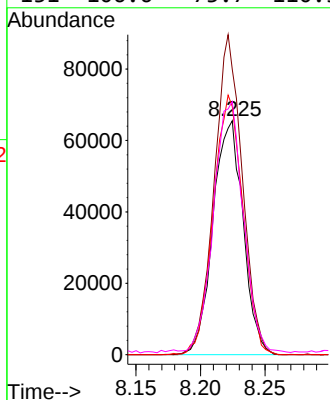
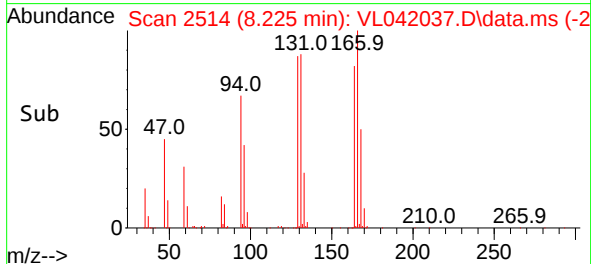
Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion:164 Resp: 10592
Ion Ratio Lower Upper
164 100
166 121.8 102.2 153.2
129 106.1 82.2 123.4
131 106.6 73.7 110.5

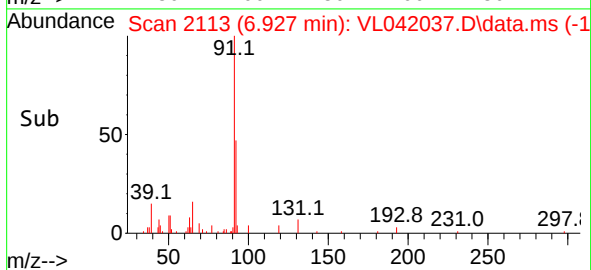
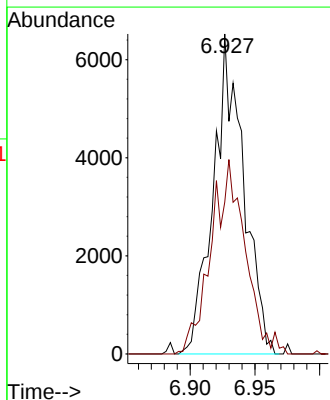
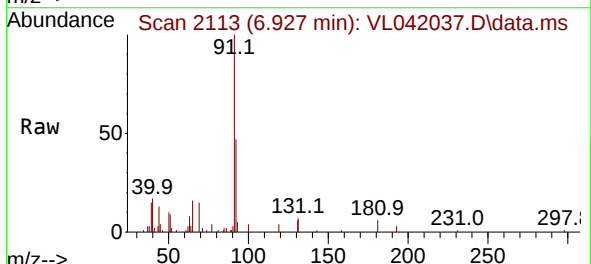
Manual Integrations
APPROVED

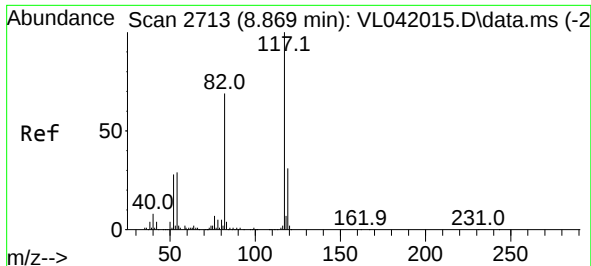
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#53
Toluene
Concen: 0.302 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.029 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

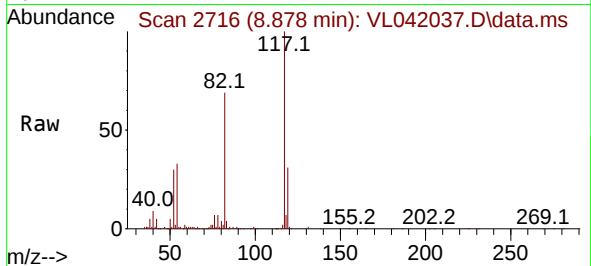
Tgt Ion: 91 Resp: 10610
Ion Ratio Lower Upper
91 100
92 0.0 47.5 71.3#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21728
Delta R.T. -0.019 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

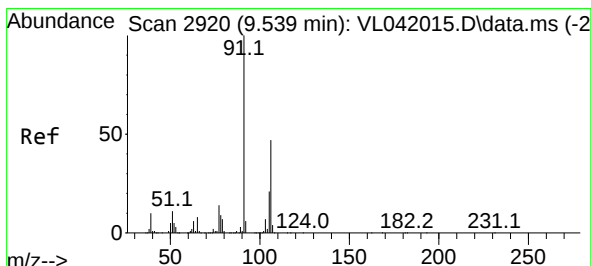
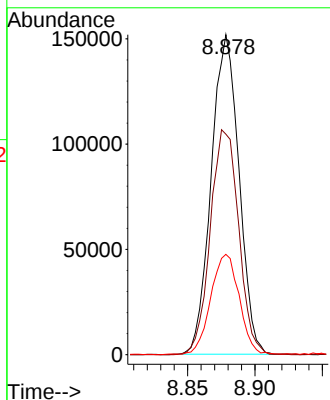
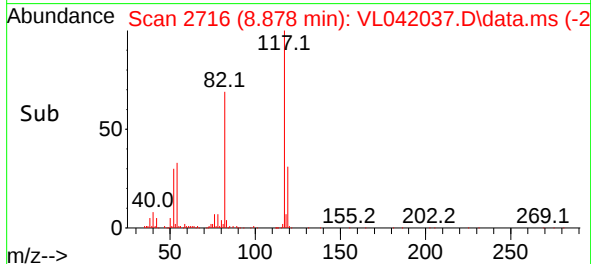
Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion: 117 Resp: 21728
Ion Ratio Lower Upper
117 100
82 72.1 55.7 83.5
119 32.6 25.2 37.8

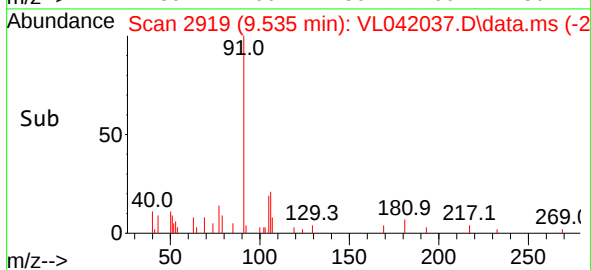
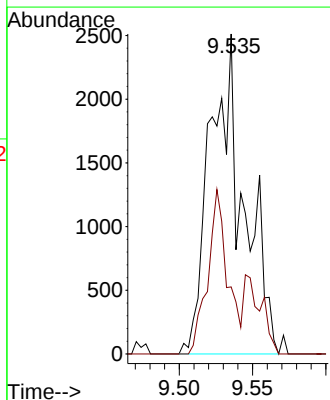
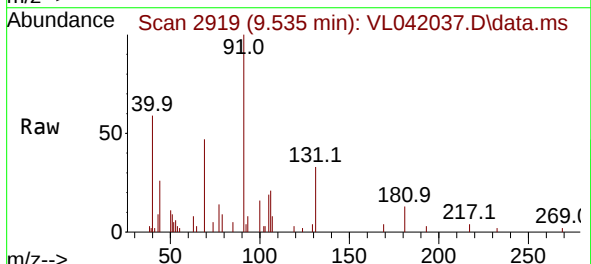
Manual Integrations
APPROVED

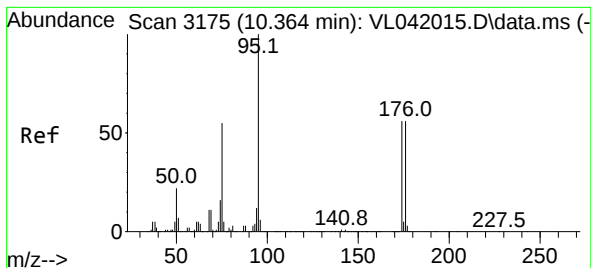
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#59
m/p-Xylene
Concen: 0.108 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

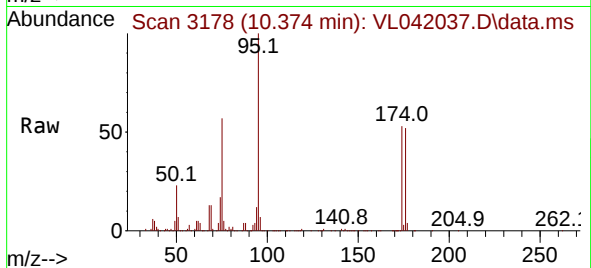
Tgt Ion: 91 Resp: 4032
Ion Ratio Lower Upper
91 100
106 42.7 35.8 53.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.489 ppbv
RT: 10.374 min Scan# 3175
Delta R.T. -0.016 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

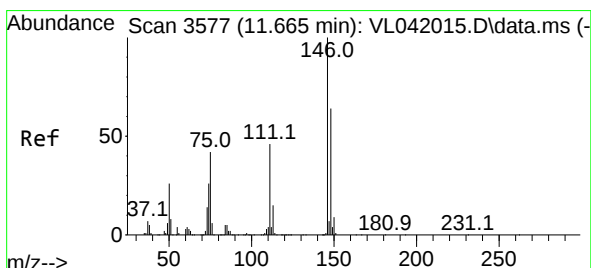
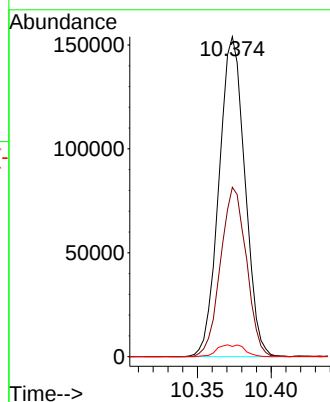
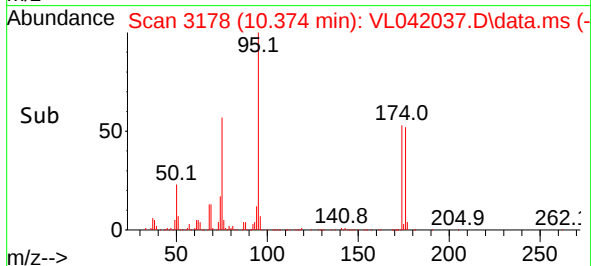
Instrument :
MSVOA_L
ClientSampleId :
IA1A



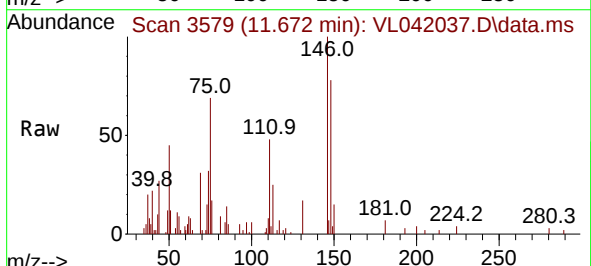
Tgt Ion: 95 Resp: 187999
Ion Ratio Lower Upper
95 100
174 52.9 46.7 70.1
175 4.0 3.7 5.5

Manual Integrations
APPROVED

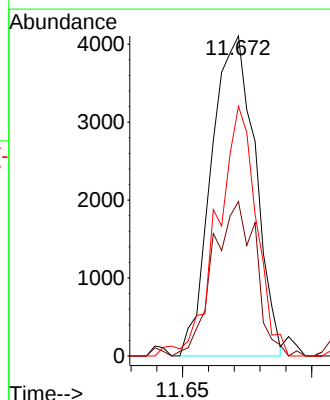
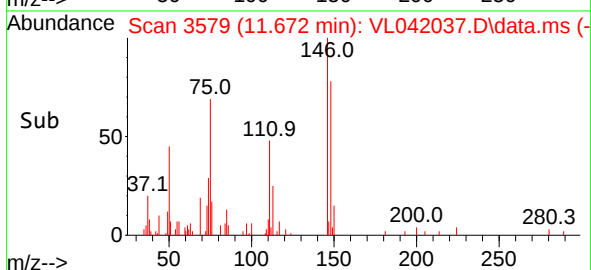
Reviewed By :Semsettin Yesilyurt 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

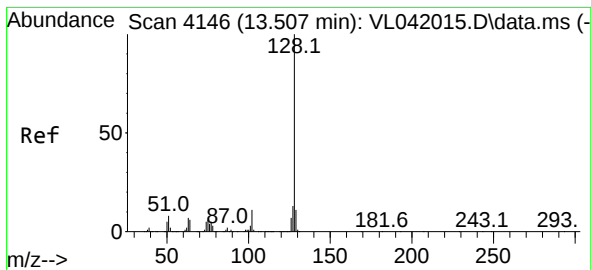


#76
1,4-Dichlorobenzene
Concen: 0.224 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. -0.013 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47



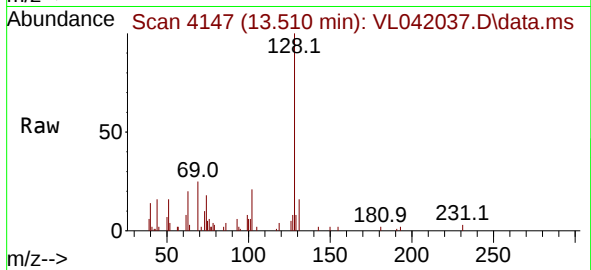
Tgt Ion:146 Resp: 4837
Ion Ratio Lower Upper
146 100
111 49.6 23.5 70.5
148 69.7 32.3 96.9





#79
Naphthalene
Concen: 0.119 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.016 min
Lab File: VL042037.D
Acq: 21 Feb 2025 12:47

Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion:128 Resp: 4810

Ion	Ratio	Lower	Upper
128	100		
127	8.2	10.2	15.2
129	8.3	8.6	13.0

Manual Integrations
APPROVED

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

