

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041215.D
 Acq On : 6 May 2024 13:01
 Operator : SY/MD
 Sample : P2334-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-03-IA02-20240425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024
 Supervised By :Mahesh Dadoda 05/07/2024

Quant Time: May 07 05:23:15 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Tue May 07 05:19:44 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	792590	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2107991	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	1893755	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1416959	9.911	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	40333	0.376	ppbv	96
4) Chloromethane	2.819	50	6797	0.144	ppbv #	84
9) Propene	2.706	41	13671m	0.290	ppbv	
11) Trichlorofluoromethane	3.568	101	28833	0.265	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.066	101	9528m	0.118	ppbv	
13) Ethanol	3.250	45	100754	9.541	ppbv	87
15) Acetone	3.475	43	458829	4.905	ppbv	99
19) Isopropyl Alcohol	3.591	45	48316m	0.787	ppbv	
20) Methylene Chloride	3.935	84	525515	16.156	ppbv	97
26) Hexane	5.211	57	687723	8.254	ppbv #	42
32) 1,1,1-Trichloroethane	6.002	97	5316m	0.046	ppbv	
34) 2-Butanone	4.796	43	27121	0.253	ppbv	94
35) Carbon Tetrachloride	6.491	117	38397	0.325	ppbv	99
36) Benzene	6.372	78	11904m	0.067	ppbv	
38) Trichloroethene	7.288	130	958585	14.541	ppbv	98
50) 4-Methyl-2-Pentanone	8.208	43	21261m	0.110	ppbv	
52) Tetrachloroethene	10.610	164	66252m	1.066	ppbv	
53) Toluene	9.221	91	102394	0.499	ppbv	99
58) Ethyl Benzene	12.092	91	18236m	0.070	ppbv	
59) m/p-Xylene	12.336	91	37936m	0.174	ppbv	

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

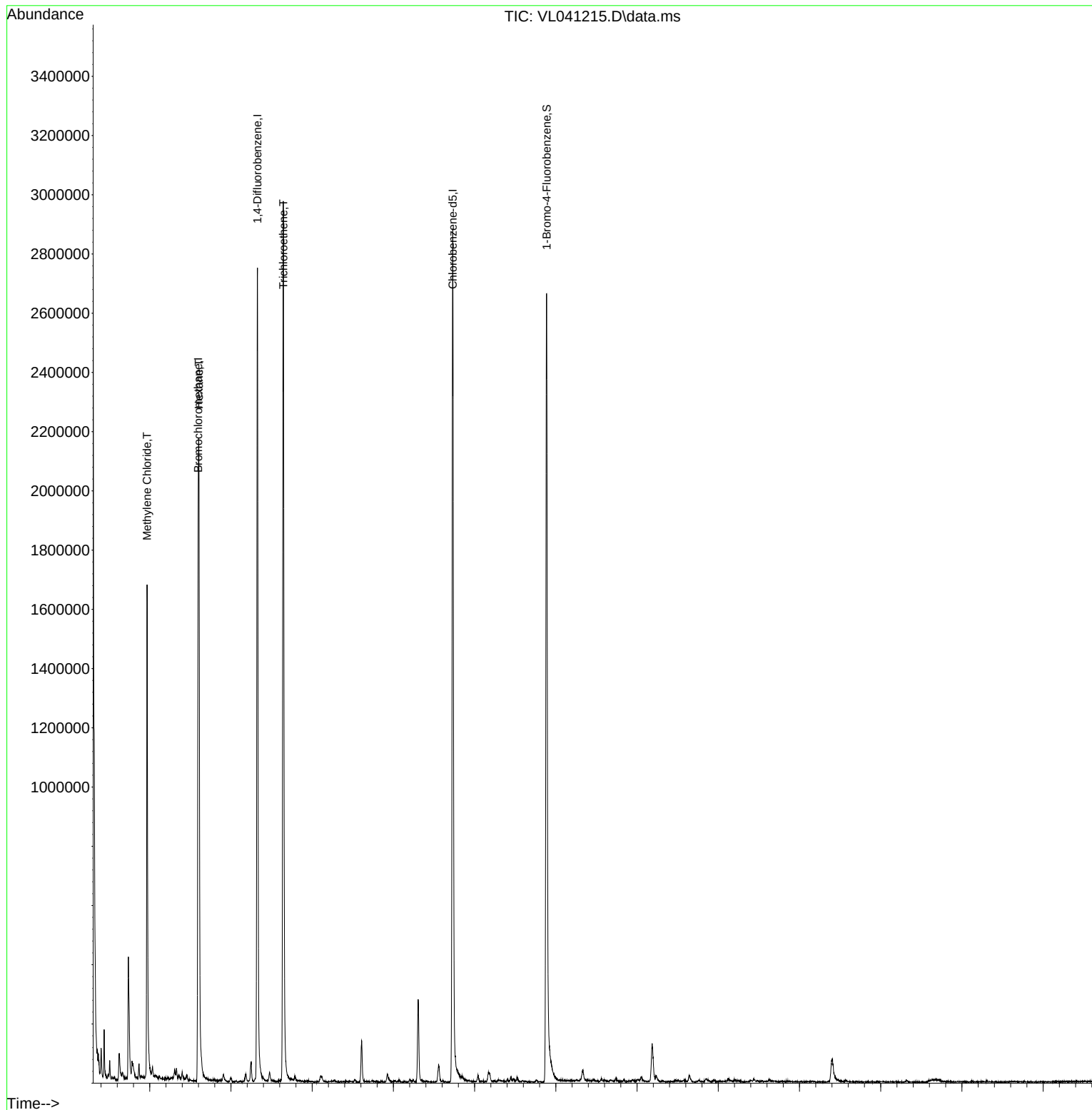
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
Data File : VL041215.D
Acq On : 6 May 2024 13:01
Operator : SY/MD
Sample : P2334-10
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

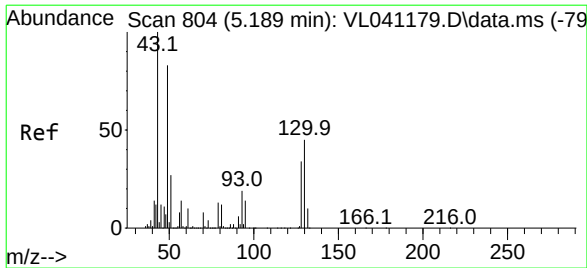
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2024
Supervised By : Mahesh Dadoda 05/07/2024

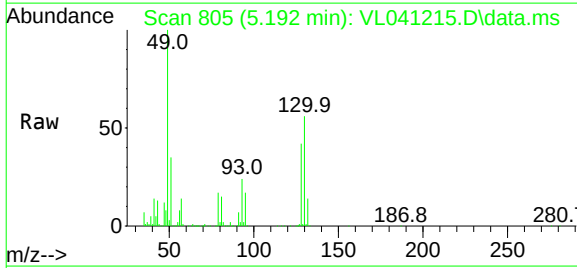
Quant Time: May 07 05:23:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 07 05:19:44 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

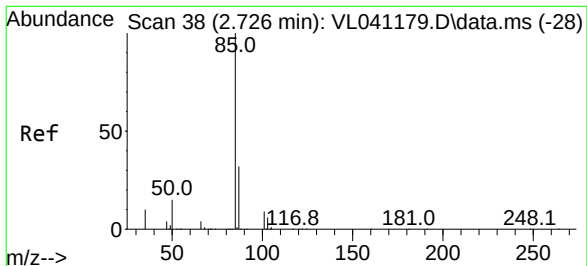
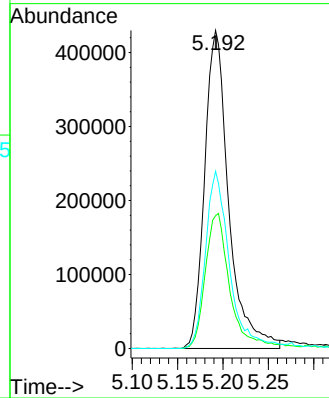
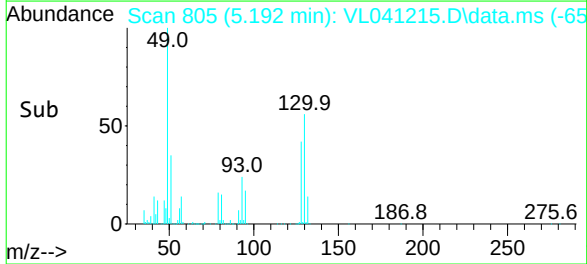
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425



Tgt Ion: 49 Resp: 792596
Ion Ratio Lower Upper
49 100
128 43.7 21.5 64.5
130 57.6 27.2 81.6

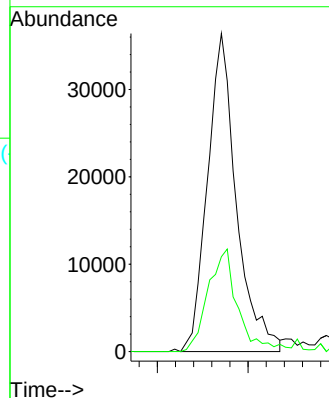
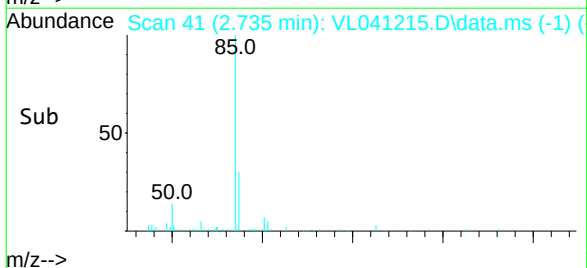
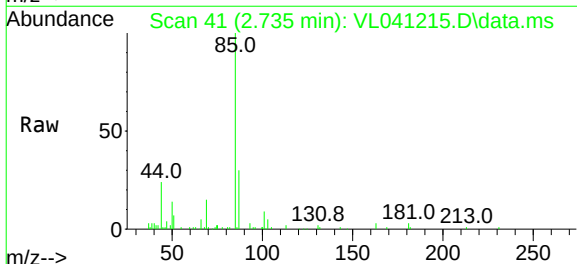
Manual Integrations
APPROVED

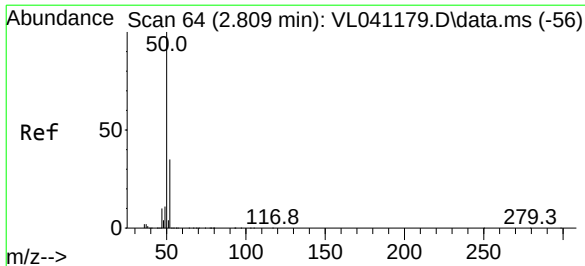
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#2
Dichlorodifluoromethane
Concen: 0.376 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

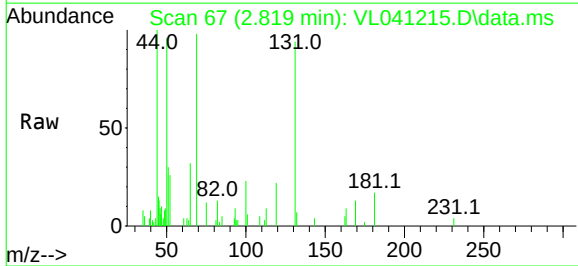
Tgt Ion: 85 Resp: 40333
Ion Ratio Lower Upper
85 100
87 29.8 25.7 38.5





#4
Chloromethane
Concen: 0.144 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

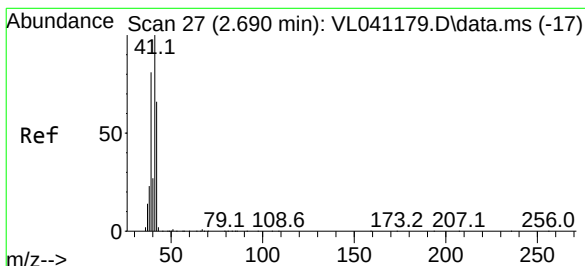
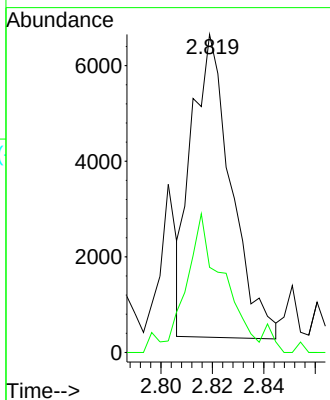
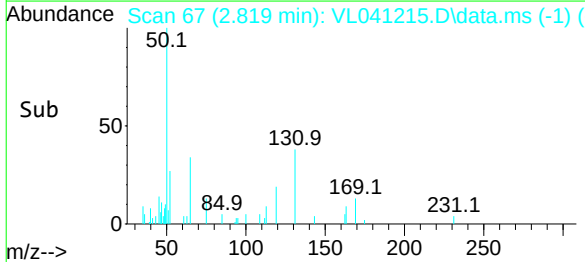
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425



Tgt Ion: 50 Resp: 6797
Ion Ratio Lower Upper
50 100
52 25.8 28.3 42.5#

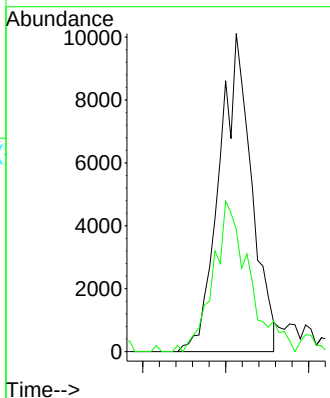
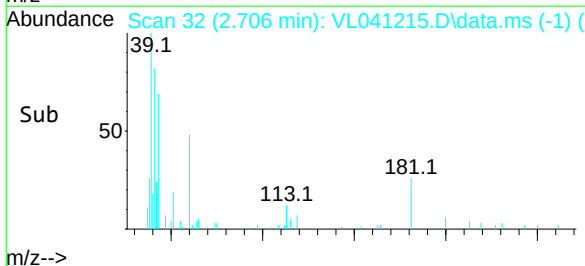
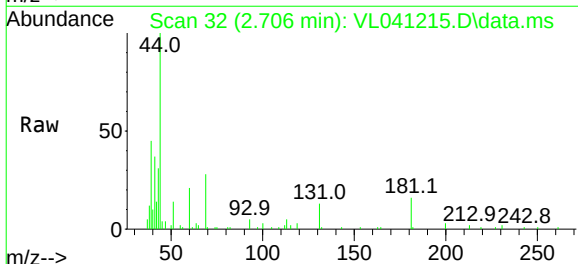
Manual Integrations
APPROVED

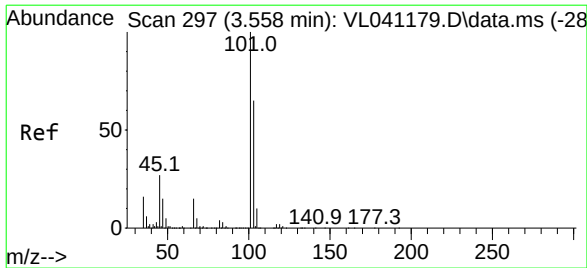
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#9
Propene
Concen: 0.290 ppbv m
RT: 2.706 min Scan# 32
Delta R.T. 0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

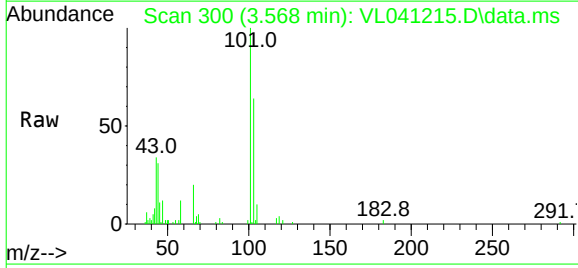
Tgt Ion: 41 Resp: 13671
Ion Ratio Lower Upper
41 100
42 55.6 55.3 82.9





#11
 Trichlorofluoromethane
 Concen: 0.265 ppbv
 RT: 3.568 min Scan# 301
 Delta R.T. 0.000 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

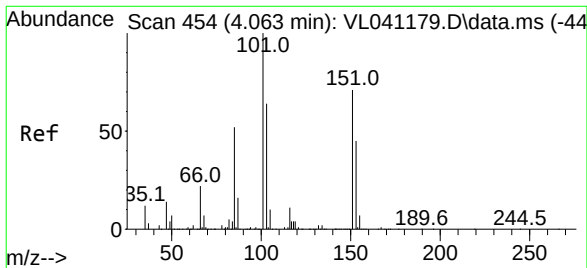
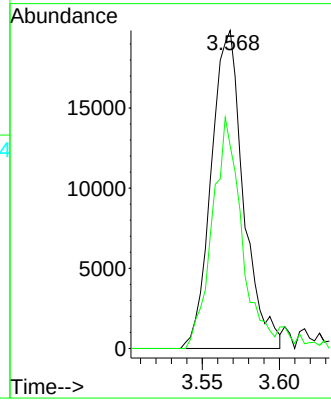
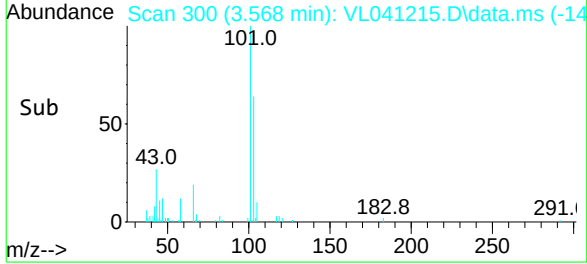
Instrument :
 MSVOA_L
 ClientSampleId :
 BA-03-IA02-20240425



Tgt Ion:101 Resp: 28833
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.6 77.4

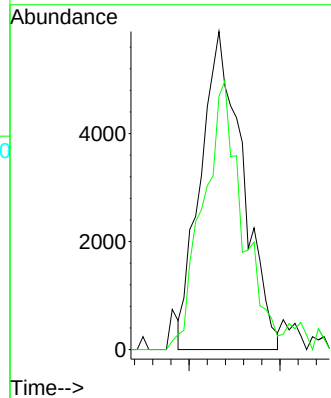
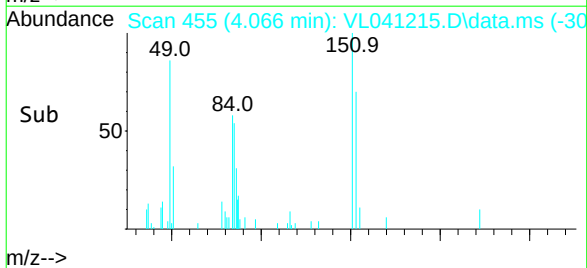
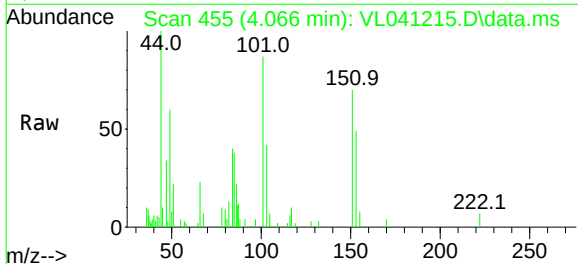
Manual Integrations
 APPROVED

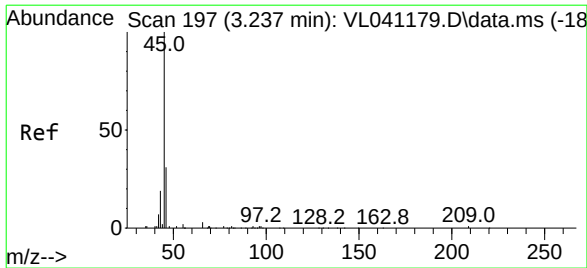
Reviewed By :Semsettin Yesilyurt 05/07/2024
 Supervised By :Mahesh Dadoda 05/07/2024



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.118 ppbv m
 RT: 4.066 min Scan# 455
 Delta R.T. -0.003 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

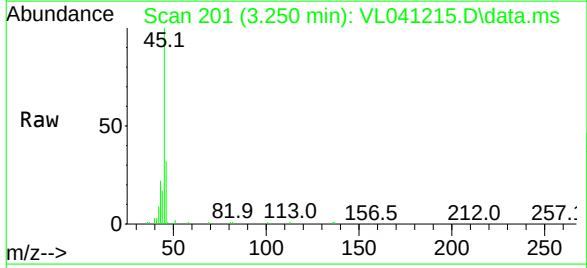
Tgt Ion:101 Resp: 9528
 Ion Ratio Lower Upper
 101 100
 151 82.9 56.8 85.2





#13
Ethanol
Concen: 9.541 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.007 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

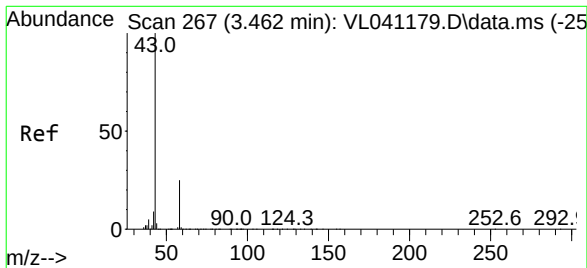
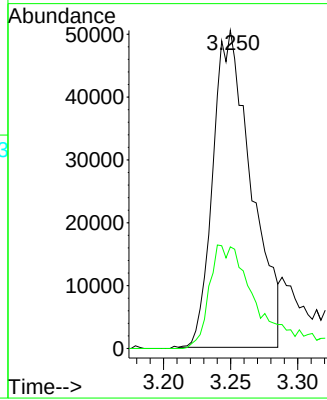
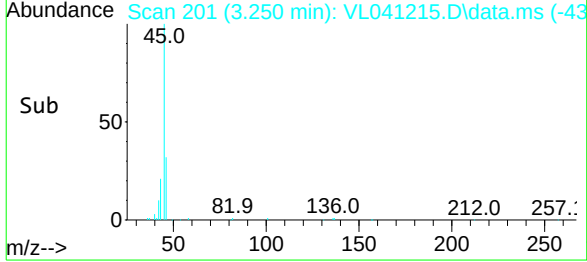
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425



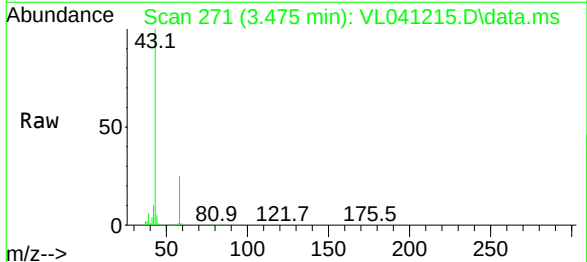
Tgt Ion: 45 Resp: 100754
Ion Ratio Lower Upper
45 100
46 44.8 14.8 59.0

Manual Integrations
APPROVED

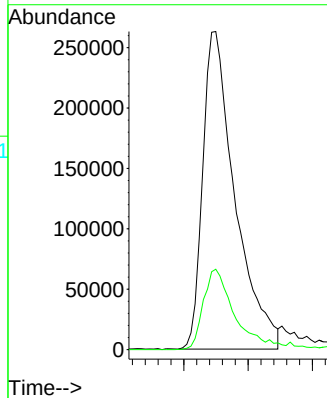
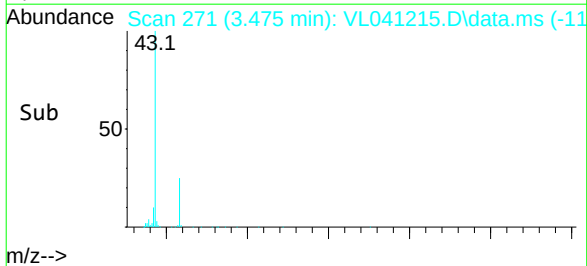
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024

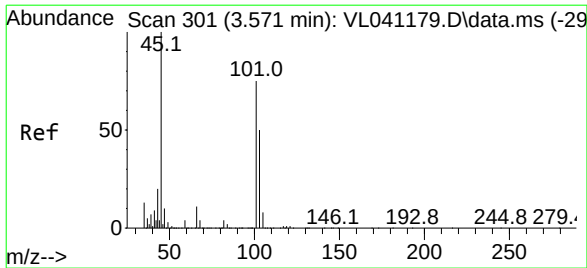


#15
Acetone
Concen: 4.905 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.000 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01



Tgt Ion: 43 Resp: 458829
Ion Ratio Lower Upper
43 100
58 26.1 21.4 32.0





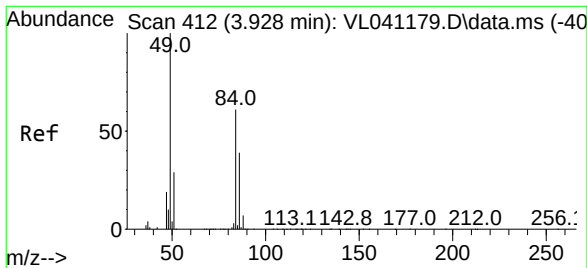
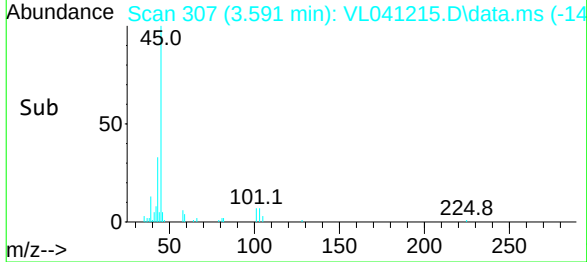
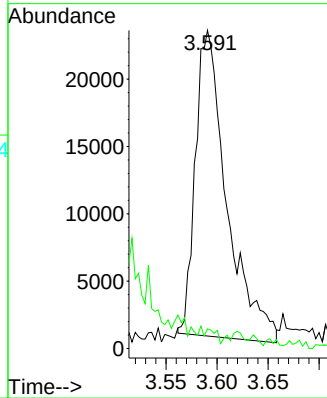
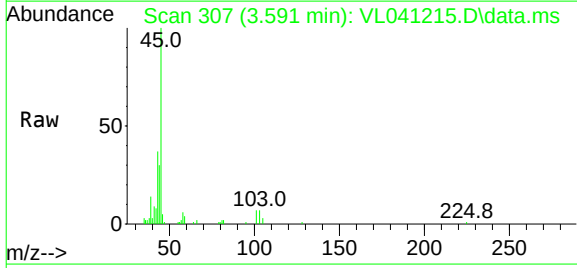
#19
Isopropyl Alcohol
Concen: 0.787 ppbv m
RT: 3.591 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425

Tgt Ion: 45 Resp: 48316
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2#

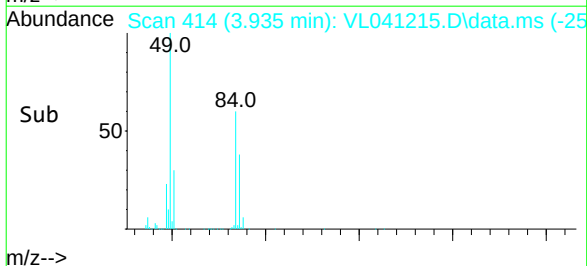
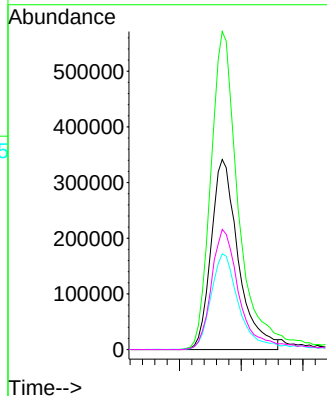
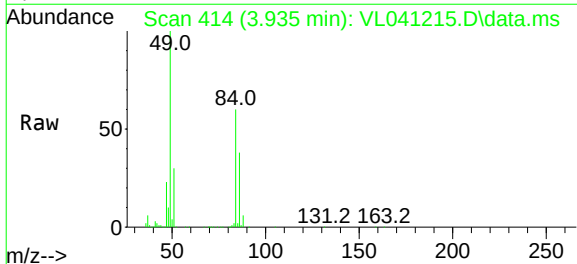
Manual Integrations
APPROVED

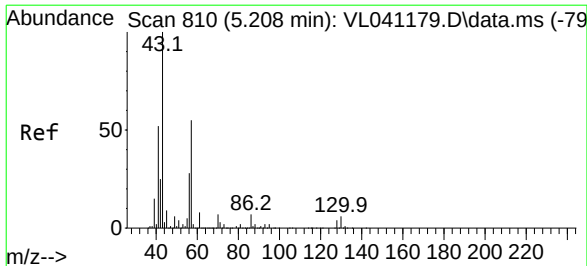
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#20
Methylene Chloride
Concen: 16.156 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 84 Resp: 525515
Ion Ratio Lower Upper
84 100
49 167.3 130.4 195.6
51 50.2 38.0 57.0
86 63.2 50.3 75.5





#26

Hexane

Concen: 8.254 ppbv

RT: 5.211 min Scan# 810

Delta R.T. -0.003 min

Lab File: VL041215.D

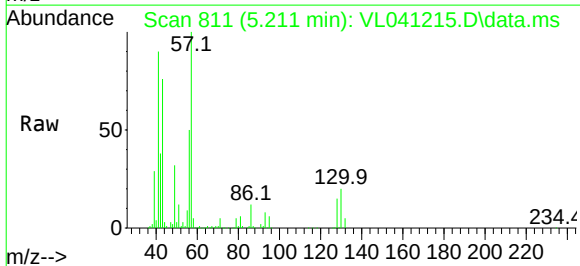
Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

BA-03-IA02-20240425



Tgt Ion: 57 Resp: 687723

Ion Ratio Lower Upper

57 100

41 93.2 75.8 113.8

43 76.8 187.0 280.4#

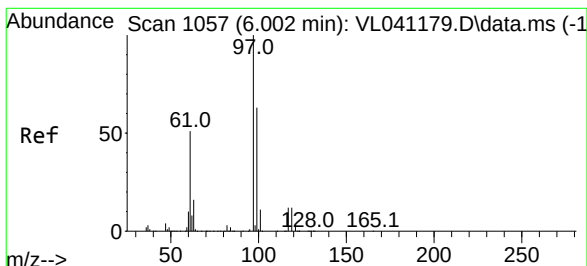
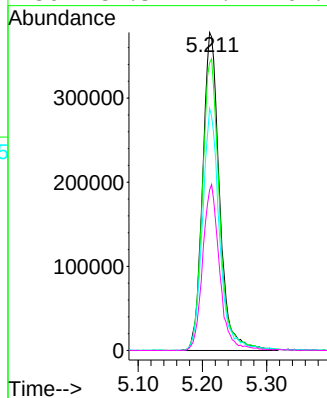
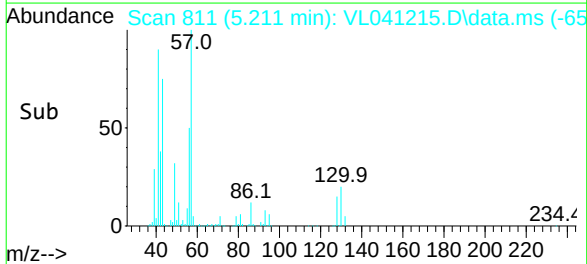
56 52.3 42.7 64.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024

Supervised By :Mahesh Dadoda 05/07/2024



#32

1,1,1-Trichloroethane

Concen: 0.046 ppbv m

RT: 6.002 min Scan# 1057

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

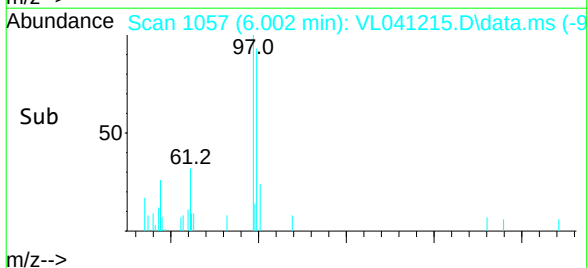
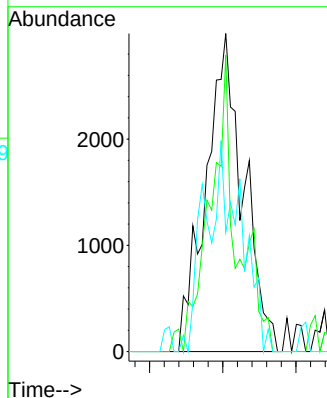
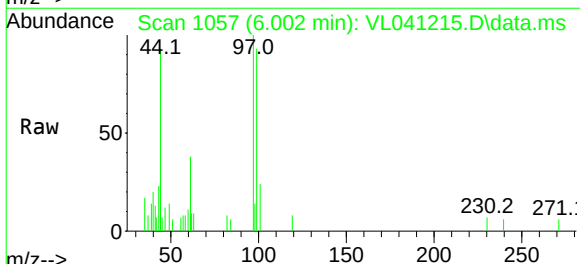
Tgt Ion: 97 Resp: 5316

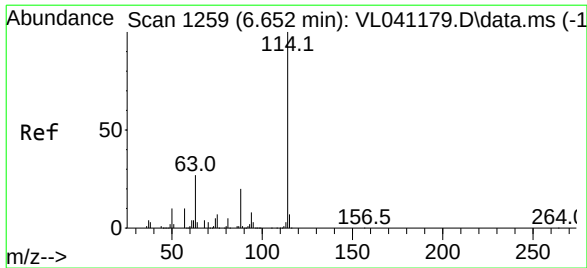
Ion Ratio Lower Upper

97 100

99 67.8 51.7 77.5

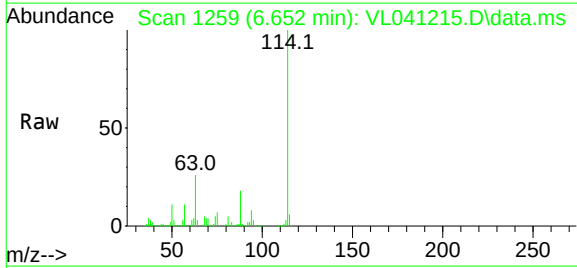
61 65.6 41.1 61.7#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

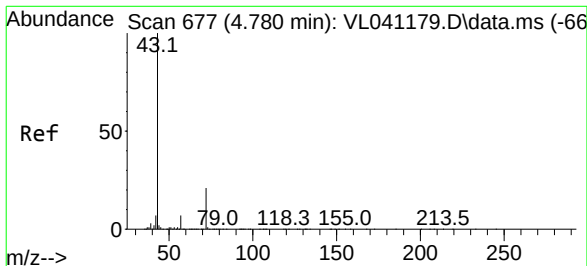
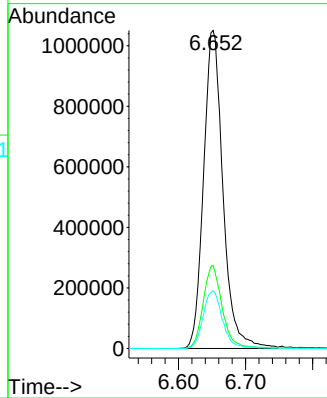
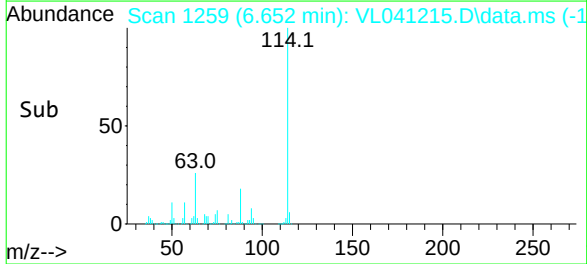
Instrument : MSVOA_L
ClientSampleId : BA-03-IA02-20240425



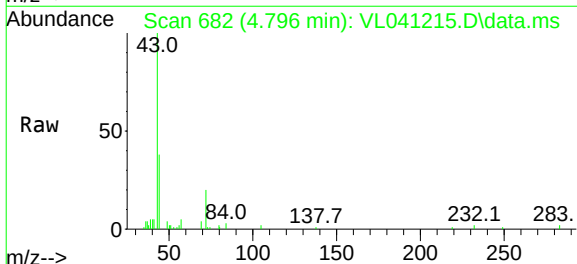
Tgt Ion: 114 Resp: 2107991
Ion Ratio Lower Upper
114 100
63 26.0 21.8 32.6
88 18.4 15.2 22.8

Manual Integrations
APPROVED

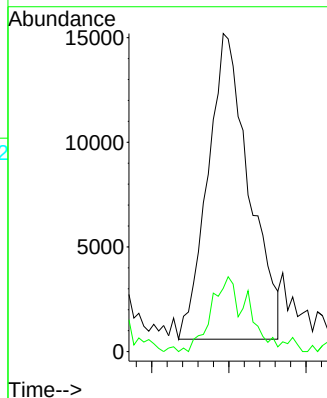
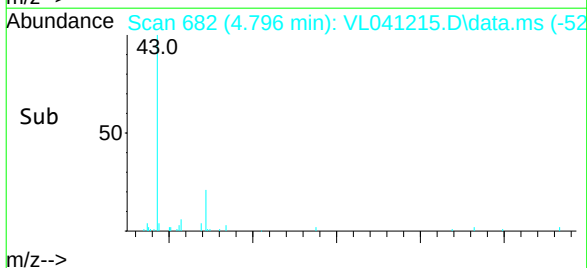
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024

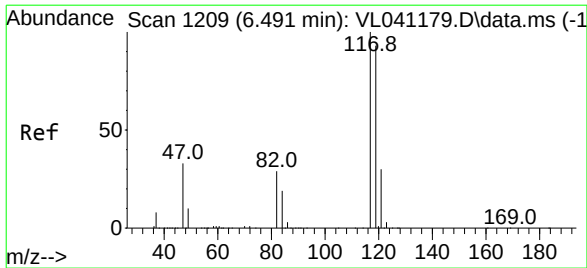


#34
2-Butanone
Concen: 0.253 ppbv
RT: 4.796 min Scan# 682
Delta R.T. 0.010 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01



Tgt Ion: 43 Resp: 27121
Ion Ratio Lower Upper
43 100
72 24.3 17.3 25.9





#35

Carbon Tetrachloride

Concen: 0.325 ppbv

RT: 6.491 min Scan# 1209

Delta R.T. -0.003 min

Lab File: VL041215.D

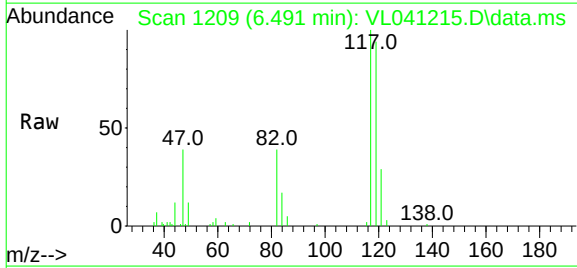
Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

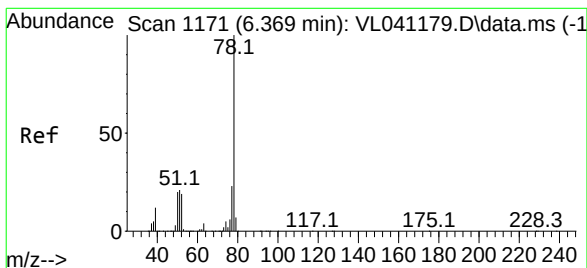
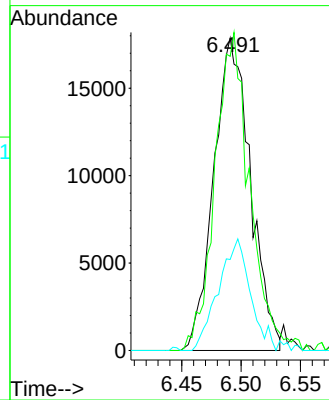
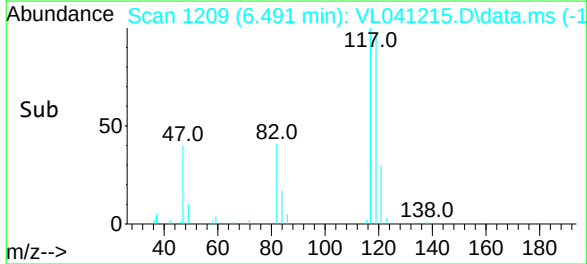
BA-03-IA02-20240425



Tgt Ion:	117	Resp:	38397
Ion	Ratio	Lower	Upper
117	100		
119	94.1	74.3	111.5
121	29.1	23.8	35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#36

Benzene

Concen: 0.067 ppbv m

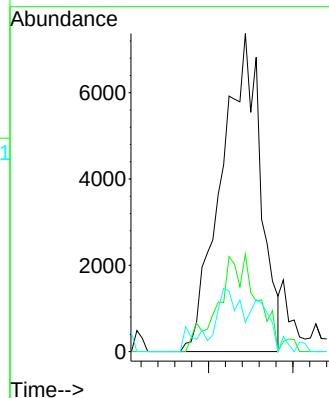
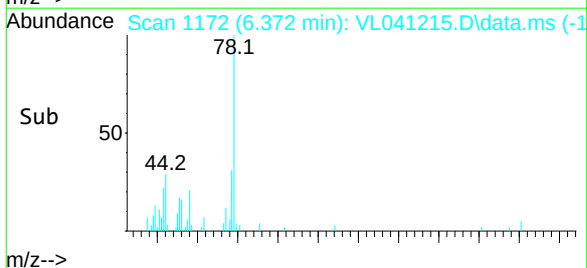
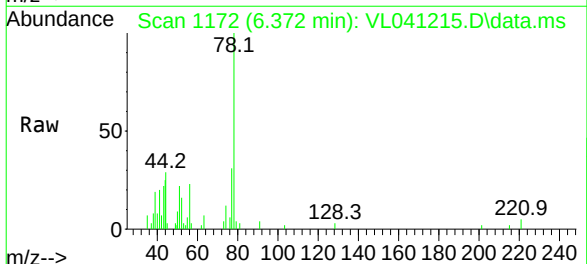
RT: 6.372 min Scan# 1172

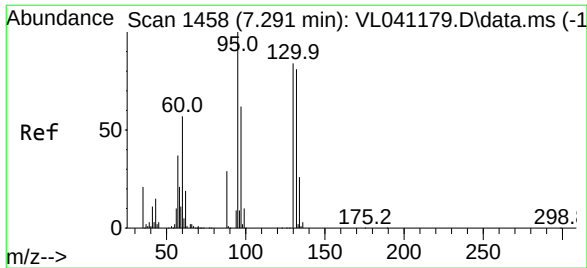
Delta R.T. 0.000 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion:	78	Resp:	11904
Ion	Ratio	Lower	Upper
78	100		
77	30.7	18.3	27.5#
50	9.2	15.9	23.9#





#38

Trichloroethene

Concen: 14.541 ppbv

RT: 7.288 min Scan# 1458

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

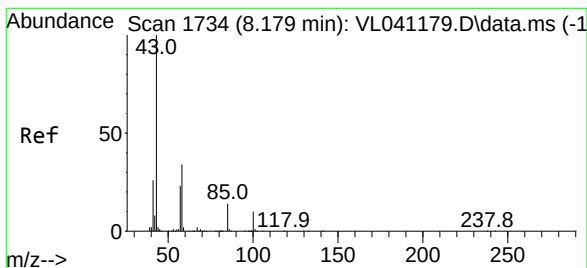
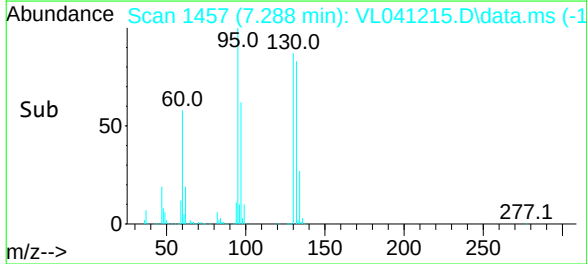
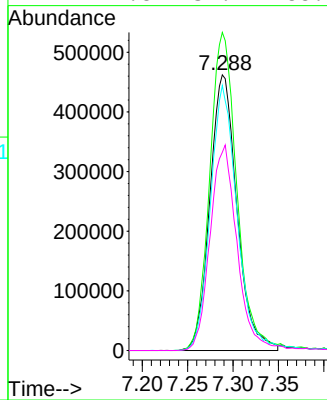
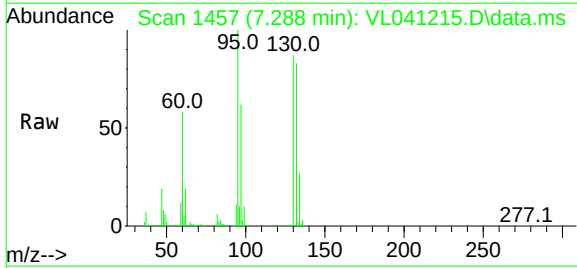
BA-03-IA02-20240425

Tgt Ion:	130	Resp:	958585
Ion Ratio	Lower	Upper	
130	100		
95	115.3	95.0	142.6
132	96.1	77.0	115.4
97	71.8	59.1	88.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#50

4-Methyl-2-Pentanone

Concen: 0.110 ppbv m

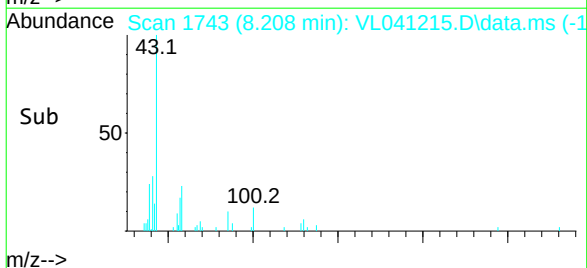
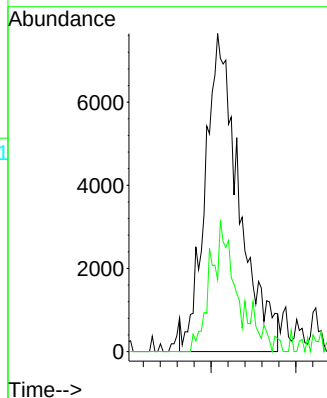
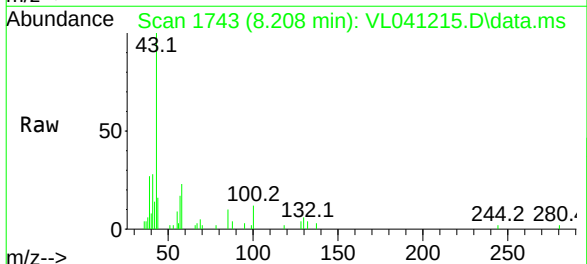
RT: 8.208 min Scan# 1743

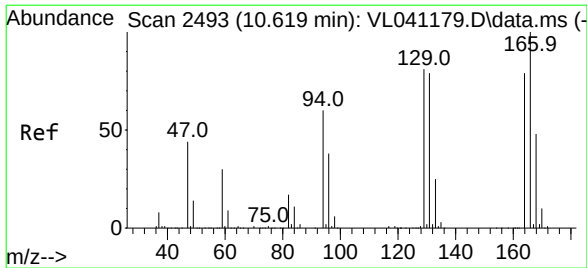
Delta R.T. 0.029 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion:	43	Resp:	21261
Ion Ratio	Lower	Upper	
43	100		
58	0.0	27.7	41.5#





#52

Tetrachloroethene

Concen: 1.066 ppbv m

RT: 10.610 min Scan# 2493

Delta R.T. -0.003 min

Lab File: VL041215.D

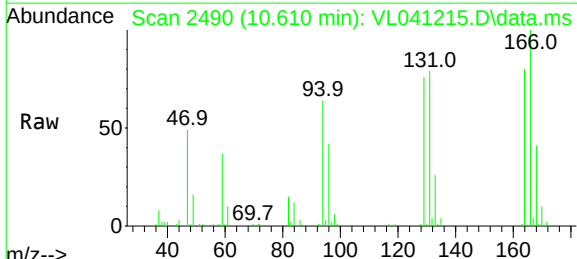
Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

BA-03-IA02-20240425



Tgt Ion: 164 Resp: 66252

Ion Ratio Lower Upper

164 100

166 125.0 101.1 151.7

129 95.4 81.7 122.5

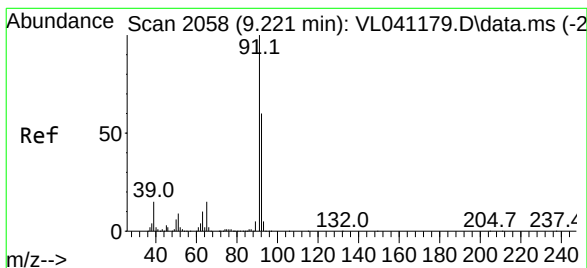
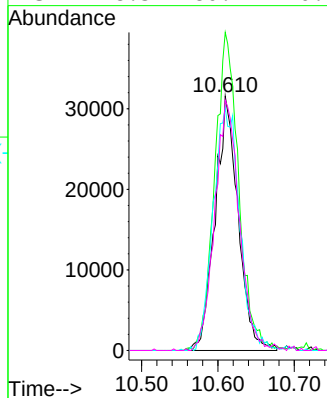
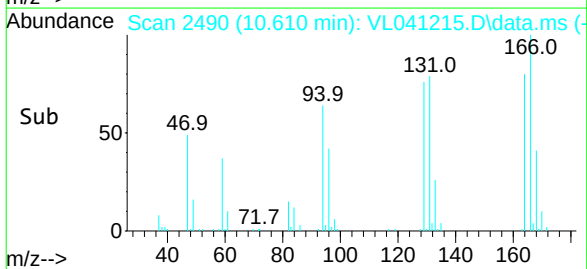
131 98.5 80.4 120.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024

Supervised By :Mahesh Dadoda 05/07/2024



#53

Toluene

Concen: 0.499 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VL041215.D

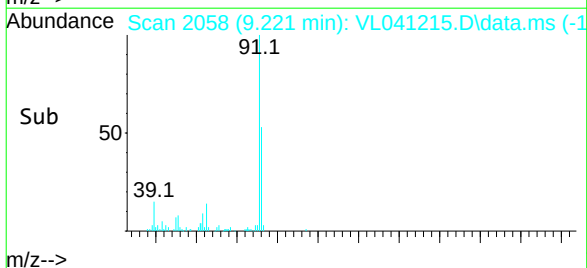
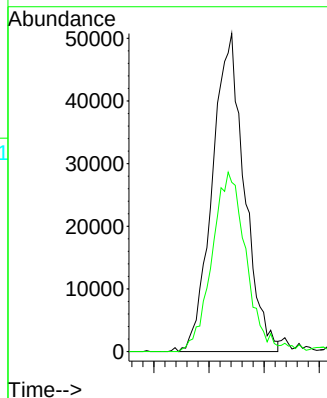
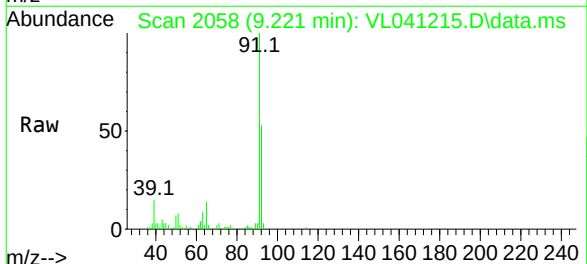
Acq: 6 May 2024 13:01

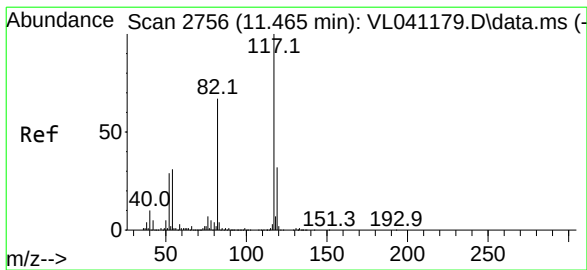
Tgt Ion: 91 Resp: 102394

Ion Ratio Lower Upper

91 100

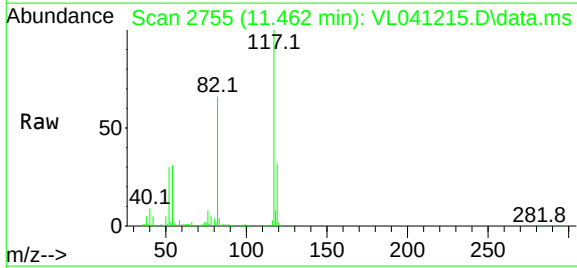
92 61.3 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 2756
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

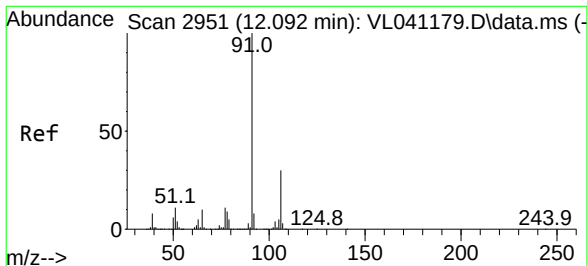
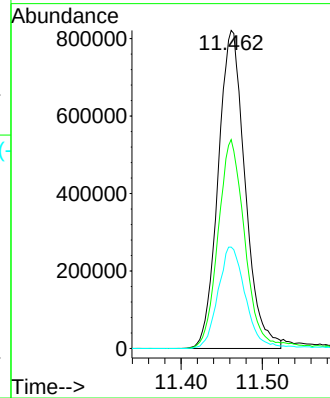
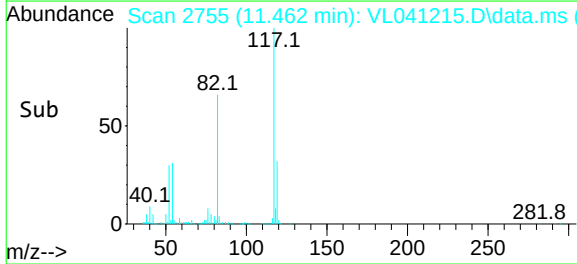
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425



Tgt Ion:117 Resp: 1893755
Ion Ratio Lower Upper
117 100
82 67.2 53.6 80.4
119 33.5 27.2 40.8

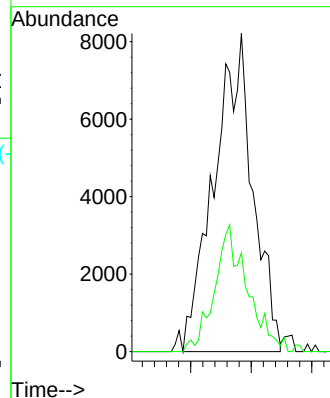
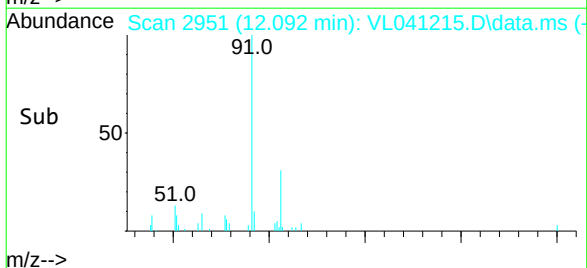
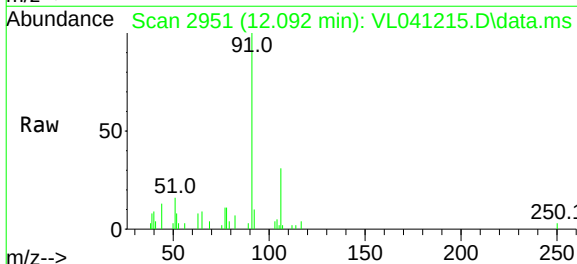
Manual Integrations
APPROVED

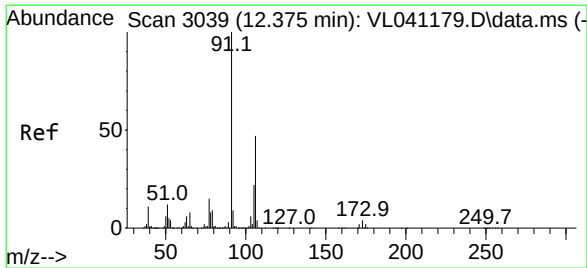
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#58
Ethyl Benzene
Concen: 0.070 ppbv m
RT: 12.092 min Scan# 2951
Delta R.T. 0.007 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 91 Resp: 18236
Ion Ratio Lower Upper
91 100
106 31.1 24.3 36.5





#59

m/p-Xylene

Concen: 0.174 ppbv m

RT: 12.336 min Scan# 3039

Delta R.T. -0.032 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion: 91 Resp: 37936

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#

Instrument :

MSVOA_L

ClientSampleId :

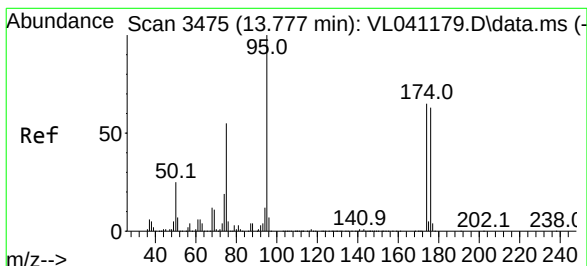
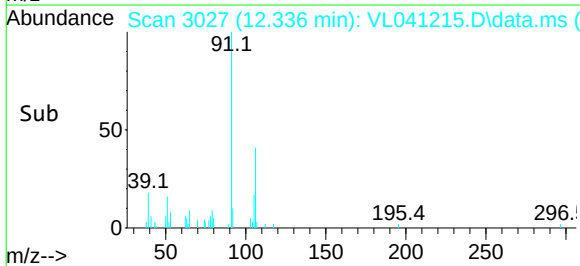
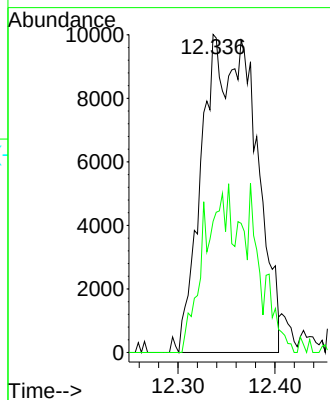
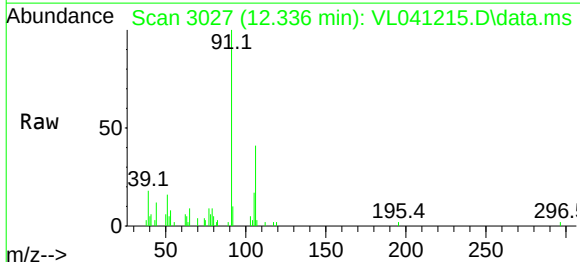
BA-03-IA02-20240425

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024

Supervised By :Mahesh Dadoda 05/07/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.911 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion: 95 Resp: 1416959

Ion Ratio Lower Upper

95 100

174 67.0 53.6 80.4

175 4.7 4.2 6.4

