

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040773.D
 Acq On : 12 Oct 2023 2:26
 Operator : SY/MD
 Sample : 04699-14 LOQ 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2023

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/13/2023
 Supervised By :Mahesh Dadoda 10/16/2023

Quant Time: Oct 13 01:22:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	920936	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2642377	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2405780	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1842091	10.406	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%
Target Compounds						
					Qvalue	
32) 1,1,1-Trichloroethane	6.018	97	4554	0.031	ppbv #	76
35) Carbon Tetrachloride	6.507	117	4916m	0.033	ppbv	
38) Trichloroethene	7.301	130	3742m	0.042	ppbv	
52) Tetrachloroethene	10.619	164	3062m	0.037	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.047	83	5832m	0.033	ppbv	

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

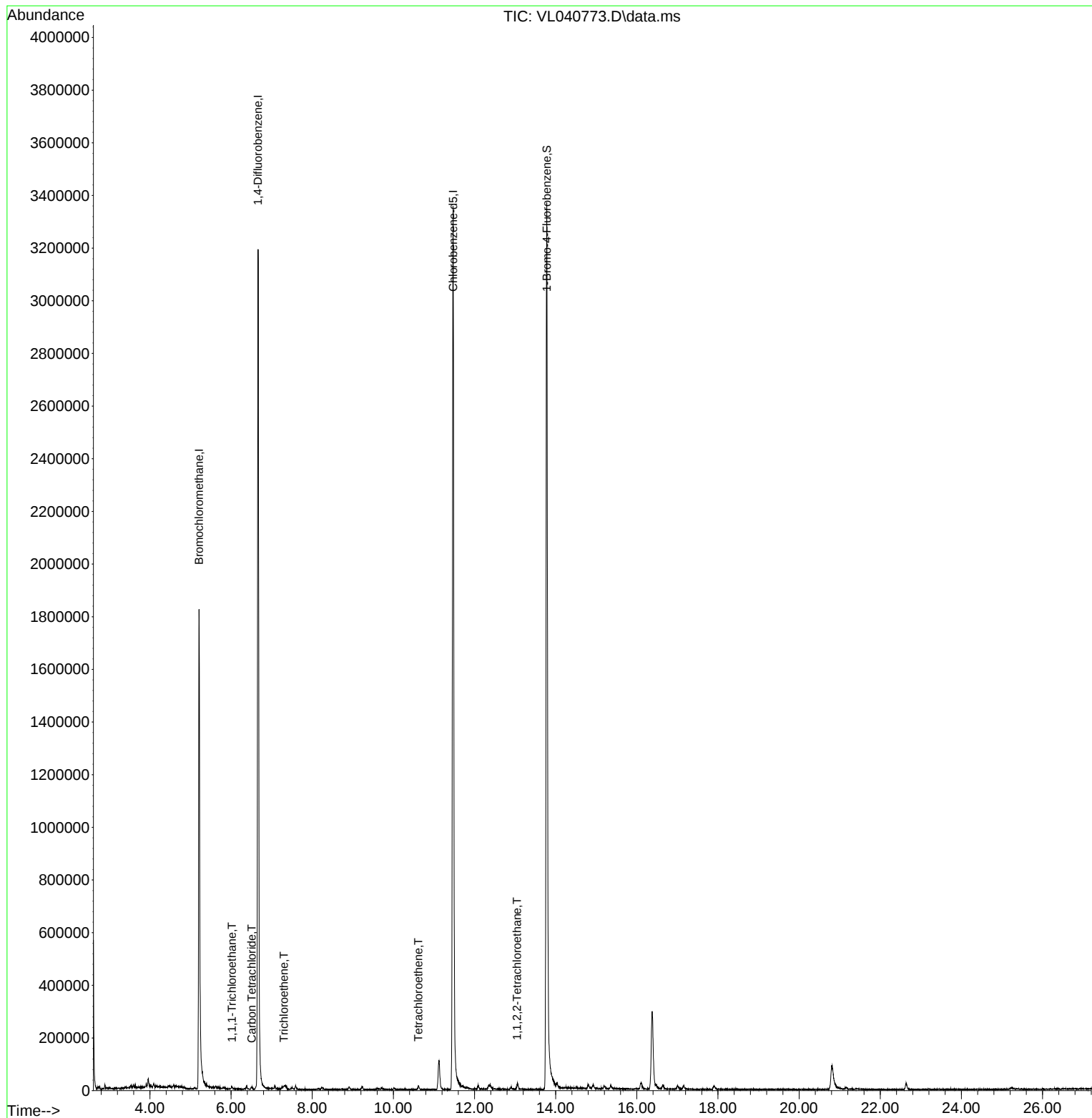
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
Data File : VL040773.D
Acq On : 12 Oct 2023 2:26
Operator : SY/MD
Sample : 04699-14 LOQ 0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

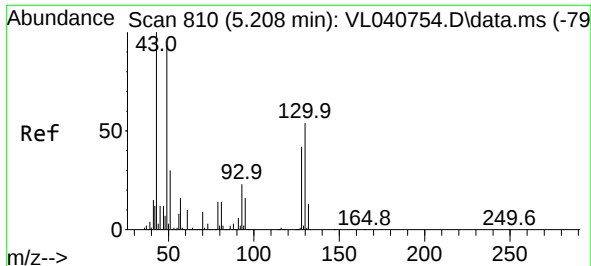
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023

Quant Time: Oct 13 01:22:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

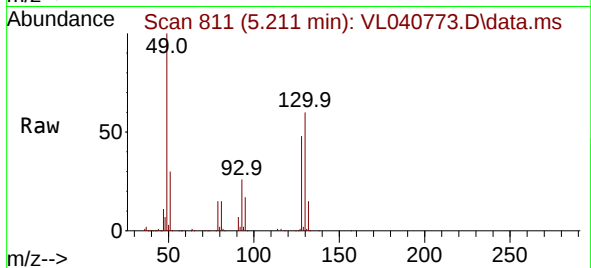
Reviewed By : Semsettin Yesilyurt 10/13/2023
Supervised By : Mahesh Dadoda 10/16/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

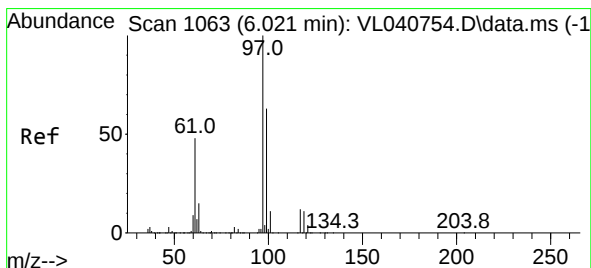
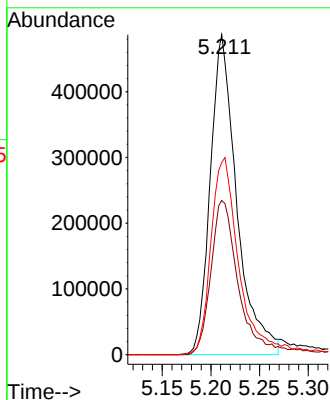
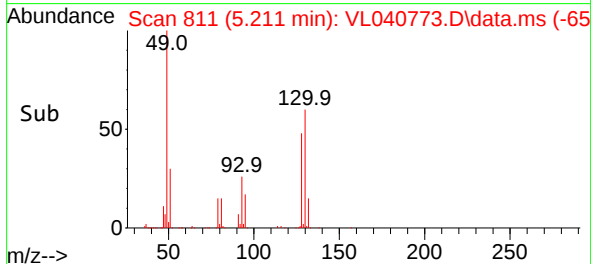
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023



Tgt Ion: 49 Resp: 920930
Ion Ratio Lower Upper
49 100
128 52.0 23.9 71.7
130 68.8 30.7 92.1

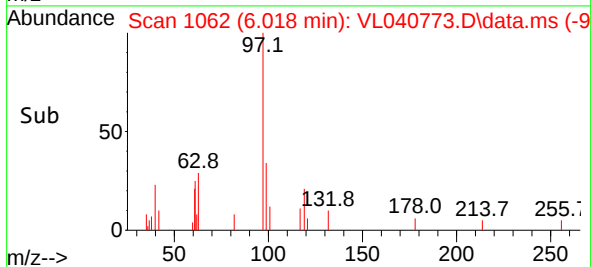
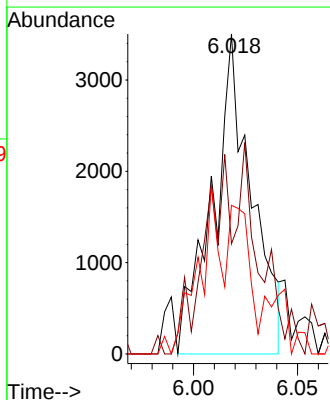
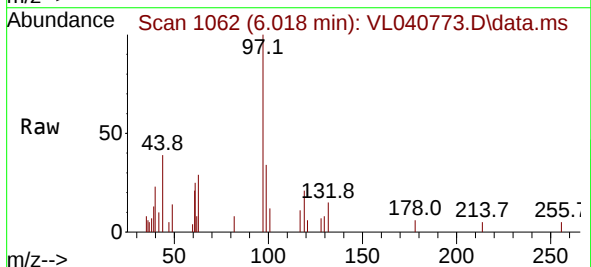
Manual Integrations
APPROVED

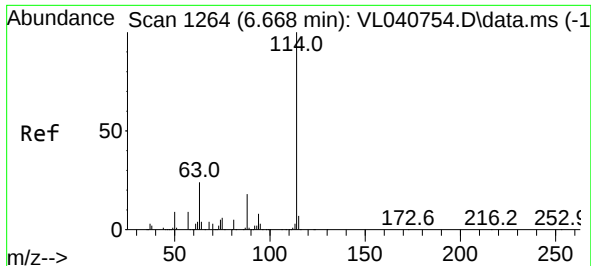
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#32
1,1,1-Trichloroethane
Concen: 0.031 ppbv
RT: 6.018 min Scan# 1062
Delta R.T. -0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

Tgt Ion: 97 Resp: 4554
Ion Ratio Lower Upper
97 100
99 81.8 51.8 77.6#
61 67.2 38.6 58.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2023

Tgt Ion:114 Resp: 264237

Ion Ratio Lower Upper

114 100

63 24.0 19.8 29.6

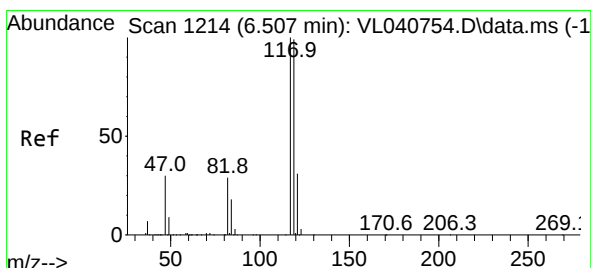
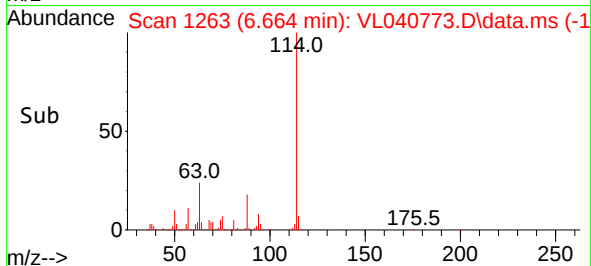
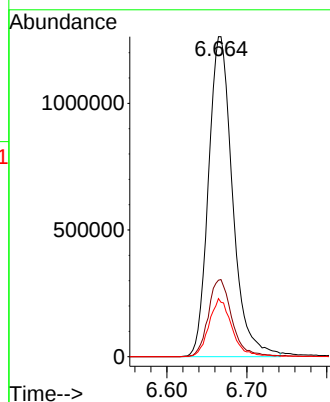
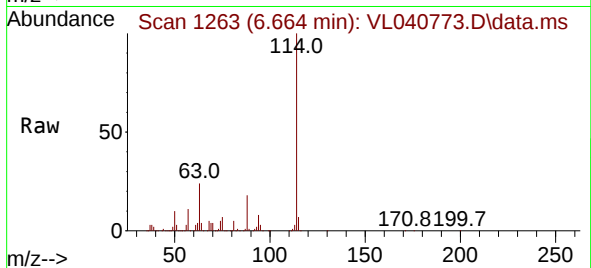
88 17.4 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/13/2023

Supervised By :Mahesh Dadoda 10/16/2023



#35

Carbon Tetrachloride

Concen: 0.033 ppbv m

RT: 6.507 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

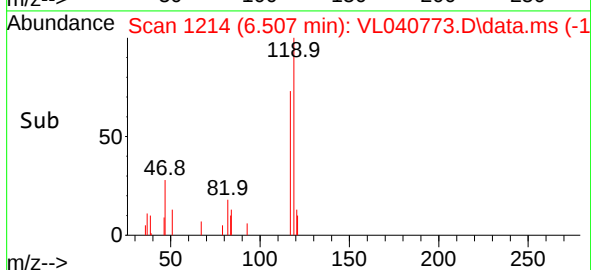
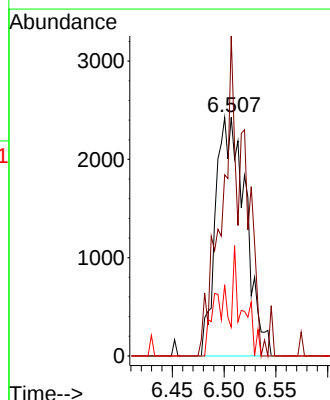
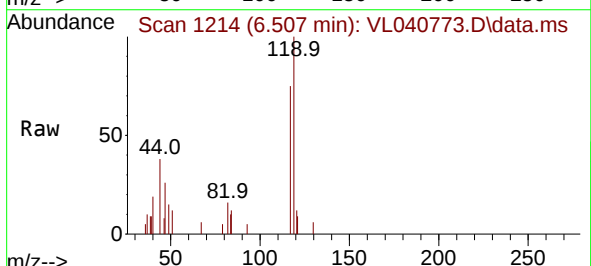
Tgt Ion:117 Resp: 4916

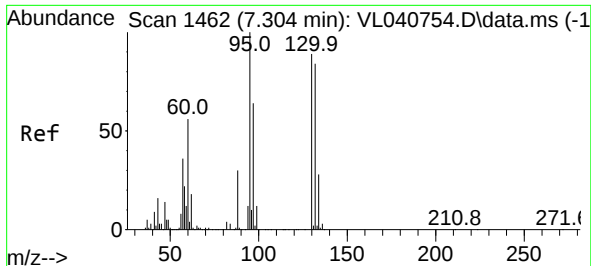
Ion Ratio Lower Upper

117 100

119 134.0 79.4 119.0#

121 12.0 25.0 37.4#





#38

Trichloroethene

Concen: 0.042 ppbv m

RT: 7.301 min Scan# 1461

Delta R.T. -0.003 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

Instrument :

MSVOA_L

ClientSampleId :

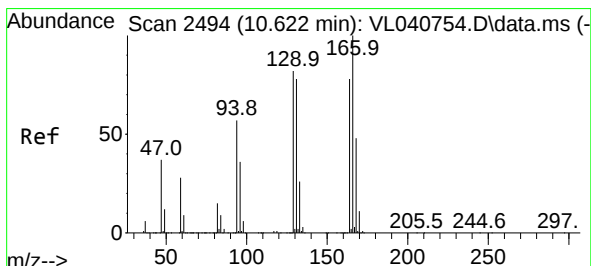
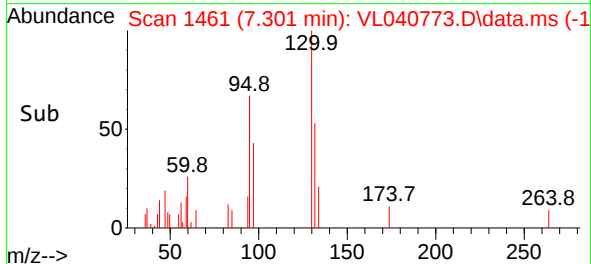
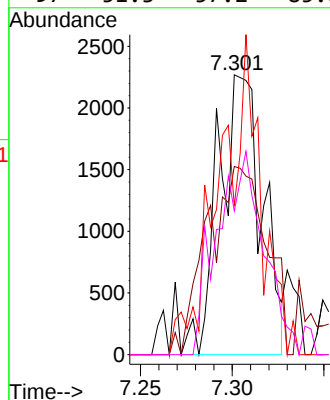
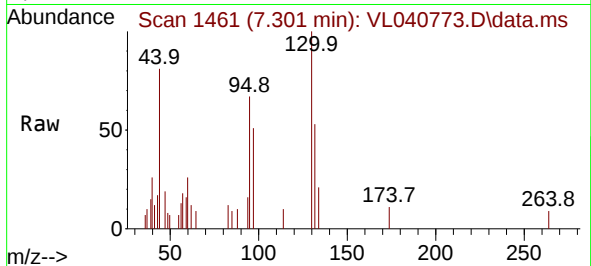
LOQ-AIR-02-QT4-2023

Tgt Ion:130	Resp:	374
Ion Ratio	Lower	Upper
130	100	
95	67.2	89.4 134.2
132	53.1	74.8 112.2
97	51.3	57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#52

Tetrachloroethene

Concen: 0.037 ppbv m

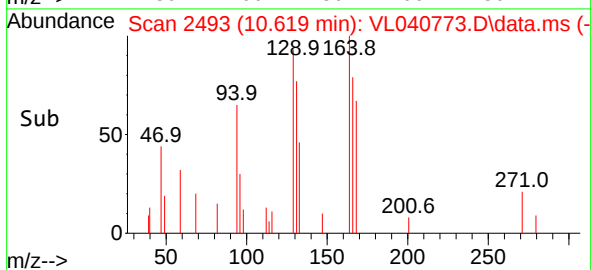
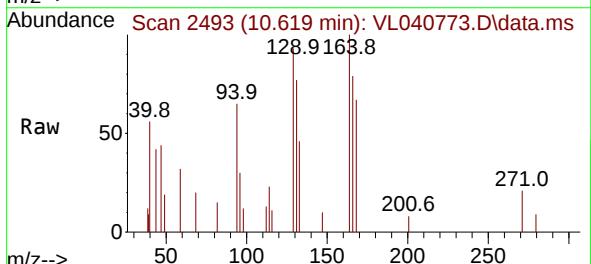
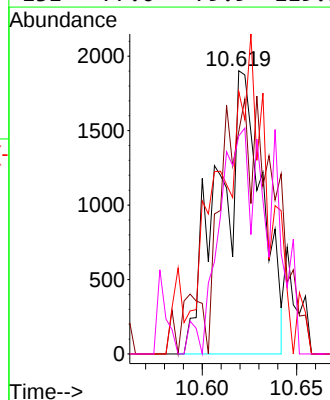
RT: 10.619 min Scan# 2493

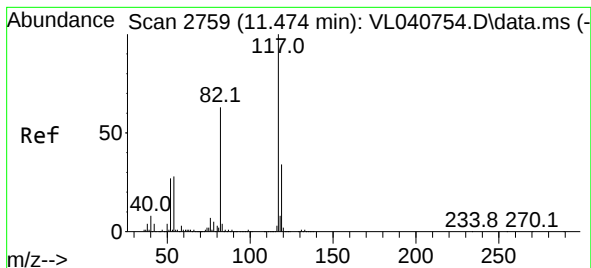
Delta R.T. -0.003 min

Lab File: VL040773.D

Acq: 12 Oct 2023 2:26

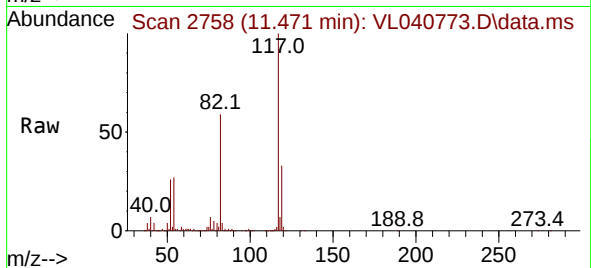
Tgt Ion:164	Resp:	3062
Ion Ratio	Lower	Upper
164	100	
166	78.5	102.4 153.6
129	92.6	84.2 126.4
131	77.0	79.9 119.9





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

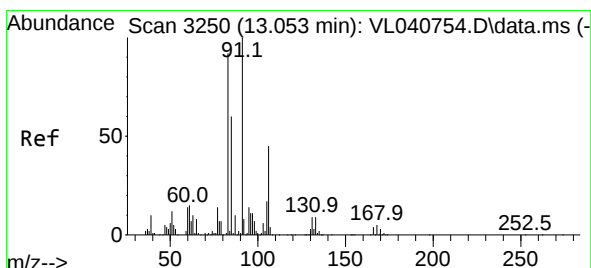
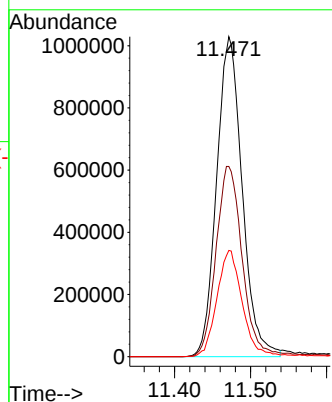
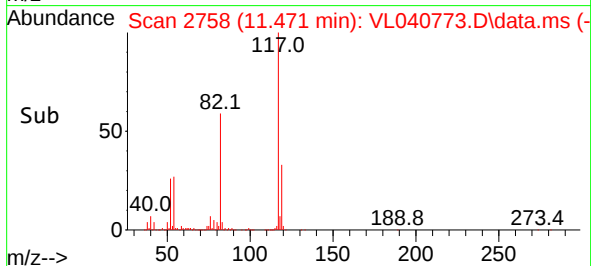
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2023



Tgt Ion:117 Resp: 2405780
Ion Ratio Lower Upper
117 100
82 62.4 46.6 70.0
119 33.7 26.0 39.0

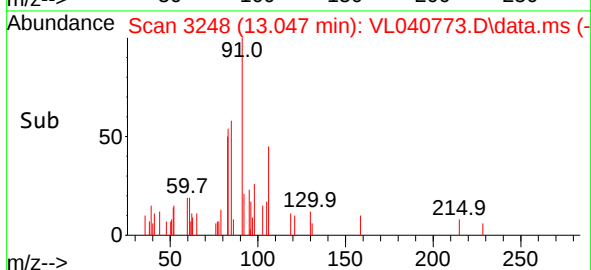
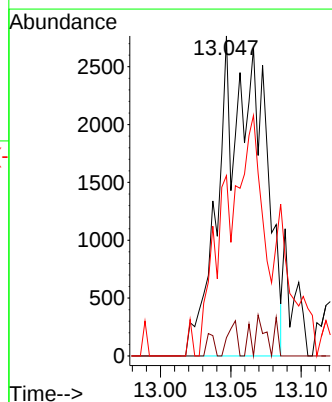
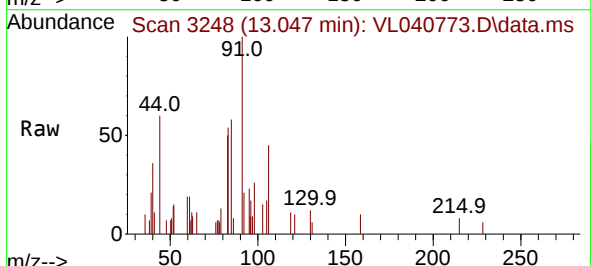
Manual Integrations
APPROVED

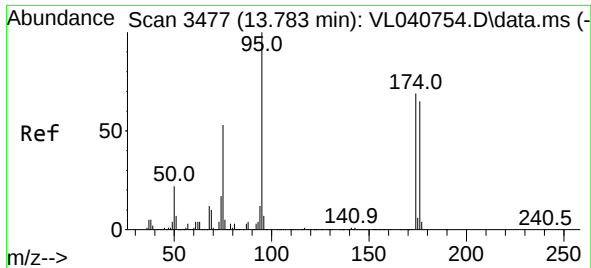
Reviewed By :Semsettin Yesilyurt 10/13/2023
Supervised By :Mahesh Dadoda 10/16/2023



#63
1,1,2,2-Tetrachloroethane
Concen: 0.033 ppbv m
RT: 13.047 min Scan# 3248
Delta R.T. -0.006 min
Lab File: VL040773.D
Acq: 12 Oct 2023 2:26

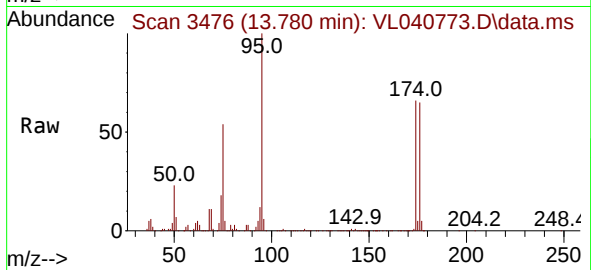
Tgt Ion: 83 Resp: 5832
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.6#
85 0.0 32.9 98.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.406 ppbv
 RT: 13.780 min Scan# 3476
 Delta R.T. -0.003 min
 Lab File: VL040773.D
 Acq: 12 Oct 2023 2:26

Instrument : MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2023



Tgt Ion: 95 Resp: 184209
 Ion Ratio Lower Upper
 95 100
 174 67.3 54.7 82.1
 175 5.1 4.2 6.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/13/2023
 Supervised By :Mahesh Dadoda 10/16/2023

