

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
 Data File : VL043015.D
 Acq On : 24 Sep 2025 19:49
 Operator : SY/MD
 Sample : Q2893-15 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2025

Quant Time: Sep 25 03:25:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 25 03:22:23 2025
 Response via : Initial Calibration

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

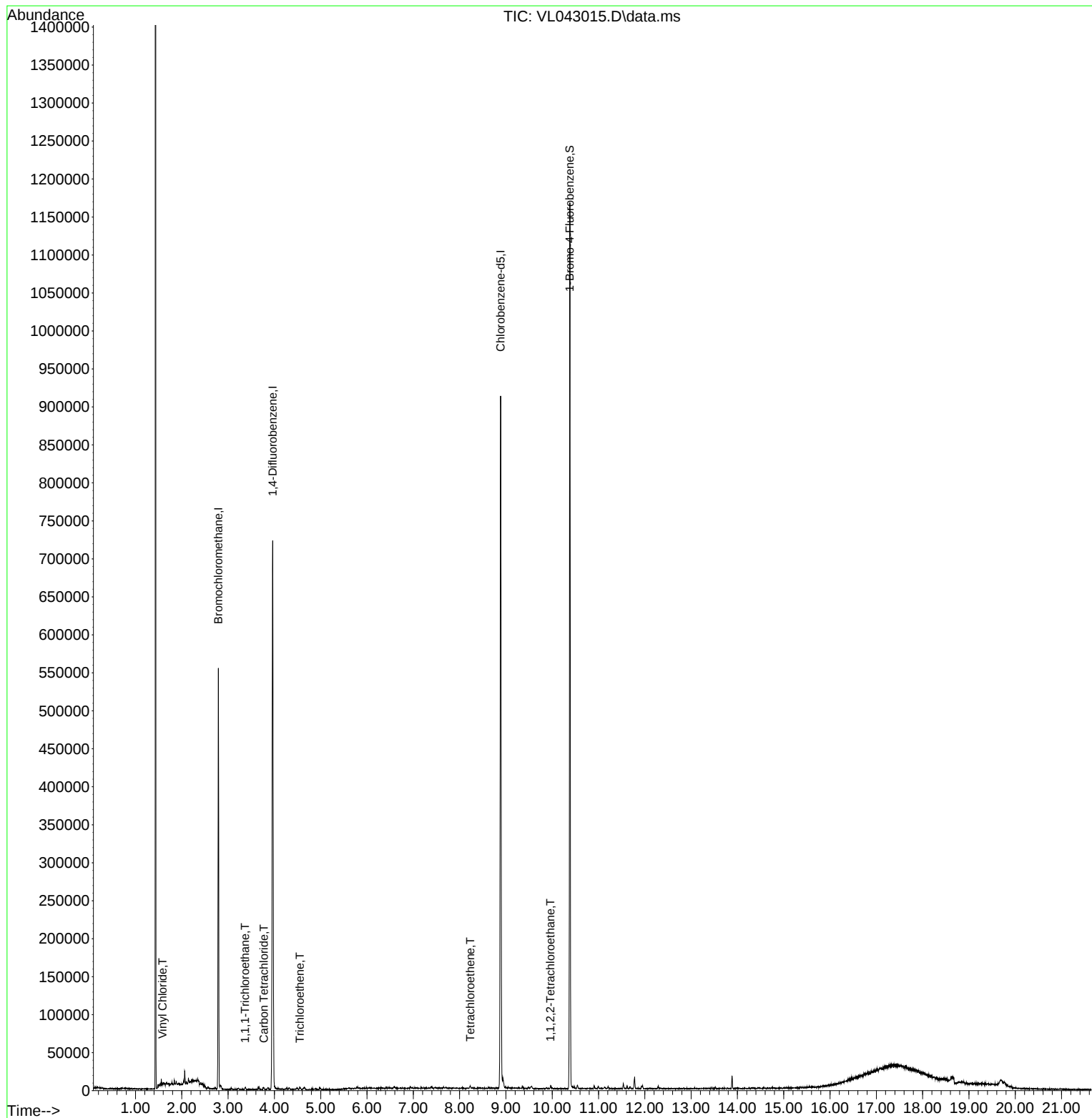
Internal Standards						
1) Bromochloromethane	2.790	49	148632	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429273	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	374768	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	272338	9.735	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.586	62	359	0.044	ppbv	96
32) 1,1,1-Trichloroethane	3.366	97	1370m	0.043	ppbv	
35) Carbon Tetrachloride	3.771	117	1178m	0.042	ppbv	
38) Trichloroethene	4.551	130	694m	0.035	ppbv	
52) Tetrachloroethene	8.231	164	682m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	862m	0.034	ppbv	

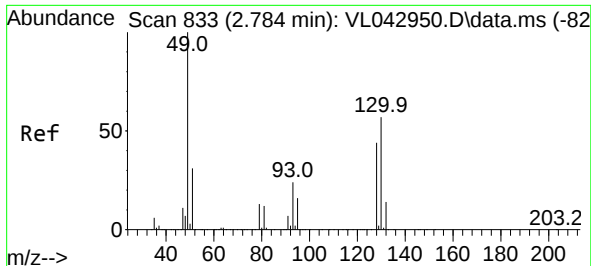
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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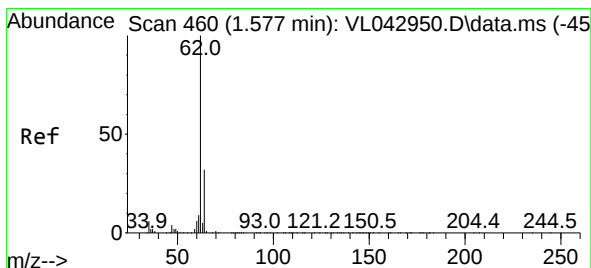
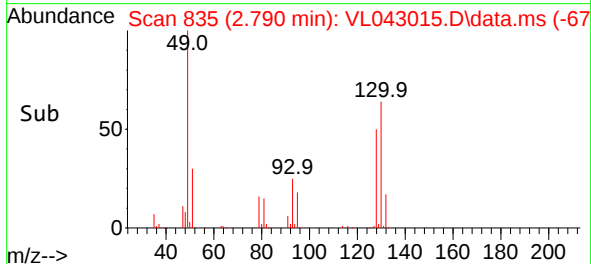
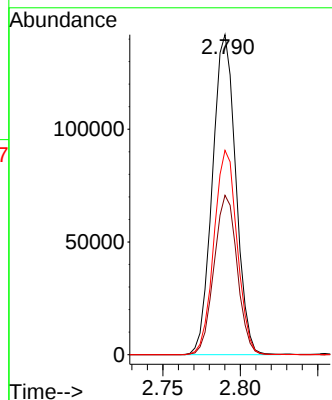
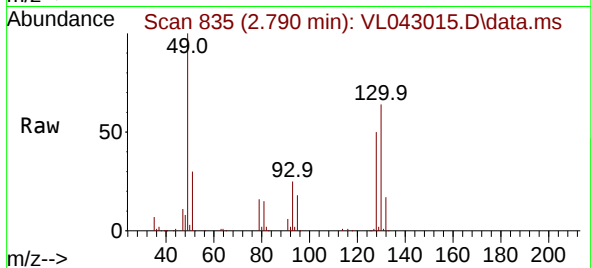




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

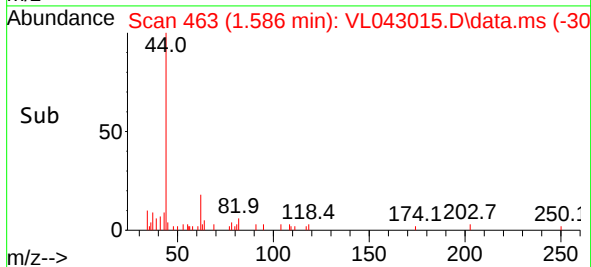
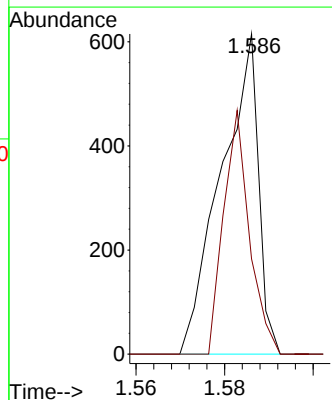
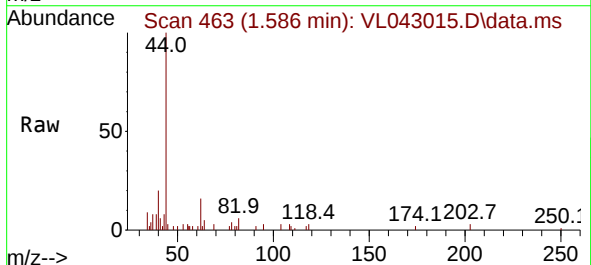
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2025

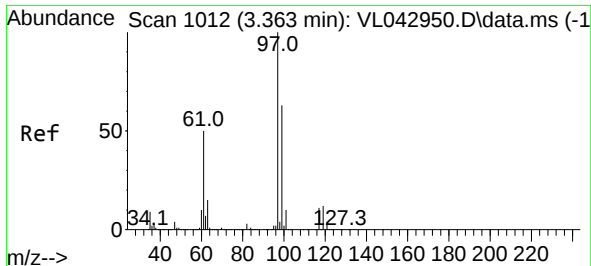
Tgt Ion: 49 Resp: 148632
Ion Ratio Lower Upper
49 100
128 49.3 22.9 68.8
130 63.3 29.1 87.3



#5
Vinyl Chloride
Concen: 0.044 ppbv
RT: 1.586 min Scan# 463
Delta R.T. 0.010 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

Tgt Ion: 62 Resp: 359
Ion Ratio Lower Upper
62 100
64 29.8 25.4 38.2





#32

1,1,1-Trichloroethane

Concen: 0.043 ppbv m

RT: 3.366 min Scan# 1012

Delta R.T. 0.003 min

Lab File: VL043015.D

Acq: 24 Sep 2025 19:49

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2025

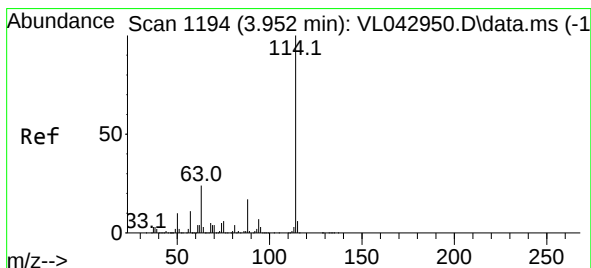
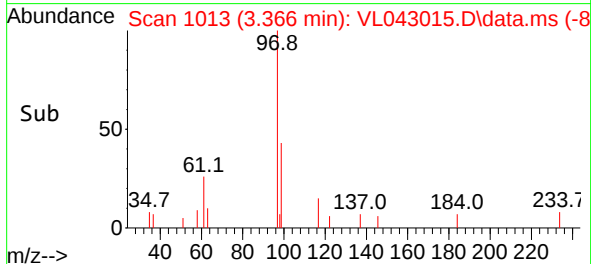
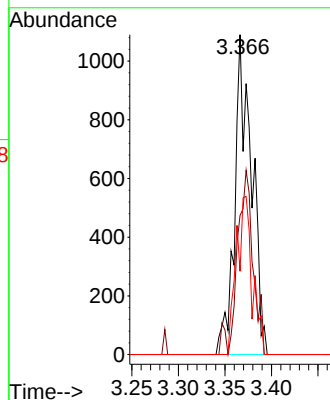
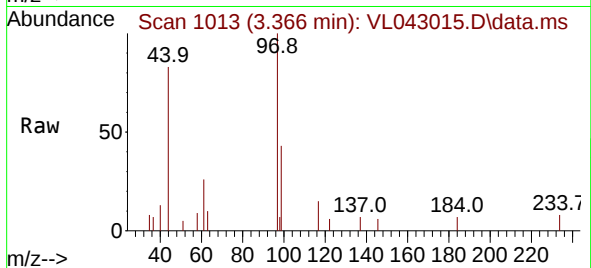
Tgt Ion: 97 Resp: 1370

Ion Ratio Lower Upper

97 100

99 54.2 51.1 76.7

61 46.4 39.8 59.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.010 min

Lab File: VL043015.D

Acq: 24 Sep 2025 19:49

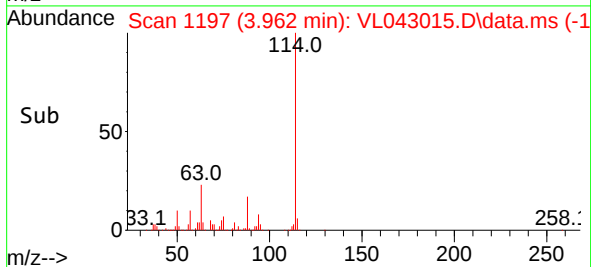
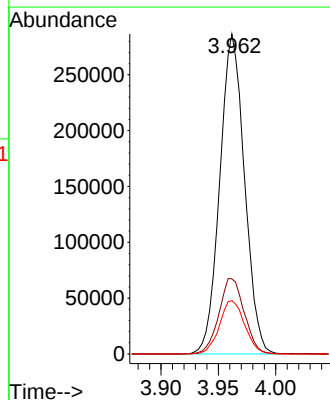
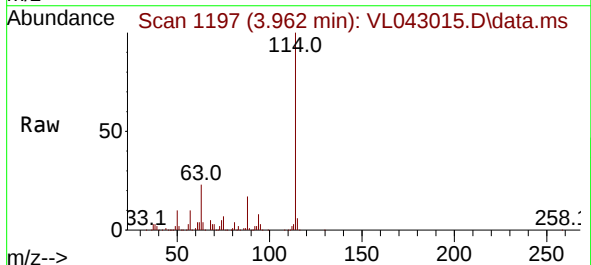
Tgt Ion: 114 Resp: 429273

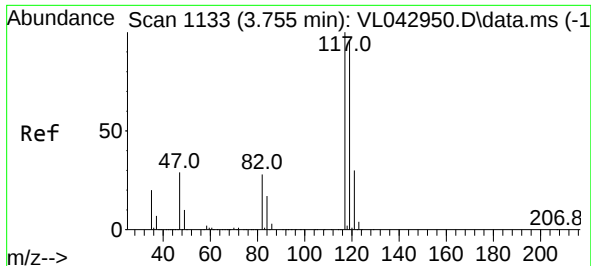
Ion Ratio Lower Upper

114 100

63 24.3 19.4 29.2

88 17.0 14.2 21.2

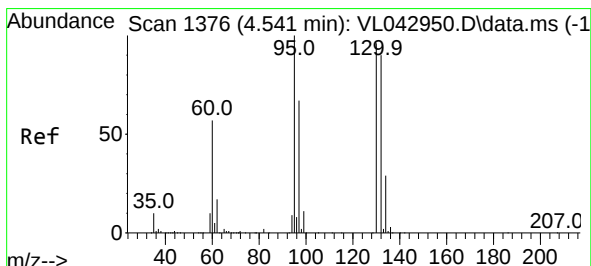
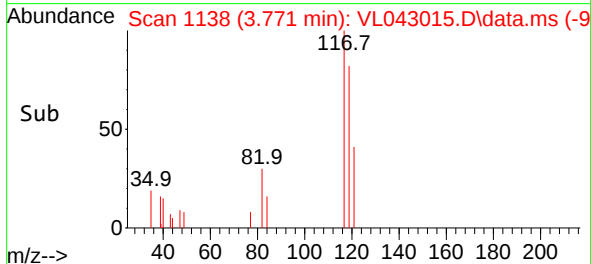
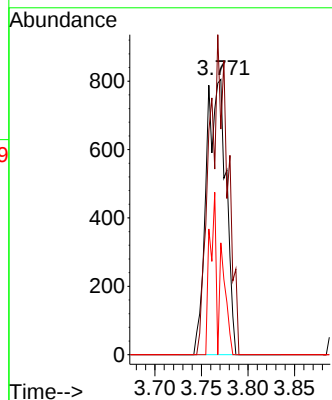
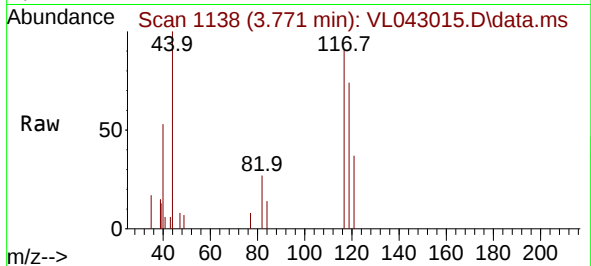




#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.771 min Scan# 1133
Delta R.T. 0.016 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

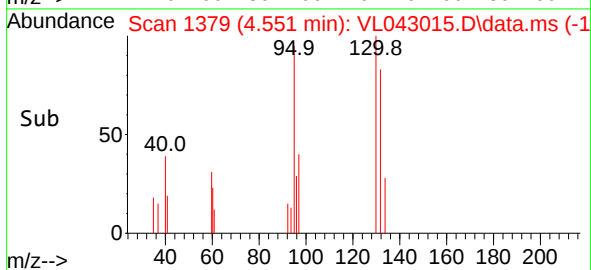
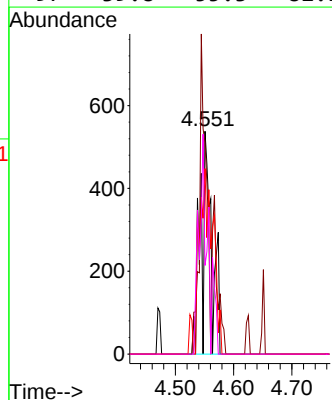
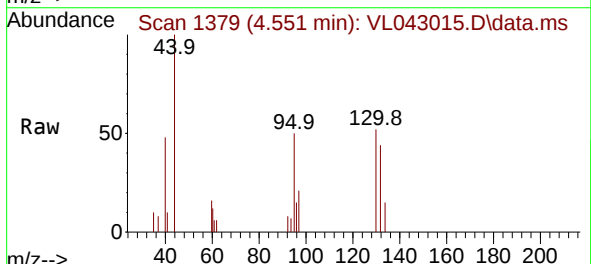
Instrument : MSVOA_L
ClientSampleId : MDL-AIR-03-QT3-2025

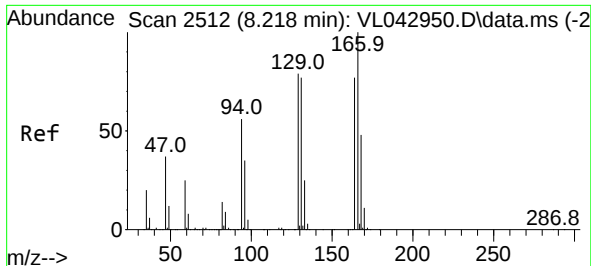
Tgt Ion:117 Resp: 1178
Ion Ratio Lower Upper
117 100
119 82.0 76.9 115.3
121 40.6 23.7 35.5#



#38
Trichloroethene
Concen: 0.035 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.010 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

Tgt Ion:130 Resp: 694
Ion Ratio Lower Upper
130 100
95 95.0 83.0 124.4
132 83.3 74.6 112.0
97 39.8 55.3 82.9#

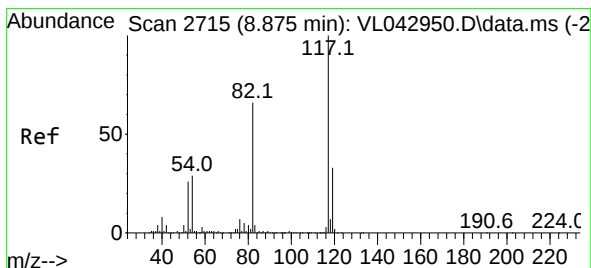
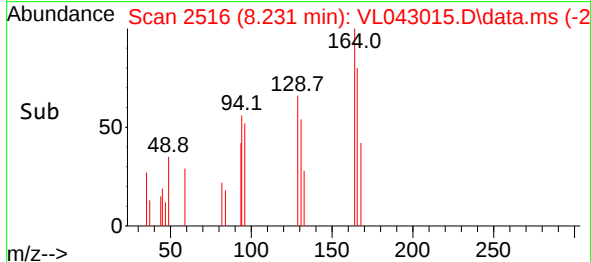
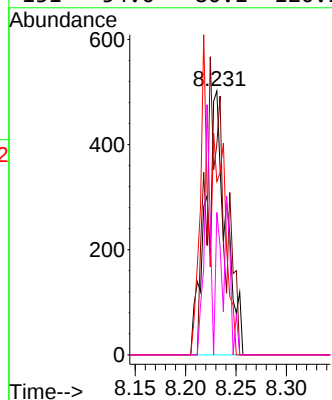
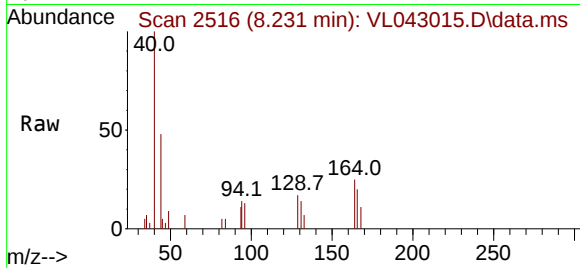




#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.231 min Scan# 216
Delta R.T. 0.013 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

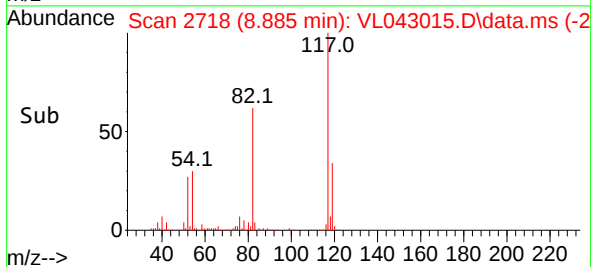
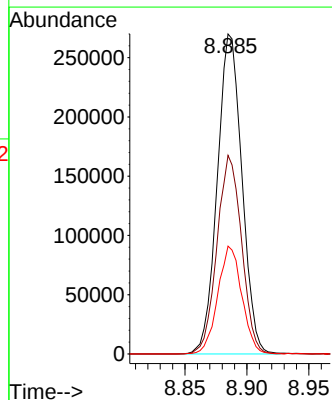
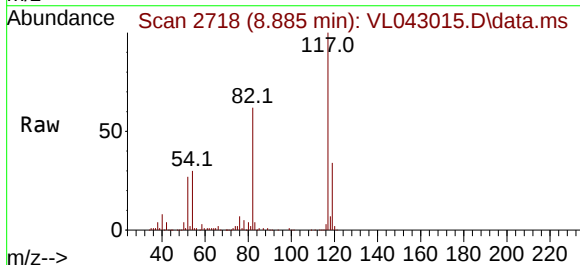
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2025

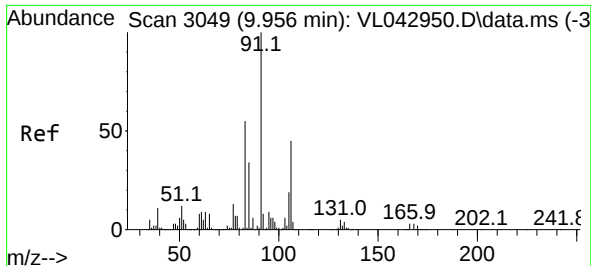
Tgt Ion:164 Resp: 682
Ion Ratio Lower Upper
164 100
166 79.7 103.5 155.3#
129 65.7 82.2 123.4#
131 54.0 80.1 120.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

Tgt Ion:117 Resp: 374768
Ion Ratio Lower Upper
117 100
82 62.0 52.8 79.2
119 33.0 26.5 39.7

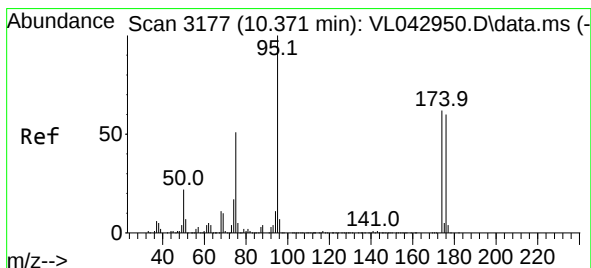
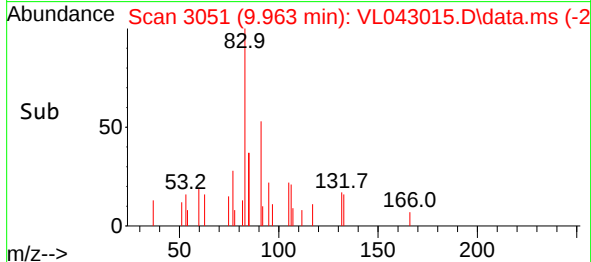
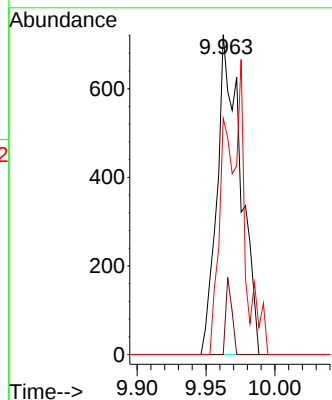
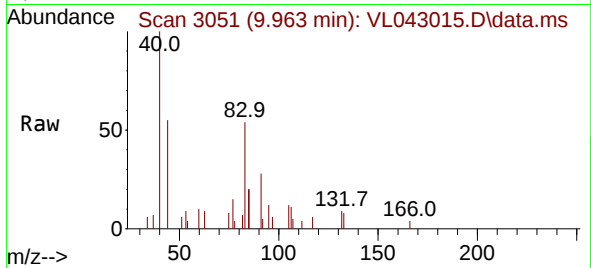




#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.963 min Scan# 3049
Delta R.T. 0.006 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2025

Tgt Ion: 83 Resp: 862
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 0.0 32.2 96.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.735 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL043015.D
Acq: 24 Sep 2025 19:49

Tgt Ion: 95 Resp: 272338
Ion Ratio Lower Upper
95 100
174 72.4 51.4 77.2
175 5.3 4.0 6.0

