

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040439.D
 Acq On : 16 May 2023 15:39
 Operator : SY/MD
 Sample : VL0516ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABL01

Quant Time: May 17 05:14:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 17 05:12:40 2023
 Response via : Initial Calibration

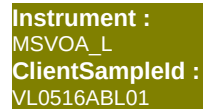
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

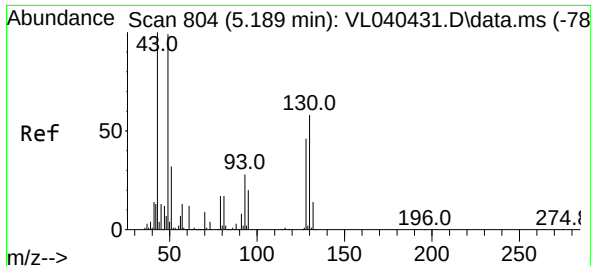
Internal Standards						
1) Bromochloromethane	5.205	49	1035473	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2506893	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.490	117	2200271	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1725830	9.755	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	7919	0.039	ppbv #	85
3) Chlorodifluoromethane	2.677	51	4571	0.034	ppbv	98
4) Chloromethane	2.819	50	3974	0.048	ppbv #	73
7) Chloroethane	3.205	64	829	0.032	ppbv #	69
8) Dichlorotetrafluoroethane	2.857	85	7006	0.038	ppbv	99
9) Propene	2.703	41	6413	0.123	ppbv	86
12) 1,1,2-Trichlorotrifluo...	4.076	101	4116	0.031	ppbv #	67
13) Ethanol	3.272	45	434	0.110	ppbv #	58
15) Acetone	3.500	43	21069	0.161	ppbv #	85
16) 1,3-Butadiene	2.989	39	1917	0.032	ppbv #	80
18) 1,1-Dichloroethene	3.886	96	2065	0.035	ppbv #	63
20) Methylene Chloride	3.938	84	10228	0.175	ppbv	90
39) 1,2-Dichloropropane	6.668	63	654850	8.211	ppbv #	22

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

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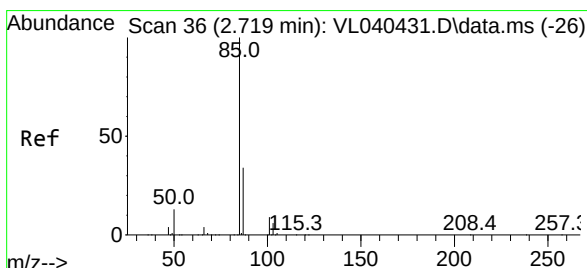
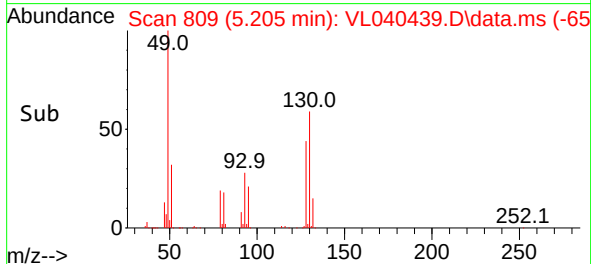
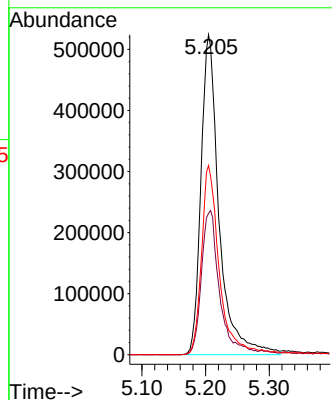
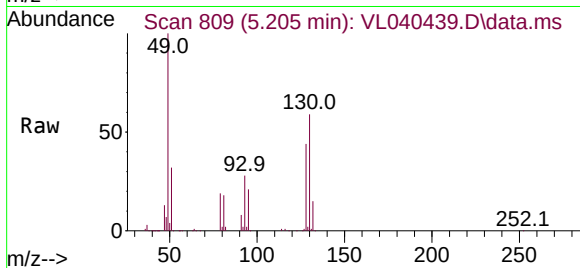




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL040439.D
 Acq: 16 May 2023 15:39

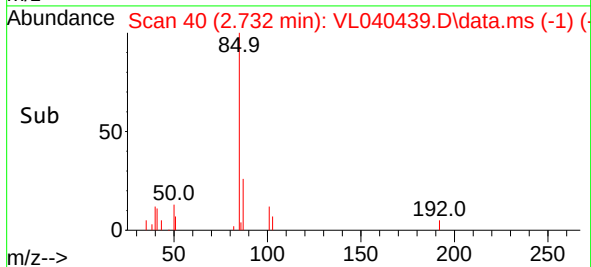
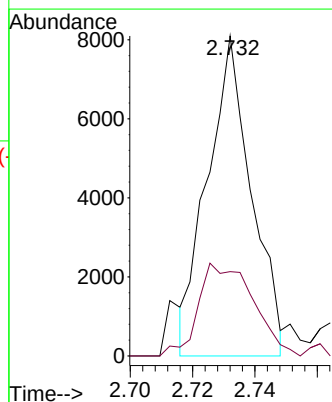
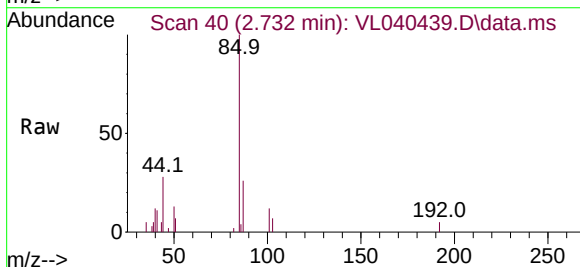
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABL01

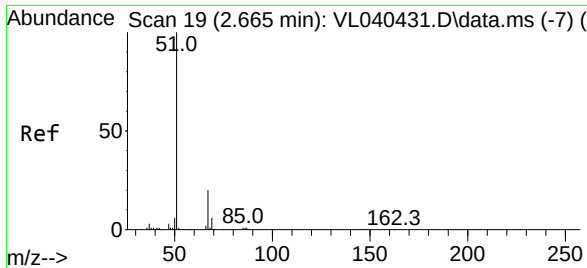
Tgt Ion: 49 Resp: 1035473
 Ion Ratio Lower Upper
 49 100
 128 46.4 24.3 72.8
 130 59.6 30.2 90.6



#2
 Dichlorodifluoromethane
 Concen: 0.039 ppbv
 RT: 2.732 min Scan# 40
 Delta R.T. 0.003 min
 Lab File: VL040439.D
 Acq: 16 May 2023 15:39

Tgt Ion: 85 Resp: 7919
 Ion Ratio Lower Upper
 85 100
 87 25.6 27.4 41.0#

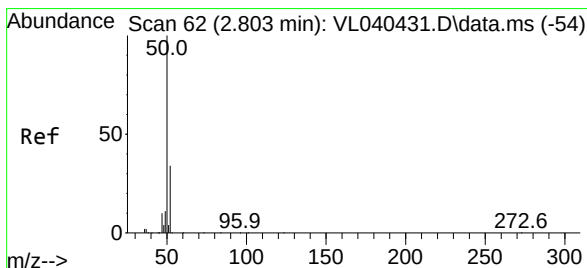
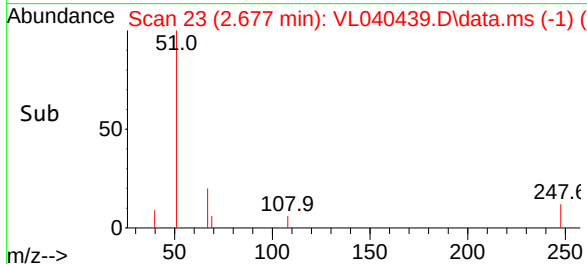
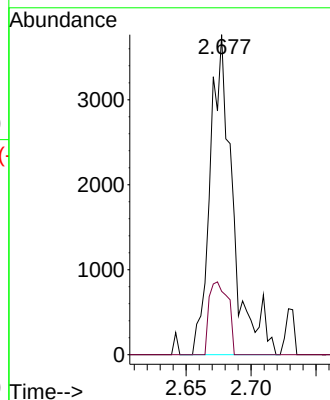
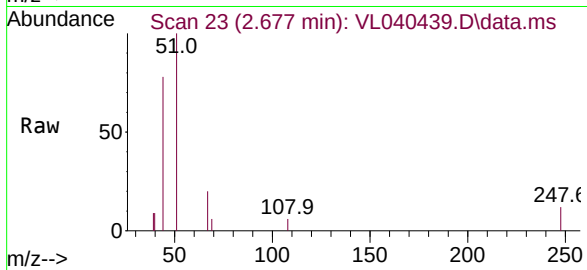




#3
Chlorodifluoromethane
Concen: 0.034 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

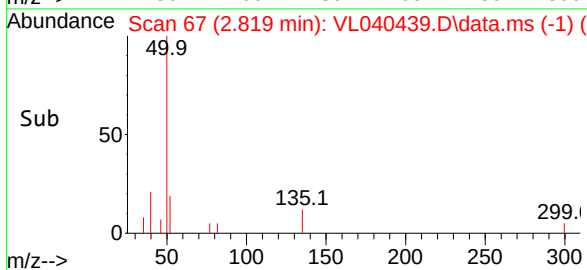
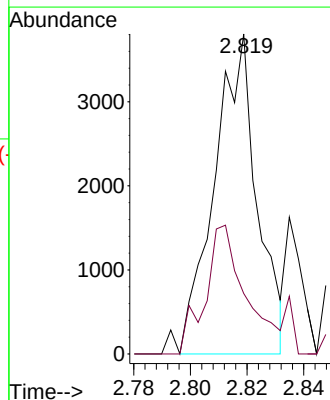
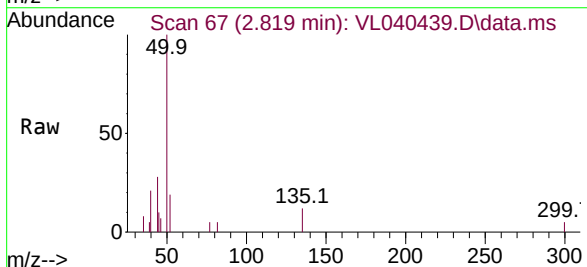
Instrument :
MSVOA_L
ClientSampleId :
VL0516ABL01

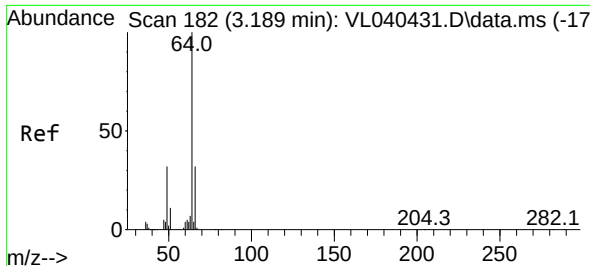
Tgt Ion: 51 Resp: 4571
Ion Ratio Lower Upper
51 100
67 18.8 15.8 23.6



#4
Chloromethane
Concen: 0.048 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.006 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

Tgt Ion: 50 Resp: 3974
Ion Ratio Lower Upper
50 100
52 18.9 27.6 41.4#

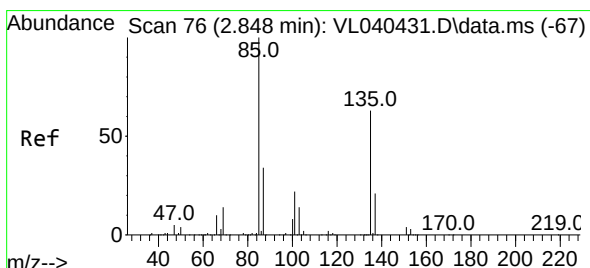
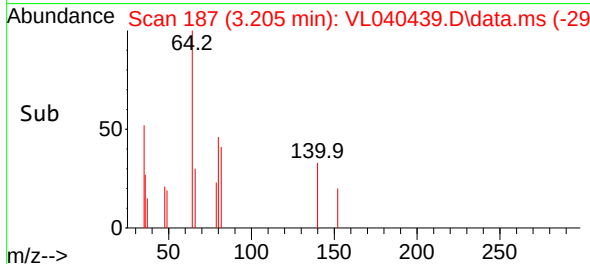
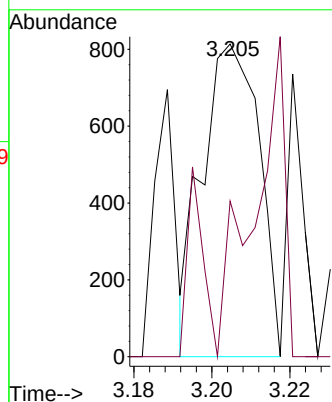
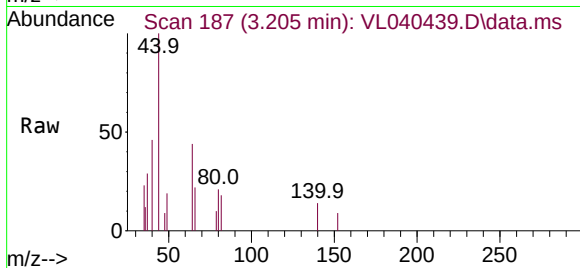




#7
Chloroethane
Concen: 0.032 ppbv
RT: 3.205 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

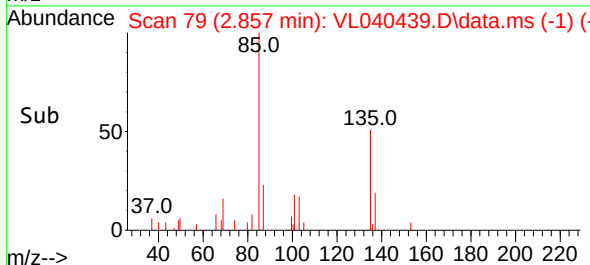
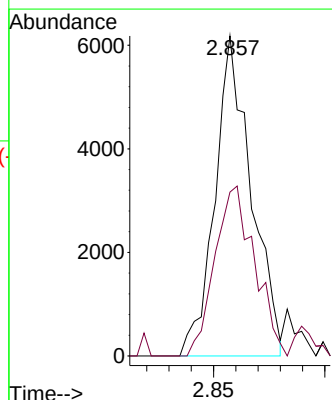
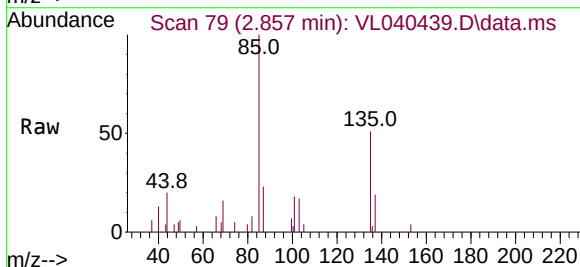
Instrument :
MSVOA_L
ClientSampleId :
VL0516ABL01

Tgt Ion: 64 Resp: 829
Ion Ratio Lower Upper
64 100
66 49.8 25.8 38.8#

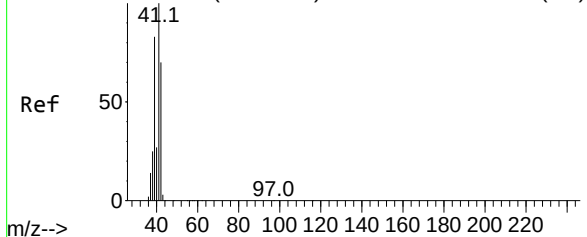


#8
Dichlorotetrafluoroethane
Concen: 0.038 ppbv
RT: 2.857 min Scan# 79
Delta R.T. 0.000 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

Tgt Ion: 85 Resp: 7006
Ion Ratio Lower Upper
85 100
135 64.2 50.6 75.8



Abundance Scan 25 (2.684 min): VL040431.D\data.ms (-15)



#9

Propene

Concen: 0.123 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL040439.D

Acq: 16 May 2023 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABL01

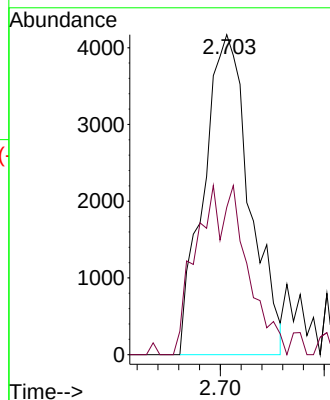
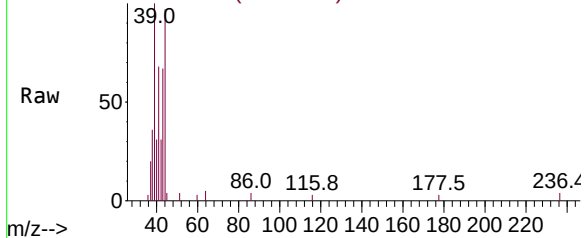
Tgt Ion: 41 Resp: 6413

Ion Ratio Lower Upper

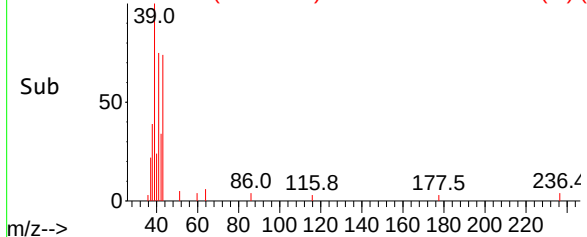
41 100

42 59.5 56.6 84.8

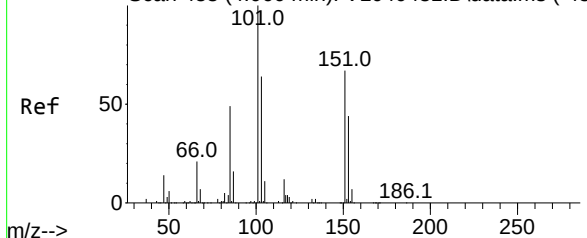
Abundance Scan 31 (2.703 min): VL040439.D\data.ms



Abundance Scan 31 (2.703 min): VL040439.D\data.ms (-1)



Abundance Scan 453 (4.060 min): VL040431.D\data.ms (-43)



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.076 min Scan# 458

Delta R.T. 0.003 min

Lab File: VL040439.D

Acq: 16 May 2023 15:39

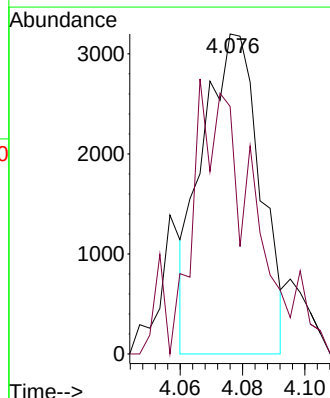
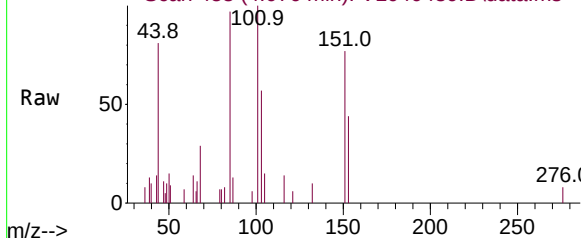
Tgt Ion: 101 Resp: 4116

Ion Ratio Lower Upper

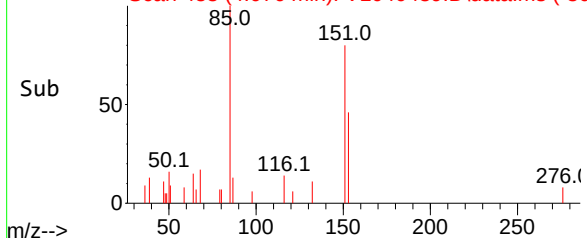
101 100

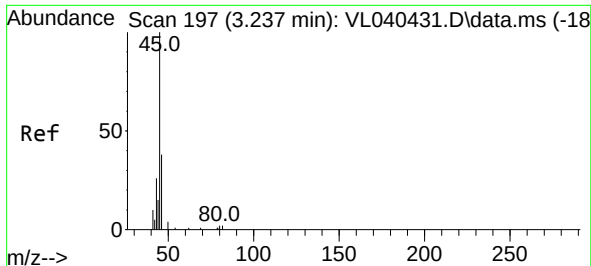
151 93.4 53.8 80.6#

Abundance Scan 458 (4.076 min): VL040439.D\data.ms



Abundance Scan 458 (4.076 min): VL040439.D\data.ms (-30)

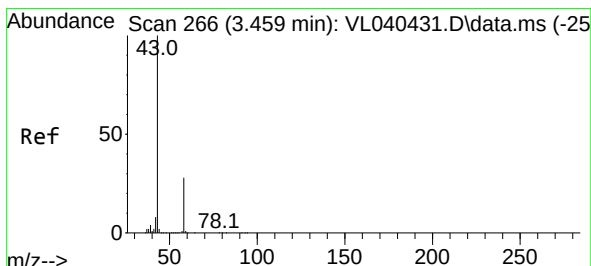
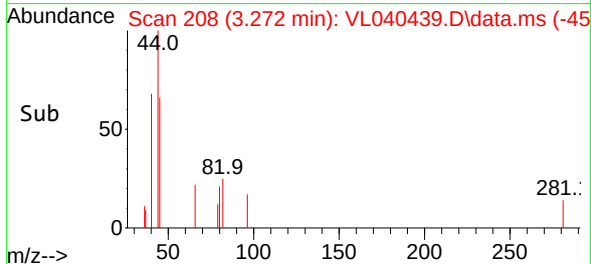
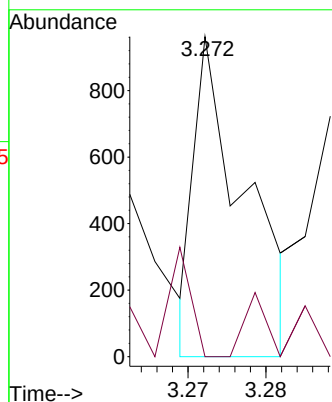
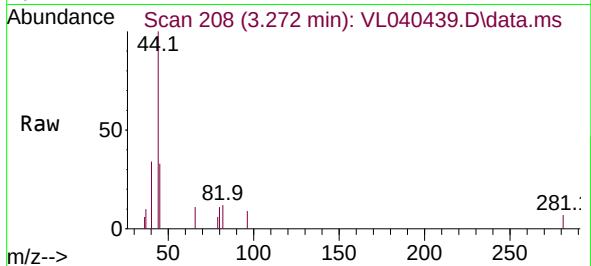




#13
 Ethanol
 Concen: 0.110 ppbv
 RT: 3.272 min Scan# 208
 Delta R.T. 0.023 min
 Lab File: VL040439.D
 Acq: 16 May 2023 15:39

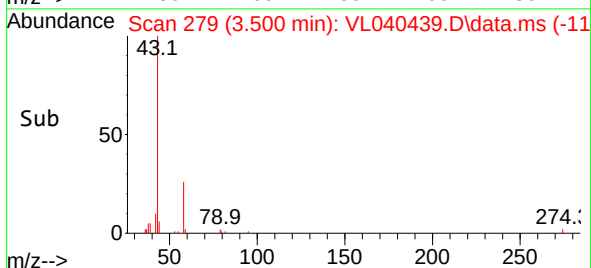
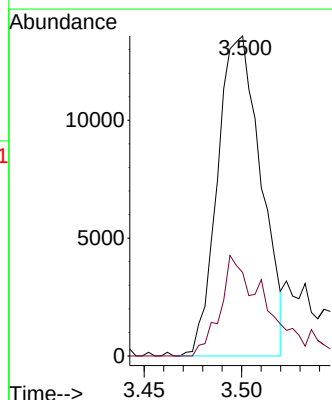
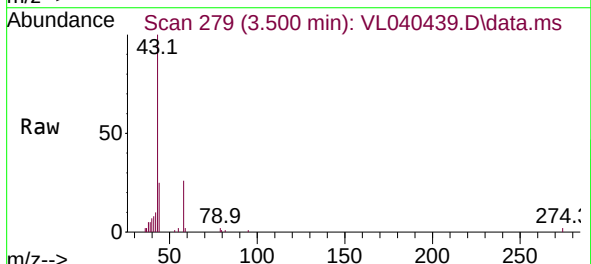
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0516ABL01

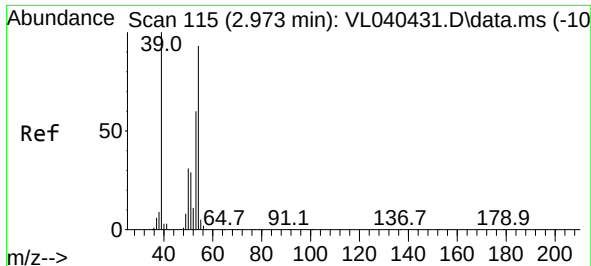
Tgt Ion: 45 Resp: 434
 Ion Ratio Lower Upper
 45 100
 46 56.9 13.2 52.8#



#15
 Acetone
 Concen: 0.161 ppbv
 RT: 3.500 min Scan# 279
 Delta R.T. 0.032 min
 Lab File: VL040439.D
 Acq: 16 May 2023 15:39

Tgt Ion: 43 Resp: 21069
 Ion Ratio Lower Upper
 43 100
 58 35.8 22.2 33.4#

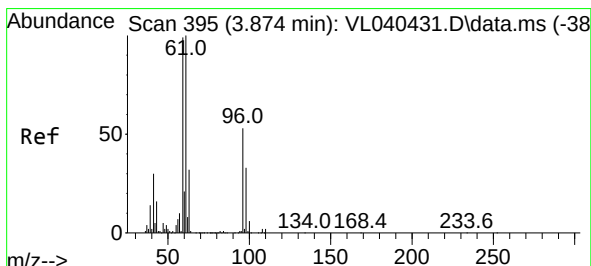
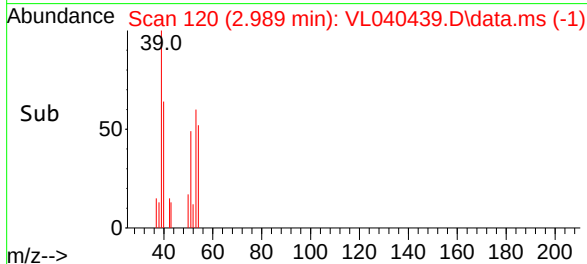
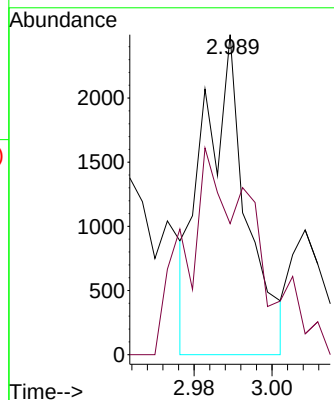
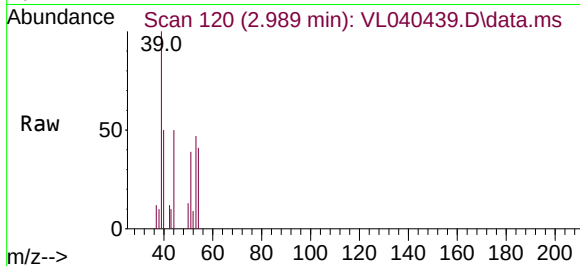




#16
1,3-Butadiene
Concen: 0.032 ppbv
RT: 2.989 min Scan# 115
Delta R.T. 0.003 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

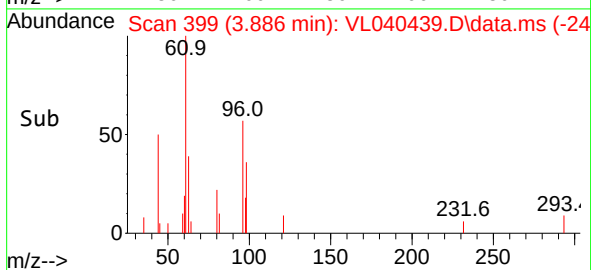
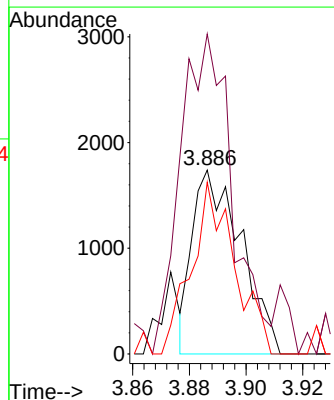
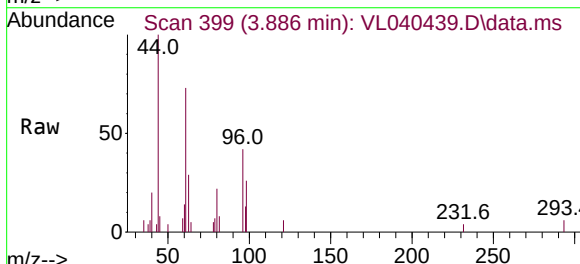
Instrument :
MSVOA_L
ClientSampleId :
VL0516ABL01

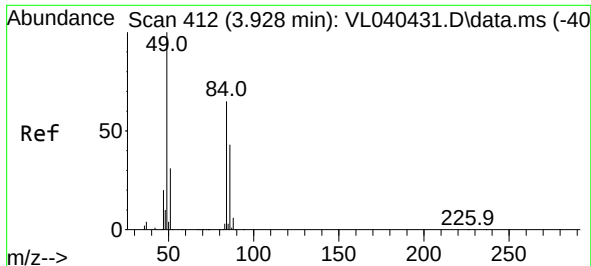
Tgt Ion: 39 Resp: 1917
Ion Ratio Lower Upper
39 100
54 104.2 68.9 103.3#



#18
1,1-Dichloroethene
Concen: 0.035 ppbv
RT: 3.886 min Scan# 399
Delta R.T. 0.000 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

Tgt Ion: 96 Resp: 2065
Ion Ratio Lower Upper
96 100
61 136.5 151.8 227.8#
98 93.4 50.5 75.7#



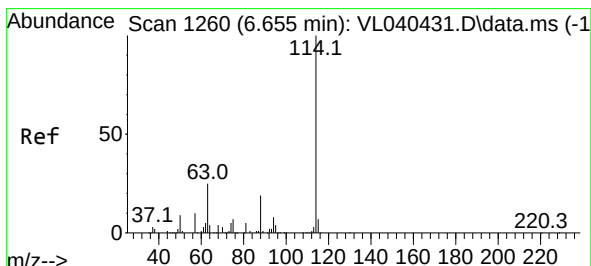
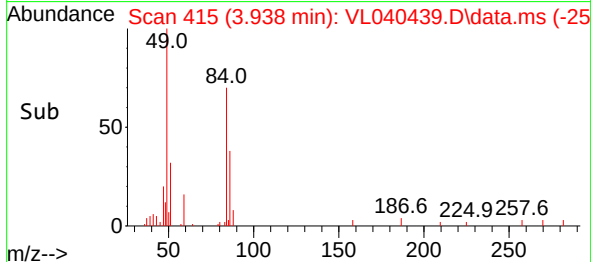
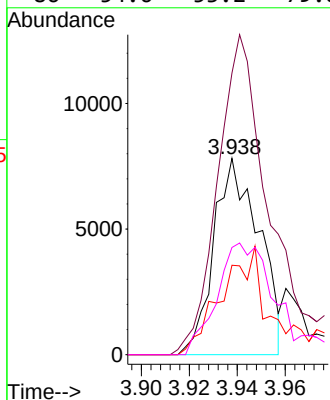
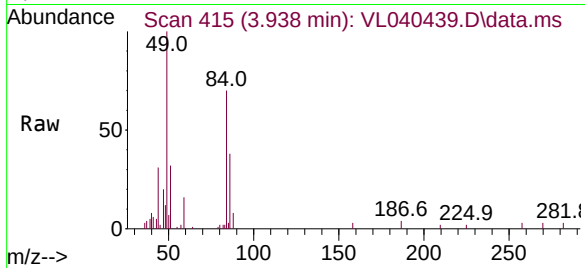


#20
Methylene Chloride
Concen: 0.175 ppbv
RT: 3.938 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABL01

Tgt Ion: 84 Resp: 10228

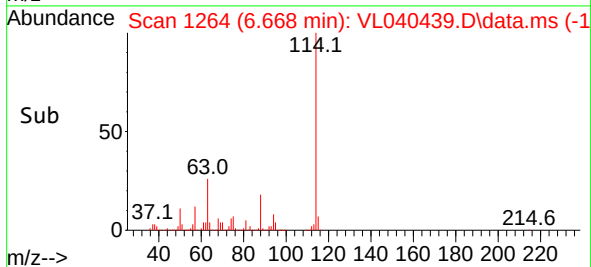
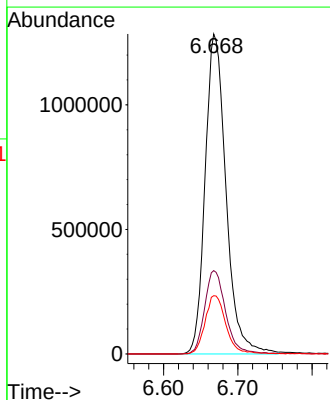
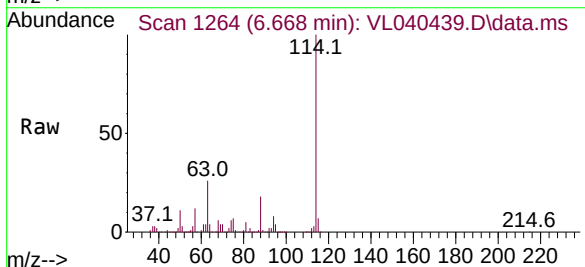
Ion	Ratio	Lower	Upper
84	100		
49	140.8	123.7	185.5
51	45.6	38.6	57.8
86	54.6	53.2	79.8

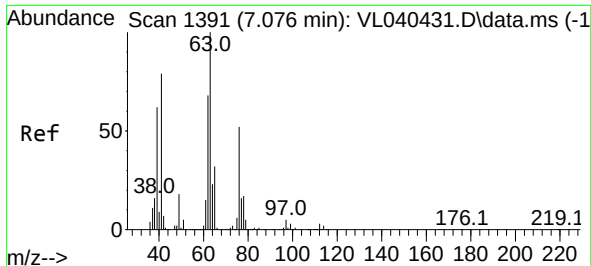


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. -0.003 min
Lab File: VL040439.D
Acq: 16 May 2023 15:39

Tgt Ion: 114 Resp: 2506893

Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.0	31.6
88	18.3	14.6	22.0





#39

1,2-Dichloropropane

Concen: 8.211 ppbv

RT: 6.668 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL040439.D

Acq: 16 May 2023 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABL01

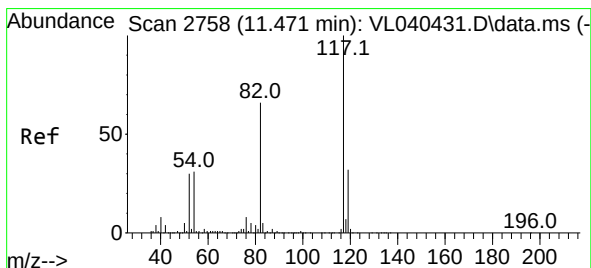
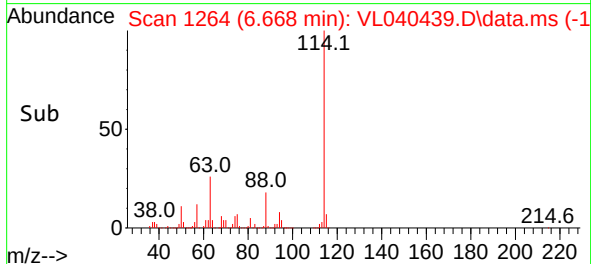
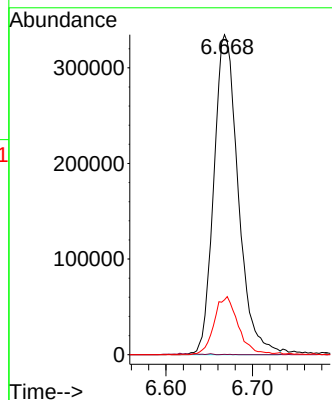
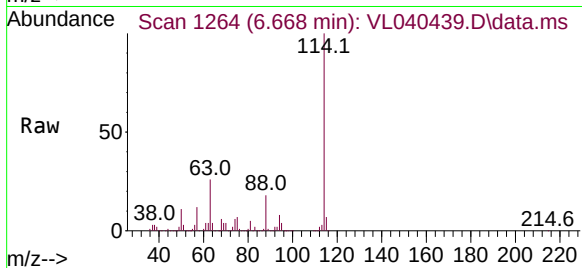
Tgt Ion: 63 Resp: 654850

Ion Ratio Lower Upper

63 100

41 0.1 63.3 94.9#

62 17.1 54.2 81.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.490 min Scan# 2764

Delta R.T. 0.000 min

Lab File: VL040439.D

Acq: 16 May 2023 15:39

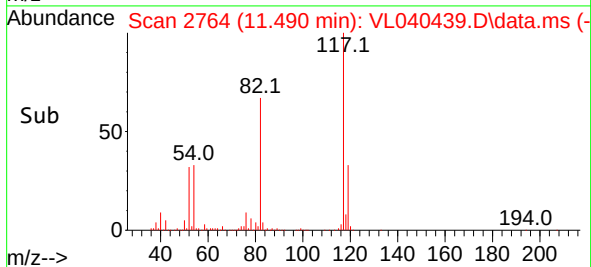
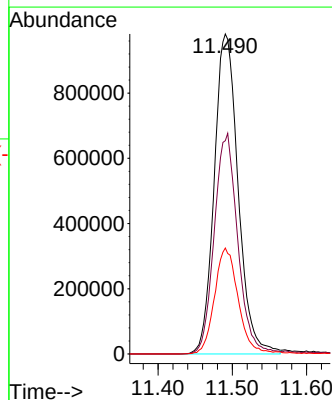
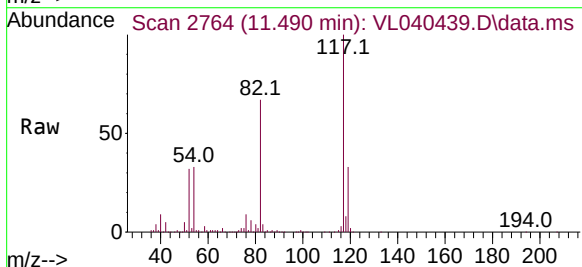
Tgt Ion: 117 Resp: 2200271

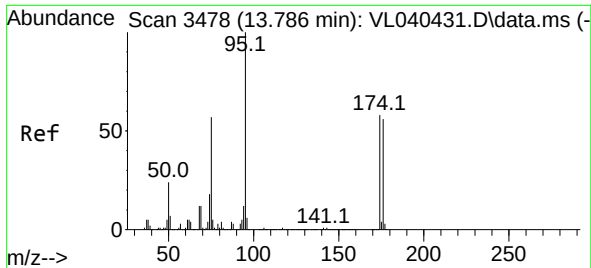
Ion Ratio Lower Upper

117 100

82 69.0 52.5 78.7

119 33.0 24.0 36.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.755 ppbv
 RT: 13.802 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL040439.D
 Acq: 16 May 2023 15:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABL01

Tgt Ion: 95 Resp: 1725830
 Ion Ratio Lower Upper
 95 100
 174 60.1 47.0 70.6
 175 4.2 3.4 5.0

