

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040490.D
 Acq On : 22 Jun 2023 18:04
 Operator : SY/MD
 Sample : 03300-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AO-1

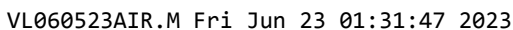
Quant Time: Jun 23 01:31:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

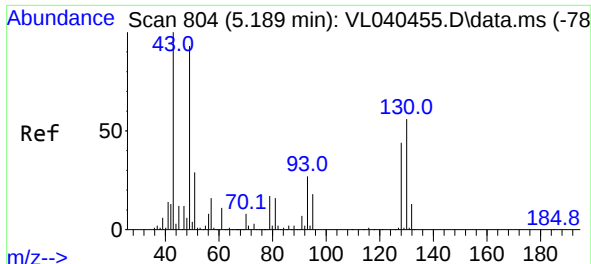
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.182	49	868043	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2215166	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.452	117	1972119	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1487062	9.136	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	83400	0.441	ppbv	99
3) Chlorodifluoromethane	2.668	51	100001	0.703	ppbv #	80
4) Chloromethane	2.809	50	34045	0.619	ppbv	98
9) Propene	2.867	41	70810	1.615	ppbv	91
11) Trichlorofluoromethane	3.555	101	35185	0.229	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.060	101	8943	0.083	ppbv	93
13) Ethanol	3.231	45	291495	32.107	ppbv	100
15) Acetone	3.459	43	683158	6.525	ppbv	98
16) 1,3-Butadiene	2.960	39	8623	0.169	ppbv #	8
19) Isopropyl Alcohol	3.575	45	152203	3.016	ppbv #	89
20) Methylene Chloride	3.925	84	767678	17.180	ppbv	98
23) Vinyl Acetate	4.607	43	15377	0.150	ppbv #	77
25) Ethyl Acetate	5.202	43	370980	1.955	ppbv #	79
26) Hexane	5.202	57	522290	5.814	ppbv #	44
29) Chloroform	5.263	83	19084	0.125	ppbv #	82
34) 2-Butanone	4.780	43	32995	0.309	ppbv	91
35) Carbon Tetrachloride	6.481	117	7532	0.050	ppbv #	78
36) Benzene	6.356	78	57983	0.329	ppbv	99
39) 1,2-Dichloropropane	6.639	63	565475	8.325	ppbv #	21
41) Tetrahydrofuran	5.202	42	201592	3.453	ppbv #	47
44) 2,2,4-Trimethylpentane	7.317	57	50661	0.176	ppbv #	77
53) Toluene	9.208	91	104631	0.564	ppbv	97
58) Ethyl Benzene	12.073	91	8096	0.034	ppbv	91

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

Quant Time: Jun 23 01:31:42 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jun 06 06:22:12 2023
Response via : Initial Calibration

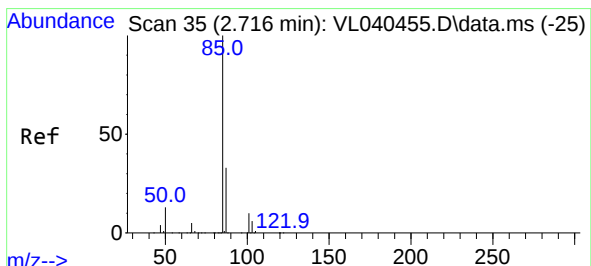
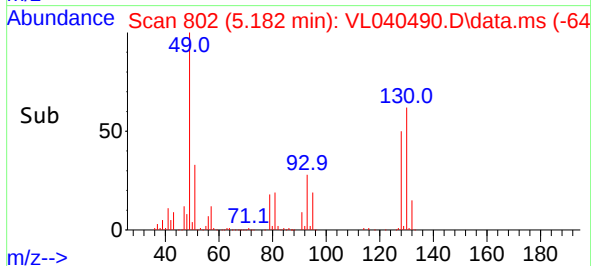
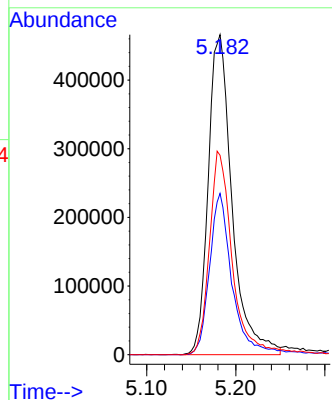
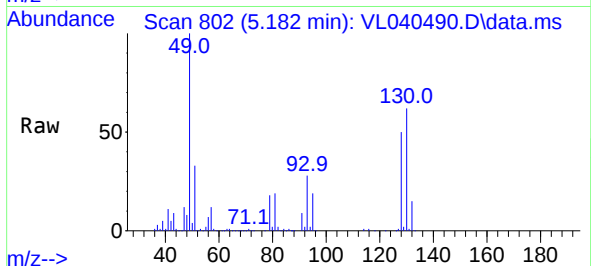




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

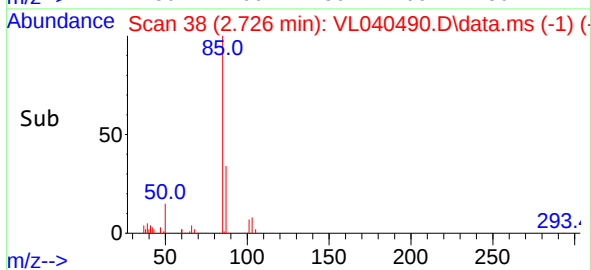
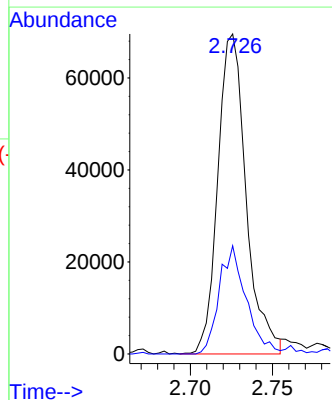
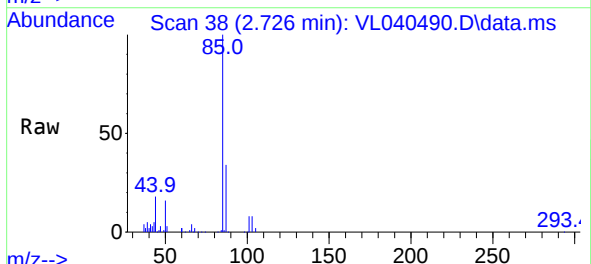
Instrument :
MSVOA_L
ClientSampleId :
AO-1

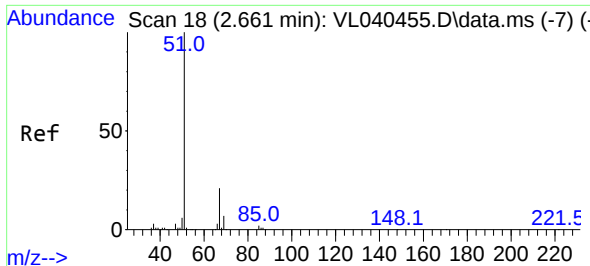
Tgt Ion: 49 Resp: 868043
Ion Ratio Lower Upper
49 100
128 48.1 24.7 74.1
130 62.2 31.4 94.2



#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 85 Resp: 83400
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8

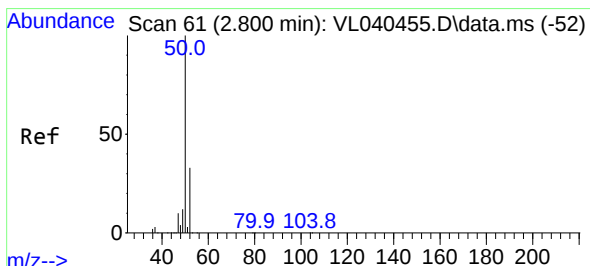
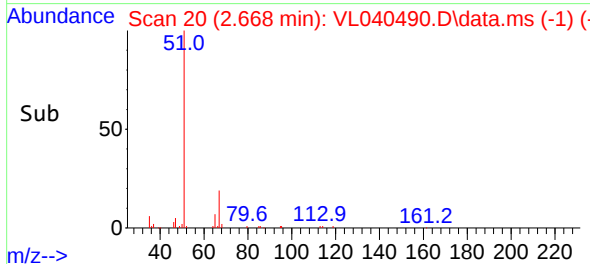
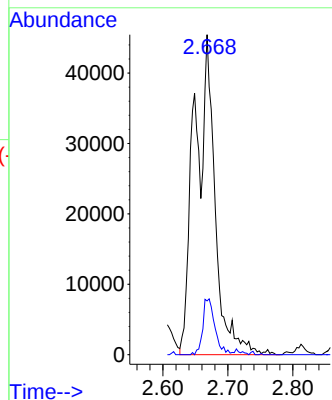
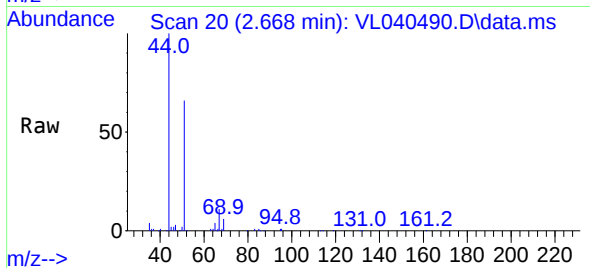




#3
Chlorodifluoromethane
Concen: 0.703 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.007 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

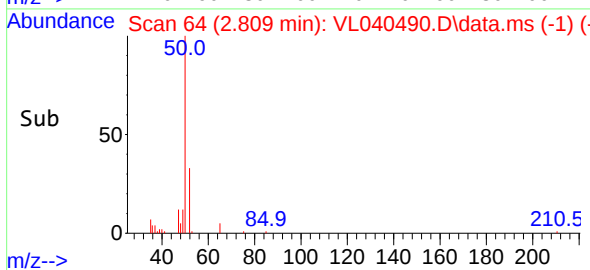
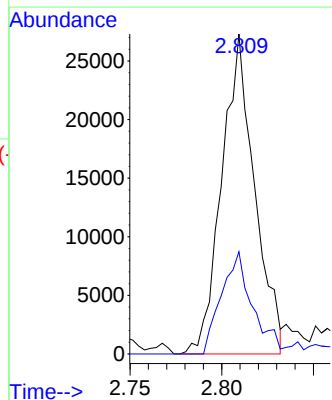
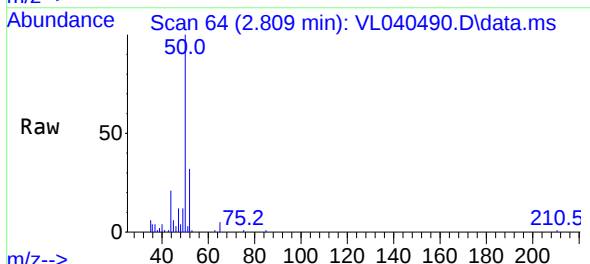
Instrument :
MSVOA_L
ClientSampleId :
AO-1

Tgt Ion: 51 Resp: 100001
Ion Ratio Lower Upper
51 100
67 11.0 16.3 24.5#

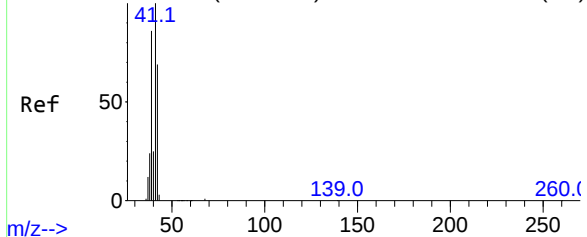


#4
Chloromethane
Concen: 0.619 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.010 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 50 Resp: 34045
Ion Ratio Lower Upper
50 100
52 32.0 26.3 39.5



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 1.615 ppbv

RT: 2.867 min Scan# 81

Delta R.T. 0.190 min

Lab File: VL040490.D

Acq: 22 Jun 2023 18:04

Instrument :

MSVOA_L

ClientSampleId :

AO-1

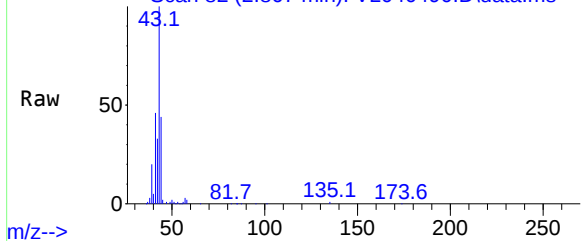
Tgt Ion: 41 Resp: 70810

Ion Ratio Lower Upper

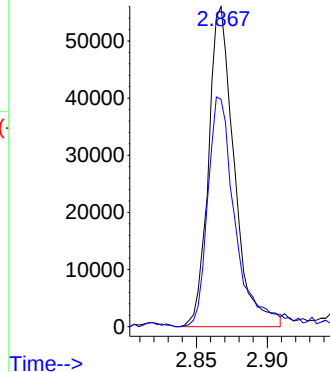
41 100

42 77.9 56.2 84.2

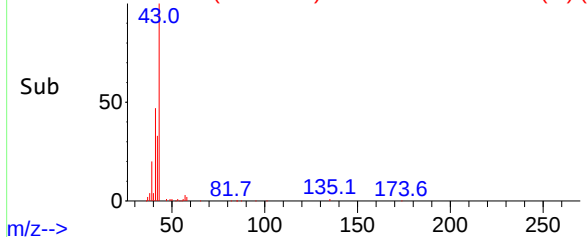
Abundance Scan 82 (2.867 min): VL040490.D\data.ms



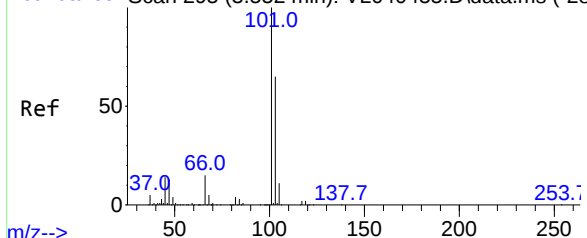
Abundance



Abundance Scan 82 (2.867 min): VL040490.D\data.ms (-1)



Abundance Scan 295 (3.552 min): VL040455.D\data.ms (-28)



#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.003 min

Lab File: VL040490.D

Acq: 22 Jun 2023 18:04

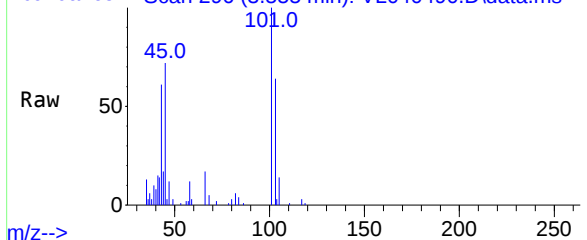
Tgt Ion: 101 Resp: 35185

Ion Ratio Lower Upper

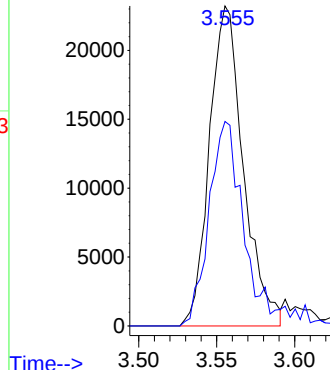
101 100

103 63.9 51.7 77.5

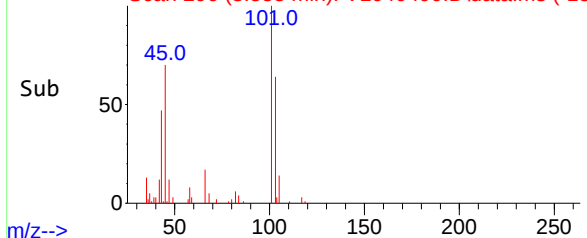
Abundance Scan 296 (3.555 min): VL040490.D\data.ms

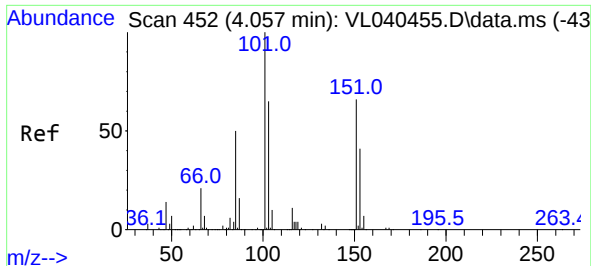


Abundance



Abundance Scan 296 (3.555 min): VL040490.D\data.ms (-13)

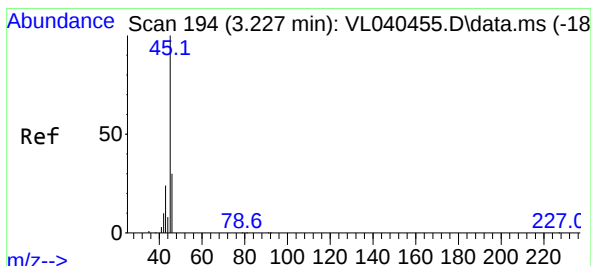
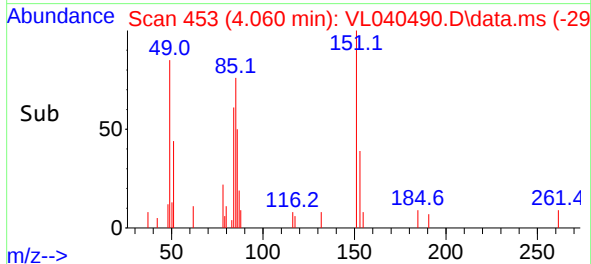
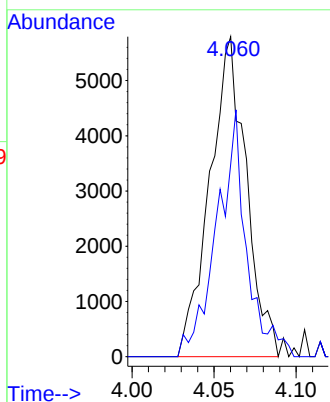
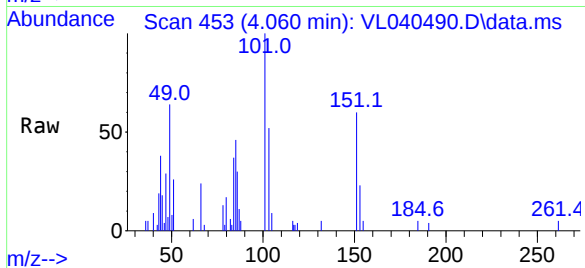




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.083 ppbv
RT: 4.060 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

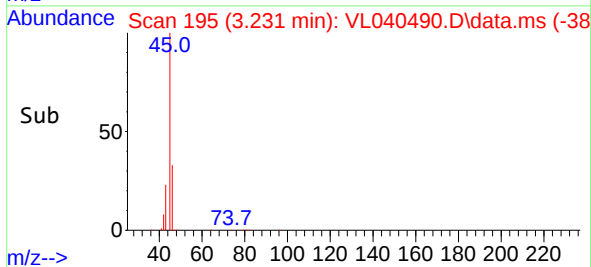
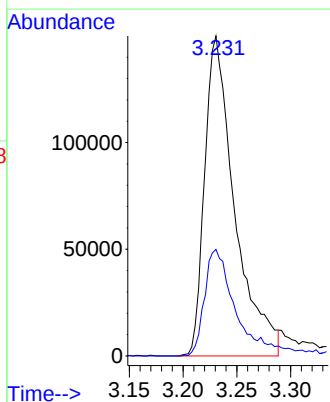
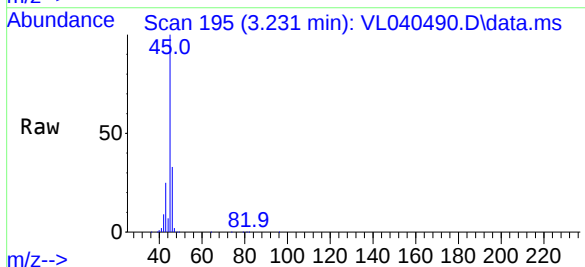
Instrument :
MSVOA_1
ClientSampleId :
AO-1

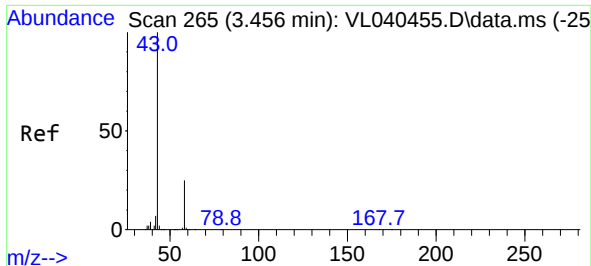
Tgt Ion:101 Resp: 8943
Ion Ratio Lower Upper
101 100
151 62.6 54.3 81.5



#13
Ethanol
Concen: 32.107 ppbv
RT: 3.231 min Scan# 195
Delta R.T. 0.003 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 45 Resp: 291495
Ion Ratio Lower Upper
45 100
46 36.1 14.5 58.1





#15

Acetone

Concen: 6.525 ppbv

RT: 3.459 min Scan# 2

Delta R.T. 0.003 min

Lab File: VL040490.D

Acq: 22 Jun 2023 18:04

Instrument :

MSVOA_L

ClientSampleId :

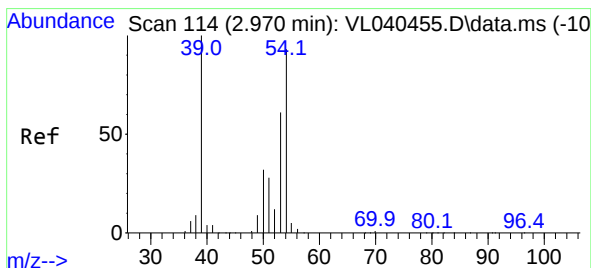
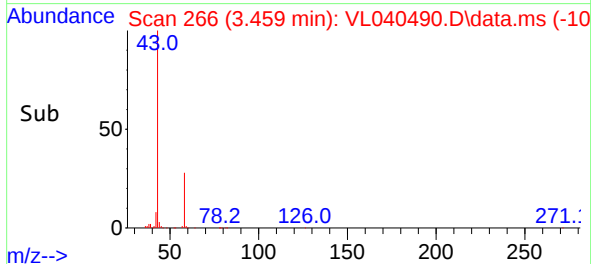
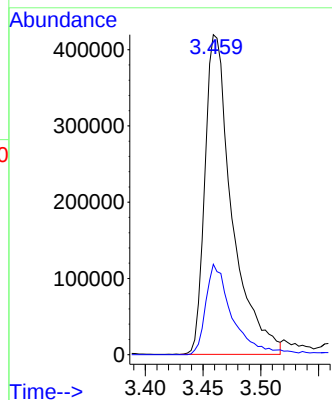
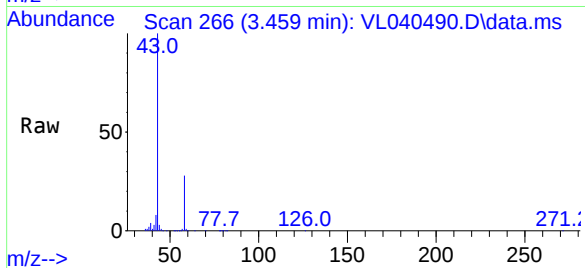
AO-1

Tgt Ion: 43 Resp: 683158

Ion Ratio Lower Upper

43 100

58 28.1 21.6 32.4



#16

1,3-Butadiene

Concen: 0.169 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.010 min

Lab File: VL040490.D

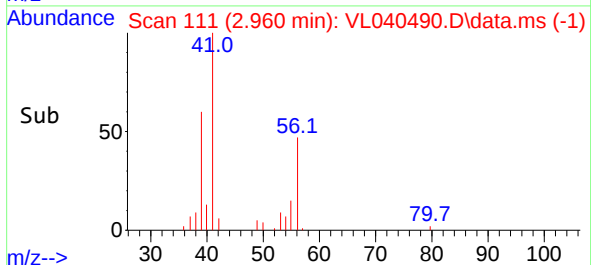
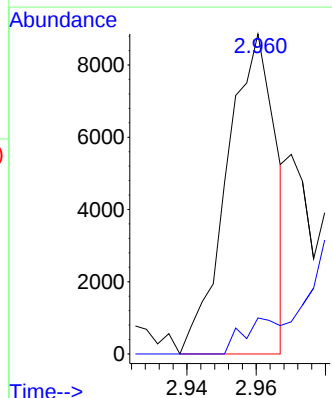
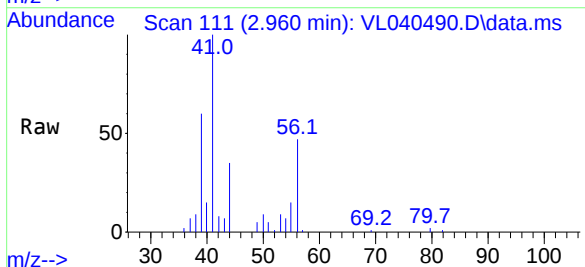
Acq: 22 Jun 2023 18:04

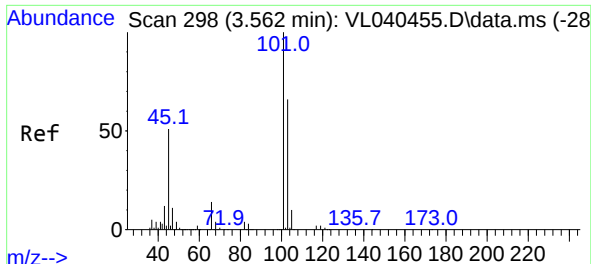
Tgt Ion: 39 Resp: 8623

Ion Ratio Lower Upper

39 100

54 0.0 66.9 100.3#

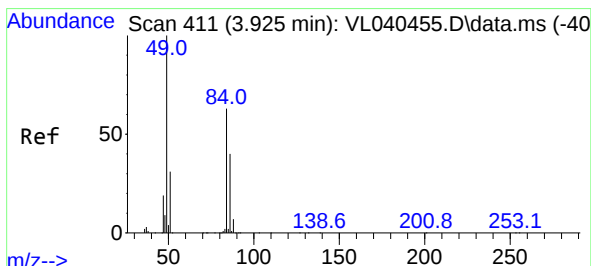
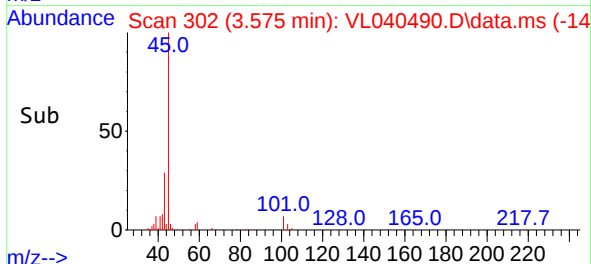
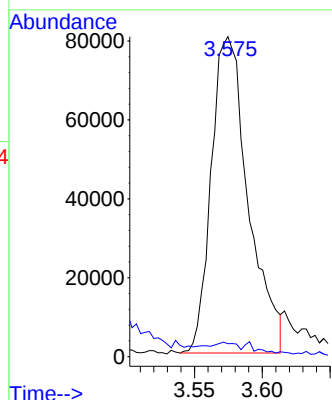
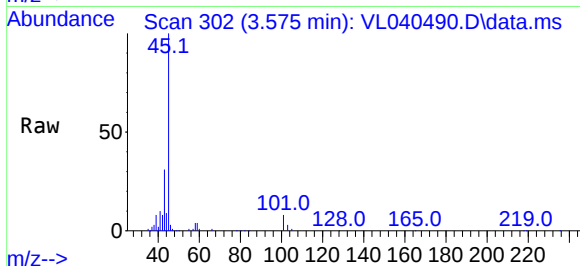




#19
Isopropyl Alcohol
Concen: 3.016 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.013 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

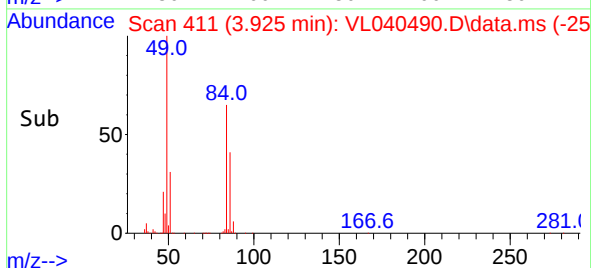
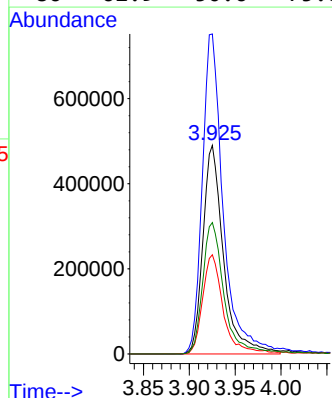
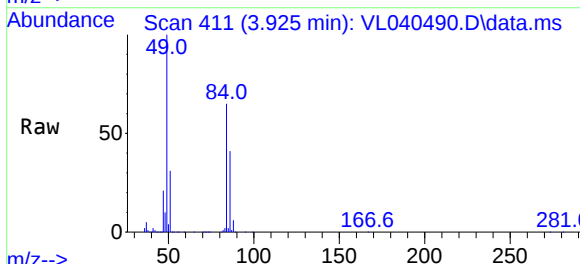
Instrument :
MSVOA_1
ClientSampleId :
AO-1

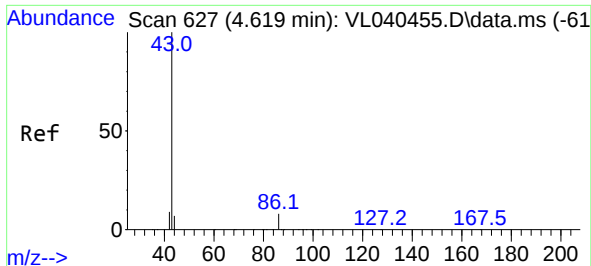
Tgt Ion: 45 Resp: 152203
Ion Ratio Lower Upper
45 100
58 6.9 2.6 4.0#



#20
Methylene Chloride
Concen: 17.180 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.000 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 84 Resp: 767678
Ion Ratio Lower Upper
84 100
49 153.4 126.2 189.2
51 47.4 38.7 58.1
86 62.9 50.6 75.8



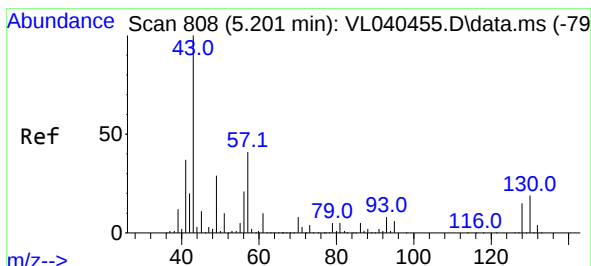
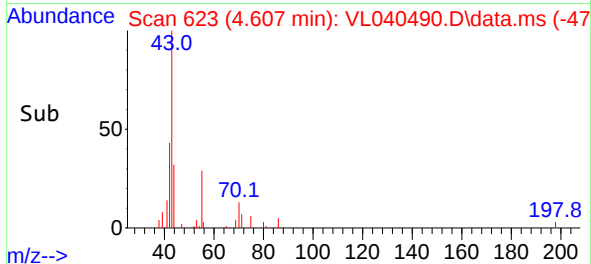
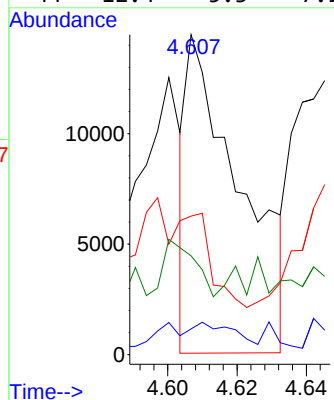
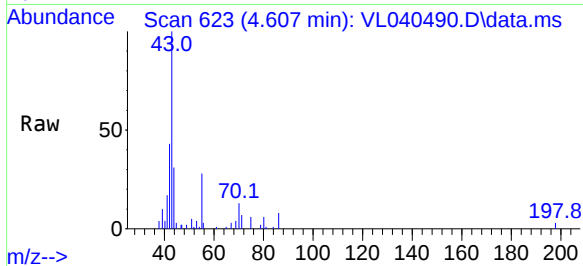


#23
 Vinyl Acetate
 Concen: 0.150 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL040490.D
 Acq: 22 Jun 2023 18:04

Instrument :
 MSVOA_1
 ClientSampleId :
 AO-1

Tgt Ion: 43 Resp: 15377

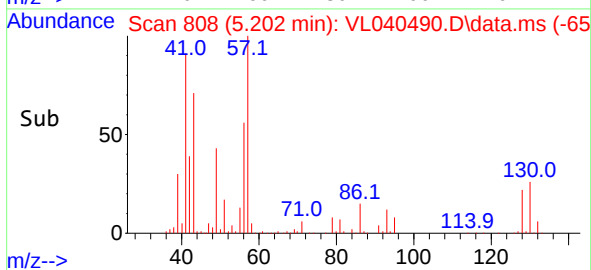
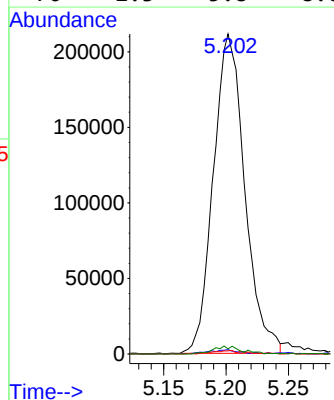
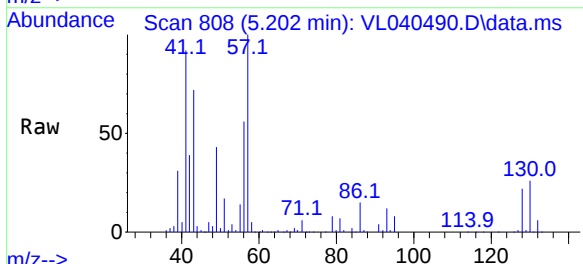
Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.8	8.6#
42	24.0	7.4	11.2#
44	12.4	5.3	7.9#

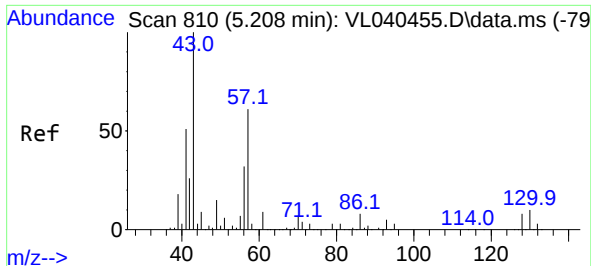


#25
 Ethyl Acetate
 Concen: 1.955 ppbv
 RT: 5.202 min Scan# 808
 Delta R.T. 0.000 min
 Lab File: VL040490.D
 Acq: 22 Jun 2023 18:04

Tgt Ion: 43 Resp: 370980

Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.0	12.0#
61	1.2	8.1	12.1#
70	2.3	5.8	8.6#

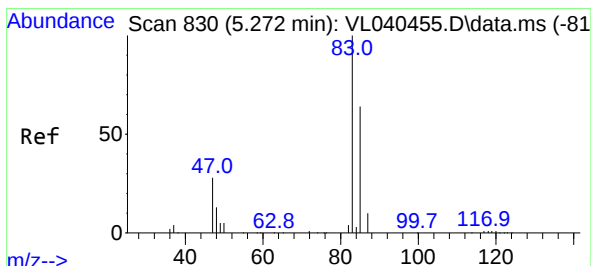
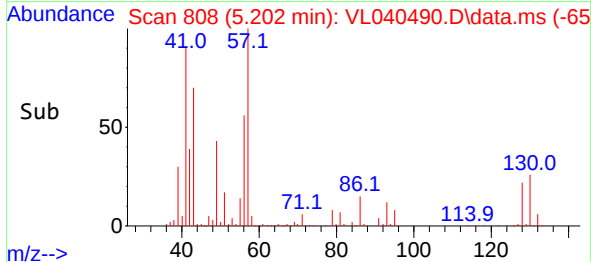
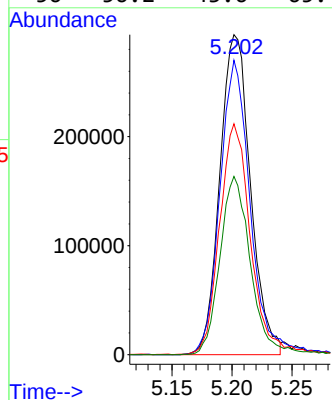
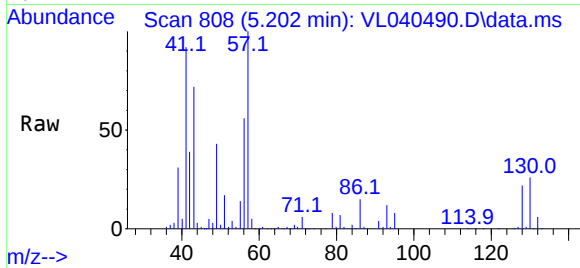




#26
Hexane
Concen: 5.814 ppbv
RT: 5.202 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

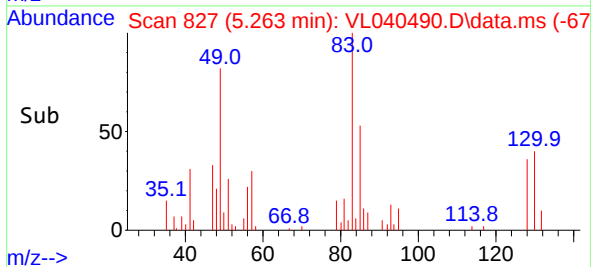
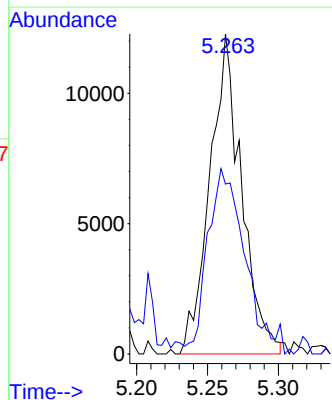
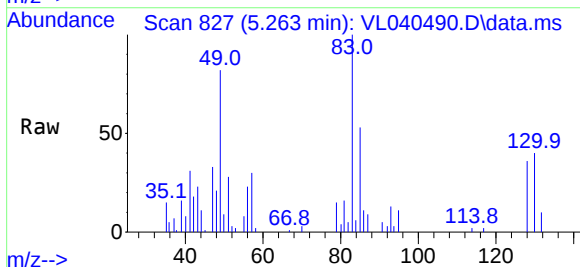
Instrument :
MSVOA_L
ClientSampleId :
AO-1

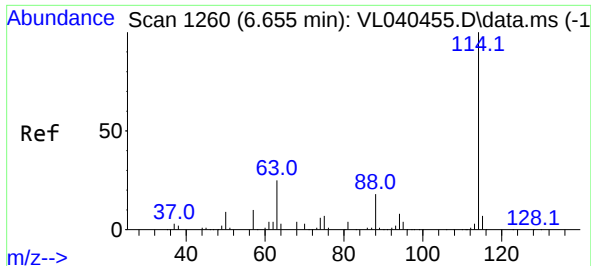
Tgt Ion: 57 Resp: 522290
Ion Ratio Lower Upper
57 100
41 92.1 73.0 109.6
43 73.2 177.5 266.3#
56 56.2 43.6 65.4



#29
Chloroform
Concen: 0.125 ppbv
RT: 5.263 min Scan# 827
Delta R.T. -0.010 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 83 Resp: 19084
Ion Ratio Lower Upper
83 100
85 49.6 51.1 76.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 114

Delta R.T. -0.013 min

Lab File: VL040490.D

Acq: 22 Jun 2023 18:04

Instrument :

MSVOA_L

ClientSampleId :

AO-1

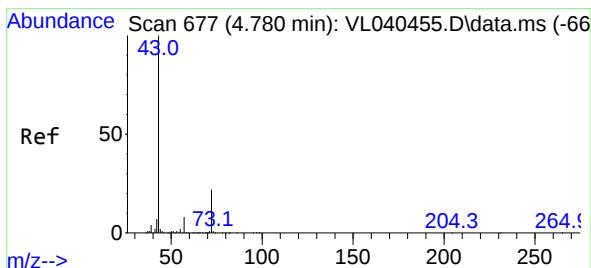
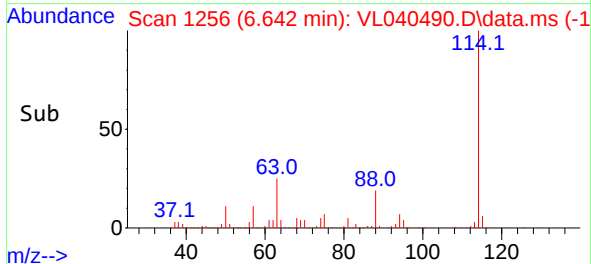
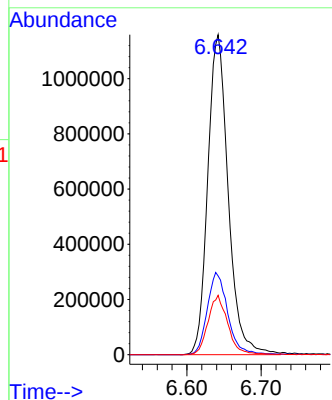
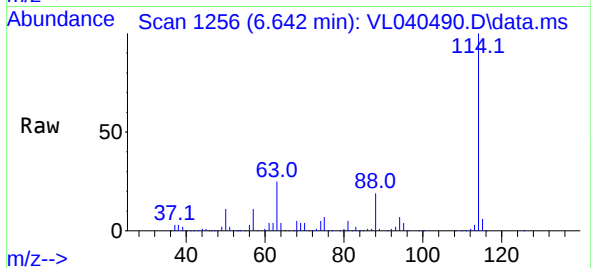
Tgt Ion:114 Resp: 2215166

Ion Ratio Lower Upper

114 100

63 26.0 21.0 31.6

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 0.309 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.000 min

Lab File: VL040490.D

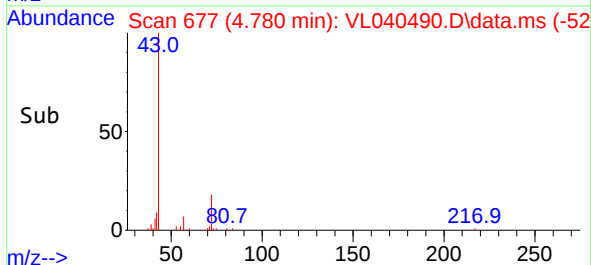
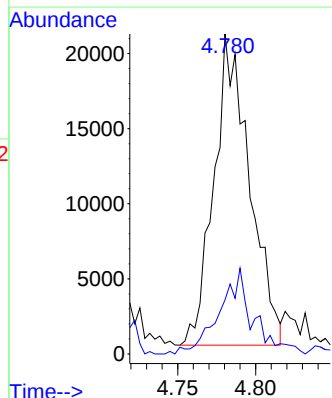
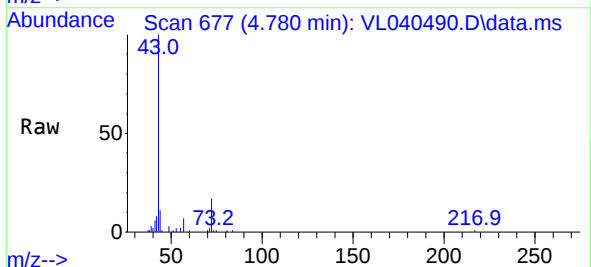
Acq: 22 Jun 2023 18:04

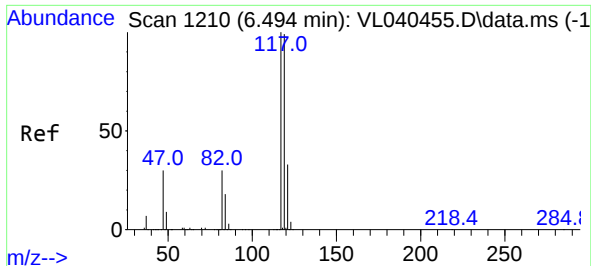
Tgt Ion: 43 Resp: 32995

Ion Ratio Lower Upper

43 100

72 26.8 18.1 27.1

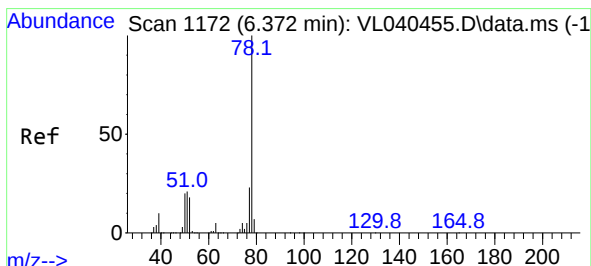
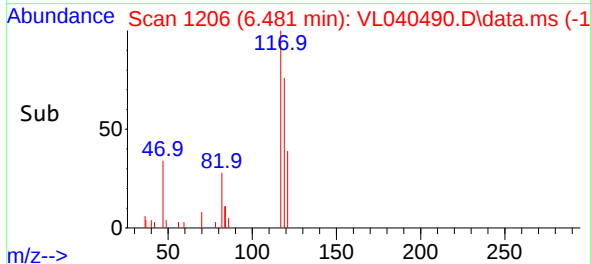
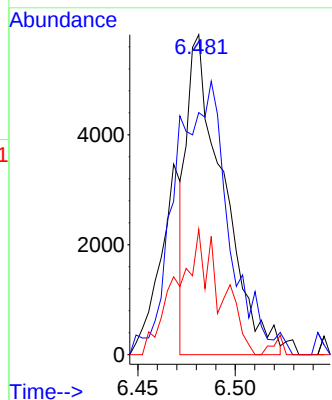
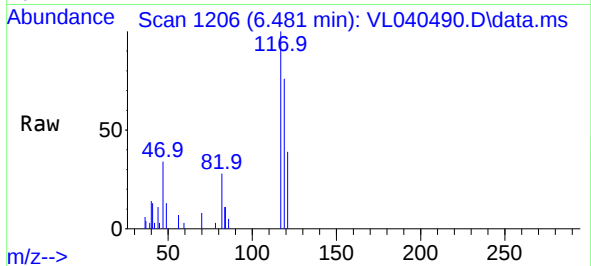




#35
Carbon Tetrachloride
Concen: 0.050 ppbv
RT: 6.481 min Scan# 1167
Delta R.T. -0.013 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

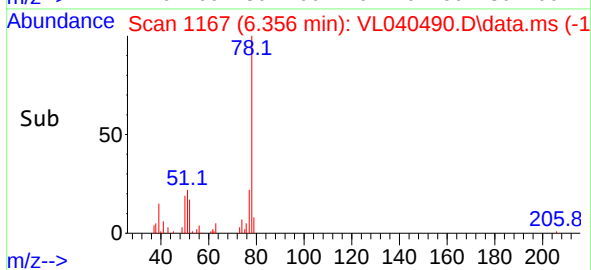
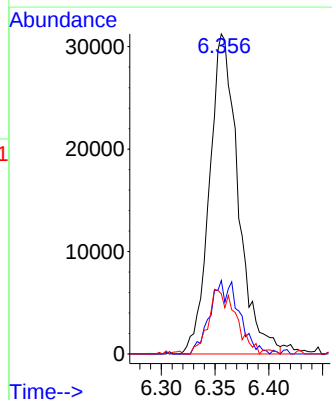
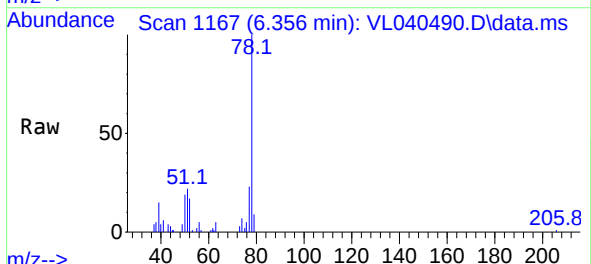
Instrument :
MSVOA_L
ClientSampleId :
AO-1

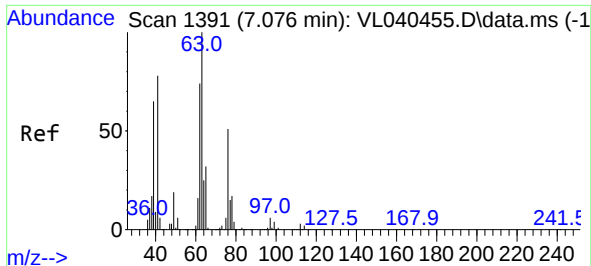
Tgt Ion:117 Resp: 7532
Ion Ratio Lower Upper
117 100
119 70.6 79.1 118.7#
121 34.0 26.0 39.0



#36
Benzene
Concen: 0.329 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 78 Resp: 57983
Ion Ratio Lower Upper
78 100
77 22.9 18.5 27.7
50 18.8 16.1 24.1





#39

1,2-Dichloropropane

Concen: 8.325 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.437 min

Lab File: VL040490.D

Acq: 22 Jun 2023 18:04

Instrument :

MSVOA_L

ClientSampleId :

AO-1

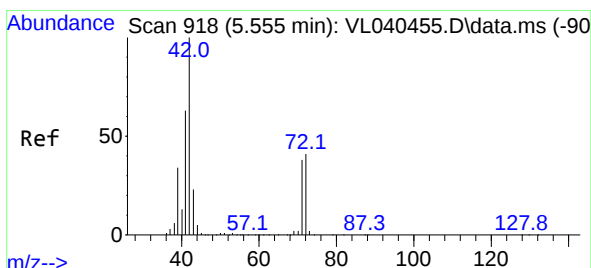
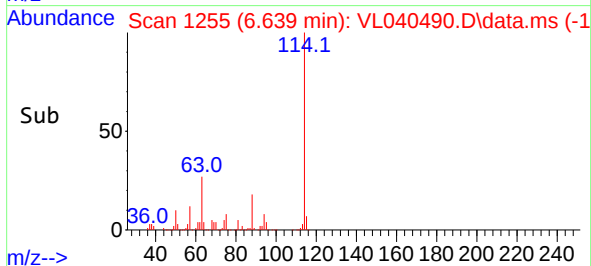
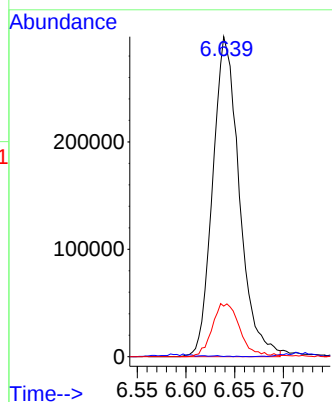
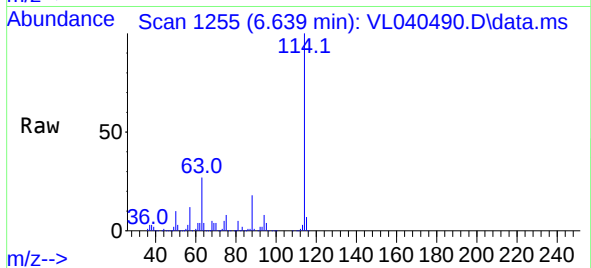
Tgt Ion: 63 Resp: 565475

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.2#

62 15.8 59.0 88.4#



#41

Tetrahydrofuran

Concen: 3.453 ppbv

RT: 5.202 min Scan# 808

Delta R.T. -0.354 min

Lab File: VL040490.D

Acq: 22 Jun 2023 18:04

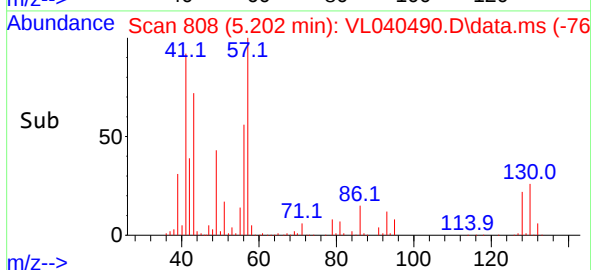
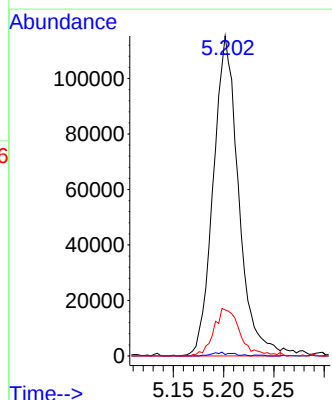
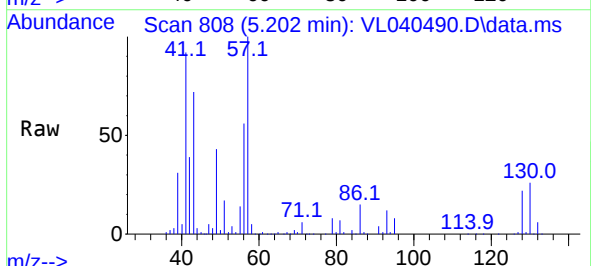
Tgt Ion: 42 Resp: 201592

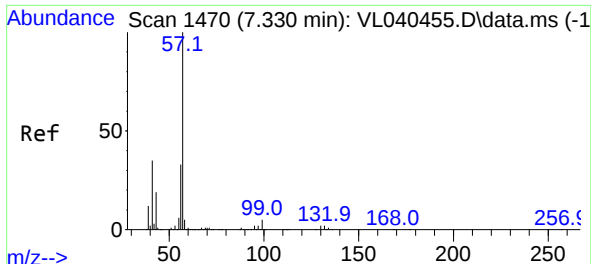
Ion Ratio Lower Upper

42 100

72 0.9 33.8 50.8#

71 15.4 32.3 48.5#

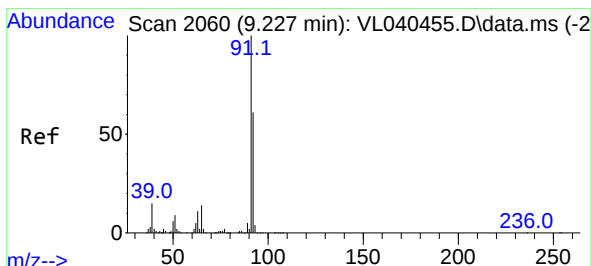
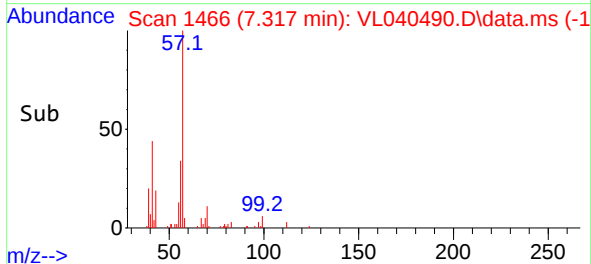
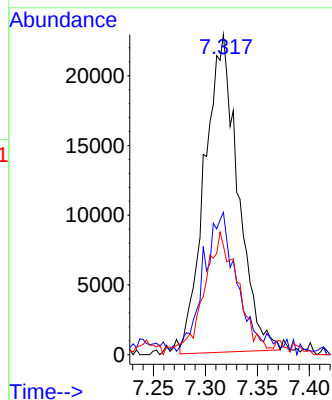
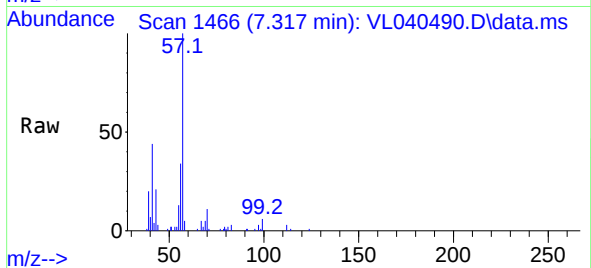




#44
2,2,4-Trimethylpentane
Concen: 0.176 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. -0.013 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

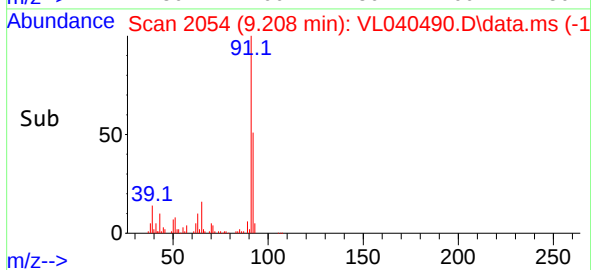
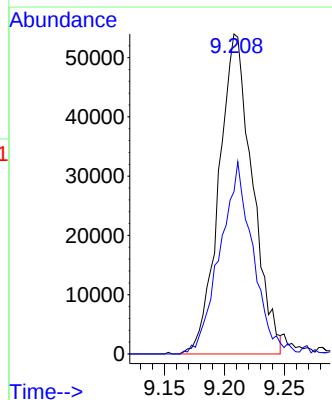
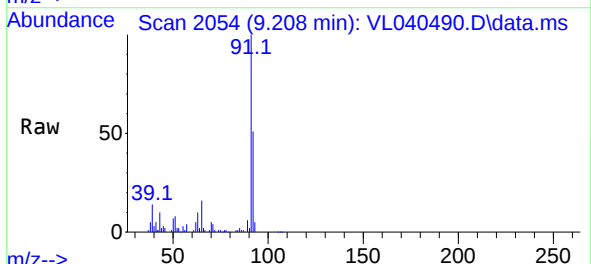
Instrument :
MSVOA_L
ClientSampleId :
AO-1

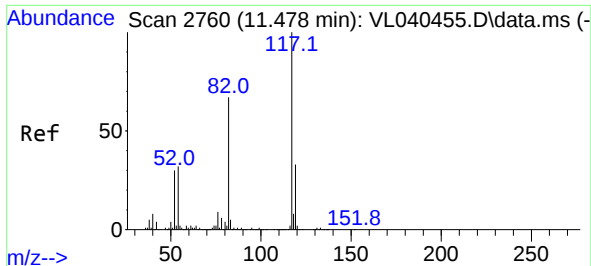
Tgt Ion: 57 Resp: 50661
Ion Ratio Lower Upper
57 100
41 49.5 27.8 41.8#
56 42.9 25.3 37.9#



#53
Toluene
Concen: 0.564 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.019 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

Tgt Ion: 91 Resp: 104631
Ion Ratio Lower Upper
91 100
92 59.2 49.1 73.7

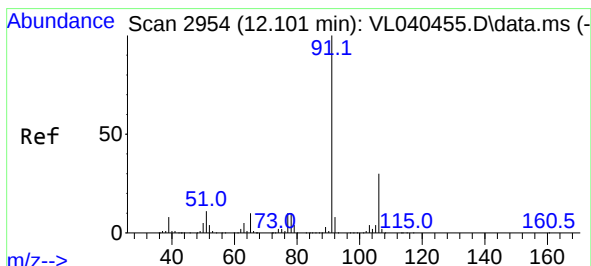
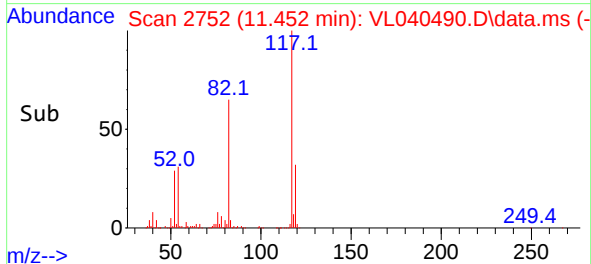
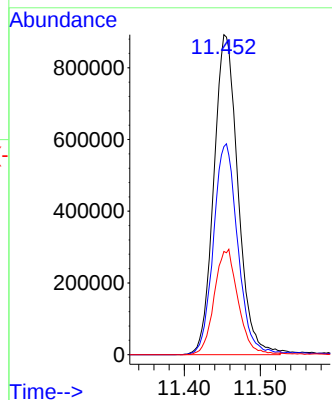
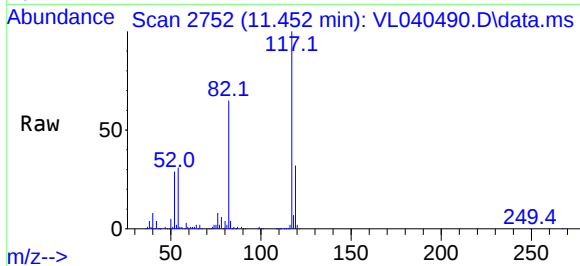




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

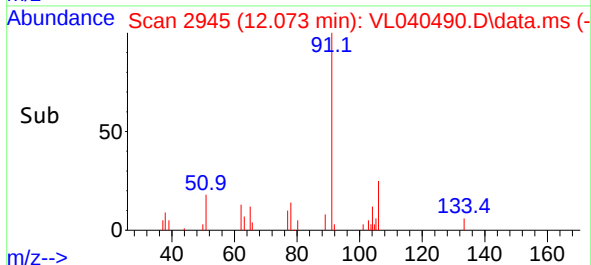
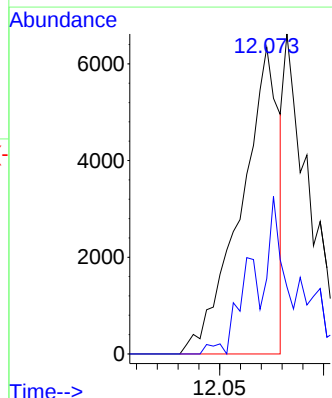
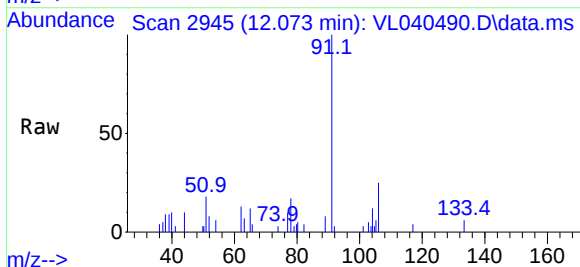
Instrument :
MSVOA_L
ClientSampleId :
AO-1

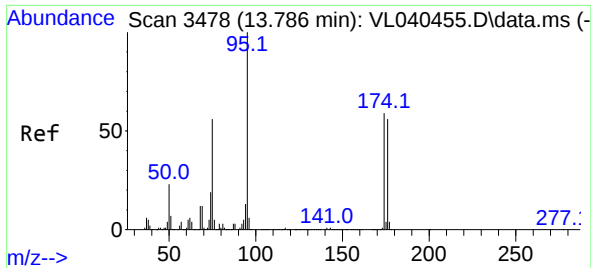
Tgt Ion:117 Resp: 1972119
Ion Ratio Lower Upper
117 100
82 67.7 53.0 79.4
119 32.9 24.4 36.6



#58
Ethyl Benzene
Concen: 0.034 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.029 min
Lab File: VL040490.D
Acq: 22 Jun 2023 18:04

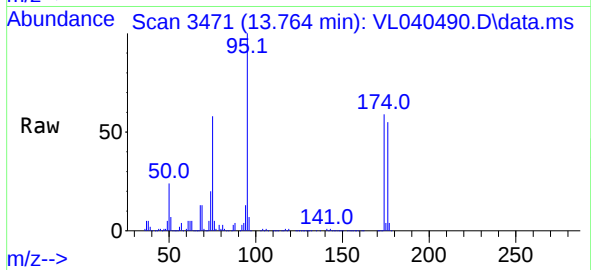
Tgt Ion: 91 Resp: 8096
Ion Ratio Lower Upper
91 100
106 24.6 23.7 35.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.136 ppbv
 RT: 13.764 min Scan# 34
 Delta R.T. -0.022 min
 Lab File: VL040490.D
 Acq: 22 Jun 2023 18:04

Instrument :
 MSVOA_L
 ClientSampleId :
 AO-1



Tgt Ion: 95 Resp: 1487062

Ion	Ratio	Lower	Upper
95	100		
174	59.8	47.7	71.5
175	4.3	3.5	5.3

