

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031323\
 Data File : VL040273.D
 Acq On : 13 Mar 2023 20:27
 Operator : SY/MD
 Sample : 01899-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Mar 14 04:56:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Mar 14 04:52:39 2023
 Response via : Initial Calibration

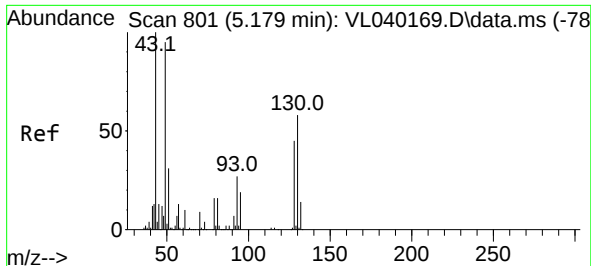
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.195	49	870354	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2138997	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1841105	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1460418	9.646	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	71986	0.444	ppbv	91
3) Chlorodifluoromethane	2.671	51	161283	1.551	ppbv #	79
4) Chloromethane	2.806	50	25556	0.391	ppbv	88
9) Propene	2.697	41	59731	1.409	ppbv #	79
11) Trichlorofluoromethane	3.562	101	35806	0.246	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.063	101	3766	0.035	ppbv #	11
13) Ethanol	3.234	45	2876394	737.228	ppbv	94
15) Acetone	3.465	43	769031	7.339	ppbv	98
16) 1,3-Butadiene	2.960	39	19792	0.414	ppbv #	38
17) tert-Butyl alcohol	3.899	59	7974	0.083	ppbv #	92
19) Isopropyl Alcohol	3.581	45	95809	1.923	ppbv #	87
20) Methylene Chloride	3.935	84	227454	4.170	ppbv	99
23) Vinyl Acetate	4.623	43	56015	1.761	ppbv #	89
25) Ethyl Acetate	5.217	43	117159	0.601	ppbv #	85
26) Hexane	5.217	57	130959	1.566	ppbv #	43
29) Chloroform	5.272	83	4663	0.032	ppbv	90
34) 2-Butanone	4.793	43	97067	0.920	ppbv	100
36) Benzene	6.378	78	46765	0.281	ppbv #	92
39) 1,2-Dichloropropane	6.658	63	549508	8.486	ppbv #	25
41) Tetrahydrofuran	5.574	42	12905	0.211	ppbv #	59
53) Toluene	9.233	91	80451	0.451	ppbv	95

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

Quant Time: Mar 14 04:56:34 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Mar 14 04:52:39 2023
Response via : Initial Calibration

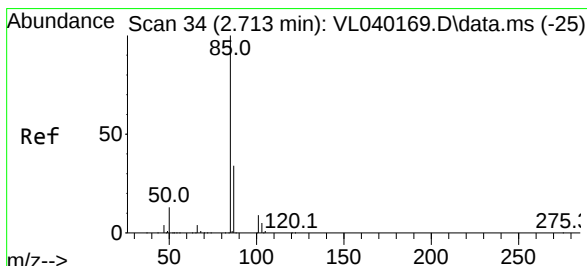
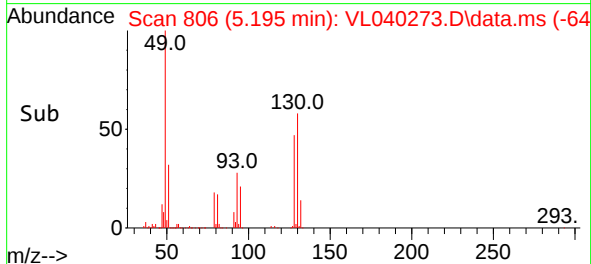
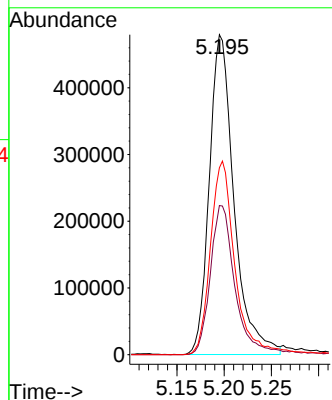
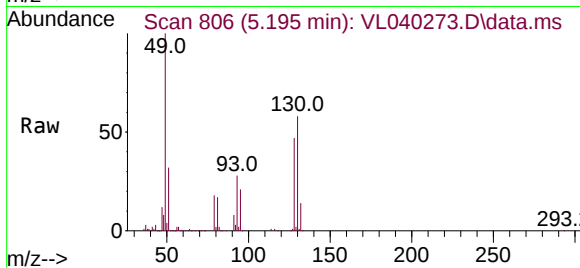




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL040273.D
 Acq: 13 Mar 2023 20:27

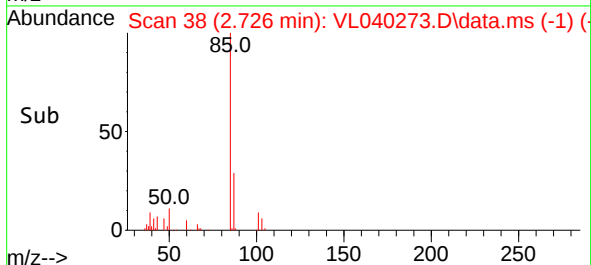
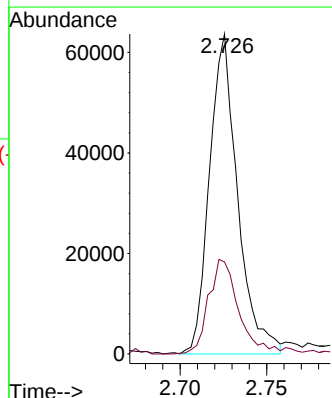
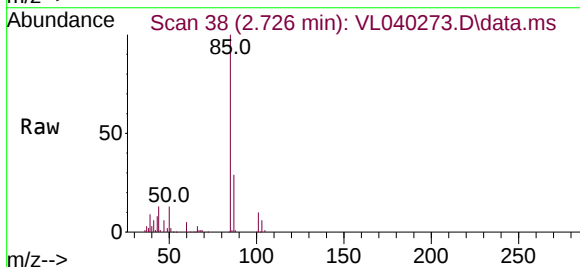
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

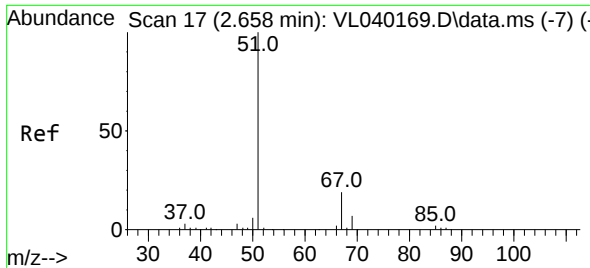
Tgt Ion: 49 Resp: 870354
 Ion Ratio Lower Upper
 49 100
 128 48.2 24.1 72.3
 130 61.7 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.444 ppbv
 RT: 2.726 min Scan# 38
 Delta R.T. 0.013 min
 Lab File: VL040273.D
 Acq: 13 Mar 2023 20:27

Tgt Ion: 85 Resp: 71986
 Ion Ratio Lower Upper
 85 100
 87 28.5 27.0 40.6

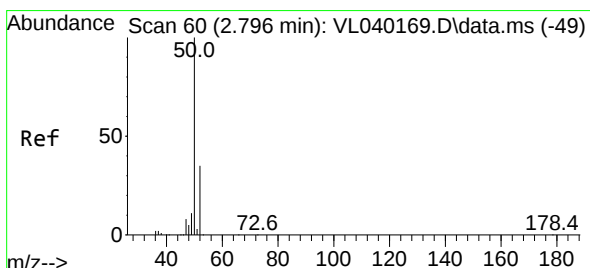
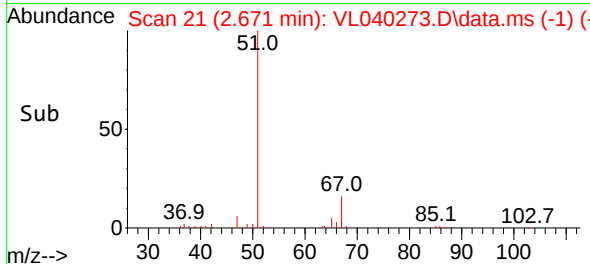
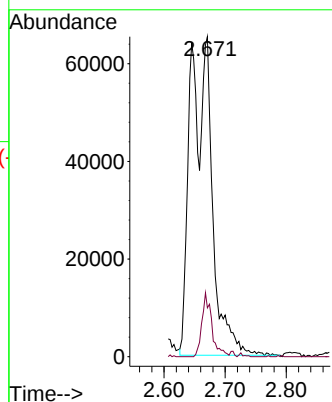
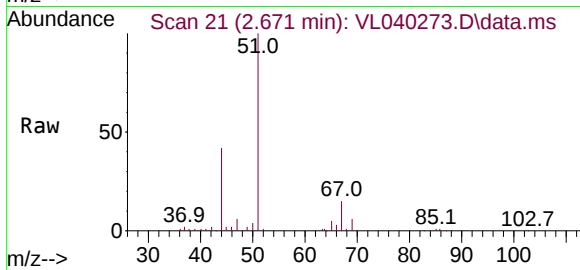




#3
Chlorodifluoromethane
Concen: 1.551 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

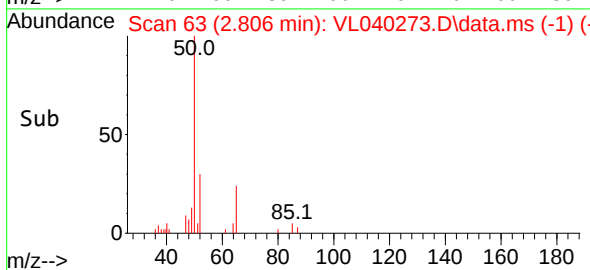
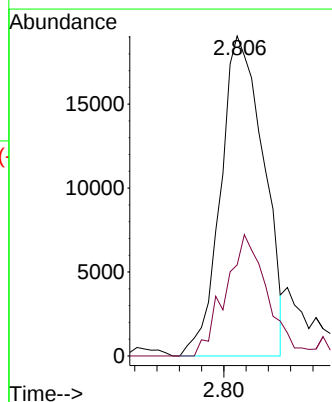
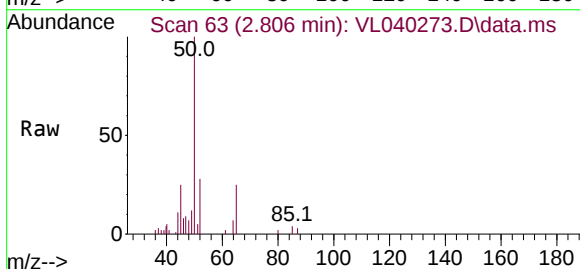
Instrument :
MSVOA_L
ClientSampleId :
IA1

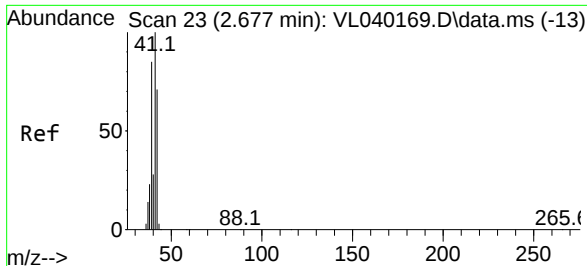
Tgt Ion: 51 Resp: 161283
Ion Ratio Lower Upper
51 100
67 9.7 15.4 23.2#



#4
Chloromethane
Concen: 0.391 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.006 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

Tgt Ion: 50 Resp: 25556
Ion Ratio Lower Upper
50 100
52 28.4 28.3 42.5

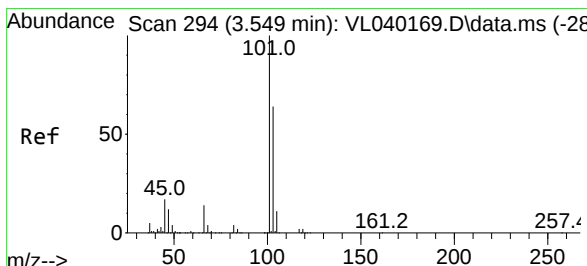
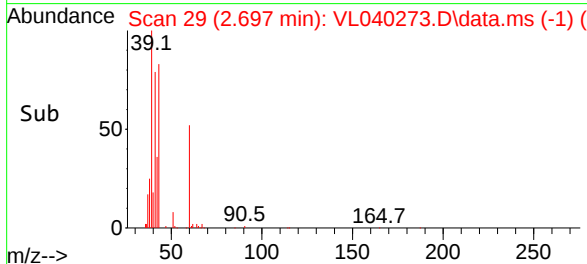
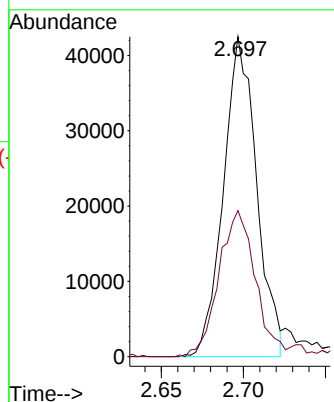
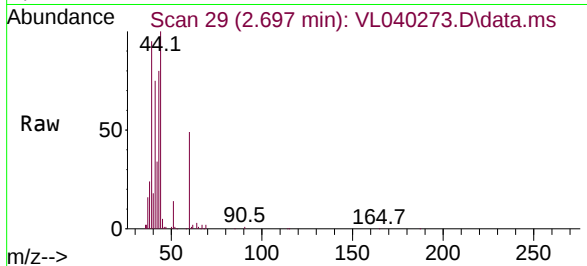




#9
Propene
Concen: 1.409 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.019 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

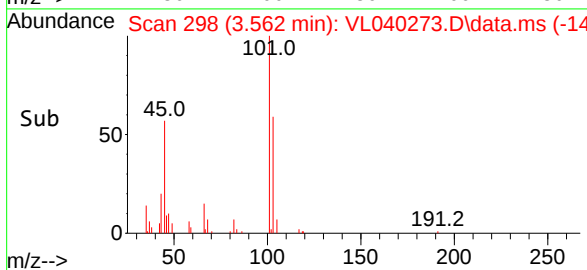
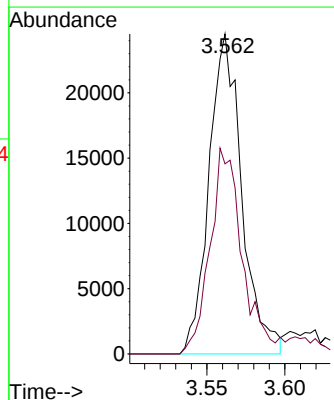
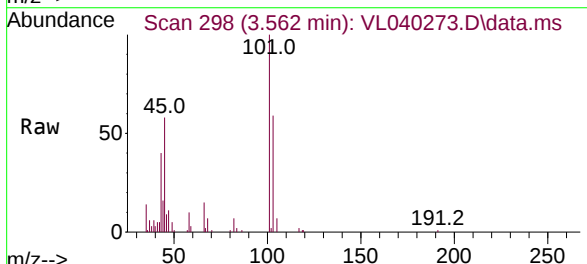
Instrument :
MSVOA_L
ClientSampleId :
IA1

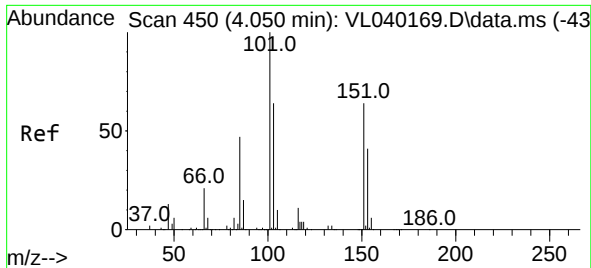
Tgt Ion: 41 Resp: 59731
Ion Ratio Lower Upper
41 100
42 54.1 56.9 85.3#



#11
Trichlorofluoromethane
Concen: 0.246 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.010 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

Tgt Ion: 101 Resp: 35806
Ion Ratio Lower Upper
101 100
103 59.4 51.0 76.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.035 ppbv

RT: 4.063 min Scan# 4

Delta R.T. 0.006 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Instrument :

MSVOA_L

ClientSampleId :

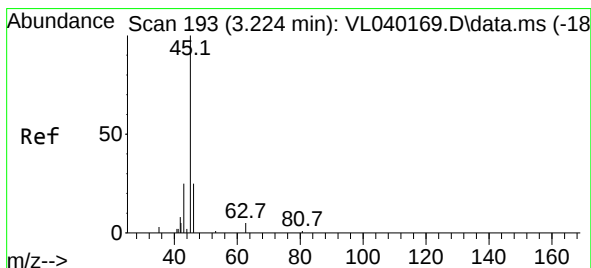
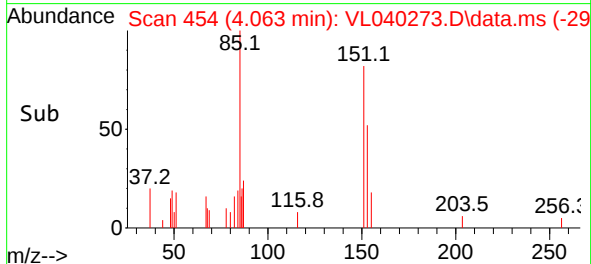
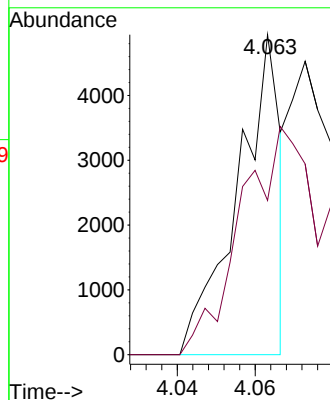
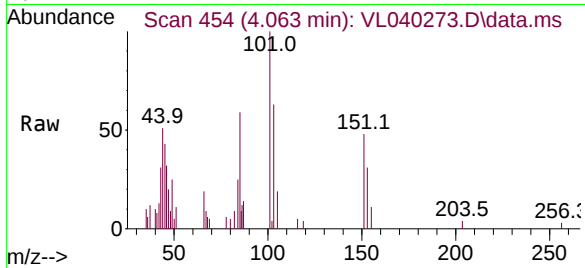
IA1

Tgt Ion:101 Resp: 3766

Ion Ratio Lower Upper

101 100

151 140.5 54.7 82.1#



#13

Ethanol

Concen: 737.228 ppbv

RT: 3.234 min Scan# 196

Delta R.T. 0.003 min

Lab File: VL040273.D

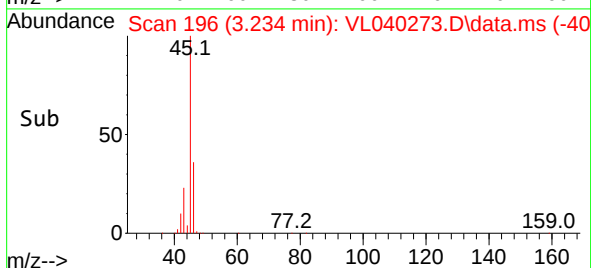
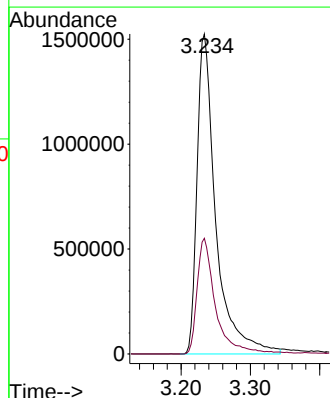
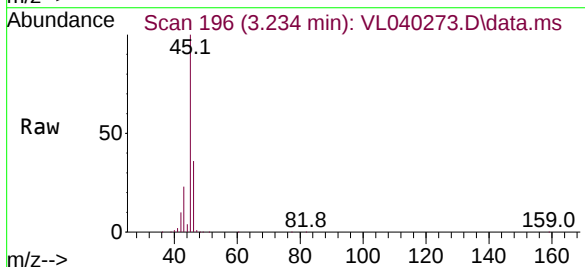
Acq: 13 Mar 2023 20:27

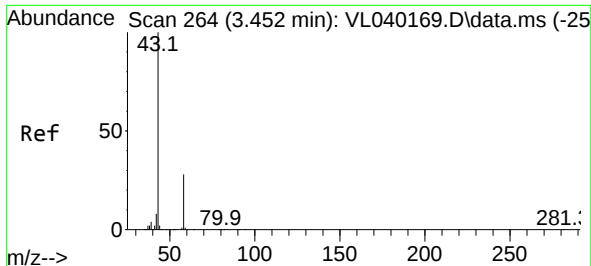
Tgt Ion: 45 Resp: 2876394

Ion Ratio Lower Upper

45 100

46 36.4 13.3 53.1





#15

Acetone

Concen: 7.339 ppbv

RT: 3.465 min Scan# 2

Delta R.T. 0.010 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Instrument :

MSVOA_L

ClientSampleId :

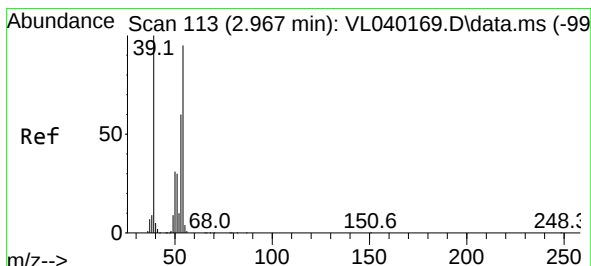
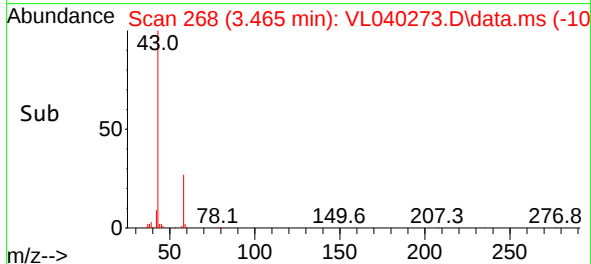
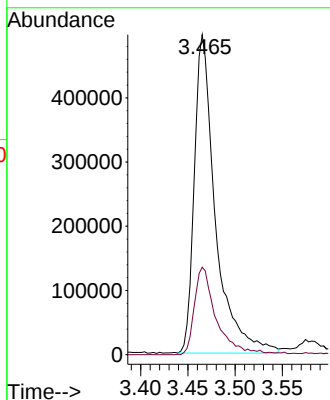
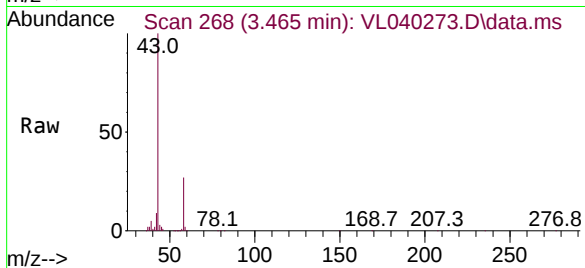
IA1

Tgt Ion: 43 Resp: 769031

Ion Ratio Lower Upper

43 100

58 28.9 22.4 33.6



#16

1,3-Butadiene

Concen: 0.414 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.010 min

Lab File: VL040273.D

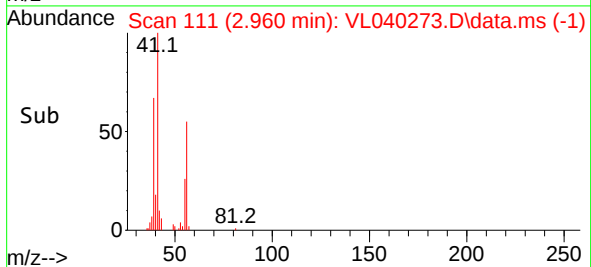
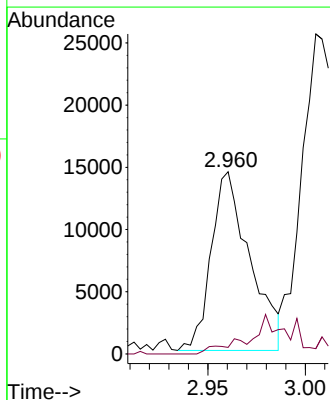
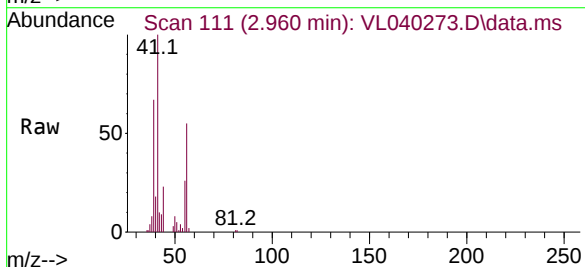
Acq: 13 Mar 2023 20:27

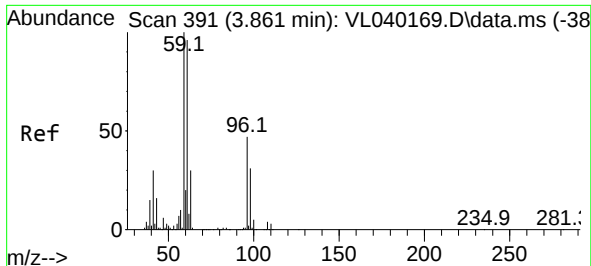
Tgt Ion: 39 Resp: 19792

Ion Ratio Lower Upper

39 100

54 27.6 66.7 100.1#





#17

tert-Butyl alcohol

Concen: 0.083 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.032 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Instrument :

MSVOA_L

ClientSampleId :

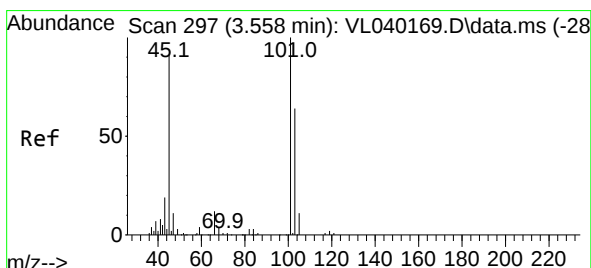
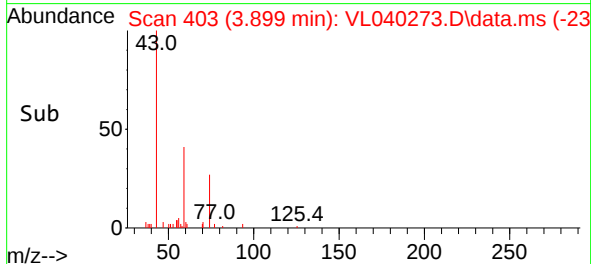
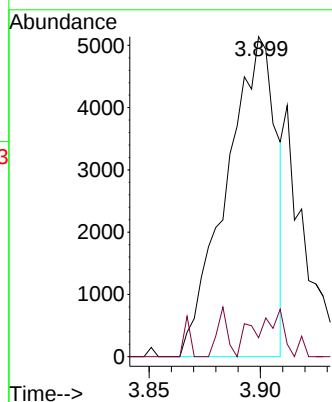
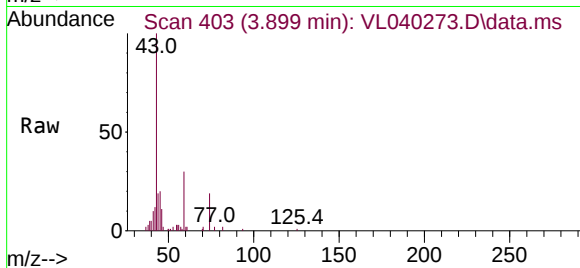
IA1

Tgt Ion: 59 Resp: 7974

Ion Ratio Lower Upper

59 100

57 13.7 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 1.923 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.019 min

Lab File: VL040273.D

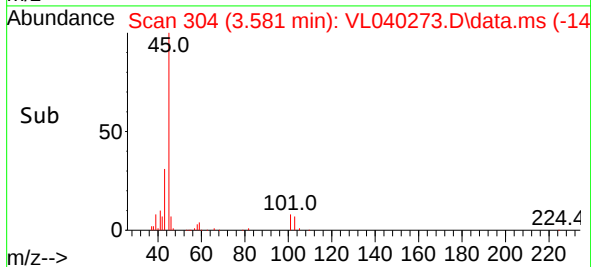
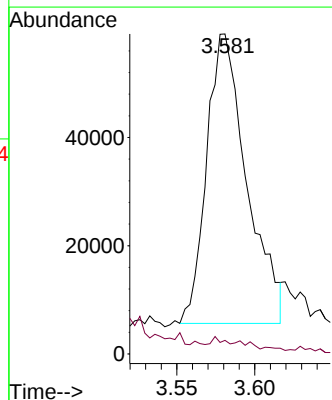
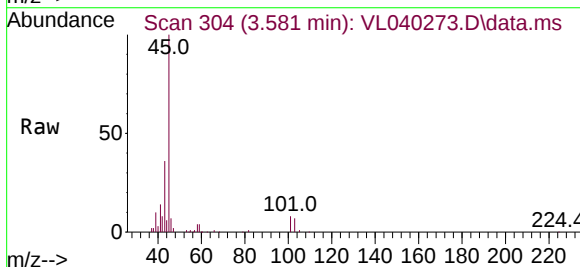
Acq: 13 Mar 2023 20:27

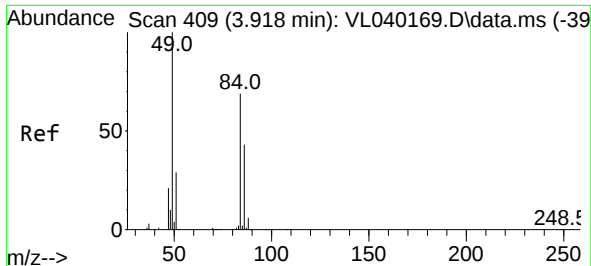
Tgt Ion: 45 Resp: 95809

Ion Ratio Lower Upper

45 100

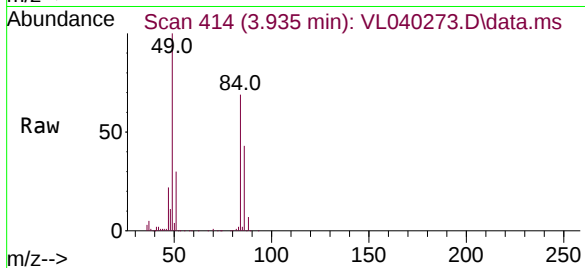
58 7.6 2.6 3.8#





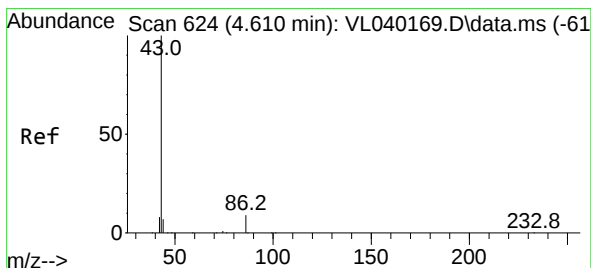
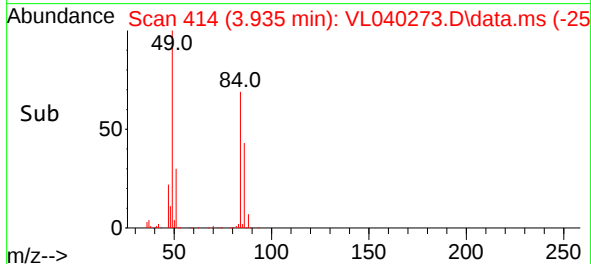
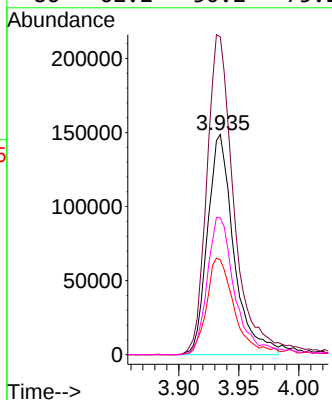
#20
Methylene Chloride
Concen: 4.170 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 227454

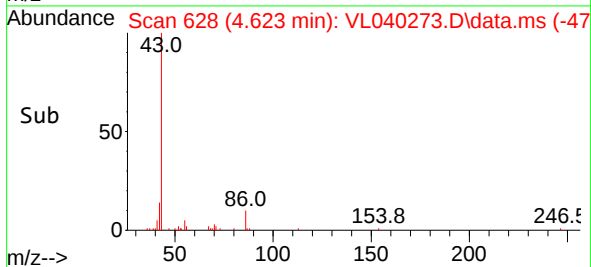
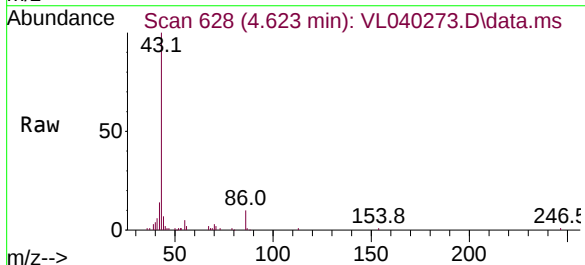
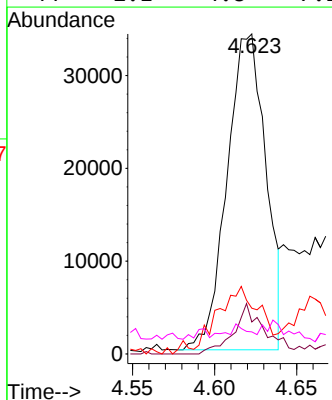
Ion	Ratio	Lower	Upper
84	100		
49	144.2	115.5	173.3
51	43.0	33.1	49.7
86	62.2	50.2	75.2

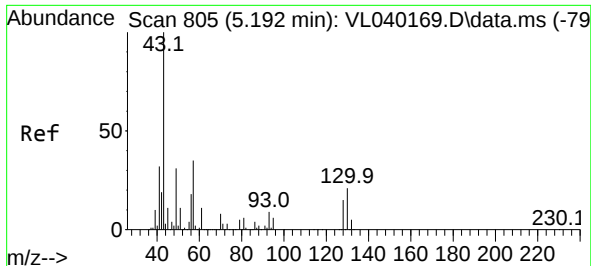


#23
Vinyl Acetate
Concen: 1.761 ppbv
RT: 4.623 min Scan# 628
Delta R.T. 0.003 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

Tgt Ion: 43 Resp: 56015

Ion	Ratio	Lower	Upper
43	100		
86	10.8	5.6	8.4#
42	13.1	7.6	11.4#
44	2.1	4.8	7.2#





#25

Ethyl Acetate

Concen: 0.601 ppbv

RT: 5.217 min Scan# 813

Delta R.T. 0.019 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 117159

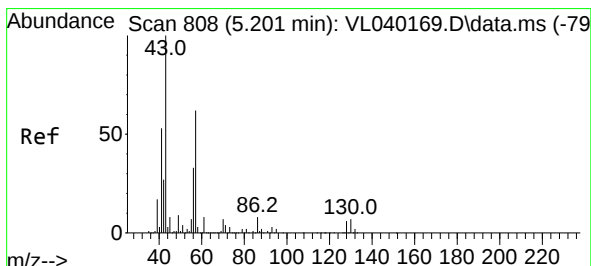
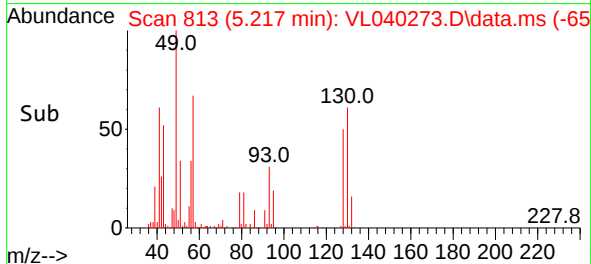
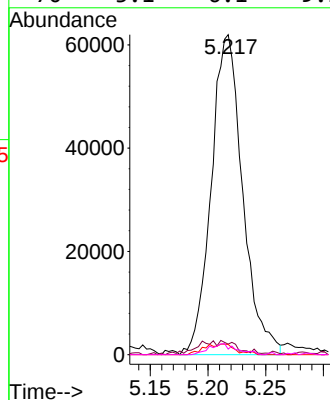
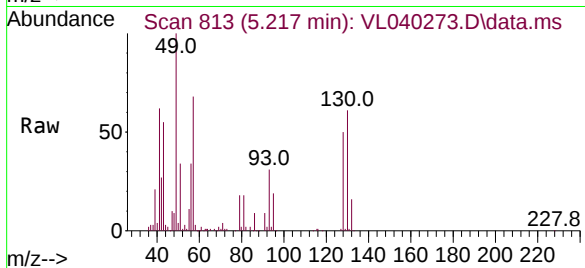
Ion Ratio Lower Upper

43 100

45 6.0 8.3 12.5#

61 3.3 8.4 12.6#

70 3.1 6.1 9.1#



#26

Hexane

Concen: 1.566 ppbv

RT: 5.217 min Scan# 813

Delta R.T. 0.010 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Tgt Ion: 57 Resp: 130959

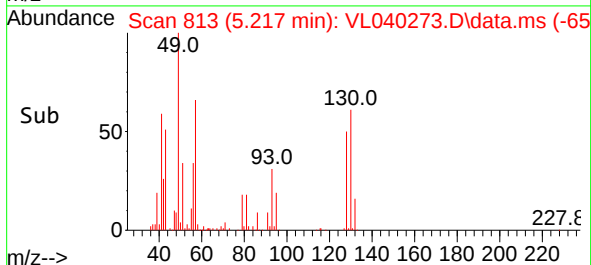
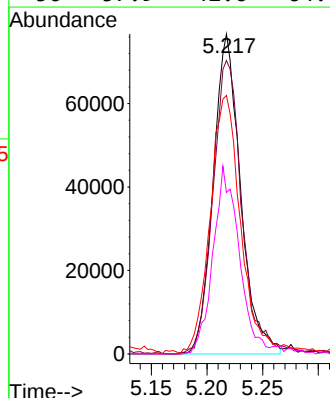
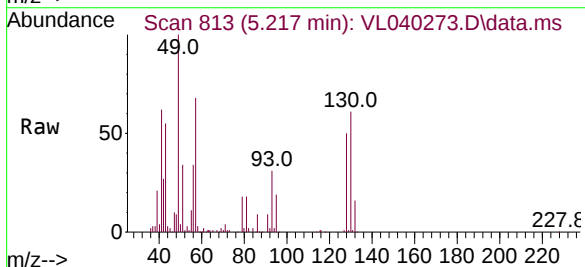
Ion Ratio Lower Upper

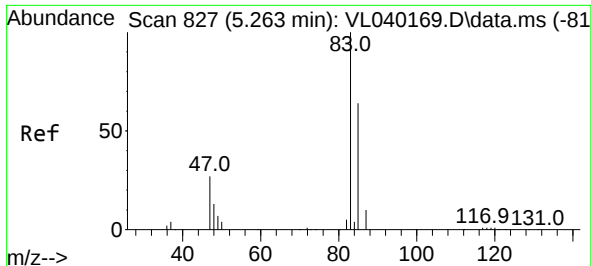
57 100

41 98.4 74.3 111.5

43 91.6 193.0 289.4#

56 57.9 42.6 64.0





#29

Chloroform

Concen: 0.032 ppbv

RT: 5.272 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Instrument :

MSVOA_L

ClientSampleId :

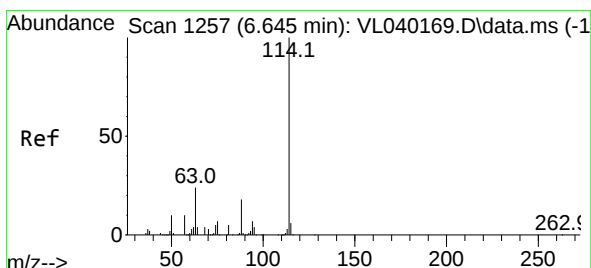
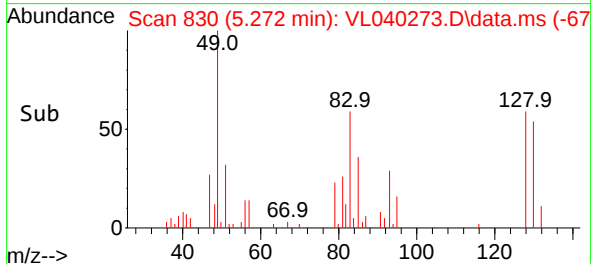
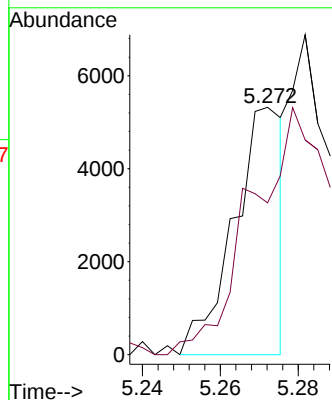
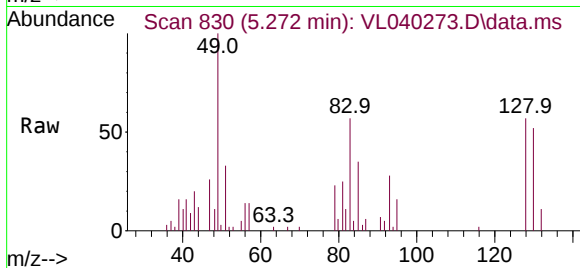
IA1

Tgt Ion: 83 Resp: 4663

Ion Ratio Lower Upper

83 100

85 56.2 51.5 77.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. 0.006 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

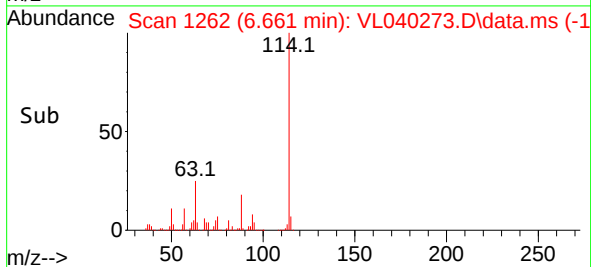
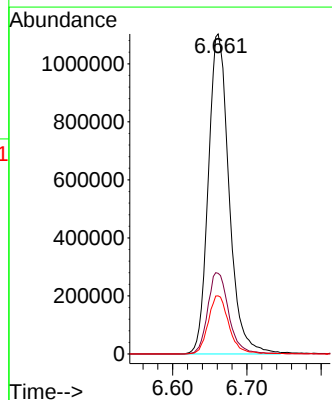
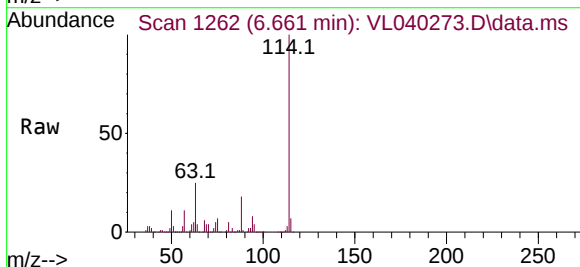
Tgt Ion: 114 Resp: 2138997

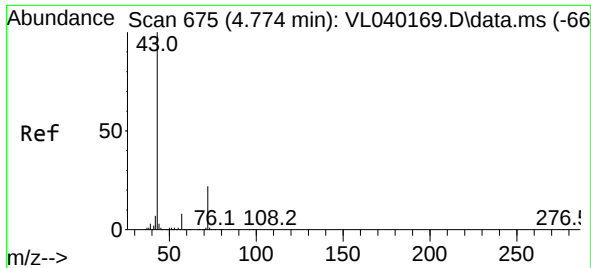
Ion Ratio Lower Upper

114 100

63 25.9 20.4 30.6

88 18.2 14.3 21.5

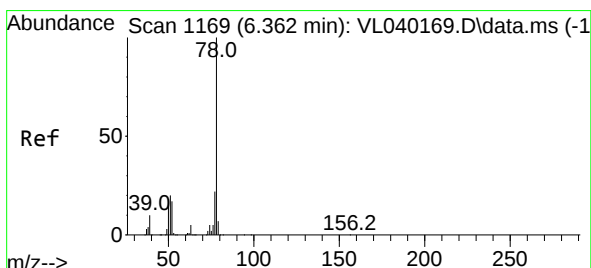
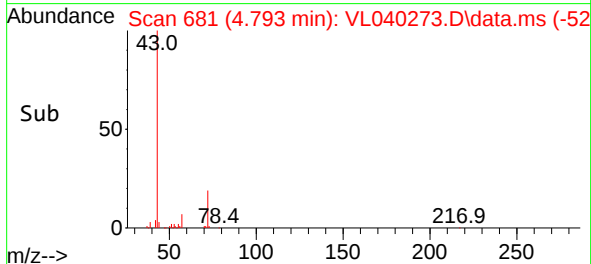
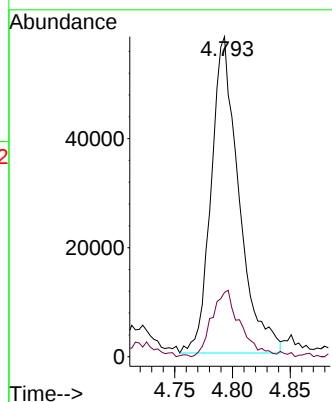
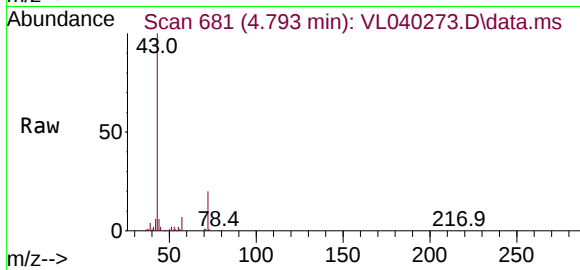




#34
2-Butanone
Concen: 0.920 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

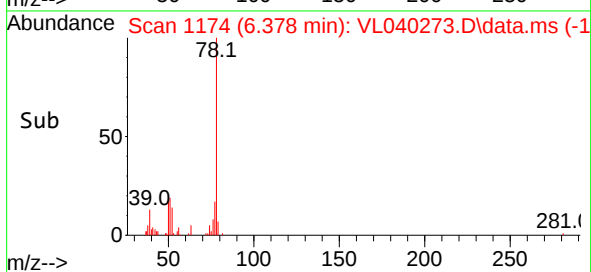
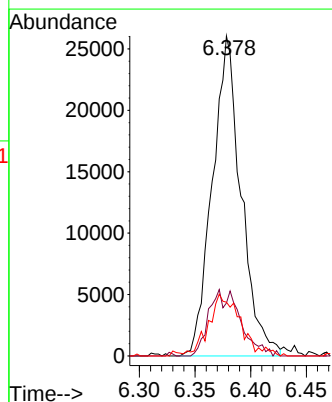
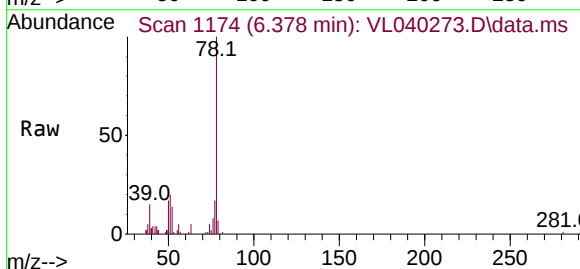
Instrument :
MSVOA_L
ClientSampleId :
IA1

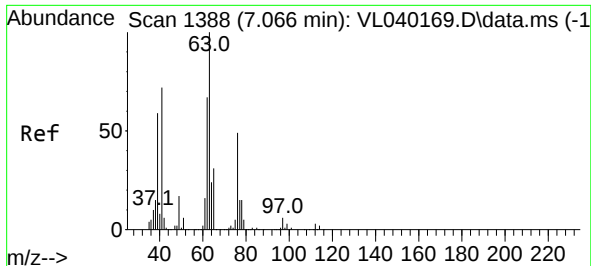
Tgt Ion: 43 Resp: 97067
Ion Ratio Lower Upper
43 100
72 22.4 17.8 26.8



#36
Benzene
Concen: 0.281 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.010 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

Tgt Ion: 78 Resp: 46765
Ion Ratio Lower Upper
78 100
77 16.6 17.5 26.3#
50 16.8 14.6 22.0





#39

1,2-Dichloropropane

Concen: 8.486 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

Instrument :

MSVOA_L

ClientSampleId :

IA1

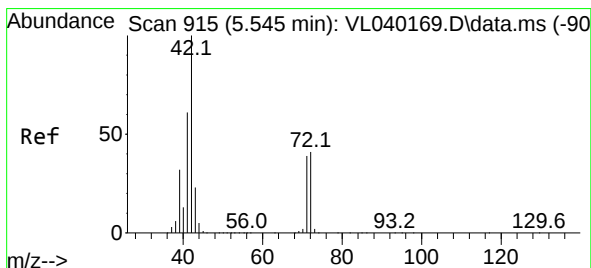
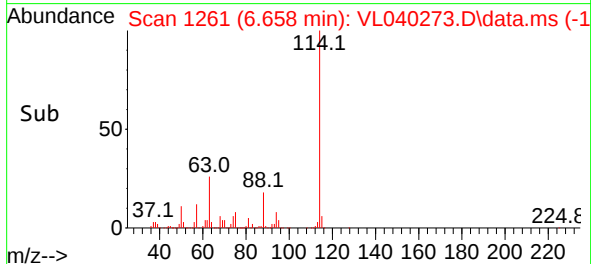
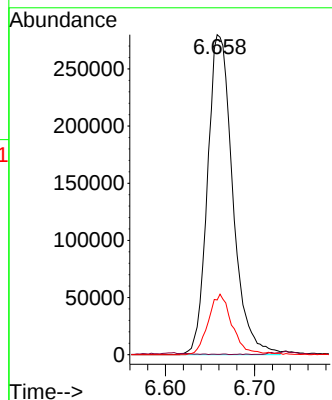
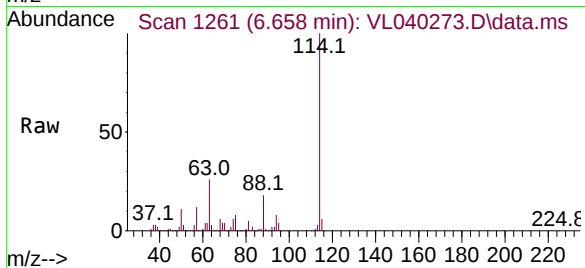
Tgt Ion: 63 Resp: 549508

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 17.1 54.0 81.0#



#41

Tetrahydrofuran

Concen: 0.211 ppbv

RT: 5.574 min Scan# 924

Delta R.T. 0.022 min

Lab File: VL040273.D

Acq: 13 Mar 2023 20:27

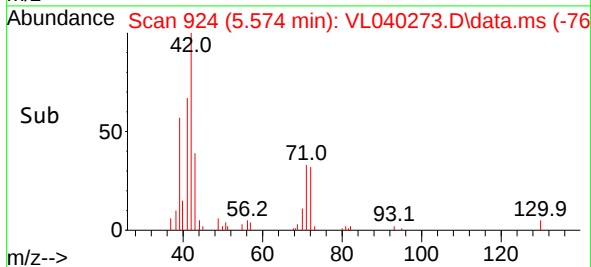
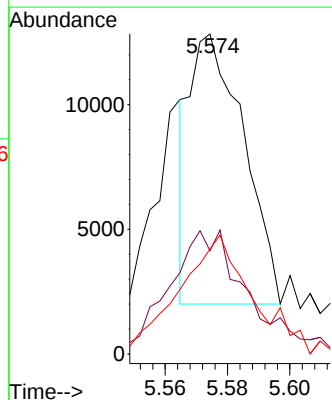
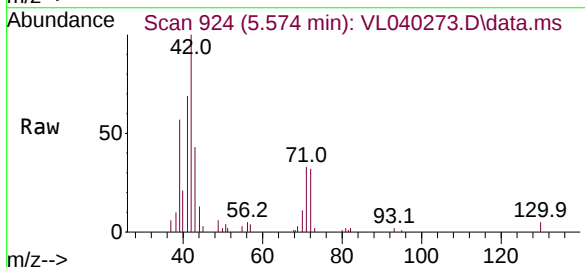
Tgt Ion: 42 Resp: 12905

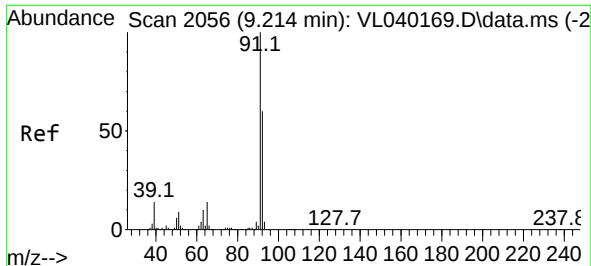
Ion Ratio Lower Upper

42 100

72 69.9 33.0 49.4#

71 61.3 31.4 47.2#

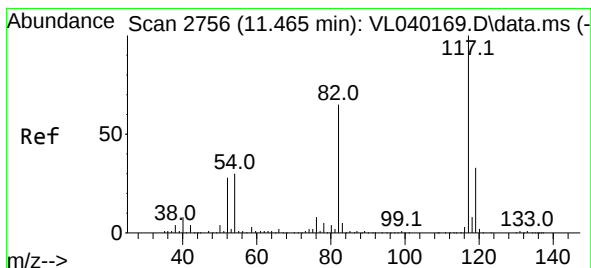
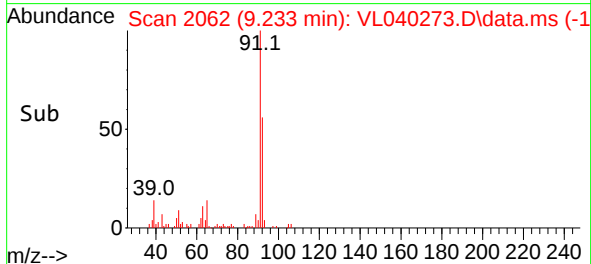
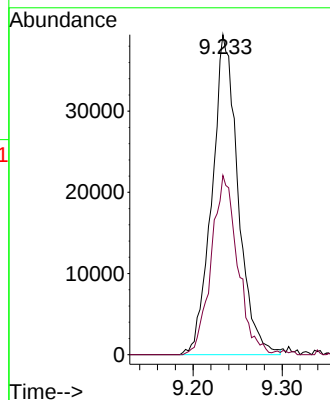
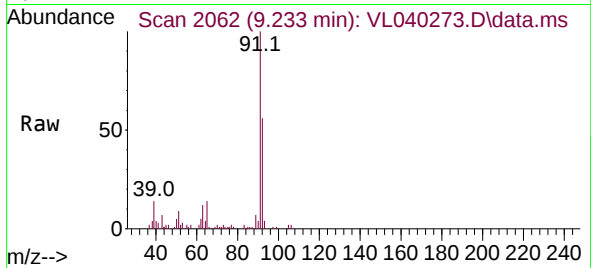




#53
Toluene
Concen: 0.451 ppbv
RT: 9.233 min Scan# 2056
Delta R.T. 0.010 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

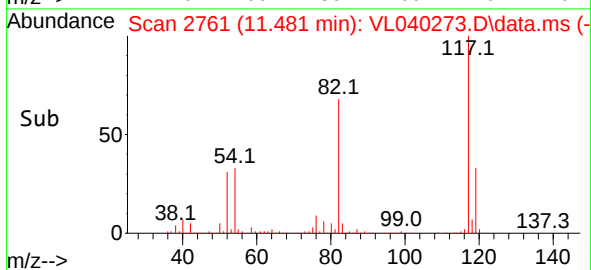
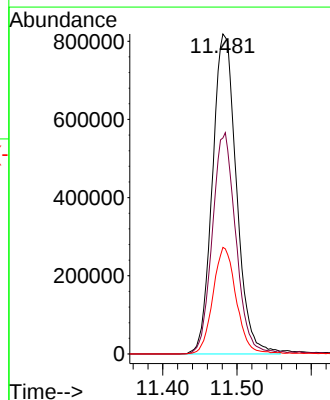
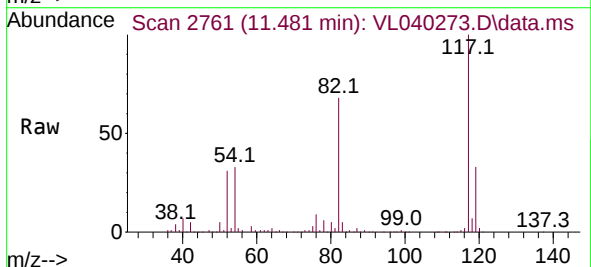
Instrument :
MSVOA_L
ClientSampleId :
IA1

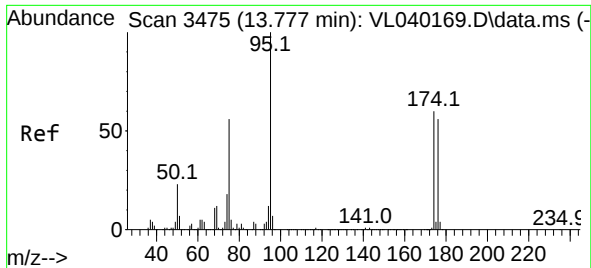
Tgt Ion: 91 Resp: 80451
Ion Ratio Lower Upper
91 100
92 57.4 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.006 min
Lab File: VL040273.D
Acq: 13 Mar 2023 20:27

Tgt Ion: 117 Resp: 1841105
Ion Ratio Lower Upper
117 100
82 68.8 53.3 79.9
119 32.8 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.646 ppbv
 RT: 13.796 min Scan# 34
 Delta R.T. 0.013 min
 Lab File: VL040273.D
 Acq: 13 Mar 2023 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 95 Resp: 1460418
 Ion Ratio Lower Upper
 95 100
 174 57.7 48.2 72.2
 175 4.2 3.4 5.2

