

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040877.D
 Acq On : 15 Nov 2023 20:49
 Operator : SY/MD
 Sample : 05278-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-SS-1

Quant Time: Nov 16 05:56:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	998959	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.648	114	2454889	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.449	117	2213962	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1741941	10.049	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

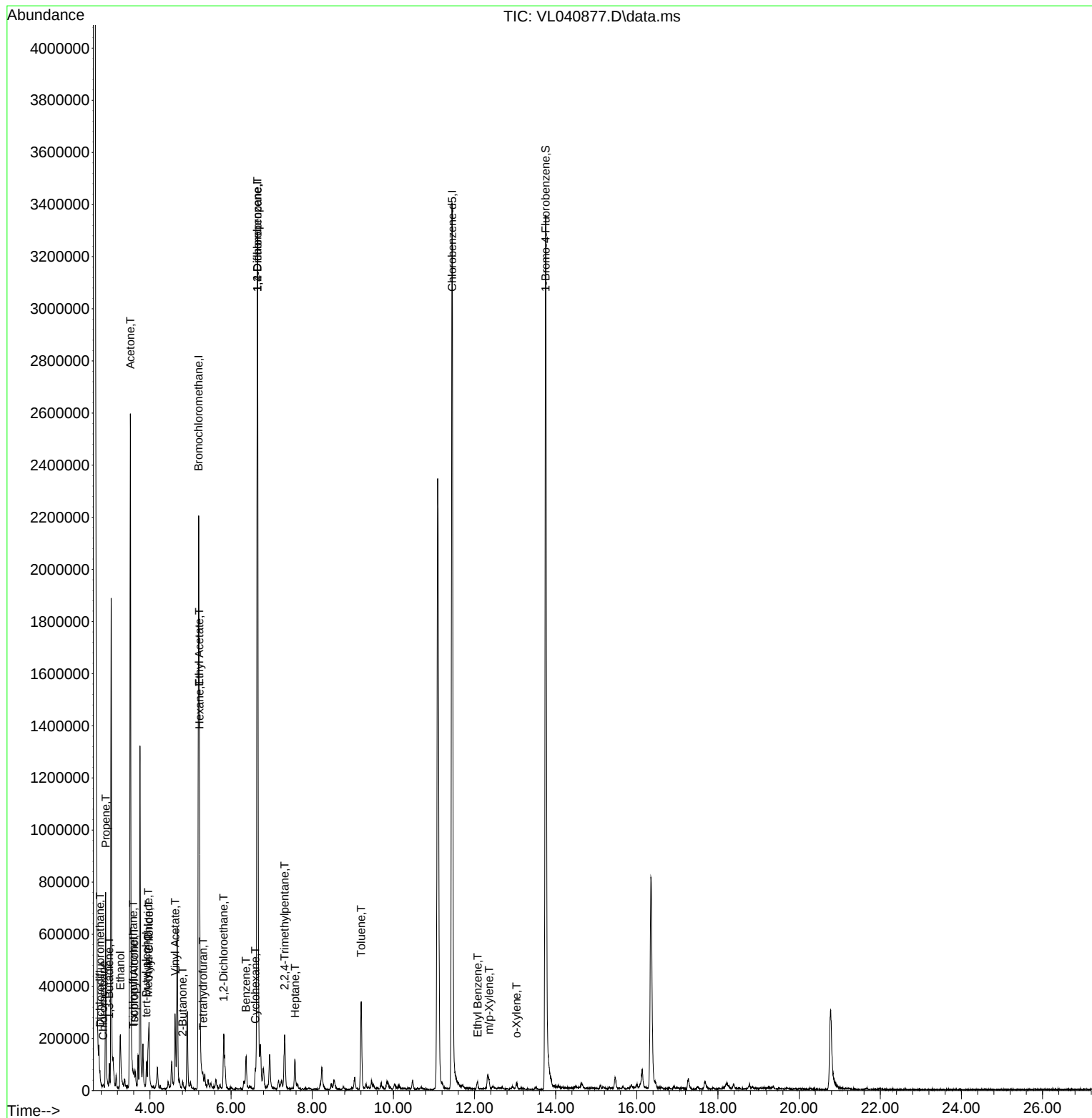
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.771	85	22211	0.110	ppbv	91
4) Chloromethane	2.848	50	6714	0.117	ppbv	96
9) Propene	2.909	41	183883	3.421	ppbv	99
10) Heptane	7.581	43	17135	0.130	ppbv #	28
11) Trichlorofluoromethane	3.587	101	8183	0.053	ppbv #	62
13) Ethanol	3.272	45	238735	22.873	ppbv #	100
15) Acetone	3.517	43	1219361	11.461	ppbv #	70
16) 1,3-Butadiene	2.999	39	21679	0.403	ppbv #	18
17) tert-Butyl alcohol	3.915	59	25099	0.276	ppbv #	71
19) Isopropyl Alcohol	3.610	45	47344	0.739	ppbv #	64
20) Methylene Chloride	3.957	84	45302	1.032	ppbv	96
21) Allyl Chloride	3.976	41	37579	0.552	ppbv #	49
23) Vinyl Acetate	4.623	43	105578	0.768	ppbv #	1
25) Ethyl Acetate	5.217	43	199247	0.904	ppbv #	78
26) Hexane	5.221	57	270401	2.773	ppbv #	40
30) Cyclohexane	6.600	84	23775	0.283	ppbv	83
34) 2-Butanone	4.806	43	15443	0.123	ppbv #	31
36) Benzene	6.369	78	90974	0.457	ppbv	97
37) 1,2-Dichloroethane	5.812	62	4801	0.041	ppbv #	84
39) 1,2-Dichloropropane	6.648	63	631612	7.995	ppbv #	24
41) Tetrahydrofuran	5.311	42	3092	0.040	ppbv #	38
44) 2,2,4-Trimethylpentane	7.320	57	160072	0.484	ppbv #	82
53) Toluene	9.208	91	235011	1.072	ppbv	95
58) Ethyl Benzene	12.076	91	10195	0.035	ppbv	99
59) m/p-Xylene	12.359	91	11767	0.048	ppbv #	32
60) o-Xylene	13.034	91	11259	0.048	ppbv #	62

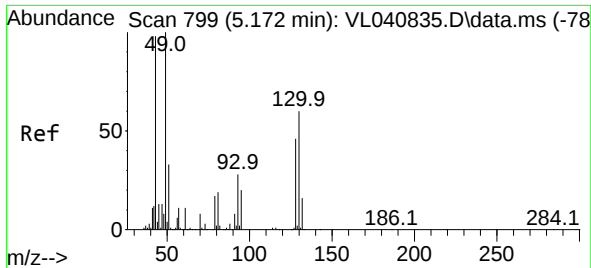
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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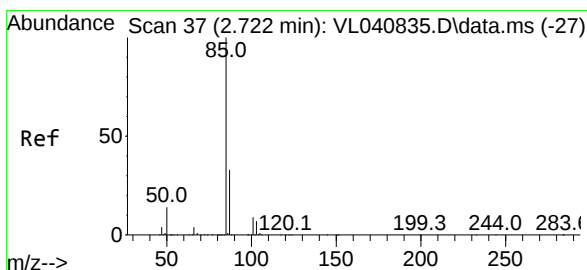
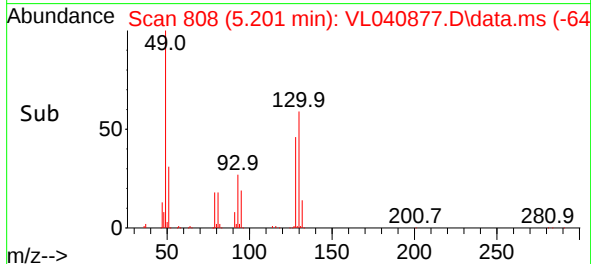
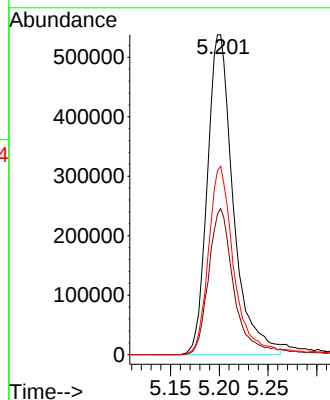
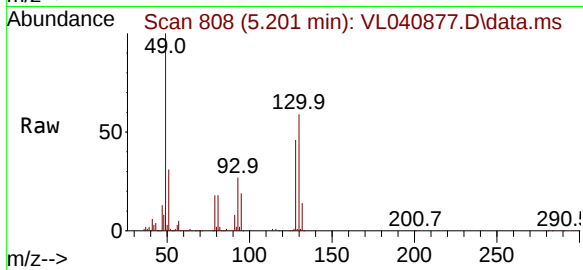




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.029 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

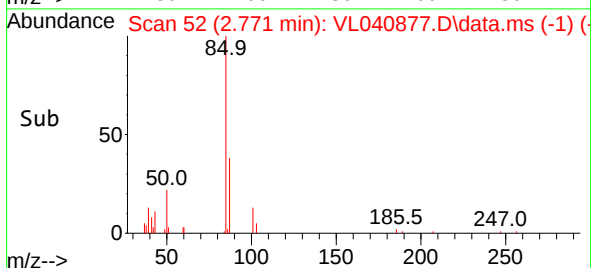
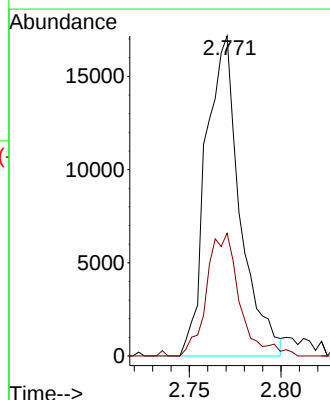
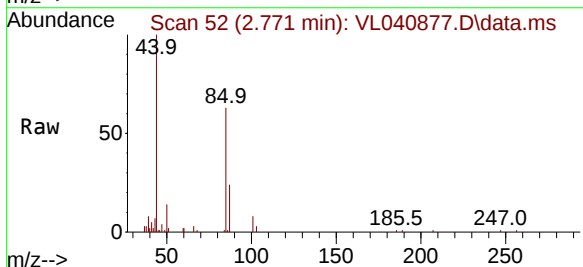
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

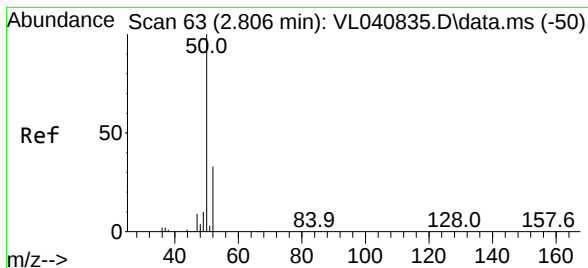
Tgt Ion: 49 Resp: 998959
Ion Ratio Lower Upper
49 100
128 46.5 23.8 71.2
130 58.8 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.110 ppbv
RT: 2.771 min Scan# 52
Delta R.T. 0.048 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 85 Resp: 22211
Ion Ratio Lower Upper
85 100
87 38.4 26.7 40.1

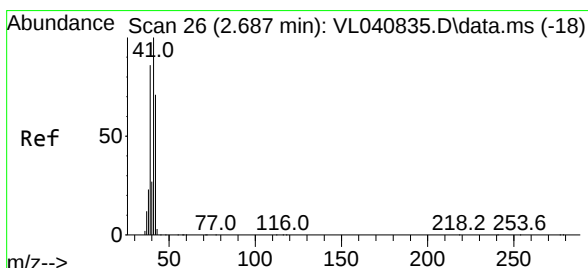
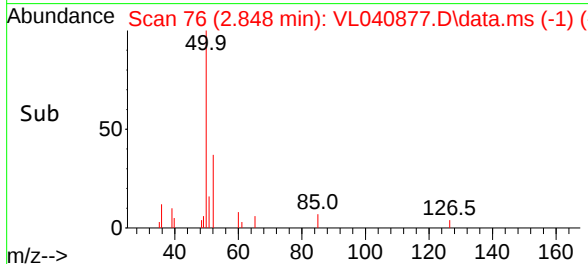
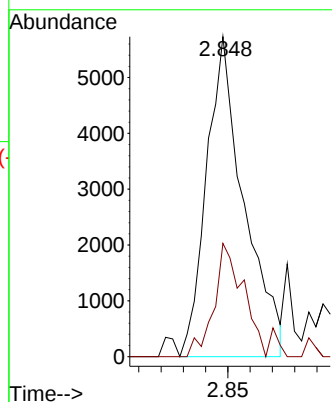
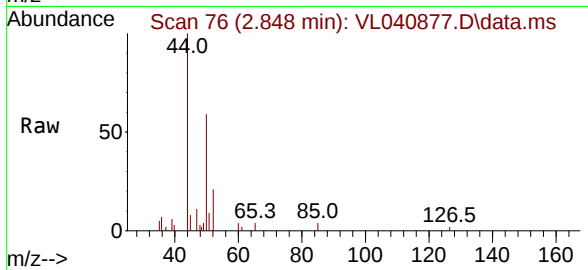




#4
Chloromethane
Concen: 0.117 ppbv
RT: 2.848 min Scan# 70
Delta R.T. 0.042 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

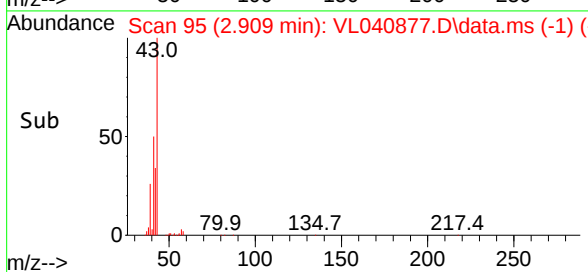
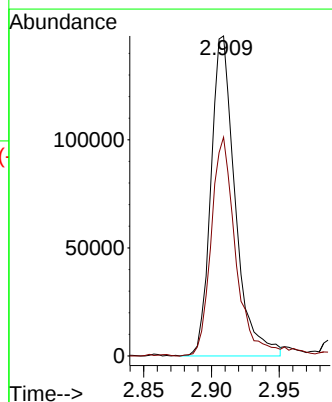
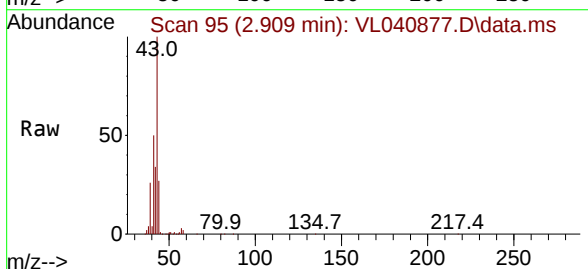
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

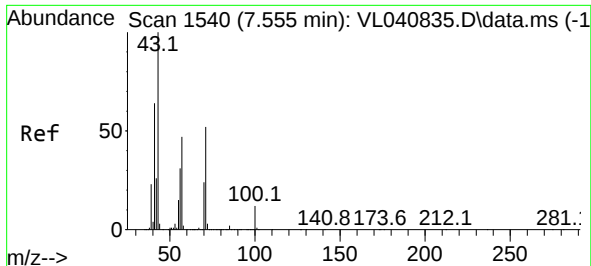
Tgt Ion: 50 Resp: 6714
Ion Ratio Lower Upper
50 100
52 30.8 26.5 39.7



#9
Propene
Concen: 3.421 ppbv
RT: 2.909 min Scan# 95
Delta R.T. 0.222 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 41 Resp: 183883
Ion Ratio Lower Upper
41 100
42 71.1 56.5 84.7





#10

Heptane

Concen: 0.130 ppbv

RT: 7.581 min Scan# 11

Delta R.T. 0.026 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Instrument :

MSVOA_L

ClientSampleId :

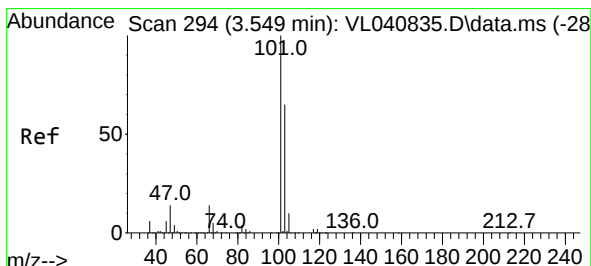
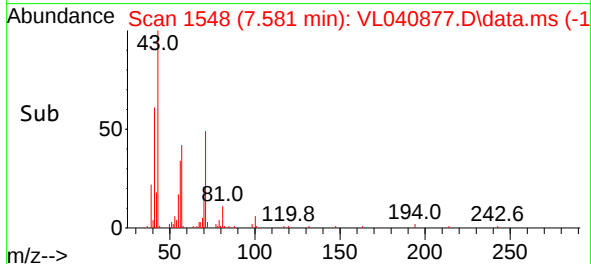
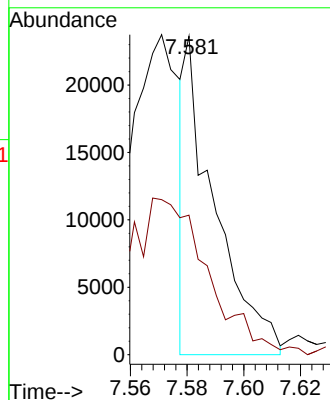
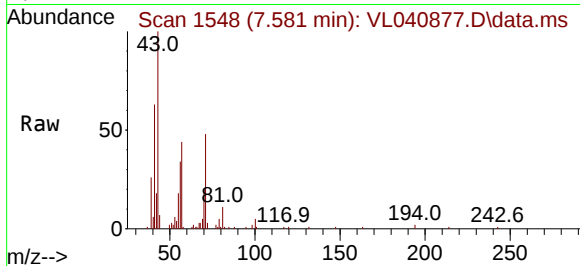
SH-SS-1

Tgt Ion: 43 Resp: 17135

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.0#



#11

Trichlorofluoromethane

Concen: 0.053 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.039 min

Lab File: VL040877.D

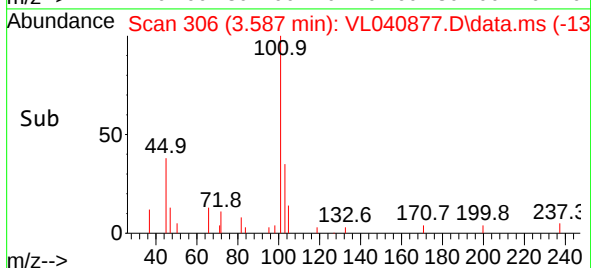
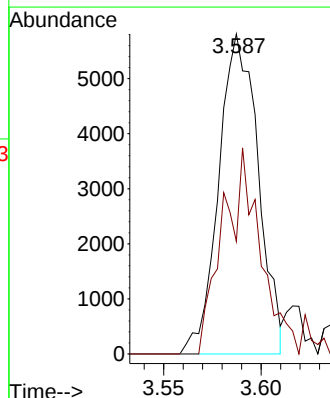
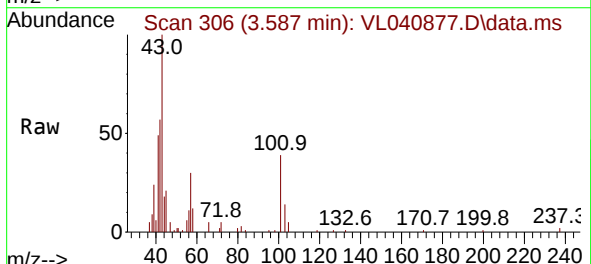
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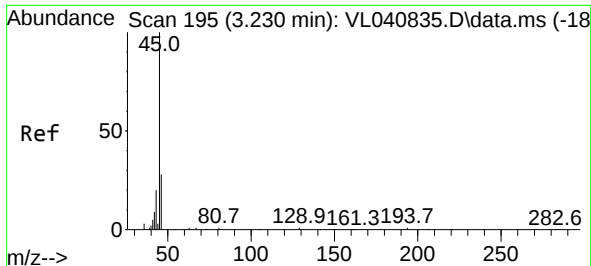
Tgt Ion: 101 Resp: 8183

Ion Ratio Lower Upper

101 100

103 35.2 51.8 77.8#

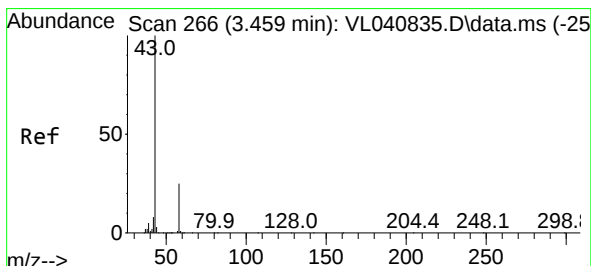
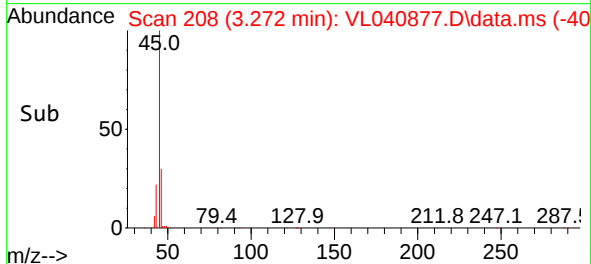
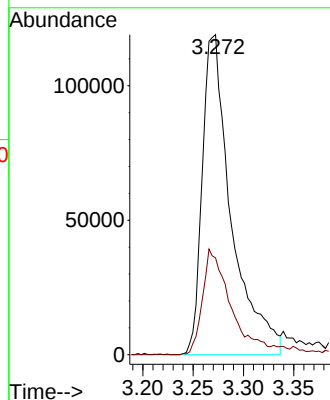
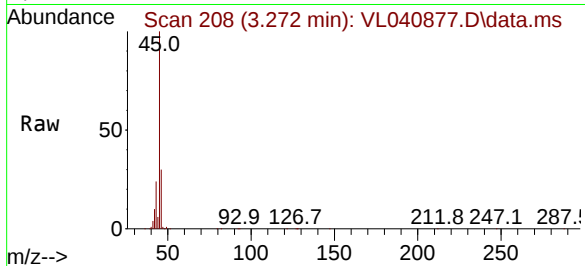




#13
 Ethanol
 Concen: 22.873 ppbv
 RT: 3.272 min Scan# 208
 Delta R.T. 0.042 min
 Lab File: VL040877.D
 Acq: 15 Nov 2023 20:49

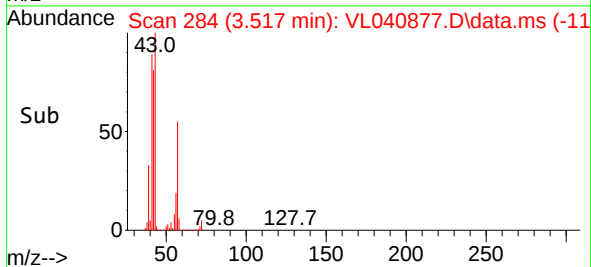
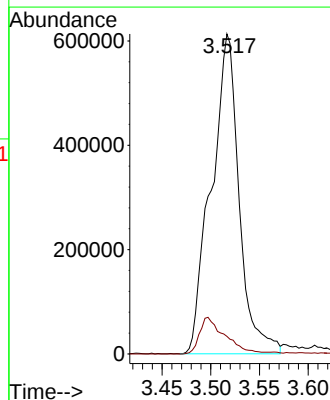
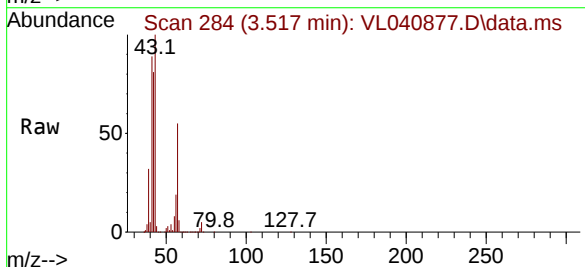
Instrument :
 MSVOA_1
 ClientSampleId :
 SH-SS-1

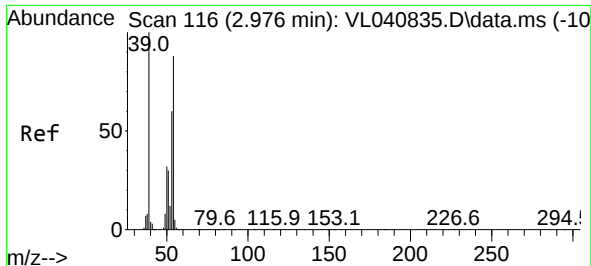
Tgt Ion: 45 Resp: 238735
 Ion Ratio Lower Upper
 45 100
 46 34.4 0.0 0.0#



#15
 Acetone
 Concen: 11.461 ppbv
 RT: 3.517 min Scan# 284
 Delta R.T. 0.058 min
 Lab File: VL040877.D
 Acq: 15 Nov 2023 20:49

Tgt Ion: 43 Resp: 1219361
 Ion Ratio Lower Upper
 43 100
 58 10.9 20.9 31.3#

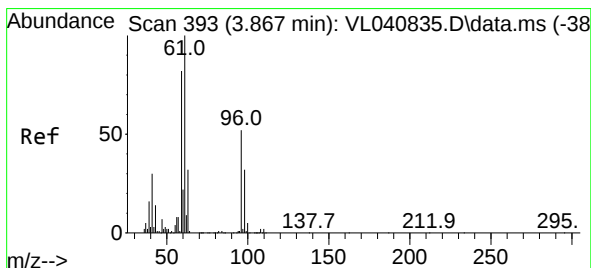
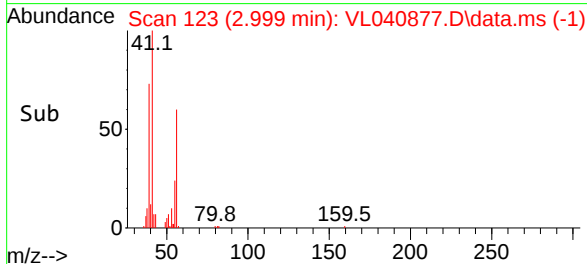
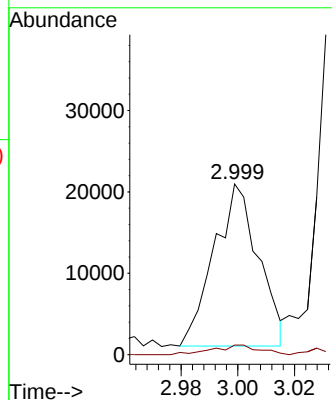
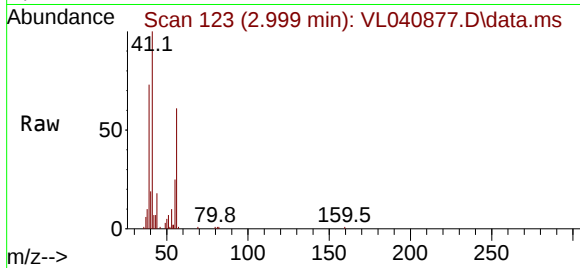




#16
1,3-Butadiene
Concen: 0.403 ppbv
RT: 2.999 min Scan# 116
Delta R.T. 0.022 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

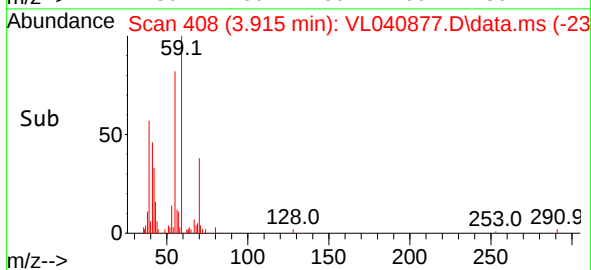
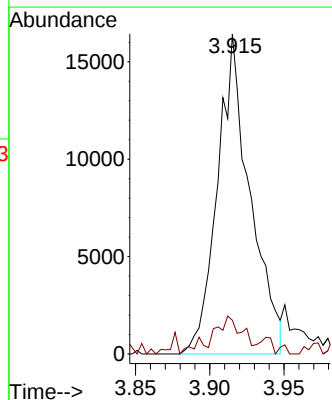
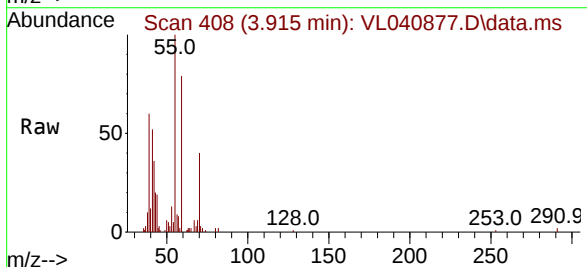
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

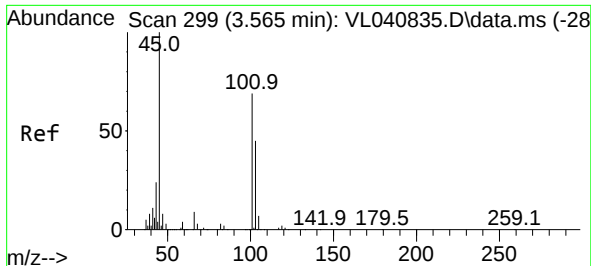
Tgt Ion: 39 Resp: 21679
Ion Ratio Lower Upper
39 100
54 6.4 61.8 92.6#



#17
tert-Butyl alcohol
Concen: 0.276 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.048 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 59 Resp: 25099
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 0.739 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.045 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Instrument :

MSVOA_L

ClientSampleId :

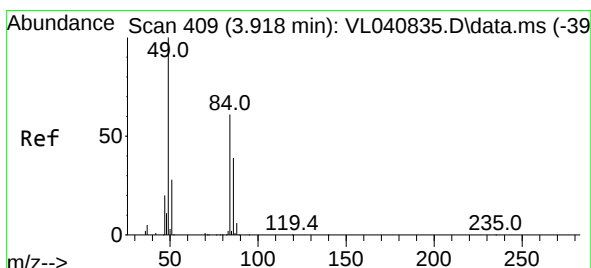
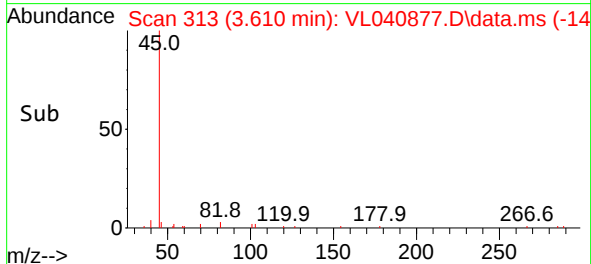
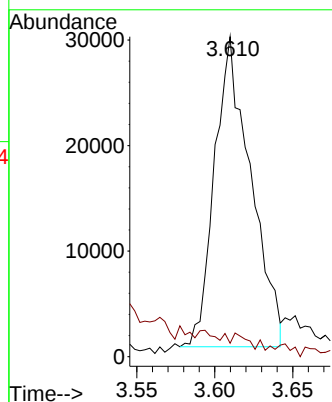
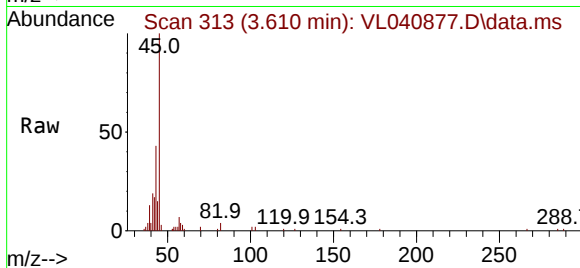
SH-SS-1

Tgt Ion: 45 Resp: 47344

Ion Ratio Lower Upper

45 100

58 14.8 1.6 2.4#



#20

Methylene Chloride

Concen: 1.032 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.039 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Tgt Ion: 84 Resp: 45302

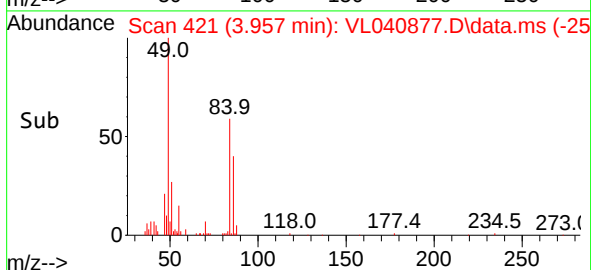
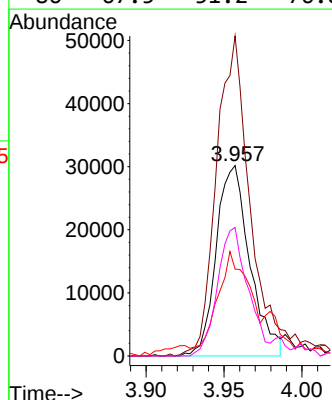
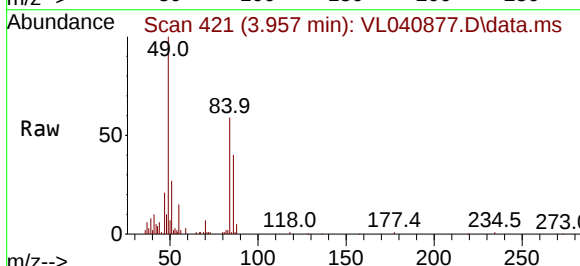
Ion Ratio Lower Upper

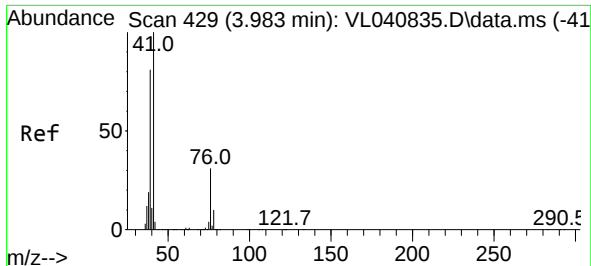
84 100

49 167.4 131.0 196.4

51 40.2 36.9 55.3

86 67.5 51.2 76.8





#21

Allyl Chloride

Concen: 0.552 ppbv

RT: 3.976 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Instrument :

MSVOA_1

ClientSampleId :

SH-SS-1

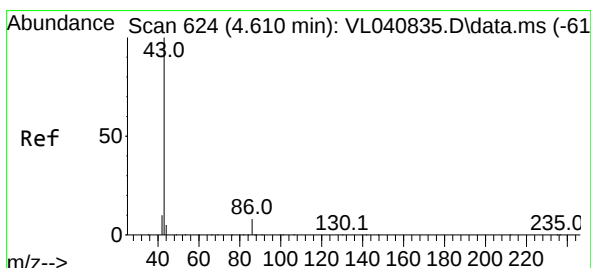
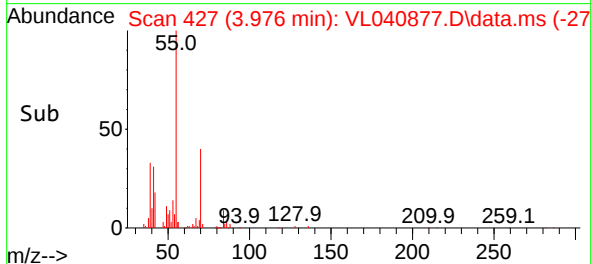
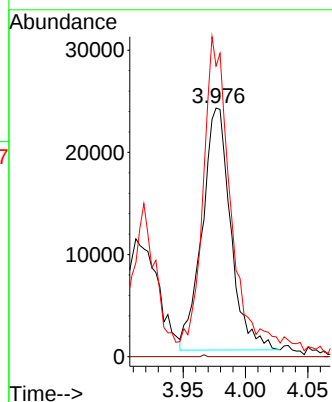
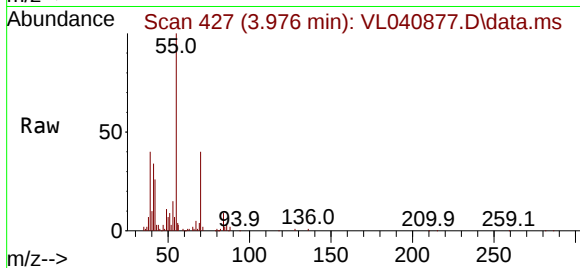
Tgt Ion: 41 Resp: 37579

Ion Ratio Lower Upper

41 100

76 0.0 24.4 36.6#

39 129.8 68.1 102.1#



#23

Vinyl Acetate

Concen: 0.768 ppbv

RT: 4.623 min Scan# 628

Delta R.T. 0.013 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Tgt Ion: 43 Resp: 105578

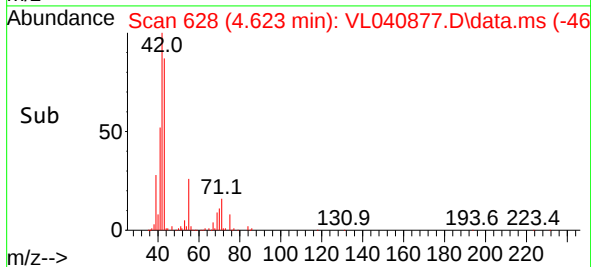
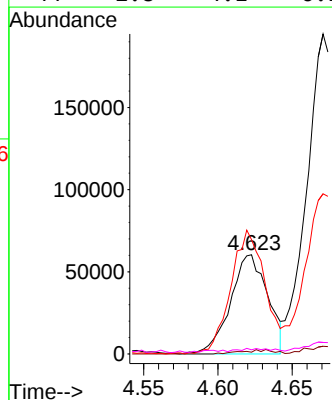
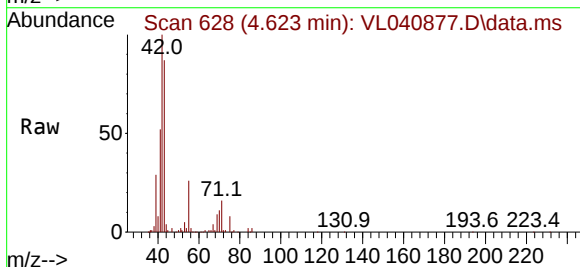
Ion Ratio Lower Upper

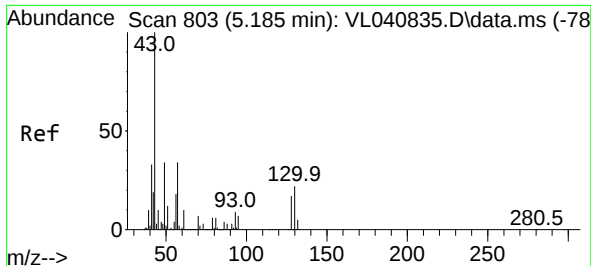
43 100

86 1.8 5.5 8.3#

42 114.0 8.2 12.2#

44 2.8 4.1 6.1#

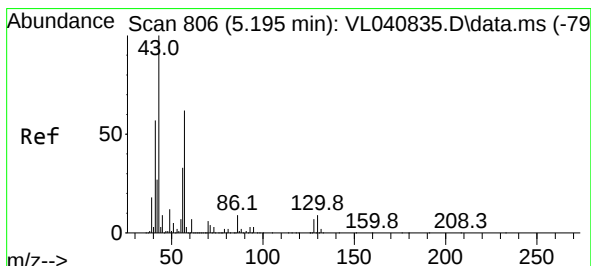
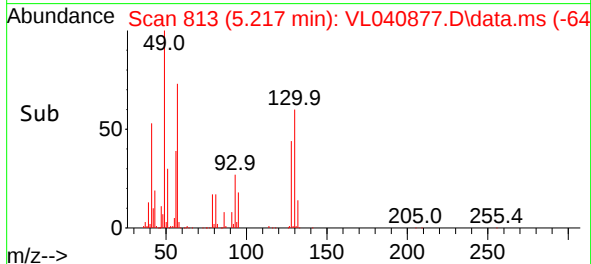
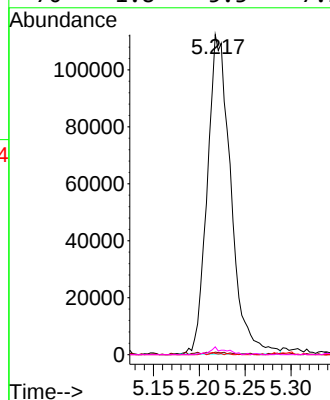
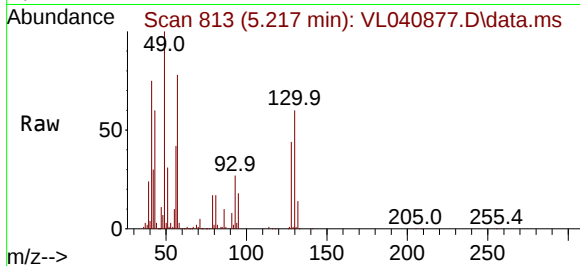




#25
Ethyl Acetate
Concen: 0.904 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.032 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

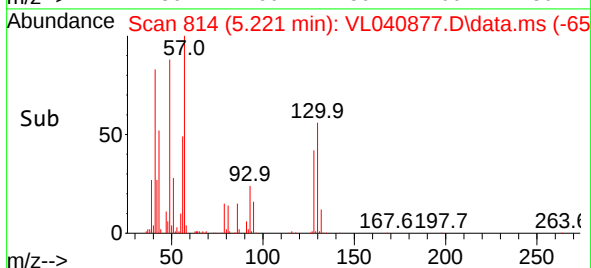
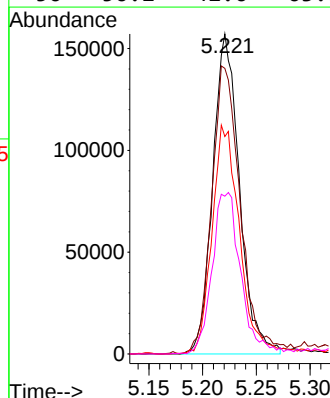
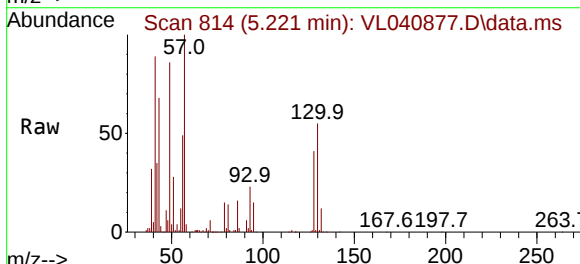
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

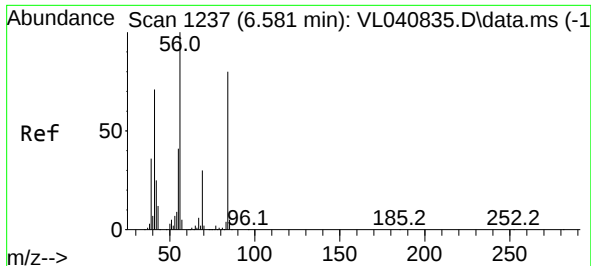
Tgt Ion: 43 Resp: 199247
Ion Ratio Lower Upper
43 100
45 0.8 8.1 12.1#
61 0.4 7.8 11.6#
70 1.8 5.3 7.9#



#26
Hexane
Concen: 2.773 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.026 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 57 Resp: 270401
Ion Ratio Lower Upper
57 100
41 100.5 75.4 113.0
43 75.8 185.9 278.9#
56 56.2 42.6 63.8

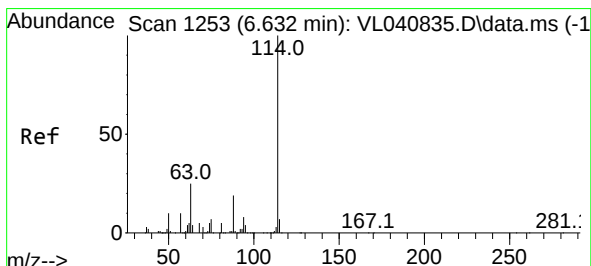
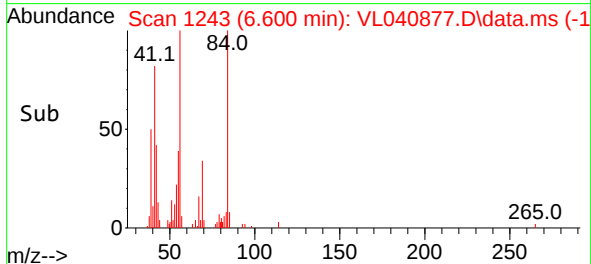
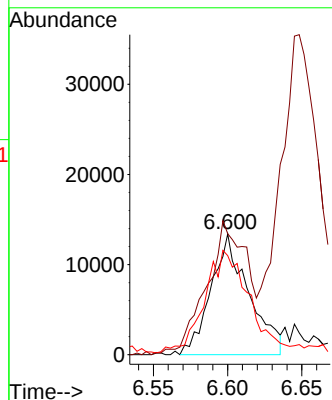
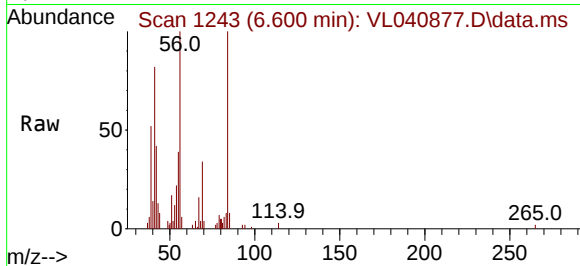




#30
Cyclohexane
Concen: 0.283 ppbv
RT: 6.600 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

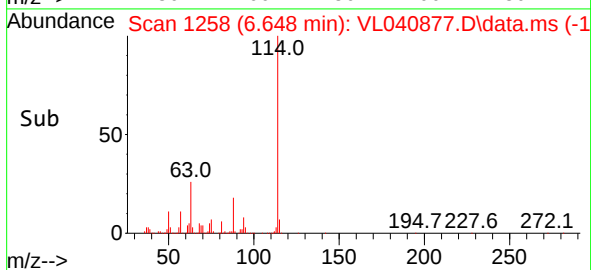
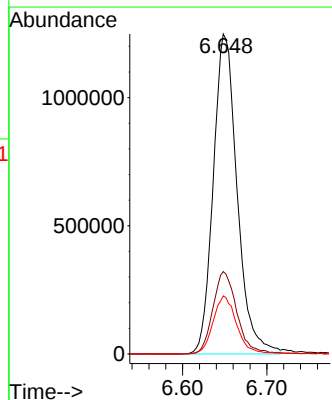
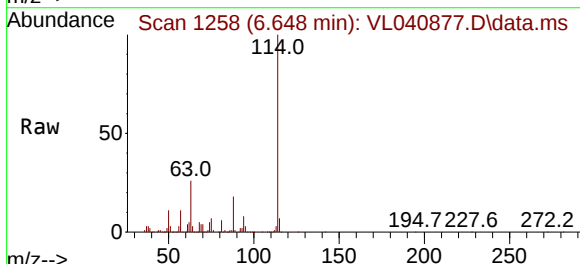
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

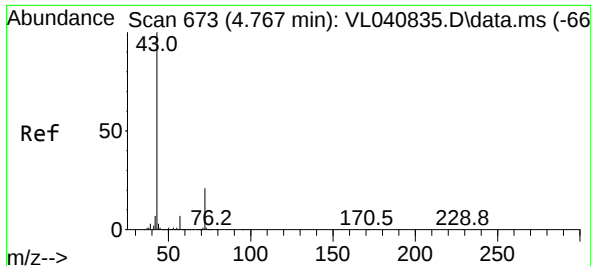
Tgt Ion: 84 Resp: 23775
Ion Ratio Lower Upper
84 100
56 113.6 109.3 163.9
41 101.6 71.4 107.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.016 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 114 Resp: 2454889
Ion Ratio Lower Upper
114 100
63 26.2 20.9 31.3
88 18.1 14.3 21.5

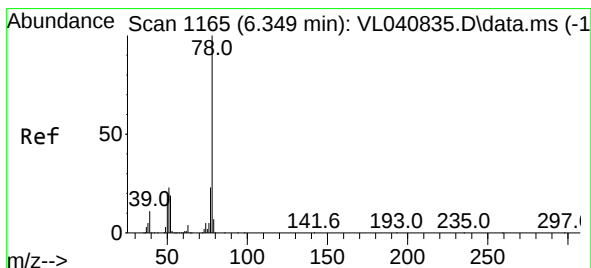
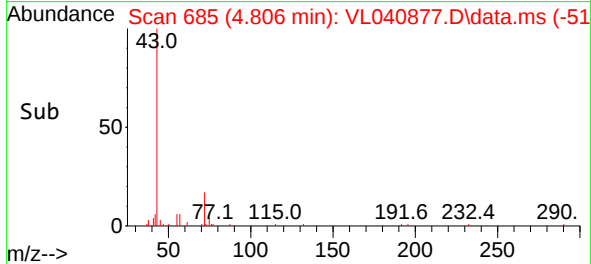
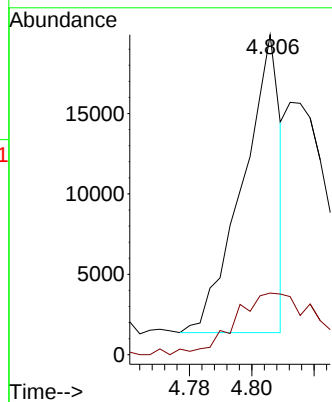
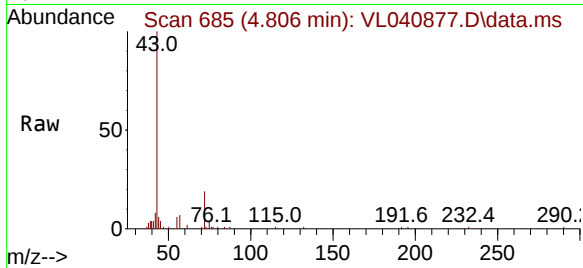




#34
2-Butanone
Concen: 0.123 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.039 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

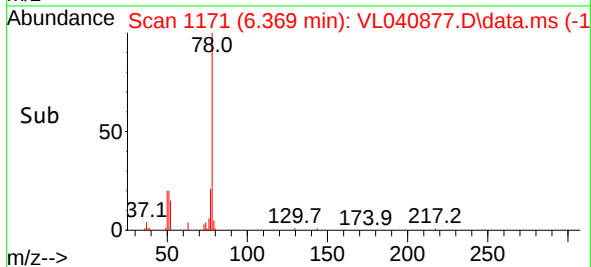
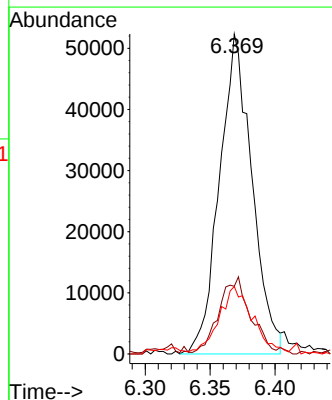
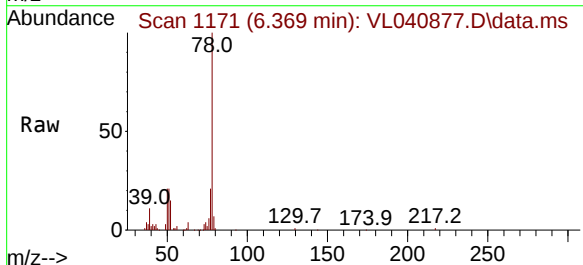
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

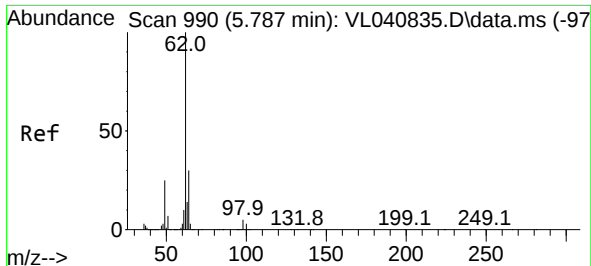
Tgt Ion: 43 Resp: 15443
Ion Ratio Lower Upper
43 100
72 54.2 17.2 25.8#



#36
Benzene
Concen: 0.457 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.019 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 78 Resp: 90974
Ion Ratio Lower Upper
78 100
77 21.0 18.4 27.6
50 19.3 16.2 24.2





#37

1,2-Dichloroethane

Concen: 0.041 ppbv

RT: 5.812 min Scan# 990

Delta R.T. 0.026 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Instrument :

MSVOA_1

ClientSampleId :

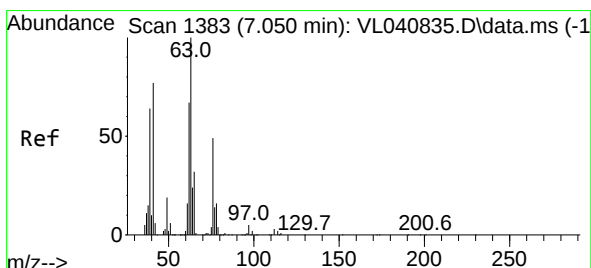
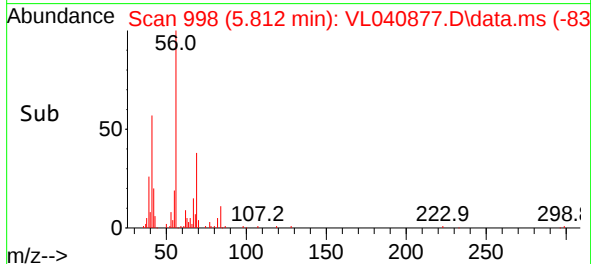
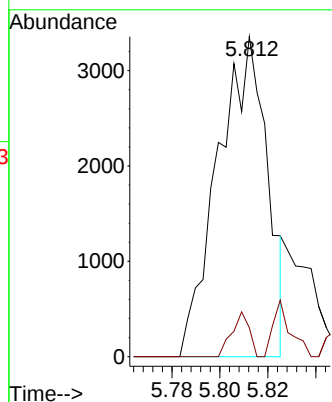
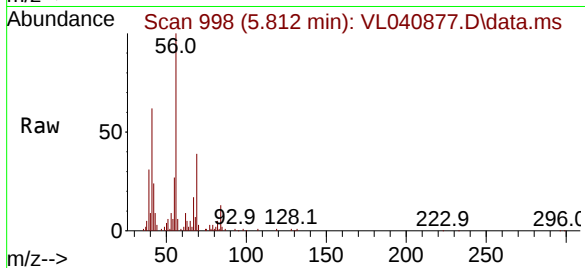
SH-SS-1

Tgt Ion: 62 Resp: 4801

Ion Ratio Lower Upper

62 100

98 11.1 4.6 6.8#



#39

1,2-Dichloropropane

Concen: 7.995 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.402 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

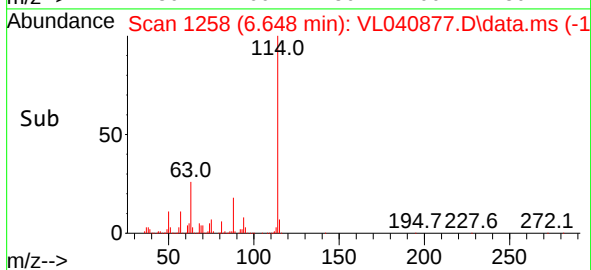
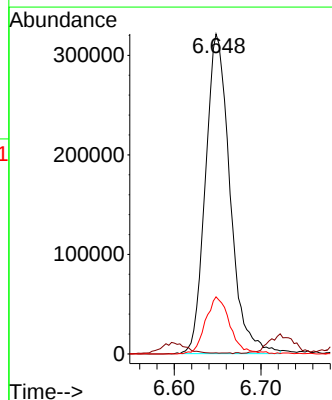
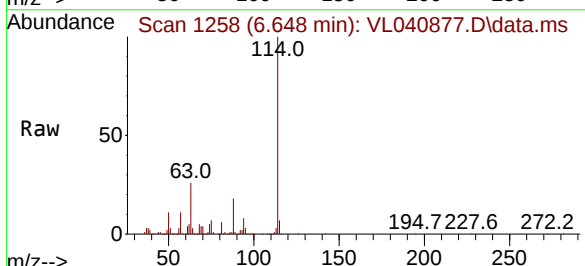
Tgt Ion: 63 Resp: 631612

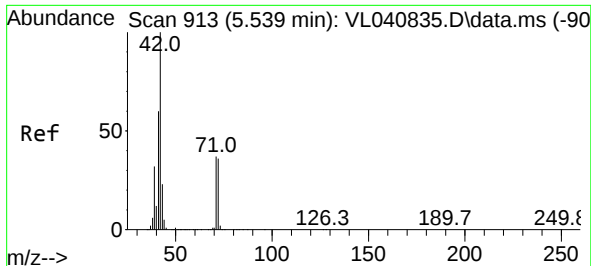
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 17.7 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.040 ppbv

RT: 5.311 min Scan# 84

Delta R.T. -0.228 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Instrument :

MSVOA_1

ClientSampleId :

SH-SS-1

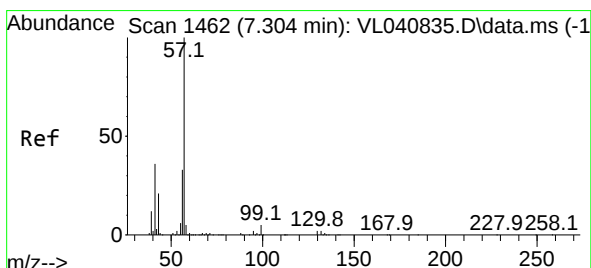
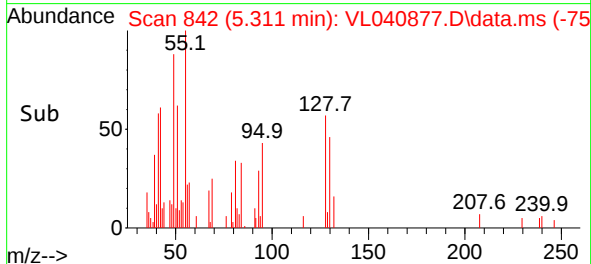
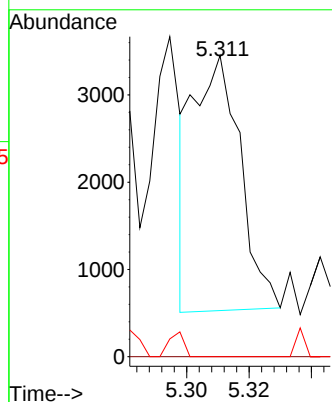
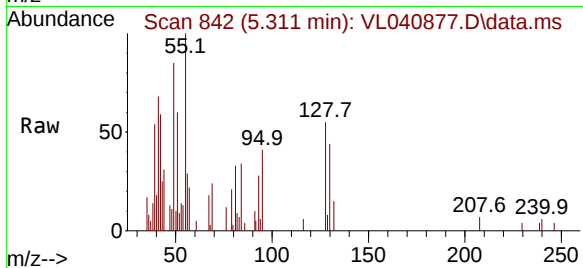
Tgt Ion: 42 Resp: 3092

Ion Ratio Lower Upper

42 100

72 1.3 30.8 46.2#

71 0.0 30.0 45.0#



#44

2,2,4-Trimethylpentane

Concen: 0.484 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.016 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

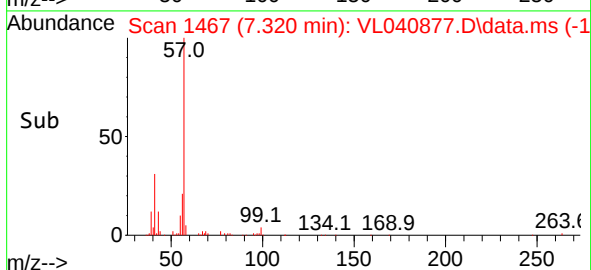
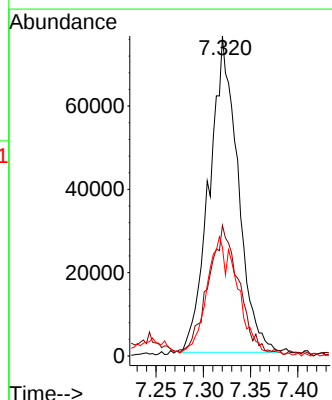
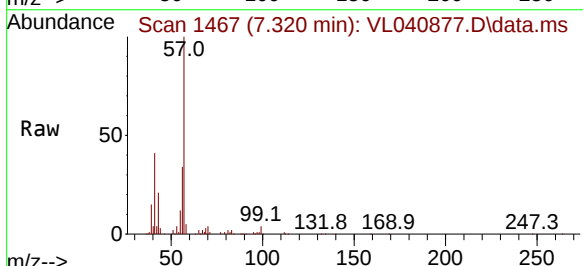
Tgt Ion: 57 Resp: 160072

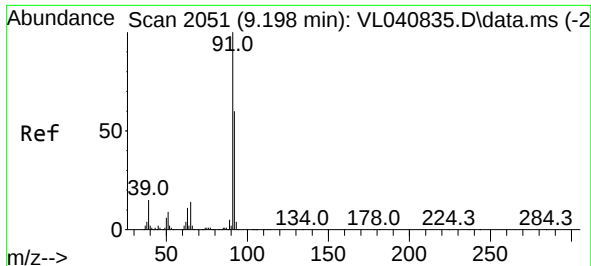
Ion Ratio Lower Upper

57 100

41 46.4 29.0 43.6#

56 42.2 25.2 37.8#

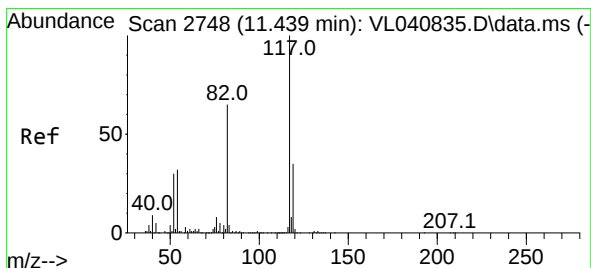
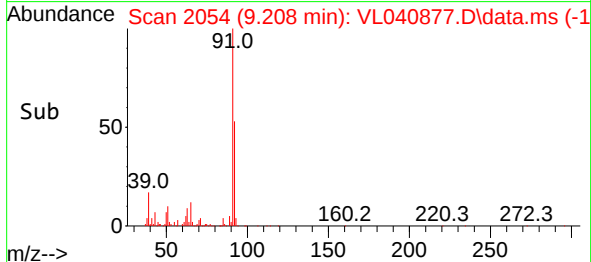
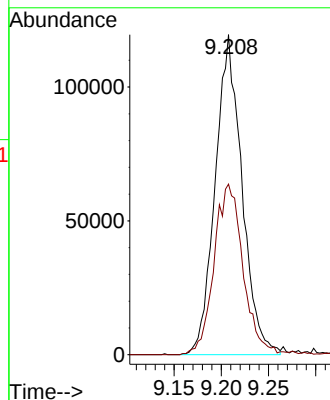
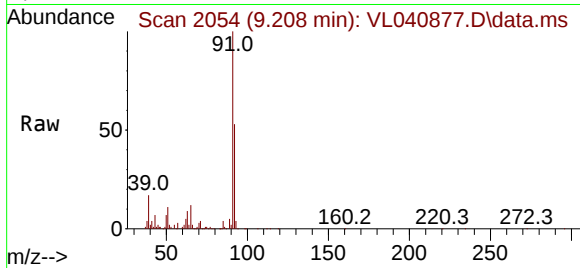




#53
Toluene
Concen: 1.072 ppbv
RT: 9.208 min Scan# 2051
Delta R.T. 0.010 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

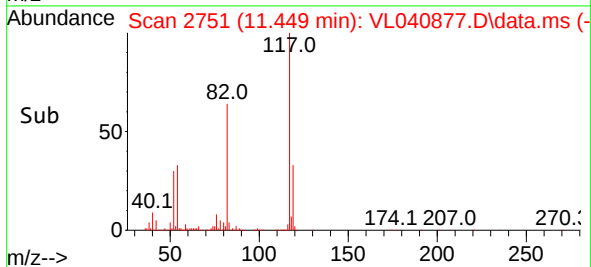
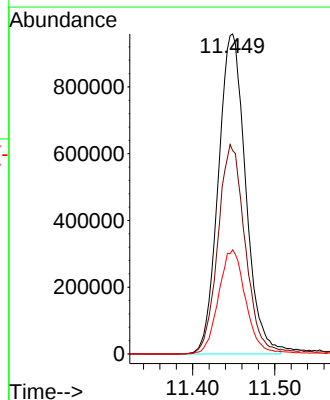
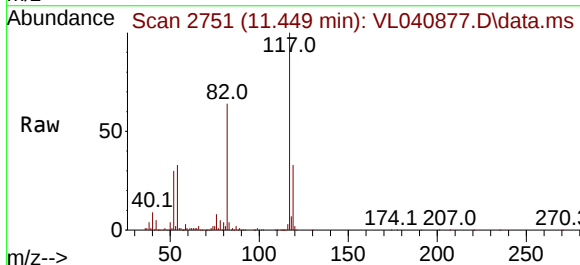
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-1

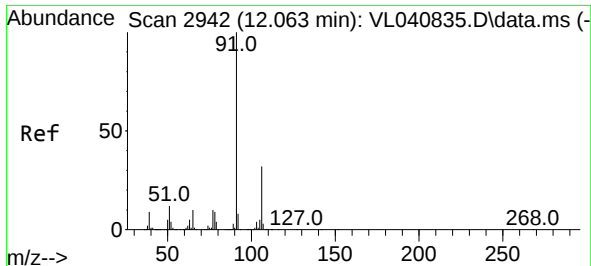
Tgt Ion: 91 Resp: 235011
Ion Ratio Lower Upper
91 100
92 58.3 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.010 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 117 Resp: 2213962
Ion Ratio Lower Upper
117 100
82 67.2 50.6 75.8
119 32.9 23.3 34.9





#58

Ethyl Benzene

Concen: 0.035 ppbv

RT: 12.076 min Scan# 2946

Delta R.T. 0.013 min

Lab File: VL040877.D

Acq: 15 Nov 2023 20:49

Instrument :

MSVOA_L

ClientSampleId :

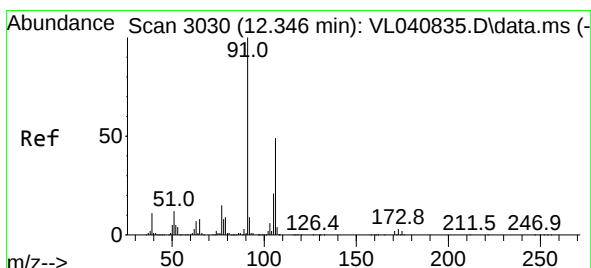
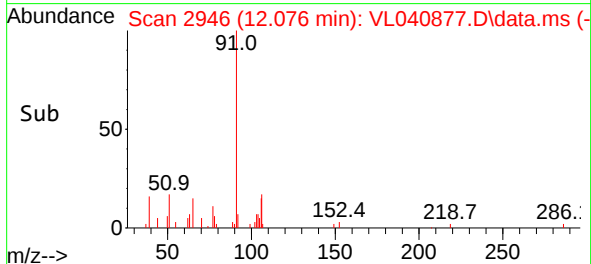
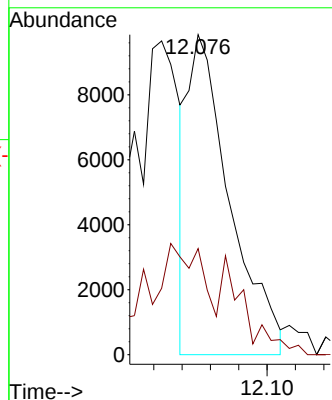
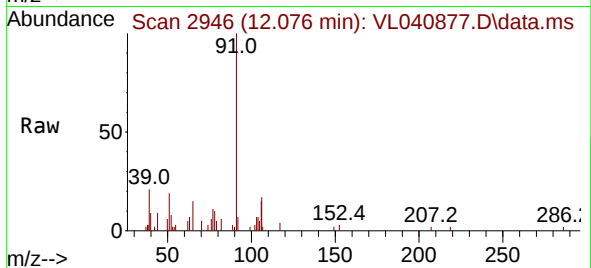
SH-SS-1

Tgt Ion: 91 Resp: 10195

Ion Ratio Lower Upper

91 100

106 30.8 25.2 37.8



#59

m/p-Xylene

Concen: 0.048 ppbv

RT: 12.359 min Scan# 3034

Delta R.T. 0.013 min

Lab File: VL040877.D

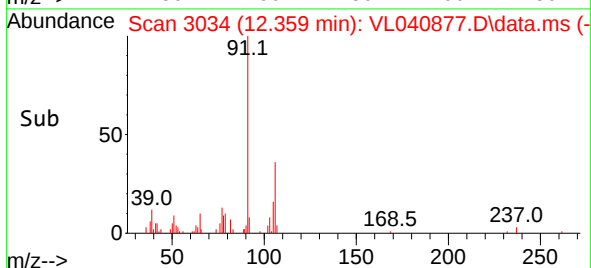
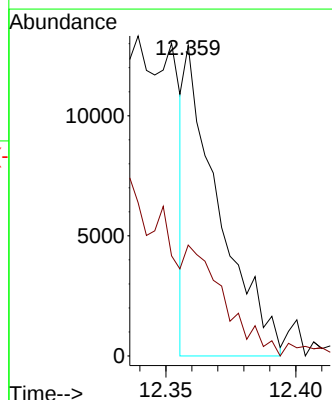
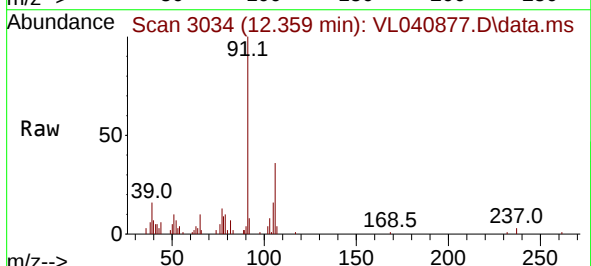
Acq: 15 Nov 2023 20:49

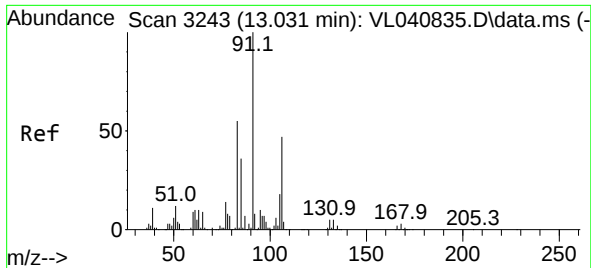
Tgt Ion: 91 Resp: 11767

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.0#

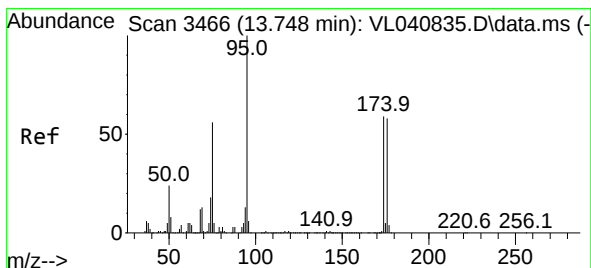
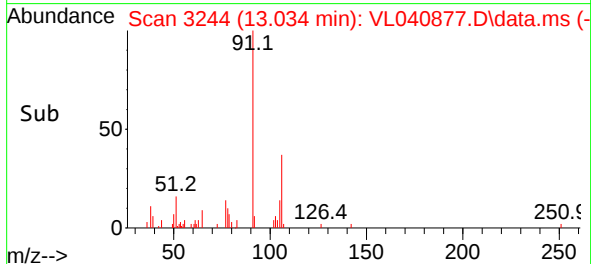
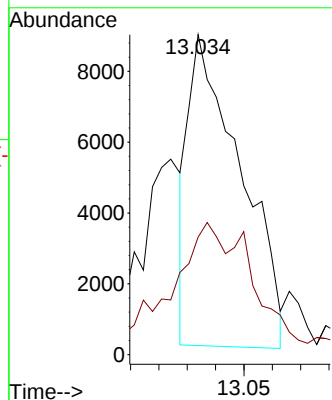
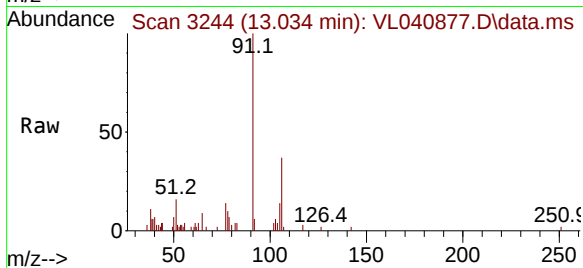




#60
o-Xylene
Concen: 0.048 ppbv
RT: 13.034 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Instrument :
MSVOA_1
ClientSampleId :
SH-SS-1

Tgt Ion: 91 Resp: 11259
Ion Ratio Lower Upper
91 100
106 70.5 22.9 68.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.049 ppbv
RT: 13.754 min Scan# 3468
Delta R.T. 0.006 min
Lab File: VL040877.D
Acq: 15 Nov 2023 20:49

Tgt Ion: 95 Resp: 1741941
Ion Ratio Lower Upper
95 100
174 59.4 47.5 71.3
175 4.5 3.6 5.4

