

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040820.D
 Acq On : 8 Nov 2023 21:13
 Operator : SY/MD
 Sample : 05276-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-2

Quant Time: Nov 09 00:33:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

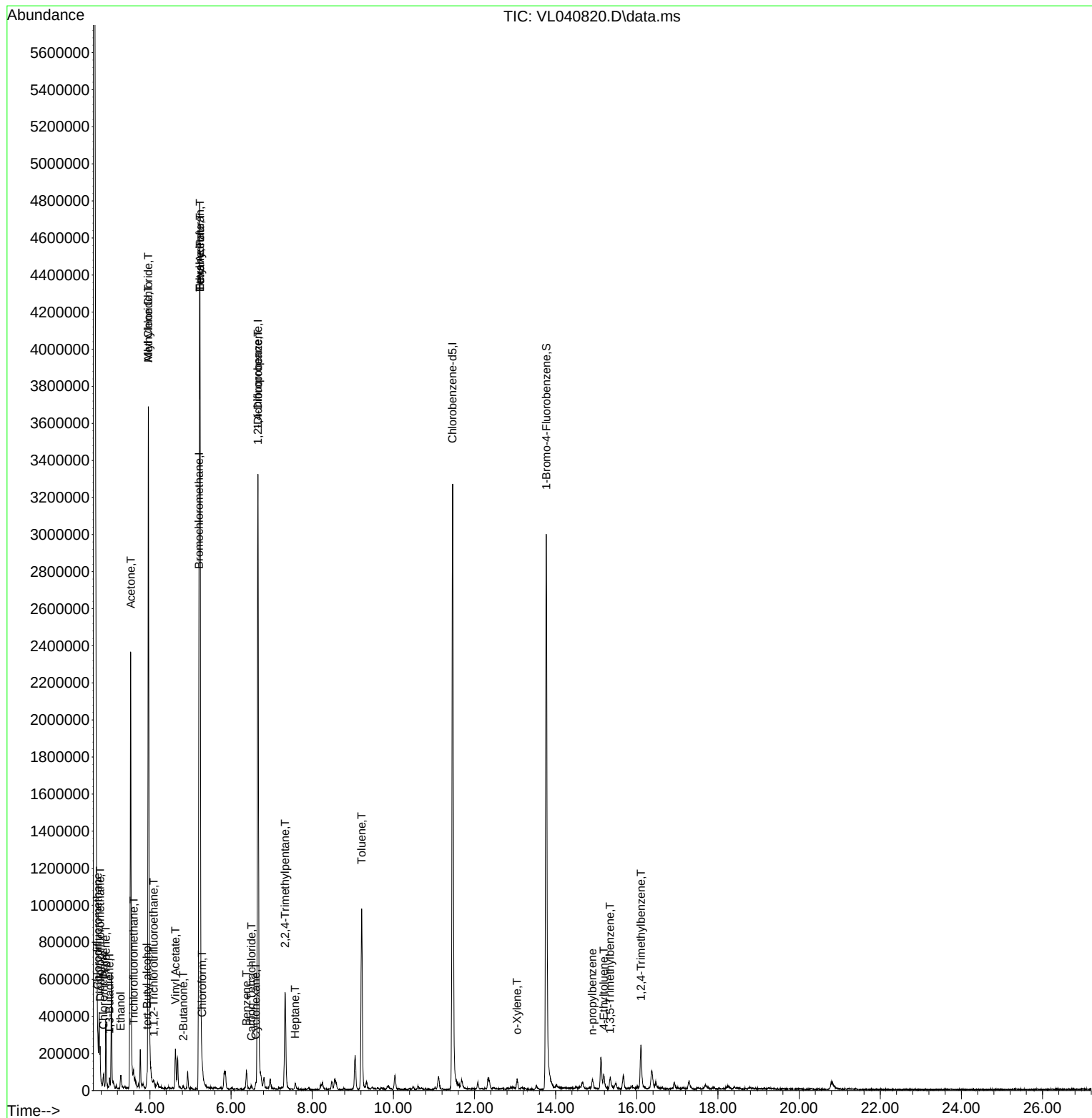
Internal Standards						
1) Bromochloromethane	5.208	49	980686	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2524695	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2157800	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1566102	9.864	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.771	85	107600	0.623	ppbv	100
3) Chlorodifluoromethane	2.716	51	94649	0.657	ppbv #	88
4) Chloromethane	2.857	50	52842	0.929	ppbv	93
9) Propene	2.912	41	87812	1.640	ppbv	100
10) Heptane	7.581	43	6193	0.046	ppbv #	27
11) Trichlorofluoromethane	3.597	101	35978	0.270	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.095	101	7921	0.083	ppbv	96
13) Ethanol	3.279	45	36266	3.001	ppbv #	12
15) Acetone	3.526	43	1144695	11.291	ppbv #	70
16) 1,3-Butadiene	3.002	39	12988	0.244	ppbv #	61
17) tert-Butyl alcohol	3.928	59	41899	0.403	ppbv #	71
20) Methylene Chloride	3.960	84	1223565	28.974	ppbv	99
21) Allyl Chloride	3.960	41	51279	0.767	ppbv #	36
23) Vinyl Acetate	4.629	43	114848	0.889	ppbv #	1
25) Ethyl Acetate	5.230	43	1256703	5.657	ppbv #	76
26) Hexane	5.230	57	1785652	17.589	ppbv #	41
29) Chloroform	5.288	83	9400	0.064	ppbv #	58
30) Cyclohexane	6.606	84	6382	0.074	ppbv #	20
34) 2-Butanone	4.819	43	23904	0.209	ppbv	93
35) Carbon Tetrachloride	6.504	117	5842	0.041	ppbv #	79
36) Benzene	6.378	78	74747	0.385	ppbv #	95
39) 1,2-Dichloropropane	6.664	63	630670	8.313	ppbv #	26
41) Tetrahydrofuran	5.230	42	662488	8.371	ppbv #	50
44) 2,2,4-Trimethylpentane	7.330	57	272496	0.830	ppbv #	42
53) Toluene	9.217	91	619152	2.679	ppbv	99
60) o-Xylene	13.050	91	21309	0.100	ppbv #	60
64) n-propylbenzene	14.902	120	3388	0.038	ppbv #	1
72) 4-Ethyltoluene	15.182	105	55579	0.223	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.342	105	9749	0.044	ppbv #	44
74) 1,2,4-Trimethylbenzene	16.101	105	187398	0.781	ppbv #	68

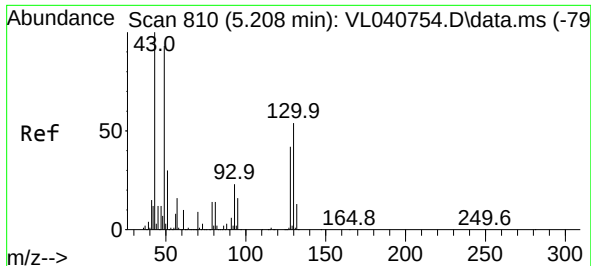
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Nov 09 00:25:02 2023
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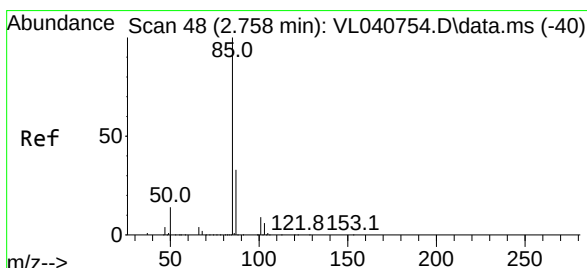
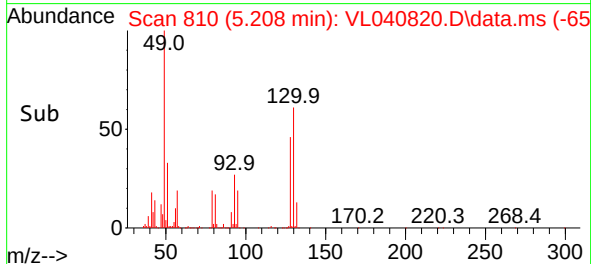
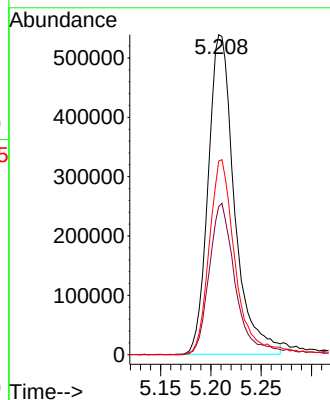
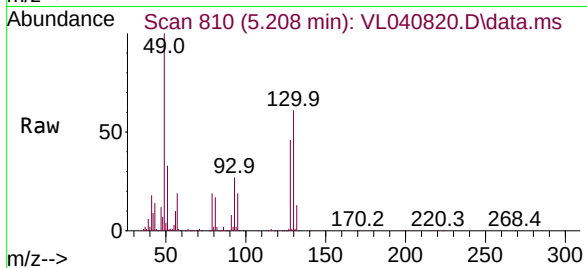




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL040820.D
 Acq: 8 Nov 2023 21:13

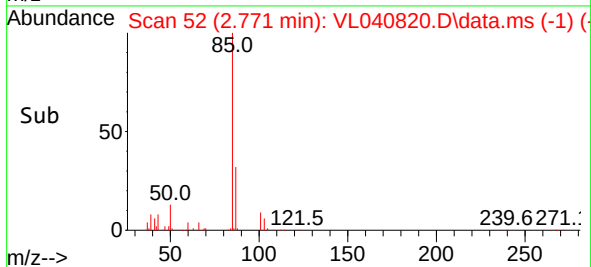
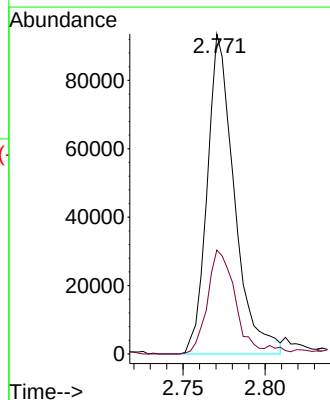
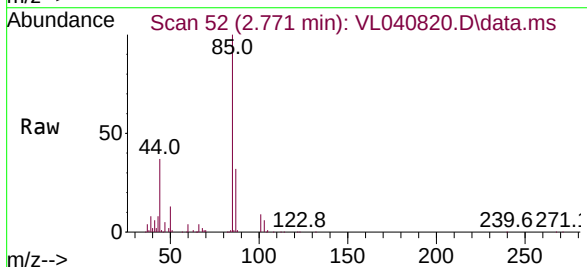
Instrument :
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 SH-IA-2

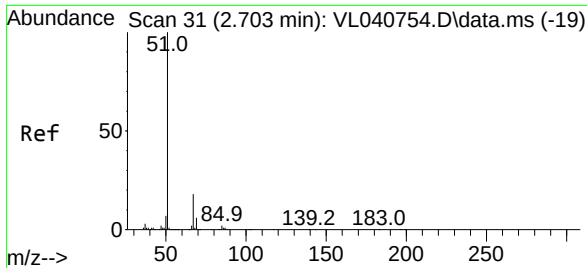
Tgt Ion: 49 Resp: 980686
 Ion Ratio Lower Upper
 49 100
 128 48.6 23.9 71.7
 130 62.0 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.623 ppbv
 RT: 2.771 min Scan# 52
 Delta R.T. 0.000 min
 Lab File: VL040820.D
 Acq: 8 Nov 2023 21:13

Tgt Ion: 85 Resp: 107600
 Ion Ratio Lower Upper
 85 100
 87 32.5 26.0 39.0

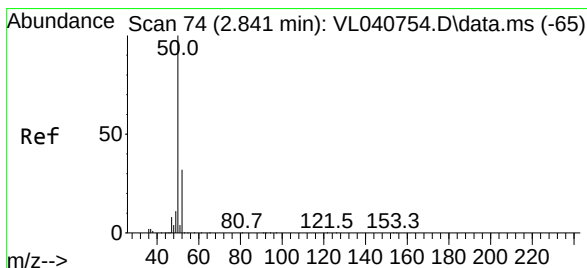
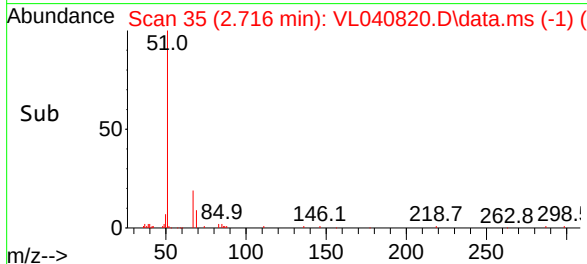
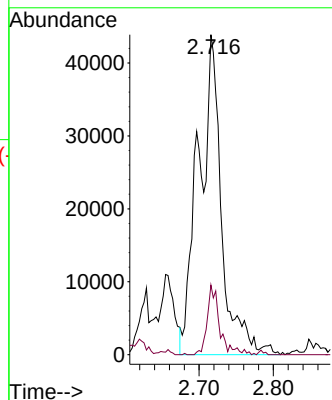
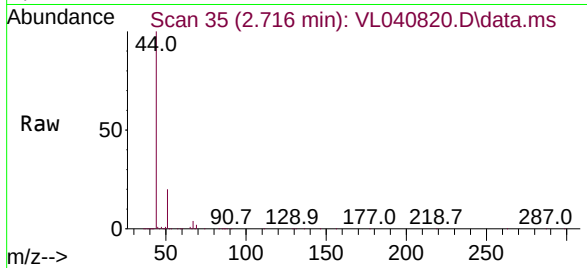




#3
 Chlorodifluoromethane
 Concen: 0.657 ppbv
 RT: 2.716 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VL040820.D
 Acq: 8 Nov 2023 21:13

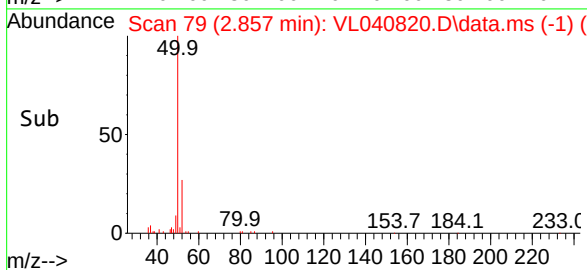
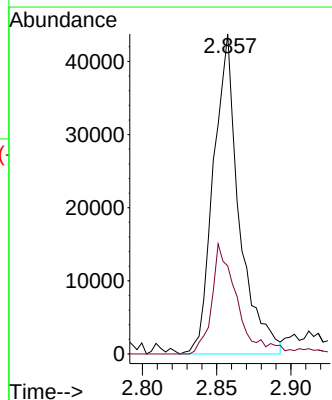
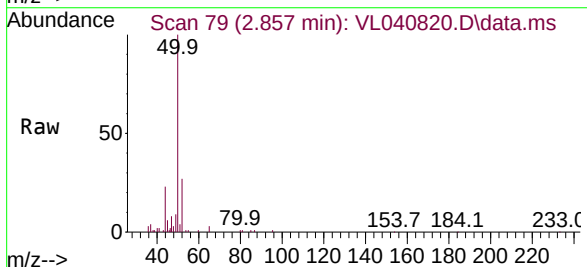
Instrument :
 MSVOA_1
 ClientSampleId :
 SH-IA-2

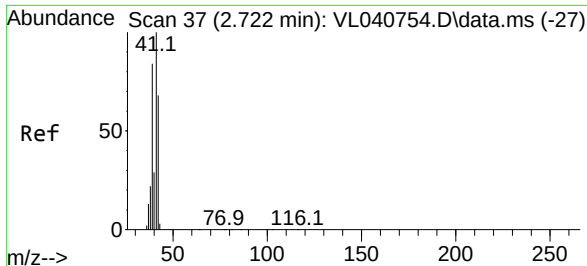
Tgt Ion: 51 Resp: 94649
 Ion Ratio Lower Upper
 51 100
 67 12.0 13.8 20.6#



#4
 Chloromethane
 Concen: 0.929 ppbv
 RT: 2.857 min Scan# 79
 Delta R.T. 0.003 min
 Lab File: VL040820.D
 Acq: 8 Nov 2023 21:13

Tgt Ion: 50 Resp: 52842
 Ion Ratio Lower Upper
 50 100
 52 27.5 25.3 37.9

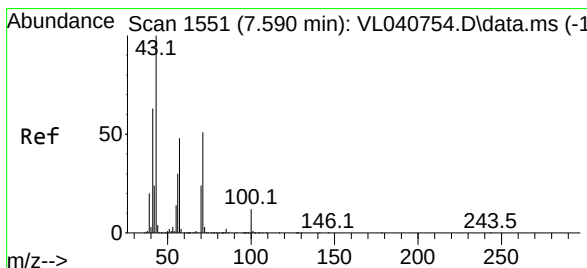
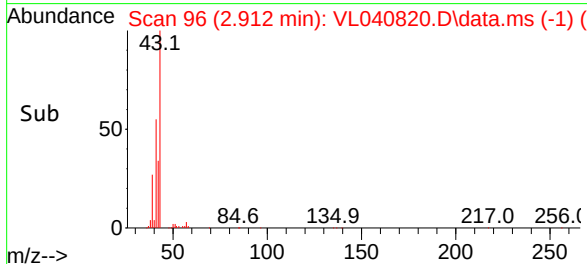
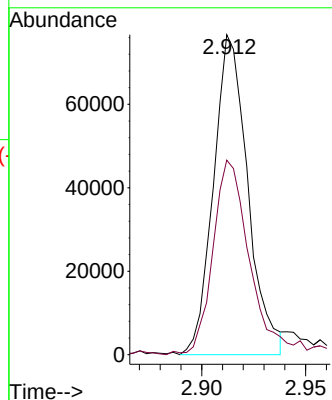
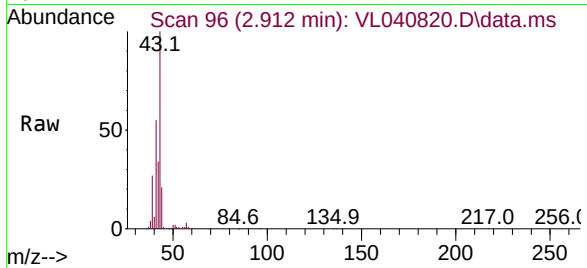




#9
Propene
Concen: 1.640 ppbv
RT: 2.912 min Scan# 90
Delta R.T. 0.177 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

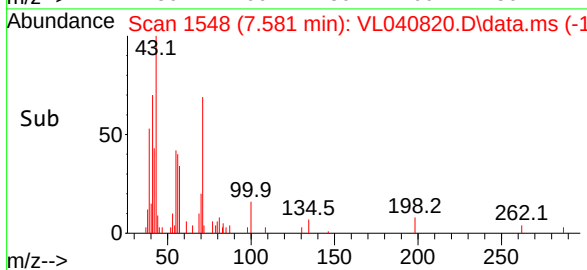
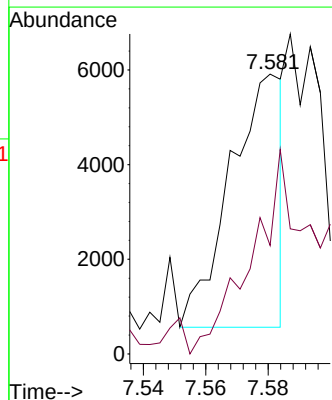
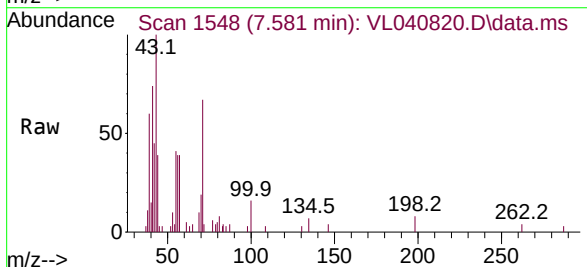
Instrument :
MSVOA_1
ClientSampleId :
SH-IA-2

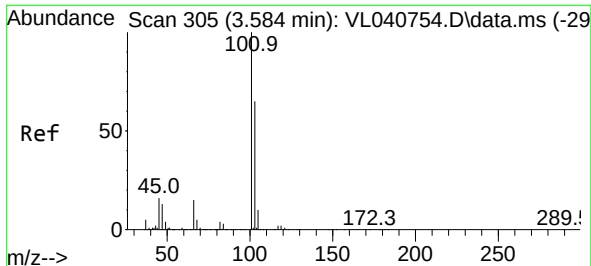
Tgt Ion: 41 Resp: 87812
Ion Ratio Lower Upper
41 100
42 71.1 57.1 85.7



#10
Heptane
Concen: 0.046 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. -0.006 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 43 Resp: 6193
Ion Ratio Lower Upper
43 100
57 0.0 40.0 60.0#

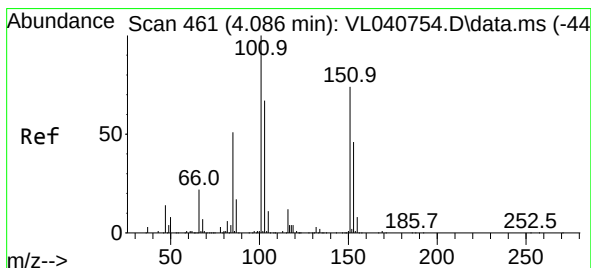
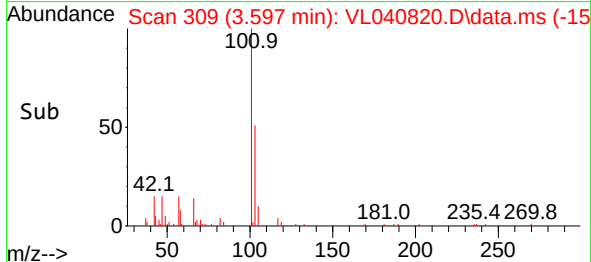
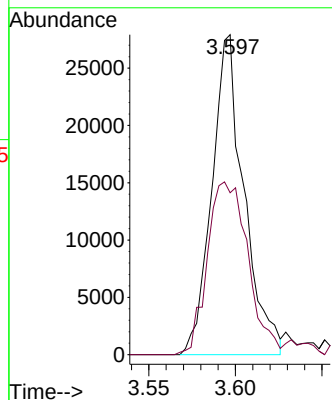
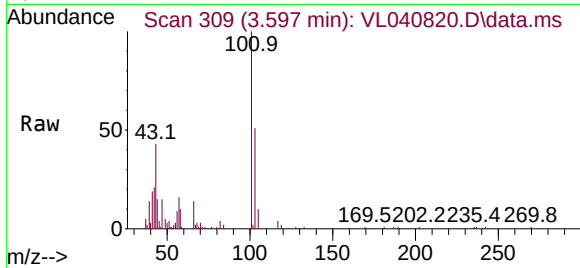




#11
Trichlorofluoromethane
Concen: 0.270 ppbv
RT: 3.597 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

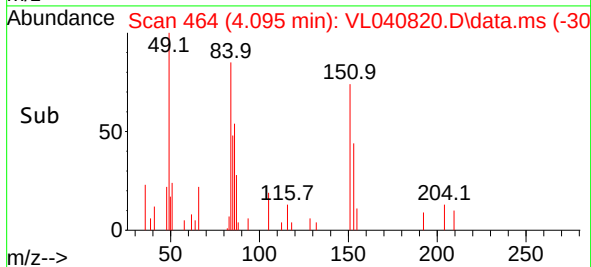
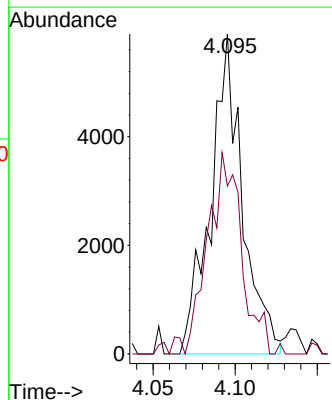
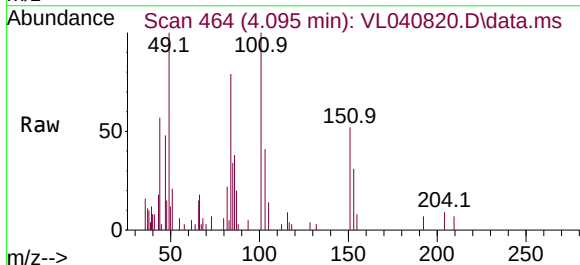
Instrument :
MSVOA_1
ClientSampleId :
SH-IA-2

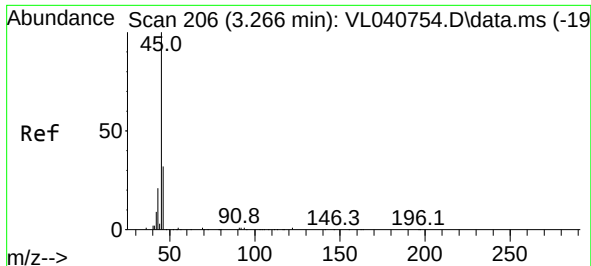
Tgt Ion:101 Resp: 35978
Ion Ratio Lower Upper
101 100
103 49.8 52.2 78.2#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.083 ppbv
RT: 4.095 min Scan# 464
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion:101 Resp: 7921
Ion Ratio Lower Upper
101 100
151 68.9 58.1 87.1

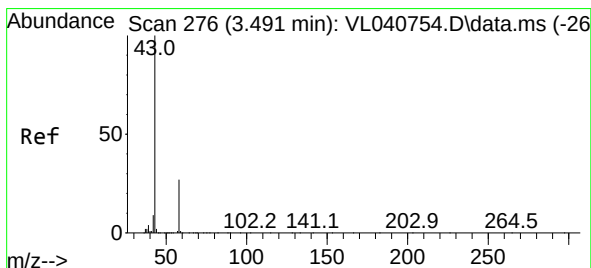
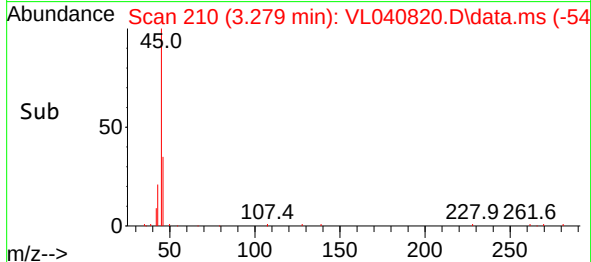
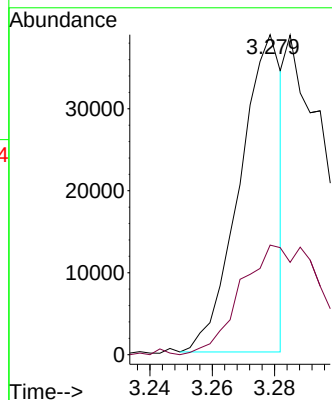
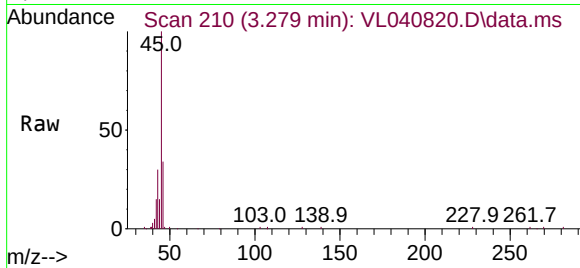




#13
Ethanol
Concen: 3.001 ppbv
RT: 3.279 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

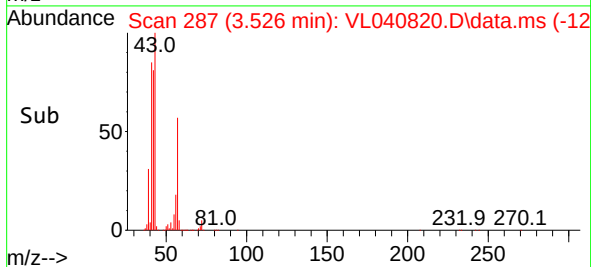
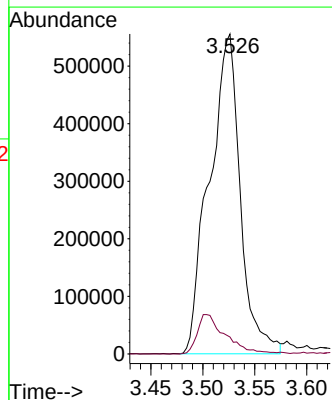
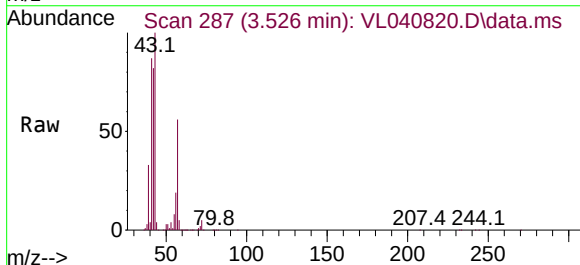
Instrument :
MSVOA_1
ClientSampleId :
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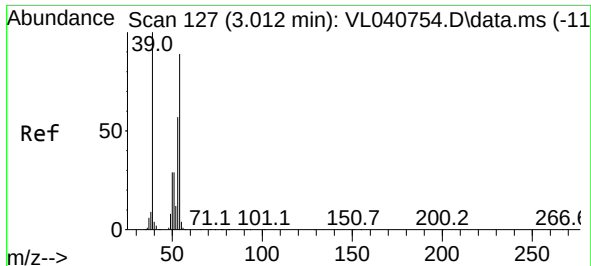
Tgt Ion: 45 Resp: 36266
Ion Ratio Lower Upper
45 100
46 88.3 14.6 58.2#



#15
Acetone
Concen: 11.291 ppbv
RT: 3.526 min Scan# 287
Delta R.T. 0.026 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 43 Resp: 1144695
Ion Ratio Lower Upper
43 100
58 11.4 21.6 32.4#

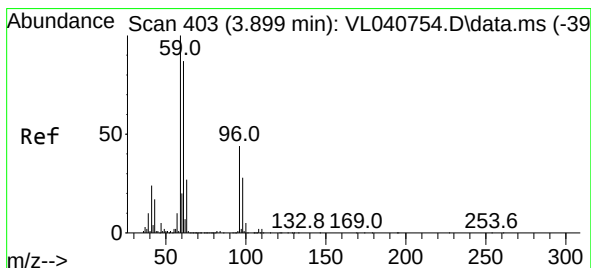
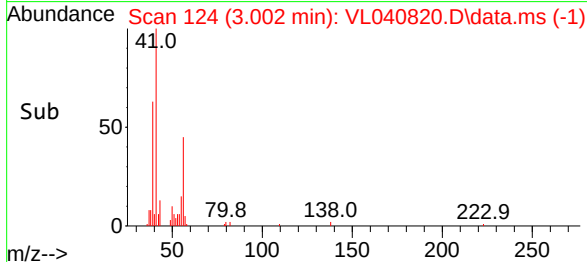
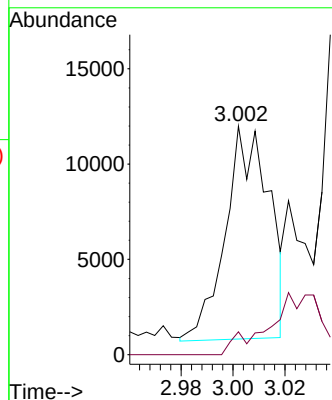
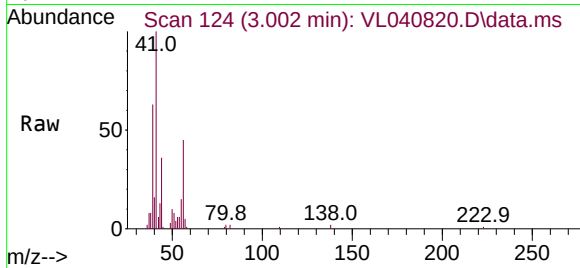




#16
1,3-Butadiene
Concen: 0.244 ppbv
RT: 3.002 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

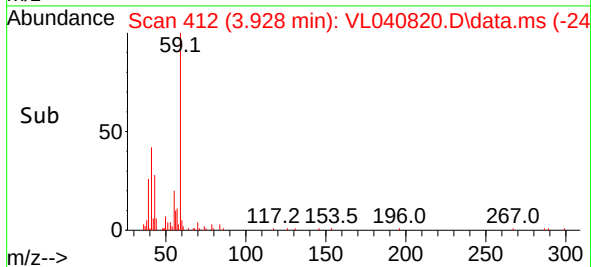
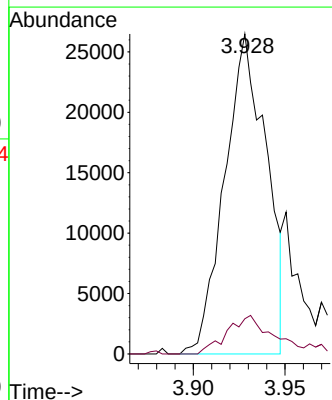
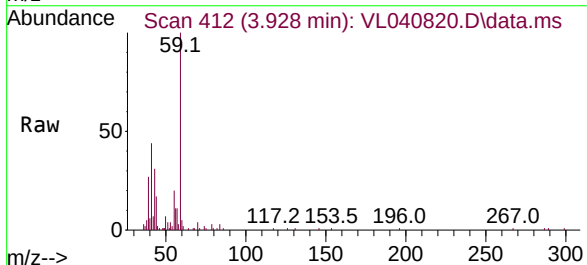
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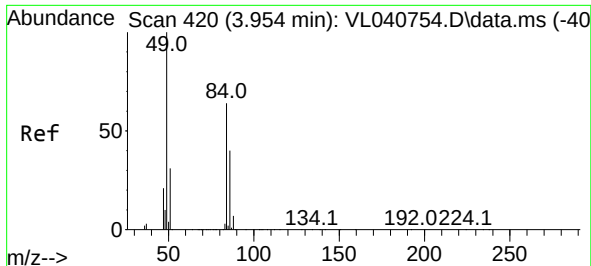
Tgt Ion: 39 Resp: 12988
Ion Ratio Lower Upper
39 100
54 44.8 63.0 94.6#



#17
tert-Butyl alcohol
Concen: 0.403 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.023 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 59 Resp: 41899
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#20

Methylene Chloride

Concen: 28.974 ppbv

RT: 3.960 min Scan# 422

Delta R.T. 0.000 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

Instrument :

MSVOA_L

ClientSampleId :

SH-IA-2

Tgt Ion: 84 Resp: 1223565

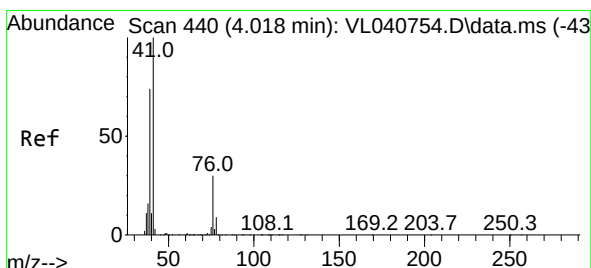
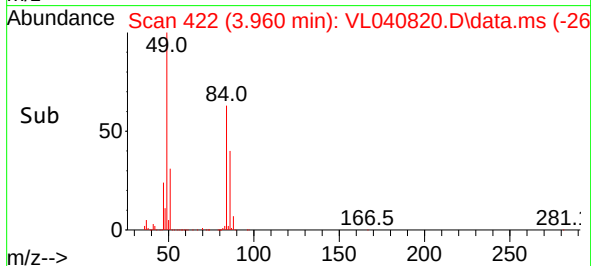
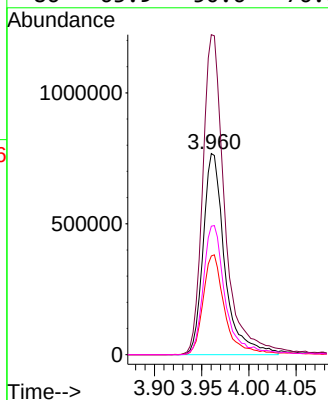
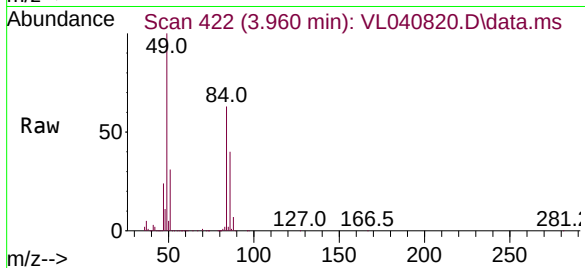
Ion Ratio Lower Upper

84 100

49 159.0 125.6 188.4

51 48.9 38.9 58.3

86 63.9 50.6 76.0



#21

Allyl Chloride

Concen: 0.767 ppbv

RT: 3.960 min Scan# 422

Delta R.T. -0.061 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

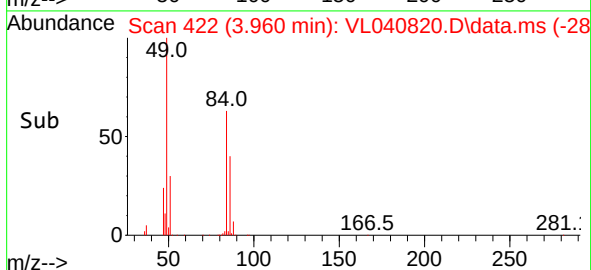
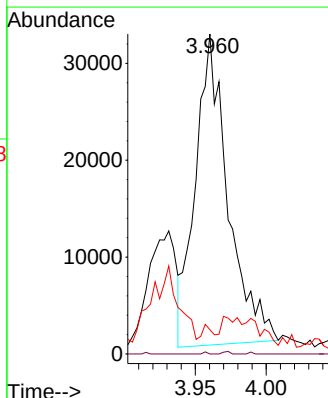
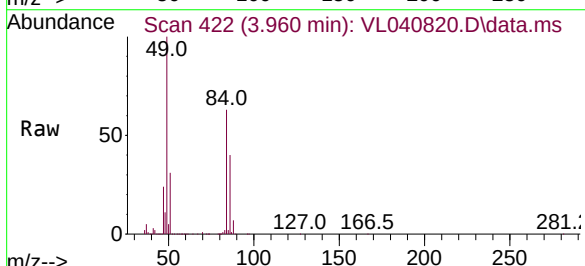
Tgt Ion: 41 Resp: 51279

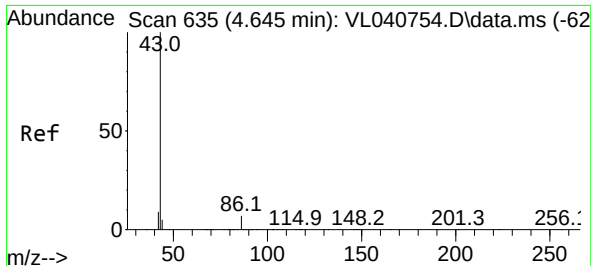
Ion Ratio Lower Upper

41 100

76 0.3 24.1 36.1#

39 20.7 63.8 95.6#

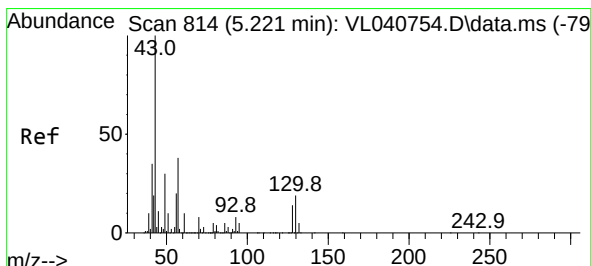
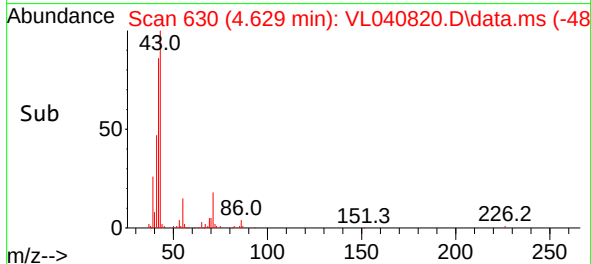
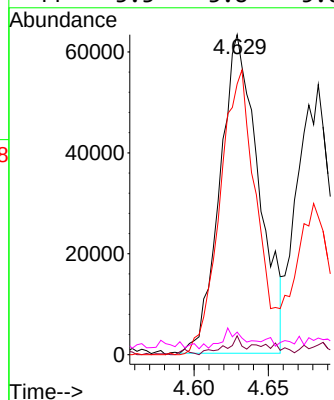
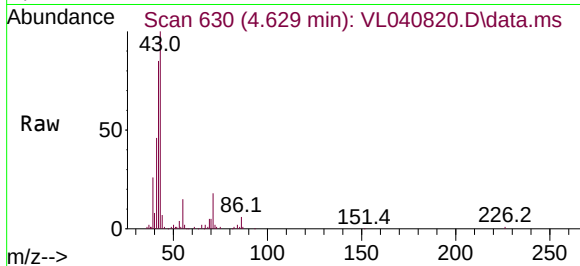




#23
Vinyl Acetate
Concen: 0.889 ppbv
RT: 4.629 min Scan# 61
Delta R.T. -0.019 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

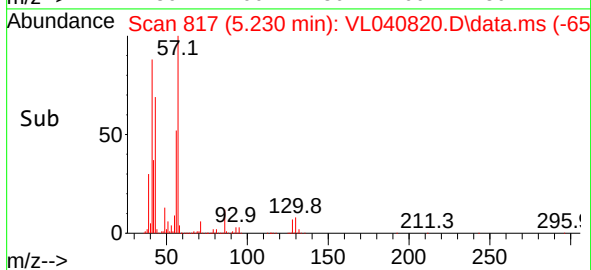
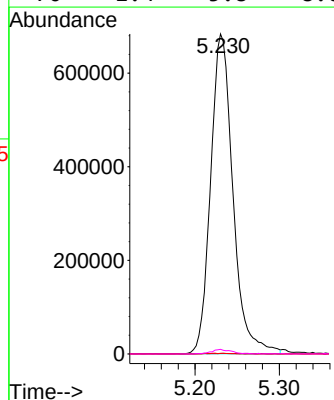
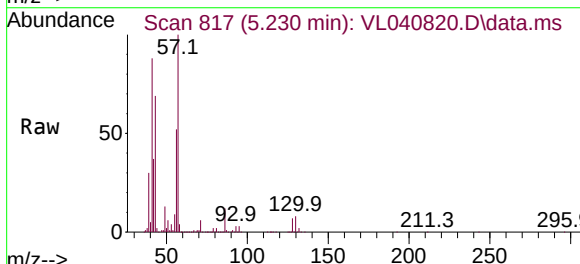
Instrument :
MSVOA_1
ClientSampleId :
SH-IA-2

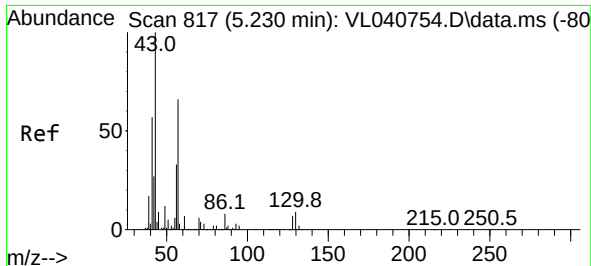
Tgt Ion: 43 Resp: 114848
Ion Ratio Lower Upper
43 100
86 5.0 4.9 7.3
42 85.0 7.8 11.6#
44 3.3 3.8 5.6#



#25
Ethyl Acetate
Concen: 5.657 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 43 Resp: 1256703
Ion Ratio Lower Upper
43 100
45 0.3 8.2 12.4#
61 0.2 8.2 12.2#
70 1.4 5.8 8.6#



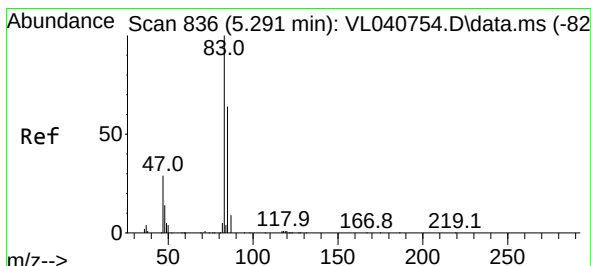
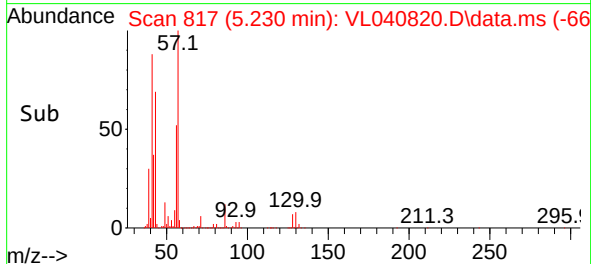
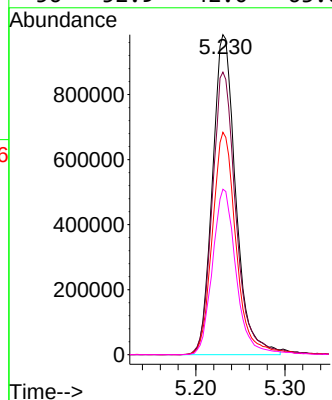
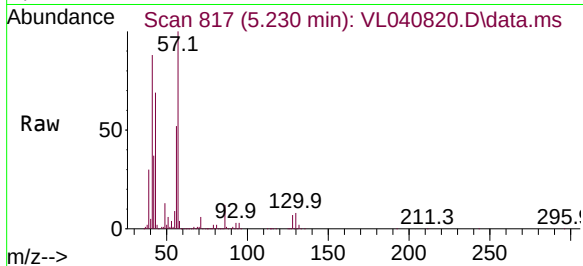


#26
Hexane
Concen: 17.589 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_1
ClientSampleId :
SH-IA-2

Tgt Ion: 57 Resp: 1785652

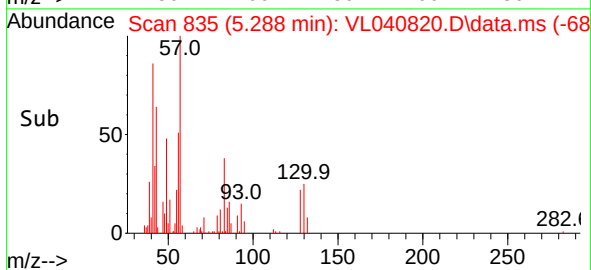
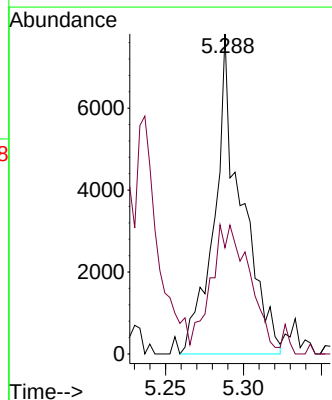
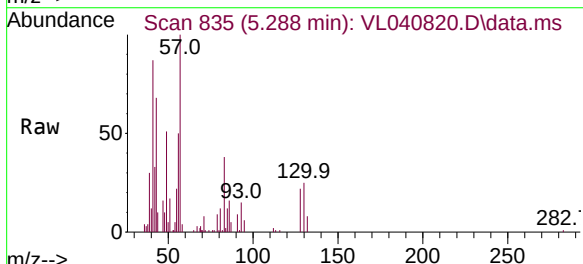
Ion	Ratio	Lower	Upper
57	100		
41	90.7	71.4	107.2
43	71.0	182.3	273.5#
56	52.9	42.0	63.0

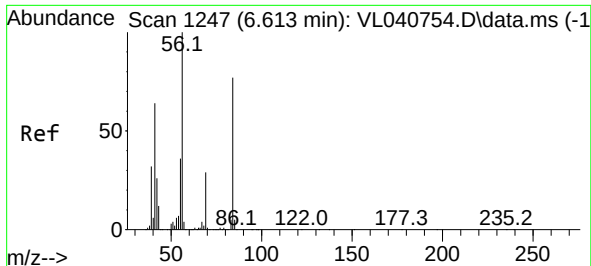


#29
Chloroform
Concen: 0.064 ppbv
RT: 5.288 min Scan# 835
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 83 Resp: 9400

Ion	Ratio	Lower	Upper
83	100		
85	31.1	51.3	76.9#



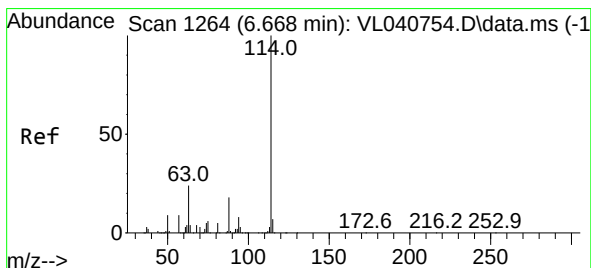
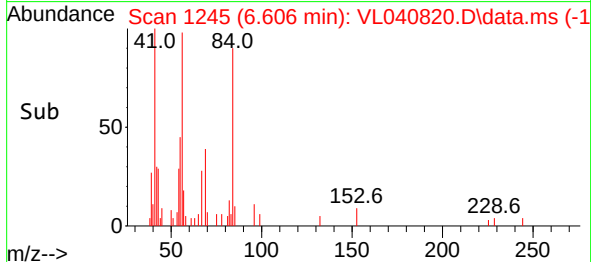
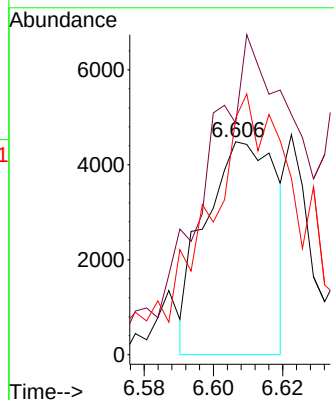
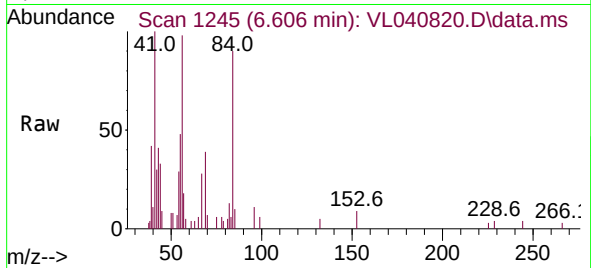


#30
Cyclohexane
Concen: 0.074 ppbv
RT: 6.606 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

Tgt Ion: 84 Resp: 6382

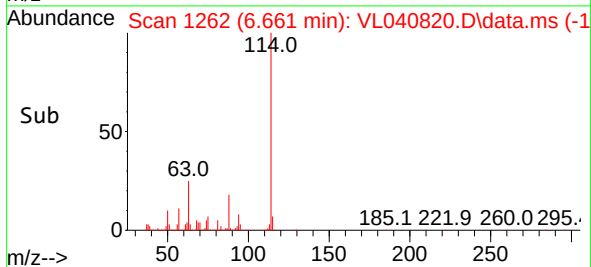
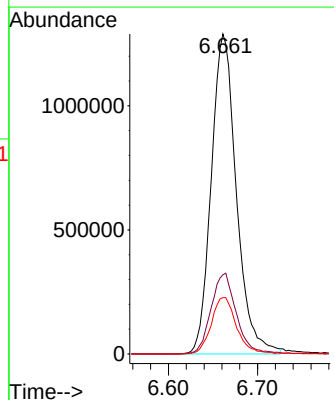
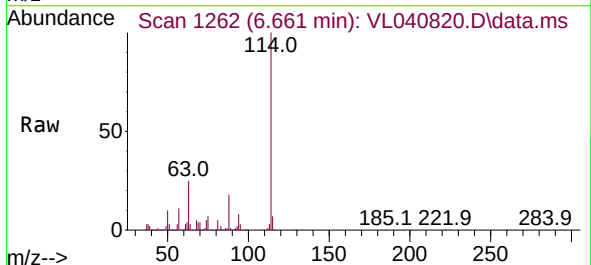
Ion	Ratio	Lower	Upper
84	100		
56	204.2	110.3	165.5#
41	195.2	67.4	101.2#

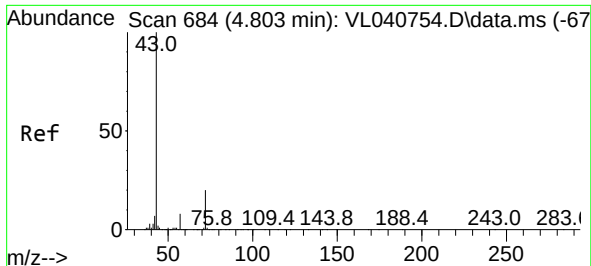


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 114 Resp: 2524695

Ion	Ratio	Lower	Upper
114	100		
63	25.7	19.8	29.6
88	17.9	14.2	21.2

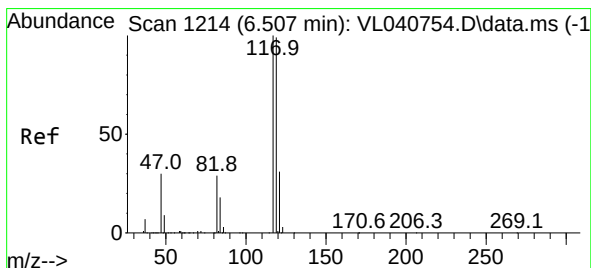
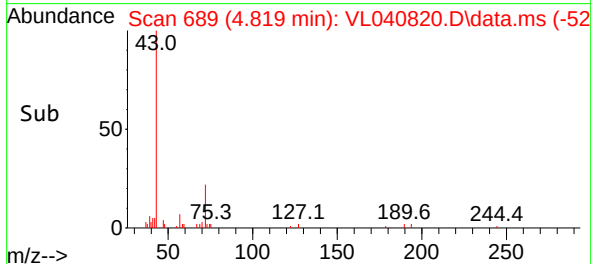
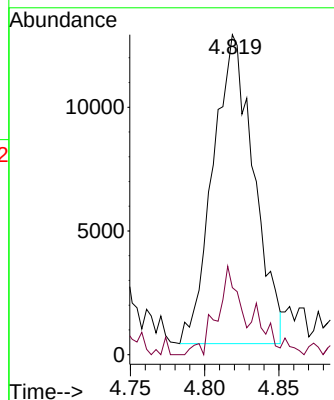
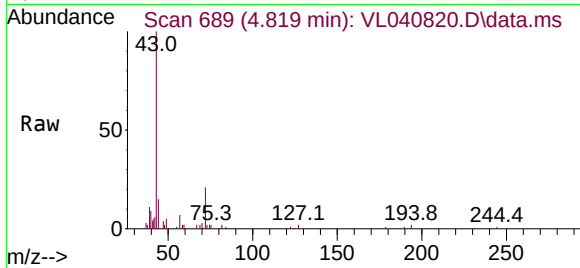




#34
2-Butanone
Concen: 0.209 ppbv
RT: 4.819 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

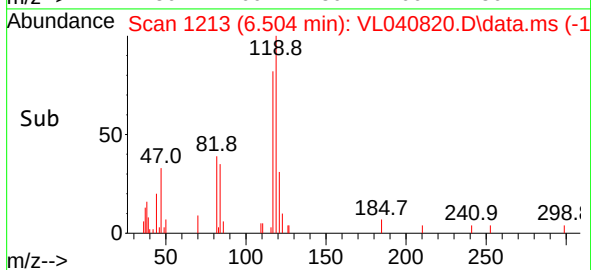
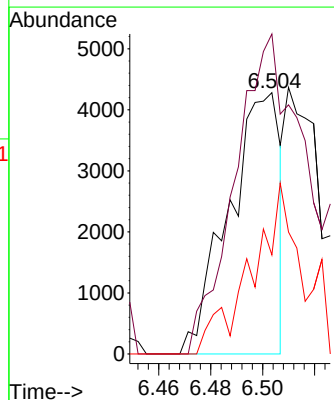
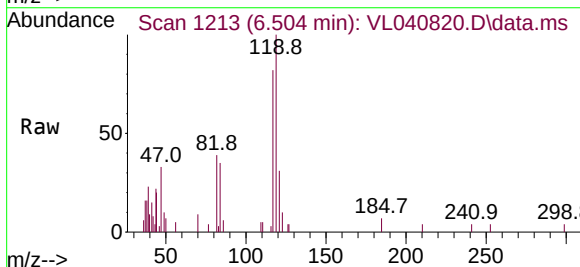
Instrument :
MSVOA_1
ClientSampleId :
SH-IA-2

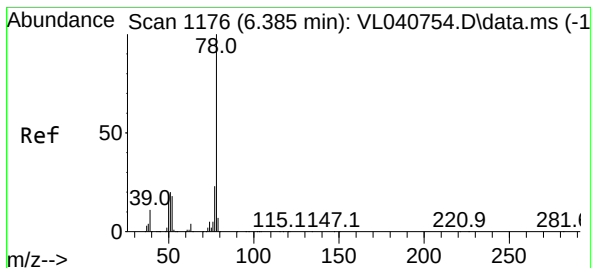
Tgt Ion: 43 Resp: 23904
Ion Ratio Lower Upper
43 100
72 24.1 16.8 25.2



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 6.504 min Scan# 1213
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 117 Resp: 5842
Ion Ratio Lower Upper
117 100
119 122.5 79.4 119.0#
121 37.9 25.0 37.4#





#36

Benzene

Concen: 0.385 ppbv

RT: 6.378 min Scan# 1176

Delta R.T. -0.003 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

Instrument :

MSVOA_1

ClientSampleId :

SH-IA-2

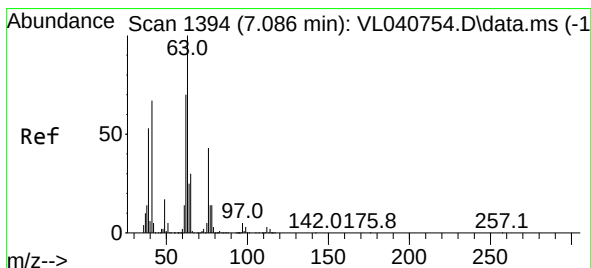
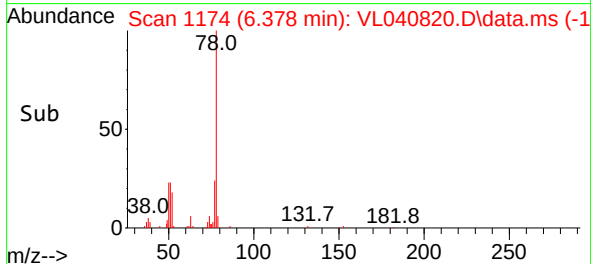
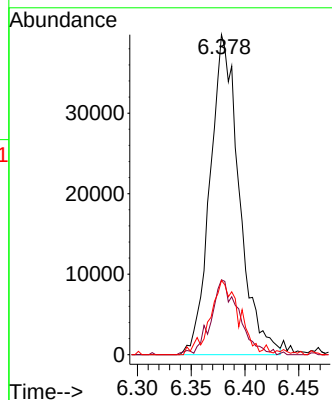
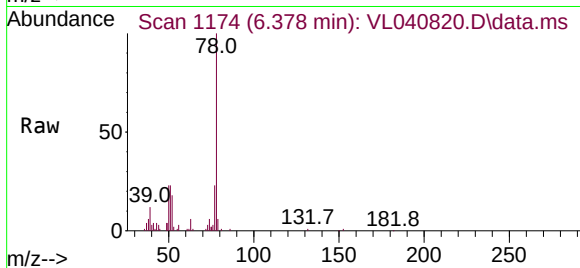
Tgt Ion: 78 Resp: 74747

Ion Ratio Lower Upper

78 100

77 23.0 18.4 27.6

50 23.2 15.0 22.4#



#39

1,2-Dichloropropane

Concen: 8.313 ppbv

RT: 6.664 min Scan# 1263

Delta R.T. -0.418 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

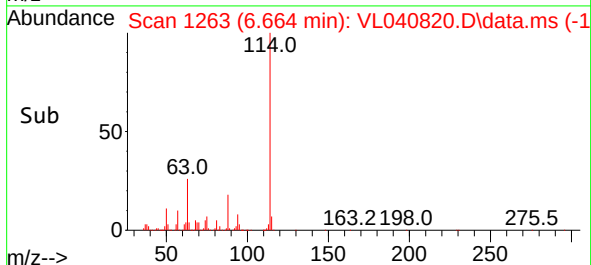
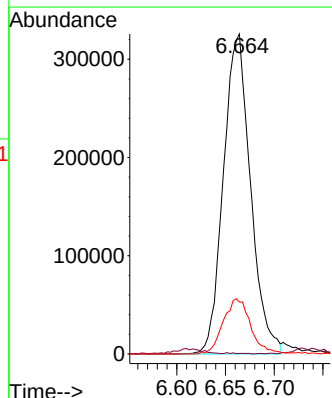
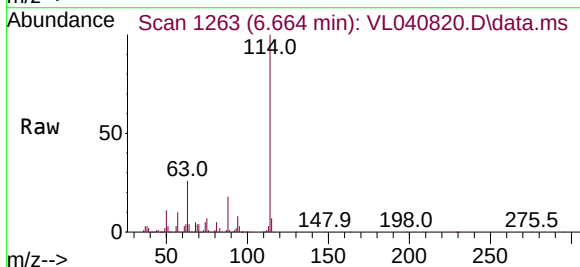
Tgt Ion: 63 Resp: 630670

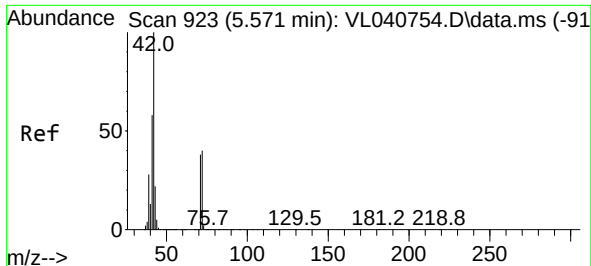
Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 16.2 55.7 83.5#

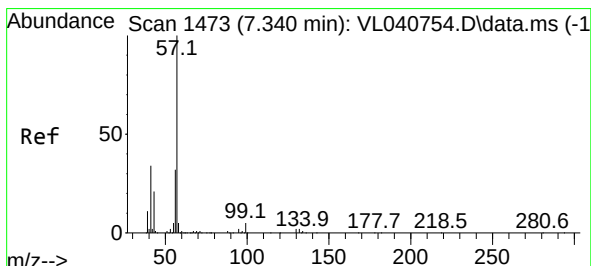
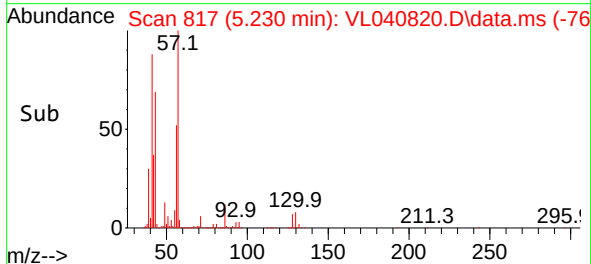
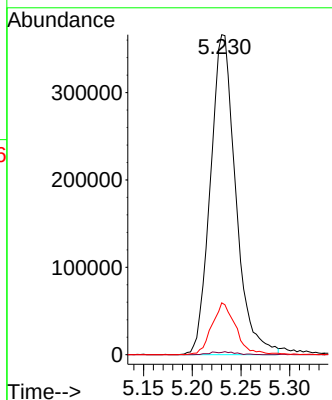
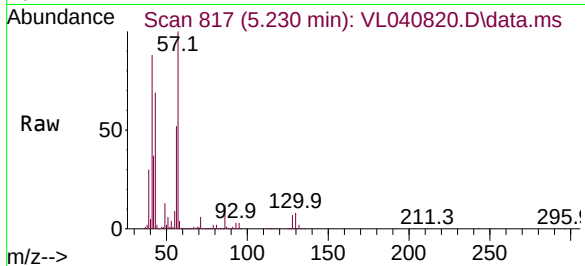




#41
Tetrahydrofuran
Concen: 8.371 ppbv
RT: 5.230 min Scan# 81
Delta R.T. -0.341 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

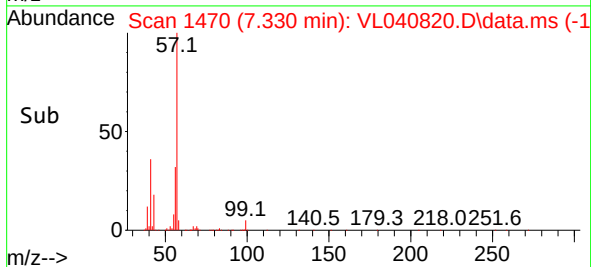
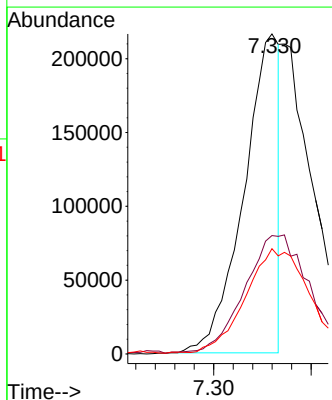
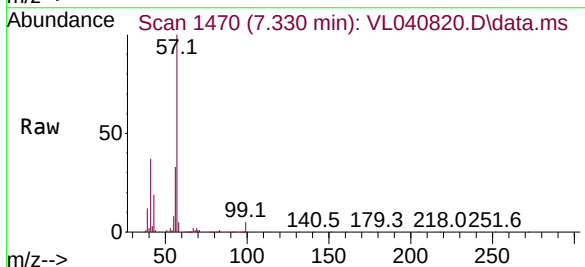
Instrument :
MSVOA_1
ClientSampleId :
SH-IA-2

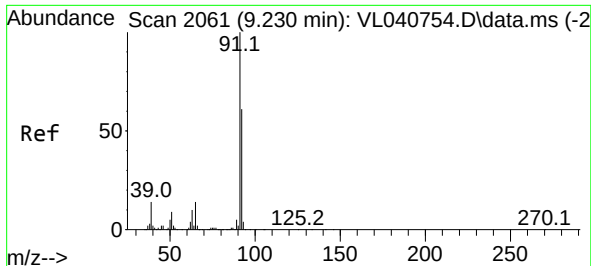
Tgt Ion: 42 Resp: 662488
Ion Ratio Lower Upper
42 100
72 0.9 31.1 46.7#
71 15.5 29.7 44.5#



#44
2,2,4-Trimethylpentane
Concen: 0.830 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 57 Resp: 272496
Ion Ratio Lower Upper
57 100
41 0.0 27.4 41.0#
56 62.3 25.0 37.6#





#53

Toluene

Concen: 2.679 ppbv

RT: 9.217 min Scan# 2061

Delta R.T. -0.003 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

Instrument :

MSVOA_1

ClientSampleId :

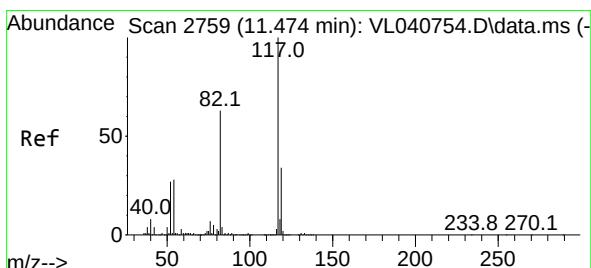
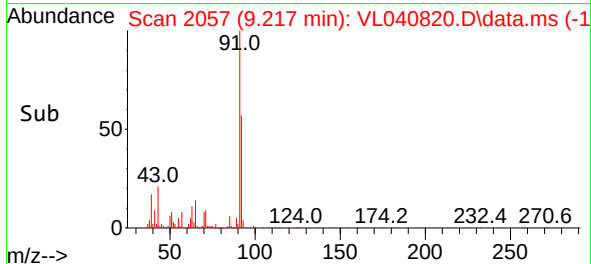
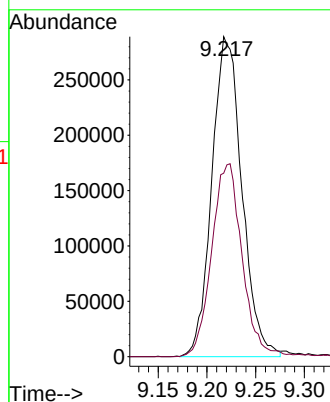
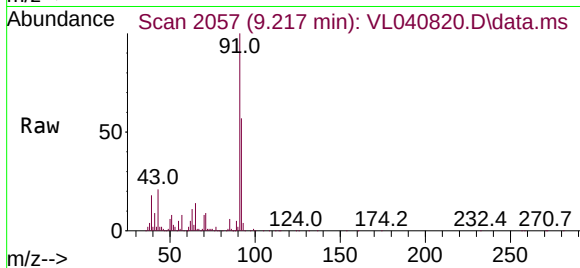
SH-IA-2

Tgt Ion: 91 Resp: 619152

Ion Ratio Lower Upper

91 100

92 61.6 50.2 75.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. -0.003 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

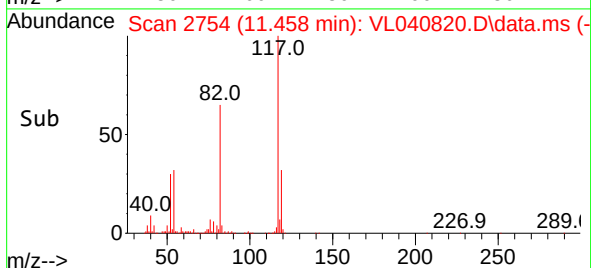
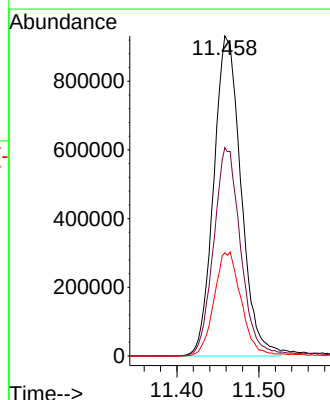
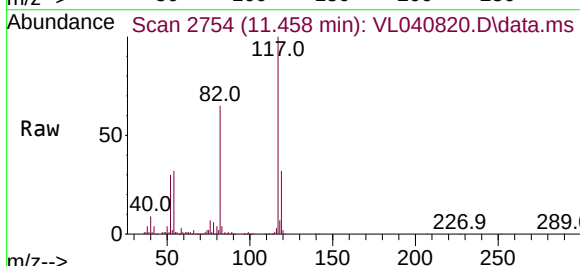
Tgt Ion: 117 Resp: 2157800

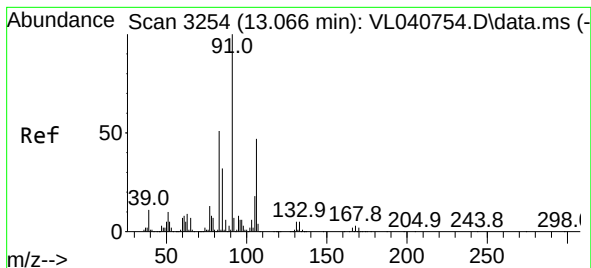
Ion Ratio Lower Upper

117 100

82 65.7 46.6 70.0

119 32.9 26.0 39.0

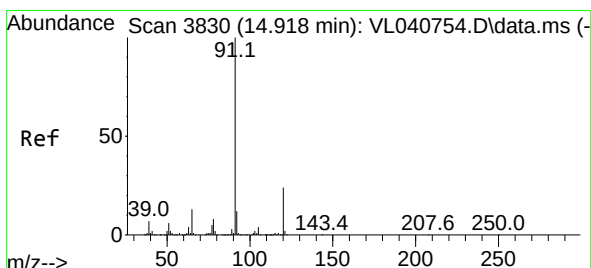
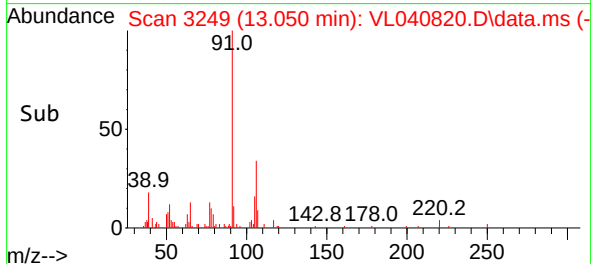
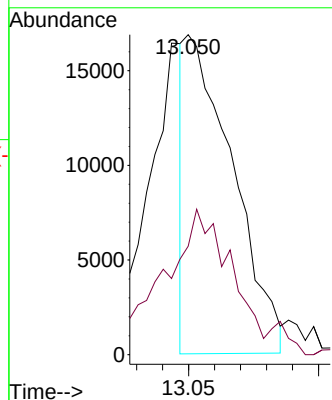
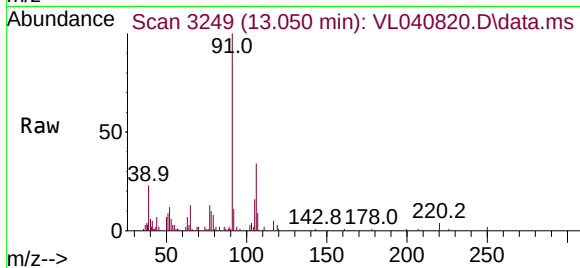




#60
o-Xylene
Concen: 0.100 ppbv
RT: 13.050 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

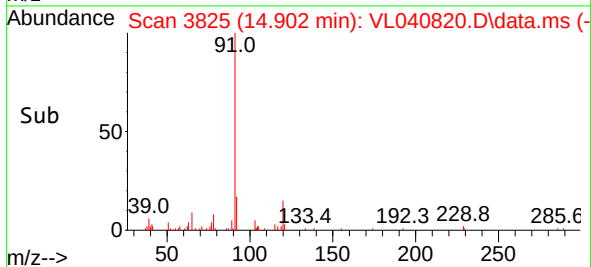
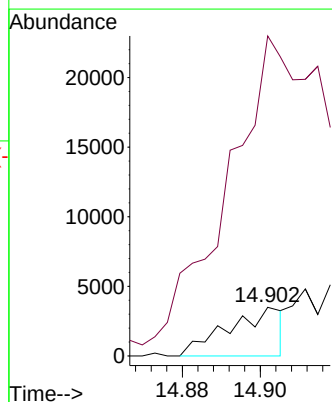
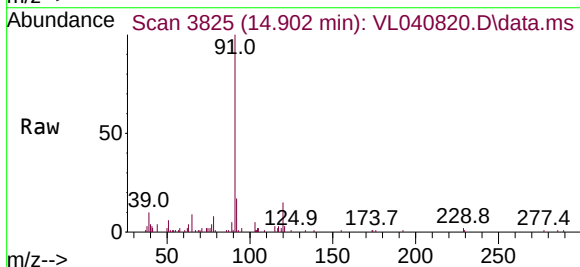
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

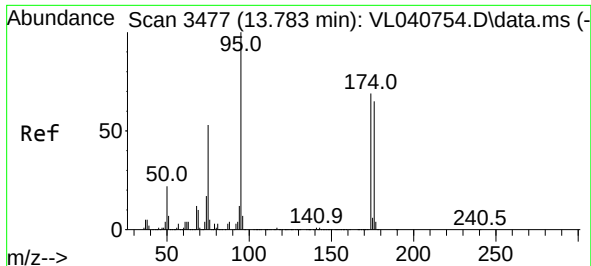
Tgt Ion: 91 Resp: 21309
Ion Ratio Lower Upper
91 100
106 73.7 23.5 70.5#



#64
n-propylbenzene
Concen: 0.038 ppbv
RT: 14.902 min Scan# 3825
Delta R.T. -0.006 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 120 Resp: 3388
Ion Ratio Lower Upper
120 100
91 1711.0 345.9 518.9#

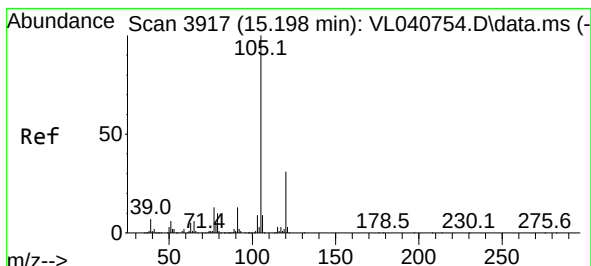
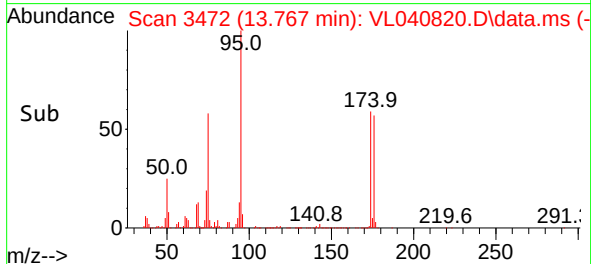
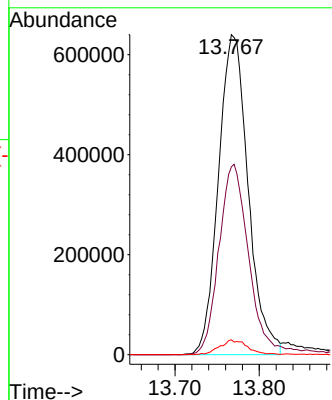
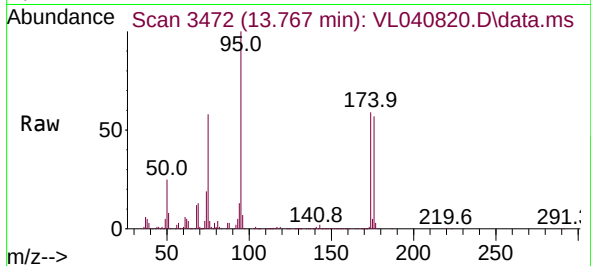




#68
1-Bromo-4-Fluorobenzene
Concen: 9.864 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

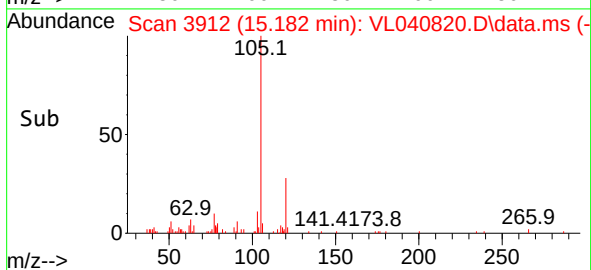
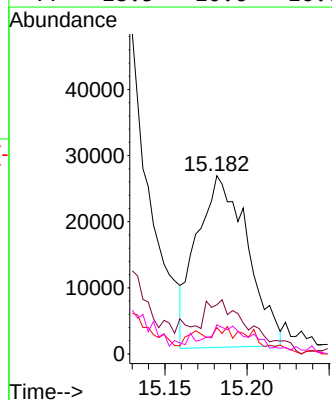
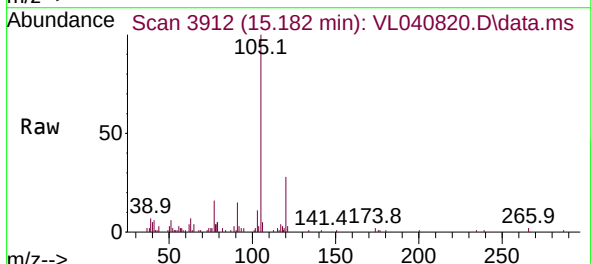
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-2

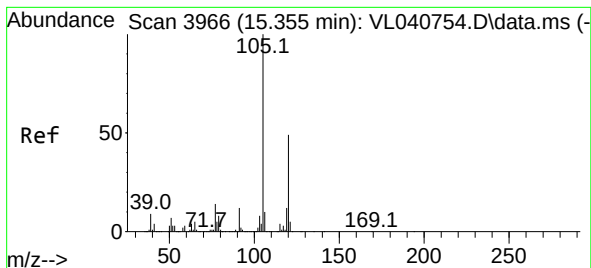
Tgt Ion: 95 Resp: 1566102
Ion Ratio Lower Upper
95 100
174 61.5 54.7 82.1
175 4.5 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.223 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.003 min
Lab File: VL040820.D
Acq: 8 Nov 2023 21:13

Tgt Ion: 105 Resp: 55579
Ion Ratio Lower Upper
105 100
120 28.5 25.0 37.4
91 19.4 9.8 14.8#
77 18.5 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.044 ppbv

RT: 15.342 min Scan# 3966

Delta R.T. 0.000 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

Instrument :

MSVOA_1

ClientSampleId :

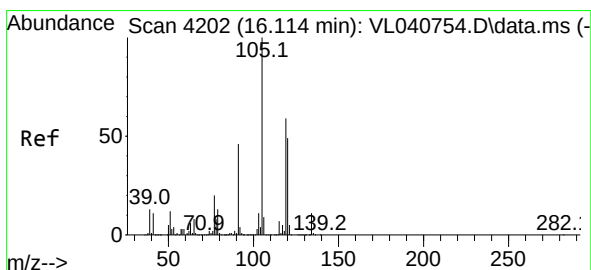
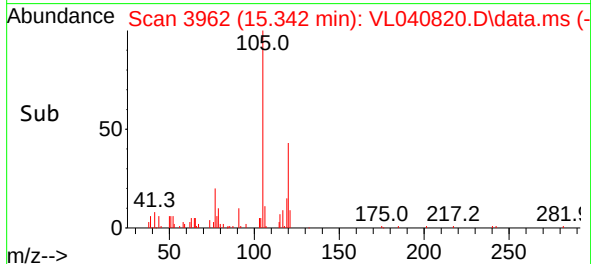
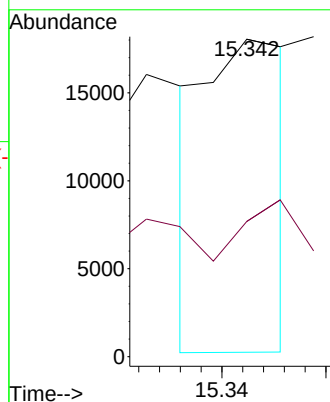
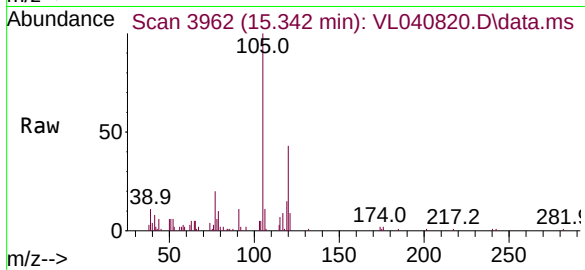
SH-IA-2

Tgt Ion:105 Resp: 9749

Ion Ratio Lower Upper

105 100

120 11.1 39.4 59.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.781 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.000 min

Lab File: VL040820.D

Acq: 8 Nov 2023 21:13

Tgt Ion:105 Resp: 187398

Ion Ratio Lower Upper

105 100

120 39.0 39.4 59.2#

91 10.0 38.6 58.0#

77 12.9 16.6 25.0#

