

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040725.D
 Acq On : 27 Sep 2023 13:28
 Operator : SY/MD
 Sample : 04616-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG2DL

Quant Time: Sep 28 01:44:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

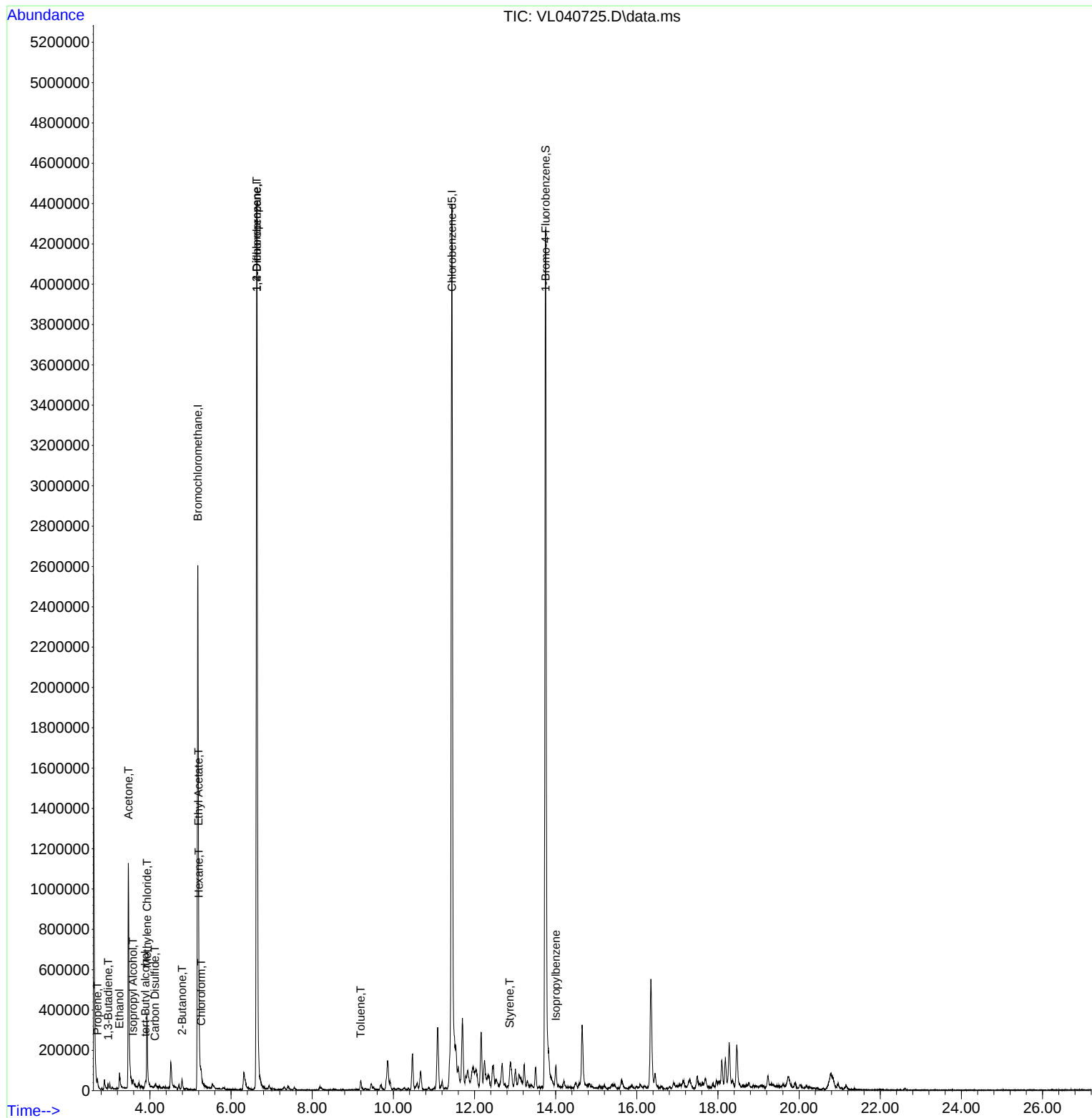
Internal Standards						
1) Bromochloromethane	5.179	49	1261068	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.636	114	3517678	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.442	117	3076036	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	2239907	9.425	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.200%
Target Compounds						
					Qvalue	
9) Propene	2.703	41	6353	0.107	ppbv #	61
13) Ethanol	3.250	45	80331	4.586	ppbv	99
15) Acetone	3.468	43	1231688	7.405	ppbv	94
16) 1,3-Butadiene	2.970	39	6102	0.084	ppbv #	9
17) tert-Butyl alcohol	3.890	59	30979	0.182	ppbv	97
19) Isopropyl Alcohol	3.584	45	26209	0.261	ppbv #	93
20) Methylene Chloride	3.928	84	132679	1.482	ppbv	95
25) Ethyl Acetate	5.198	43	56190	0.209	ppbv #	80
26) Hexane	5.205	57	79705	0.628	ppbv #	41
27) Carbon Disulfide	4.121	76	11794	0.067	ppbv #	73
29) Chloroform	5.263	83	14038	0.064	ppbv	88
34) 2-Butanone	4.793	43	55982	0.316	ppbv #	85
39) 1,2-Dichloropropane	6.632	63	837358	8.351	ppbv #	22
53) Toluene	9.192	91	16730	0.061	ppbv #	20
61) Styrene	12.864	104	7925	0.060	ppbv #	27
62) Isopropylbenzene	14.008	105	91379	0.193	ppbv	98

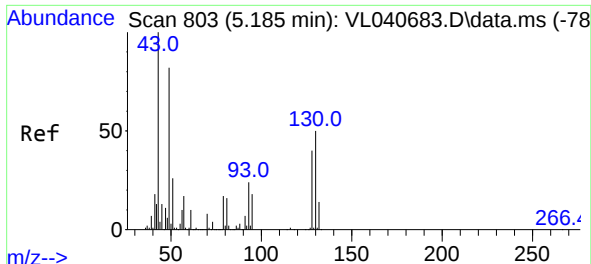
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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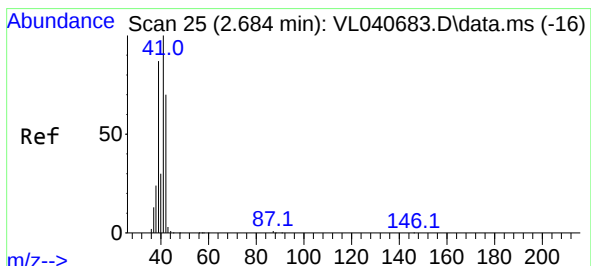
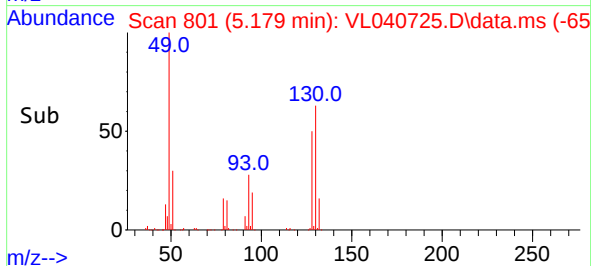
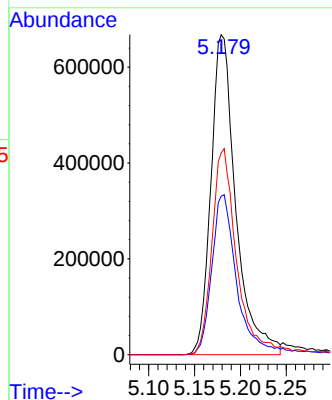
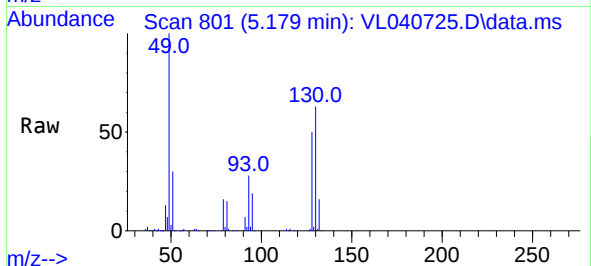




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.019 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

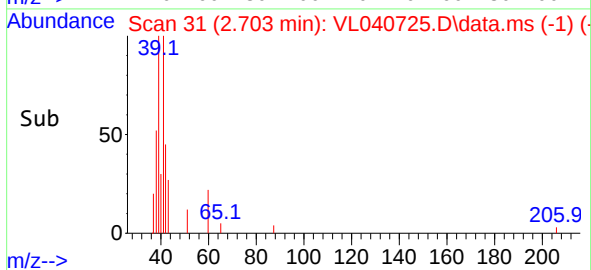
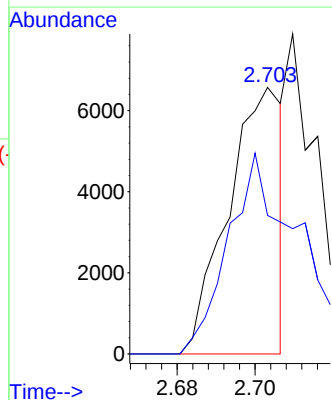
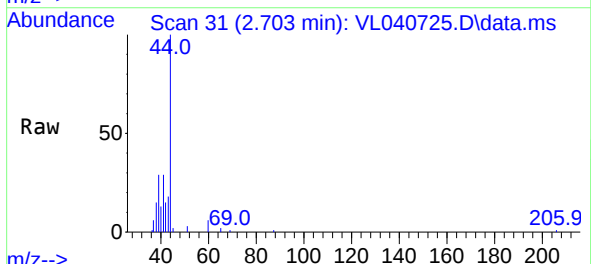
Instrument :
MSVOA_L
ClientSampleId :
SSG2DL

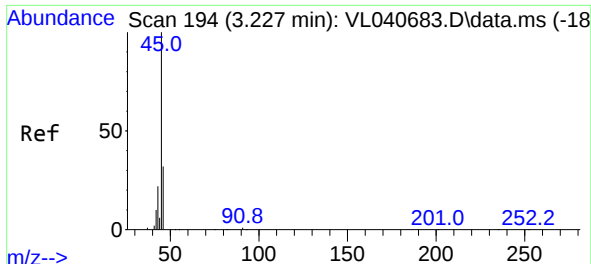
Tgt Ion: 49 Resp: 1261068
Ion Ratio Lower Upper
49 100
128 51.9 25.4 76.0
130 66.1 32.3 96.8



#9
Propene
Concen: 0.107 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion: 41 Resp: 6353
Ion Ratio Lower Upper
41 100
42 103.0 56.7 85.1#

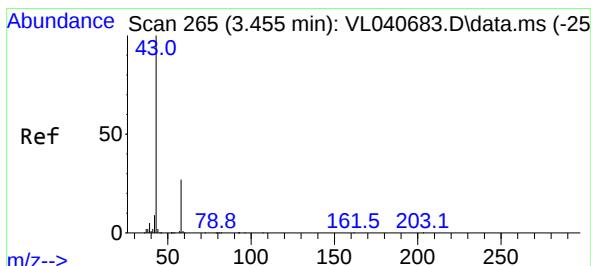
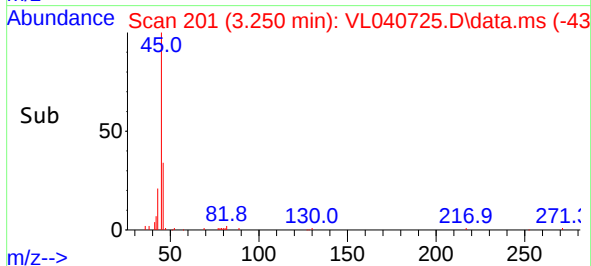
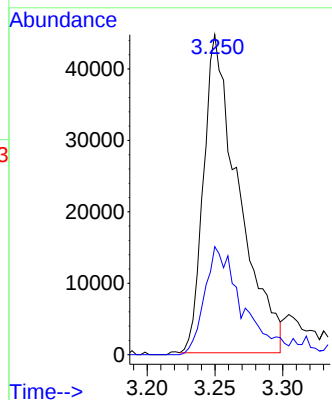
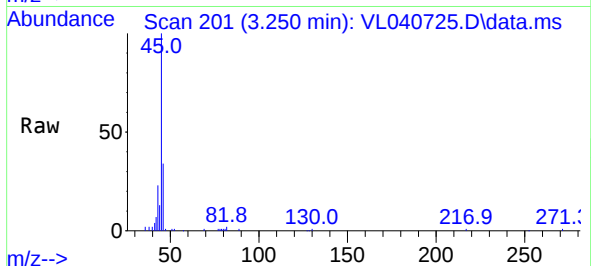




#13
Ethanol
Concen: 4.586 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.007 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

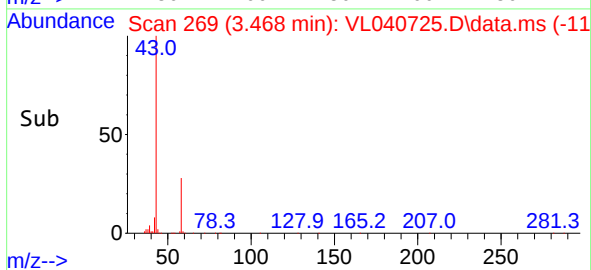
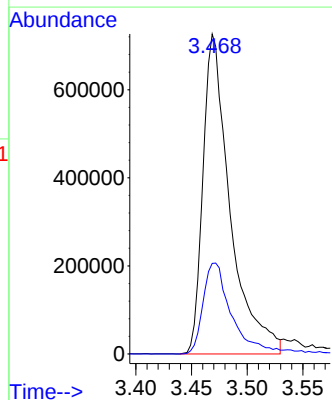
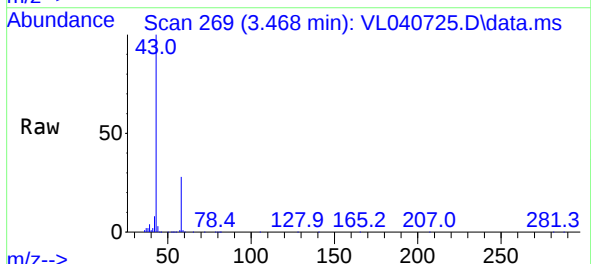
Instrument :
MSVOA_L
ClientSampleId :
SSG2DL

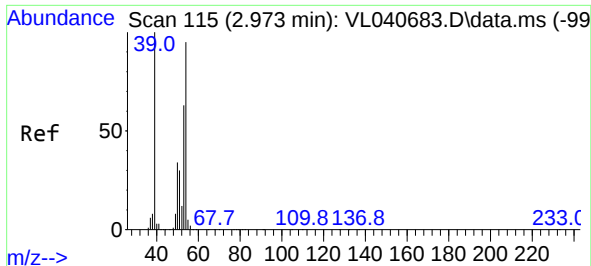
Tgt Ion: 45 Resp: 80331
Ion Ratio Lower Upper
45 100
46 38.9 15.2 61.0



#15
Acetone
Concen: 7.405 ppbv
RT: 3.468 min Scan# 269
Delta R.T. -0.003 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion: 43 Resp: 1231688
Ion Ratio Lower Upper
43 100
58 31.5 22.6 34.0

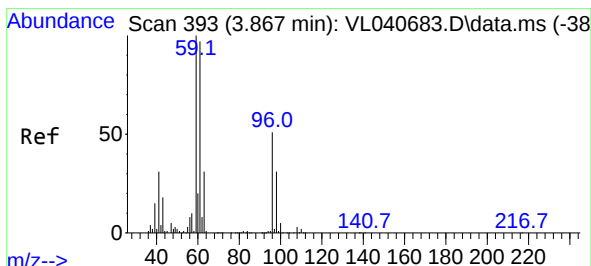
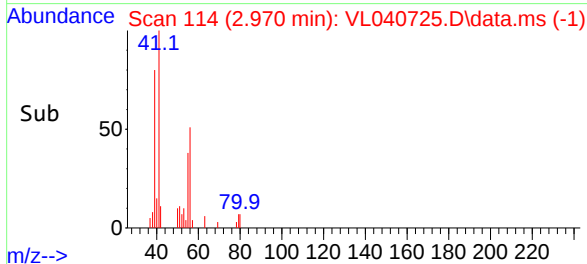
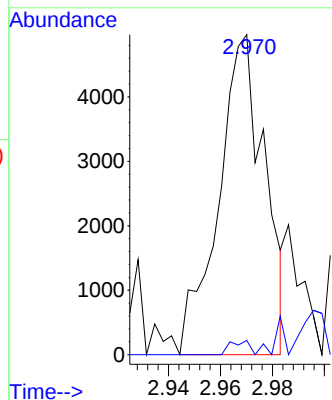
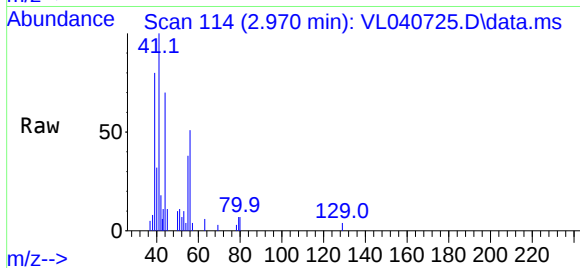




#16
1,3-Butadiene
Concen: 0.084 ppbv
RT: 2.970 min Scan# 115
Delta R.T. -0.019 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

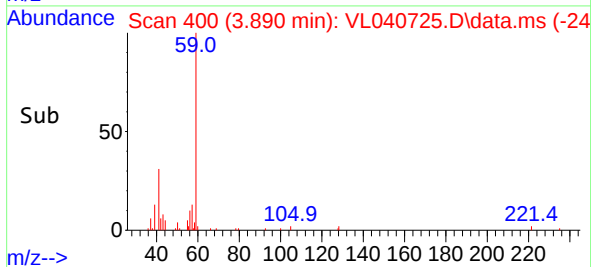
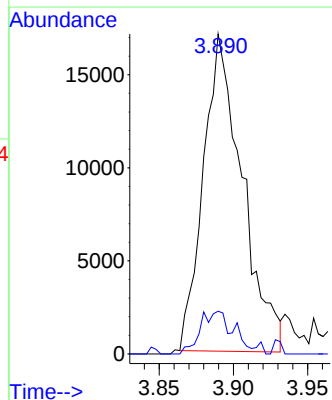
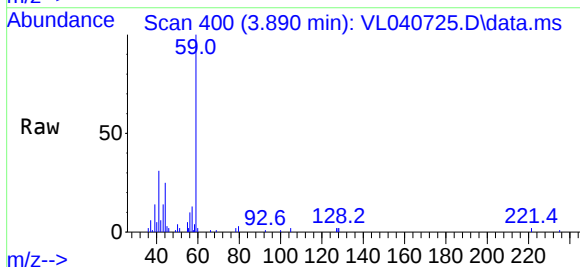
Instrument :
MSVOA_L
ClientSampleId :
SSG2DL

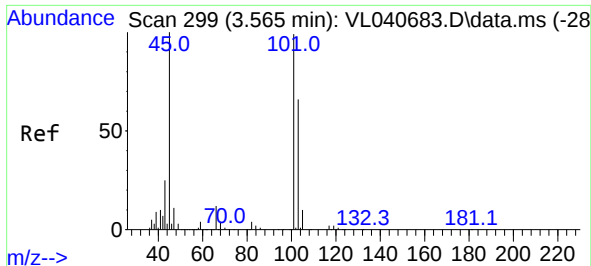
Tgt Ion: 39 Resp: 6102
Ion Ratio Lower Upper
39 100
54 0.0 64.8 97.2#



#17
tert-Butyl alcohol
Concen: 0.182 ppbv
RT: 3.890 min Scan# 400
Delta R.T. 0.007 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion: 59 Resp: 30979
Ion Ratio Lower Upper
59 100
57 12.1 8.7 13.1





#19

Isopropyl Alcohol

Concen: 0.261 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.007 min

Lab File: VL040725.D

Acq: 27 Sep 2023 13:28

Instrument :

MSVOA_L

ClientSampleId :

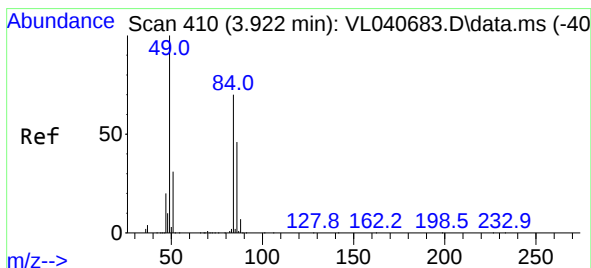
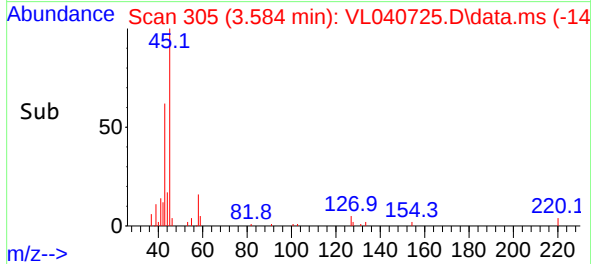
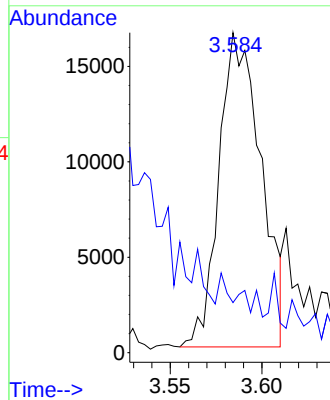
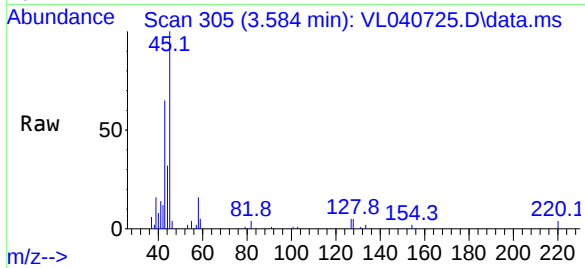
SSG2DL

Tgt Ion: 45 Resp: 26209

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 1.482 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.009 min

Lab File: VL040725.D

Acq: 27 Sep 2023 13:28

Tgt Ion: 84 Resp: 132679

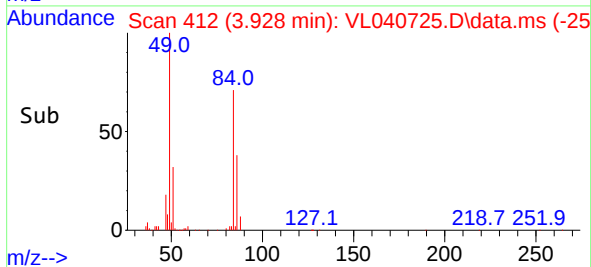
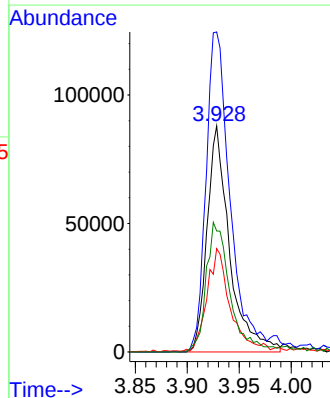
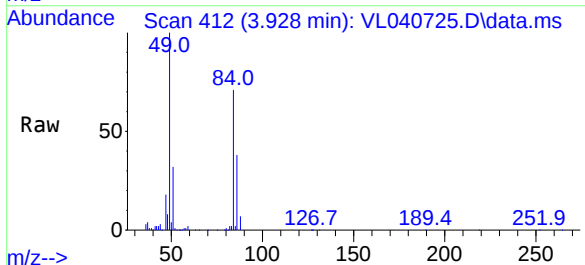
Ion Ratio Lower Upper

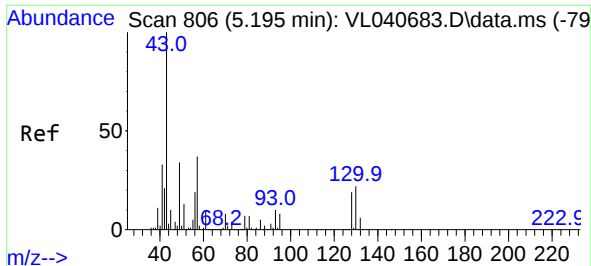
84 100

49 141.6 114.4 171.6

51 45.4 35.5 53.3

86 53.5 53.2 79.8

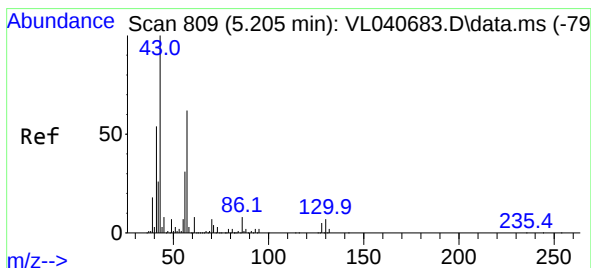
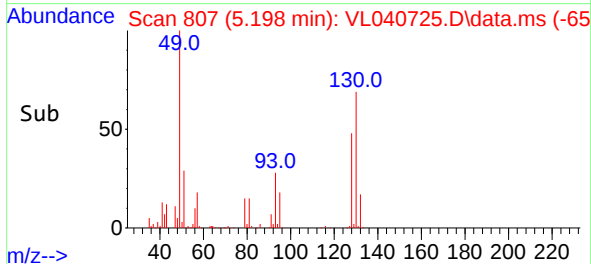
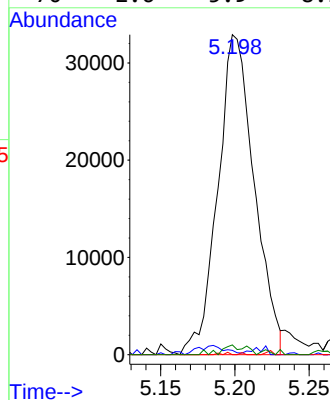
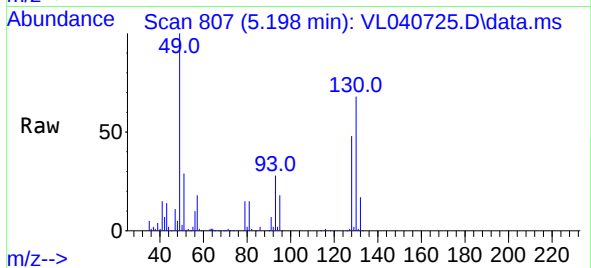




#25
Ethyl Acetate
Concen: 0.209 ppbv
RT: 5.198 min Scan# 806
Delta R.T. -0.013 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

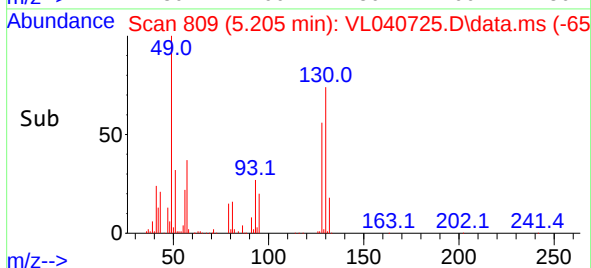
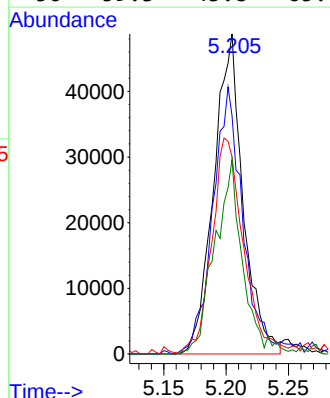
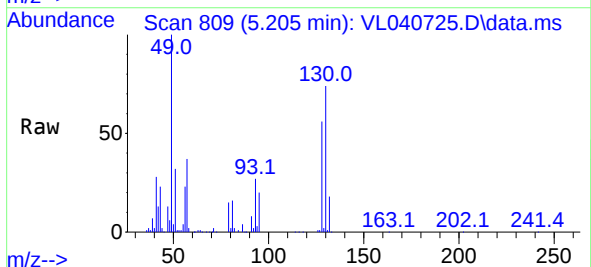
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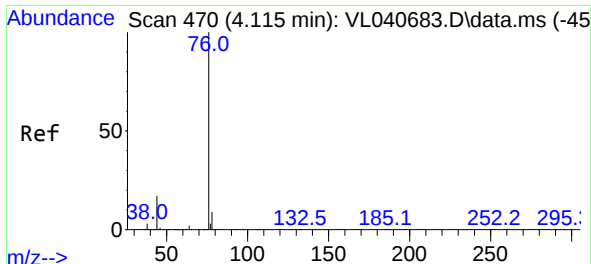
Tgt Ion:	43	Resp:	56190
Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.2	12.4#
61	0.2	8.2	12.4#
70	2.6	5.9	8.9#



#26
Hexane
Concen: 0.628 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.016 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion:	57	Resp:	79705
Ion	Ratio	Lower	Upper
57	100		
41	88.7	75.2	112.8
43	76.0	185.6	278.4#
56	59.3	43.8	65.8

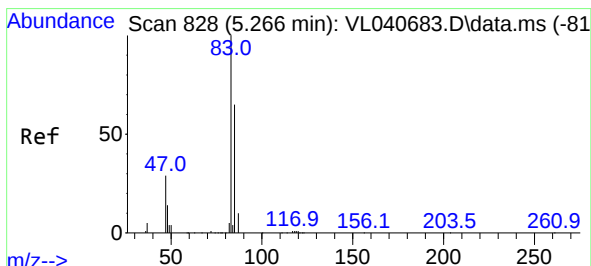
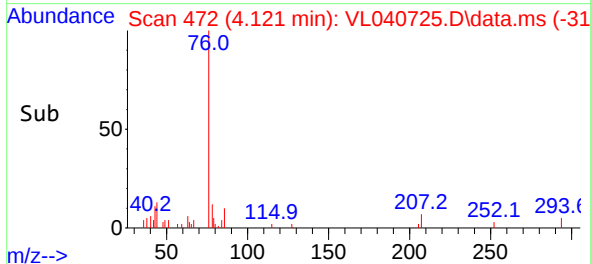
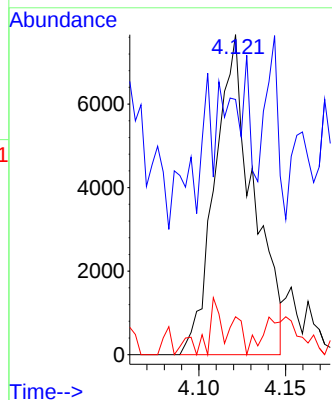
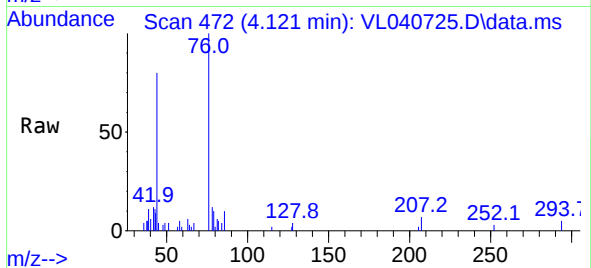




#27
Carbon Disulfide
Concen: 0.067 ppbv
RT: 4.121 min Scan# 41
Delta R.T. -0.009 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

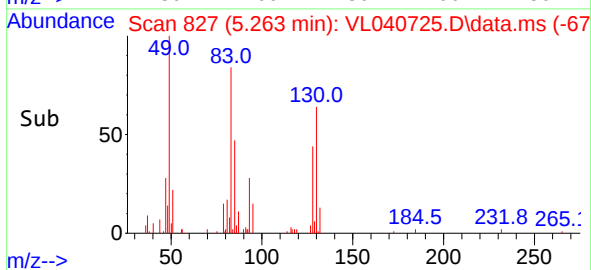
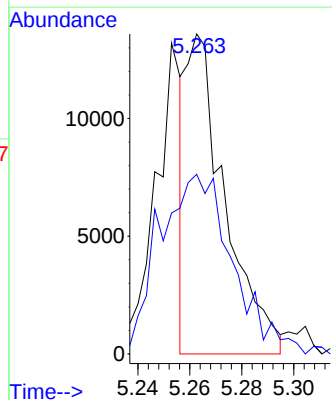
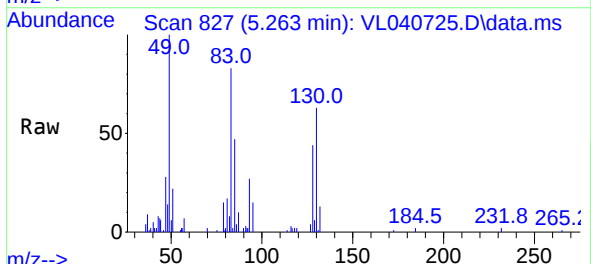
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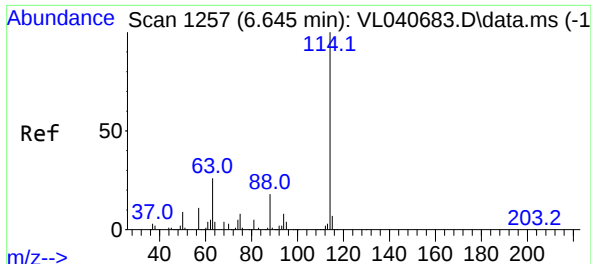
Tgt Ion: 76 Resp: 11794
Ion Ratio Lower Upper
76 100
44 0.0 14.5 21.7#
78 10.3 7.7 11.5



#29
Chloroform
Concen: 0.064 ppbv
RT: 5.263 min Scan# 827
Delta R.T. -0.019 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion: 83 Resp: 14038
Ion Ratio Lower Upper
83 100
85 55.0 51.8 77.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.636 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040725.D

Acq: 27 Sep 2023 13:28

Instrument :

MSVOA_L

ClientSampleId :

SSG2DL

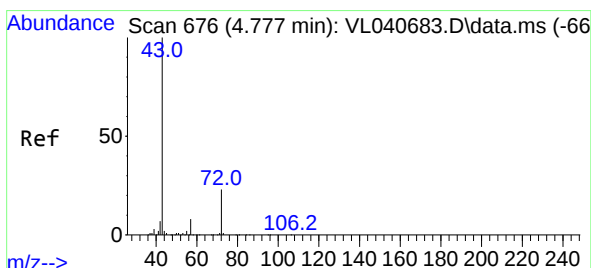
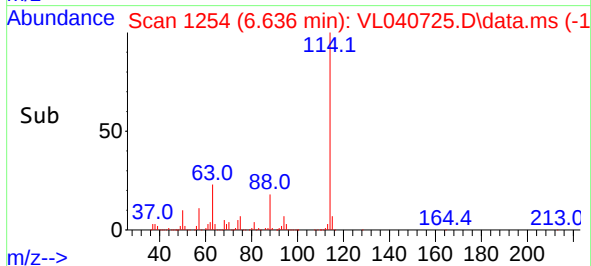
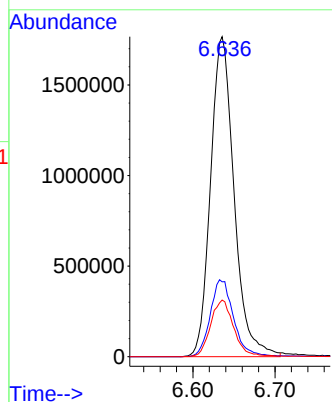
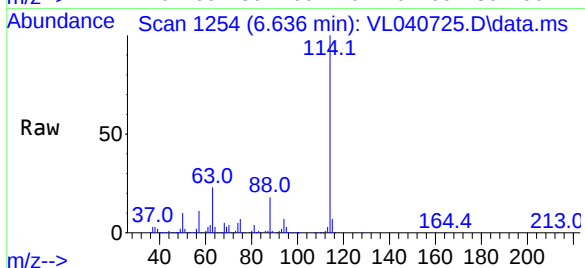
Tgt Ion:114 Resp: 3517678

Ion Ratio Lower Upper

114 100

63 24.2 21.1 31.7

88 17.6 14.5 21.7



#34

2-Butanone

Concen: 0.316 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.003 min

Lab File: VL040725.D

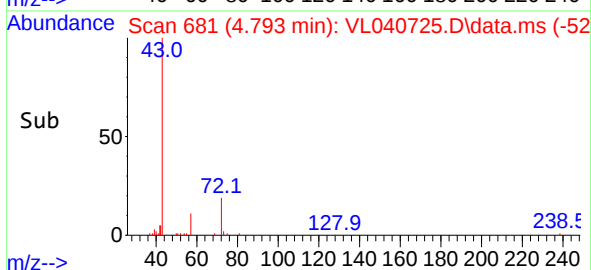
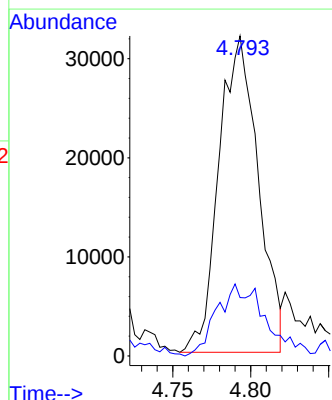
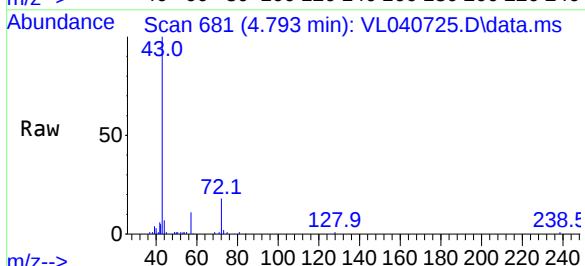
Acq: 27 Sep 2023 13:28

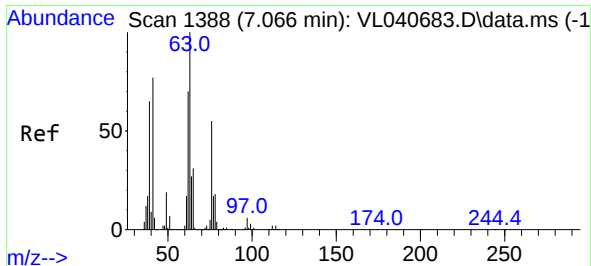
Tgt Ion: 43 Resp: 55982

Ion Ratio Lower Upper

43 100

72 30.4 18.6 27.8#





#39

1,2-Dichloropropane

Concen: 8.351 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.450 min

Lab File: VL040725.D

Acq: 27 Sep 2023 13:28

Instrument :

MSVOA_L

ClientSampleId :

SSG2DL

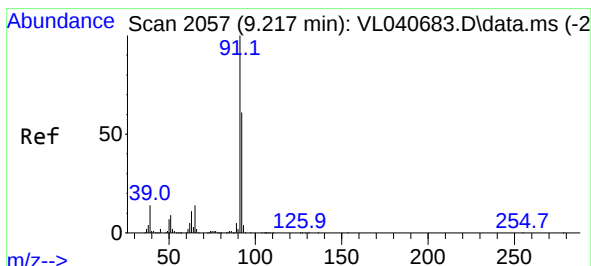
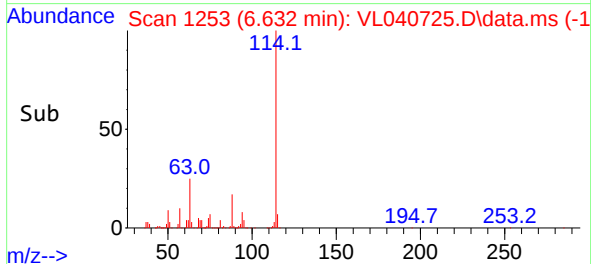
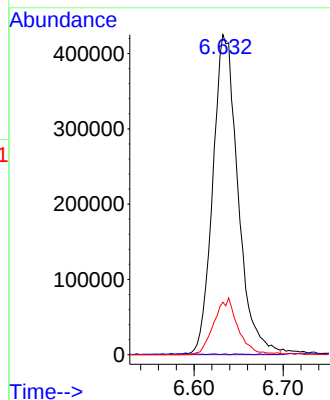
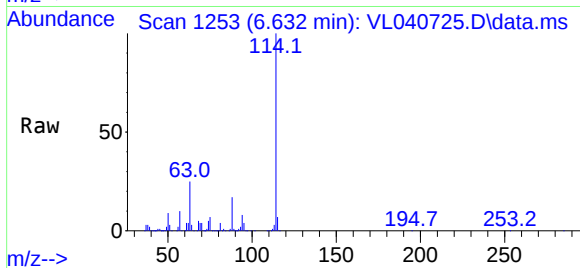
Tgt Ion: 63 Resp: 837358

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 16.4 55.8 83.8#



#53

Toluene

Concen: 0.061 ppbv

RT: 9.192 min Scan# 2049

Delta R.T. -0.038 min

Lab File: VL040725.D

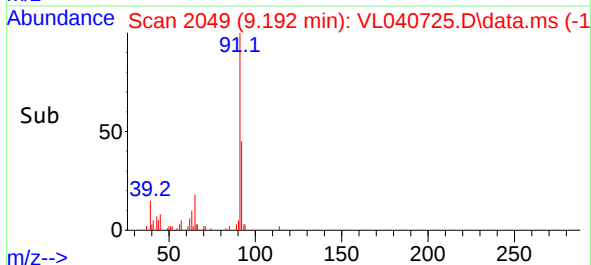
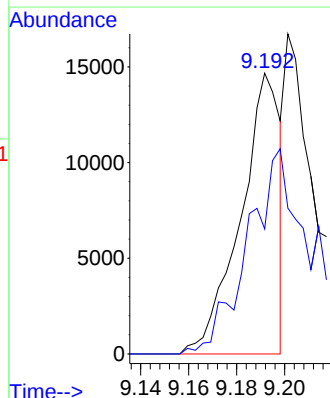
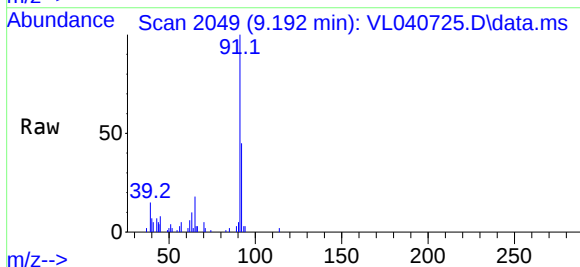
Acq: 27 Sep 2023 13:28

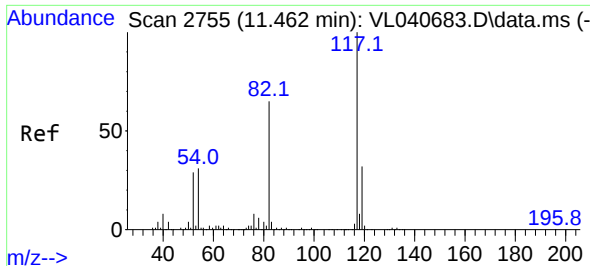
Tgt Ion: 91 Resp: 16730

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#

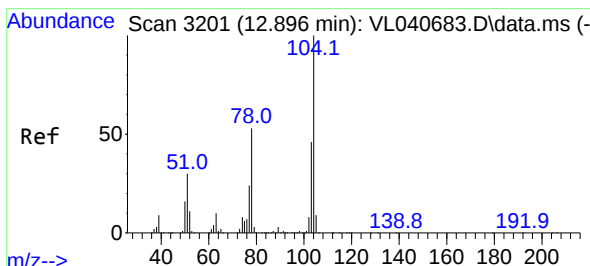
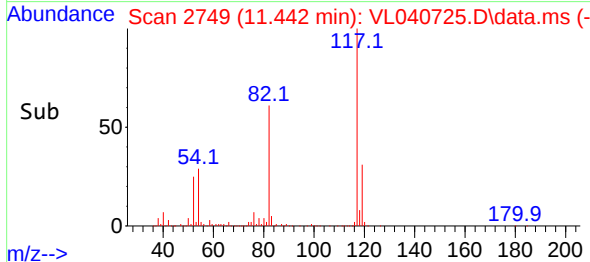
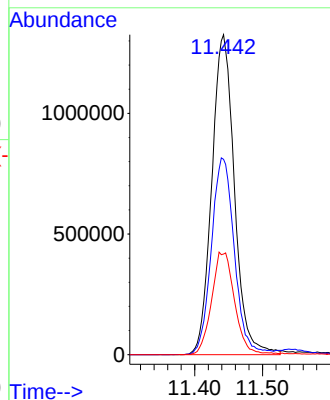
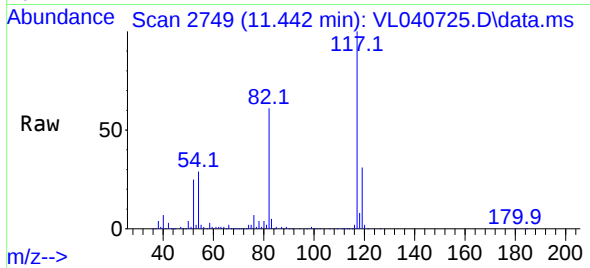




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. -0.035 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

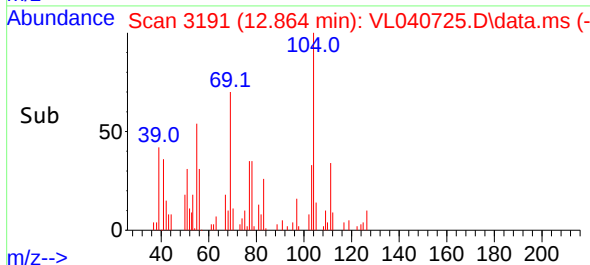
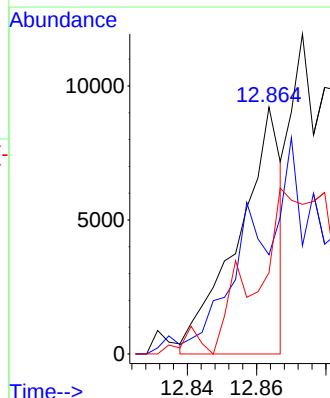
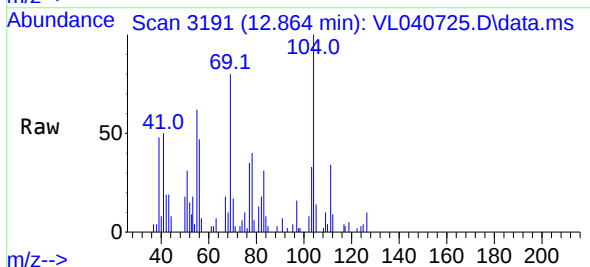
Instrument :
MSVOA_L
ClientSampleId :
SSG2DL

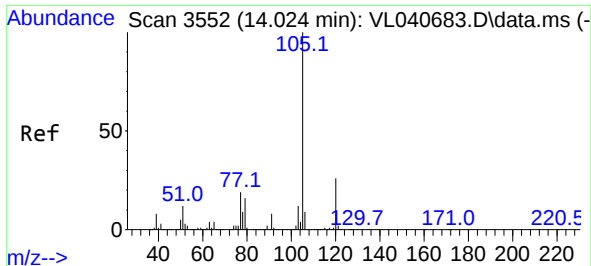
Tgt Ion:117 Resp: 3076036
Ion Ratio Lower Upper
117 100
82 62.6 51.4 77.0
119 33.1 24.7 37.1



#61
Styrene
Concen: 0.060 ppbv
RT: 12.864 min Scan# 3191
Delta R.T. -0.042 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion:104 Resp: 7925
Ion Ratio Lower Upper
104 100
78 0.0 43.4 65.0#
103 0.0 37.2 55.8#

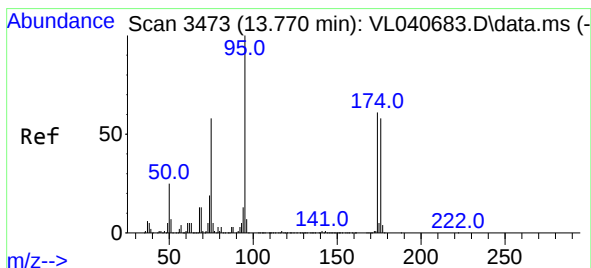
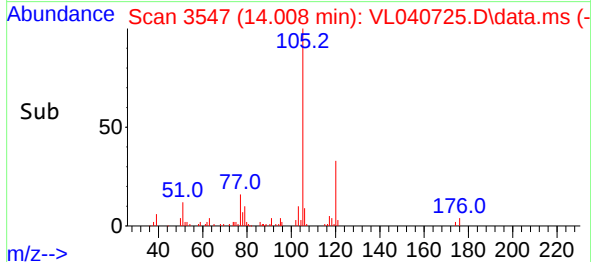
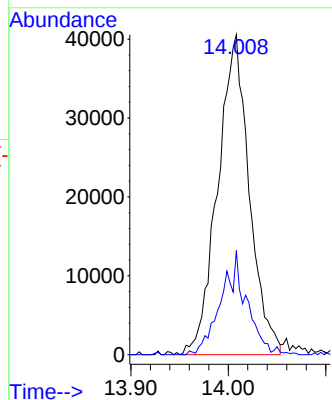
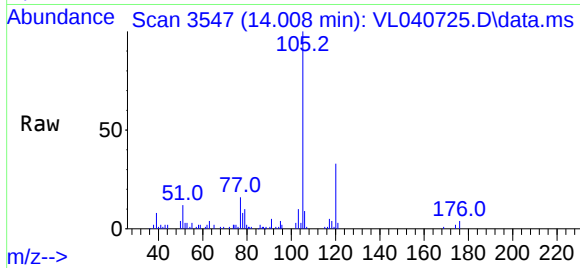




#62
Isopropylbenzene
Concen: 0.193 ppbv
RT: 14.008 min Scan# 31
Delta R.T. -0.029 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Instrument :
MSVOA_L
ClientSampleId :
SSG2DL

Tgt Ion:105 Resp: 91379
Ion Ratio Lower Upper
105 100
120 26.5 20.2 30.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.425 ppbv
RT: 13.751 min Scan# 3467
Delta R.T. -0.035 min
Lab File: VL040725.D
Acq: 27 Sep 2023 13:28

Tgt Ion: 95 Resp: 2239907
Ion Ratio Lower Upper
95 100
174 66.8 48.9 73.3
175 4.7 3.5 5.3

