

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041557.D
 Acq On : 19 Aug 2024 21:36
 Operator : SY/MD
 Sample : P3659-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVIDL

Quant Time: Aug 20 02:24:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

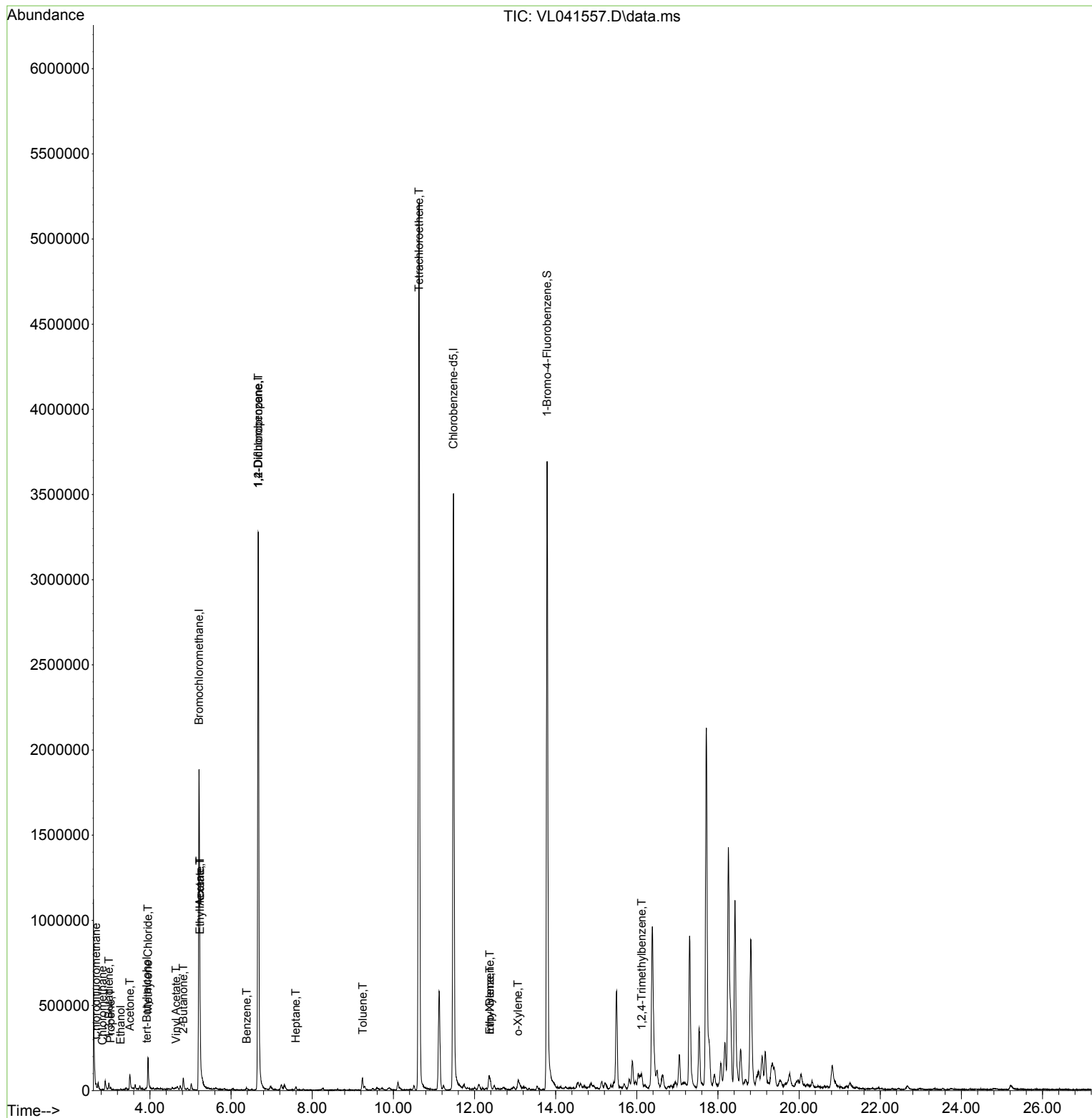
Internal Standards						
1) Bromochloromethane	5.211	49	949196	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2582196	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2367962	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1804911	9.905	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.674	51	12824	0.113	ppbv #	81
4) Chloromethane	2.832	50	2651	0.044	ppbv #	65
9) Propene	3.031	41	3320	0.064	ppbv	93
10) Heptane	7.594	43	4676	0.040	ppbv #	48
13) Ethanol	3.275	45	1150	0.248	ppbv #	1
15) Acetone	3.504	43	95056	0.881	ppbv #	78
16) 1,3-Butadiene	2.989	39	10853	0.188	ppbv #	28
17) tert-Butyl alcohol	3.925	59	5776	0.059	ppbv #	75
20) Methylene Chloride	3.954	84	61541	1.530	ppbv	96
23) Vinyl Acetate	4.645	43	3000	0.036	ppbv #	83
25) Ethyl Acetate	5.234	43	64709	0.302	ppbv #	80
26) Hexane	5.230	57	87319	0.982	ppbv #	34
34) 2-Butanone	4.822	43	80828	0.647	ppbv	94
36) Benzene	6.385	78	6269	0.033	ppbv	97
39) 1,2-Dichloropropane	6.671	63	637819	8.830	ppbv #	25
52) Tetrachloroethene	10.632	164	1402100	19.232	ppbv	97
53) Toluene	9.243	91	53150	0.253	ppbv	98
58) Ethyl Benzene	12.378	91	35114	0.129	ppbv	93
59) m/p-Xylene	12.378	91	35114	0.149	ppbv #	31
60) o-Xylene	13.073	91	21557	0.097	ppbv #	57
74) 1,2,4-Trimethylbenzene	16.121	105	53062	0.202	ppbv #	72

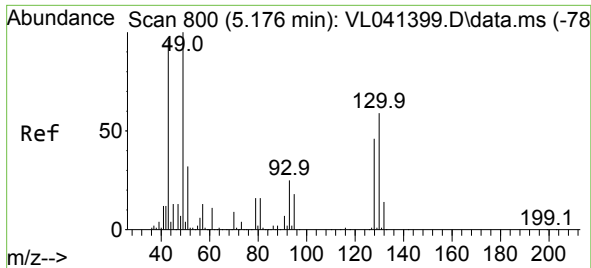
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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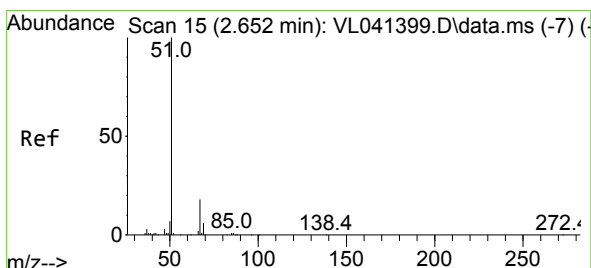
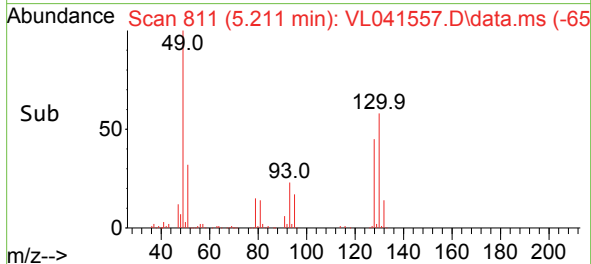
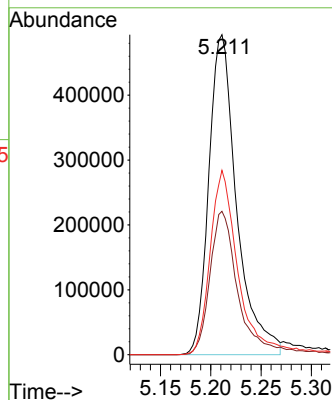
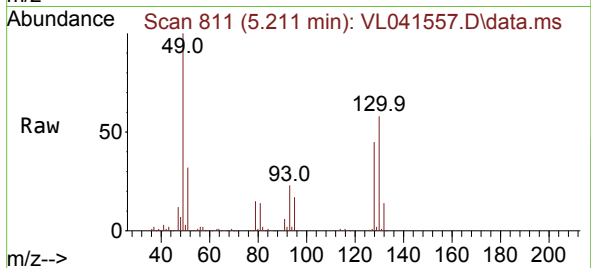




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

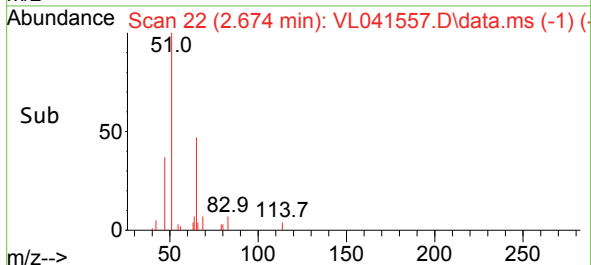
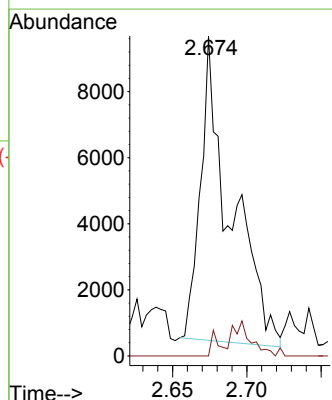
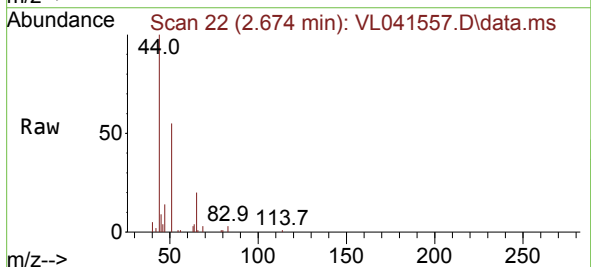
Instrument :
MSVOA_L
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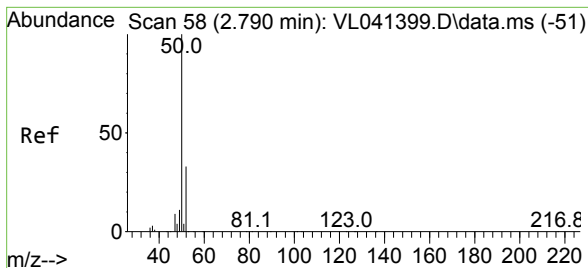
Tgt Ion: 49 Resp: 949196
Ion Ratio Lower Upper
49 100
128 47.2 23.8 71.4
130 60.2 30.8 92.4



#3
Chlorodifluoromethane
Concen: 0.113 ppbv
RT: 2.674 min Scan# 22
Delta R.T. -0.019 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 51 Resp: 12824
Ion Ratio Lower Upper
51 100
67 9.6 14.5 21.7

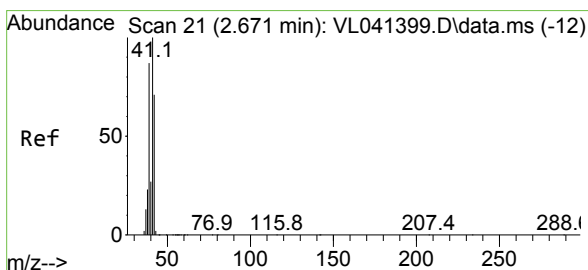
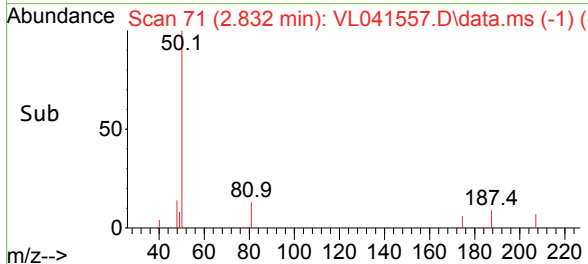
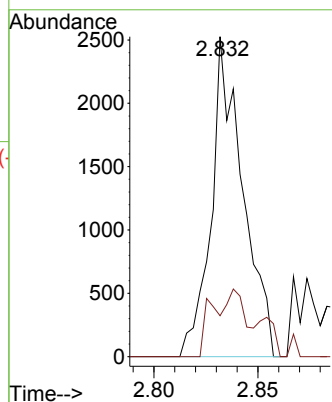
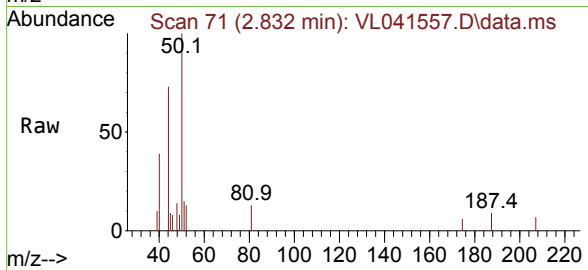




#4
Chloromethane
Concen: 0.044 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

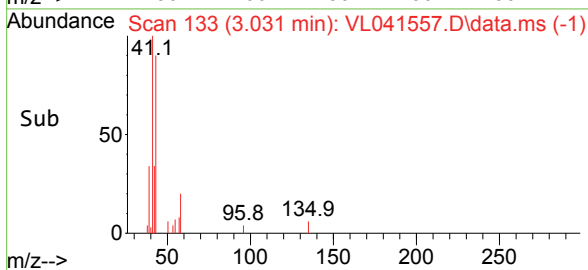
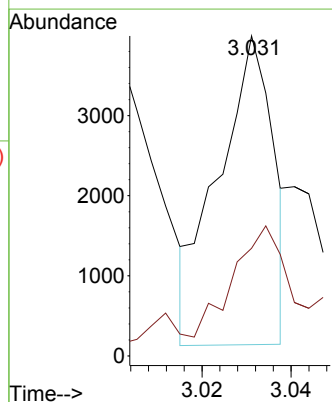
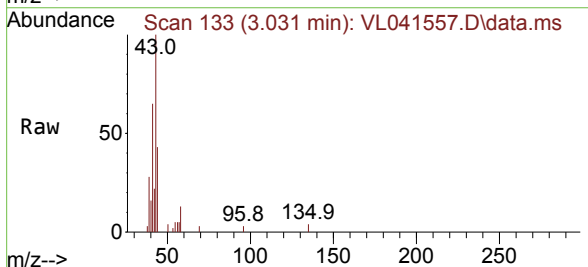
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

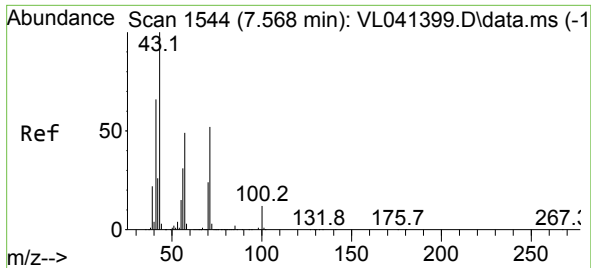
Tgt Ion: 50 Resp: 2651
Ion Ratio Lower Upper
50 100
52 12.8 26.1 39.1#



#9
Propene
Concen: 0.064 ppbv
RT: 3.031 min Scan# 133
Delta R.T. 0.318 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 41 Resp: 3320
Ion Ratio Lower Upper
41 100
42 64.5 55.9 83.9

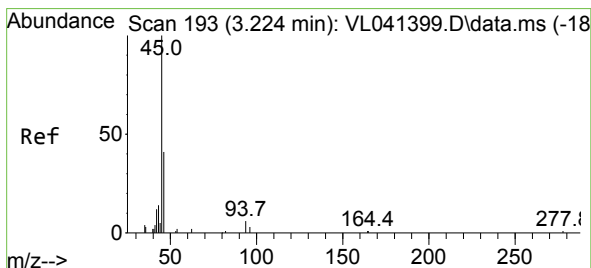
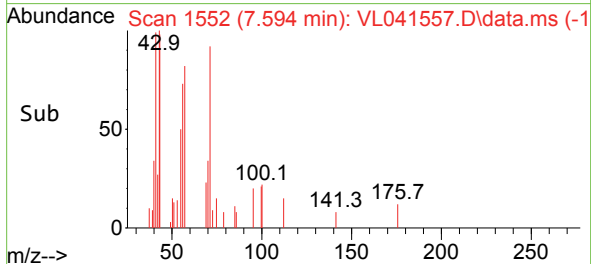
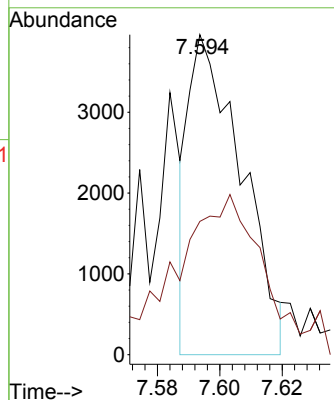
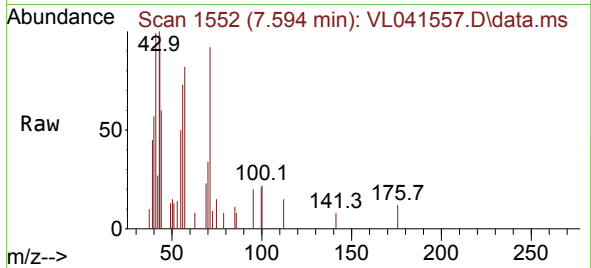




#10
 Heptane
 Concen: 0.040 ppbv
 RT: 7.594 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL041557.D
 Acq: 19 Aug 2024 21:36

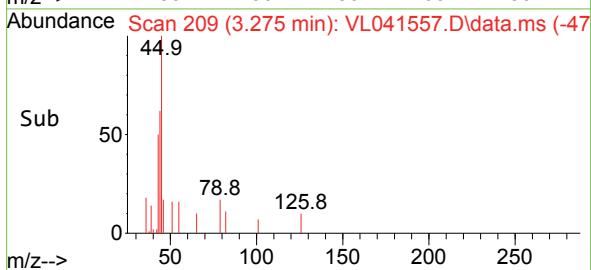
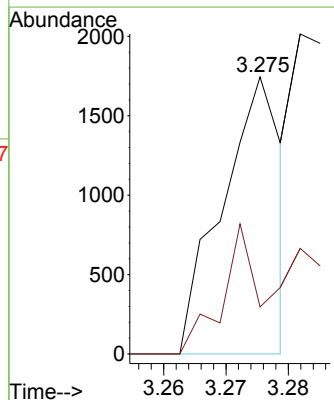
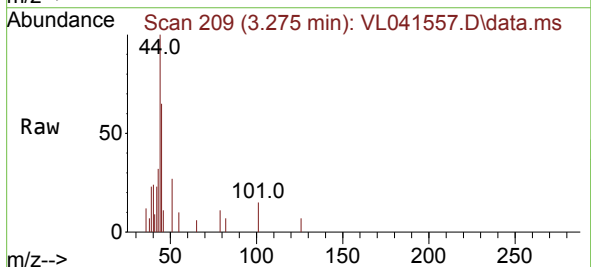
Instrument :
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 ClientSampleId :
 SVIDL

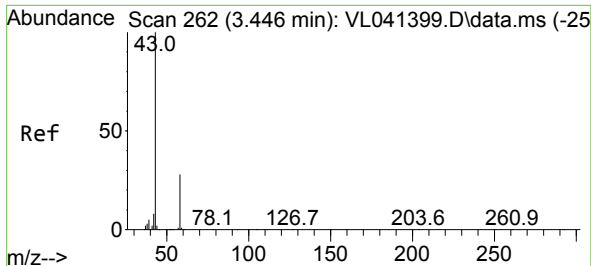
Tgt Ion: 43 Resp: 4676
 Ion Ratio Lower Upper
 43 100
 57 87.0 40.5 60.7#



#13
 Ethanol
 Concen: 0.248 ppbv
 RT: 3.275 min Scan# 209
 Delta R.T. 0.019 min
 Lab File: VL041557.D
 Acq: 19 Aug 2024 21:36

Tgt Ion: 45 Resp: 1150
 Ion Ratio Lower Upper
 45 100
 46 98.9 13.4 53.4#

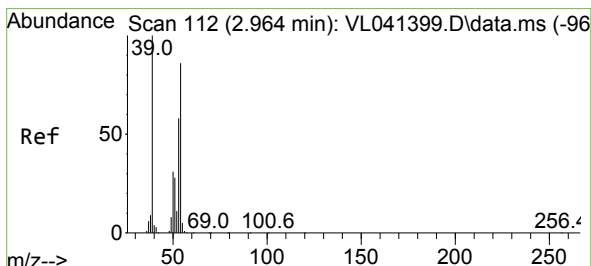
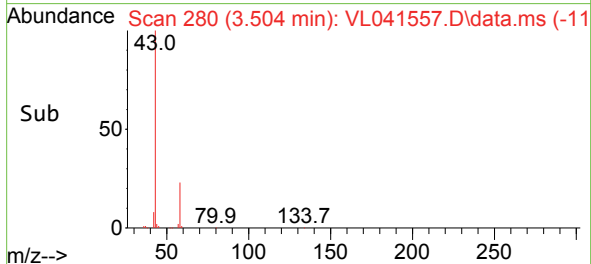
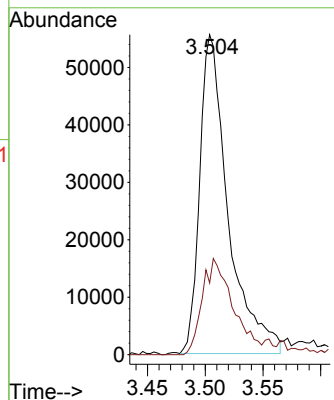
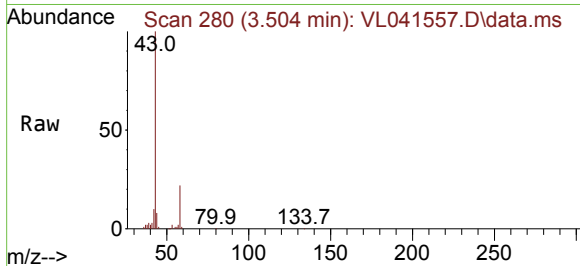




#15
Acetone
Concen: 0.881 ppbv
RT: 3.504 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

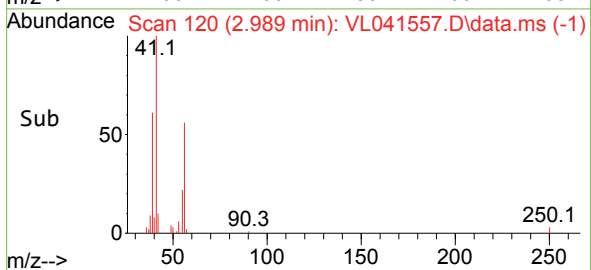
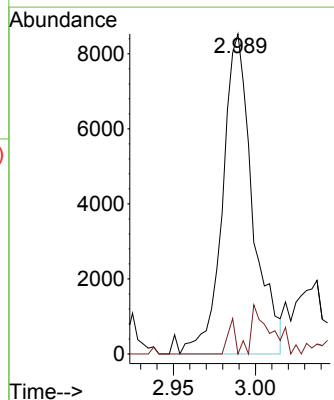
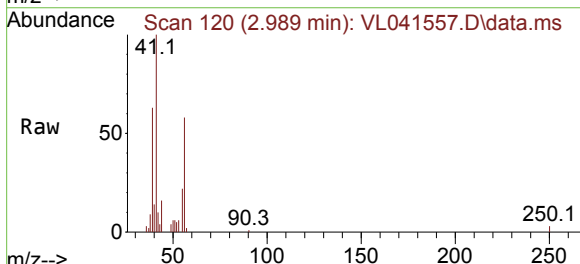
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

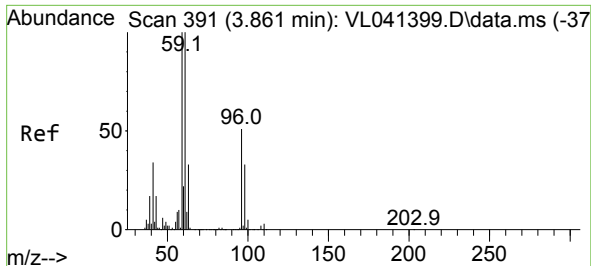
Tgt Ion: 43 Resp: 95056
Ion Ratio Lower Upper
43 100
58 38.3 21.4 32.2#



#16
1,3-Butadiene
Concen: 0.188 ppbv
RT: 2.989 min Scan# 120
Delta R.T. -0.013 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 39 Resp: 10853
Ion Ratio Lower Upper
39 100
54 15.2 62.5 93.7#

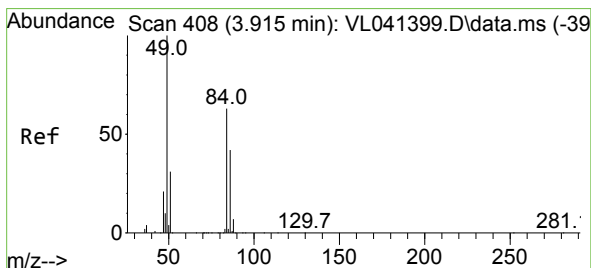
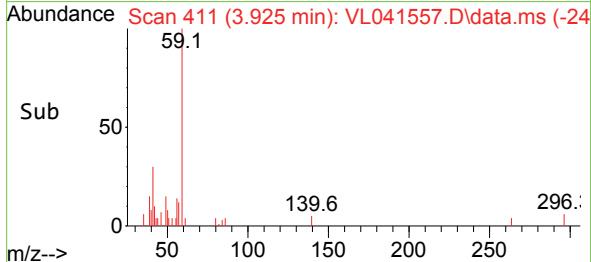
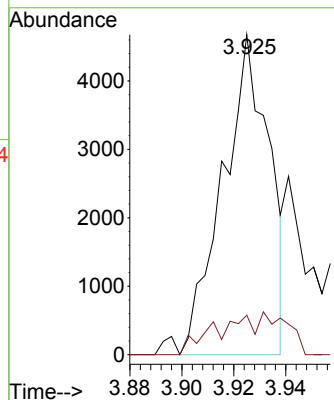
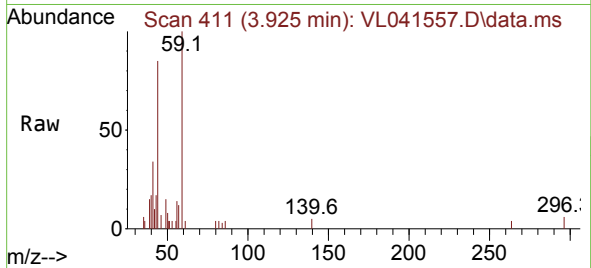




#17
tert-Butyl alcohol
Concen: 0.059 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.032 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

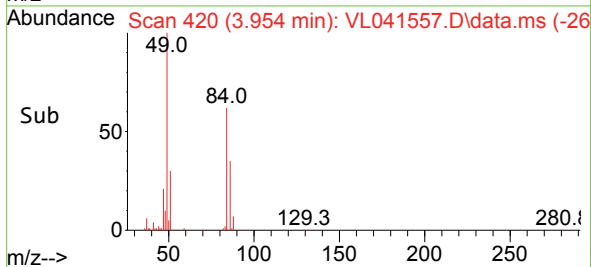
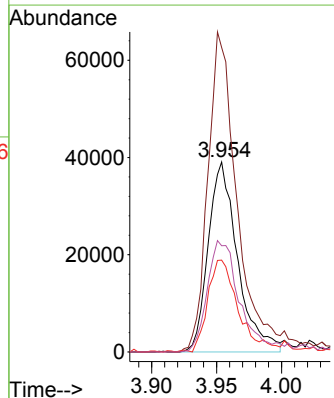
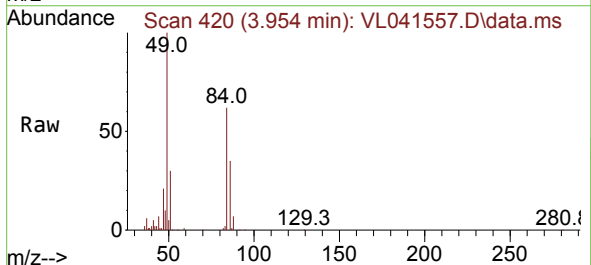
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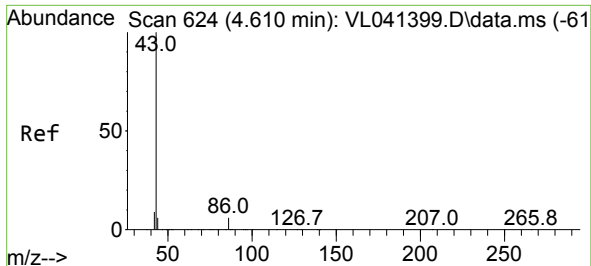
Tgt Ion: 59 Resp: 5776
Ion Ratio Lower Upper
59 100
57 20.1 8.6 12.8#



#20
Methylene Chloride
Concen: 1.530 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.003 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 84 Resp: 61541
Ion Ratio Lower Upper
84 100
49 160.4 126.6 190.0
51 47.8 38.6 58.0
86 56.0 53.0 79.4

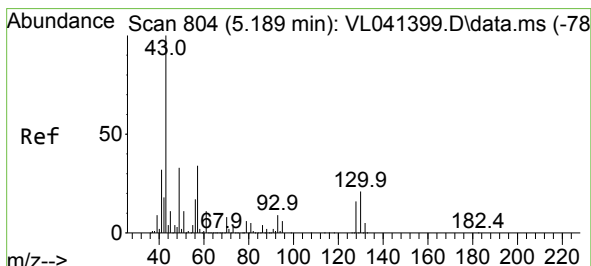
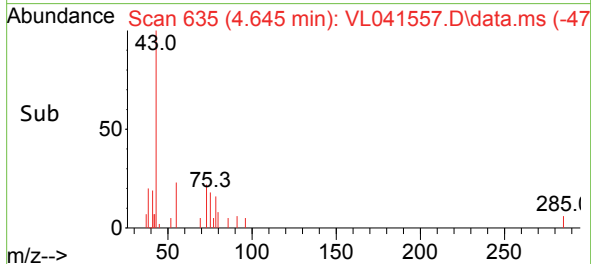
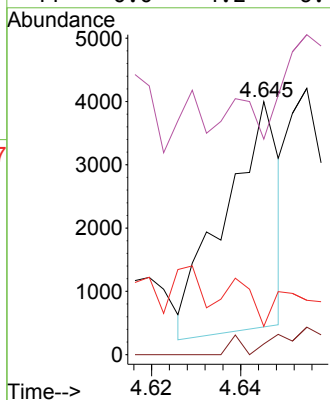
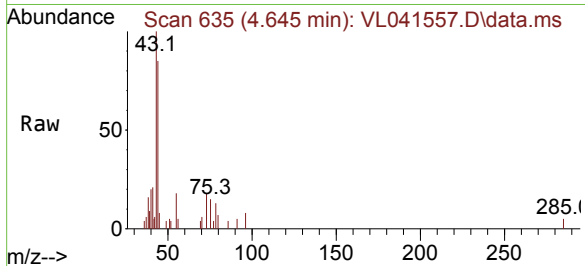




#23
 Vinyl Acetate
 Concen: 0.036 ppbv
 RT: 4.645 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041557.D
 Acq: 19 Aug 2024 21:36

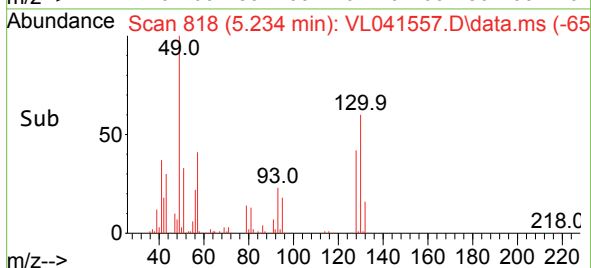
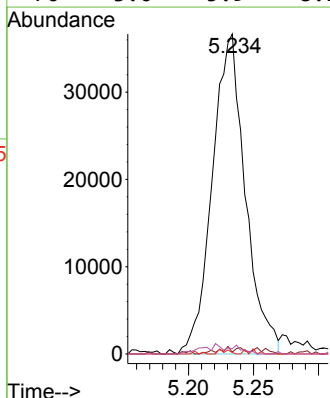
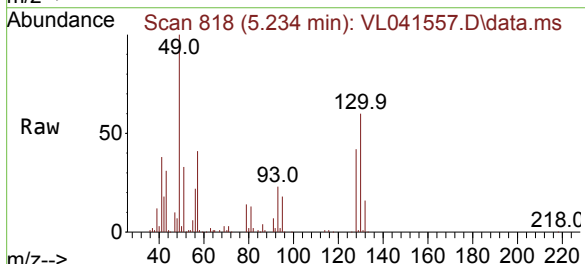
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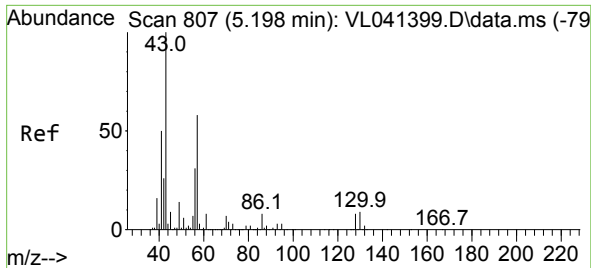
Tgt Ion: 43	Resp: 3000
Ion Ratio	Lower Upper
43 100	
86 5.0	4.6 6.8
42 0.0	7.9 11.9#
44 0.0	4.2 6.4#



#25
 Ethyl Acetate
 Concen: 0.302 ppbv
 RT: 5.234 min Scan# 818
 Delta R.T. 0.013 min
 Lab File: VL041557.D
 Acq: 19 Aug 2024 21:36

Tgt	Ion: 43	Resp:	64709
Ion	Ratio	Lower	Upper
43	100		
45	2.4	8.5	12.7#
61	1.0	8.0	12.0#
70	3.0	5.9	8.9#

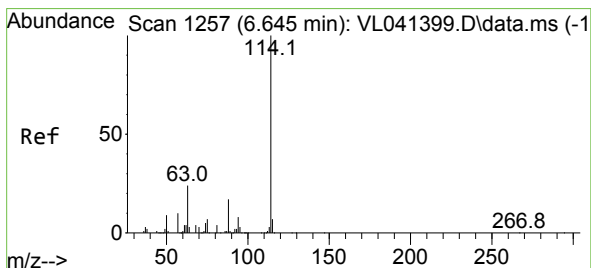
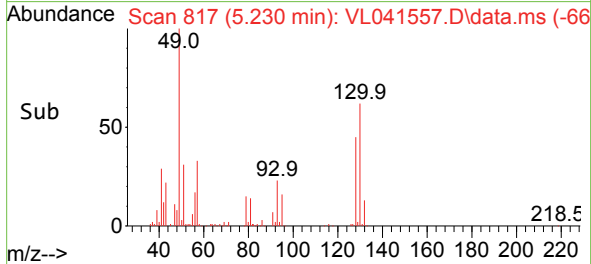
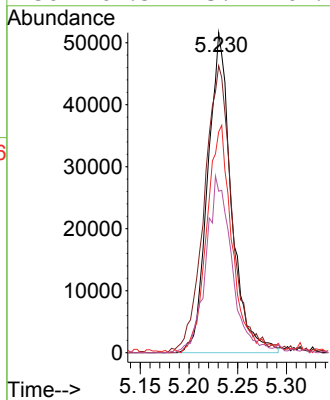
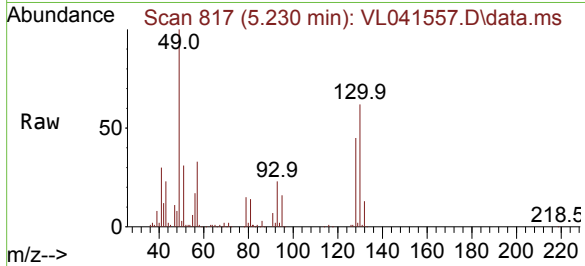




#26
Hexane
Concen: 0.982 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

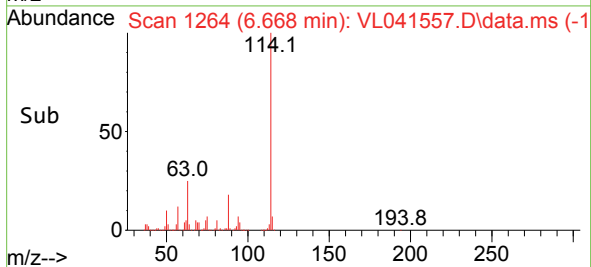
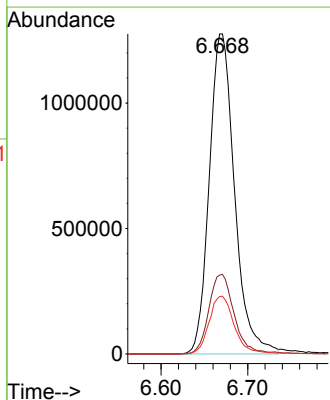
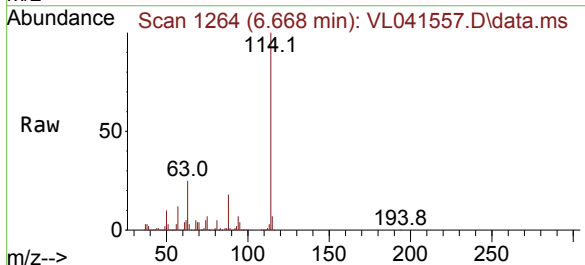
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

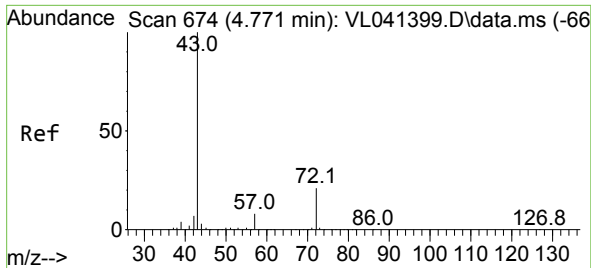
Tgt Ion: 57 Resp: 87319
Ion Ratio Lower Upper
57 100
41 107.6 74.0 111.0
43 76.3 193.6 290.4#
56 61.5 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. -0.003 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion:114 Resp: 2582196
Ion Ratio Lower Upper
114 100
63 25.2 20.3 30.5
88 18.2 14.3 21.5

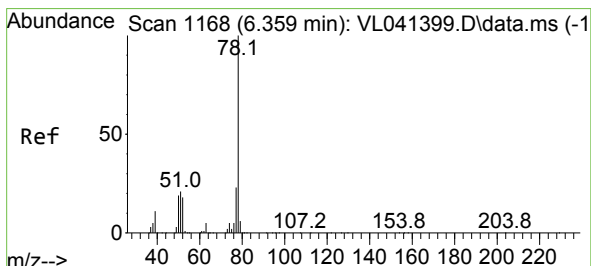
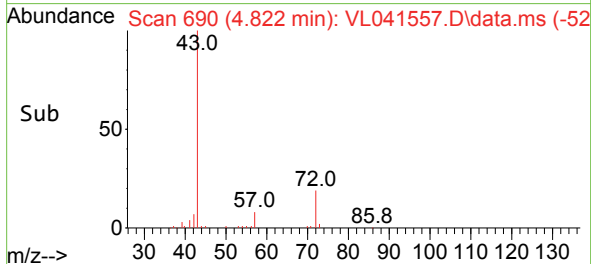
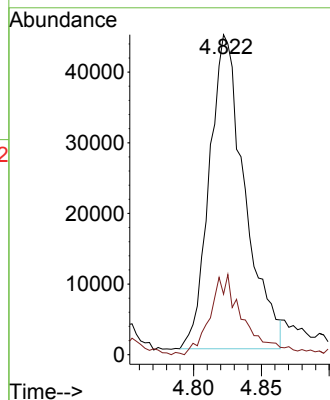
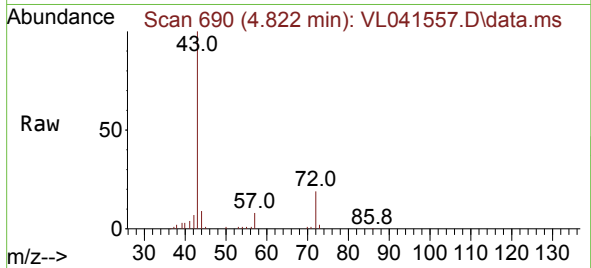




#34
2-Butanone
Concen: 0.647 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

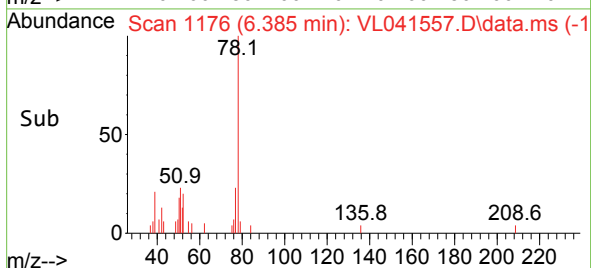
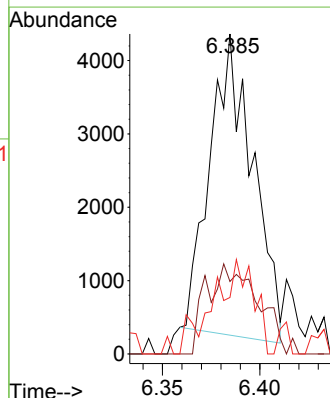
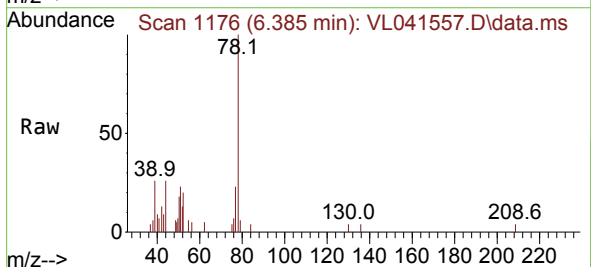
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

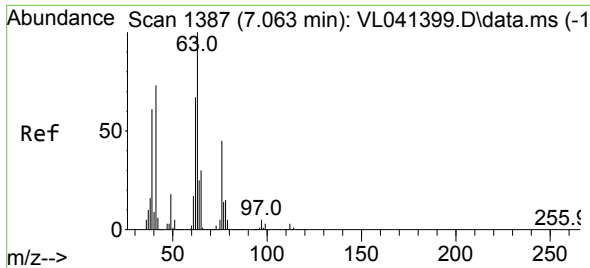
Tgt Ion: 43 Resp: 80828
Ion Ratio Lower Upper
43 100
72 24.4 17.3 25.9



#36
Benzene
Concen: 0.033 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. -0.006 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 78 Resp: 6269
Ion Ratio Lower Upper
78 100
77 24.7 18.1 27.1
50 19.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.830 ppbv

RT: 6.671 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL041557.D

Acq: 19 Aug 2024 21:36

Instrument :

MSVOA_L

ClientSampleId :

SVIDL

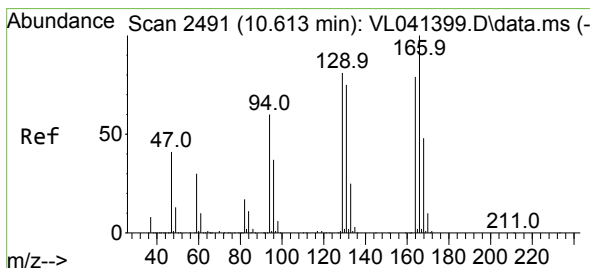
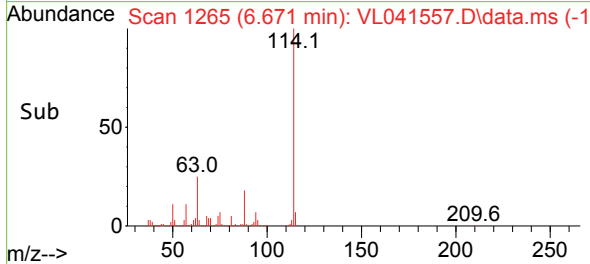
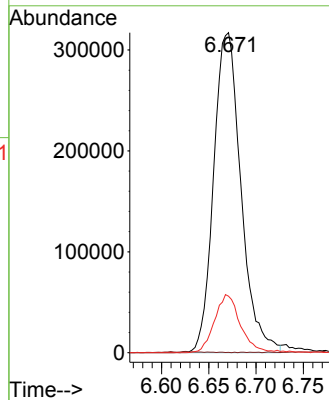
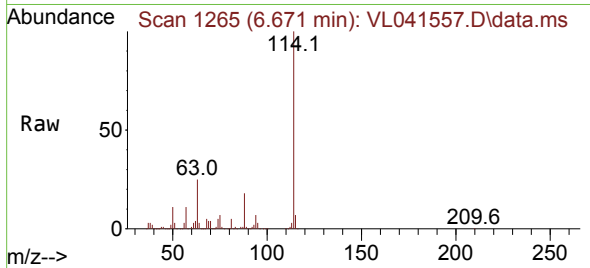
Tgt Ion: 63 Resp: 637819

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.6 53.9 80.9#



#52

Tetrachloroethene

Concen: 19.232 ppbv

RT: 10.632 min Scan# 2497

Delta R.T. -0.003 min

Lab File: VL041557.D

Acq: 19 Aug 2024 21:36

Tgt Ion:164 Resp: 1402100

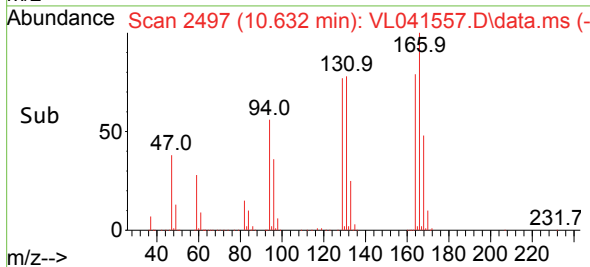
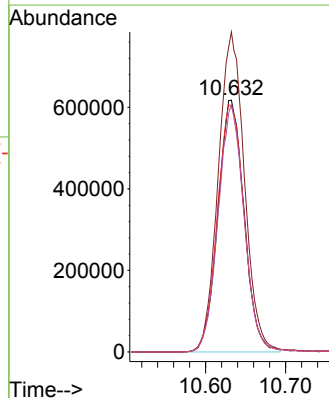
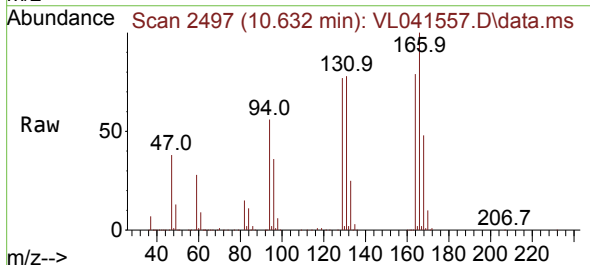
Ion Ratio Lower Upper

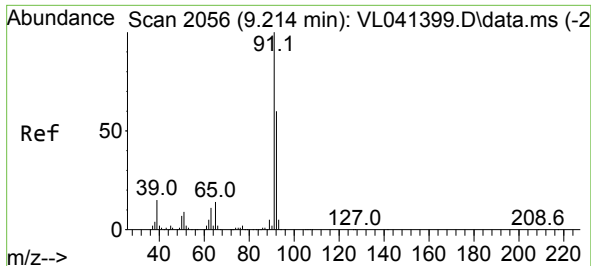
164 100

166 127.0 101.1 151.7

129 97.4 81.7 122.5

131 98.5 76.2 114.4

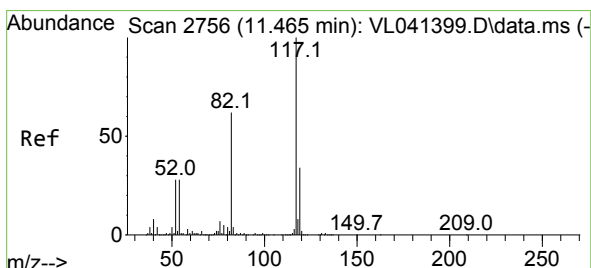
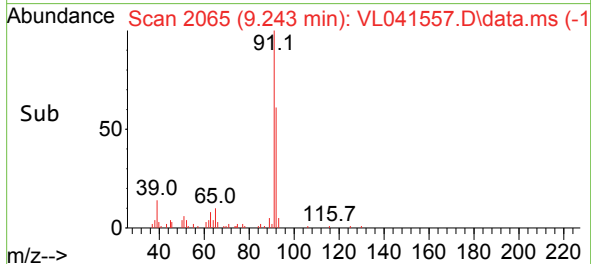
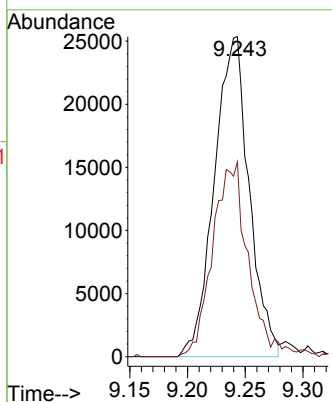
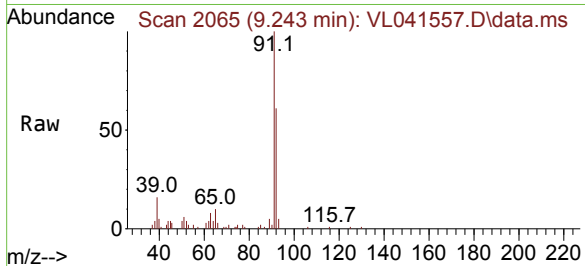




#53
Toluene
Concen: 0.253 ppbv
RT: 9.243 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

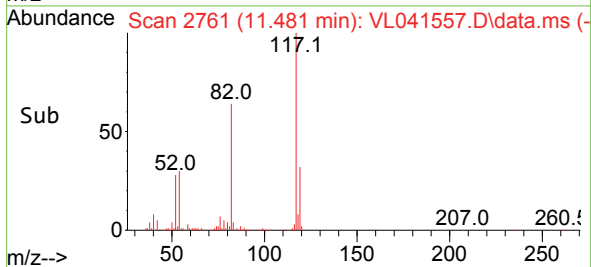
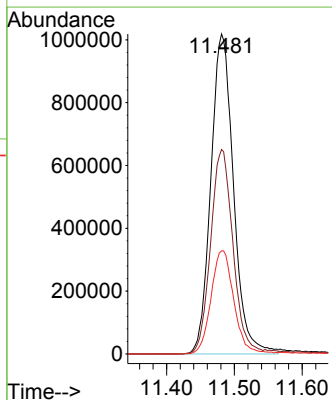
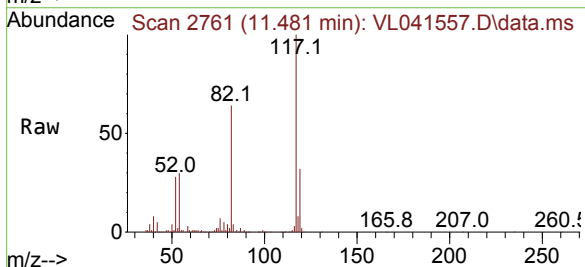
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

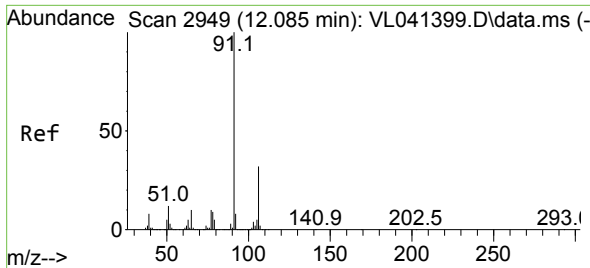
Tgt Ion: 91 Resp: 53150
Ion Ratio Lower Upper
91 100
92 62.6 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. -0.010 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 117 Resp: 2367962
Ion Ratio Lower Upper
117 100
82 65.0 51.0 76.6
119 33.0 45.2 67.8#

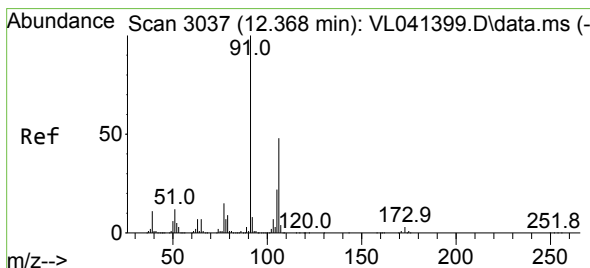
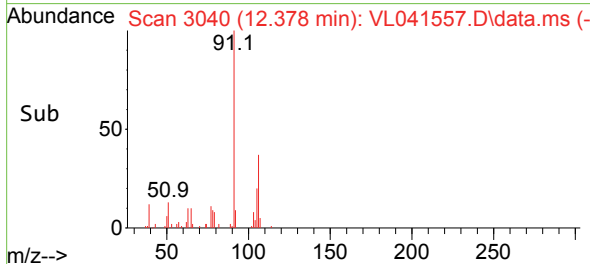
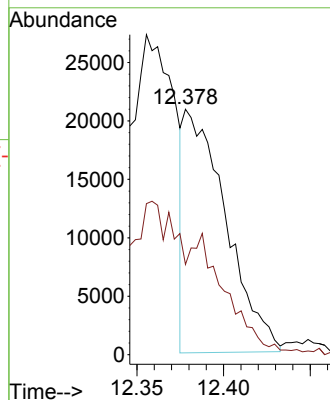
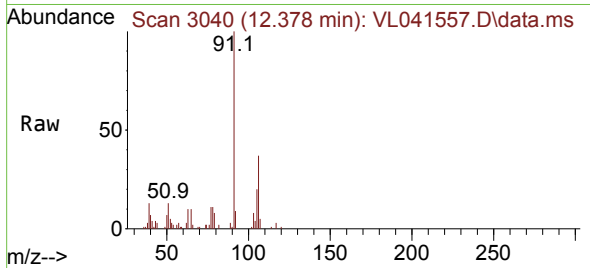




#58
Ethyl Benzene
Concen: 0.129 ppbv
RT: 12.378 min Scan# 3040
Delta R.T. 0.267 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

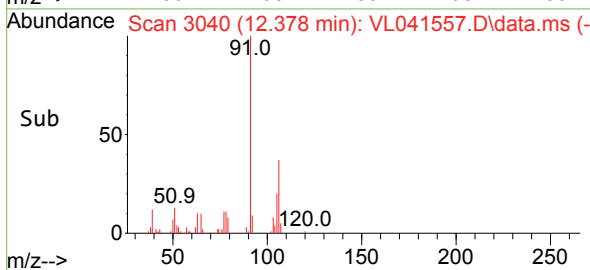
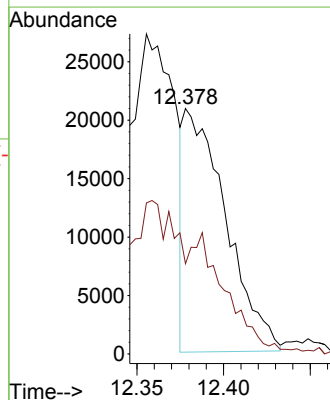
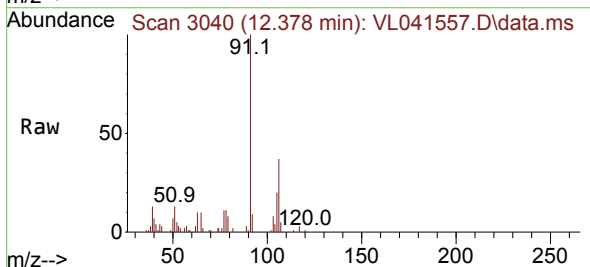
Instrument :
MSVOA_L
ClientSampleId :
SVIDL

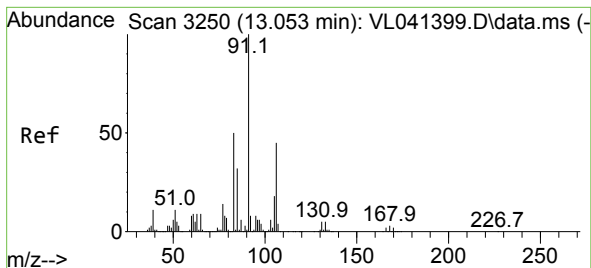
Tgt Ion: 91 Resp: 35114
Ion Ratio Lower Upper
91 100
106 36.1 25.8 38.8



#59
m/p-Xylene
Concen: 0.149 ppbv
RT: 12.378 min Scan# 3040
Delta R.T. -0.016 min
Lab File: VL041557.D
Acq: 19 Aug 2024 21:36

Tgt Ion: 91 Resp: 35114
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#





#60

o-Xylene

Concen: 0.097 ppbv

RT: 13.073 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL041557.D

Acq: 19 Aug 2024 21:36

Instrument :

MSVOA_L

ClientSampleId :

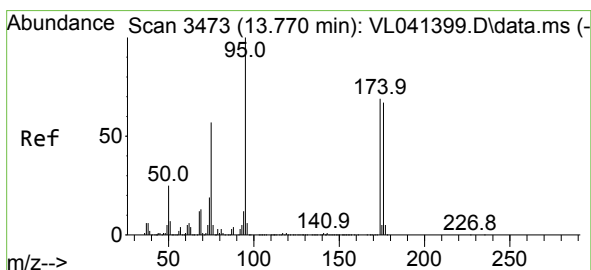
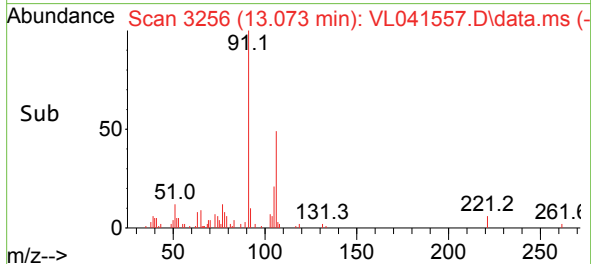
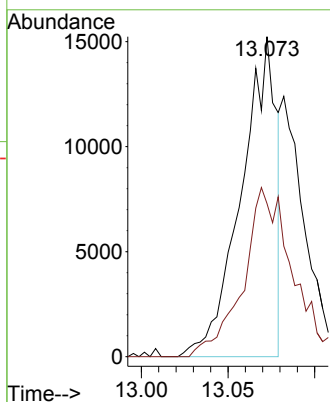
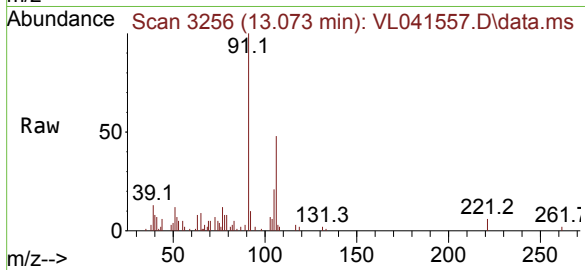
SVIDL

Tgt Ion: 91 Resp: 21557

Ion Ratio Lower Upper

91 100

106 74.9 23.1 69.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.905 ppbv

RT: 13.790 min Scan# 3479

Delta R.T. -0.010 min

Lab File: VL041557.D

Acq: 19 Aug 2024 21:36

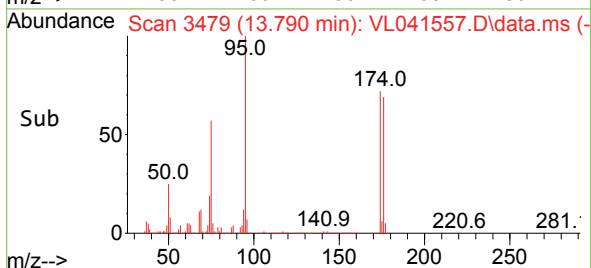
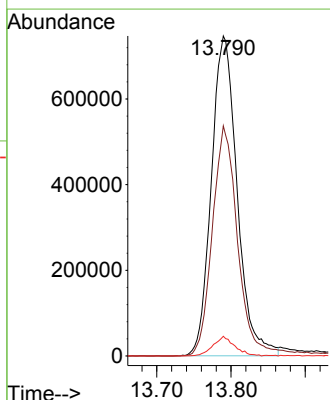
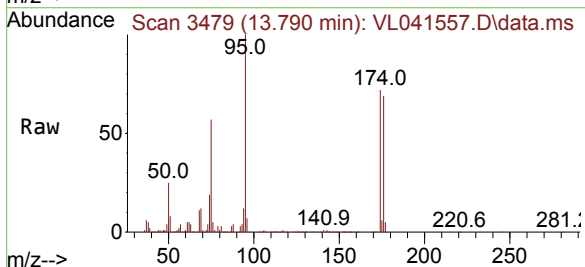
Tgt Ion: 95 Resp: 1804911

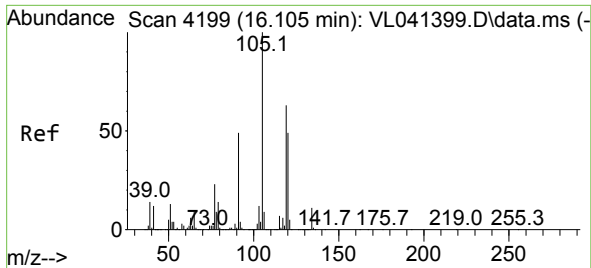
Ion Ratio Lower Upper

95 100

174 72.7 56.3 84.5

175 5.3 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.202 ppbv

RT: 16.121 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL041557.D

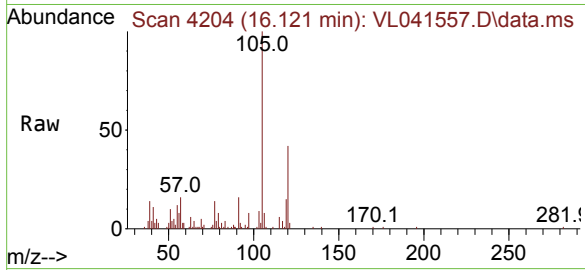
Acq: 19 Aug 2024 21:36

Instrument :

MSVOA_L

ClientSampleId :

SVIDL



Tgt Ion:105 Resp: 53062

Ion Ratio Lower Upper

105 100

120 41.8 39.5 59.3

91 16.0 39.8 59.8#

77 13.6 18.2 27.4#

