

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081523\
 Data File : VL040641.D
 Acq On : 15 Aug 2023 20:49
 Operator : SY/MD
 Sample : 03861-01DL2 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 16 05:58:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

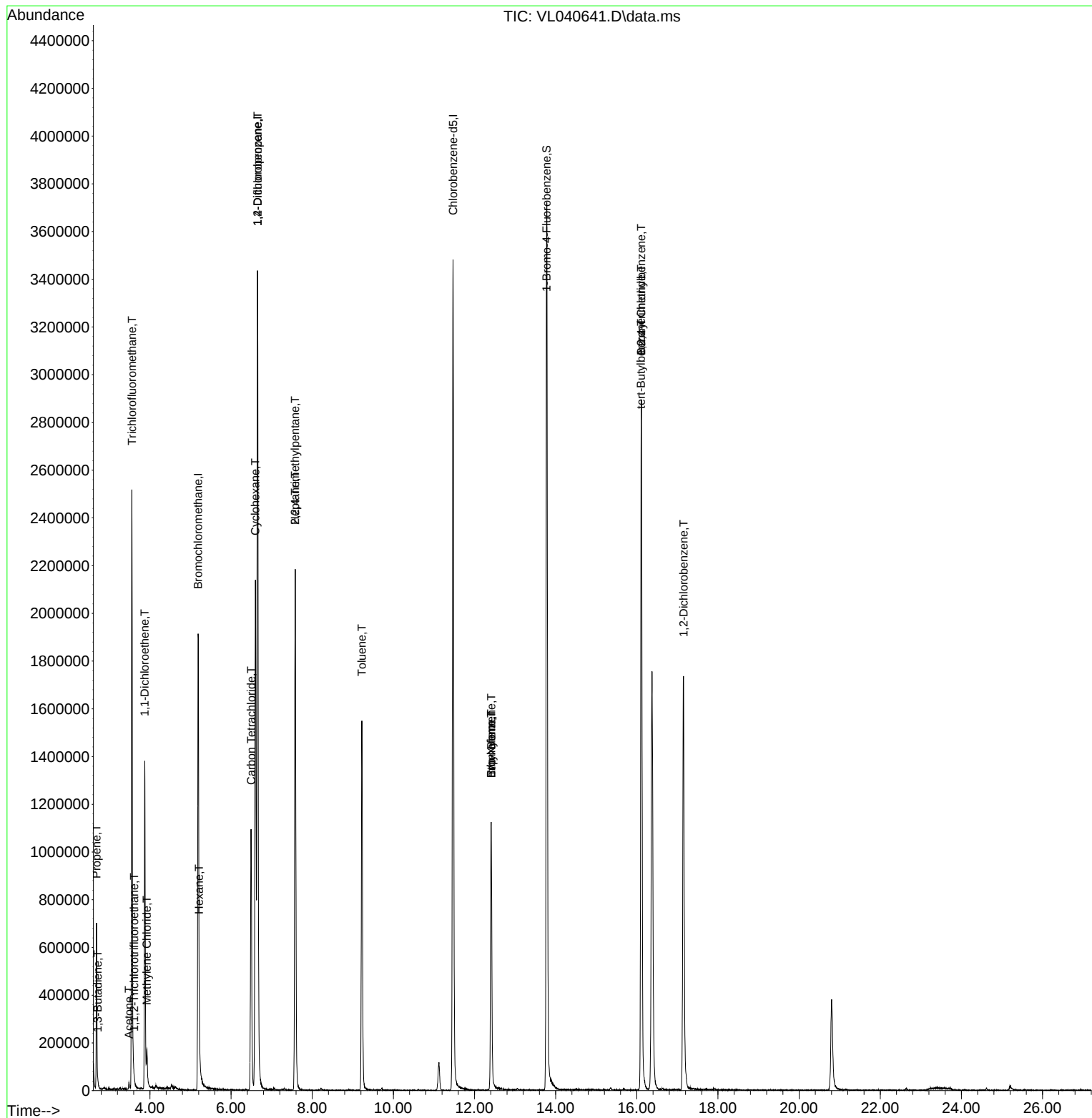
Internal Standards						
1) Bromochloromethane	5.189	49	923223	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2452672	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2134196	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1725898	10.168	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
						Qvalue
9) Propene	2.684	41	260647	5.549	ppbv	100
10) Heptane	7.581	43	919710	8.503	ppbv	99
11) Trichlorofluoromethane	3.555	101	1663164	10.360	ppbv	98
12) 1,1,2-Trichlorotrifluo...	3.613	101	12457	0.105	ppbv #	15
15) Acetone	3.485	43	24942	0.221	ppbv #	88
16) 1,3-Butadiene	2.713	39	7153	0.127	ppbv #	8
18) 1,1-Dichloroethene	3.874	96	402420	7.452	ppbv	99
20) Methylene Chloride	3.925	84	22250	0.403	ppbv	93
26) Hexane	5.211	57	7792	0.076	ppbv #	43
30) Cyclohexane	6.600	84	735999	9.374	ppbv	98
35) Carbon Tetrachloride	6.494	117	655694	4.273	ppbv	99
39) 1,2-Dichloropropane	6.652	63	613653	8.267	ppbv #	27
44) 2,2,4-Trimethylpentane	7.581	57	482891	1.531	ppbv #	1
49) Bromoform	12.410	173	599482	5.701	ppbv	99
53) Toluene	9.224	91	1164009	5.614	ppbv	99
58) Ethyl Benzene	12.410	91	190916	0.742	ppbv #	44
59) m/p-Xylene	12.410	91	190916	0.813	ppbv #	32
65) tert-Butylbenzene	16.105	119	99041	0.339	ppbv #	18
66) Benzyl Chloride	16.111	91	295221	8.044	ppbv #	66
74) 1,2,4-Trimethylbenzene	16.111	105	2268039	8.649	ppbv #	70
77) 1,2-Dichlorobenzene	17.153	146	858036	5.752	ppbv	99

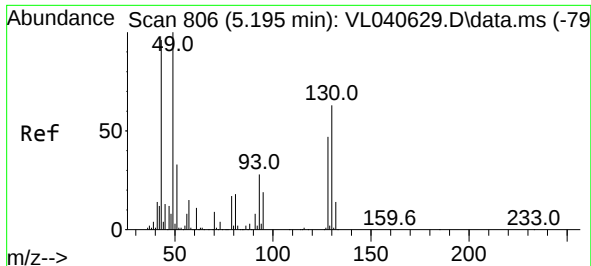
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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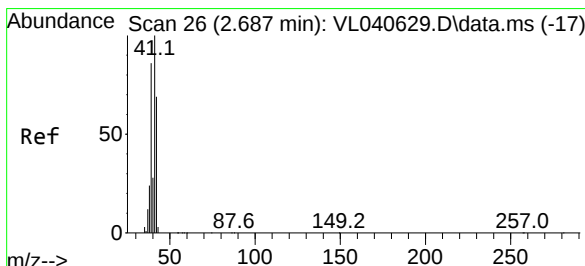
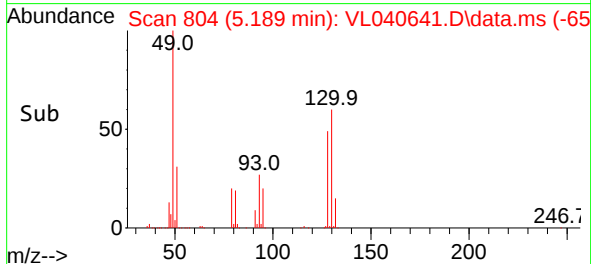
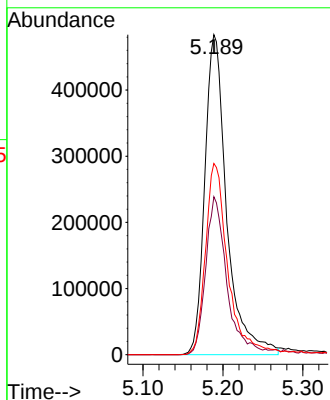
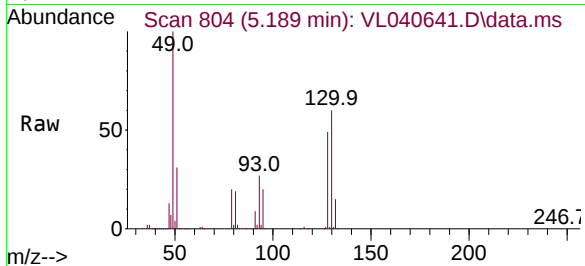




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

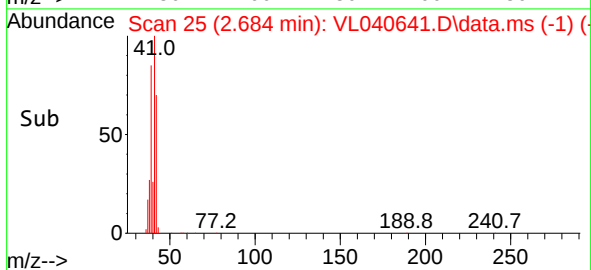
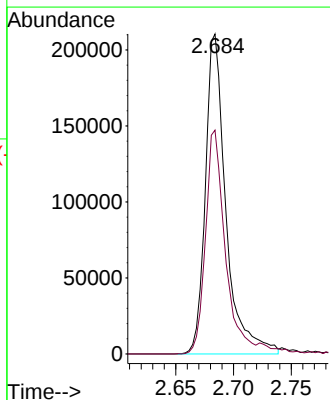
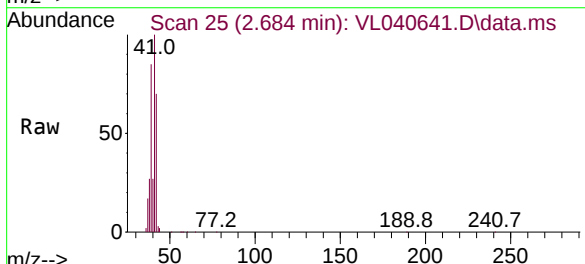
Instrument :
MSVOA_L
ClientSampleId :

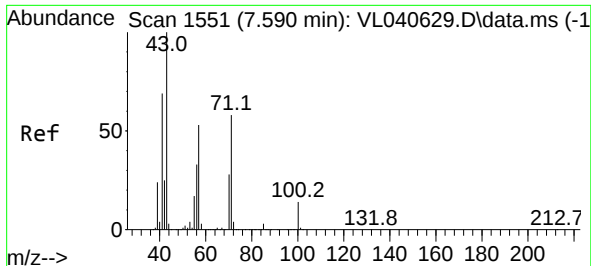
Tgt Ion: 49 Resp: 923223
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.7
130 62.0 32.2 96.6



#9
Propene
Concen: 5.549 ppbv
RT: 2.684 min Scan# 25
Delta R.T. -0.003 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 41 Resp: 260647
Ion Ratio Lower Upper
41 100
42 70.8 56.5 84.7

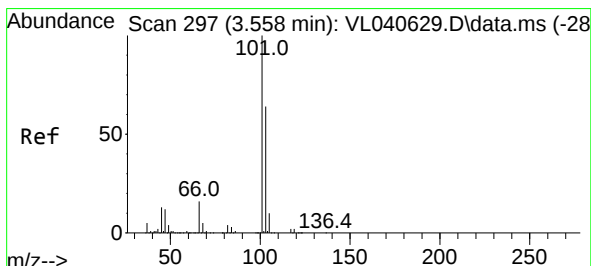
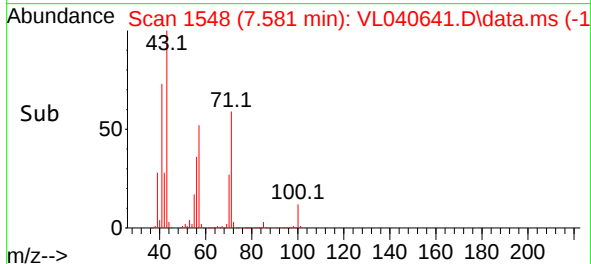
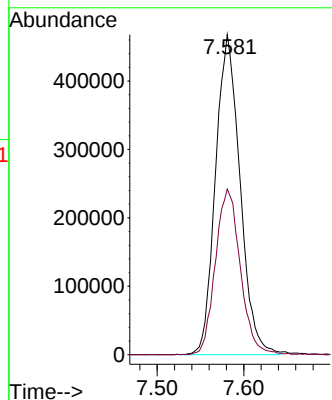
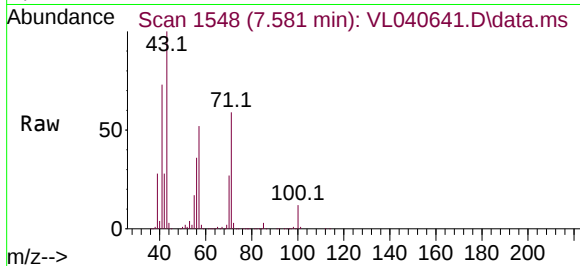




#10
Heptane
Concen: 8.503 ppbv
RT: 7.581 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

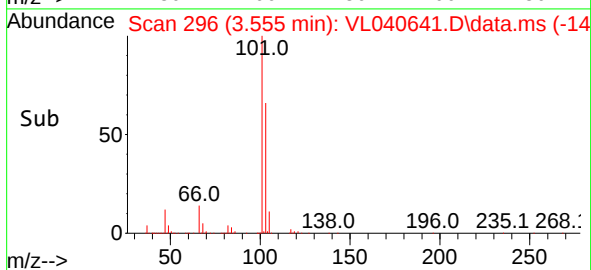
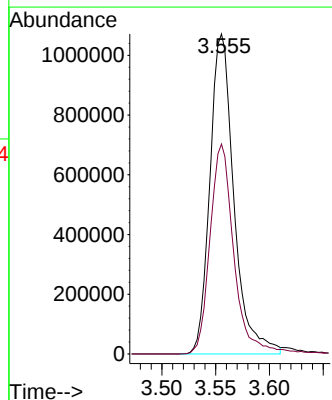
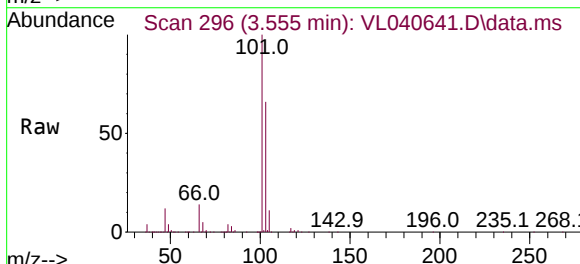
Instrument :
MSVOA_L
ClientSampleId :

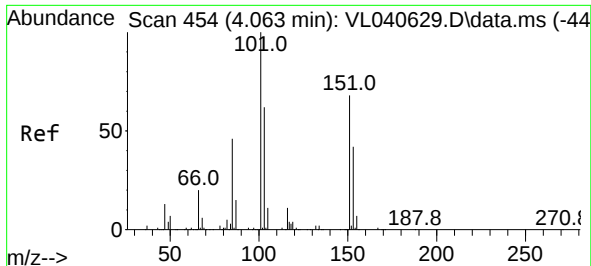
Tgt Ion: 43 Resp: 919710
Ion Ratio Lower Upper
43 100
57 52.7 42.5 63.7



#11
Trichlorofluoromethane
Concen: 10.360 ppbv
RT: 3.555 min Scan# 296
Delta R.T. -0.003 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion:101 Resp: 1663164
Ion Ratio Lower Upper
101 100
103 65.6 51.1 76.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.105 ppbv

RT: 3.613 min Scan# 314

Delta R.T. -0.450 min

Lab File: VL040641.D

Acq: 15 Aug 2023 20:49

Instrument :

MSVOA_L

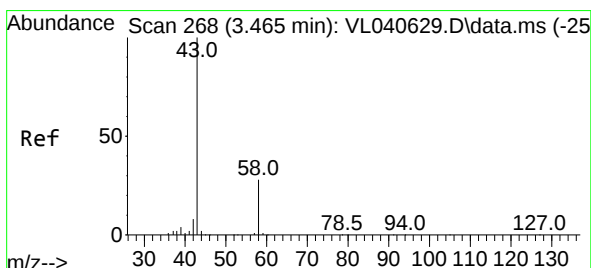
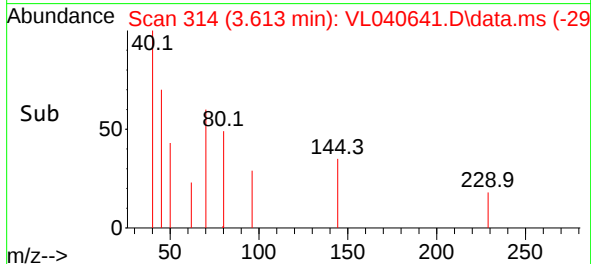
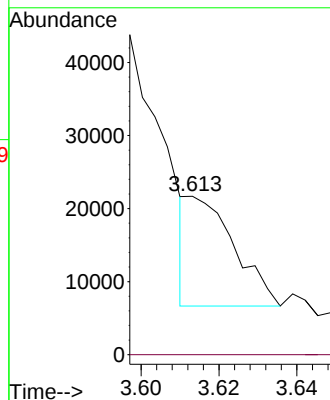
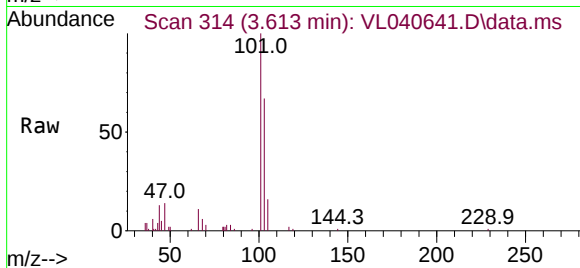
ClientSampleId :

Tgt Ion:101 Resp: 12457

Ion Ratio Lower Upper

101 100

151 0.0 56.2 84.2#



#15

Acetone

Concen: 0.221 ppbv

RT: 3.485 min Scan# 274

Delta R.T. 0.019 min

Lab File: VL040641.D

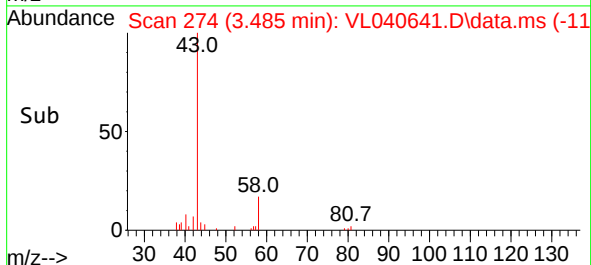
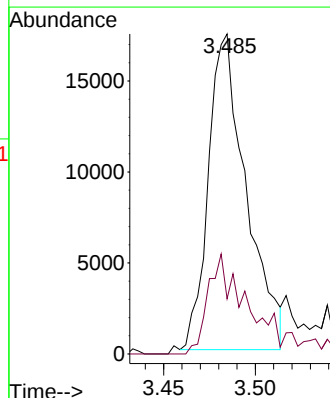
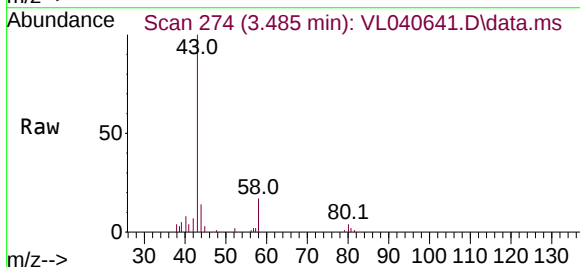
Acq: 15 Aug 2023 20:49

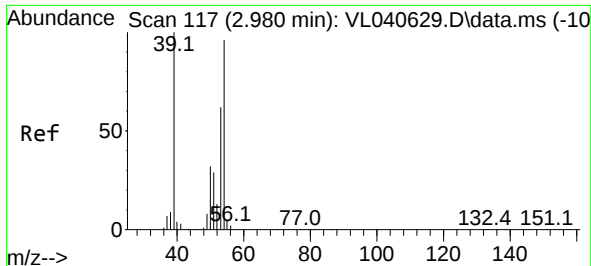
Tgt Ion: 43 Resp: 24942

Ion Ratio Lower Upper

43 100

58 34.5 22.4 33.6#





#16

1,3-Butadiene

Concen: 0.127 ppbv

RT: 2.713 min Scan# 34

Delta R.T. -0.267 min

Lab File: VL040641.D

Acq: 15 Aug 2023 20:49

Instrument :

MSVOA_L

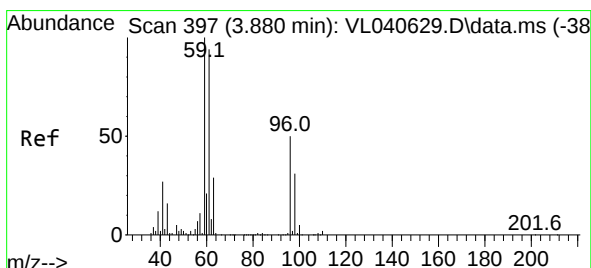
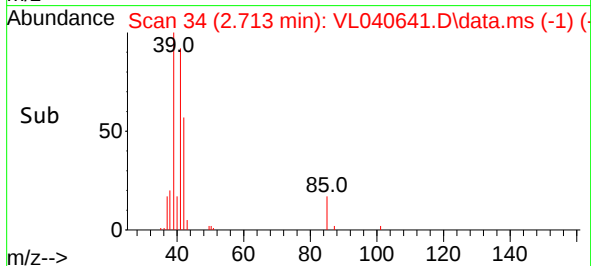
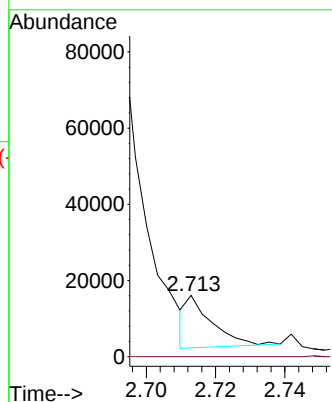
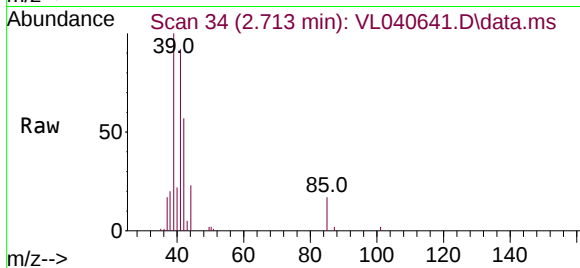
ClientSampleId :

Tgt Ion: 39 Resp: 7153

Ion Ratio Lower Upper

39 100

54 0.0 66.6 99.8#



#18

1,1-Dichloroethene

Concen: 7.452 ppbv

RT: 3.874 min Scan# 395

Delta R.T. -0.006 min

Lab File: VL040641.D

Acq: 15 Aug 2023 20:49

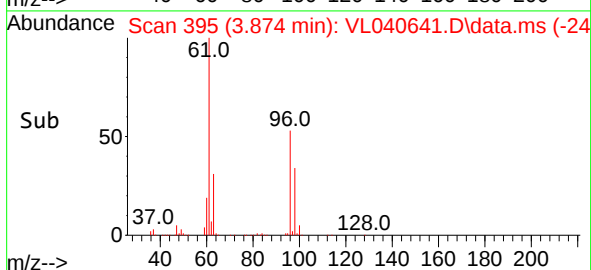
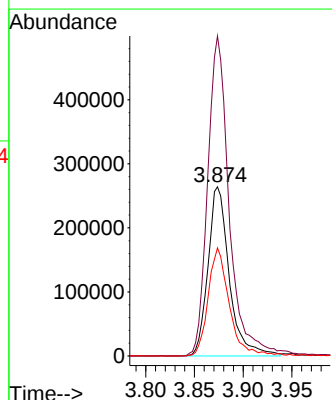
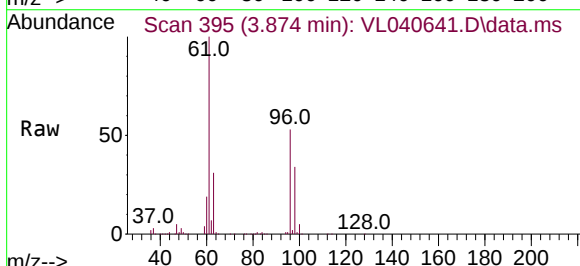
Tgt Ion: 96 Resp: 402420

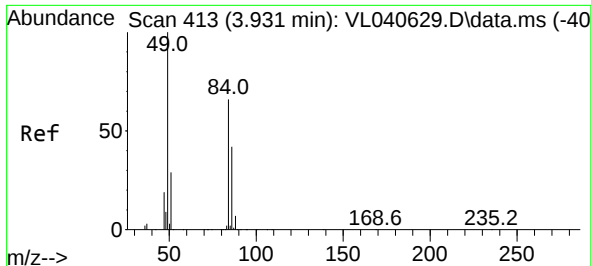
Ion Ratio Lower Upper

96 100

61 189.2 150.4 225.6

98 63.9 49.7 74.5

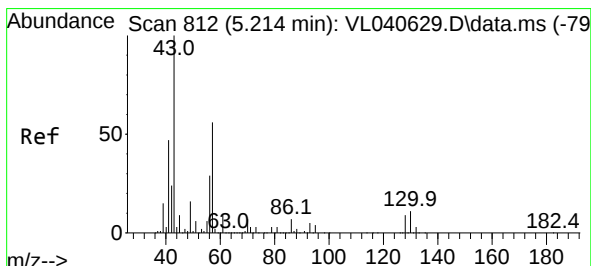
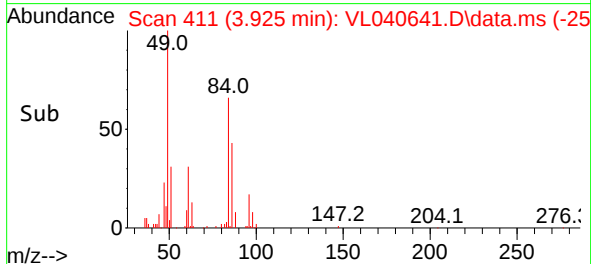
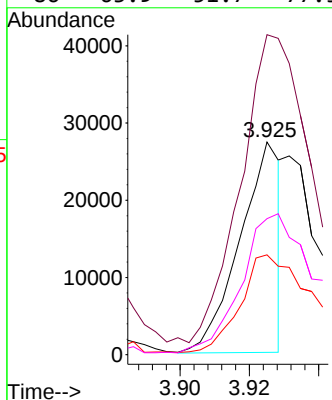
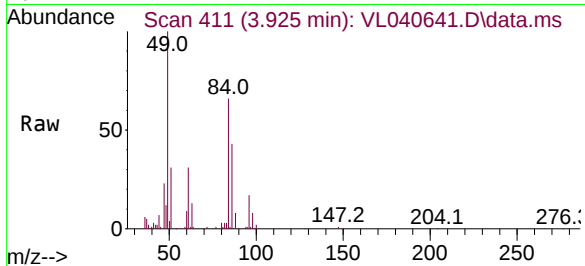




#20
Methylene Chloride
Concen: 0.403 ppbv
RT: 3.925 min Scan# 411
Delta R.T. -0.006 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

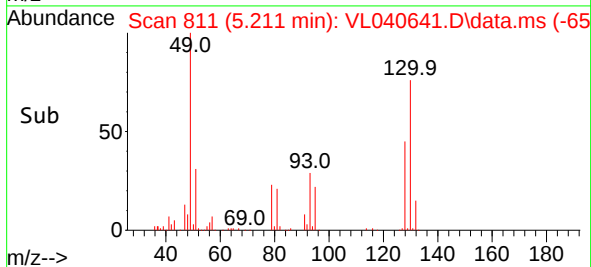
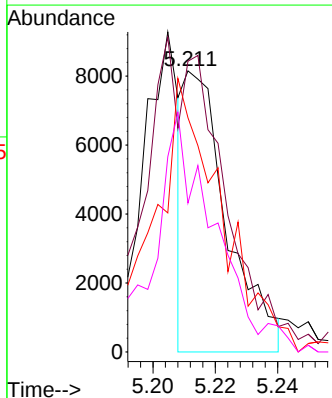
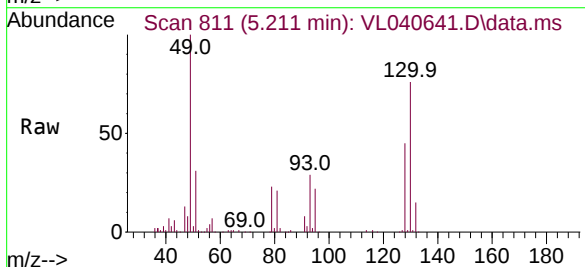
Instrument :
MSVOA_L
ClientSampleId :

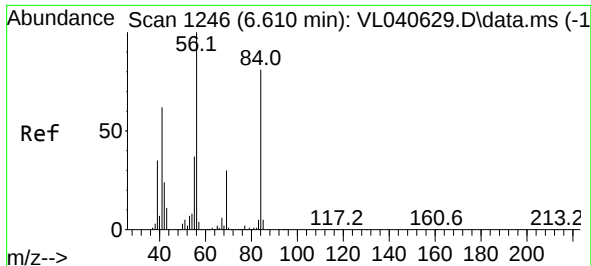
Tgt Ion: 84 Resp: 22250
Ion Ratio Lower Upper
84 100
49 139.9 122.1 183.1
51 46.4 35.4 53.2
86 63.9 51.7 77.5



#26
Hexane
Concen: 0.076 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 57 Resp: 7792
Ion Ratio Lower Upper
57 100
41 0.0 69.3 103.9#
43 167.4 177.9 266.9#
56 117.5 42.5 63.7#

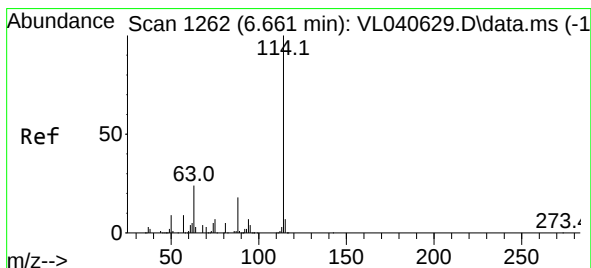
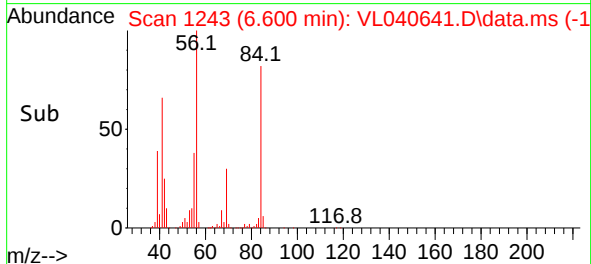
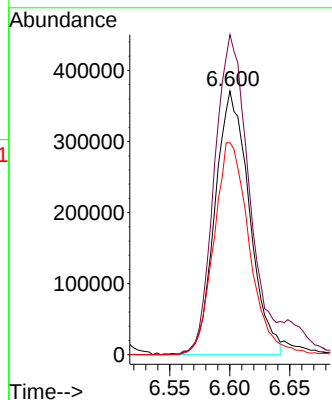
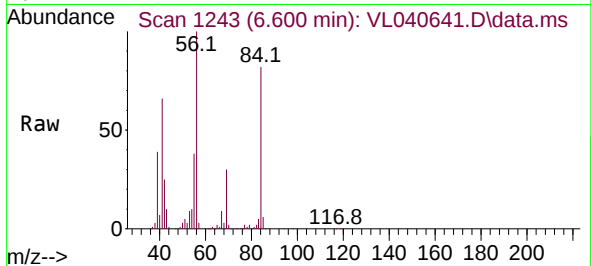




#30
Cyclohexane
Concen: 9.374 ppbv
RT: 6.600 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

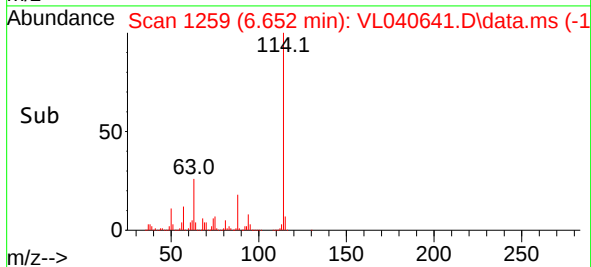
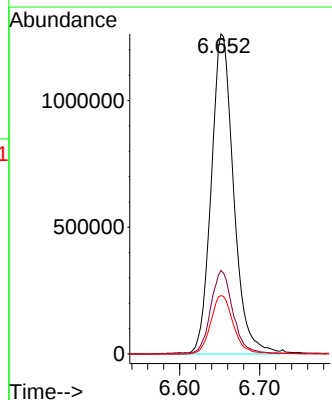
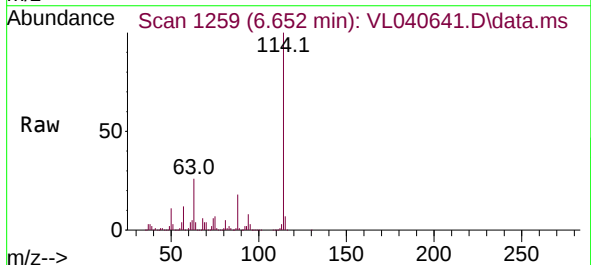
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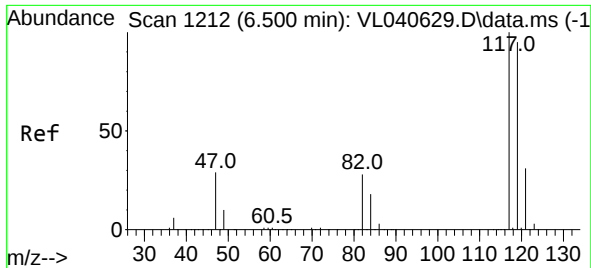
Tgt Ion: 84 Resp: 735999
Ion Ratio Lower Upper
84 100
56 133.0 105.4 158.2
41 83.8 64.2 96.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.010 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 114 Resp: 2452672
Ion Ratio Lower Upper
114 100
63 26.5 20.2 30.2
88 18.5 14.1 21.1

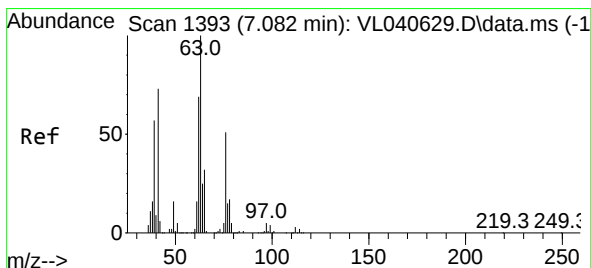
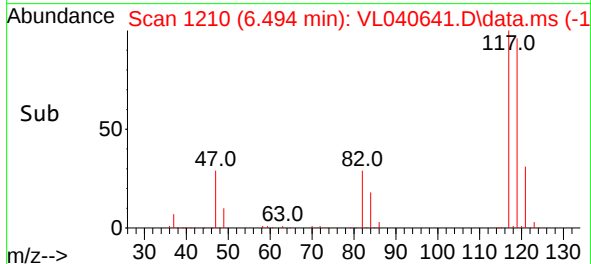
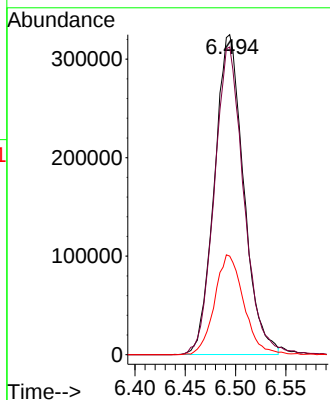
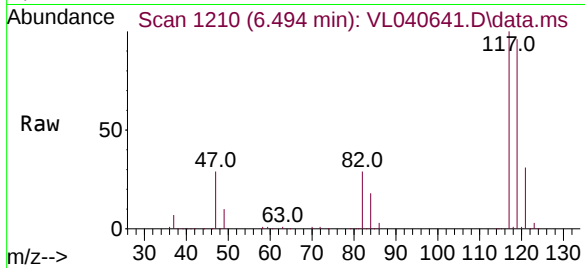




#35
Carbon Tetrachloride
Concen: 4.273 ppbv
RT: 6.494 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

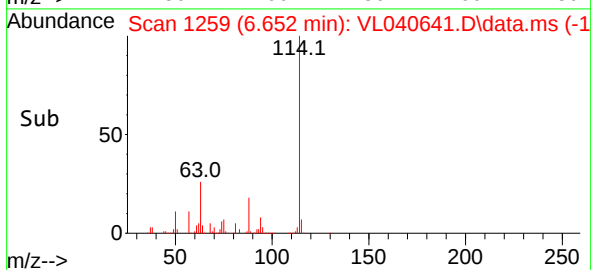
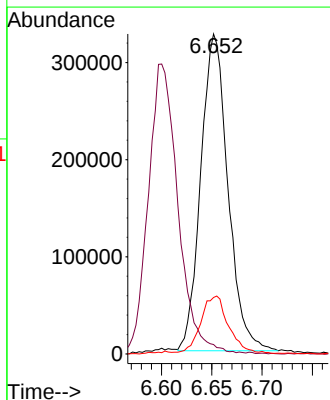
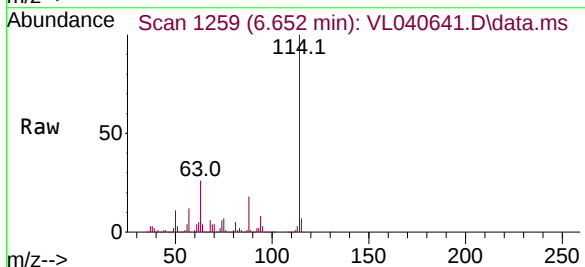
Instrument :
MSVOA_L
ClientSampleId :

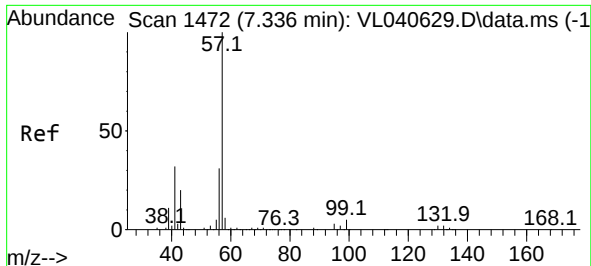
Tgt Ion:117 Resp: 655694
Ion Ratio Lower Upper
117 100
119 96.1 75.6 113.4
121 30.9 24.9 37.3



#39
1,2-Dichloropropane
Concen: 8.267 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.431 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

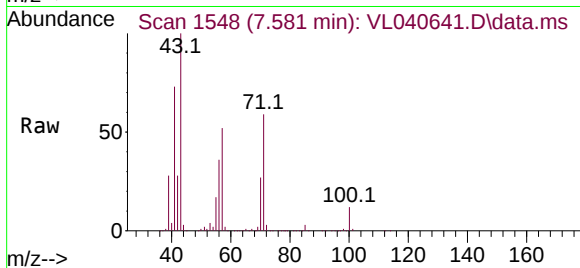
Tgt Ion: 63 Resp: 613653
Ion Ratio Lower Upper
63 100
41 2.9 58.2 87.2#
62 17.6 55.0 82.4#



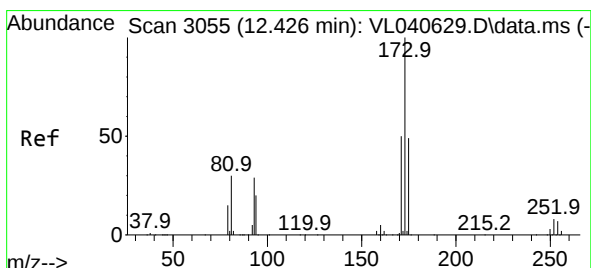
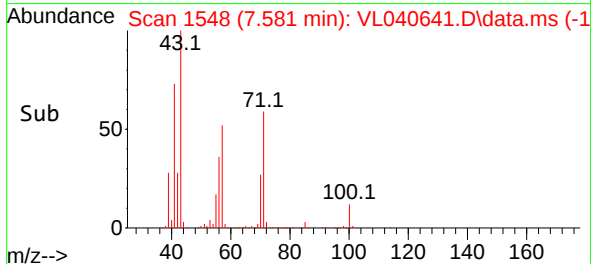
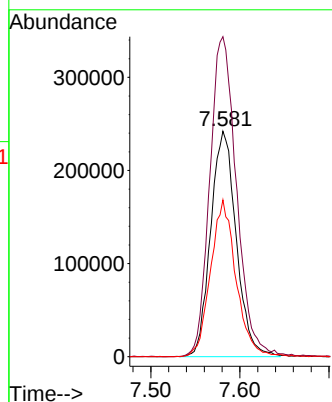


#44
2,2,4-Trimethylpentane
Concen: 1.531 ppbv
RT: 7.581 min Scan# 1
Delta R.T. 0.244 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Instrument :
MSVOA_L
ClientSampleId :

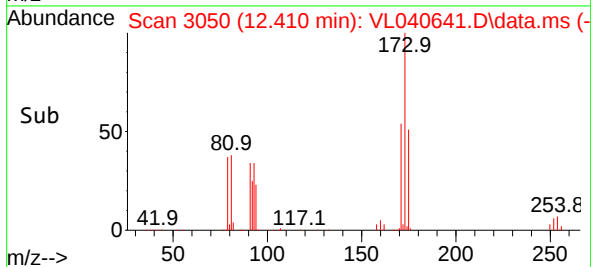
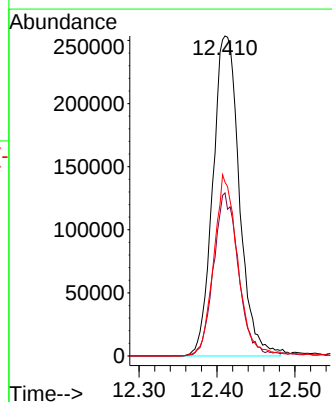
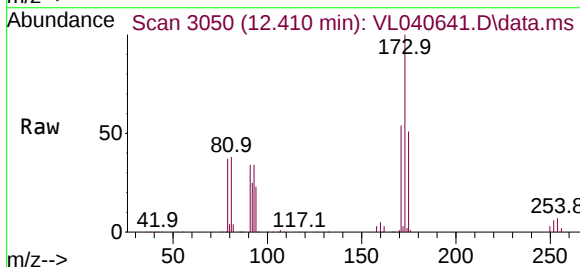


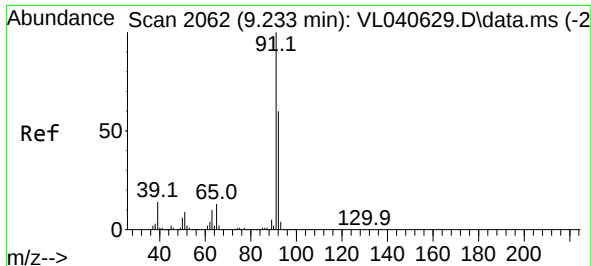
Tgt Ion: 57 Resp: 482891
Ion Ratio Lower Upper
57 100
41 149.2 26.2 39.4#
56 69.5 24.7 37.1#



#49
Bromoform
Concen: 5.701 ppbv
RT: 12.410 min Scan# 3050
Delta R.T. -0.016 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 173 Resp: 599482
Ion Ratio Lower Upper
173 100
175 48.6 39.0 58.6
171 51.6 41.9 62.9

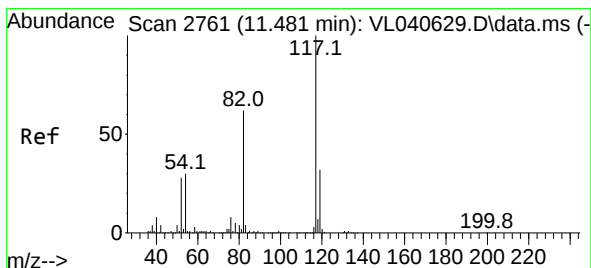
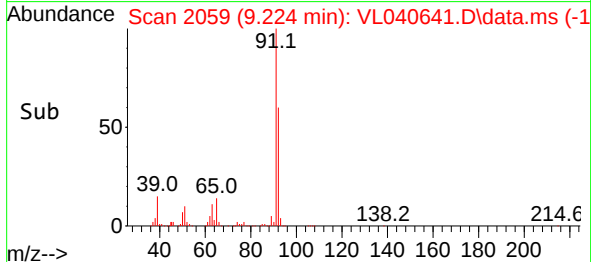
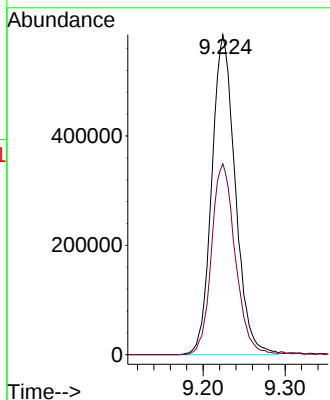
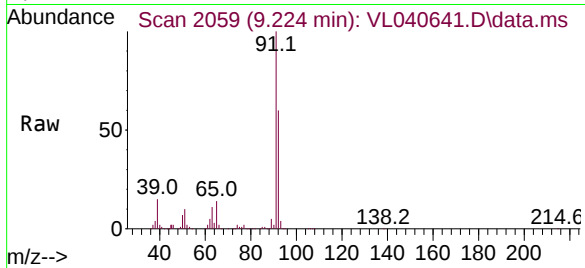




#53
Toluene
Concen: 5.614 ppbv
RT: 9.224 min Scan# 2062
Delta R.T. -0.010 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

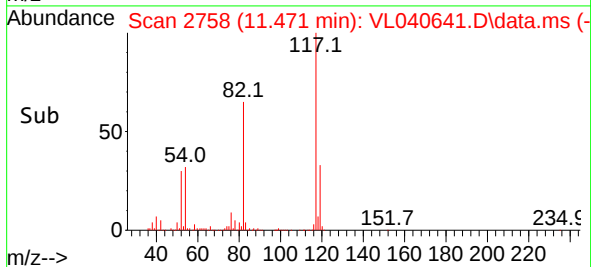
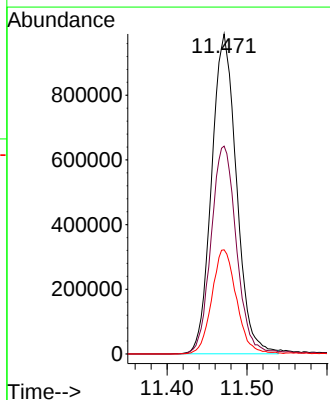
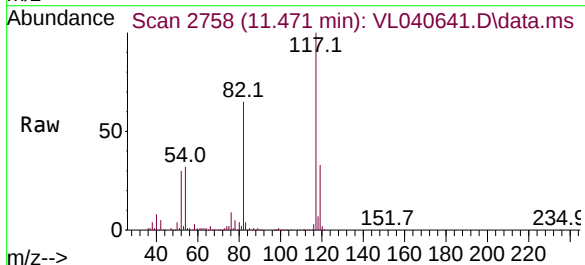
Instrument :
MSVOA_L
ClientSampleId :

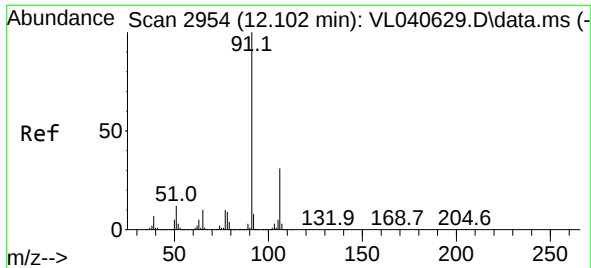
Tgt Ion: 91 Resp: 1164009
Ion Ratio Lower Upper
91 100
92 60.8 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.010 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 117 Resp: 2134196
Ion Ratio Lower Upper
117 100
82 67.0 49.5 74.3
119 32.8 24.5 36.7

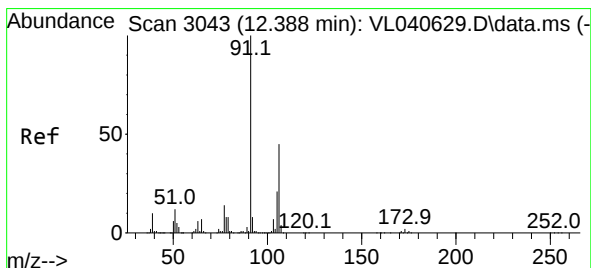
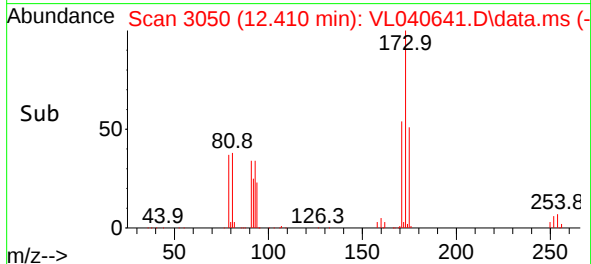
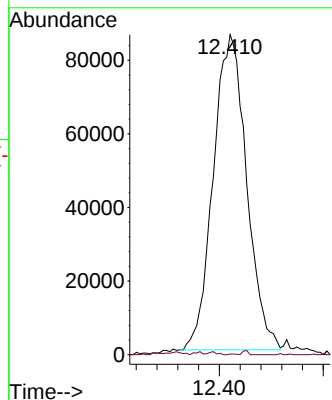
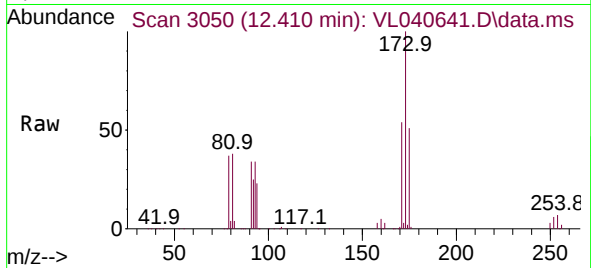




#58
Ethyl Benzene
Concen: 0.742 ppbv
RT: 12.410 min Scan# 3050
Delta R.T. 0.309 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

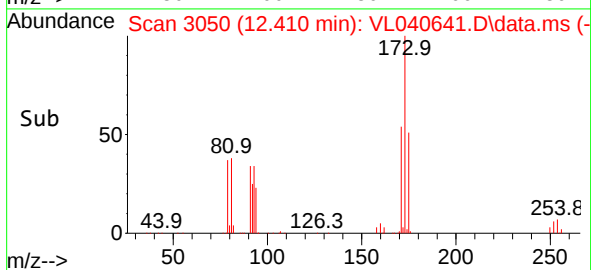
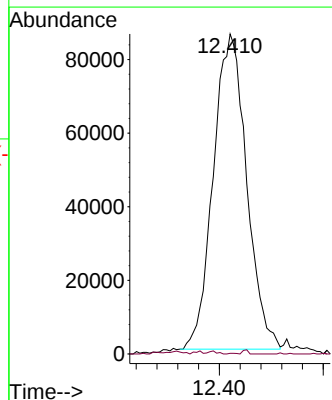
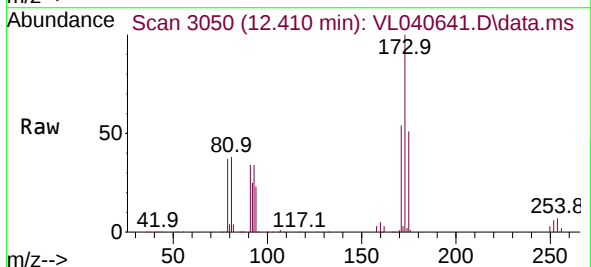
Instrument :
MSVOA_L
ClientSampleId :

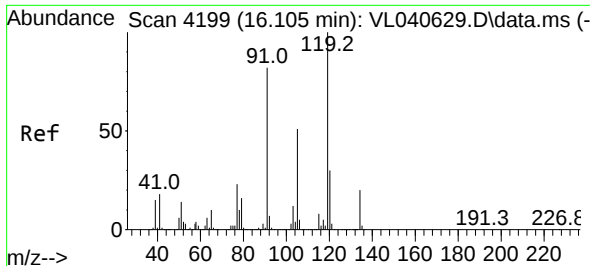
Tgt Ion: 91 Resp: 190916
Ion Ratio Lower Upper
91 100
106 0.0 24.6 36.8#



#59
m/p-Xylene
Concen: 0.813 ppbv
RT: 12.410 min Scan# 3050
Delta R.T. 0.023 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 91 Resp: 190916
Ion Ratio Lower Upper
91 100
106 0.3 35.3 52.9#

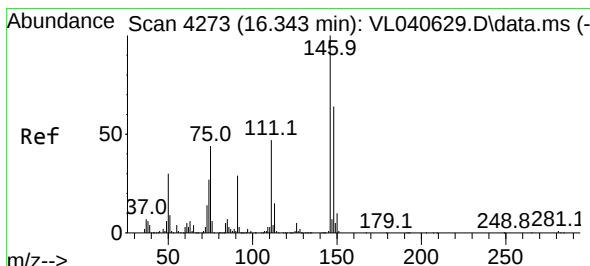
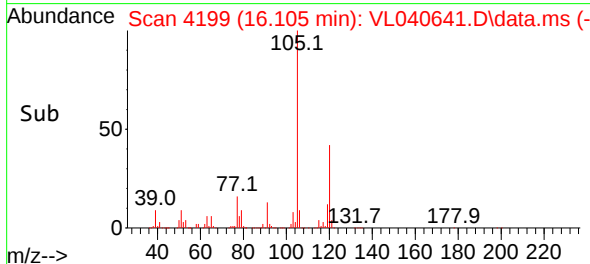
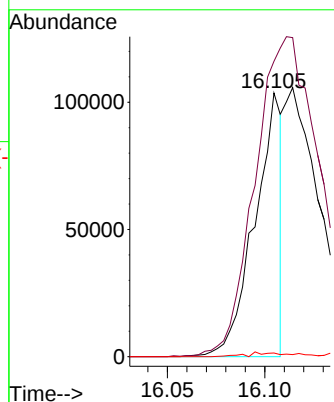
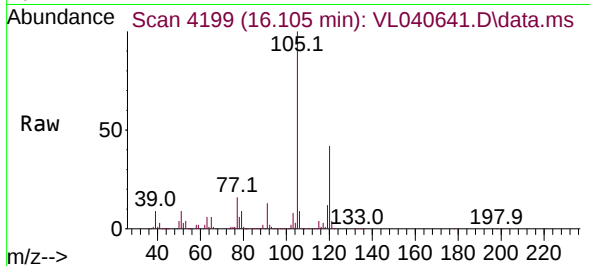




#65
tert-Butylbenzene
Concen: 0.339 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. 0.000 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

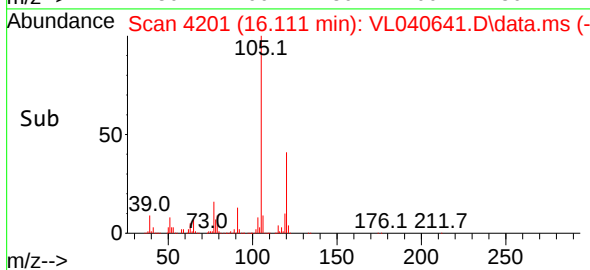
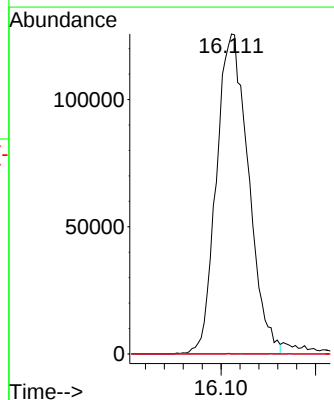
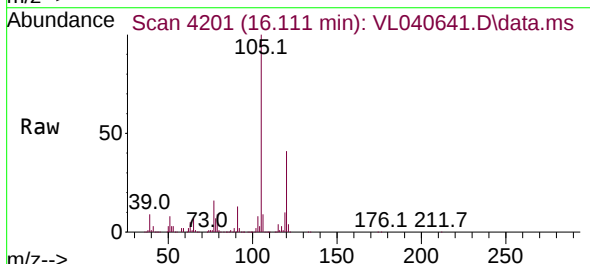
Instrument :
MSVOA_L
ClientSampleId :

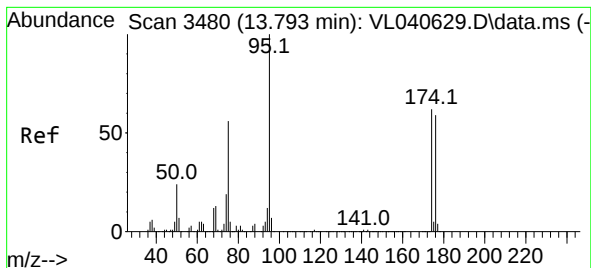
Tgt Ion:119 Resp: 99041
Ion Ratio Lower Upper
119 100
91 0.0 67.8 101.6#
134 2.8 15.7 23.5#



#66
Benzyl Chloride
Concen: 8.044 ppbv
RT: 16.111 min Scan# 4201
Delta R.T. -0.231 min
Lab File: VL040641.D
Acq: 15 Aug 2023 20:49

Tgt Ion: 91 Resp: 295221
Ion Ratio Lower Upper
91 100
126 0.0 13.6 20.4#
128 0.0 4.3 6.5#

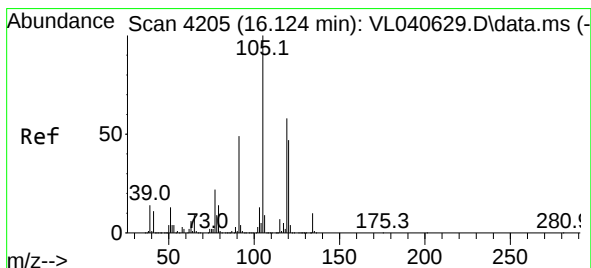
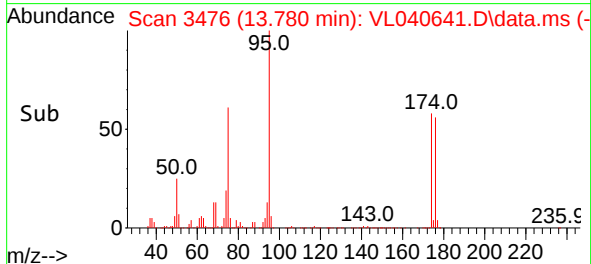
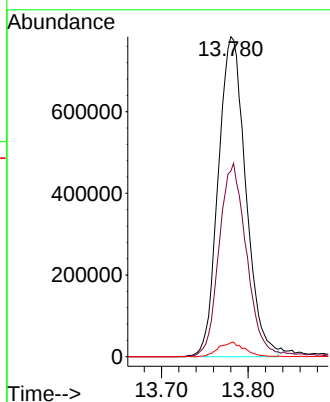
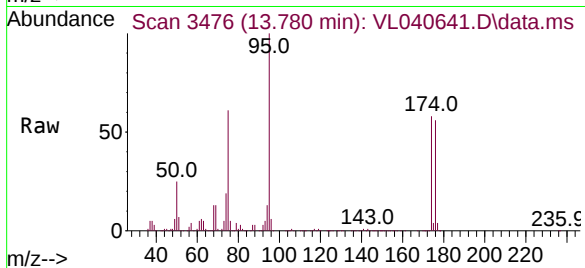




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.168 ppbv
 RT: 13.780 min Scan# 3480
 Delta R.T. -0.013 min
 Lab File: VL040641.D
 Acq: 15 Aug 2023 20:49

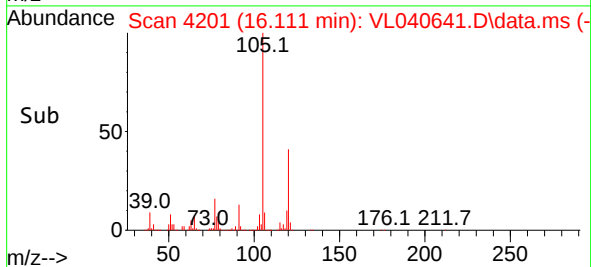
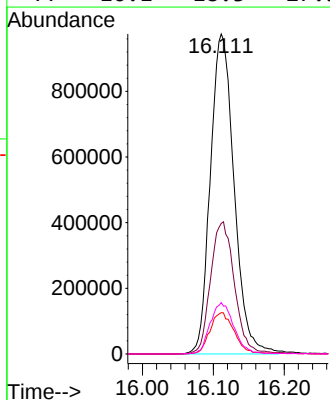
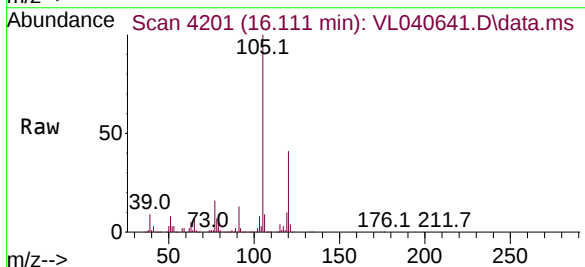
Instrument :
 MSVOA_L
 ClientSampleId :

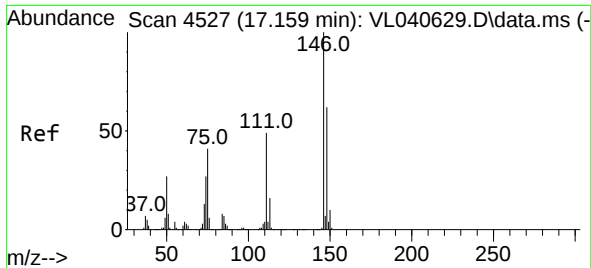
Tgt Ion: 95 Resp: 1725898
 Ion Ratio Lower Upper
 95 100
 174 61.3 49.1 73.7
 175 4.3 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 8.649 ppbv
 RT: 16.111 min Scan# 4201
 Delta R.T. -0.013 min
 Lab File: VL040641.D
 Acq: 15 Aug 2023 20:49

Tgt Ion: 105 Resp: 2268039
 Ion Ratio Lower Upper
 105 100
 120 40.8 37.7 56.5
 91 12.9 41.2 61.8#
 77 16.1 18.3 27.5#





#77

1,2-Dichlorobenzene

Concen: 5.752 ppbv

RT: 17.153 min Scan# 4

Delta R.T. -0.006 min

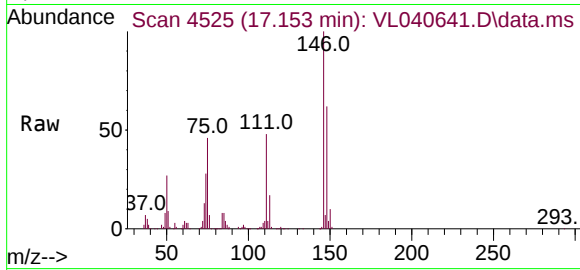
Lab File: VL040641.D

Acq: 15 Aug 2023 20:49

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:146 Resp: 858036

Ion Ratio Lower Upper

146 100

111 50.7 24.6 74.0

148 64.5 32.1 96.5

