

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041323\
 Data File : VL040365.D
 Acq On : 13 Apr 2023 18:36
 Operator : SY/MD
 Sample : 02332-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-19-20230412DL

Quant Time: Apr 14 08:35:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

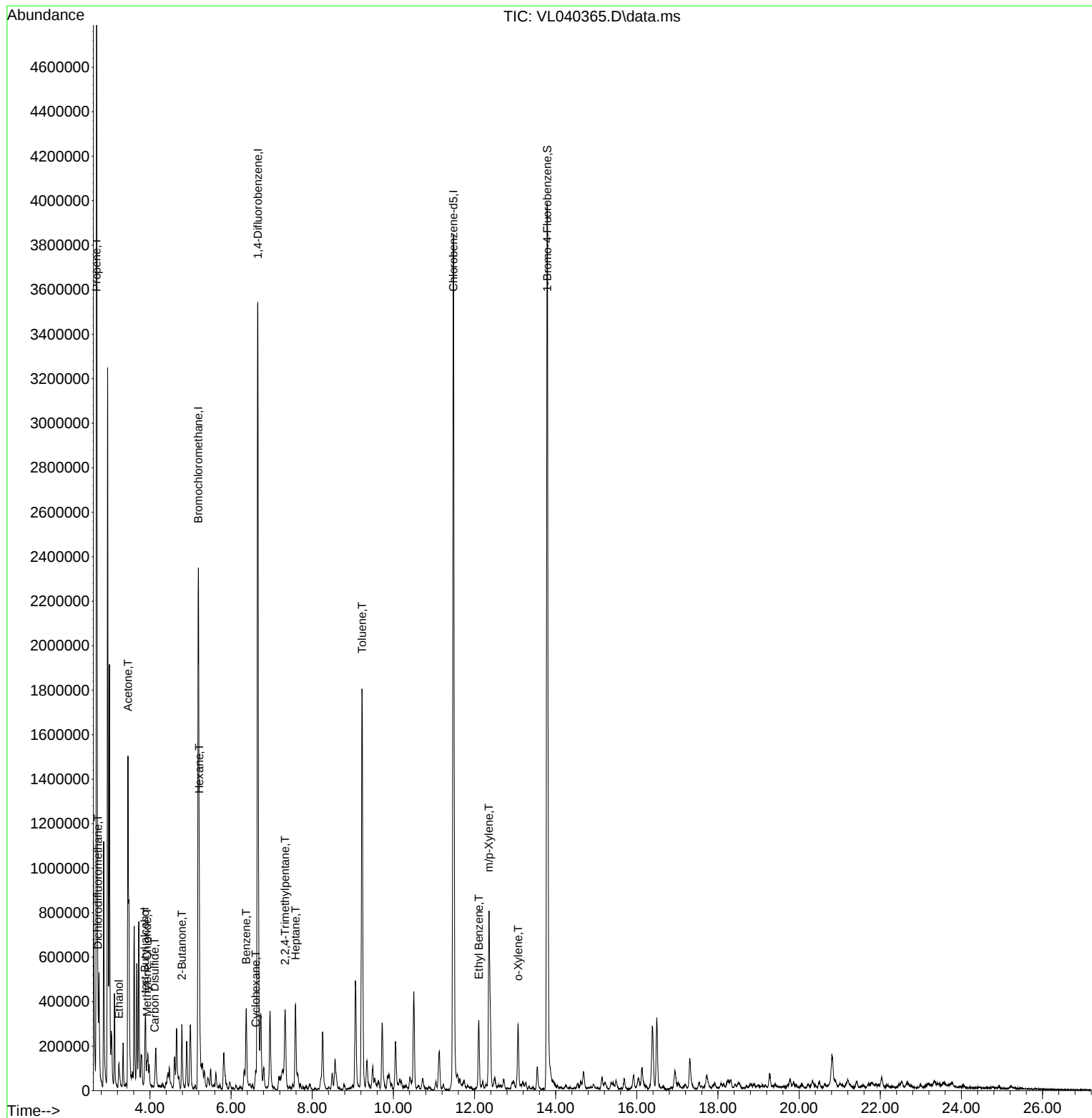
Internal Standards						
1) Bromochloromethane	5.192	49	1009824	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2562334	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2402362	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1987952	10.007	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	28748	0.158	ppbv	99
9) Propene	2.684	41	2222147	42.626	ppbv	92
10) Heptane	7.587	43	147570	1.246	ppbv	97
13) Ethanol	3.237	45	125182	28.765	ppbv	98
15) Acetone	3.459	43	1661694	11.618	ppbv	99
17) tert-Butyl alcohol	3.877	59	138455	1.054	ppbv	95
20) Methylene Chloride	3.928	84	28799	0.504	ppbv	84
26) Hexane	5.214	57	245907	2.424	ppbv #	34
27) Carbon Disulfide	4.118	76	43627	0.332	ppbv #	93
30) Cyclohexane	6.607	84	21000	0.267	ppbv #	65
34) 2-Butanone	4.787	43	319337	2.311	ppbv	99
36) Benzene	6.372	78	286499	1.370	ppbv	96
44) 2,2,4-Trimethylpentane	7.330	57	265157	0.759	ppbv #	51
53) Toluene	9.230	91	887833	4.006	ppbv	99
58) Ethyl Benzene	12.108	91	255236	0.864	ppbv	93
59) m/p-Xylene	12.356	91	773622	2.847	ppbv	96
60) o-Xylene	13.076	91	221815	0.850	ppbv	97

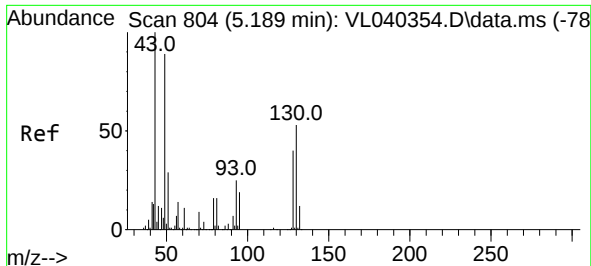
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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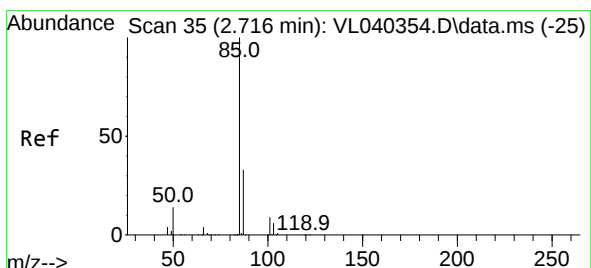
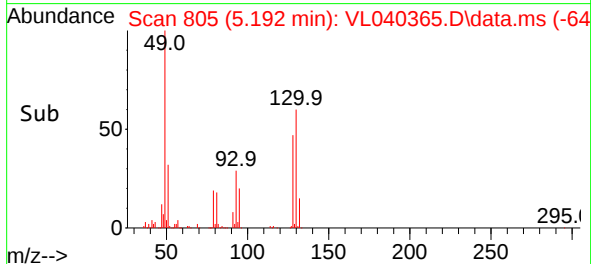
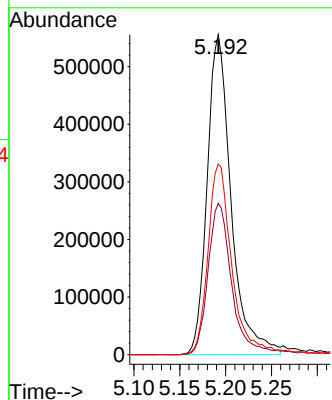
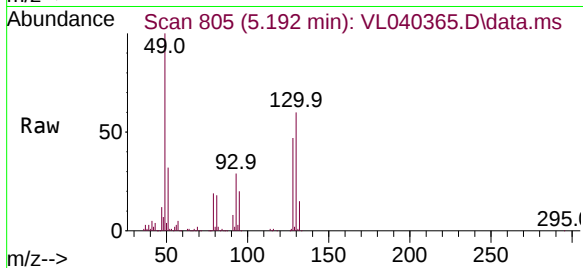




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

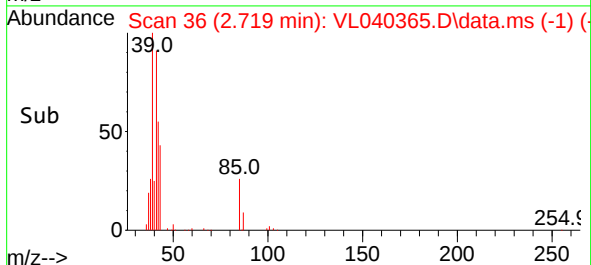
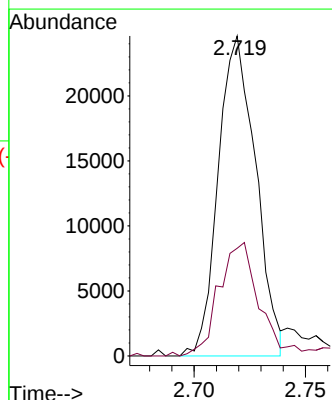
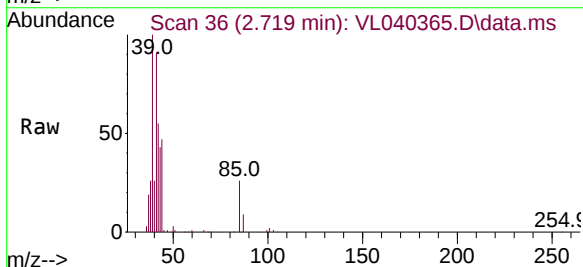
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MSVOA_L
ClientSampleId :
SV-19-20230412DL

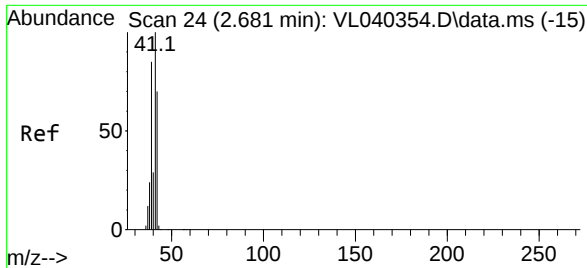
Tgt Ion: 49 Resp: 1009824
Ion Ratio Lower Upper
49 100
128 48.5 23.7 71.1
130 60.8 29.9 89.8



#2
Dichlorodifluoromethane
Concen: 0.158 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.003 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

Tgt Ion: 85 Resp: 28748
Ion Ratio Lower Upper
85 100
87 33.6 26.6 40.0

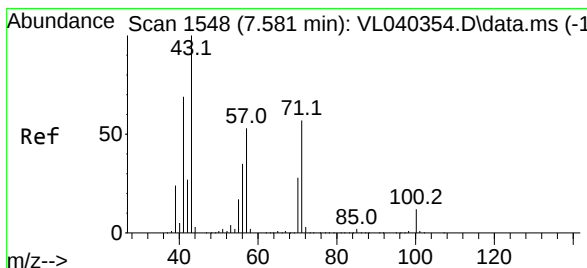
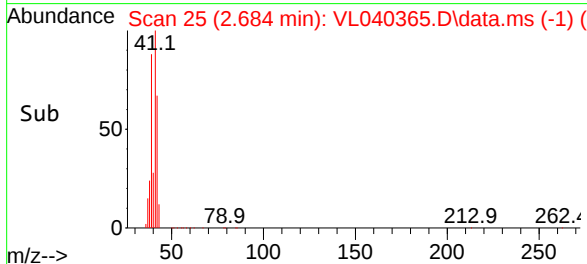
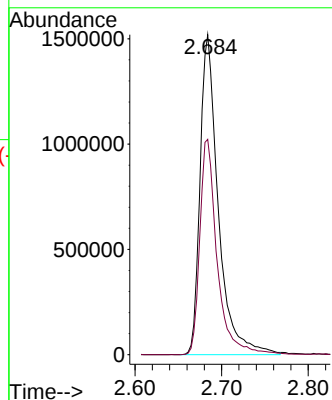
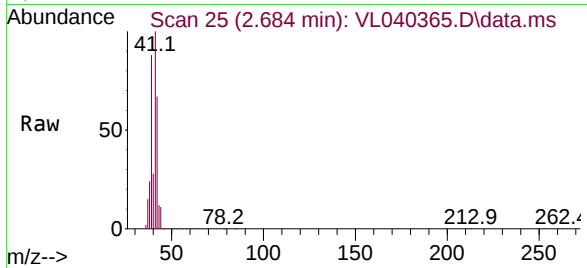




#9
 Propene
 Concen: 42.626 ppbv
 RT: 2.684 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040365.D
 Acq: 13 Apr 2023 18:36

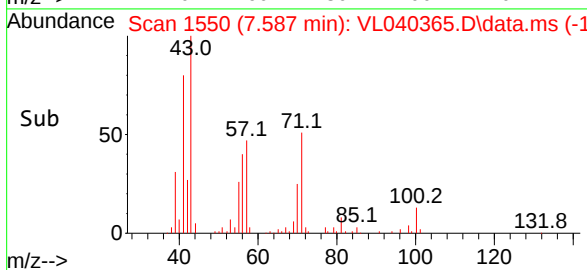
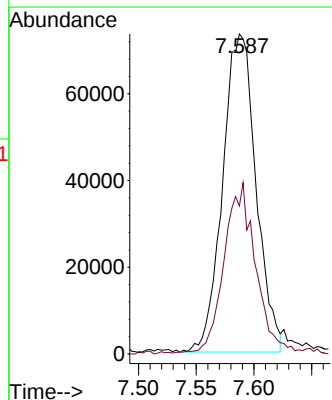
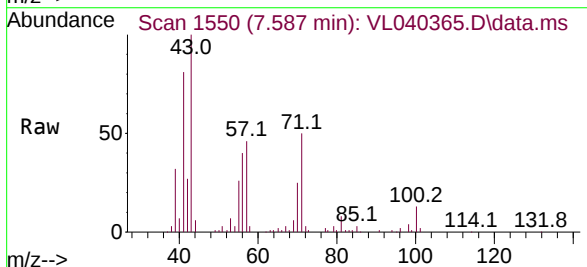
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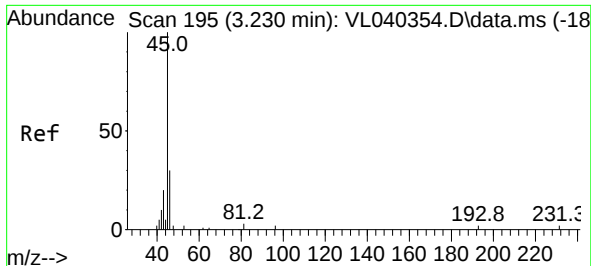
Tgt Ion: 41 Resp: 2222147
 Ion Ratio Lower Upper
 41 100
 42 64.2 56.5 84.7



#10
 Heptane
 Concen: 1.246 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.007 min
 Lab File: VL040365.D
 Acq: 13 Apr 2023 18:36

Tgt Ion: 43 Resp: 147570
 Ion Ratio Lower Upper
 43 100
 57 50.4 42.2 63.4

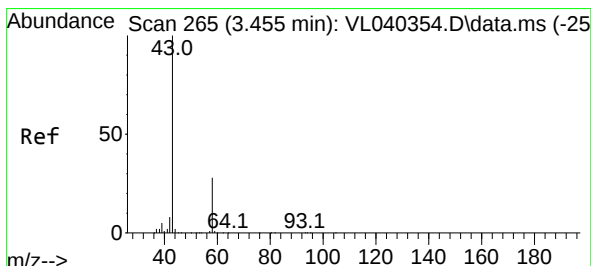
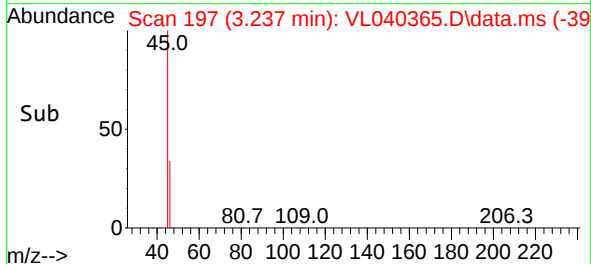
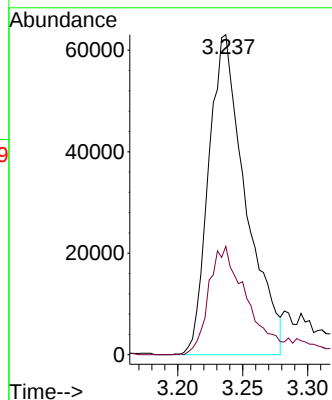
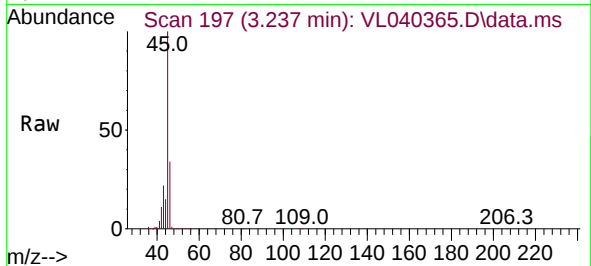




#13
Ethanol
Concen: 28.765 ppbv
RT: 3.237 min Scan# 196
Delta R.T. 0.007 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

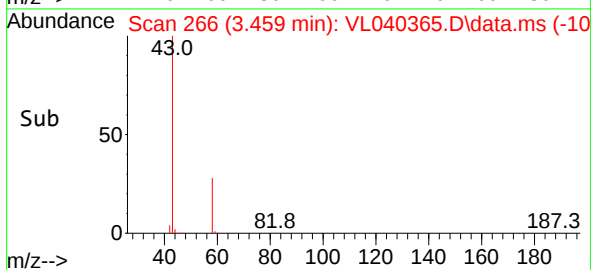
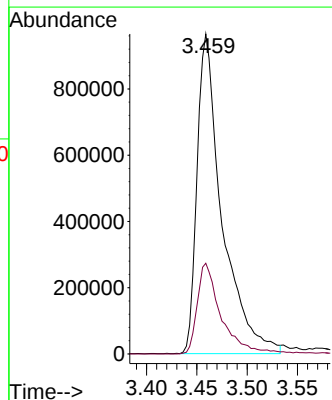
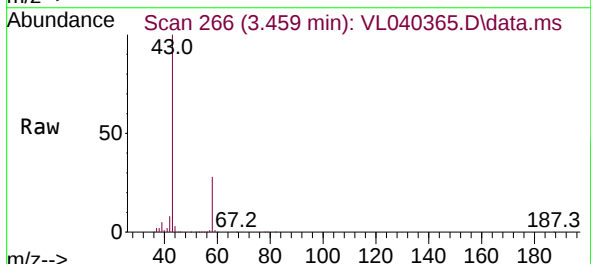
Instrument :
MSVOA_L
ClientSampleId :
SV-19-20230412DL

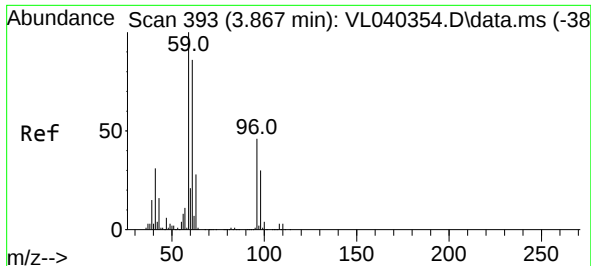
Tgt Ion: 45 Resp: 125182
Ion Ratio Lower Upper
45 100
46 39.5 15.3 61.3



#15
Acetone
Concen: 11.618 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.003 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

Tgt Ion: 43 Resp: 1661694
Ion Ratio Lower Upper
43 100
58 28.1 22.2 33.2





#17

tert-Butyl alcohol

Concen: 1.054 ppbv

RT: 3.877 min Scan# 393

Delta R.T. 0.010 min

Lab File: VL040365.D

Acq: 13 Apr 2023 18:36

Instrument :

MSVOA_L

ClientSampleId :

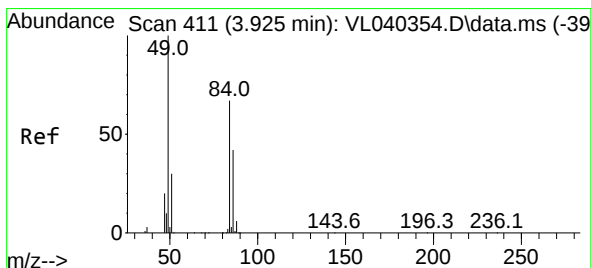
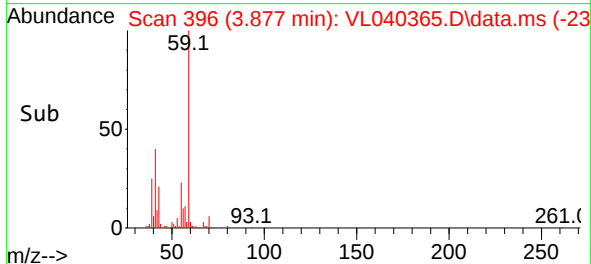
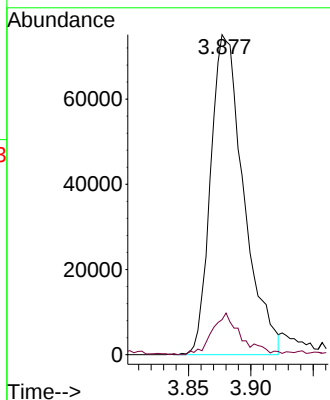
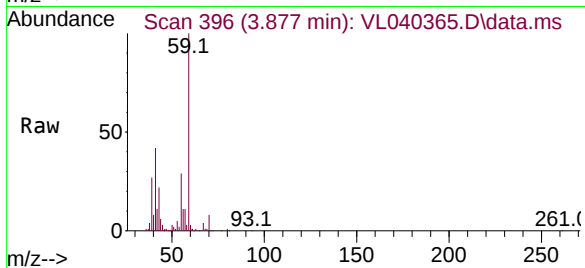
SV-19-20230412DL

Tgt Ion: 59 Resp: 138455

Ion Ratio Lower Upper

59 100

57 12.5 8.5 12.7



#20

Methylene Chloride

Concen: 0.504 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.003 min

Lab File: VL040365.D

Acq: 13 Apr 2023 18:36

Tgt Ion: 84 Resp: 28799

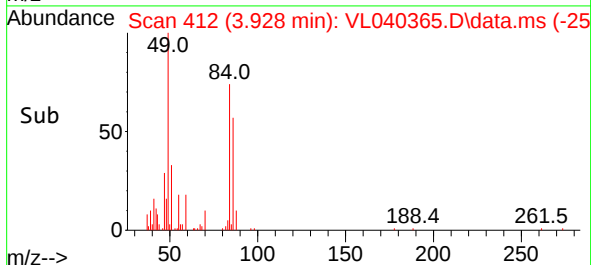
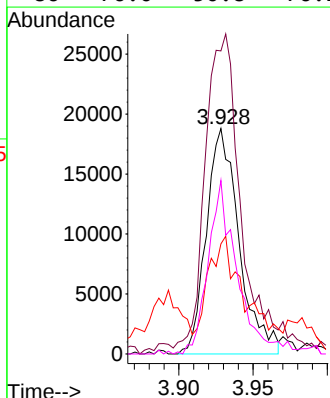
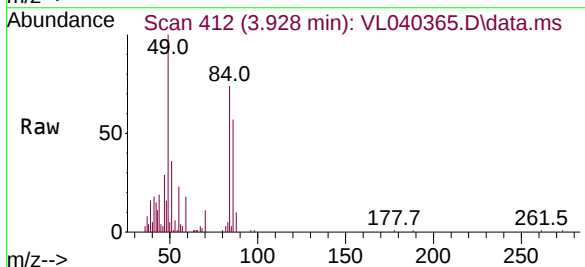
Ion Ratio Lower Upper

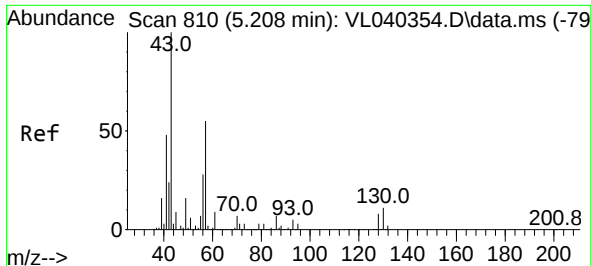
84 100

49 129.2 120.1 180.1

51 37.5 36.3 54.5

86 76.0 50.8 76.2

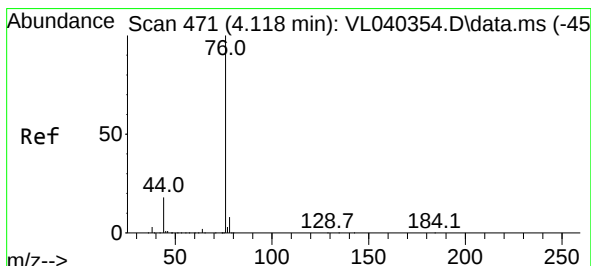
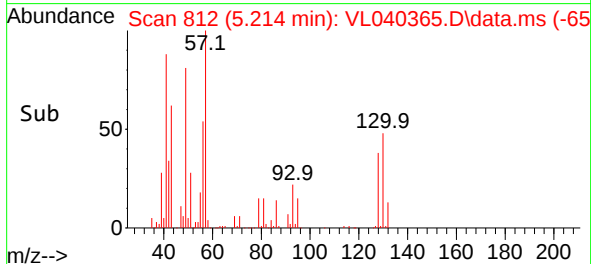
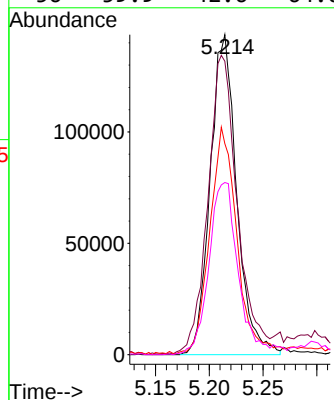
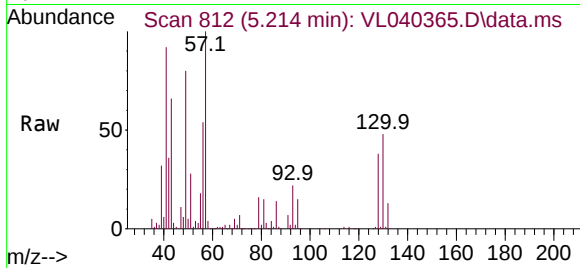




#26
Hexane
Concen: 2.424 ppbv
RT: 5.214 min Scan# 810
Delta R.T. 0.007 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

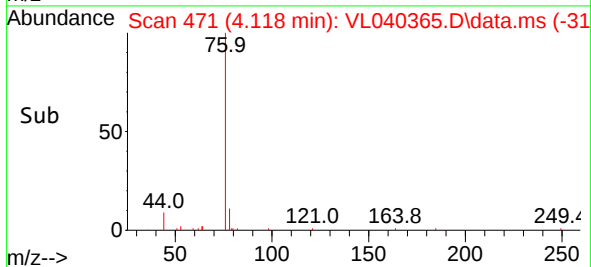
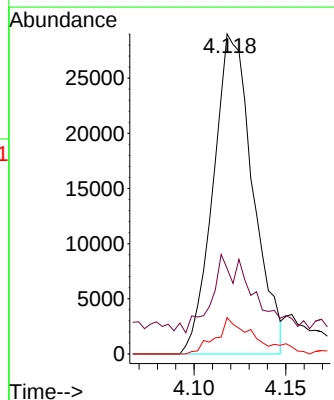
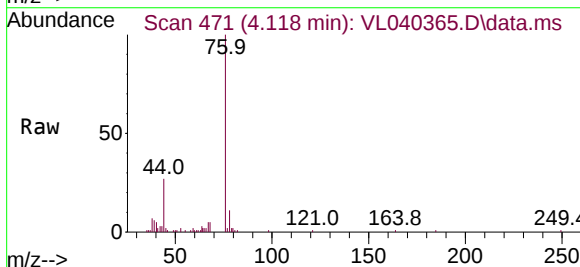
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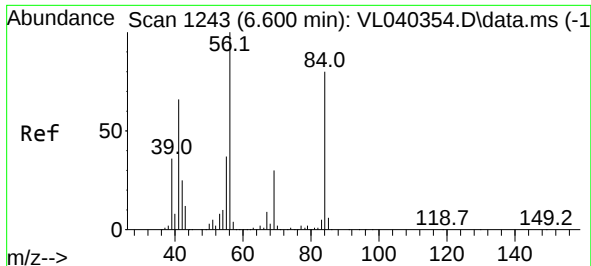
Tgt Ion: 57 Resp: 245907
Ion Ratio Lower Upper
57 100
41 106.2 74.8 112.2
43 72.0 192.7 289.1#
56 59.9 42.6 64.0



#27
Carbon Disulfide
Concen: 0.332 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

Tgt Ion: 76 Resp: 43627
Ion Ratio Lower Upper
76 100
44 21.7 14.7 22.1
78 12.1 7.7 11.5#

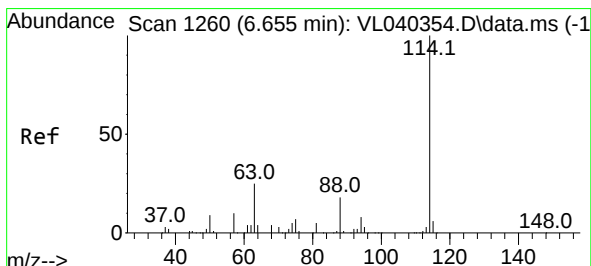
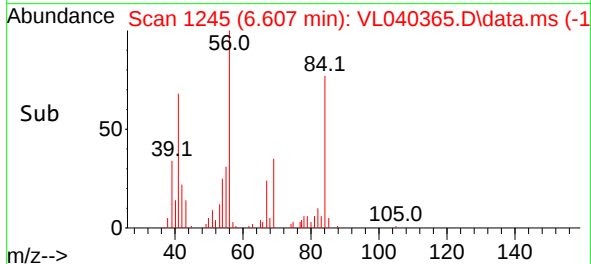
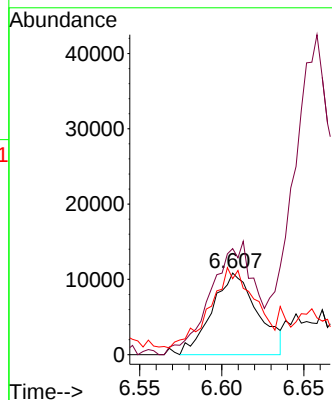
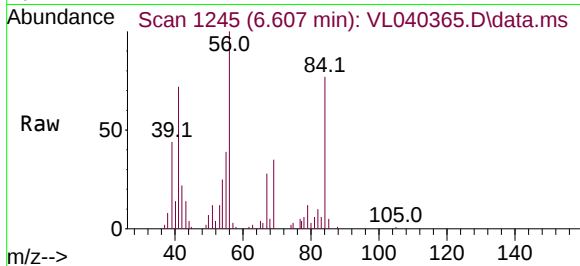




#30
Cyclohexane
Concen: 0.267 ppbv
RT: 6.607 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

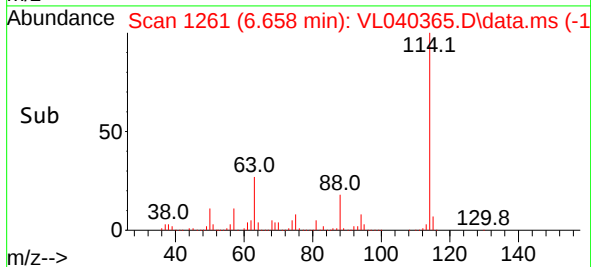
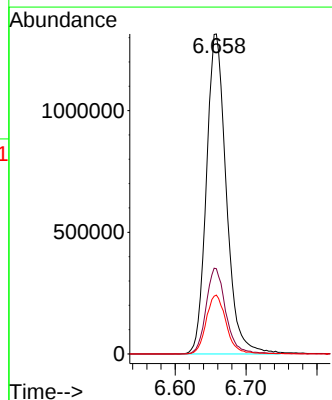
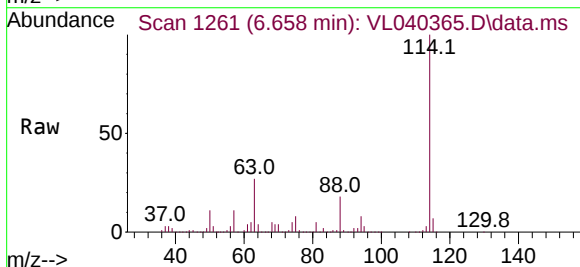
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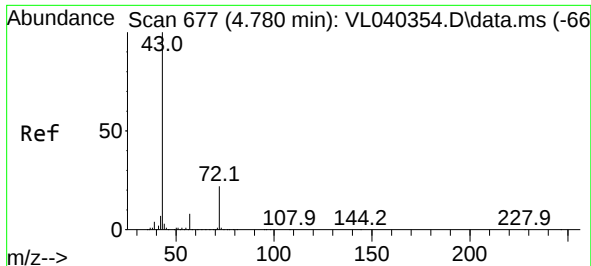
Tgt Ion: 84 Resp: 21000
Ion Ratio Lower Upper
84 100
56 133.0 107.0 160.6
41 164.4 66.7 100.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.003 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

Tgt Ion: 114 Resp: 2562334
Ion Ratio Lower Upper
114 100
63 26.7 21.4 32.0
88 18.7 14.6 22.0

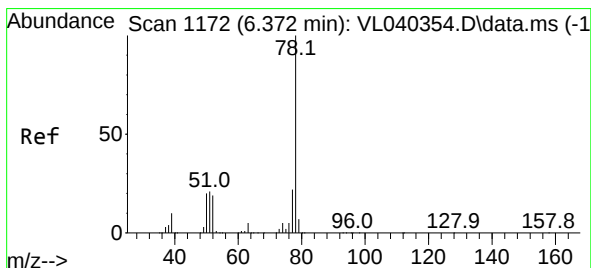
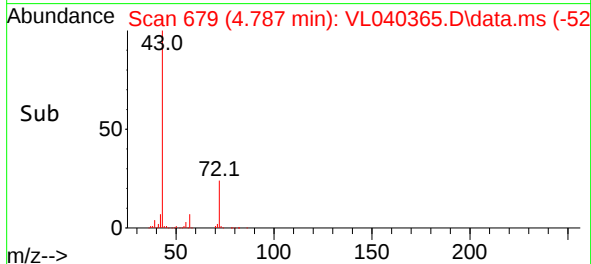
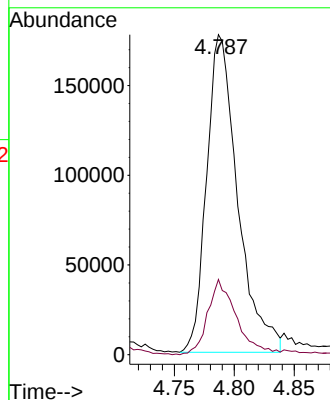
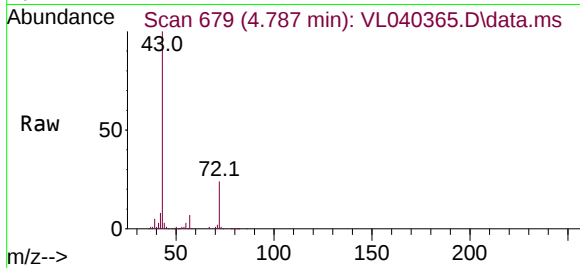




#34
2-Butanone
Concen: 2.311 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

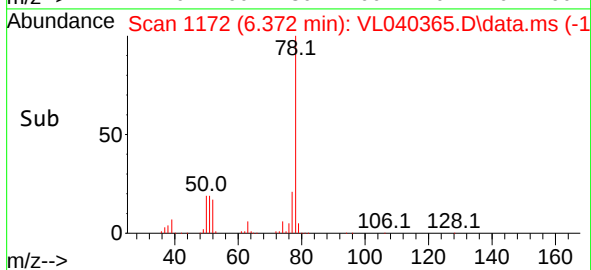
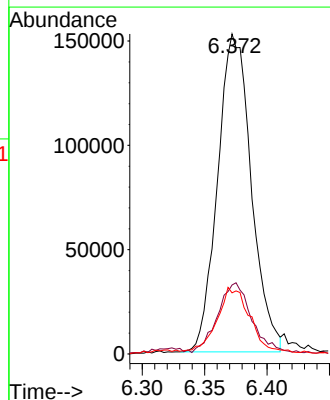
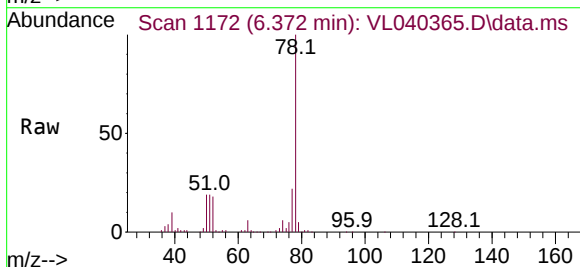
Instrument :
MSVOA_L
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SV-19-20230412DL

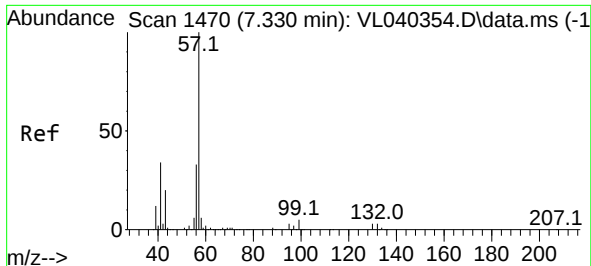
Tgt Ion: 43 Resp: 319337
Ion Ratio Lower Upper
43 100
72 23.5 18.4 27.6



#36
Benzene
Concen: 1.370 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

Tgt Ion: 78 Resp: 286499
Ion Ratio Lower Upper
78 100
77 20.0 17.8 26.8
50 18.3 15.6 23.4





#44

2,2,4-Trimethylpentane

Concen: 0.759 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VL040365.D

Acq: 13 Apr 2023 18:36

Instrument :

MSVOA_1

ClientSampleId :

SV-19-20230412DL

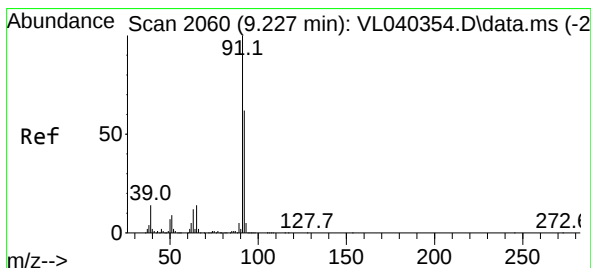
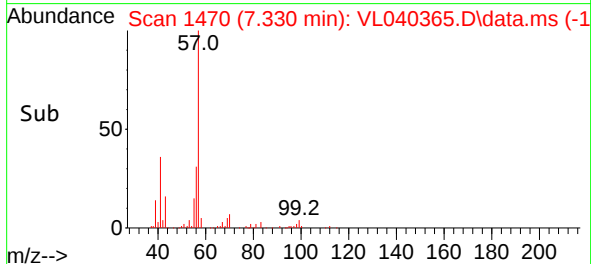
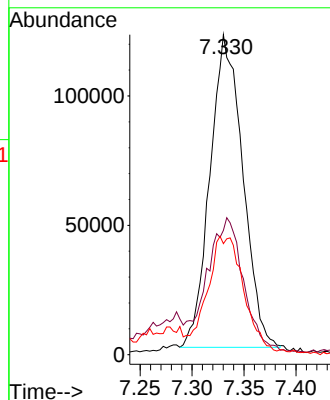
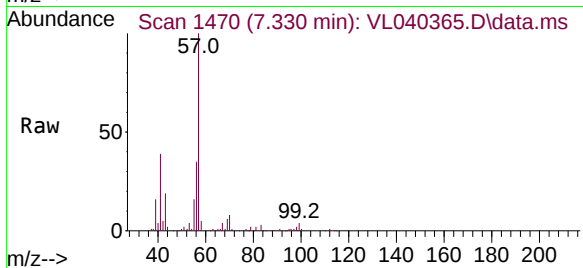
Tgt Ion: 57 Resp: 265157

Ion Ratio Lower Upper

57 100

41 64.3 26.9 40.3#

56 55.1 25.1 37.7#



#53

Toluene

Concen: 4.006 ppbv

RT: 9.230 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VL040365.D

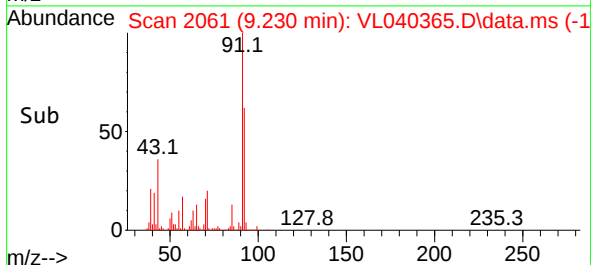
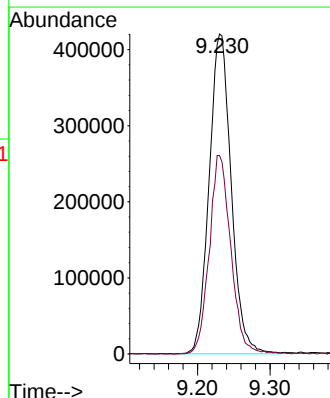
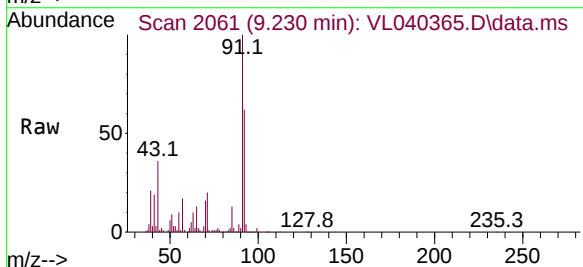
Acq: 13 Apr 2023 18:36

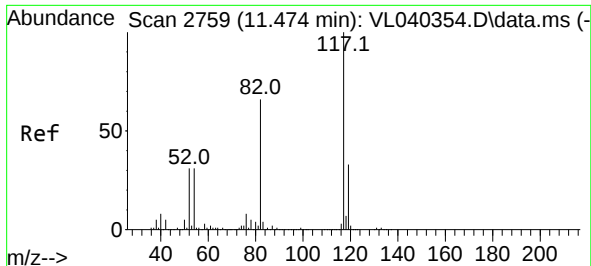
Tgt Ion: 91 Resp: 887833

Ion Ratio Lower Upper

91 100

92 60.7 48.9 73.3

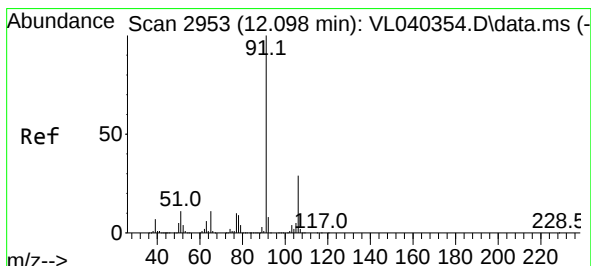
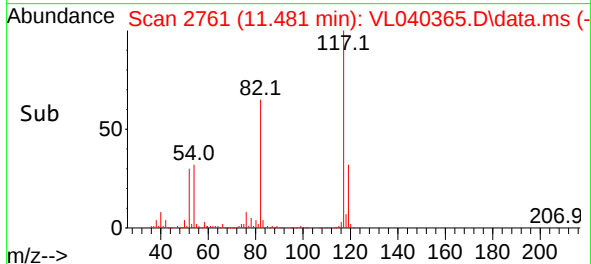
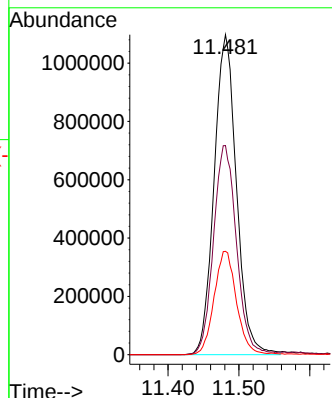
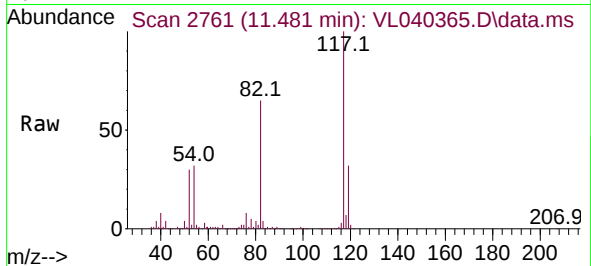




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

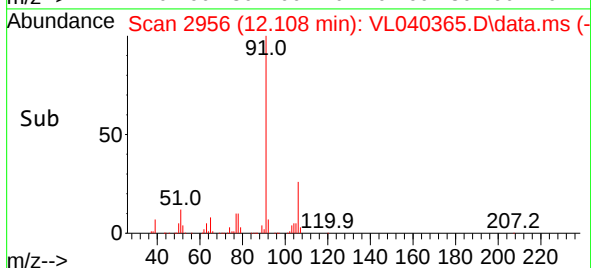
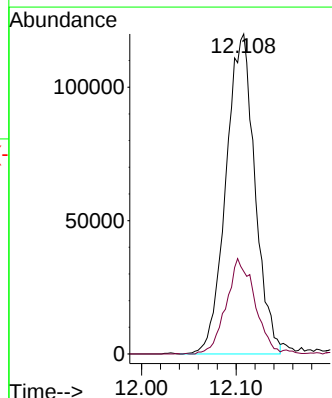
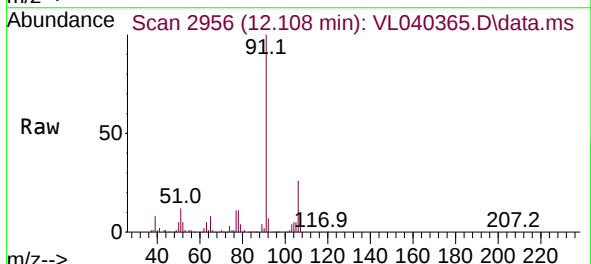
Instrument :
MSVOA_L
ClientSampleId :
SV-19-20230412DL

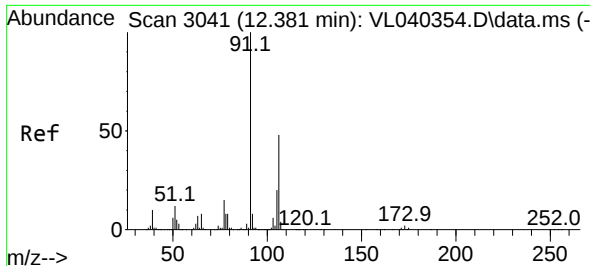
Tgt Ion:117 Resp: 2402362
Ion Ratio Lower Upper
117 100
82 67.6 52.5 78.7
119 33.0 24.3 36.5



#58
Ethyl Benzene
Concen: 0.864 ppbv
RT: 12.108 min Scan# 2956
Delta R.T. 0.010 min
Lab File: VL040365.D
Acq: 13 Apr 2023 18:36

Tgt Ion: 91 Resp: 255236
Ion Ratio Lower Upper
91 100
106 25.8 23.5 35.3





#59

m/p-Xylene

Concen: 2.847 ppbv

RT: 12.356 min Scan# 3041

Delta R.T. -0.026 min

Lab File: VL040365.D

Acq: 13 Apr 2023 18:36

Instrument :

MSVOA_L

ClientSampleId :

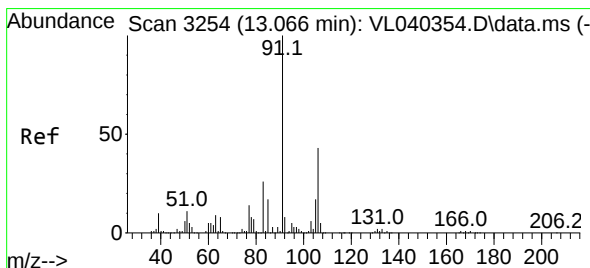
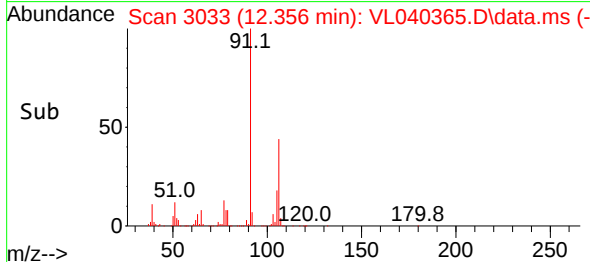
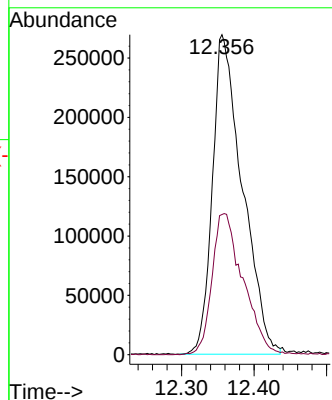
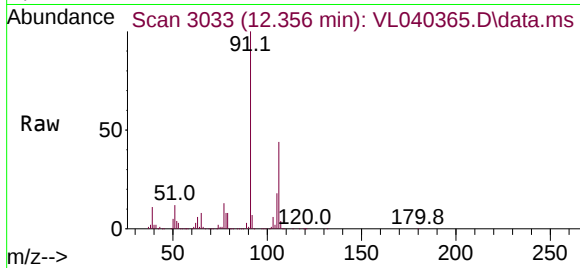
SV-19-20230412DL

Tgt Ion: 91 Resp: 773622

Ion Ratio Lower Upper

91 100

106 46.0 34.7 52.1



#60

o-Xylene

Concen: 0.850 ppbv

RT: 13.076 min Scan# 3257

Delta R.T. 0.010 min

Lab File: VL040365.D

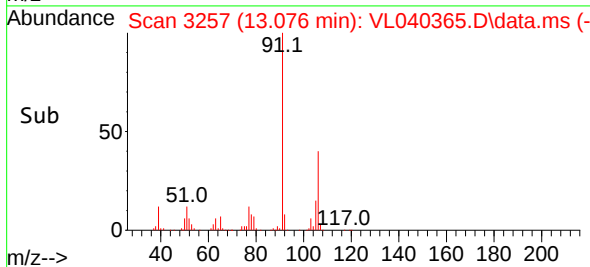
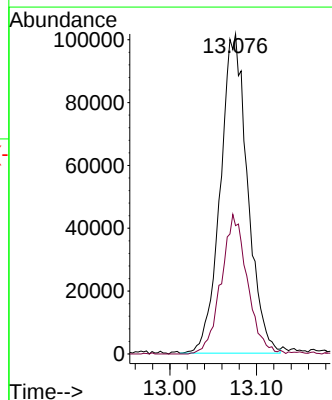
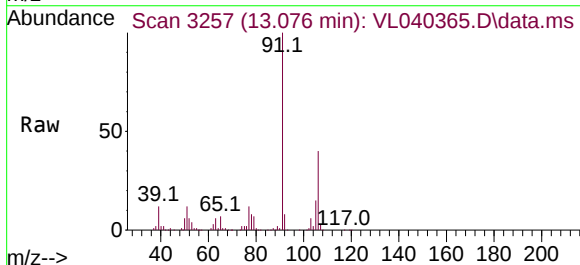
Acq: 13 Apr 2023 18:36

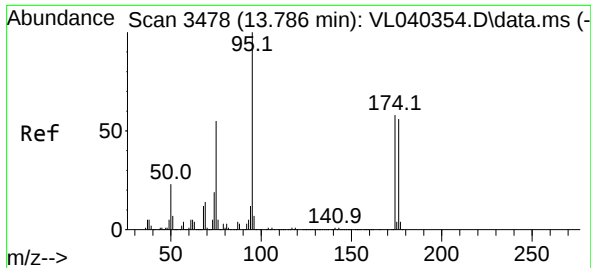
Tgt Ion: 91 Resp: 221815

Ion Ratio Lower Upper

91 100

106 42.0 21.9 65.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.007 ppbv
 RT: 13.793 min Scan# 34
 Delta R.T. 0.007 min
 Lab File: VL040365.D
 Acq: 13 Apr 2023 18:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-19-20230412DL

Tgt Ion: 95 Resp: 1987952

Ion	Ratio	Lower	Upper
95	100		
174	60.4	47.2	70.8
175	4.1	3.5	5.3

