

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
 Data File : VL041141.D
 Acq On : 5 Apr 2024 1:36
 Operator : SY/MD
 Sample : P1986-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Apr 05 03:51:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 05 03:20:09 2024
 Response via : Initial Calibration

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

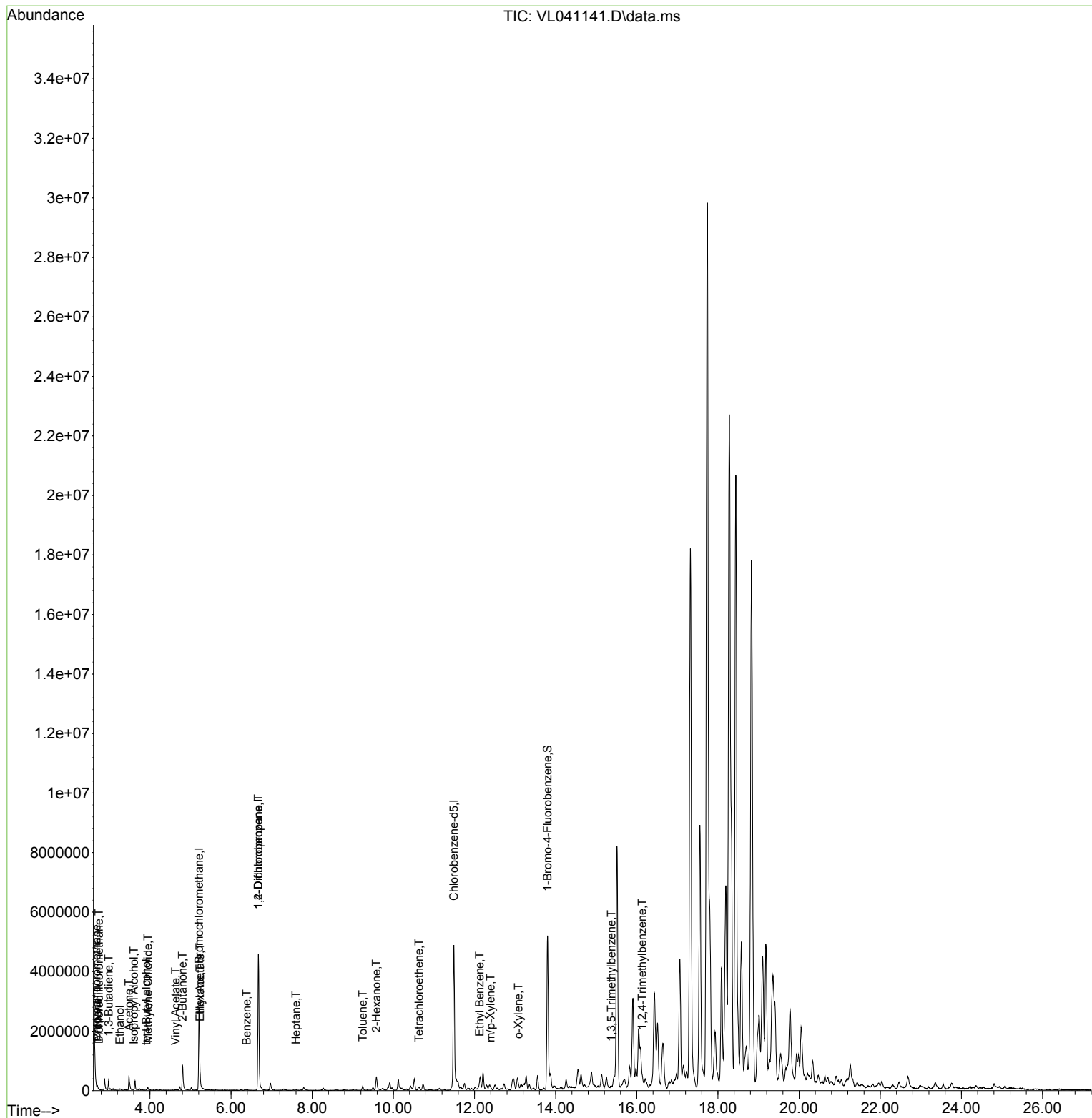
Internal Standards						
1) Bromochloromethane	5.211	49	1317714	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	3568468	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.490	117	3317902	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	2640322	9.856	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	24501	0.108	ppbv	90
3) Chlorodifluoromethane	2.684	51	11655	0.057	ppbv #	89
9) Propene	2.703	41	36341	0.563	ppbv	99
10) Heptane	7.600	43	8383	0.055	ppbv #	41
13) Ethanol	3.259	45	18567	1.235	ppbv #	38
15) Acetone	3.484	43	506203	3.548	ppbv #	75
16) 1,3-Butadiene	2.980	39	72800	1.039	ppbv #	20
17) tert-Butyl alcohol	3.912	59	10697	0.083	ppbv #	80
19) Isopropyl Alcohol	3.607	45	23019	0.263	ppbv #	92
20) Methylene Chloride	3.951	84	14857	0.252	ppbv	94
23) Vinyl Acetate	4.632	43	12726	0.086	ppbv #	69
25) Ethyl Acetate	5.233	43	51340	0.192	ppbv #	83
26) Hexane	5.230	57	72799	0.605	ppbv #	36
34) 2-Butanone	4.806	43	1003277	6.509	ppbv	99
36) Benzene	6.388	78	12950	0.049	ppbv #	89
39) 1,2-Dichloropropane	6.674	63	873437	8.406	ppbv #	23
51) 2-Hexanone	9.581	43	421487	2.299	ppbv #	100
52) Tetrachloroethene	10.635	164	6671	0.079	ppbv #	90
53) Toluene	9.246	91	104220	0.376	ppbv	98
58) Ethyl Benzene	12.124	91	19123	0.052	ppbv #	75
59) m/p-Xylene	12.397	91	28715	0.087	ppbv #	32
60) o-Xylene	13.082	91	57672	0.184	ppbv #	65
73) 1,3,5-Trimethylbenzene	15.371	105	16371	0.053	ppbv #	68
74) 1,2,4-Trimethylbenzene	16.130	105	175922	0.495	ppbv #	70

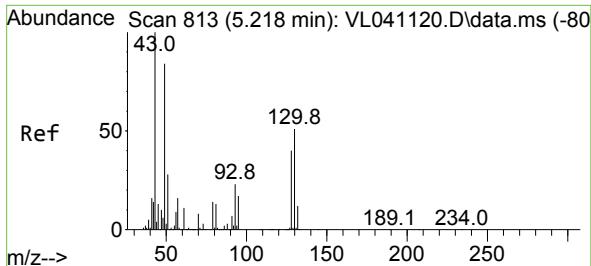
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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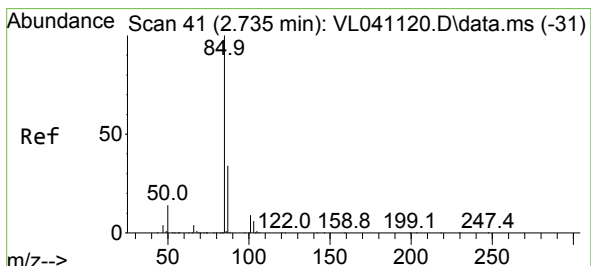
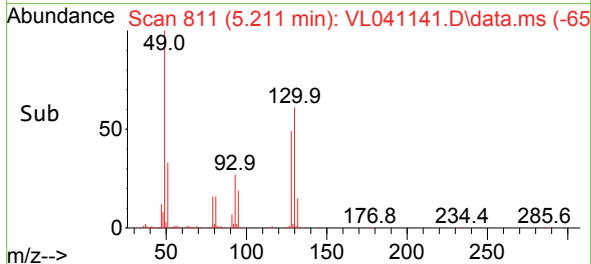
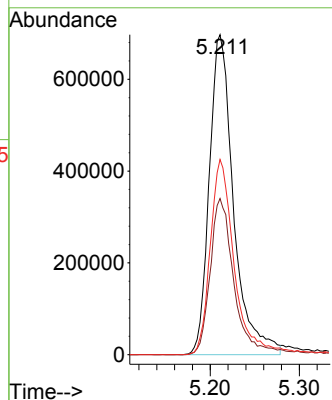
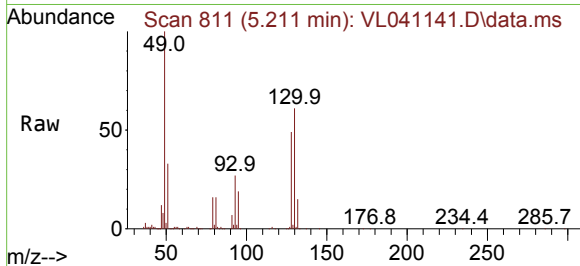




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

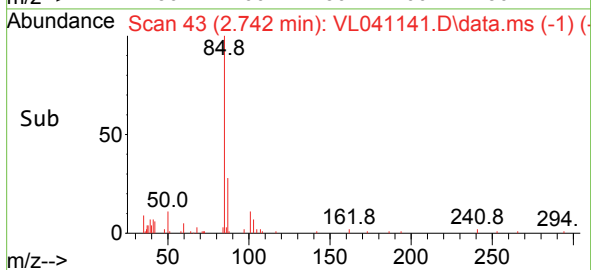
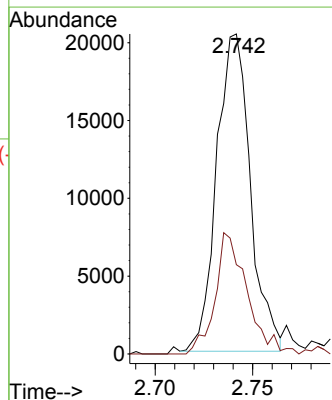
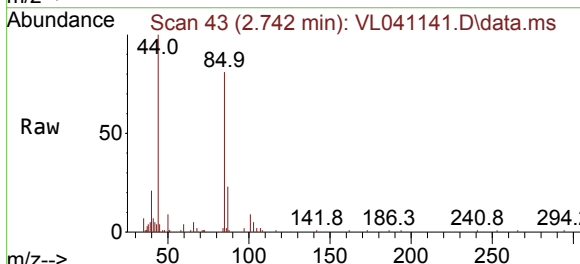
Instrument :
MSVOA_L
ClientSampleId :
SV1

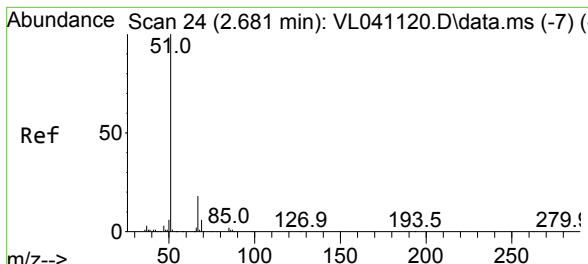
Tgt Ion: 49 Resp: 1317714
Ion Ratio Lower Upper
49 100
128 49.3 23.8 71.5
130 62.3 30.3 90.9



#2
Dichlorodifluoromethane
Concen: 0.108 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 85 Resp: 24501
Ion Ratio Lower Upper
85 100
87 29.4 28.1 42.1

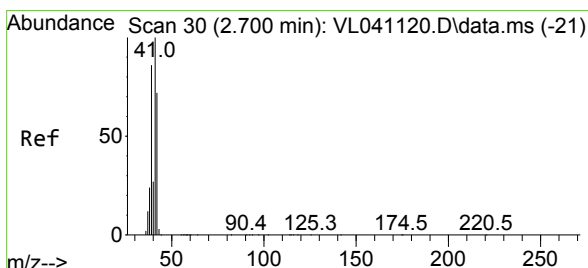
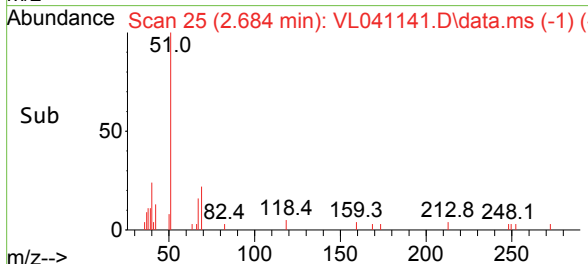
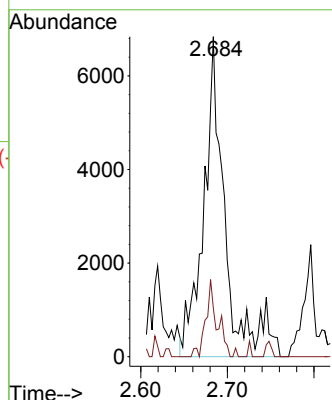
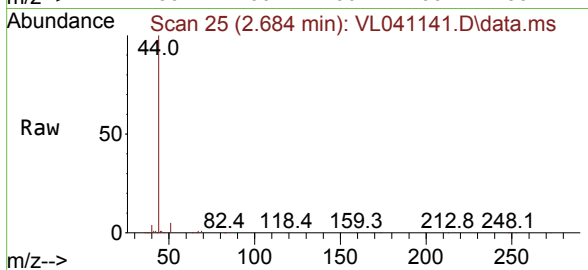




#3
Chlorodifluoromethane
Concen: 0.057 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

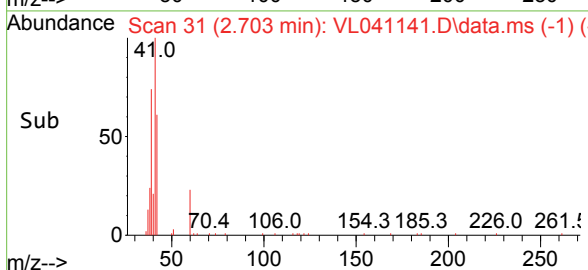
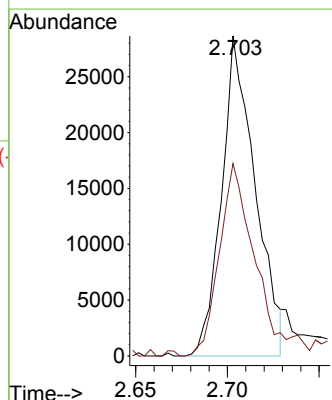
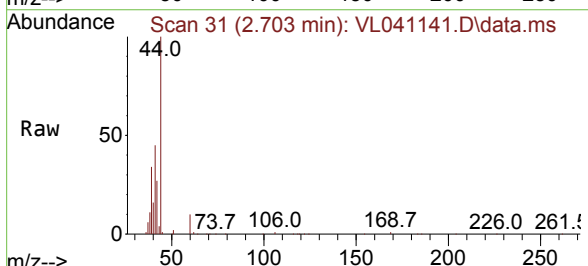
Instrument :
MSVOA_L
ClientSampleId :
SV1

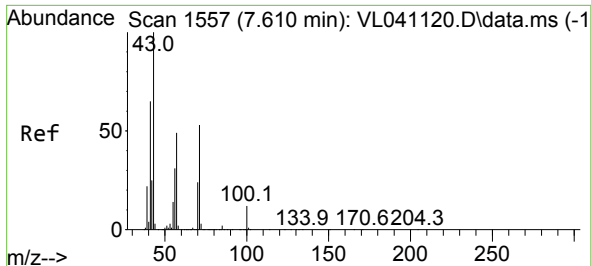
Tgt Ion: 51 Resp: 11655
Ion Ratio Lower Upper
51 100
67 13.2 14.5 21.7#



#9
Propene
Concen: 0.563 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 41 Resp: 36341
Ion Ratio Lower Upper
41 100
42 68.7 55.9 83.9

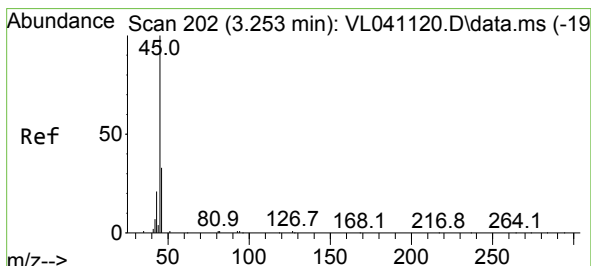
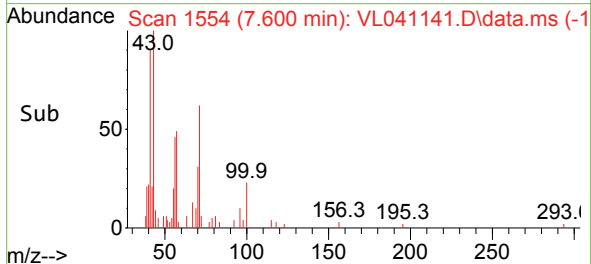
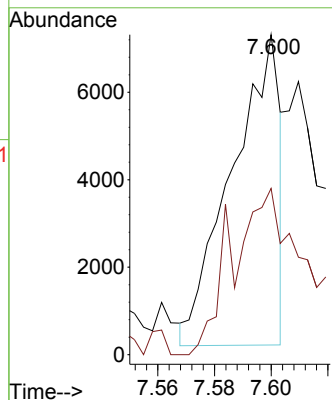
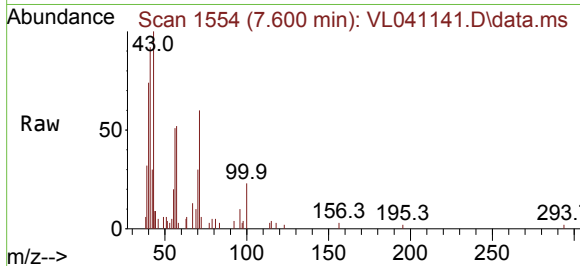




#10
 Heptane
 Concen: 0.055 ppbv
 RT: 7.600 min Scan# 11
 Delta R.T. -0.010 min
 Lab File: VL041141.D
 Acq: 5 Apr 2024 1:36

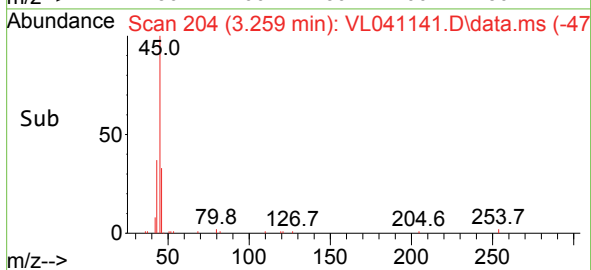
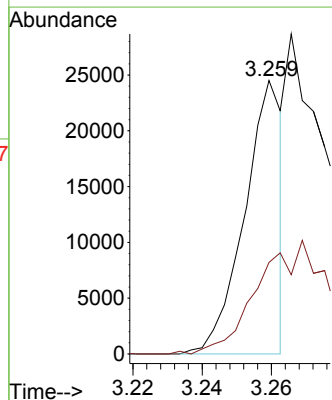
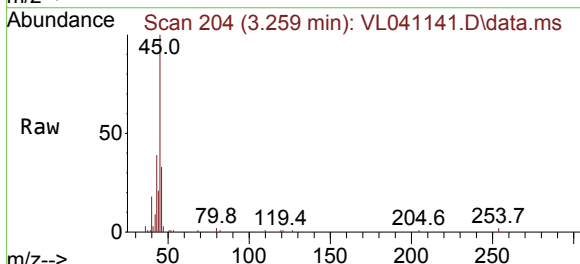
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

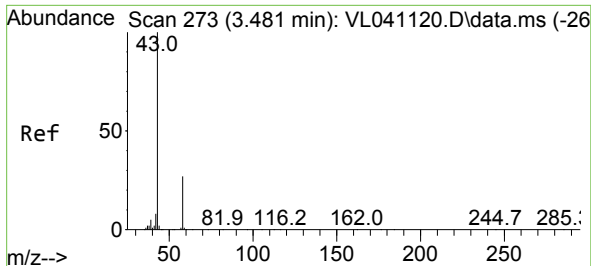
Tgt Ion: 43 Resp: 8383
 Ion Ratio Lower Upper
 43 100
 57 92.3 41.0 61.6#



#13
 Ethanol
 Concen: 1.235 ppbv
 RT: 3.259 min Scan# 204
 Delta R.T. 0.006 min
 Lab File: VL041141.D
 Acq: 5 Apr 2024 1:36

Tgt Ion: 45 Resp: 18567
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.6 58.2#





#15

Acetone

Concen: 3.548 ppbv

RT: 3.484 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

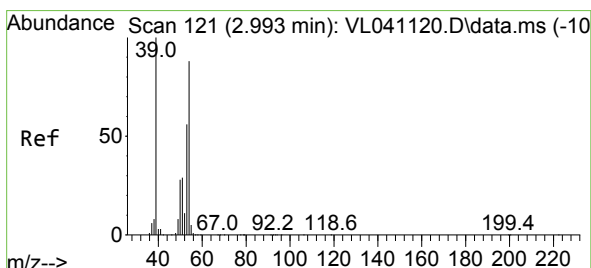
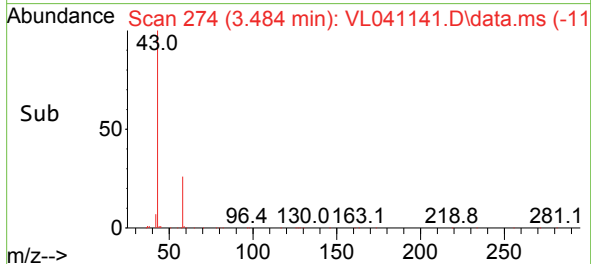
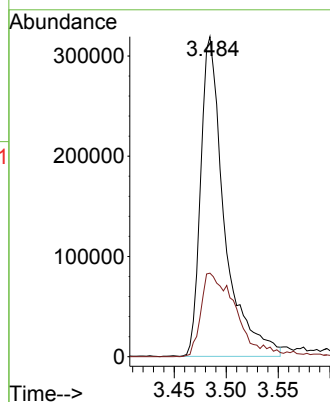
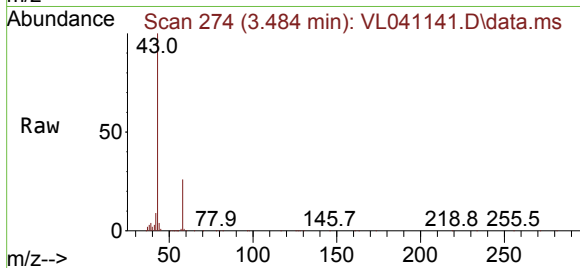
SV1

Tgt Ion: 43 Resp: 506203

Ion Ratio Lower Upper

43 100

58 39.9 21.7 32.5#



#16

1,3-Butadiene

Concen: 1.039 ppbv

RT: 2.980 min Scan# 117

Delta R.T. -0.013 min

Lab File: VL041141.D

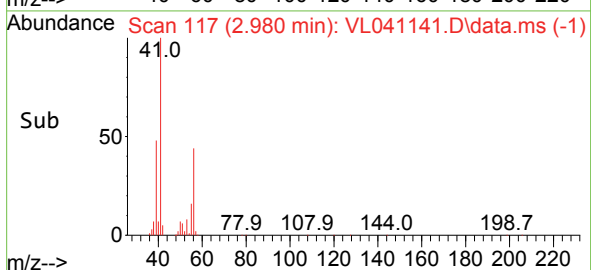
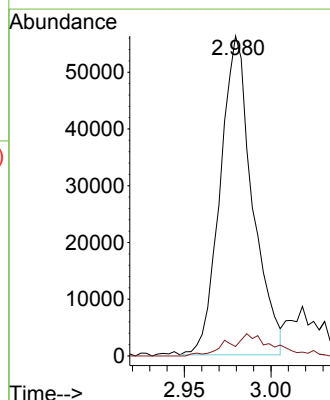
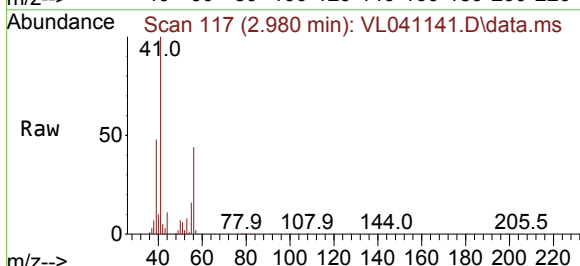
Acq: 5 Apr 2024 1:36

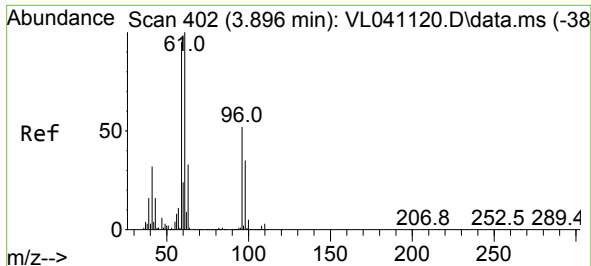
Tgt Ion: 39 Resp: 72800

Ion Ratio Lower Upper

39 100

54 9.8 64.0 96.0#





#17

tert-Butyl alcohol

Concen: 0.083 ppbv

RT: 3.912 min Scan# 402

Delta R.T. 0.016 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

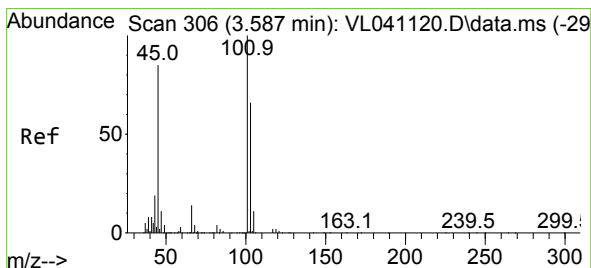
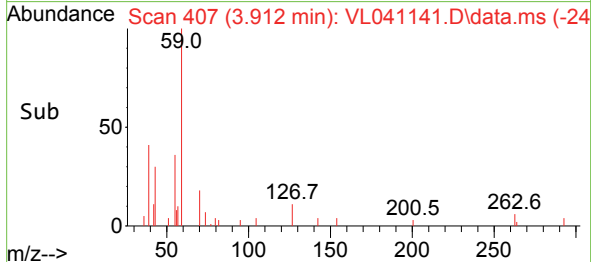
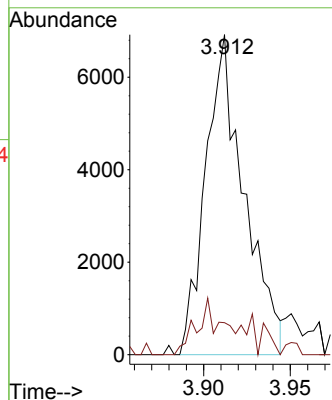
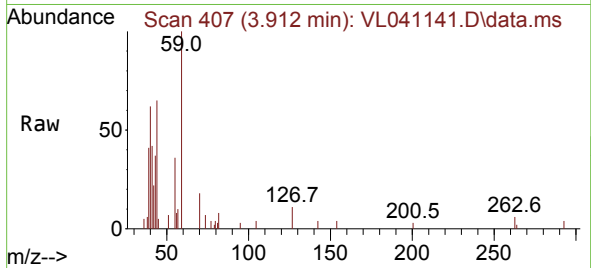
SV1

Tgt Ion: 59 Resp: 10697

Ion Ratio Lower Upper

59 100

57 18.8 9.0 13.6#



#19

Isopropyl Alcohol

Concen: 0.263 ppbv

RT: 3.607 min Scan# 312

Delta R.T. 0.019 min

Lab File: VL041141.D

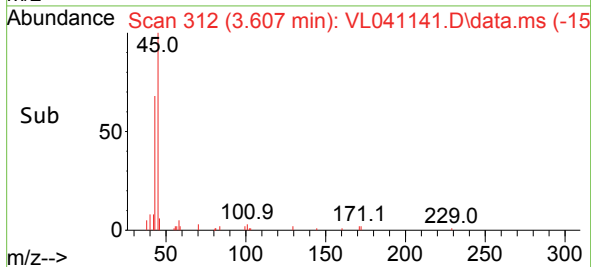
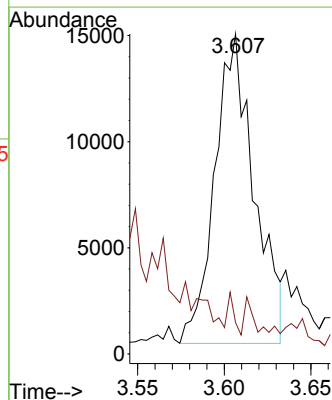
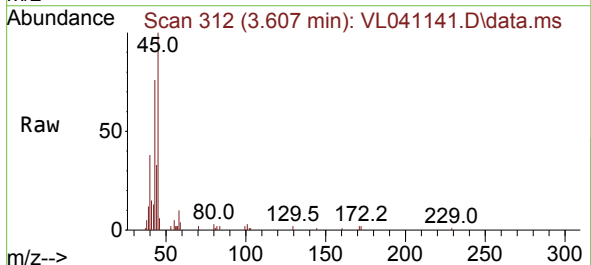
Acq: 5 Apr 2024 1:36

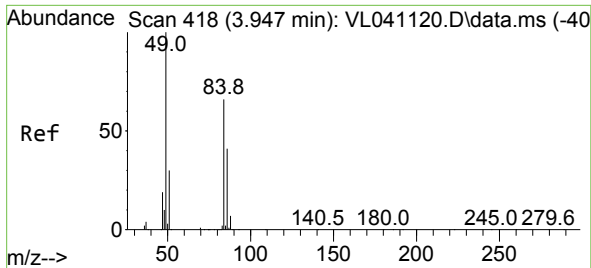
Tgt Ion: 45 Resp: 23019

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.4#



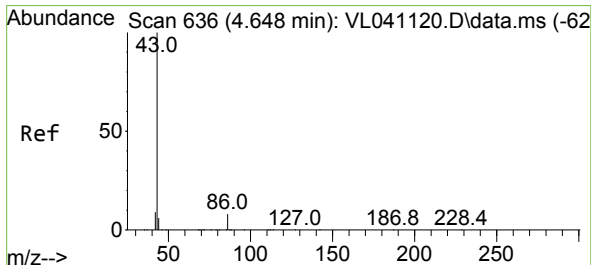
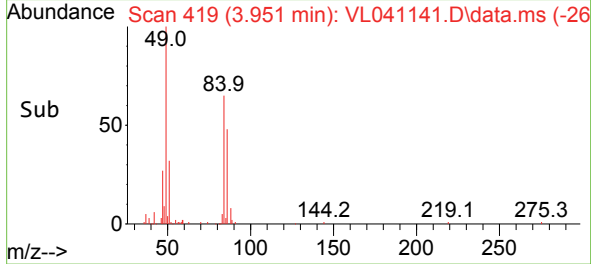
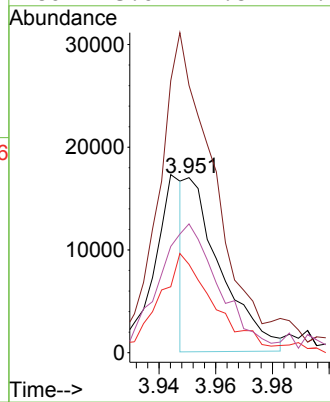
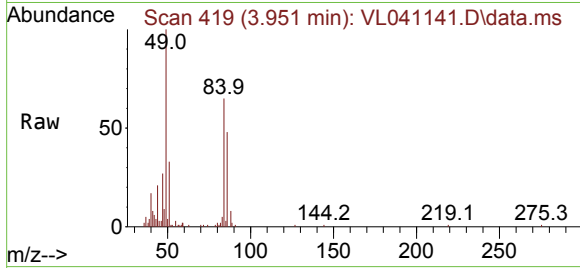


#20
Methylene Chloride
Concen: 0.252 ppbv
RT: 3.951 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 14857

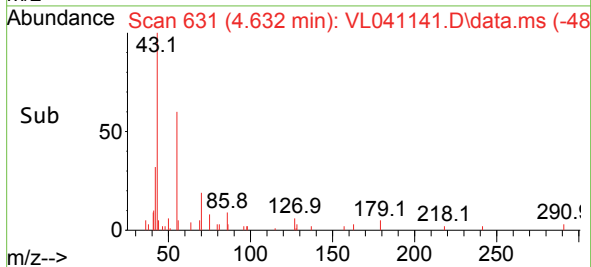
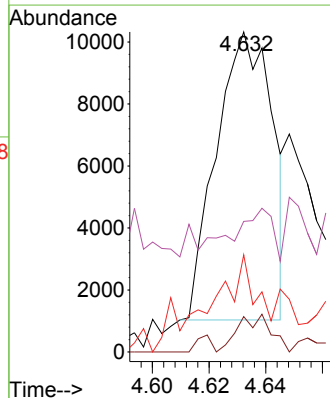
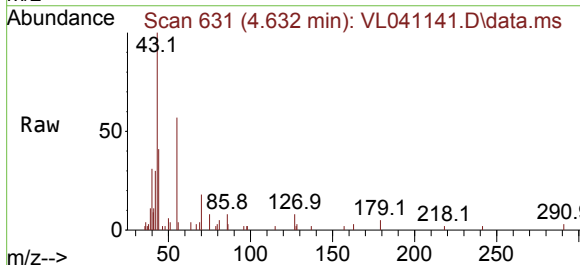
Ion	Ratio	Lower	Upper
84	100		
49	143.6	117.0	175.6
51	49.3	34.9	52.3
86	73.6	49.8	74.6

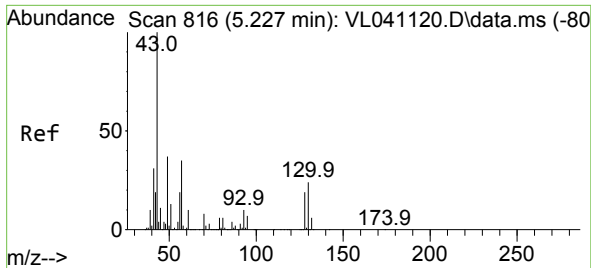


#23
Vinyl Acetate
Concen: 0.086 ppbv
RT: 4.632 min Scan# 631
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 43 Resp: 12726

Ion	Ratio	Lower	Upper
43	100		
86	12.3	5.4	8.2#
42	26.4	8.0	12.0#
44	13.9	4.2	6.2#

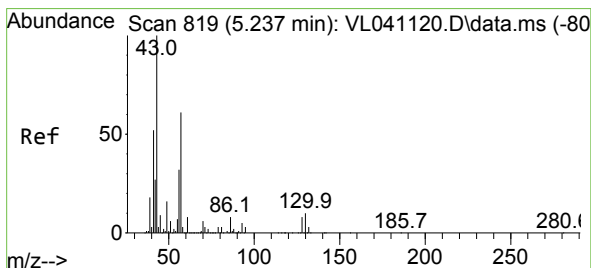
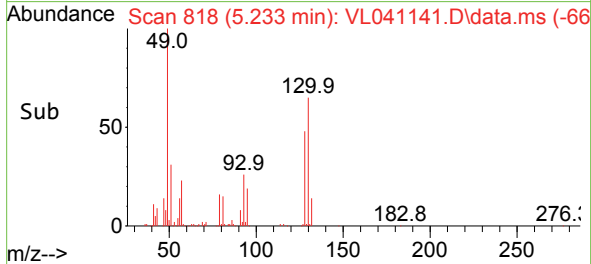
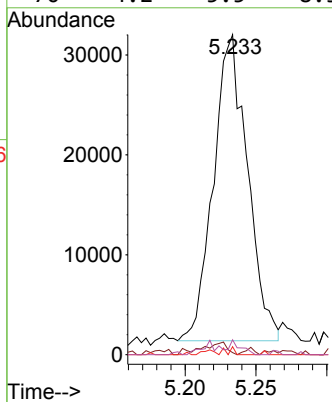
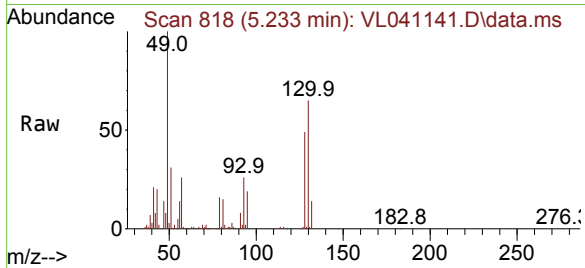




#25
Ethyl Acetate
Concen: 0.192 ppbv
RT: 5.233 min Scan# 816
Delta R.T. 0.006 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

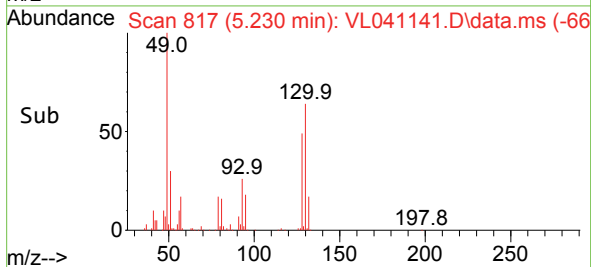
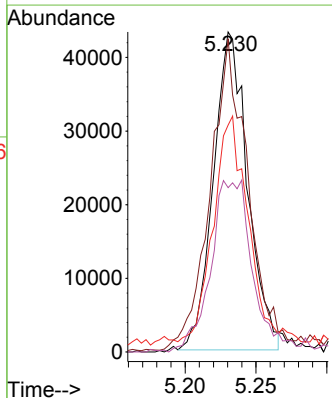
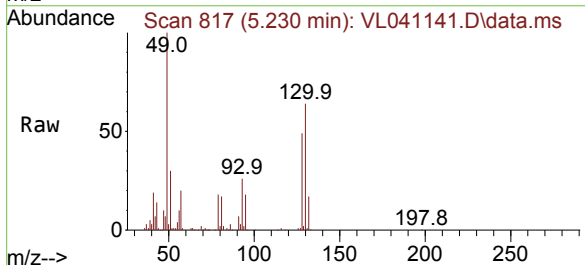
Instrument :
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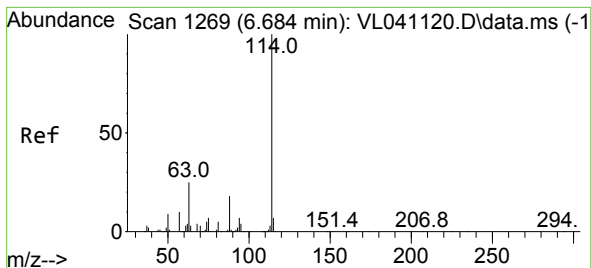
Tgt Ion: 43 Resp: 51340
Ion Ratio Lower Upper
43 100
45 4.7 8.2 12.2#
61 1.1 8.2 12.2#
70 4.2 5.5 8.3#



#26
Hexane
Concen: 0.605 ppbv
RT: 5.230 min Scan# 817
Delta R.T. -0.007 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 57 Resp: 72799
Ion Ratio Lower Upper
57 100
41 110.4 73.8 110.6
43 76.1 184.2 276.2#
56 66.4 43.1 64.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1

Delta R.T. -0.010 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

SV1

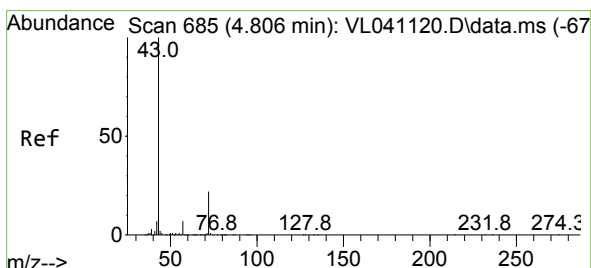
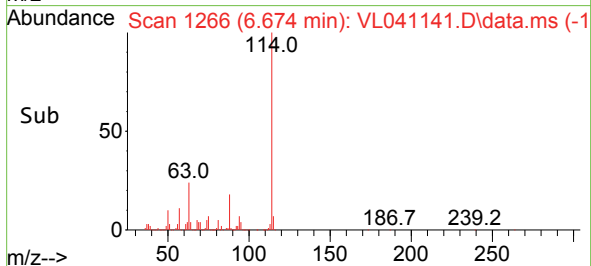
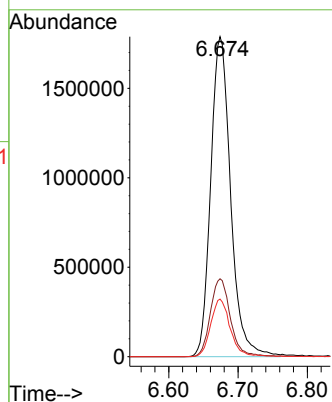
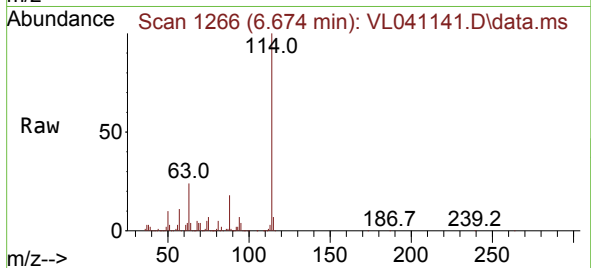
Tgt Ion:114 Resp: 3568468

Ion Ratio Lower Upper

114 100

63 24.6 21.0 31.6

88 17.8 14.6 22.0



#34

2-Butanone

Concen: 6.509 ppbv

RT: 4.806 min Scan# 685

Delta R.T. -0.000 min

Lab File: VL041141.D

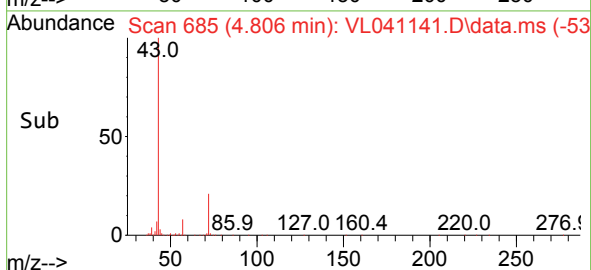
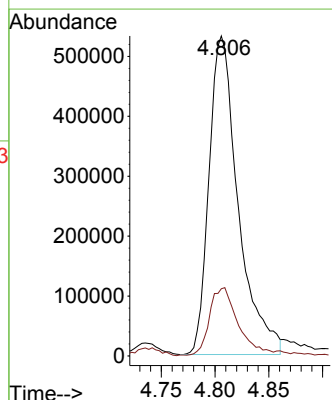
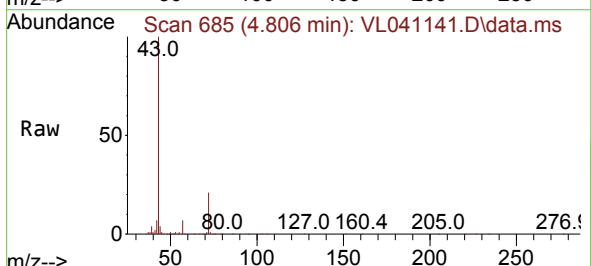
Acq: 5 Apr 2024 1:36

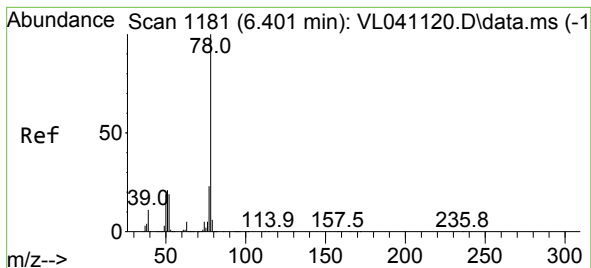
Tgt Ion: 43 Resp: 1003277

Ion Ratio Lower Upper

43 100

72 22.3 17.4 26.0





#36

Benzene

Concen: 0.049 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. -0.013 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

SV1

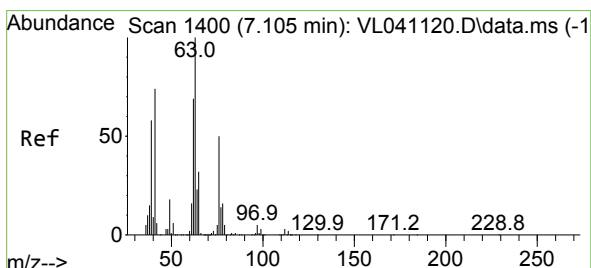
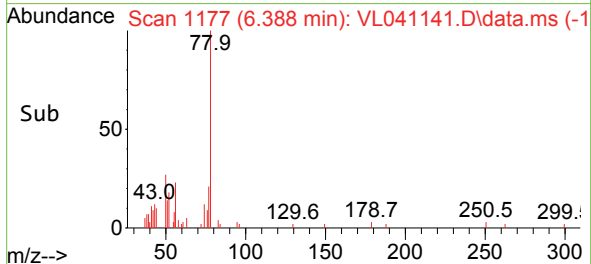
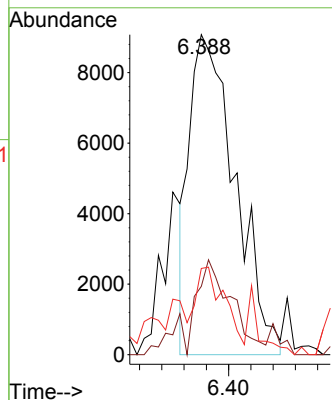
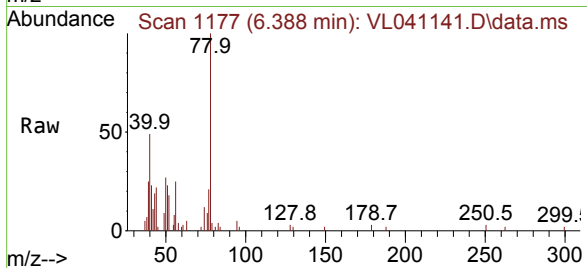
Tgt Ion: 78 Resp: 12950

Ion Ratio Lower Upper

78 100

77 18.1 18.8 28.2#

50 24.6 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 8.406 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. -0.431 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

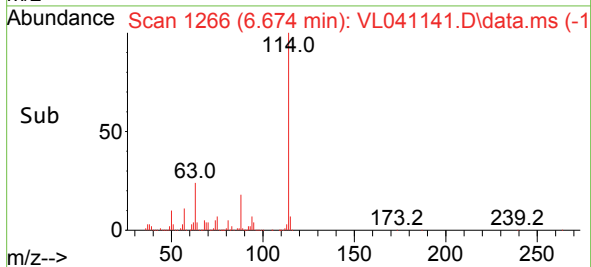
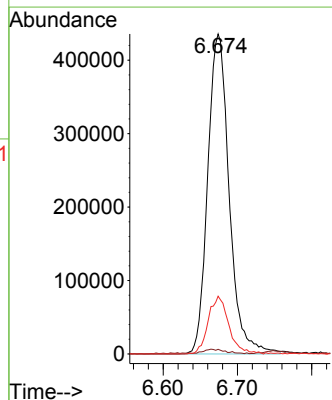
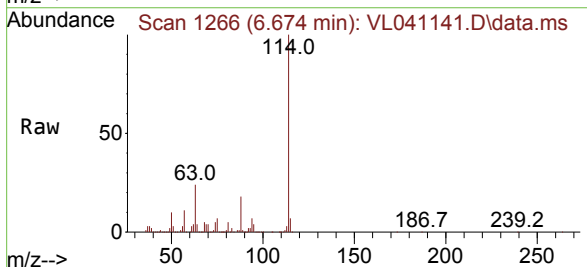
Tgt Ion: 63 Resp: 873437

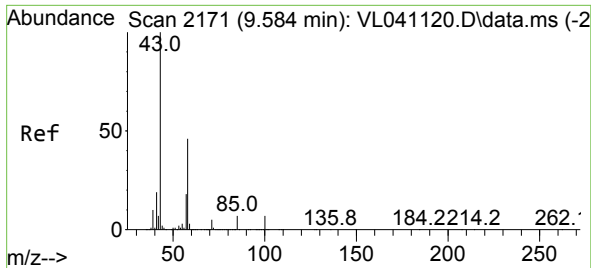
Ion Ratio Lower Upper

63 100

41 1.3 62.2 93.4#

62 18.0 57.0 85.4#

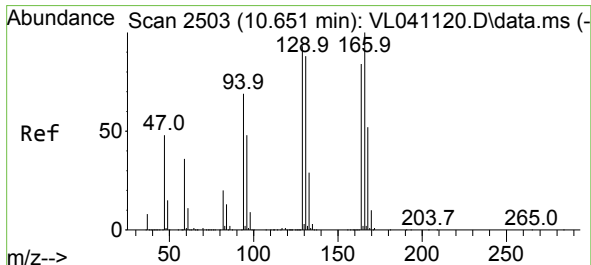
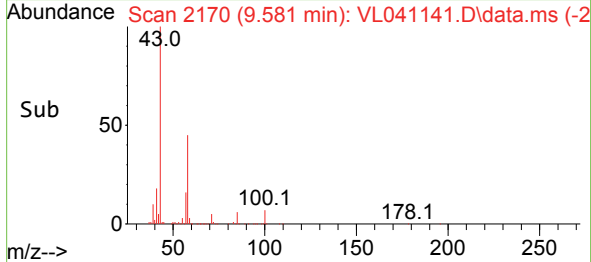
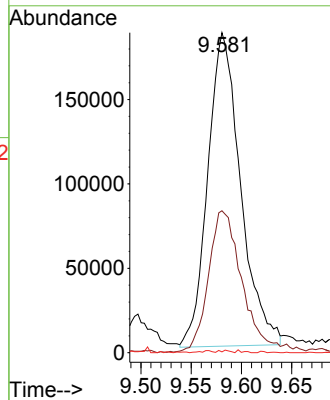
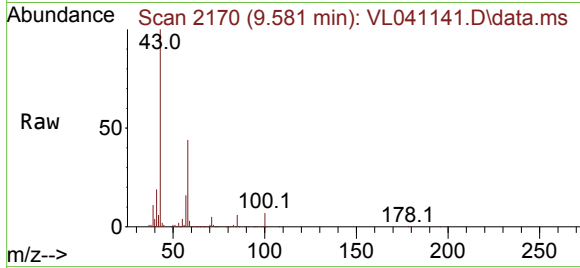




#51
2-Hexanone
Concen: 2.299 ppbv
RT: 9.581 min Scan# 2171
Delta R.T. -0.003 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

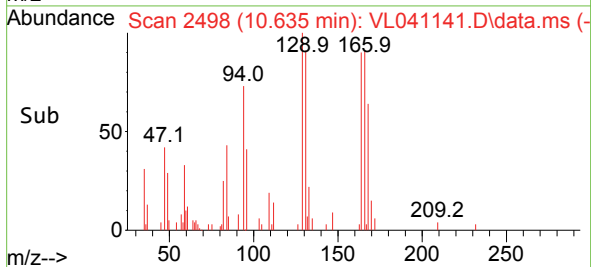
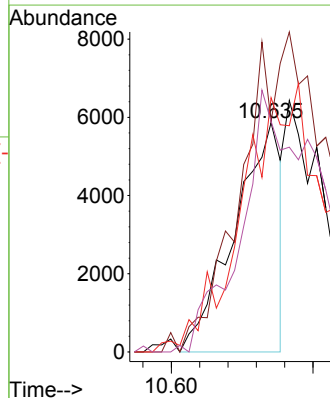
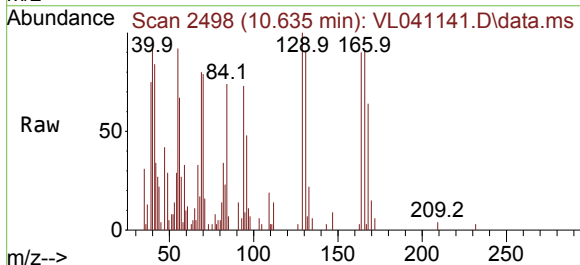
Instrument :
MSVOA_L
ClientSampleId :
SV1

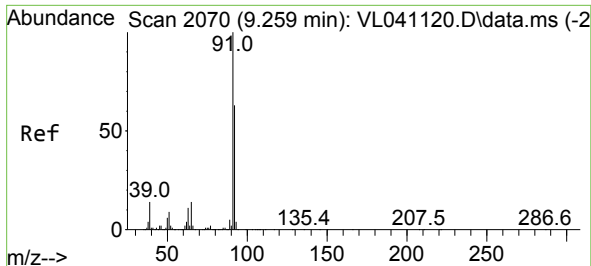
Tgt Ion: 43 Resp: 421487
Ion Ratio Lower Upper
43 100
58 47.0 37.4 56.2
98 0.7 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.079 ppbv
RT: 10.635 min Scan# 2498
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 164 Resp: 6671
Ion Ratio Lower Upper
164 100
166 100.4 100.6 150.8#
129 108.1 87.2 130.8
131 97.7 82.4 123.6





#53

Toluene

Concen: 0.376 ppbv

RT: 9.246 min Scan# 2070

Delta R.T. -0.013 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

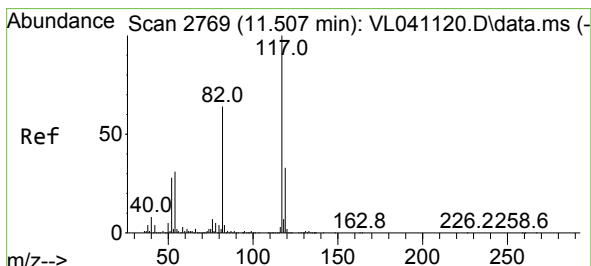
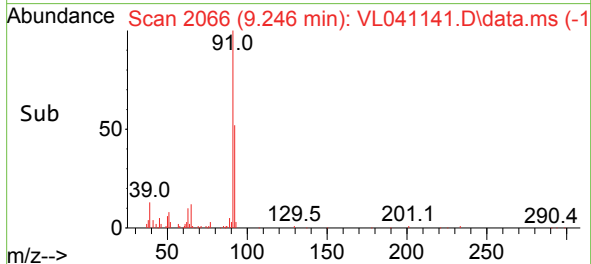
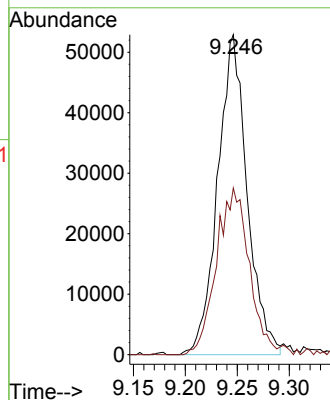
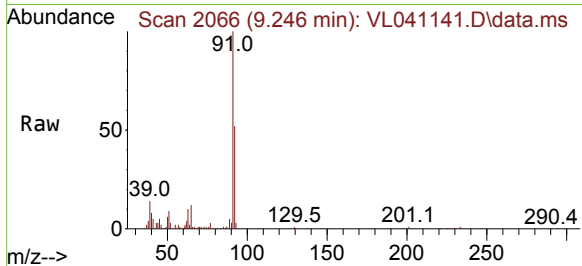
SV1

Tgt Ion: 91 Resp: 104220

Ion Ratio Lower Upper

91 100

92 59.6 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.490 min Scan# 2764

Delta R.T. -0.016 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

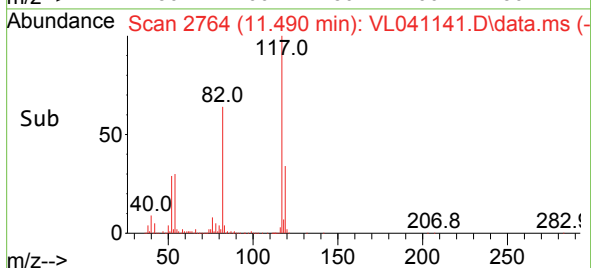
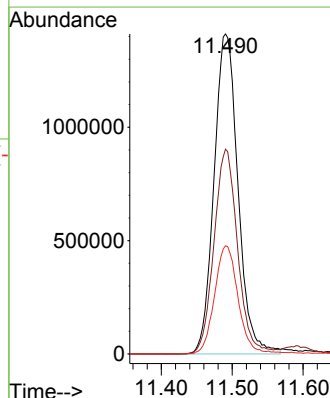
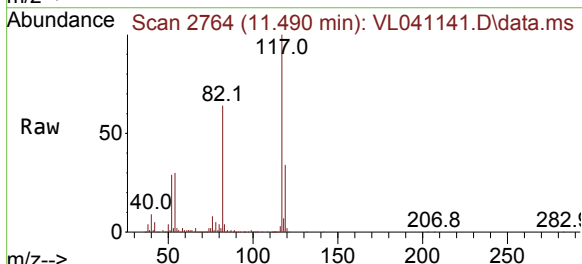
Tgt Ion: 117 Resp: 3317902

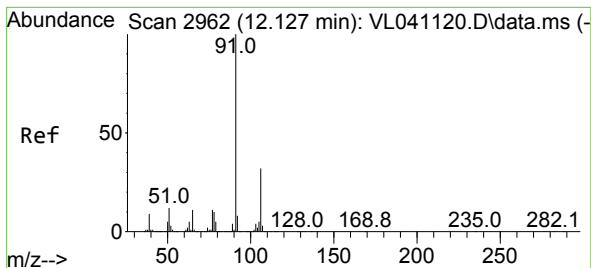
Ion Ratio Lower Upper

117 100

82 63.2 51.4 77.2

119 33.8 23.7 35.5





#58

Ethyl Benzene

Concen: 0.052 ppbv

RT: 12.124 min Scan# 2962

Delta R.T. -0.003 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

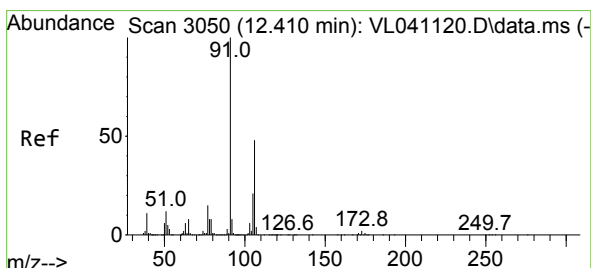
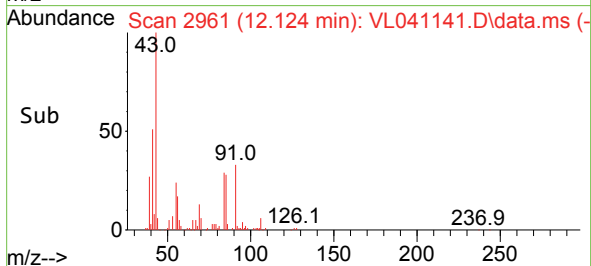
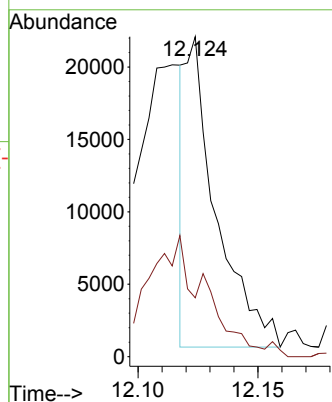
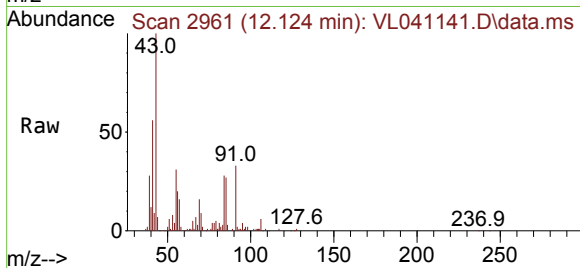
SV1

Tgt Ion: 91 Resp: 19123

Ion Ratio Lower Upper

91 100

106 16.8 24.6 36.8#



#59

m/p-Xylene

Concen: 0.087 ppbv

RT: 12.397 min Scan# 3046

Delta R.T. -0.013 min

Lab File: VL041141.D

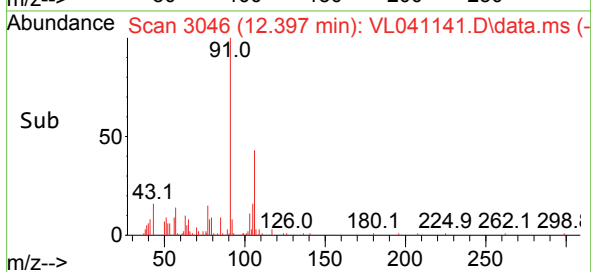
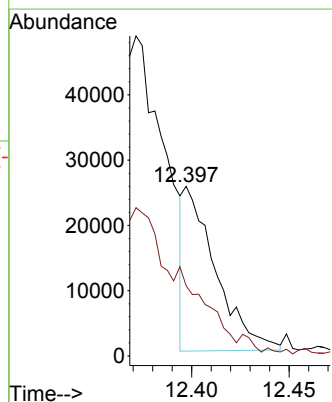
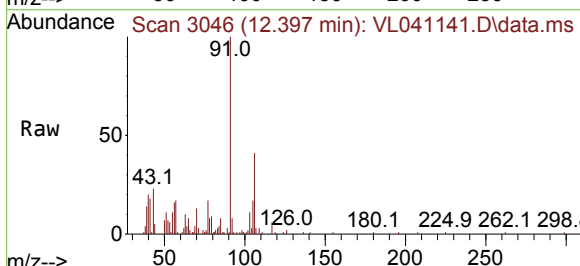
Acq: 5 Apr 2024 1:36

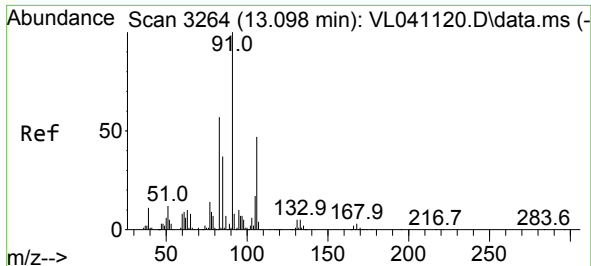
Tgt Ion: 91 Resp: 28715

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#

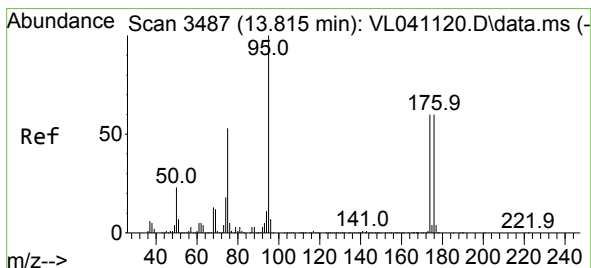
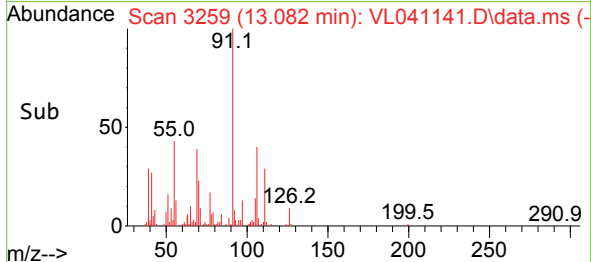
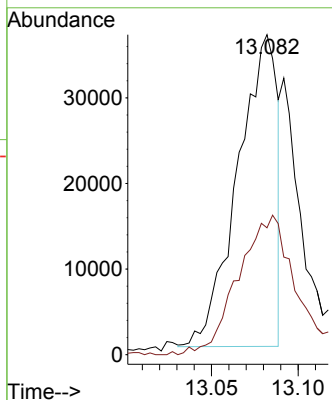
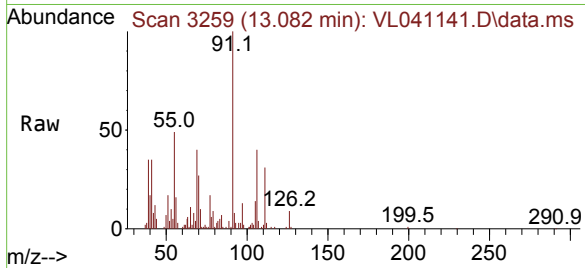




#60
o-Xylene
Concen: 0.184 ppbv
RT: 13.082 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

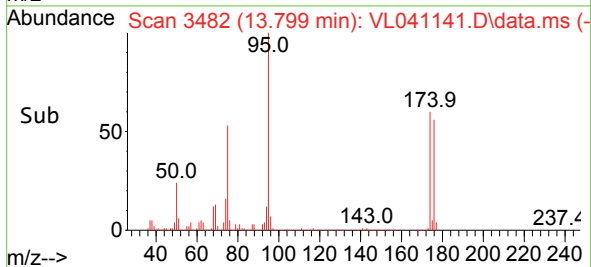
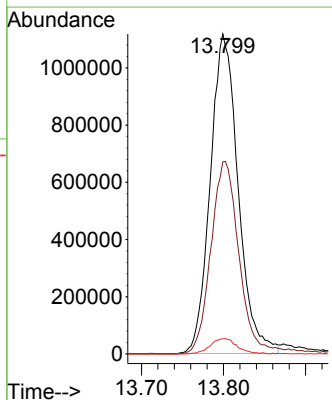
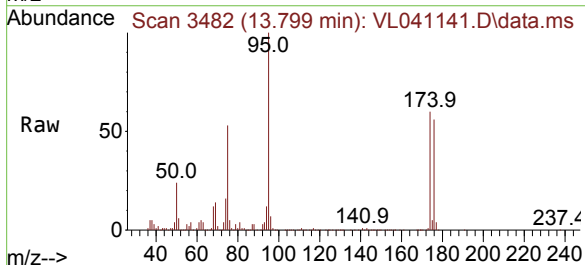
Instrument :
MSVOA_L
ClientSampleId :
SV1

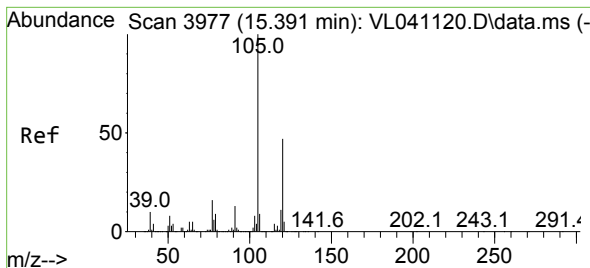
Tgt Ion: 91 Resp: 57672
Ion Ratio Lower Upper
91 100
106 67.5 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.856 ppbv
RT: 13.799 min Scan# 3482
Delta R.T. -0.016 min
Lab File: VL041141.D
Acq: 5 Apr 2024 1:36

Tgt Ion: 95 Resp: 2640322
Ion Ratio Lower Upper
95 100
174 62.7 47.8 71.8
175 4.8 3.5 5.3





#73

1,3,5-Trimethylbenzene

Concen: 0.053 ppbv

RT: 15.371 min Scan# 3977

Delta R.T. -0.019 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Instrument :

MSVOA_L

ClientSampleId :

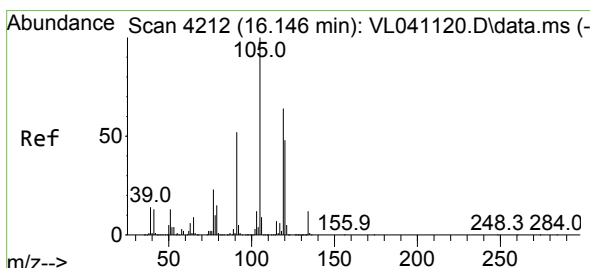
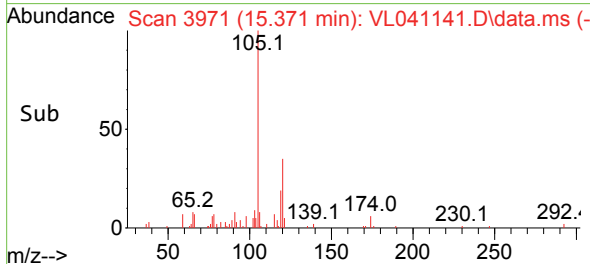
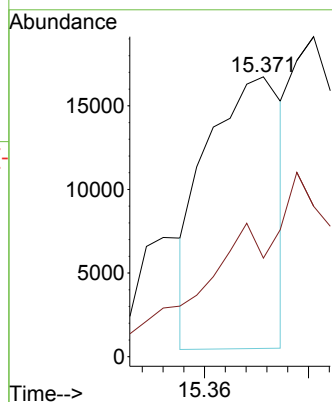
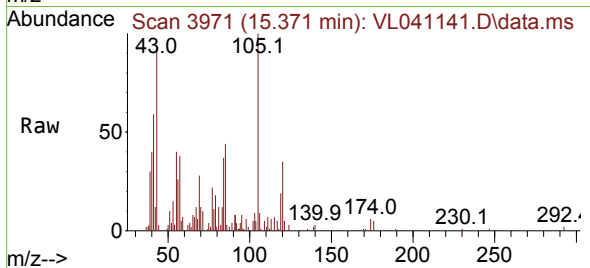
SV1

Tgt Ion:105 Resp: 16371

Ion Ratio Lower Upper

105 100

120 26.7 38.7 58.1#



#74

1,2,4-Trimethylbenzene

Concen: 0.495 ppbv

RT: 16.130 min Scan# 4207

Delta R.T. -0.016 min

Lab File: VL041141.D

Acq: 5 Apr 2024 1:36

Tgt Ion:105 Resp: 175922

Ion Ratio Lower Upper

105 100

120 46.3 40.4 60.6

91 9.4 41.4 62.0#

77 15.7 19.0 28.4#

