

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040704.D
 Acq On : 18 Sep 2023 18:22
 Operator : SY/MD
 Sample : 04402-03DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-4DL

Quant Time: Sep 19 05:20:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

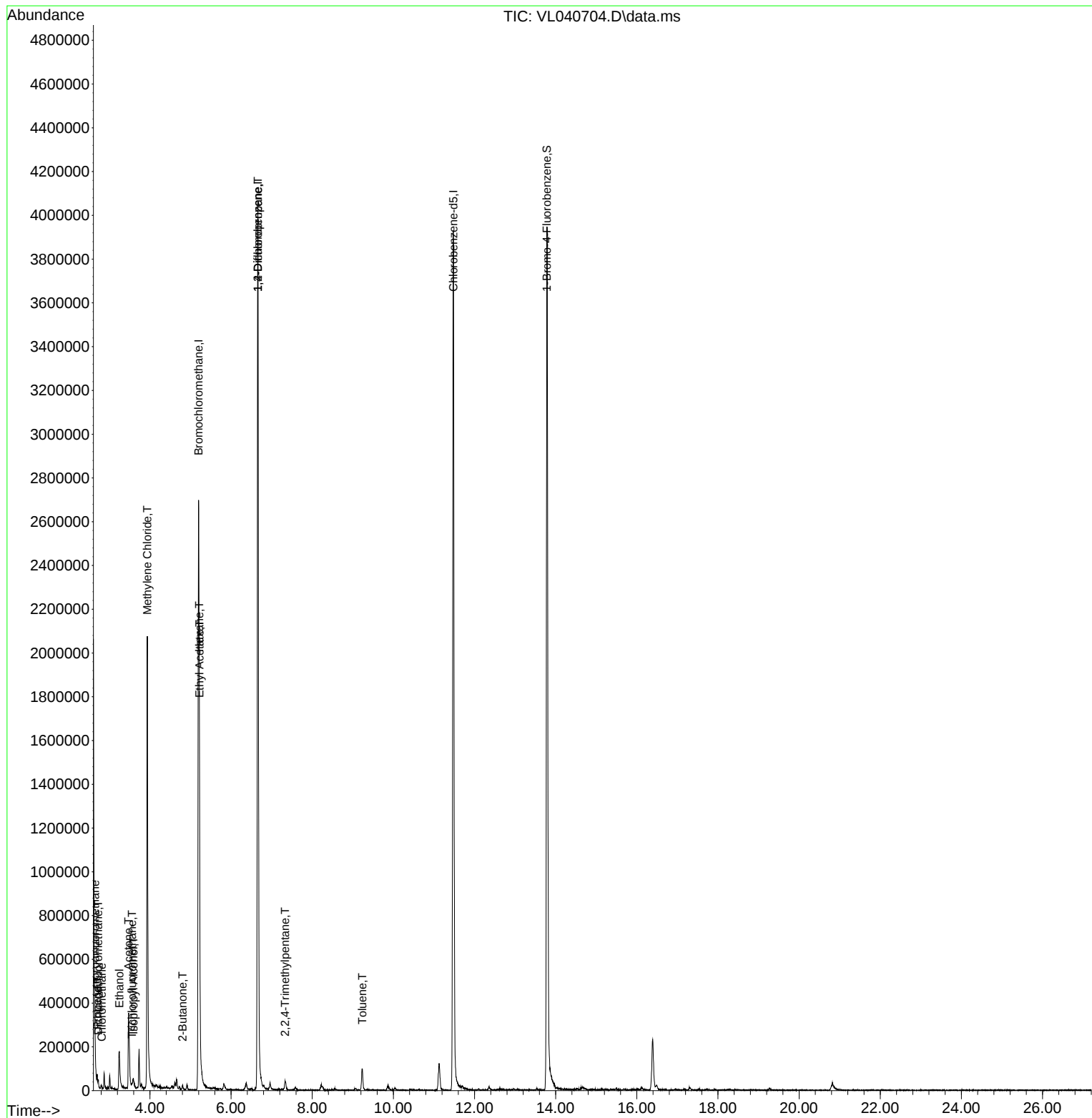
Internal Standards						
1) Bromochloromethane	5.198	49	1118907	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2900939	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2432427	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1866665	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	21302	0.086	ppbv	99
3) Chlorodifluoromethane	2.652	51	46580	0.256	ppbv #	67
4) Chloromethane	2.812	50	7091	0.102	ppbv #	85
9) Propene	2.700	41	9445	0.180	ppbv	85
11) Trichlorofluoromethane	3.558	101	7162	0.033	ppbv	96
13) Ethanol	3.246	45	131826	8.481	ppbv	67
15) Acetone	3.472	43	367191	2.488	ppbv	99
19) Isopropyl Alcohol	3.594	45	37016	0.416	ppbv #	67
20) Methylene Chloride	3.938	84	730373	9.194	ppbv	94
25) Ethyl Acetate	5.221	43	290248	1.219	ppbv #	74
26) Hexane	5.217	57	436834	3.881	ppbv #	40
34) 2-Butanone	4.806	43	20536	0.141	ppbv	95
39) 1,2-Dichloropropane	6.658	63	742388	8.978	ppbv #	25
44) 2,2,4-Trimethylpentane	7.330	57	10473	0.031	ppbv #	1
53) Toluene	9.233	91	64531	0.285	ppbv	91

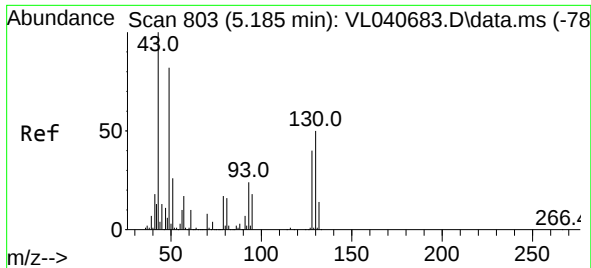
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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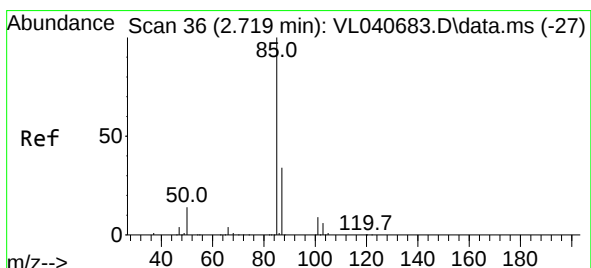
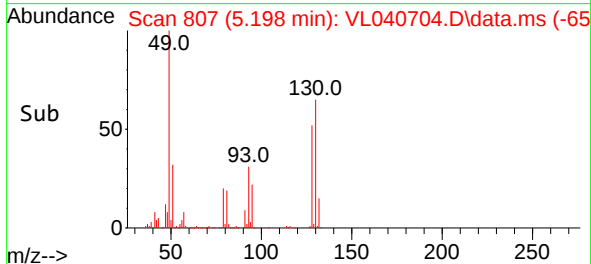
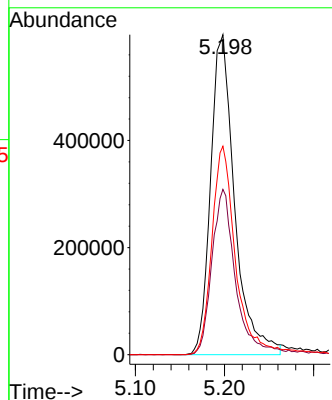
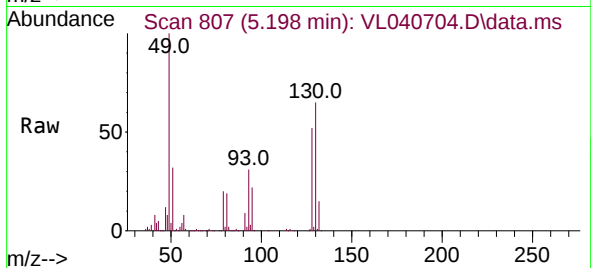




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

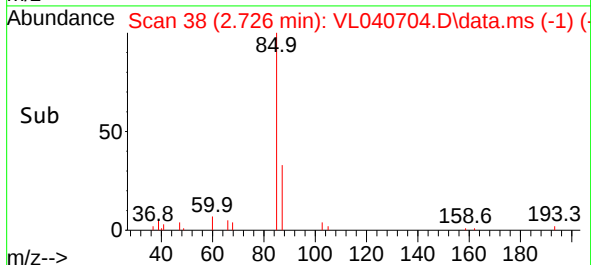
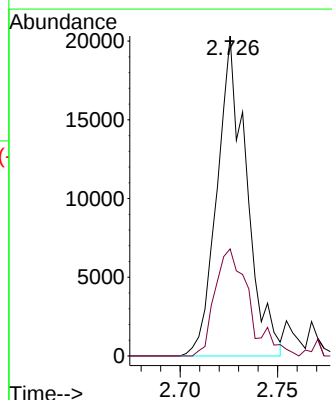
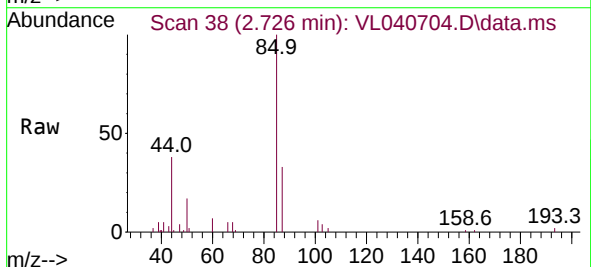
Instrument :
MSVOA_L
ClientSampleId :
ST-4DL

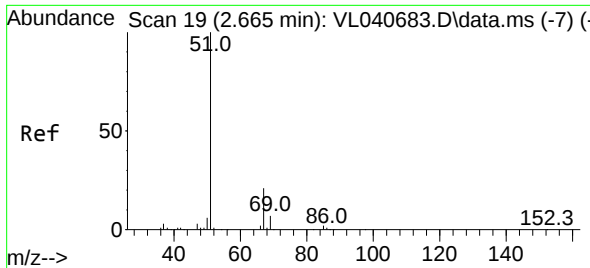
Tgt Ion: 49 Resp: 1118907
Ion Ratio Lower Upper
49 100
128 52.4 25.4 76.0
130 65.9 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.086 ppbv
RT: 2.726 min Scan# 38
Delta R.T. -0.006 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

Tgt Ion: 85 Resp: 21302
Ion Ratio Lower Upper
85 100
87 33.5 27.2 40.8

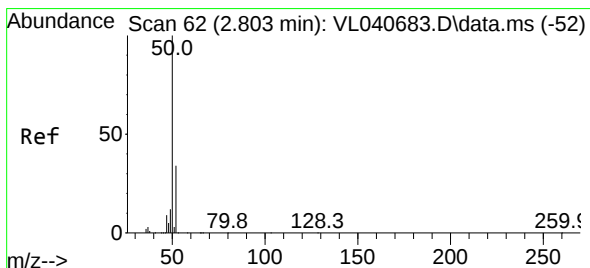
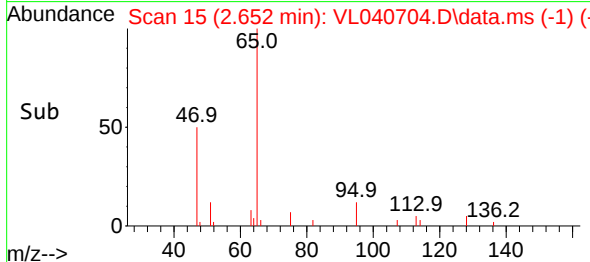
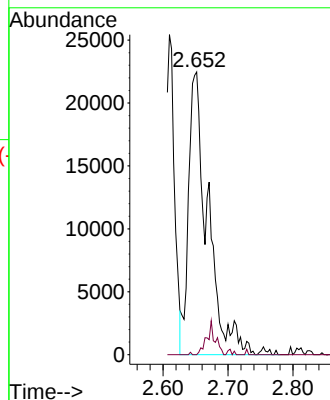
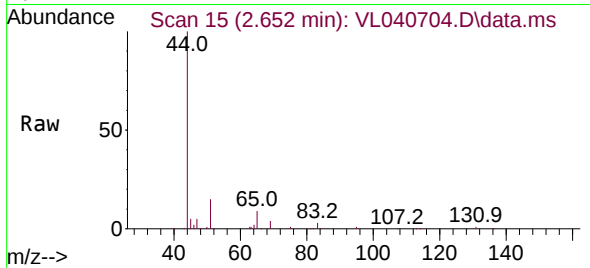




#3
Chlorodifluoromethane
Concen: 0.256 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

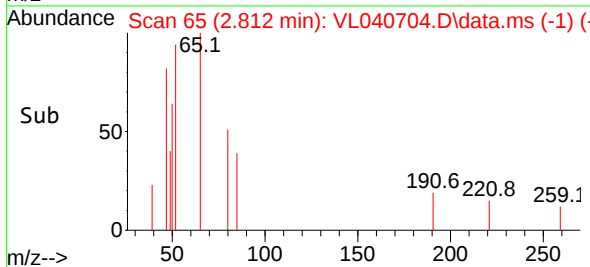
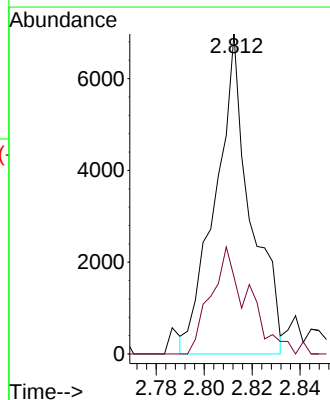
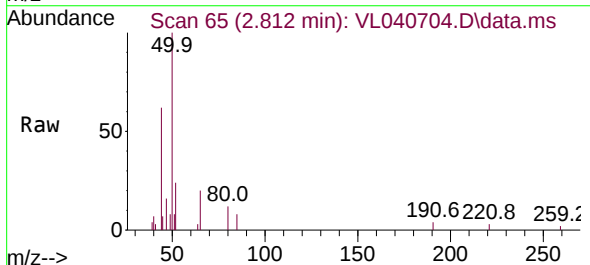
Instrument :
MSVOA_L
ClientSampleId :
ST-4DL

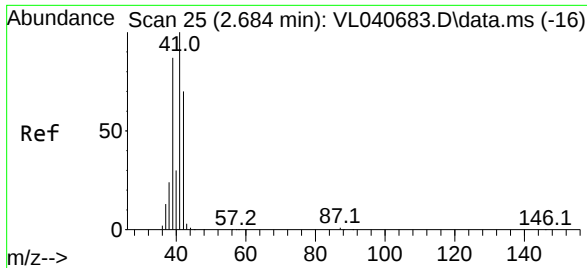
Tgt Ion: 51 Resp: 46580
Ion Ratio Lower Upper
51 100
67 5.6 16.7 25.1#



#4
Chloromethane
Concen: 0.102 ppbv
RT: 2.812 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

Tgt Ion: 50 Resp: 7091
Ion Ratio Lower Upper
50 100
52 25.5 27.1 40.7#





#9

Propene

Concen: 0.180 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

Instrument :

MSVOA_L

ClientSampleId :

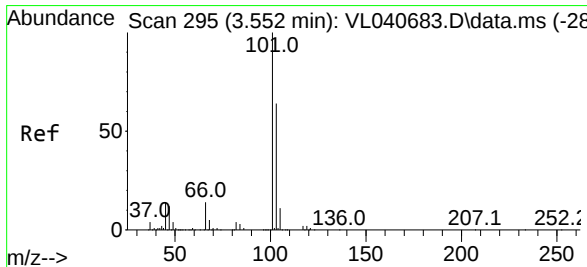
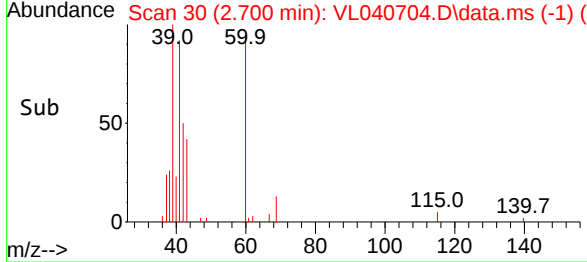
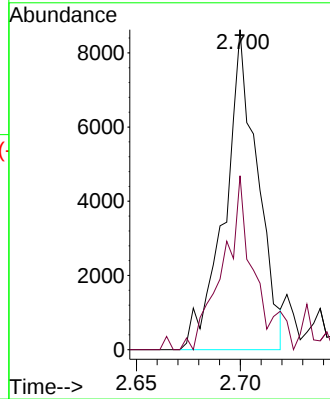
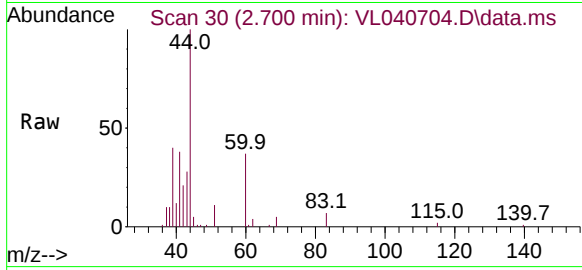
ST-4DL

Tgt Ion: 41 Resp: 9445

Ion Ratio Lower Upper

41 100

42 58.9 56.7 85.1



#11

Trichlorofluoromethane

Concen: 0.033 ppbv

RT: 3.558 min Scan# 297

Delta R.T. -0.010 min

Lab File: VL040704.D

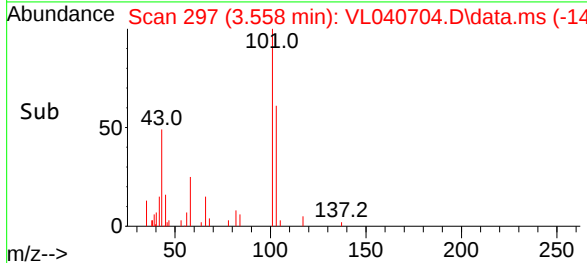
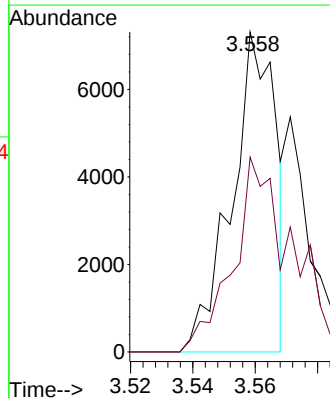
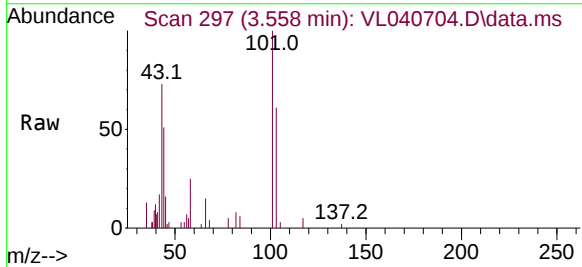
Acq: 18 Sep 2023 18:22

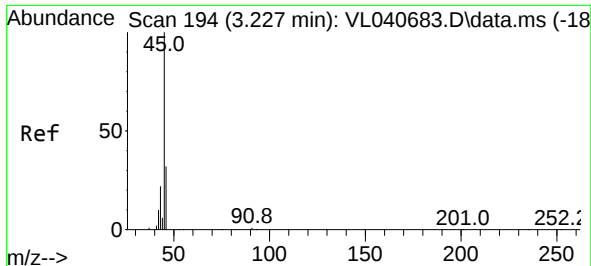
Tgt Ion: 101 Resp: 7162

Ion Ratio Lower Upper

101 100

103 60.9 51.3 76.9





#13

Ethanol

Concen: 8.481 ppbv

RT: 3.246 min Scan# 20

Delta R.T. 0.003 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

Instrument :

MSVOA_L

ClientSampleId :

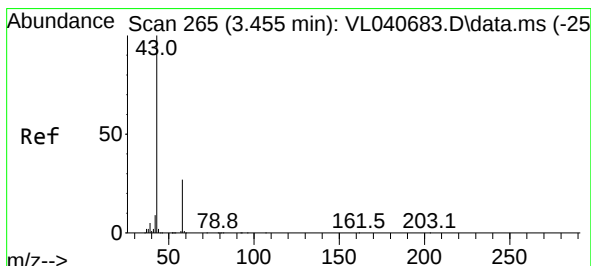
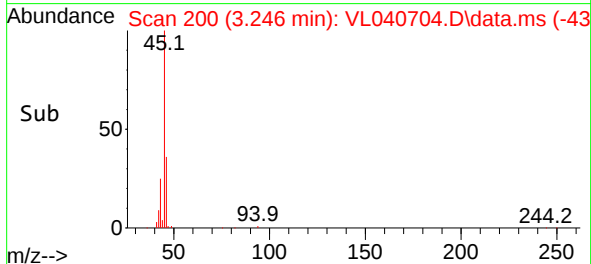
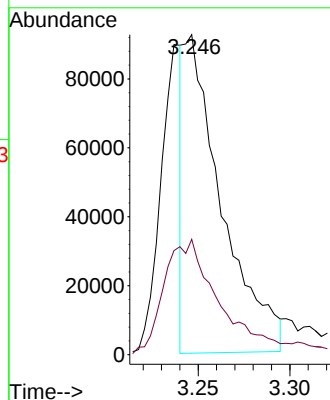
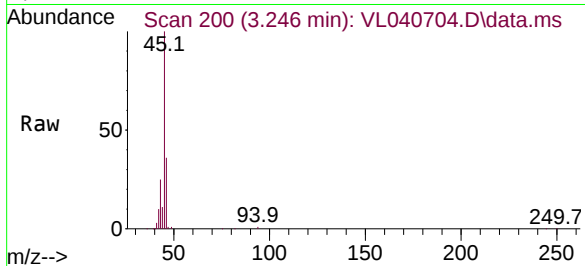
ST-4DL

Tgt Ion: 45 Resp: 131826

Ion Ratio Lower Upper

45 100

46 58.0 15.2 61.0



#15

Acetone

Concen: 2.488 ppbv

RT: 3.472 min Scan# 270

Delta R.T. 0.000 min

Lab File: VL040704.D

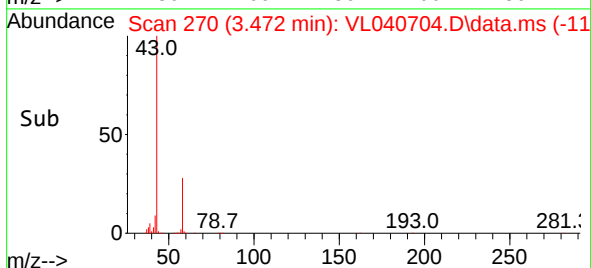
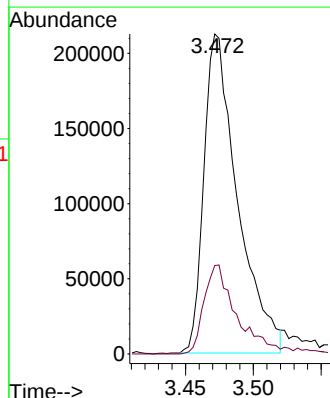
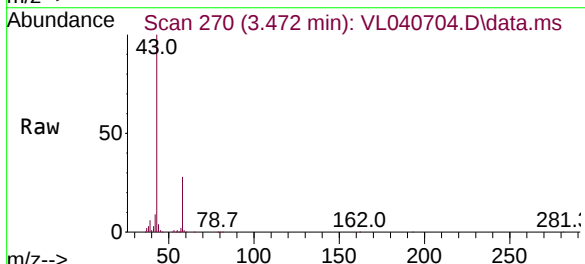
Acq: 18 Sep 2023 18:22

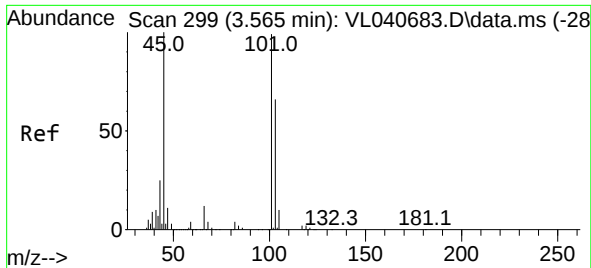
Tgt Ion: 43 Resp: 367191

Ion Ratio Lower Upper

43 100

58 28.6 22.6 34.0





#19

Isopropyl Alcohol

Concen: 0.416 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.016 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

Instrument :

MSVOA_L

ClientSampleId :

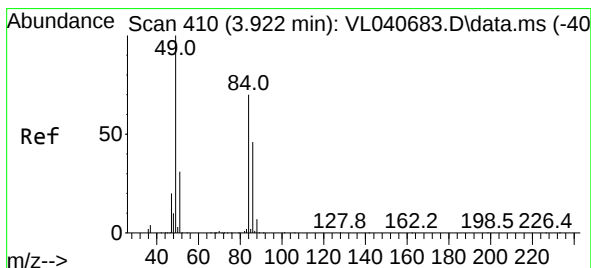
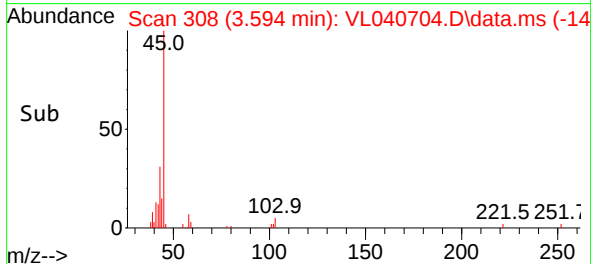
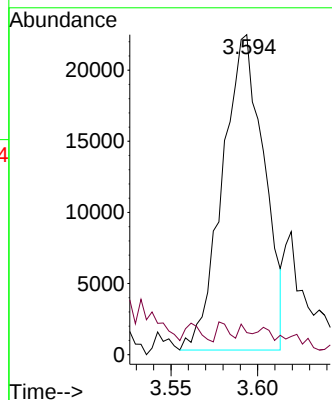
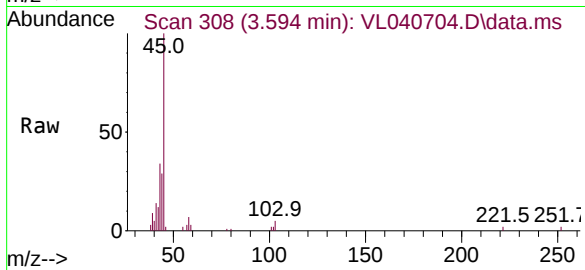
ST-4DL

Tgt Ion: 45 Resp: 37016

Ion Ratio Lower Upper

45 100

58 13.6 1.9 2.9#



#20

Methylene Chloride

Concen: 9.194 ppbv

RT: 3.938 min Scan# 415

Delta R.T. 0.000 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

Tgt Ion: 84 Resp: 730373

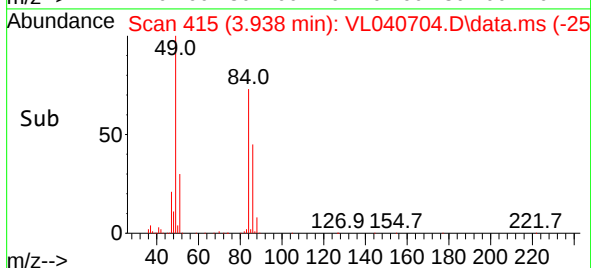
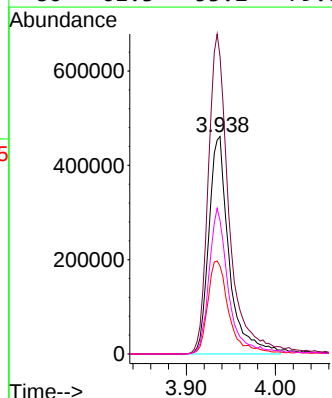
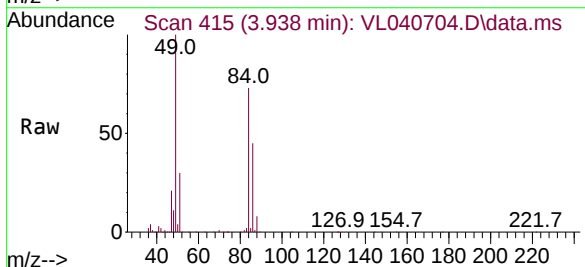
Ion Ratio Lower Upper

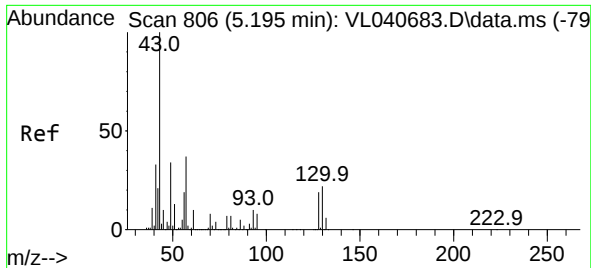
84 100

49 136.8 114.4 171.6

51 40.4 35.5 53.3

86 61.3 53.2 79.8

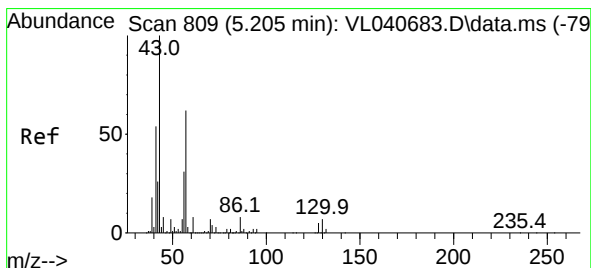
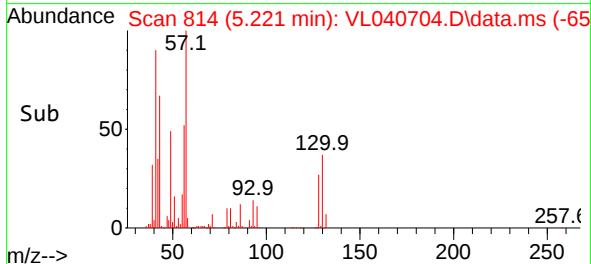
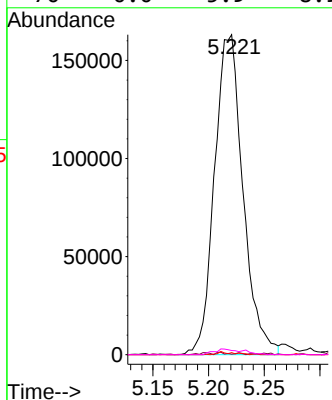
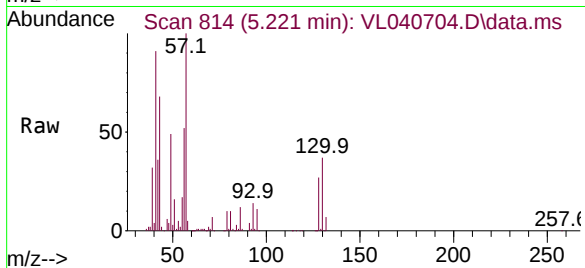




#25
Ethyl Acetate
Concen: 1.219 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

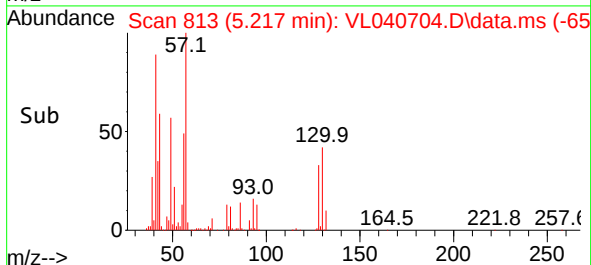
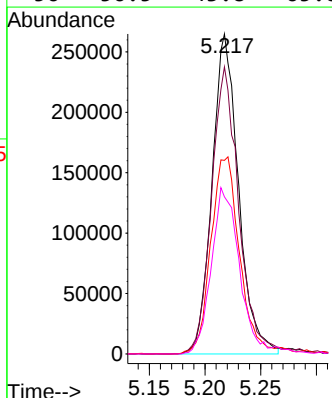
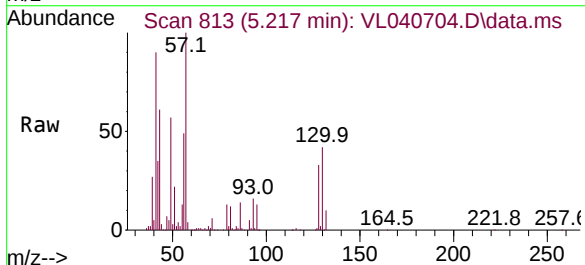
Instrument :
MSVOA_L
ClientSampleId :
ST-4DL

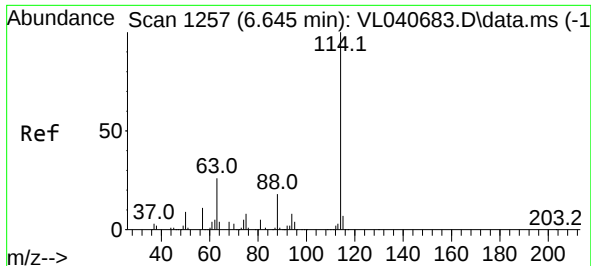
Tgt Ion: 43 Resp: 290248
Ion Ratio Lower Upper
43 100
45 0.2 8.2 12.4#
61 0.0 8.2 12.4#
70 0.0 5.9 8.9#



#26
Hexane
Concen: 3.881 ppbv
RT: 5.217 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

Tgt Ion: 57 Resp: 436834
Ion Ratio Lower Upper
57 100
41 94.2 75.2 112.8
43 68.5 185.6 278.4#
56 56.5 43.8 65.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

Instrument :

MSVOA_L

ClientSampleId :

ST-4DL

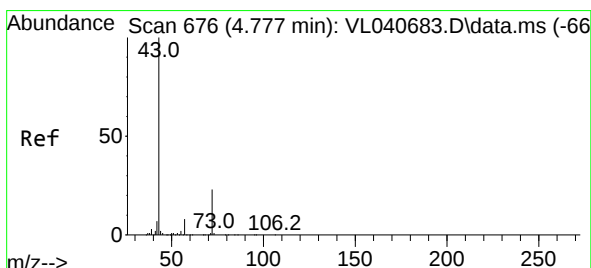
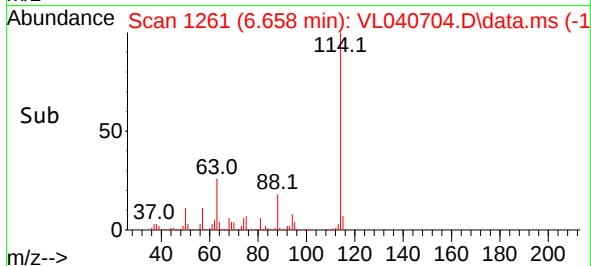
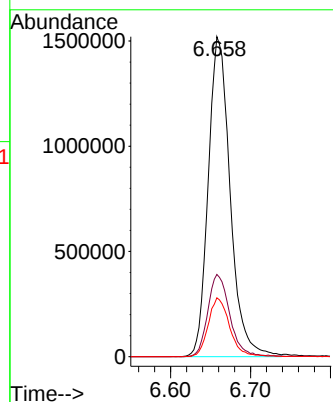
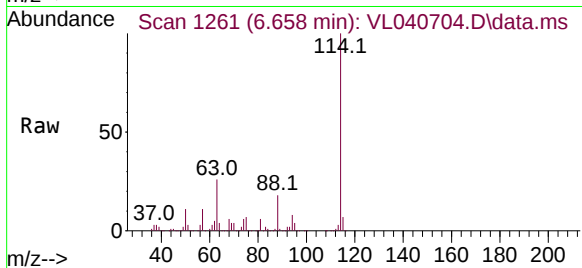
Tgt Ion:114 Resp: 2900939

Ion Ratio Lower Upper

114 100

63 26.0 21.1 31.7

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 0.141 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.016 min

Lab File: VL040704.D

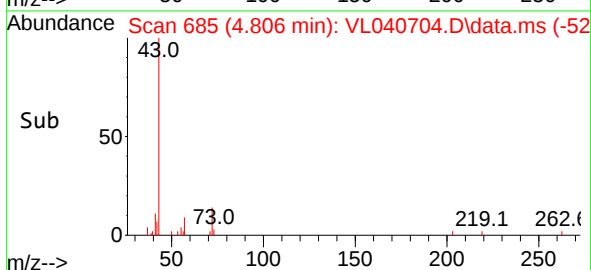
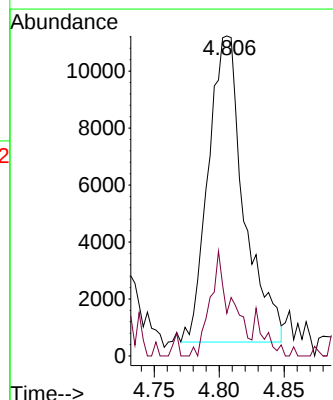
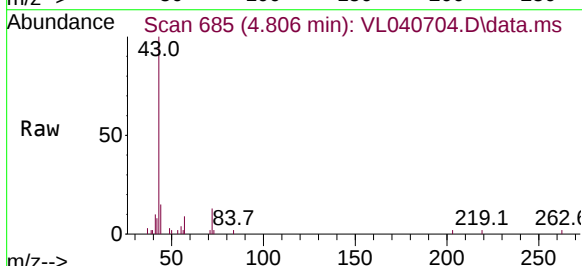
Acq: 18 Sep 2023 18:22

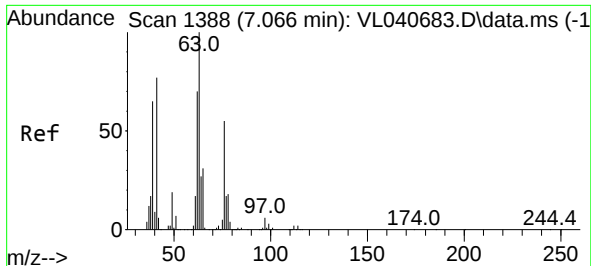
Tgt Ion: 43 Resp: 20536

Ion Ratio Lower Upper

43 100

72 25.7 18.6 27.8





#39

1,2-Dichloropropane

Concen: 8.978 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

Instrument :

MSVOA_L

ClientSampleId :

ST-4DL

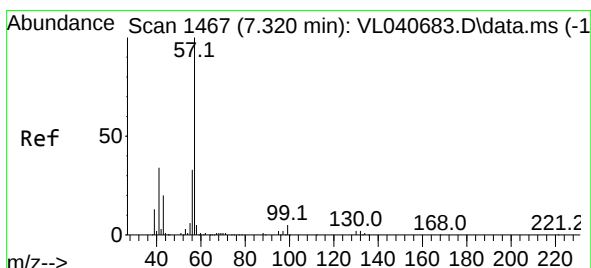
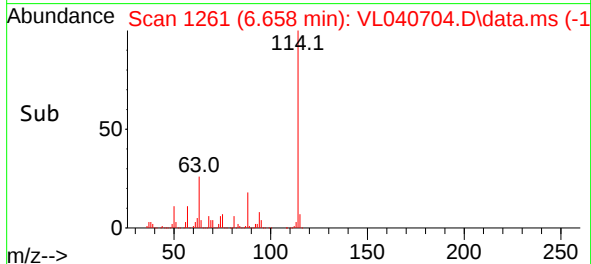
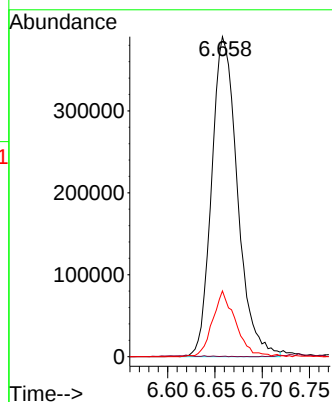
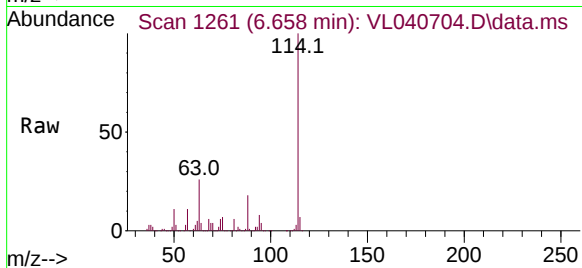
Tgt Ion: 63 Resp: 742388

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 20.6 55.8 83.8#



#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VL040704.D

Acq: 18 Sep 2023 18:22

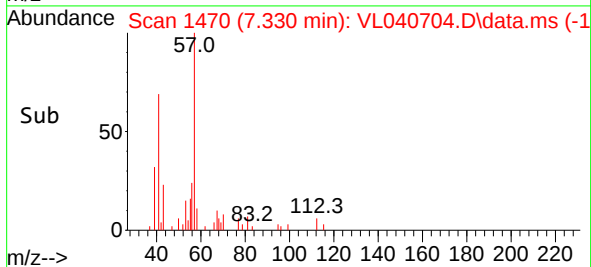
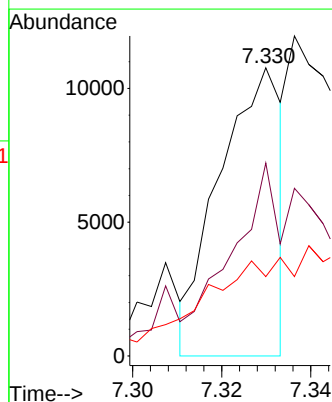
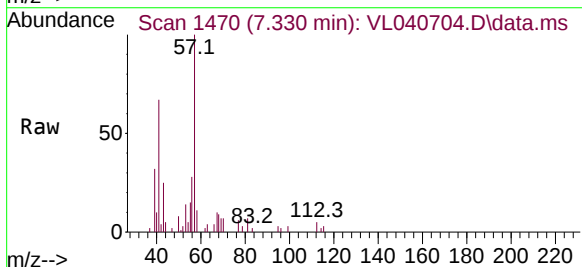
Tgt Ion: 57 Resp: 10473

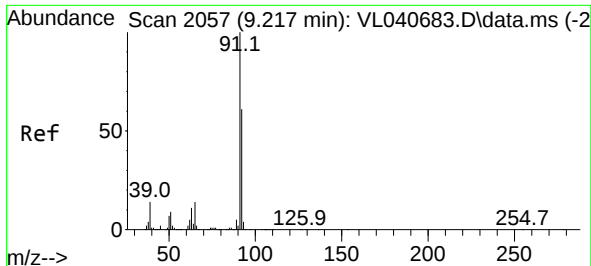
Ion Ratio Lower Upper

57 100

41 152.7 28.5 42.7#

56 0.0 25.4 38.2#

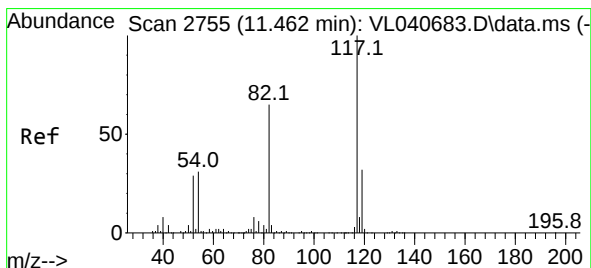
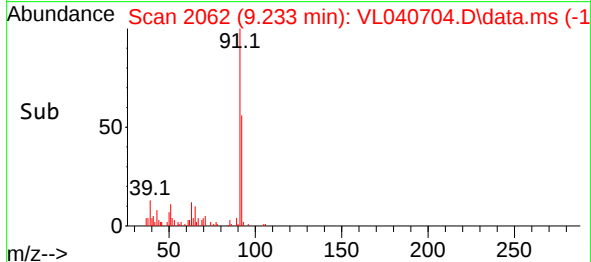
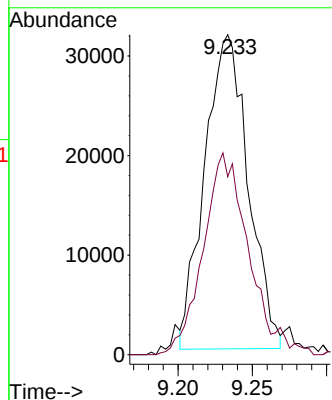
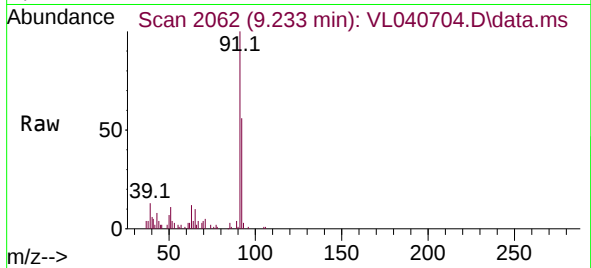




#53
Toluene
Concen: 0.285 ppbv
RT: 9.233 min Scan# 2057
Delta R.T. 0.003 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

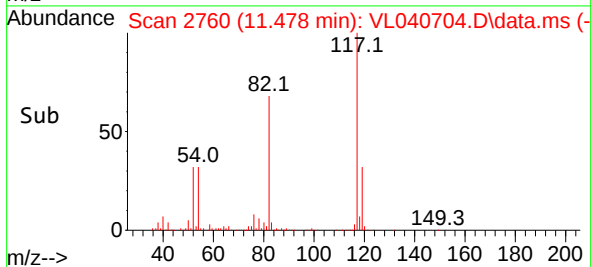
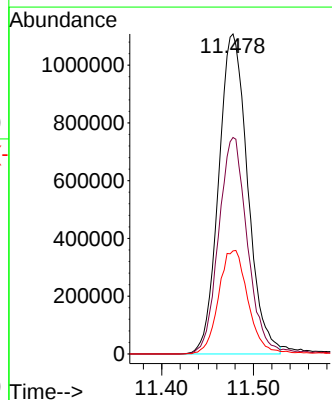
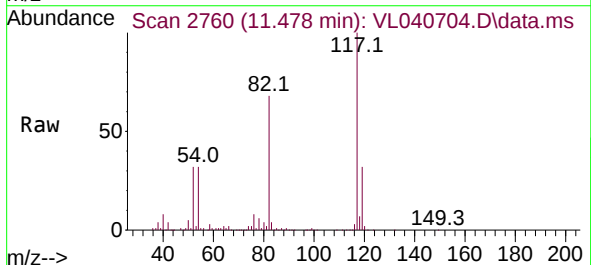
Instrument :
MSVOA_L
ClientSampleId :
ST-4DL

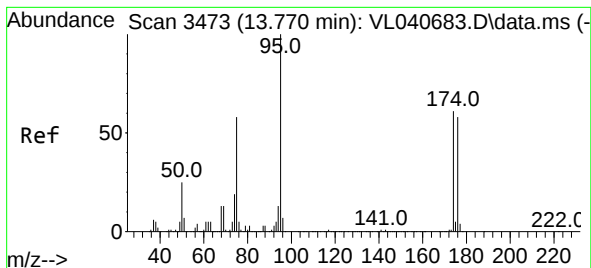
Tgt Ion: 91 Resp: 64531
Ion Ratio Lower Upper
91 100
92 67.2 48.5 72.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.000 min
Lab File: VL040704.D
Acq: 18 Sep 2023 18:22

Tgt Ion: 117 Resp: 2432427
Ion Ratio Lower Upper
117 100
82 68.1 51.4 77.0
119 33.4 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.933 ppbv

RT: 13.786 min Scan# 34

Delta R.T. 0.000 min

Lab File: VL040704.D

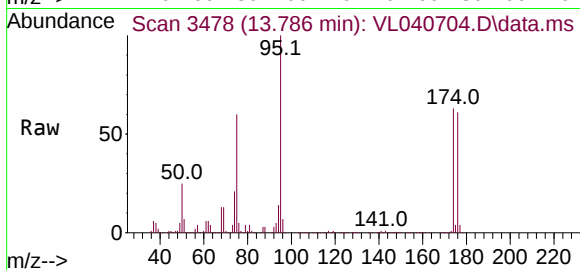
Acq: 18 Sep 2023 18:22

Instrument :

MSVOA_L

ClientSampleId :

ST-4DL



Tgt Ion: 95 Resp: 1866665

Ion Ratio Lower Upper

95 100

174 62.7 48.9 73.3

175 4.5 3.5 5.3

