

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040852.D
 Acq On : 14 Nov 2023 15:58
 Operator : SY/MD
 Sample : 05399-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 16 04:49:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

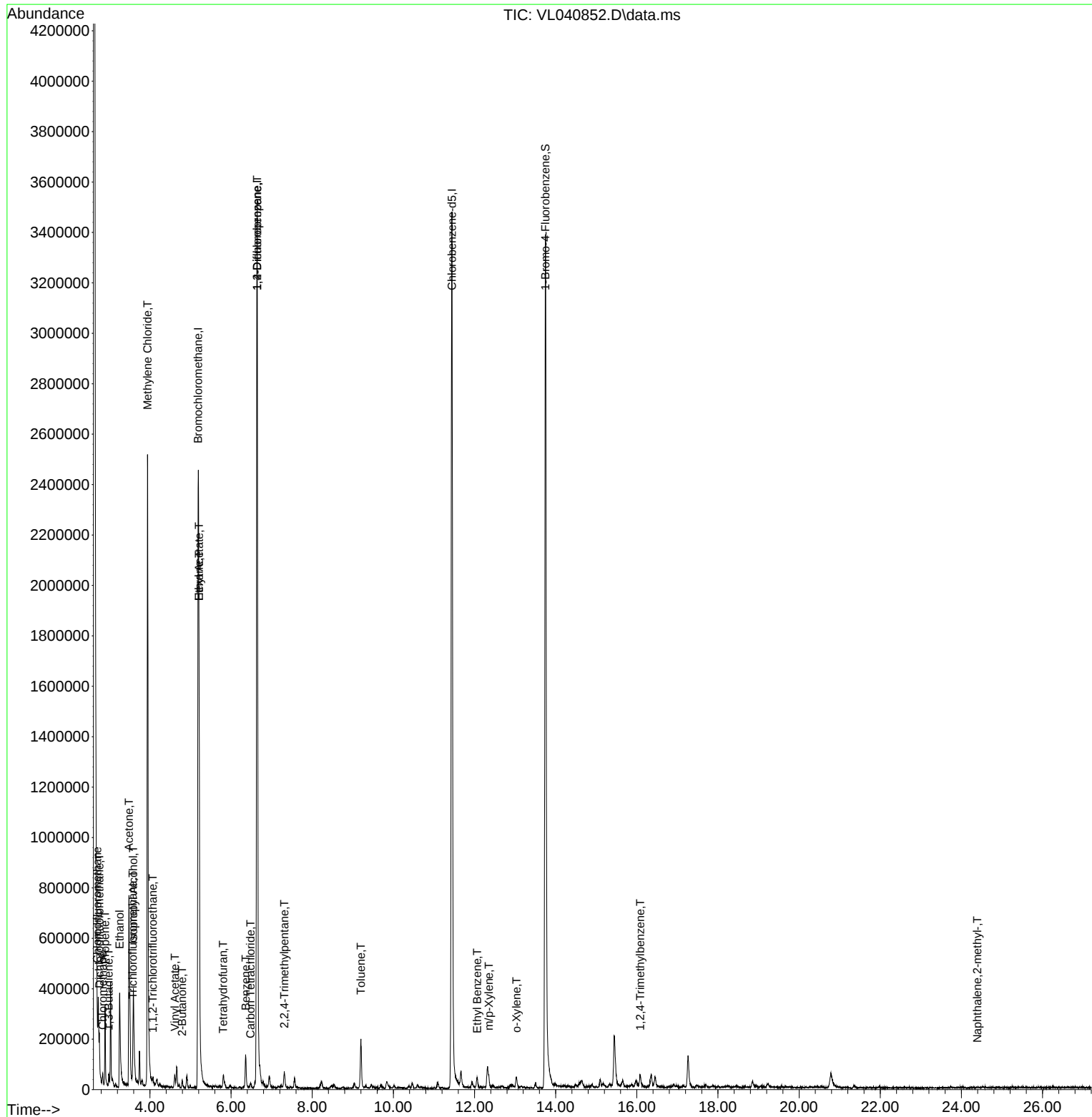
Internal Standards						
1) Bromochloromethane	5.189	49	1052935	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	2736632	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2328665	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1782012	9.774	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	103510	0.485	ppbv	96
3) Chlorodifluoromethane	2.700	51	79714	0.474	ppbv #	80
4) Chloromethane	2.835	50	28333	0.469	ppbv	91
9) Propene	2.893	41	70055	1.237	ppbv	96
11) Trichlorofluoromethane	3.578	101	32979	0.201	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.073	101	6490	0.056	ppbv	85
13) Ethanol	3.256	45	409669	37.239	ppbv #	100
15) Acetone	3.485	43	788525	7.031	ppbv	100
16) 1,3-Butadiene	2.983	39	5841	0.103	ppbv #	11
19) Isopropyl Alcohol	3.591	45	446229	6.612	ppbv #	1
20) Methylene Chloride	3.941	84	808391	17.468	ppbv	97
23) Vinyl Acetate	4.616	43	25303	0.175	ppbv #	25
25) Ethyl Acetate	5.211	43	348616	1.501	ppbv #	79
26) Hexane	5.211	57	496369	4.830	ppbv #	41
34) 2-Butanone	4.793	43	32850	0.236	ppbv #	89
35) Carbon Tetrachloride	6.481	117	6424	0.038	ppbv #	94
36) Benzene	6.359	78	103143	0.464	ppbv #	91
39) 1,2-Dichloropropane	6.642	63	667571	7.581	ppbv #	24
41) Tetrahydrofuran	5.803	42	3009	0.035	ppbv #	42
44) 2,2,4-Trimethylpentane	7.314	57	47806	0.130	ppbv #	77
53) Toluene	9.201	91	133861	0.548	ppbv	99
58) Ethyl Benzene	12.063	91	19706	0.065	ppbv	94
59) m/p-Xylene	12.352	91	16049	0.062	ppbv #	32
60) o-Xylene	13.034	91	14208	0.058	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.085	105	31179	0.117	ppbv #	62
80) Naphthalene,2-methyl-	24.394	142	934	0.039	ppbv #	66

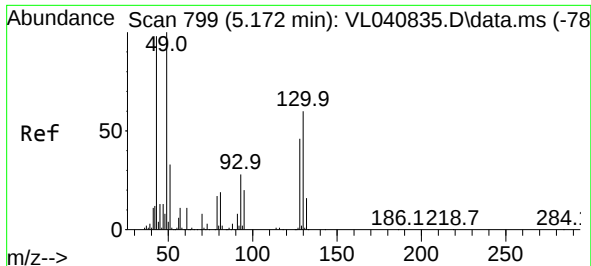
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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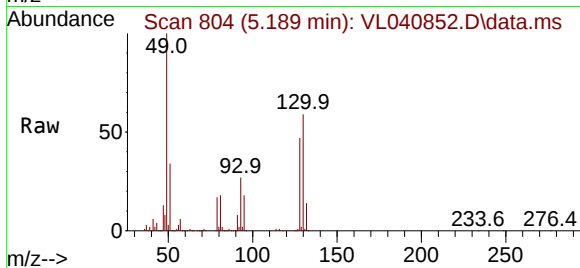
Quant Time: Nov 16 04:49:02 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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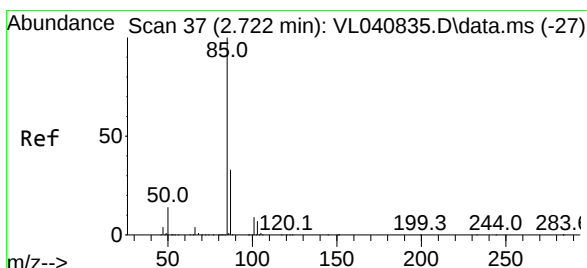
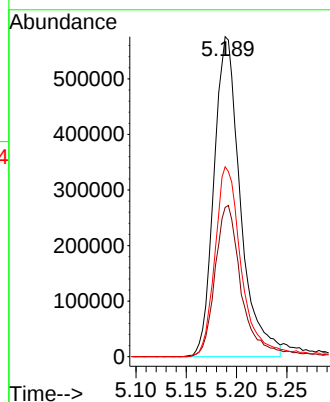
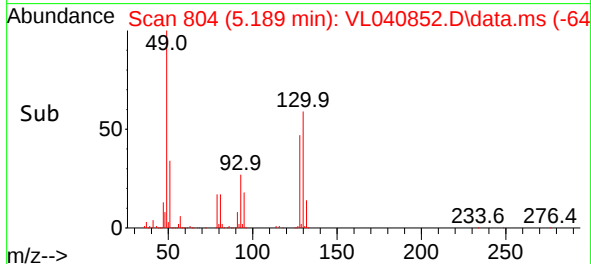


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. 0.017 min
 Lab File: VL040852.D
 Acq: 14 Nov 2023 15:58

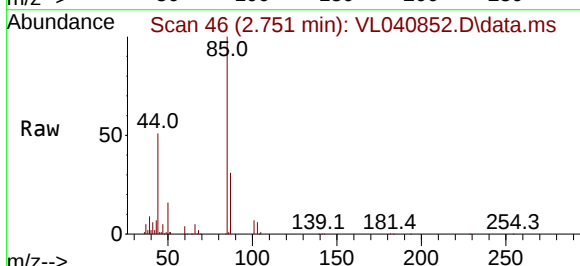
Instrument :
 MSVOA_L
 ClientSampleId :



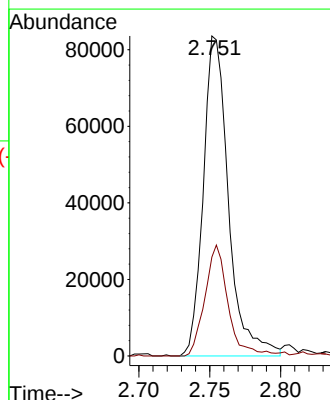
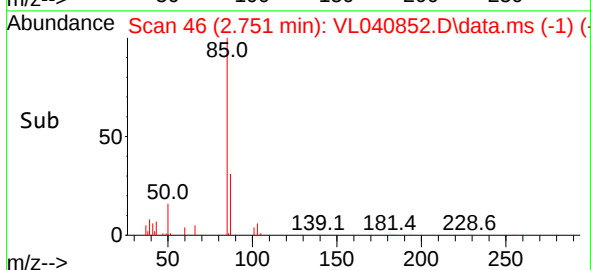
Tgt Ion: 49 Resp: 1052935
 Ion Ratio Lower Upper
 49 100
 128 48.9 23.8 71.2
 130 61.7 30.9 92.8

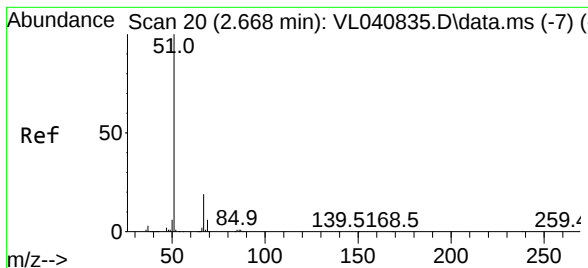


#2
 Dichlorodifluoromethane
 Concen: 0.485 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.029 min
 Lab File: VL040852.D
 Acq: 14 Nov 2023 15:58



Tgt Ion: 85 Resp: 103510
 Ion Ratio Lower Upper
 85 100
 87 30.9 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.474 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.032 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

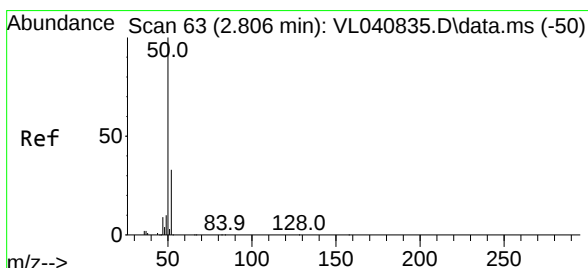
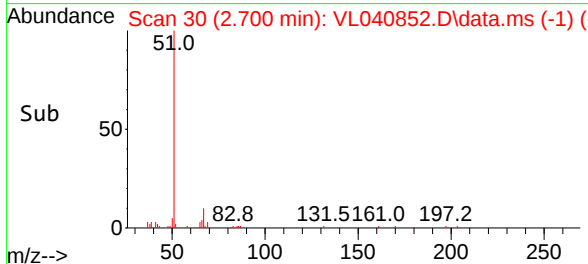
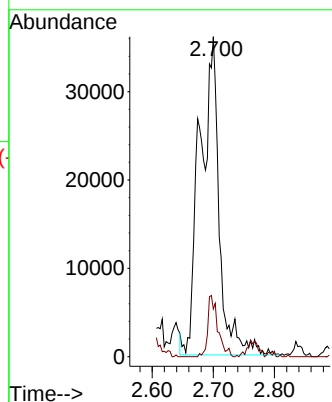
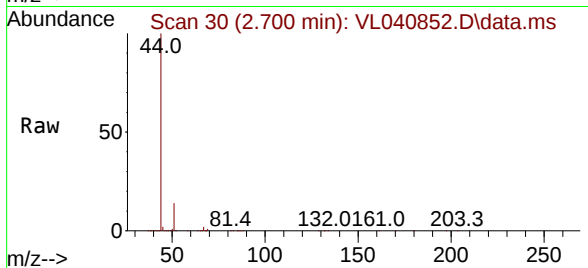
ClientSampleId :

Tgt Ion: 51 Resp: 79714

Ion Ratio Lower Upper

51 100

67 9.9 15.0 22.4#



#4

Chloromethane

Concen: 0.469 ppbv

RT: 2.835 min Scan# 72

Delta R.T. 0.029 min

Lab File: VL040852.D

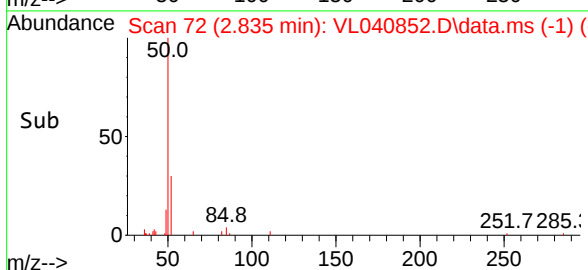
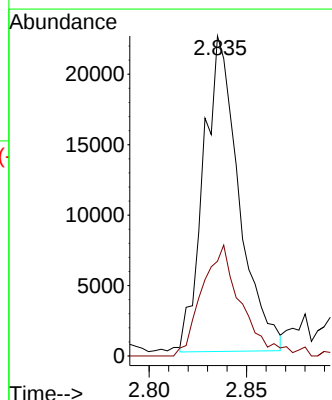
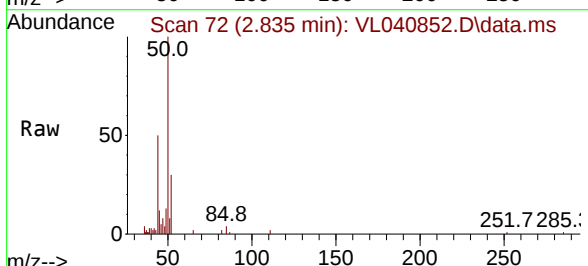
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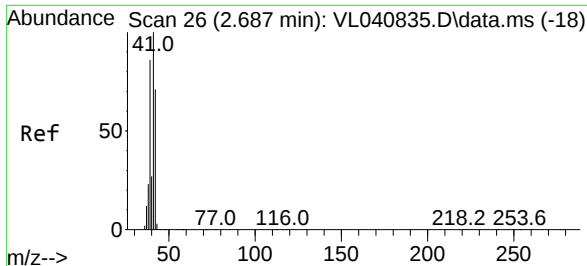
Tgt Ion: 50 Resp: 28333

Ion Ratio Lower Upper

50 100

52 27.9 26.5 39.7

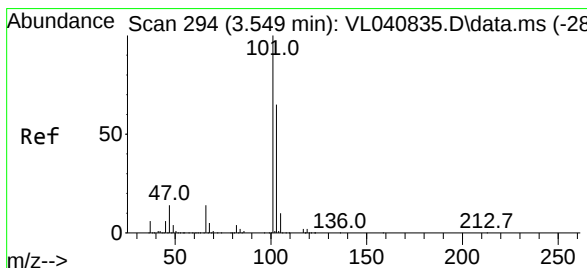
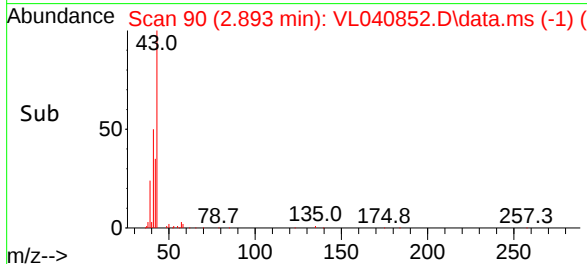
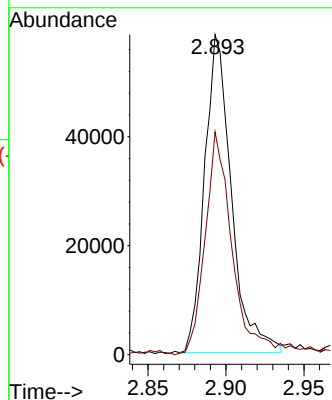
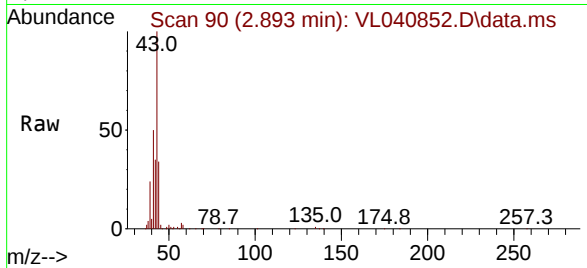




#9
Propene
Concen: 1.237 ppbv
RT: 2.893 min Scan# 90
Delta R.T. 0.206 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

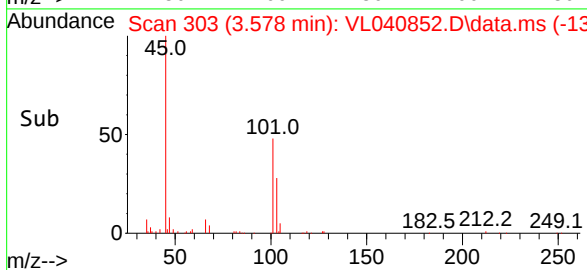
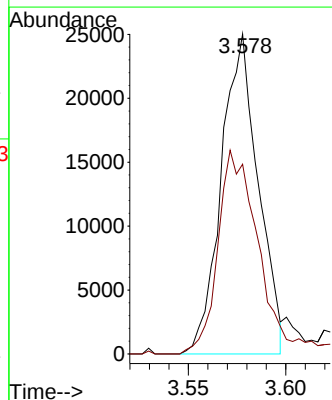
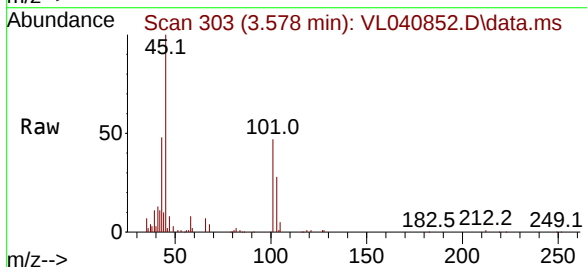
Instrument :
MSVOA_L
ClientSampleId :

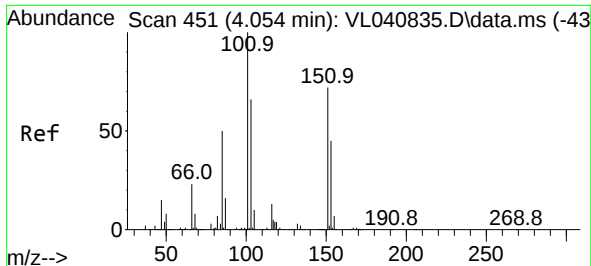
Tgt Ion: 41 Resp: 70055
Ion Ratio Lower Upper
41 100
42 74.2 56.5 84.7



#11
Trichlorofluoromethane
Concen: 0.201 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.029 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

Tgt Ion: 101 Resp: 32979
Ion Ratio Lower Upper
101 100
103 59.3 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.056 ppbv

RT: 4.073 min Scan# 4

Delta R.T. 0.019 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

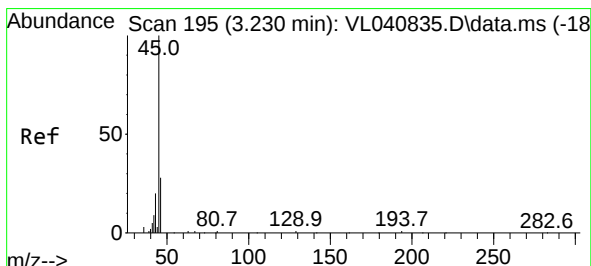
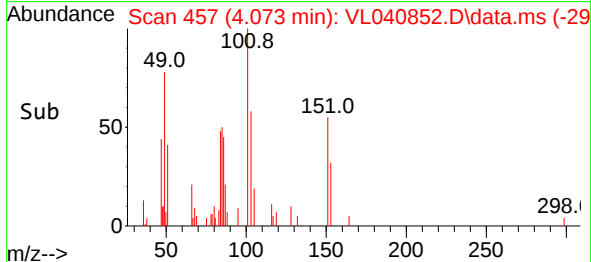
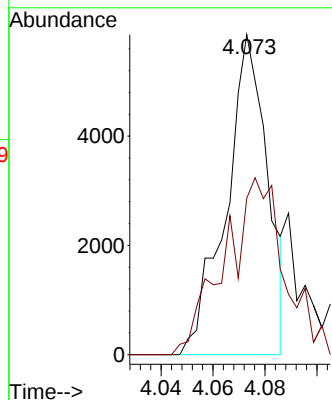
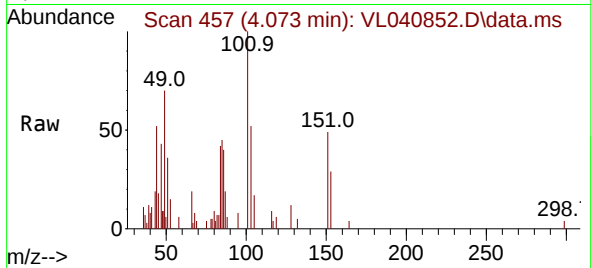
ClientSampleId :

Tgt Ion:101 Resp: 6490

Ion Ratio Lower Upper

101 100

151 84.9 57.8 86.6



#13

Ethanol

Concen: 37.239 ppbv

RT: 3.256 min Scan# 203

Delta R.T. 0.026 min

Lab File: VL040852.D

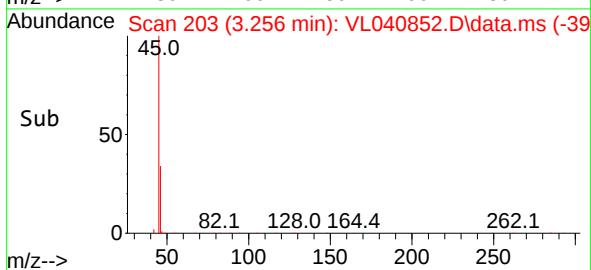
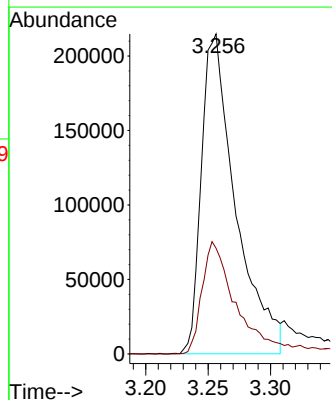
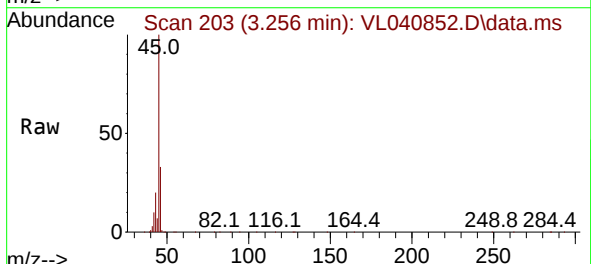
Acq: 14 Nov 2023 15:58

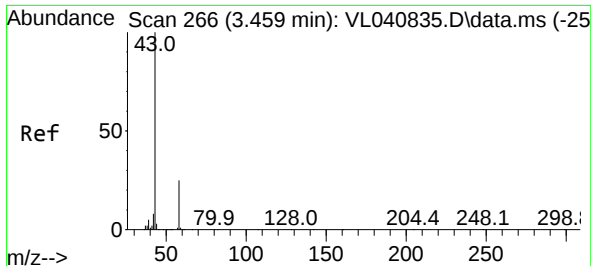
Tgt Ion: 45 Resp: 409669

Ion Ratio Lower Upper

45 100

46 39.0 0.0 0.0#

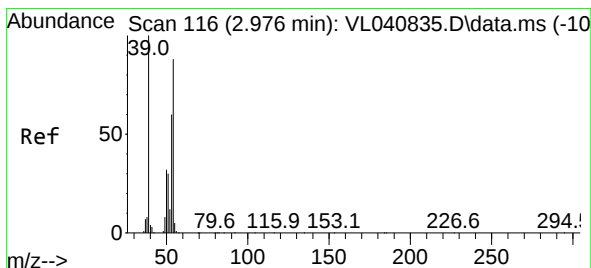
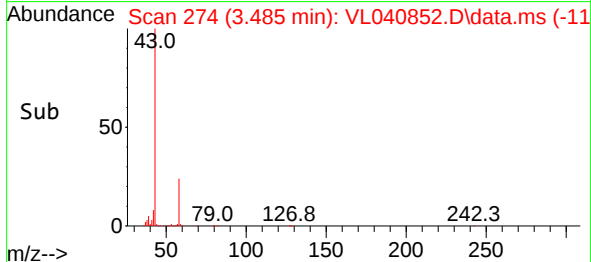
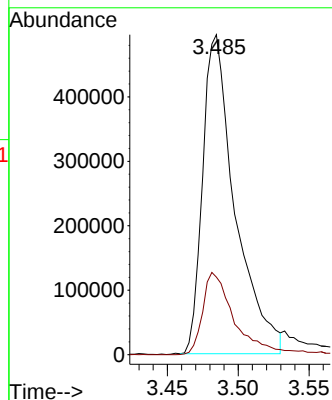
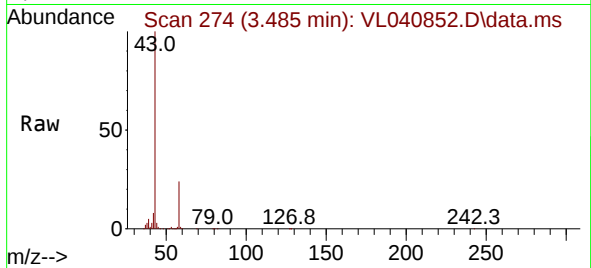




#15
Acetone
Concen: 7.031 ppbv
RT: 3.485 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

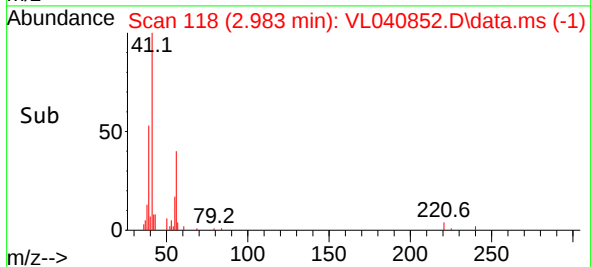
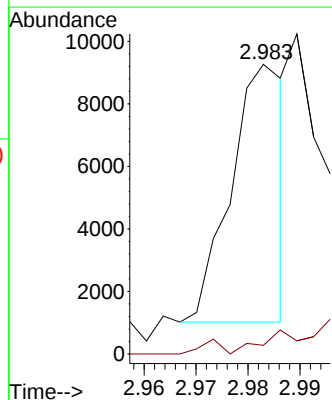
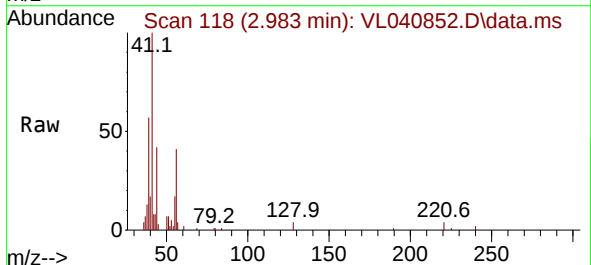
Instrument :
MSVOA_L
ClientSampleId :

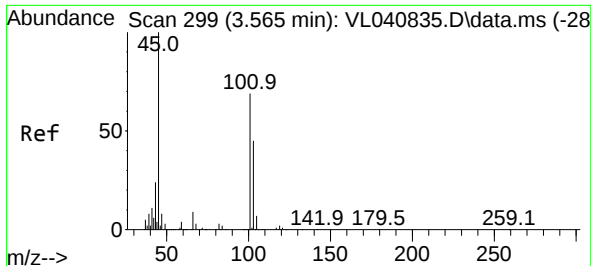
Tgt Ion: 43 Resp: 788525
Ion Ratio Lower Upper
43 100
58 26.0 20.9 31.3



#16
1,3-Butadiene
Concen: 0.103 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.007 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

Tgt Ion: 39 Resp: 5841
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#19

Isopropyl Alcohol

Concen: 6.612 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.026 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

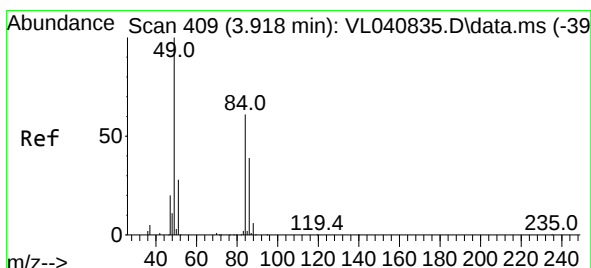
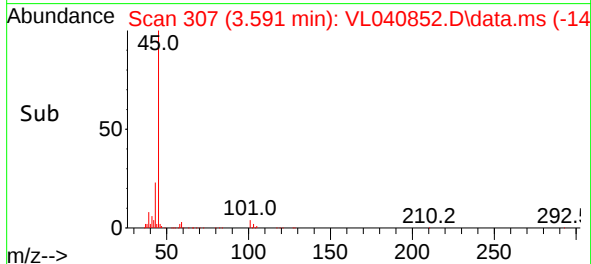
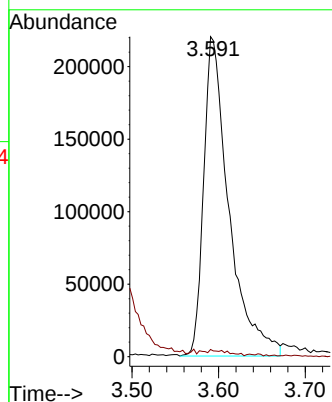
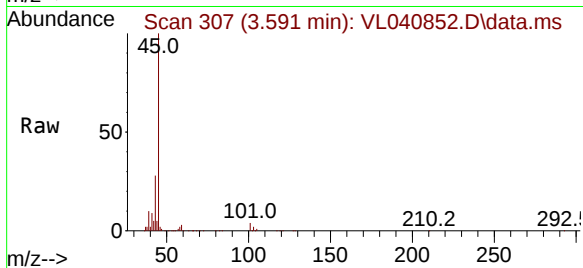
ClientSampleId :

Tgt Ion: 45 Resp: 446229

Ion Ratio Lower Upper

45 100

58 49.2 1.6 2.4#



#20

Methylene Chloride

Concen: 17.468 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.023 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Tgt Ion: 84 Resp: 808391

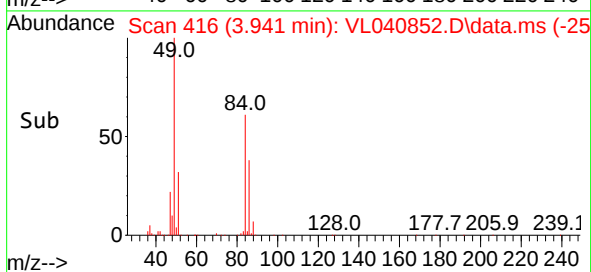
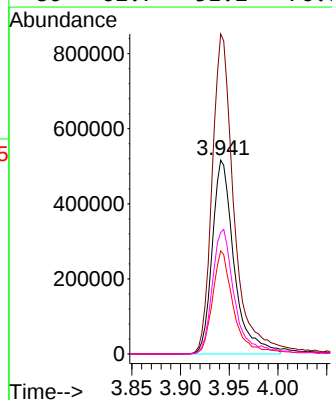
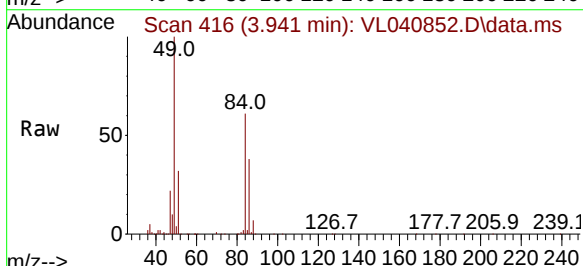
Ion Ratio Lower Upper

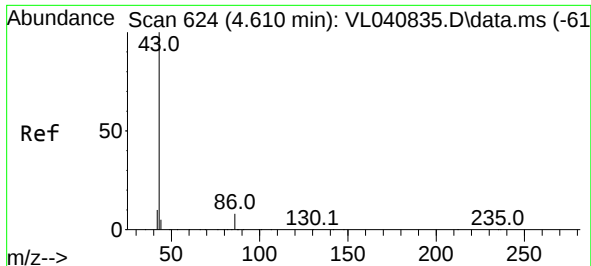
84 100

49 165.1 131.0 196.4

51 53.2 36.9 55.3

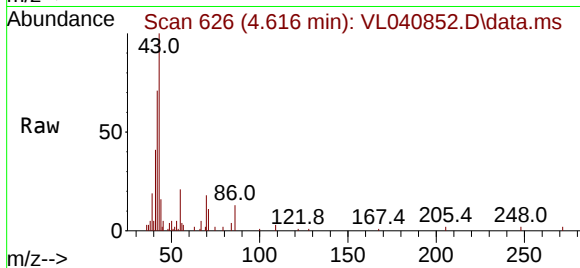
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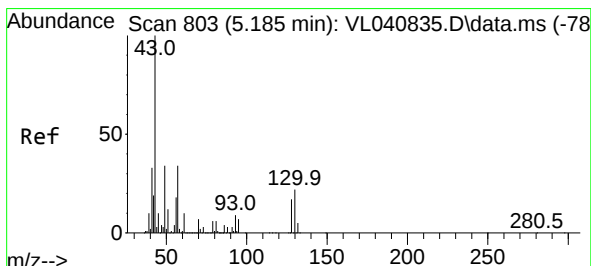
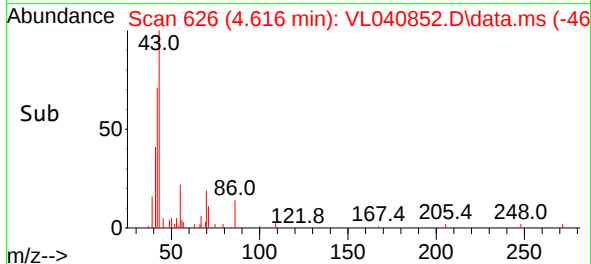
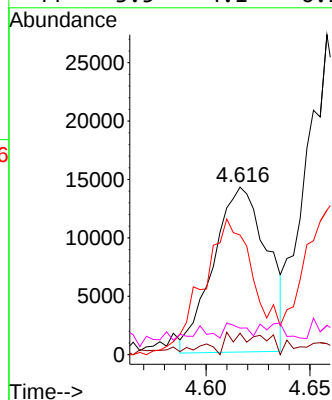


#23
 Vinyl Acetate
 Concen: 0.175 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: VL040852.D
 Acq: 14 Nov 2023 15:58

Instrument :
 MSVOA_L
 ClientSampleId :

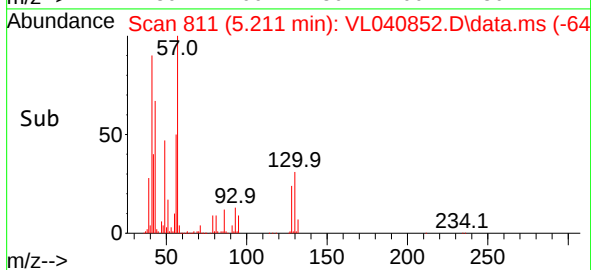
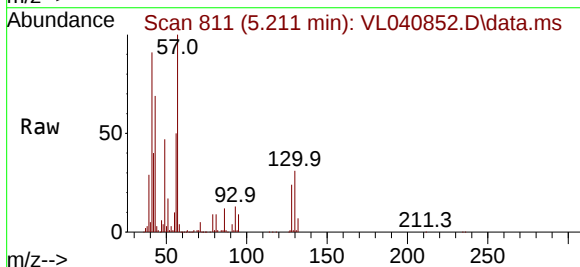
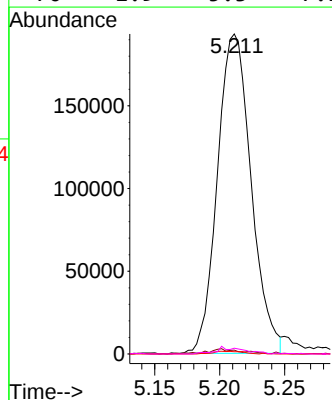


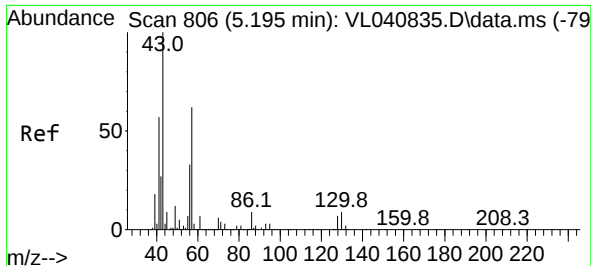
Tgt Ion:	43	Resp:	25303
Ion	Ratio	Lower	Upper
43	100		
86	14.1	5.5	8.3#
42	65.2	8.2	12.2#
44	3.5	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 1.501 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.026 min
 Lab File: VL040852.D
 Acq: 14 Nov 2023 15:58

Tgt Ion:	43	Resp:	348616
Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.1	12.1#
61	0.8	7.8	11.6#
70	1.9	5.3	7.9#

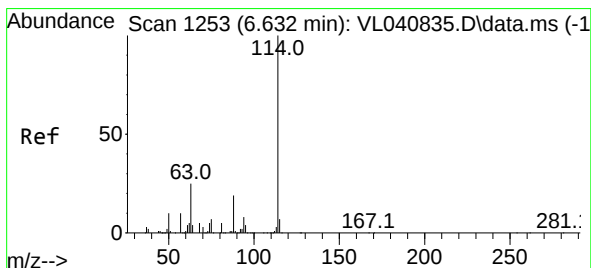
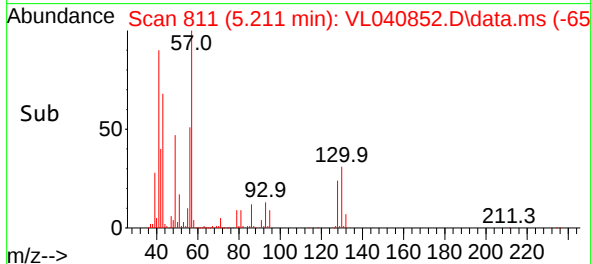
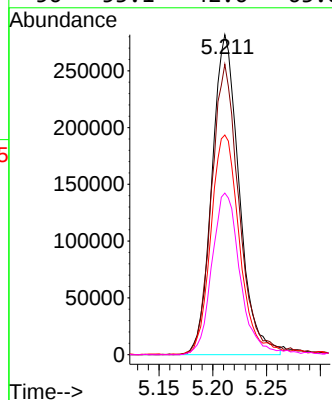
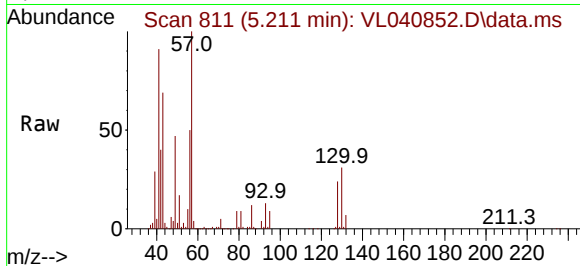




#26
Hexane
Concen: 4.830 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

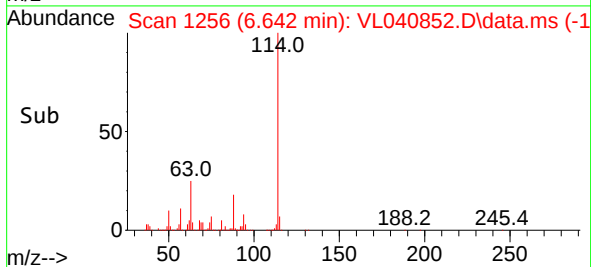
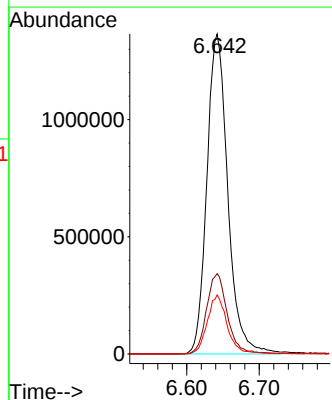
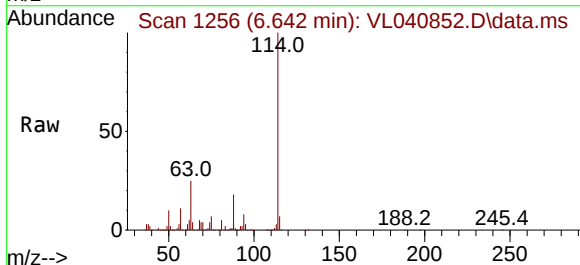
Instrument :
MSVOA_L
ClientSampleId :

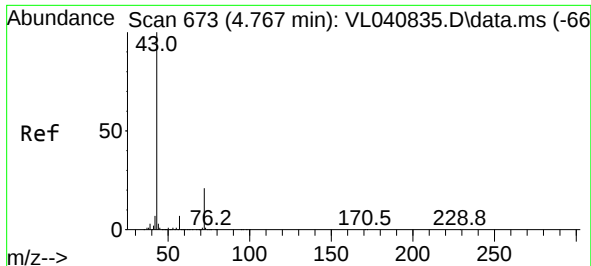
Tgt Ion: 57 Resp: 496369
Ion Ratio Lower Upper
57 100
41 93.5 75.4 113.0
43 73.8 185.9 278.9#
56 53.1 42.6 63.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.010 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

Tgt Ion: 114 Resp: 2736632
Ion Ratio Lower Upper
114 100
63 25.1 20.9 31.3
88 17.7 14.3 21.5

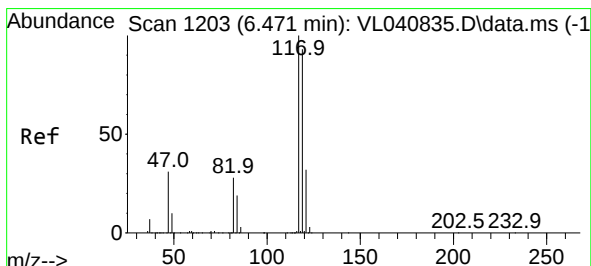
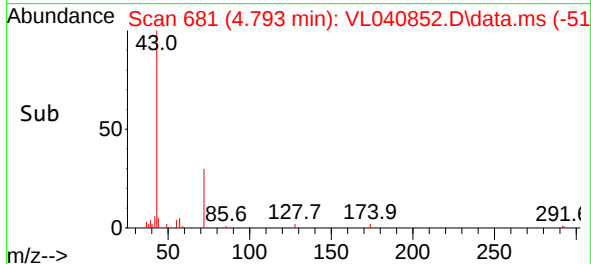
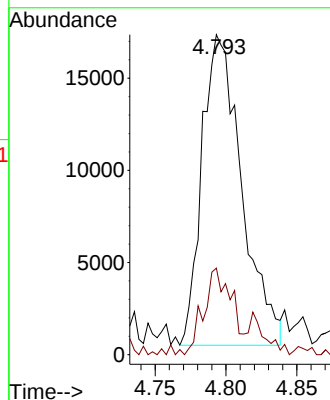
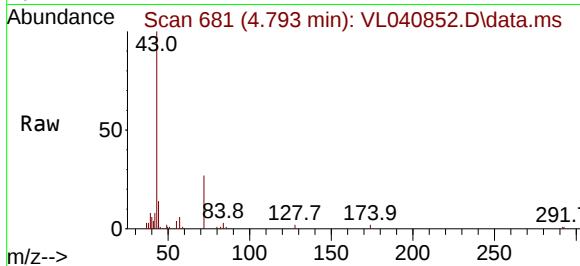




#34
2-Butanone
Concen: 0.236 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

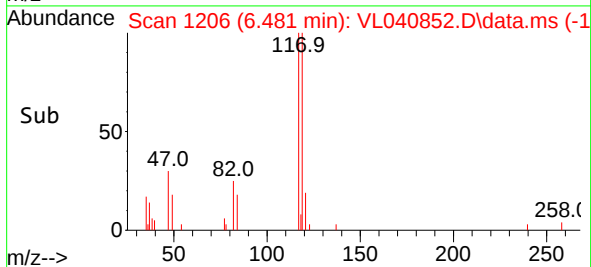
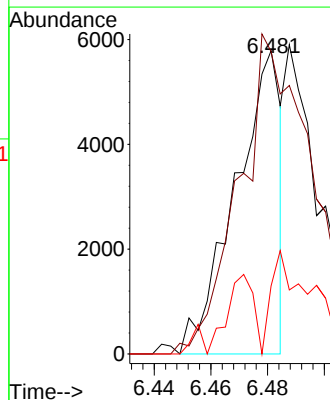
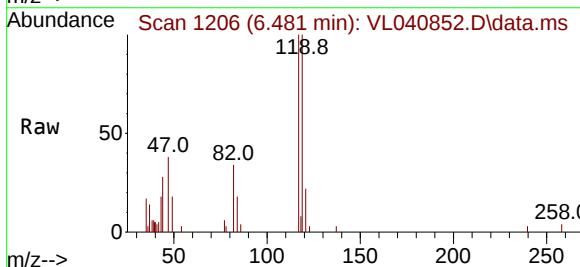
Instrument :
MSVOA_L
ClientSampleId :

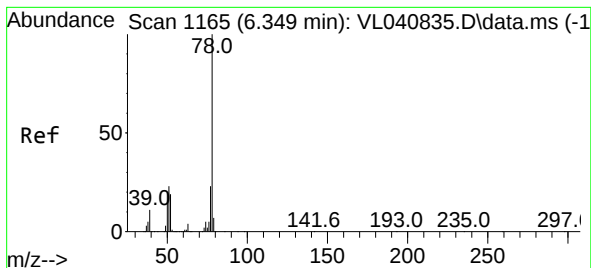
Tgt Ion: 43 Resp: 32850
Ion Ratio Lower Upper
43 100
72 26.9 17.2 25.8#



#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

Tgt Ion: 117 Resp: 6424
Ion Ratio Lower Upper
117 100
119 96.2 74.7 112.1
121 22.4 25.5 38.3#





#36

Benzene

Concen: 0.464 ppbv

RT: 6.359 min Scan# 1165

Delta R.T. 0.010 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

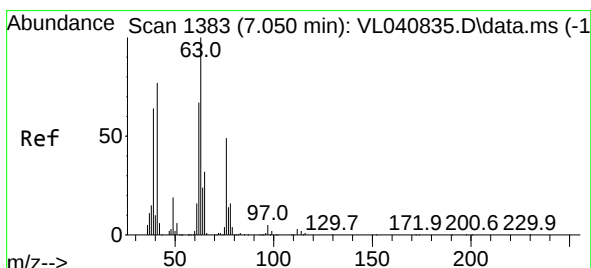
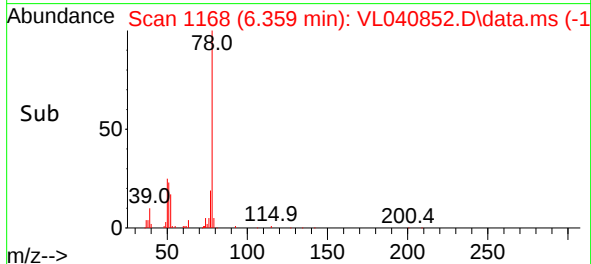
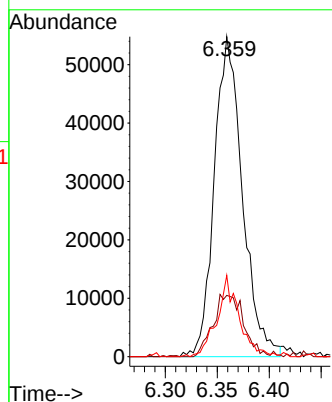
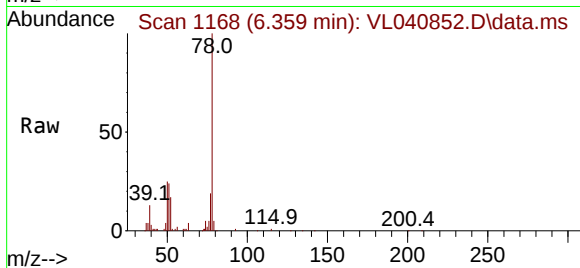
Tgt Ion: 78 Resp: 103143

Ion Ratio Lower Upper

78 100

77 19.2 18.4 27.6

50 25.4 16.2 24.2#



#39

1,2-Dichloropropane

Concen: 7.581 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.408 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

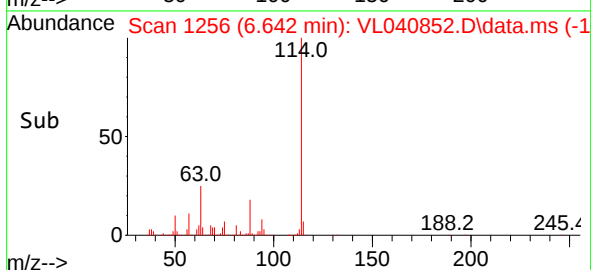
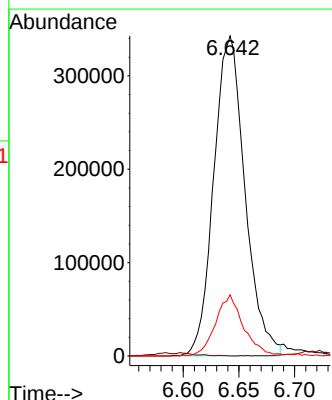
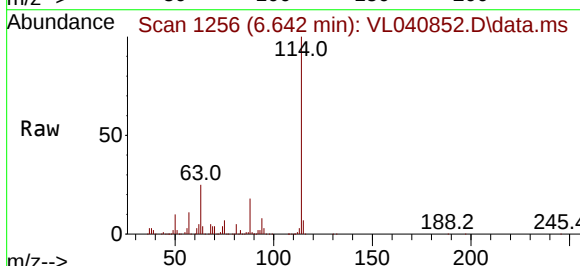
Tgt Ion: 63 Resp: 667571

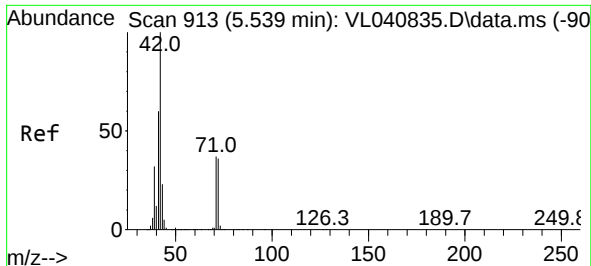
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 19.0 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.035 ppbv

RT: 5.803 min Scan# 913

Delta R.T. 0.264 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

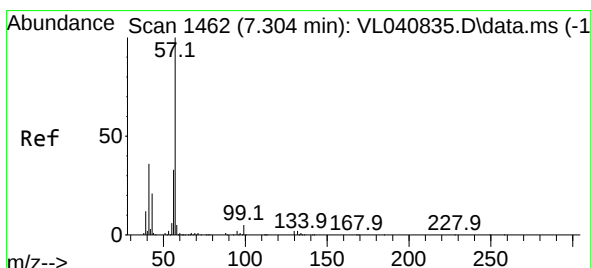
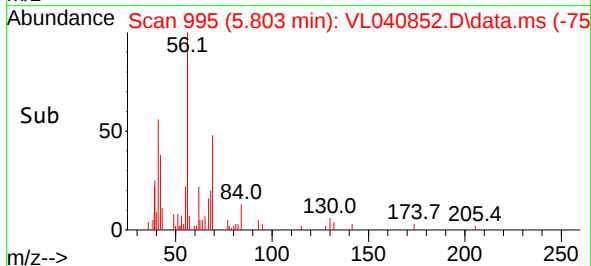
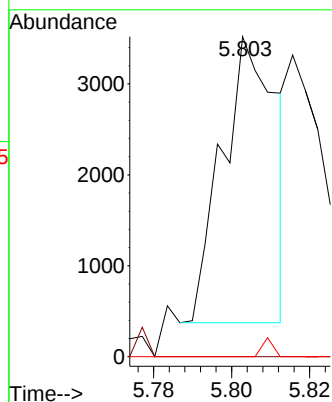
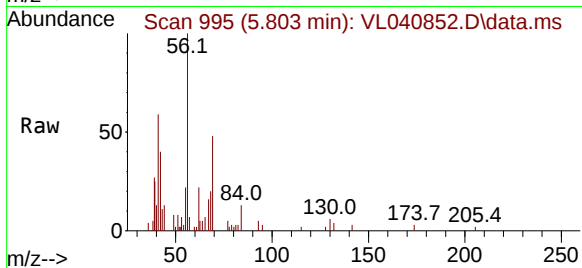
Tgt Ion: 42 Resp: 3009

Ion Ratio Lower Upper

42 100

72 6.1 30.8 46.2#

71 0.0 30.0 45.0#



#44

2,2,4-Trimethylpentane

Concen: 0.130 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. 0.010 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

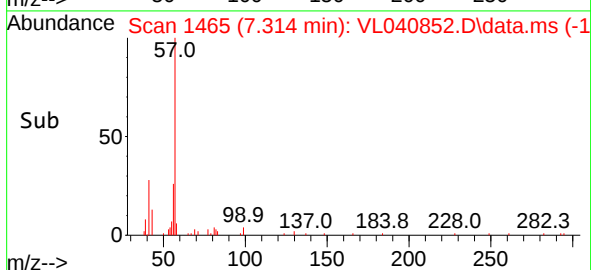
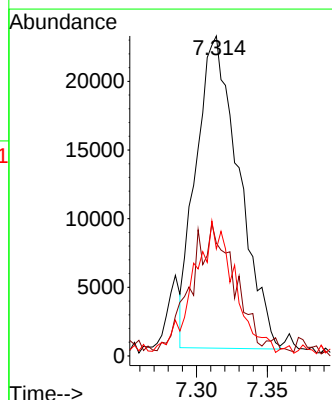
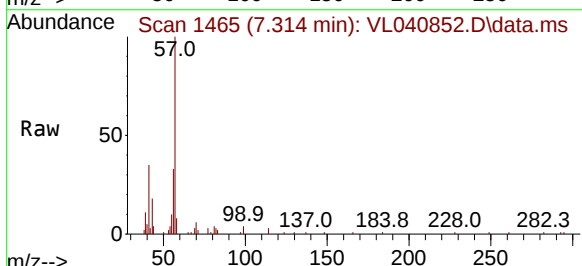
Tgt Ion: 57 Resp: 47806

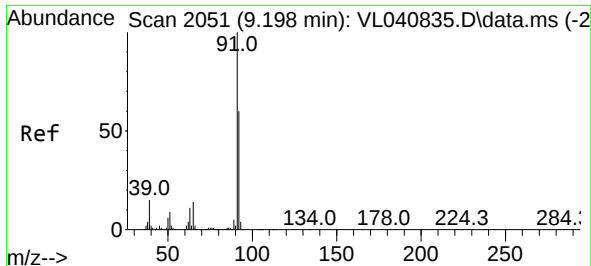
Ion Ratio Lower Upper

57 100

41 48.2 29.0 43.6#

56 45.7 25.2 37.8#

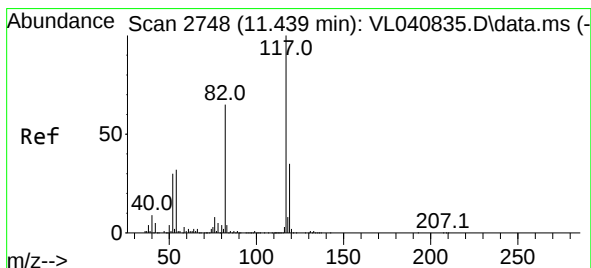
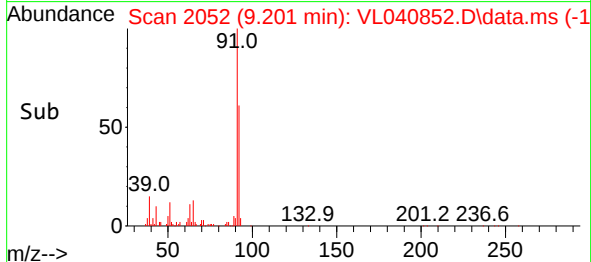
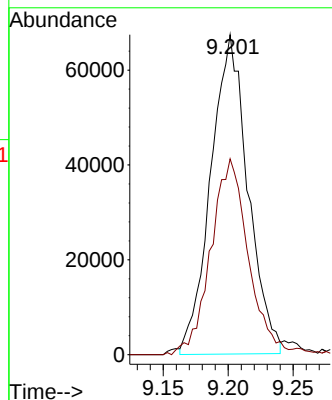
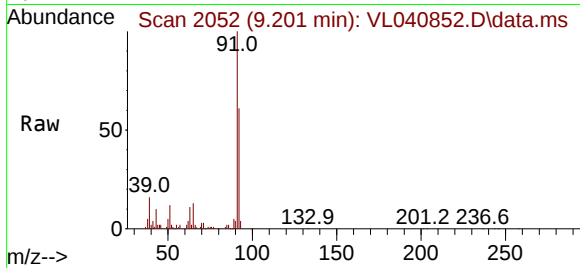




#53
Toluene
Concen: 0.548 ppbv
RT: 9.201 min Scan# 2051
Delta R.T. 0.003 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

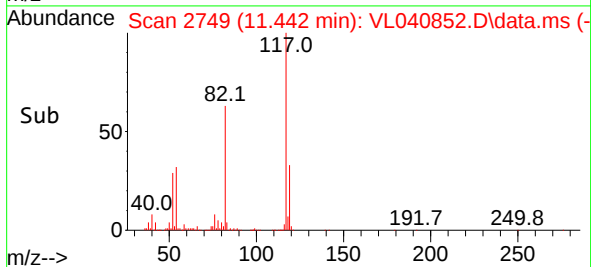
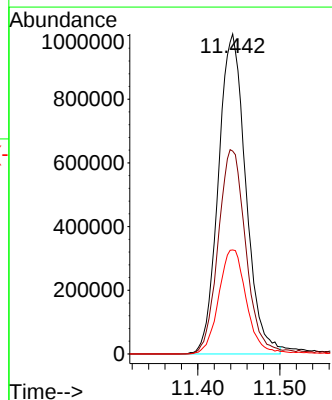
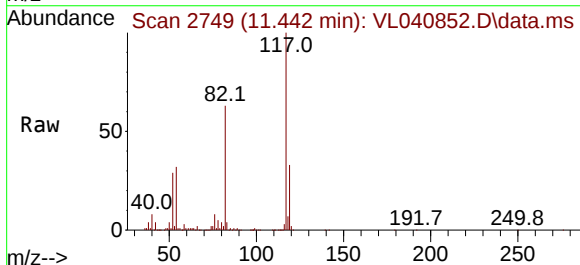
Instrument :
MSVOA_L
ClientSampleId :

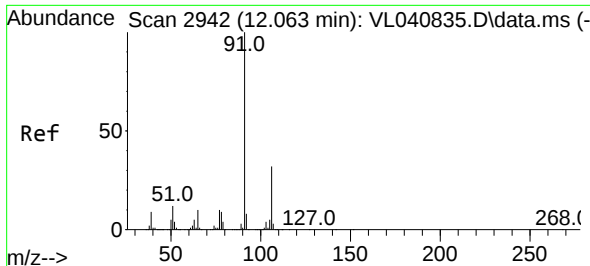
Tgt Ion: 91 Resp: 133861
Ion Ratio Lower Upper
91 100
92 62.8 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. 0.003 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

Tgt Ion: 117 Resp: 2328665
Ion Ratio Lower Upper
117 100
82 65.9 50.6 75.8
119 33.7 23.3 34.9

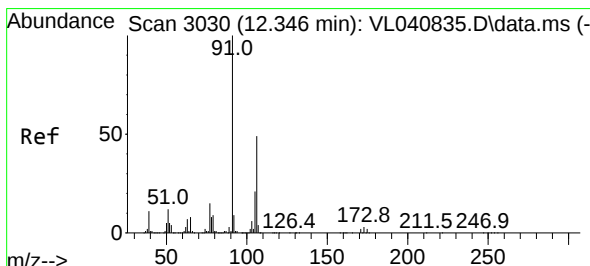
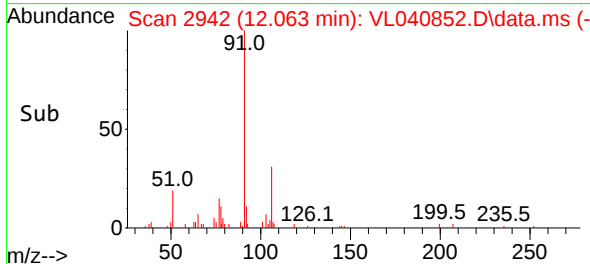
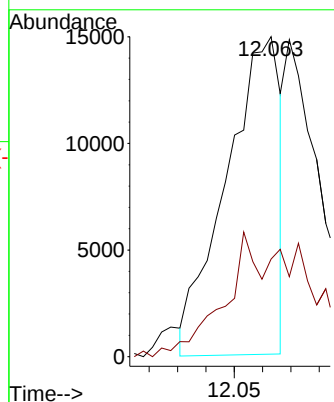
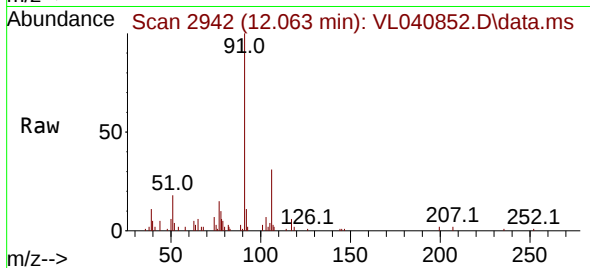




#58
Ethyl Benzene
Concen: 0.065 ppbv
RT: 12.063 min Scan# 2942
Delta R.T. 0.000 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

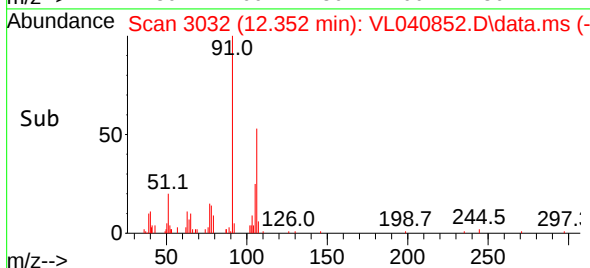
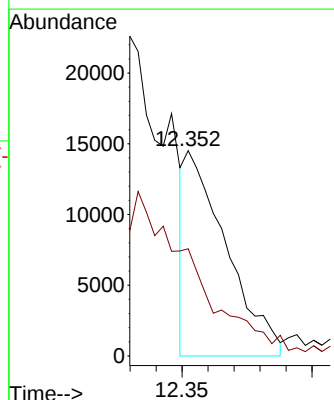
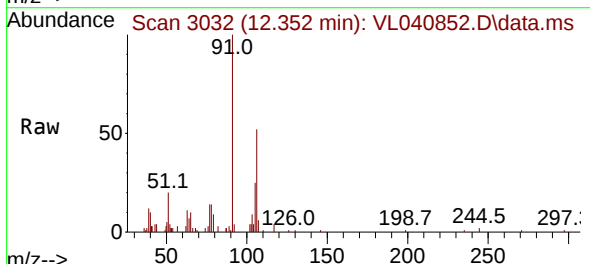
Instrument :
MSVOA_L
ClientSampleId :

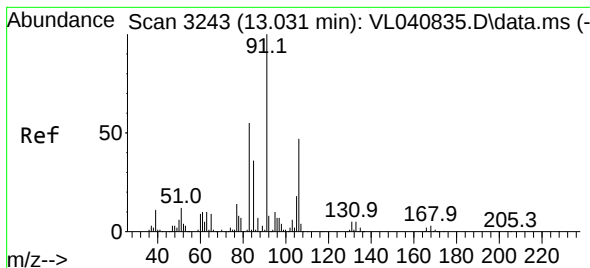
Tgt Ion: 91 Resp: 19706
Ion Ratio Lower Upper
91 100
106 28.3 25.2 37.8



#59
m/p-Xylene
Concen: 0.062 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. 0.007 min
Lab File: VL040852.D
Acq: 14 Nov 2023 15:58

Tgt Ion: 91 Resp: 16049
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#





#60

o-Xylene

Concen: 0.058 ppbv

RT: 13.034 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

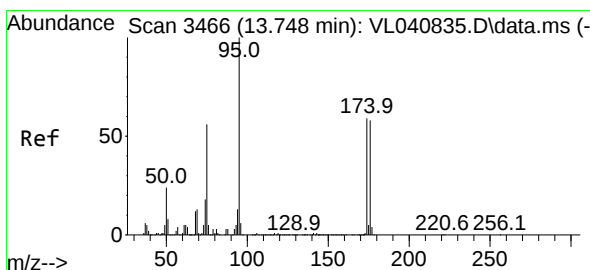
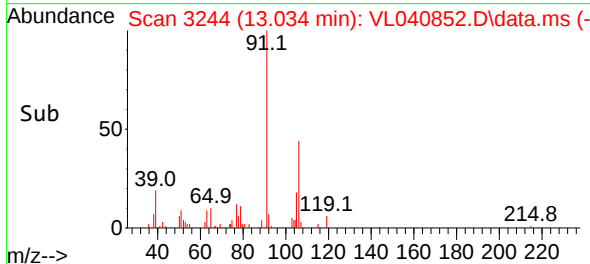
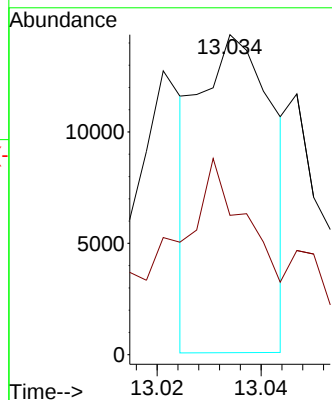
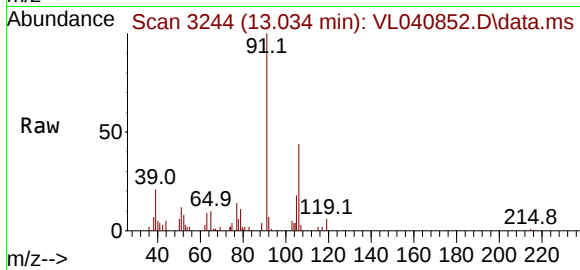
ClientSampleId :

Tgt Ion: 91 Resp: 14208

Ion Ratio Lower Upper

91 100

106 113.2 22.9 68.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.774 ppbv

RT: 13.748 min Scan# 3466

Delta R.T. 0.000 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

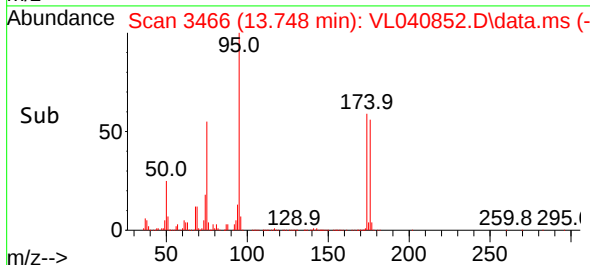
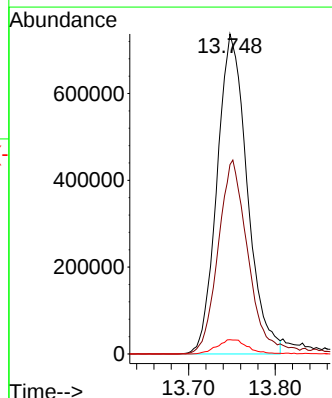
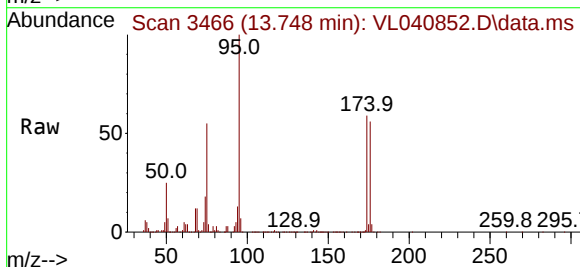
Tgt Ion: 95 Resp: 1782012

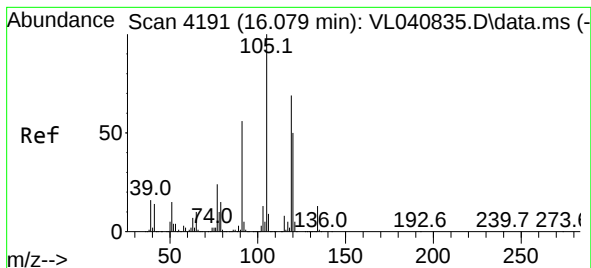
Ion Ratio Lower Upper

95 100

174 62.0 47.5 71.3

175 4.7 3.6 5.4





#74

1,2,4-Trimethylbenzene

Concen: 0.117 ppbv

RT: 16.085 min Scan# 4191

Delta R.T. 0.007 min

Lab File: VL040852.D

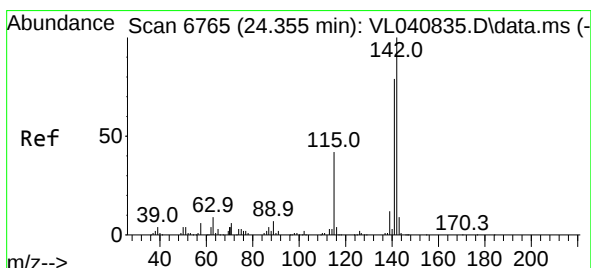
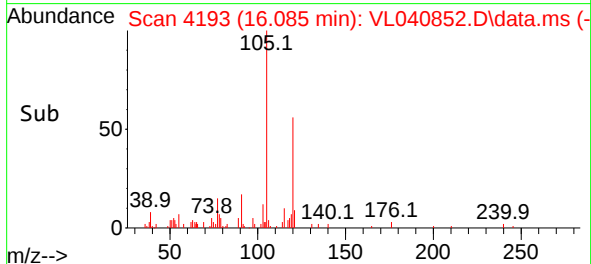
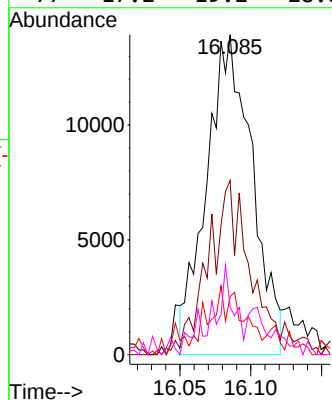
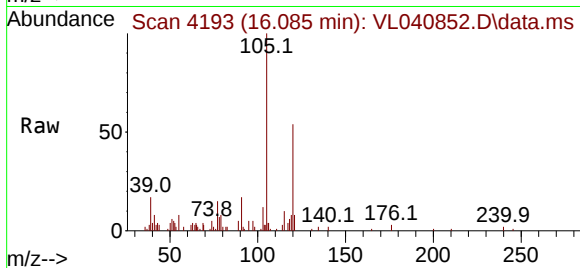
Acq: 14 Nov 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	105	Resp:	31179
Ion	Ratio	Lower	Upper
105	100		
120	70.6	40.2	60.2#
91	16.7	45.7	68.5#
77	17.2	19.2	28.8#



#80

Naphthalene,2-methyl-

Concen: 0.039 ppbv

RT: 24.394 min Scan# 6777

Delta R.T. 0.039 min

Lab File: VL040852.D

Acq: 14 Nov 2023 15:58

Tgt Ion:	142	Resp:	934
Ion	Ratio	Lower	Upper
142	100		
141	37.0	65.8	98.8#
115	46.4	35.6	53.4

