

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040712.D
 Acq On : 18 Sep 2023 23:42
 Operator : SY/MD
 Sample : 04468-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Sep 19 05:23:57 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)

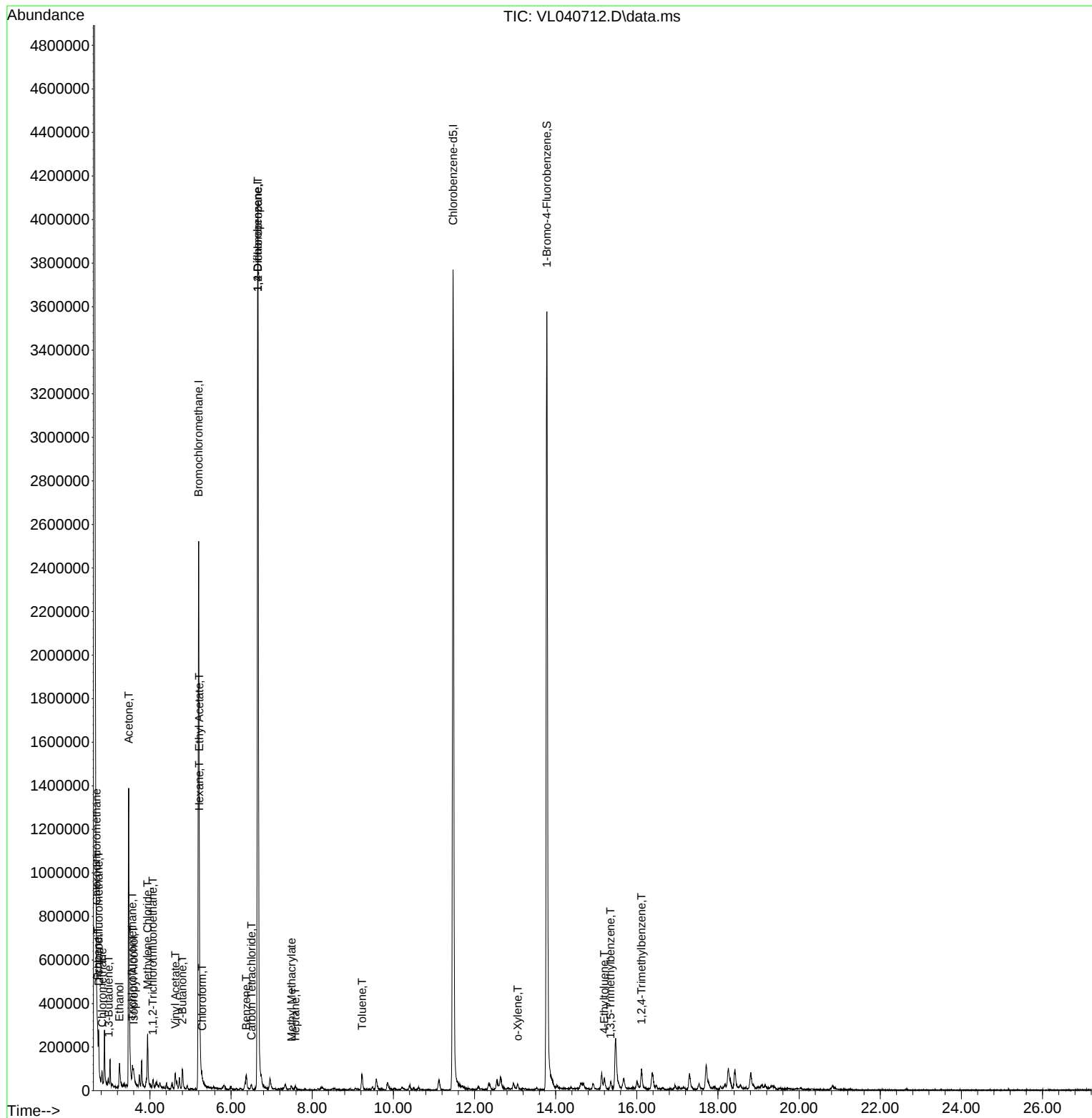
Internal Standards						
1) Bromochloromethane	5.202	49	1065256	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3100021	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2486222	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1838950	9.573	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	117424	0.500	ppbv	99
3) Chlorodifluoromethane	2.681	51	64202	0.370	ppbv #	87
4) Chloromethane	2.822	50	46588	0.701	ppbv	91
9) Propene	2.710	41	24869	0.497	ppbv	91
10) Heptane	7.584	43	6246	0.055	ppbv	89
11) Trichlorofluoromethane	3.568	101	45195	0.219	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.073	101	6437	0.044	ppbv #	13
13) Ethanol	3.247	45	118948	8.038	ppbv	94
15) Acetone	3.475	43	1379782	9.820	ppbv	95
16) 1,3-Butadiene	2.980	39	3636	0.059	ppbv	95
19) Isopropyl Alcohol	3.597	45	77511	0.916	ppbv #	93
20) Methylene Chloride	3.944	84	80149	1.060	ppbv	93
23) Vinyl Acetate	4.626	43	62452	0.430	ppbv #	87
25) Ethyl Acetate	5.214	43	33978	0.150	ppbv #	92
26) Hexane	5.218	57	86574	0.808	ppbv #	48
29) Chloroform	5.285	83	9056	0.049	ppbv	86
34) 2-Butanone	4.800	43	108536	0.696	ppbv	93
35) Carbon Tetrachloride	6.504	117	8064	0.038	ppbv #	62
36) Benzene	6.375	78	45097	0.196	ppbv	97
39) 1,2-Dichloropropane	6.661	63	752927	8.521	ppbv #	23
43) Methyl Methacrylate	7.488	69	3365	0.039	ppbv #	1
53) Toluene	9.227	91	50002	0.206	ppbv	97
60) o-Xylene	13.063	91	8992	0.035	ppbv #	31
72) 4-Ethyltoluene	15.198	105	19477	0.068	ppbv #	50
73) 1,3,5-Trimethylbenzene	15.352	105	12260	0.048	ppbv	99
74) 1,2,4-Trimethylbenzene	16.114	105	60799	0.195	ppbv #	58

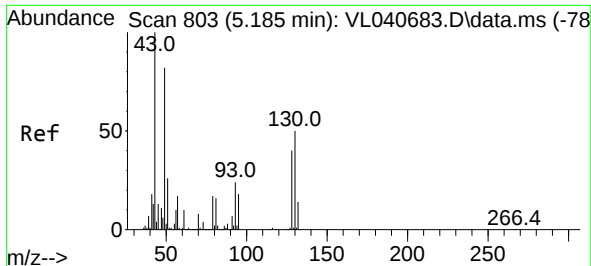
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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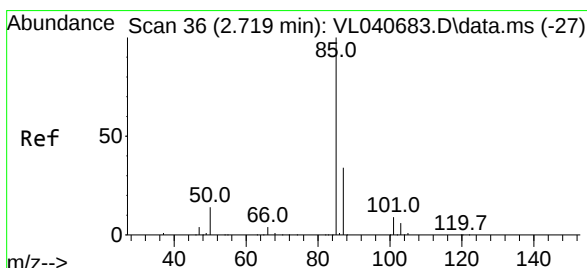
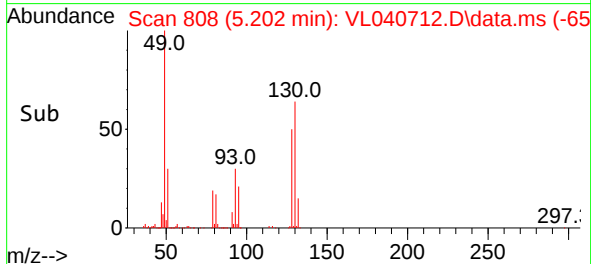
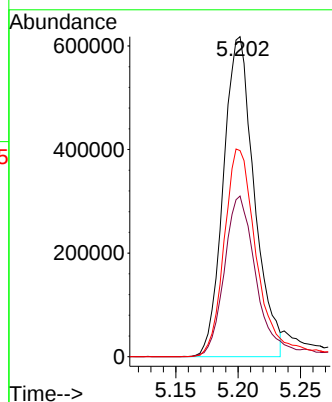
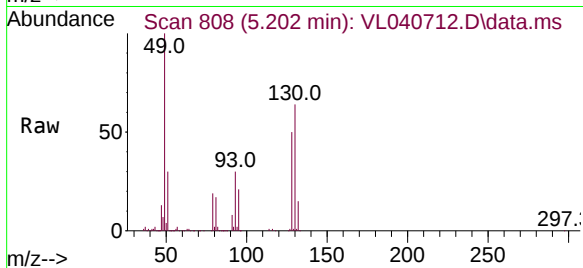




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.202 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL040712.D
 Acq: 18 Sep 2023 23:42

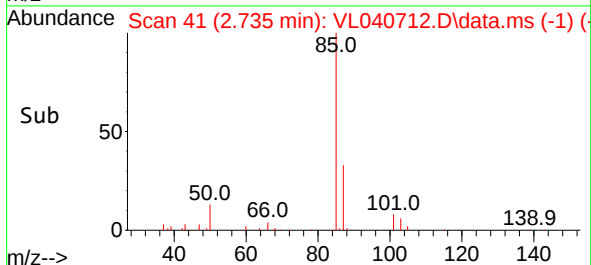
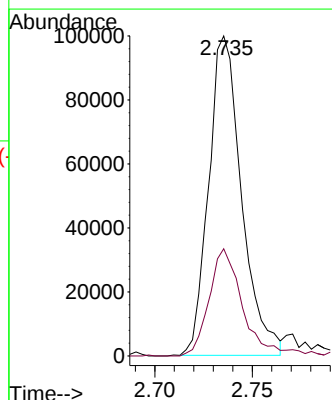
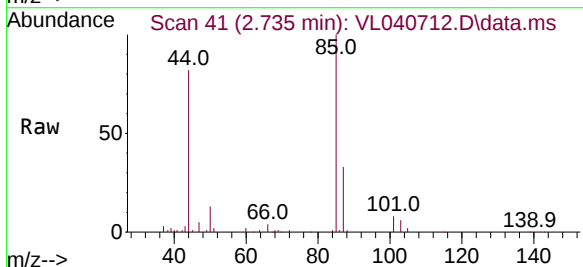
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

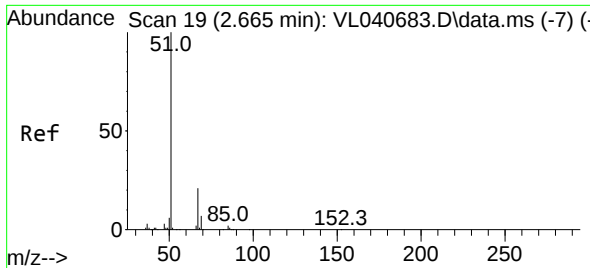
Tgt Ion: 49 Resp: 1065256
 Ion Ratio Lower Upper
 49 100
 128 54.8 25.4 76.0
 130 71.6 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.500 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040712.D
 Acq: 18 Sep 2023 23:42

Tgt Ion: 85 Resp: 117424
 Ion Ratio Lower Upper
 85 100
 87 33.6 27.2 40.8

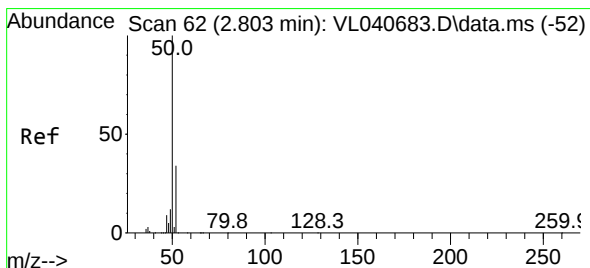
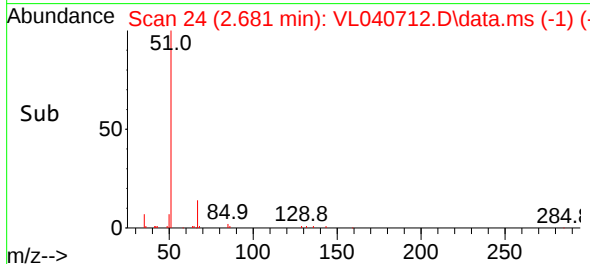
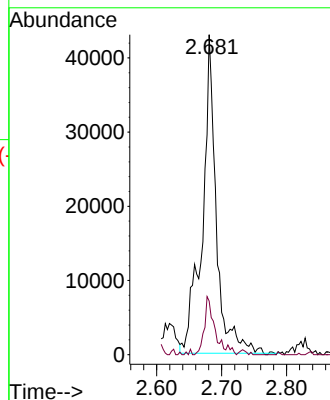
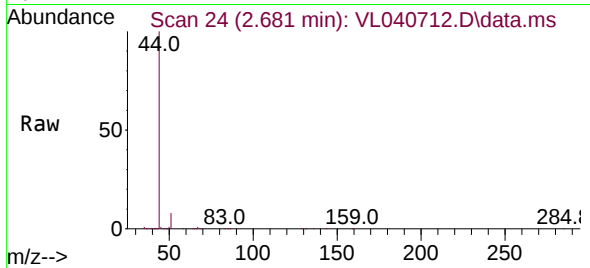




#3
Chlorodifluoromethane
Concen: 0.370 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

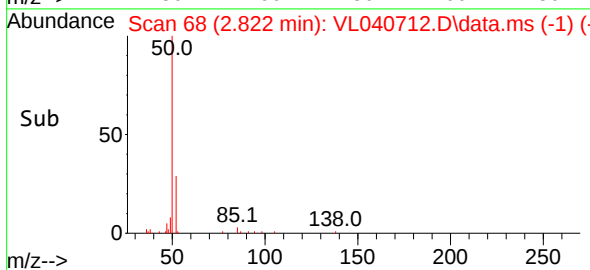
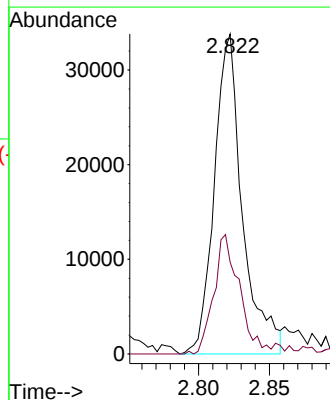
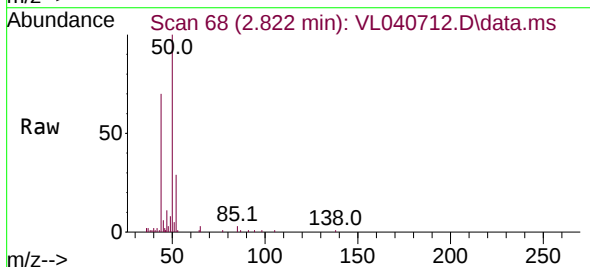
Instrument :
MSVOA_L
ClientSampleId :
OA1

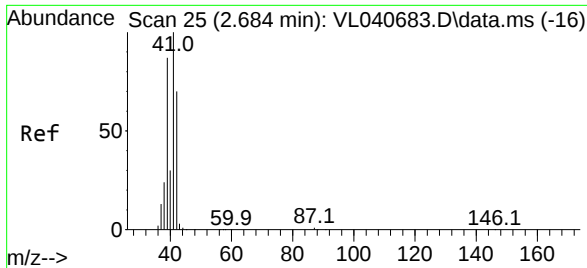
Tgt Ion: 51 Resp: 64202
Ion Ratio Lower Upper
51 100
67 14.7 16.7 25.1#



#4
Chloromethane
Concen: 0.701 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.007 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 50 Resp: 46588
Ion Ratio Lower Upper
50 100
52 28.7 27.1 40.7





#9

Propene

Concen: 0.497 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

Instrument :

MSVOA_1

ClientSampleId :

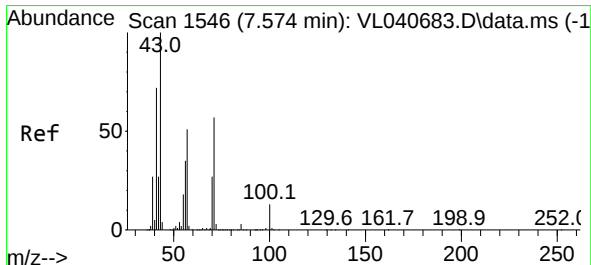
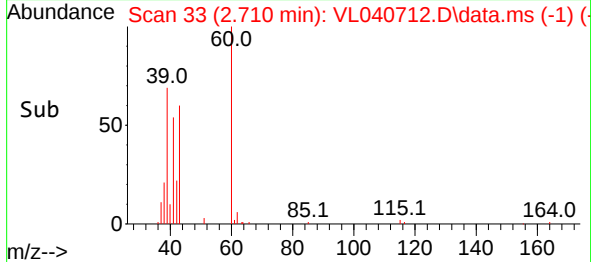
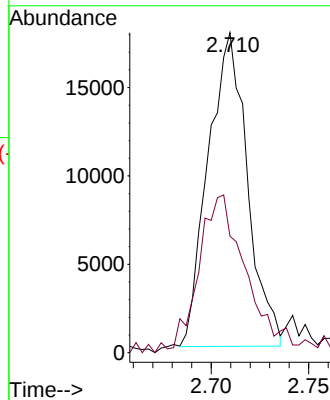
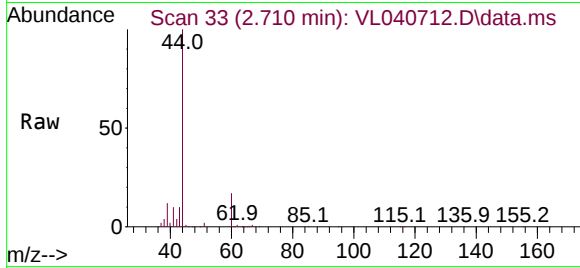
OA1

Tgt Ion: 41 Resp: 24869

Ion Ratio Lower Upper

41 100

42 63.7 56.7 85.1



#10

Heptane

Concen: 0.055 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. -0.003 min

Lab File: VL040712.D

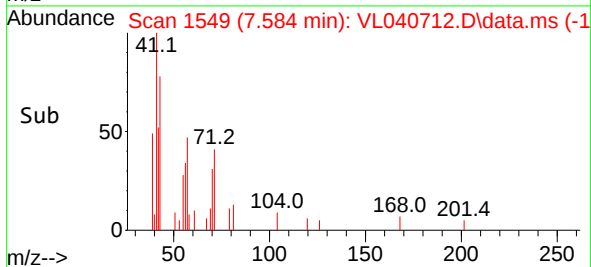
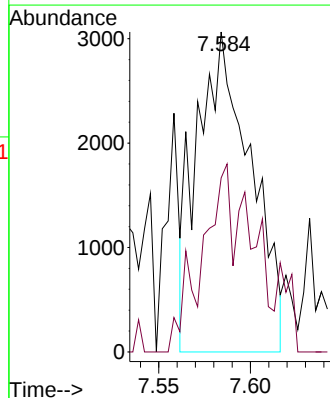
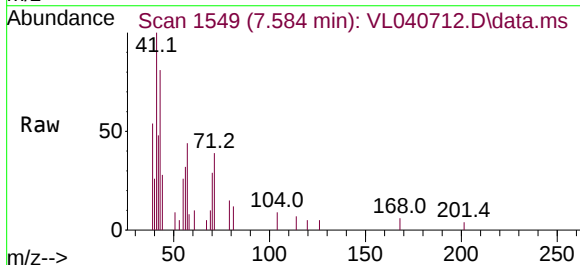
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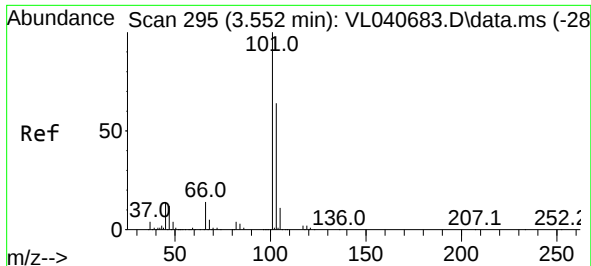
Tgt Ion: 43 Resp: 6246

Ion Ratio Lower Upper

43 100

57 60.2 41.8 62.6

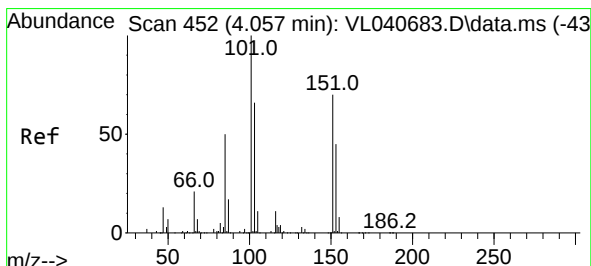
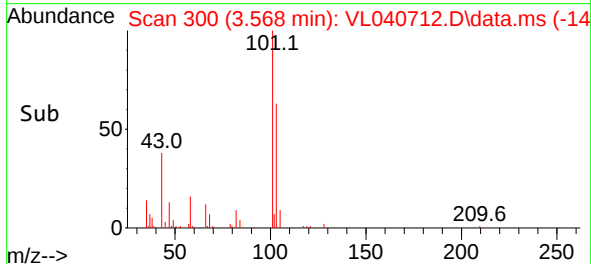
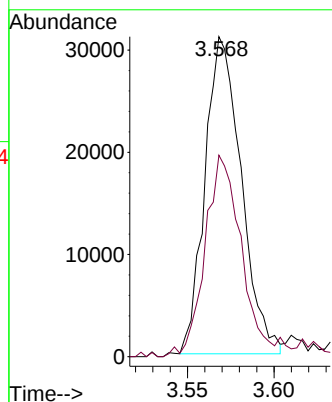
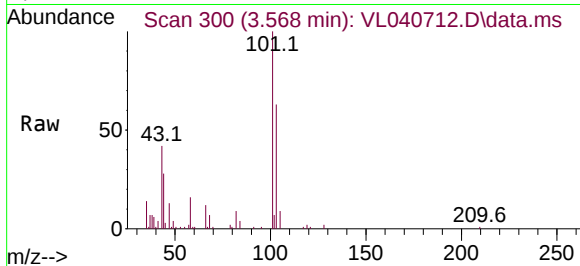




#11
 Trichlorofluoromethane
 Concen: 0.219 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. 0.000 min
 Lab File: VL040712.D
 Acq: 18 Sep 2023 23:42

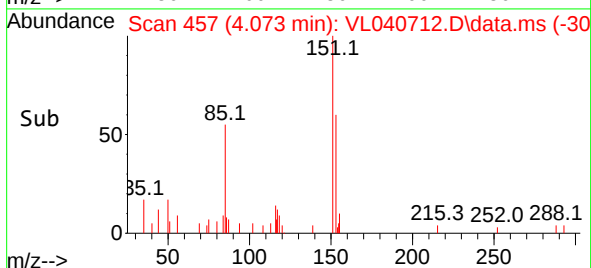
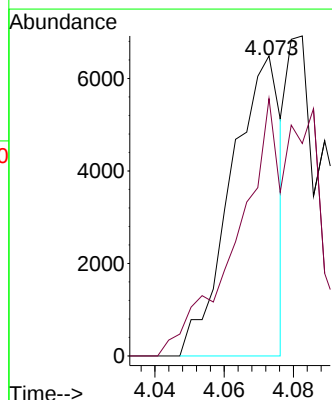
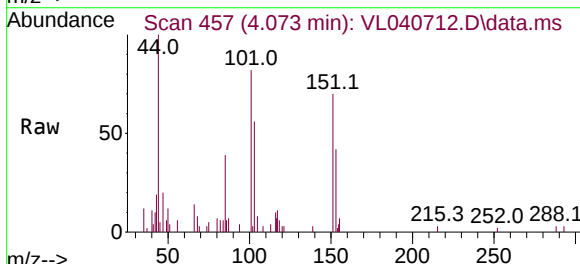
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

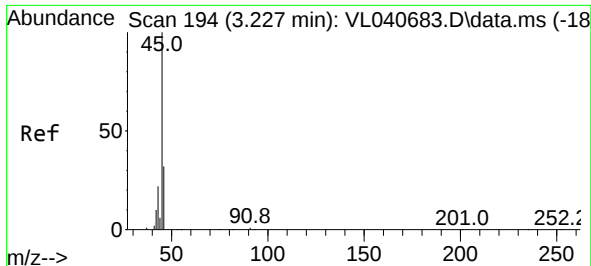
Tgt Ion:101 Resp: 45195
 Ion Ratio Lower Upper
 101 100
 103 62.5 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.044 ppbv
 RT: 4.073 min Scan# 457
 Delta R.T. 0.000 min
 Lab File: VL040712.D
 Acq: 18 Sep 2023 23:42

Tgt Ion:101 Resp: 6437
 Ion Ratio Lower Upper
 101 100
 151 142.9 56.8 85.2#

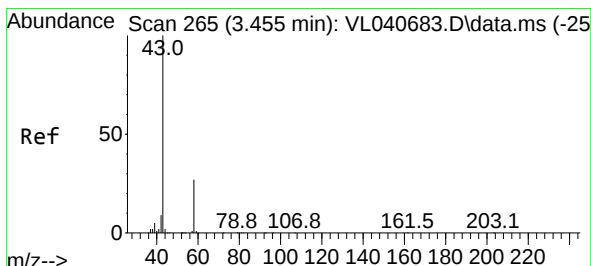
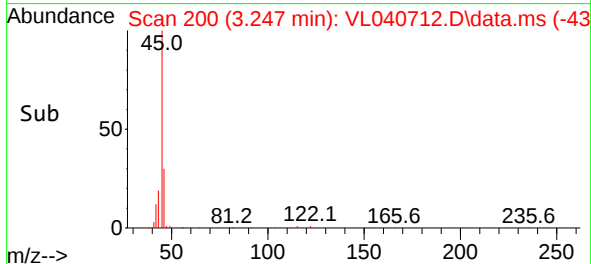
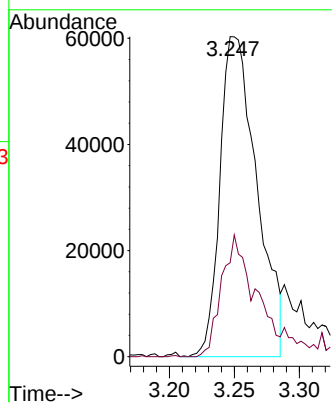
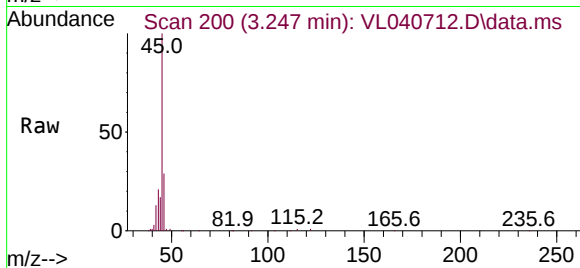




#13
Ethanol
Concen: 8.038 ppbv
RT: 3.247 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

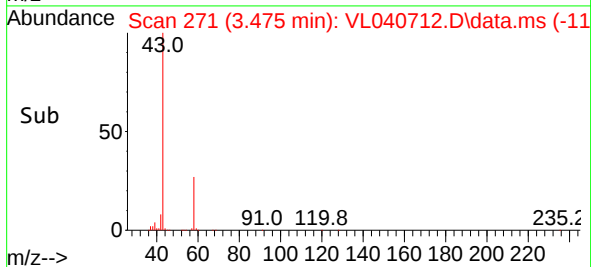
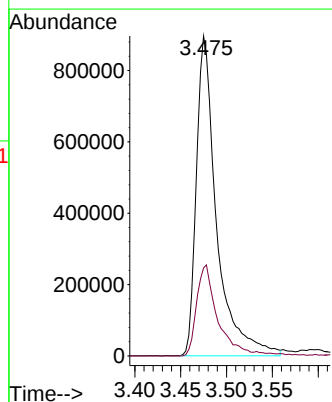
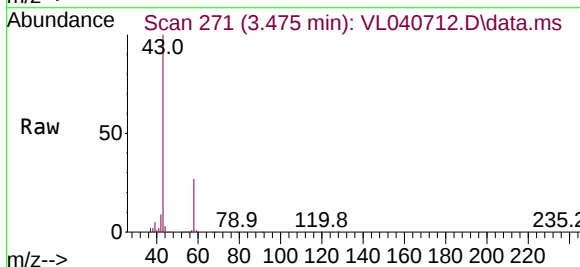
Instrument :
MSVOA_L
ClientSampleId :
OA1

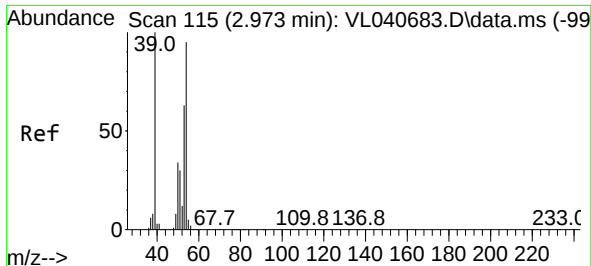
Tgt Ion: 45 Resp: 118948
Ion Ratio Lower Upper
45 100
46 41.9 15.2 61.0



#15
Acetone
Concen: 9.820 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 43 Resp: 1379782
Ion Ratio Lower Upper
43 100
58 31.0 22.6 34.0





#16

1,3-Butadiene

Concen: 0.059 ppbv

RT: 2.980 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

Instrument :

MSVOA_L

ClientSampleId :

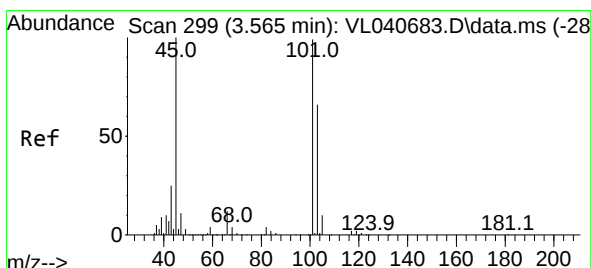
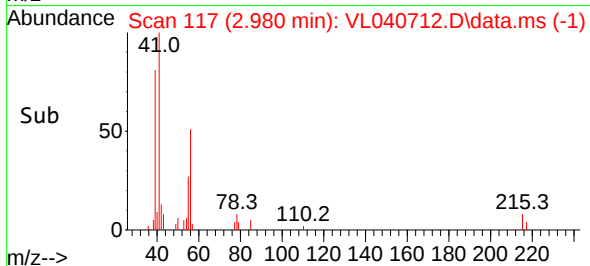
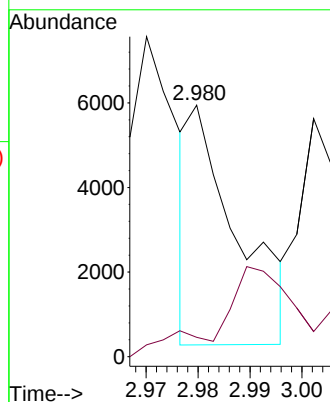
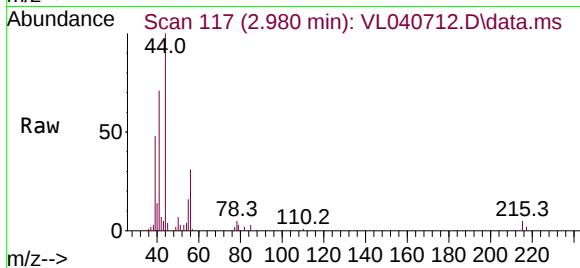
OA1

Tgt Ion: 39 Resp: 3636

Ion Ratio Lower Upper

39 100

54 85.9 64.8 97.2



#19

Isopropyl Alcohol

Concen: 0.916 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.019 min

Lab File: VL040712.D

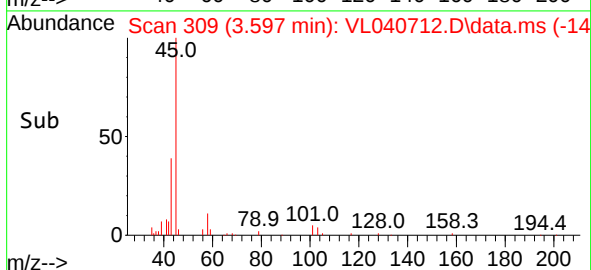
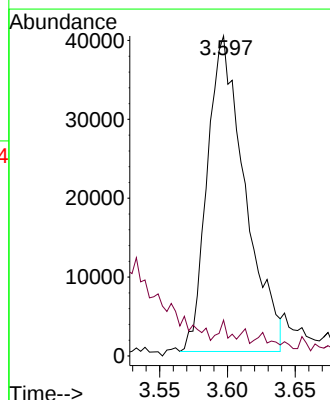
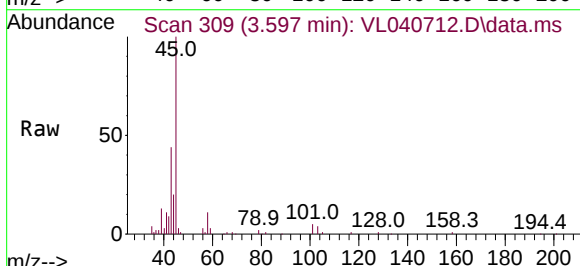
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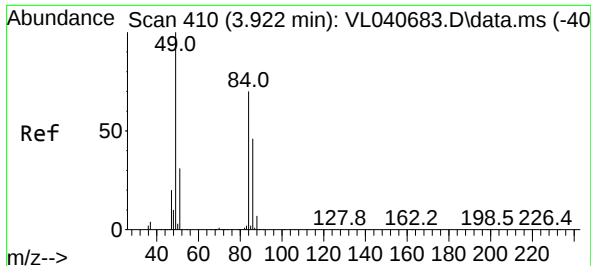
Tgt Ion: 45 Resp: 77511

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#

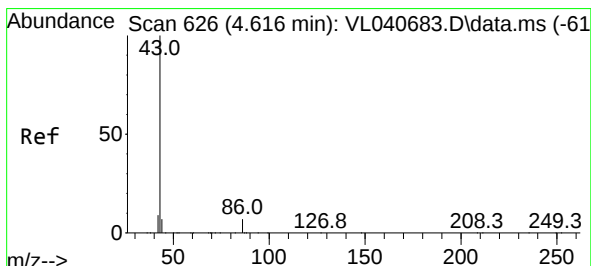
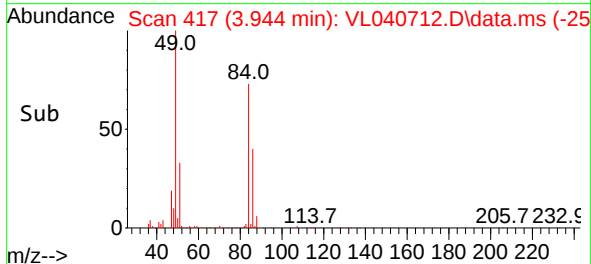
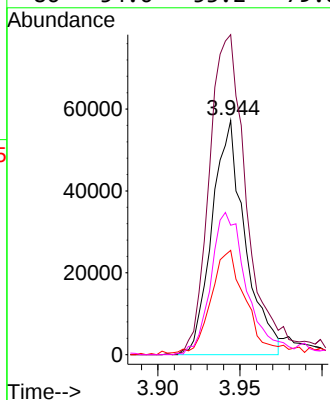
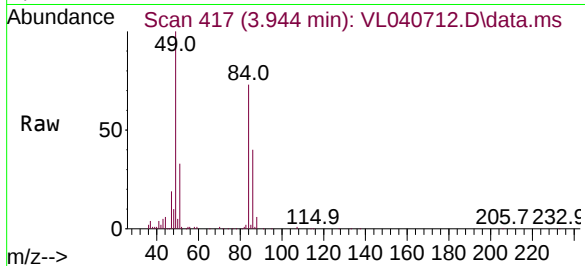




#20
Methylene Chloride
Concen: 1.060 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.007 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

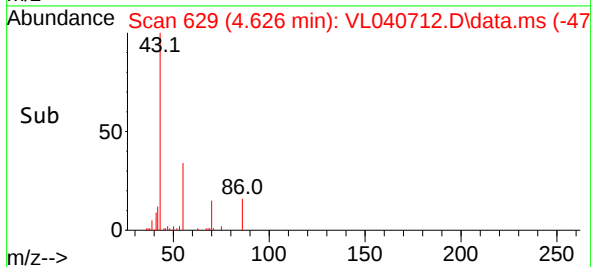
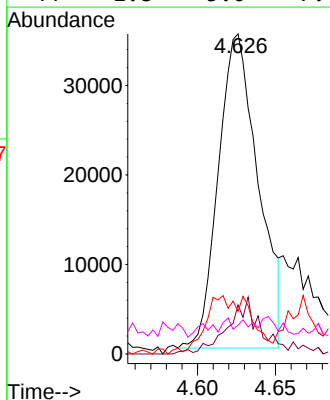
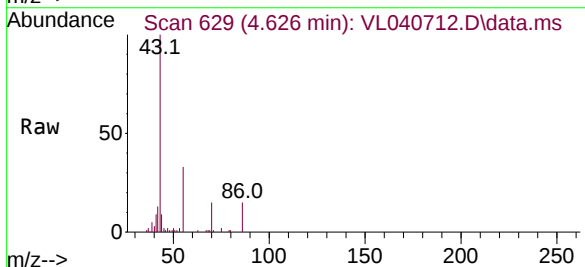
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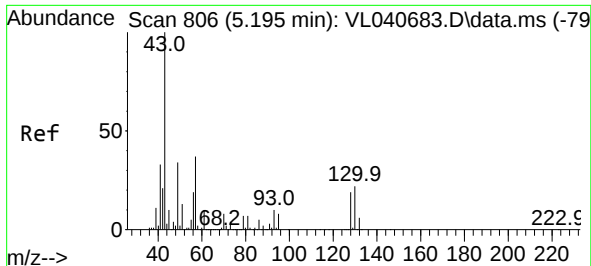
Tgt Ion: 84 Resp: 80149
Ion Ratio Lower Upper
84 100
49 136.0 114.4 171.6
51 43.3 35.5 53.3
86 54.6 53.2 79.8



#23
Vinyl Acetate
Concen: 0.430 ppbv
RT: 4.626 min Scan# 629
Delta R.T. -0.006 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 43 Resp: 62452
Ion Ratio Lower Upper
43 100
86 14.9 5.6 8.4#
42 11.7 7.6 11.4#
44 1.8 5.0 7.4#

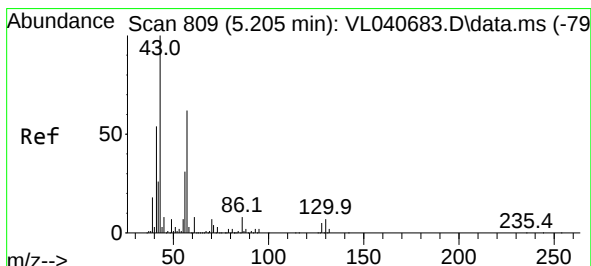
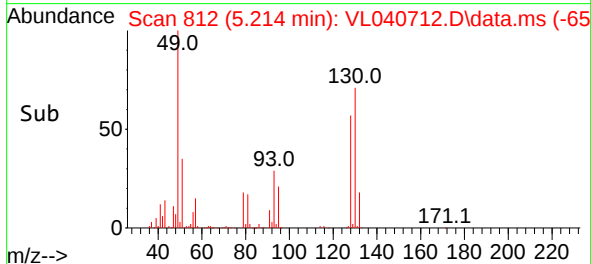
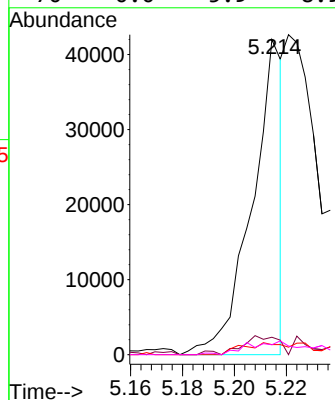
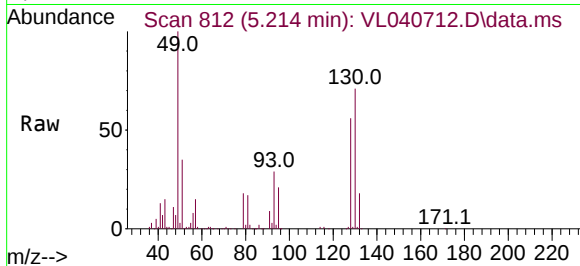




#25
Ethyl Acetate
Concen: 0.150 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

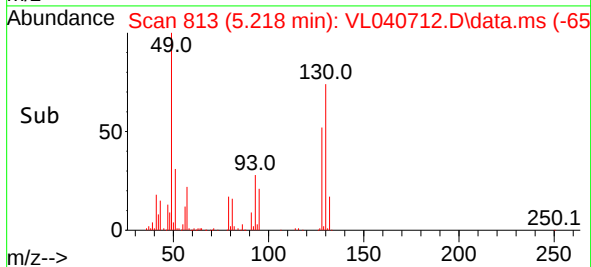
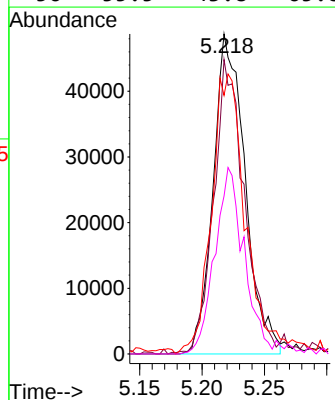
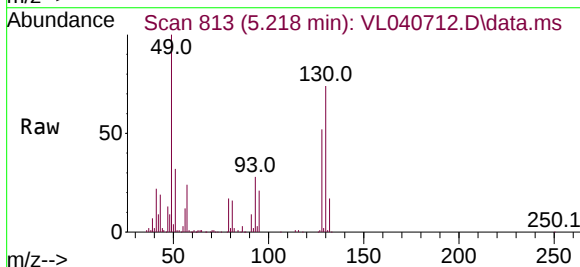
Instrument :
MSVOA_L
ClientSampleId :
OA1

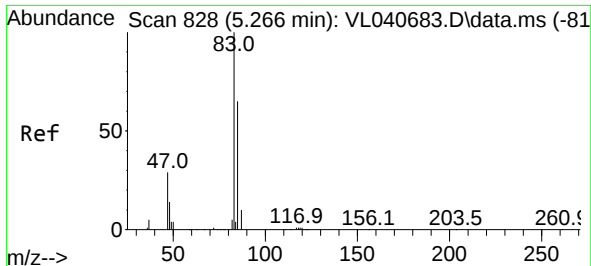
Tgt Ion: 43 Resp: 33978
Ion Ratio Lower Upper
43 100
45 12.3 8.2 12.4
61 9.6 8.2 12.4
70 0.0 5.9 8.9#



#26
Hexane
Concen: 0.808 ppbv
RT: 5.218 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 57 Resp: 86574
Ion Ratio Lower Upper
57 100
41 90.5 75.2 112.8
43 91.8 185.6 278.4#
56 55.5 43.8 65.8





#29

Chloroform

Concen: 0.049 ppbv

RT: 5.285 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

Instrument :

MSVOA_L

ClientSampleId :

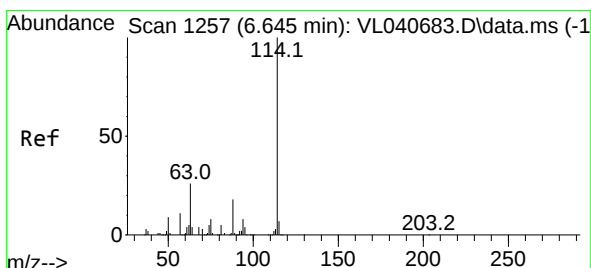
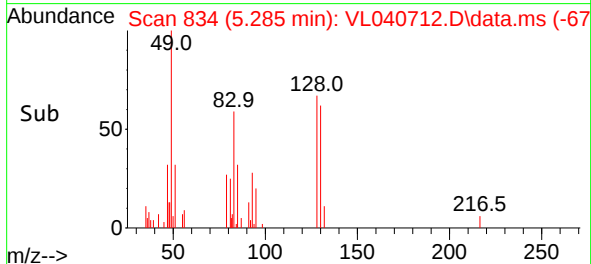
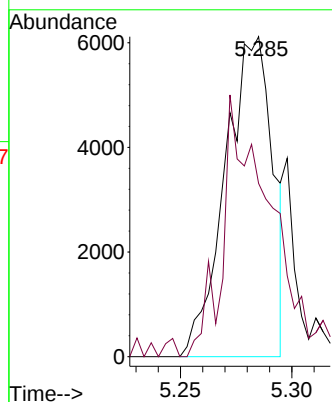
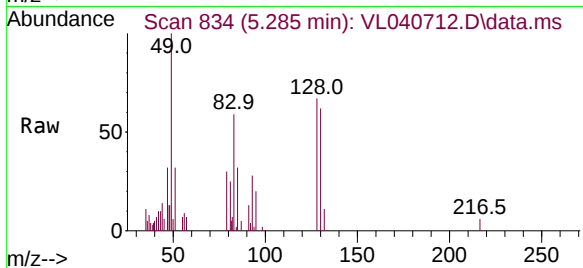
OA1

Tgt Ion: 83 Resp: 9056

Ion Ratio Lower Upper

83 100

85 54.2 51.8 77.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.003 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

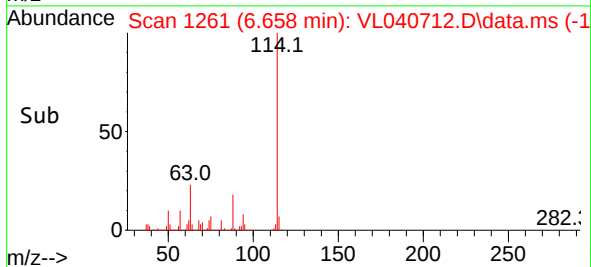
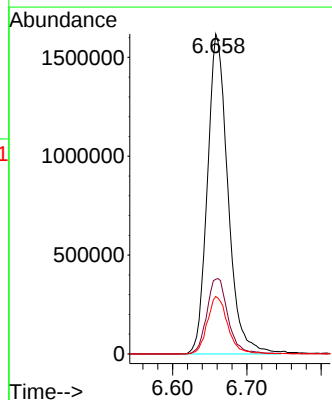
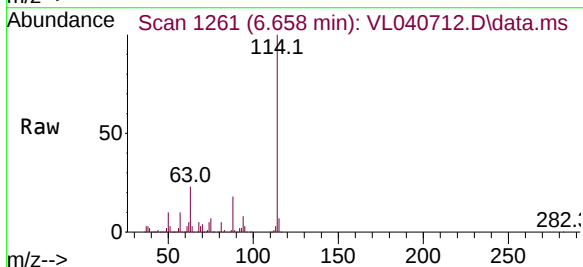
Tgt Ion: 114 Resp: 3100021

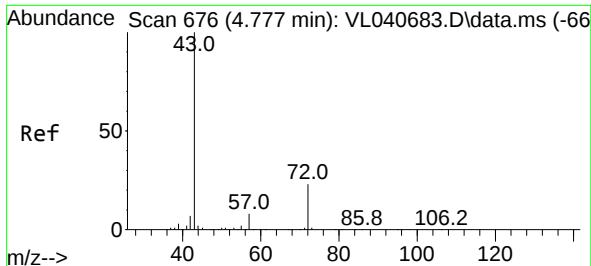
Ion Ratio Lower Upper

114 100

63 24.5 21.1 31.7

88 18.0 14.5 21.7

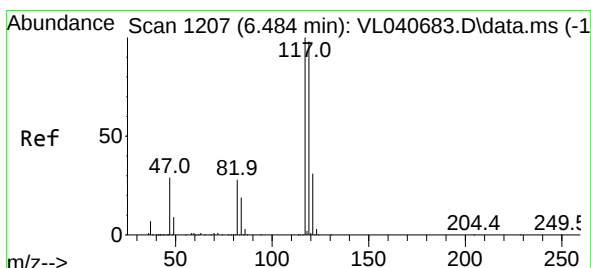
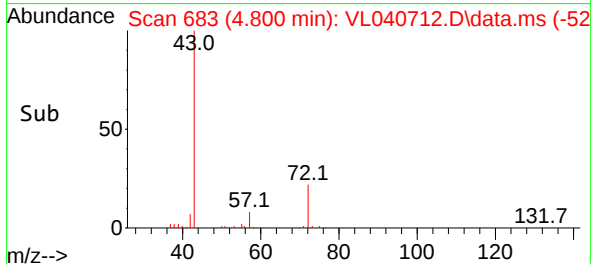
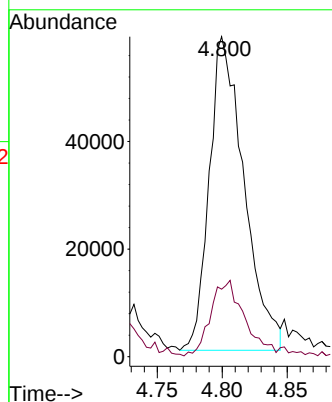
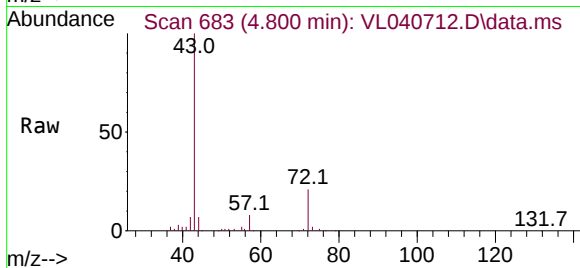




#34
2-Butanone
Concen: 0.696 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

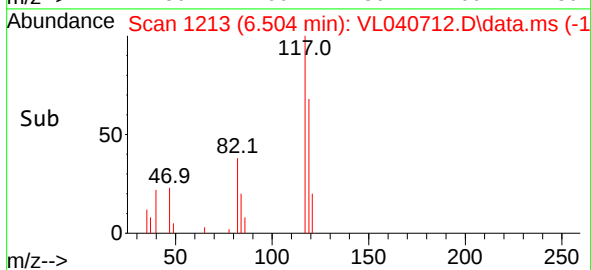
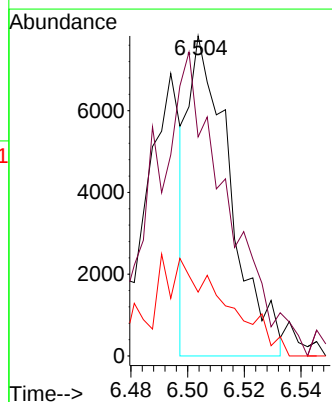
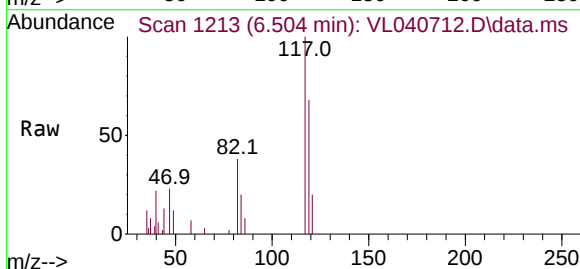
Instrument :
MSVOA_L
ClientSampleId :
OA1

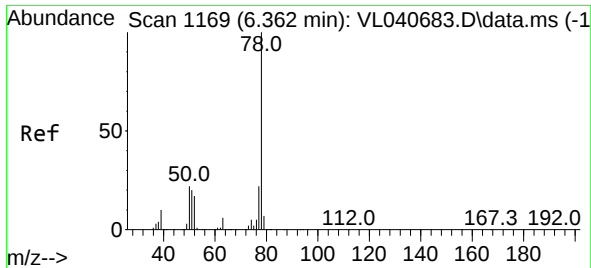
Tgt Ion: 43 Resp: 108536
Ion Ratio Lower Upper
43 100
72 26.4 18.6 27.8



#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 6.504 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 117 Resp: 8064
Ion Ratio Lower Upper
117 100
119 58.2 78.6 117.8#
121 14.7 24.7 37.1#





#36

Benzene

Concen: 0.196 ppbv

RT: 6.375 min Scan# 1169

Delta R.T. -0.006 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

Instrument :

MSVOA_L

ClientSampleId :

OA1

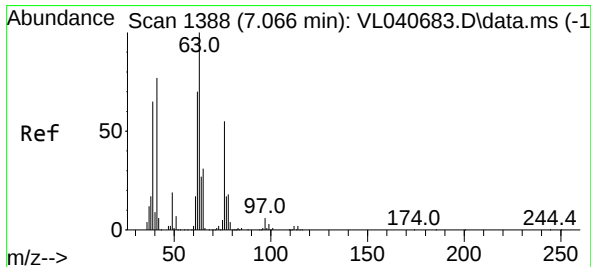
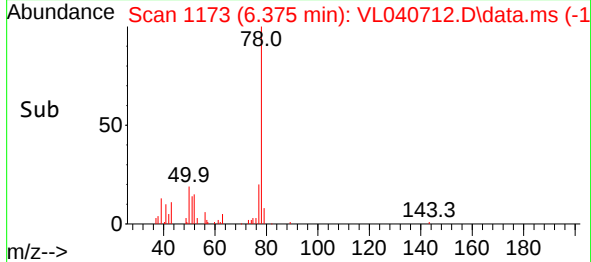
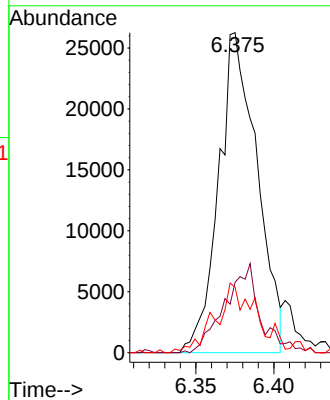
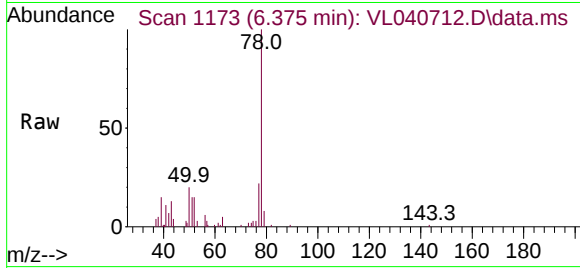
Tgt Ion: 78 Resp: 45097

Ion Ratio Lower Upper

78 100

77 22.0 17.9 26.9

50 19.1 17.3 25.9



#39

1,2-Dichloropropane

Concen: 8.521 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. -0.421 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

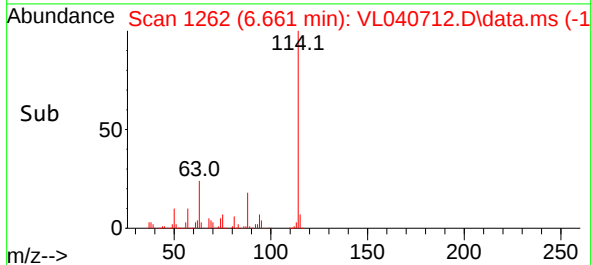
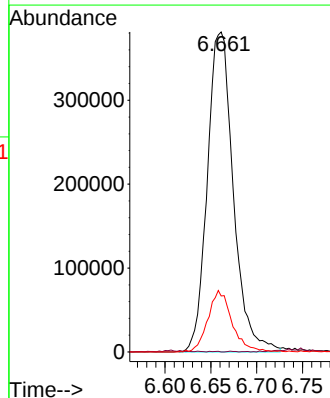
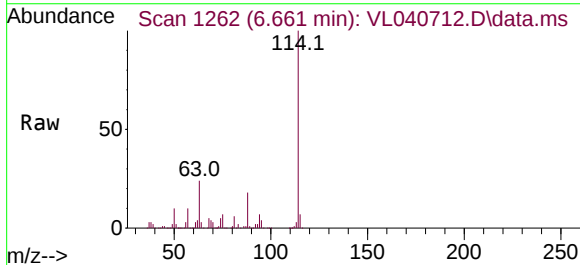
Tgt Ion: 63 Resp: 752927

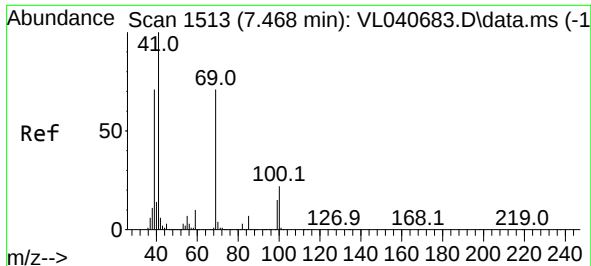
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 17.4 55.8 83.8#

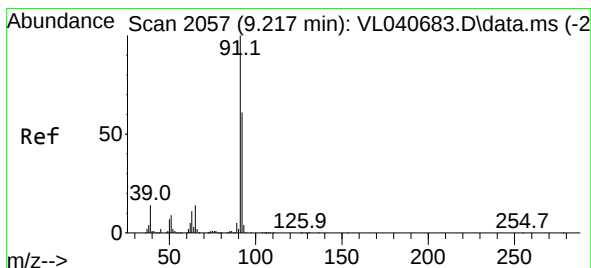
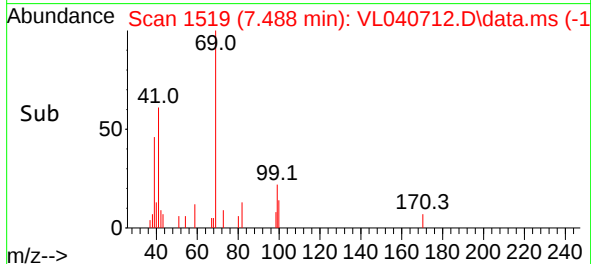
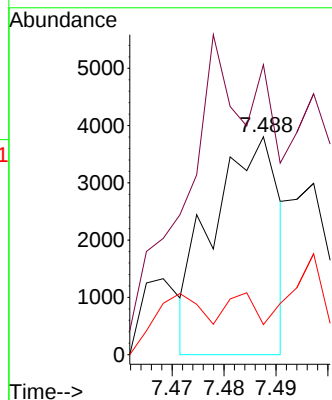
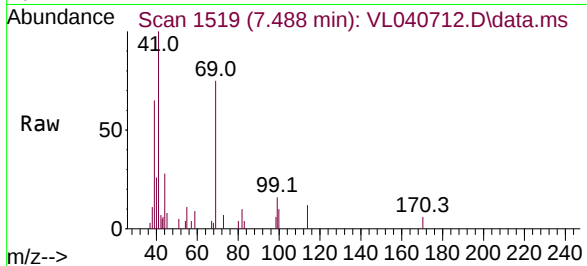




#43
Methyl Methacrylate
Concen: 0.039 ppbv
RT: 7.488 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

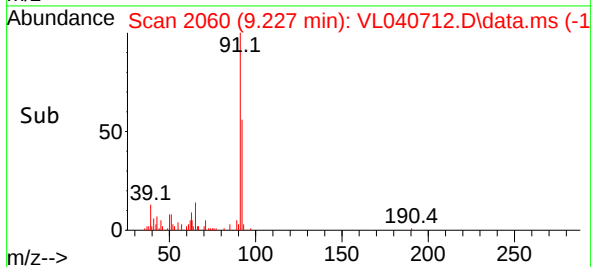
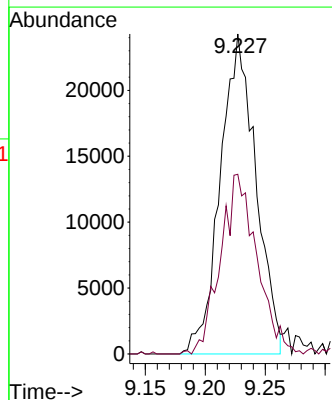
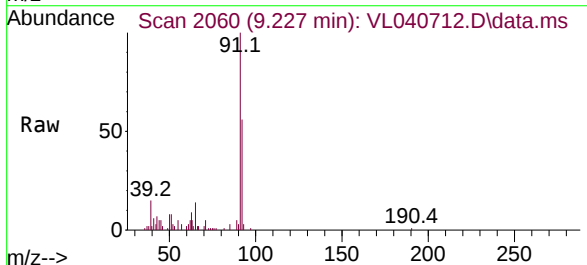
Instrument :
MSVOA_L
ClientSampleId :
OA1

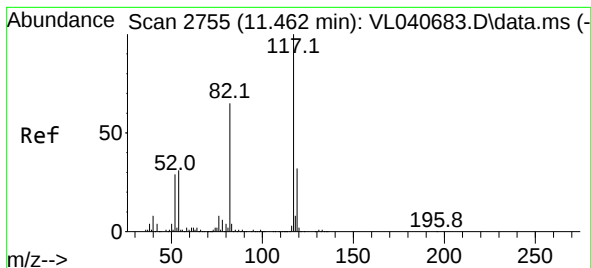
Tgt Ion: 69 Resp: 3365
Ion Ratio Lower Upper
69 100
41 376.5 113.8 170.8#
100 0.0 25.4 38.0#



#53
Toluene
Concen: 0.206 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 91 Resp: 50002
Ion Ratio Lower Upper
91 100
92 58.0 48.5 72.7

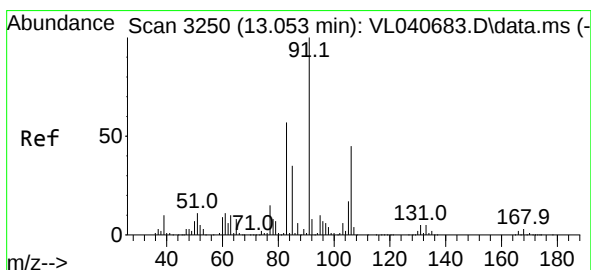
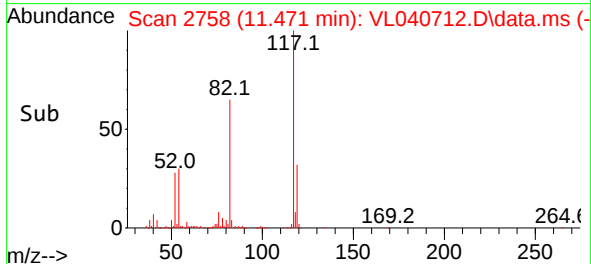
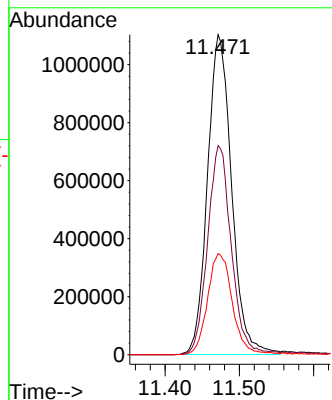
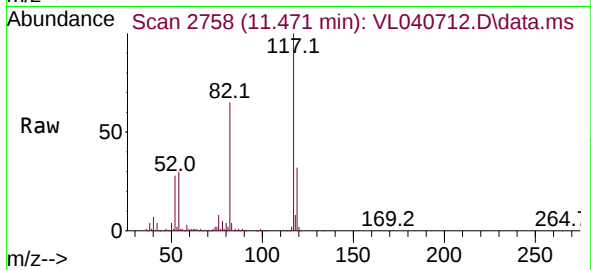




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

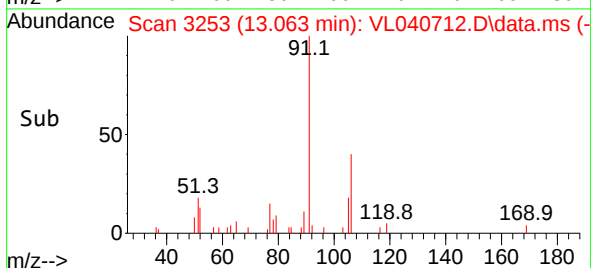
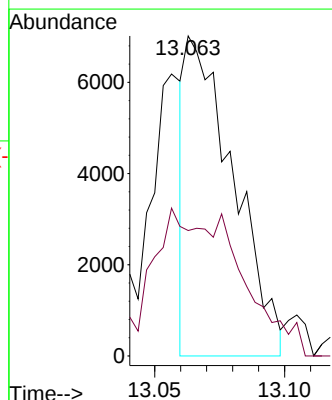
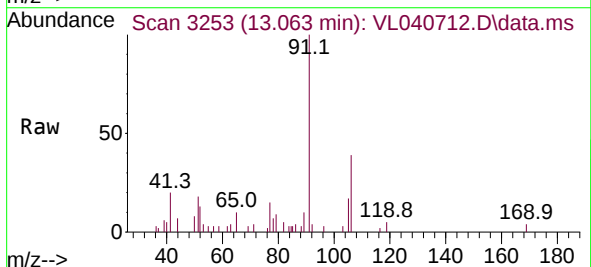
Instrument :
MSVOA_L
ClientSampleId :
OA1

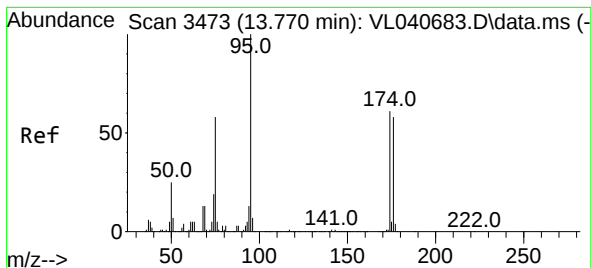
Tgt Ion:117 Resp: 2486222
Ion Ratio Lower Upper
117 100
82 65.2 51.4 77.0
119 32.9 24.7 37.1



#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. -0.006 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 91 Resp: 8992
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#

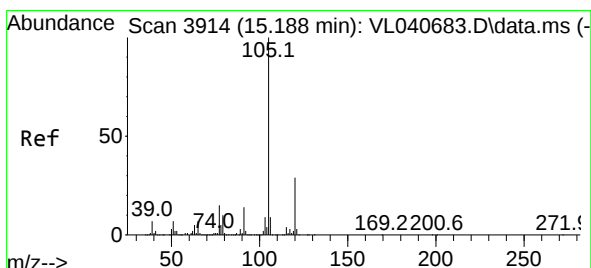
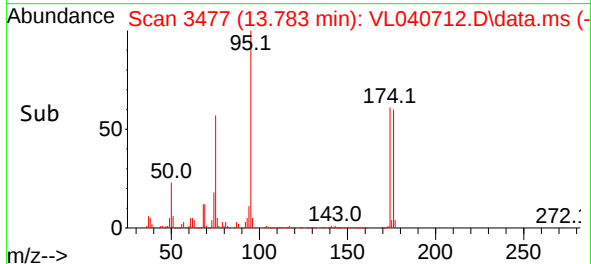
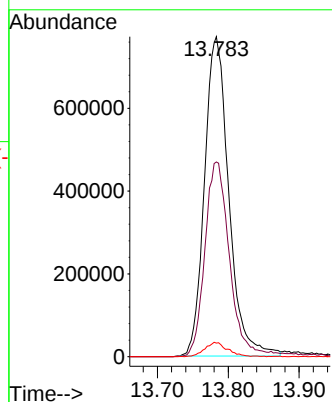
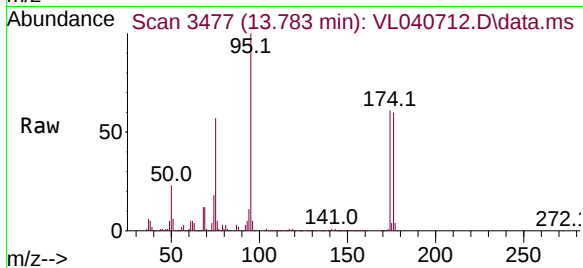




#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

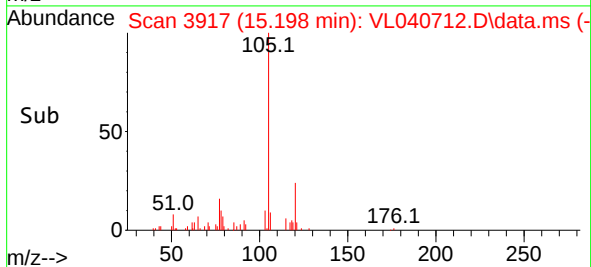
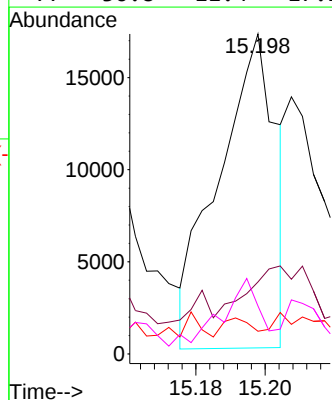
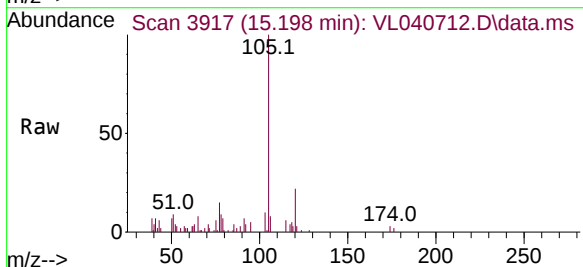
Instrument :
MSVOA_L
ClientSampleId :
OA1

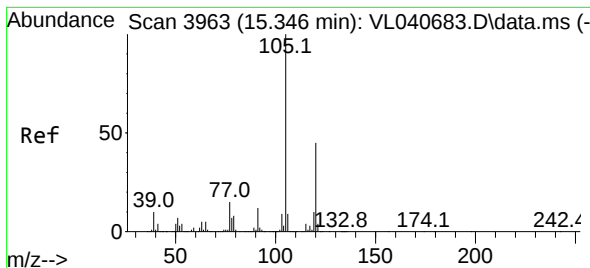
Tgt Ion: 95 Resp: 1838950
Ion Ratio Lower Upper
95 100
174 63.4 48.9 73.3
175 4.3 3.5 5.3



#72
4-Ethyltoluene
Concen: 0.068 ppbv
RT: 15.198 min Scan# 3917
Delta R.T. -0.003 min
Lab File: VL040712.D
Acq: 18 Sep 2023 23:42

Tgt Ion: 105 Resp: 19477
Ion Ratio Lower Upper
105 100
120 0.0 23.9 35.9#
91 27.0 11.0 16.4#
77 36.8 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.048 ppbv

RT: 15.352 min Scan# 3965

Delta R.T. -0.009 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

Instrument :

MSVOA_L

ClientSampleId :

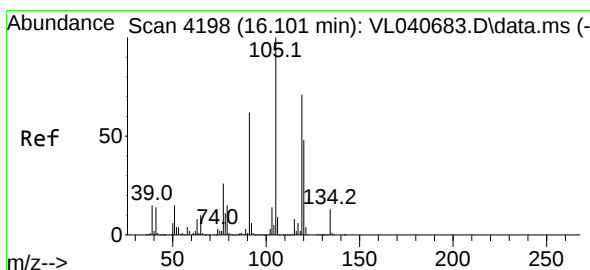
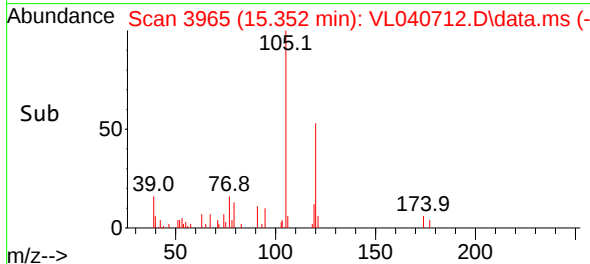
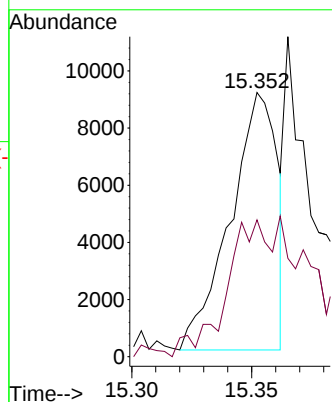
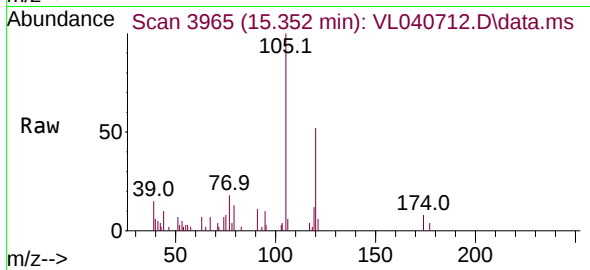
OA1

Tgt Ion:105 Resp: 12260

Ion Ratio Lower Upper

105 100

120 45.8 36.1 54.1



#74

1,2,4-Trimethylbenzene

Concen: 0.195 ppbv

RT: 16.114 min Scan# 4202

Delta R.T. -0.003 min

Lab File: VL040712.D

Acq: 18 Sep 2023 23:42

Tgt Ion:105 Resp: 60799

Ion Ratio Lower Upper

105 100

120 32.9 38.6 57.8#

91 9.8 50.0 75.0#

77 18.0 20.6 31.0#

