

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040121.D
 Acq On : 19 Jan 2023 20:06
 Operator : SY/MD
 Sample : 01223-01DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1DL2

Quant Time: Jan 20 02:09:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

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

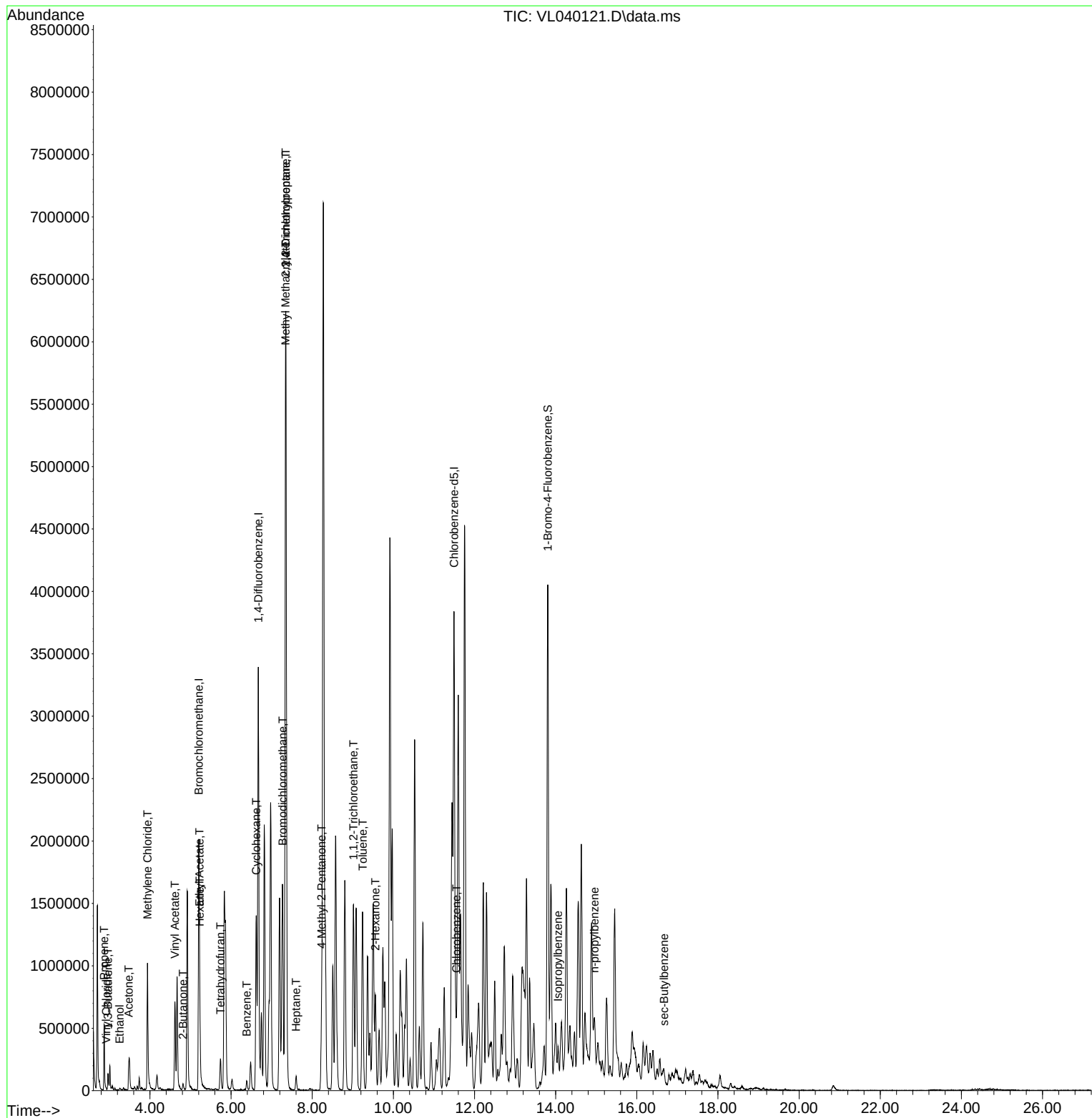
Internal Standards							
1)	Bromochloromethane	5.205	49	970673	10.000	ppbv	0.02
33)	1,4-Difluorobenzene	6.671	114	2688895	10.000	ppbv	0.02
55)	Chlorobenzene-d5	11.497	117	2473516	10.000	ppbv	0.02
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	13.809	95	2103567	10.233	ppbv	0.03
Spiked Amount		10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds							Qvalue
5)	Vinyl Chloride	2.925	62	2470	0.040	ppbv	# 71
9)	Propene	2.870	41	134083	2.772	ppbv	95
10)	Heptane	7.603	43	46446	0.417	ppbv	# 27
13)	Ethanol	3.256	45	12926	2.903	ppbv	98
15)	Acetone	3.478	43	275625	2.368	ppbv	95
16)	1,3-Butadiene	2.967	39	33974	0.626	ppbv	# 42
20)	Methylene Chloride	3.941	84	358581	6.982	ppbv	95
23)	Vinyl Acetate	4.619	43	385527	10.216	ppbv	# 3
25)	Ethyl Acetate	5.224	43	140844	0.687	ppbv	# 77
26)	Hexane	5.227	57	210995	2.351	ppbv	# 36
30)	Cyclohexane	6.623	84	531897	7.455	ppbv	96
34)	2-Butanone	4.816	43	59343	0.467	ppbv	99
36)	Benzene	6.385	78	34460	0.173	ppbv	# 94
39)	1,2-Dichloropropane	7.346	63	8227	0.106	ppbv	# 1
41)	Tetrahydrofuran	5.738	42	2275	0.031	ppbv	# 58
42)	Bromodichloromethane	7.272	83	89468	0.518	ppbv	# 25
43)	Methyl Methacrylate	7.340	69	328514	4.499	ppbv	# 1
44)	2,2,4-Trimethylpentane	7.349	57	4882368	14.754	ppbv	# 75
47)	1,1,2-Trichloroethane	9.018	97	60859	0.743	ppbv	# 52
50)	4-Methyl-2-Pentanone	8.230	43	26711	0.134	ppbv	# 59
51)	2-Hexanone	9.558	43	442283	2.918	ppbv	# 30
53)	Toluene	9.243	91	44875	0.211	ppbv	95
57)	Chlorobenzene	11.555	112	9233	0.055	ppbv	# 23
62)	Isopropylbenzene	14.056	105	186069	0.549	ppbv	99
64)	n-propylbenzene	14.953	120	15274	0.181	ppbv	# 1
67)	sec-Butylbenzene	16.670	105	45664	0.111	ppbv	# 92

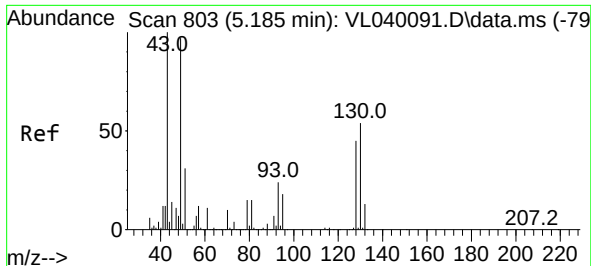
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 20 02:09:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration

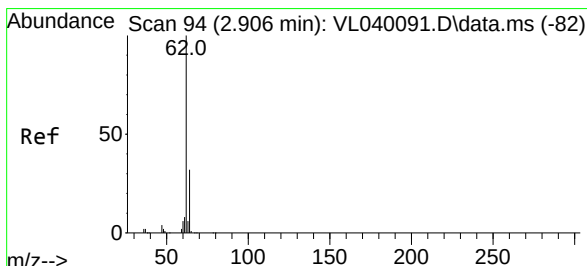
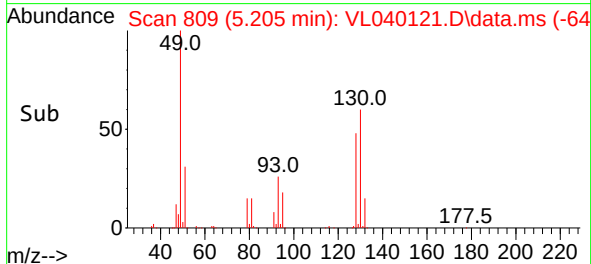
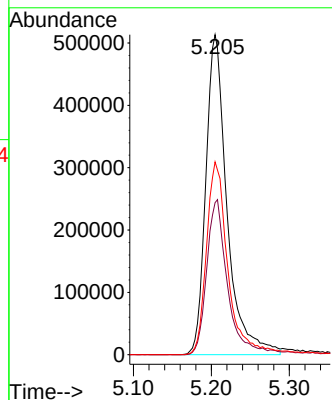
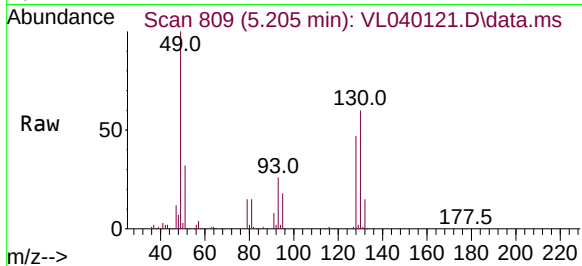




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

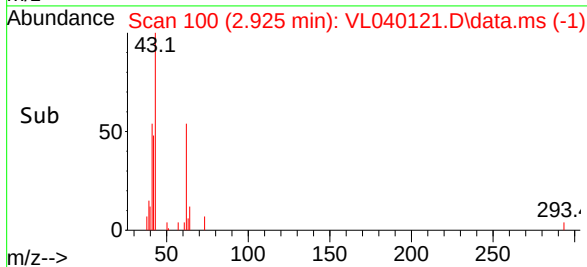
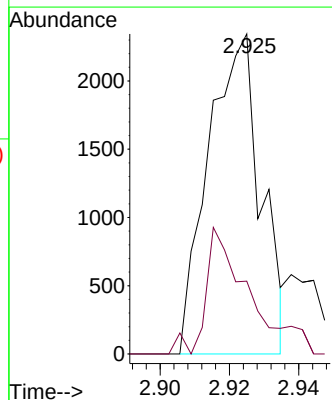
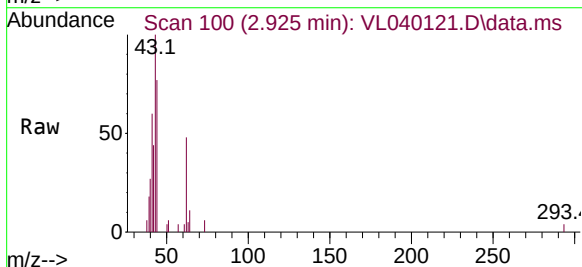
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL2

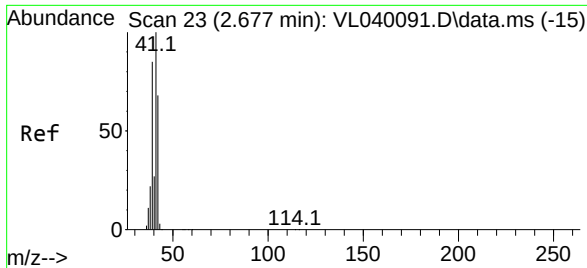
Tgt Ion: 49 Resp: 970673
Ion Ratio Lower Upper
49 100
128 48.9 23.6 71.0
130 62.0 29.8 89.3



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 2.925 min Scan# 100
Delta R.T. 0.019 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion: 62 Resp: 2470
Ion Ratio Lower Upper
62 100
64 16.2 25.8 38.6#





#9

Propene

Concen: 2.772 ppbv

RT: 2.870 min Scan# 81

Delta R.T. 0.193 min

Lab File: VL040121.D

Acq: 19 Jan 2023 20:06

Instrument :

MSVOA_L

ClientSampleId :

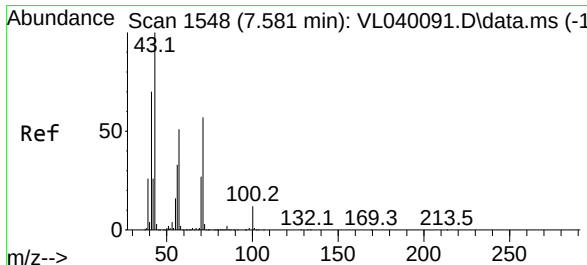
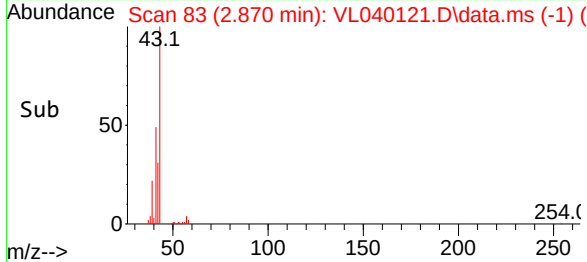
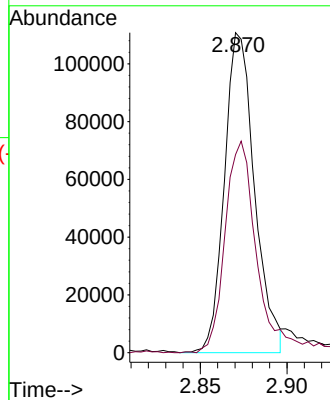
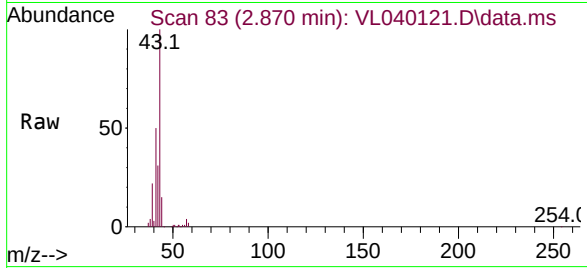
VP-1DL2

Tgt Ion: 41 Resp: 134083

Ion Ratio Lower Upper

41 100

42 73.5 55.6 83.4



#10

Heptane

Concen: 0.417 ppbv

RT: 7.603 min Scan# 1555

Delta R.T. 0.022 min

Lab File: VL040121.D

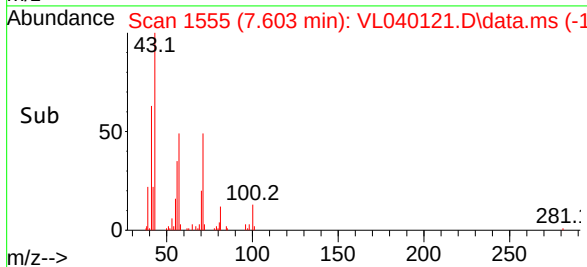
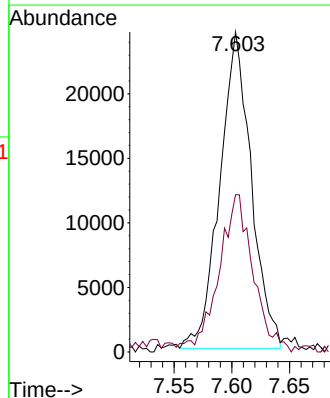
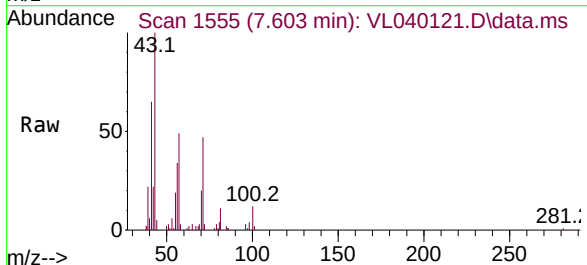
Acq: 19 Jan 2023 20:06

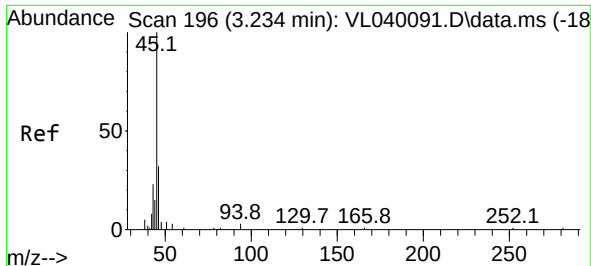
Tgt Ion: 43 Resp: 46446

Ion Ratio Lower Upper

43 100

57 0.0 40.9 61.3#

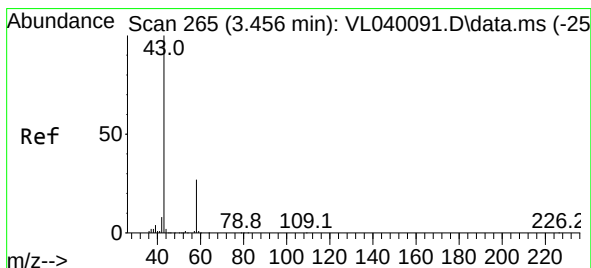
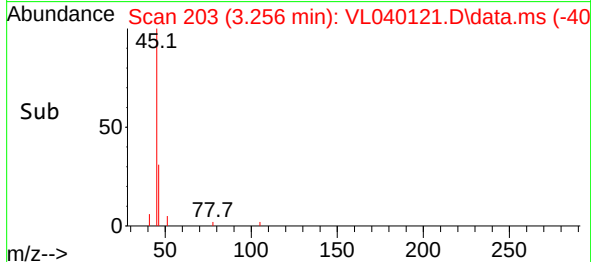
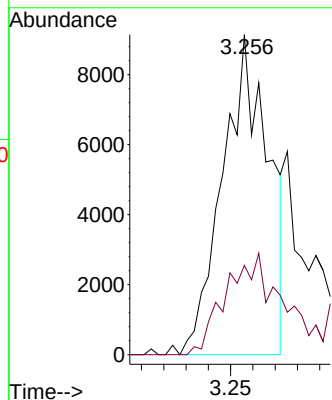
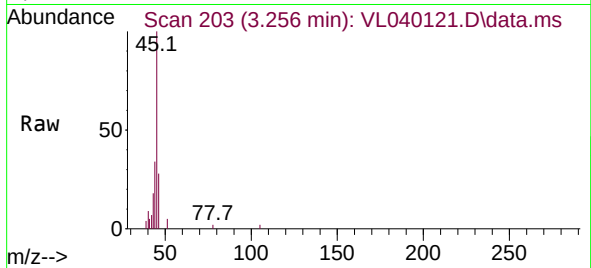




#13
 Ethanol
 Concen: 2.903 ppbv
 RT: 3.256 min Scan# 203
 Delta R.T. 0.022 min
 Lab File: VL040121.D
 Acq: 19 Jan 2023 20:06

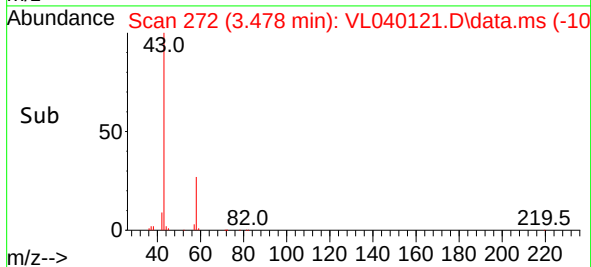
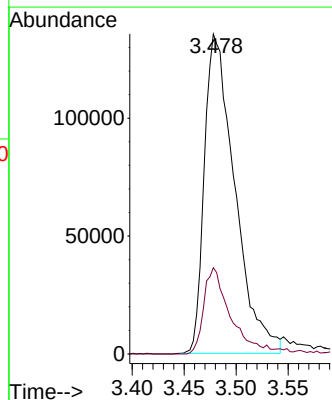
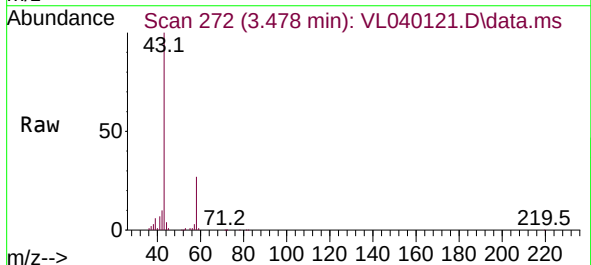
Instrument :
 MSVOA_1
 ClientSampleId :
 VP-1DL2

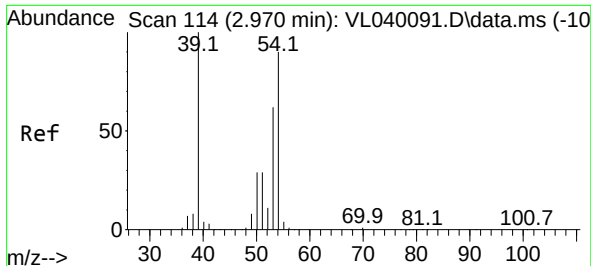
Tgt Ion: 45 Resp: 12926
 Ion Ratio Lower Upper
 45 100
 46 37.9 14.8 59.2



#15
 Acetone
 Concen: 2.368 ppbv
 RT: 3.478 min Scan# 272
 Delta R.T. 0.022 min
 Lab File: VL040121.D
 Acq: 19 Jan 2023 20:06

Tgt Ion: 43 Resp: 275625
 Ion Ratio Lower Upper
 43 100
 58 24.9 21.8 32.8

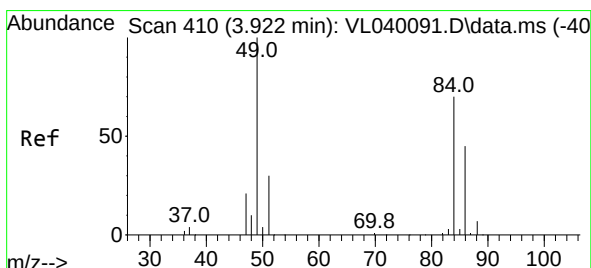
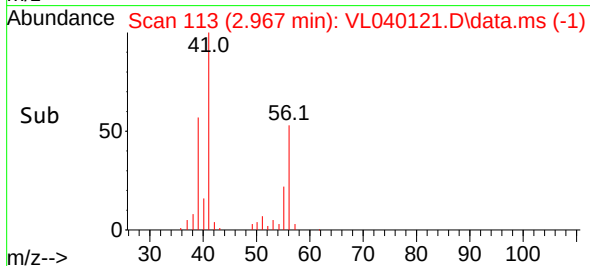
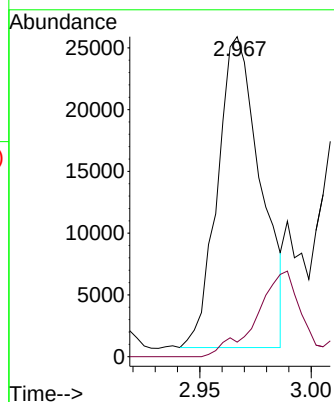
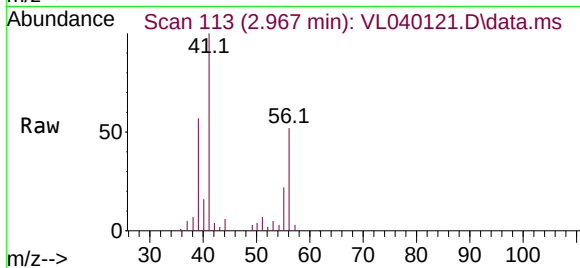




#16
1,3-Butadiene
Concen: 0.626 ppbv
RT: 2.967 min Scan# 114
Delta R.T. -0.003 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

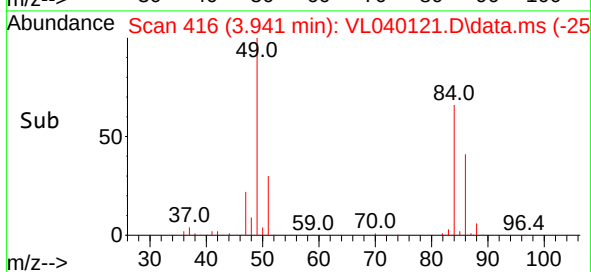
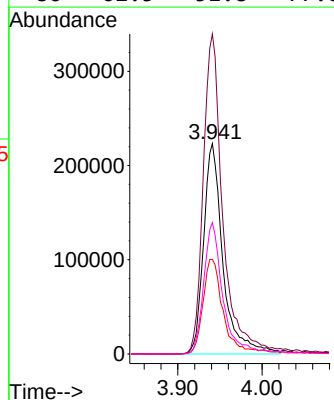
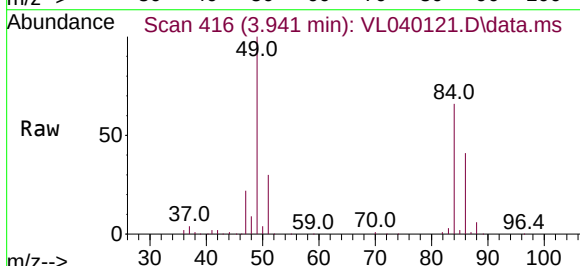
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL2

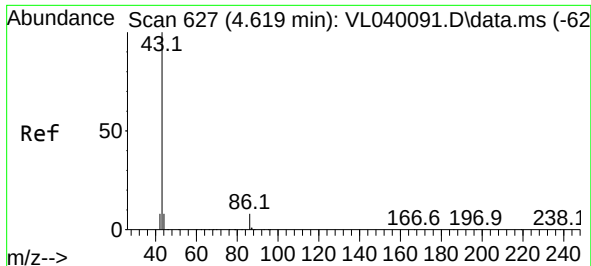
Tgt Ion: 39 Resp: 33974
Ion Ratio Lower Upper
39 100
54 31.8 67.9 101.9#



#20
Methylene Chloride
Concen: 6.982 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.019 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion: 84 Resp: 358581
Ion Ratio Lower Upper
84 100
49 152.1 114.6 171.8
51 44.9 34.3 51.5
86 62.5 51.8 77.8



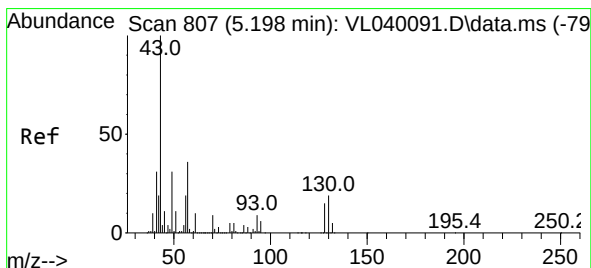
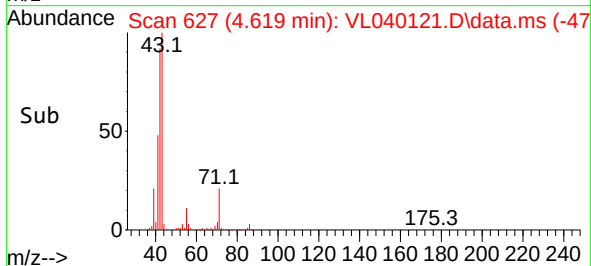
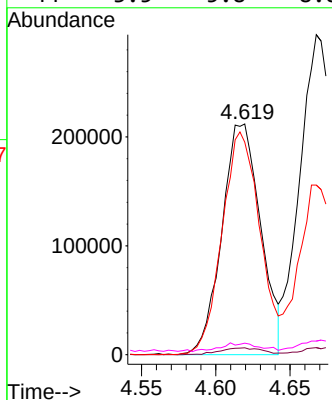
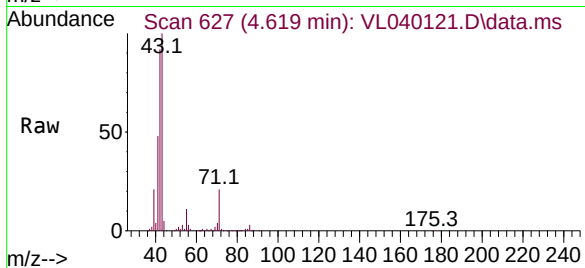


#23
 Vinyl Acetate
 Concen: 10.216 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL040121.D
 Acq: 19 Jan 2023 20:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VP-1DL2

Tgt Ion: 43 Resp: 385527

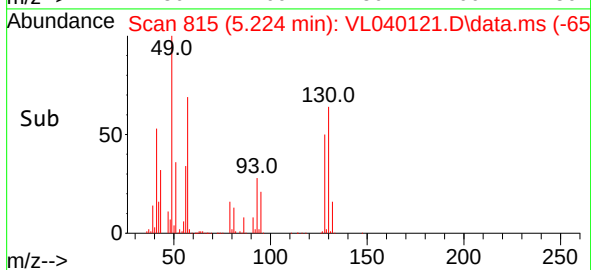
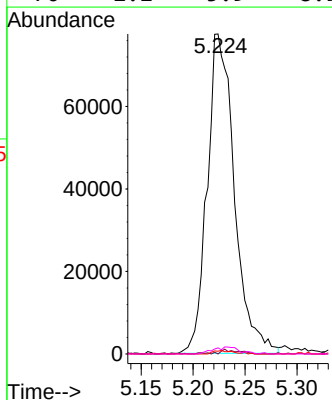
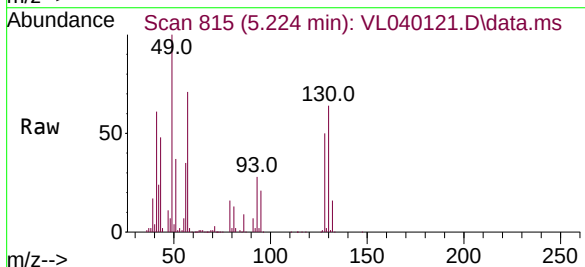
Ion	Ratio	Lower	Upper
43	100		
86	3.0	5.6	8.4#
42	92.0	7.7	11.5#
44	3.5	5.8	8.8#

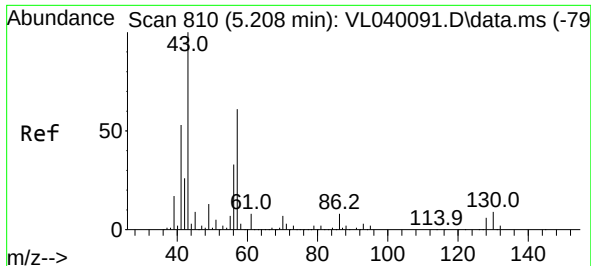


#25
 Ethyl Acetate
 Concen: 0.687 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.026 min
 Lab File: VL040121.D
 Acq: 19 Jan 2023 20:06

Tgt Ion: 43 Resp: 140844

Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.5	12.7#
61	0.8	8.4	12.6#
70	2.2	5.9	8.9#

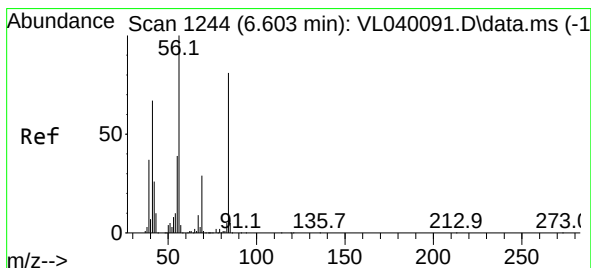
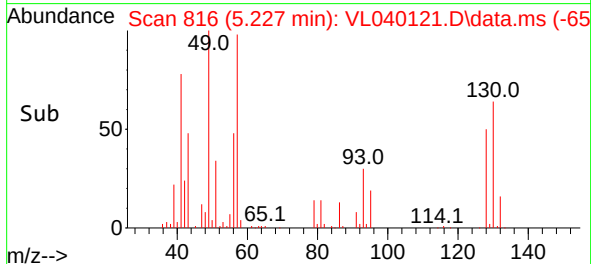
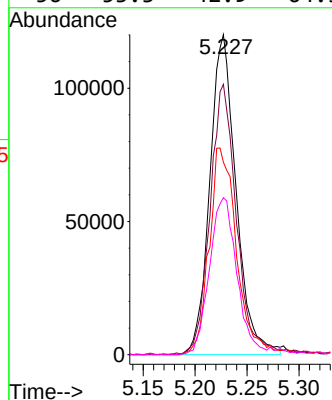
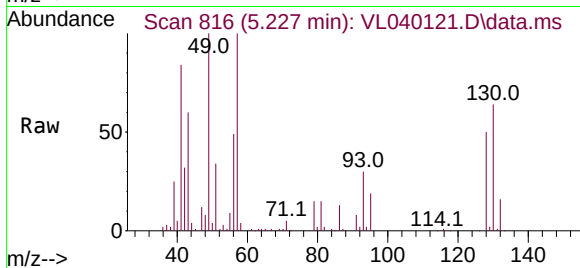




#26
Hexane
Concen: 2.351 ppbv
RT: 5.227 min Scan# 810
Delta R.T. 0.019 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

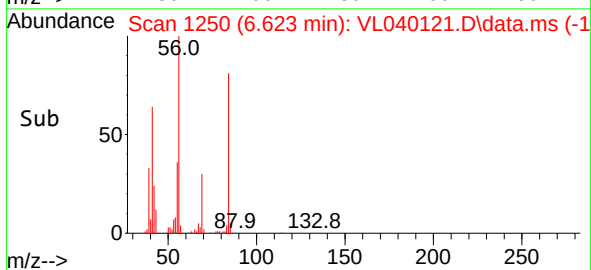
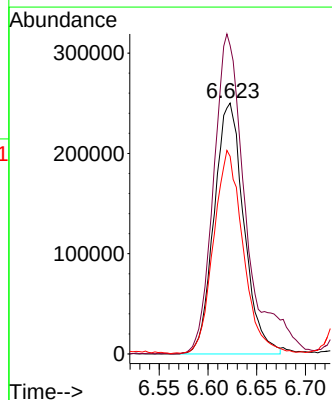
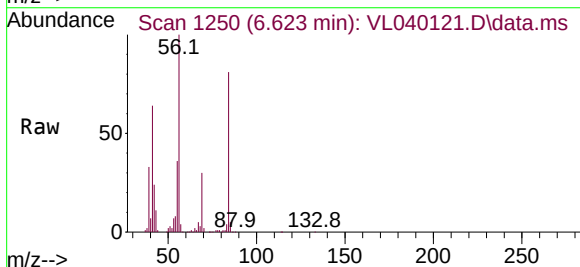
Instrument :
MSVOA_1
ClientSampleId :
VP-1DL2

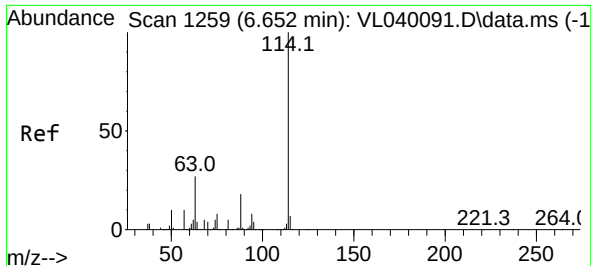
Tgt Ion:	57	Resp:	210995
Ion	Ratio	Lower	Upper
57	100		
41	86.3	72.2	108.4
43	68.9	192.1	288.1#
56	53.3	42.9	64.3



#30
Cyclohexane
Concen: 7.455 ppbv
RT: 6.623 min Scan# 1250
Delta R.T. 0.019 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion:	84	Resp:	531897
Ion	Ratio	Lower	Upper
84	100		
56	138.4	111.5	167.3
41	80.5	71.4	107.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL040121.D

Acq: 19 Jan 2023 20:06

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL2

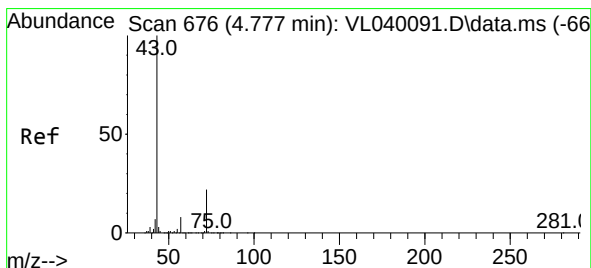
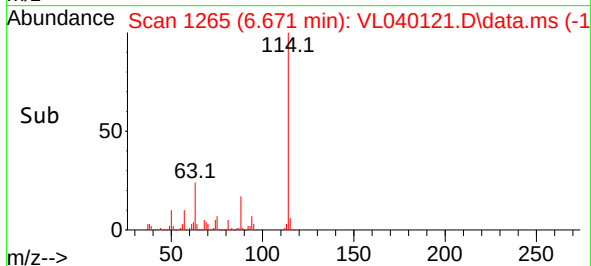
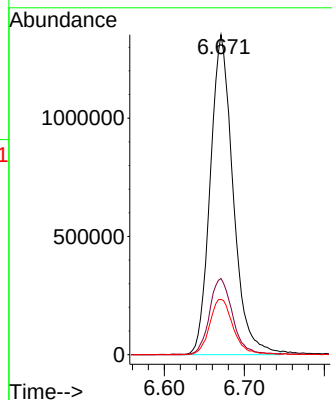
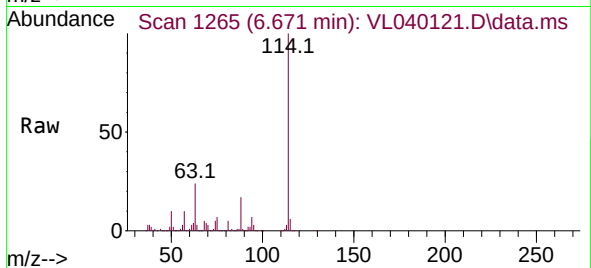
Tgt Ion:114 Resp: 2688895

Ion Ratio Lower Upper

114 100

63 24.6 21.8 32.8

88 18.0 14.8 22.2



#34

2-Butanone

Concen: 0.467 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.039 min

Lab File: VL040121.D

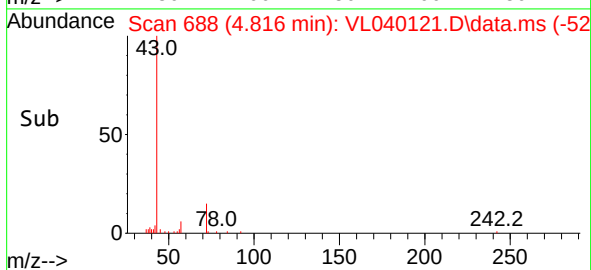
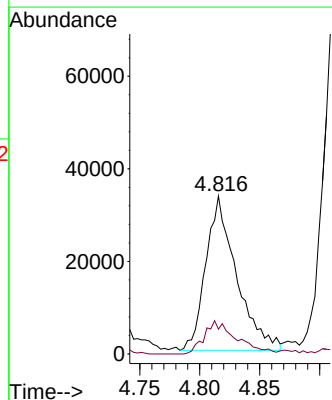
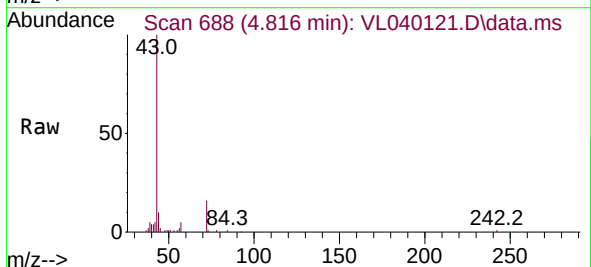
Acq: 19 Jan 2023 20:06

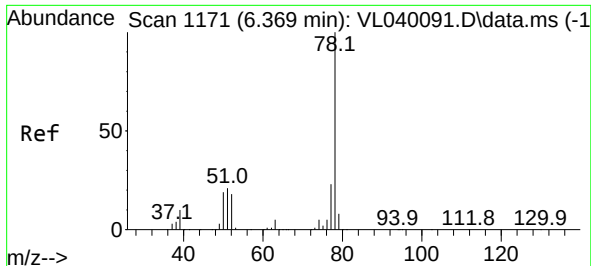
Tgt Ion: 43 Resp: 59343

Ion Ratio Lower Upper

43 100

72 23.3 18.4 27.6

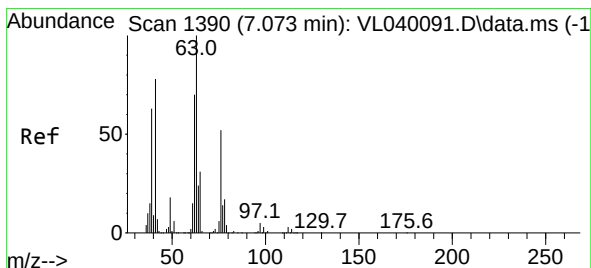
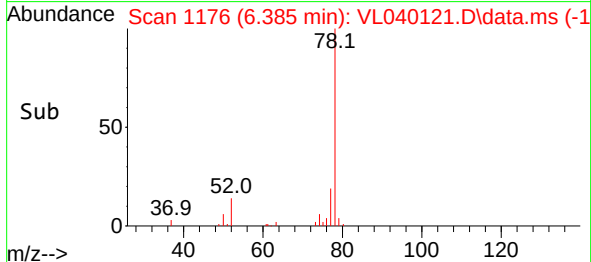
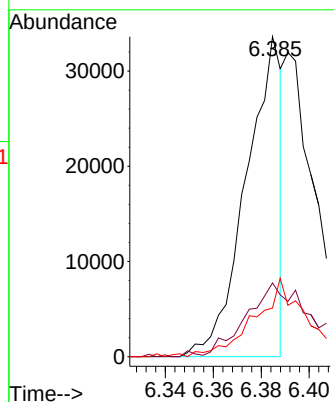
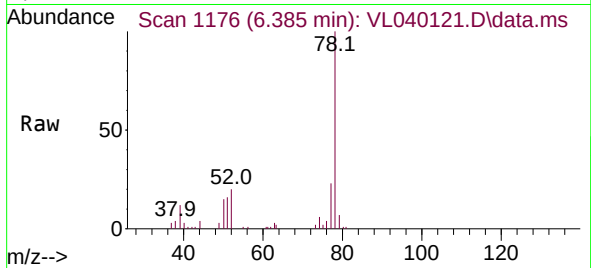




#36
Benzene
Concen: 0.173 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. 0.016 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

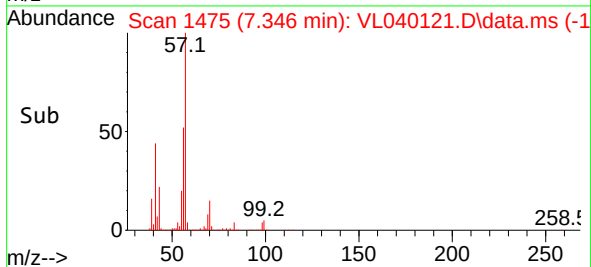
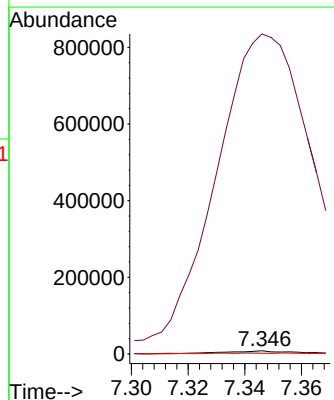
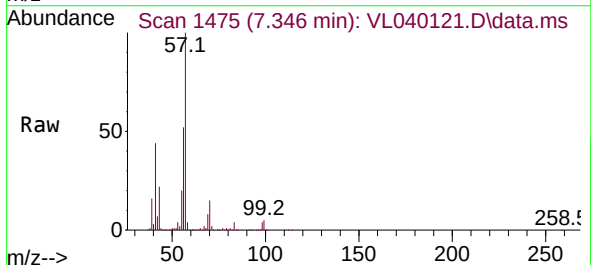
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL2

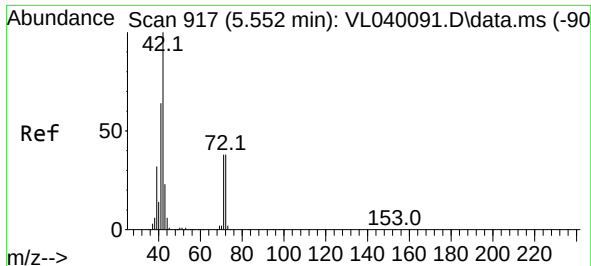
Tgt Ion: 78 Resp: 34460
Ion Ratio Lower Upper
78 100
77 23.2 18.1 27.1
50 14.4 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 0.106 ppbv
RT: 7.346 min Scan# 1475
Delta R.T. 0.273 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion: 63 Resp: 8227
Ion Ratio Lower Upper
63 100
41 9625.7 62.2 93.4#
62 14.6 55.8 83.8#

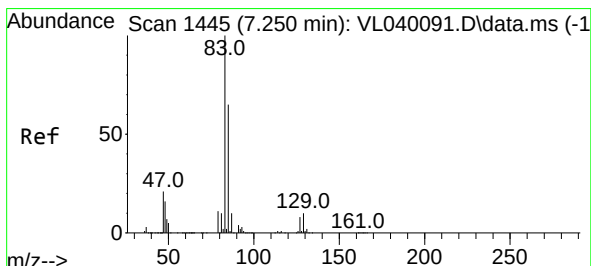
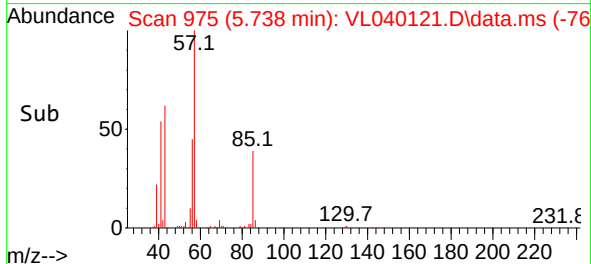
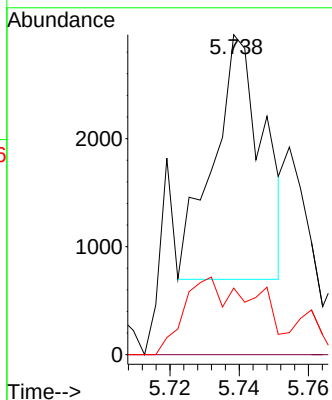
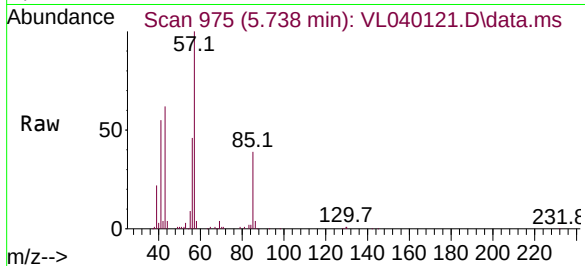




#41
Tetrahydrofuran
Concen: 0.031 ppbv
RT: 5.738 min Scan# 917
Delta R.T. 0.186 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

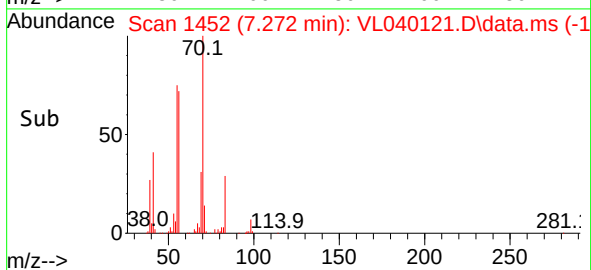
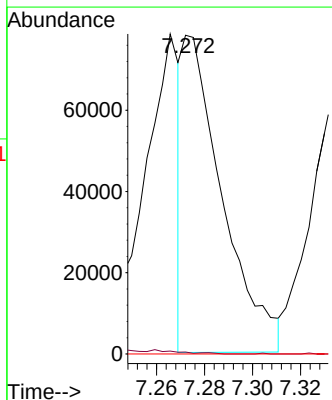
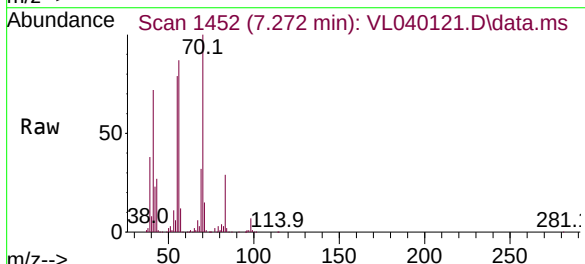
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL2

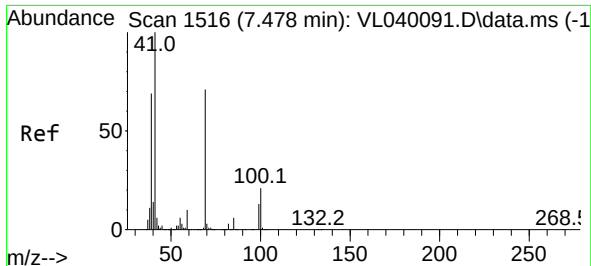
Tgt Ion: 42 Resp: 2275
Ion Ratio Lower Upper
42 100
72 7.0 31.9 47.9#
71 57.8 31.4 47.2#



#42
Bromodichloromethane
Concen: 0.518 ppbv
RT: 7.272 min Scan# 1452
Delta R.T. 0.022 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion: 83 Resp: 89468
Ion Ratio Lower Upper
83 100
85 0.7 51.7 77.5#
127 0.0 6.2 9.2#

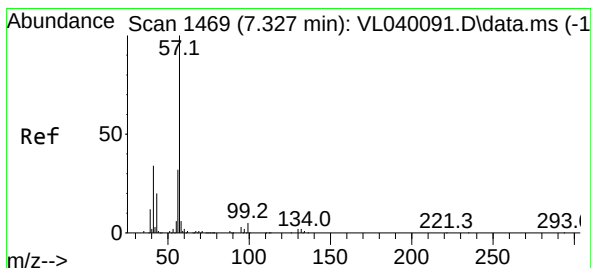
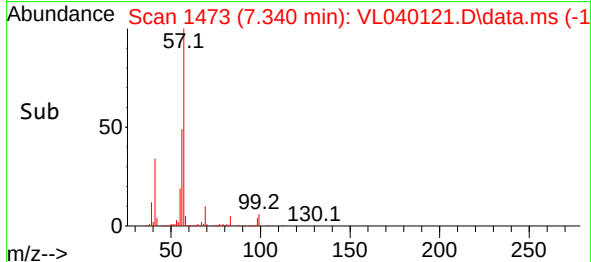
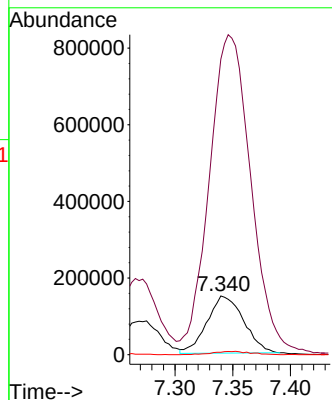
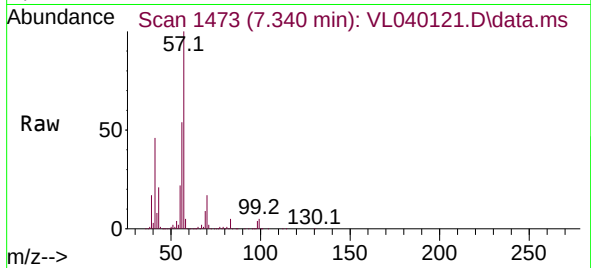




#43
Methyl Methacrylate
Concen: 4.499 ppbv
RT: 7.340 min Scan# 1473
Delta R.T. -0.138 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

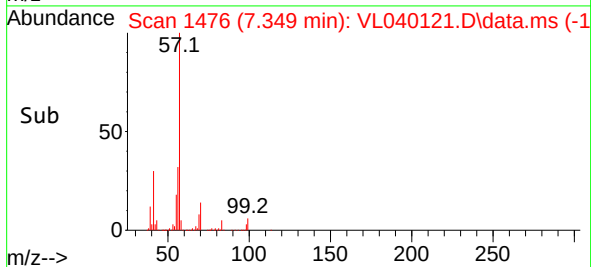
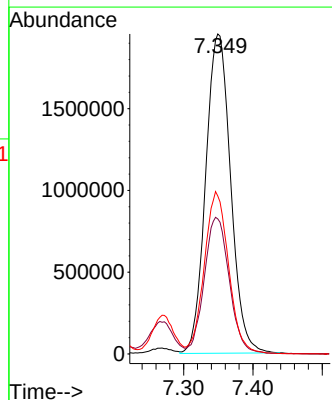
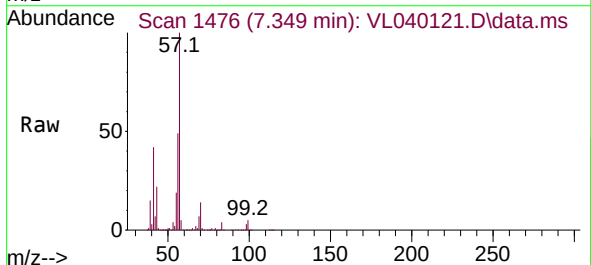
Instrument :
MSVOA_1
ClientSampleId :
VP-1DL2

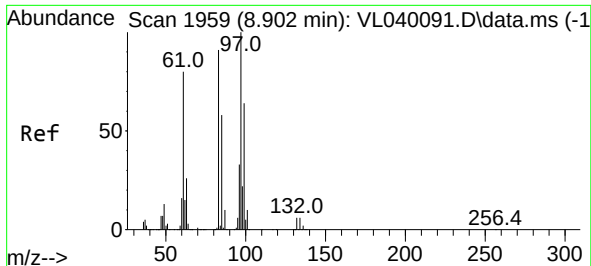
Tgt Ion: 69 Resp: 328514
Ion Ratio Lower Upper
69 100
41 646.7 118.2 177.2#
100 6.1 24.2 36.4#



#44
2,2,4-Trimethylpentane
Concen: 14.754 ppbv
RT: 7.349 min Scan# 1476
Delta R.T. 0.022 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion: 57 Resp: 4882368
Ion Ratio Lower Upper
57 100
41 43.4 27.1 40.7#
56 49.9 25.0 37.4#





#47

1,1,2-Trichloroethane

Concen: 0.743 ppbv

RT: 9.018 min Scan# 1959

Delta R.T. 0.116 min

Lab File: VL040121.D

Acq: 19 Jan 2023 20:06

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL2

Tgt Ion: 97 Resp: 60859

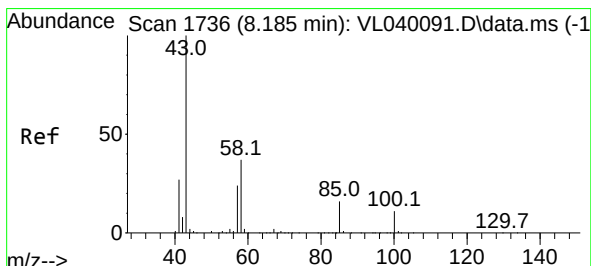
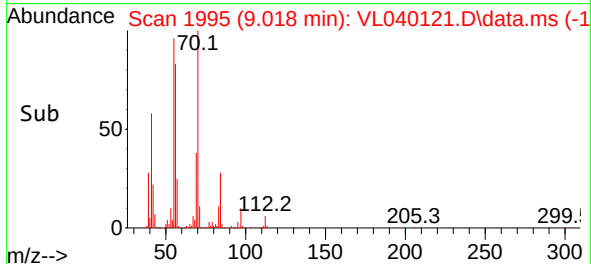
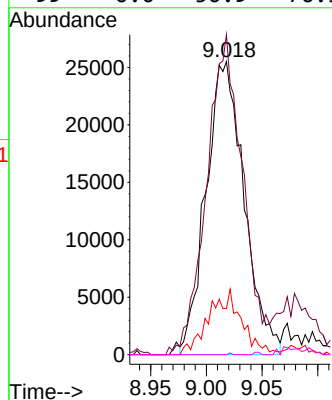
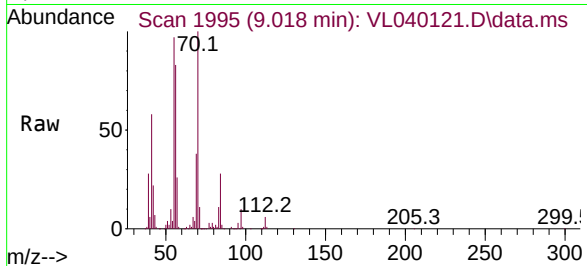
Ion Ratio Lower Upper

97 100

83 109.3 72.9 109.3

85 16.1 46.0 69.0#

99 0.0 50.9 76.3#



#50

4-Methyl-2-Pentanone

Concen: 0.134 ppbv

RT: 8.230 min Scan# 1750

Delta R.T. 0.045 min

Lab File: VL040121.D

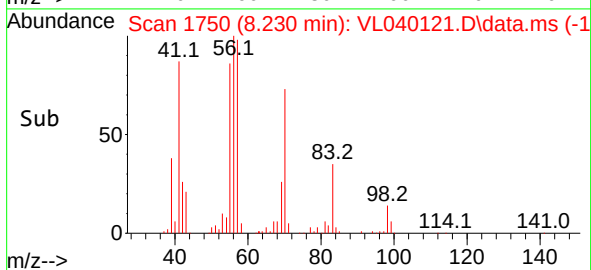
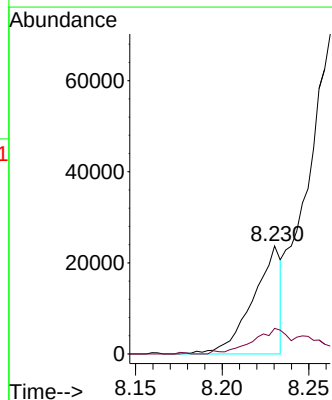
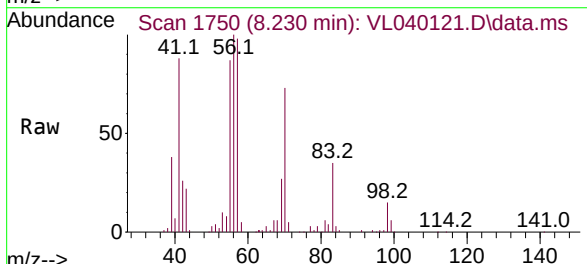
Acq: 19 Jan 2023 20:06

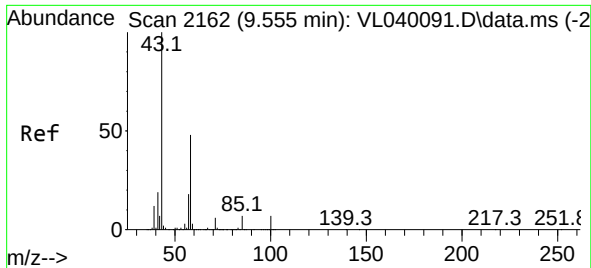
Tgt Ion: 43 Resp: 26711

Ion Ratio Lower Upper

43 100

58 60.2 28.8 43.2#

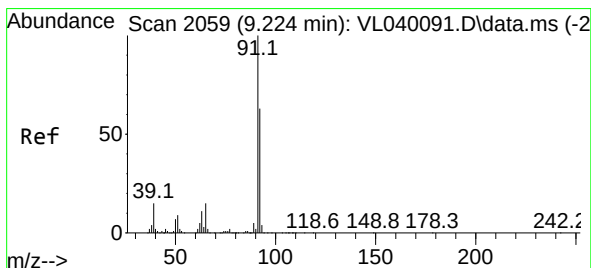
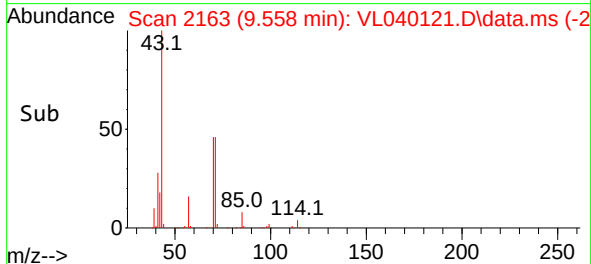
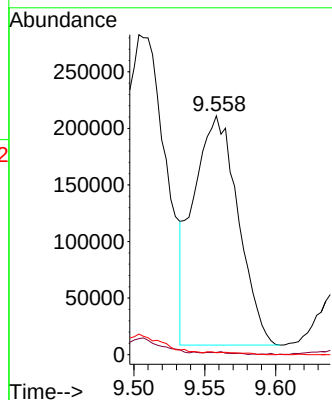
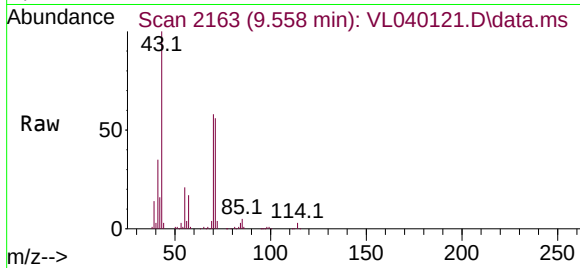




#51
2-Hexanone
Concen: 2.918 ppbv
RT: 9.558 min Scan# 2162
Delta R.T. 0.003 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

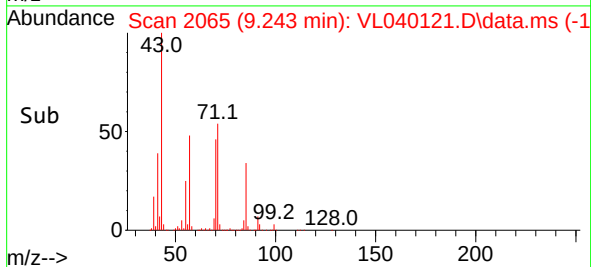
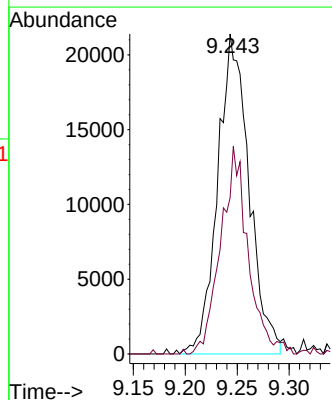
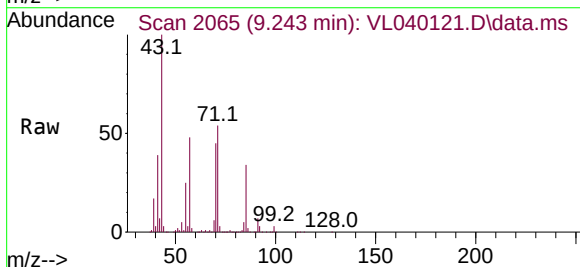
Instrument :
MSVOA_1
ClientSampleId :
VP-1DL2

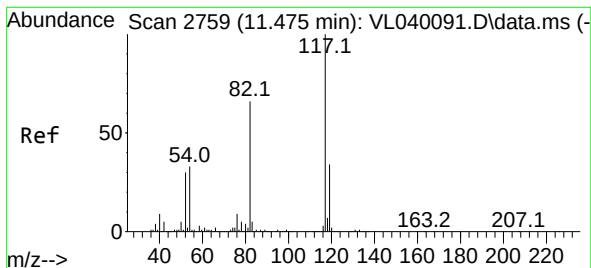
Tgt Ion: 43 Resp: 442283
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3#
98 0.0 0.4 0.6#



#53
Toluene
Concen: 0.211 ppbv
RT: 9.243 min Scan# 2065
Delta R.T. 0.019 min
Lab File: VL040121.D
Acq: 19 Jan 2023 20:06

Tgt Ion: 91 Resp: 44875
Ion Ratio Lower Upper
91 100
92 56.8 48.3 72.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.497 min Scan# 21

Delta R.T. 0.022 min

Lab File: VL040121.D

Acq: 19 Jan 2023 20:06

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL2

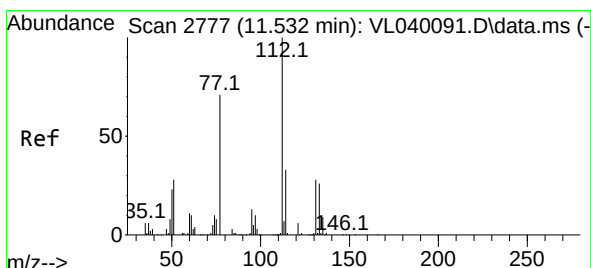
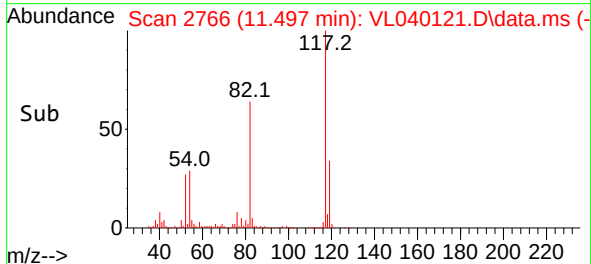
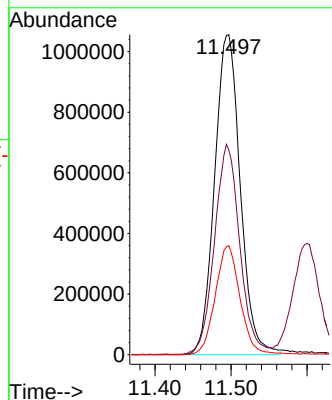
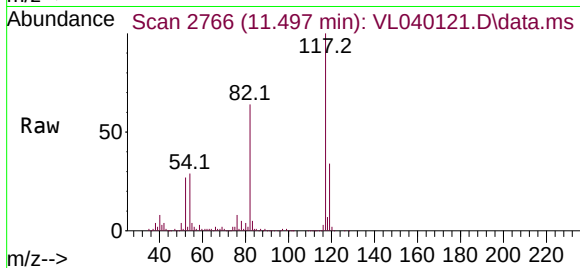
Tgt Ion:117 Resp: 2473516

Ion Ratio Lower Upper

117 100

82 65.2 54.4 81.6

119 33.2 26.8 40.2



#57

Chlorobenzene

Concen: 0.055 ppbv

RT: 11.555 min Scan# 2784

Delta R.T. 0.022 min

Lab File: VL040121.D

Acq: 19 Jan 2023 20:06

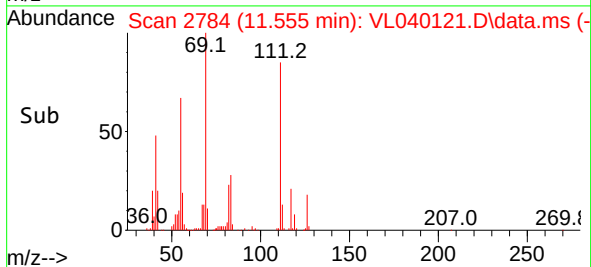
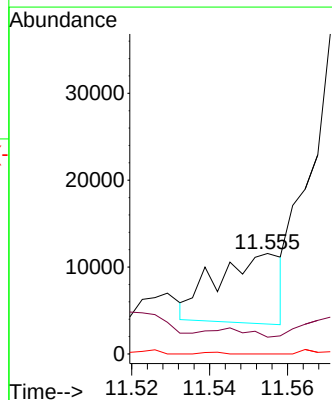
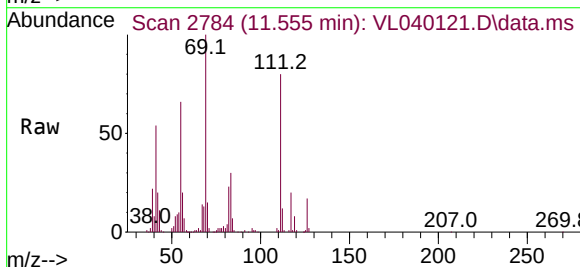
Tgt Ion:112 Resp: 9233

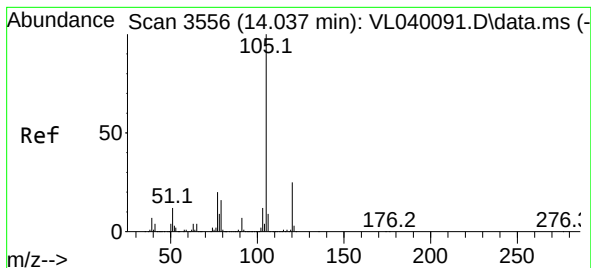
Ion Ratio Lower Upper

112 100

77 0.0 57.3 85.9#

114 0.0 29.6 36.2#





#62

Isopropylbenzene

Concen: 0.549 ppbv

RT: 14.056 min Scan# 3556

Delta R.T. 0.019 min

Lab File: VL040121.D

Acq: 19 Jan 2023 20:06

Instrument :

MSVOA_L

ClientSampleId :

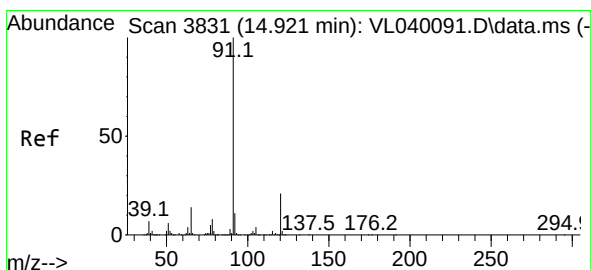
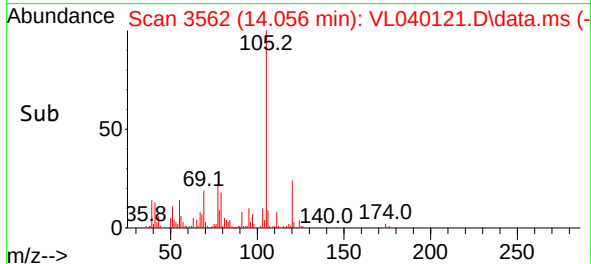
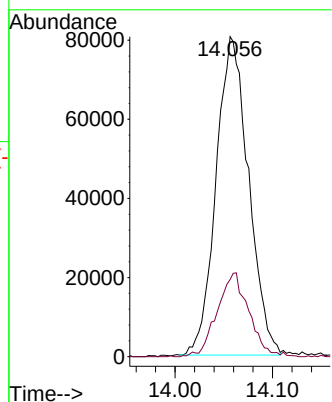
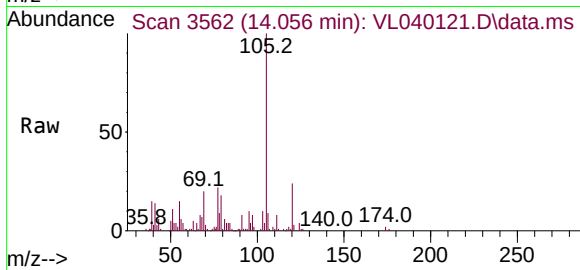
VP-1DL2

Tgt Ion:105 Resp: 186069

Ion Ratio Lower Upper

105 100

120 25.7 20.2 30.2



#64

n-propylbenzene

Concen: 0.181 ppbv

RT: 14.953 min Scan# 3841

Delta R.T. 0.032 min

Lab File: VL040121.D

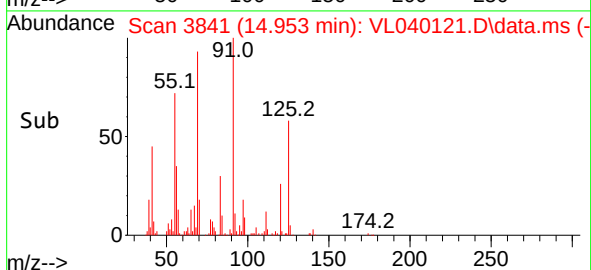
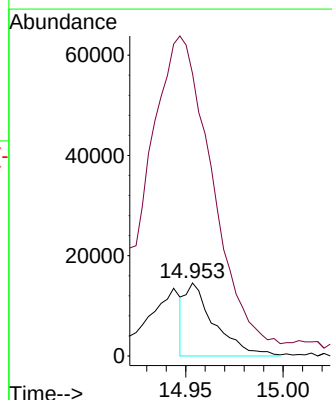
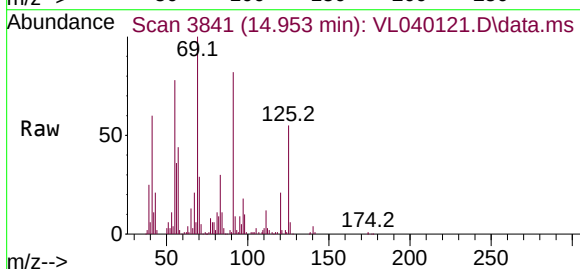
Acq: 19 Jan 2023 20:06

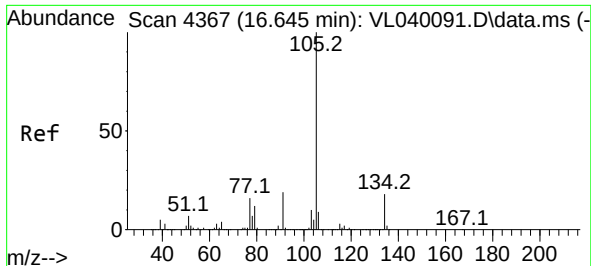
Tgt Ion:120 Resp: 15274

Ion Ratio Lower Upper

120 100

91 0.0 397.0 595.4#

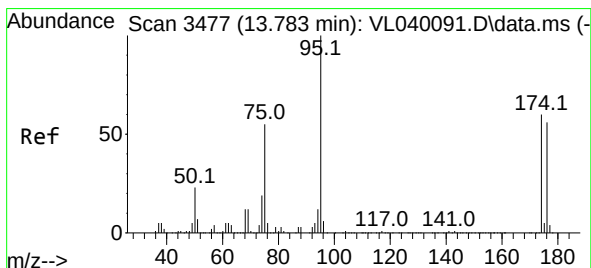
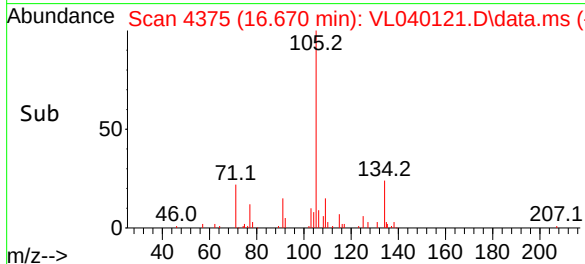
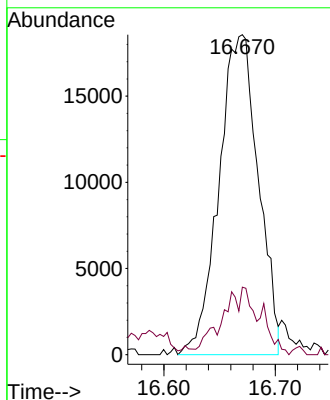
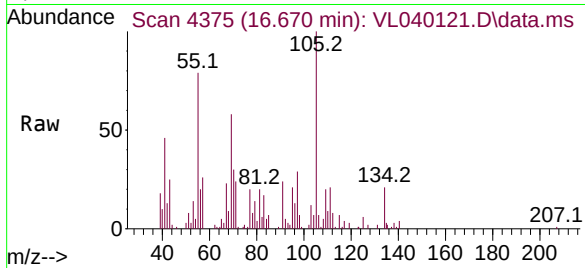




#67
 sec-Butylbenzene
 Concen: 0.111 ppbv
 RT: 16.670 min Scan# 41
 Delta R.T. 0.026 min
 Lab File: VL040121.D
 Acq: 19 Jan 2023 20:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VP-1DL2

Tgt Ion:105 Resp: 45664
 Ion Ratio Lower Upper
 105 100
 134 21.2 14.1 21.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.233 ppbv
 RT: 13.809 min Scan# 3485
 Delta R.T. 0.026 min
 Lab File: VL040121.D
 Acq: 19 Jan 2023 20:06

Tgt Ion: 95 Resp: 2103567
 Ion Ratio Lower Upper
 95 100
 174 60.9 47.7 71.5
 175 4.4 3.4 5.2

