

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022123\
 Data File : VL040204.D
 Acq On : 21 Feb 2023 21:09
 Operator : SY/MD
 Sample : 01626-05DL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-21DL

Quant Time: Feb 22 03:27:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 22 03:17:31 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	872145	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.658	114	2241111	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.478	117	2023266	10.000	ppbv	-0.02

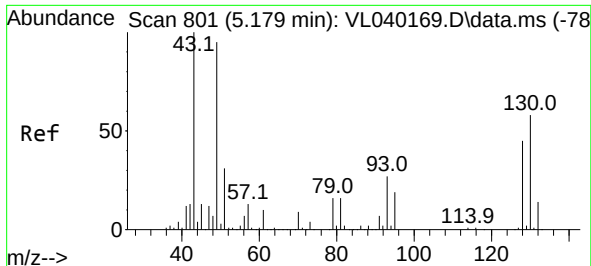
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1668845	10.031	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.645	51	194043	1.862	ppbv #	63
4) Chloromethane	2.809	50	7344	0.112	ppbv	89
9) Propene	2.867	41	87889	2.070	ppbv	99
13) Ethanol	3.230	45	804705	205.825	ppbv	94
15) Acetone	3.468	43	325333	3.098	ppbv	98
16) 1,3-Butadiene	2.967	39	3778	0.079	ppbv #	42
19) Isopropyl Alcohol	3.574	45	647816	12.979	ppbv #	97
20) Methylene Chloride	3.931	84	56087	1.026	ppbv	94
23) Vinyl Acetate	4.635	43	2403	0.075	ppbv #	65
25) Ethyl Acetate	5.214	43	38176	0.196	ppbv #	93
26) Hexane	5.214	57	35905	0.428	ppbv #	52
34) 2-Butanone	4.793	43	12806	0.116	ppbv	93
36) Benzene	6.372	78	33898	0.194	ppbv	98
39) 1,2-Dichloropropane	6.655	63	565237	8.331	ppbv #	26
44) 2,2,4-Trimethylpentane	7.333	57	16075	0.055	ppbv #	61
53) Toluene	9.230	91	68172	0.365	ppbv	96
58) Ethyl Benzene	12.095	91	10983	0.045	ppbv	92
60) o-Xylene	13.069	91	6641	0.032	ppbv #	33

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

Quant Time: Feb 22 03:27:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 22 03:17:31 2023
Response via : Initial Calibration

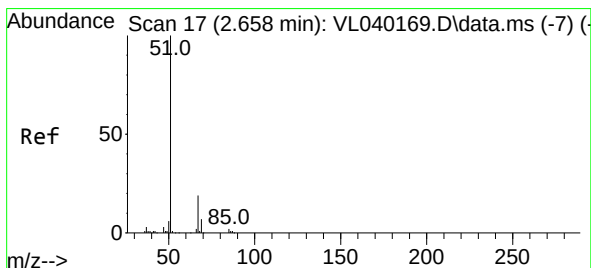
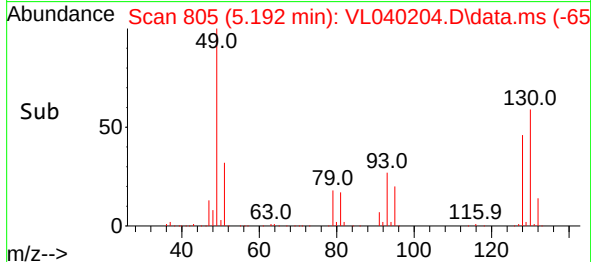
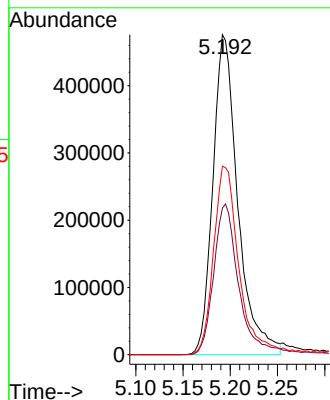
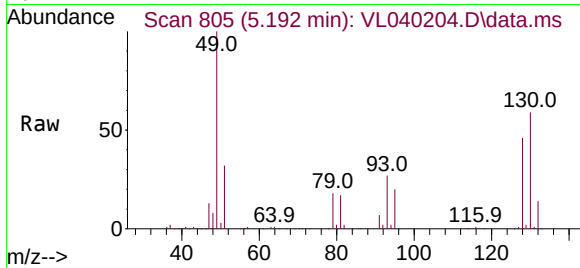




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

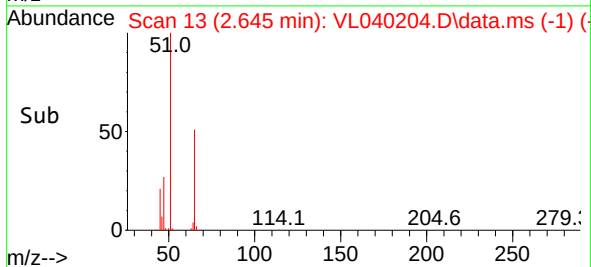
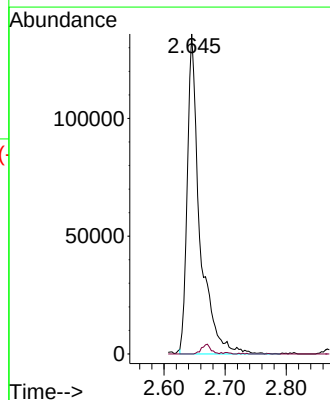
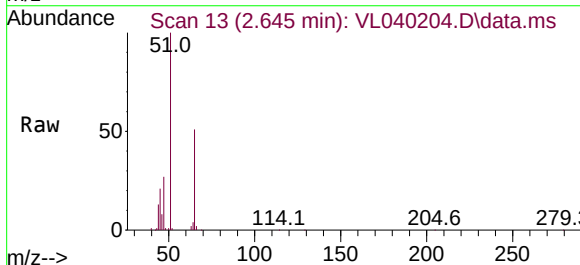
Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

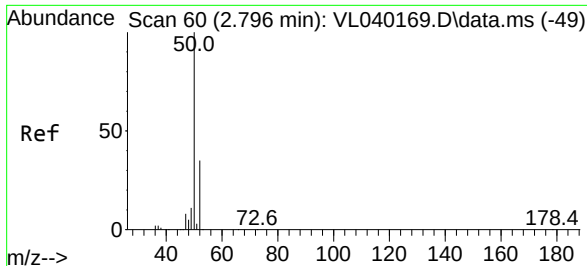
Tgt Ion: 49 Resp: 872145
Ion Ratio Lower Upper
49 100
128 49.0 24.1 72.3
130 62.1 30.9 92.8



#3
Chlorodifluoromethane
Concen: 1.862 ppbv
RT: 2.645 min Scan# 13
Delta R.T. -0.029 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 51 Resp: 194043
Ion Ratio Lower Upper
51 100
67 2.6 15.4 23.2#

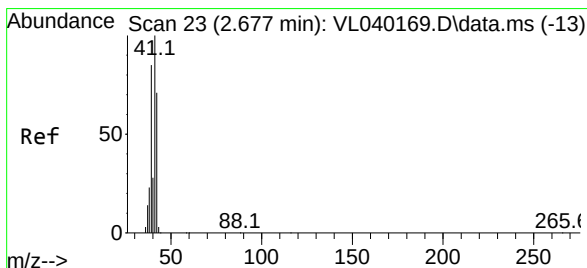
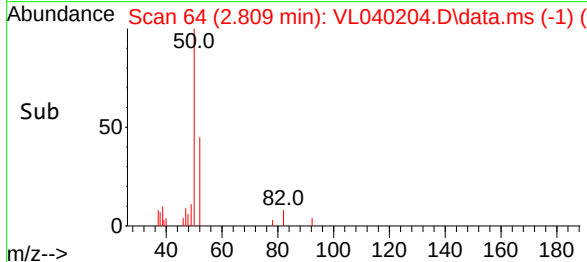
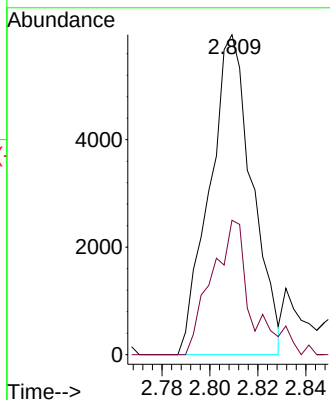
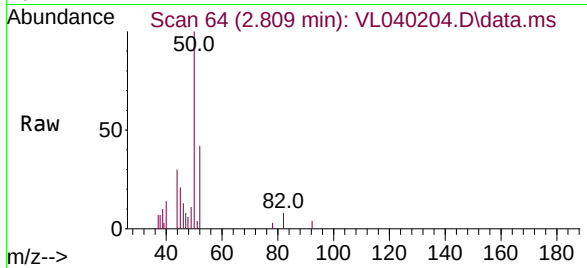




#4
Chloromethane
Concen: 0.112 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.003 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

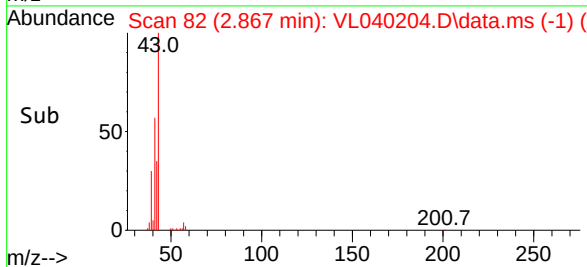
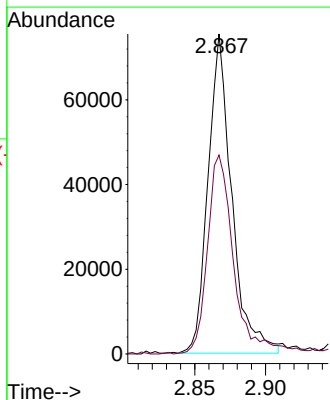
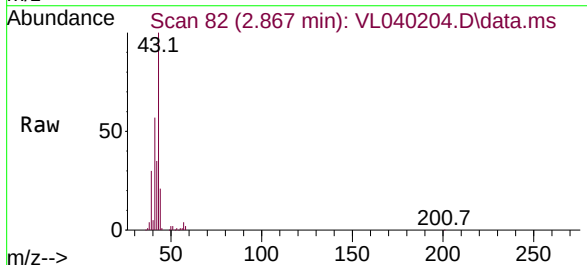
Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

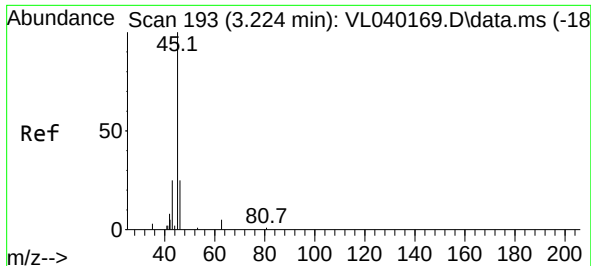
Tgt Ion: 50 Resp: 7344
Ion Ratio Lower Upper
50 100
52 42.0 28.3 42.5



#9
Propene
Concen: 2.070 ppbv
RT: 2.867 min Scan# 82
Delta R.T. 0.174 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 41 Resp: 87889
Ion Ratio Lower Upper
41 100
42 71.9 56.9 85.3

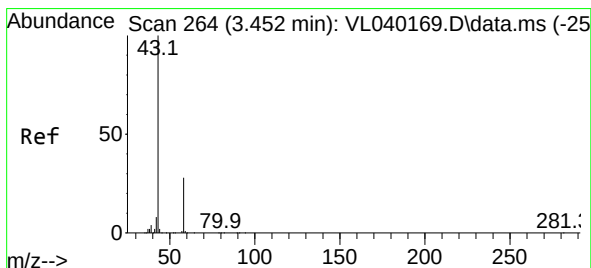
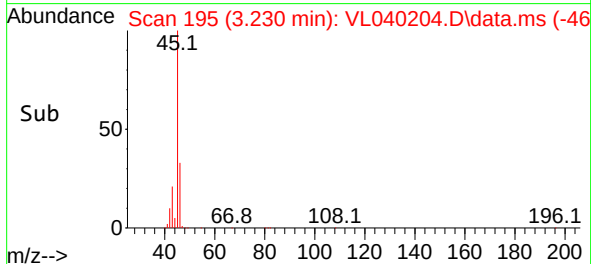
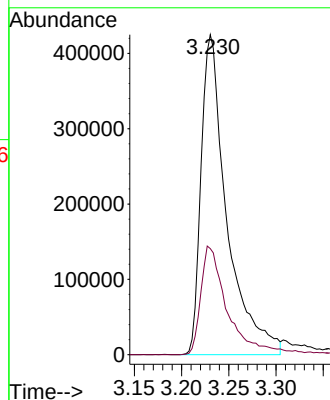
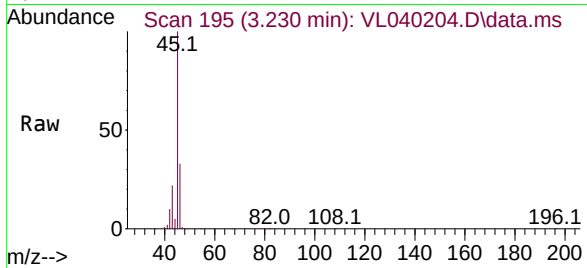




#13
Ethanol
Concen: 205.825 ppbv
RT: 3.230 min Scan# 193
Delta R.T. -0.019 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

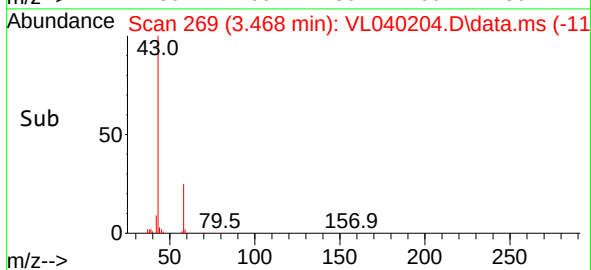
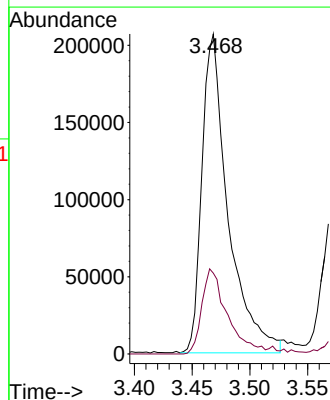
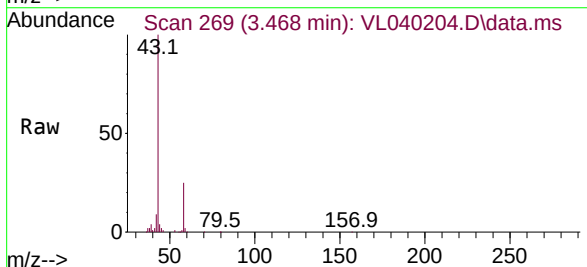
Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

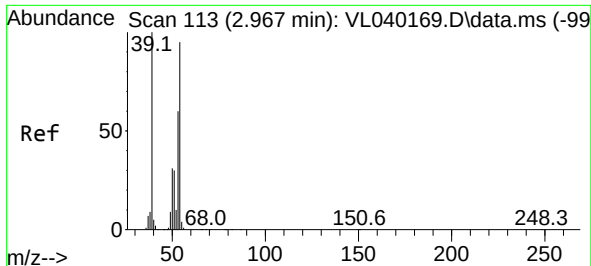
Tgt Ion: 45 Resp: 804705
Ion Ratio Lower Upper
45 100
46 36.5 13.3 53.1



#15
Acetone
Concen: 3.098 ppbv
RT: 3.468 min Scan# 269
Delta R.T. -0.003 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 43 Resp: 325333
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

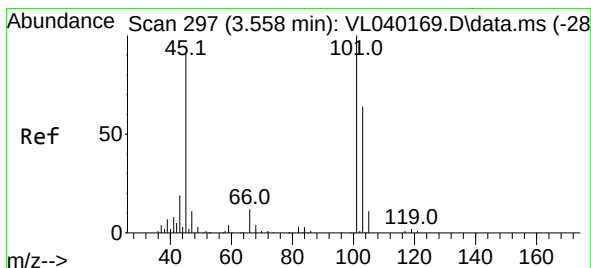
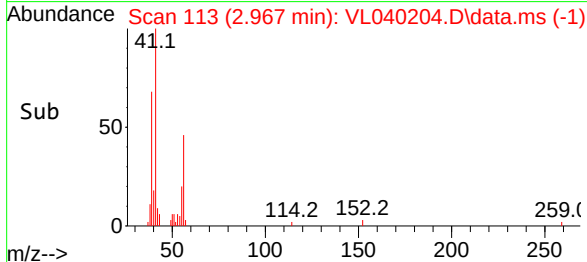
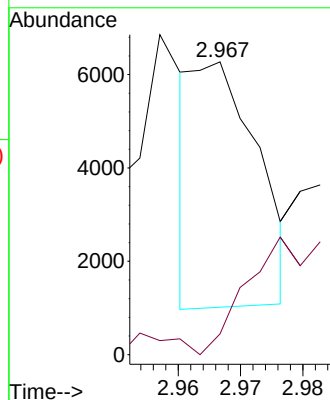
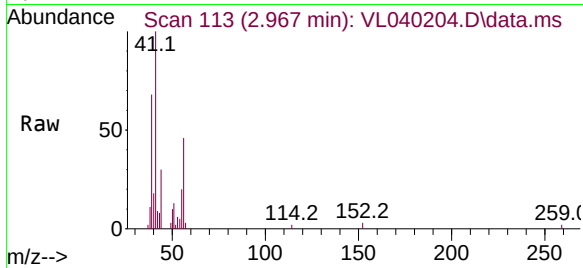




#16
1,3-Butadiene
Concen: 0.079 ppbv
RT: 2.967 min Scan# 113
Delta R.T. -0.019 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

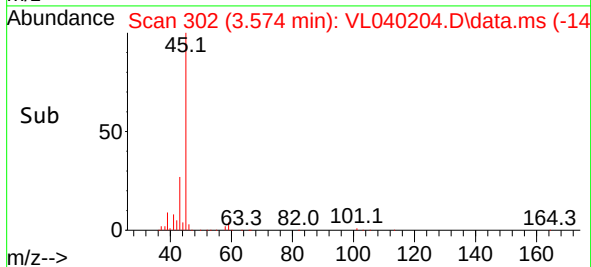
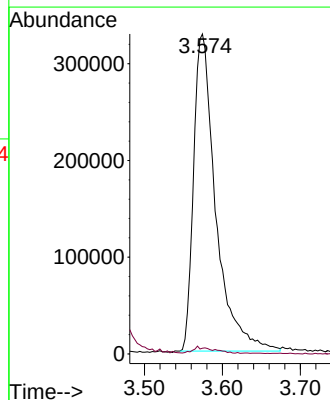
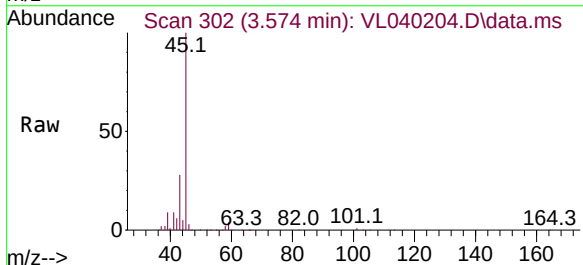
Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

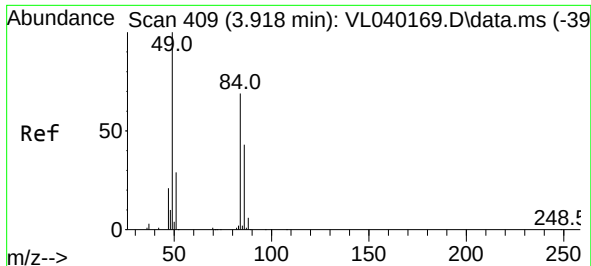
Tgt Ion: 39 Resp: 3778
Ion Ratio Lower Upper
39 100
54 136.0 66.7 100.1#



#19
Isopropyl Alcohol
Concen: 12.979 ppbv
RT: 3.574 min Scan# 302
Delta R.T. -0.007 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 45 Resp: 647816
Ion Ratio Lower Upper
45 100
58 2.3 2.6 3.8#





#20

Methylene Chloride

Concen: 1.026 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.007 min

Lab File: VL040204.D

Acq: 21 Feb 2023 21:09

Instrument :

MSVOA_L

ClientSampleId :

IA-21DL

Tgt Ion: 84 Resp: 56087

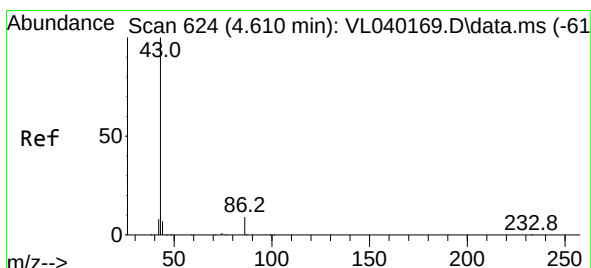
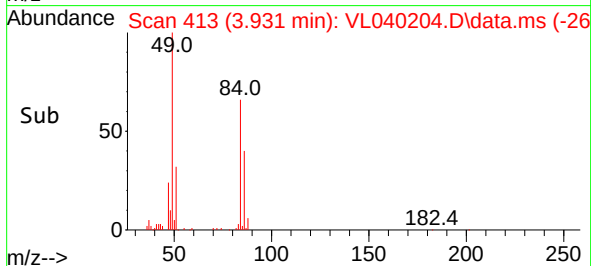
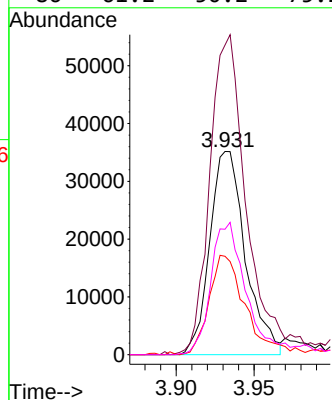
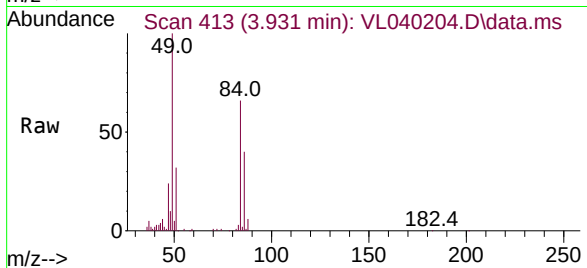
Ion Ratio Lower Upper

84 100

49 151.2 115.5 173.3

51 48.4 33.1 49.7

86 61.2 50.2 75.2



#23

Vinyl Acetate

Concen: 0.075 ppbv

RT: 4.635 min Scan# 632

Delta R.T. -0.003 min

Lab File: VL040204.D

Acq: 21 Feb 2023 21:09

Tgt Ion: 43 Resp: 2403

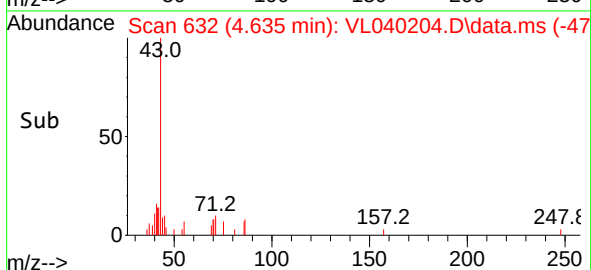
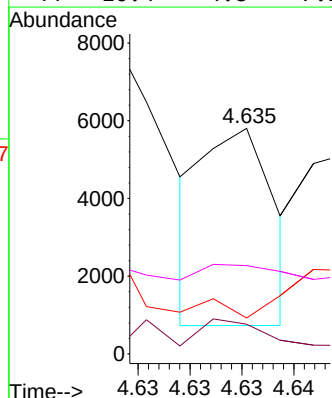
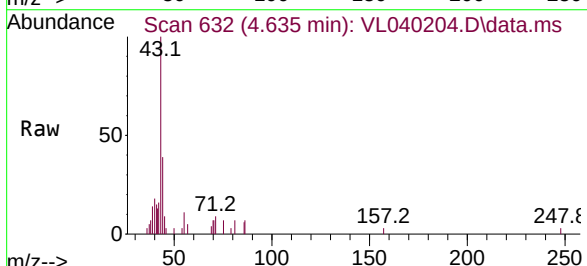
Ion Ratio Lower Upper

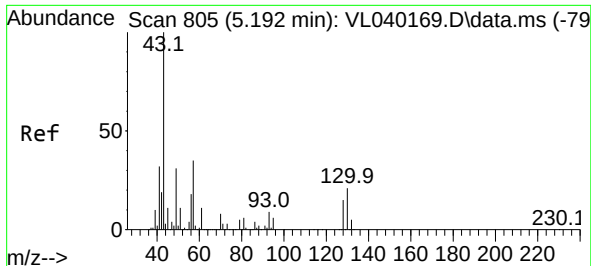
43 100

86 24.7 5.6 8.4#

42 0.0 7.6 11.4#

44 16.4 4.8 7.2#

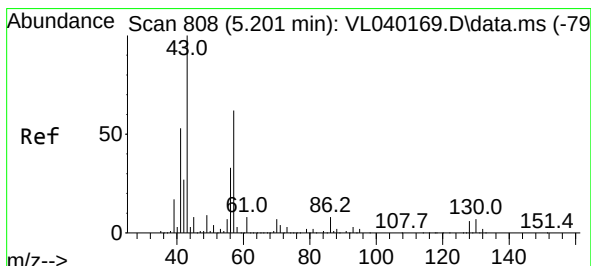
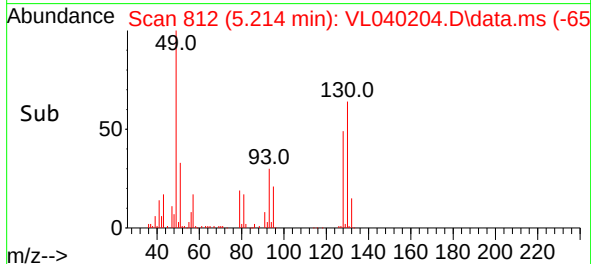
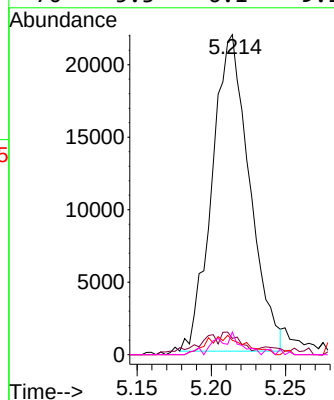
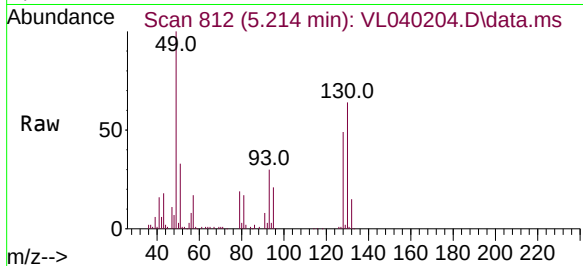




#25
Ethyl Acetate
Concen: 0.196 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.003 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

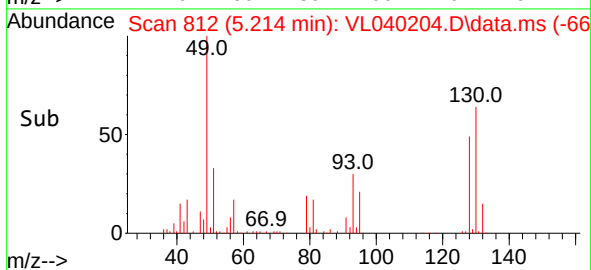
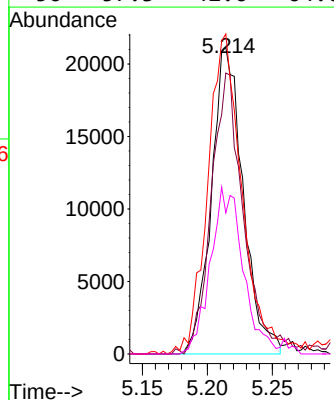
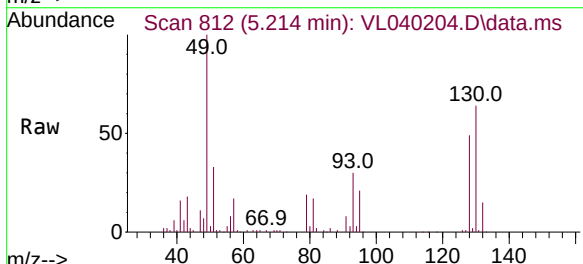
Instrument :
MSVOA_L
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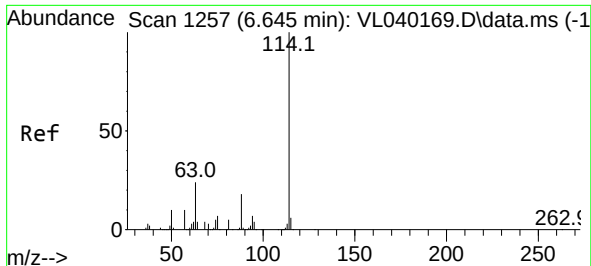
Tgt Ion: 43	Resp: 38176
Ion Ratio	Lower Upper
43 100	
45 8.9	8.3 12.5
61 6.5	8.4 12.6#
70 5.3	6.1 9.1#



#26
Hexane
Concen: 0.428 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.010 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 57	Resp: 35905
Ion Ratio	Lower Upper
57 100	
41 96.5	74.3 111.5
43 113.9	193.0 289.4#
56 57.3	42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 114

Delta R.T. -0.016 min

Lab File: VL040204.D

Acq: 21 Feb 2023 21:09

Instrument :

MSVOA_L

ClientSampleId :

IA-21DL

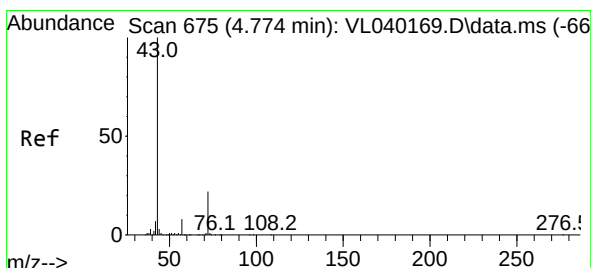
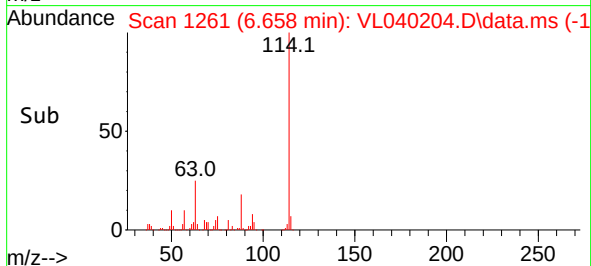
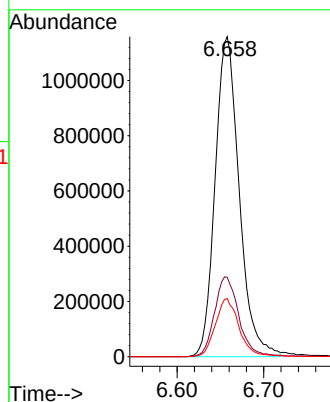
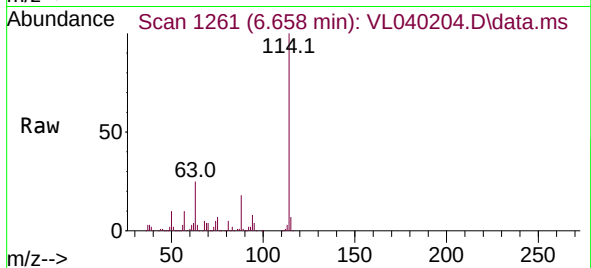
Tgt Ion:114 Resp: 2241111

Ion Ratio Lower Upper

114 100

63 25.5 20.4 30.6

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 0.116 ppbv

RT: 4.793 min Scan# 681

Delta R.T. -0.003 min

Lab File: VL040204.D

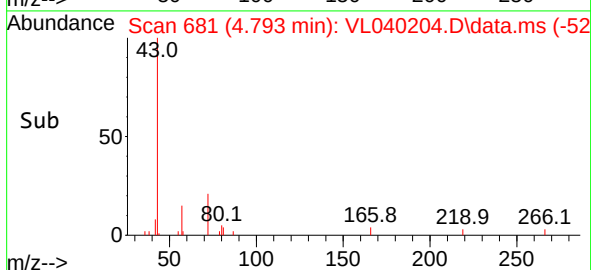
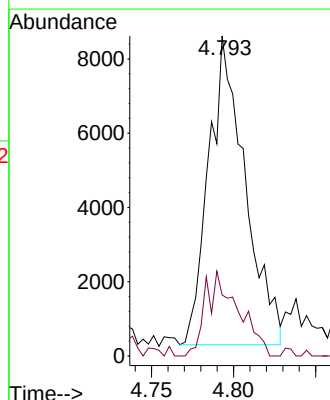
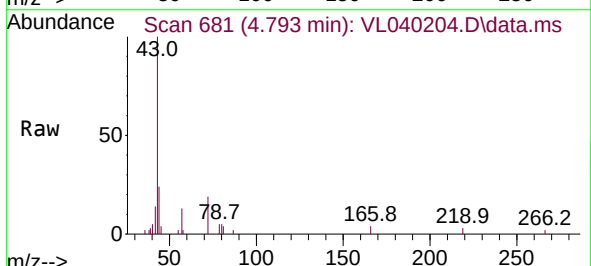
Acq: 21 Feb 2023 21:09

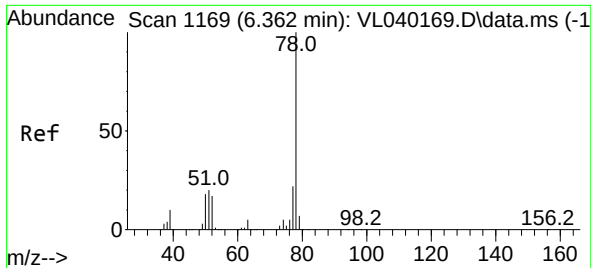
Tgt Ion: 43 Resp: 12806

Ion Ratio Lower Upper

43 100

72 25.6 17.8 26.8





#36

Benzene

Concen: 0.194 ppbv

RT: 6.372 min Scan# 1169

Delta R.T. -0.016 min

Lab File: VL040204.D

Acq: 21 Feb 2023 21:09

Instrument :

MSVOA_L

ClientSampleId :

IA-21DL

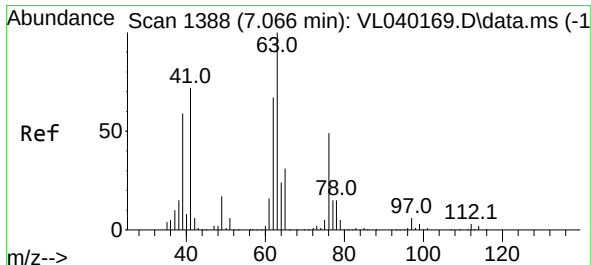
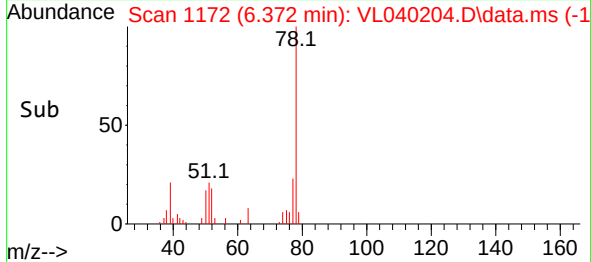
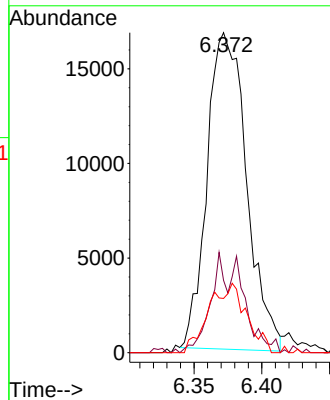
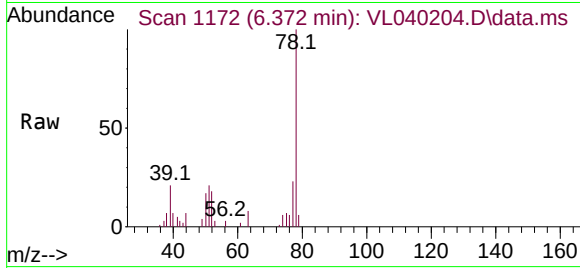
Tgt Ion: 78 Resp: 33898

Ion Ratio Lower Upper

78 100

77 23.0 17.5 26.3

50 17.3 14.6 22.0



#39

1,2-Dichloropropane

Concen: 8.331 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. -0.441 min

Lab File: VL040204.D

Acq: 21 Feb 2023 21:09

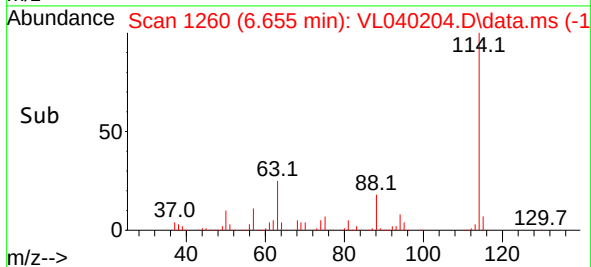
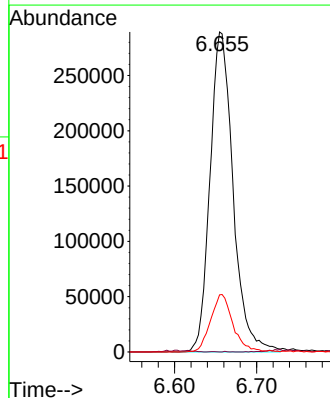
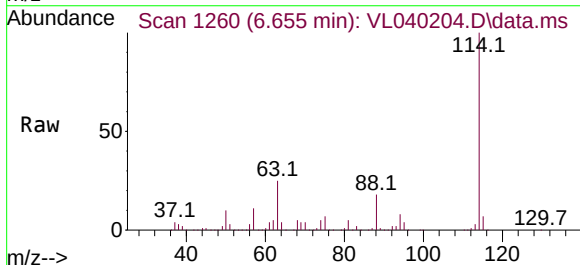
Tgt Ion: 63 Resp: 565237

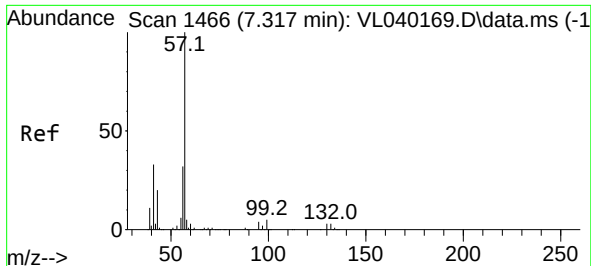
Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 17.8 54.0 81.0#

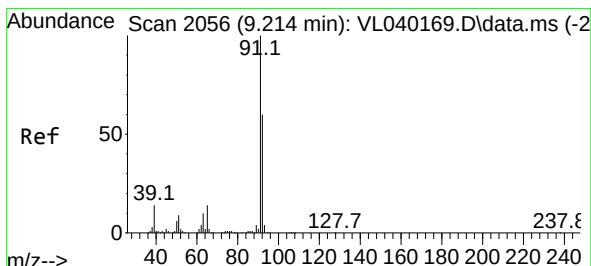
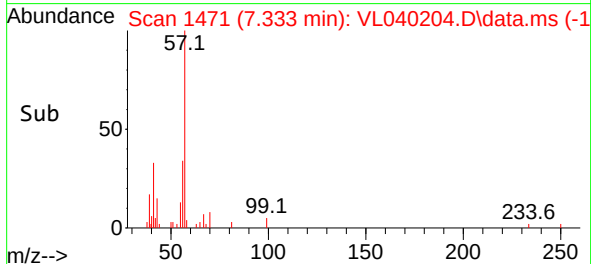
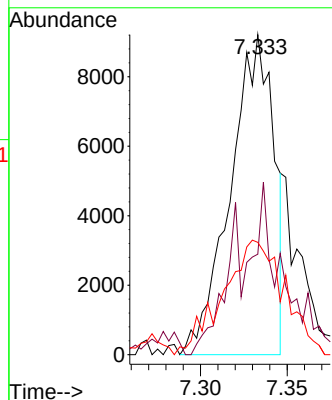
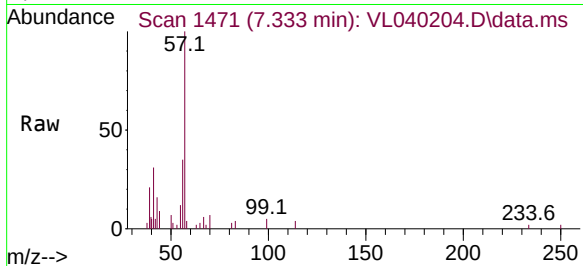




#44
2,2,4-Trimethylpentane
Concen: 0.055 ppbv
RT: 7.333 min Scan# 1466
Delta R.T. -0.013 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

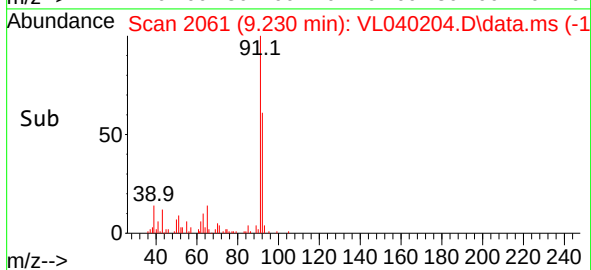
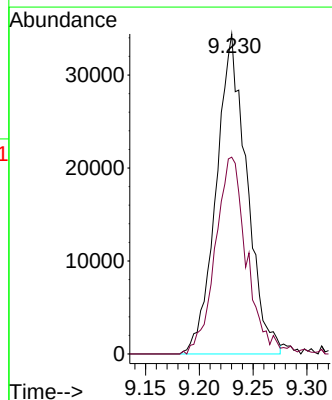
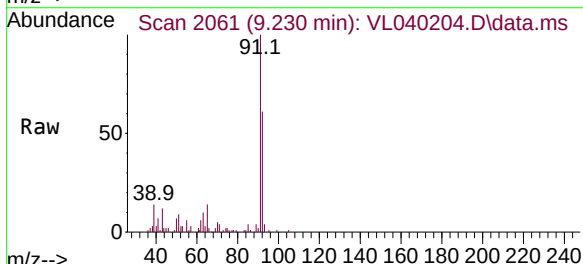
Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

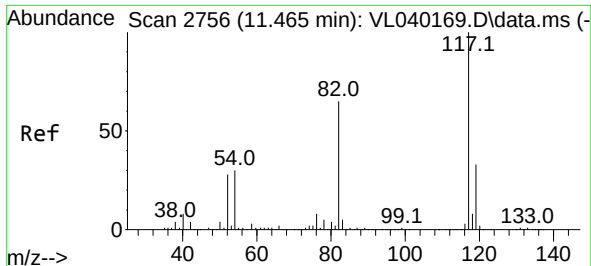
Tgt Ion: 57 Resp: 16075
Ion Ratio Lower Upper
57 100
41 56.8 26.2 39.4#
56 50.9 24.9 37.3#



#53
Toluene
Concen: 0.365 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. -0.016 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 91 Resp: 68172
Ion Ratio Lower Upper
91 100
92 64.1 48.9 73.3

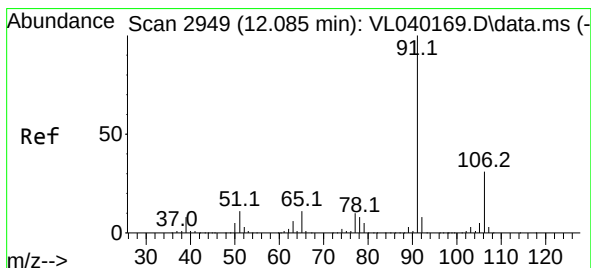
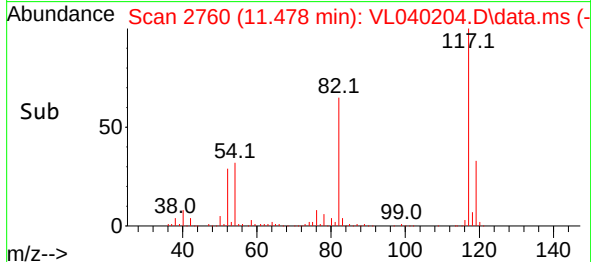
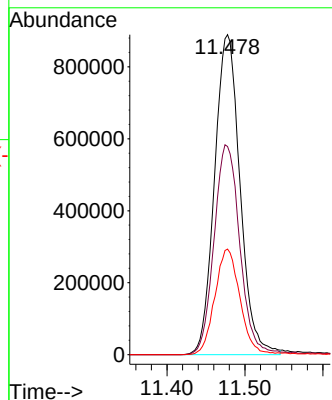
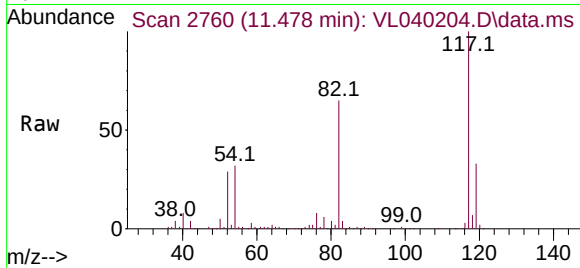




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

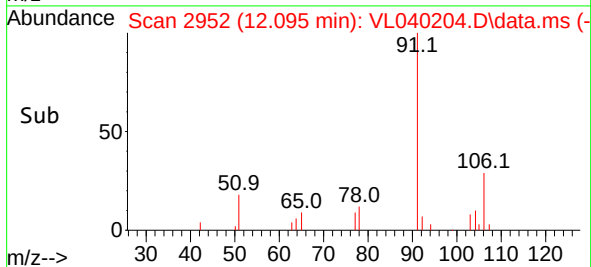
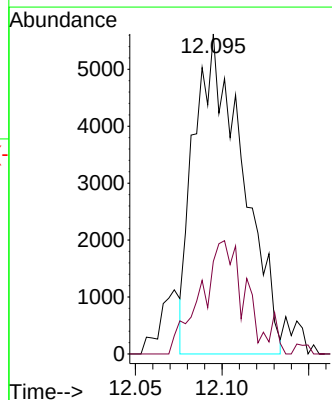
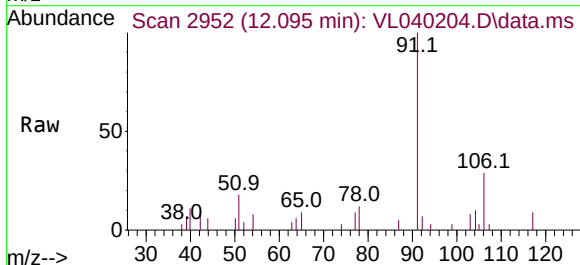
Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

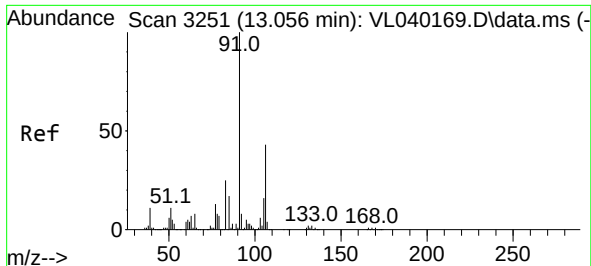
Tgt Ion:117 Resp: 2023266
Ion Ratio Lower Upper
117 100
82 67.5 53.3 79.9
119 33.2 24.6 37.0



#58
Ethyl Benzene
Concen: 0.045 ppbv
RT: 12.095 min Scan# 2952
Delta R.T. -0.023 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 91 Resp: 10983
Ion Ratio Lower Upper
91 100
106 26.7 24.9 37.3

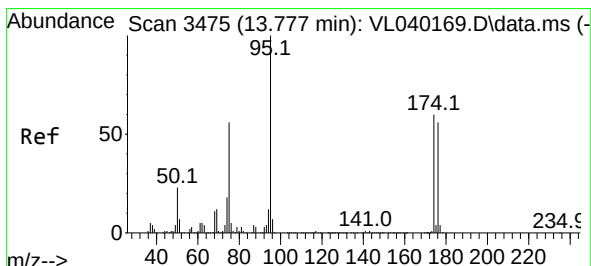
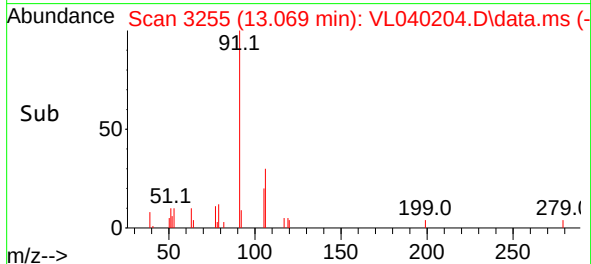
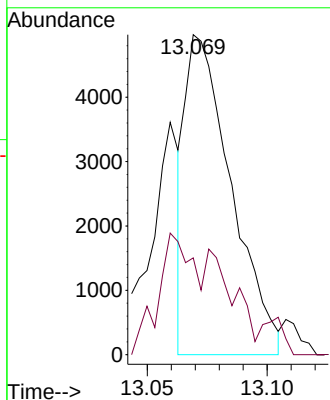
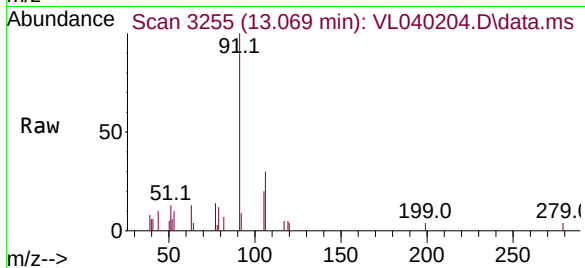




#60
o-Xylene
Concen: 0.032 ppbv
RT: 13.069 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Instrument :
MSVOA_L
ClientSampleId :
IA-21DL

Tgt Ion: 91 Resp: 6641
Ion Ratio Lower Upper
91 100
106 0.0 21.6 65.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.031 ppbv
RT: 13.789 min Scan# 3479
Delta R.T. -0.016 min
Lab File: VL040204.D
Acq: 21 Feb 2023 21:09

Tgt Ion: 95 Resp: 1668845
Ion Ratio Lower Upper
95 100
174 59.3 48.2 72.2
175 4.0 3.4 5.2

