

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037300.D
 Acq On : 31 Jul 2021 2:38
 Operator : SY/AP
 Sample : M3121-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 03:29:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1101714	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3550916	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	3180840	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2306025	9.96	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

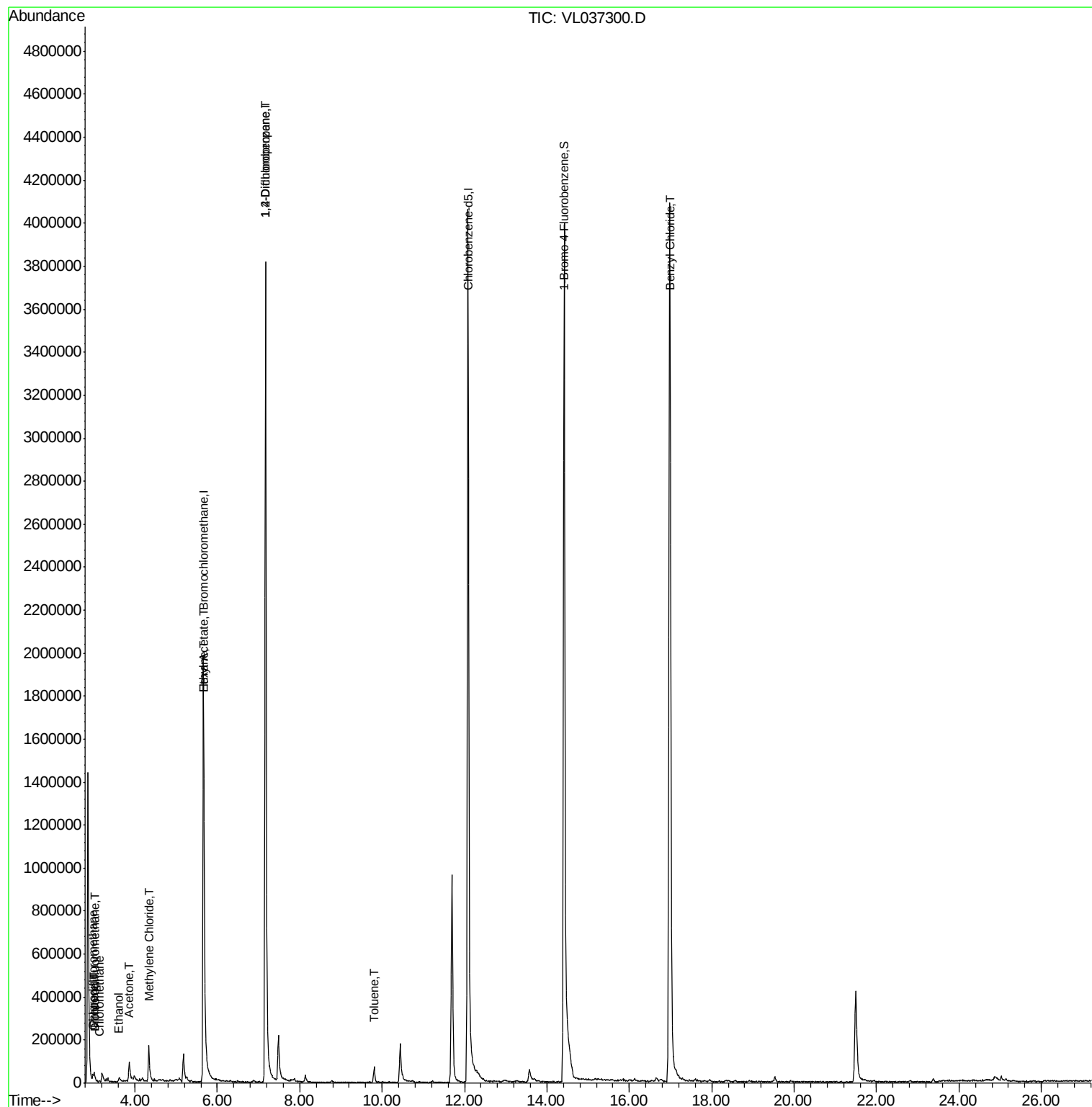
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	5716	0.036	ppbv	98
3) Chlorodifluoromethane	2.98	51	45819	0.208	ppbv	99
4) Chloromethane	3.13	50	4977	0.065	ppbv	96
9) Propene	3.01	41	8438	0.114	ppbv	85
13) Ethanol	3.62	45	22440	1.375	ppbv	74
15) Acetone	3.86	43	114911	0.579	ppbv #	54
20) Methylene Chloride	4.34	84	69272	0.902	ppbv	88
25) Ethyl Acetate	5.68	43	32340	0.112	ppbv #	81
26) Hexane	5.68	57	47952	0.312	ppbv #	52
39) 1,2-Dichloropropane	7.17	63	786398	6.956	ppbv #	26
53) Toluene	9.80	91	57689	0.163	ppbv	96
66) Benzyl Chloride	16.97	91	962	0.042	ppbv #	63

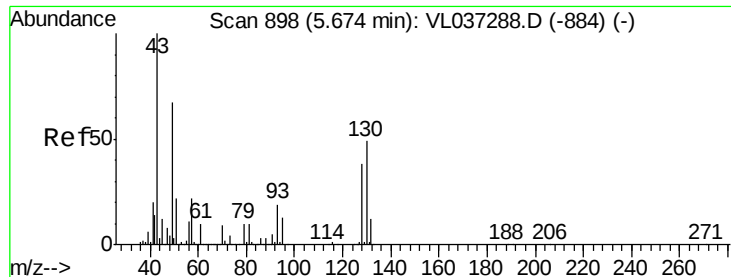
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 31 03:29:07 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
QLast Update : Fri Jul 30 23:19:30 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

Instrument :
MSVOA_L
ClientSampled :

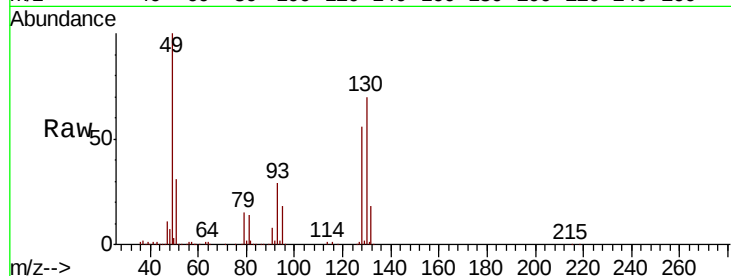
Tot Ion: 49 Resp: 1101714

Ion Ratio Lower Upper

49 100

128 62.5 30.6 92.0

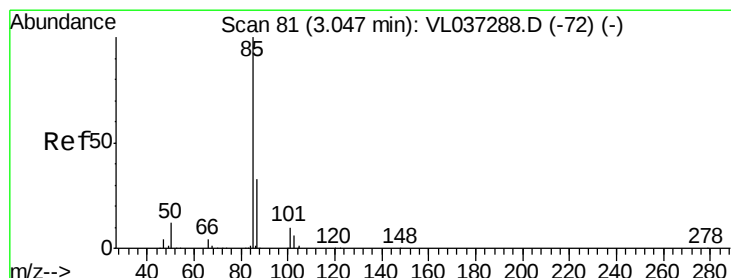
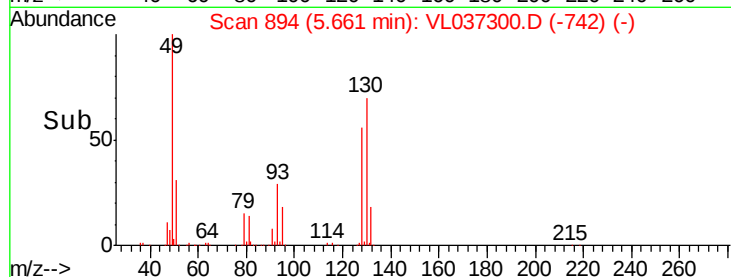
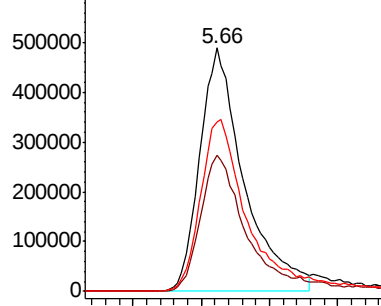
130 80.5 37.8 113.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL037300.D

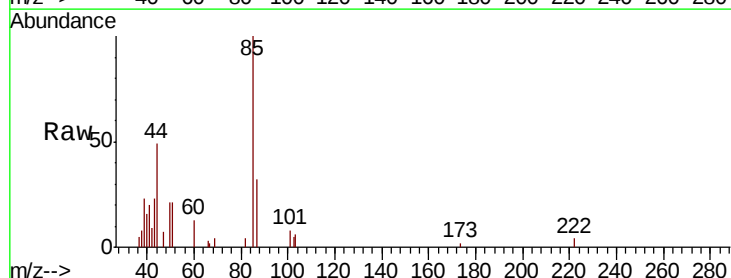
Acq: 31 Jul 2021 2:38

Tgt Ion: 85 Resp: 5716

Ion Ratio Lower Upper

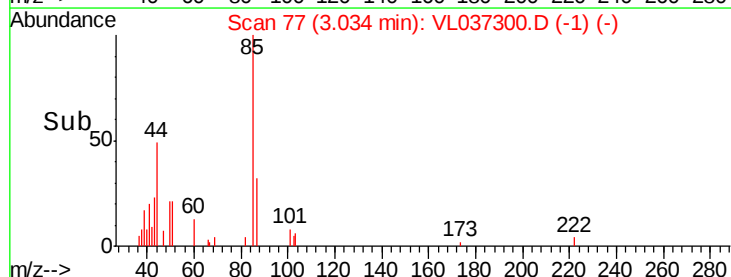
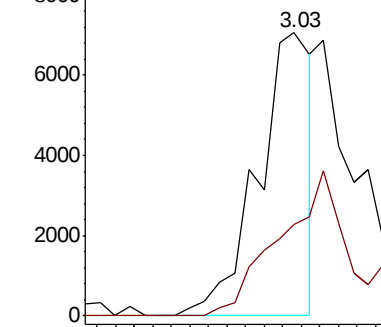
85 100

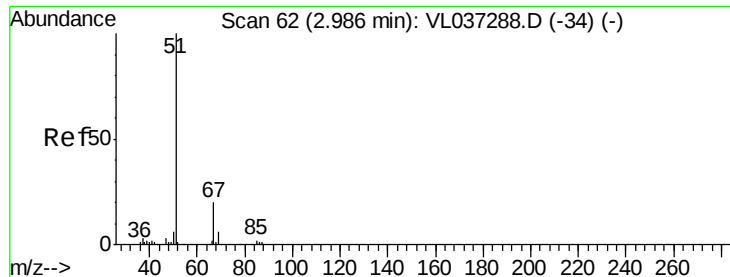
87 32.3 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.208 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

Instrument :

MSVOA_L

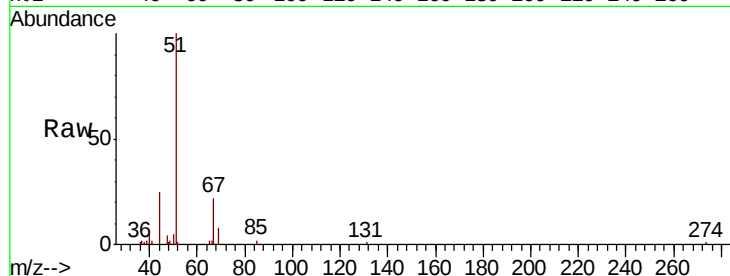
ClientSampleId :

Tot Ion: 51 Resp: 45819

Ion Ratio Lower Upper

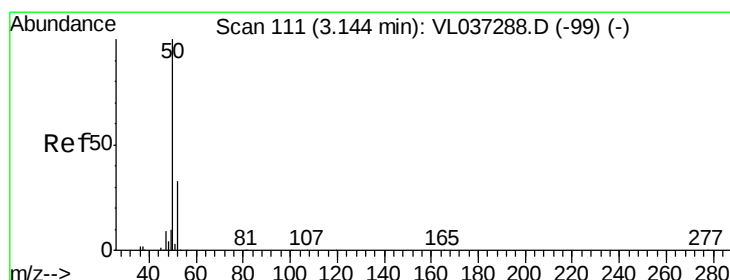
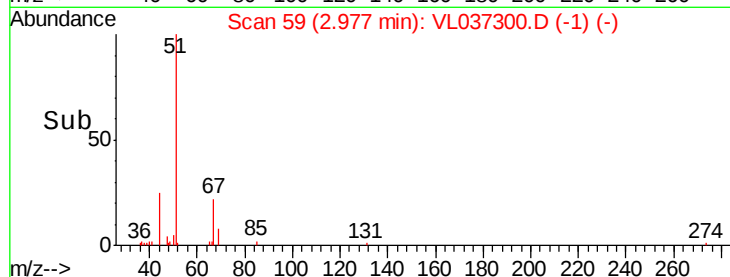
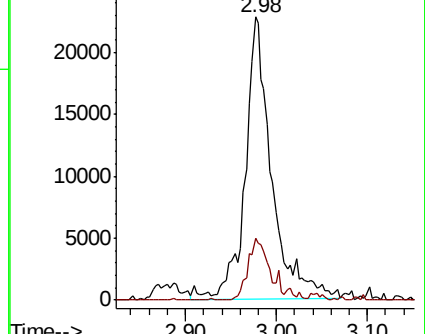
51 100

67 19.3 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.065 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037300.D

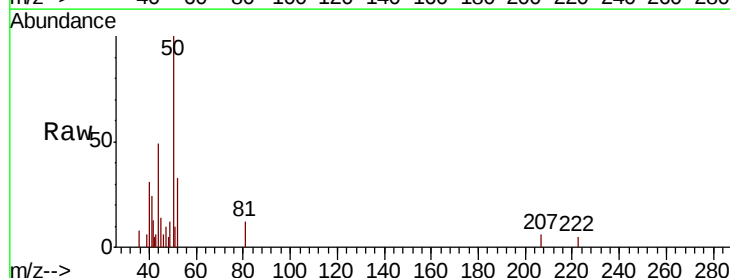
Acq: 31 Jul 2021 2:38

Tgt Ion: 50 Resp: 4977

Ion Ratio Lower Upper

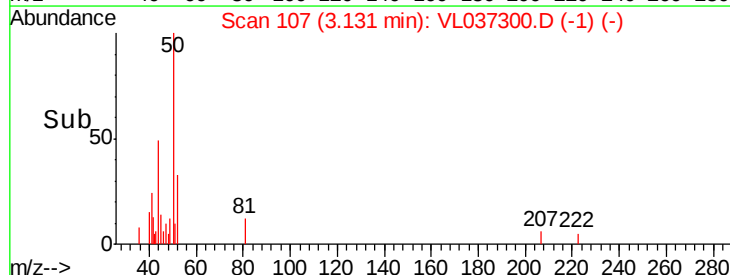
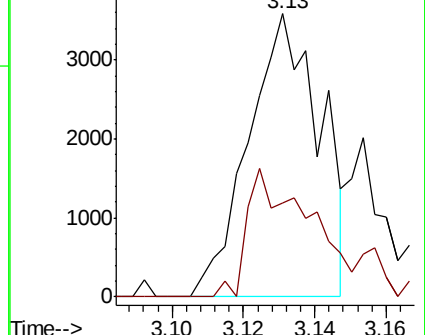
50 100

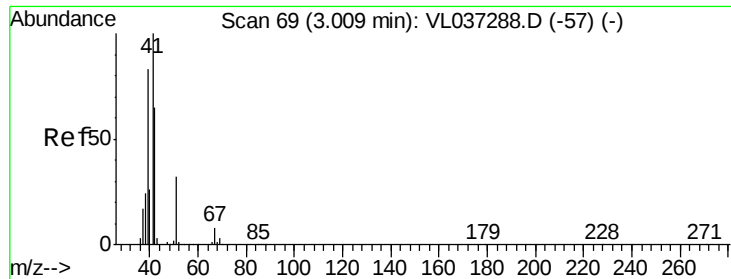
52 35.2 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.114 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

Instrument :

MSVOA_L

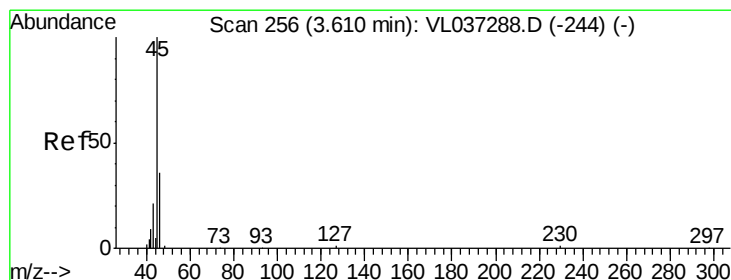
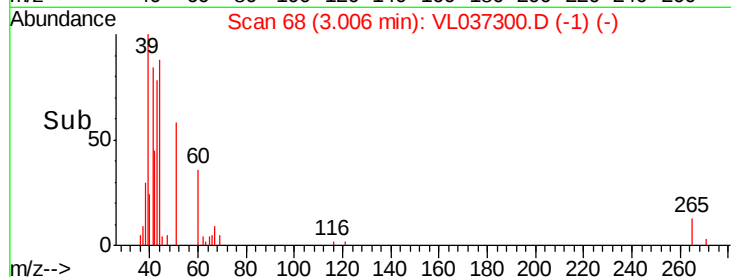
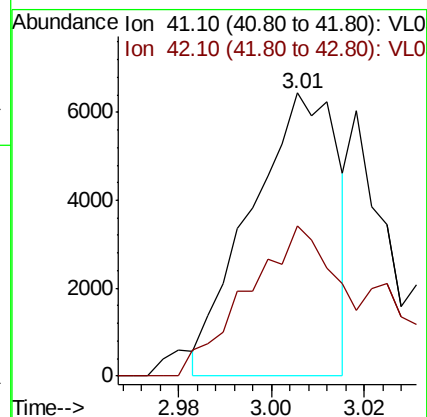
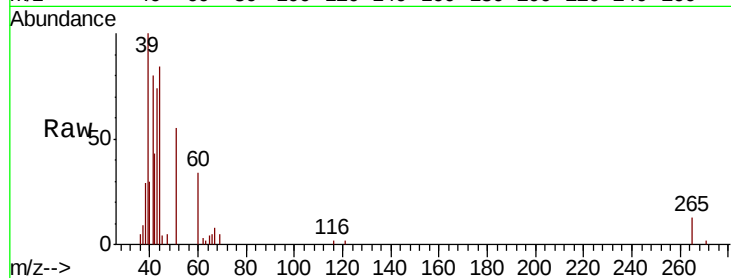
ClientSampleId :

Tot Ion: 41 Resp: 8438

Ion Ratio Lower Upper

41 100

42 79.9 54.0 81.0



#13

Ethanol

Concen: 1.375 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL037300.D

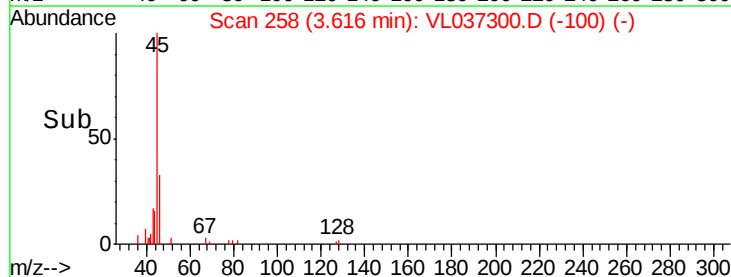
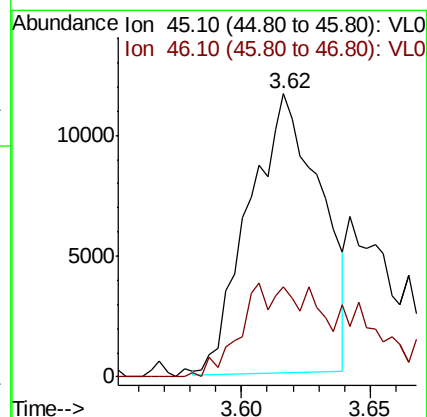
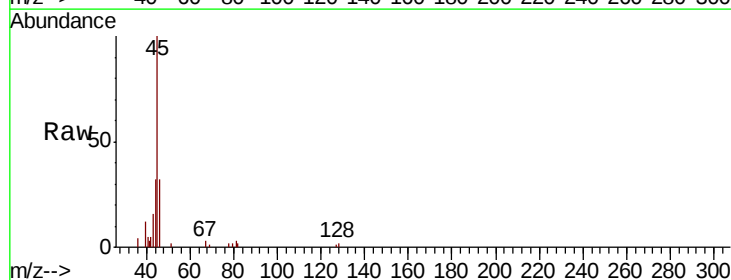
Acq: 31 Jul 2021 2:38

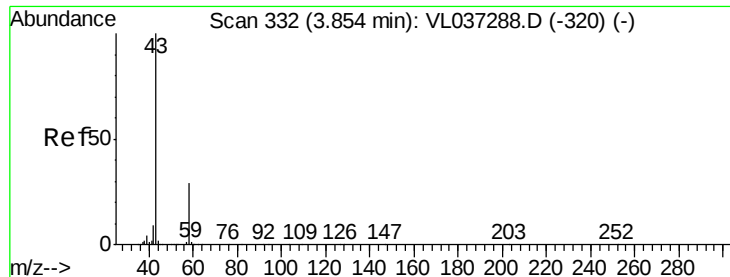
Tgt Ion: 45 Resp: 22440

Ion Ratio Lower Upper

45 100

46 56.7 16.2 64.8





#15

Acetone

Concen: 0.579 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

Instrument :

MSVOA_L

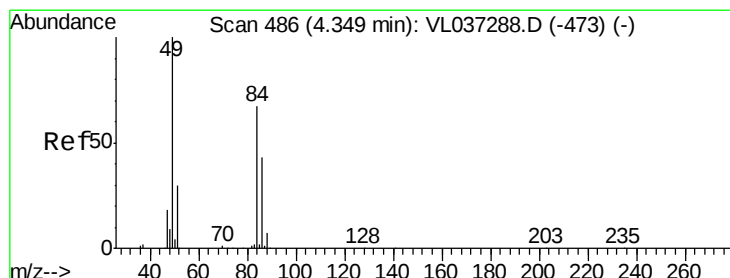
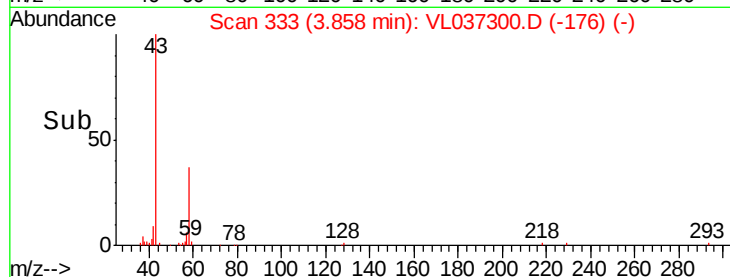
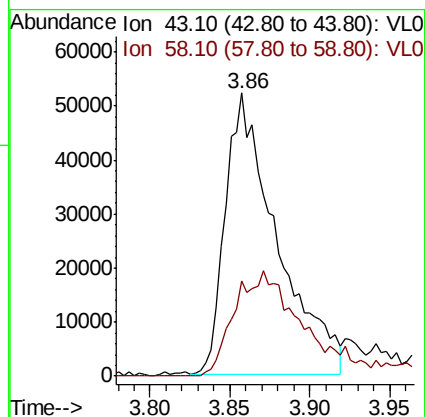
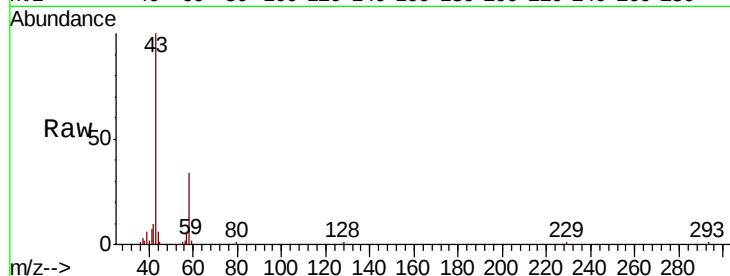
ClientSampled :

Tot Ion: 43 Resp: 114911

Ion Ratio Lower Upper

43 100

58 55.3 24.2 36.4#



#20

Methylene Chloride

Concen: 0.902 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

Tgt Ion: 84 Resp: 69272

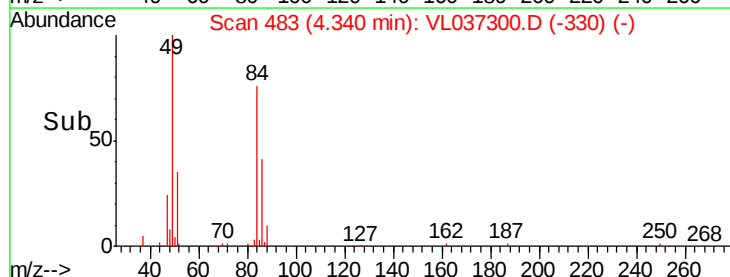
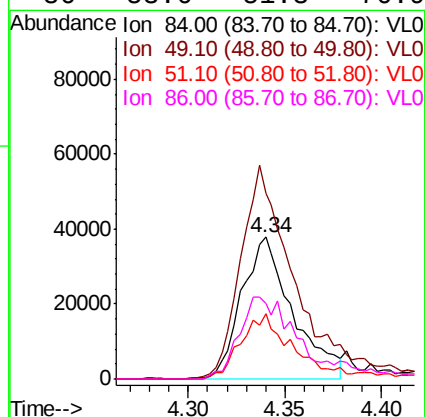
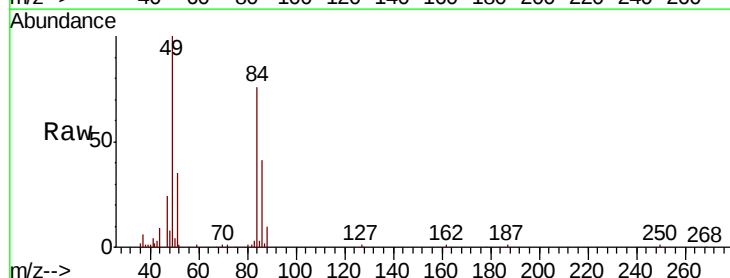
Ion Ratio Lower Upper

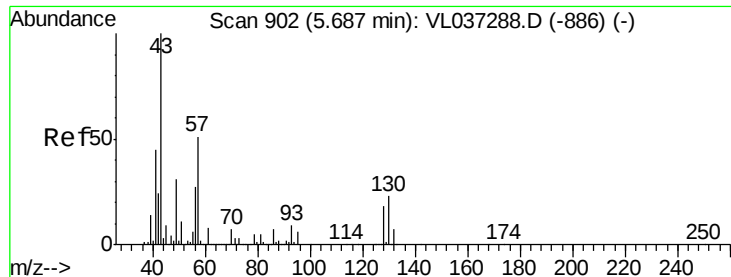
84 100

49 130.2 120.2 180.4

51 45.7 36.5 54.7

86 53.6 51.3 76.9

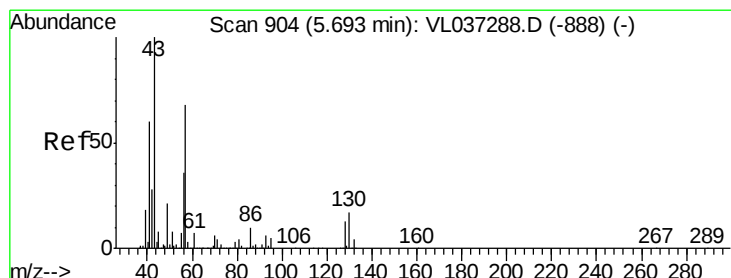
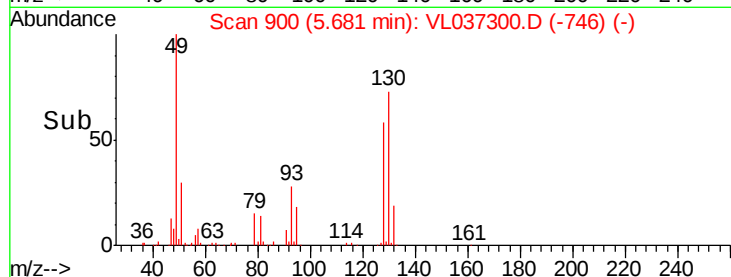
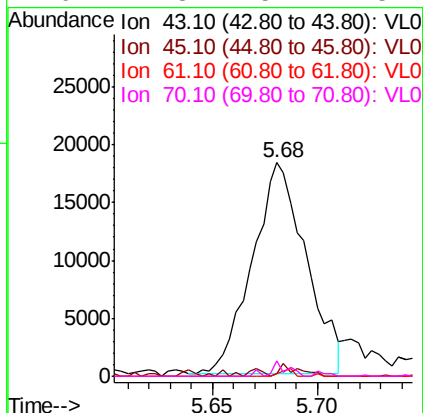
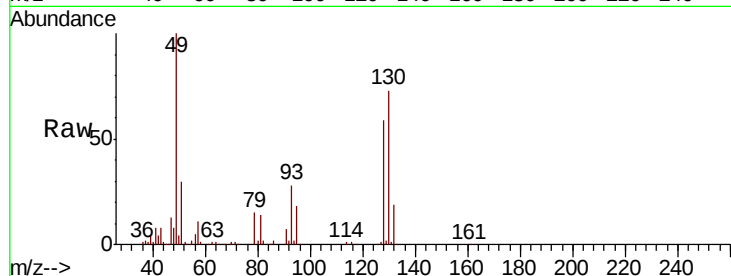




#25
Ethyl Acetate
Concen: 0.112 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037300.D
Acq: 31 Jul 2021 2:38

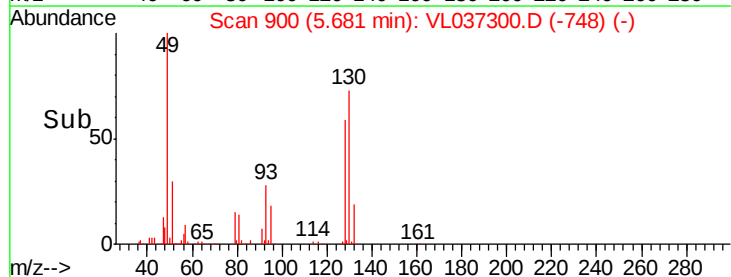
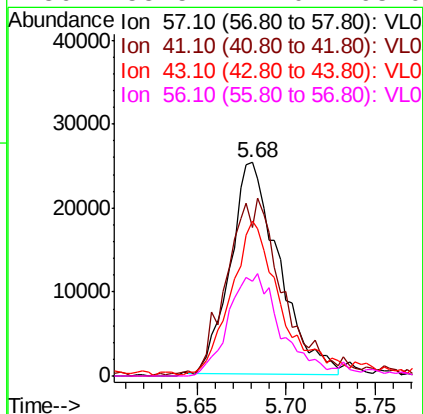
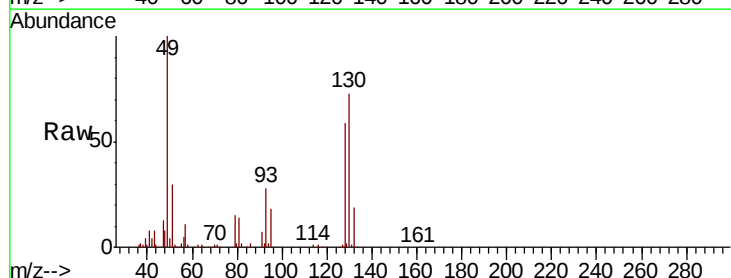
Instrument :
MSVOA_L
ClientSampled :

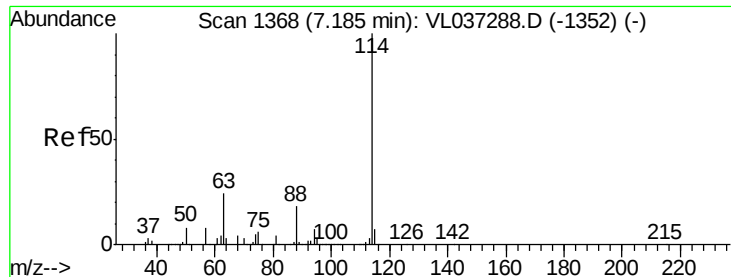
Tot Ion:	43	Resp:	32340
Ion	Ratio	Lower	Upper
43	100		
45	2.1	7.4	11.2#
61	0.9	7.8	11.6#
70	2.8	5.4	8.2#



#26
Hexane
Concen: 0.312 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037300.D
Acq: 31 Jul 2021 2:38

Tgt Ion:	57	Resp:	47952
Ion	Ratio	Lower	Upper
57	100		
41	100.5	71.0	106.6
43	80.4	155.0	232.4#
56	55.5	42.0	63.0

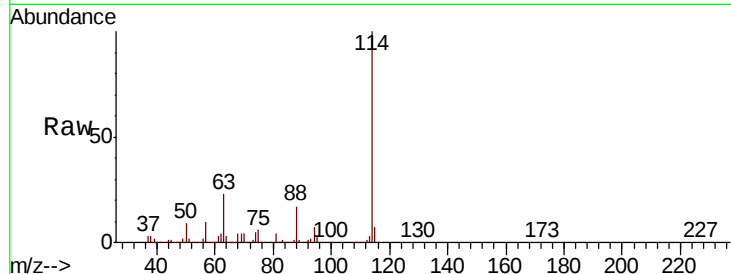




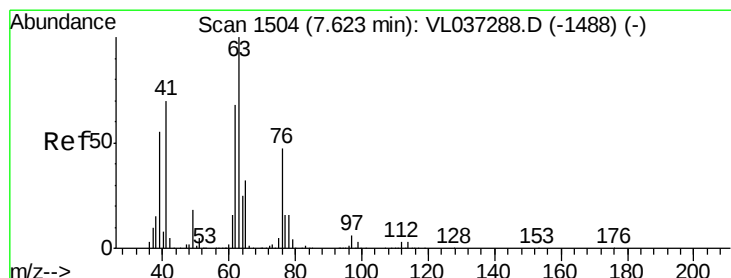
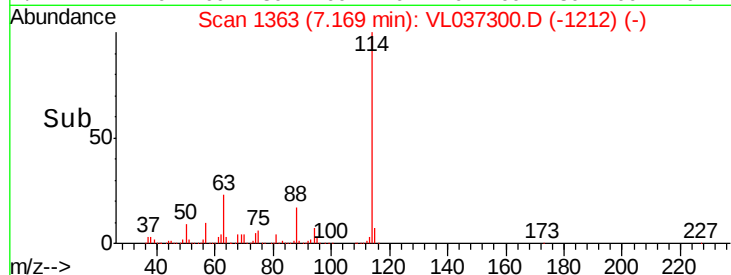
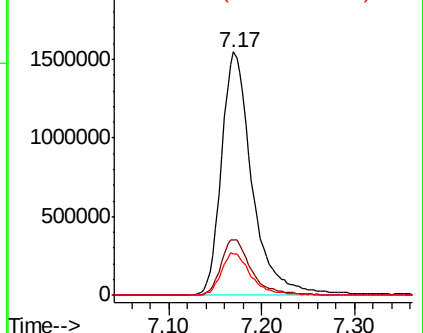
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL037300.D
 Acq: 31 Jul 2021 2:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3550916
 Ion Ratio Lower Upper
 114 100
 63 23.0 19.0 28.4
 88 17.4 14.0 21.0

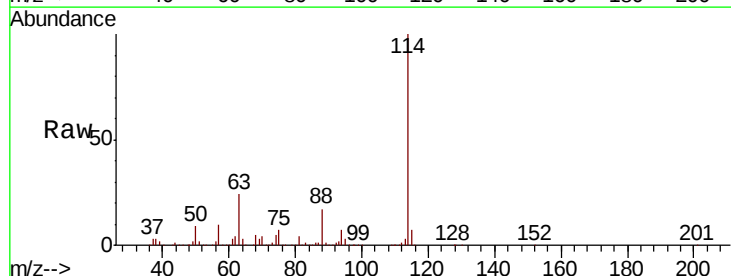


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

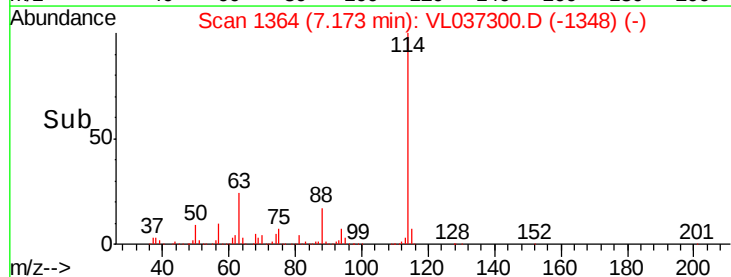
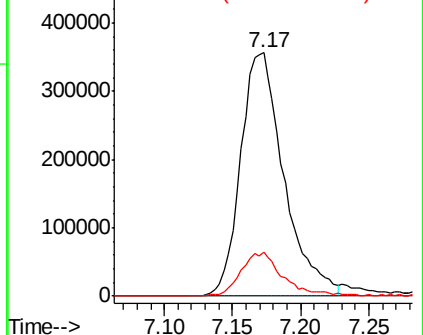


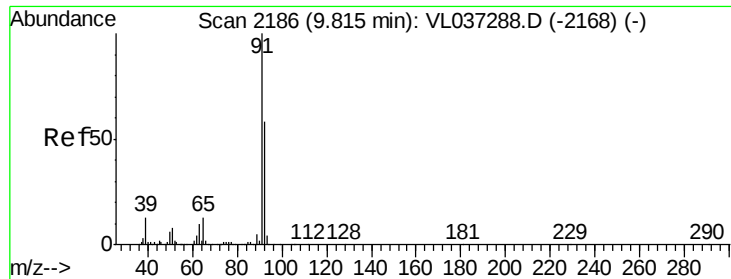
#39
 1,2-Dichloropropane
 Concen: 6.956 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL037300.D
 Acq: 31 Jul 2021 2:38

Tgt Ion: 63 Resp: 786398
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.4 84.6#
 62 17.8 54.6 82.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.163 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

Instrument :

MSVOA_L

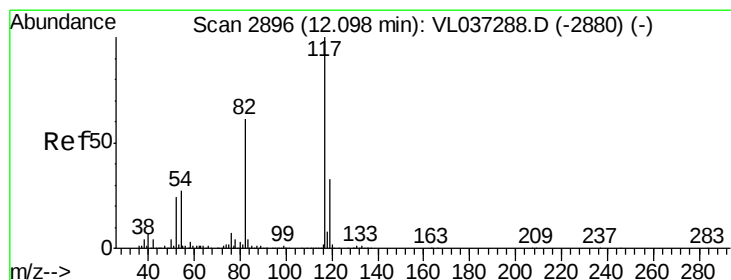
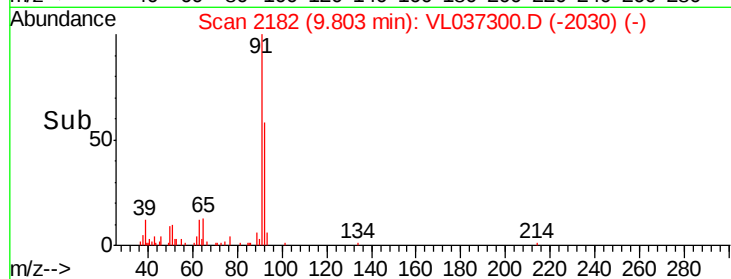
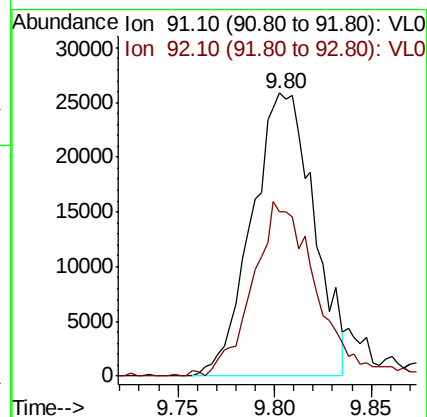
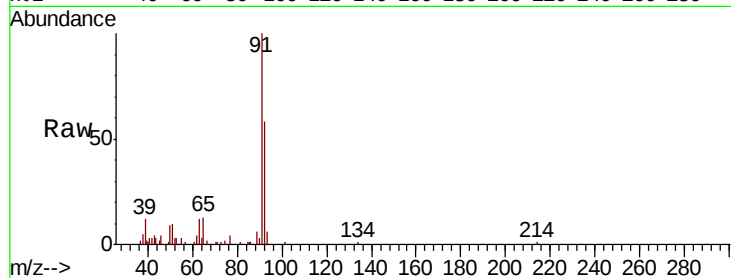
ClientSampleId :

Tot Ion: 91 Resp: 57689

Ion Ratio Lower Upper

91 100

92 63.5 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.02 min

Lab File: VL037300.D

Acq: 31 Jul 2021 2:38

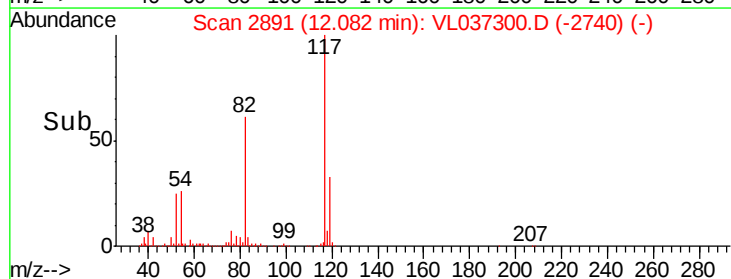
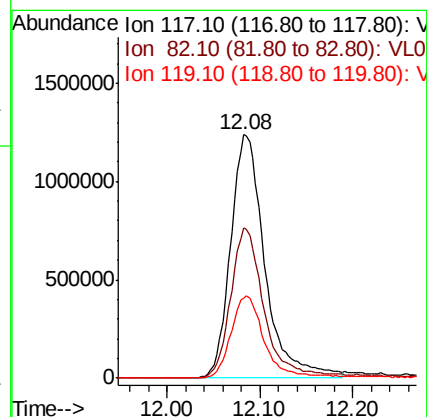
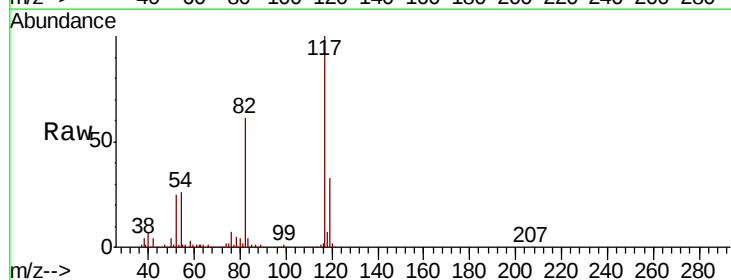
Tgt Ion: 117 Resp: 3180840

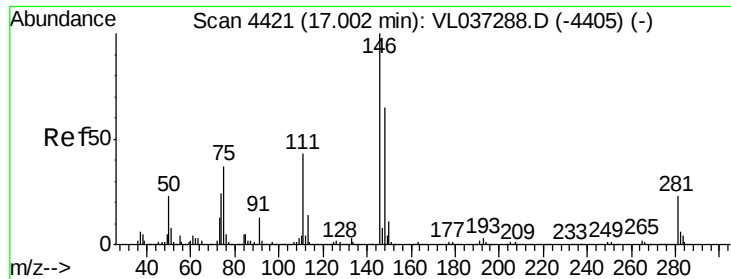
Ion Ratio Lower Upper

117 100

82 61.8 47.2 70.8

119 34.4 45.8 68.8#

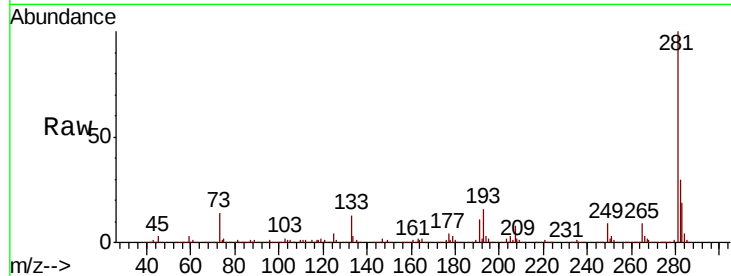




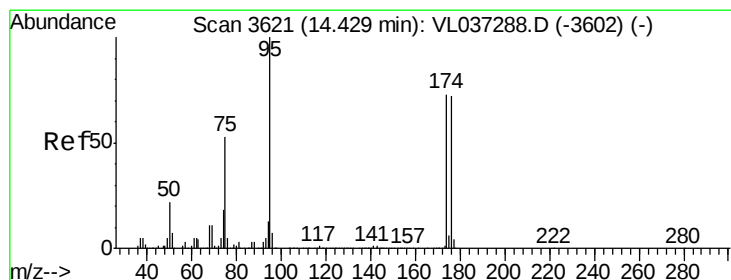
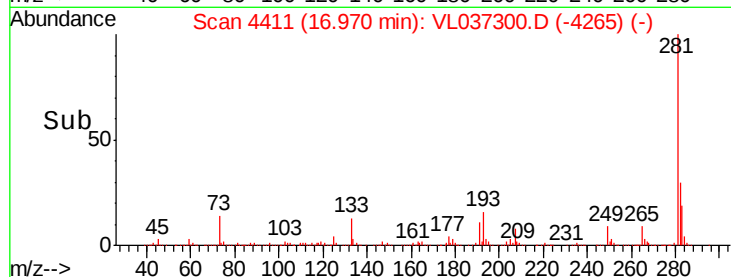
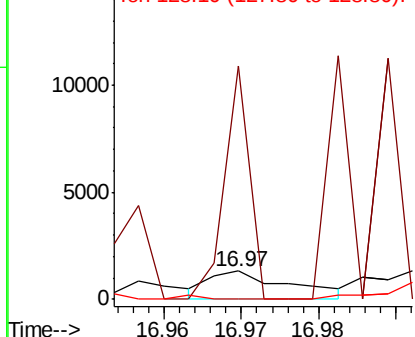
#66
Benzyl Chloride
Concen: 0.042 ppbv
RT: 16.97 min Scan# 4411
Delta R.T. -0.03 min
Lab File: VL037300.D
Acq: 31 Jul 2021 2:38

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 962
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.0#
128 0.0 5.0 7.4#

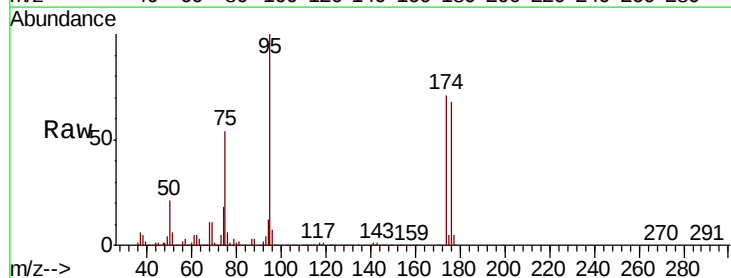


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.965 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL037300.D
Acq: 31 Jul 2021 2:38

Tgt Ion: 95 Resp: 2306025
Ion Ratio Lower Upper
95 100
174 77.4 59.8 89.6
175 5.6 4.5 6.7



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

