

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035821.D
 Acq On : 4 Nov 2020 2:28
 Operator : SY/AP
 Sample : L4610-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 04 05:18:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1205755	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	5290957	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4836583	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3466579	10.09	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

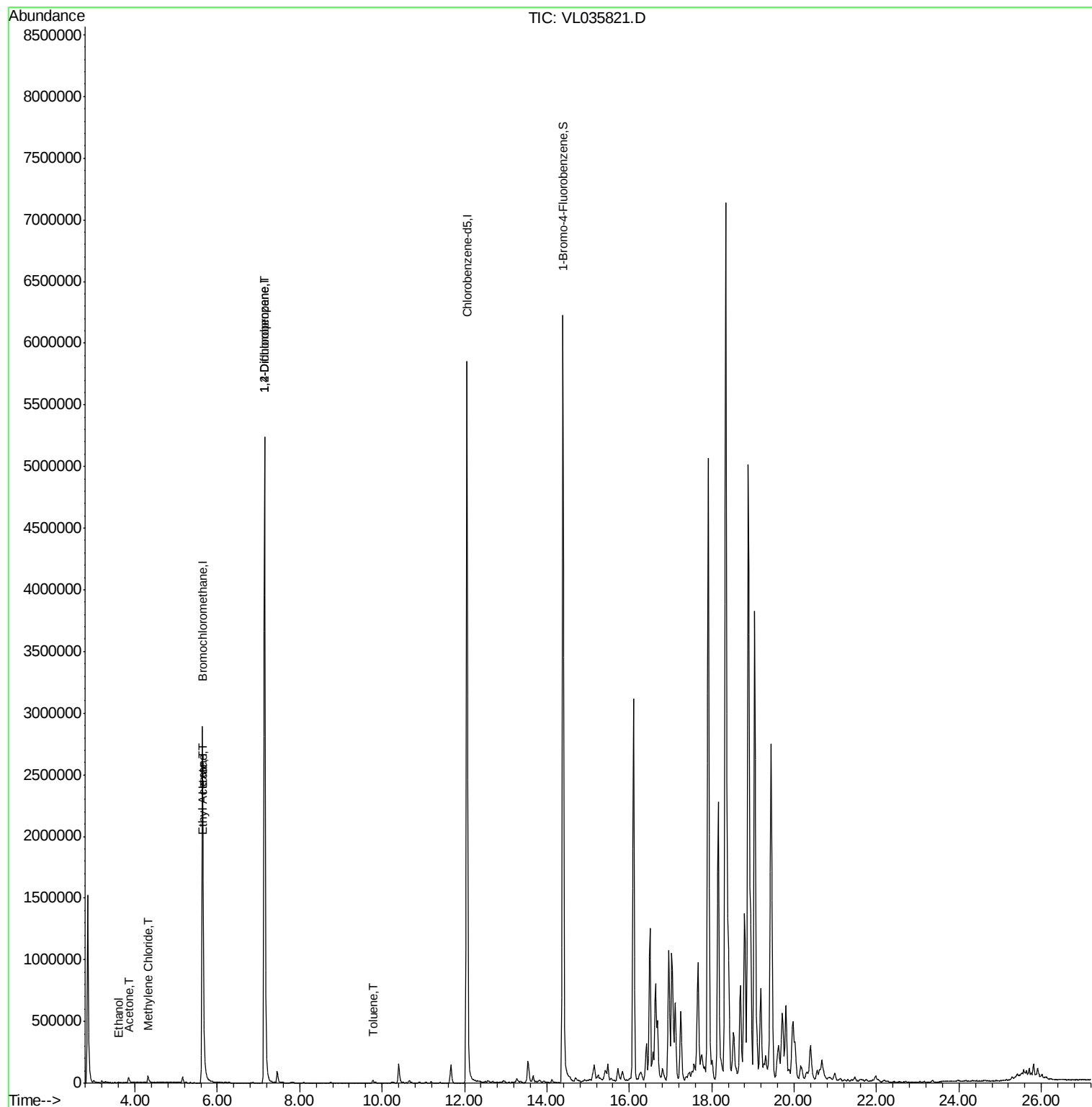
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.60	45	1600	0.140	ppbv #	35
15) Acetone	3.84	43	46473	0.361	ppbv #	60
20) Methylene Chloride	4.32	84	30024	0.331	ppbv	96
25) Ethyl Acetate	5.66	43	9087	0.036	ppbv #	75
26) Hexane	5.66	57	17651	0.126	ppbv #	46
39) 1,2-Dichloropropane	7.14	63	975890	7.369	ppbv #	29
53) Toluene	9.77	91	19563	0.041	ppbv	96

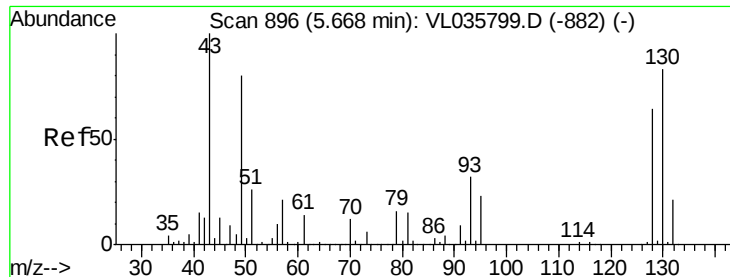
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampled :

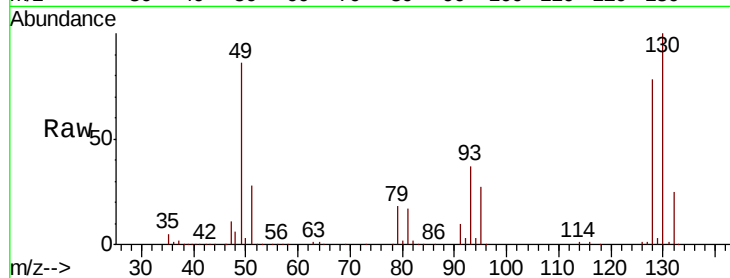
Tot Ion: 49 Resp: 1205755

Ion Ratio Lower Upper

49 100

128 92.5 41.5 124.6

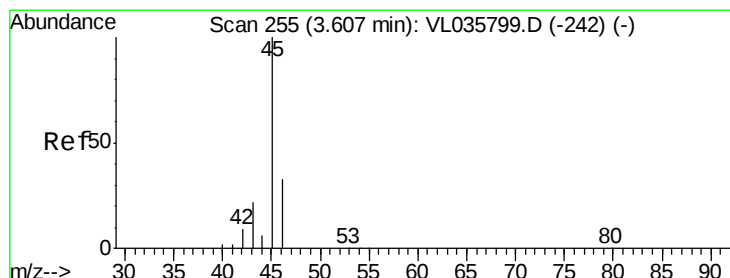
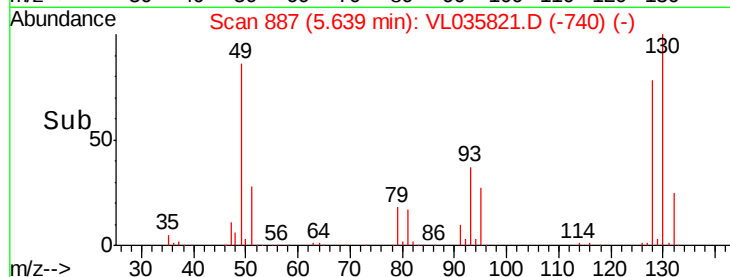
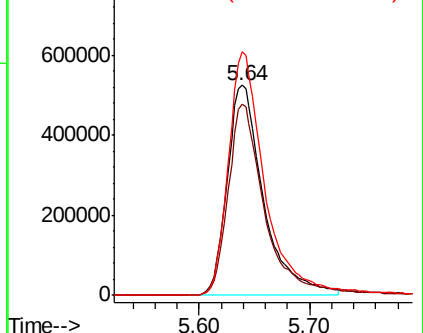
130 119.4 53.7 161.1



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



#13

Ethanol

Concen: 0.140 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035821.D

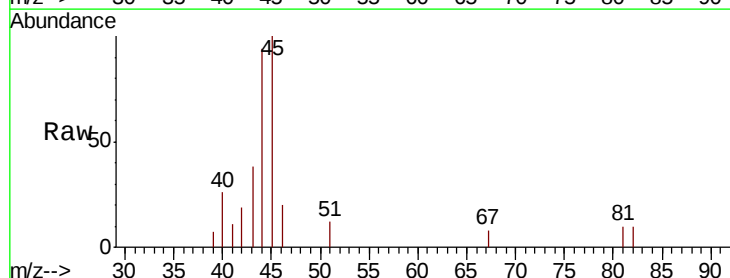
Acq: 4 Nov 2020 2:28

Tgt Ion: 45 Resp: 1600

Ion Ratio Lower Upper

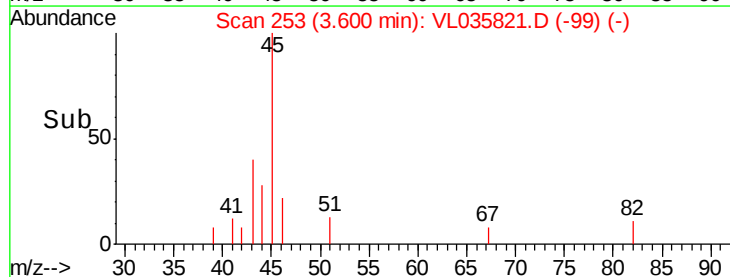
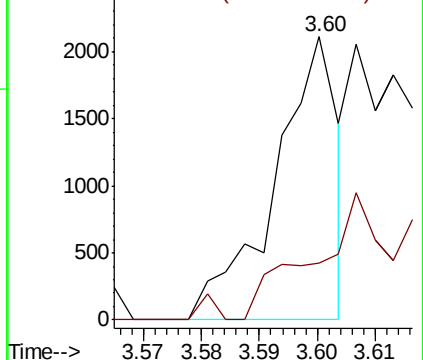
45 100

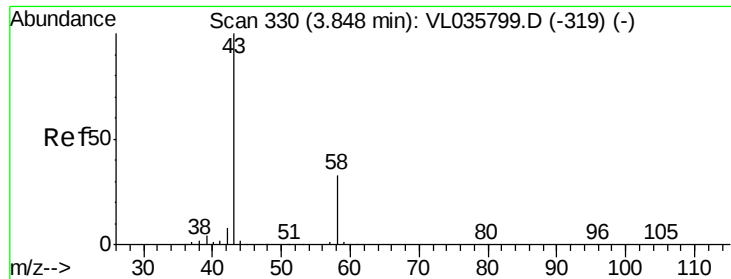
46 0.0 16.1 64.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.361 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

Instrument :

MSVOA_L

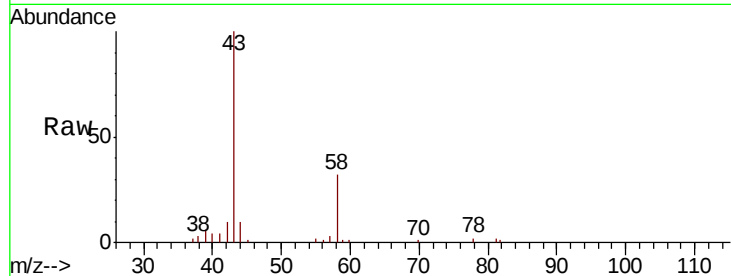
ClientSampleId :

Tot Ion: 43 Resp: 46473

Ion Ratio Lower Upper

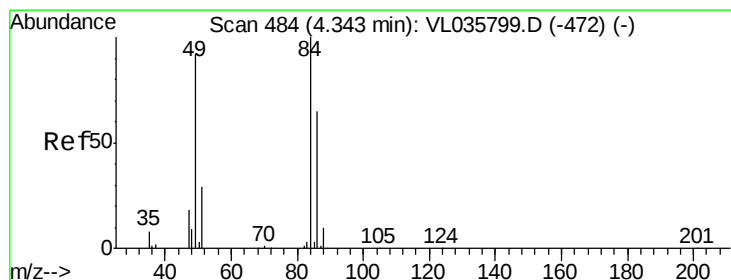
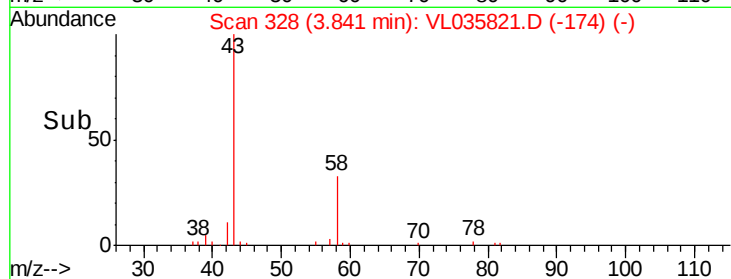
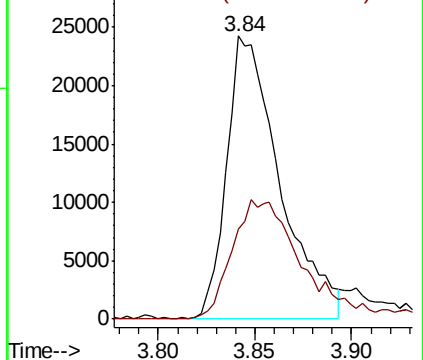
43 100

58 57.6 27.5 41.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.331 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

Tgt Ion: 84 Resp: 30024

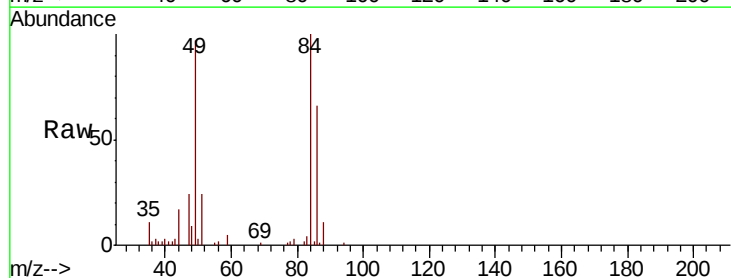
Ion Ratio Lower Upper

84 100

49 96.9 73.8 110.8

51 24.4 23.0 34.4

86 65.9 52.1 78.1

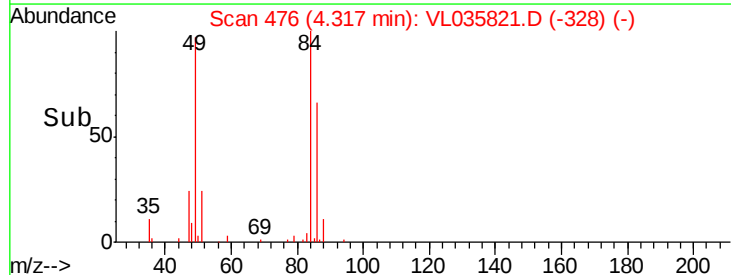
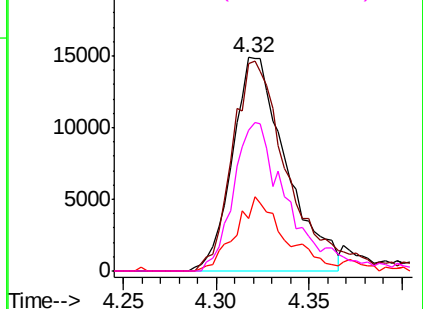


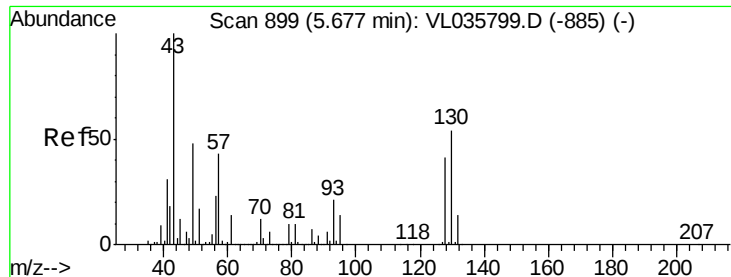
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

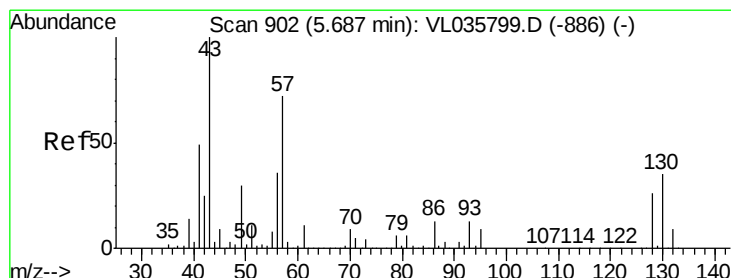
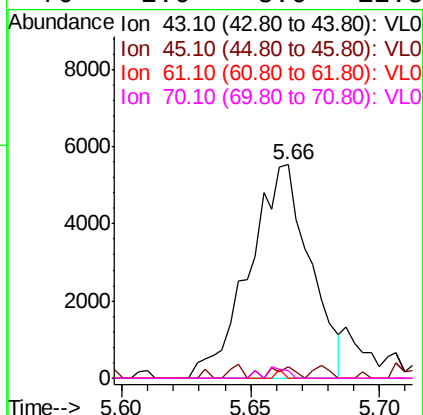
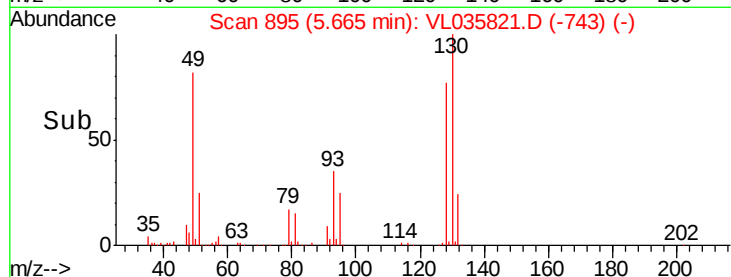
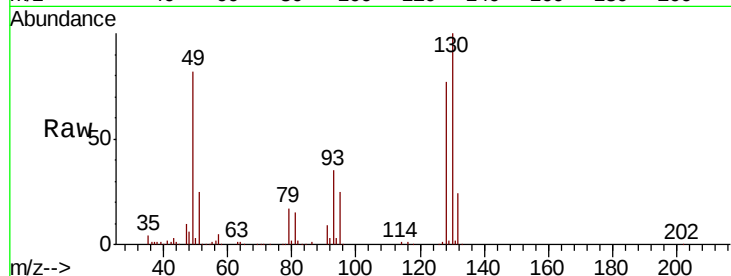




#25
Ethyl Acetate
Concen: 0.036 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035821.D
Acq: 4 Nov 2020 2:28

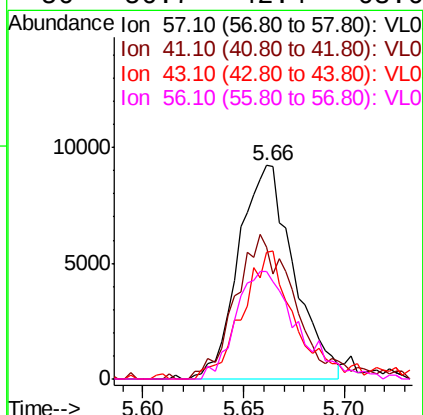
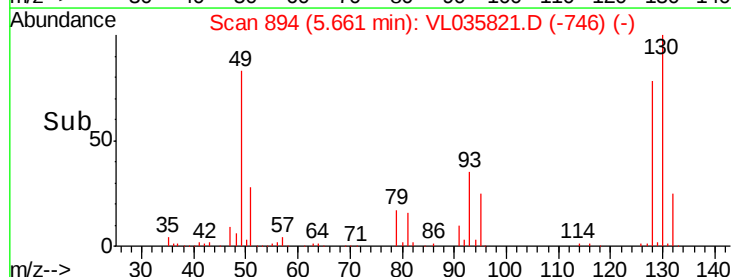
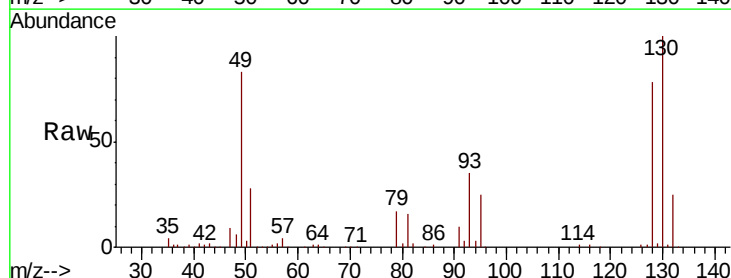
Instrument :
MSVOA_L
ClientSampleId :

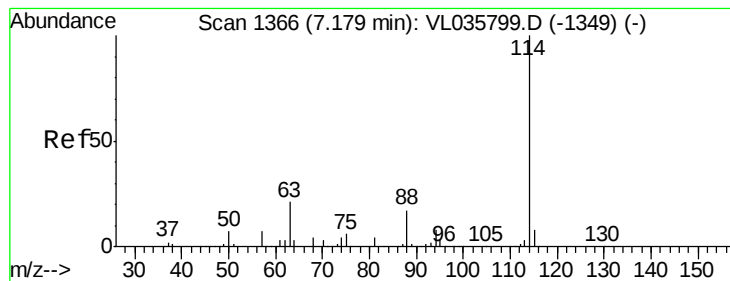
Tot Ion:	43	Resp:	9087
Ion	Ratio	Lower	Upper
43	100		
45	4.0	8.5	12.7#
61	0.5	10.7	16.1#
70	2.0	8.6	12.8#



#26
Hexane
Concen: 0.126 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035821.D
Acq: 4 Nov 2020 2:28

Tgt Ion:	57	Resp:	17651
Ion	Ratio	Lower	Upper
57	100		
41	76.0	58.9	88.3
43	60.4	150.2	225.2#
56	56.7	42.4	63.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.03 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

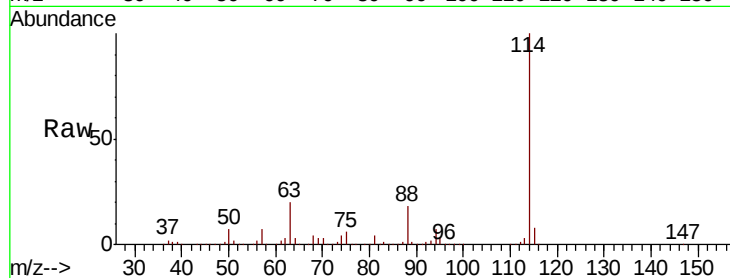
Tot Ion:114 Resp: 5290957

Ion Ratio Lower Upper

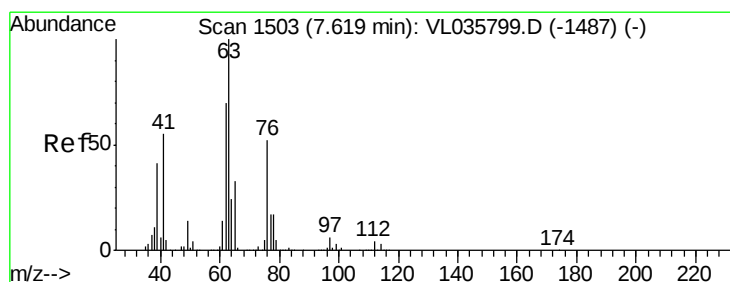
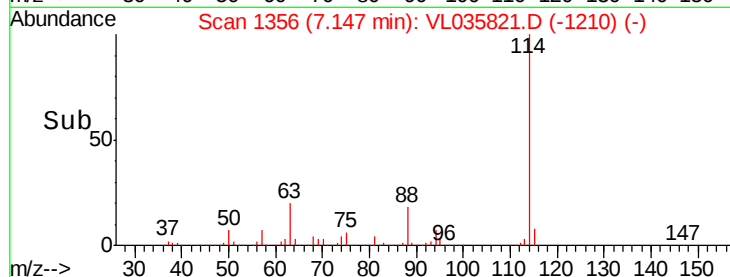
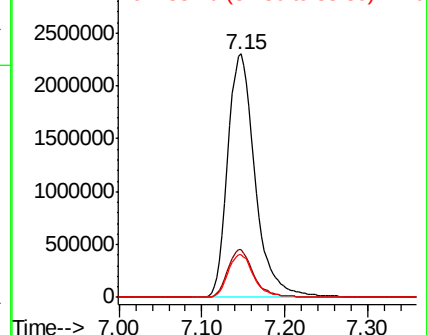
114 100

63 18.6 16.1 24.1

88 16.9 13.7 20.5



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



#39

1,2-Dichloropropane

Concen: 7.369 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.48 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

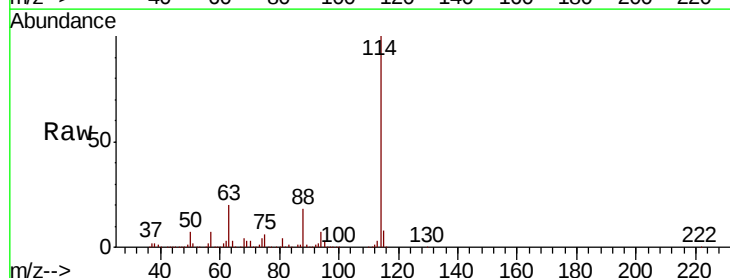
Tgt Ion: 63 Resp: 975890

Ion Ratio Lower Upper

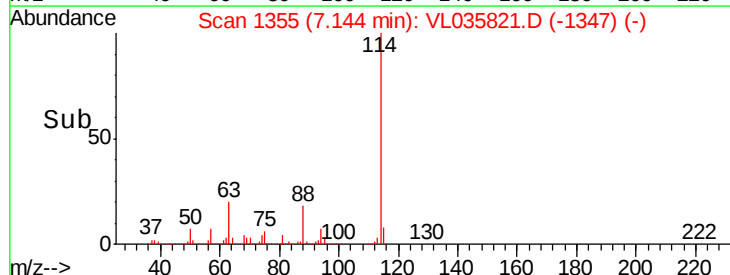
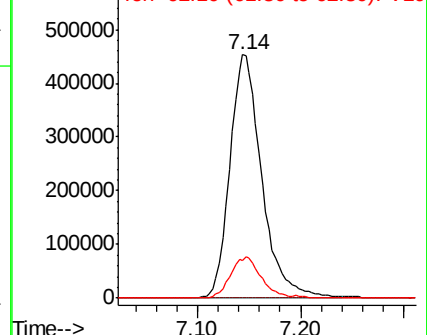
63 100

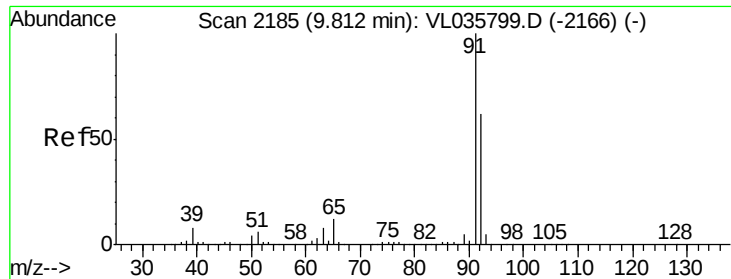
41 0.0 43.8 65.6#

62 15.6 56.2 84.2#



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: 0.041 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.04 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

Instrument :

MSVOA_L

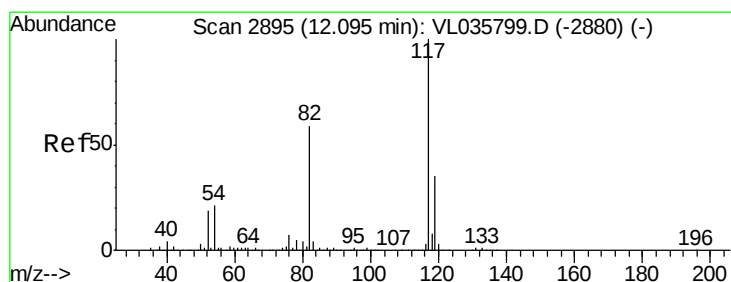
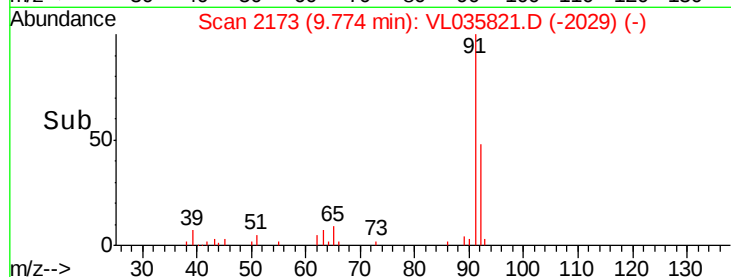
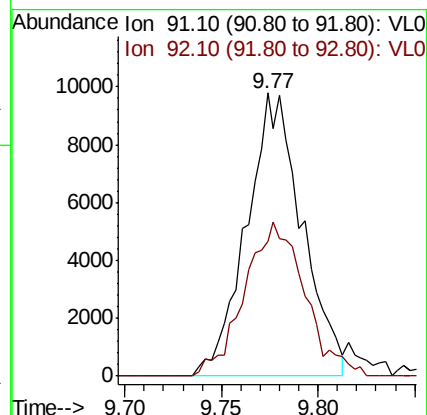
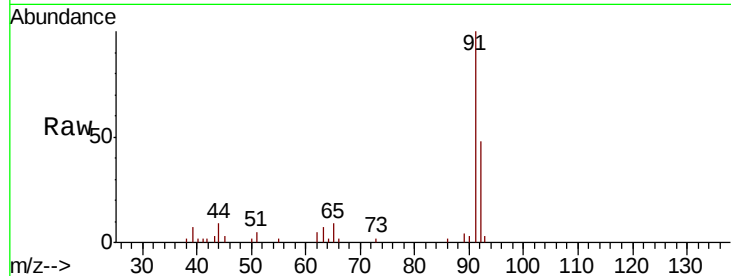
ClientSampleId :

Tot Ion: 91 Resp: 19563

Ion Ratio Lower Upper

91 100

92 59.1 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.04 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

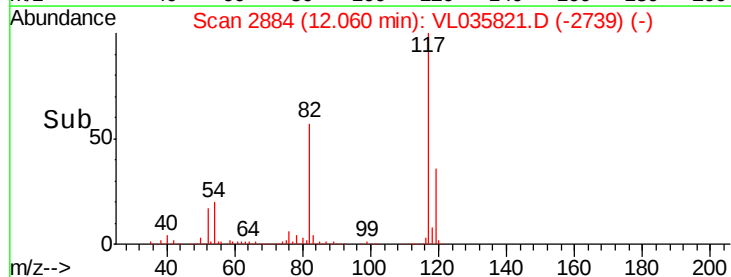
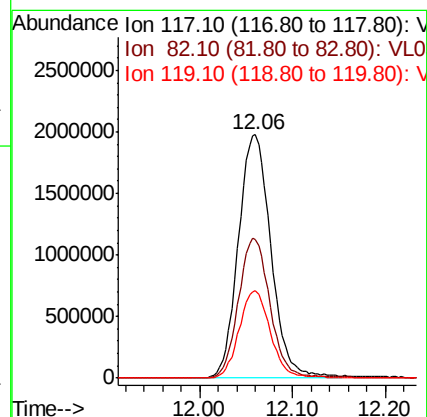
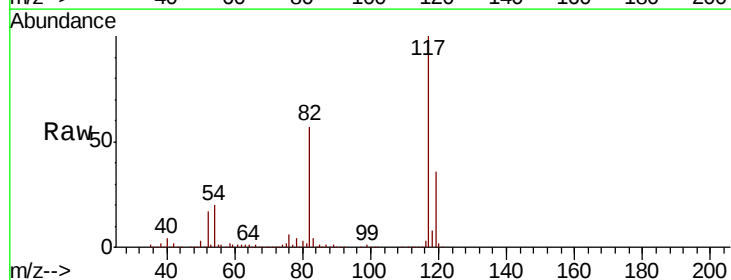
Tgt Ion: 117 Resp: 4836583

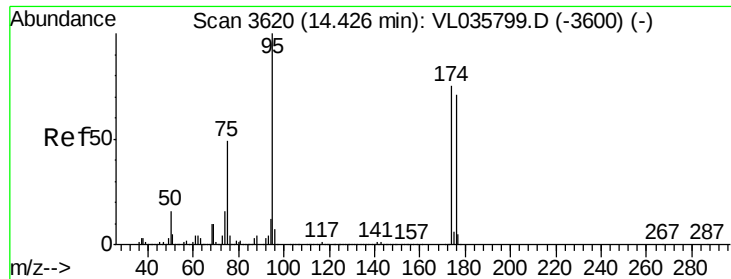
Ion Ratio Lower Upper

117 100

82 56.5 50.6 76.0

119 34.8 52.6 78.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.088 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.04 min

Lab File: VL035821.D

Acq: 4 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

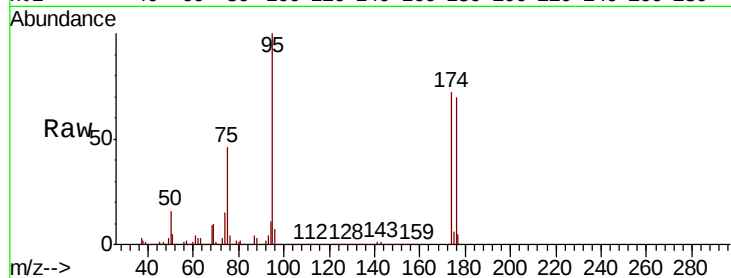
Tot Ion: 95 Resp: 3466579

Ion Ratio Lower Upper

95 100

174 76.1 59.8 89.6

175 5.5 4.3 6.5



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

