

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035925.D
 Acq On : 12 Nov 2020 22:38
 Operator : SY/AP
 Sample : L4721-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-1DL

Quant Time: Nov 13 01:01:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	5.66	49	1151023	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4022281	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3719024	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2707392	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

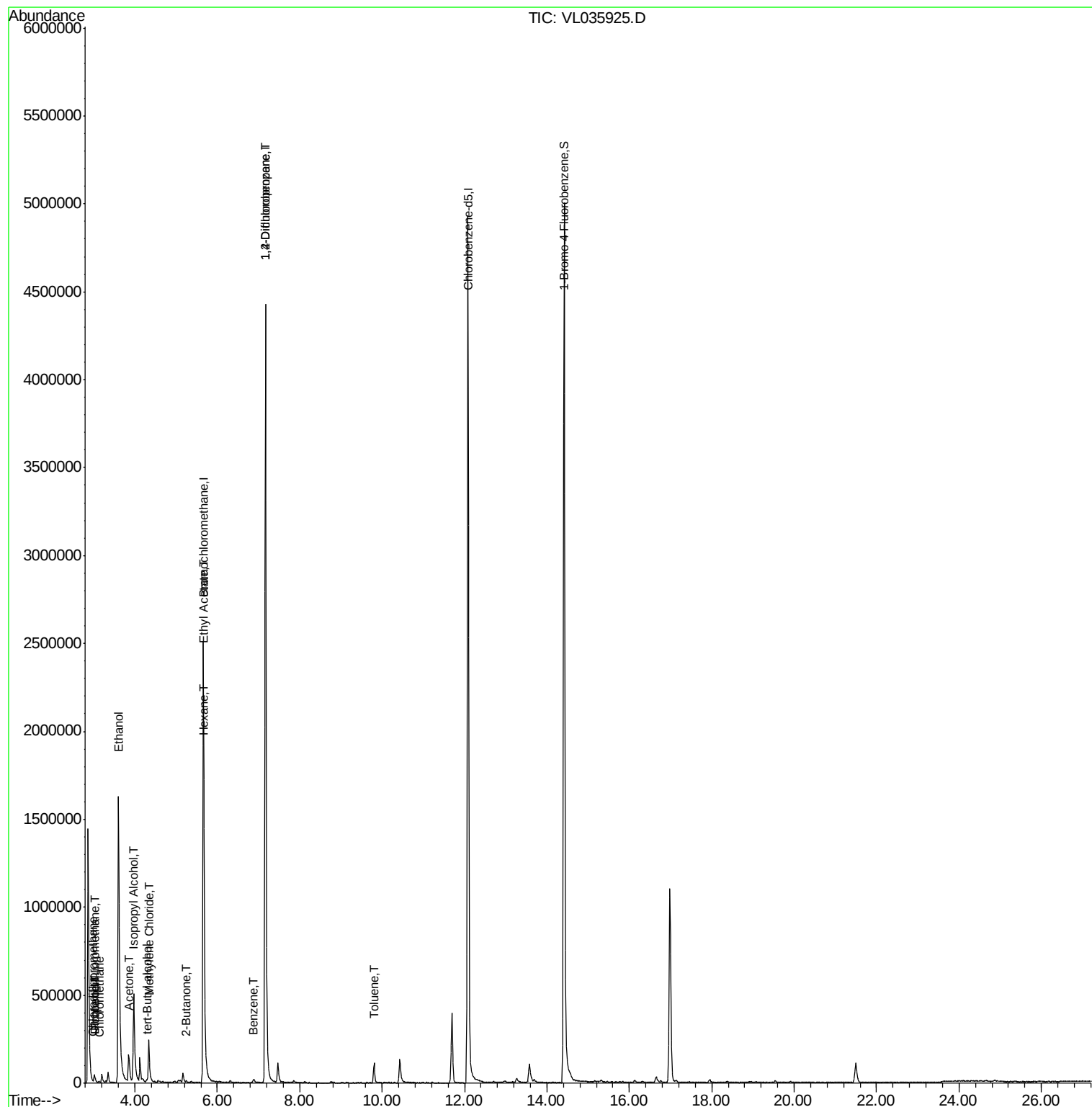
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	11553	0.053	ppbv	98
3) Chlorodifluoromethane	2.98	51	11824	0.086	ppbv #	82
4) Chloromethane	3.14	50	2906	0.043	ppbv #	88
9) Propene	3.01	41	12583	0.249	ppbv	91
13) Ethanol	3.60	45	2428639	221.895	ppbv	95
15) Acetone	3.85	43	181688	1.476	ppbv	94
17) tert-Butyl alcohol	4.29	59	6115	0.037	ppbv #	72
19) Isopropyl Alcohol	3.97	45	719696	9.517	ppbv #	98
20) Methylene Chloride	4.34	84	132724	1.532	ppbv	99
25) Ethyl Acetate	5.68	43	46734	0.193	ppbv #	77
26) Hexane	5.68	57	74803	0.560	ppbv #	45
34) 2-Butanone	5.24	43	8979	0.069	ppbv #	70
36) Benzene	6.89	78	9516	0.032	ppbv #	93
39) 1,2-Dichloropropane	7.17	63	829216	8.237	ppbv #	30
53) Toluene	9.81	91	96367	0.267	ppbv	100

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

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Quant Time: Nov 13 01:01:07 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035925.D

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Instrument :

MSVOA_L

ClientSampleId :

LA-1DL

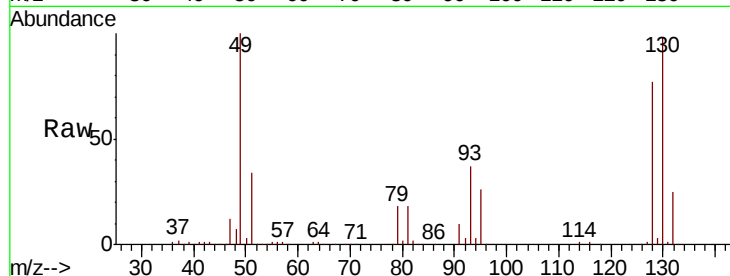
Tot Ion: 49 Resp: 1151023

Ion Ratio Lower Upper

49 100

128 75.7 41.5 124.6

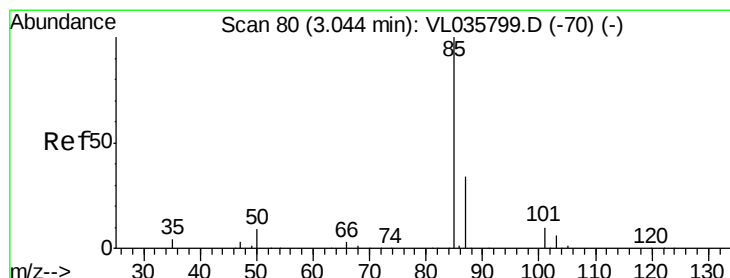
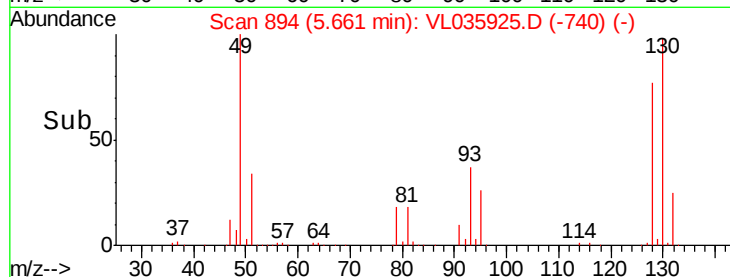
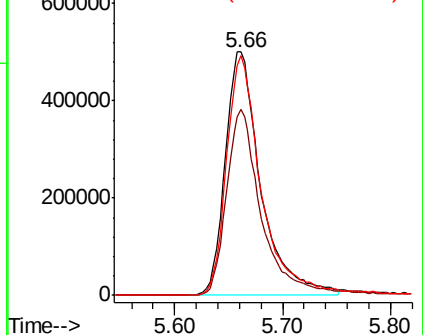
130 98.6 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.053 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035925.D

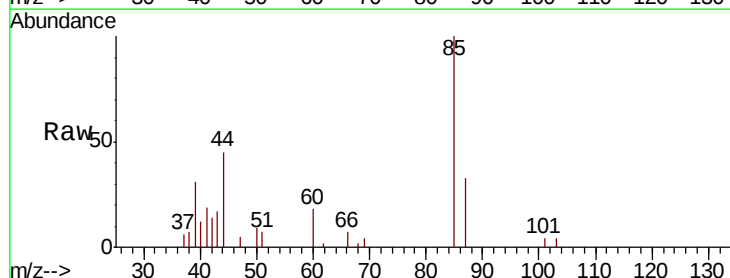
Acq: 12 Nov 2020 22:38

Tgt Ion: 85 Resp: 11553

Ion Ratio Lower Upper

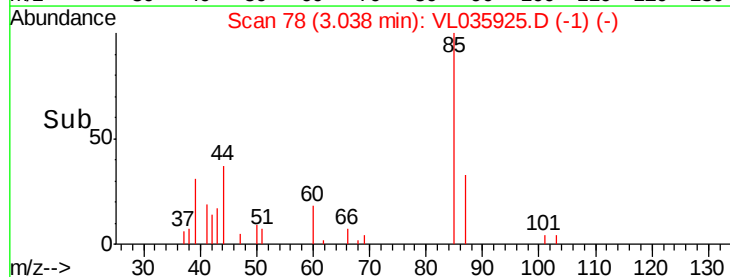
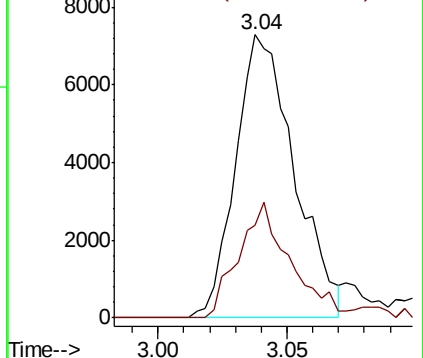
85 100

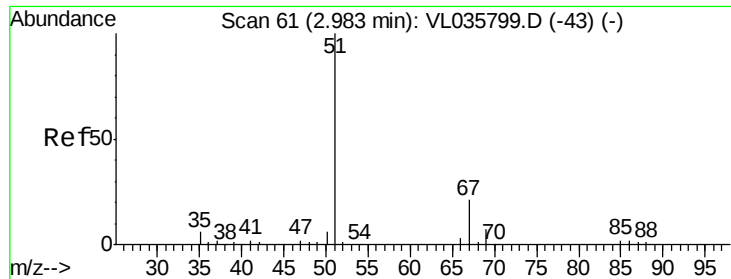
87 32.6 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.086 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

MSVOA_L

ClientSampleId :

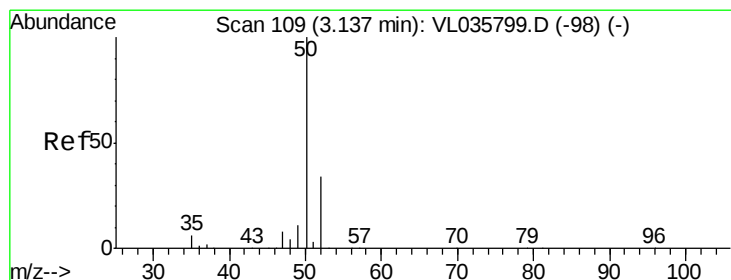
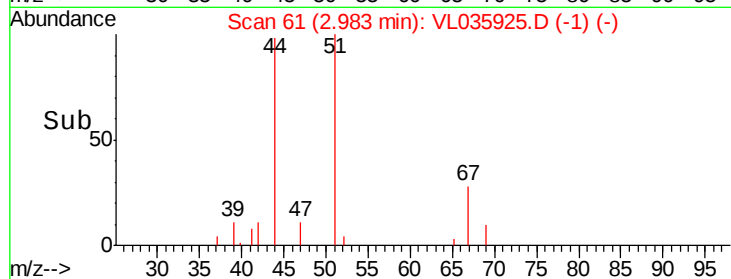
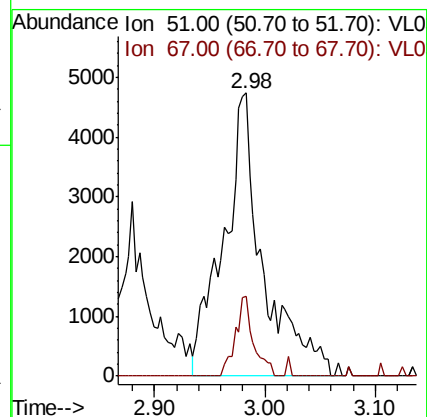
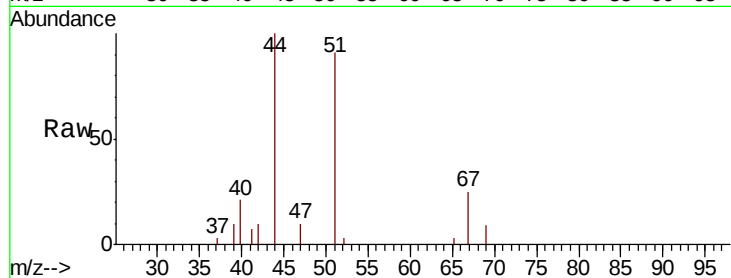
LA-1DL

Tot Ion: 51 Resp: 11824

Ion Ratio Lower Upper

51 100

67 12.7 17.0 25.4#



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035925.D

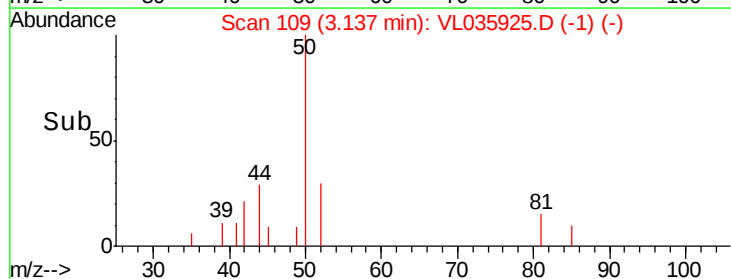
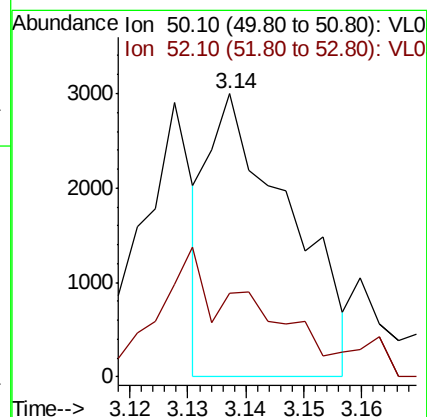
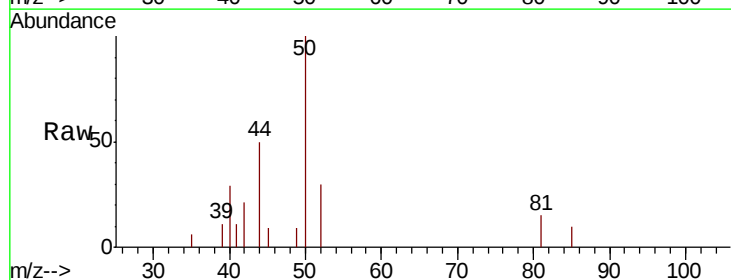
Acq: 12 Nov 2020 22:38

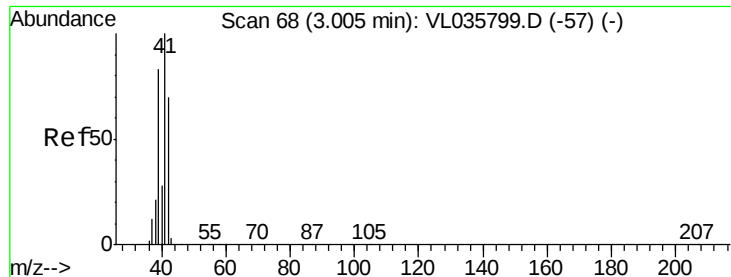
Tgt Ion: 50 Resp: 2906

Ion Ratio Lower Upper

50 100

52 26.9 27.1 40.7#





#9

Propene

Concen: 0.249 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

MSVOA_L

ClientSampleId :

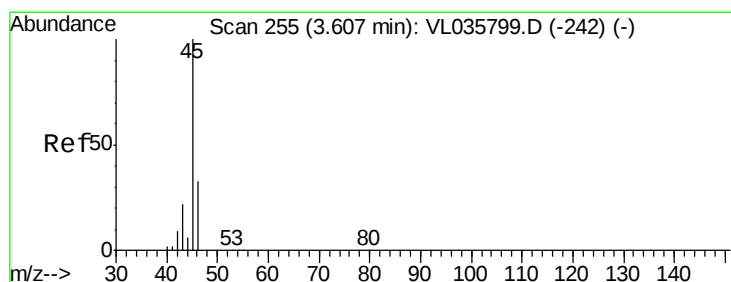
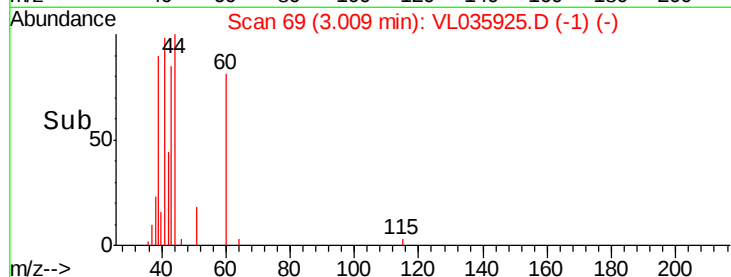
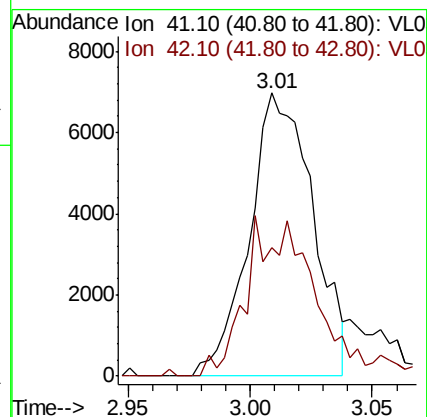
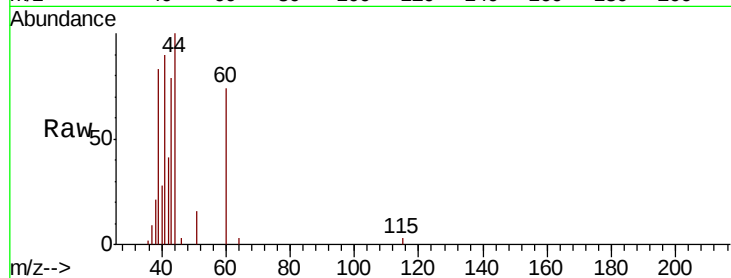
LA-1DL

Tot Ion: 41 Resp: 12583

Ion Ratio Lower Upper

41 100

42 63.0 56.2 84.4



#13

Ethanol

Concen: 221.895 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035925.D

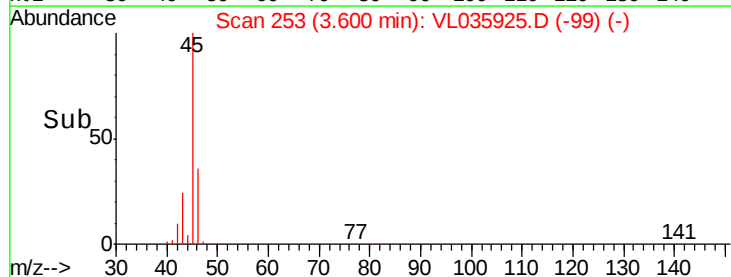
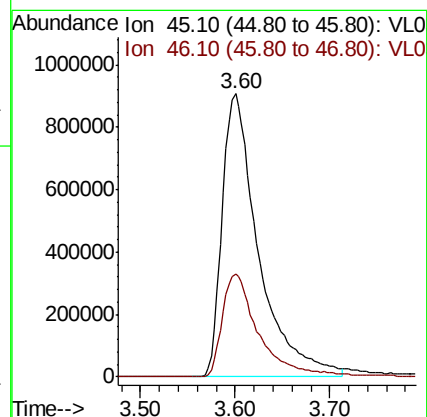
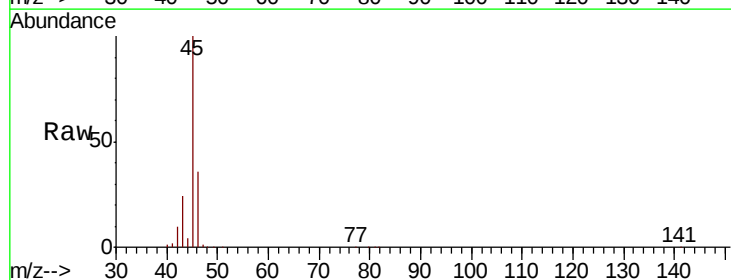
Acq: 12 Nov 2020 22:38

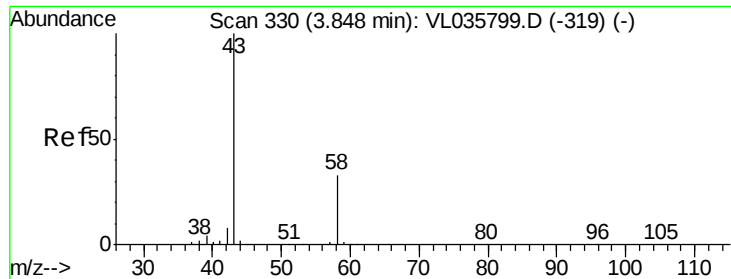
Tgt Ion: 45 Resp: 2428639

Ion Ratio Lower Upper

45 100

46 37.4 16.1 64.5





#15

Acetone

Concen: 1.476 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

MSVOA_L

ClientSampleId :

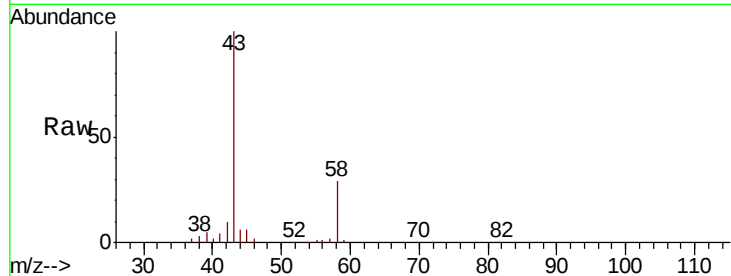
LA-1DL

Tot Ion: 43 Resp: 181688

Ion Ratio Lower Upper

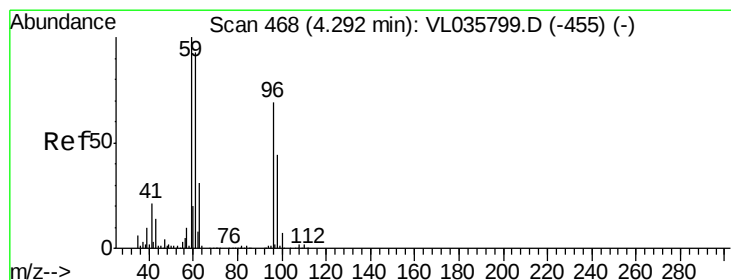
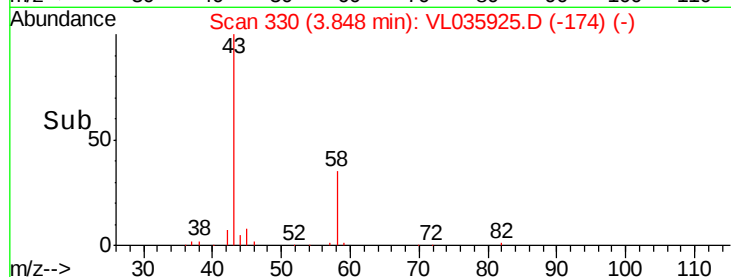
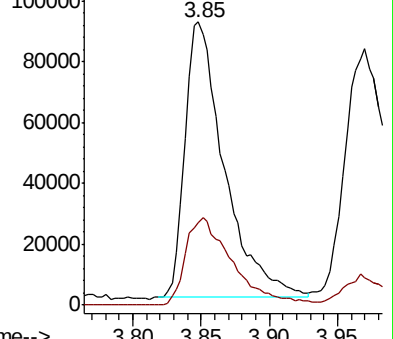
43 100

58 37.8 27.5 41.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.037 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL035925.D

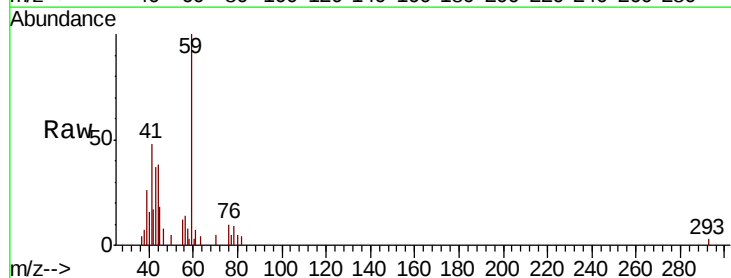
Acq: 12 Nov 2020 22:38

Tgt Ion: 59 Resp: 6115

Ion Ratio Lower Upper

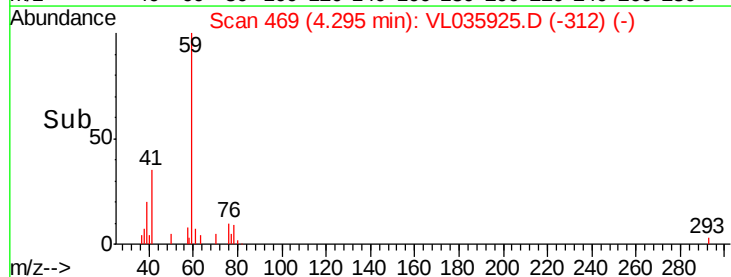
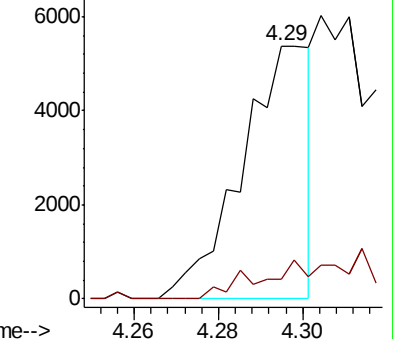
59 100

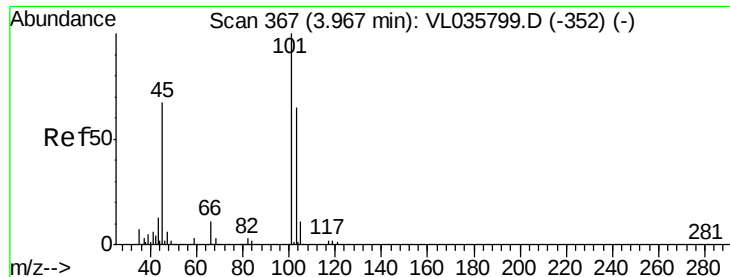
57 0.0 8.2 12.4#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 9.517 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

MSVOA_L

ClientSampleId :

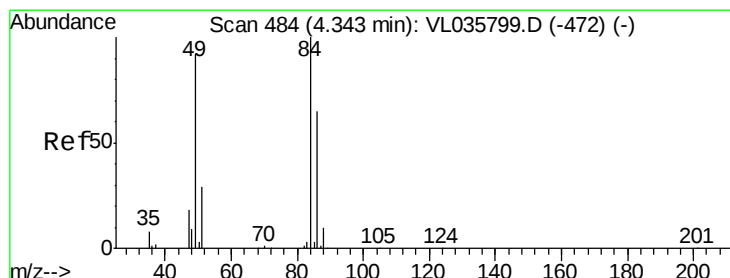
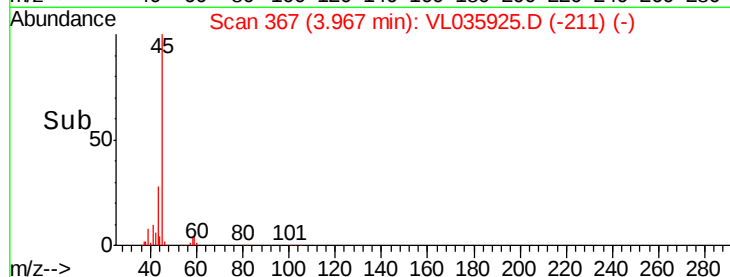
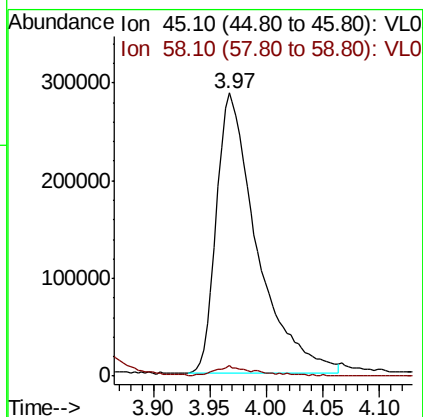
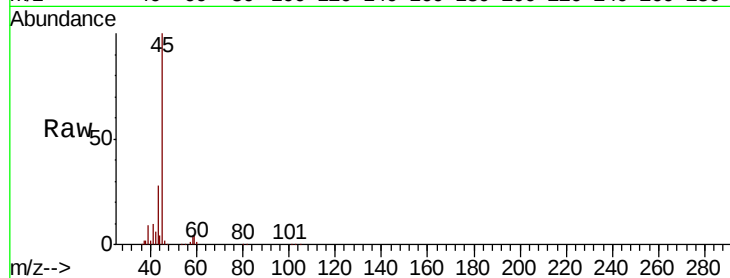
LA-1DL

Tot Ion: 45 Resp: 719696

Ion Ratio Lower Upper

45 100

58 3.9 2.6 3.8#



#20

Methylene Chloride

Concen: 1.532 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Tgt Ion: 84 Resp: 132724

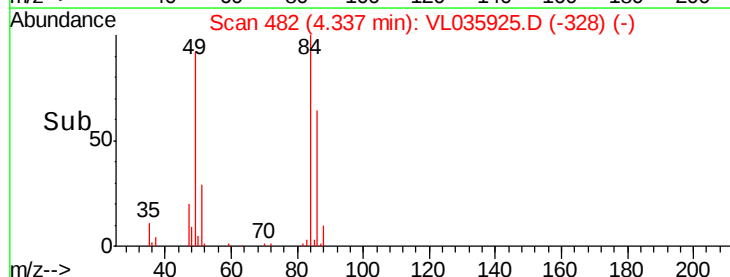
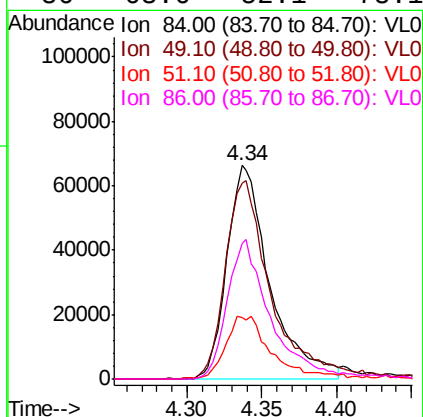
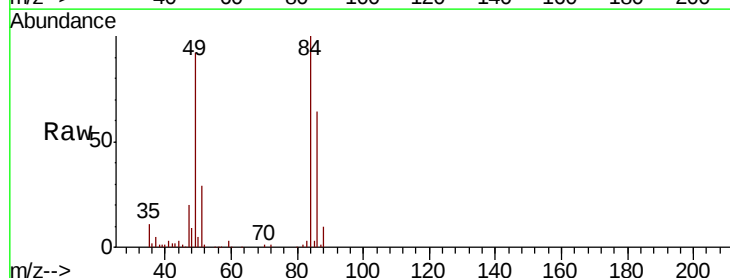
Ion Ratio Lower Upper

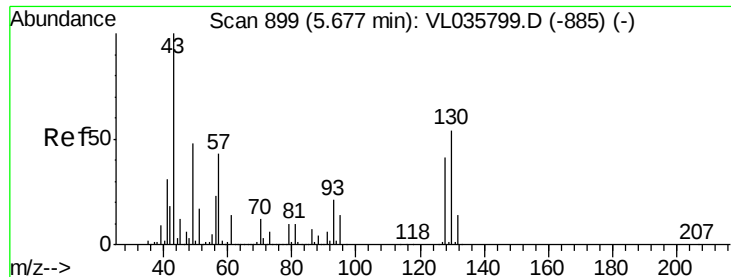
84 100

49 91.4 73.8 110.8

51 28.3 23.0 34.4

86 63.6 52.1 78.1

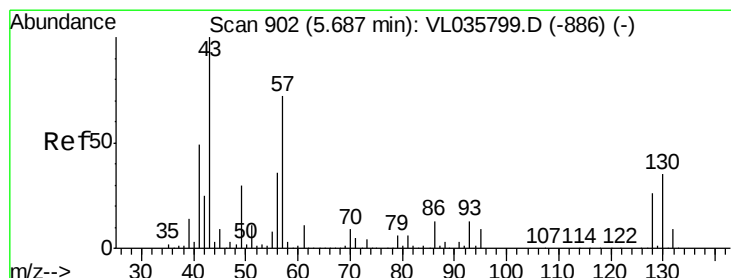
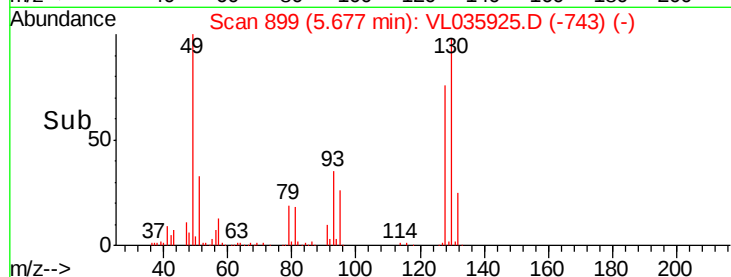
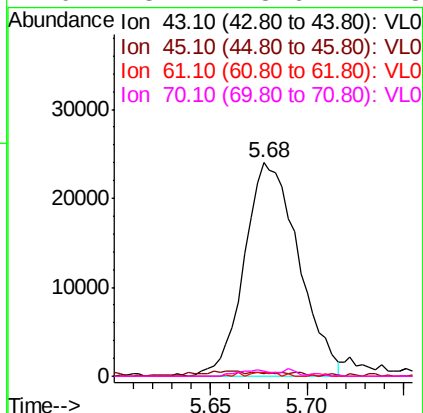
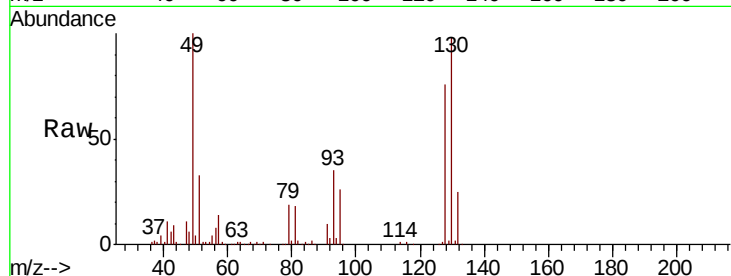




#25
Ethyl Acetate
Concen: 0.193 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035925.D
Acq: 12 Nov 2020 22:38

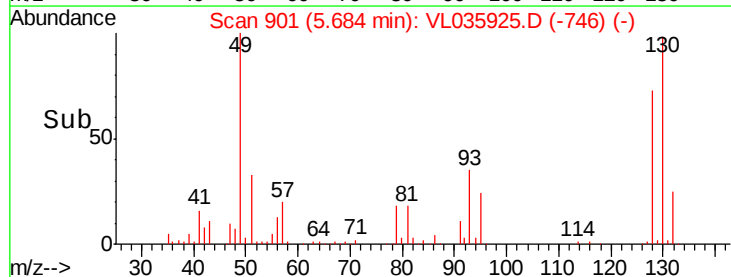
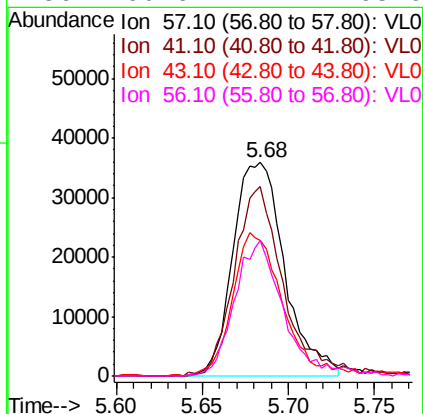
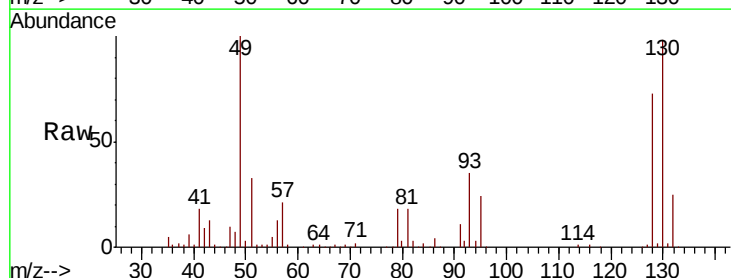
Instrument :
MSVOA_L
ClientSampleID :
LA-1DL

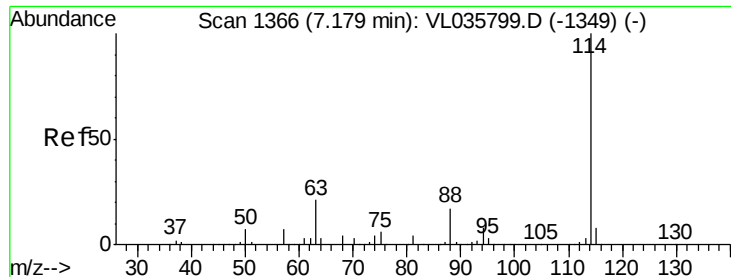
Tot Ion:	43	Resp:	46734
Ion	Ratio	Lower	Upper
43	100		
45	4.0	8.5	12.7#
61	1.3	10.7	16.1#
70	3.2	8.6	12.8#



#26
Hexane
Concen: 0.560 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035925.D
Acq: 12 Nov 2020 22:38

Tgt Ion:	57	Resp:	74803
Ion	Ratio	Lower	Upper
57	100		
41	86.1	58.9	88.3
43	66.4	150.2	225.2#
56	60.6	42.4	63.6

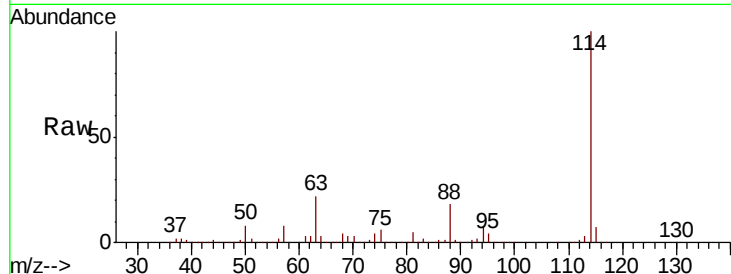




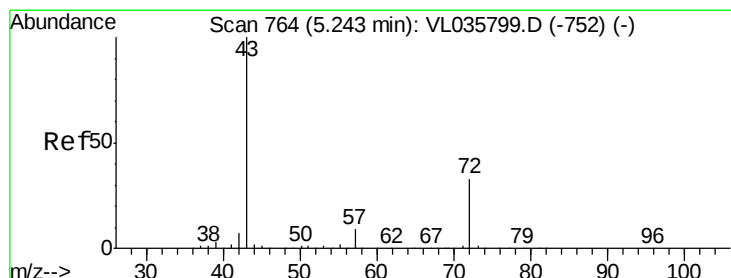
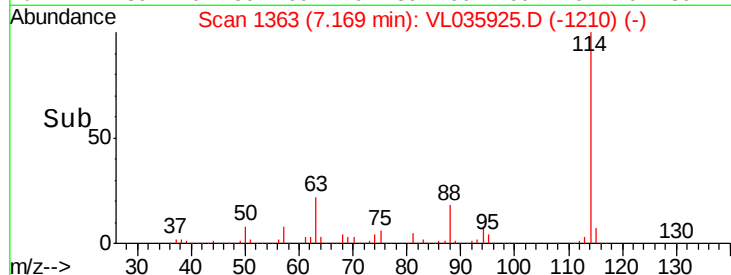
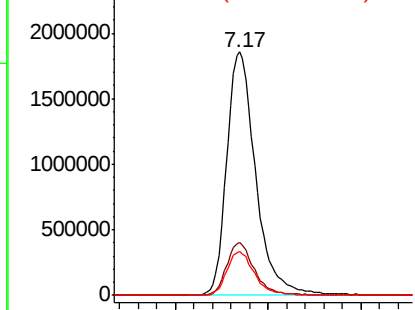
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL035925.D
 Acq: 12 Nov 2020 22:38

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-1DL

Tot Ion:114 Resp: 4022281
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.1 24.1
 88 17.5 13.7 20.5

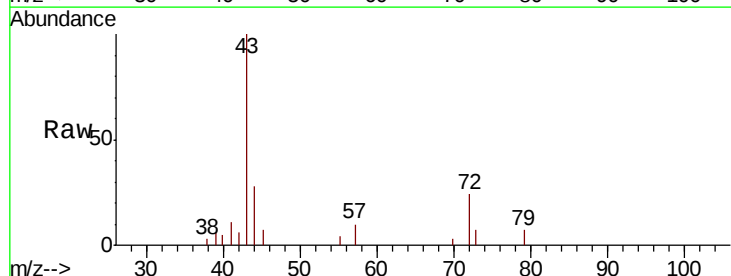


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

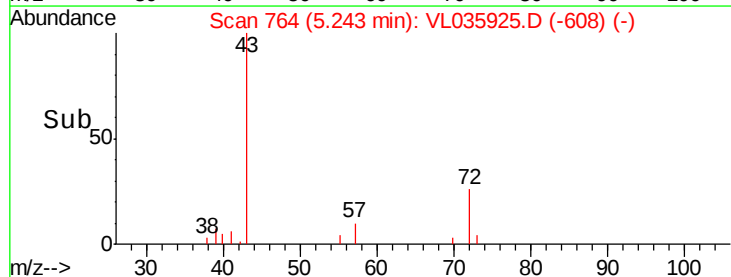
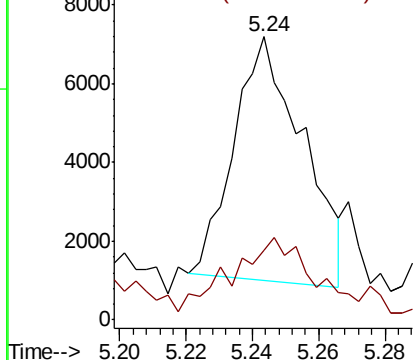


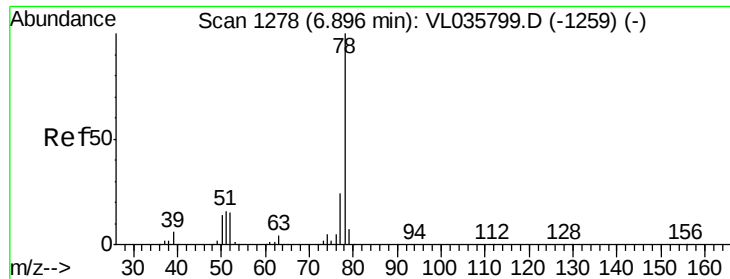
#34
 2-Butanone
 Concen: 0.069 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL035925.D
 Acq: 12 Nov 2020 22:38

Tgt Ion: 43 Resp: 8979
 Ion Ratio Lower Upper
 43 100
 72 49.9 26.5 39.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.032 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

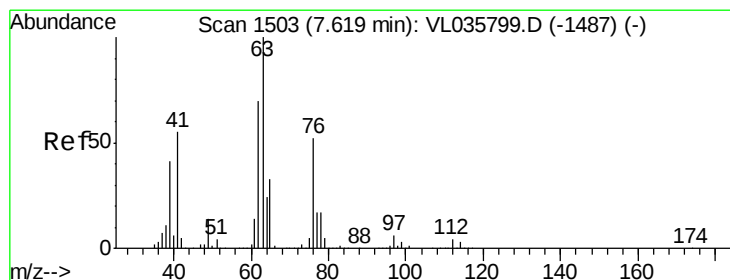
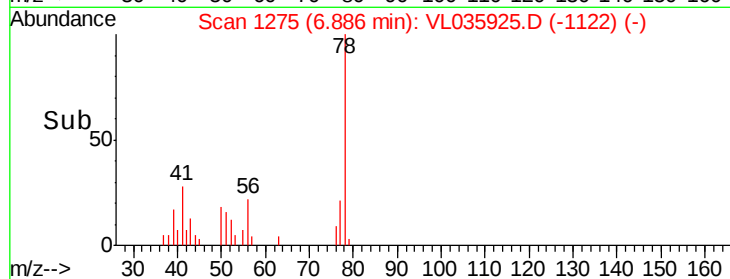
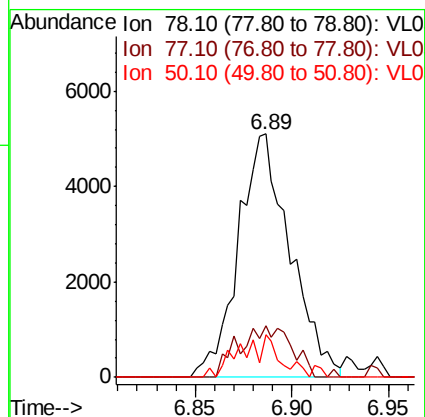
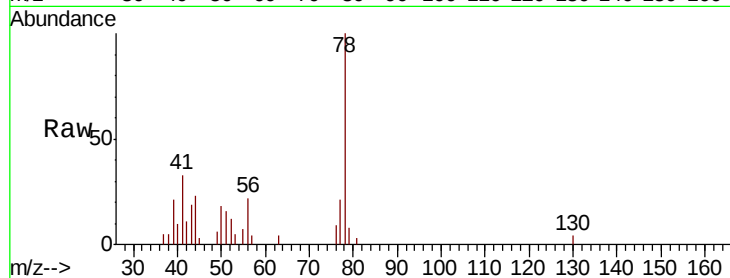
MSVOA_L

ClientSampleId :

LA-1DL

Tot Ion: 78 Resp: 9516

Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.3	28.9
50	17.5	11.4	17.2#



#39

1,2-Dichloropropane

Concen: 8.237 ppbv

RT: 7.17 min Scan# 1363

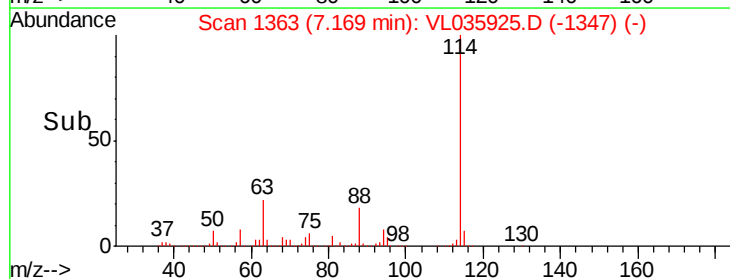
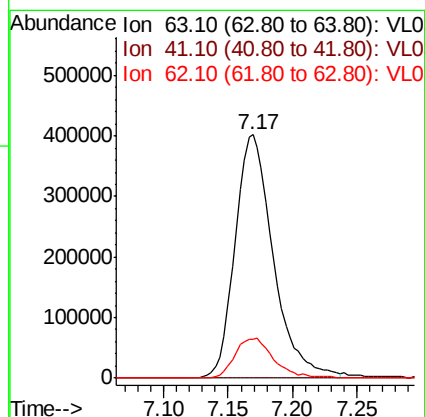
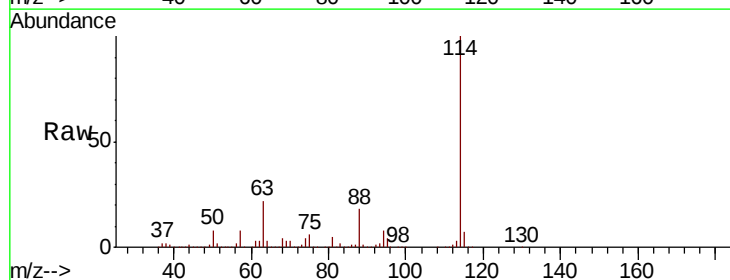
Delta R.T. -0.45 min

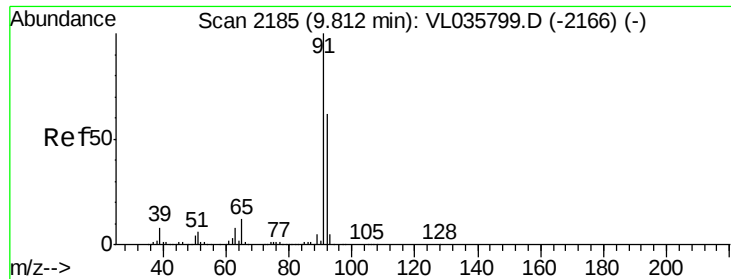
Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Tgt Ion: 63 Resp: 829216

Ion	Ratio	Lower	Upper
63	100		
41	0.0	43.8	65.6#
62	15.9	56.2	84.2#





#53

Toluene

Concen: 0.267 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

MSVOA_L

ClientSampleId :

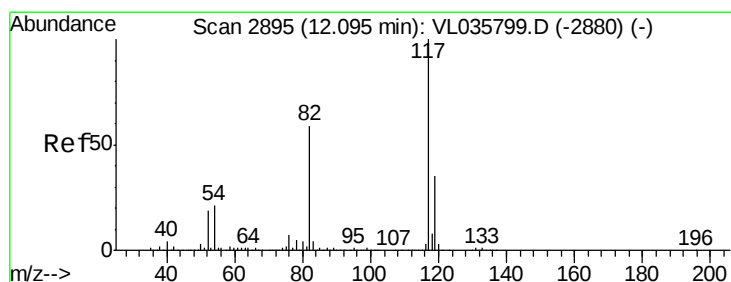
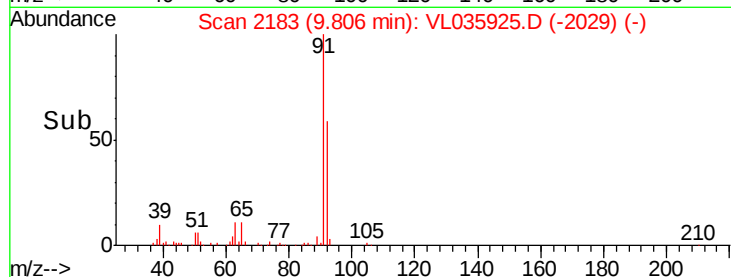
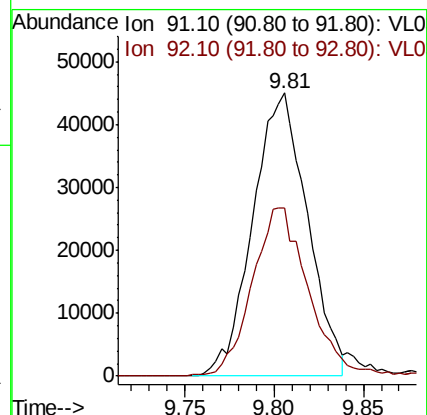
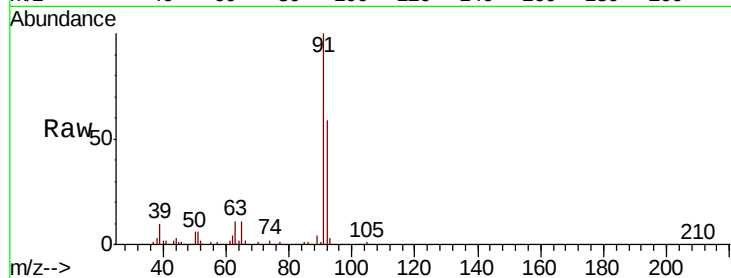
LA-1DL

Tot Ion: 91 Resp: 96367

Ion Ratio Lower Upper

91 100

92 61.9 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

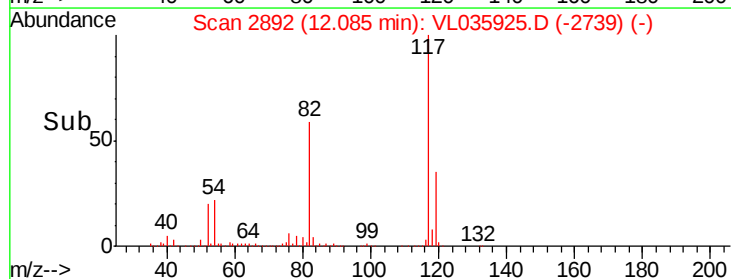
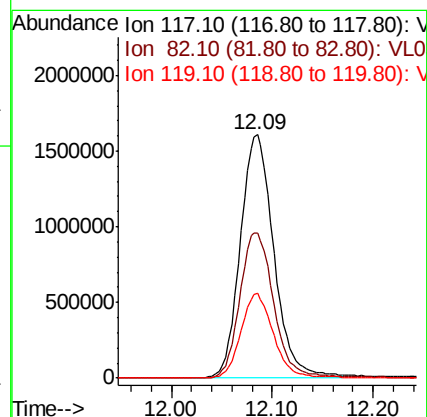
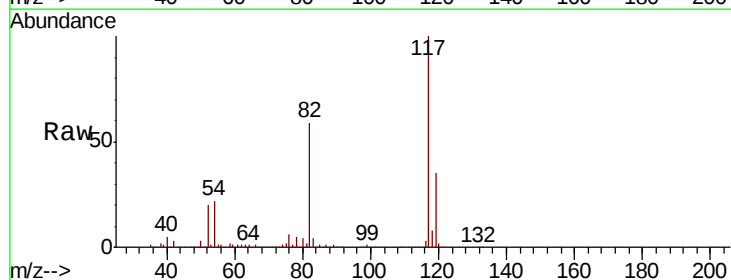
Tgt Ion: 117 Resp: 3719024

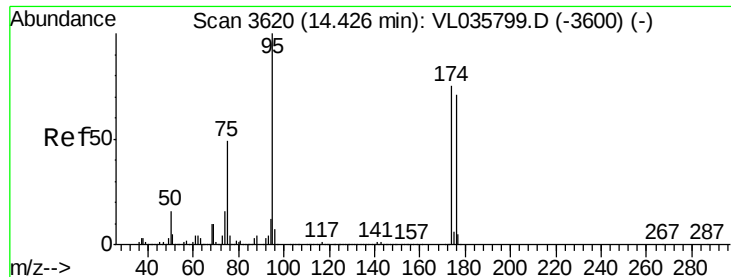
Ion Ratio Lower Upper

117 100

82 61.2 50.6 76.0

119 34.3 52.6 78.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.246 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035925.D

Acq: 12 Nov 2020 22:38

Instrument :

MSVOA_L

ClientSampleId :

LA-1DL

Tot Ion: 95 Resp: 2707392

Ion Ratio Lower Upper

95 100

174 73.0 59.8 89.6

175 5.1 4.3 6.5

