

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092120\
 Data File : VL035691.D
 Acq On : 21 Sep 2020 18:22
 Operator : SY/AP
 Sample : L3983-04DL2 200X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12DL2

Quant Time: Sep 22 01:29:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1032124	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3945051	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3978694	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2939400	10.40	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

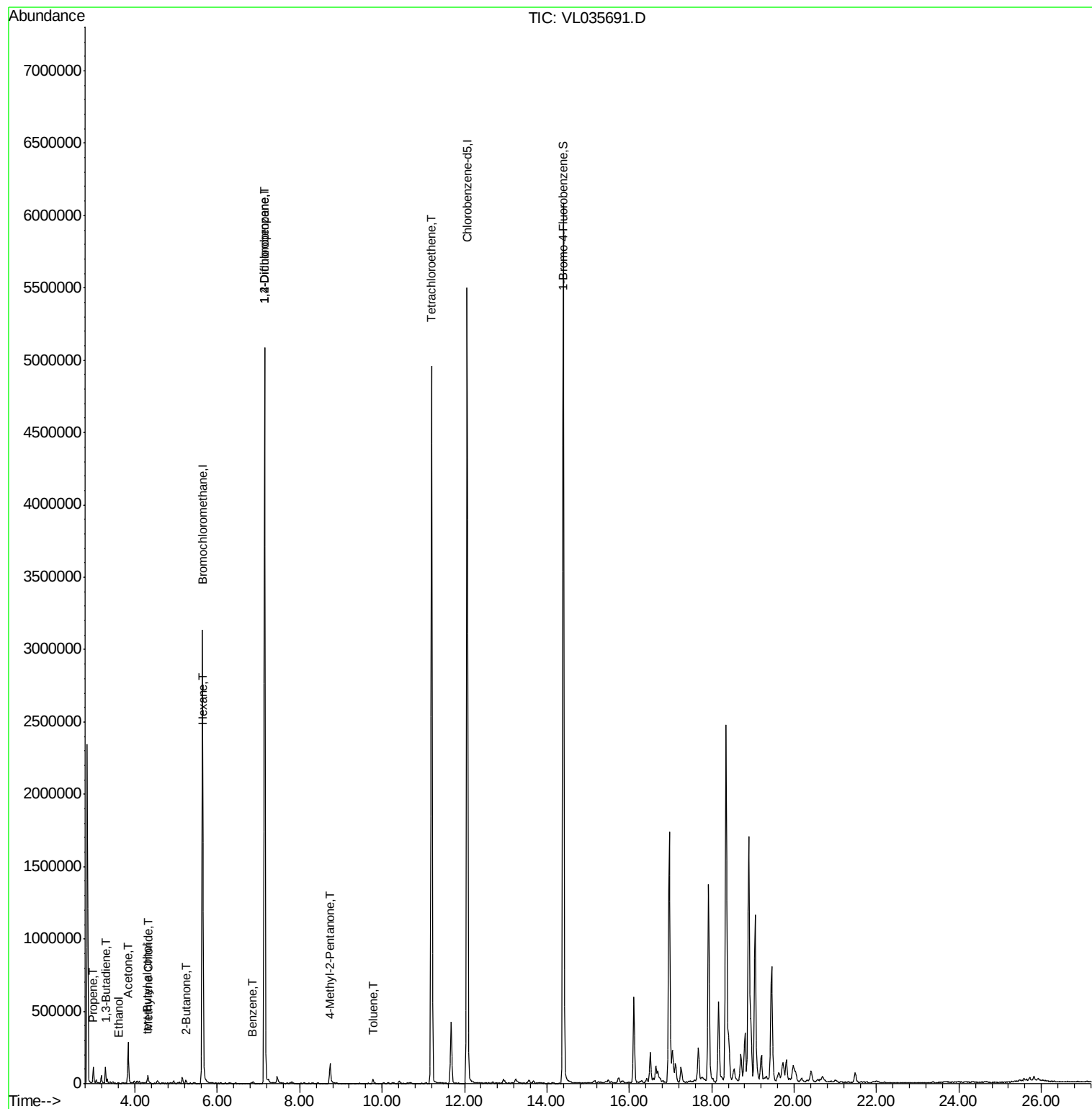
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.99	41	41814	0.950	ppbv	95
13) Ethanol	3.60	45	5232	0.480	ppbv	84
15) Acetone	3.83	43	270935	2.380	ppbv	96
16) 1,3-Butadiene	3.29	39	27869	0.658	ppbv #	14
17) tert-Butyl alcohol	4.30	59	10263	0.074	ppbv	99
20) Methylene Chloride	4.32	84	22367	0.264	ppbv	96
26) Hexane	5.66	57	4807	0.042	ppbv #	46
34) 2-Butanone	5.23	43	23747	0.203	ppbv	92
36) Benzene	6.86	78	10513	0.041	ppbv	95
39) 1,2-Dichloropropane	7.15	63	756260	8.767	ppbv #	32
50) 4-Methyl-2-Pentanone	8.74	43	96146	0.567	ppbv	89
52) Tetrachloroethene	11.20	164	1352167	9.064	ppbv	97
53) Toluene	9.79	91	10230	0.032	ppbv #	15

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
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QLast Update : Mon Sep 14 15:19:50 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: VL035691.D

Acq: 21 Sep 2020 18:22

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL2

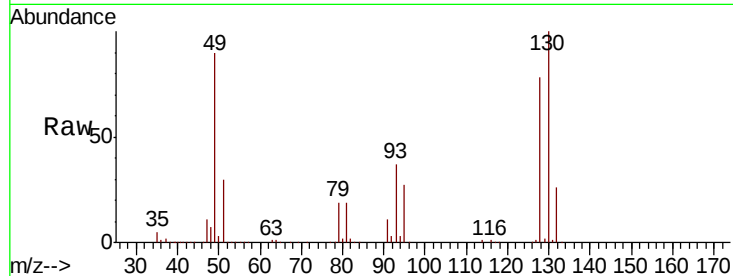
Tot Ion: 49 Resp: 1032124

Ion Ratio Lower Upper

49 100

128 86.7 50.0 150.1

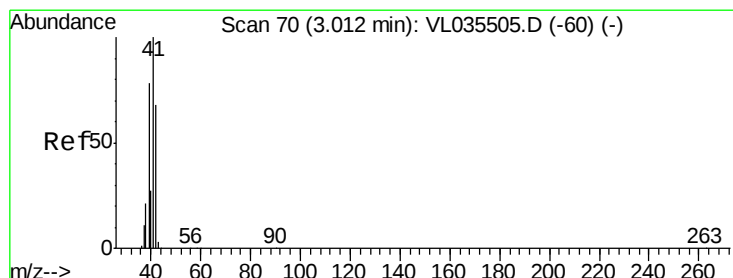
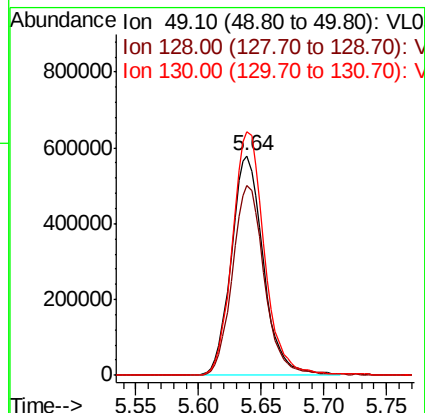
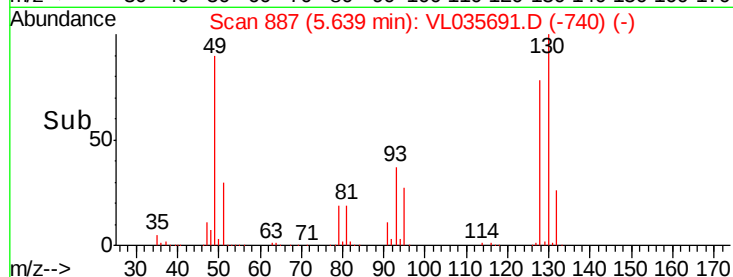
130 111.2 64.4 193.2



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



#9

Propene

Concen: 0.950 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL035691.D

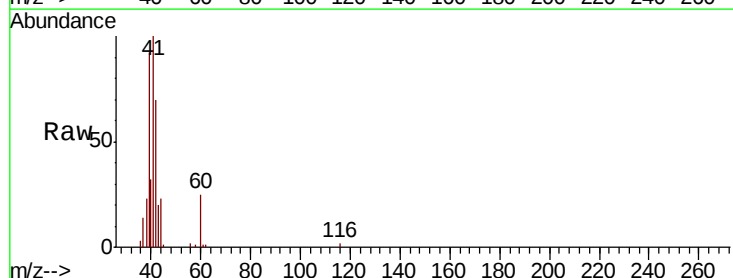
Acq: 21 Sep 2020 18:22

Tgt Ion: 41 Resp: 41814

Ion Ratio Lower Upper

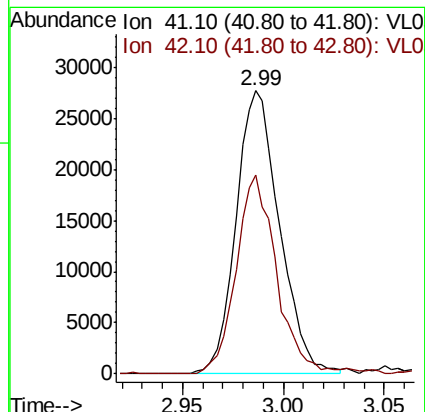
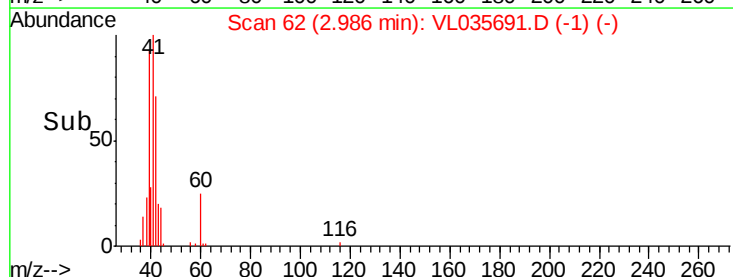
41 100

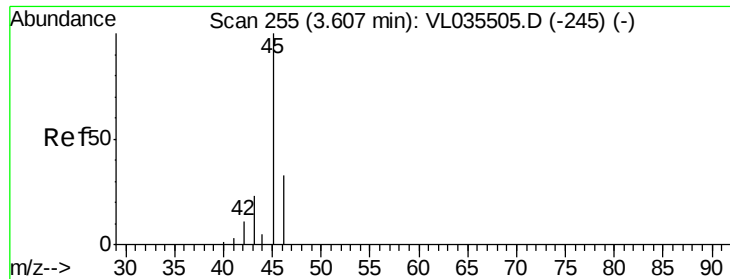
42 65.9 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.480 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL035691.D

Acq: 21 Sep 2020 18:22

Instrument :

MSVOA_L

ClientSampleId :

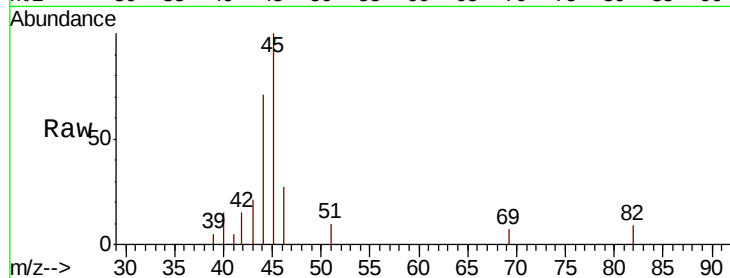
SV-12DL2

Tot Ion: 45 Resp: 5232

Ion Ratio Lower Upper

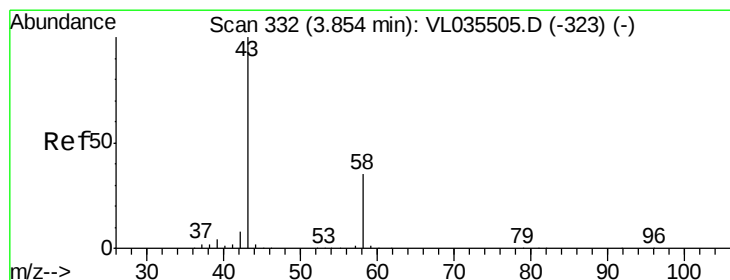
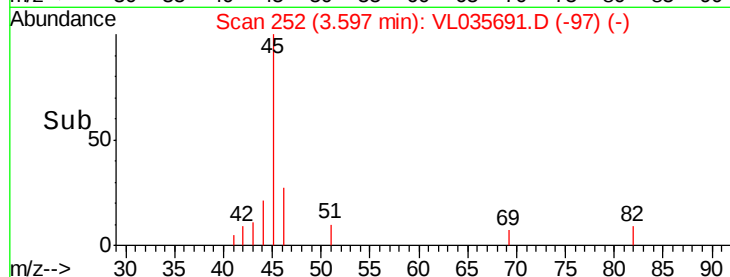
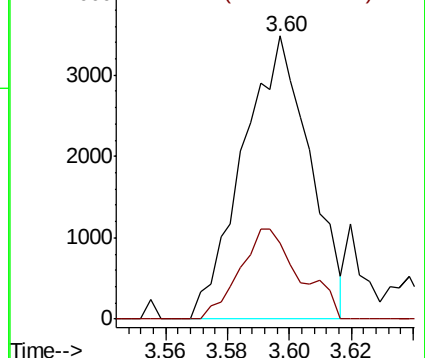
45 100

46 28.5 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 2.380 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL035691.D

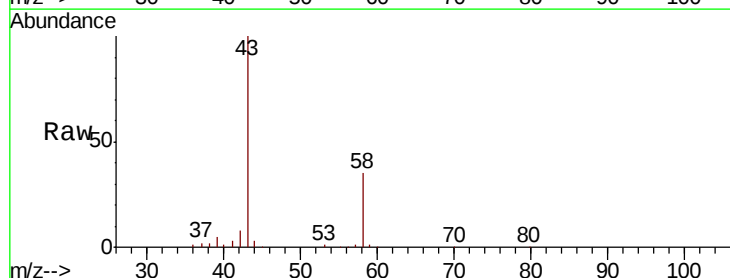
Acq: 21 Sep 2020 18:22

Tgt Ion: 43 Resp: 270935

Ion Ratio Lower Upper

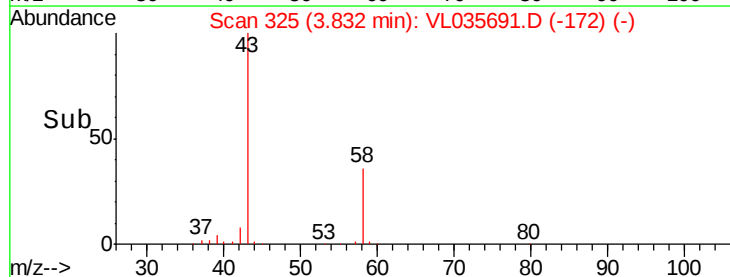
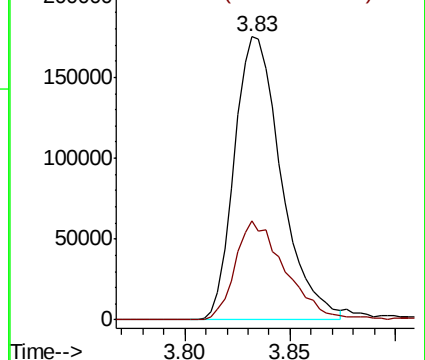
43 100

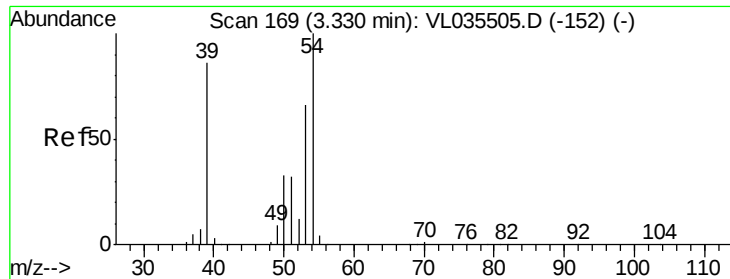
58 38.1 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.658 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.03 min

Lab File: VL035691.D

Acq: 21 Sep 2020 18:22

Instrument :

MSVOA_L

ClientSampleId :

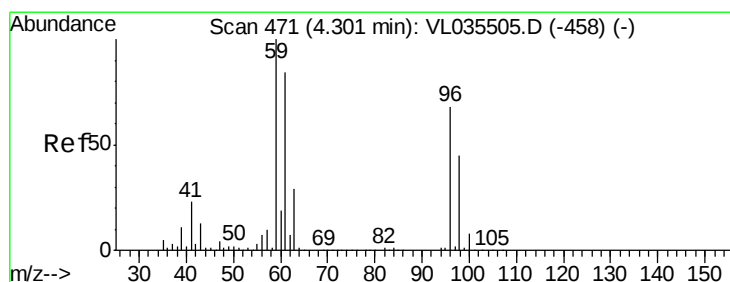
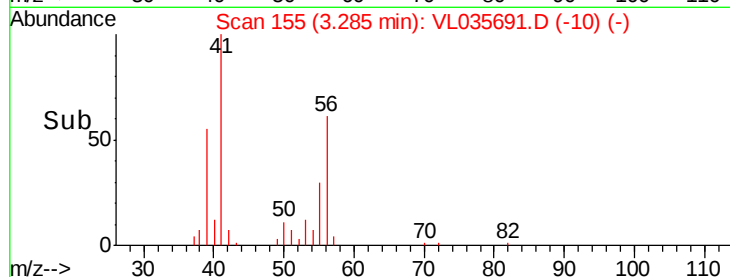
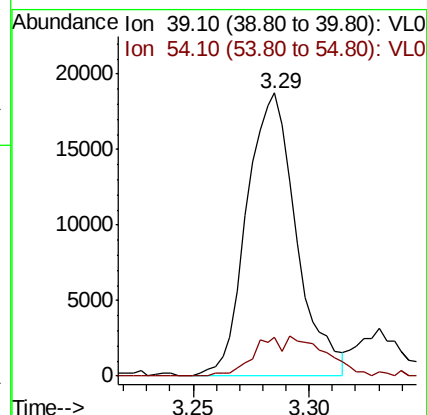
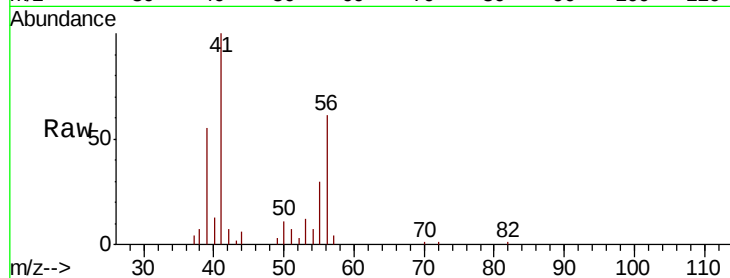
SV-12DL2

Tot Ion: 39 Resp: 27869

Ion Ratio Lower Upper

39 100

54 19.8 88.4 132.6#



#17

tert-Butyl alcohol

Concen: 0.074 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL035691.D

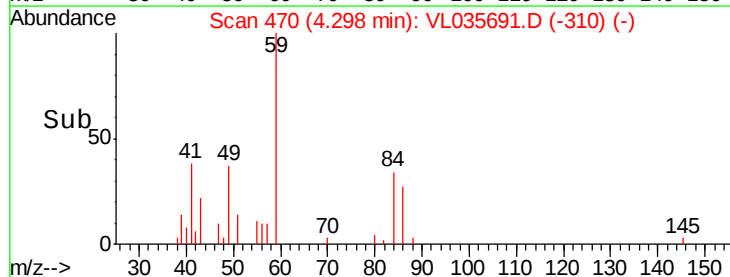
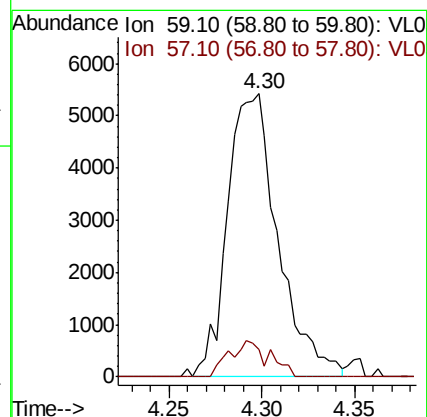
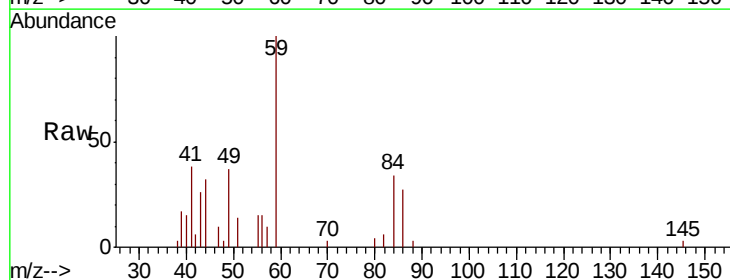
Acq: 21 Sep 2020 18:22

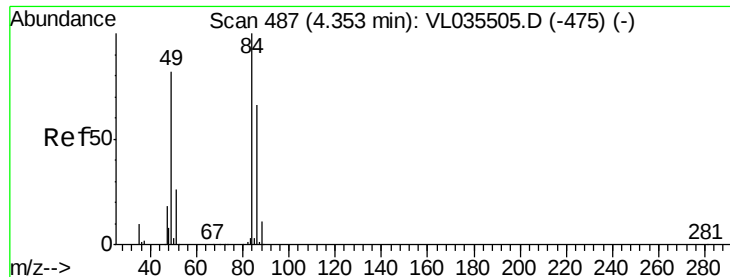
Tgt Ion: 59 Resp: 10263

Ion Ratio Lower Upper

59 100

57 10.1 8.4 12.6

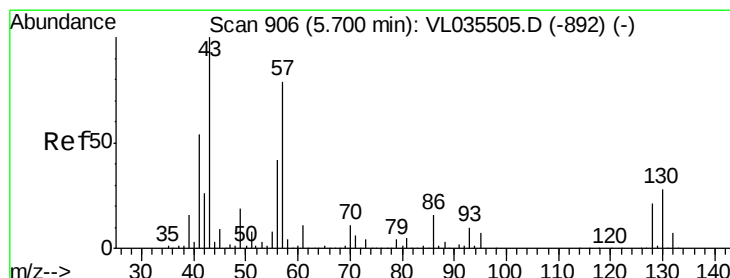
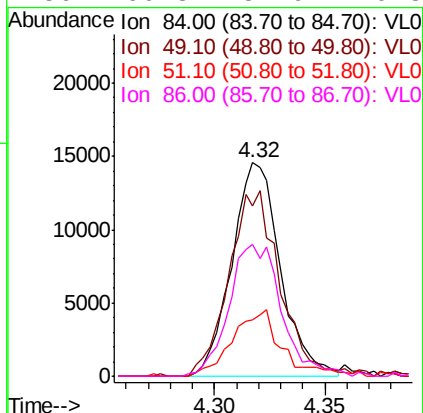
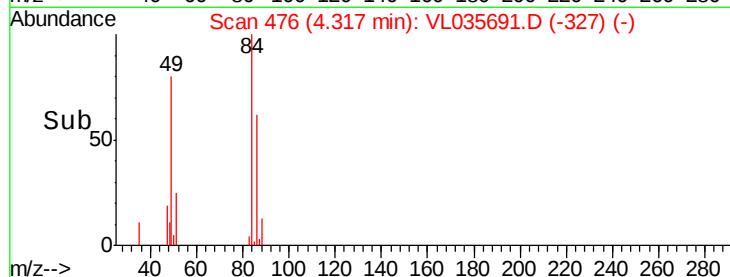
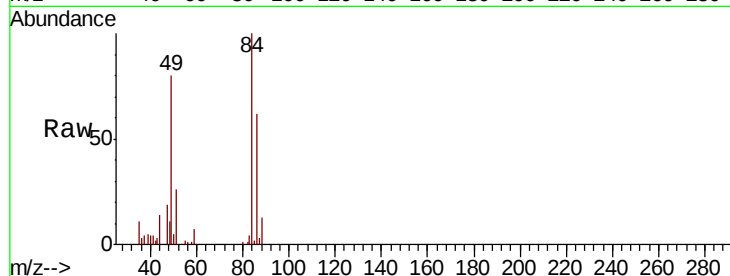




#20
Methvlene Chloride
Concen: 0.264 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.02 min
Lab File: VL035691.D
Acq: 21 Sep 2020 18:22

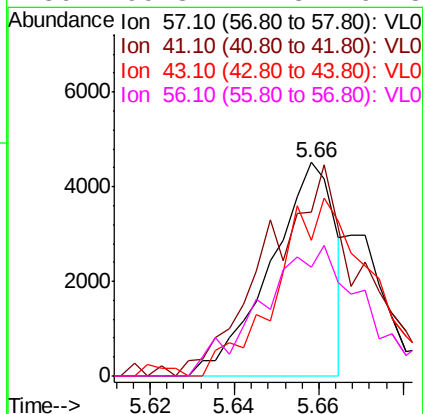
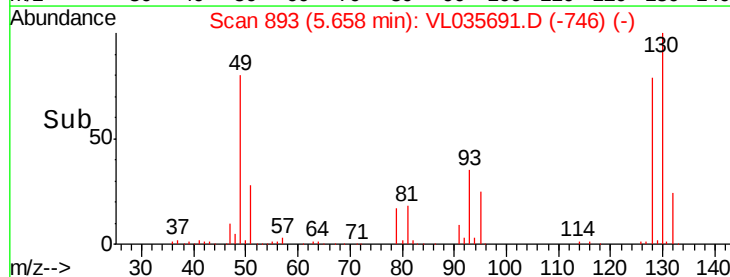
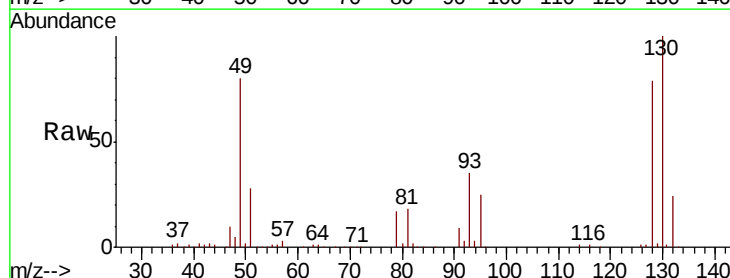
Instrument :
MSVOA_L
ClientSampleId :
SV-12DL2

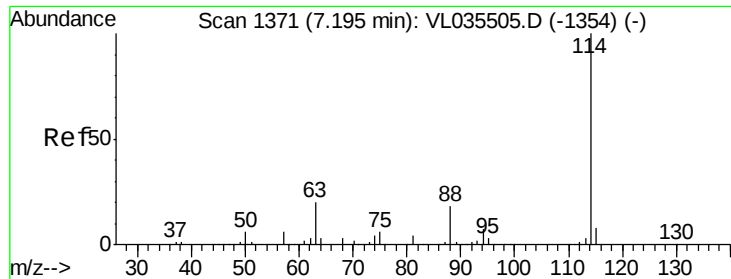
Tot Ion:	84	Resp:	22367
Ion	Ratio	Lower	Upper
84	100		
49	79.8	65.4	98.0
51	26.3	21.5	32.3
86	60.3	52.9	79.3



#26
Hexane
Concen: 0.042 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035691.D
Acq: 21 Sep 2020 18:22

Tgt Ion:	57	Resp:	4807
Ion	Ratio	Lower	Upper
57	100		
41	150.4	55.9	83.9#
43	130.2	141.8	212.8#
56	99.3	41.8	62.8#

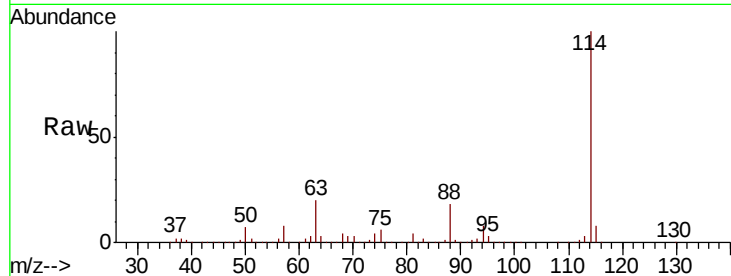




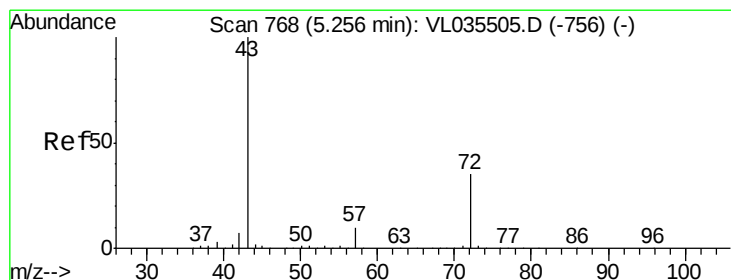
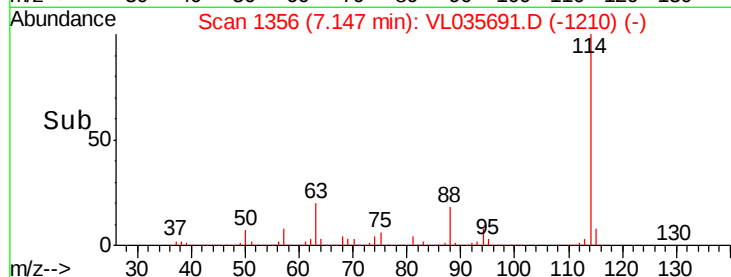
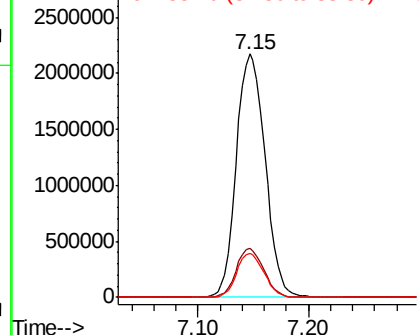
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL035691.D
 Acq: 21 Sep 2020 18:22

Instrument :
 MSVOA_L
 ClientSampleID :
 SV-12DL2

Tot Ion:114 Resp: 3945051
 Ion Ratio Lower Upper
 114 100
 63 19.3 14.7 22.1
 88 17.1 13.4 20.2

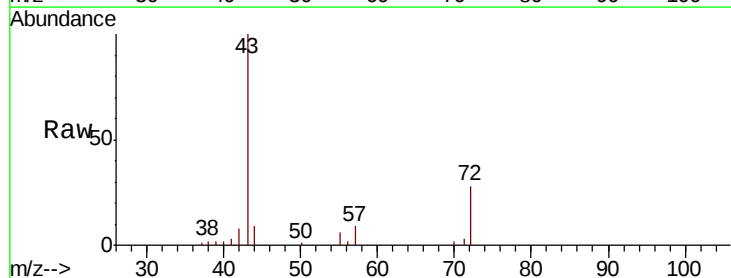


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

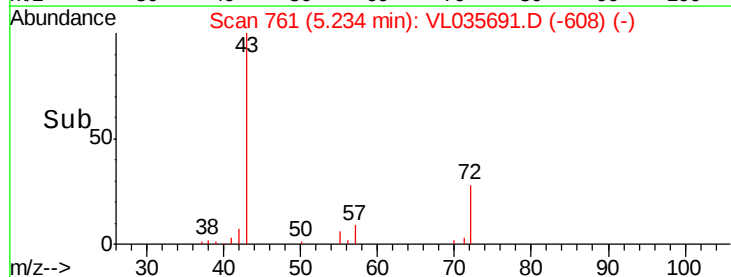
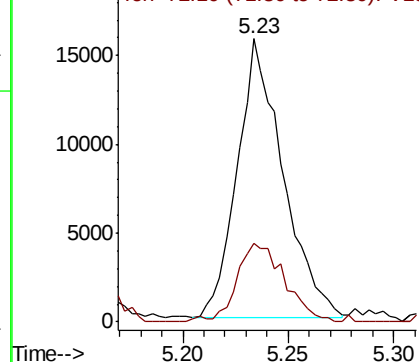


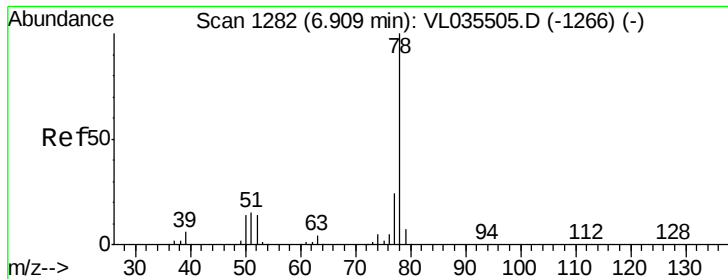
#34
 2-Butanone
 Concen: 0.203 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: VL035691.D
 Acq: 21 Sep 2020 18:22

Tgt Ion: 43 Resp: 23747
 Ion Ratio Lower Upper
 43 100
 72 29.7 27.7 41.5



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





#36

Benzene

Concen: 0.041 ppbv

RT: 6.86 min Scan# 1266

Delta R.T. -0.04 min

Lab File: VL035691.D

Acq: 21 Sep 2020 18:22

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL2

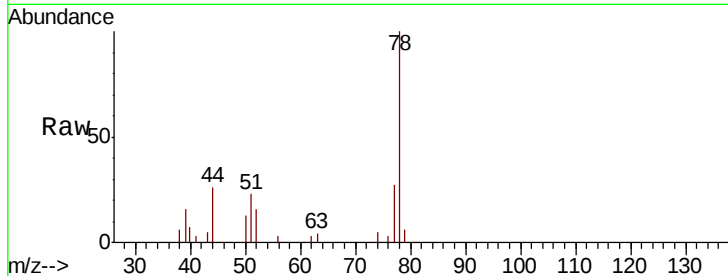
Tot Ion: 78 Resp: 10513

Ion Ratio Lower Upper

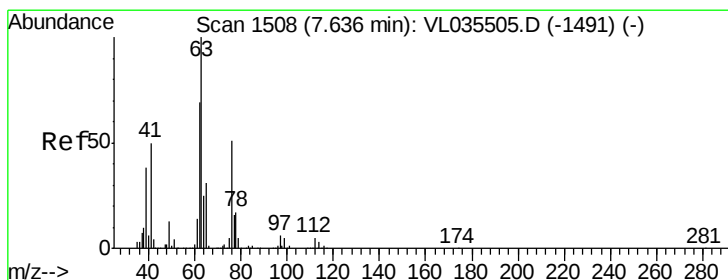
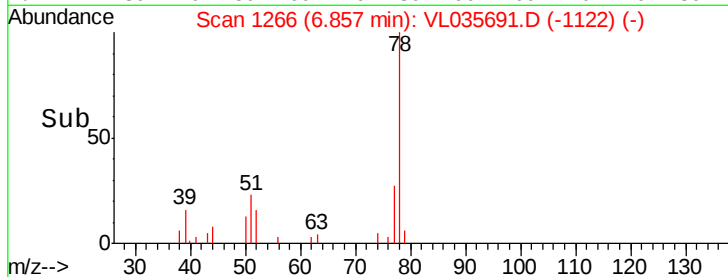
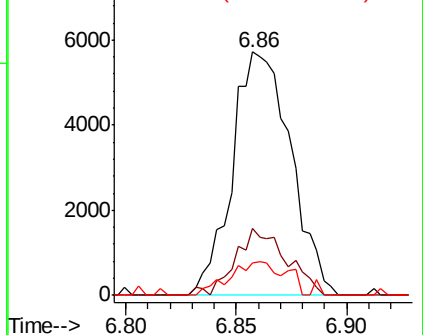
78 100

77 27.4 19.3 28.9

50 13.4 11.0 16.6



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.767 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.47 min

Lab File: VL035691.D

Acq: 21 Sep 2020 18:22

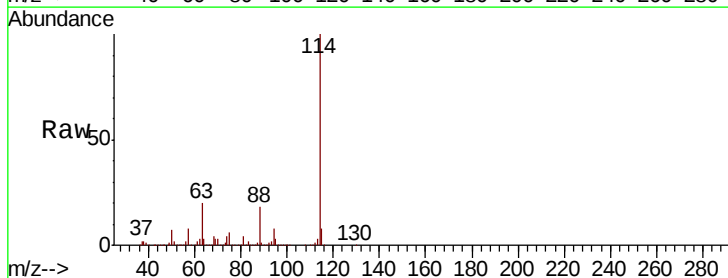
Tgt Ion: 63 Resp: 756260

Ion Ratio Lower Upper

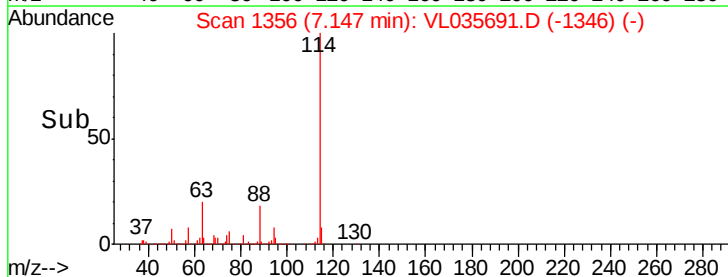
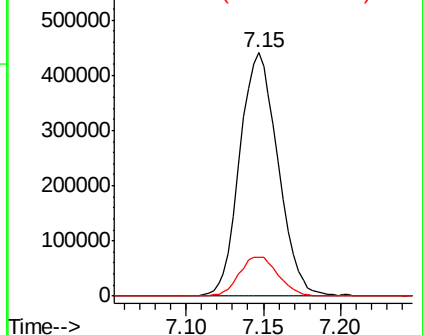
63 100

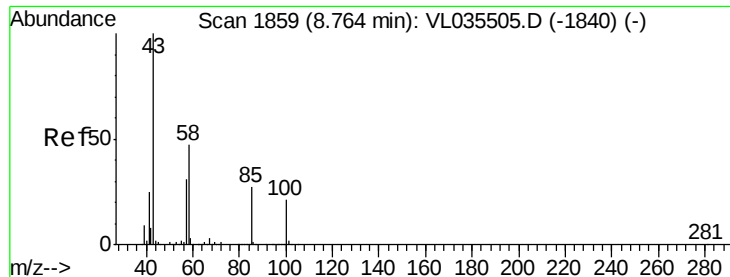
41 0.0 40.0 60.0#

62 15.9 55.4 83.0#



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

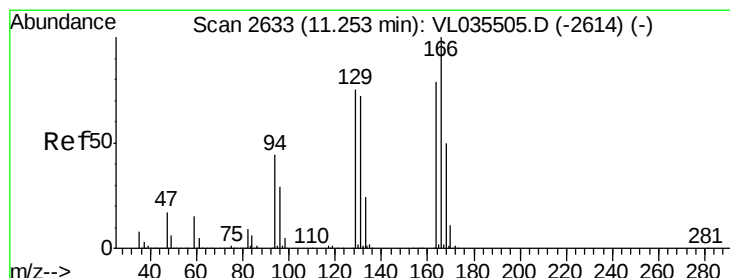
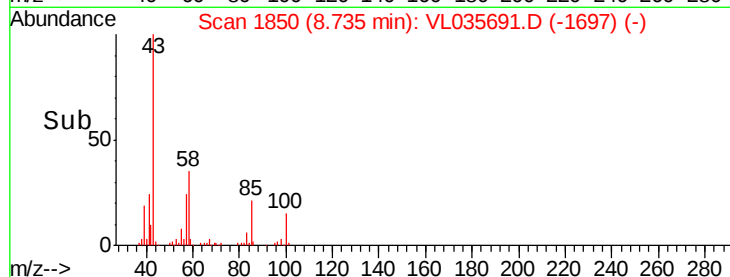
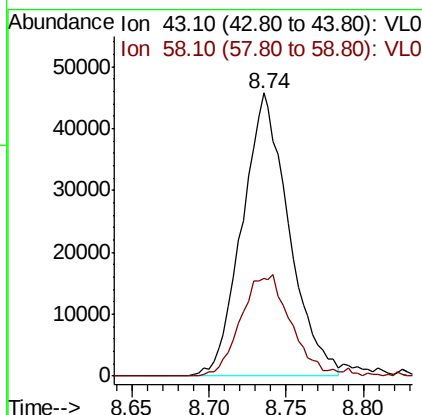
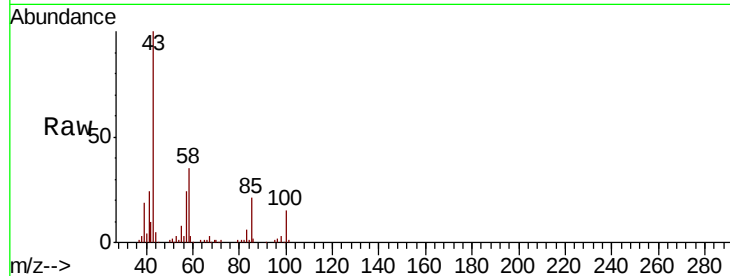




#50
 4-Methyl-2-Pentanone
 Concen: 0.567 ppbv
 RT: 8.74 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: VL035691.D
 Acq: 21 Sep 2020 18:22

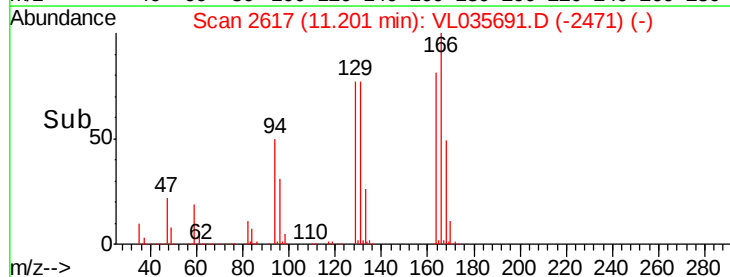
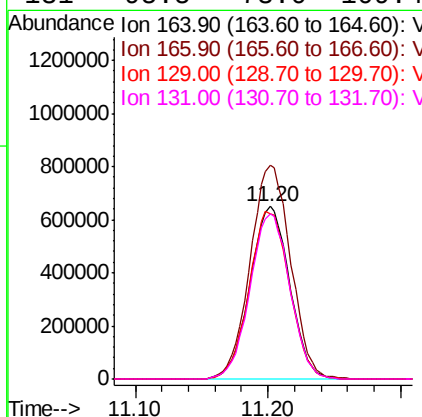
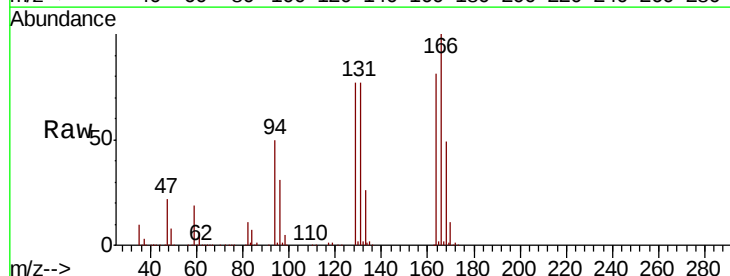
Instrument :
 MSVOA_L
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 SV-12DL2

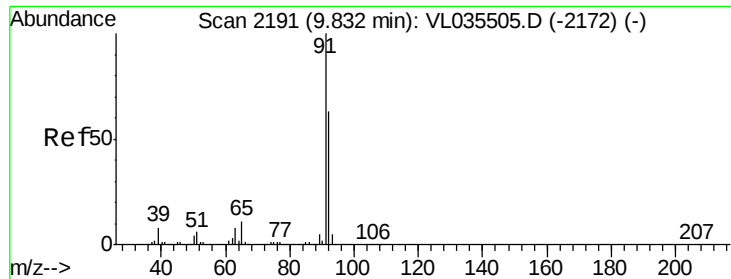
Tot Ion: 43 Resp: 96146
 Ion Ratio Lower Upper
 43 100
 58 39.2 37.4 56.0



#52
 Tetrachloroethene
 Concen: 9.064 ppbv
 RT: 11.20 min Scan# 2617
 Delta R.T. -0.03 min
 Lab File: VL035691.D
 Acq: 21 Sep 2020 18:22

Tgt Ion: 164 Resp: 1352167
 Ion Ratio Lower Upper
 164 100
 166 123.9 100.9 151.3
 129 95.6 75.3 112.9
 131 95.5 73.0 109.4





#53

Toluene

Concen: 0.032 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL035691.D

Acq: 21 Sep 2020 18:22

Instrument :

MSVOA_L

ClientSampleId :

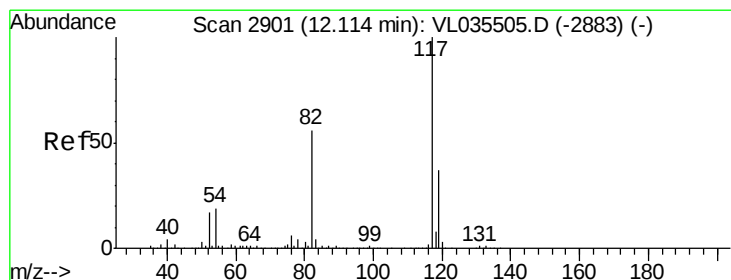
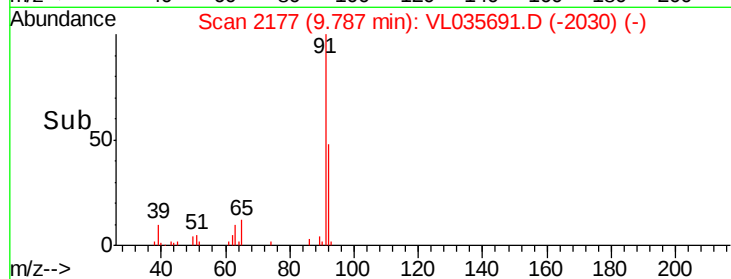
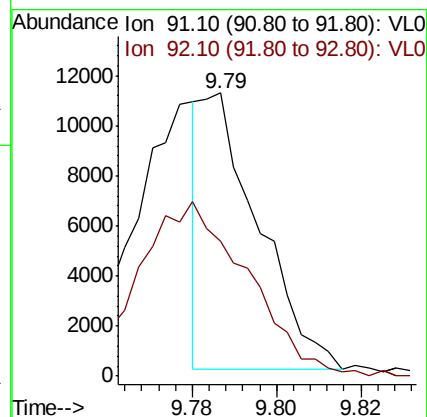
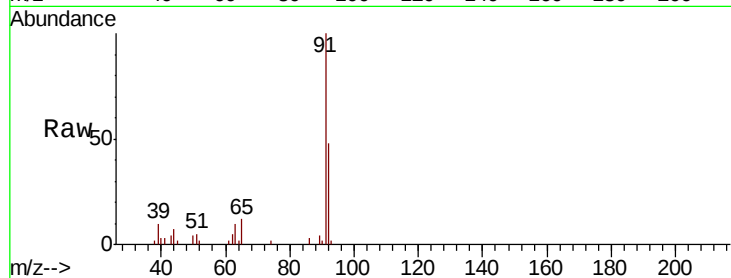
SV-12DL2

Tot Ion: 91 Resp: 10230

Ion Ratio Lower Upper

91 100

92 128.0 49.8 74.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL035691.D

Acq: 21 Sep 2020 18:22

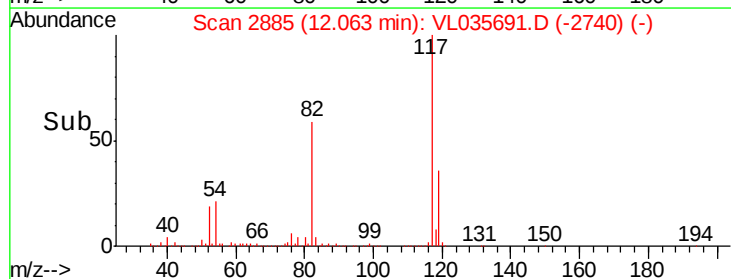
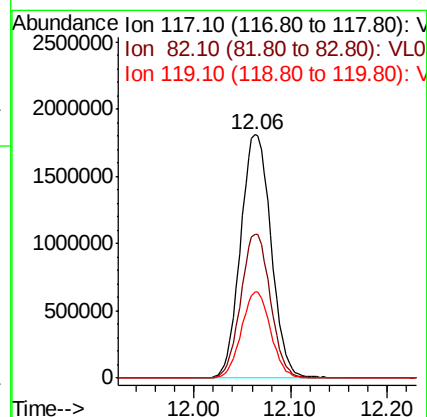
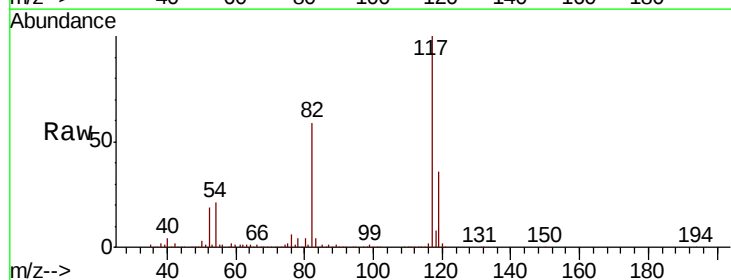
Tgt Ion: 117 Resp: 3978694

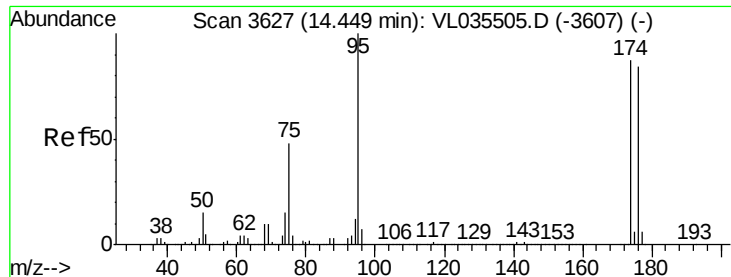
Ion Ratio Lower Upper

117 100

82 57.6 41.6 62.4

119 34.0 29.3 43.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.403 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.04 min
 Lab File: VL035691.D
 Acq: 21 Sep 2020 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12DL2

Tot Ion: 95 Resp: 2939400
 Ion Ratio Lower Upper
 95 100
 174 77.4 69.6 104.4
 175 5.5 5.1 7.7

