

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035638.D
 Acq On : 16 Sep 2020 21:04
 Operator : SY/AP
 Sample : L4036-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y01DL

Quant Time: Sep 17 07:09:00 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	5.66	49	1262803	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4930734	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4881916	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3588948	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

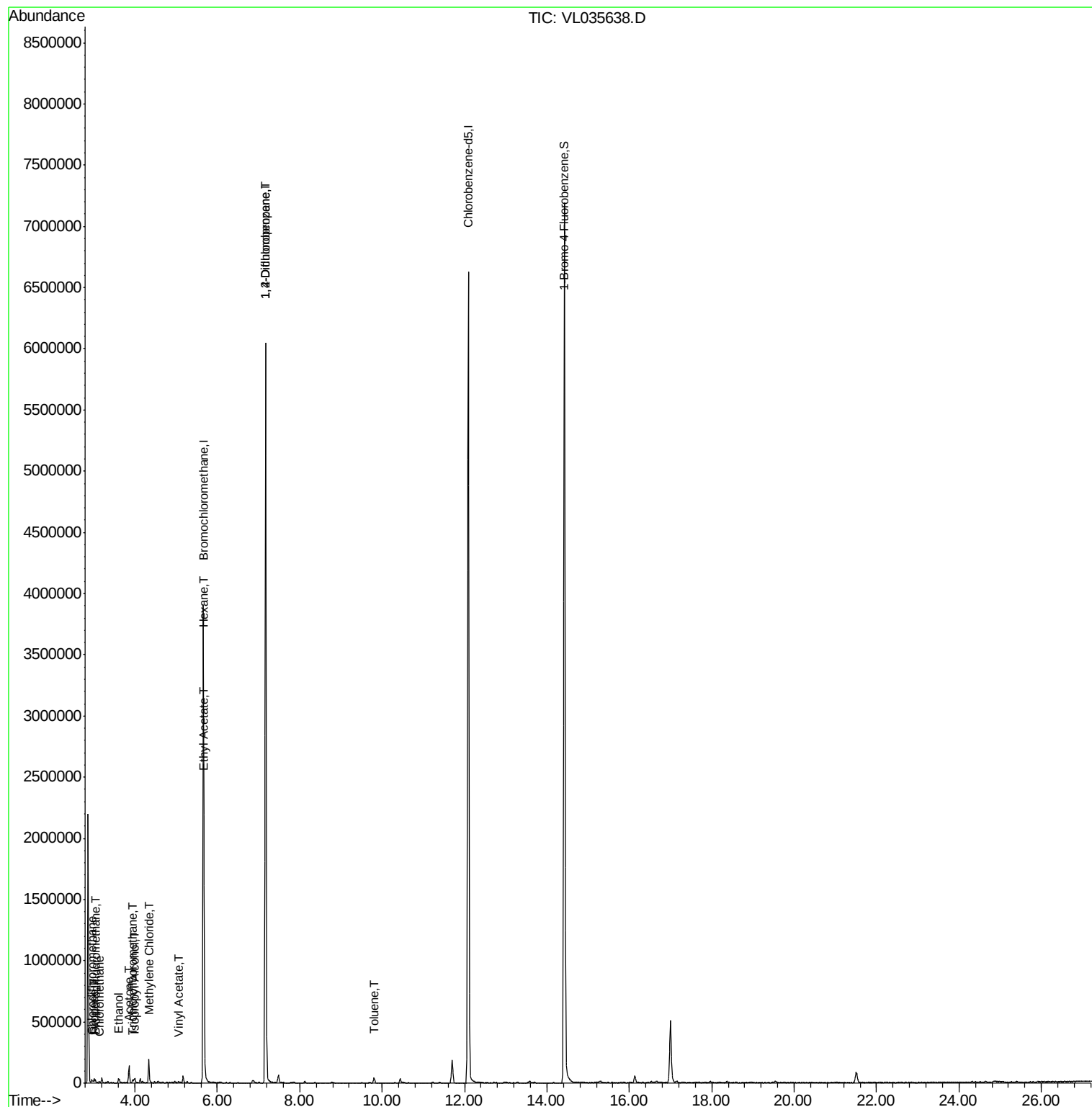
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	19308	0.088	ppbv	89
3) Chlorodifluoromethane	2.96	51	22295	0.160	ppbv #	70
4) Chloromethane	3.13	50	11158	0.149	ppbv	96
9) Propene	3.01	41	4214	0.078	ppbv #	73
11) Trichlorofluoromethane	3.94	101	16636	0.052	ppbv	96
13) Ethanol	3.60	45	39112	2.930	ppbv	96
15) Acetone	3.85	43	122335	0.878	ppbv	89
19) Isopropyl Alcohol	3.98	45	28973	0.349	ppbv #	84
20) Methylene Chloride	4.34	84	82589	0.796	ppbv	93
23) Vinyl Acetate	5.06	43	8541	0.048	ppbv #	82
25) Ethyl Acetate	5.68	43	19708	0.080	ppbv #	83
26) Hexane	5.68	57	11913	0.085	ppbv #	1
39) 1,2-Dichloropropane	7.17	63	956852	8.875	ppbv #	32
53) Toluene	9.81	91	36124	0.090	ppbv	95

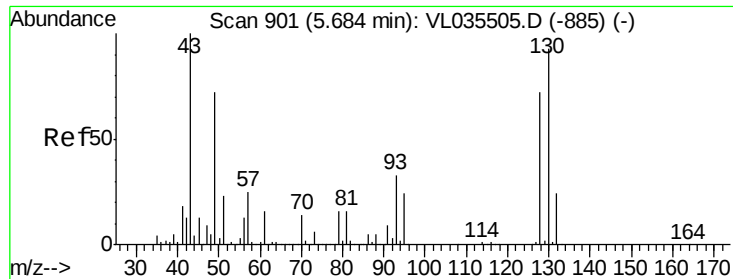
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Instrument :

MSVOA_L

ClientSampleID :

DB-IA-Y01DL

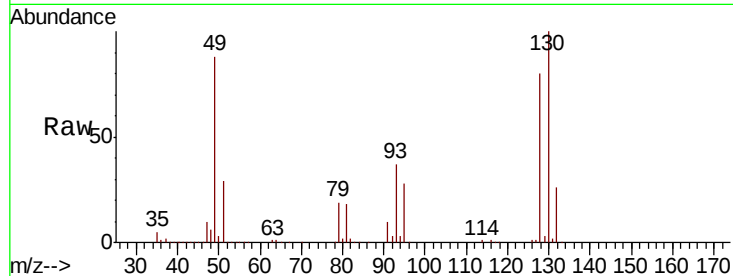
Tot Ion: 49 Resp: 1262803

Ion Ratio Lower Upper

49 100

128 91.4 50.0 150.1

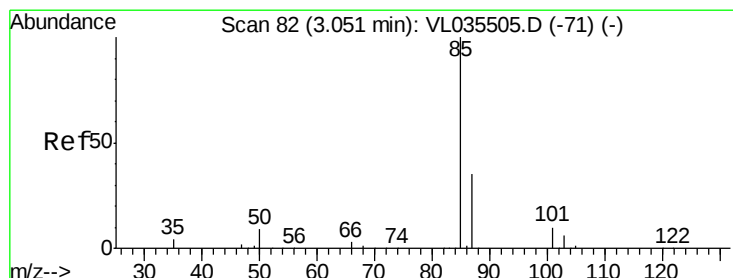
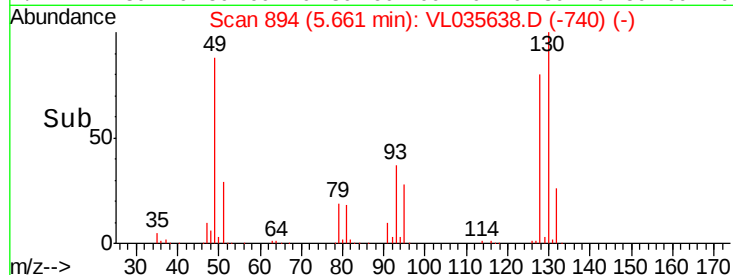
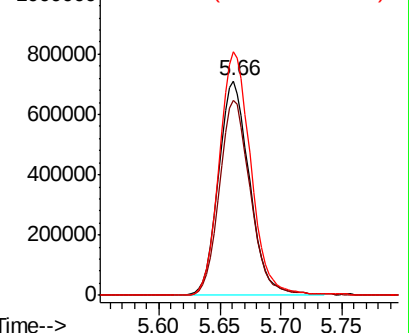
130 115.7 64.4 193.2



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



#2

Dichlorodifluoromethane

Concen: 0.088 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035638.D

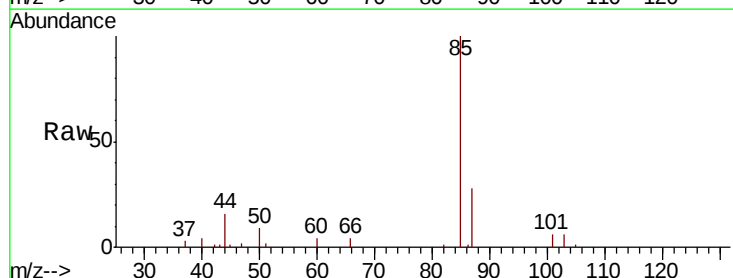
Acq: 16 Sep 2020 21:04

Tgt Ion: 85 Resp: 19308

Ion Ratio Lower Upper

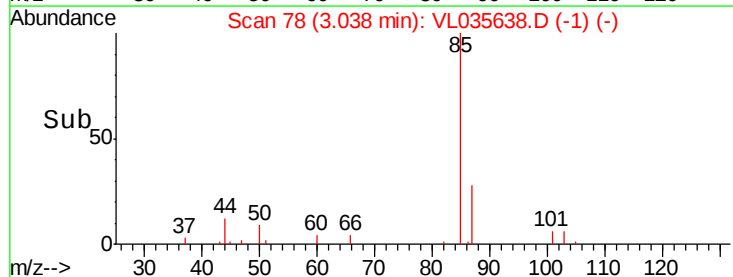
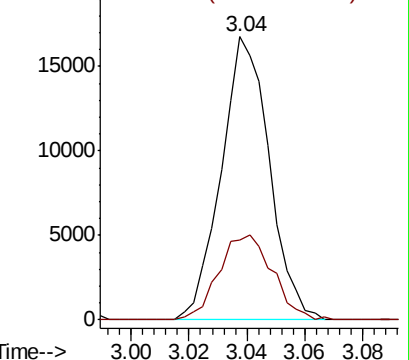
85 100

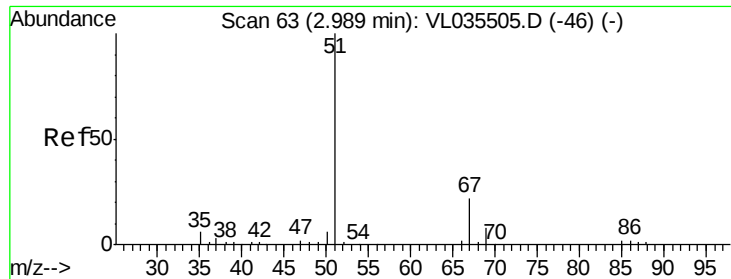
87 28.4 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.160 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.02 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Instrument :

MSVOA_L

ClientSampleId :

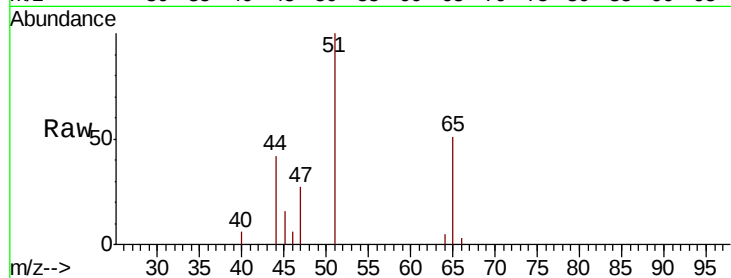
DB-IA-Y01DL

Tot Ion: 51 Resp: 22295

Ion Ratio Lower Upper

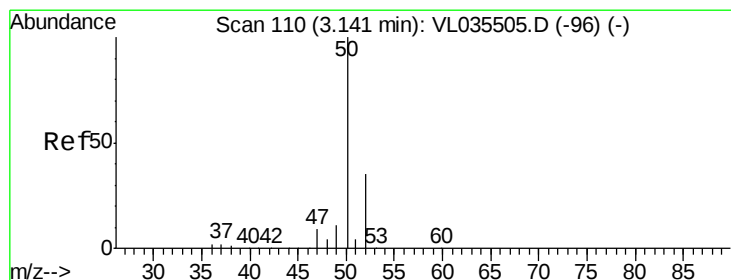
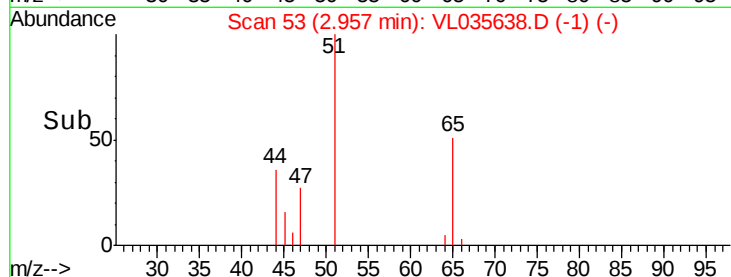
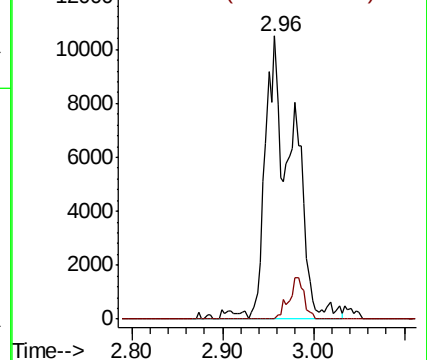
51 100

67 8.0 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.149 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL035638.D

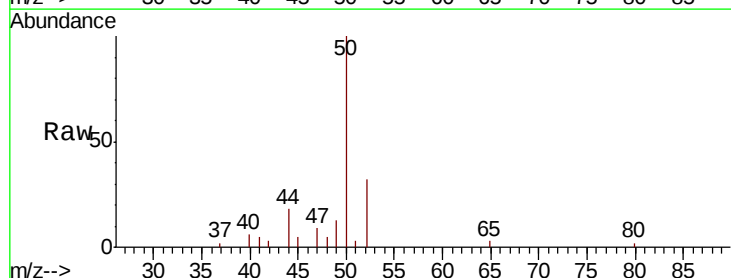
Acq: 16 Sep 2020 21:04

Tgt Ion: 50 Resp: 11158

Ion Ratio Lower Upper

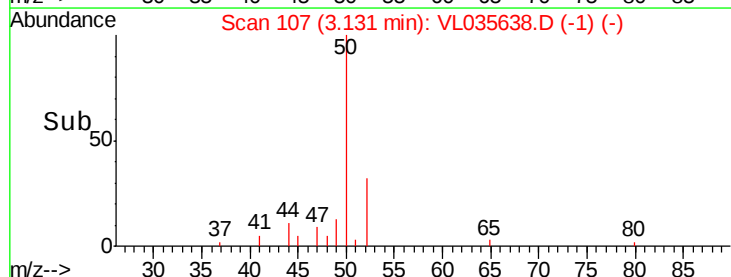
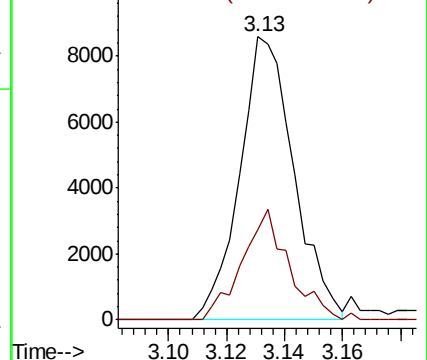
50 100

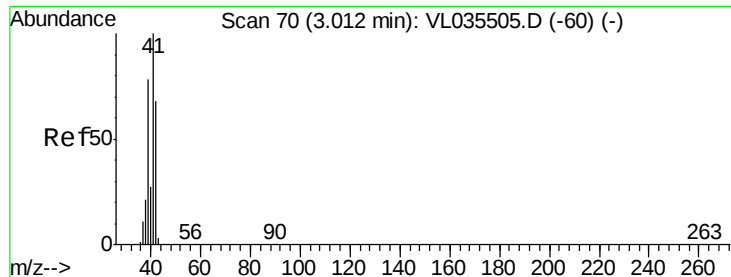
52 32.0 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.078 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Instrument :

MSVOA_L

ClientSampleId :

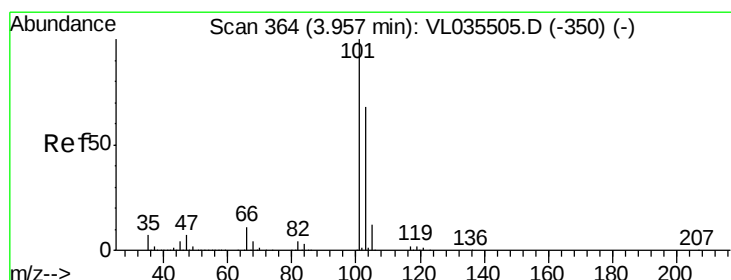
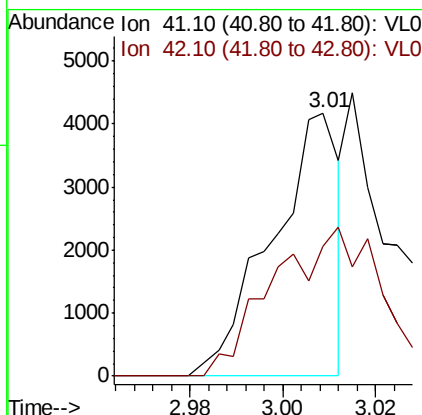
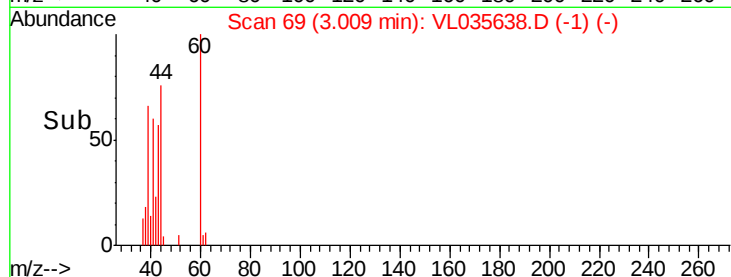
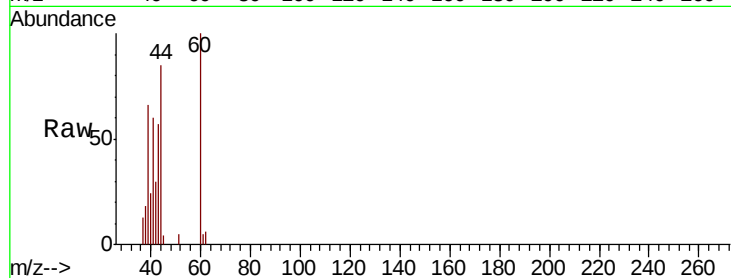
DB-IA-Y01DL

Tot Ion: 41 Resp: 4214

Ion Ratio Lower Upper

41 100

42 92.9 56.3 84.5#



#11

Trichlorofluoromethane

Concen: 0.052 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL035638.D

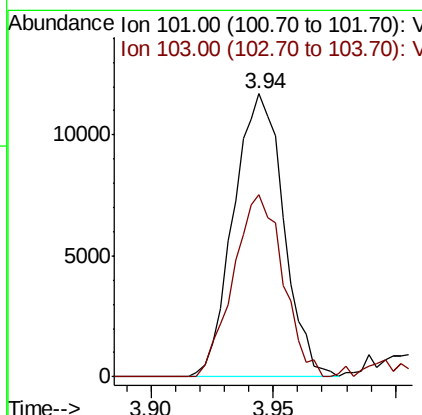
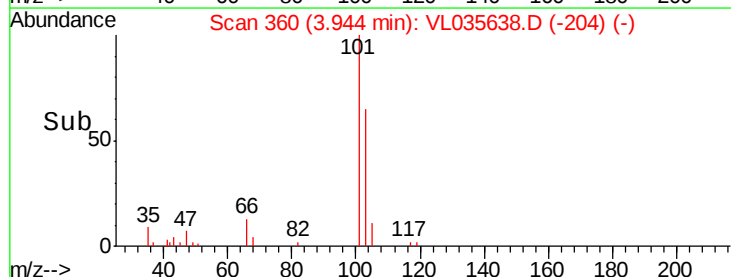
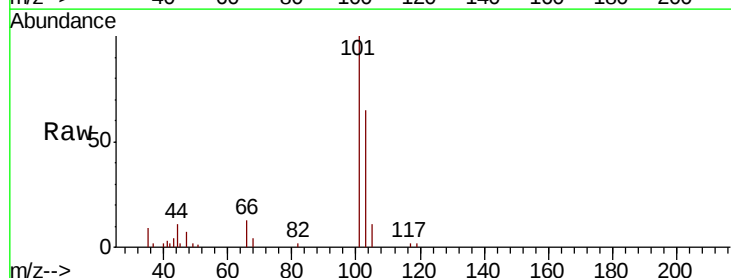
Acq: 16 Sep 2020 21:04

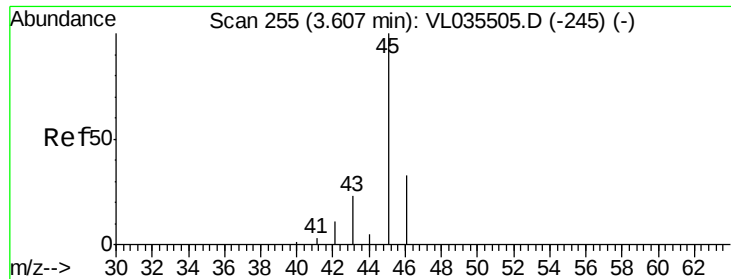
Tgt Ion: 101 Resp: 16636

Ion Ratio Lower Upper

101 100

103 64.6 54.5 81.7





#13

Ethanol

Concen: 2.930 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.01 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Instrument :

MSVOA_L

ClientSampleId :

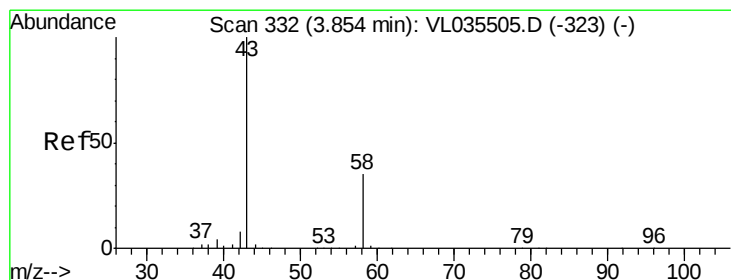
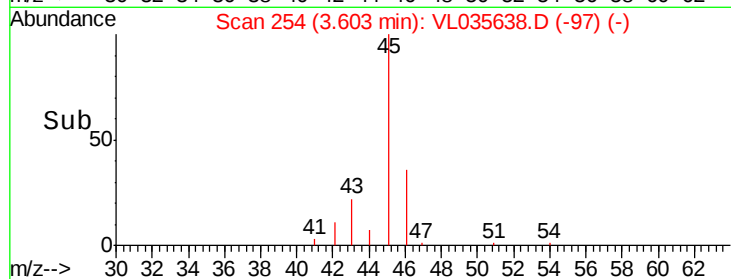
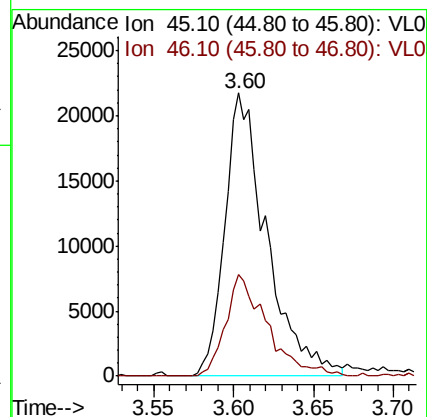
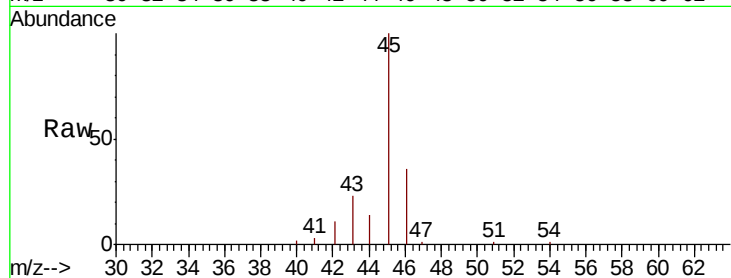
DB-IA-Y01DL

Tot Ion: 45 Resp: 39112

Ion Ratio Lower Upper

45 100

46 35.7 15.2 60.6



#15

Acetone

Concen: 0.878 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL035638.D

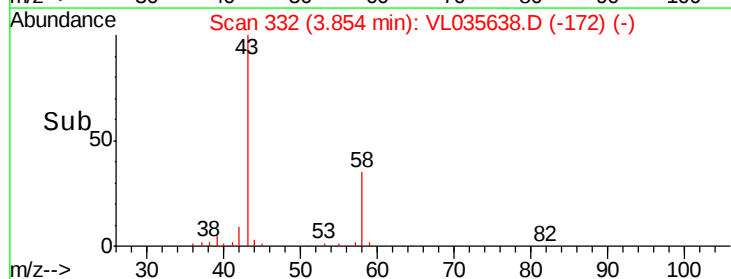
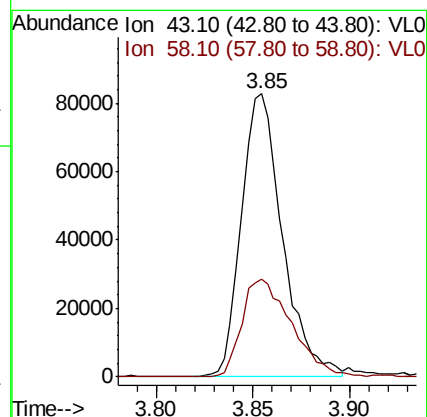
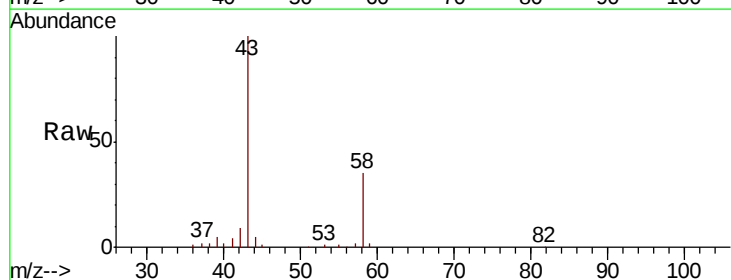
Acq: 16 Sep 2020 21:04

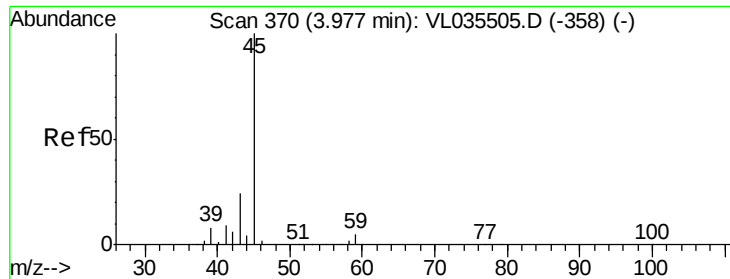
Tgt Ion: 43 Resp: 122335

Ion Ratio Lower Upper

43 100

58 42.0 28.4 42.6





#19

Isopropyl Alcohol

Concen: 0.349 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Instrument :

MSVOA_L

ClientSampleId :

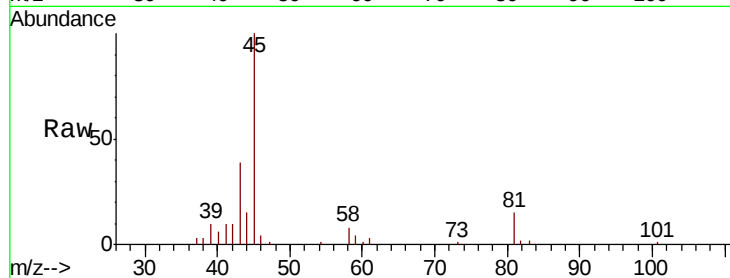
DB-IA-Y01DL

Tot Ion: 45 Resp: 28973

Ion Ratio Lower Upper

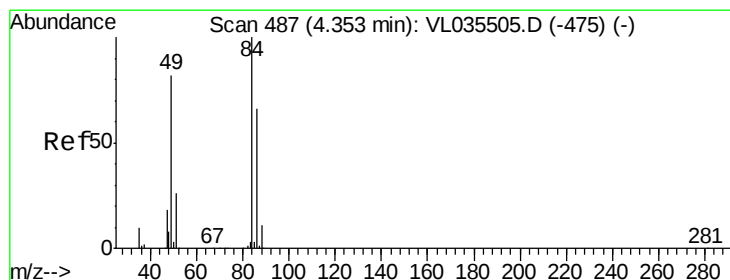
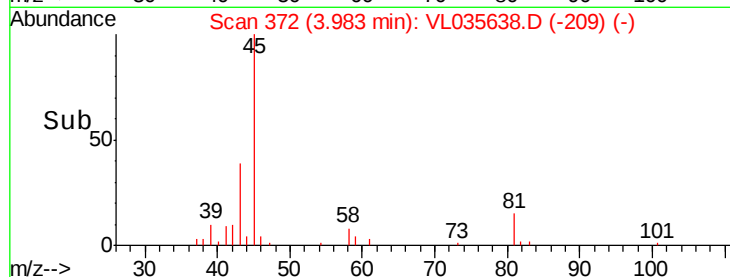
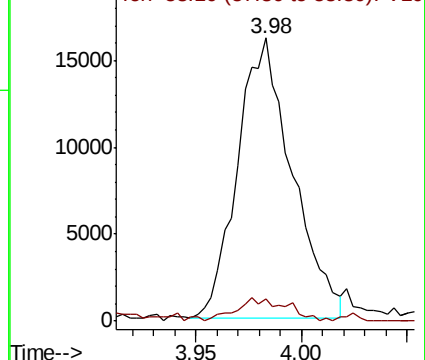
45 100

58 7.8 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.796 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Tgt Ion: 84 Resp: 82589

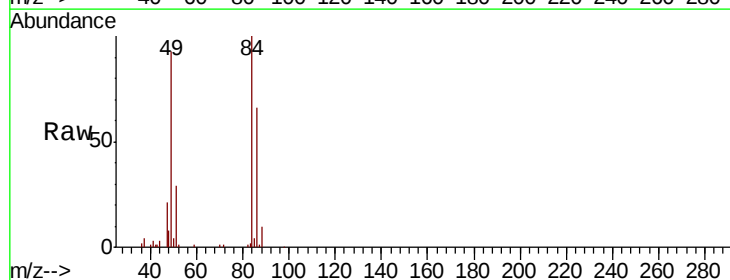
Ion Ratio Lower Upper

84 100

49 93.5 65.4 98.0

51 29.3 21.5 32.3

86 65.6 52.9 79.3

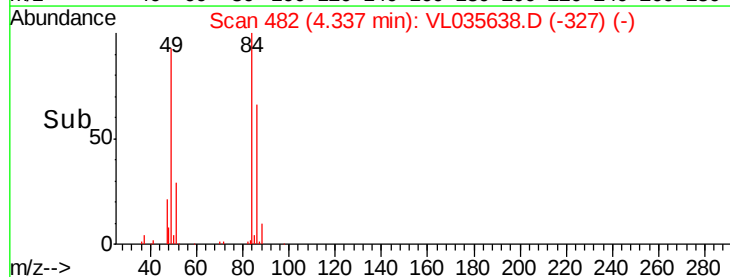
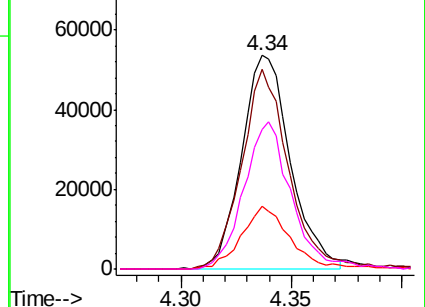


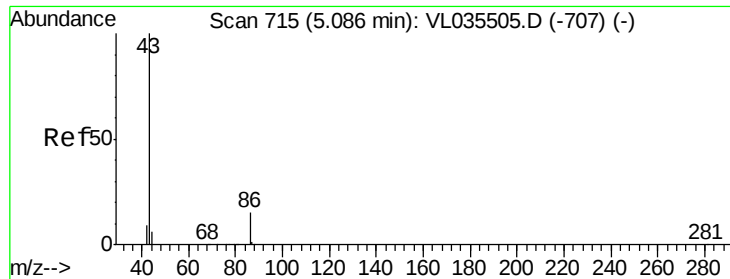
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.048 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.01 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Instrument :

MSVOA_L

ClientSampleID :

DB-IA-Y01DL

Tot Ion: 43 Resp: 8541

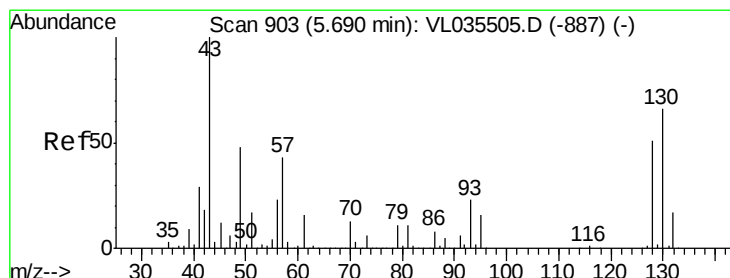
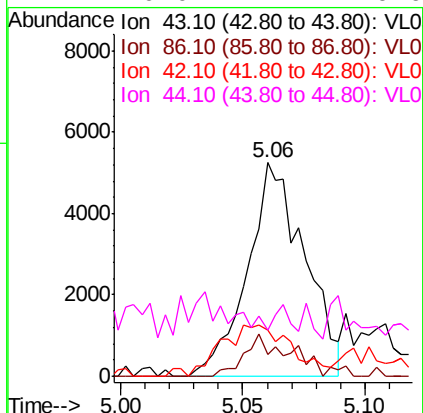
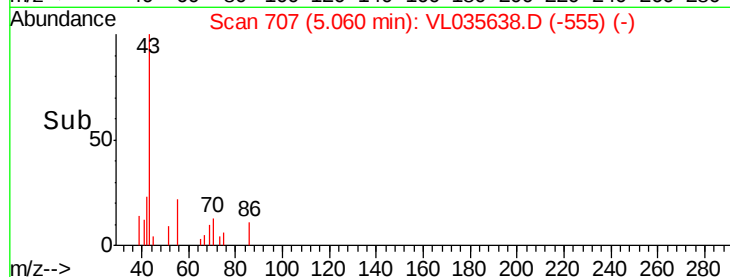
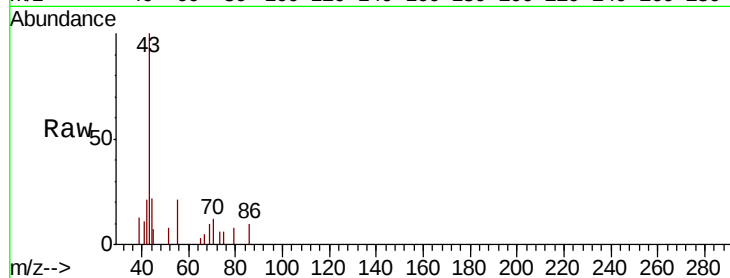
Ion Ratio Lower Upper

43 100

86 10.3 10.6 16.0#

42 21.4 7.5 11.3#

44 0.0 4.4 6.6#



#25

Ethyl Acetate

Concen: 0.080 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL035638.D

Acq: 16 Sep 2020 21:04

Tgt Ion: 43 Resp: 19708

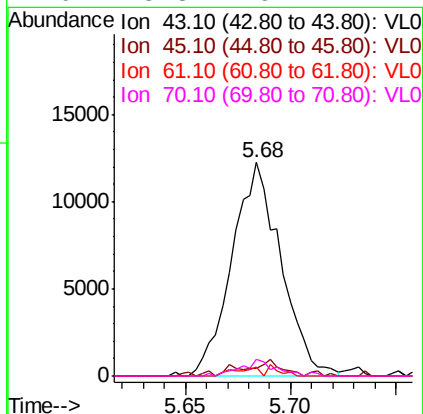
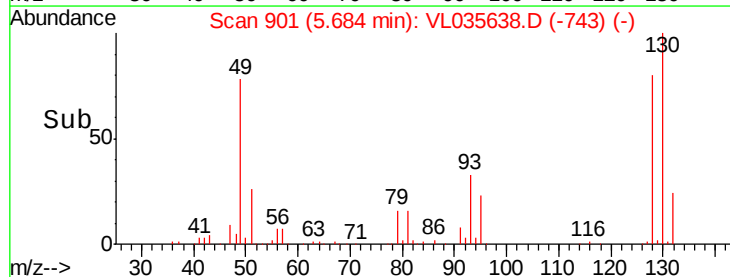
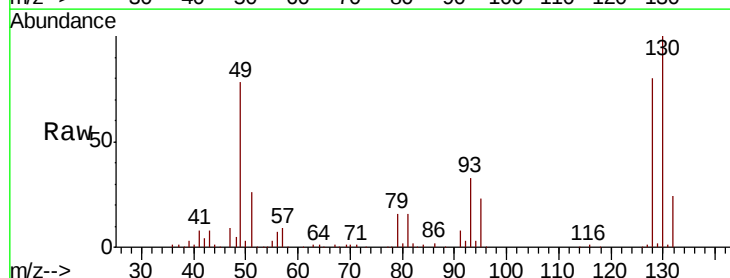
Ion Ratio Lower Upper

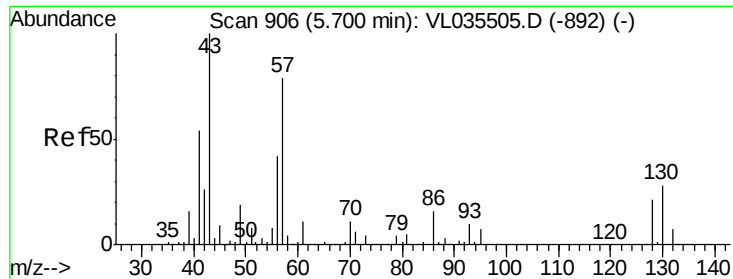
43 100

45 6.5 8.4 12.6#

61 3.4 10.6 16.0#

70 5.8 9.4 14.2#

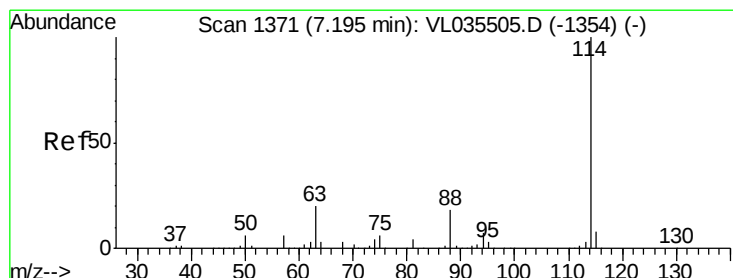
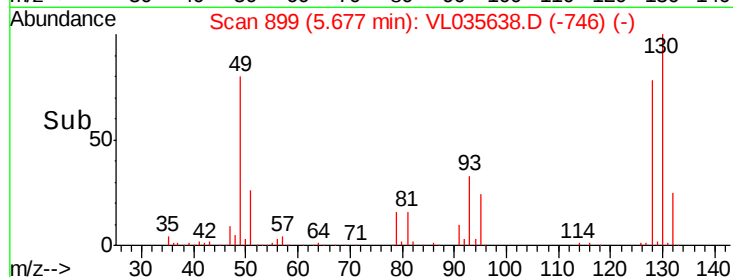
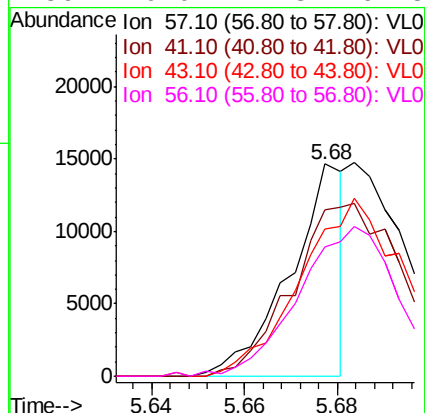
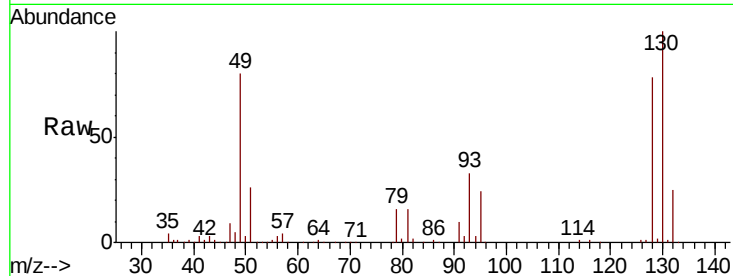




#26
Hexane
Concen: 0.085 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL035638.D
Acq: 16 Sep 2020 21:04

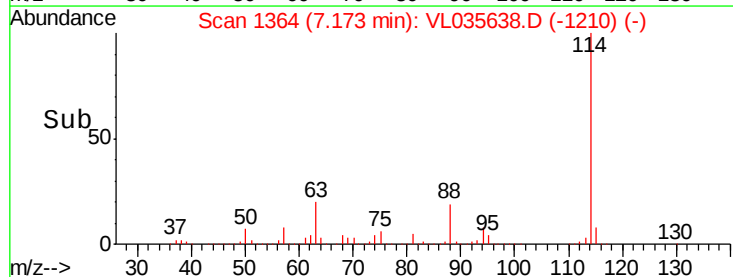
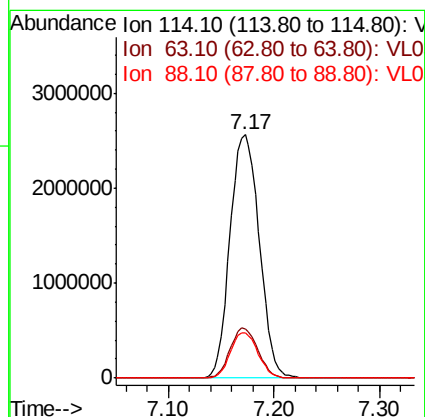
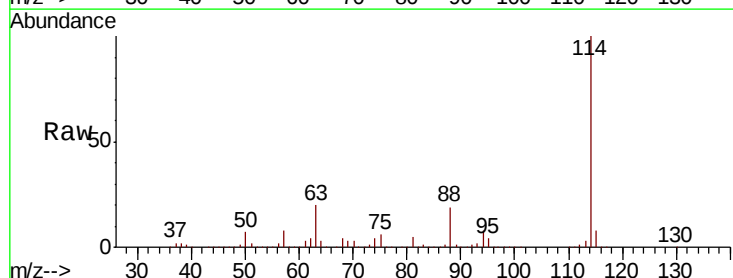
Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y01DL

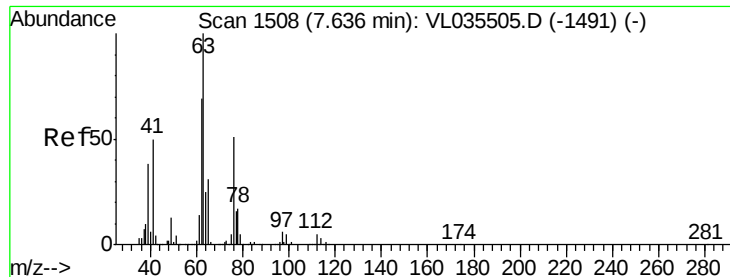
Tot Ion: 57 Resp: 11913
Ion Ratio Lower Upper
57 100
41 0.0 55.9 83.9#
43 0.0 141.8 212.8#
56 0.0 41.8 62.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL035638.D
Acq: 16 Sep 2020 21:04

Tgt Ion: 114 Resp: 4930734
Ion Ratio Lower Upper
114 100
63 19.5 14.7 22.1
88 17.6 13.4 20.2

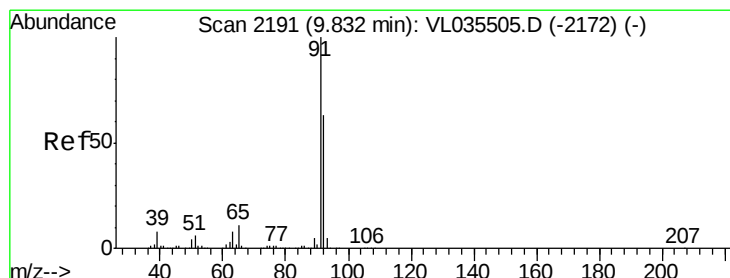
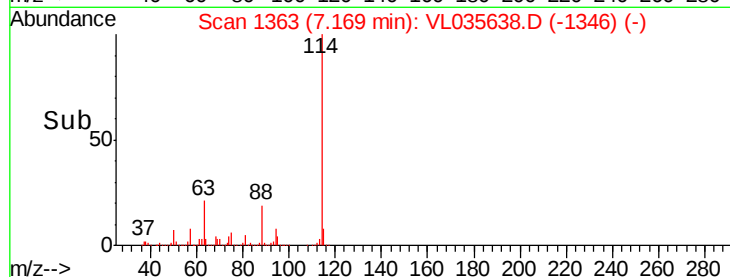
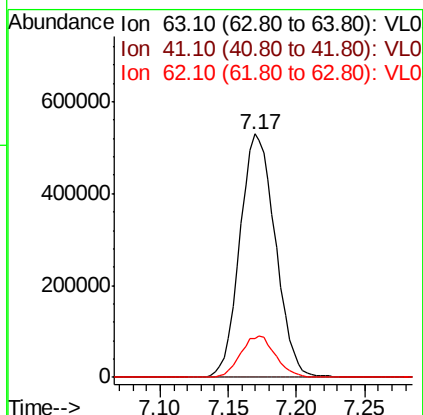
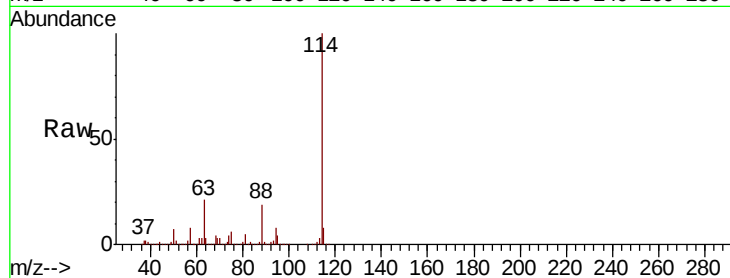




#39
 1,2-Dichloropropane
 Concen: 8.875 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.44 min
 Lab File: VL035638.D
 Acq: 16 Sep 2020 21:04

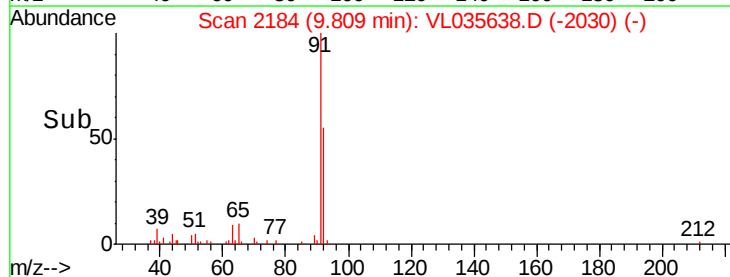
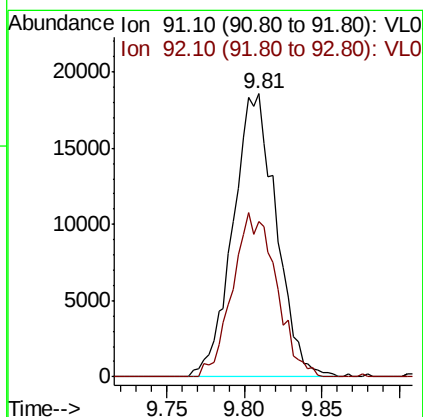
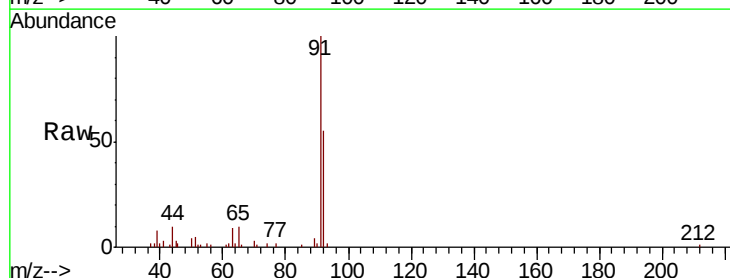
Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y01DL

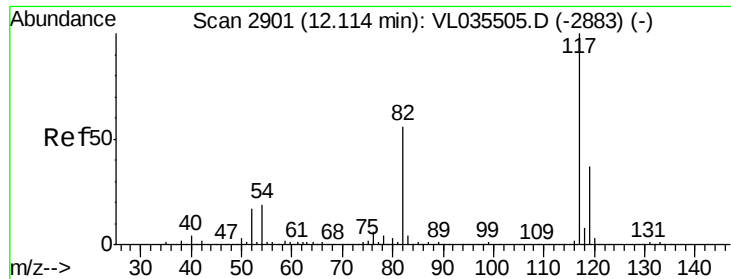
Tot Ion	63	Resp	956852
Ion Ratio	Lower	Upper	
63	100		
41	0.0	40.0	60.0#
62	15.8	55.4	83.0#



#53
 Toluene
 Concen: 0.090 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. -0.00 min
 Lab File: VL035638.D
 Acq: 16 Sep 2020 21:04

Tgt Ion	91	Resp	36124
Ion Ratio	Lower	Upper	
91	100		
92	58.5	49.8	74.8

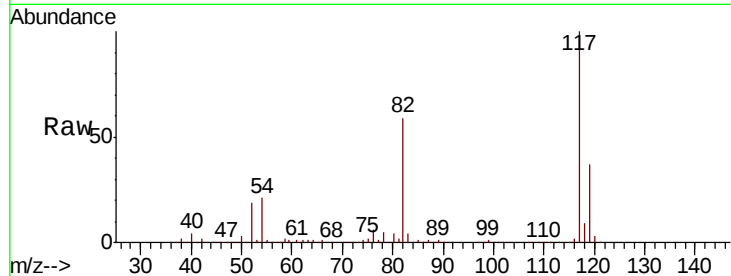




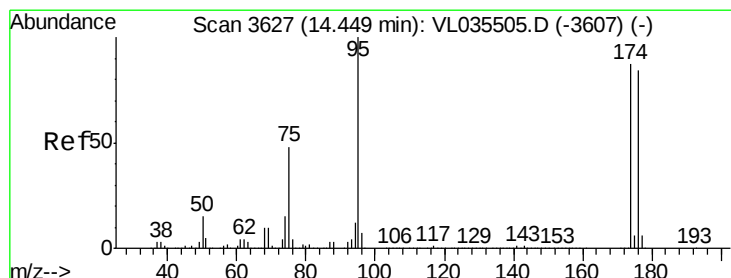
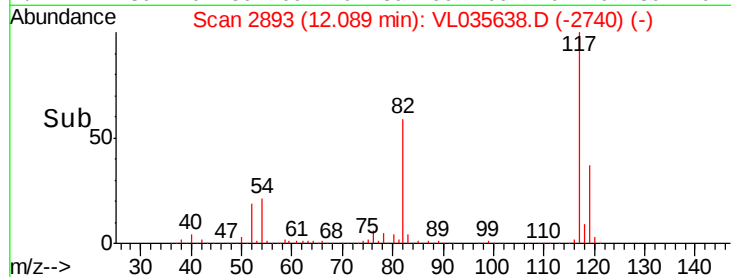
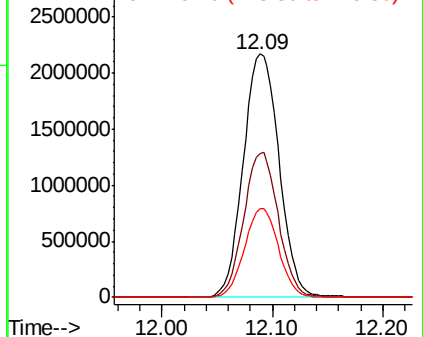
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035638.D
Acq: 16 Sep 2020 21:04

Instrument :
MSVOA_L
ClientSampleID :
DB-IA-Y01DL

Tot Ion:117 Resp: 4881916
Ion Ratio Lower Upper
117 100
82 57.7 41.6 62.4
119 35.0 29.3 43.9

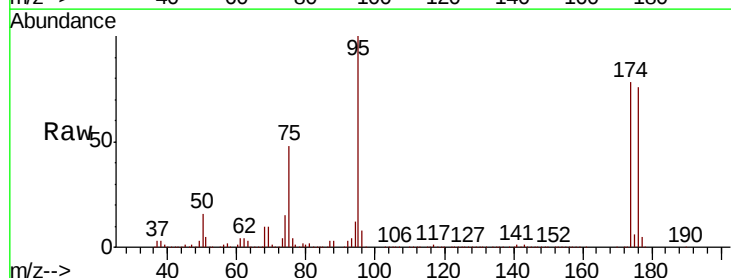


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.352 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL035638.D
Acq: 16 Sep 2020 21:04

Tgt Ion: 95 Resp: 3588948
Ion Ratio Lower Upper
95 100
174 79.9 69.6 104.4
175 5.7 5.1 7.7



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

