

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035640.D
 Acq On : 16 Sep 2020 22:23
 Operator : SY/AP
 Sample : L4036-02DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y02DL

Quant Time: Sep 17 07:09:28 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	1222776	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4758812	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4701054	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3438468	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

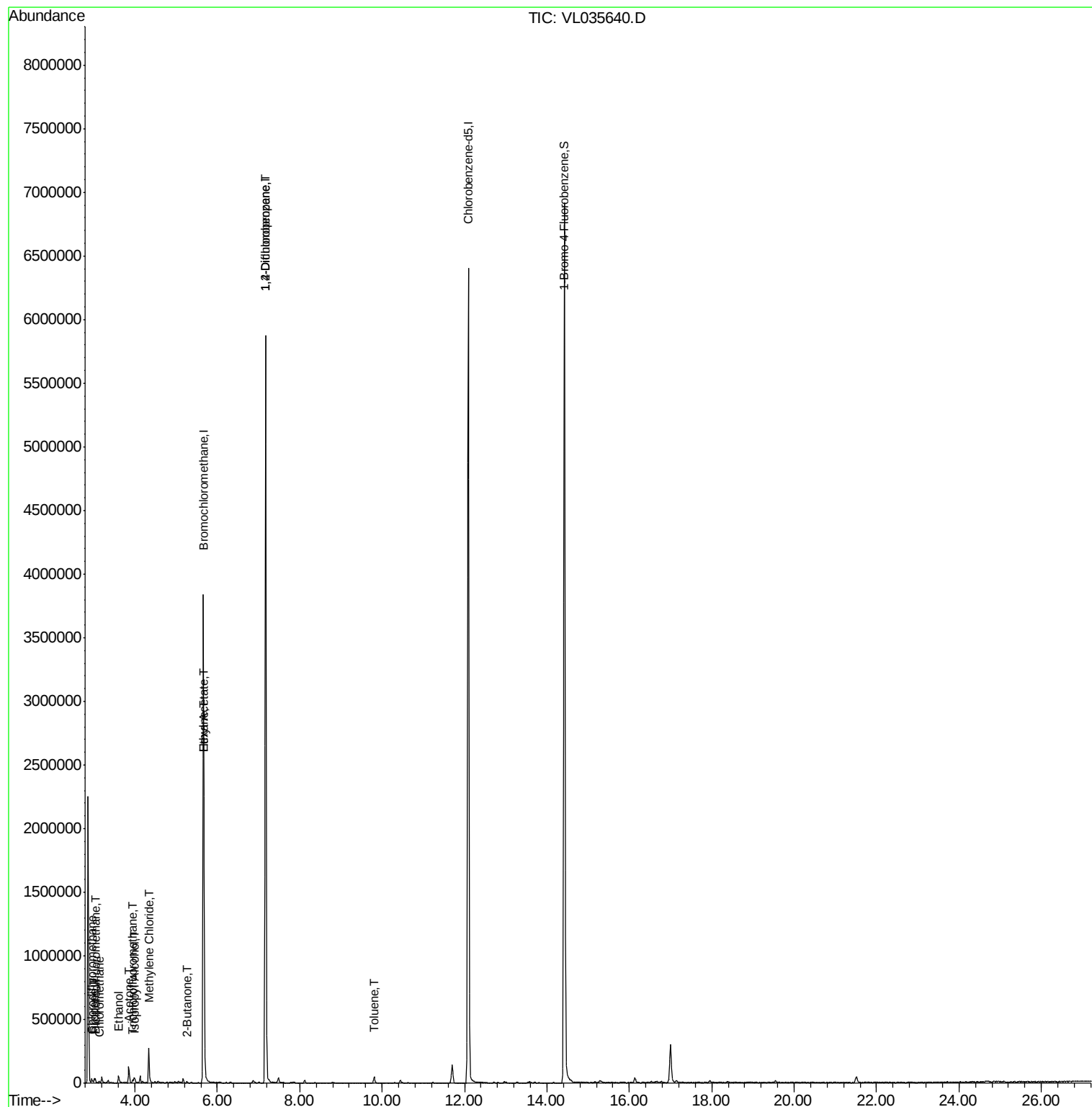
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	20279	0.096	ppbv #	88
3) Chlorodifluoromethane	2.95	51	27733	0.205	ppbv #	69
4) Chloromethane	3.13	50	8288	0.114	ppbv	90
9) Propene	3.02	41	7091	0.136	ppbv	85
11) Trichlorofluoromethane	3.94	101	17567	0.057	ppbv	99
13) Ethanol	3.60	45	21633	1.674	ppbv #	37
15) Acetone	3.85	43	114377	0.848	ppbv	95
19) Isopropyl Alcohol	3.98	45	16392	0.204	ppbv #	64
20) Methylene Chloride	4.34	84	126805	1.262	ppbv	94
25) Ethyl Acetate	5.68	43	53165	0.223	ppbv #	76
26) Hexane	5.68	57	83415	0.618	ppbv #	49
34) 2-Butanone	5.26	43	8326	0.059	ppbv	93
39) 1,2-Dichloropropane	7.17	63	922386	8.864	ppbv #	32
53) Toluene	9.81	91	15807	0.041	ppbv #	1

(#) = 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: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y02DL

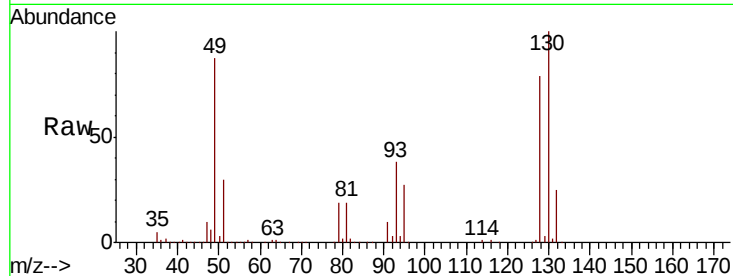
Tot Ion: 49 Resp: 1222776

Ion Ratio Lower Upper

49 100

128 90.5 50.0 150.1

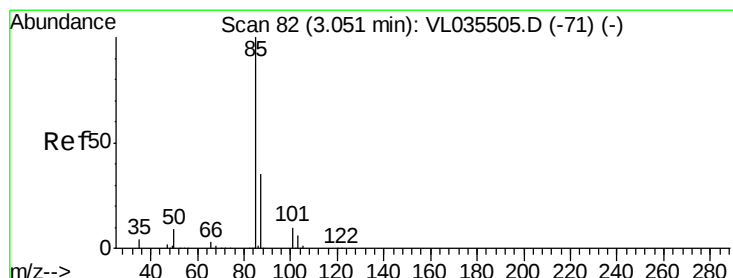
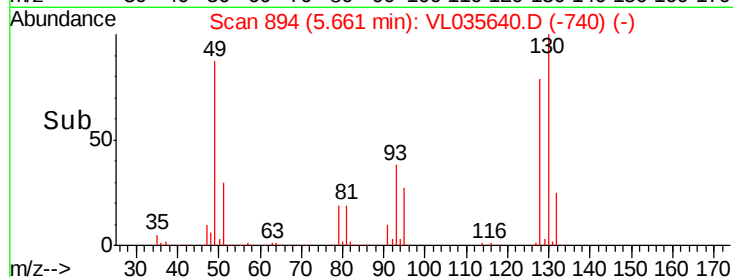
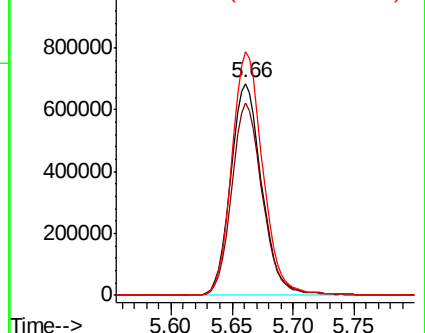
130 115.3 64.4 193.2



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: 0.096 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035640.D

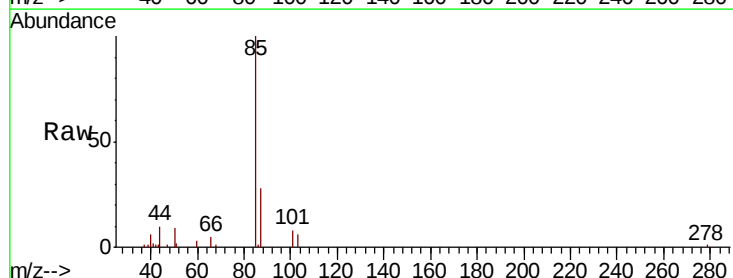
Acq: 16 Sep 2020 22:23

Tgt Ion: 85 Resp: 20279

Ion Ratio Lower Upper

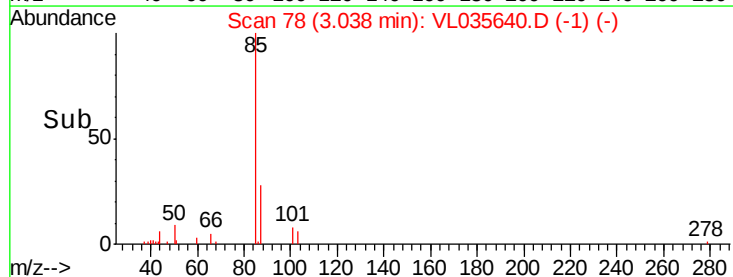
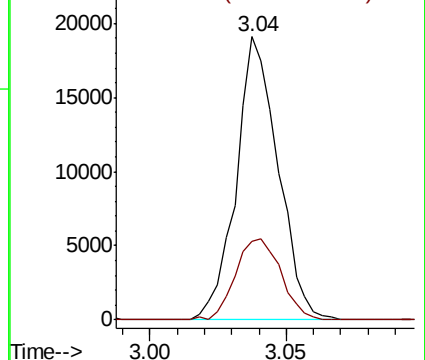
85 100

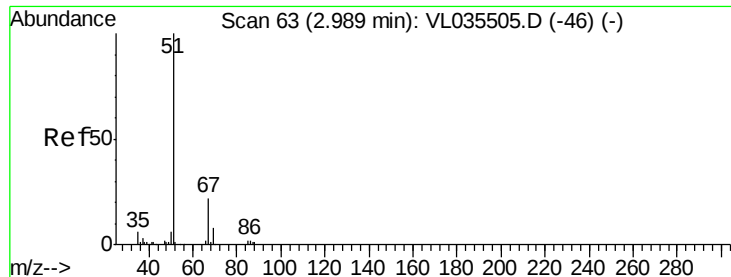
87 27.8 28.0 42.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.205 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.02 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

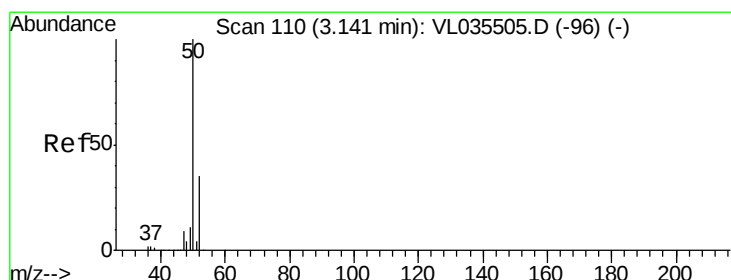
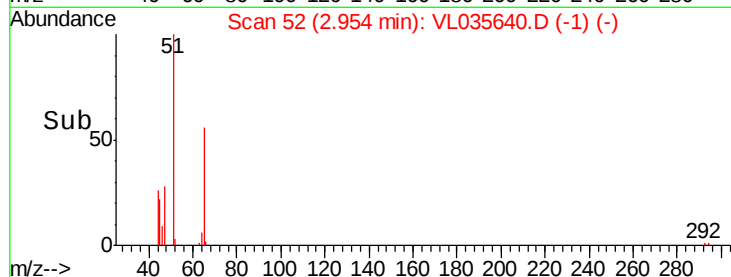
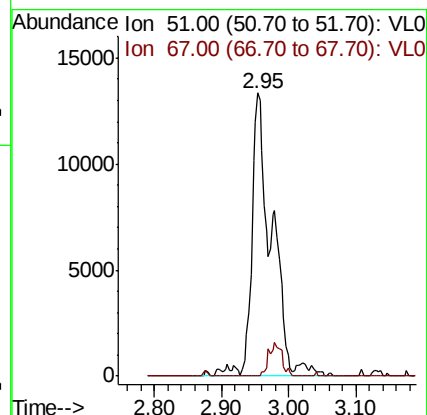
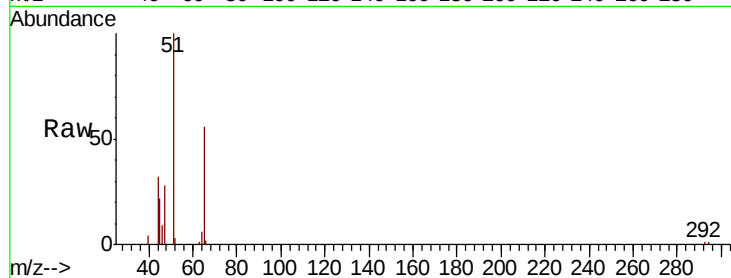
DB-IA-Y02DL

Tot Ion: 51 Resp: 27733

Ion Ratio Lower Upper

51 100

67 7.7 17.8 26.8#



#4

Chloromethane

Concen: 0.114 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL035640.D

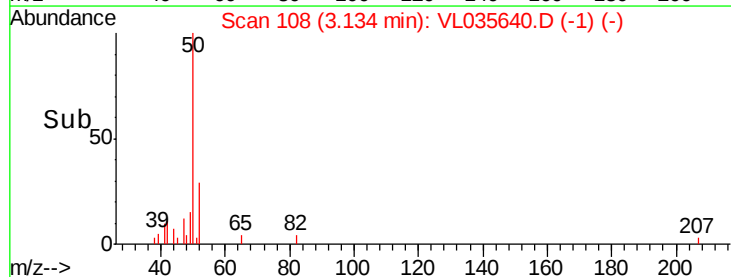
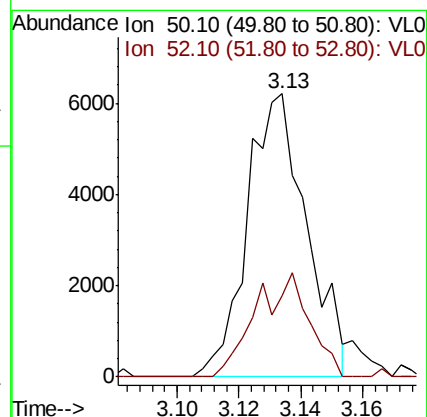
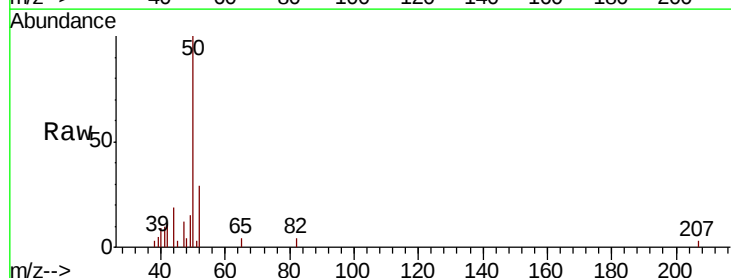
Acq: 16 Sep 2020 22:23

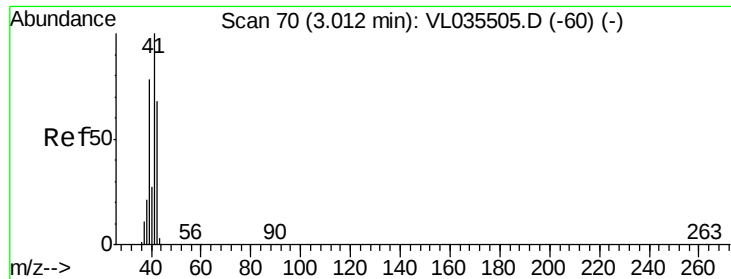
Tgt Ion: 50 Resp: 8288

Ion Ratio Lower Upper

50 100

52 28.9 27.7 41.5





#9

Propene

Concen: 0.136 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleID :

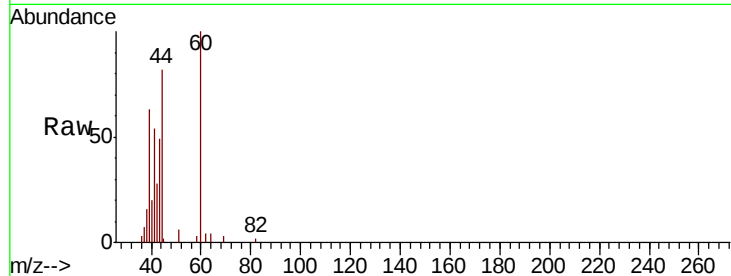
DB-IA-Y02DL

Tot Ion: 41 Resp: 7091

Ion Ratio Lower Upper

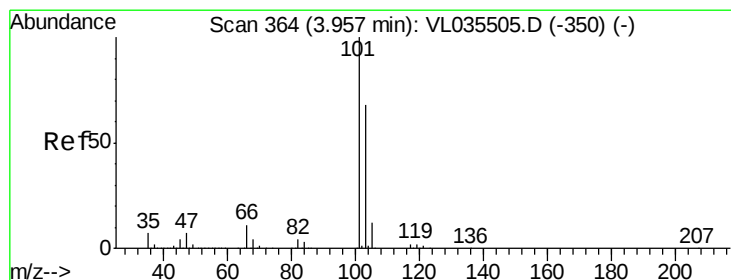
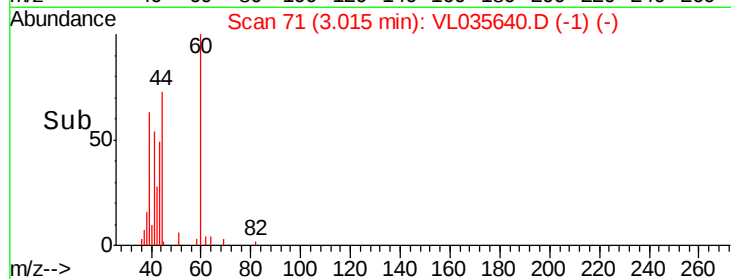
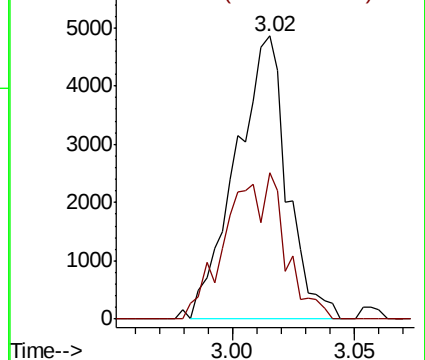
41 100

42 58.3 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.057 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL035640.D

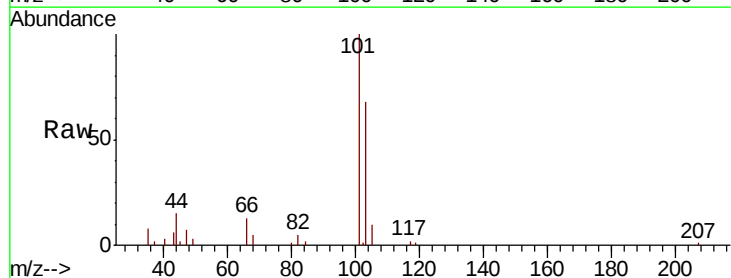
Acq: 16 Sep 2020 22:23

Tgt Ion: 101 Resp: 17567

Ion Ratio Lower Upper

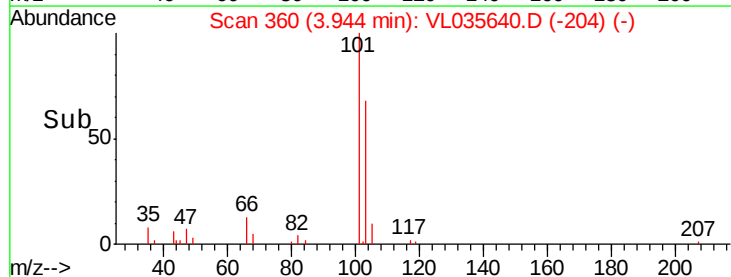
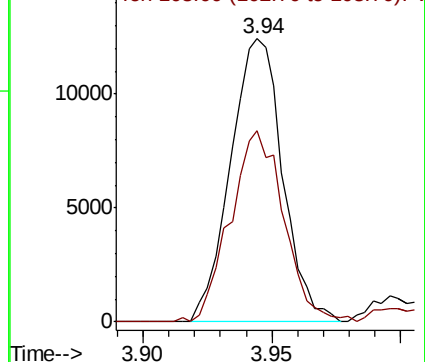
101 100

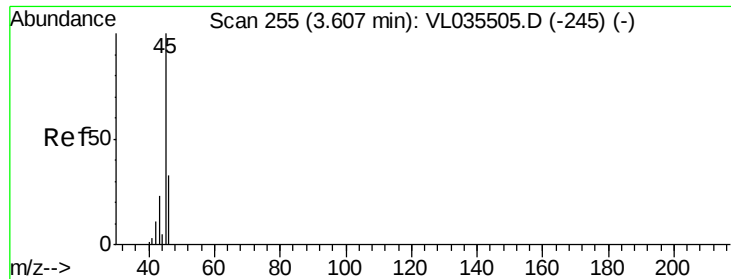
103 67.5 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 1.674 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

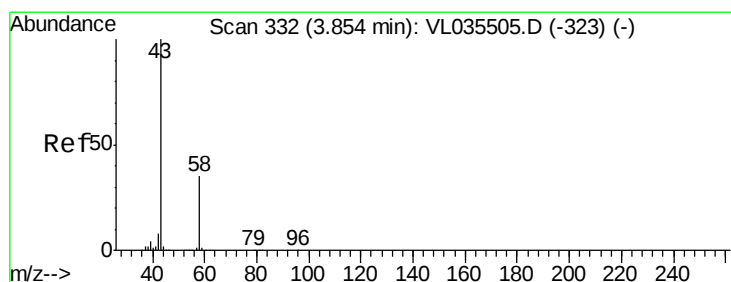
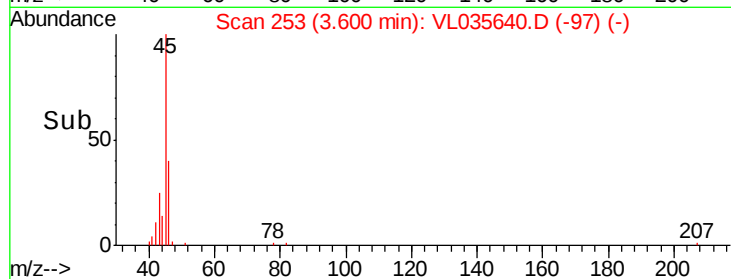
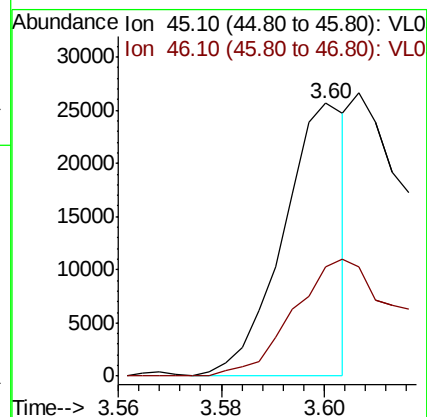
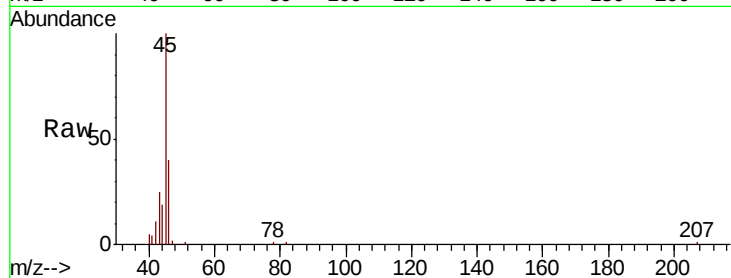
DB-IA-Y02DL

Tot Ion: 45 Resp: 21633

Ion Ratio Lower Upper

45 100

46 0.0 15.2 60.6#



#15

Acetone

Concen: 0.848 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL035640.D

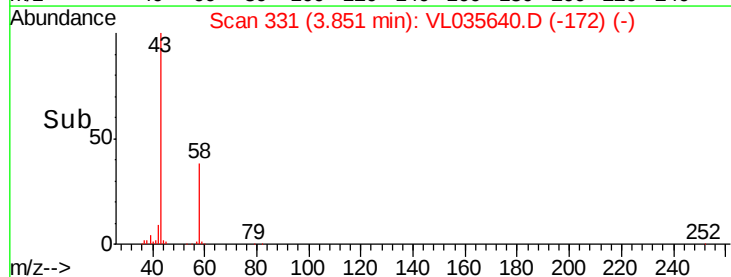
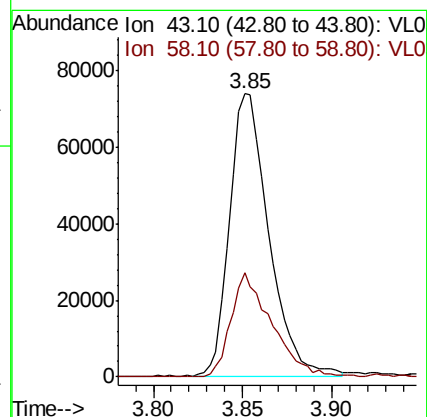
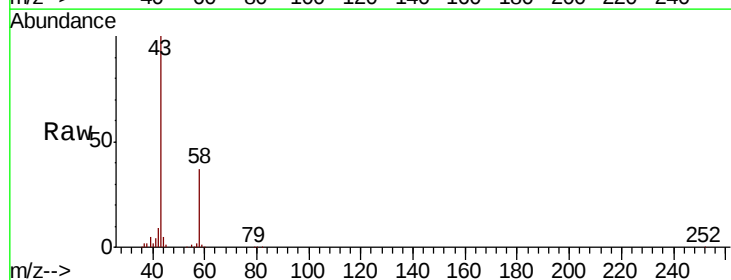
Acq: 16 Sep 2020 22:23

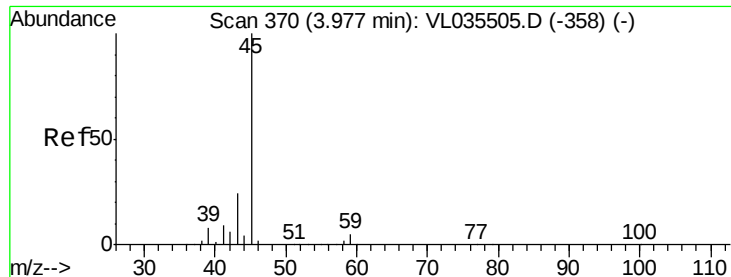
Tgt Ion: 43 Resp: 114377

Ion Ratio Lower Upper

43 100

58 38.3 28.4 42.6





#19

Isopropyl Alcohol

Concen: 0.204 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

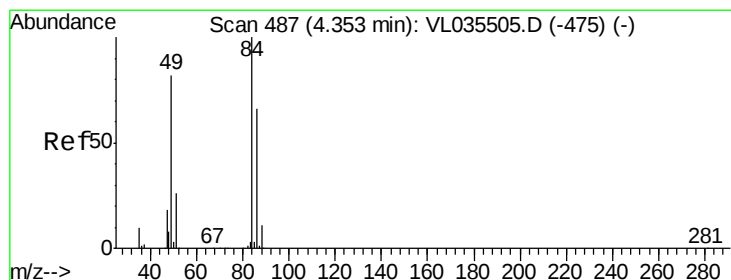
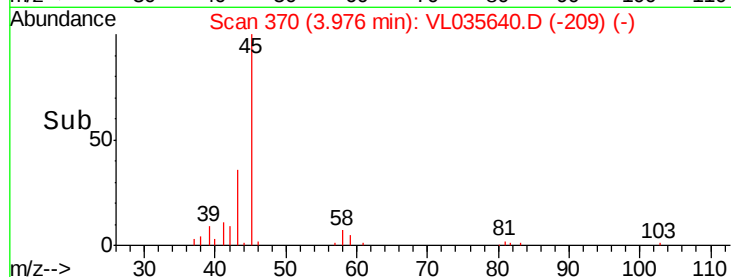
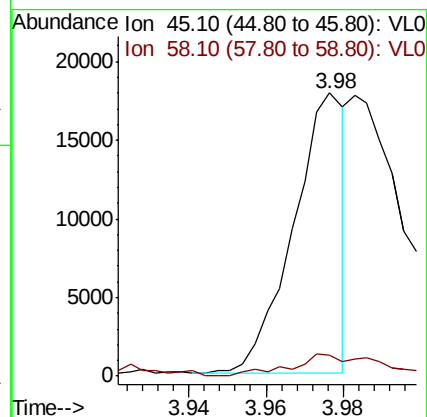
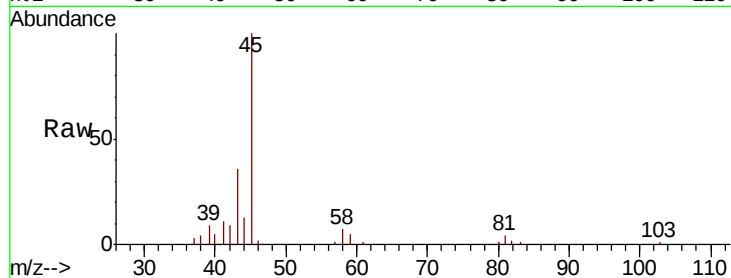
DB-IA-Y02DL

Tot Ion: 45 Resp: 16392

Ion Ratio Lower Upper

45 100

58 14.8 2.0 3.0#



#20

Methylene Chloride

Concen: 1.262 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Tgt Ion: 84 Resp: 126805

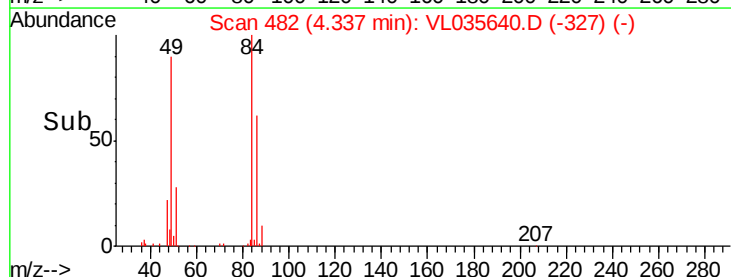
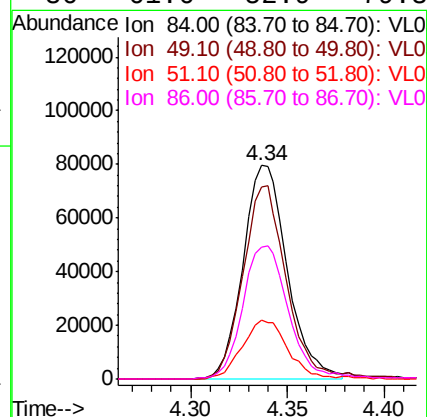
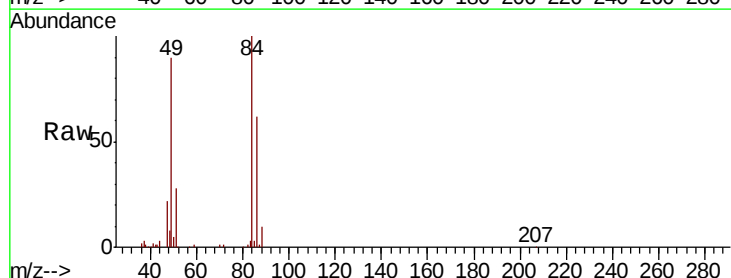
Ion Ratio Lower Upper

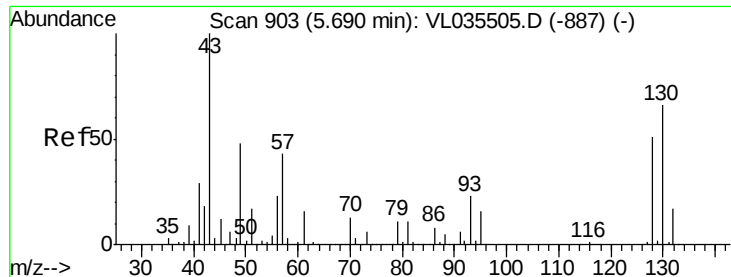
84 100

49 89.6 65.4 98.0

51 27.5 21.5 32.3

86 61.6 52.9 79.3





#25

Ethyl Acetate

Concen: 0.223 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleID :

DB-IA-Y02DL

Tot Ion: 43 Resp: 53165

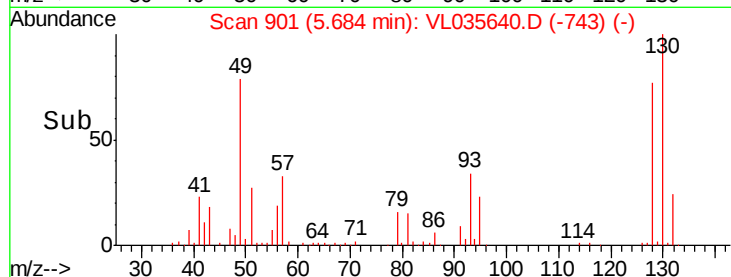
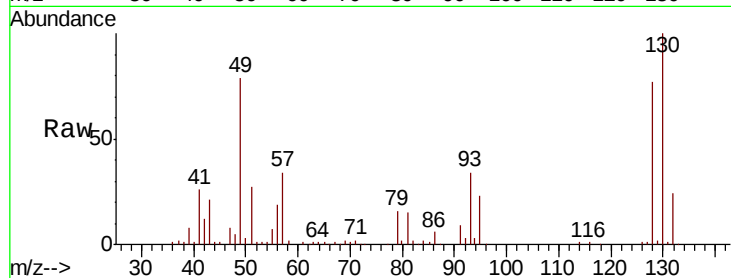
Ion Ratio Lower Upper

43 100

45 2.8 8.4 12.6#

61 2.0 10.6 16.0#

70 3.5 9.4 14.2#



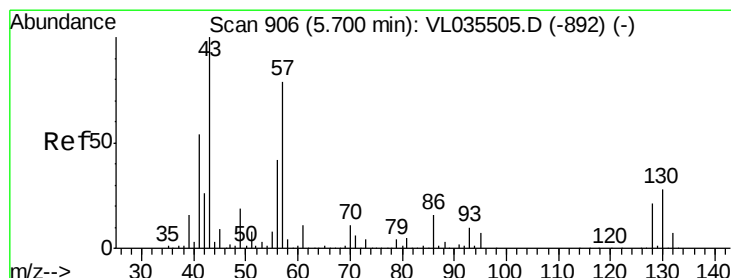
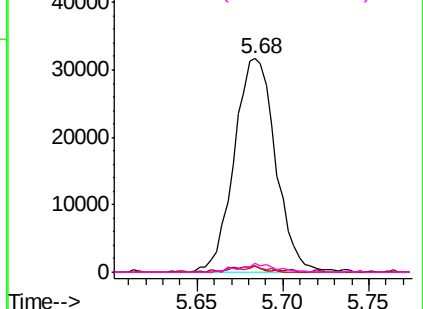
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.618 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Tgt Ion: 57 Resp: 83415

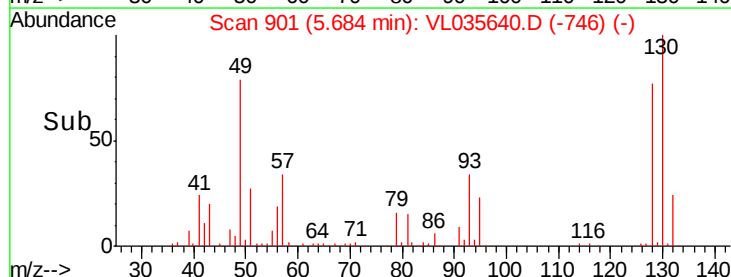
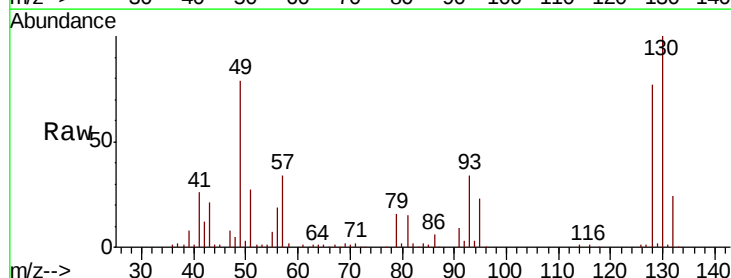
Ion Ratio Lower Upper

57 100

41 76.0 55.9 83.9

43 63.9 141.8 212.8#

56 59.0 41.8 62.8



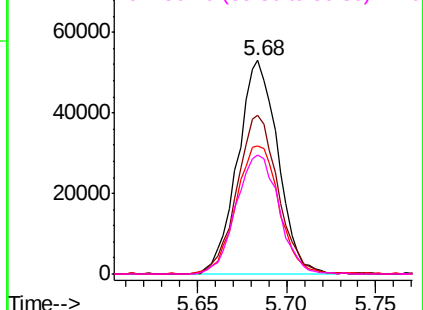
Abundance

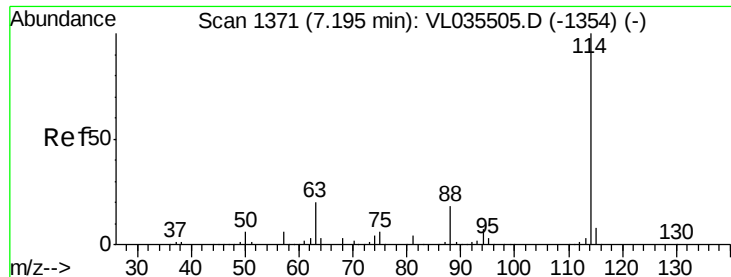
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

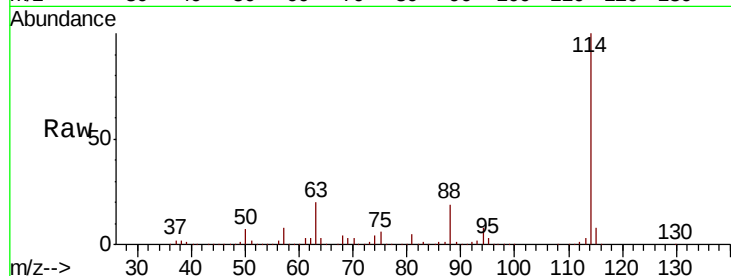




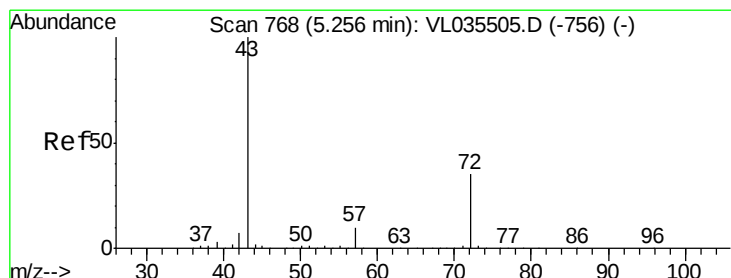
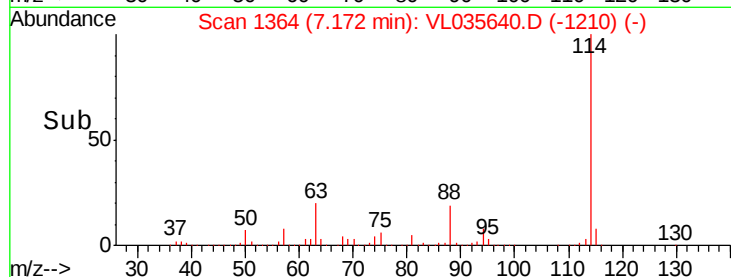
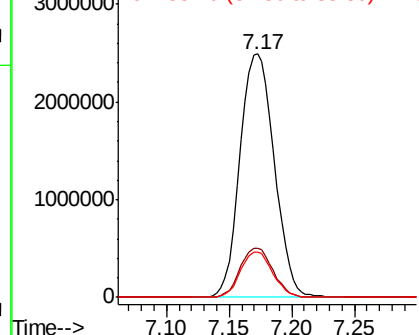
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL035640.D
 Acq: 16 Sep 2020 22:23

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y02DL

Tot Ion:114 Resp: 4758812
 Ion Ratio Lower Upper
 114 100
 63 19.5 14.7 22.1
 88 17.6 13.4 20.2

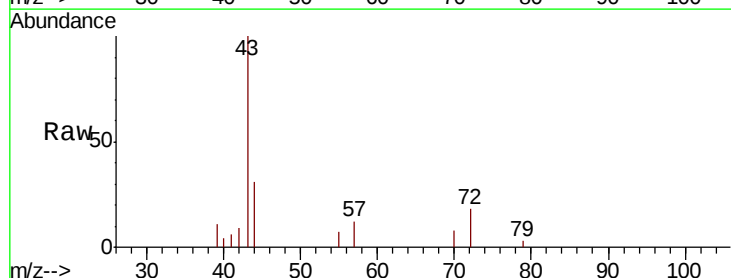


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

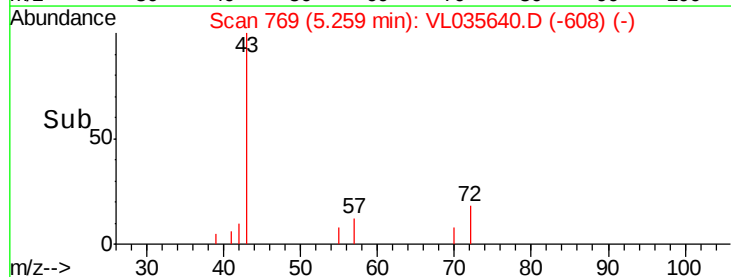
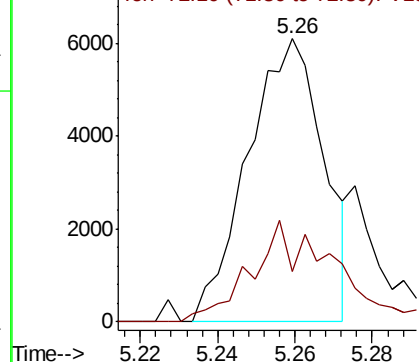


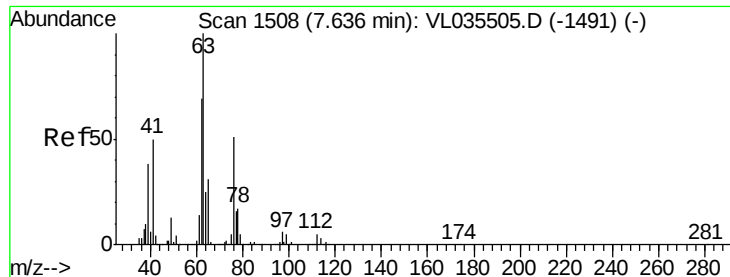
#34
 2-Butanone
 Concen: 0.059 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.02 min
 Lab File: VL035640.D
 Acq: 16 Sep 2020 22:23

Tgt Ion: 43 Resp: 8326
 Ion Ratio Lower Upper
 43 100
 72 38.8 27.7 41.5



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





#39

1,2-Dichloropropane

Concen: 8.864 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL035640.D

Acq: 16 Sep 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y02DL

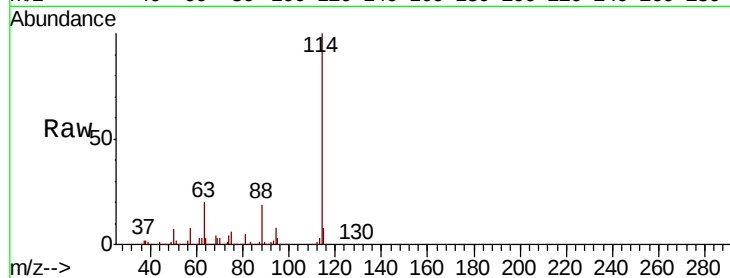
Tot Ion: 63 Resp: 922386

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

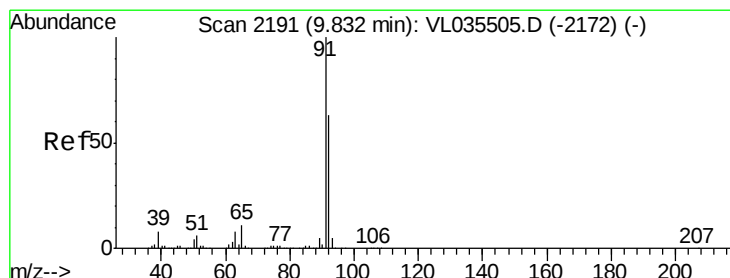
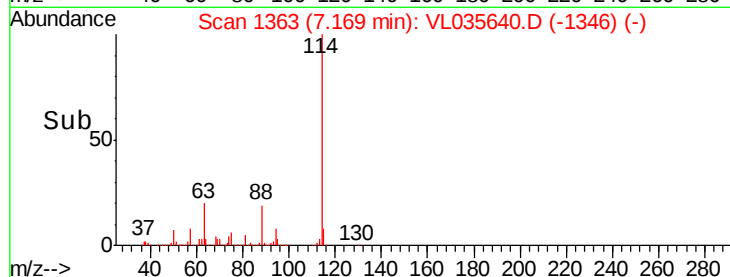
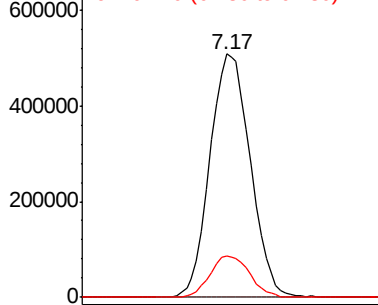
62 16.8 55.4 83.0#



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



#53

Toluene

Concen: 0.041 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL035640.D

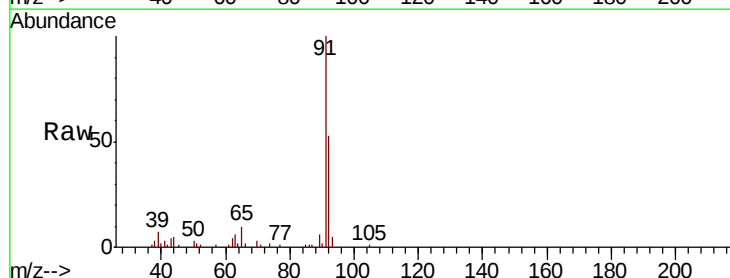
Acq: 16 Sep 2020 22:23

Tgt Ion: 91 Resp: 15807

Ion Ratio Lower Upper

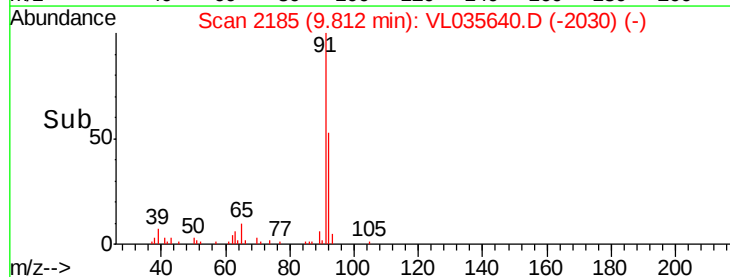
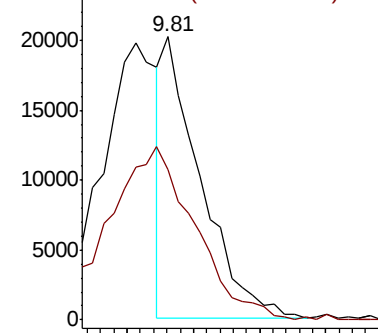
91 100

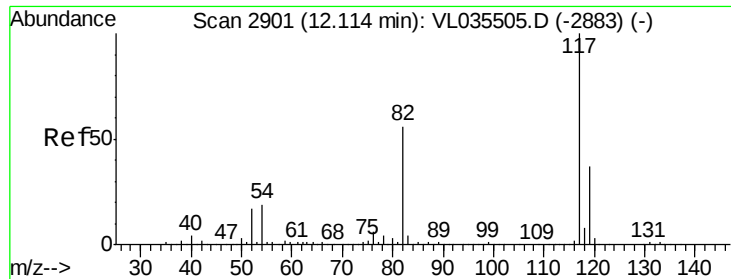
92 145.9 49.8 74.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

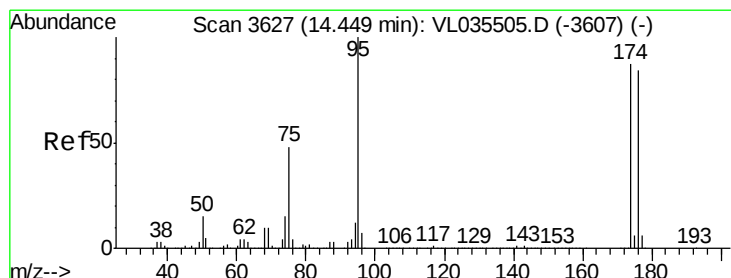
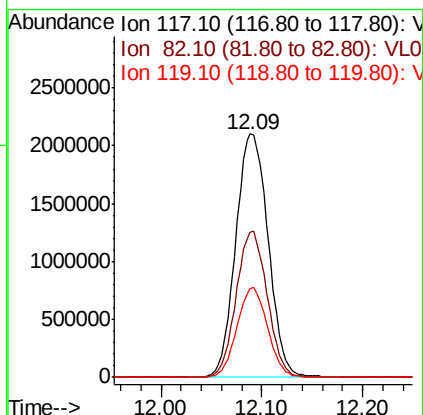
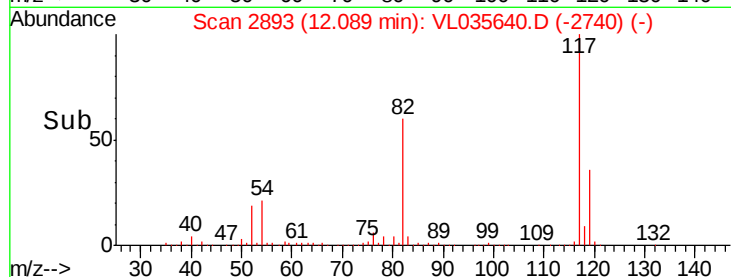
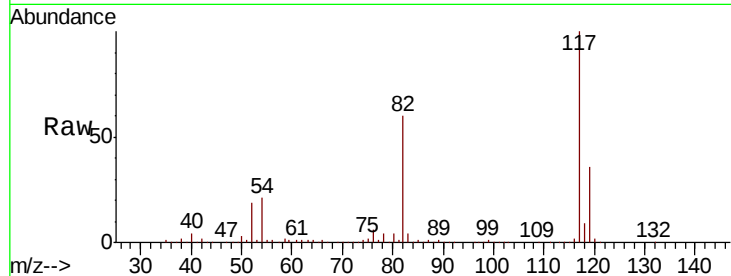




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035640.D
Acq: 16 Sep 2020 22:23

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02DL

Tot Ion:117 Resp: 4701054
Ion Ratio Lower Upper
117 100
82 57.7 41.6 62.4
119 35.0 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.300 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL035640.D
Acq: 16 Sep 2020 22:23

Tgt Ion: 95 Resp: 3438468
Ion Ratio Lower Upper
95 100
174 79.5 69.6 104.4
175 5.8 5.1 7.7

