

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121020\
 Data File : VL036158.D
 Acq On : 11 Dec 2020 10:39
 Operator : SY/AP
 Sample : L4930-02DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Dec 11 13:43:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1202121	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.16	114	2424273	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2176407	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1929357	11.16	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.60%

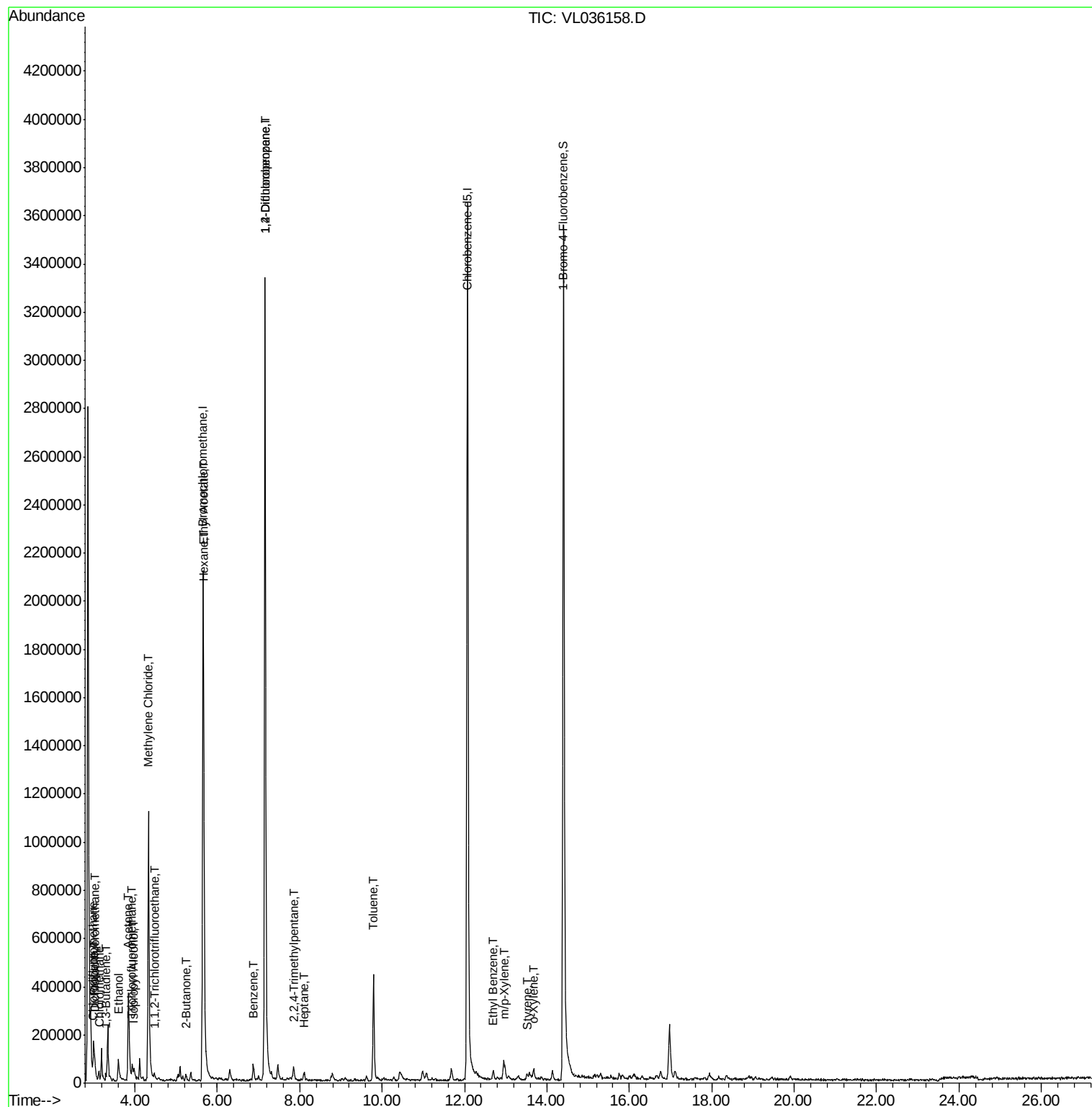
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	13568	0.097	ppbv	96
3) Chlorodifluoromethane	2.97	51	63374	0.462	ppbv #	92
4) Chloromethane	3.13	50	34270	0.509	ppbv	92
9) Propene	3.00	41	48357	0.704	ppbv	87
10) Heptane	8.10	43	7397	0.042	ppbv #	29
11) Trichlorofluoromethane	3.93	101	41660	0.253	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4871	0.044	ppbv #	58
13) Ethanol	3.60	45	98089	10.356	ppbv	93
15) Acetone	3.84	43	507910	3.516	ppbv	92
16) 1,3-Butadiene	3.30	39	2881	0.040	ppbv #	1
19) Isopropyl Alcohol	3.97	45	26976	0.305	ppbv #	100
20) Methylene Chloride	4.33	84	446252	7.537	ppbv	99
25) Ethyl Acetate	5.67	43	247938	0.859	ppbv #	81
26) Hexane	5.67	57	302594	2.329	ppbv #	41
34) 2-Butanone	5.23	43	35157	0.219	ppbv	94
36) Benzene	6.87	78	53697	0.261	ppbv #	88
39) 1,2-Dichloropropane	7.16	63	792867	9.772	ppbv #	24
44) 2,2,4-Trimethylpentane	7.85	57	19835	0.053	ppbv #	24
53) Toluene	9.79	91	193455	0.839	ppbv #	45
58) Ethyl Benzene	12.70	91	15766	0.053	ppbv	92
59) m/p-Xylene	12.98	91	10193	0.041	ppbv #	34
60) o-Xylene	13.67	91	7873	0.033	ppbv #	33
61) Styrene	13.51	104	5055	0.033	ppbv #	1

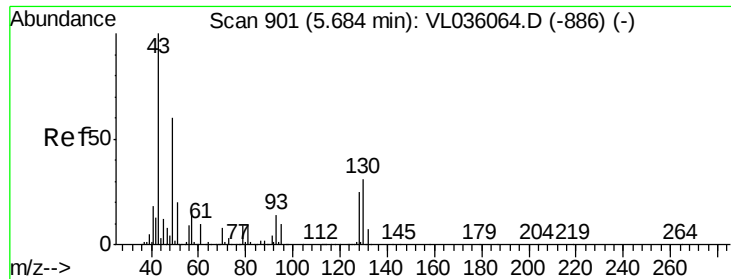
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.04 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

VSTDCCC050

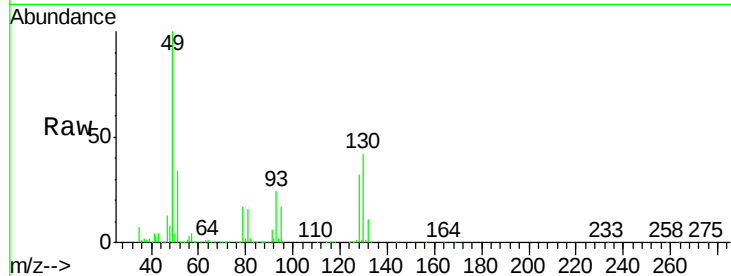
Tgt Ion: 49 Resp: 1202121

Ion Ratio Lower Upper

49 100

128 36.2 21.1 63.1

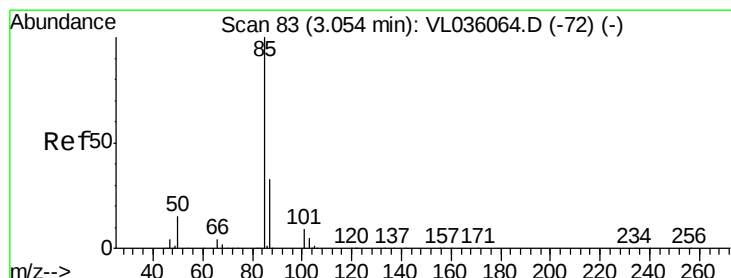
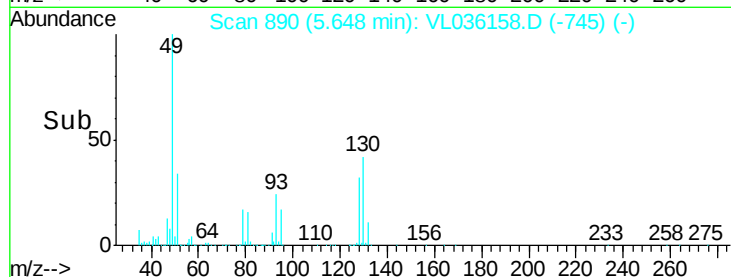
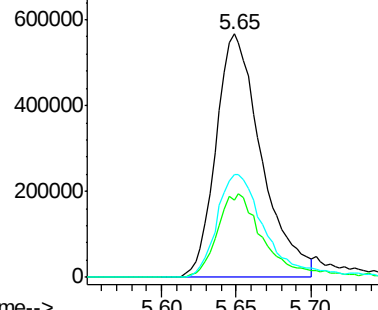
130 46.2 27.1 81.3



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



#2

Dichlorodifluoromethane

Concen: 0.097 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL036158.D

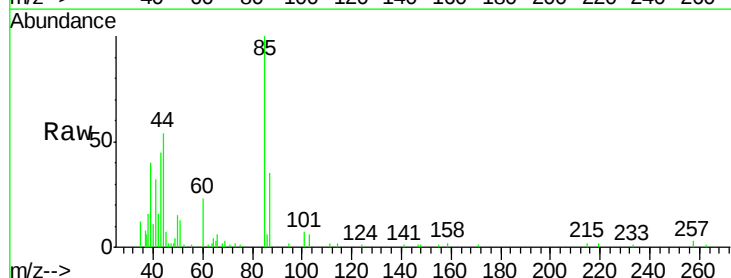
Acq: 11 Dec 2020 10:39

Tgt Ion: 85 Resp: 13568

Ion Ratio Lower Upper

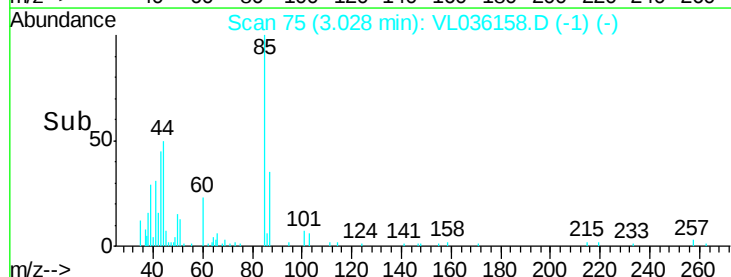
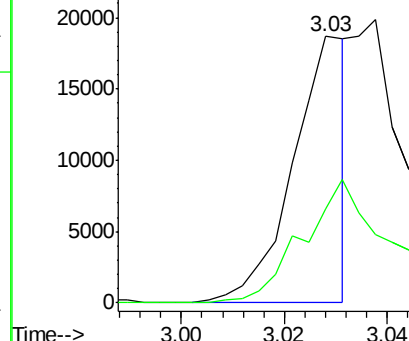
85 100

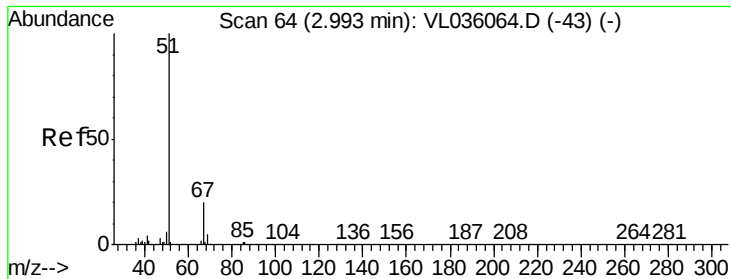
87 35.2 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.462 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

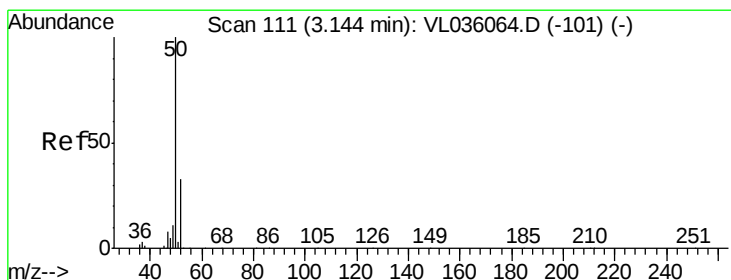
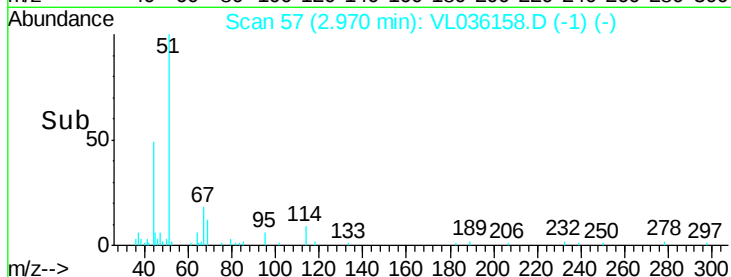
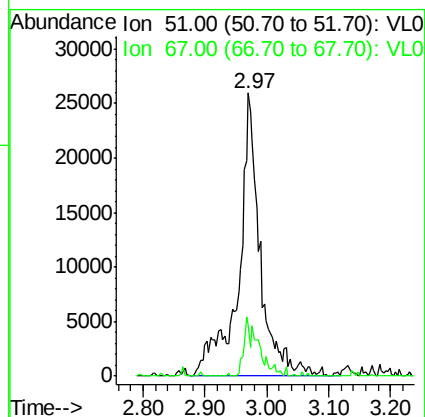
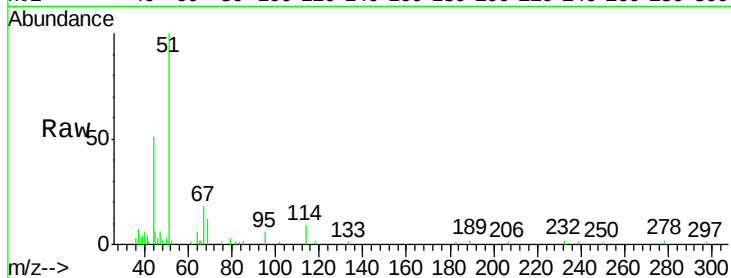
VSTDCCC050

Tgt Ion: 51 Resp: 63374

Ion Ratio Lower Upper

51 100

67 14.2 14.3 21.5#



#4

Chloromethane

Concen: 0.509 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL036158.D

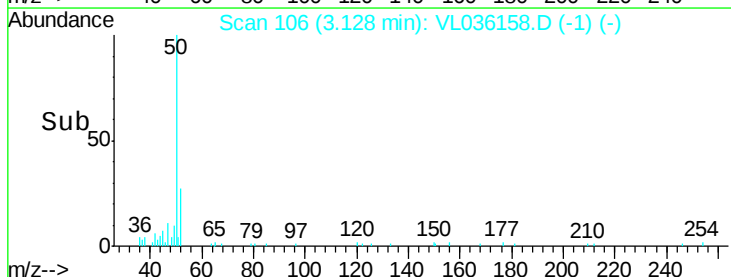
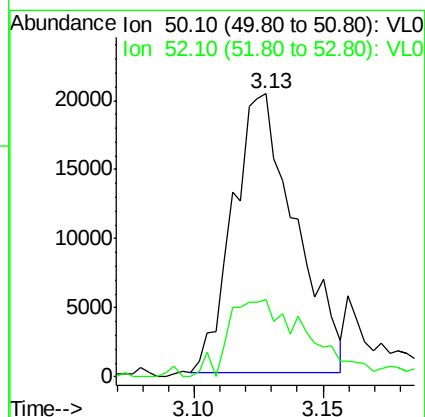
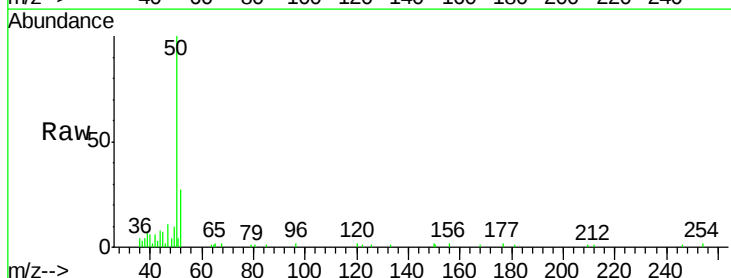
Acq: 11 Dec 2020 10:39

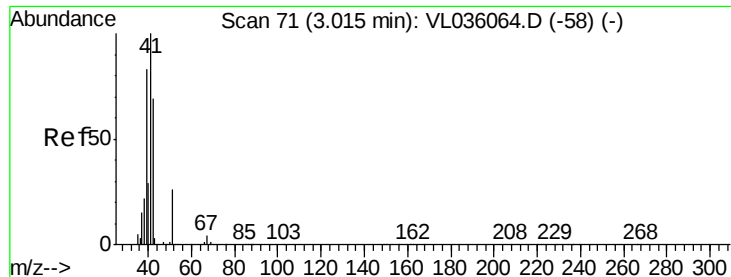
Tgt Ion: 50 Resp: 34270

Ion Ratio Lower Upper

50 100

52 27.8 26.1 39.1





#9

Propene

Concen: 0.704 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

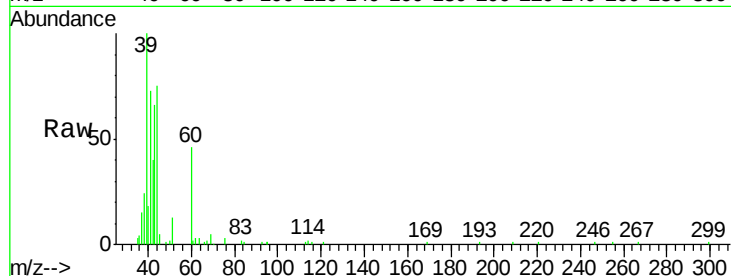
VSTDCCC050

Tgt Ion: 41 Resp: 48357

Ion Ratio Lower Upper

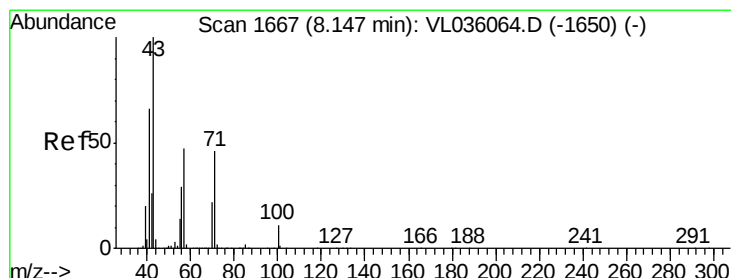
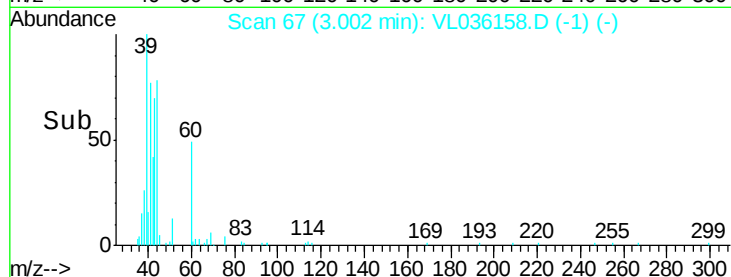
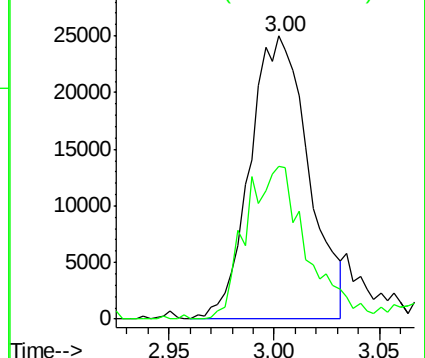
41 100

42 60.4 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.042 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.04 min

Lab File: VL036158.D

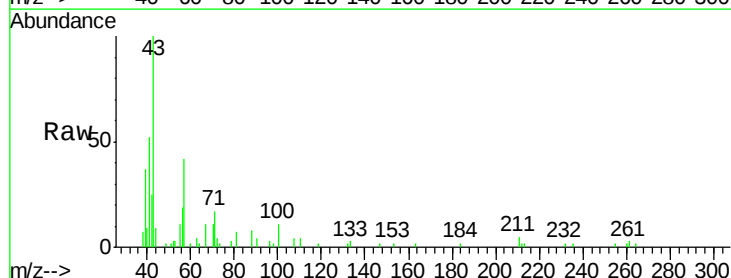
Acq: 11 Dec 2020 10:39

Tgt Ion: 43 Resp: 7397

Ion Ratio Lower Upper

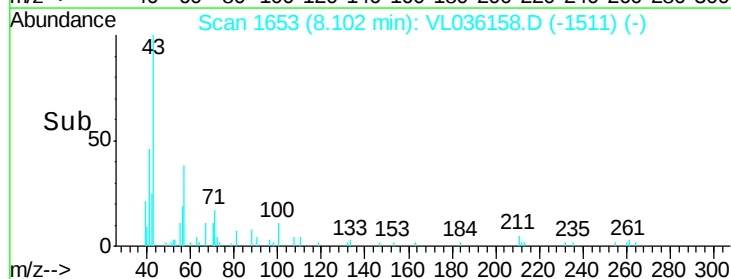
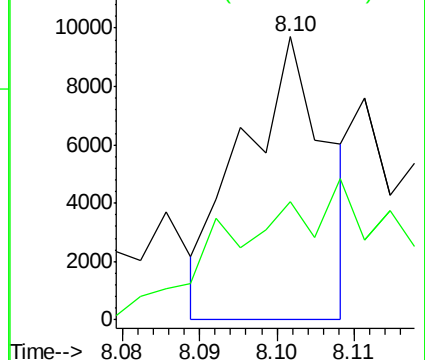
43 100

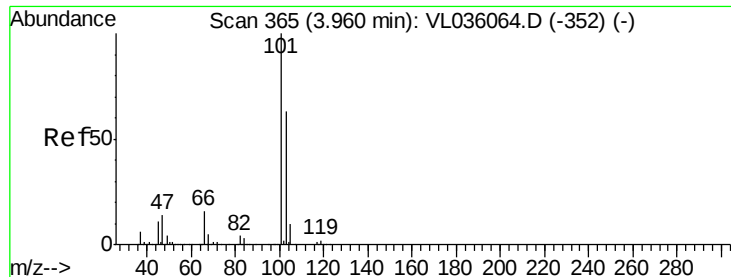
57 0.0 37.9 56.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.253 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.03 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

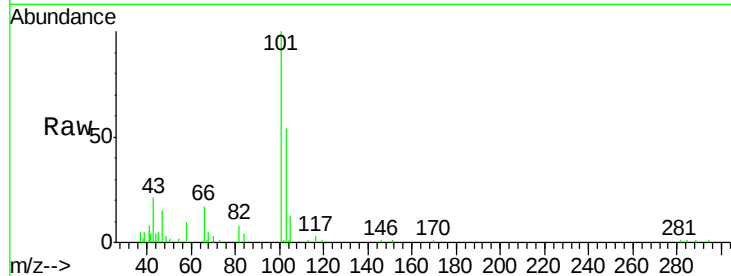
VSTDCCC050

Tgt Ion:101 Resp: 41660

Ion Ratio Lower Upper

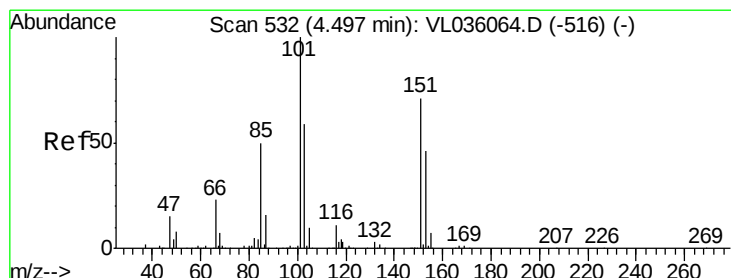
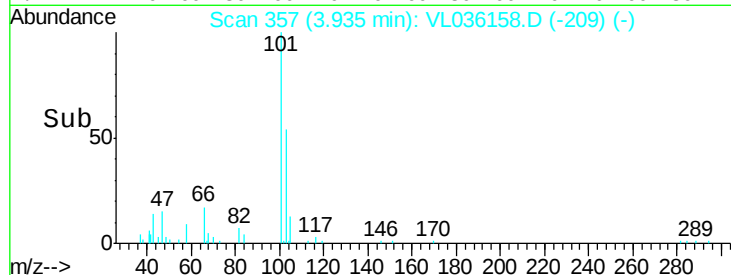
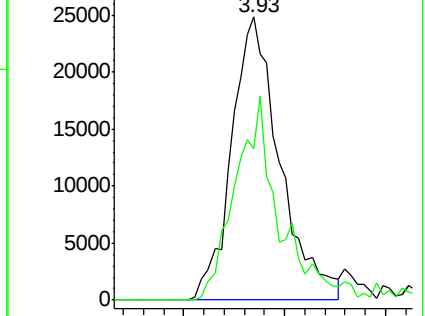
101 100

103 53.5 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.044 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.03 min

Lab File: VL036158.D

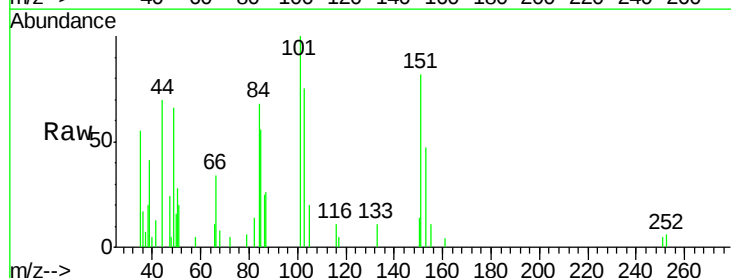
Acq: 11 Dec 2020 10:39

Tgt Ion:101 Resp: 4871

Ion Ratio Lower Upper

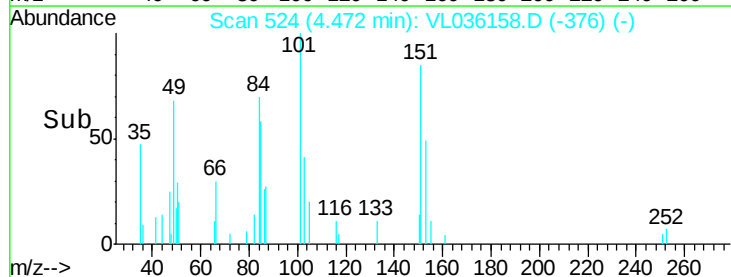
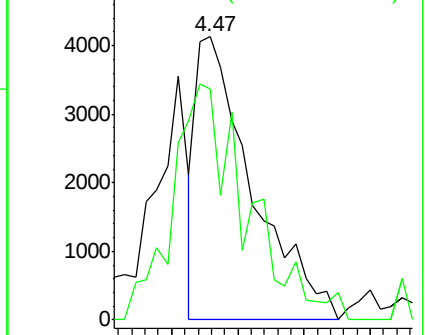
101 100

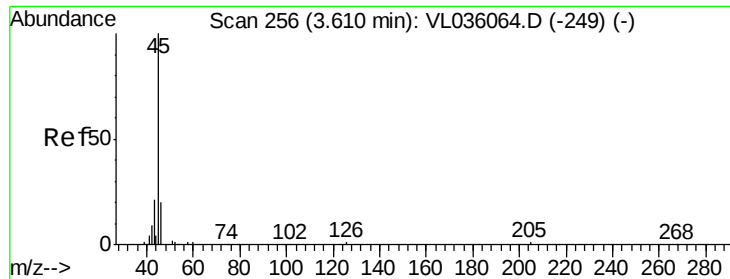
151 109.9 59.3 88.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.356 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

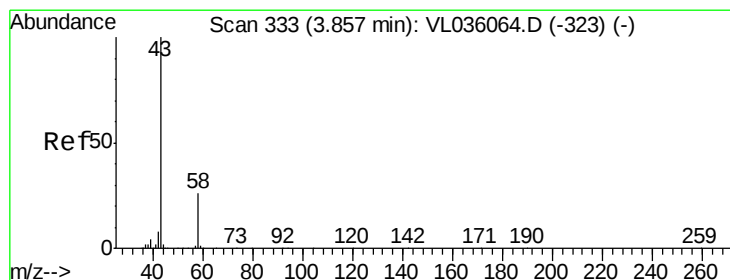
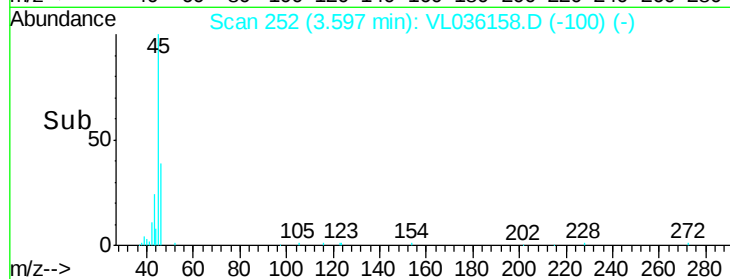
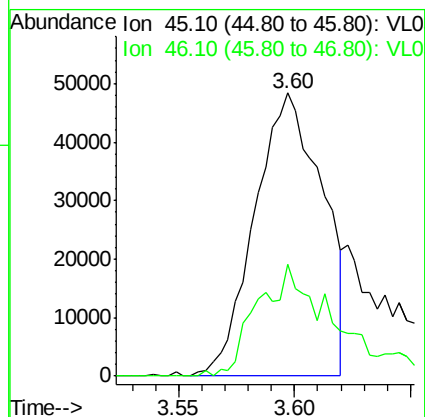
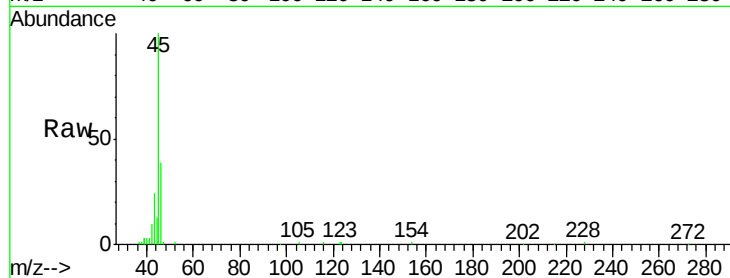
VSTDCCC050

Tgt Ion: 45 Resp: 98089

Ion Ratio Lower Upper

45 100

46 52.0 19.0 75.8



#15

Acetone

Concen: 3.516 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036158.D

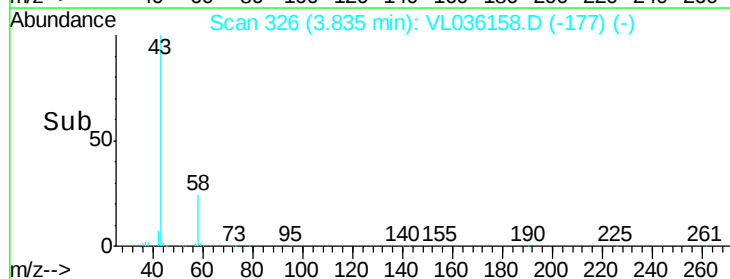
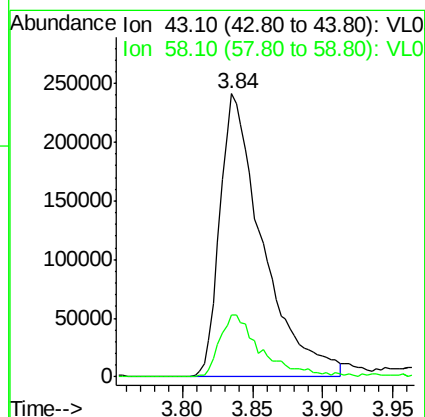
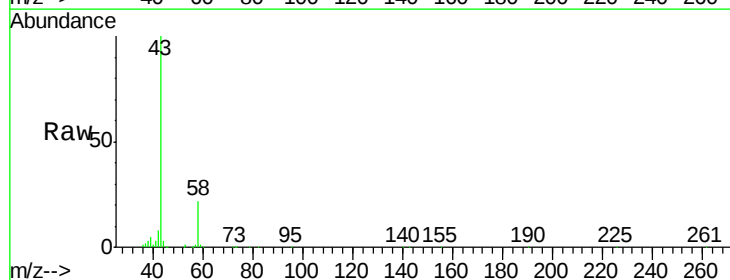
Acq: 11 Dec 2020 10:39

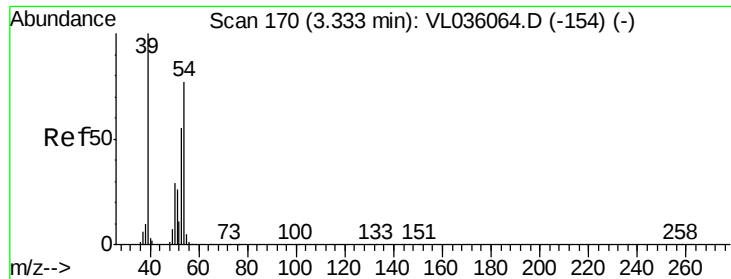
Tgt Ion: 43 Resp: 507910

Ion Ratio Lower Upper

43 100

58 21.8 20.9 31.3

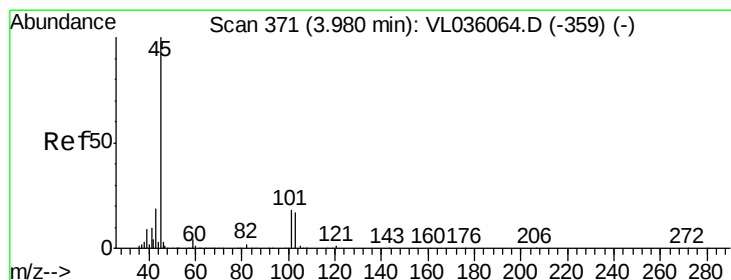
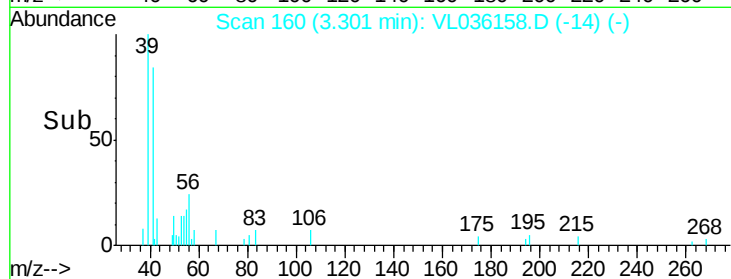
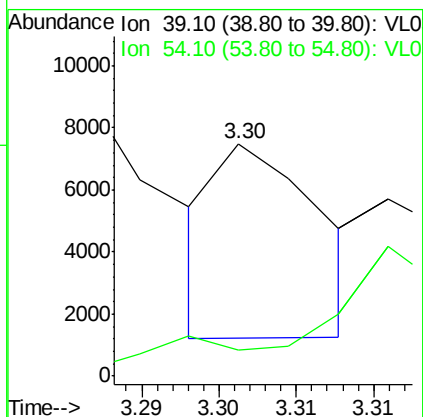
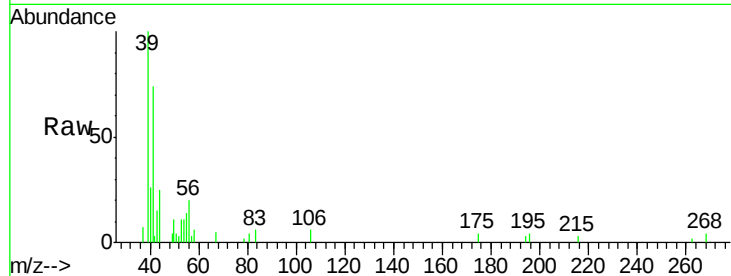




#16
 1,3-Butadiene
 Concen: 0.040 ppbv
 RT: 3.30 min Scan# 160
 Delta R.T. -0.03 min
 Lab File: VL036158.D
 Acq: 11 Dec 2020 10:39

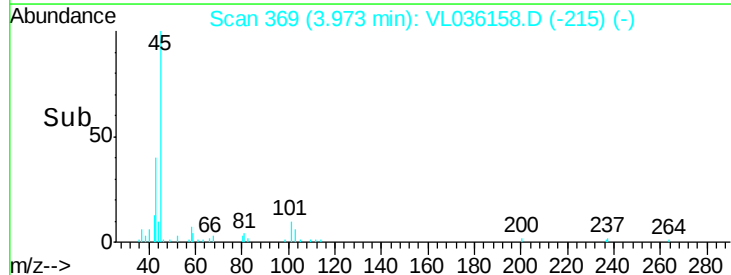
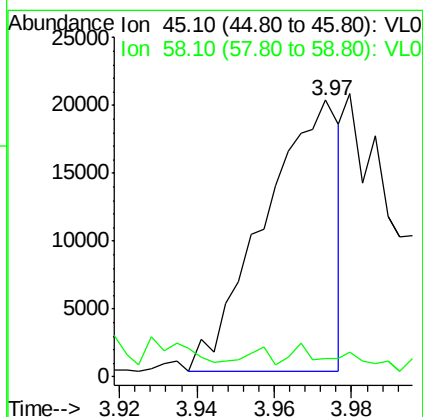
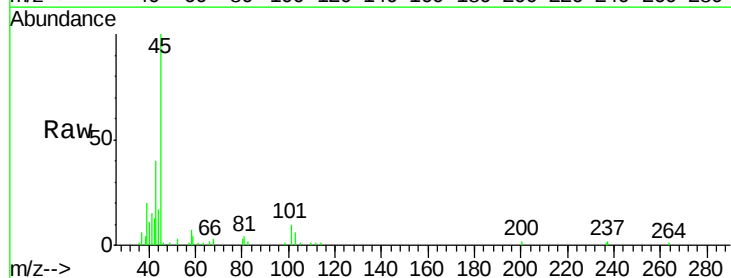
Instrument :
 MSVOA_X
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 VSTDCCC050

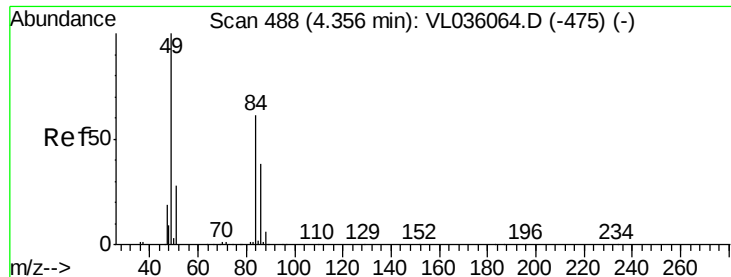
Tgt Ion: 39 Resp: 2881
 Ion Ratio Lower Upper
 39 100
 54 203.4 62.1 93.1#



#19
 Isopropyl Alcohol
 Concen: 0.305 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. -0.01 min
 Lab File: VL036158.D
 Acq: 11 Dec 2020 10:39

Tgt Ion: 45 Resp: 26976
 Ion Ratio Lower Upper
 45 100
 58 0.0 0.0 0.0

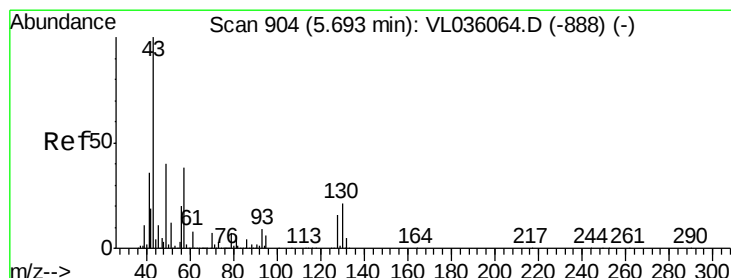
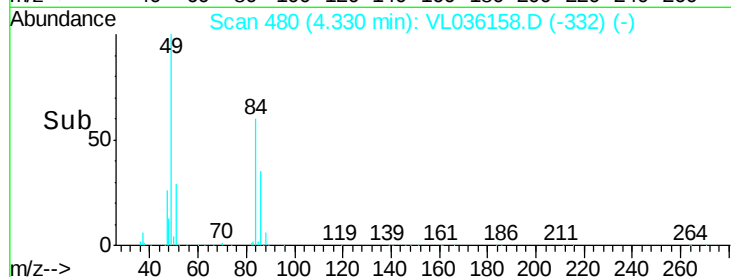
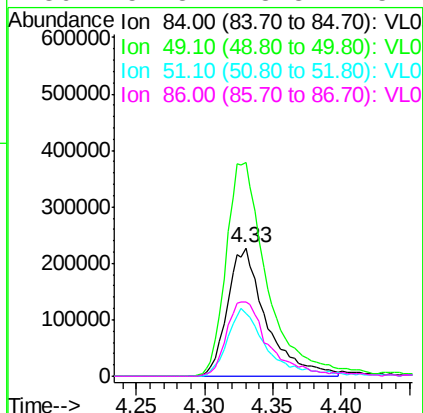
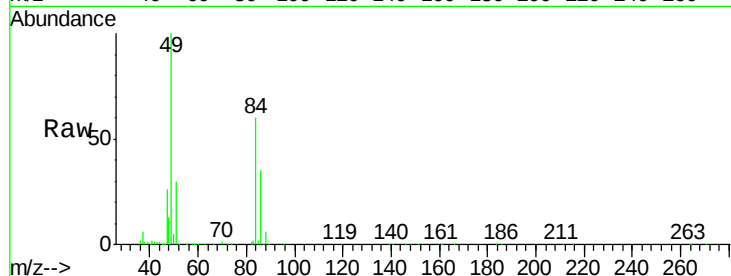




#20
Methylene Chloride
Concen: 7.537 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.03 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

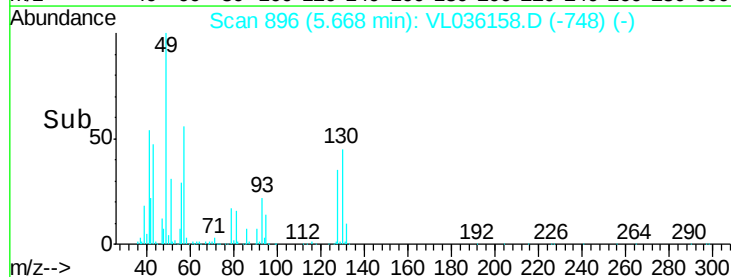
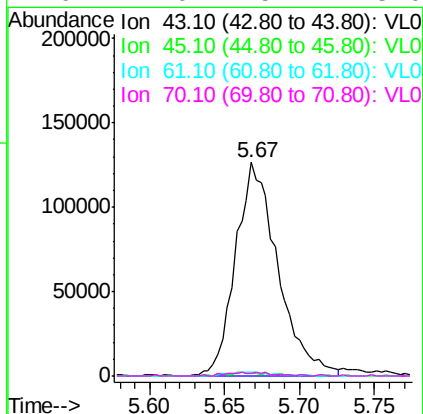
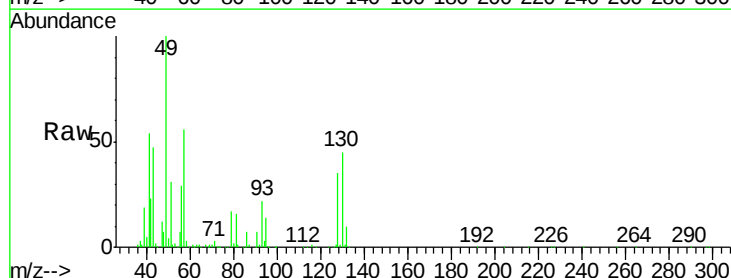
Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

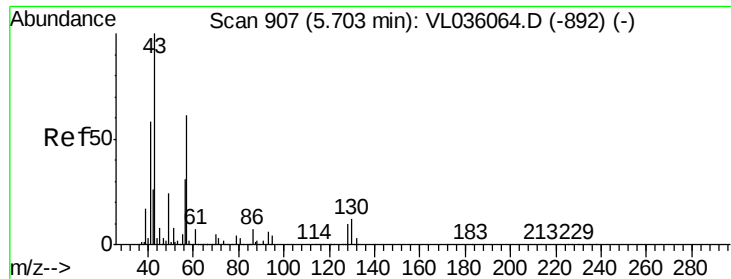
Tgt Ion: 84 Resp: 446252
Ion Ratio Lower Upper
84 100
49 166.9 133.0 199.4
51 49.4 38.9 58.3
86 57.8 48.8 73.2



#25
Ethyl Acetate
Concen: 0.859 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.03 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

Tgt Ion: 43 Resp: 247938
Ion Ratio Lower Upper
43 100
45 2.1 8.2 12.4#
61 2.0 7.4 11.2#
70 2.0 5.4 8.0#

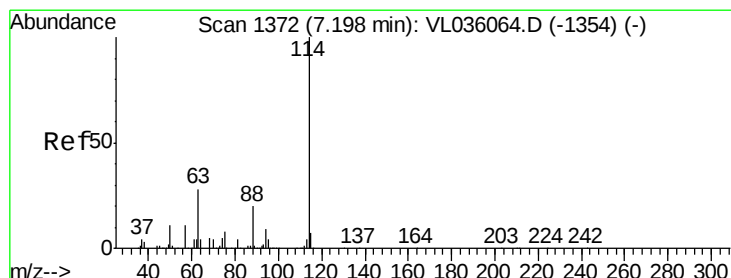
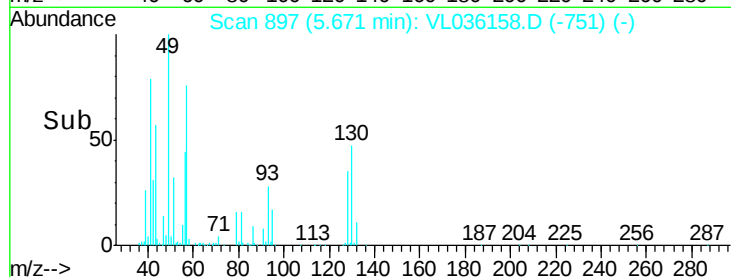
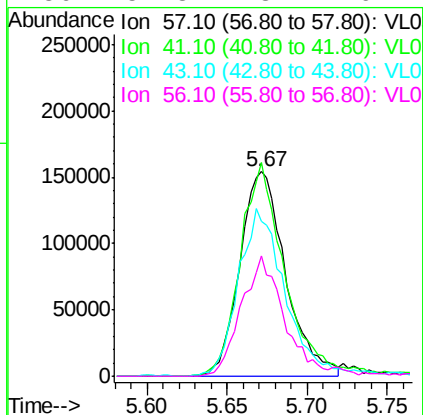
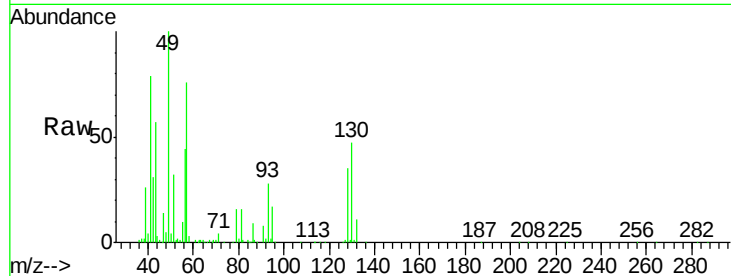




#26
Hexane
Concen: 2.329 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

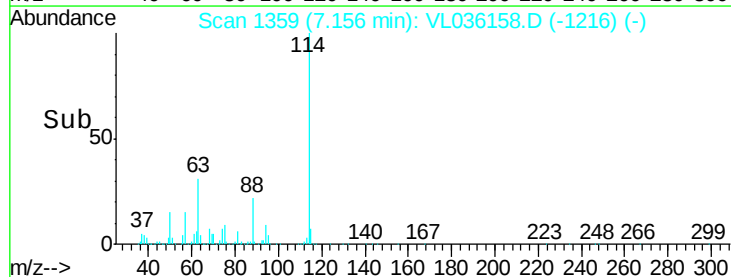
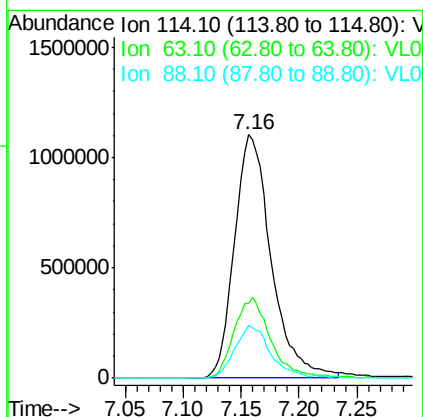
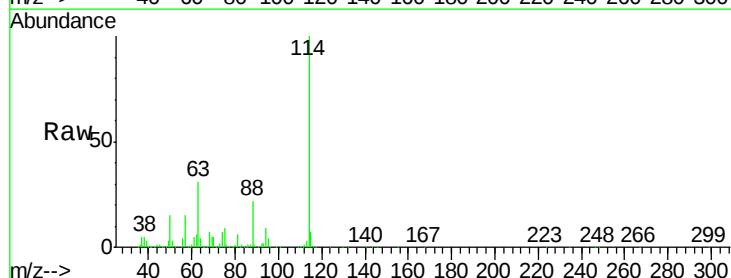
Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

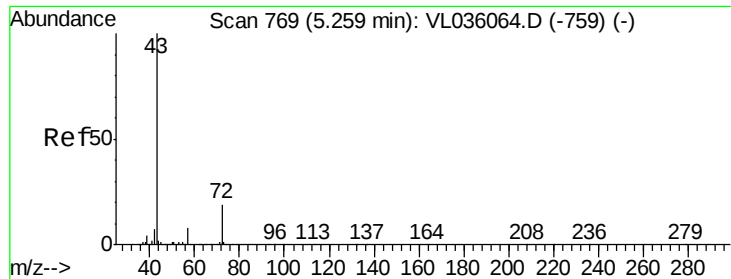
Tgt Ion: 57 Resp: 302594
Ion Ratio Lower Upper
57 100
41 105.4 82.9 124.3
43 85.6 199.9 299.9#
56 57.8 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.04 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

Tgt Ion: 114 Resp: 2424273
Ion Ratio Lower Upper
114 100
63 33.4 23.6 35.4
88 21.5 15.8 23.6

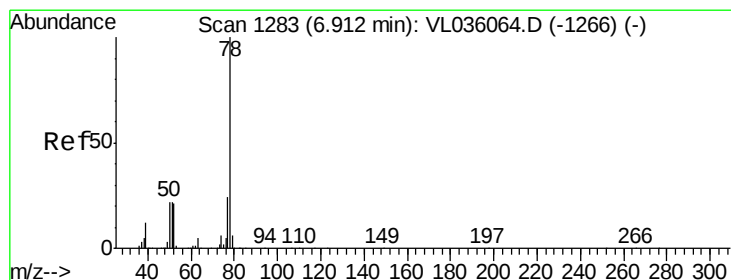
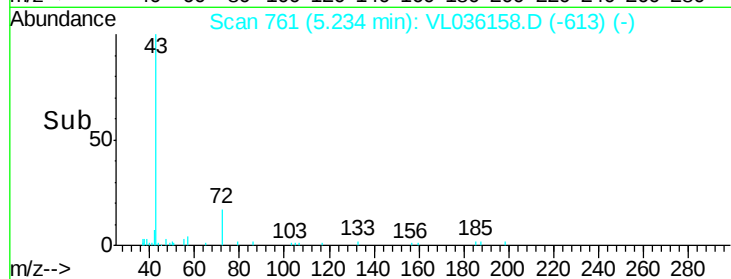
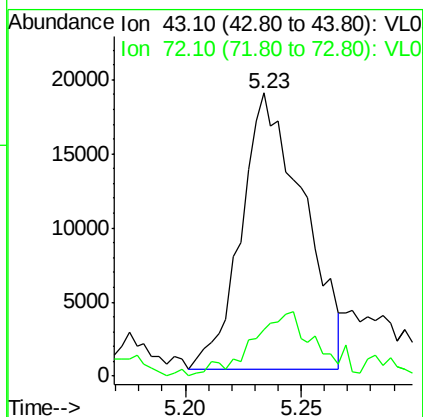
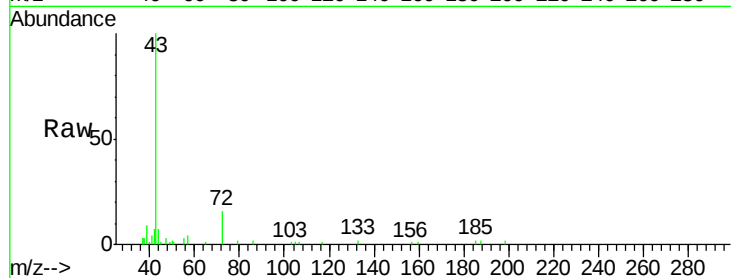




#34
2-Butanone
Concen: 0.219 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.03 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

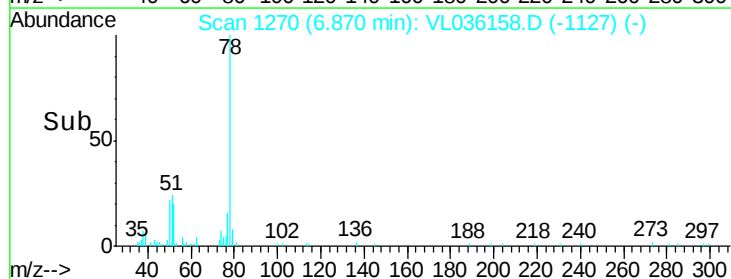
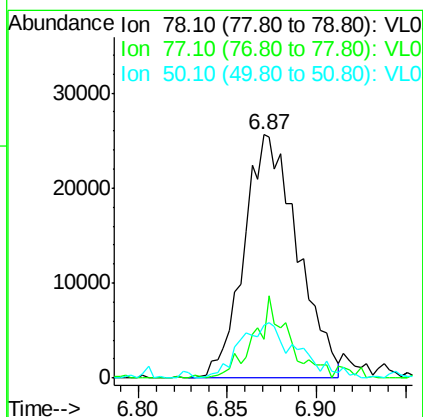
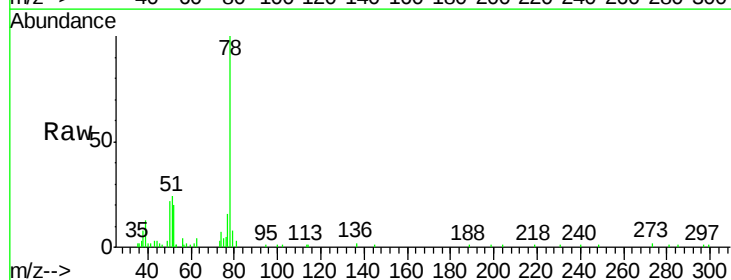
Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

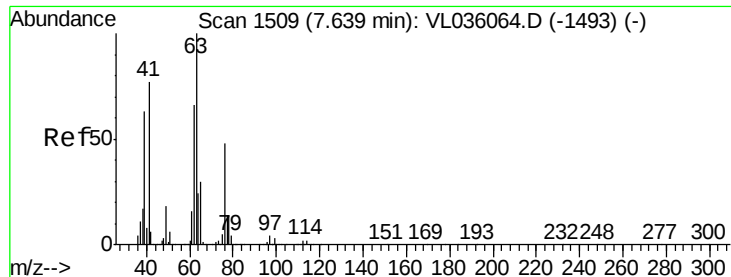
Tgt Ion: 43 Resp: 35157
Ion Ratio Lower Upper
43 100
72 23.3 16.5 24.7



#36
Benzene
Concen: 0.261 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.04 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

Tgt Ion: 78 Resp: 53697
Ion Ratio Lower Upper
78 100
77 15.7 19.4 29.2#
50 19.7 17.8 26.8





#39

1,2-Dichloropropane

Concen: 9.772 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.48 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

VSTDCCC050

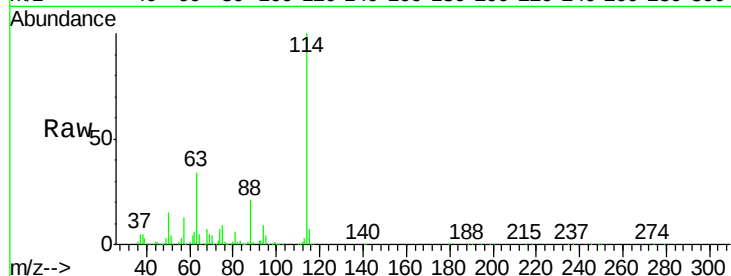
Tgt Ion: 63 Resp: 792867

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

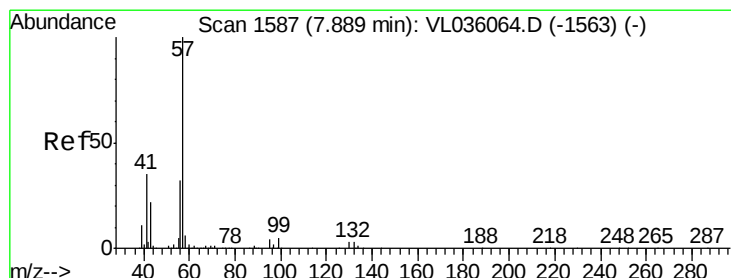
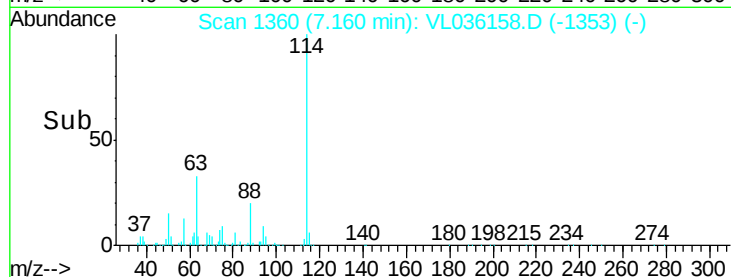
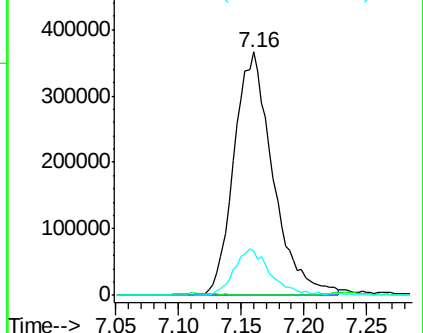
62 17.9 52.5 78.7#



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



#44

2,2,4-Trimethylpentane

Concen: 0.053 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.04 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

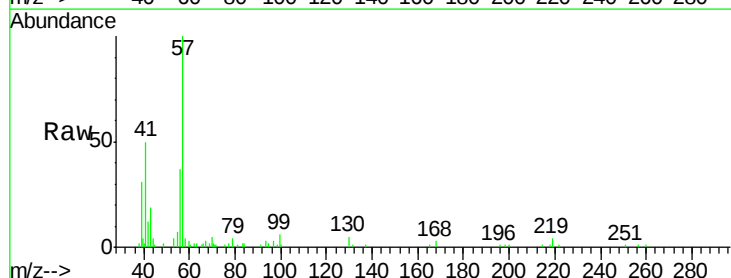
Tgt Ion: 57 Resp: 19835

Ion Ratio Lower Upper

57 100

41 91.0 28.9 43.3#

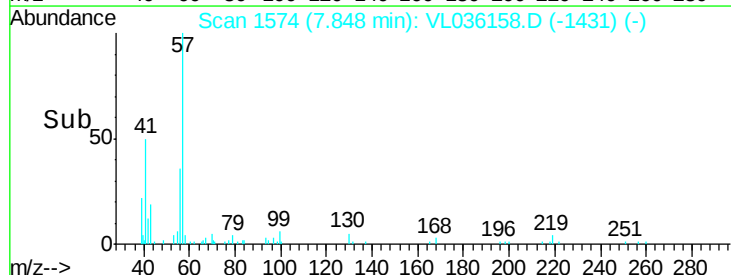
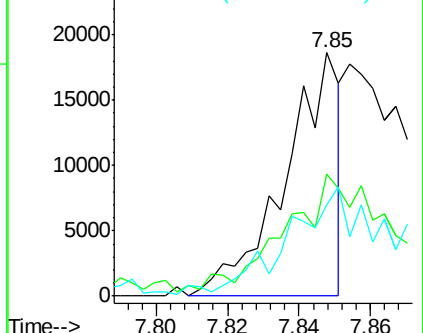
56 0.0 25.3 37.9#

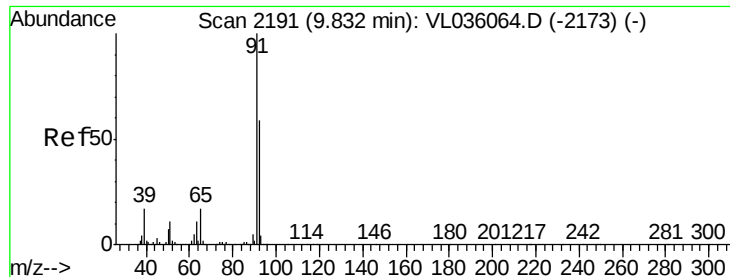


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.839 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.04 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

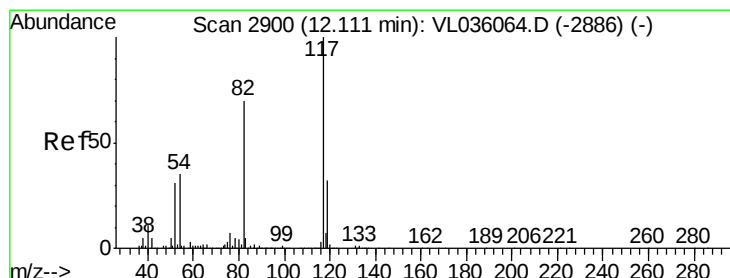
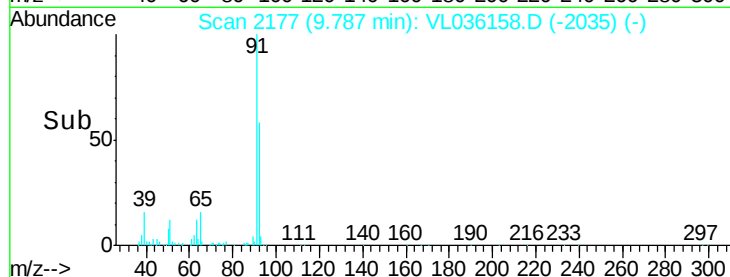
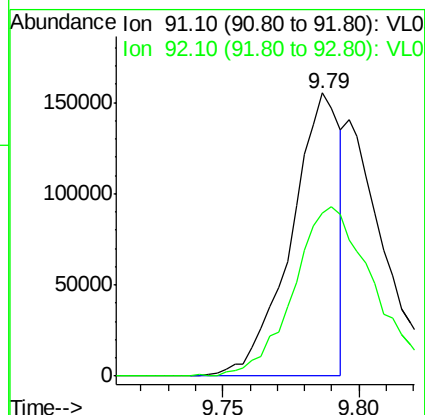
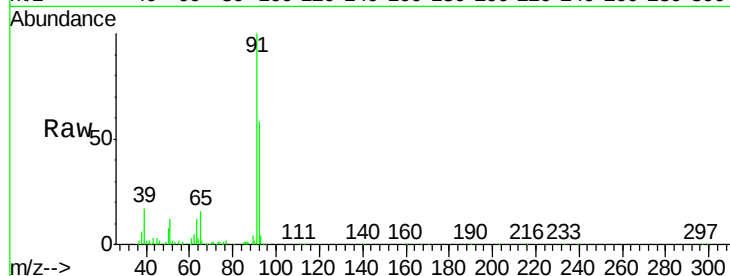
VSTDCCC050

Tgt Ion: 91 Resp: 193455

Ion Ratio Lower Upper

91 100

92 101.7 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.04 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

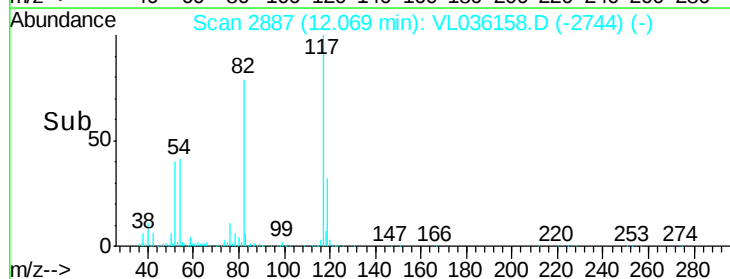
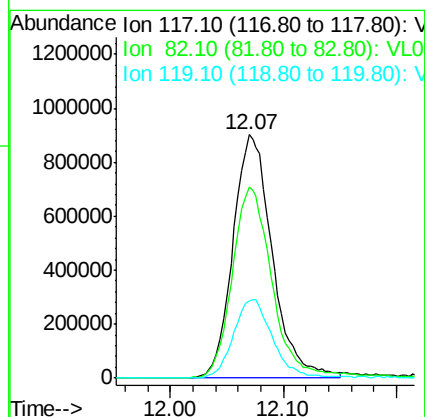
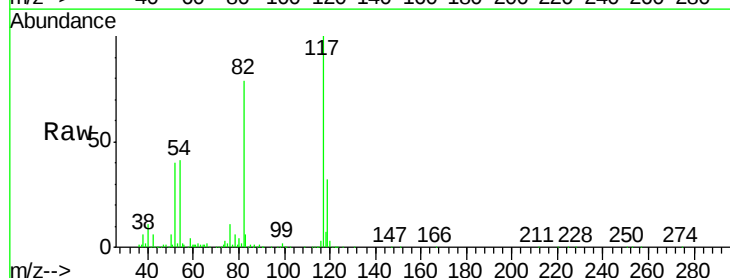
Tgt Ion: 117 Resp: 2176407

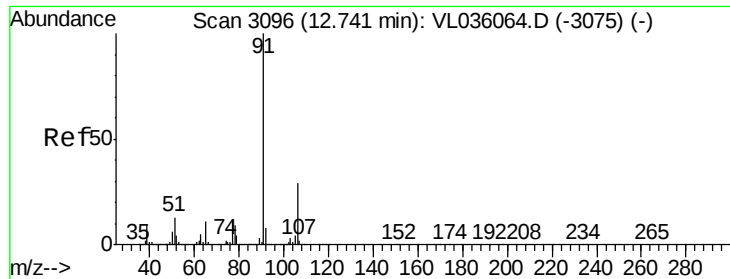
Ion Ratio Lower Upper

117 100

82 80.6 0.0 0.0#

119 32.6 0.0 0.0#





#58

Ethyl Benzene

Concen: 0.053 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. -0.04 min

Lab File: VL036158.D

Acq: 11 Dec 2020 10:39

Instrument :

MSVOA_X

LabSampleId :

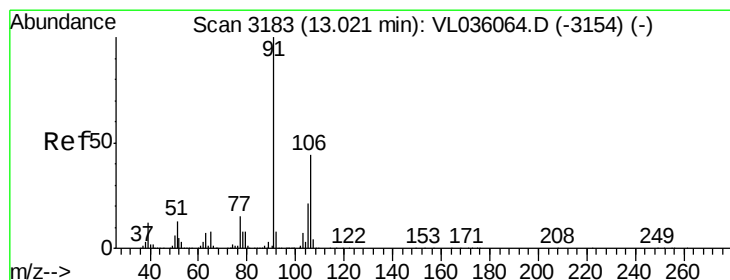
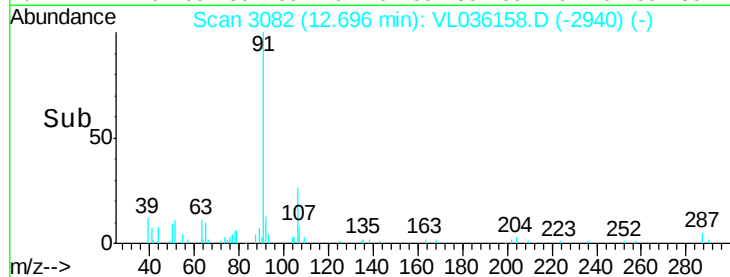
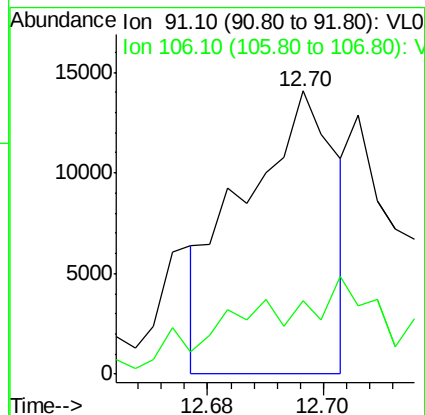
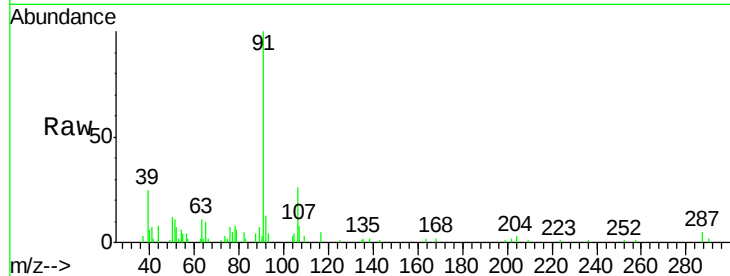
VSTDCCC050

Tgt Ion: 91 Resp: 15766

Ion Ratio Lower Upper

91 100

106 33.1 23.0 34.4



#59

m/p-Xylene

Concen: 0.041 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.04 min

Lab File: VL036158.D

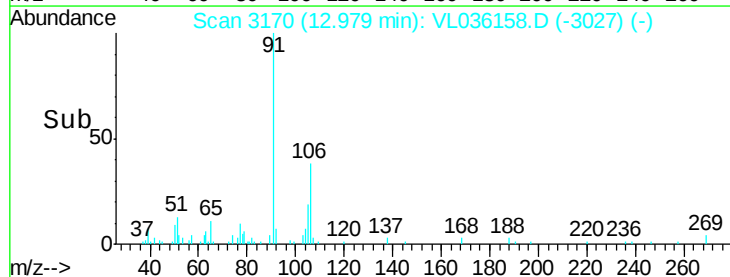
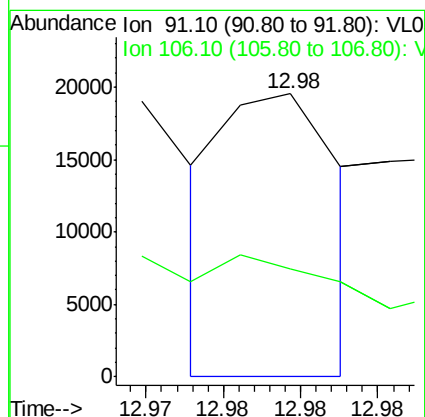
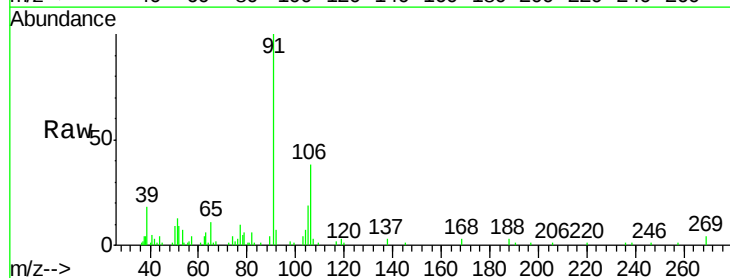
Acq: 11 Dec 2020 10:39

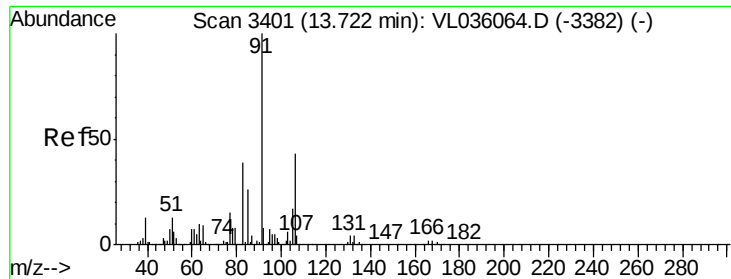
Tgt Ion: 91 Resp: 10193

Ion Ratio Lower Upper

91 100

106 0.0 33.6 50.4#

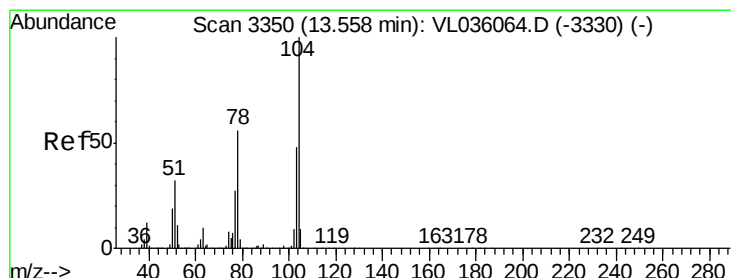
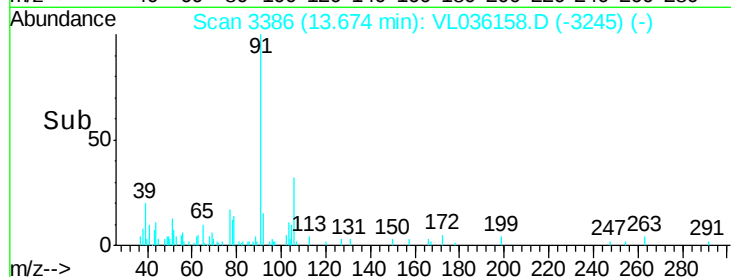
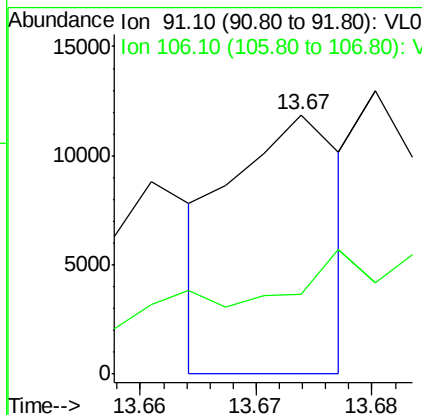
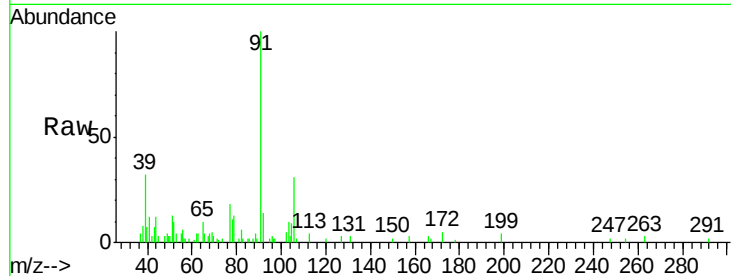




#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.05 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

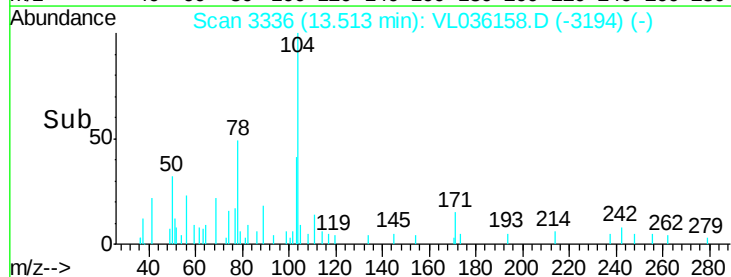
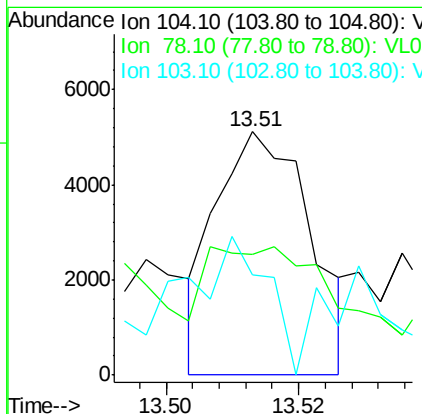
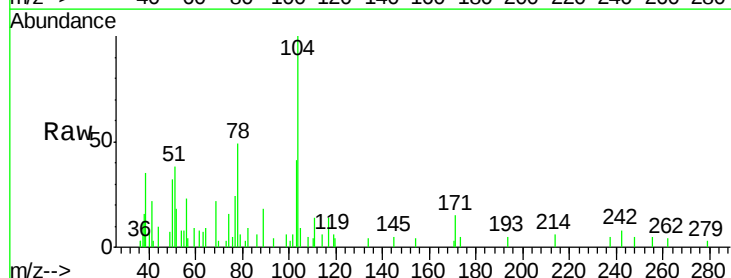
Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

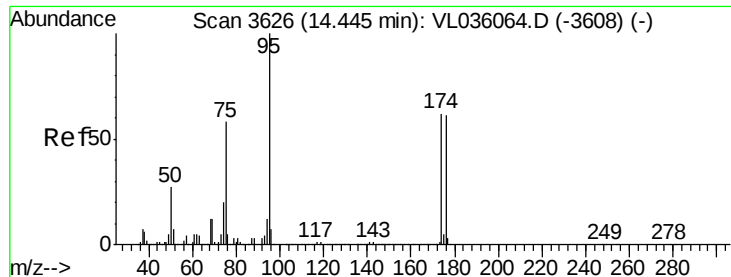
Tgt Ion: 91 Resp: 7873
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#



#61
Styrene
Concen: 0.033 ppbv
RT: 13.51 min Scan# 3336
Delta R.T. -0.04 min
Lab File: VL036158.D
Acq: 11 Dec 2020 10:39

Tgt Ion: 104 Resp: 5055
Ion Ratio Lower Upper
104 100
78 142.4 45.8 68.8#
103 104.0 38.6 57.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.164 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.04 min
 Lab File: VL036158.D
 Acq: 11 Dec 2020 10:39

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Tgt Ion: 95 Resp: 1929357
 Ion Ratio Lower Upper
 95 100
 174 51.8 50.7 76.1
 175 3.9 4.0 6.0#

