

Data File : VL034587.D
Acq On : 4 Feb 2020 19:53
Operator : SY/AP
Sample : L1357-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Feb 05 05:45:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	885923	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1835377	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1815492	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1594492	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	95298	0.488	ppbv	98
3) Chlorodifluoromethane	2.96	51	79556	0.743	ppbv #	83
4) Chloromethane	3.11	50	29541	0.451	ppbv	95
9) Propene	3.17	41	53021	1.272	ppbv	88
11) Trichlorofluoromethane	3.93	101	46330	0.261	ppbv #	79
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4467	0.039	ppbv #	14
13) Ethanol	3.58	45	124754	11.174	ppbv	100
15) Acetone	3.83	43	268334	2.061	ppbv	91
19) Isopropyl Alcohol	3.96	45	62202	0.819	ppbv #	96
20) Methylene Chloride	4.33	84	20351	0.410	ppbv	86
25) Ethyl Acetate	5.68	43	36280	0.172	ppbv #	92
26) Hexane	5.68	57	25093	0.284	ppbv #	45
34) 2-Butanone	5.25	43	17706	0.133	ppbv #	85
36) Benzene	6.90	78	36013	0.221	ppbv #	90
39) 1,2-Dichloropropane	7.19	63	531494	7.855	ppbv #	20
52) Tetrachloroethene	11.26	164	2752	0.042	ppbv #	21
53) Toluene	9.83	91	37825	0.211	ppbv #	21

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

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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AA-1

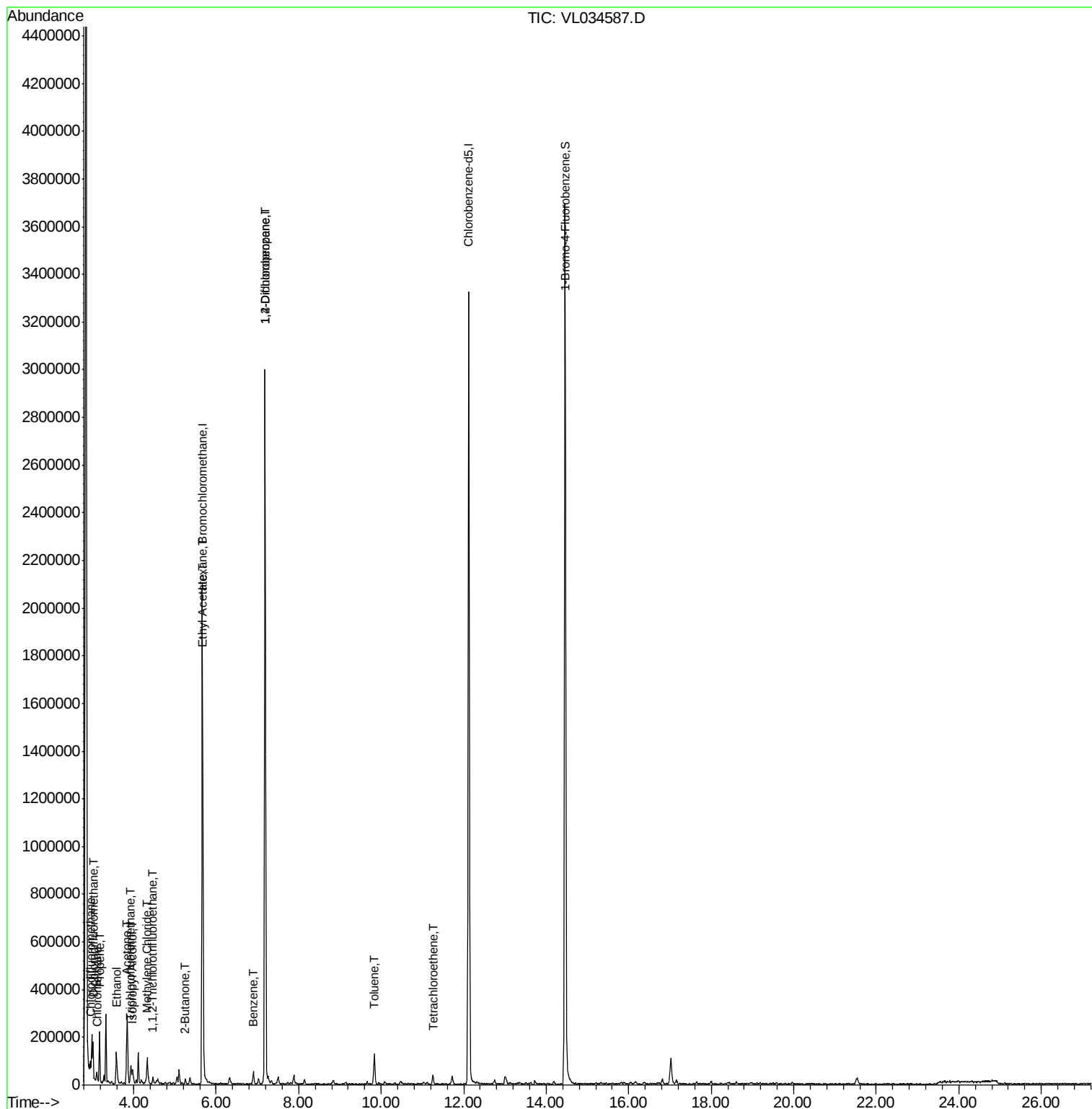
Quant Time: Feb 05 05:45:30 2020

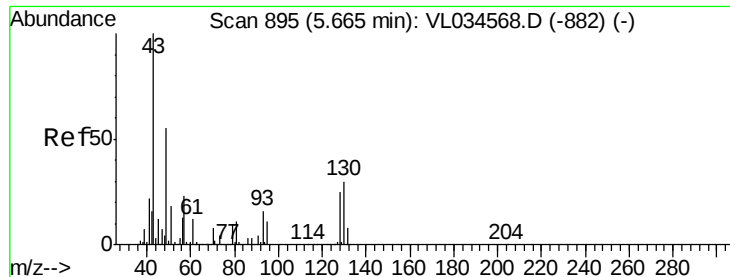
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

AA-1

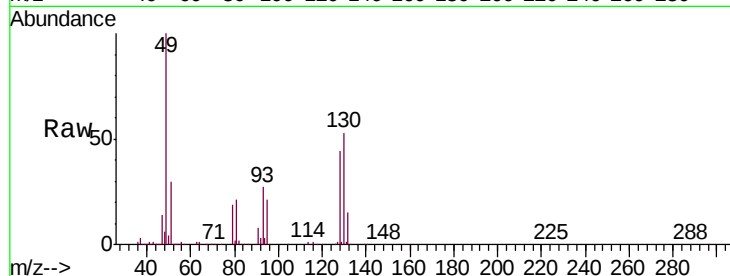
Tgt Ion: 49 Resp: 885923

Ion Ratio Lower Upper

49 100

128 45.8 22.7 68.1

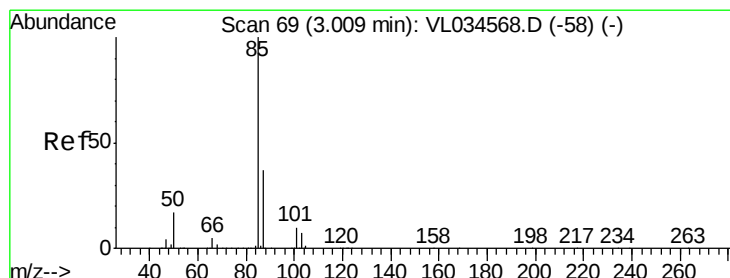
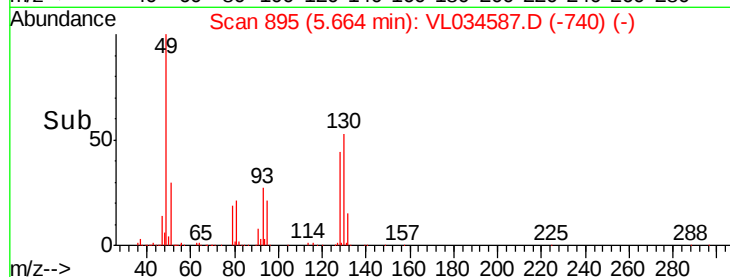
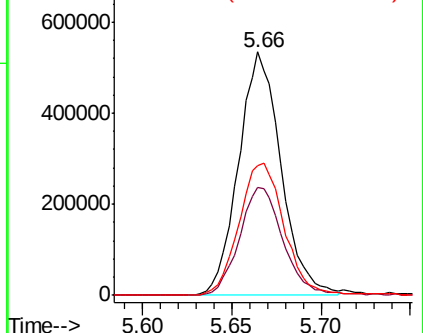
130 58.0 28.6 85.8



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: 0.488 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL034587.D

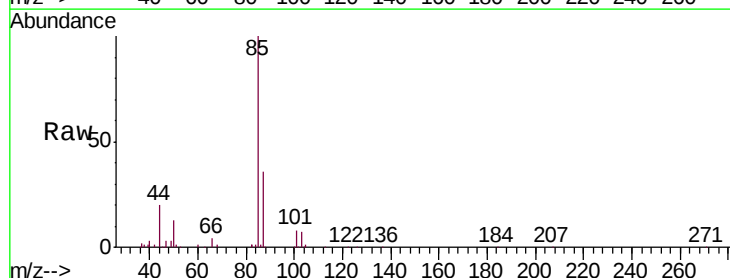
Acq: 4 Feb 2020 19:53

Tgt Ion: 85 Resp: 95298

Ion Ratio Lower Upper

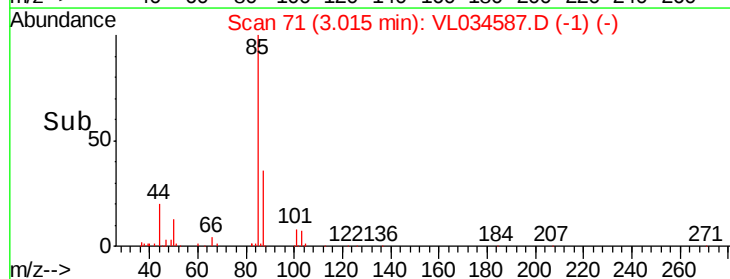
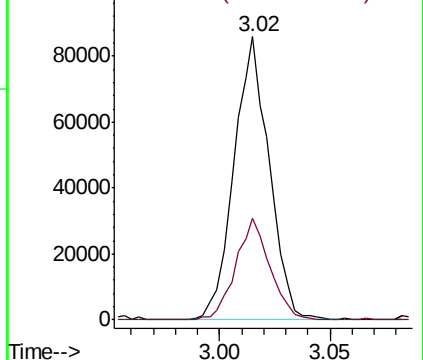
85 100

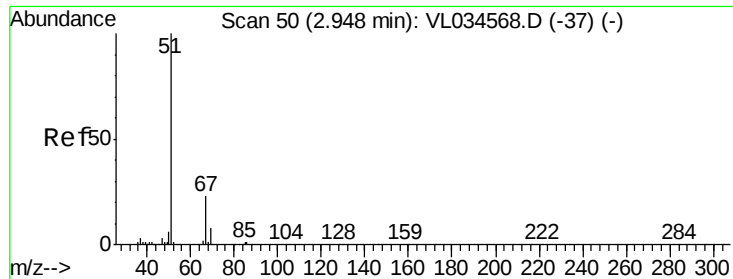
87 35.8 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.743 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.01 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

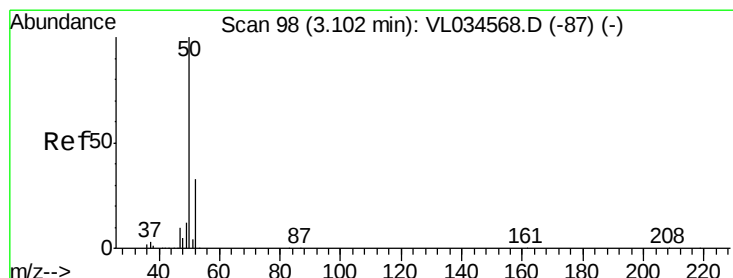
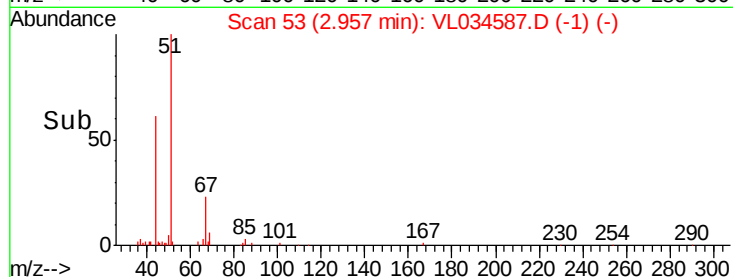
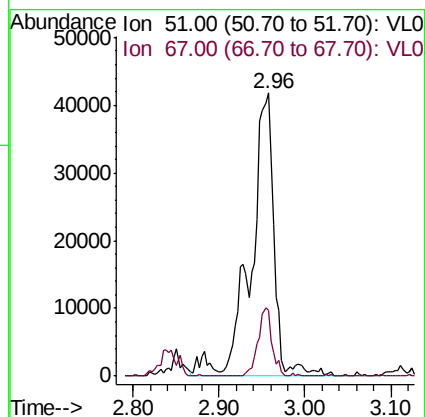
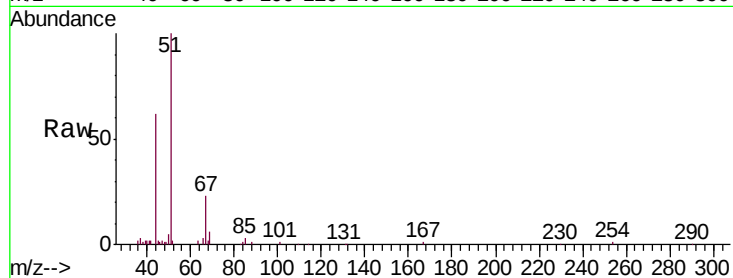
AA-1

Tgt Ion: 51 Resp: 79556

Ion Ratio Lower Upper

51 100

67 14.3 17.8 26.8#



#4

Chloromethane

Concen: 0.451 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034587.D

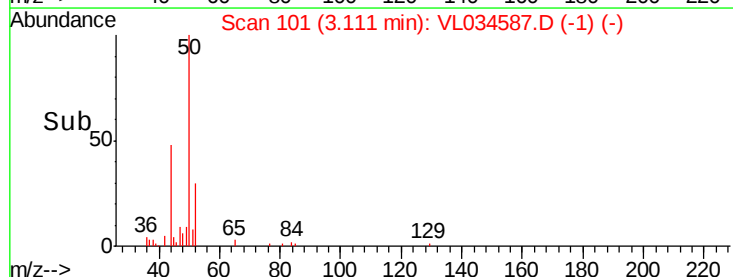
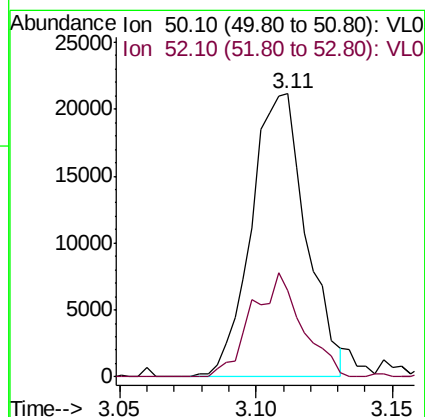
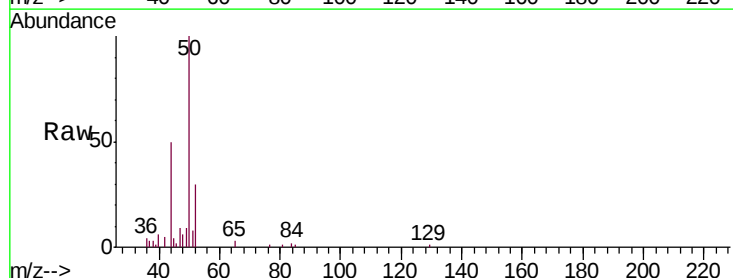
Acq: 4 Feb 2020 19:53

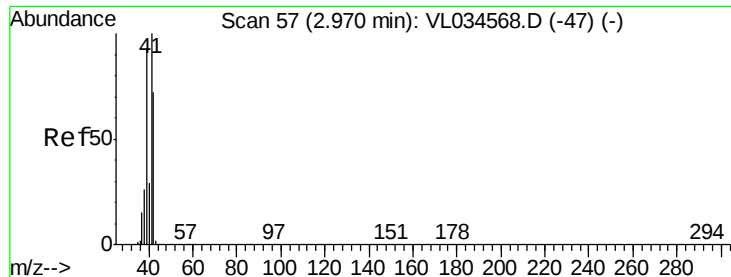
Tgt Ion: 50 Resp: 29541

Ion Ratio Lower Upper

50 100

52 30.3 26.6 39.8





#9

Propene

Concen: 1.272 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.20 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

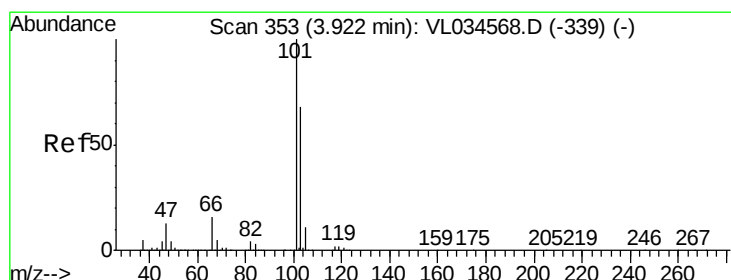
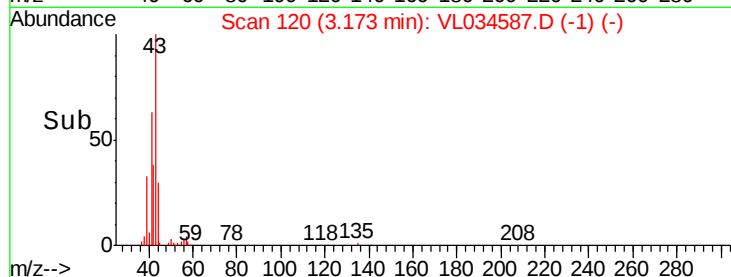
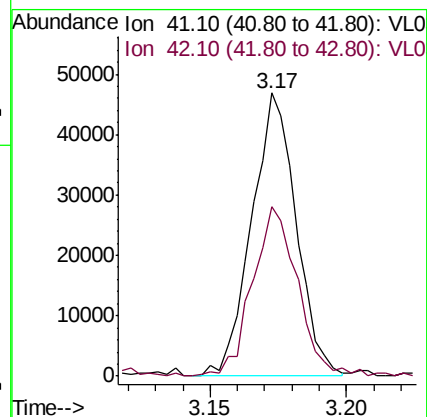
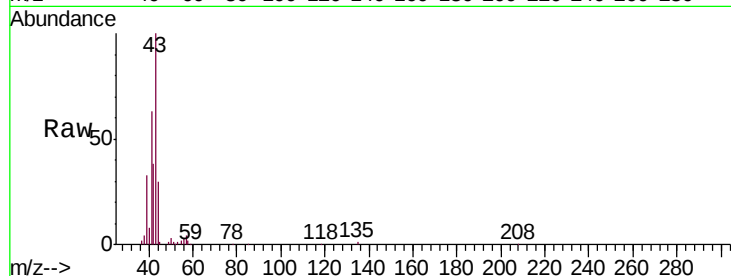
AA-1

Tgt Ion: 41 Resp: 53021

Ion Ratio Lower Upper

41 100

42 61.3 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034587.D

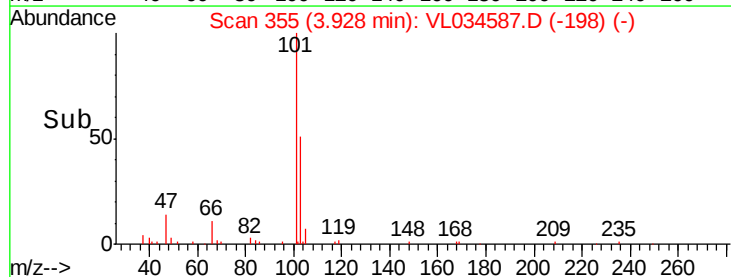
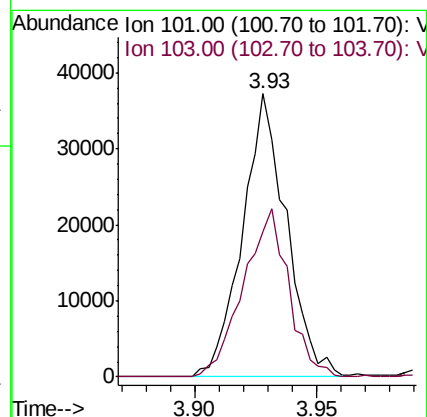
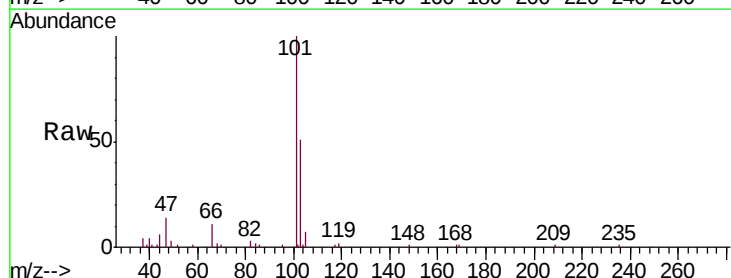
Acq: 4 Feb 2020 19:53

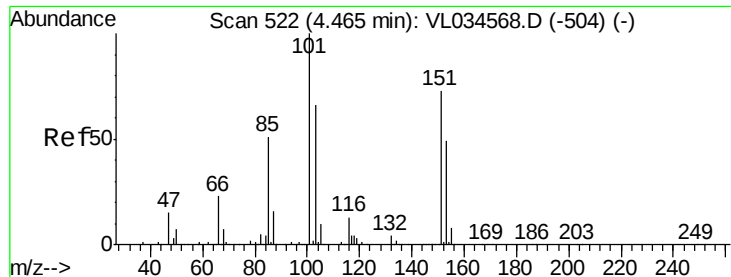
Tgt Ion: 101 Resp: 46330

Ion Ratio Lower Upper

101 100

103 51.2 54.4 81.6#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

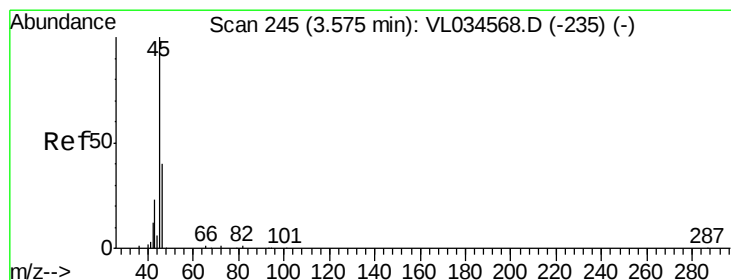
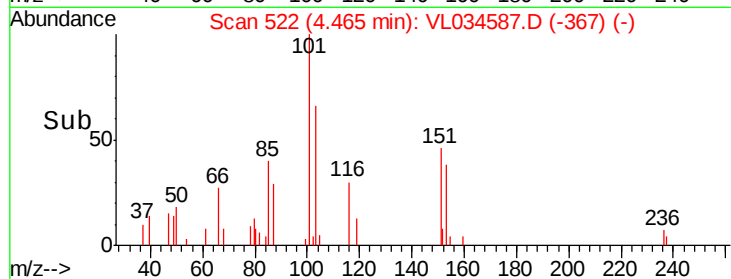
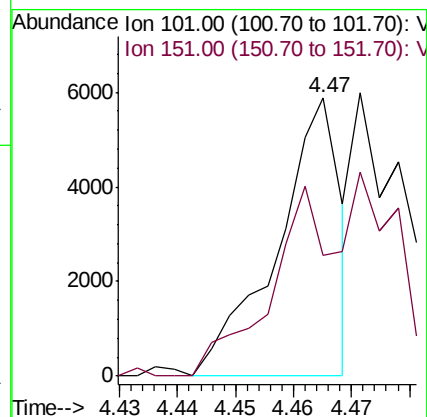
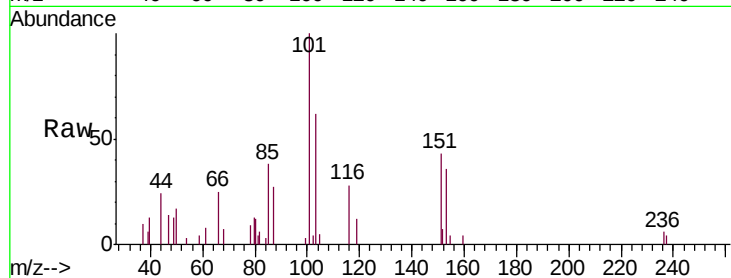
AA-1

Tgt Ion:101 Resp: 4467

Ion Ratio Lower Upper

101 100

151 0.0 57.0 85.6#



#13

Ethanol

Concen: 11.174 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL034587.D

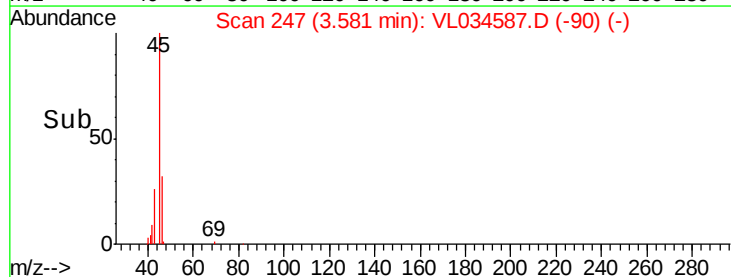
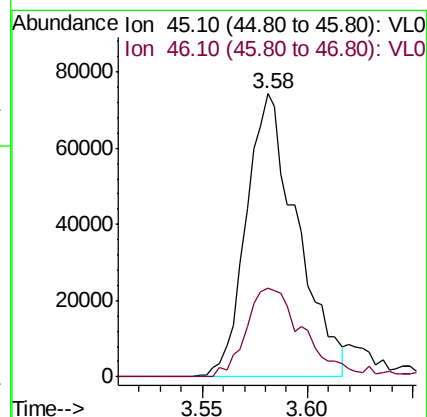
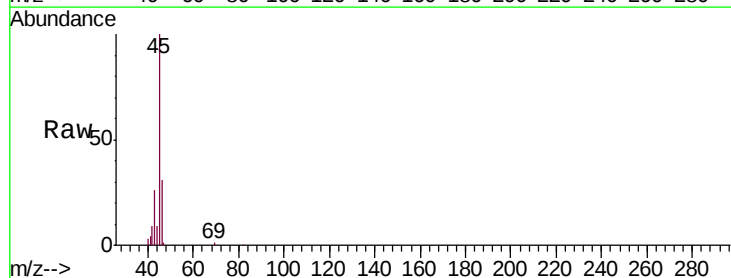
Acq: 4 Feb 2020 19:53

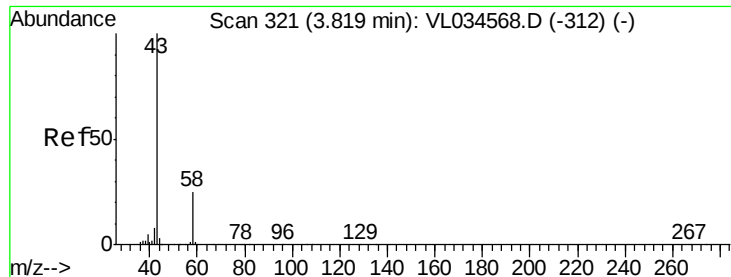
Tgt Ion: 45 Resp: 124754

Ion Ratio Lower Upper

45 100

46 37.0 14.8 59.2





#15

Acetone

Concen: 2.061 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.02 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

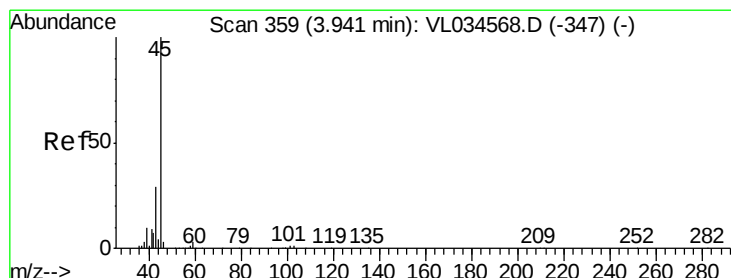
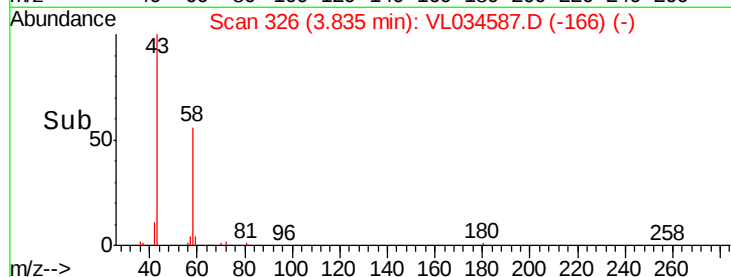
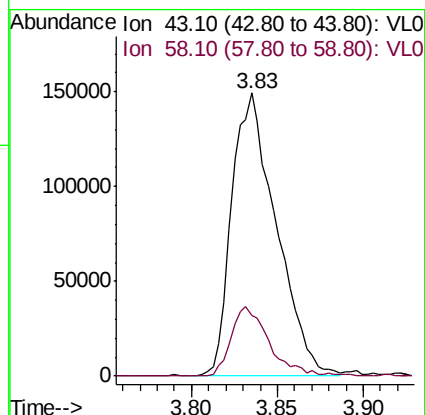
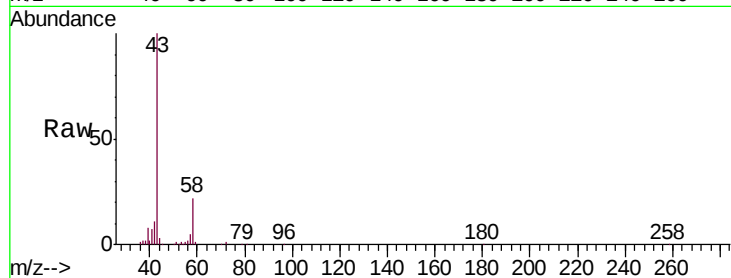
AA-1

Tgt Ion: 43 Resp: 268334

Ion Ratio Lower Upper

43 100

58 21.1 20.3 30.5



#19

Isopropyl Alcohol

Concen: 0.819 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL034587.D

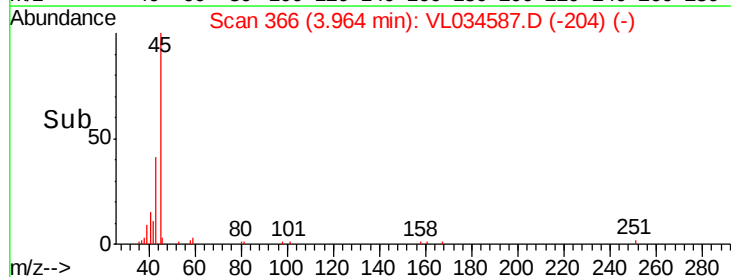
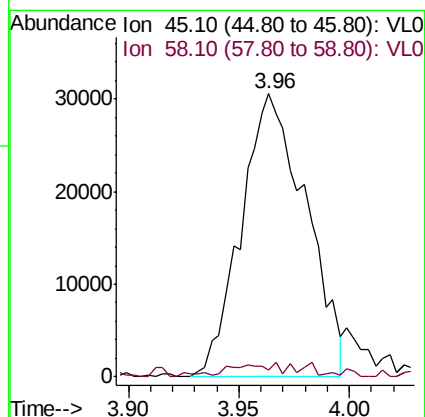
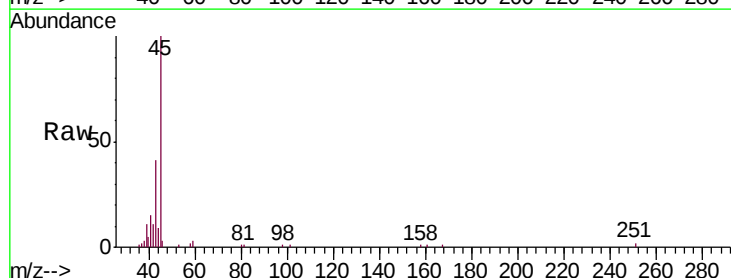
Acq: 4 Feb 2020 19:53

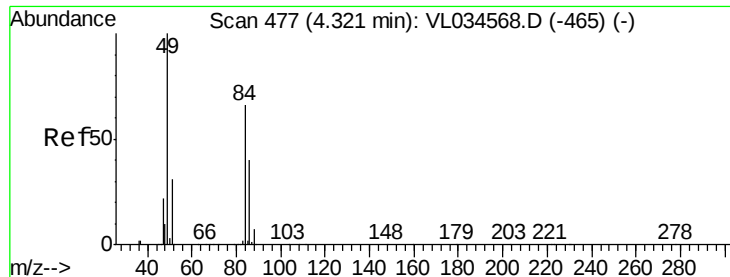
Tgt Ion: 45 Resp: 62202

Ion Ratio Lower Upper

45 100

58 3.5 1.7 2.5#

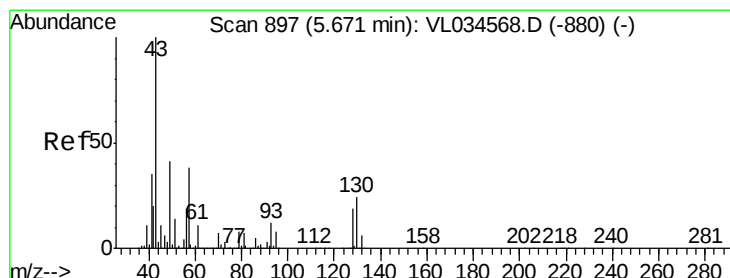
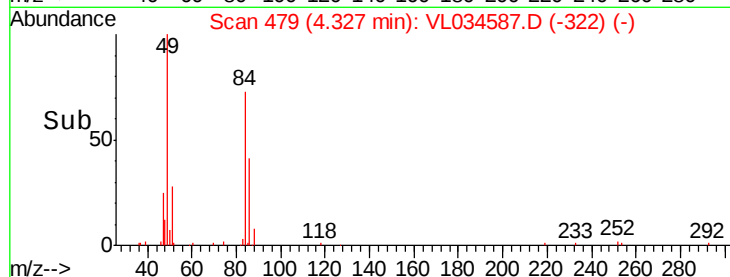
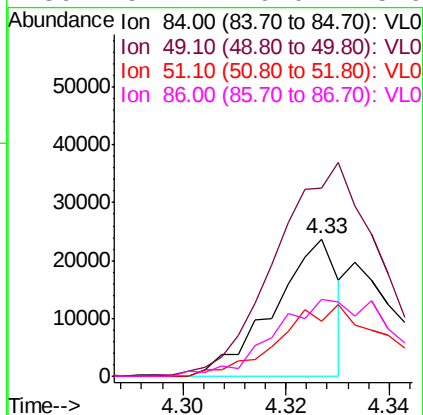
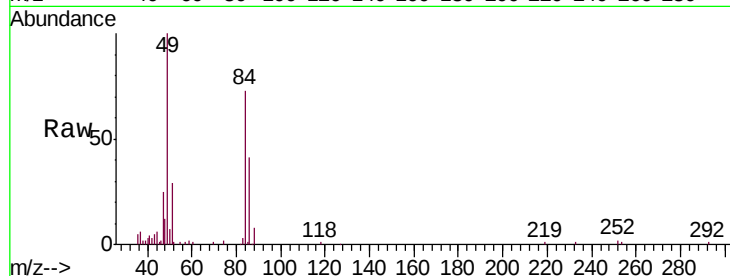




#20
Methylene Chloride
Concen: 0.410 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

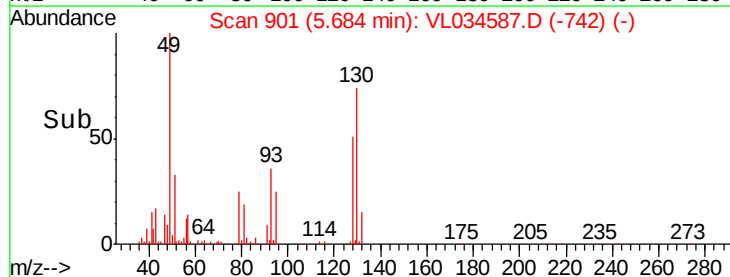
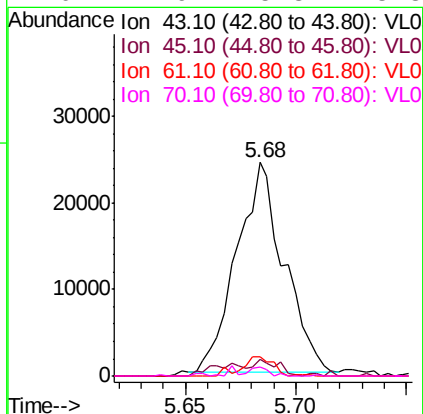
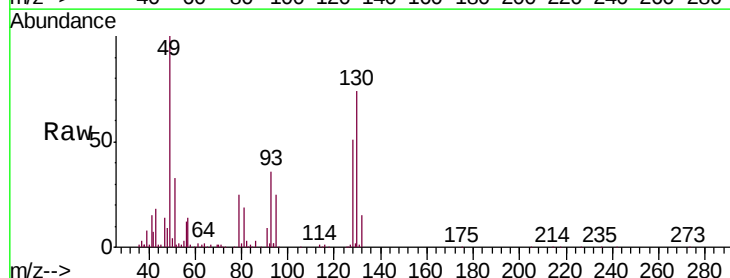
Instrument :
MSVOA_L
ClientSampled :
AA-1

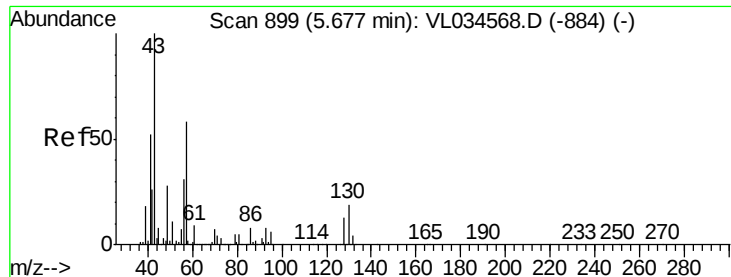
Tgt Ion:	84	Resp:	20351
Ion	Ratio	Lower	Upper
84	100		
49	133.8	122.4	183.6
51	40.6	38.6	57.8
86	52.1	49.0	73.6



#25
Ethyl Acetate
Concen: 0.172 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion:	43	Resp:	36280
Ion	Ratio	Lower	Upper
43	100		
45	8.8	8.5	12.7
61	6.3	7.8	11.6#
70	2.9	5.8	8.8#

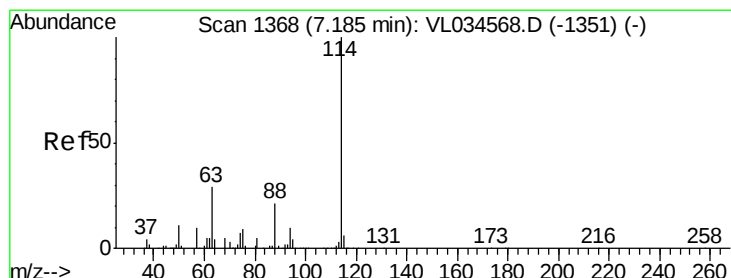
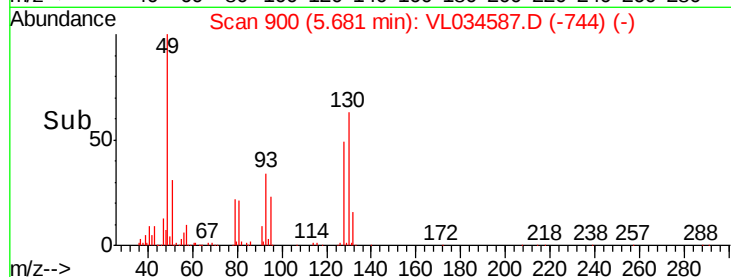
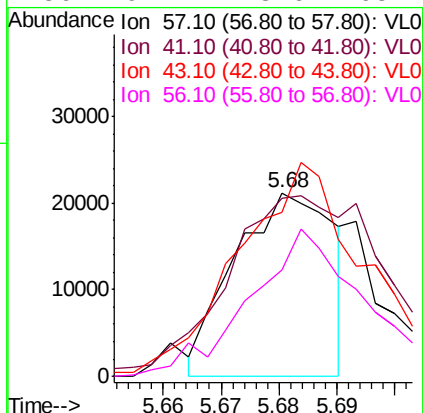
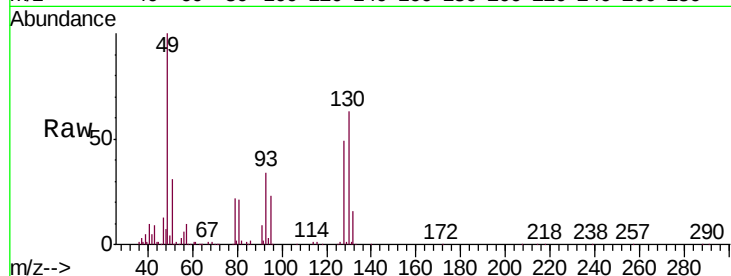




#26
Hexane
Concen: 0.284 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

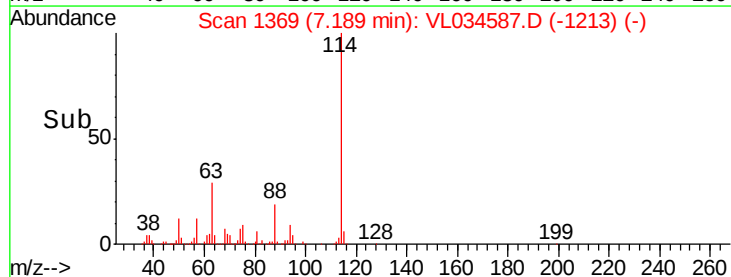
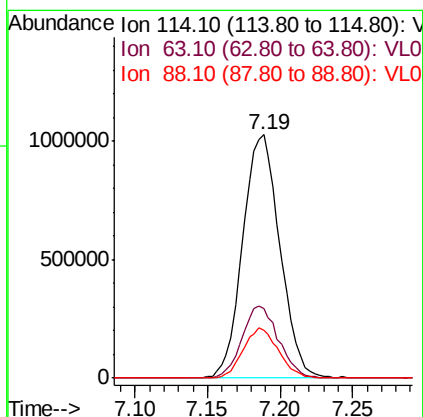
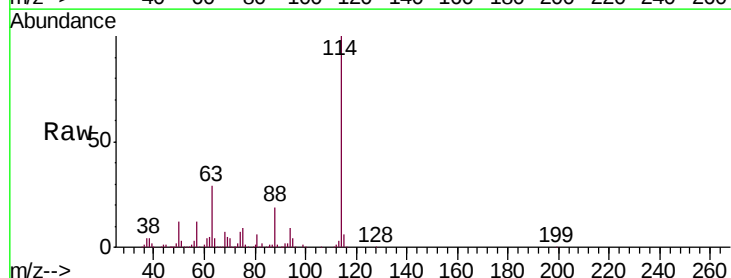
Instrument :
MSVOA_L
ClientSampleId :
AA-1

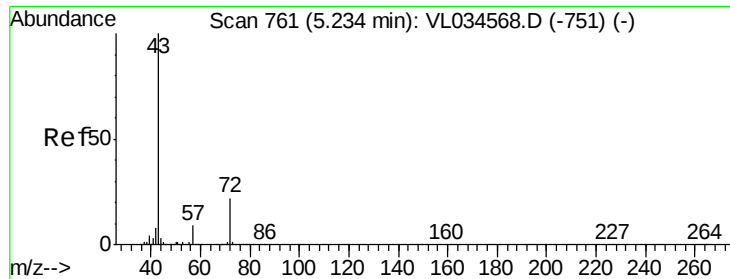
Tgt Ion: 57 Resp: 25093
Ion Ratio Lower Upper
57 100
41 161.9 76.2 114.2#
43 154.3 189.9 284.9#
56 94.2 43.6 65.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion: 114 Resp: 1835377
Ion Ratio Lower Upper
114 100
63 29.1 24.1 36.1
88 19.5 15.9 23.9

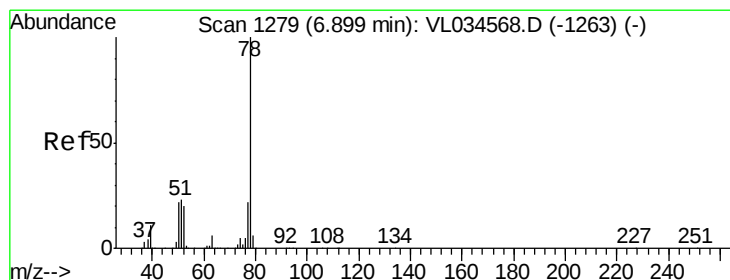
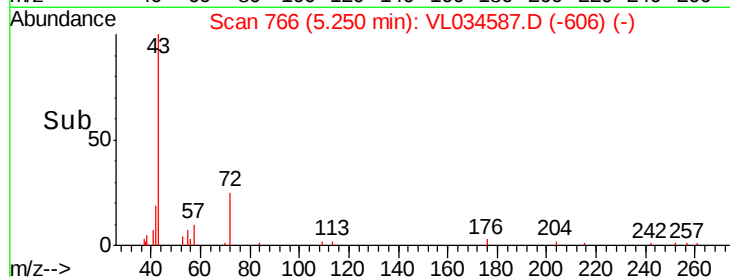
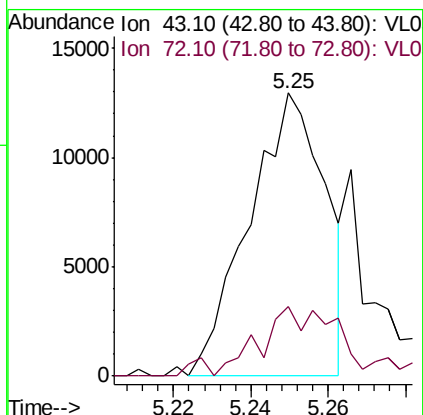
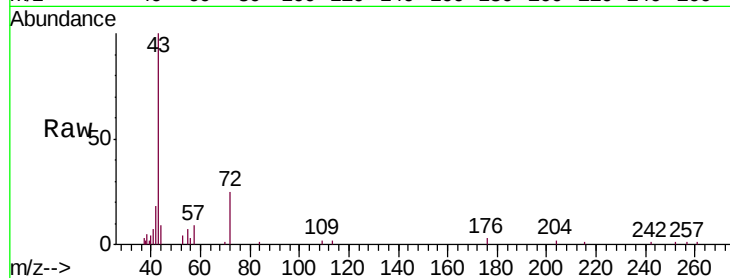




#34
2-Butanone
Concen: 0.133 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

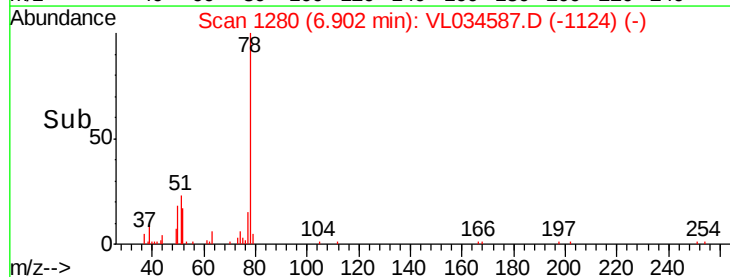
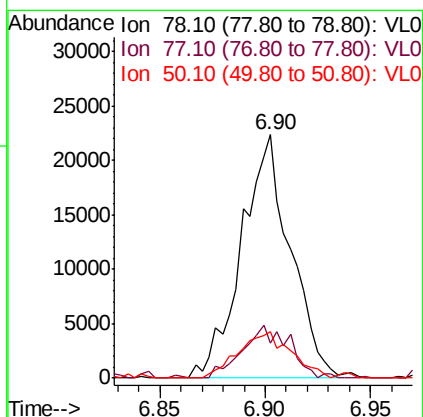
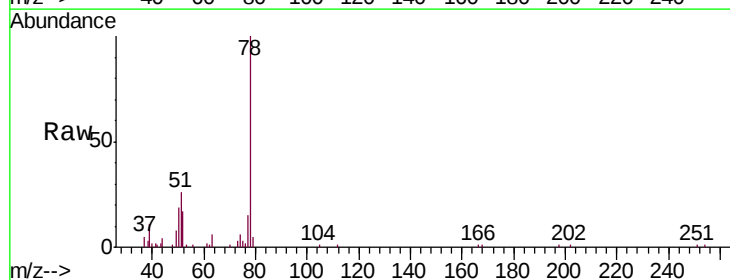
Instrument :
MSVOA_L
ClientSampled :
AA-1

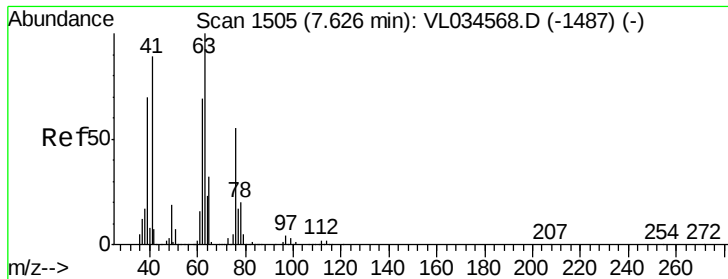
Tgt Ion: 43 Resp: 17706
Ion Ratio Lower Upper
43 100
72 28.5 17.2 25.8#



#36
Benzene
Concen: 0.221 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.00 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion: 78 Resp: 36013
Ion Ratio Lower Upper
78 100
77 14.6 17.3 25.9#
50 19.3 17.4 26.2

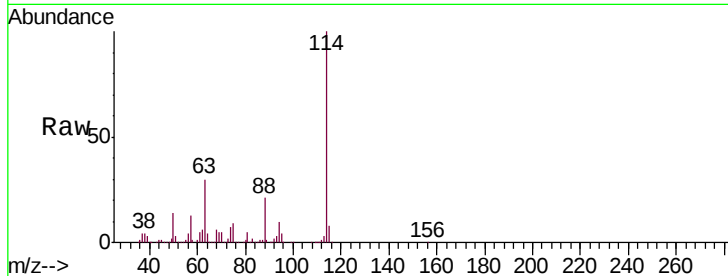




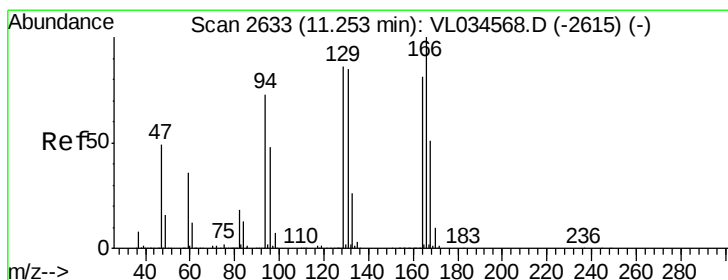
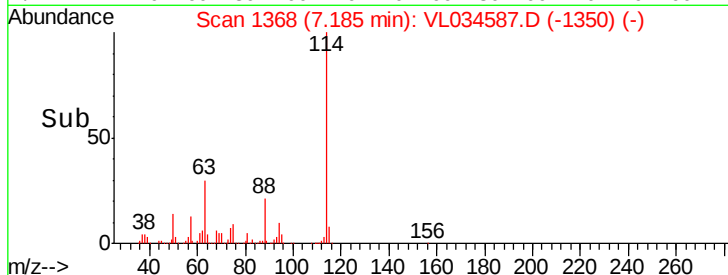
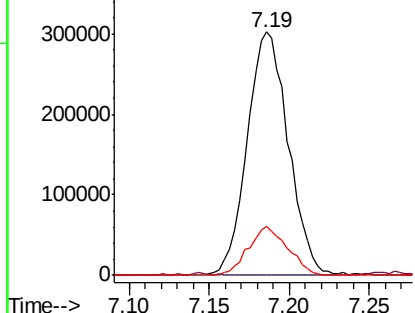
#39
 1,2-Dichloropropane
 Concen: 7.855 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.44 min
 Lab File: VL034587.D
 Acq: 4 Feb 2020 19:53

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

Tgt Ion: 63 Resp: 531494
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 20.4 55.4 83.0#



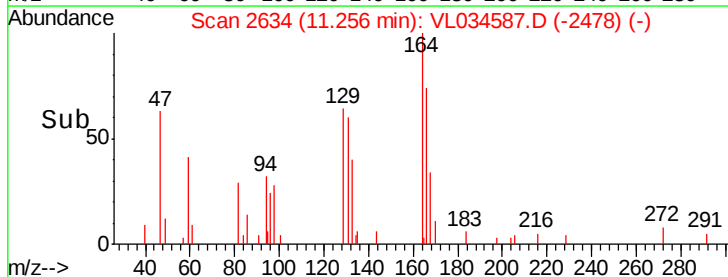
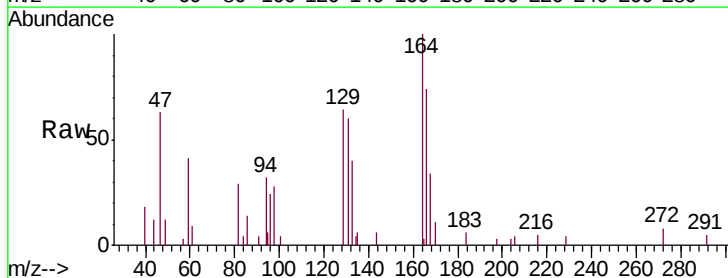
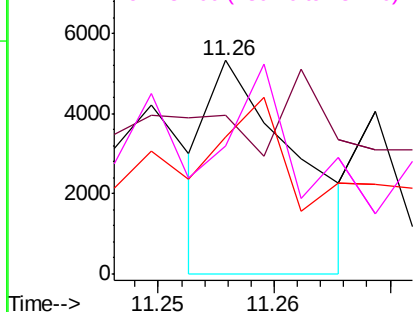
Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

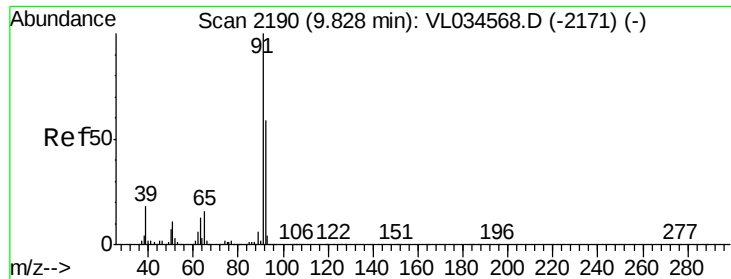


#52
 Tetrachloroethene
 Concen: 0.042 ppbv
 RT: 11.26 min Scan# 2634
 Delta R.T. 0.00 min
 Lab File: VL034587.D
 Acq: 4 Feb 2020 19:53

Tgt Ion: 164 Resp: 2752
 Ion Ratio Lower Upper
 164 100
 166 19.6 99.0 148.4#
 129 37.2 85.3 127.9#
 131 26.3 84.2 126.2#

Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 165.90 (165.60 to 166.60): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.211 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

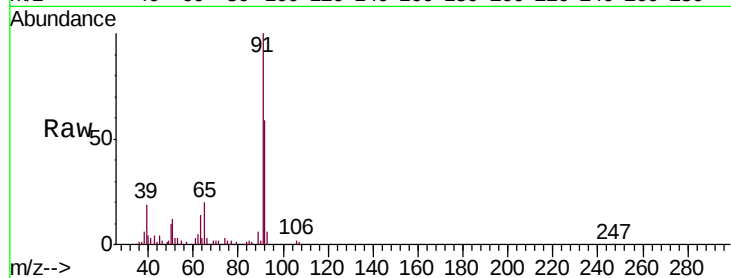
AA-1

Tgt Ion: 91 Resp: 37825

Ion Ratio Lower Upper

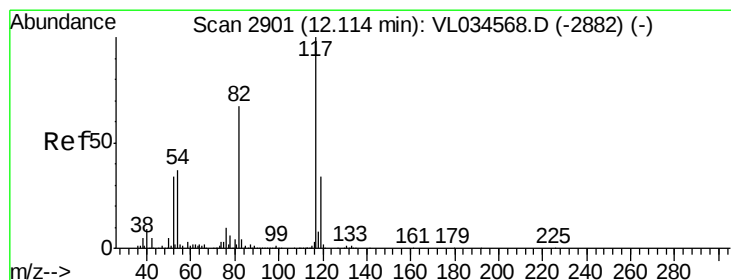
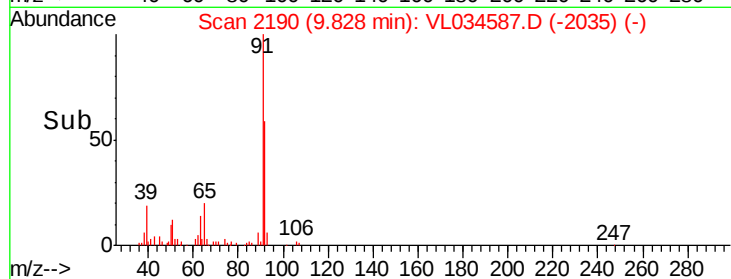
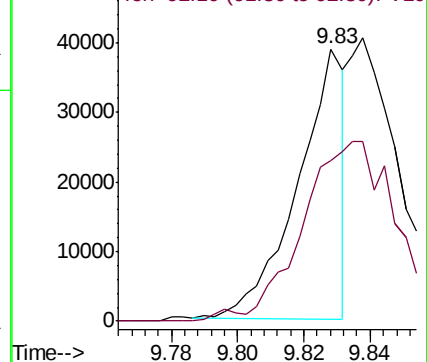
91 100

92 0.0 48.2 72.2#



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: 12.12 min Scan# 2903

Delta R.T. 0.01 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

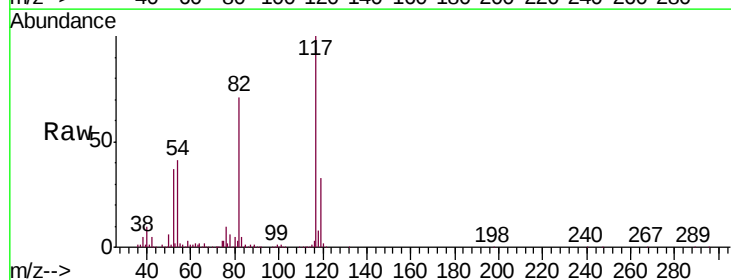
Tgt Ion: 117 Resp: 1815492

Ion Ratio Lower Upper

117 100

82 70.6 54.2 81.4

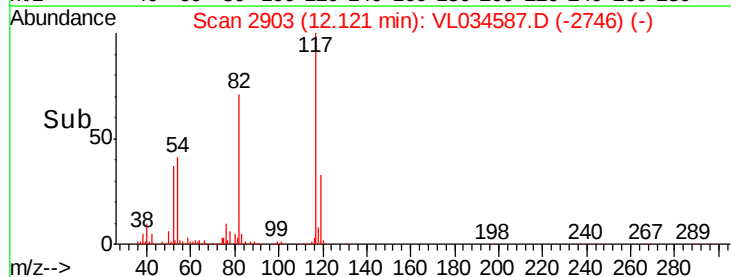
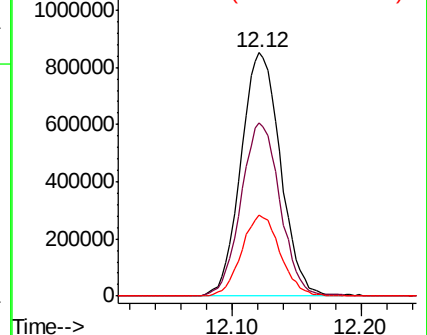
119 32.4 26.1 39.1

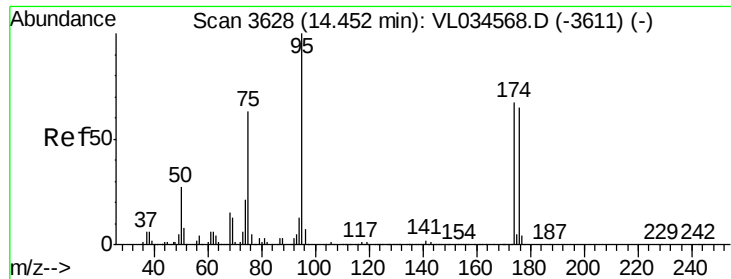


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.392 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.01 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 95 Resp: 1594492

Ion Ratio Lower Upper

95 100

174 63.9 52.3 78.5

175 4.6 3.8 5.6

