

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035881.D
 Acq On : 6 Nov 2020 5:02
 Operator : SY/AP
 Sample : L4618-05 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2

Quant Time: Nov 06 05:52:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1148153	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4747757	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4319231	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.39	95	3017828	9.83	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%	

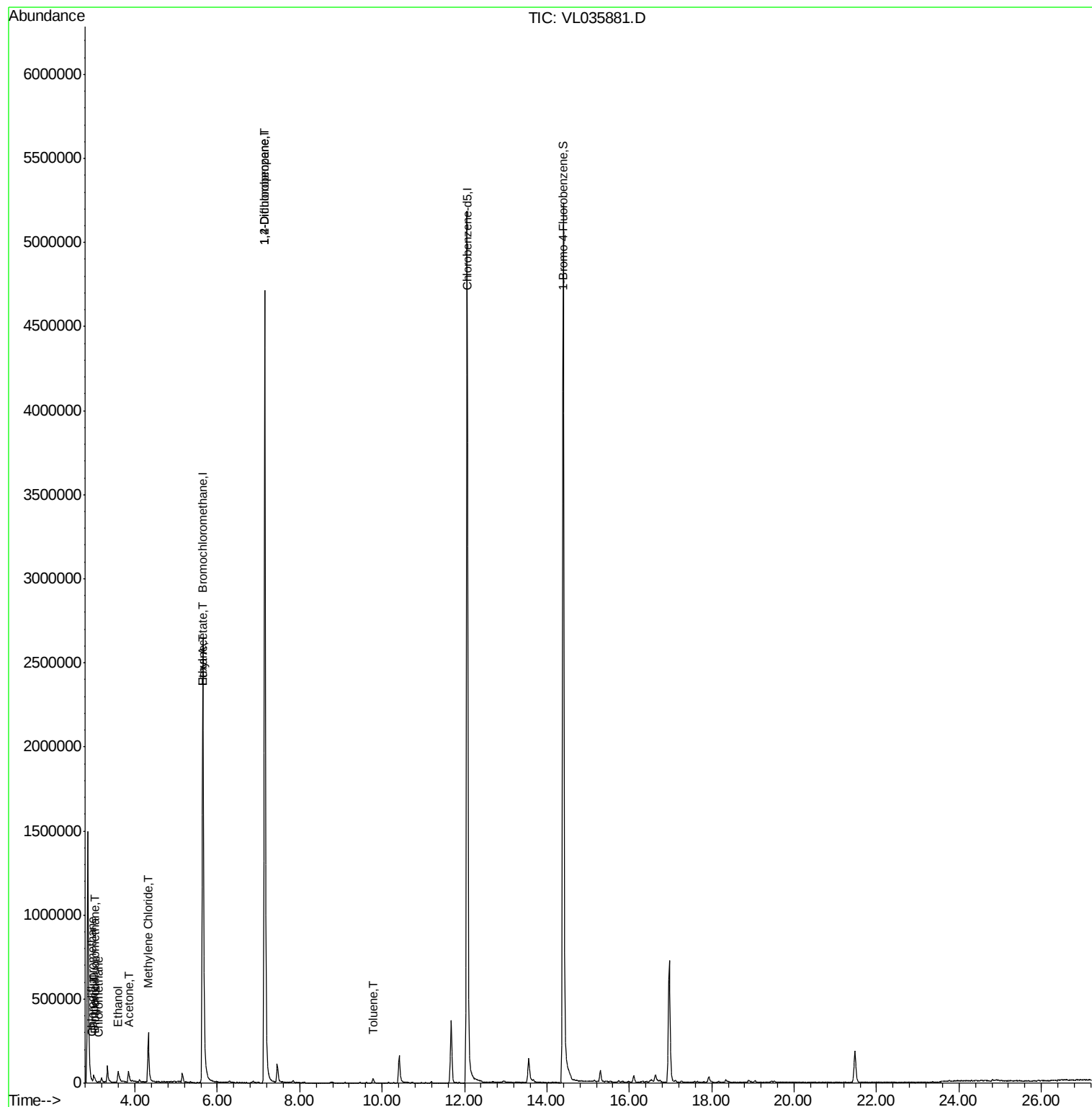
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	14947	0.069	ppbv	97
3) Chlorodifluoromethane	2.97	51	12936	0.094	ppbv #	86
4) Chloromethane	3.13	50	3818	0.057	ppbv	98
9) Propene	3.00	41	11651	0.232	ppbv	84
13) Ethanol	3.59	45	103785	9.506	ppbv	100
15) Acetone	3.83	43	74740	0.609	ppbv #	73
20) Methylene Chloride	4.32	84	162821	1.884	ppbv	96
25) Ethyl Acetate	5.66	43	77734	0.321	ppbv #	72
26) Hexane	5.66	57	143827	1.078	ppbv #	45
39) 1,2-Dichloropropane	7.15	63	877610	7.385	ppbv #	30
53) Toluene	9.78	91	20888	0.049	ppbv	99

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

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QLast Update : Wed Nov 04 02:40:06 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2

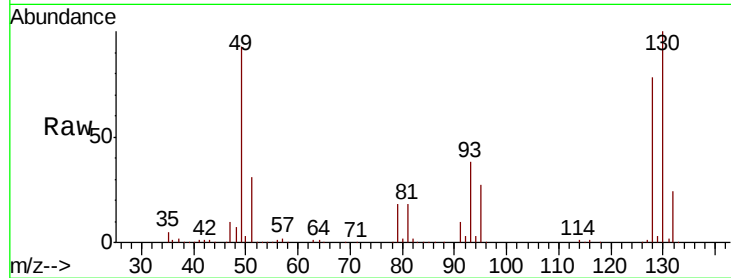
Tot Ion: 49 Resp: 1148153

Ion Ratio Lower Upper

49 100

128 85.5 41.5 124.6

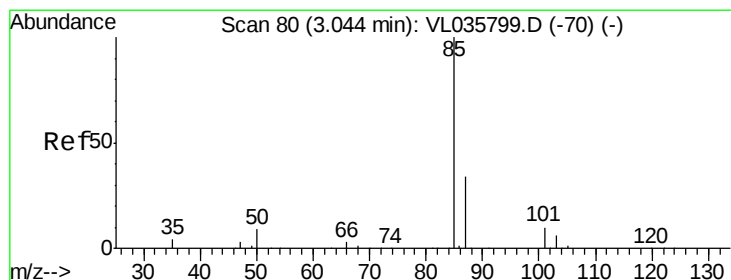
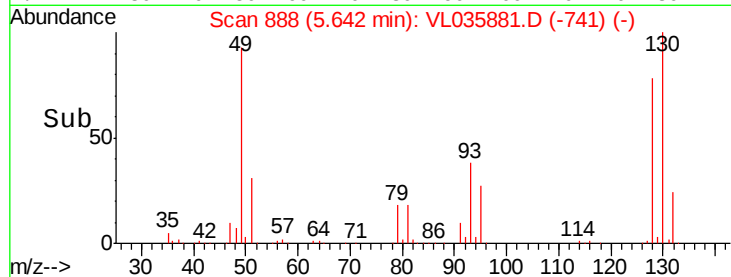
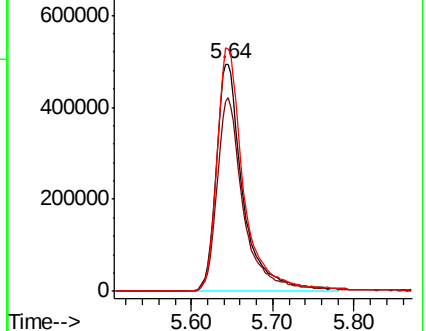
130 108.9 53.7 161.1



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: 0.069 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035881.D

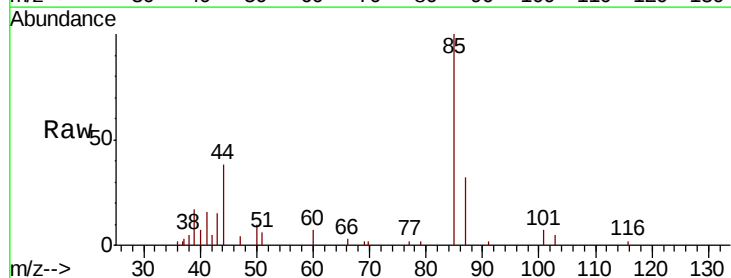
Acq: 6 Nov 2020 5:02

Tgt Ion: 85 Resp: 14947

Ion Ratio Lower Upper

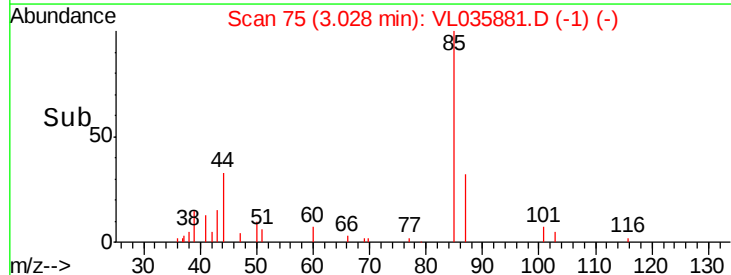
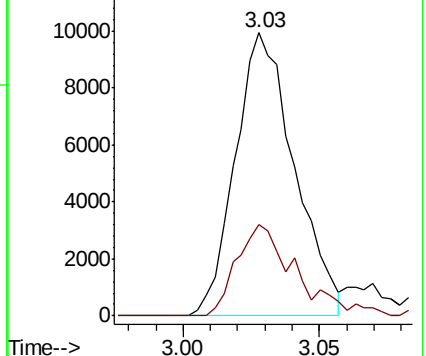
85 100

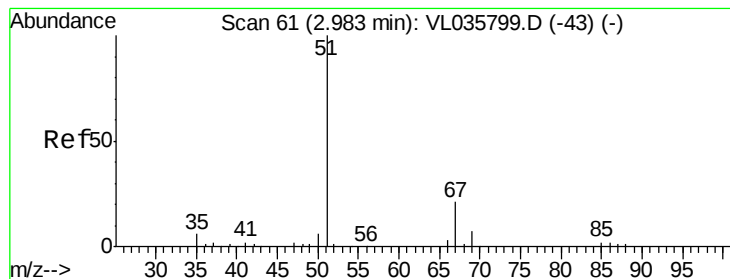
87 32.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.094 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Instrument :

MSVOA_L

ClientSampleId :

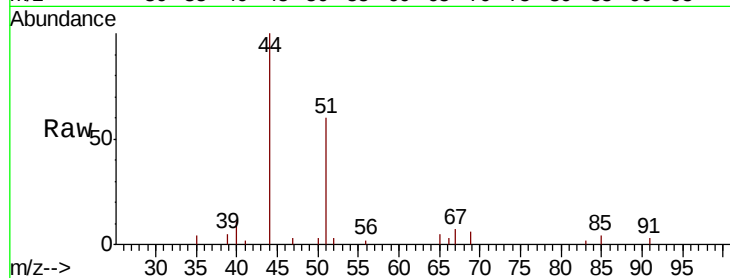
SSSG-2

Tot Ion: 51 Resp: 12936

Ion Ratio Lower Upper

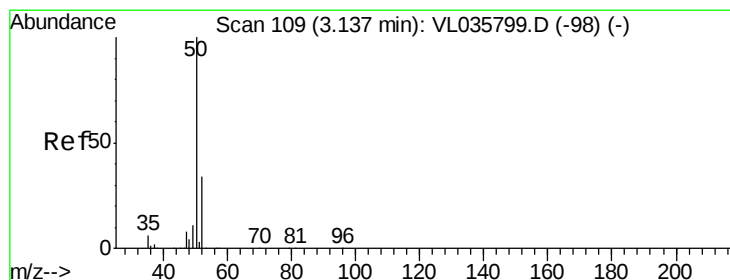
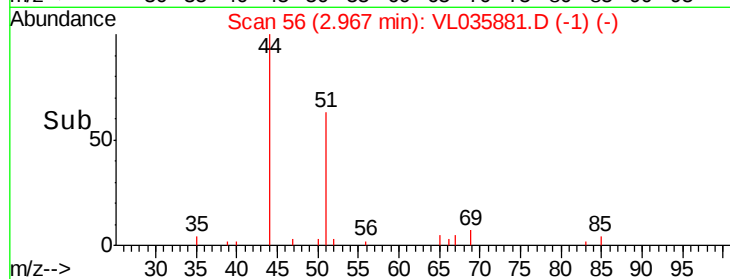
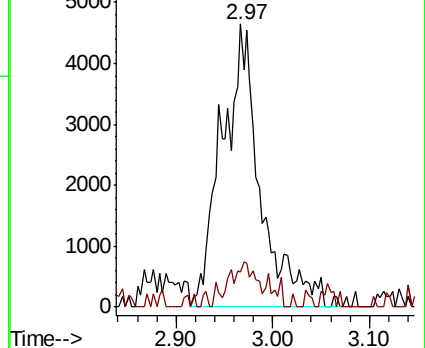
51 100

67 14.7 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035881.D

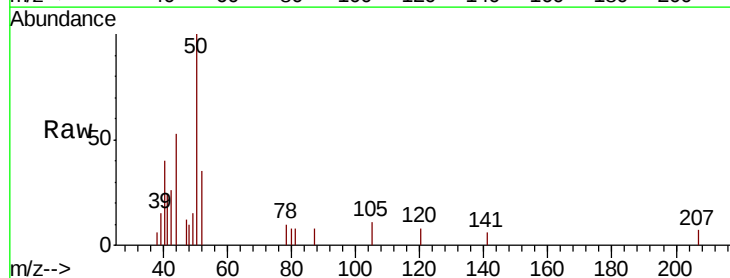
Acq: 6 Nov 2020 5:02

Tgt Ion: 50 Resp: 3818

Ion Ratio Lower Upper

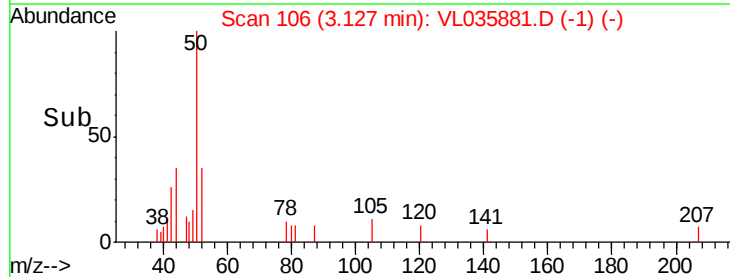
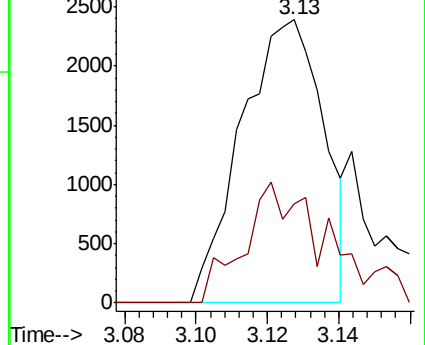
50 100

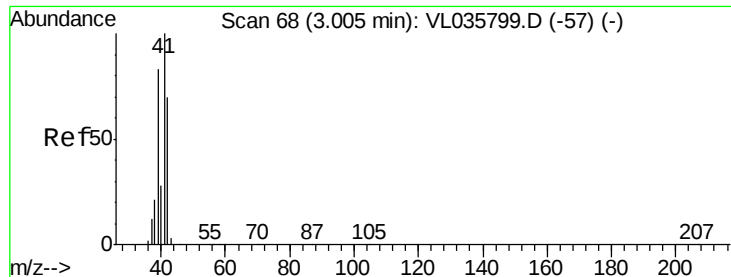
52 34.8 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.232 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Instrument :

MSVOA_L

ClientSampleId :

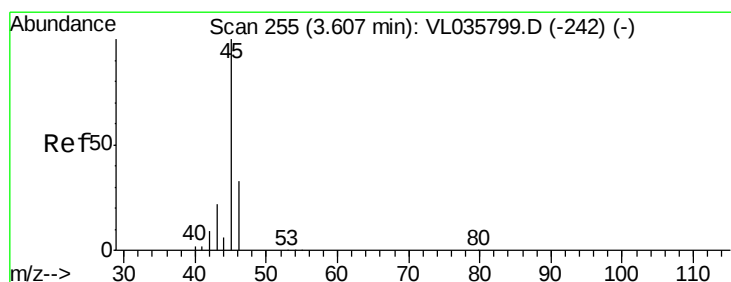
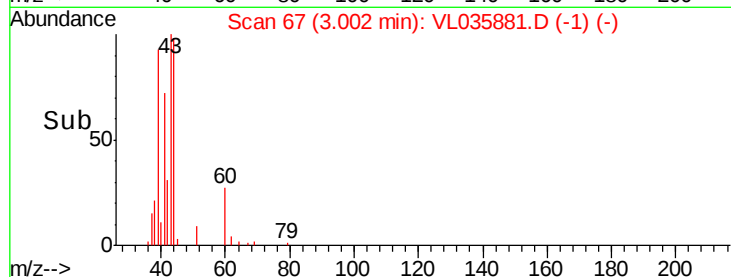
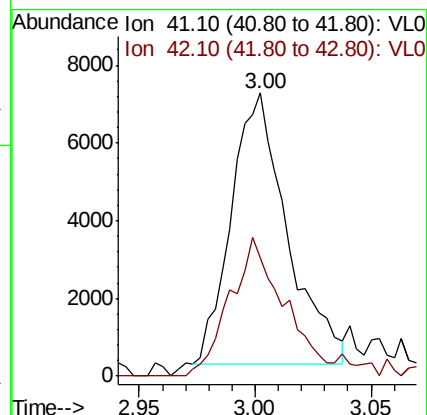
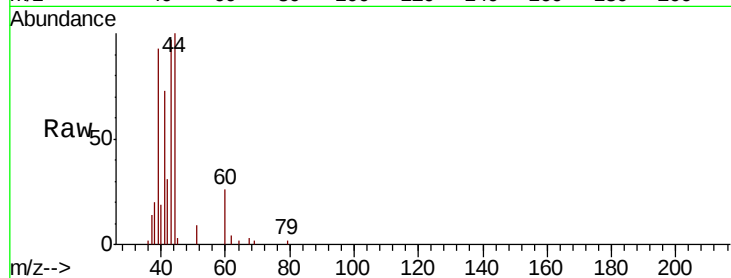
SSSG-2

Tot Ion: 41 Resp: 11651

Ion Ratio Lower Upper

41 100

42 57.4 56.2 84.4



#13

Ethanol

Concen: 9.506 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL035881.D

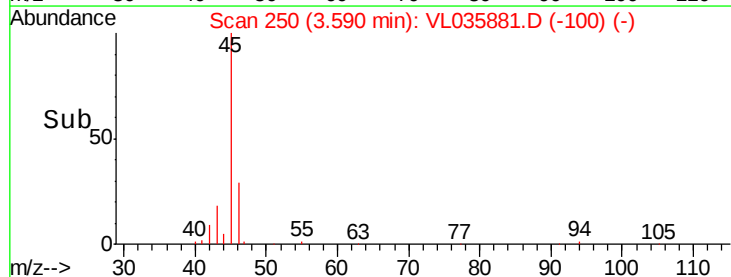
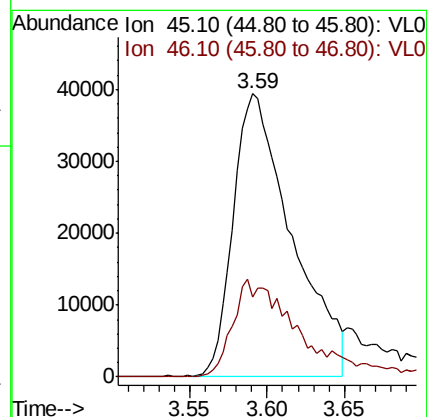
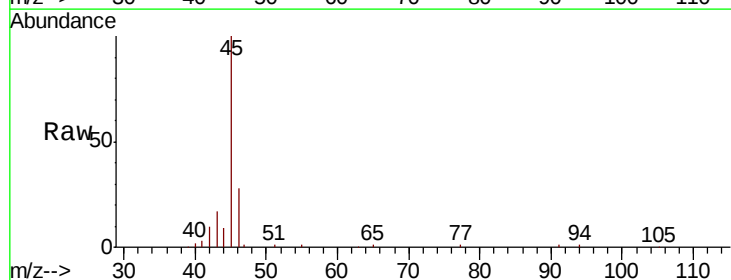
Acq: 6 Nov 2020 5:02

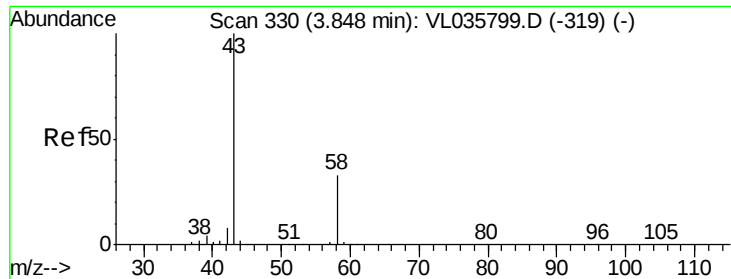
Tgt Ion: 45 Resp: 103785

Ion Ratio Lower Upper

45 100

46 40.4 16.1 64.5





#15

Acetone

Concen: 0.609 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Instrument :

MSVOA_L

ClientSampleId :

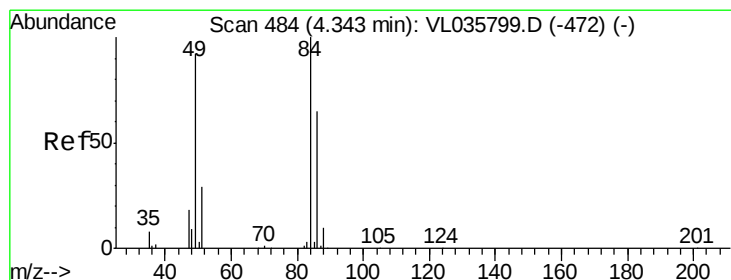
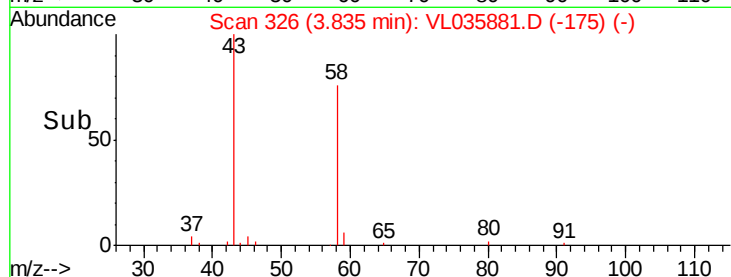
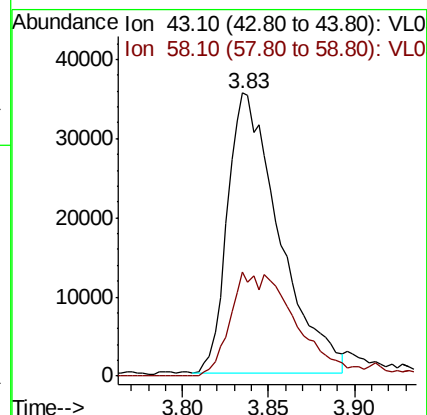
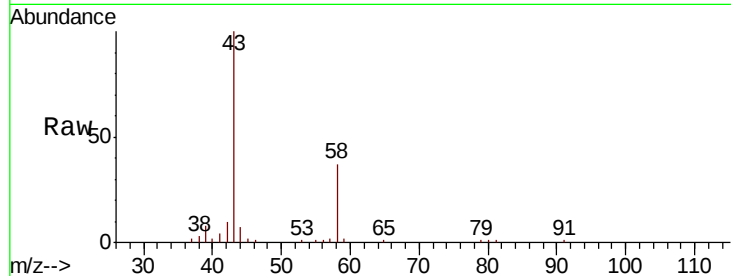
SSSG-2

Tot Ion: 43 Resp: 74740

Ion Ratio Lower Upper

43 100

58 49.8 27.5 41.3#



#20

Methylene Chloride

Concen: 1.884 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Tgt Ion: 84 Resp: 162821

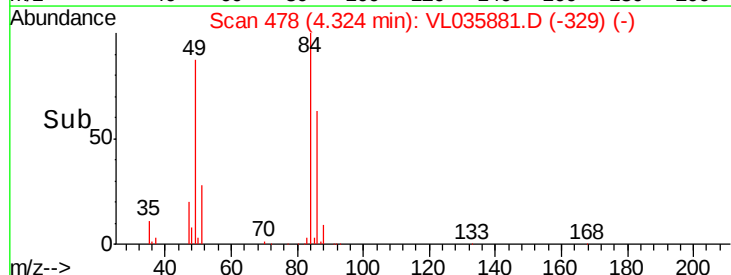
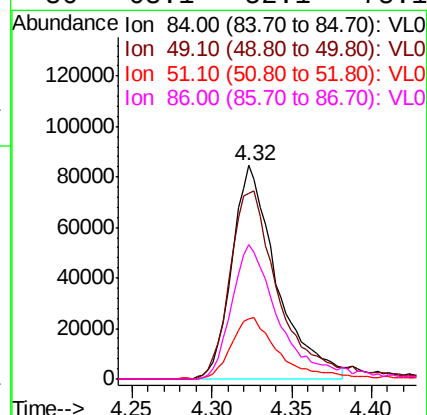
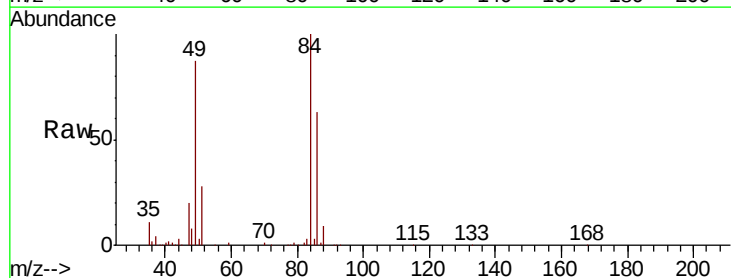
Ion Ratio Lower Upper

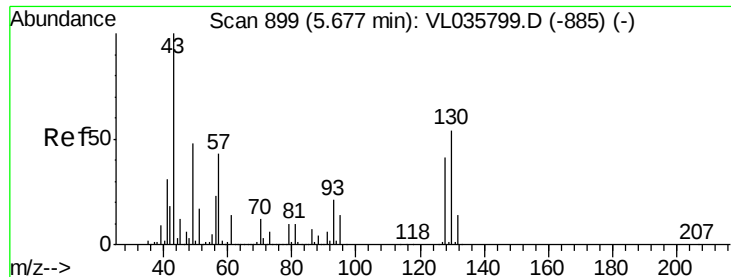
84 100

49 86.4 73.8 110.8

51 27.8 23.0 34.4

86 63.1 52.1 78.1

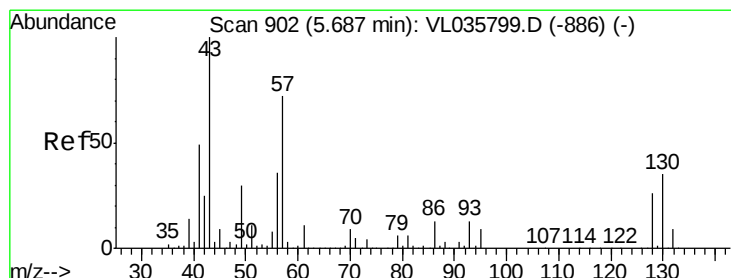
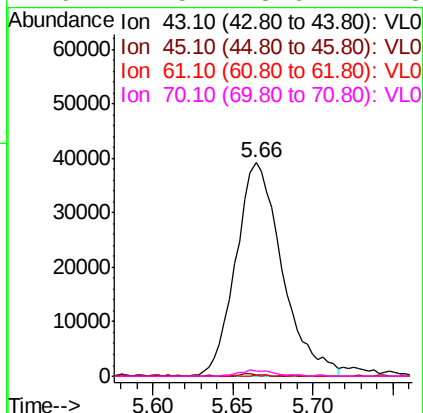
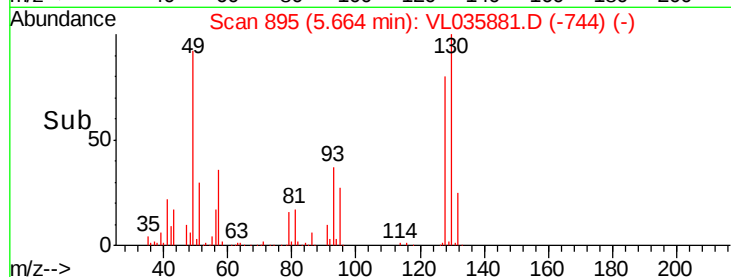
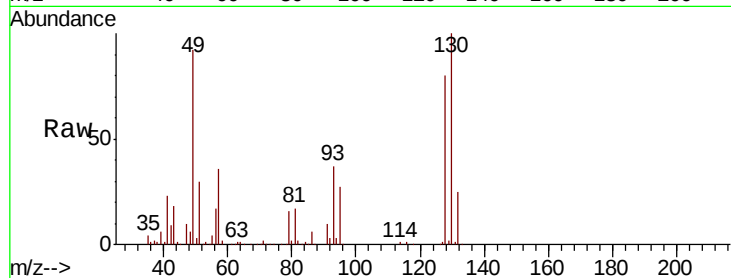




#25
Ethyl Acetate
Concen: 0.321 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035881.D
Acq: 6 Nov 2020 5:02

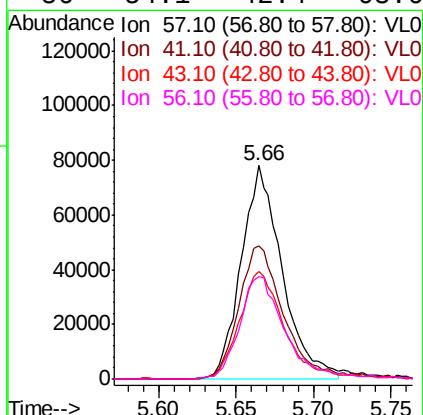
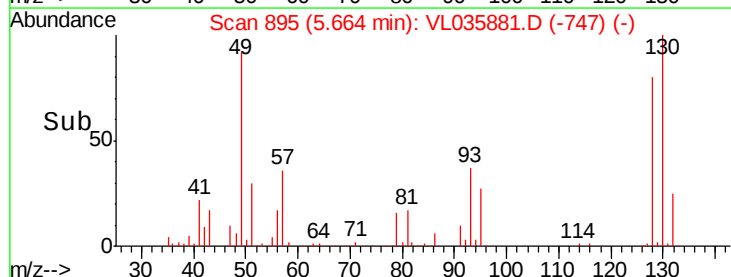
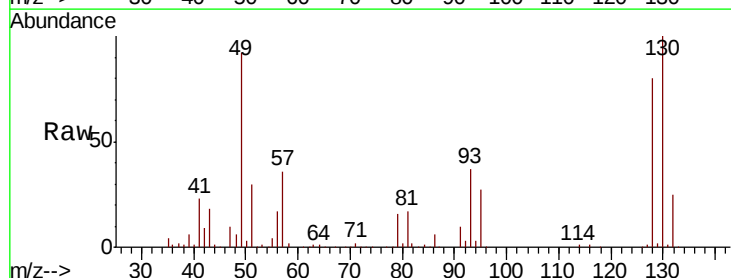
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2

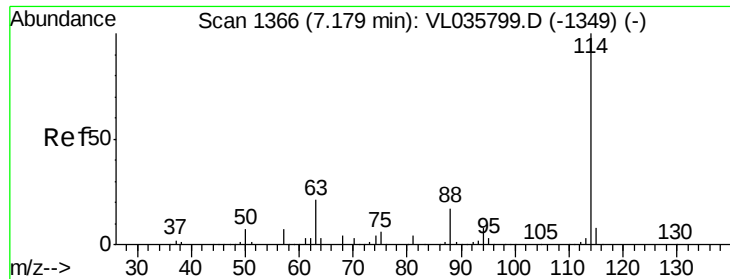
Tot Ion: 43 Resp: 77734
Ion Ratio Lower Upper
43 100
45 0.5 8.5 12.7#
61 0.3 10.7 16.1#
70 2.5 8.6 12.8#



#26
Hexane
Concen: 1.078 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035881.D
Acq: 6 Nov 2020 5:02

Tgt Ion: 57 Resp: 143827
Ion Ratio Lower Upper
57 100
41 70.2 58.9 88.3
43 56.2 150.2 225.2#
56 54.1 42.4 63.6

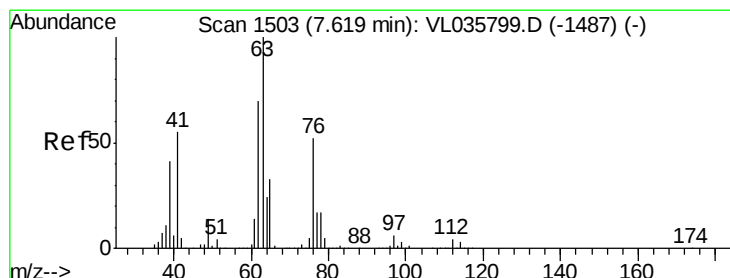
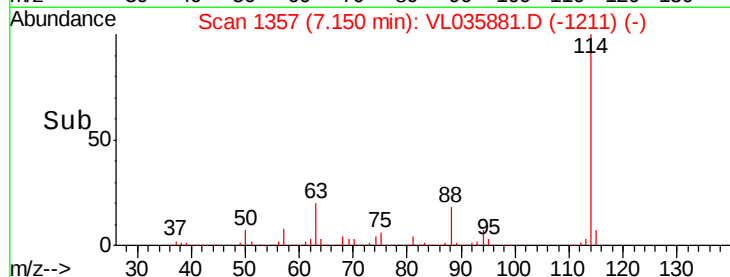
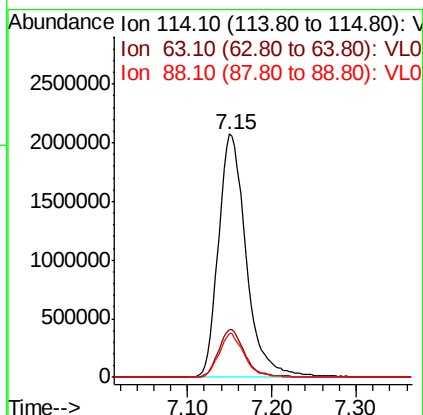
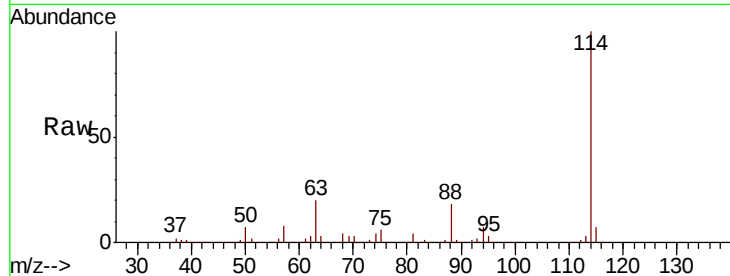




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL035881.D
 Acq: 6 Nov 2020 5:02

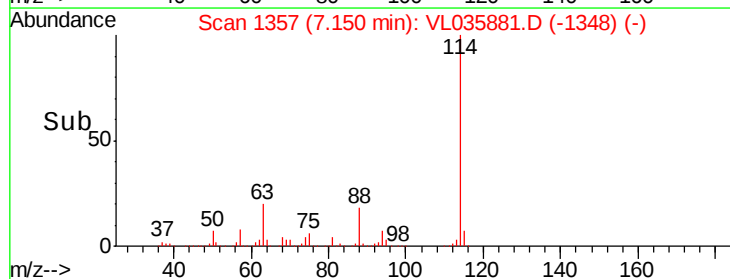
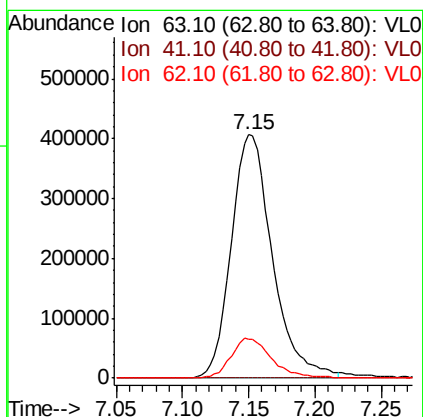
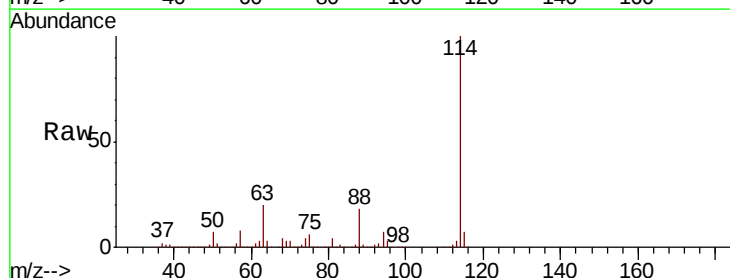
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2

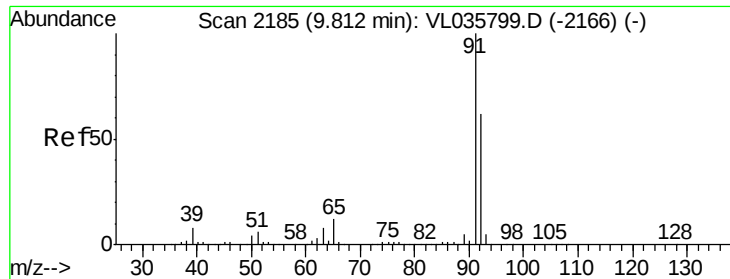
Tot Ion:114 Resp: 4747757
 Ion Ratio Lower Upper
 114 100
 63 18.9 16.1 24.1
 88 16.8 13.7 20.5



#39
 1,2-Dichloropropane
 Concen: 7.385 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.47 min
 Lab File: VL035881.D
 Acq: 6 Nov 2020 5:02

Tgt Ion: 63 Resp: 877610
 Ion Ratio Lower Upper
 63 100
 41 0.0 43.8 65.6#
 62 16.0 56.2 84.2#





#53

Toluene

Concen: 0.049 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Instrument :

MSVOA_L

ClientSampleId :

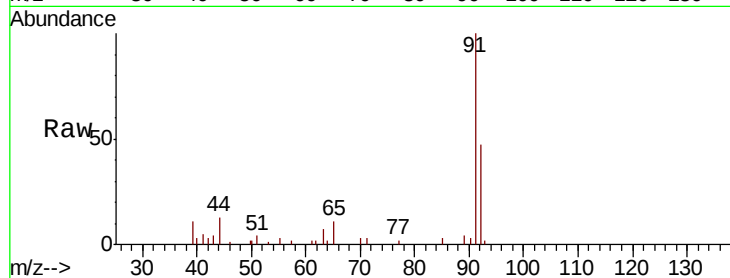
SSSG-2

Tot Ion: 91 Resp: 20888

Ion Ratio Lower Upper

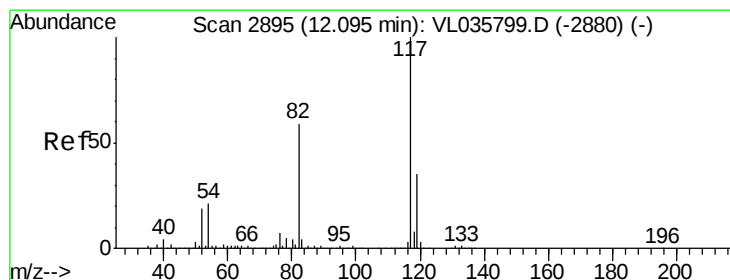
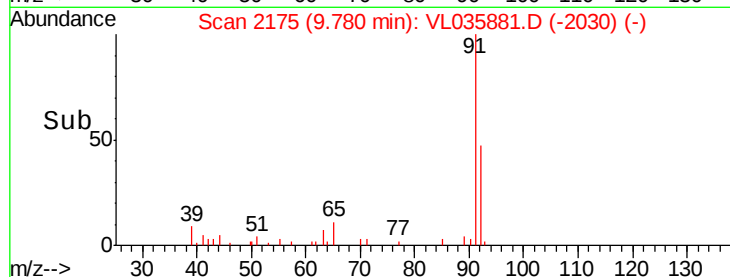
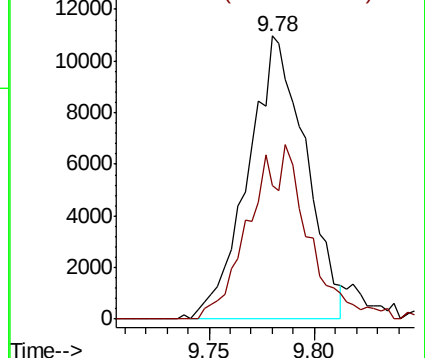
91 100

92 63.2 49.8 74.6



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: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

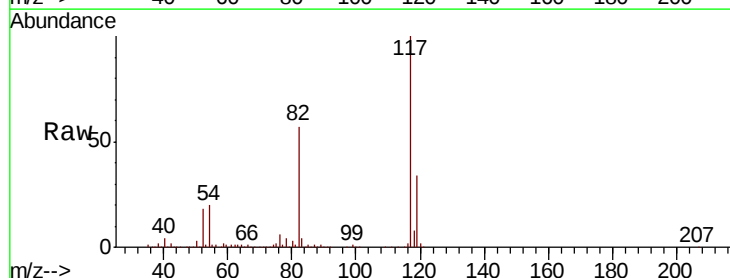
Tgt Ion: 117 Resp: 4319231

Ion Ratio Lower Upper

117 100

82 57.0 50.6 76.0

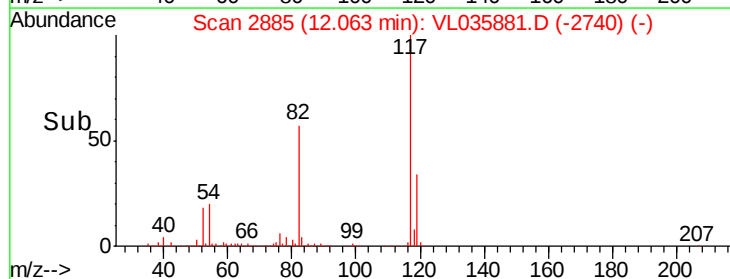
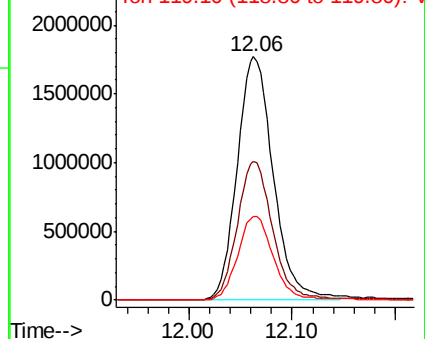
119 34.5 52.6 78.8#

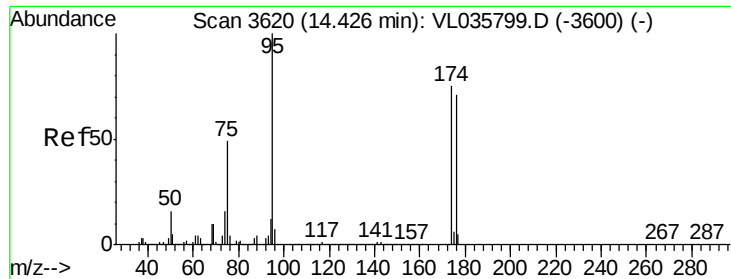


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.834 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL035881.D

Acq: 6 Nov 2020 5:02

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2

Tot Ion: 95 Resp: 3017828

Ion Ratio Lower Upper

95 100

174 76.3 59.8 89.6

175 5.2 4.3 6.5

