

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036705.D
 Acq On : 6 Apr 2021 19:48
 Operator : SY/AP
 Sample : M1929-04 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-IA-04DL

Quant Time: Apr 07 04:27:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1178192	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2851224	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2599127	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2014849	9.73	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%	

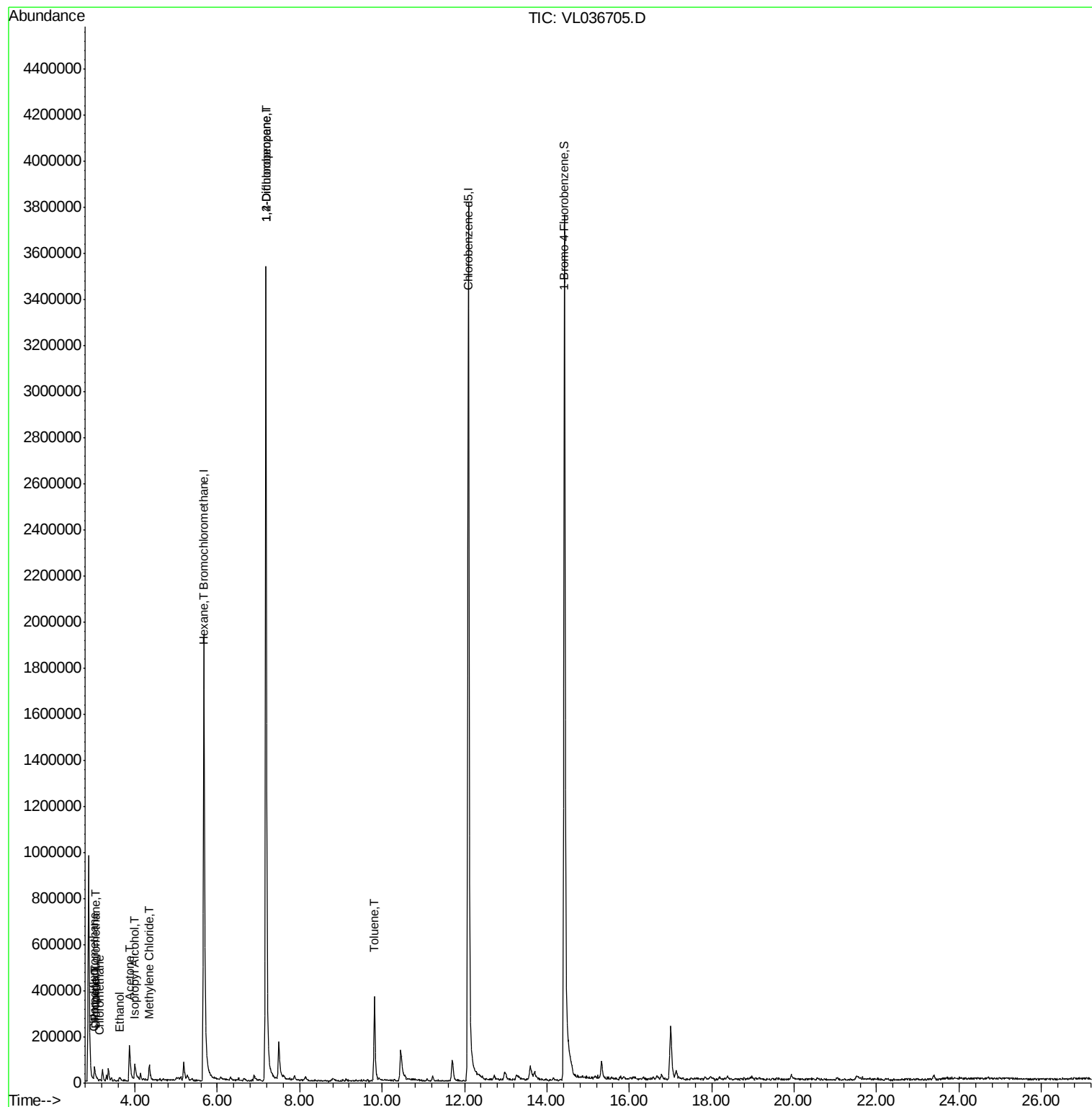
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	6263	0.033	ppbv	88
3) Chlorodifluoromethane	2.99	51	9402	0.043	ppbv #	87
4) Chloromethane	3.14	50	2476	0.032	ppbv	89
9) Propene	3.02	41	16306	0.232	ppbv #	67
13) Ethanol	3.62	45	7490	0.896	ppbv #	34
15) Acetone	3.86	43	205128	1.769	ppbv	93
19) Isopropyl Alcohol	4.00	45	40753	0.639	ppbv #	89
20) Methylene Chloride	4.35	84	15969	0.294	ppbv	89
26) Hexane	5.69	57	7344	0.057	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	757006	7.097	ppbv #	24
53) Toluene	9.81	91	293342	1.048	ppbv	99

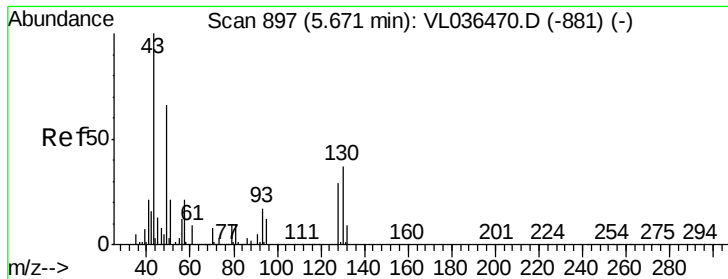
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036705.D

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Instrument :

MSVOA_L

ClientSampleId :

FS-IA-04DL

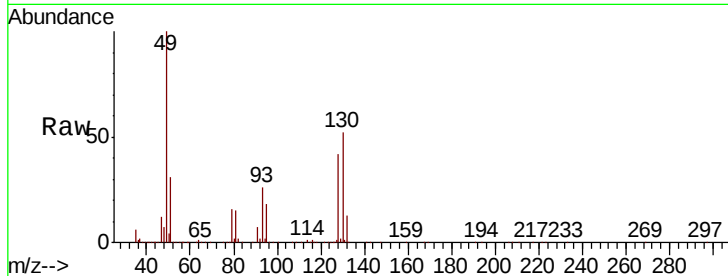
Tot Ion: 49 Resp: 1178192

Ion Ratio Lower Upper

49 100

128 47.4 23.5 70.6

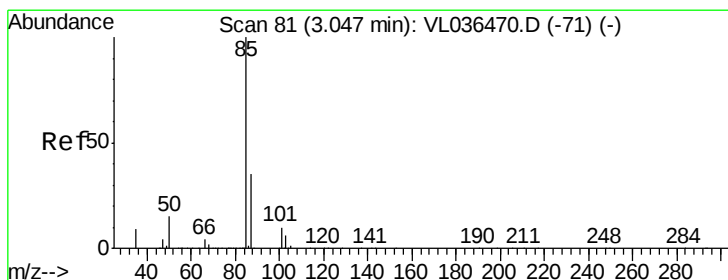
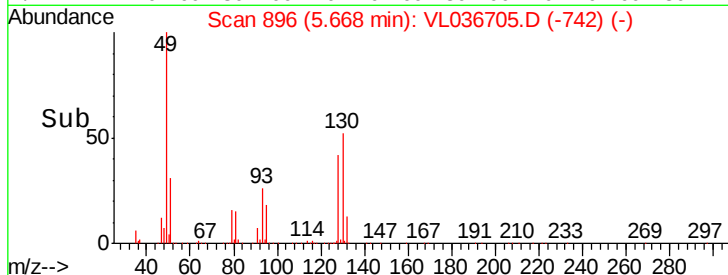
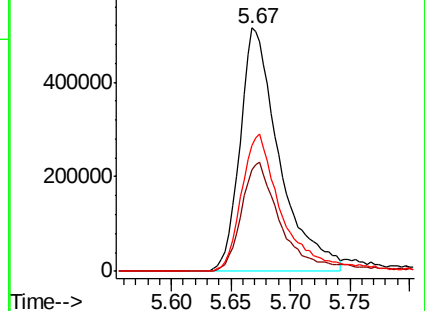
130 58.5 29.1 87.4



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: 0.033 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036705.D

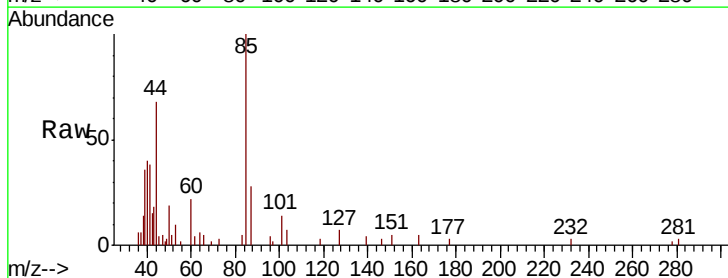
Acq: 6 Apr 2021 19:48

Tgt Ion: 85 Resp: 6263

Ion Ratio Lower Upper

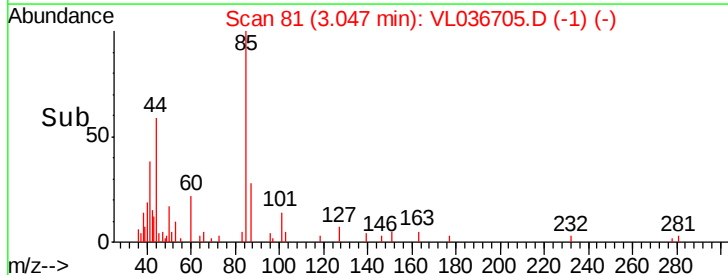
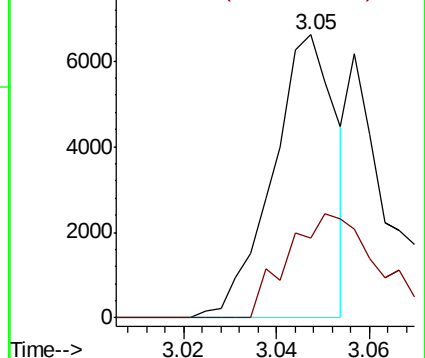
85 100

87 28.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

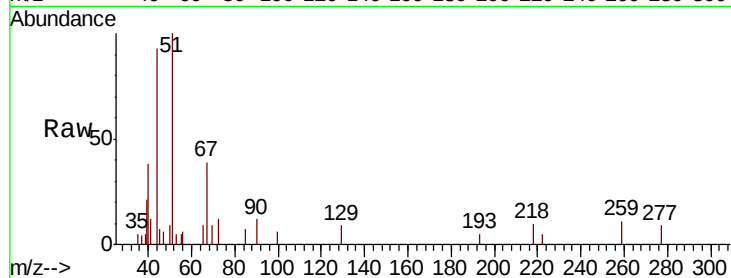
FS-IA-04DL

Tot Ion: 51 Resp: 9402

Ion Ratio Lower Upper

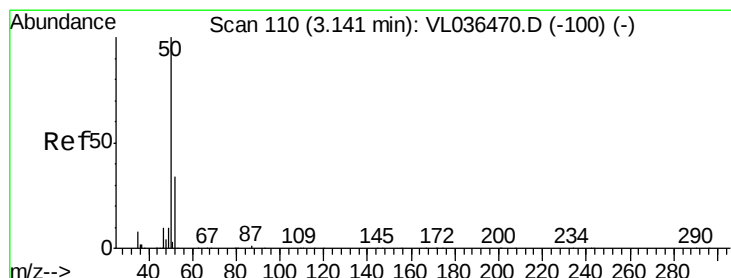
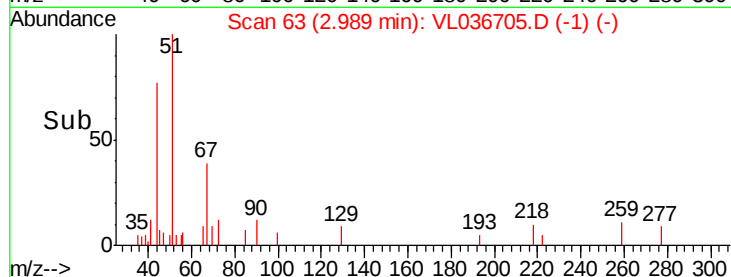
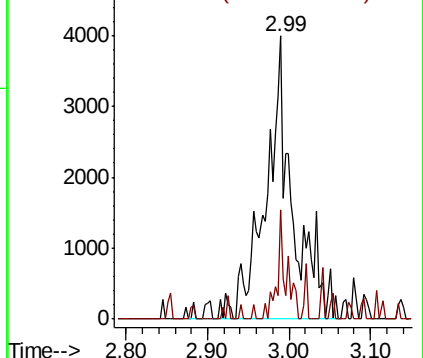
51 100

67 12.7 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036705.D

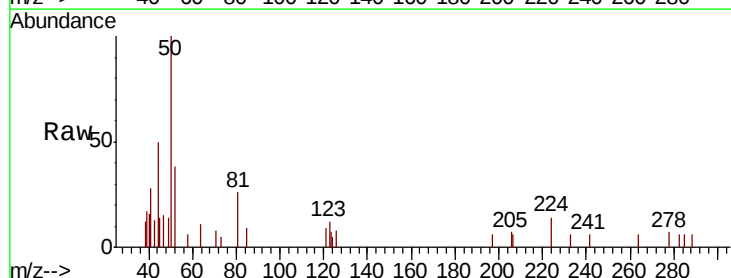
Acq: 6 Apr 2021 19:48

Tgt Ion: 50 Resp: 2476

Ion Ratio Lower Upper

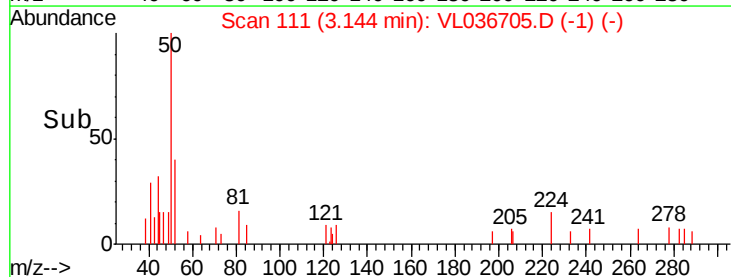
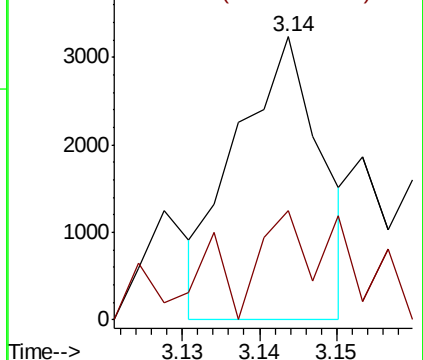
50 100

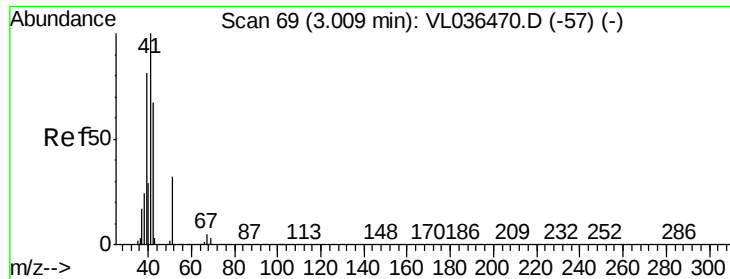
52 39.9 27.0 40.6



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: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

Instrument :

MSVOA_L

ClientSampleID :

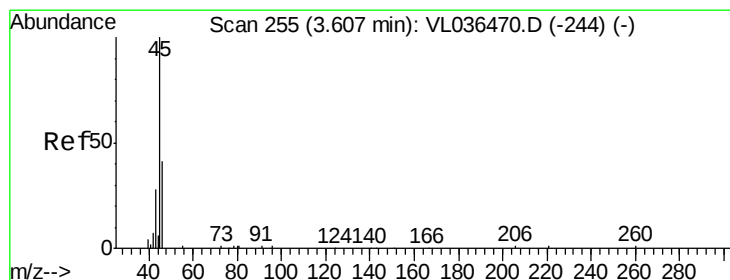
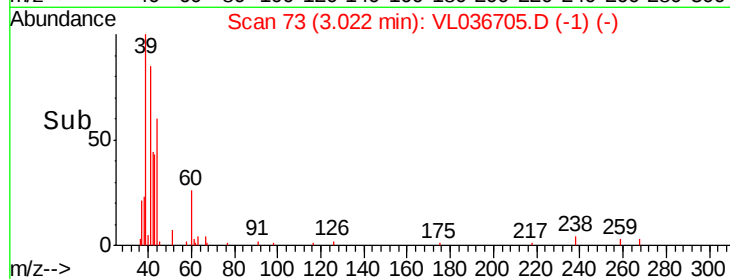
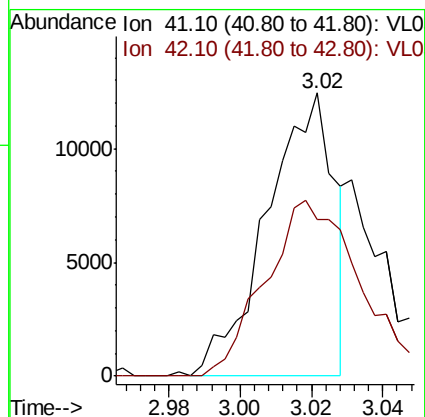
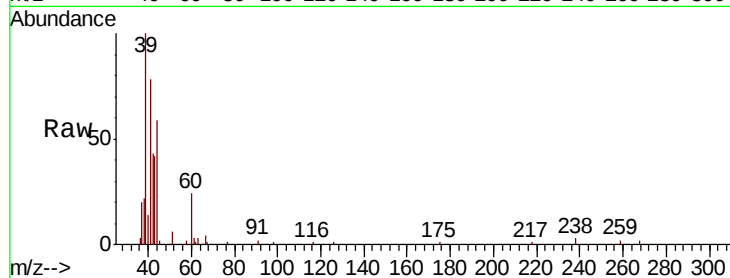
FS-IA-04DL

Tot Ion: 41 Resp: 16306

Ion Ratio Lower Upper

41 100

42 98.3 57.0 85.4#



#13

Ethanol

Concen: 0.896 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036705.D

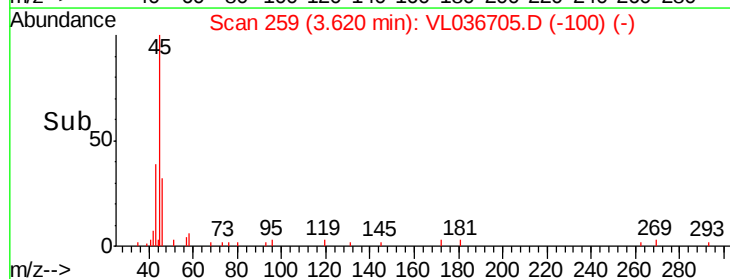
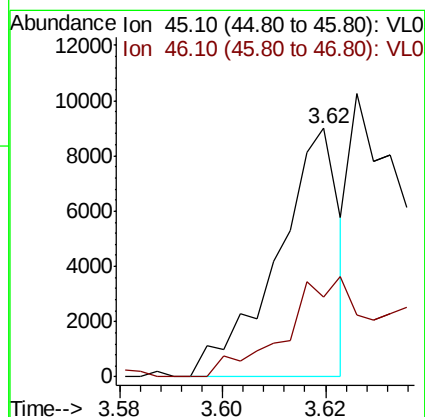
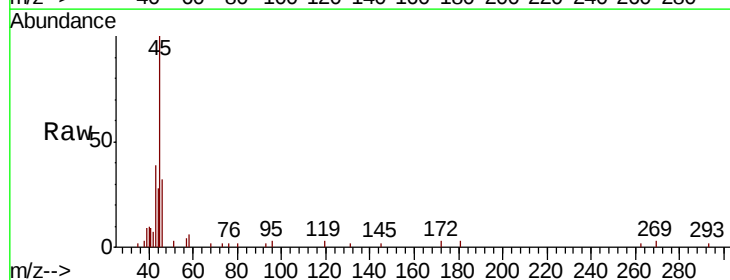
Acq: 6 Apr 2021 19:48

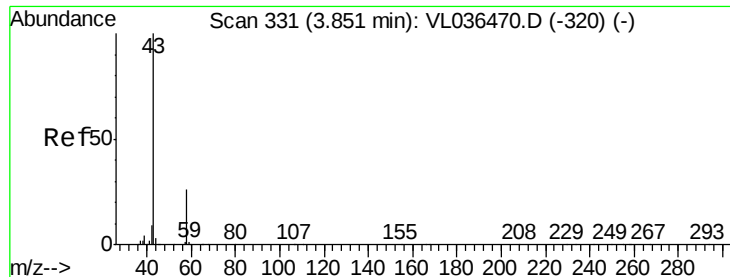
Tgt Ion: 45 Resp: 7490

Ion Ratio Lower Upper

45 100

46 0.0 16.6 66.2#





#15

Acetone

Concen: 1.769 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

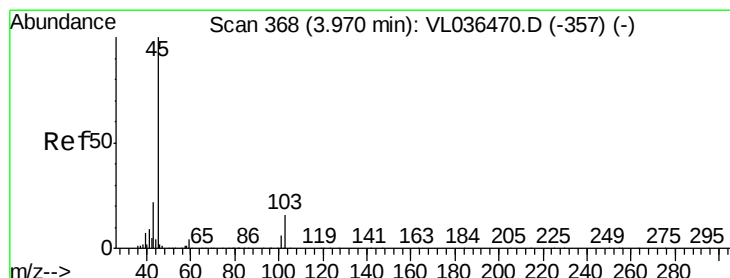
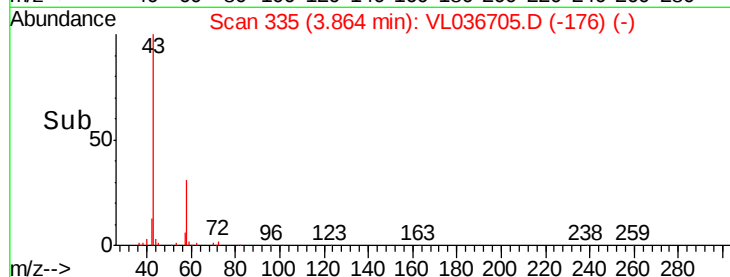
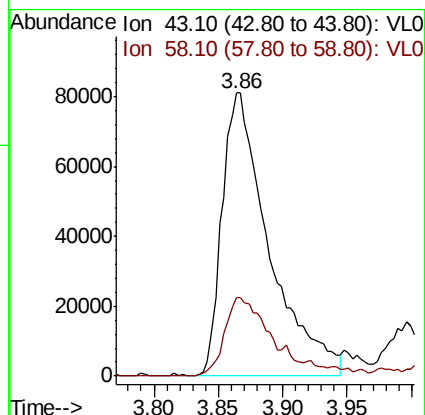
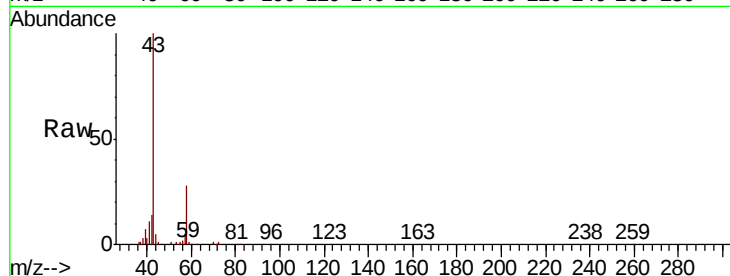
FS-IA-04DL

Tot Ion: 43 Resp: 205128

Ion Ratio Lower Upper

43 100

58 30.2 21.2 31.8



#19

Isopropyl Alcohol

Concen: 0.639 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.03 min

Lab File: VL036705.D

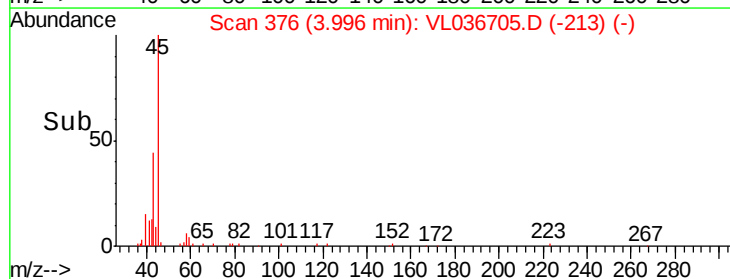
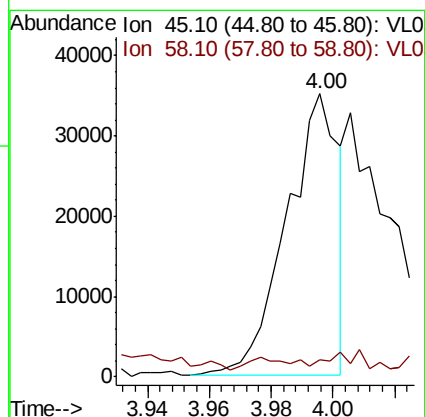
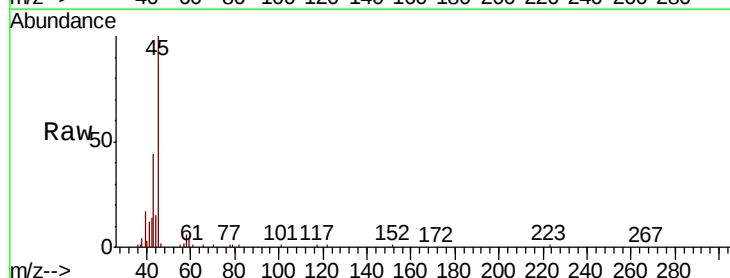
Acq: 6 Apr 2021 19:48

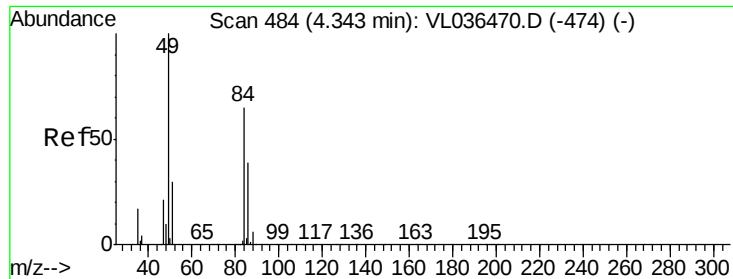
Tgt Ion: 45 Resp: 40753

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#

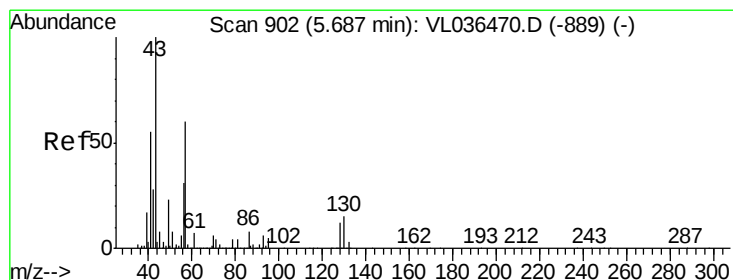
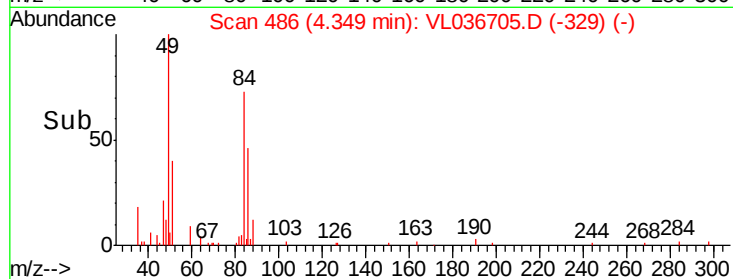
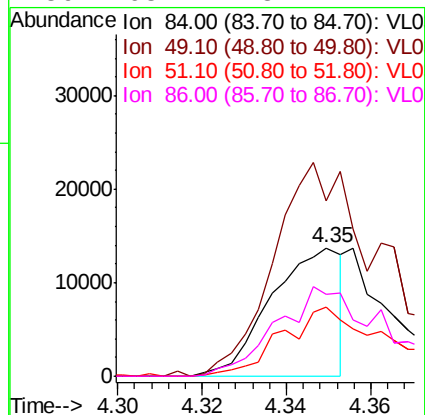
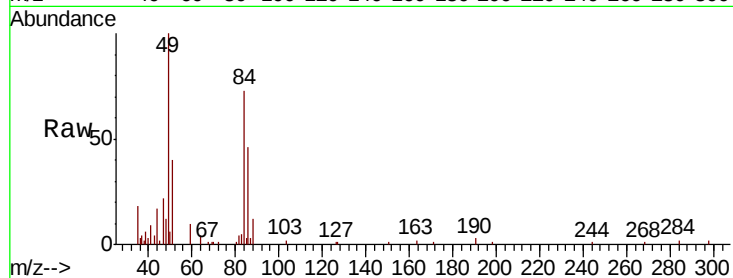




#20
Methvlene Chloride
Concen: 0.294 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036705.D
Acq: 6 Apr 2021 19:48

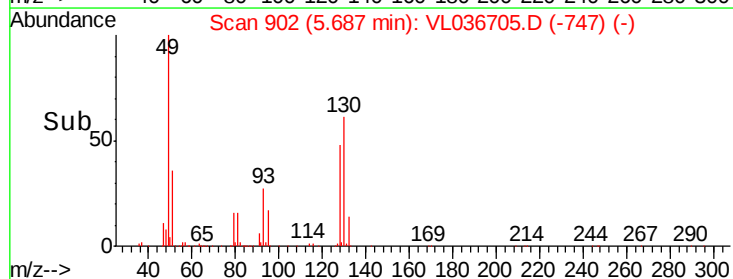
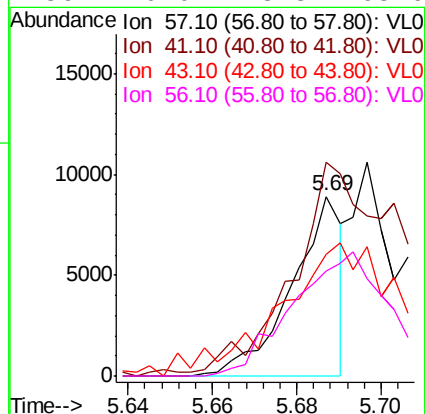
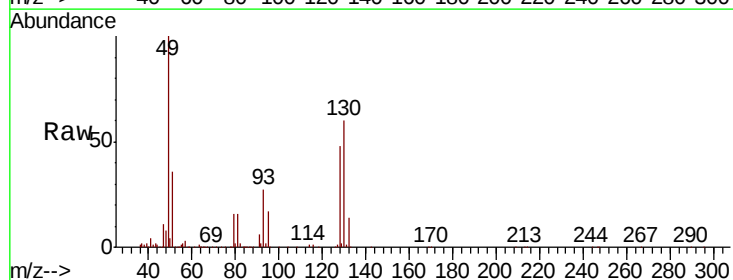
Instrument :
MSVOA_L
ClientSampleId :
FS-IA-04DL

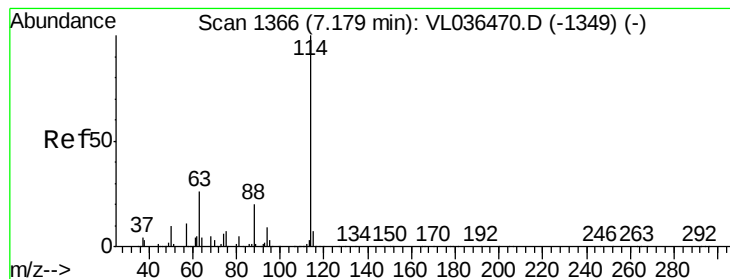
Tot Ion:	84	Resp:	15969
Ion	Ratio	Lower	Upper
84	100		
49	137.1	122.9	184.3
51	54.3	36.9	55.3
86	63.7	48.2	72.4



#26
Hexane
Concen: 0.057 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036705.D
Acq: 6 Apr 2021 19:48

Tgt Ion:	57	Resp:	7344
Ion	Ratio	Lower	Upper
57	100		
41	272.5	77.2	115.8#
43	0.0	173.8	260.6#
56	0.0	43.8	65.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

FS-IA-04DL

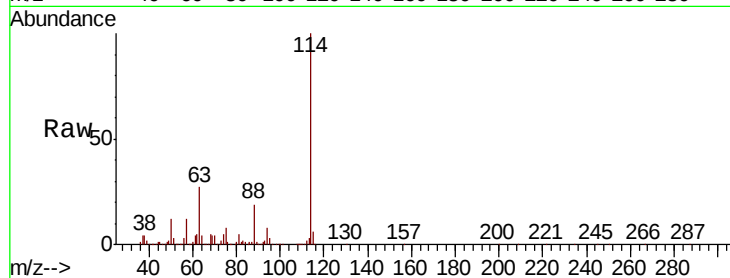
Tot Ion:114 Resp: 2851224

Ion Ratio Lower Upper

114 100

63 27.5 22.4 33.6

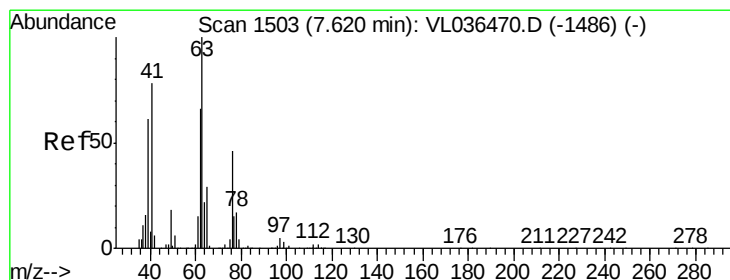
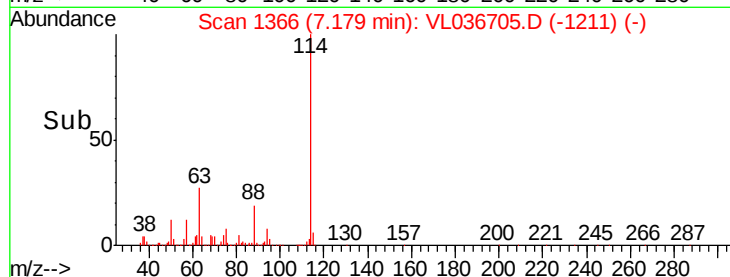
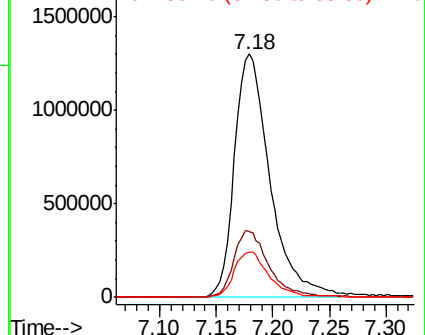
88 19.0 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 7.097 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

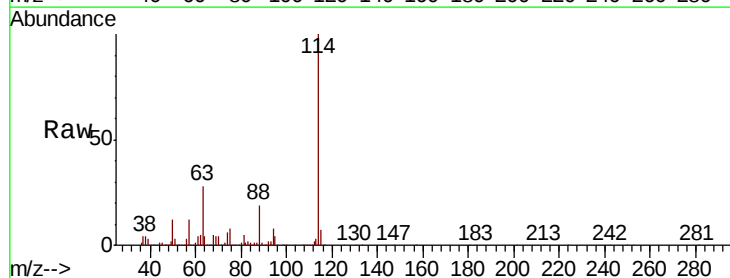
Tgt Ion: 63 Resp: 757006

Ion Ratio Lower Upper

63 100

41 0.2 62.4 93.6#

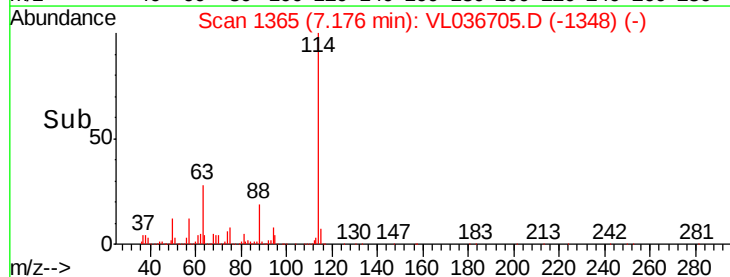
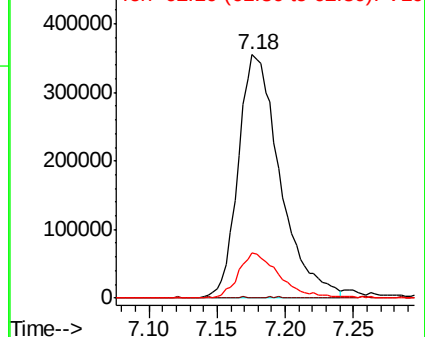
62 18.3 52.8 79.2#

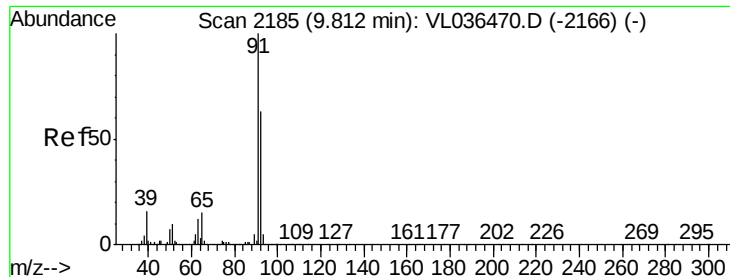


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 1.048 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

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ClientSampleId :

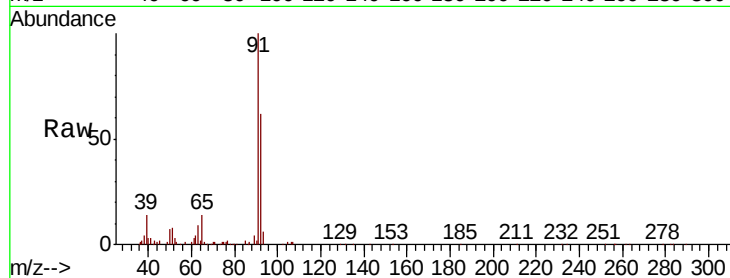
FS-IA-04DL

Tot Ion: 91 Resp: 293342

Ion Ratio Lower Upper

91 100

92 62.1 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

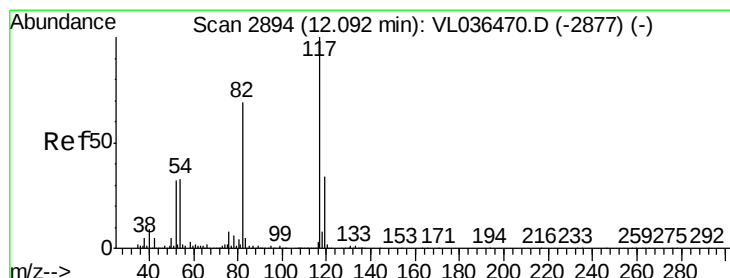
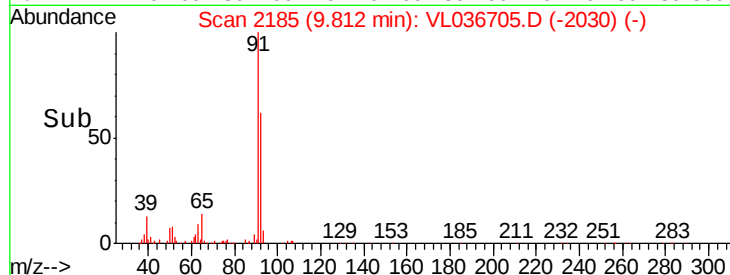
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

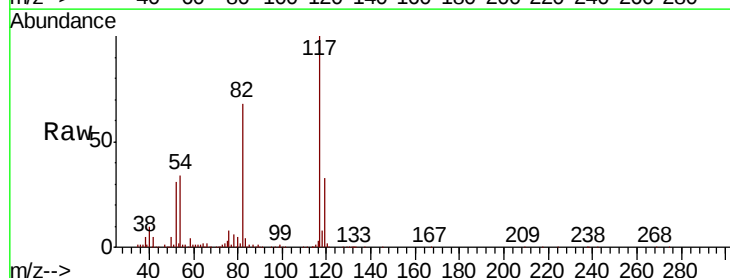
Tgt Ion: 117 Resp: 2599127

Ion Ratio Lower Upper

117 100

82 69.2 57.4 86.0

119 32.9 47.4 71.0#



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

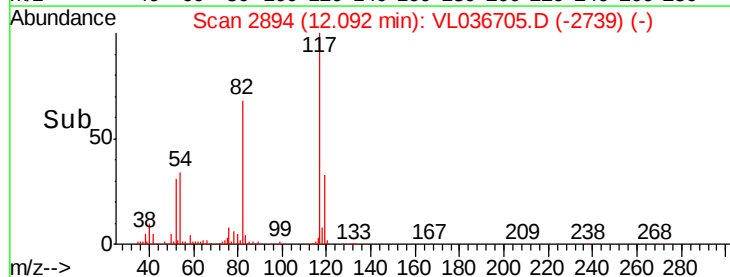
12.09

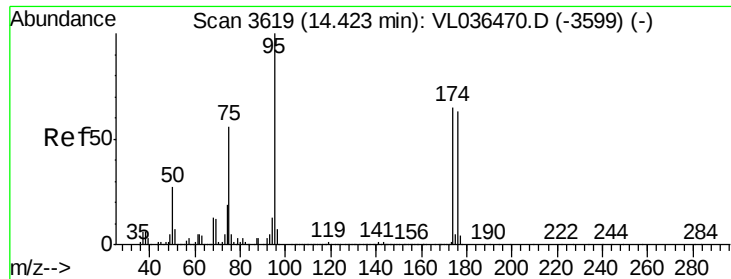
1000000

500000

0

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 9.726 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036705.D

Acq: 6 Apr 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

FS-IA-04DL

Tot Ion: 95 Resp: 2014849

Ion Ratio Lower Upper

95 100

174 66.1 51.0 76.6

175 4.6 3.9 5.9

