

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035173.D
 Acq On : 8 Jul 2020 5:47
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Jul 08 06:57:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 06:17:02 2020
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1187630	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2907473	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2655370	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2244537	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

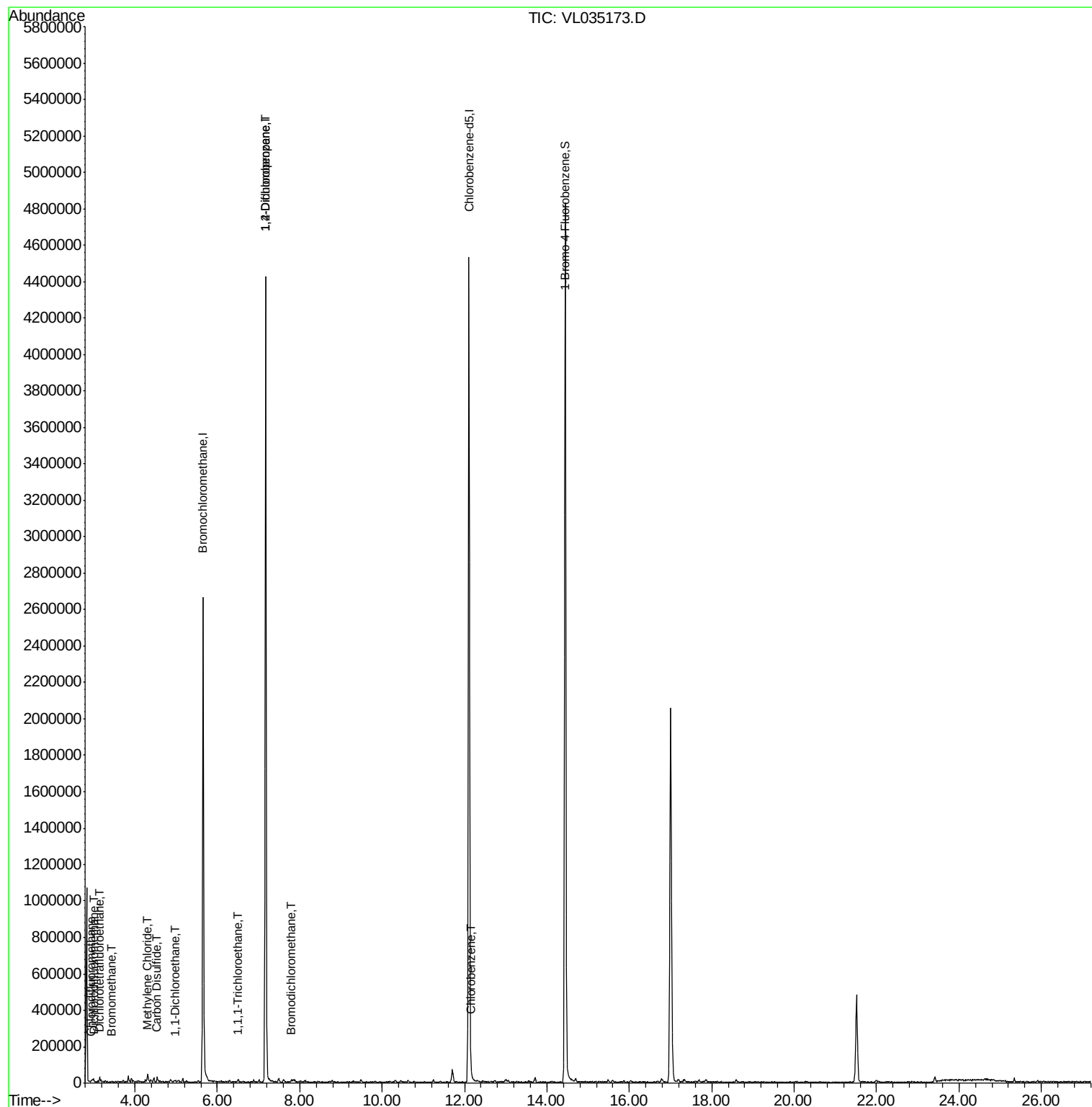
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	8991	0.056	ppbv	98
3) Chlorodifluoromethane	2.94	51	5678	0.044	ppbv	97
6) Bromomethane	3.44	94	2084	0.048	ppbv #	69
8) Dichlorotetrafluoroethane	3.15	85	6703	0.039	ppbv #	68
20) Methylene Chloride	4.32	84	5960	0.101	ppbv #	71
24) 1,1-Dichloroethane	4.98	63	5599	0.038	ppbv #	83
27) Carbon Disulfide	4.53	76	3828	0.031	ppbv #	1
32) 1,1,1-Trichloroethane	6.50	97	5749	0.034	ppbv #	59
39) 1,2-Dichloropropane	7.17	63	788728	9.084	ppbv #	22
42) Bromodichloromethane	7.79	83	5919	0.032	ppbv #	57
57) Chlorobenzene	12.16	112	8851	0.045	ppbv #	51

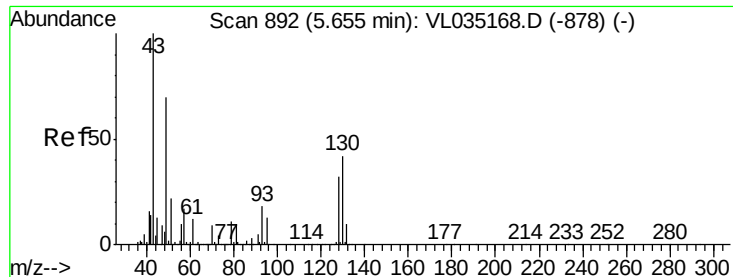
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
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VSTDIC0.03

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 06:17:02 2020
QLast Update : Wed Jul 08 06:17:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

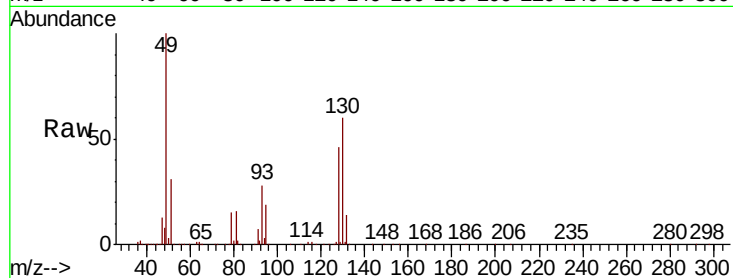
Tot Ion: 49 Resp: 1187630

Ion Ratio Lower Upper

49 100

128 48.9 23.8 71.4

130 62.7 29.9 89.8



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

5.65

800000

600000

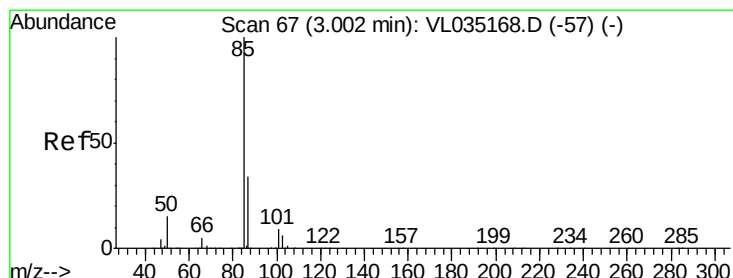
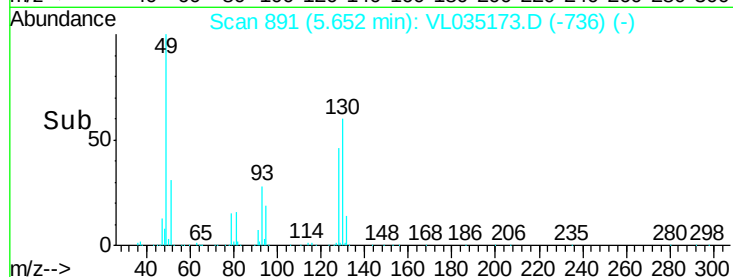
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035173.D

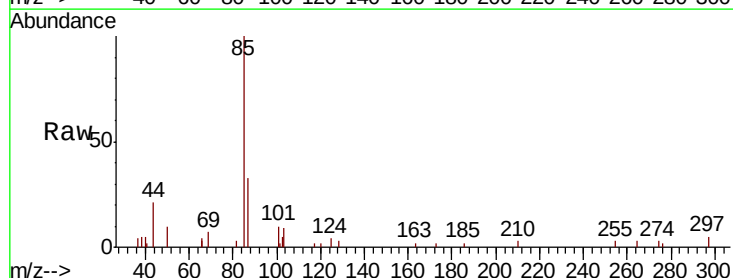
Acq: 8 Jul 2020 5:47

Tgt Ion: 85 Resp: 8991

Ion Ratio Lower Upper

85 100

87 32.5 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

10000

8000

6000

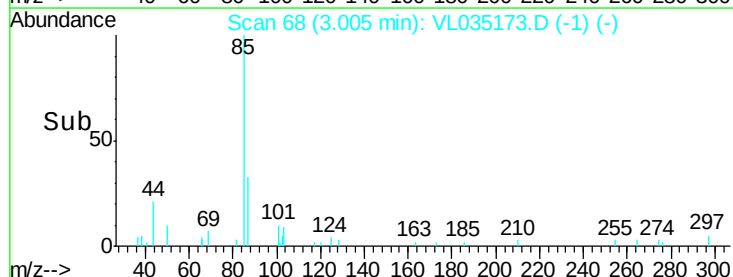
4000

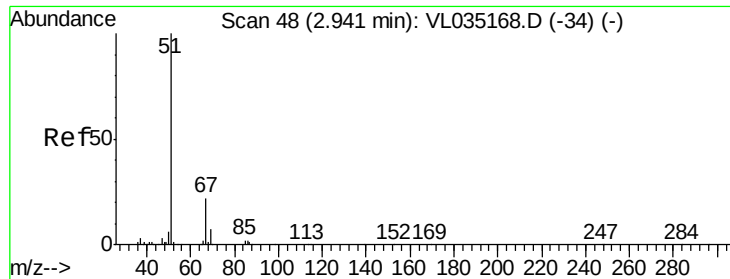
2000

0

2.96 2.98 3.00 3.02 3.04

Time-->

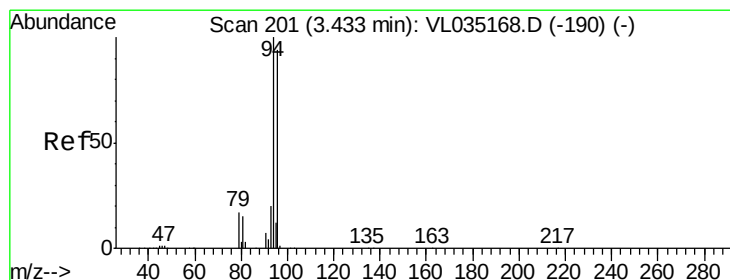
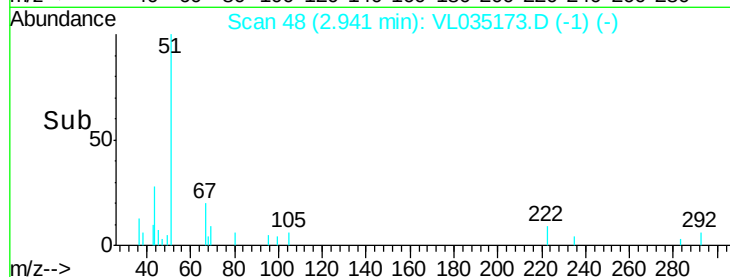
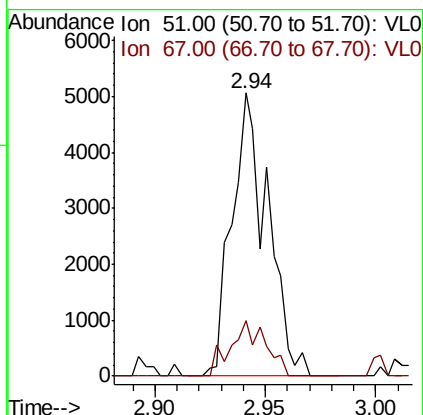
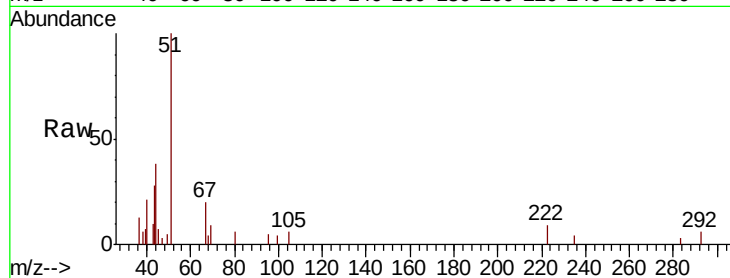




#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 2.94 min Scan# 48
Delta R.T. 0.00 min
Lab File: VL035173.D
Acq: 8 Jul 2020 5:47

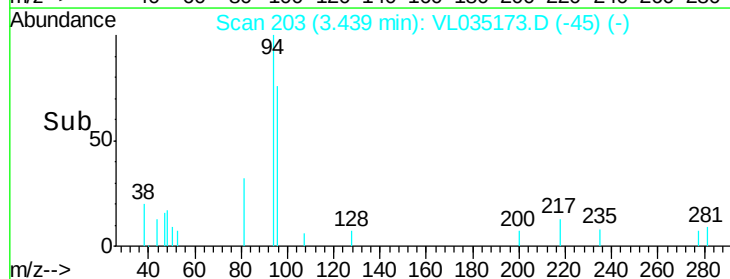
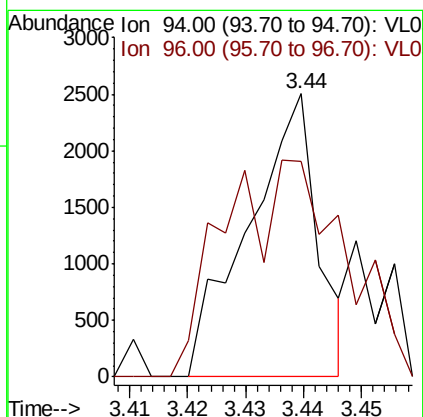
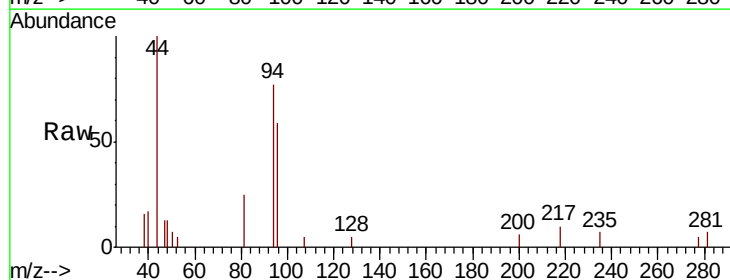
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

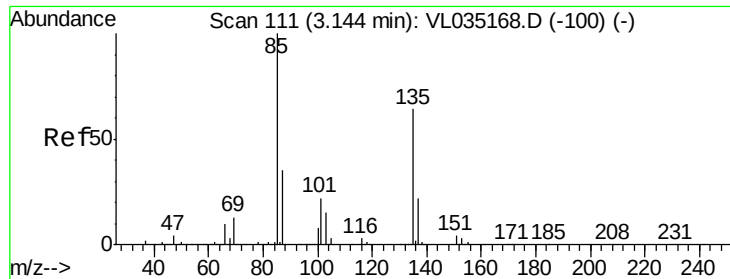
Tot Ion: 51 Resp: 5678
Ion Ratio Lower Upper
51 100
67 19.5 16.6 24.8



#6
Bromomethane
Concen: 0.048 ppbv
RT: 3.44 min Scan# 203
Delta R.T. 0.01 min
Lab File: VL035173.D
Acq: 8 Jul 2020 5:47

Tgt Ion: 94 Resp: 2084
Ion Ratio Lower Upper
94 100
96 63.6 74.8 112.2#





#8

Dichlorotetrafluoroethane

Concen: 0.039 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Instrument :

MSVOA_L

ClientSampleId :

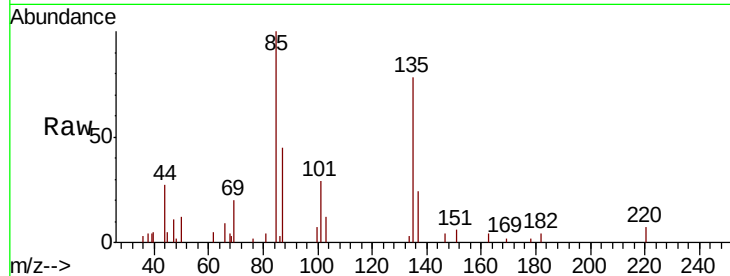
VSTDIC0.03

Tot Ion: 85 Resp: 6703

Ion Ratio Lower Upper

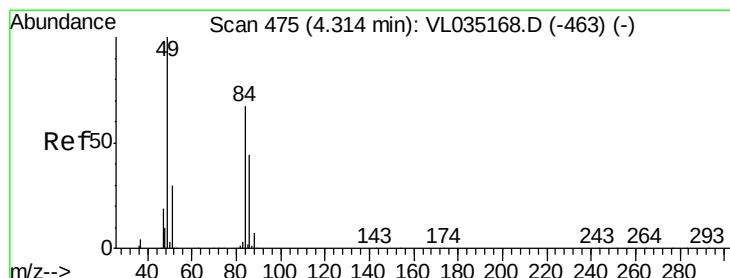
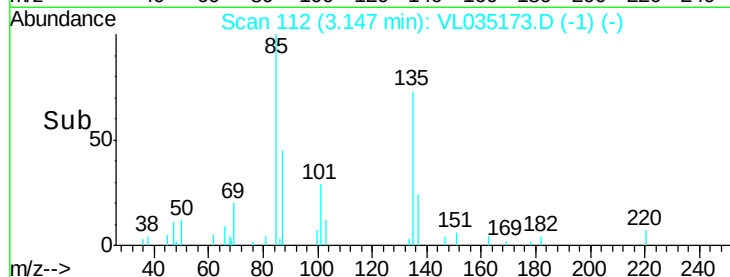
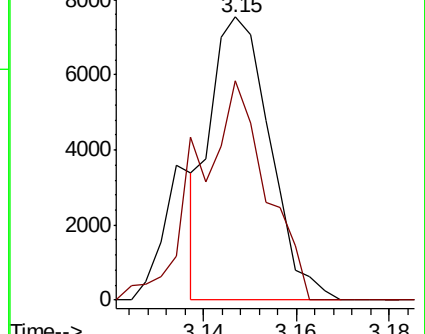
85 100

135 90.0 52.1 78.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#20

Methylene Chloride

Concen: 0.101 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Tgt Ion: 84 Resp: 5960

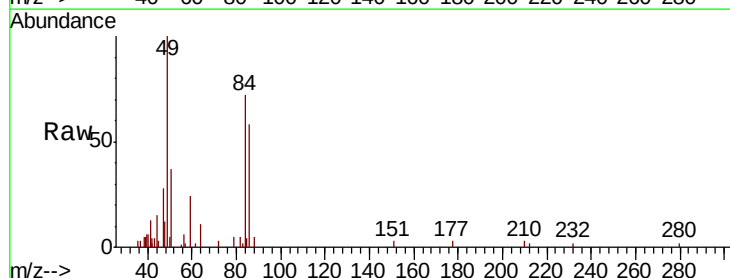
Ion Ratio Lower Upper

84 100

49 164.6 119.4 179.0

51 92.5 36.6 55.0#

86 96.1 52.5 78.7#

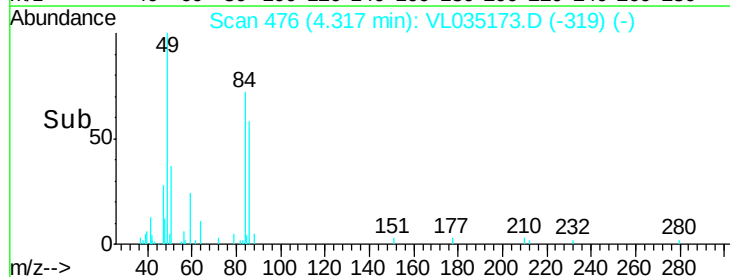
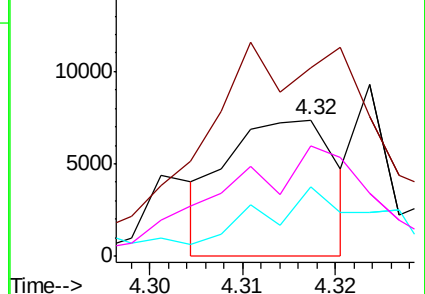


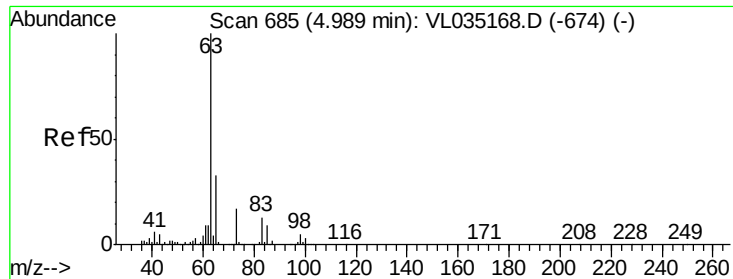
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

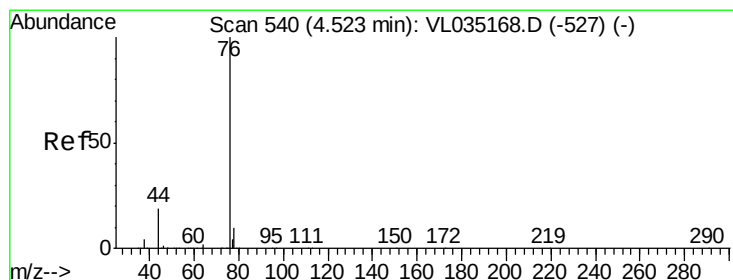
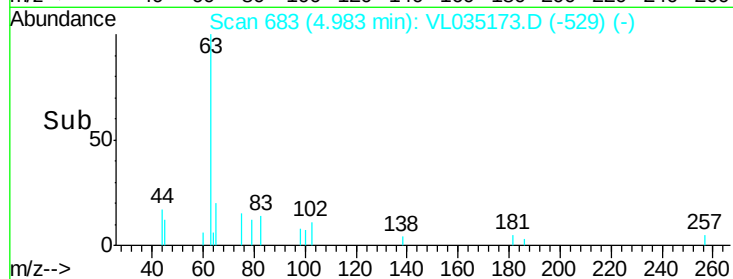
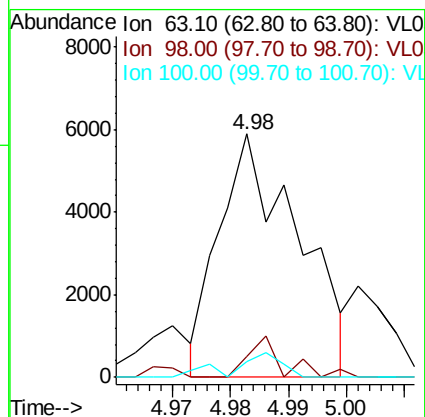
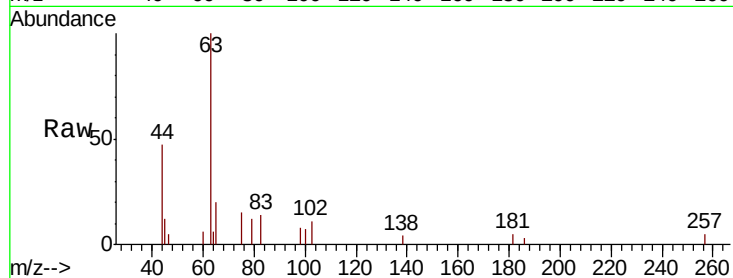




#24
 1,1-Dichloroethane
 Concen: 0.038 ppbv
 RT: 4.98 min Scan# 683
 Delta R.T. -0.01 min
 Lab File: VL035173.D
 Acq: 8 Jul 2020 5:47

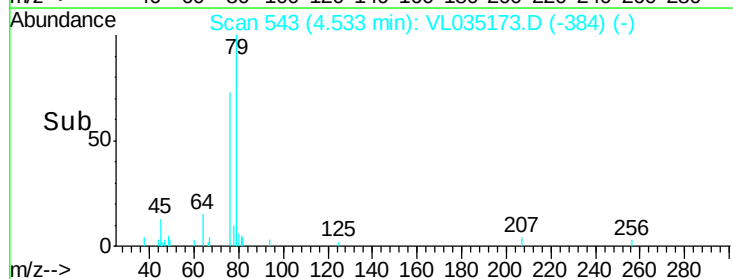
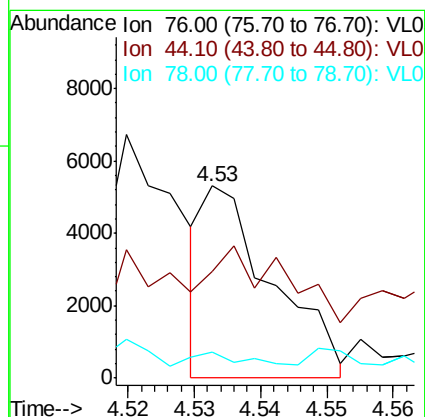
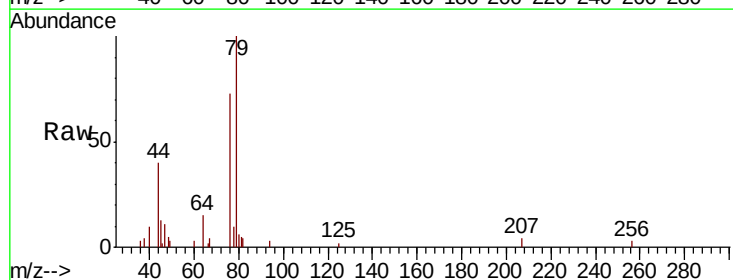
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

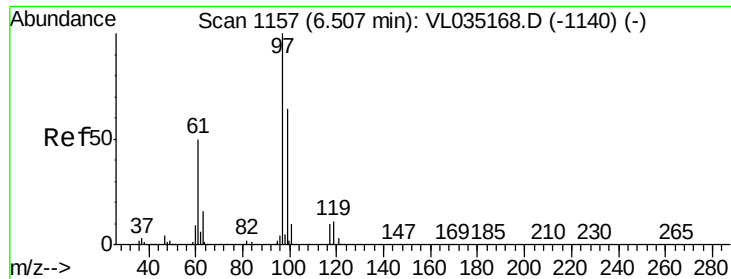
Tot Ion: 63 Resp: 5599
 Ion Ratio Lower Upper
 63 100
 98 10.4 2.4 7.1#
 100 8.1 1.4 4.0#



#27
 Carbon Disulfide
 Concen: 0.031 ppbv
 RT: 4.53 min Scan# 543
 Delta R.T. 0.01 min
 Lab File: VL035173.D
 Acq: 8 Jul 2020 5:47

Tgt Ion: 76 Resp: 3828
 Ion Ratio Lower Upper
 76 100
 44 97.6 14.9 22.3#
 78 0.0 7.5 11.3#





#32

1,1,1-Trichloroethane

Concen: 0.034 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

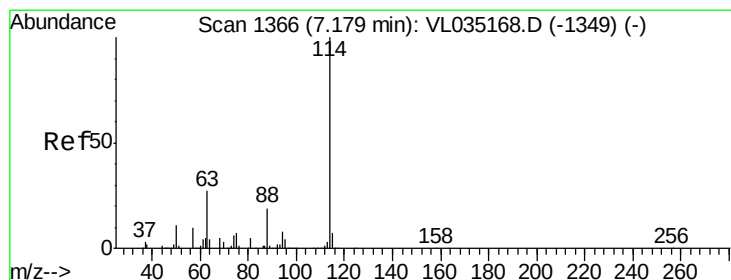
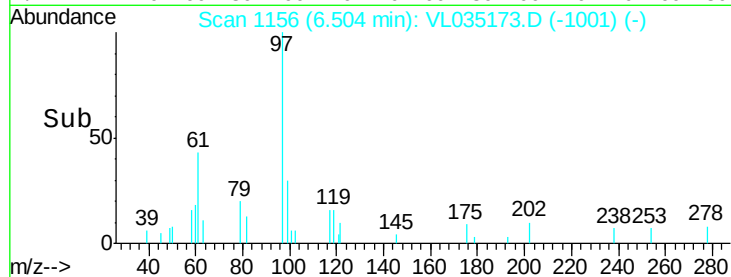
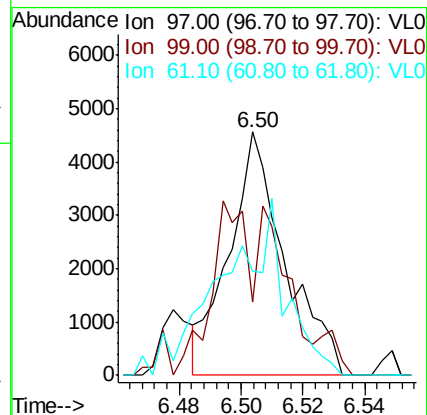
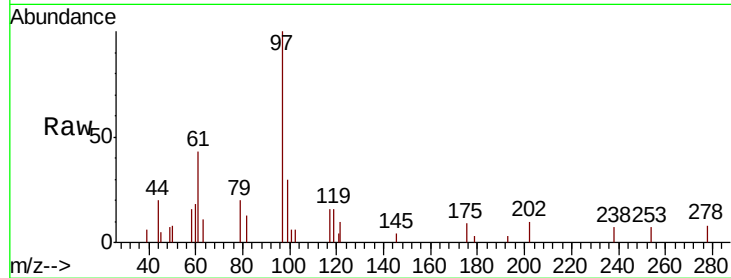
Tot Ion: 97 Resp: 5749

Ion Ratio Lower Upper

97 100

99 94.0 51.2 76.8#

61 82.2 40.9 61.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

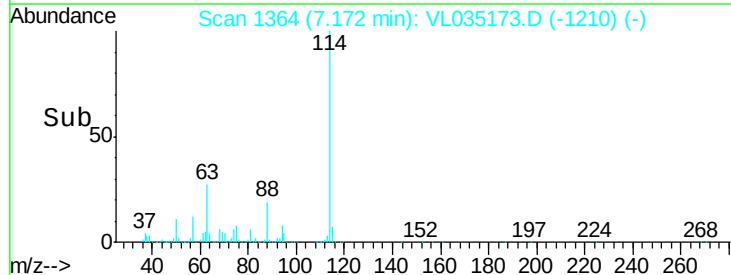
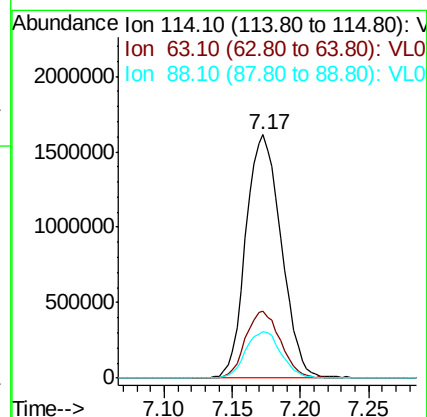
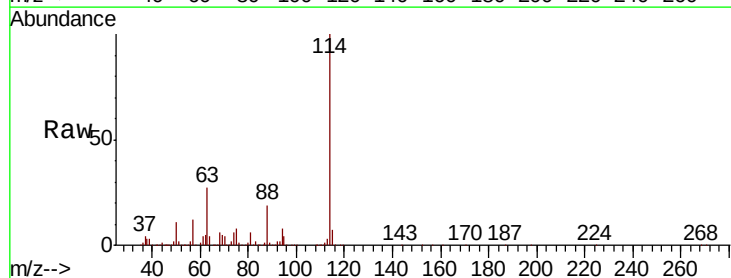
Tgt Ion: 114 Resp: 2907473

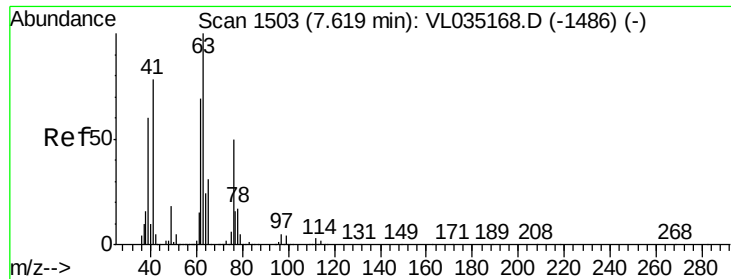
Ion Ratio Lower Upper

114 100

63 27.1 22.0 33.0

88 19.2 15.4 23.0





#39

1,2-Dichloropropane

Concen: 9.084 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

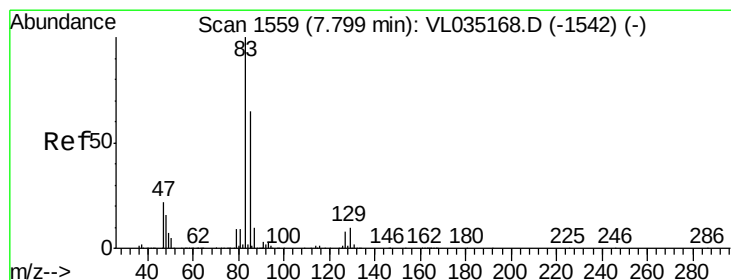
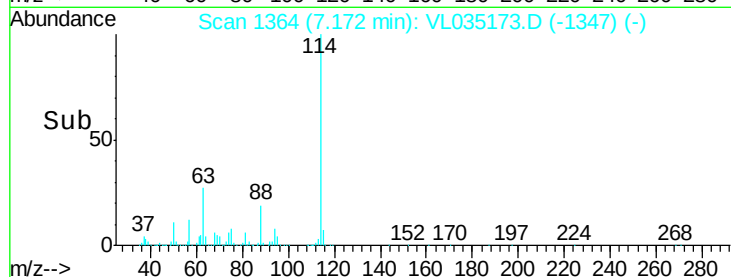
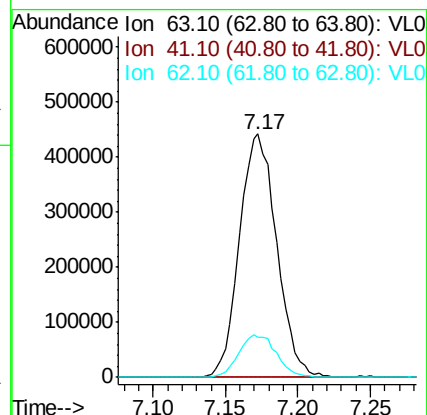
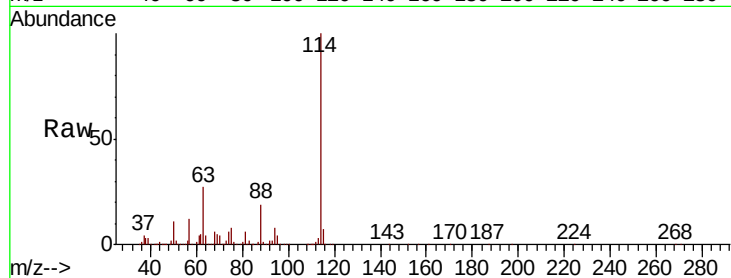
Tot Ion: 63 Resp: 788728

Ion Ratio Lower Upper

63 100

41 0.0 62.6 94.0#

62 16.6 55.0 82.6#



#42

Bromodichloromethane

Concen: 0.032 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.01 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

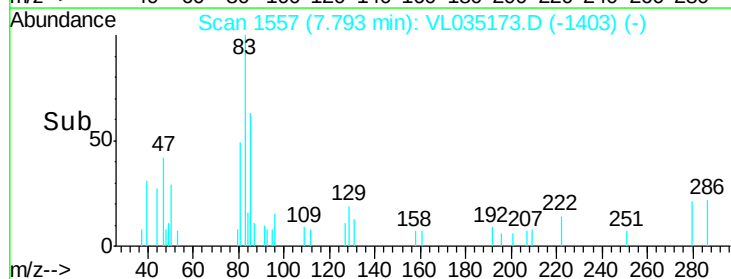
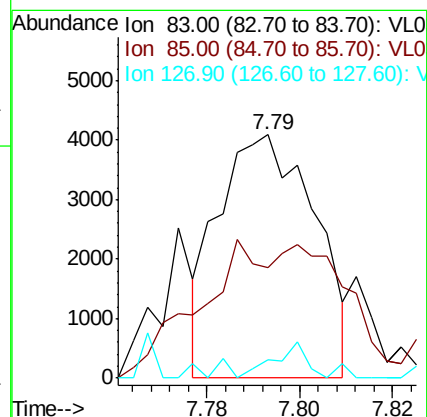
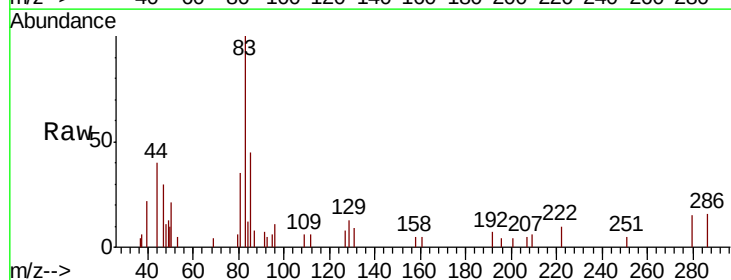
Tgt Ion: 83 Resp: 5919

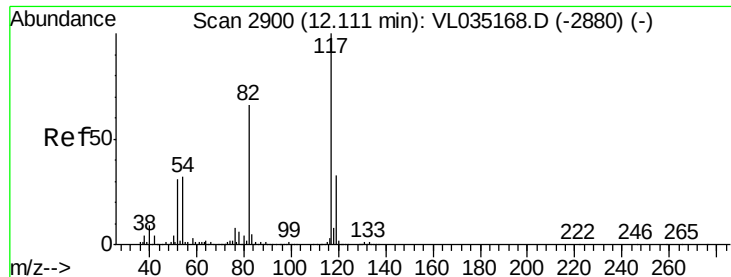
Ion Ratio Lower Upper

83 100

85 28.3 52.2 78.4#

127 2.4 6.3 9.5#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

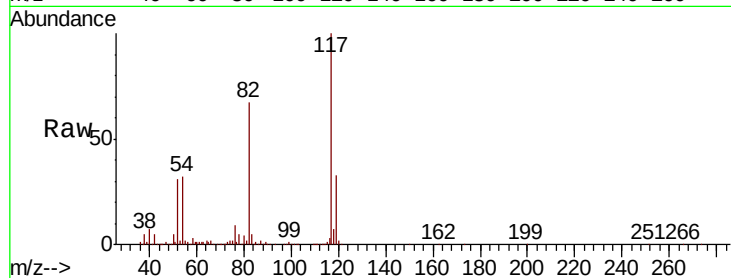
Tot Ion:117 Resp: 2655370

Ion Ratio Lower Upper

117 100

82 68.7 52.3 78.5

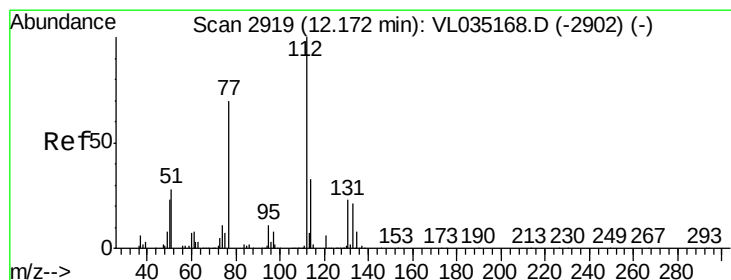
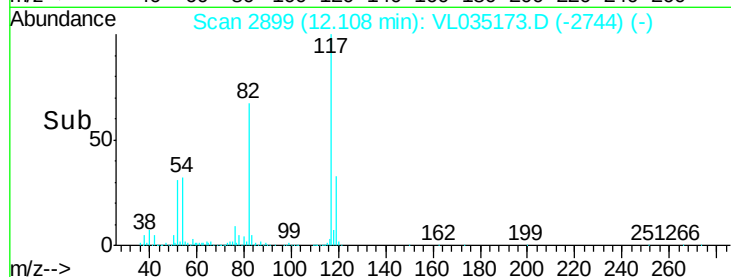
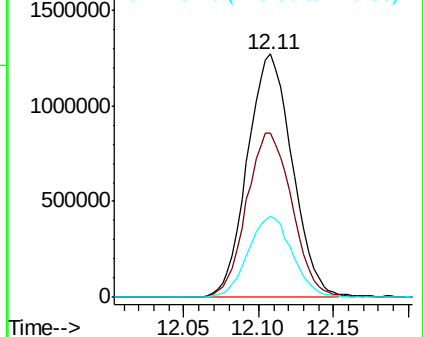
119 33.1 24.9 37.3



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



#57

Chlorobenzene

Concen: 0.045 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. -0.01 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

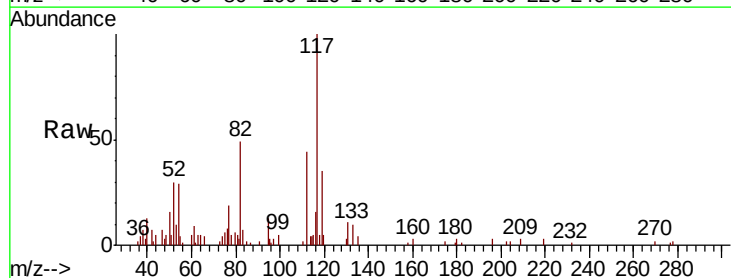
Tgt Ion:112 Resp: 8851

Ion Ratio Lower Upper

112 100

77 34.7 57.0 85.4#

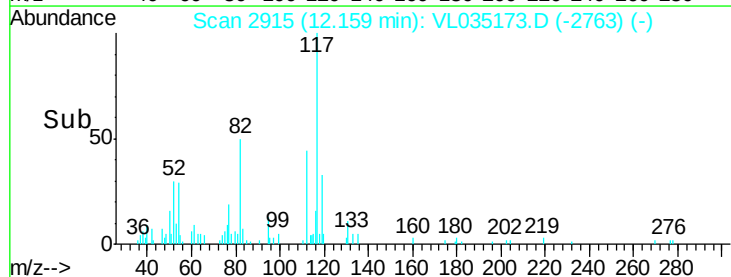
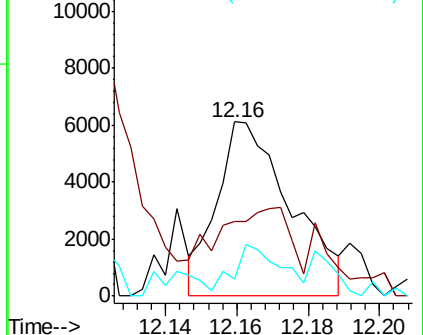
114 0.0 30.2 37.0#

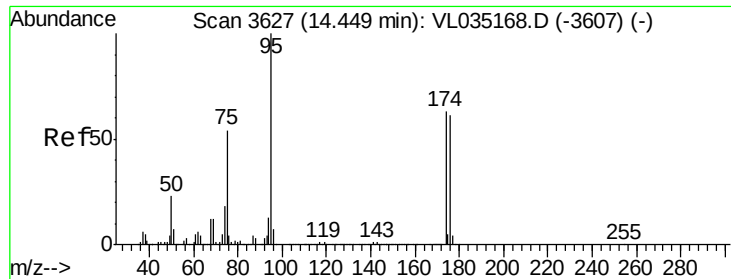


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.171 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.01 min

Lab File: VL035173.D

Acq: 8 Jul 2020 5:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

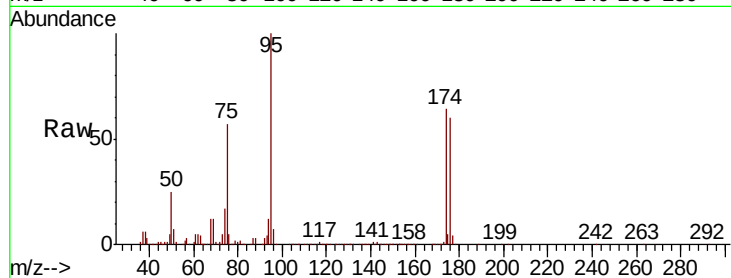
Tot Ion: 95 Resp: 2244537

Ion Ratio Lower Upper

95 100

174 64.6 52.2 78.2

175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

