

Data File : VL036069.D
Acq On : 7 Dec 2020 15:36
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Dec 07 16:28:25 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 13:39:30 2020
QLast Update : Mon Dec 07 13:39:30 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1331033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2941821	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2604004	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2114737	10.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%

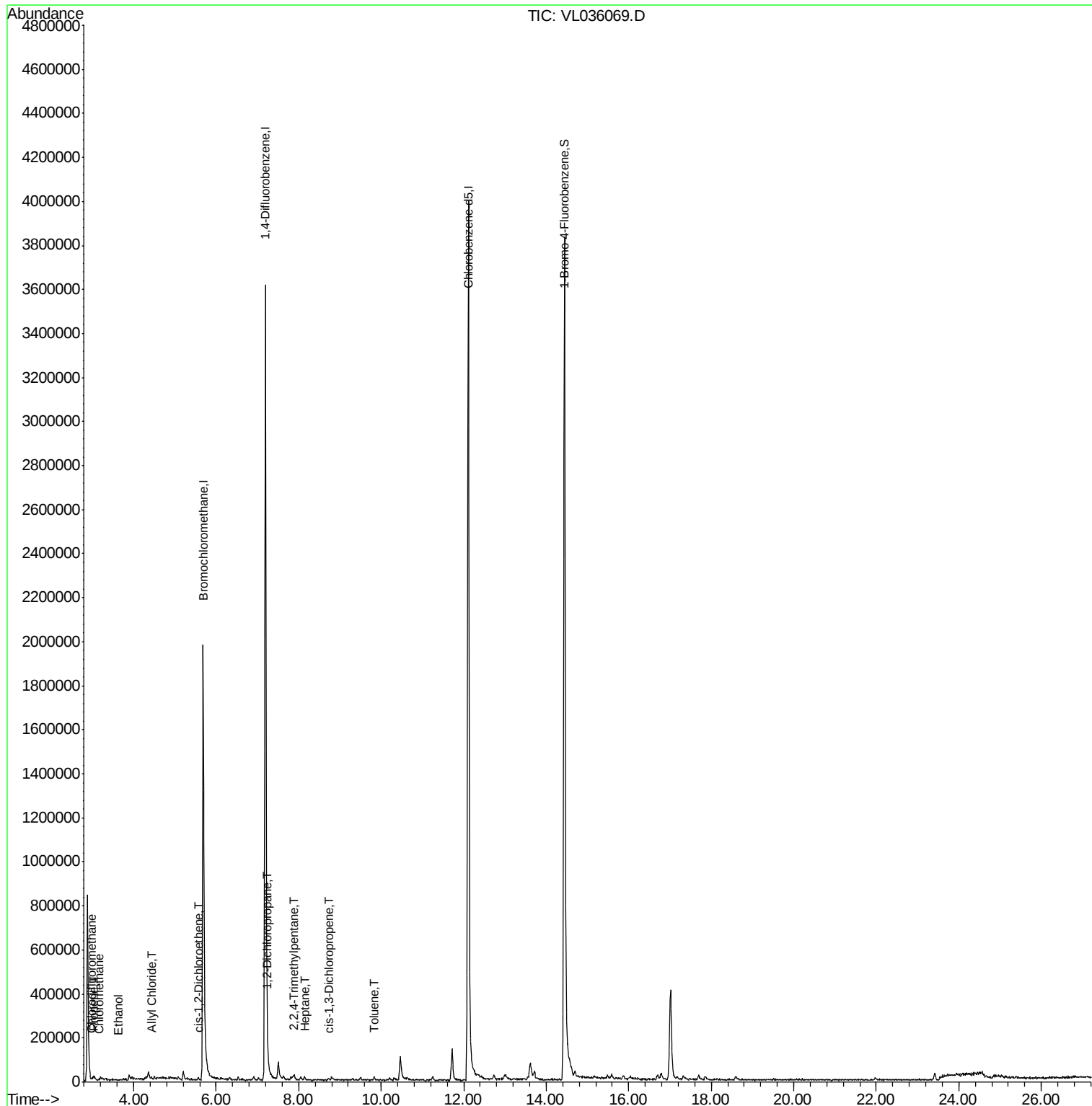
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	6255	0.040	ppbv #	80
4) Chloromethane	3.15	50	2575	0.034	ppbv #	87
9) Propene	3.02	41	3865	0.070	ppbv #	37
10) Heptane	8.15	43	6436	0.043	ppbv	95
13) Ethanol	3.62	45	458	0.041	ppbv #	29
21) Allyl Chloride	4.42	41	2269	0.031	ppbv #	18
31) cis-1,2-Dichloroethene	5.56	61	5005	0.037	ppbv #	84
39) 1,2-Dichloropropane	7.25	63	4677	0.061	ppbv #	16
44) 2,2,4-Trimethylpentane	7.89	57	13608	0.046	ppbv #	51
46) cis-1,3-Dichloropropene	8.73	75	4266	0.046	ppbv #	77
53) Toluene	9.83	91	11264	0.051	ppbv	94

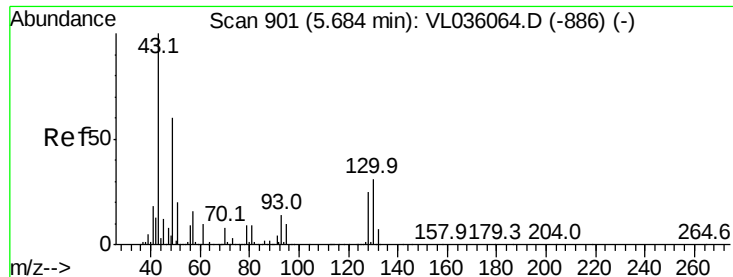
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL036069.D
Acq On : 7 Dec 2020 15:36
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Dec 07 16:28:25 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 13:39:30 2020
QLast Update : Mon Dec 07 13:39:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

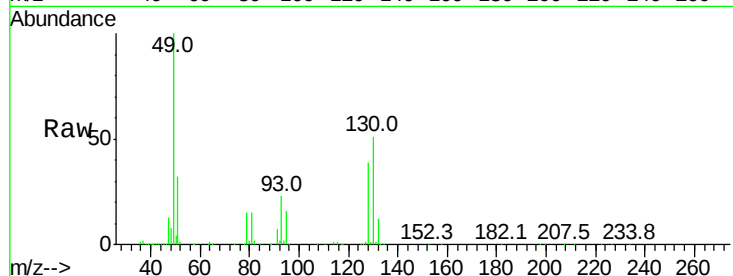
Tgt Ion: 49 Resp: 1331033

Ion Ratio Lower Upper

49 100

128 39.7 21.1 63.1

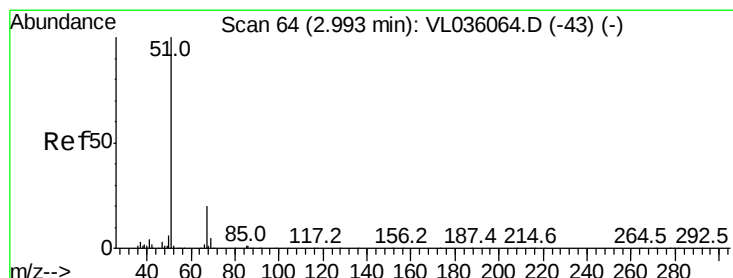
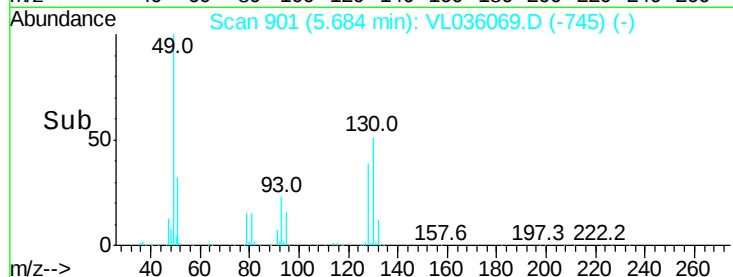
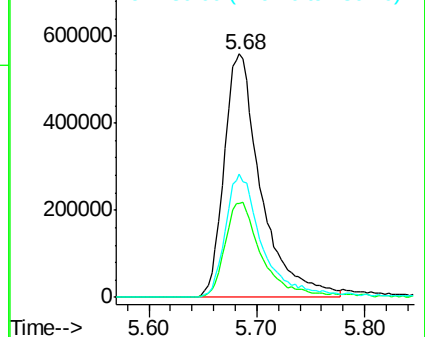
130 52.2 27.1 81.3



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



#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL036069.D

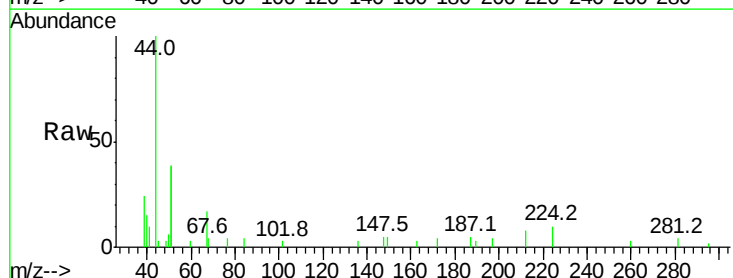
Acq: 7 Dec 2020 15:36

Tgt Ion: 51 Resp: 6255

Ion Ratio Lower Upper

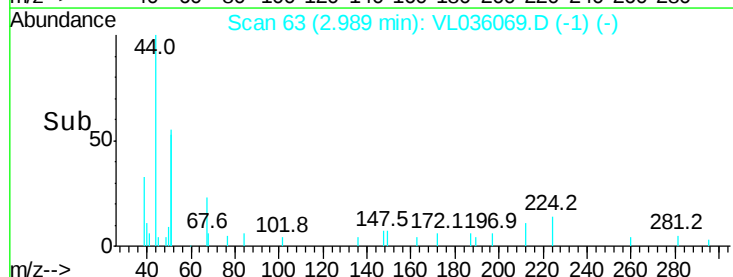
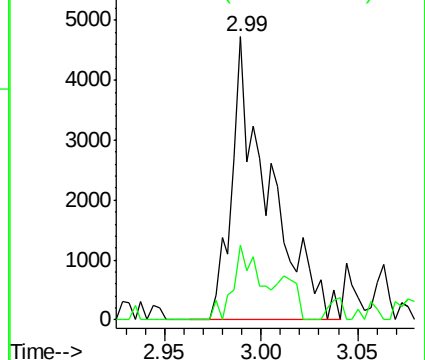
51 100

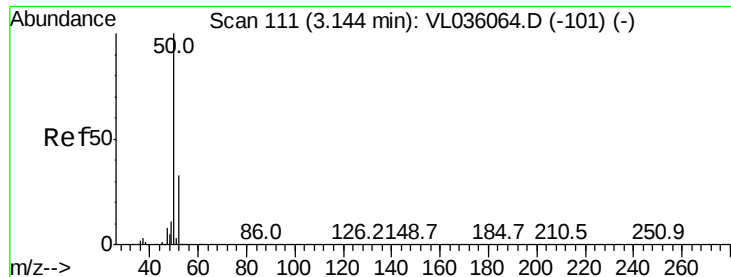
67 26.6 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

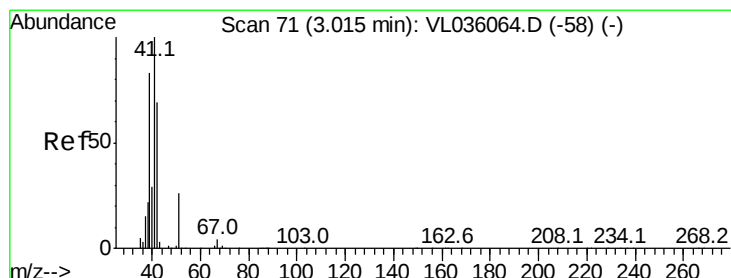
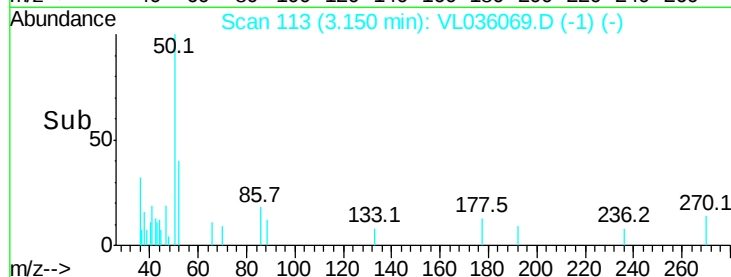
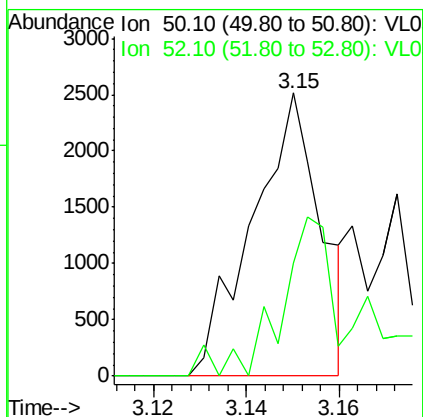
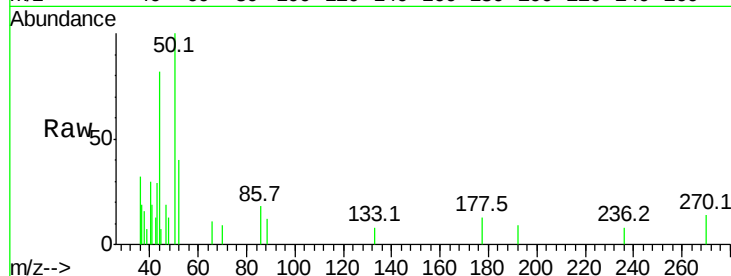
VSTDIC0.03

Tgt Ion: 50 Resp: 2575

Ion Ratio Lower Upper

50 100

52 40.0 26.1 39.1#



#9

Propene

Concen: 0.070 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036069.D

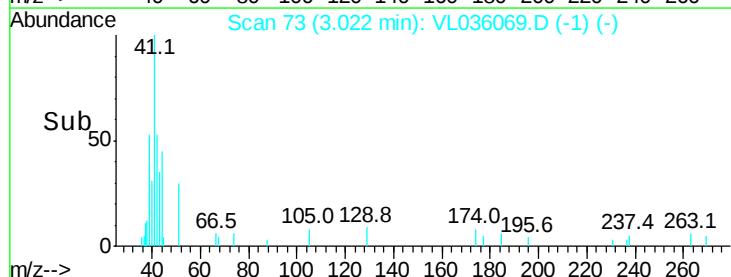
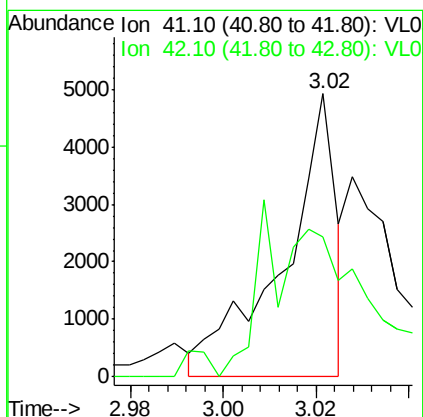
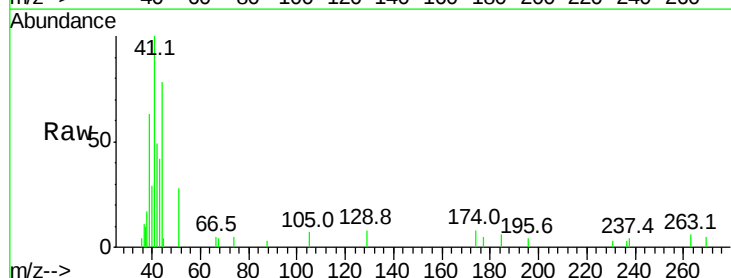
Acq: 7 Dec 2020 15:36

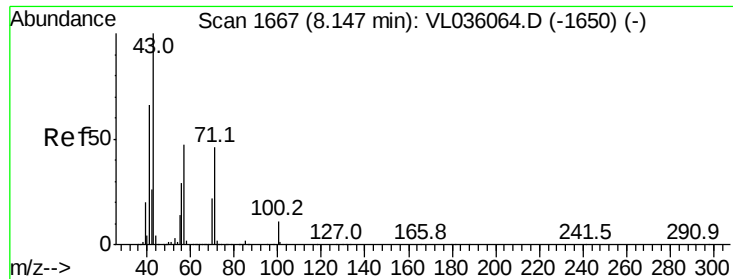
Tgt Ion: 41 Resp: 3865

Ion Ratio Lower Upper

41 100

42 123.6 57.0 85.6#

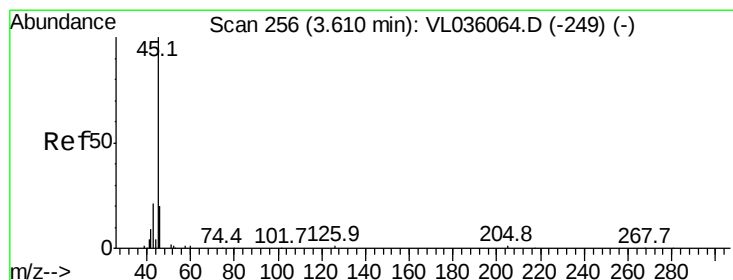
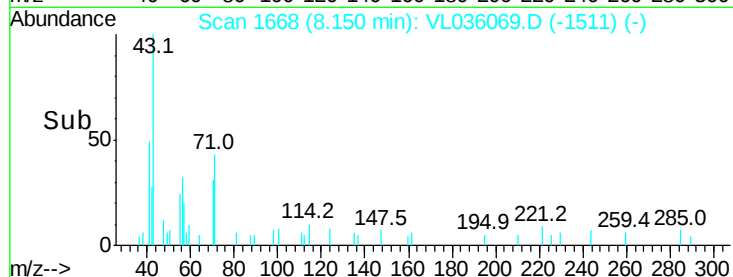
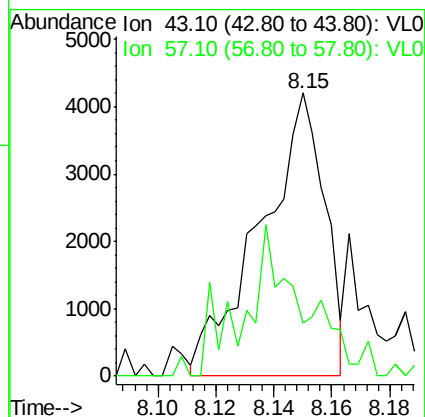
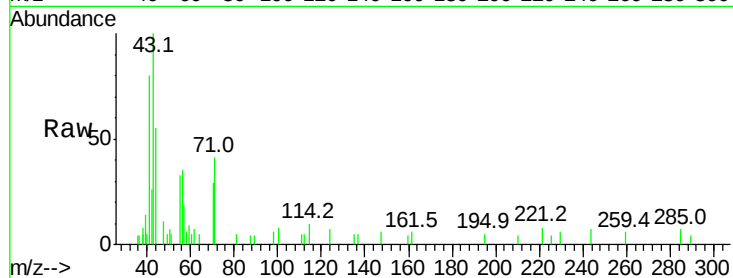




#10
Heptane
Concen: 0.043 ppbv
RT: 8.15 min Scan# 1668
Delta R.T. 0.00 min
Lab File: VL036069.D
Acq: 7 Dec 2020 15:36

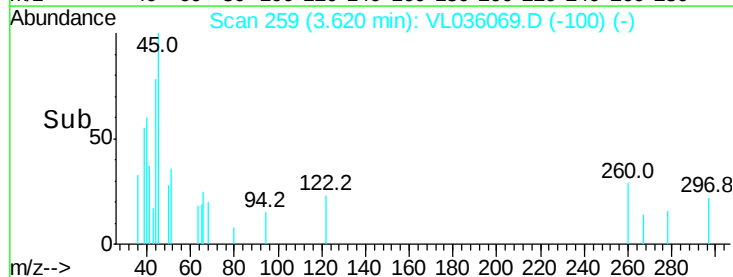
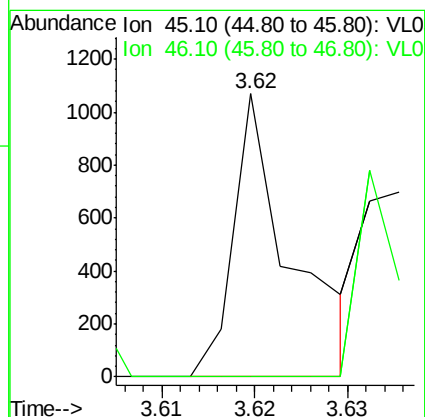
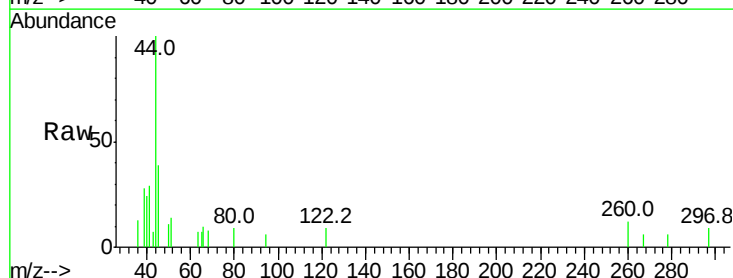
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

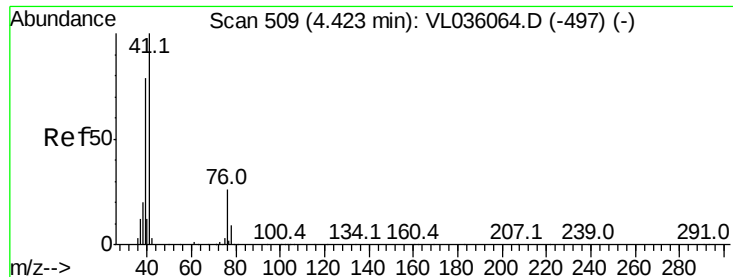
Tgt Ion: 43 Resp: 6436
Ion Ratio Lower Upper
43 100
57 51.0 37.9 56.9



#13
Ethanol
Concen: 0.041 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036069.D
Acq: 7 Dec 2020 15:36

Tgt Ion: 45 Resp: 458
Ion Ratio Lower Upper
45 100
46 0.0 19.0 75.8#

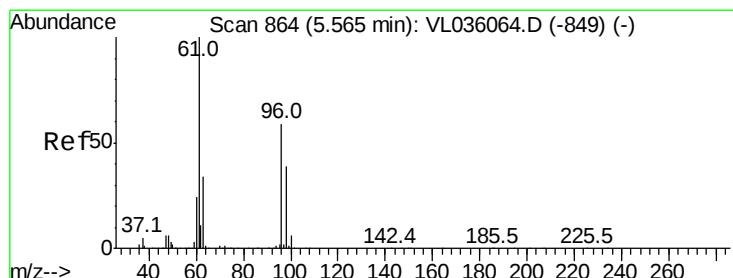
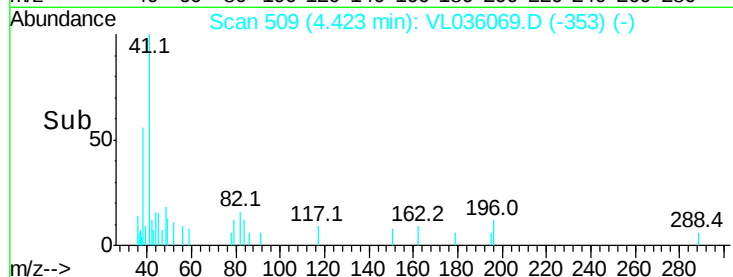
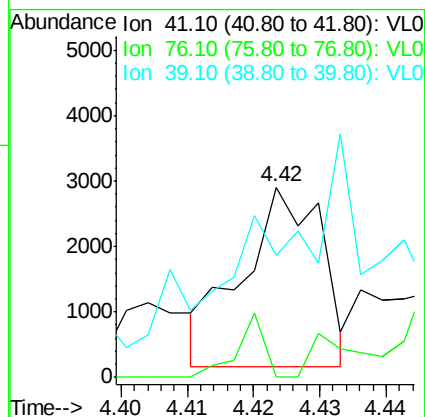
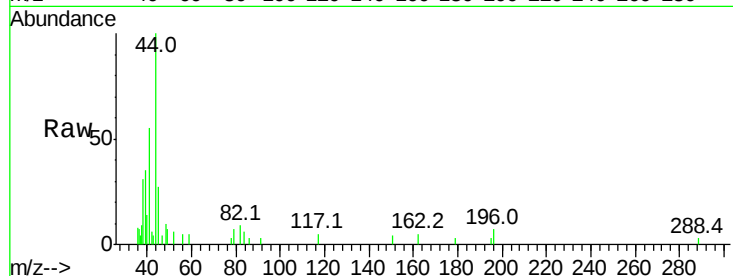




#21
 Allyl Chloride
 Concen: 0.031 ppbv
 RT: 4.42 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VL036069.D
 Acq: 7 Dec 2020 15:36

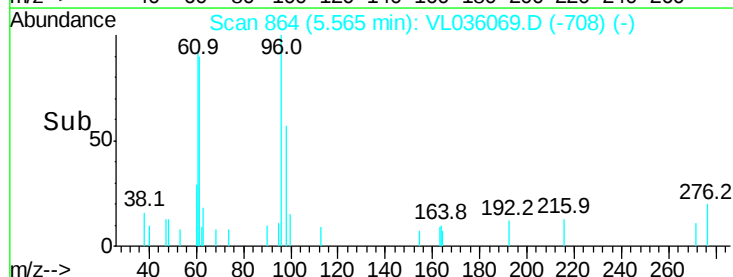
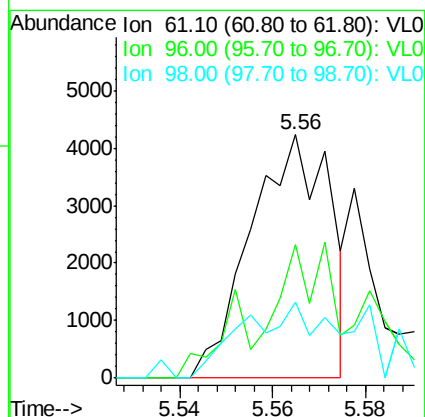
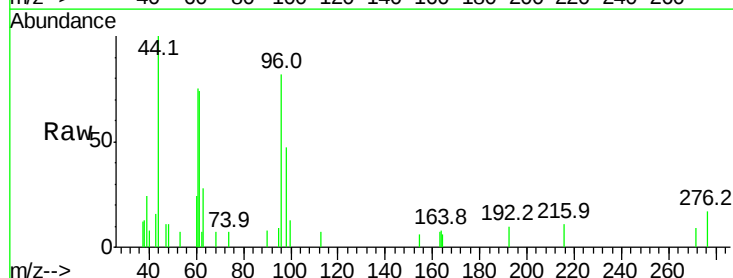
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

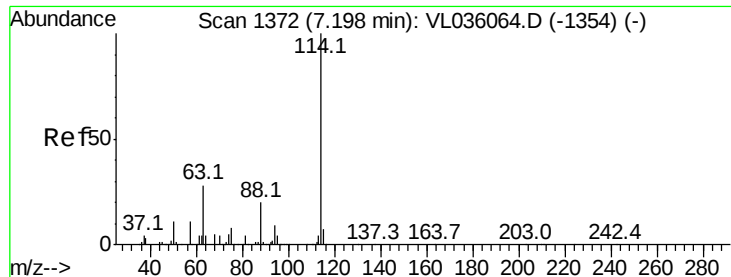
Tgt Ion: 41 Resp: 2269
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.0 31.4#
 39 0.0 66.0 99.0#



#31
 cis-1,2-Dichloroethene
 Concen: 0.037 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VL036069.D
 Acq: 7 Dec 2020 15:36

Tgt Ion: 61 Resp: 5005
 Ion Ratio Lower Upper
 61 100
 96 44.9 47.3 70.9#
 98 31.4 31.4 47.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.00 min

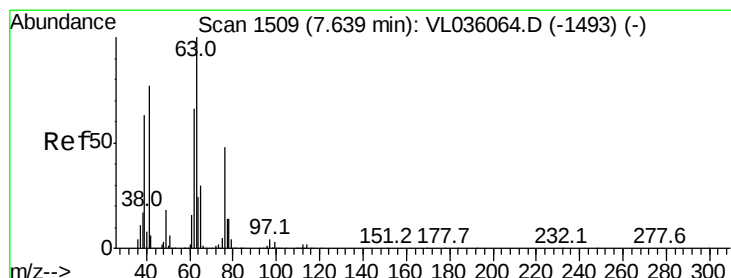
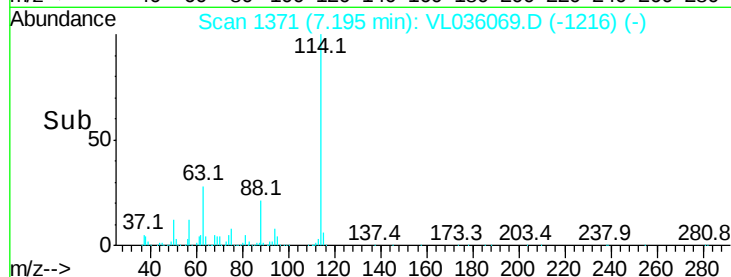
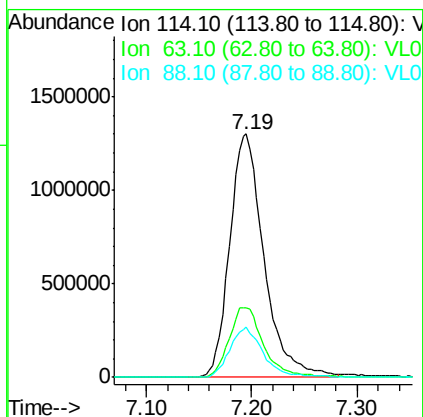
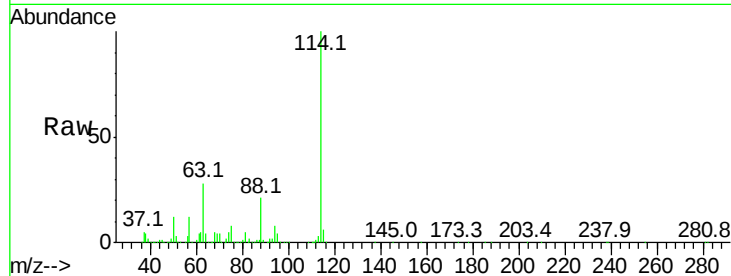
Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 114 Resp: 2941821

Ion	Ratio	Lower	Upper
114	100		
63	29.1	23.6	35.4
88	20.2	15.8	23.6



#39

1,2-Dichloropropane

Concen: 0.061 ppbv

RT: 7.25 min Scan# 1389

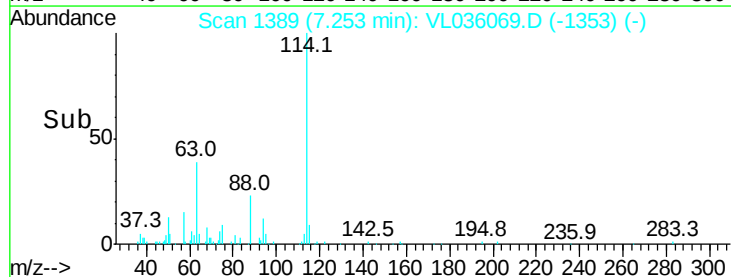
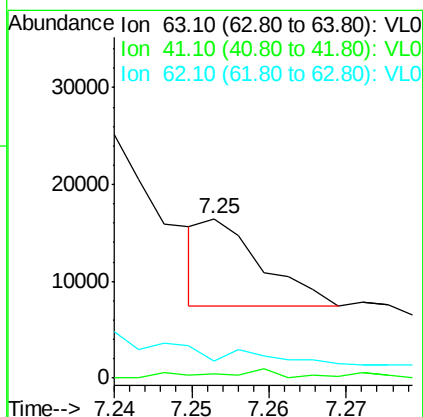
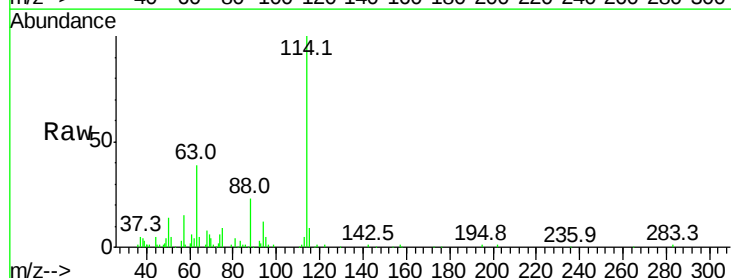
Delta R.T. -0.39 min

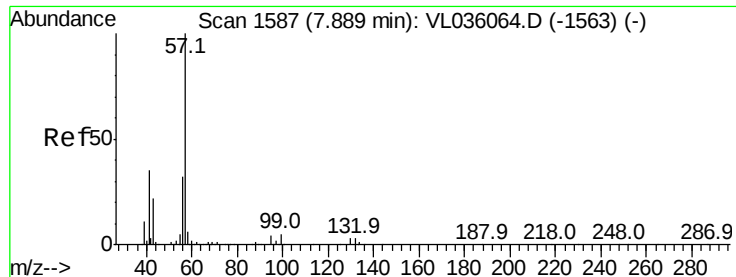
Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Tgt Ion: 63 Resp: 4677

Ion	Ratio	Lower	Upper
63	100		
41	1.6	61.9	92.9#
62	2.0	52.5	78.7#





#44

2,2,4-Trimethylpentane

Concen: 0.046 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.00 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

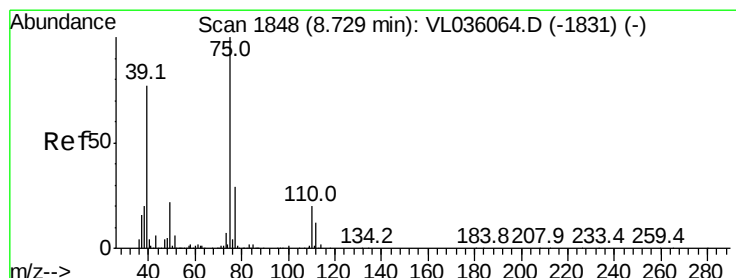
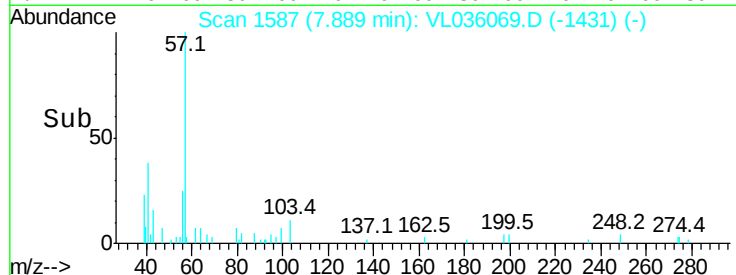
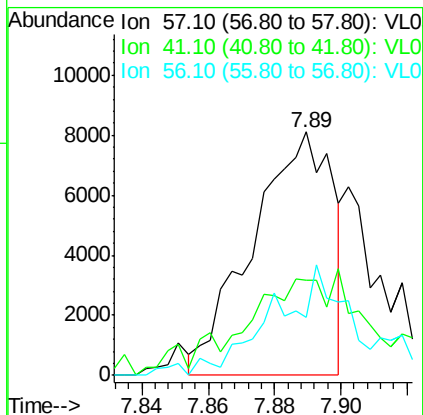
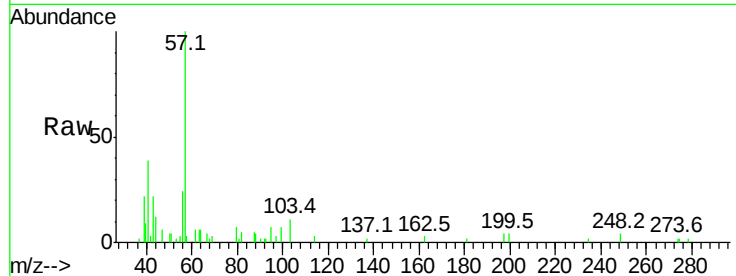
Tgt Ion: 57 Resp: 13608

Ion Ratio Lower Upper

57 100

41 0.0 28.9 43.3#

56 50.8 25.3 37.9#



#46

cis-1,3-Dichloropropene

Concen: 0.046 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

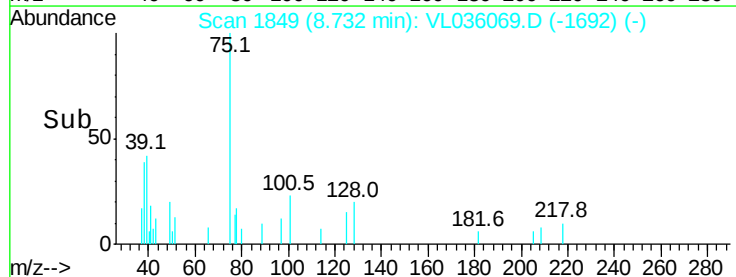
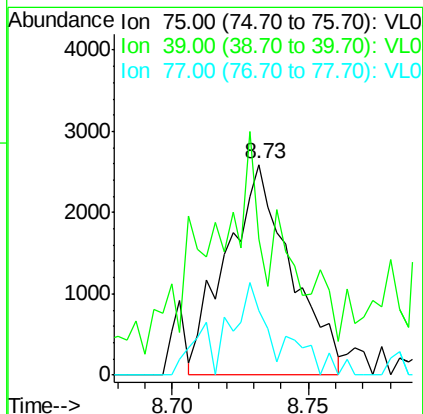
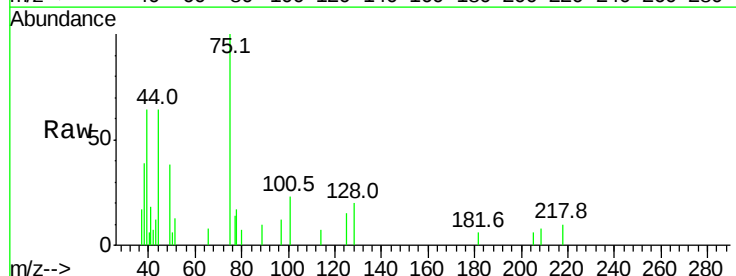
Tgt Ion: 75 Resp: 4266

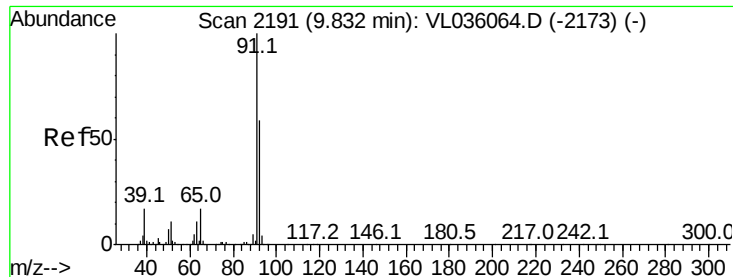
Ion Ratio Lower Upper

75 100

39 51.7 61.6 92.4#

77 32.5 23.0 34.6





#53

Toluene

Concen: 0.051 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

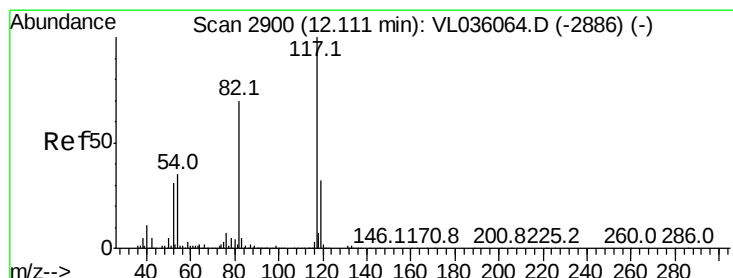
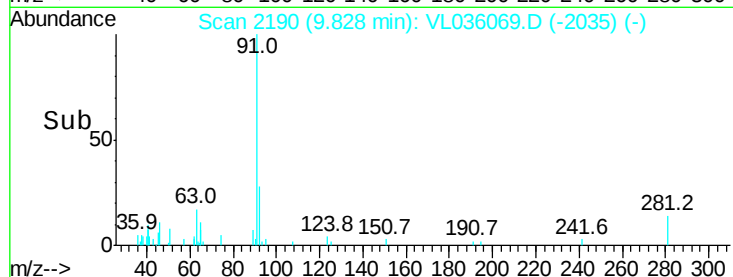
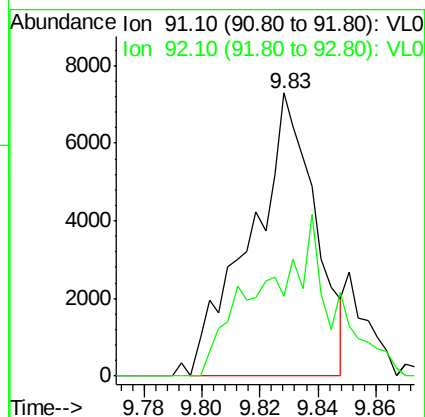
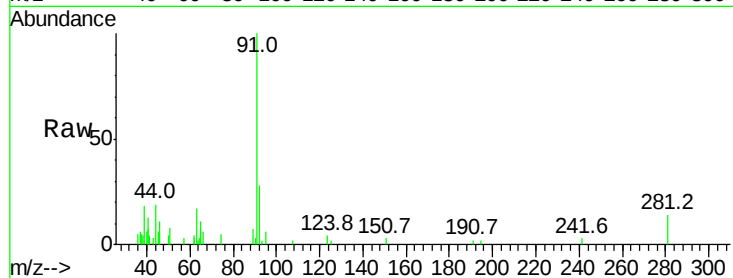
VSTDIC0.03

Tgt Ion: 91 Resp: 11264

Ion Ratio Lower Upper

91 100

92 64.4 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

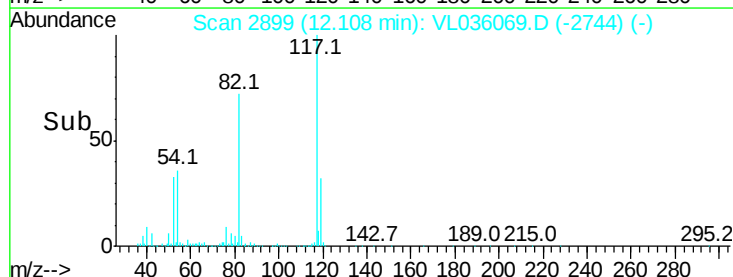
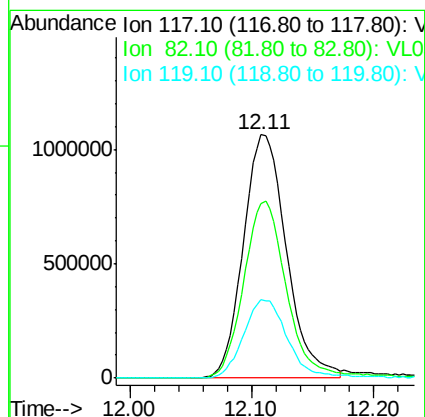
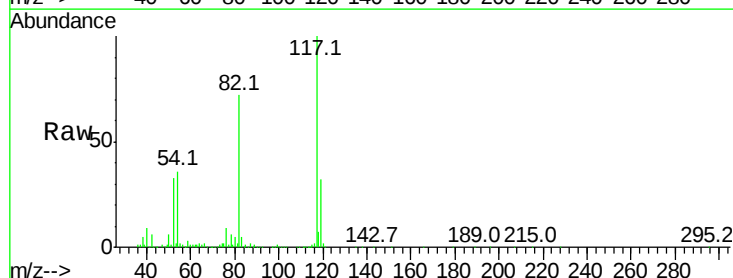
Tgt Ion: 117 Resp: 2604004

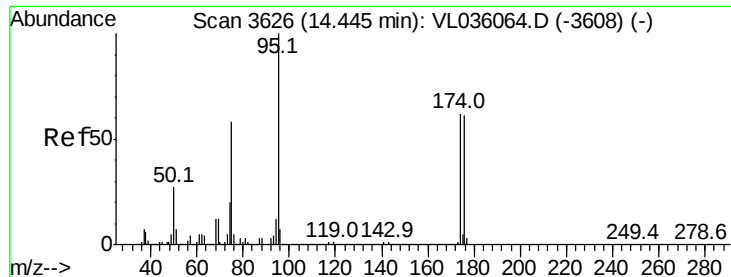
Ion Ratio Lower Upper

117 100

82 73.9 0.0 0.0#

119 33.0 0.0 0.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.629 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL036069.D

Acq: 7 Dec 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

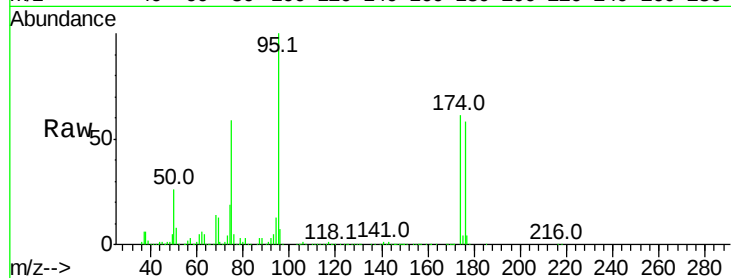
Tgt Ion: 95 Resp: 2114737

Ion Ratio Lower Upper

95 100

174 63.7 50.7 76.1

175 4.6 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

