

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121719\
 Data File : VL034500.D
 Acq On : 17 Dec 2019 19:52
 Operator : SY/AP
 Sample : K6319-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IAH-DUPDL

Quant Time: Dec 18 04:22:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	971992	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1914811	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1905327	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1626017	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

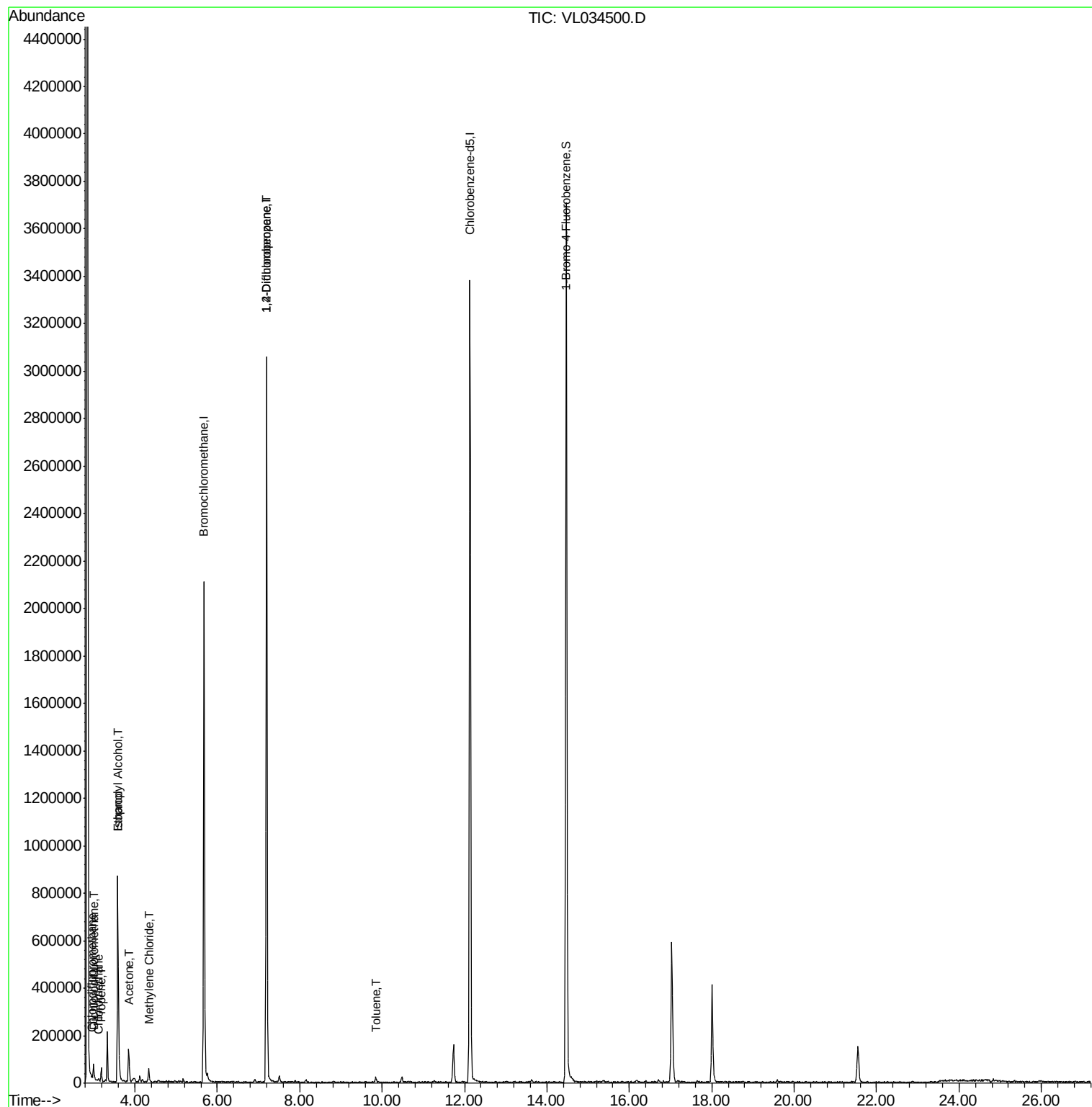
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	11339	0.064	ppbv #	86
3) Chlorodifluoromethane	2.96	51	5298	0.044	ppbv	95
4) Chloromethane	3.11	50	3296	0.046	ppbv	95
9) Propene	3.18	41	12254	0.228	ppbv	86
13) Ethanol	3.58	45	813451	54.237	ppbv	95
15) Acetone	3.84	43	115966	0.833	ppbv	99
19) Isopropyl Alcohol	3.58	45	813451	9.118	ppbv #	96
20) Methylene Chloride	4.33	84	6267	0.127	ppbv #	76
39) 1,2-Dichloropropane	7.19	63	573761	7.781	ppbv #	23
53) Toluene	9.84	91	12054	0.055	ppbv	90

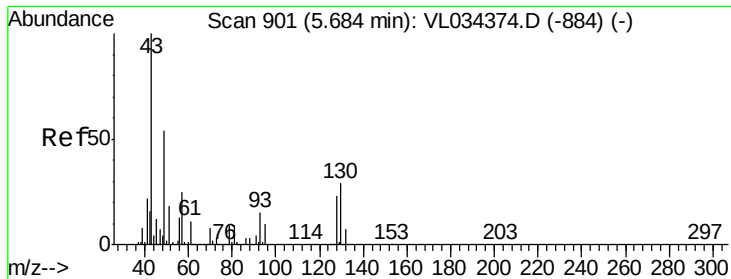
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034500.D

Acq: 17 Dec 2019 19:52

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IAH-DUPDL

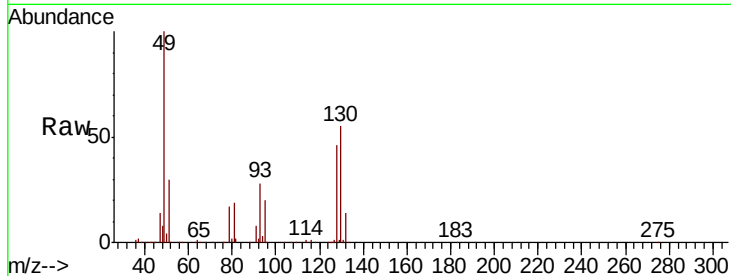
Tgt Ion: 49 Resp: 971992

Ion Ratio Lower Upper

49 100

128 44.9 21.8 65.3

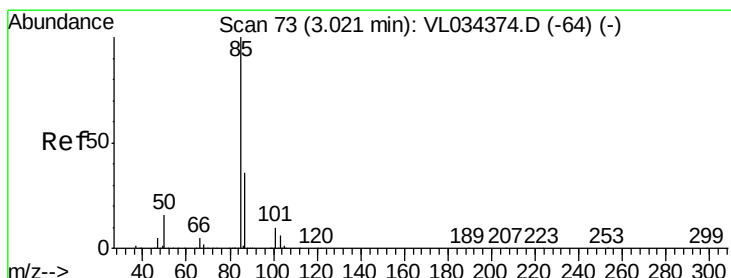
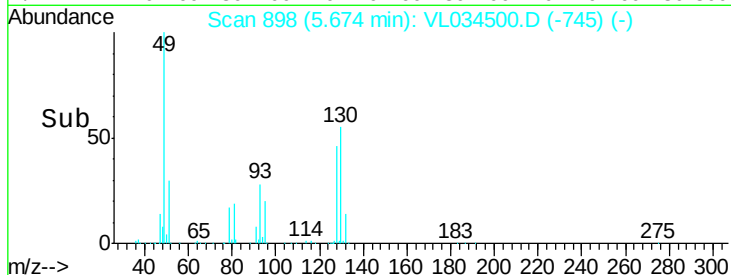
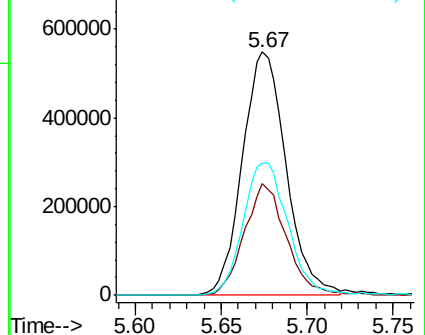
130 56.4 28.0 84.0



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: 0.064 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL034500.D

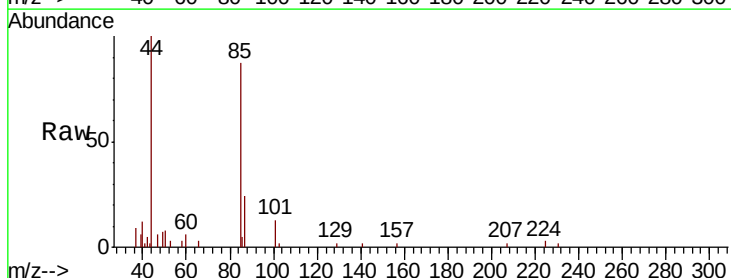
Acq: 17 Dec 2019 19:52

Tgt Ion: 85 Resp: 11339

Ion Ratio Lower Upper

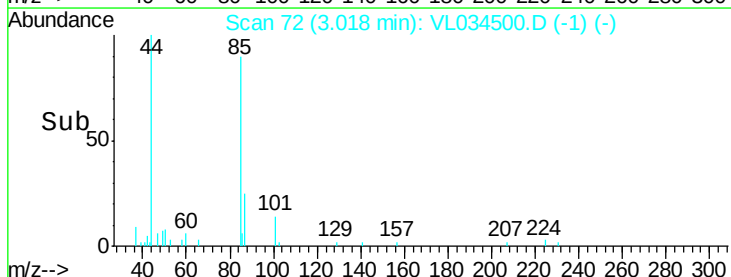
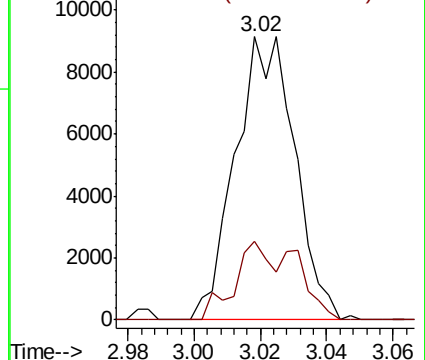
85 100

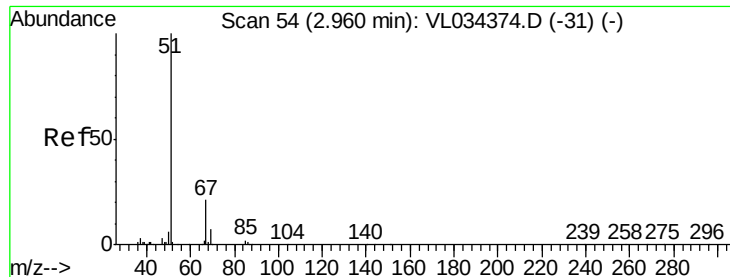
87 27.7 28.5 42.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

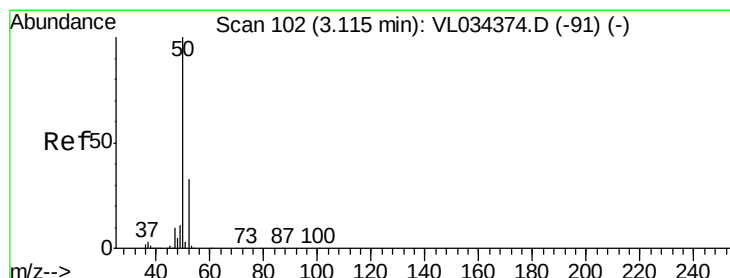
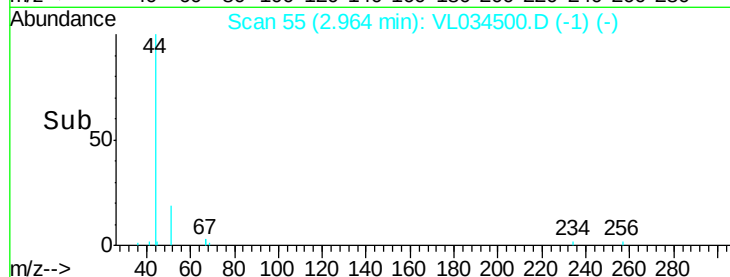
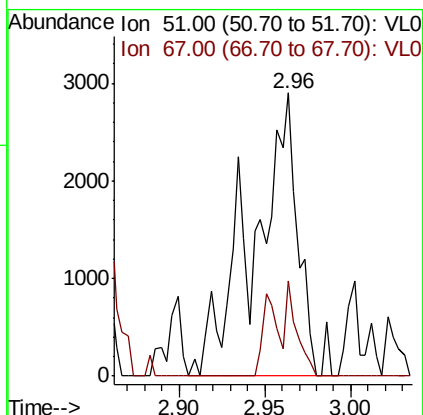
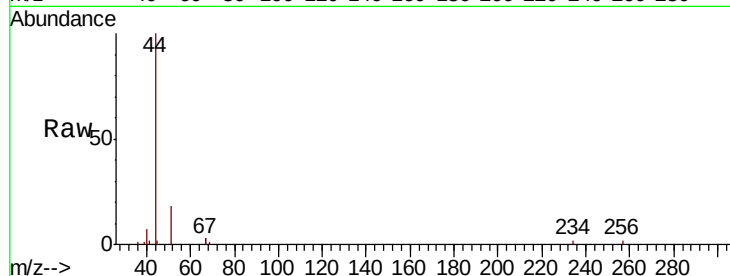




#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 2.96 min Scan# 55
Delta R.T. 0.00 min
Lab File: VL034500.D
Acq: 17 Dec 2019 19:52

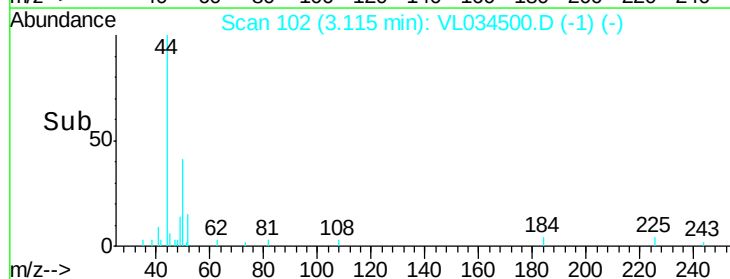
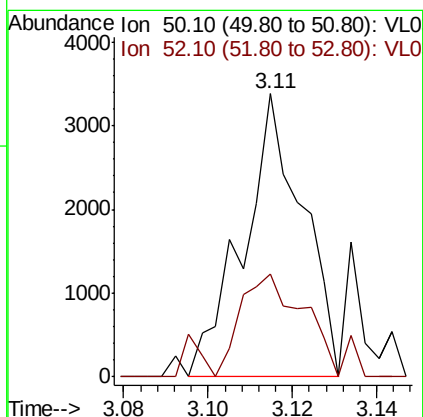
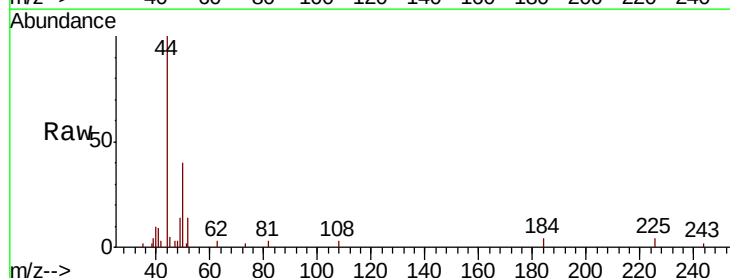
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IAH-DUPDL

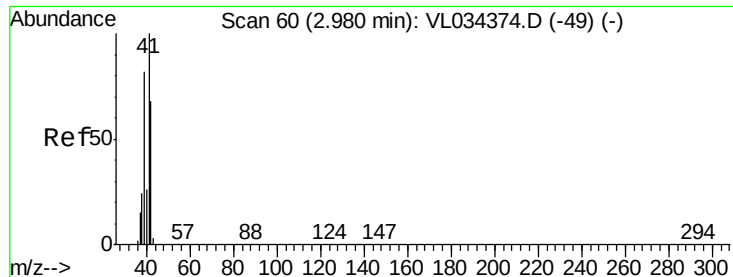
Tgt Ion: 51 Resp: 5298
Ion Ratio Lower Upper
51 100
67 17.7 16.2 24.2



#4
Chloromethane
Concen: 0.046 ppbv
RT: 3.11 min Scan# 102
Delta R.T. 0.00 min
Lab File: VL034500.D
Acq: 17 Dec 2019 19:52

Tgt Ion: 50 Resp: 3296
Ion Ratio Lower Upper
50 100
52 36.3 26.8 40.2





#9

Propene

Concen: 0.228 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.20 min

Lab File: VL034500.D

Acq: 17 Dec 2019 19:52

Instrument :

MSVOA_L

ClientSampleId :

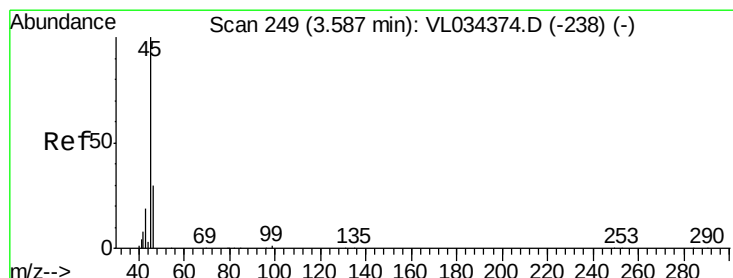
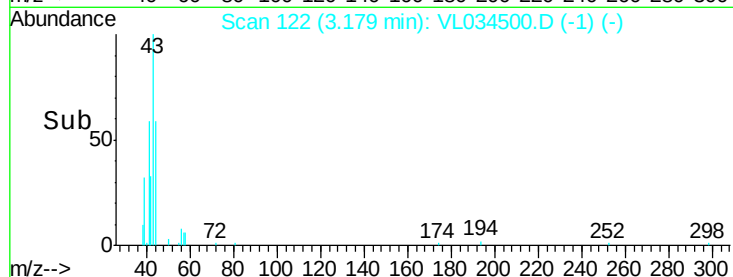
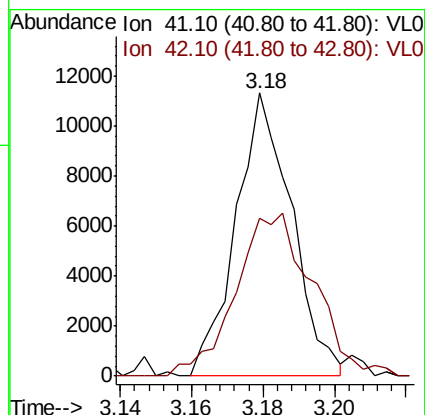
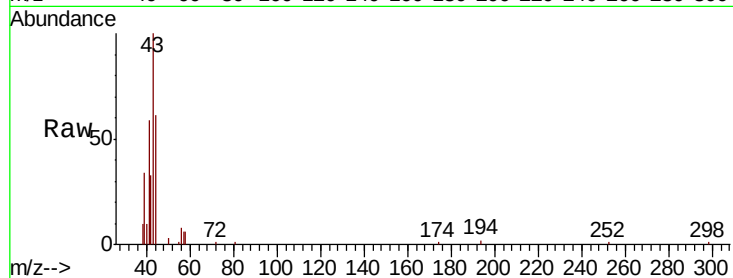
LIHA-IAH-DUPDL

Tgt Ion: 41 Resp: 12254

Ion Ratio Lower Upper

41 100

42 79.4 54.6 82.0



#13

Ethanol

Concen: 54.237 ppbv

RT: 3.58 min Scan# 248

Delta R.T. -0.00 min

Lab File: VL034500.D

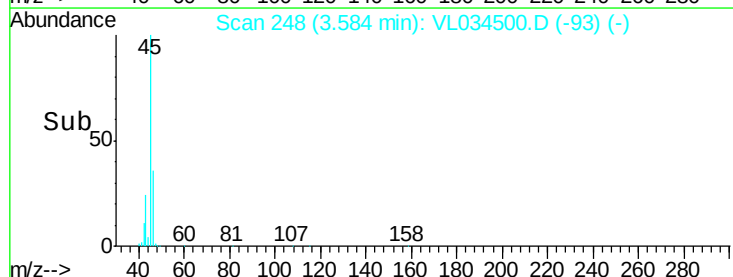
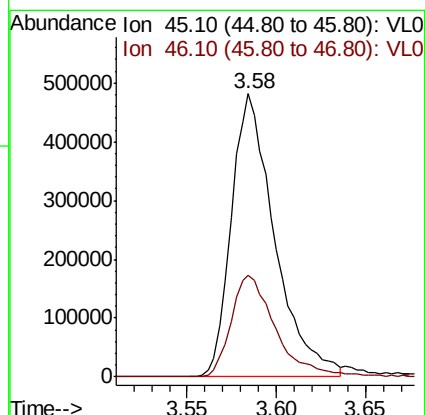
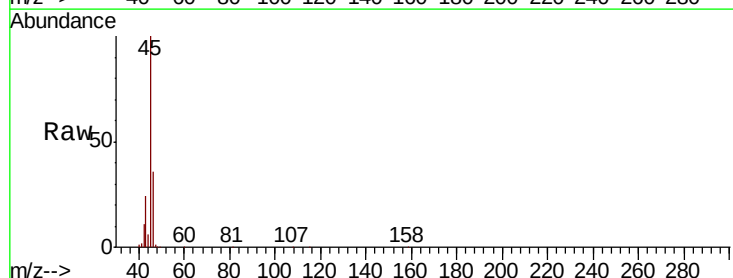
Acq: 17 Dec 2019 19:52

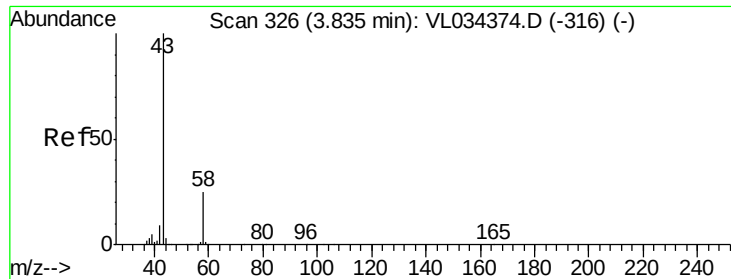
Tgt Ion: 45 Resp: 813451

Ion Ratio Lower Upper

45 100

46 37.3 13.8 55.4





#15

Acetone

Concen: 0.833 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL034500.D

Acq: 17 Dec 2019 19:52

Instrument :

MSVOA_L

ClientSampleId :

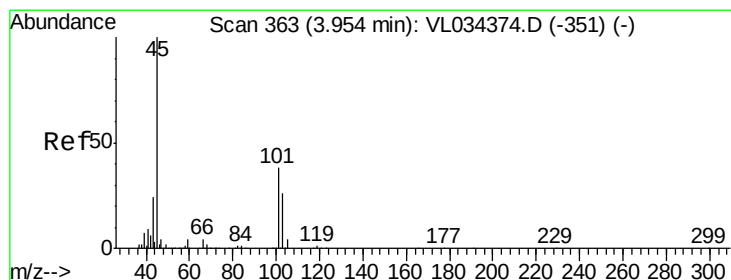
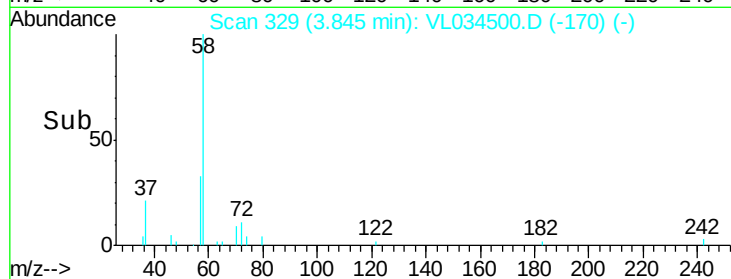
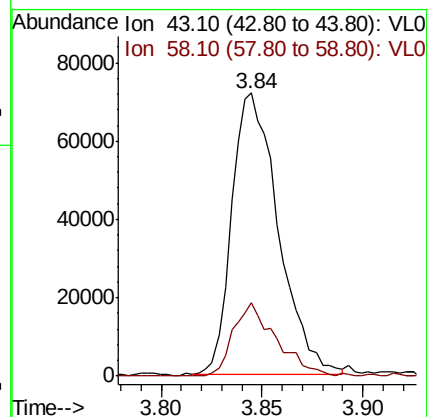
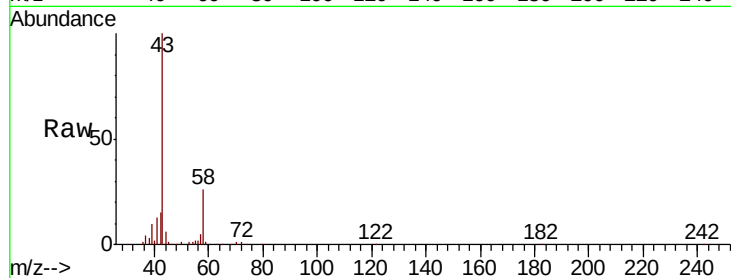
LIHA-IAH-DUPDL

Tgt Ion: 43 Resp: 115966

Ion Ratio Lower Upper

43 100

58 24.6 20.2 30.4



#19

Isopropyl Alcohol

Concen: 9.118 ppbv

RT: 3.58 min Scan# 248

Delta R.T. -0.37 min

Lab File: VL034500.D

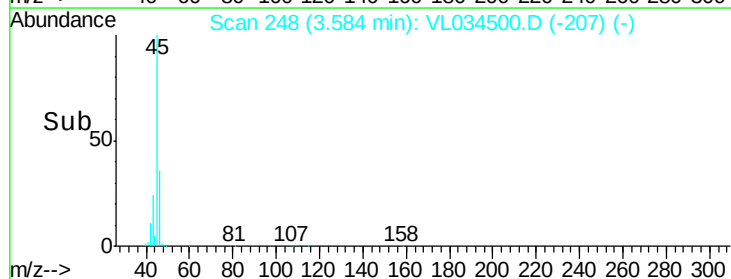
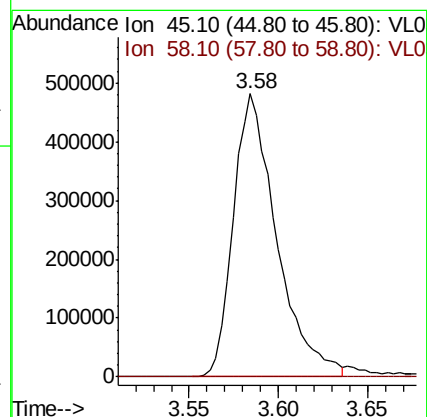
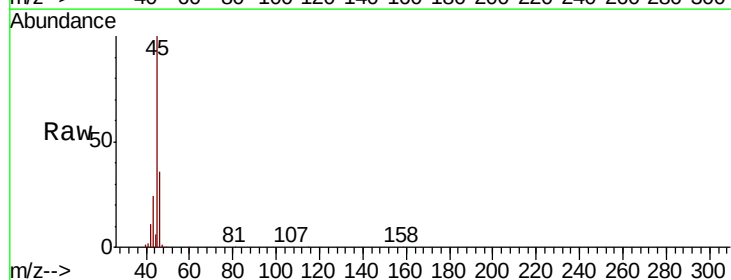
Acq: 17 Dec 2019 19:52

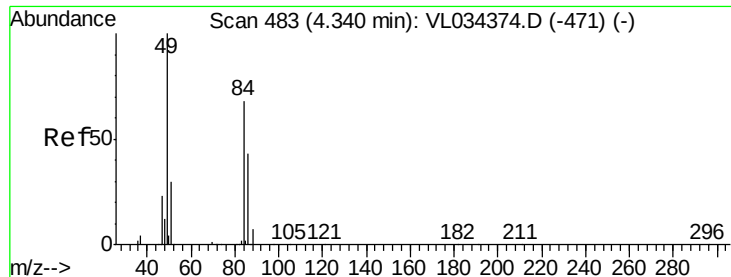
Tgt Ion: 45 Resp: 813451

Ion Ratio Lower Upper

45 100

58 0.0 1.3 1.9#





#20

Methylene Chloride

Concen: 0.127 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL034500.D

Acq: 17 Dec 2019 19:52

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IAH-DUPDL

Tgt Ion: 84 Resp: 6267

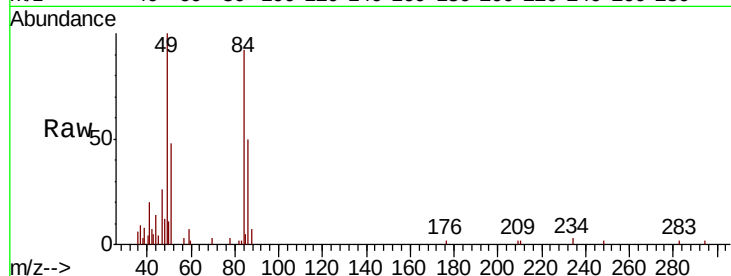
Ion Ratio Lower Upper

84 100

49 105.7 116.8 175.2#

51 52.4 35.6 53.4

86 54.4 50.7 76.1

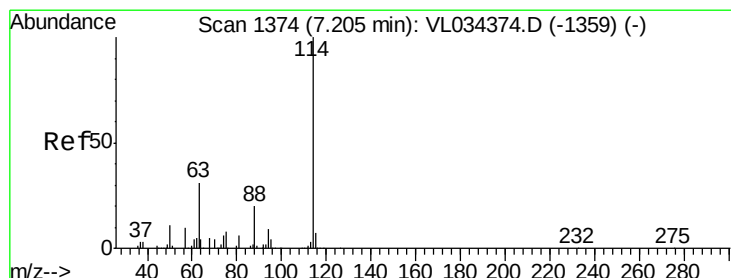
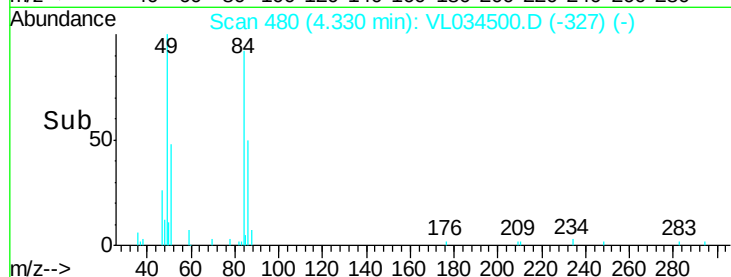
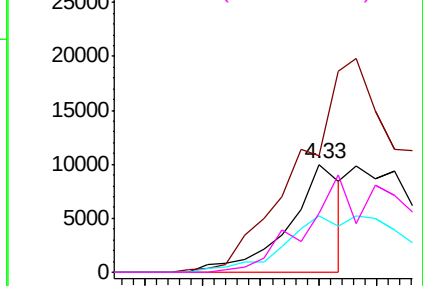


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.01 min

Lab File: VL034500.D

Acq: 17 Dec 2019 19:52

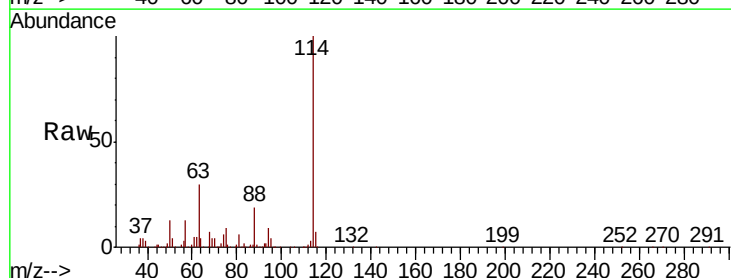
Tgt Ion: 114 Resp: 1914811

Ion Ratio Lower Upper

114 100

63 30.1 24.2 36.4

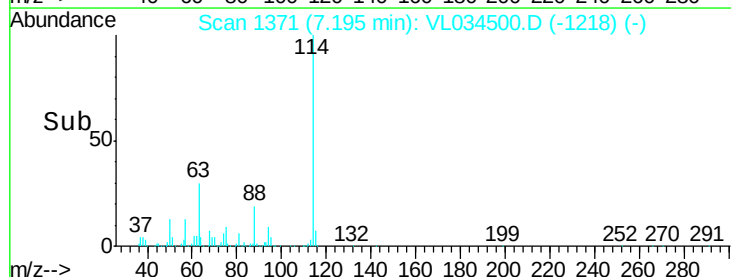
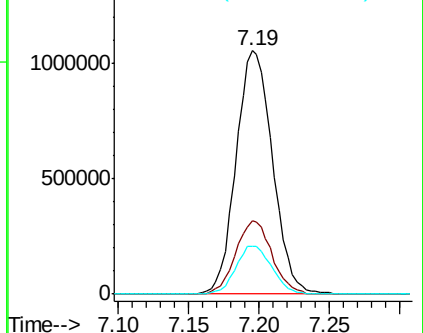
88 19.7 15.9 23.9

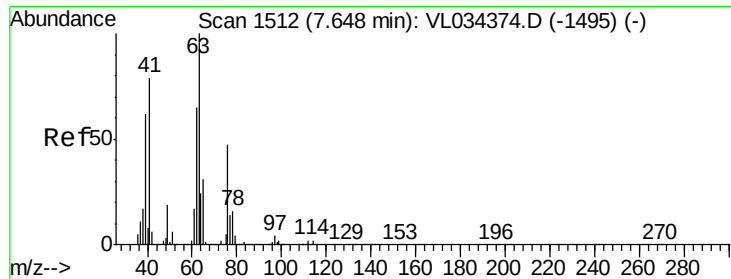


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

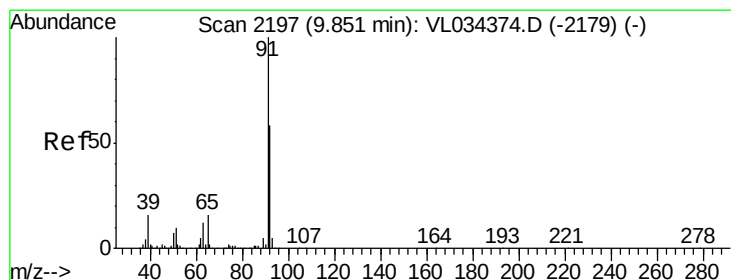
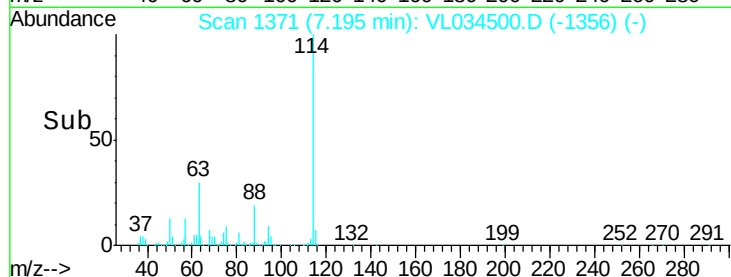
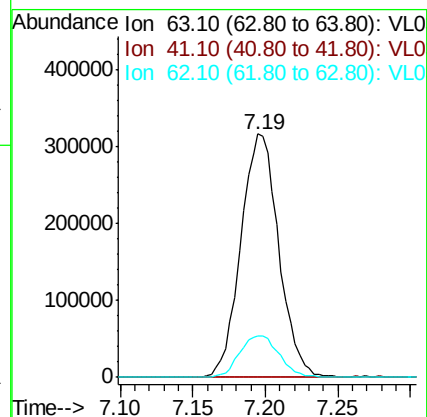
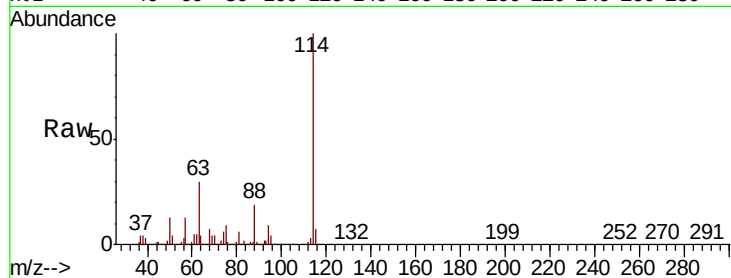




#39
 1,2-Dichloropropane
 Concen: 7.781 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.45 min
 Lab File: VL034500.D
 Acq: 17 Dec 2019 19:52

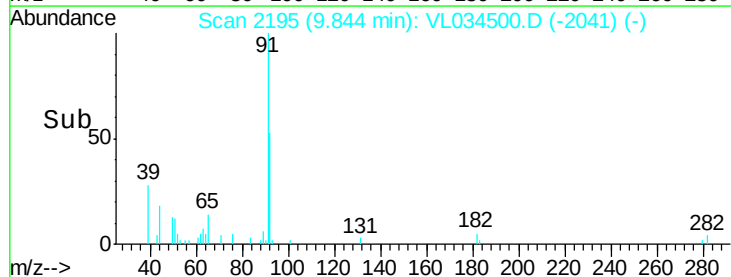
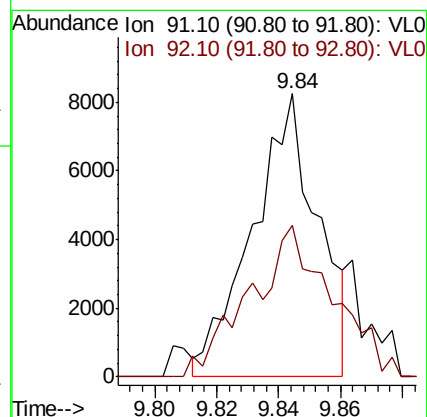
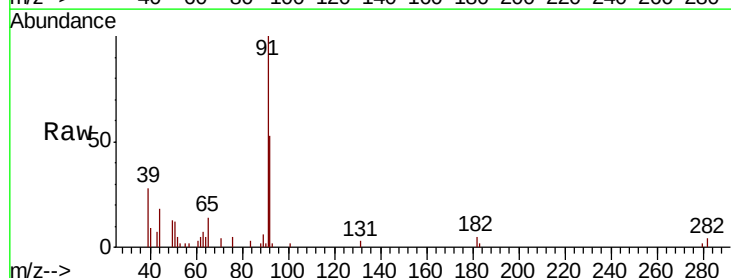
Instrument :
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 LIHA-IAH-DUPDL

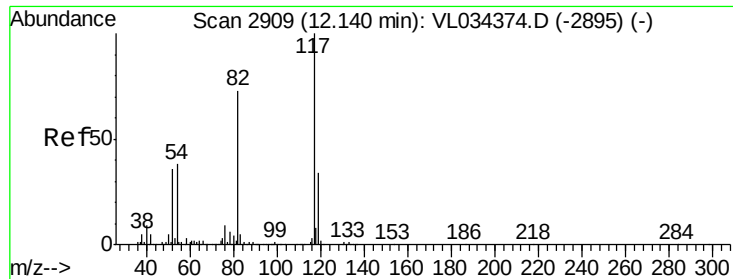
Tgt Ion: 63 Resp: 573761
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 17.2 52.3 78.5#



#53
 Toluene
 Concen: 0.055 ppbv
 RT: 9.84 min Scan# 2195
 Delta R.T. -0.01 min
 Lab File: VL034500.D
 Acq: 17 Dec 2019 19:52

Tgt Ion: 91 Resp: 12054
 Ion Ratio Lower Upper
 91 100
 92 67.8 47.9 71.9

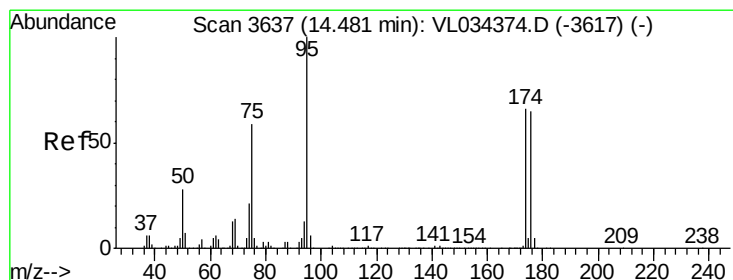
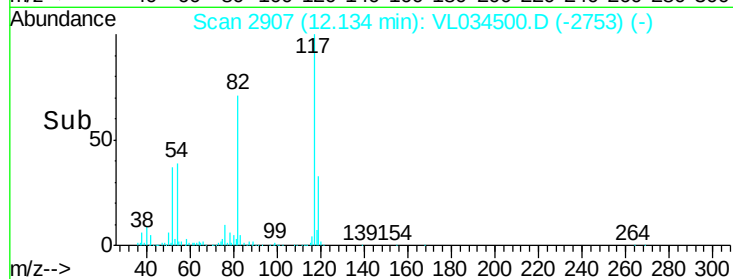
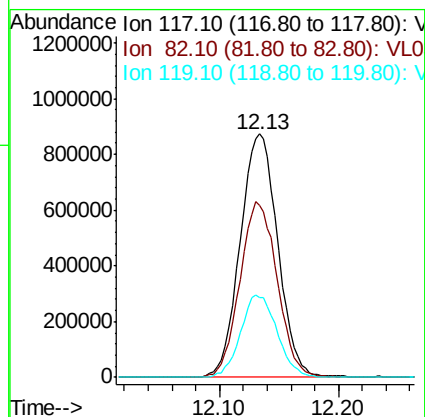
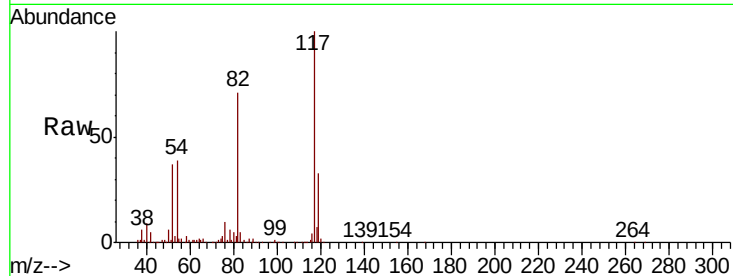




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034500.D
Acq: 17 Dec 2019 19:52

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IAH-DUPDL

Tgt Ion: 117 Resp: 1905327
Ion Ratio Lower Upper
117 100
82 71.7 57.5 86.3
119 33.1 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.144 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034500.D
Acq: 17 Dec 2019 19:52

Tgt Ion: 95 Resp: 1626017
Ion Ratio Lower Upper
95 100
174 65.5 52.2 78.2
175 4.5 3.8 5.8

