

Data File : VL033190.D
Acq On : 13 Feb 2019 17:08
Operator : SY/AP
Sample : K1408-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AB-IADL

Quant Time: Feb 14 04:27:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1037171	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2356232	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2315094	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1858995	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

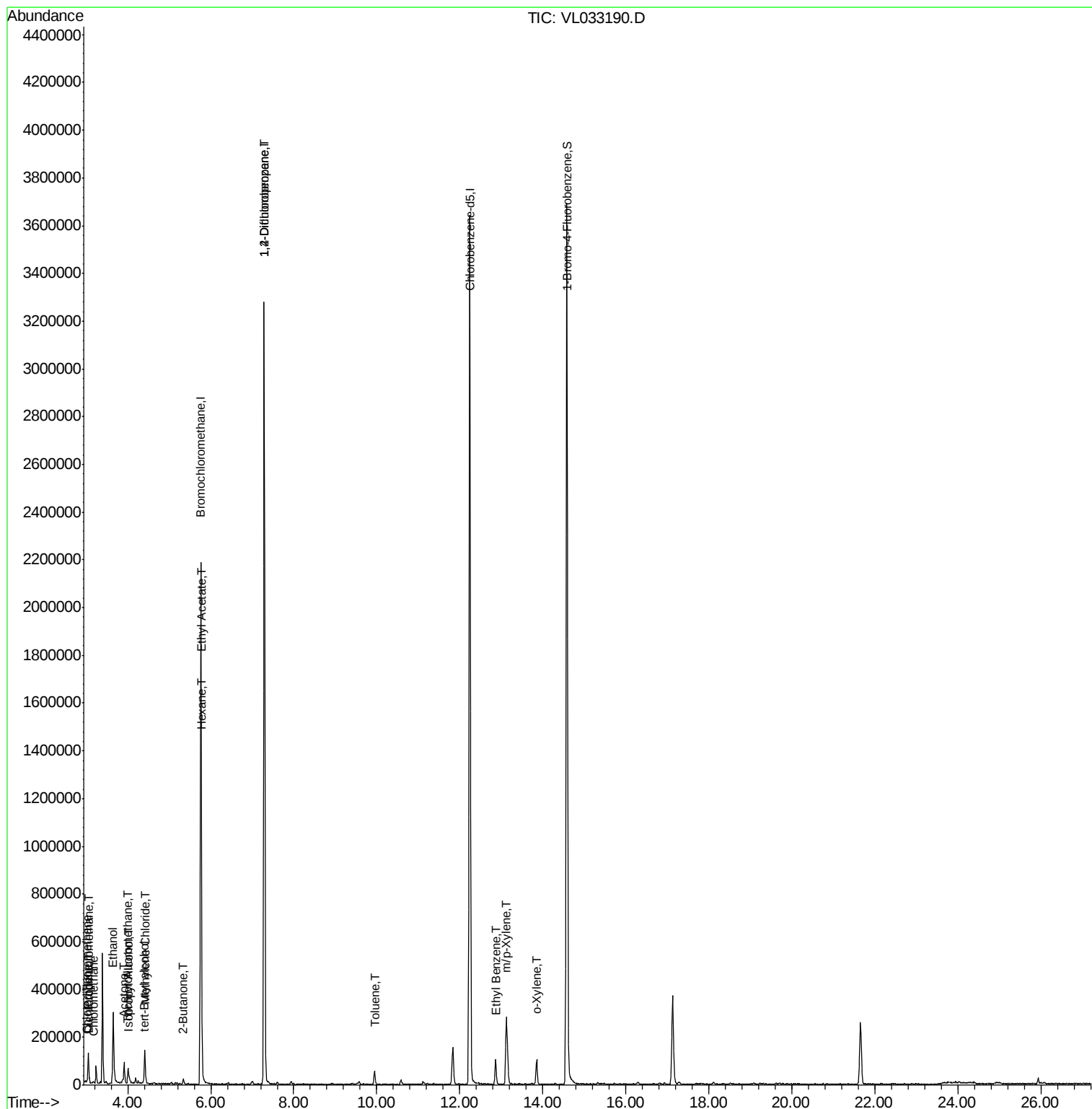
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	11839	0.060	ppbv #	85
3) Chlorodifluoromethane	3.02	51	10141	0.081	ppbv	96
4) Chloromethane	3.17	50	5141	0.078	ppbv #	79
9) Propene	3.05	41	24591	0.408	ppbv #	63
11) Trichlorofluoromethane	4.00	101	37782	0.235	ppbv	94
13) Ethanol	3.65	45	321847	15.999	ppbv	99
15) Acetone	3.91	43	80990	0.693	ppbv	98
17) tert-Butyl alcohol	4.38	59	3204	0.144	ppbv #	91
19) Isopropyl Alcohol	4.03	45	26529	0.335	ppbv #	95
20) Methylene Chloride	4.41	84	46274	0.996	ppbv	92
25) Ethyl Acetate	5.78	43	36858	0.140	ppbv #	79
26) Hexane	5.78	57	22790	0.185	ppbv #	37
34) 2-Butanone	5.34	43	26237	0.176	ppbv	99
39) 1,2-Dichloropropane	7.29	63	623647	6.613	ppbv #	26
53) Toluene	9.95	91	41801	0.148	ppbv	99
58) Ethyl Benzene	12.87	91	88505	0.236	ppbv	92
59) m/p-Xylene	13.12	91	300900	0.962	ppbv #	100
60) o-Xylene	13.85	91	81280	0.267	ppbv	95

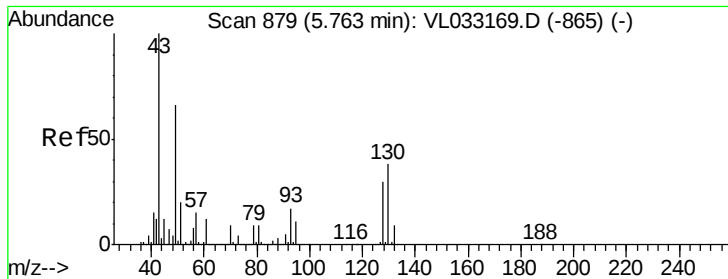
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033190.D

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Instrument :

MSVOA_L

ClientSampleId :

AB-IADL

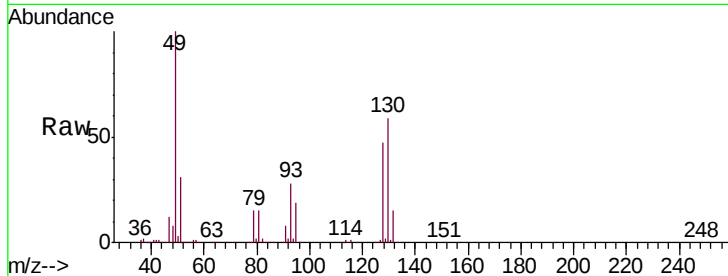
Tgt Ion: 49 Resp: 1037171

Ion Ratio Lower Upper

49 100

128 46.2 23.6 71.0

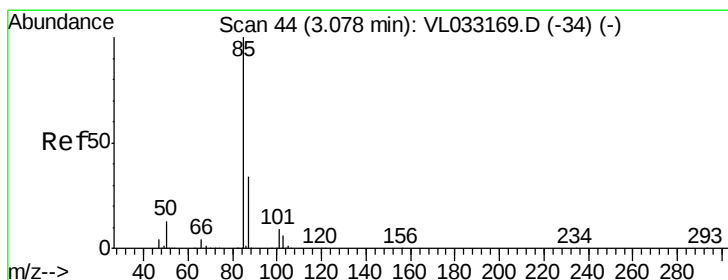
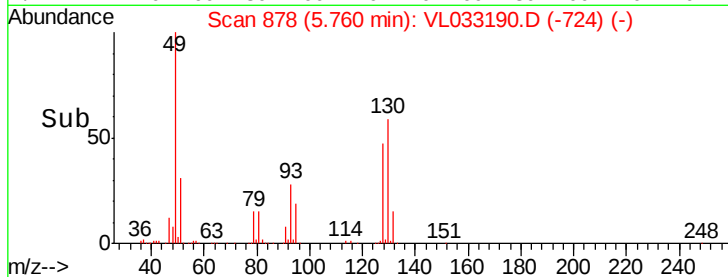
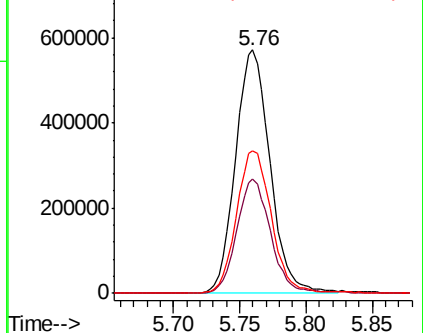
130 59.9 30.3 91.0



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: 0.060 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033190.D

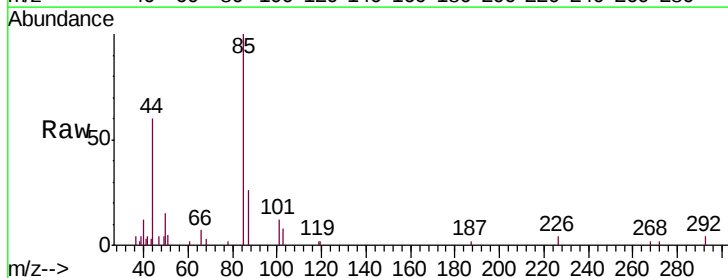
Acq: 13 Feb 2019 17:08

Tgt Ion: 85 Resp: 11839

Ion Ratio Lower Upper

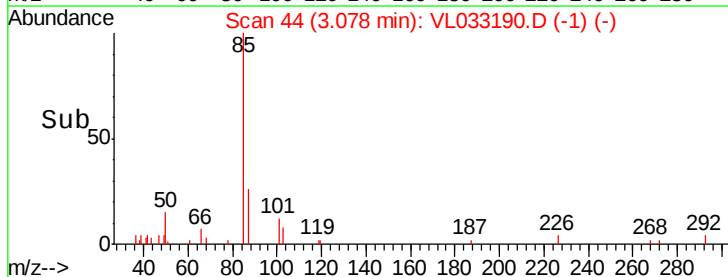
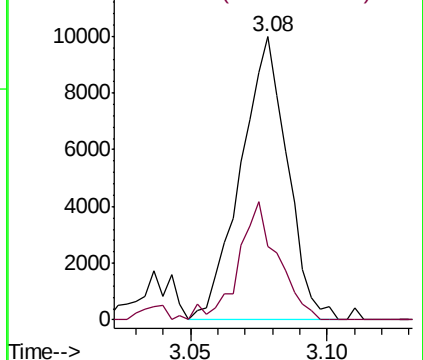
85 100

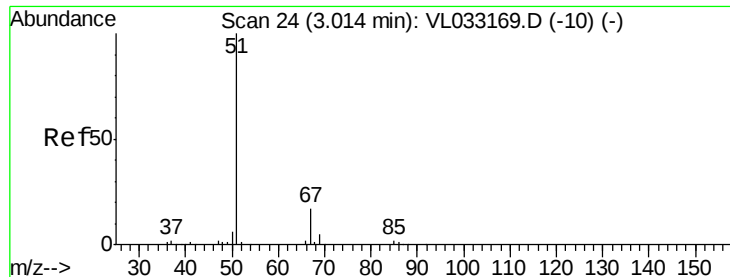
87 25.9 27.4 41.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.081 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Instrument :

MSVOA_L

ClientSampleId :

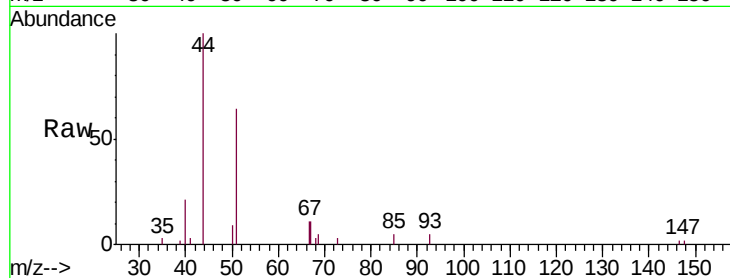
AB-IADL

Tgt Ion: 51 Resp: 10141

Ion Ratio Lower Upper

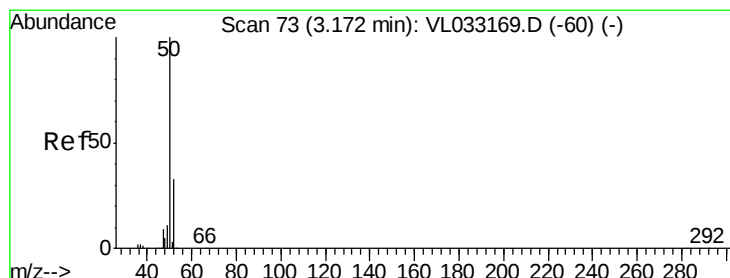
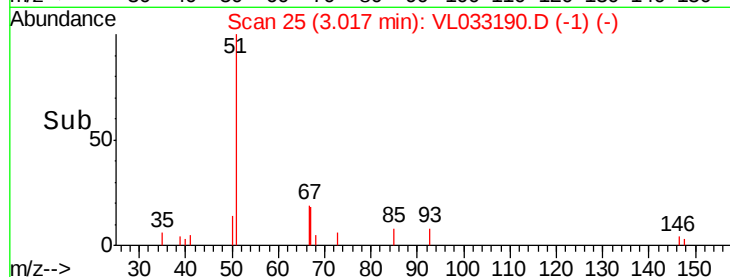
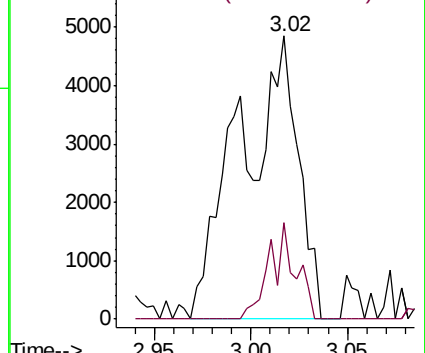
51 100

67 15.6 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.078 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033190.D

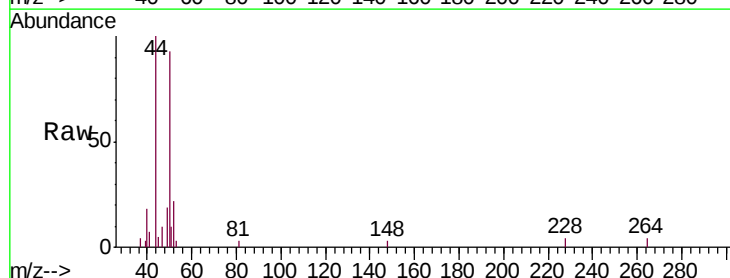
Acq: 13 Feb 2019 17:08

Tgt Ion: 50 Resp: 5141

Ion Ratio Lower Upper

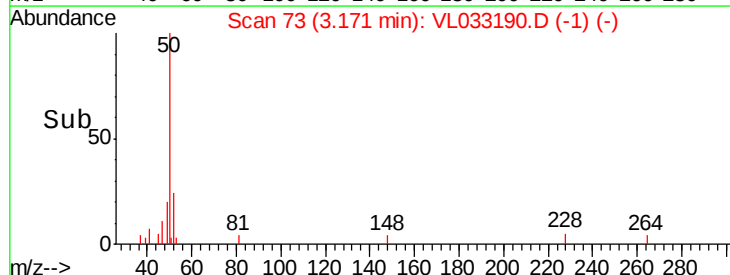
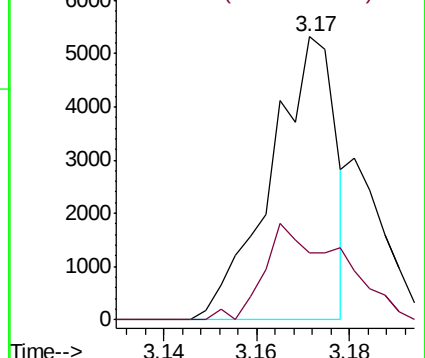
50 100

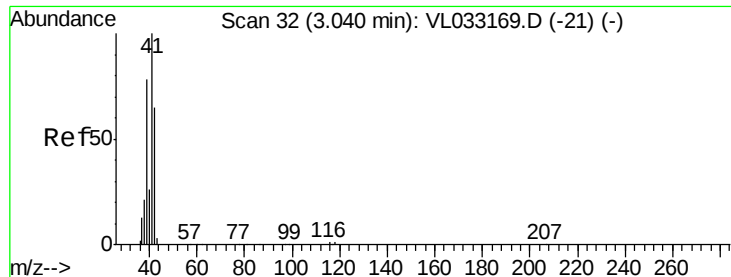
52 21.4 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.408 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Instrument :

MSVOA_L

ClientSampleId :

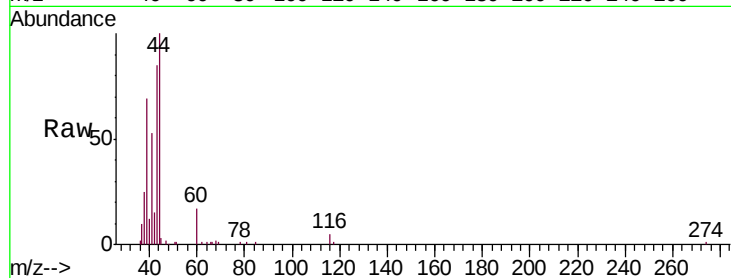
AB-IADL

Tgt Ion: 41 Resp: 24591

Ion Ratio Lower Upper

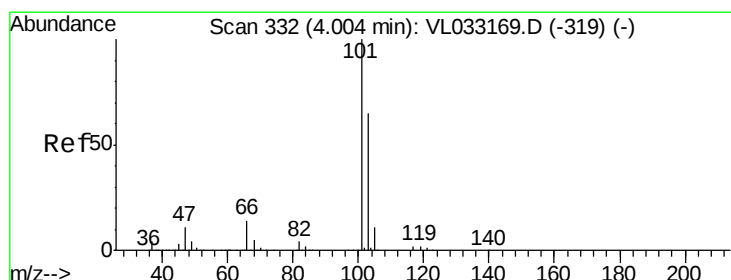
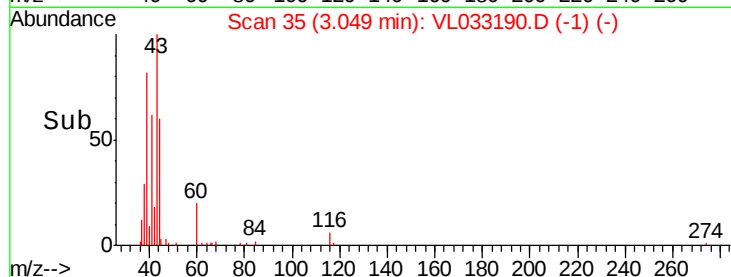
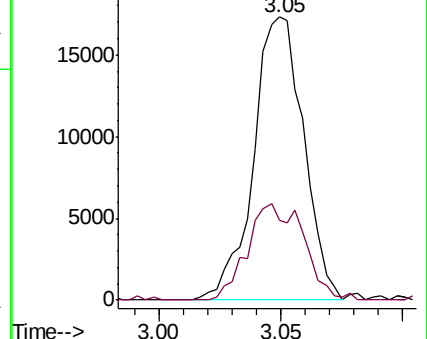
41 100

42 38.6 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.235 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033190.D

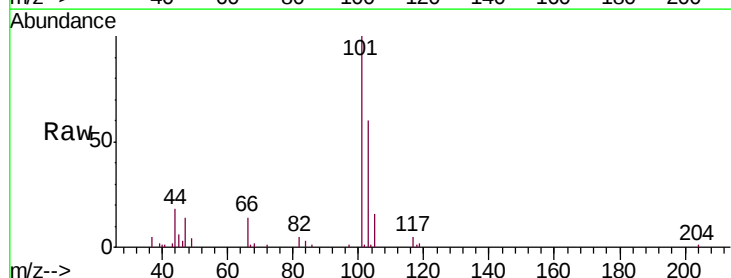
Acq: 13 Feb 2019 17:08

Tgt Ion: 101 Resp: 37782

Ion Ratio Lower Upper

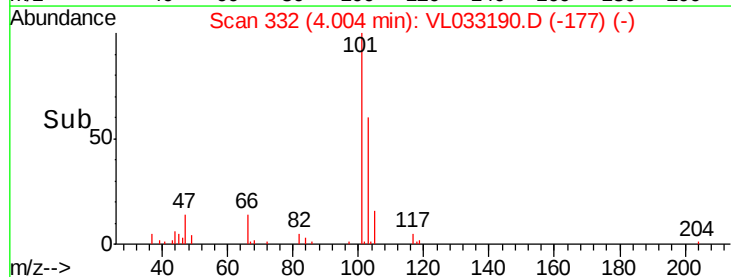
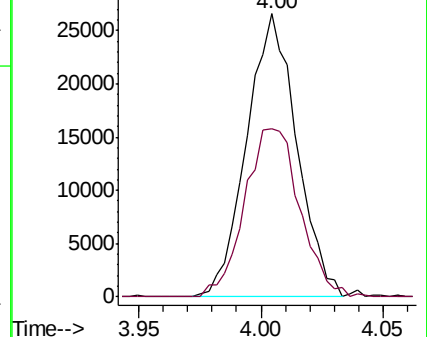
101 100

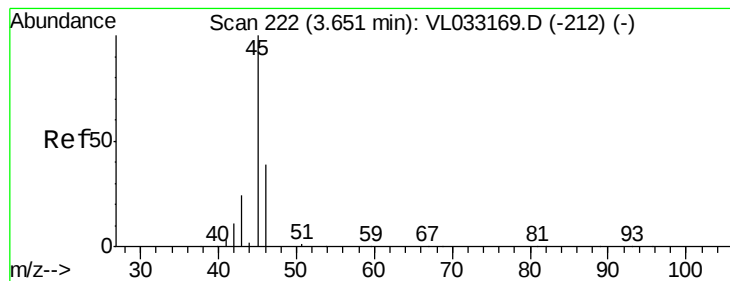
103 59.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 15.999 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Instrument :

MSVOA_L

ClientSampleId :

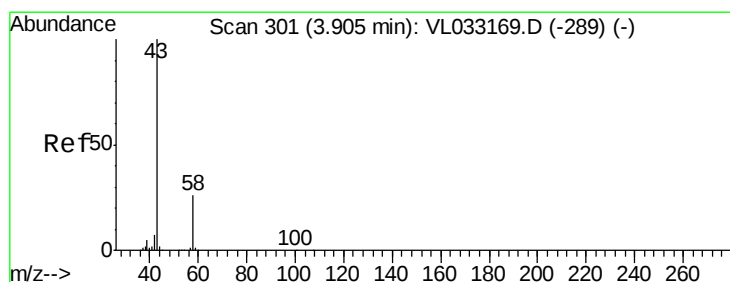
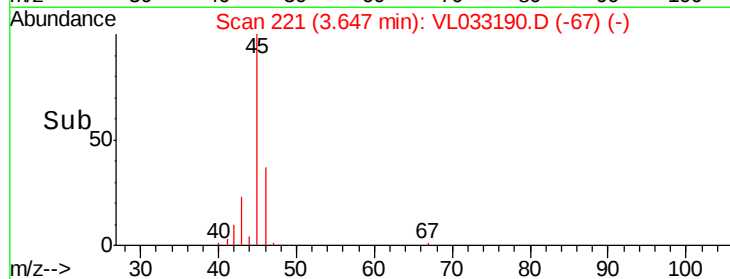
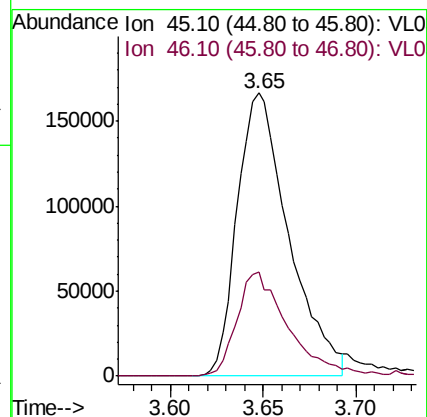
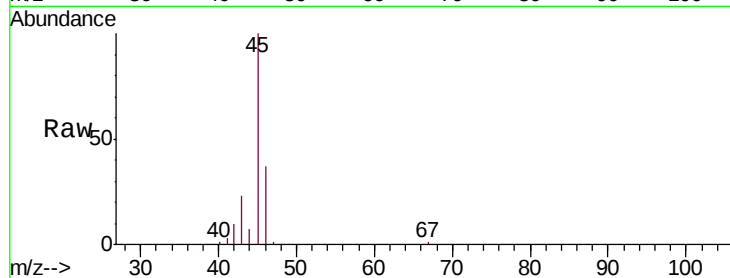
AB-IADL

Tgt Ion: 45 Resp: 321847

Ion Ratio Lower Upper

45 100

46 37.0 15.0 60.2



#15

Acetone

Concen: 0.693 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033190.D

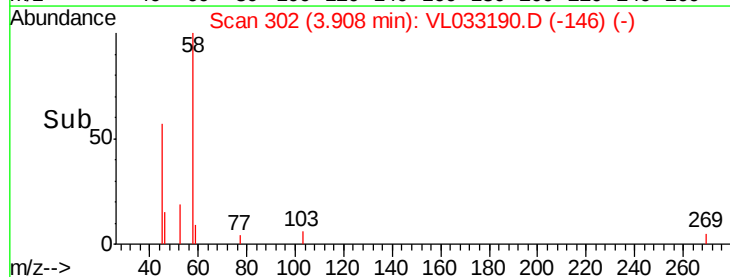
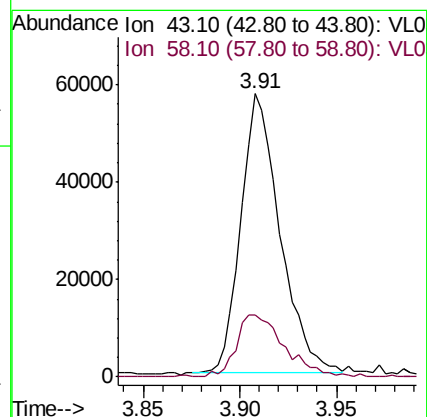
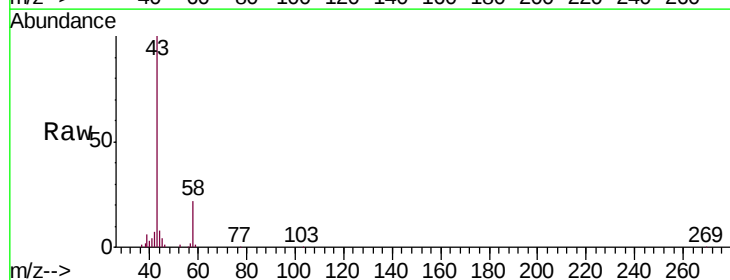
Acq: 13 Feb 2019 17:08

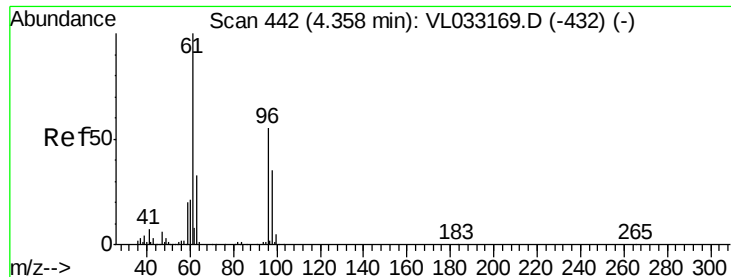
Tgt Ion: 43 Resp: 80990

Ion Ratio Lower Upper

43 100

58 27.4 21.1 31.7



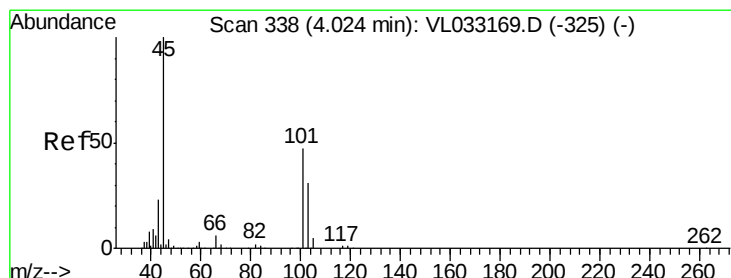
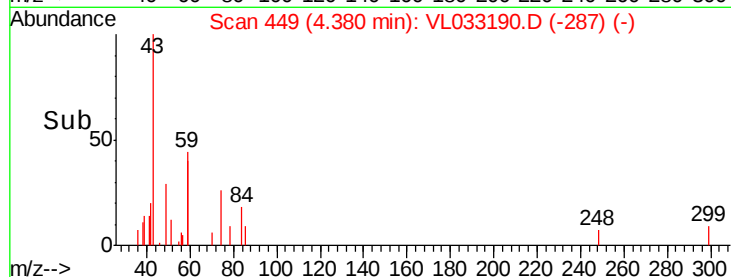
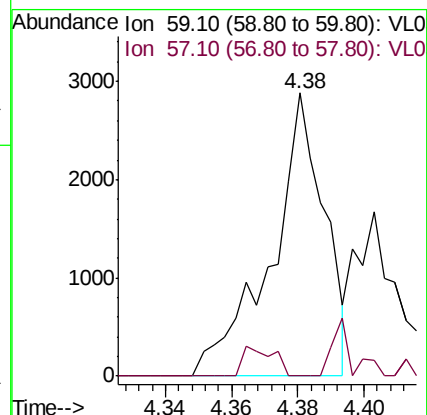
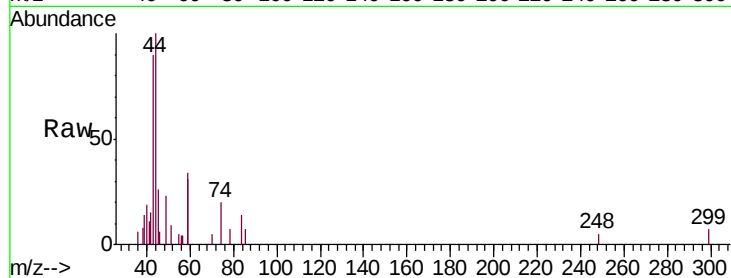


#17

tert-Butyl alcohol
 Concen: 0.144 ppbv
 RT: 4.38 min Scan# 449
 Delta R.T. 0.02 min
 Lab File: VL033190.D
 Acq: 13 Feb 2019 17:08

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IADL

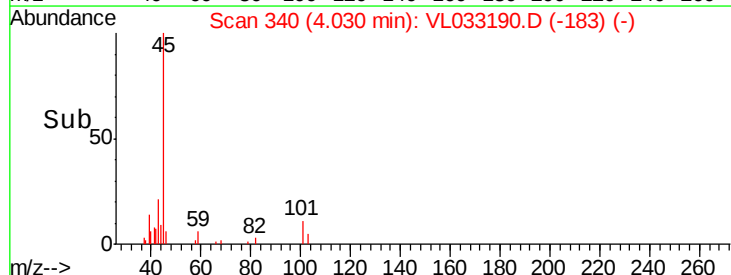
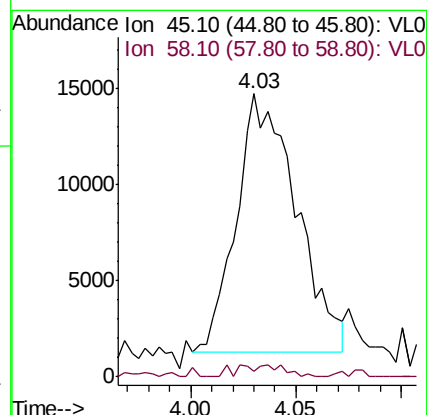
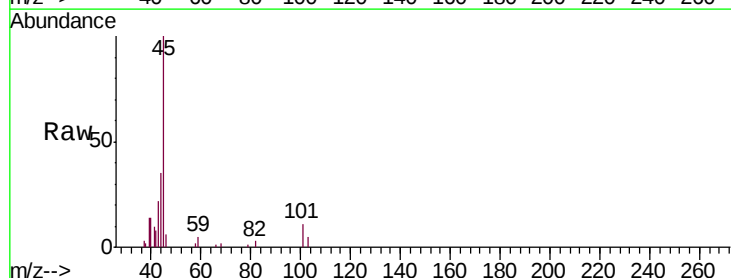
Tgt Ion: 59 Resp: 3204
 Ion Ratio Lower Upper
 59 100
 57 6.0 7.6 11.4#

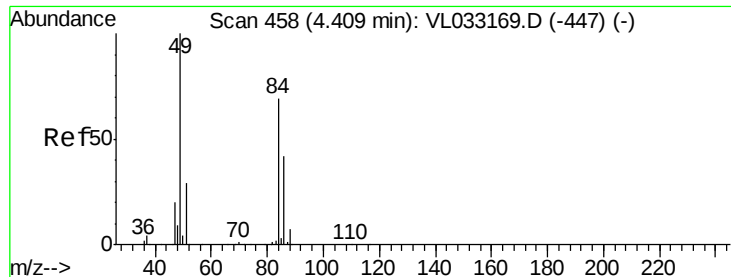


#19

Isopropyl Alcohol
 Concen: 0.335 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.01 min
 Lab File: VL033190.D
 Acq: 13 Feb 2019 17:08

Tgt Ion: 45 Resp: 26529
 Ion Ratio Lower Upper
 45 100
 58 3.6 1.5 2.3#





#20

Methylene Chloride

Concen: 0.996 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Instrument :

MSVOA_L

ClientSampleId :

AB-IADL

Tgt Ion: 84 Resp: 46274

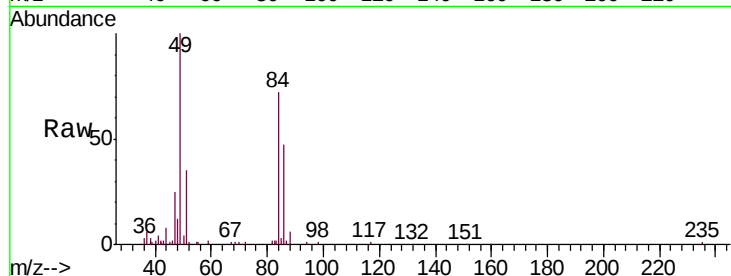
Ion Ratio Lower Upper

84 100

49 138.1 115.8 173.8

51 49.3 33.0 49.6

86 67.4 48.2 72.2

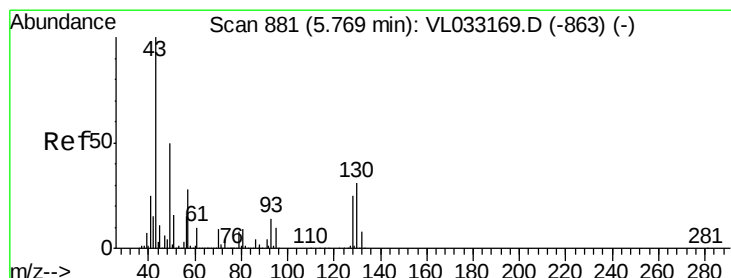
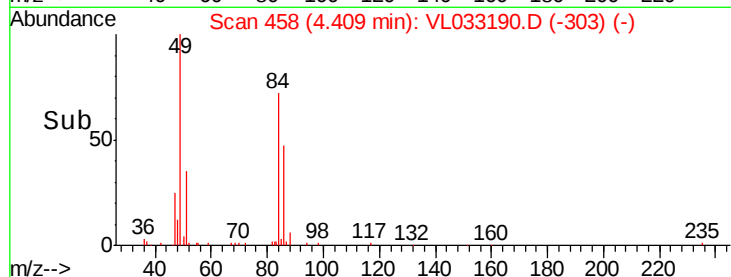
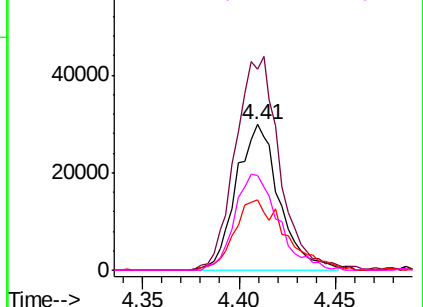


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.140 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Tgt Ion: 43 Resp: 36858

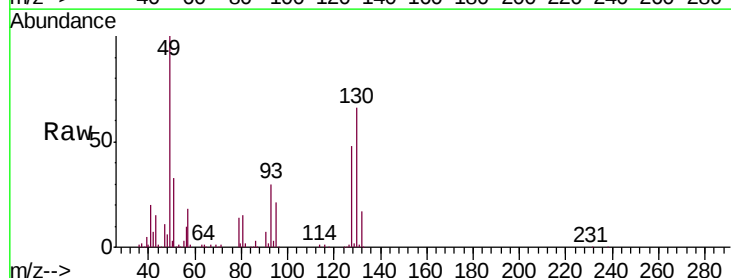
Ion Ratio Lower Upper

43 100

45 2.6 7.9 11.9#

61 0.0 7.5 11.3#

70 1.7 5.8 8.8#

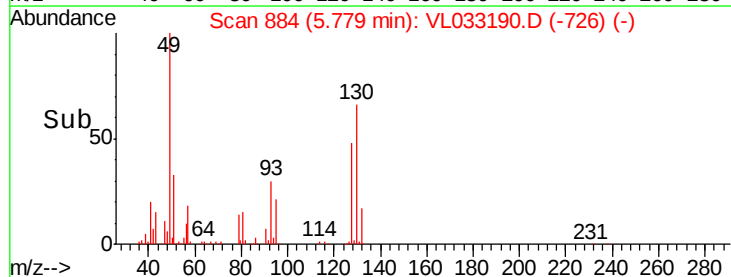
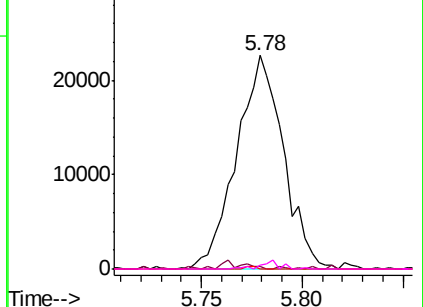


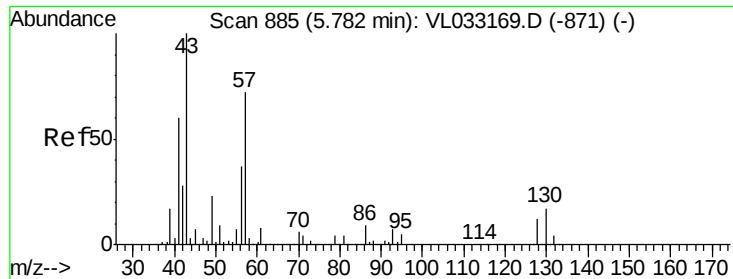
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

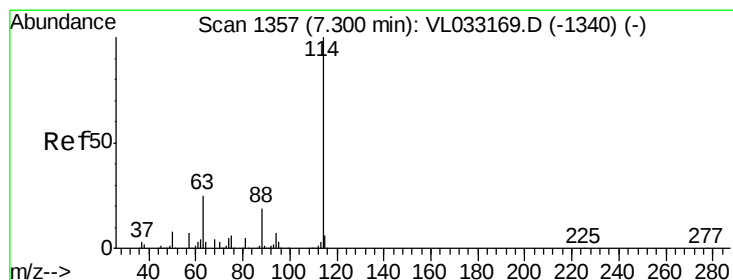
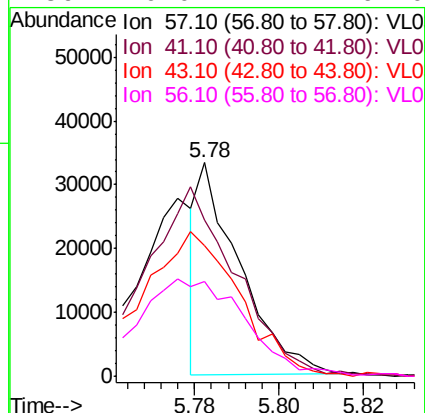
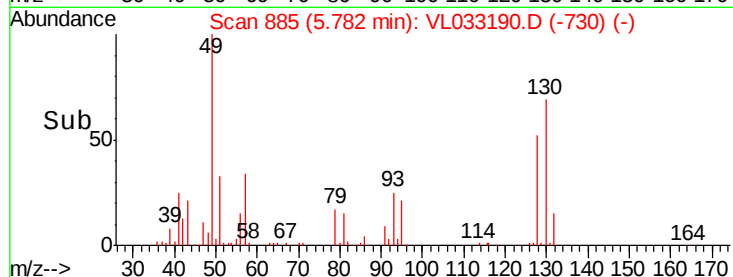
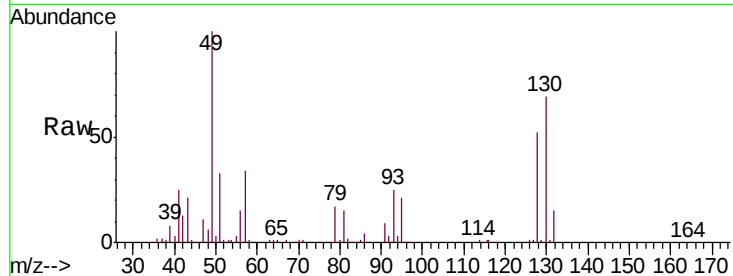




#26
Hexane
Concen: 0.185 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033190.D
Acq: 13 Feb 2019 17:08

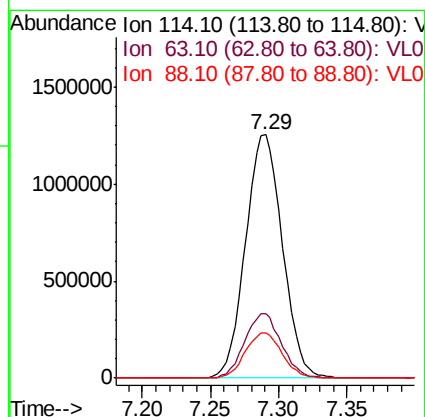
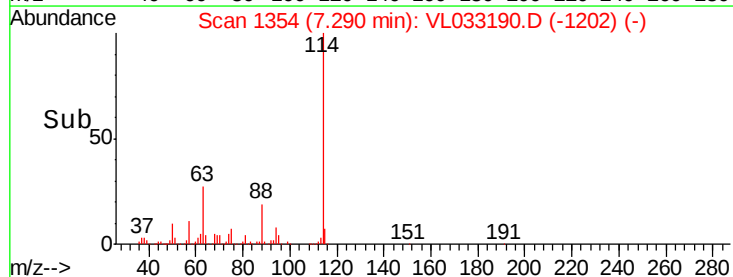
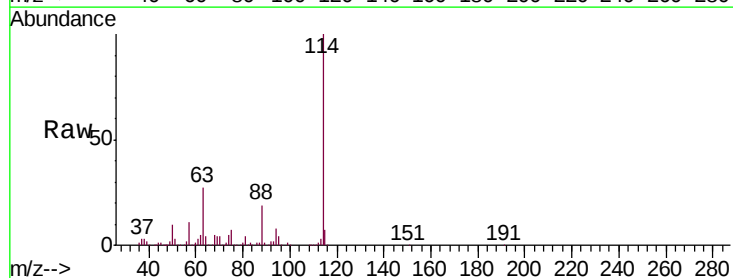
Instrument :
MSVOA_L
ClientSampleId :
AB-IADL

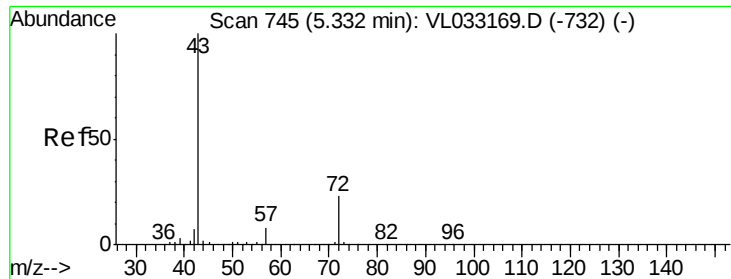
Tgt Ion: 57 Resp: 22790
Ion Ratio Lower Upper
57 100
41 201.7 69.4 104.2#
43 163.1 176.7 265.1#
56 0.0 41.4 62.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033190.D
Acq: 13 Feb 2019 17:08

Tgt Ion: 114 Resp: 2356232
Ion Ratio Lower Upper
114 100
63 26.5 20.8 31.2
88 18.6 14.6 22.0

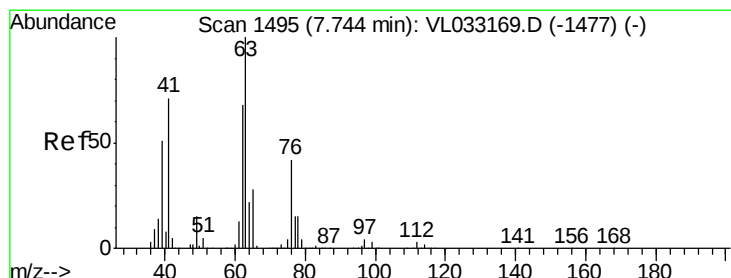
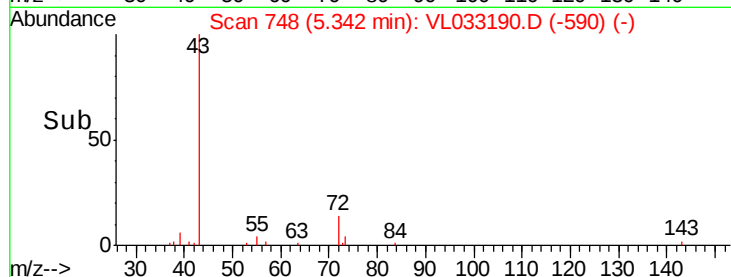
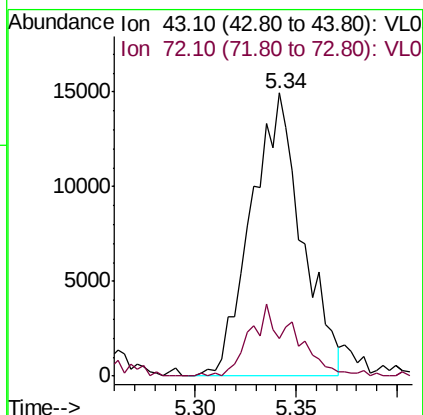
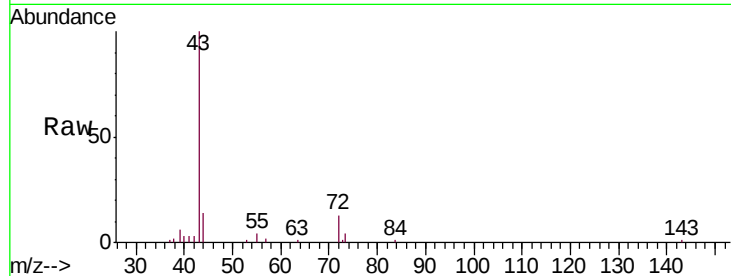




#34
2-Butanone
Concen: 0.176 ppbv
RT: 5.34 min Scan# 748
Delta R.T. 0.01 min
Lab File: VL033190.D
Acq: 13 Feb 2019 17:08

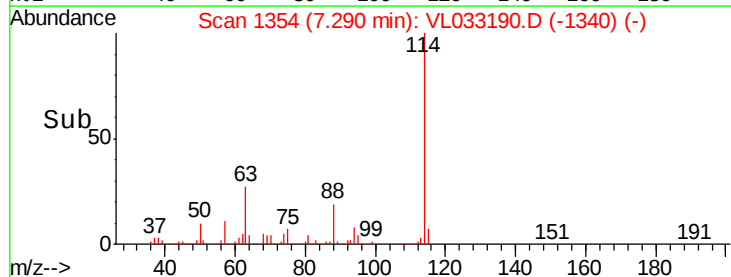
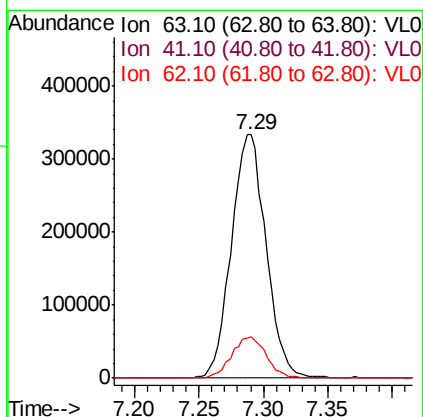
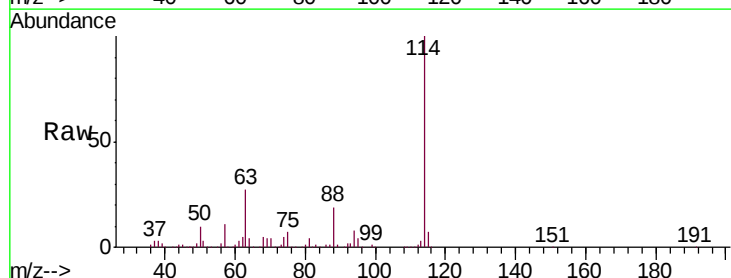
Instrument :
MSVOA_L
ClientSampleId :
AB-IADL

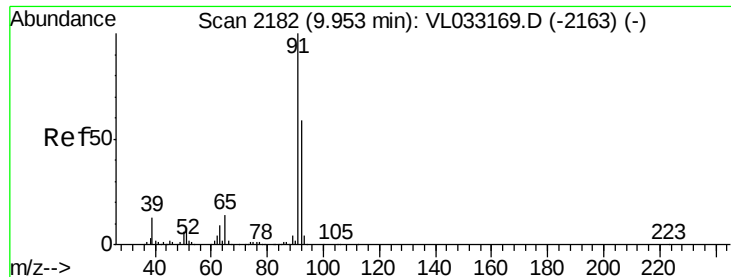
Tgt Ion: 43 Resp: 26237
Ion Ratio Lower Upper
43 100
72 22.6 17.8 26.6



#39
1,2-Dichloropropane
Concen: 6.613 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.45 min
Lab File: VL033190.D
Acq: 13 Feb 2019 17:08

Tgt Ion: 63 Resp: 623647
Ion Ratio Lower Upper
63 100
41 0.0 56.4 84.6#
62 17.0 54.2 81.4#





#53

Toluene

Concen: 0.148 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Instrument :

MSVOA_L

ClientSampleId :

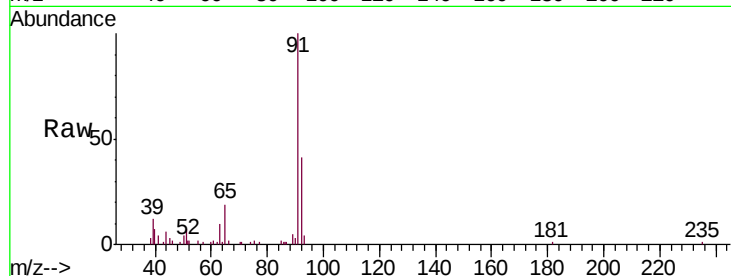
AB-IADL

Tgt Ion: 91 Resp: 41801

Ion Ratio Lower Upper

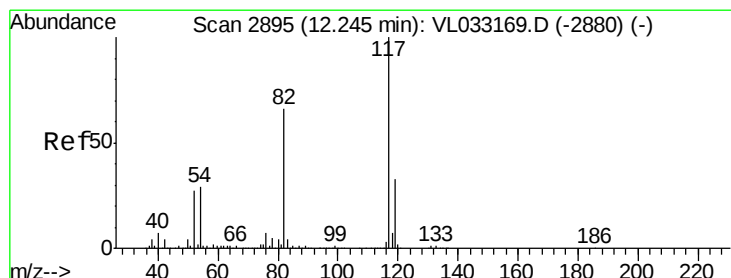
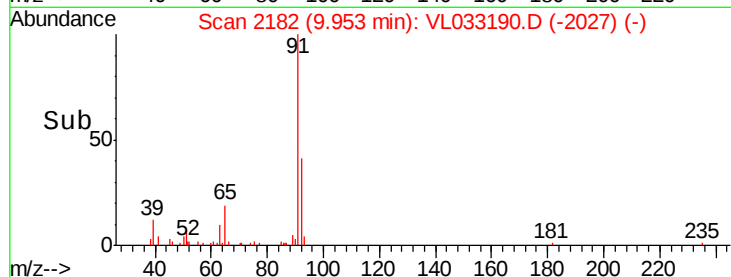
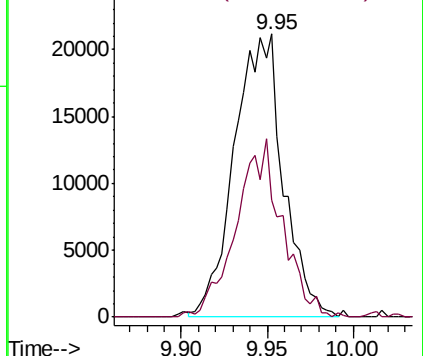
91 100

92 59.1 48.0 72.0



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: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

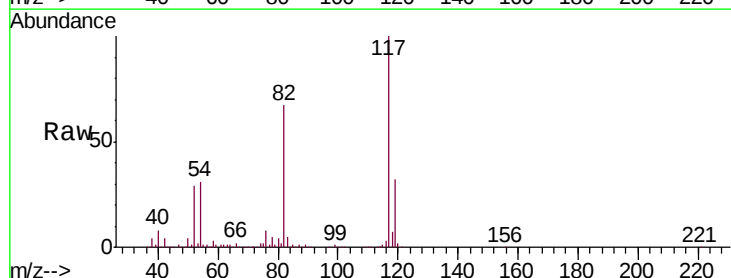
Tgt Ion: 117 Resp: 2315094

Ion Ratio Lower Upper

117 100

82 66.9 49.5 74.3

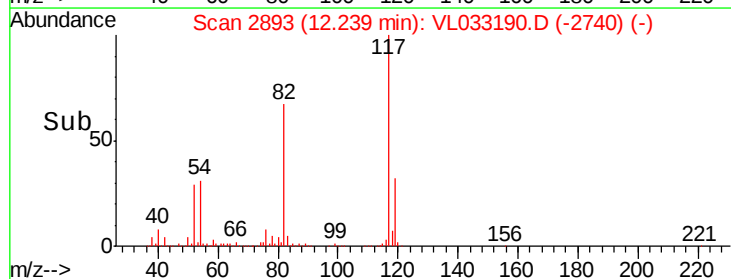
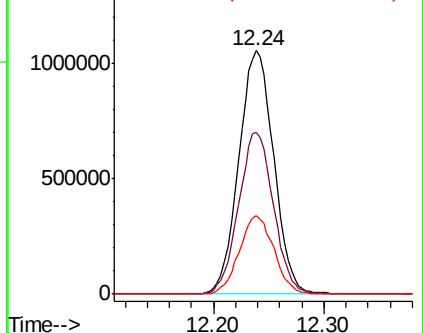
119 32.0 24.4 36.6

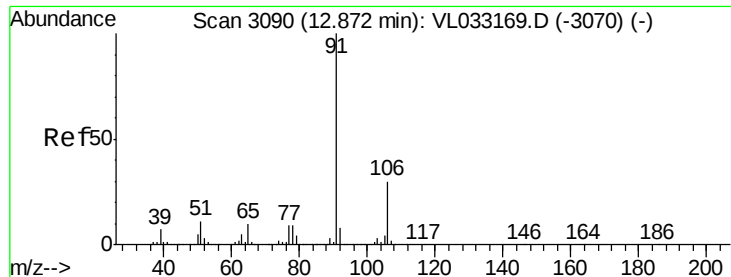


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.236 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033190.D

Acq: 13 Feb 2019 17:08

Instrument :

MSVOA_L

ClientSampleId :

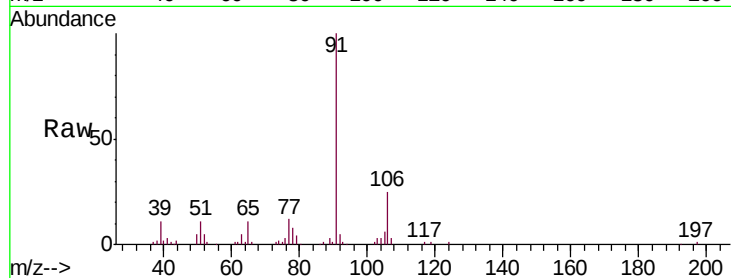
AB-IADL

Tgt Ion: 91 Resp: 88505

Ion Ratio Lower Upper

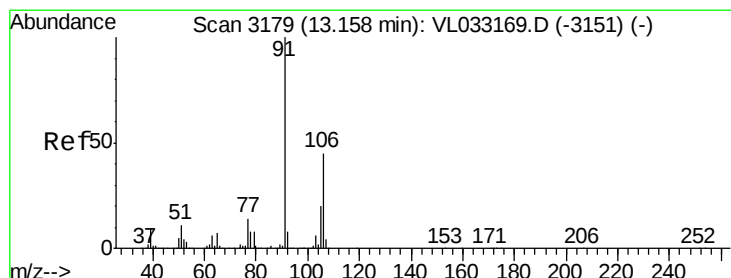
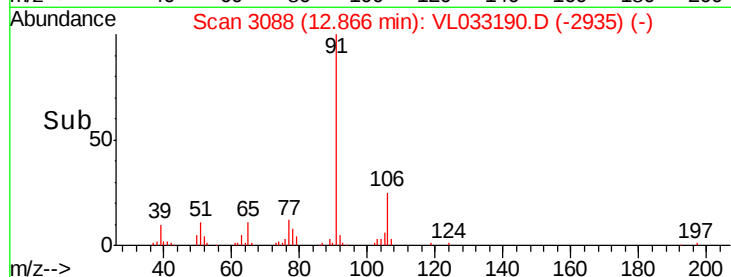
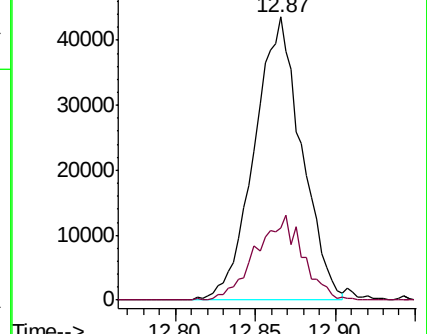
91 100

106 25.3 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.962 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.04 min

Lab File: VL033190.D

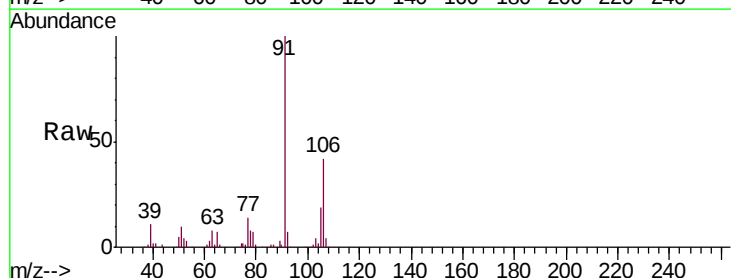
Acq: 13 Feb 2019 17:08

Tgt Ion: 91 Resp: 300900

Ion Ratio Lower Upper

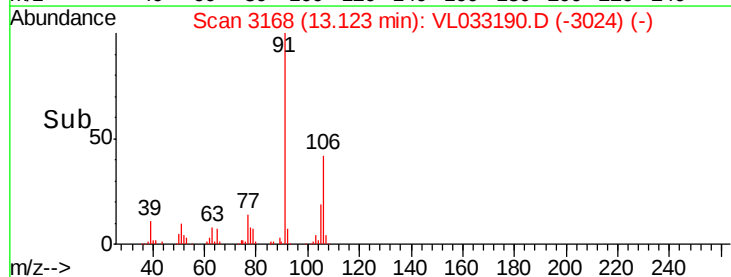
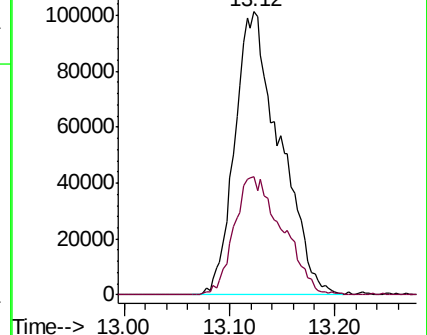
91 100

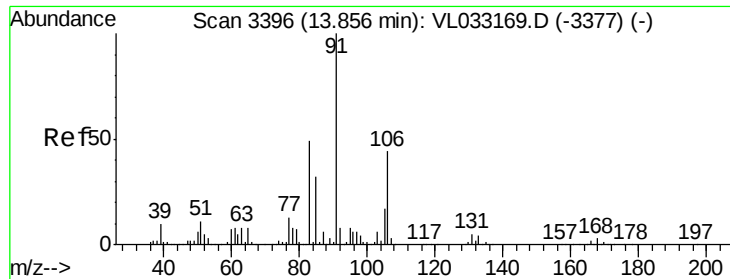
106 44.5 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

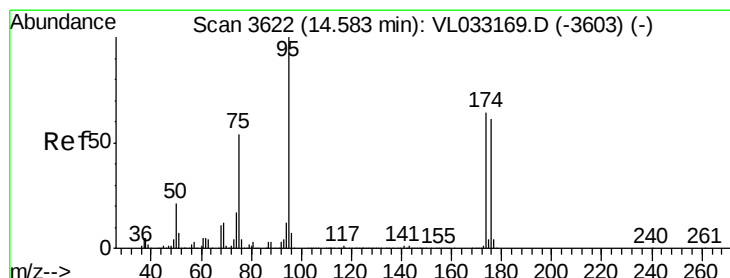
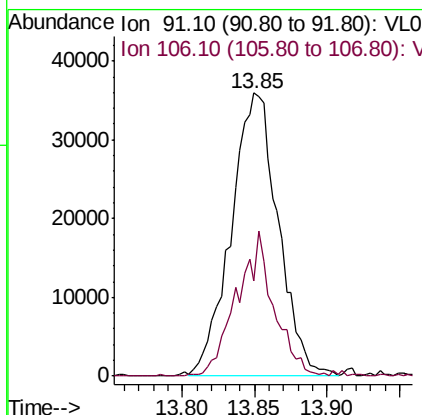
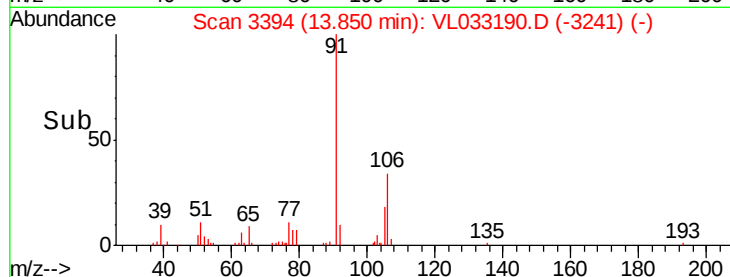
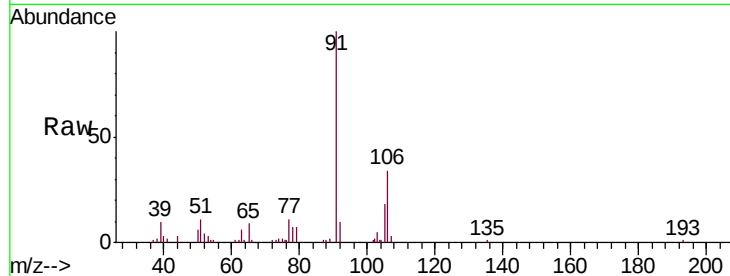




#60
o-Xylene
Concen: 0.267 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033190.D
Acq: 13 Feb 2019 17:08

Instrument :
MSVOA_L
ClientSampleId :
AB-IADL

Tgt Ion: 91 Resp: 81280
Ion Ratio Lower Upper
91 100
106 40.4 21.8 65.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.426 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033190.D
Acq: 13 Feb 2019 17:08

Tgt Ion: 95 Resp: 1858995
Ion Ratio Lower Upper
95 100
174 64.2 51.2 76.8
175 4.6 3.8 5.6

