

Data File : VL033291.D
Acq On : 12 Mar 2019 20:19
Operator : SY/AP
Sample : K1805-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1DL

Quant Time: Mar 13 07:55:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	800869	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1776305	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1798245	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1432627	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

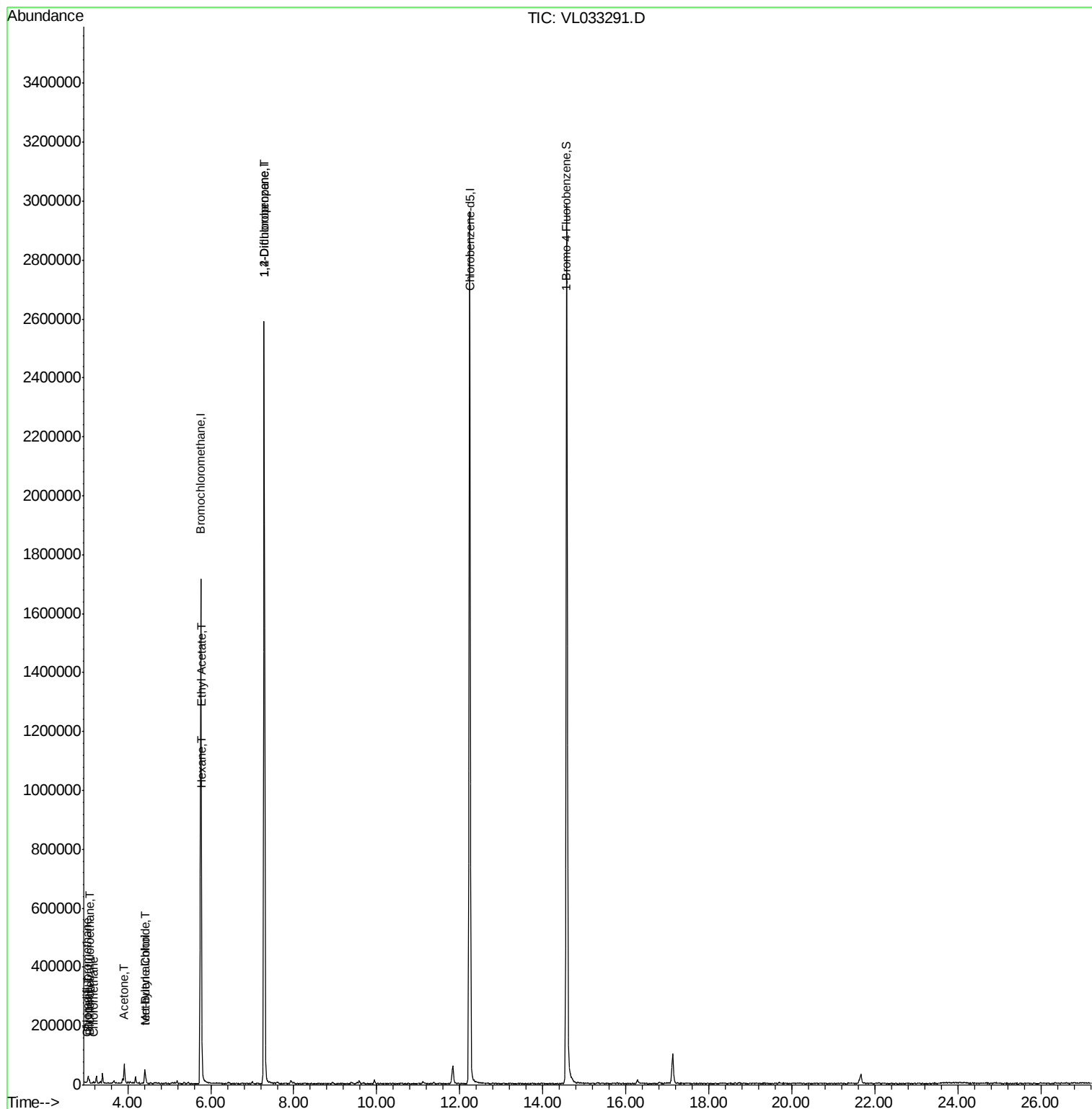
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	4655	0.044	ppbv	93
4) Chloromethane	3.17	50	2318	0.041	ppbv #	65
8) Dichlorotetrafluoroethane	3.08	85	7304	0.053	ppbv #	17
9) Propene	3.04	41	1182	0.024	ppbv #	16
15) Acetone	3.91	43	33597	0.273	ppbv #	59
17) tert-Butyl alcohol	4.40	59	395	0.024	ppbv #	74
20) Methylene Chloride	4.41	84	13965	0.342	ppbv	93
25) Ethyl Acetate	5.78	43	5044	0.027	ppbv #	80
26) Hexane	5.78	57	4388	0.049	ppbv #	28
39) 1,2-Dichloropropane	7.29	63	491441	7.972	ppbv #	24

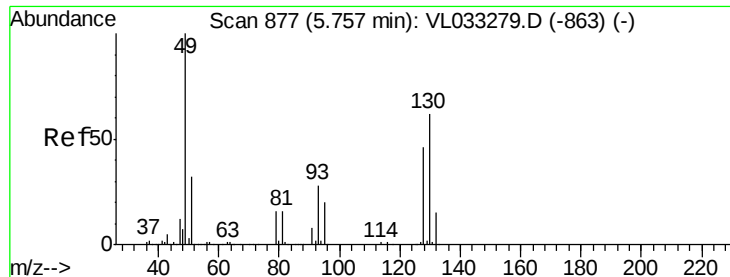
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033291.D

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Instrument :

MSVOA_L

ClientSampleId :

ST-OA-1DL

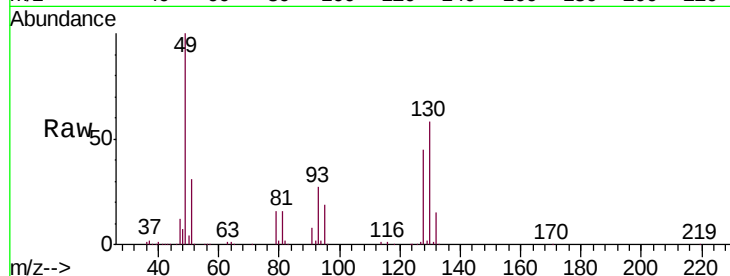
Tgt Ion: 49 Resp: 800869

Ion Ratio Lower Upper

49 100

128 46.3 23.3 69.9

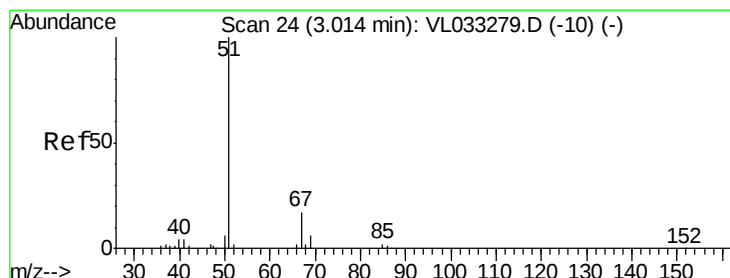
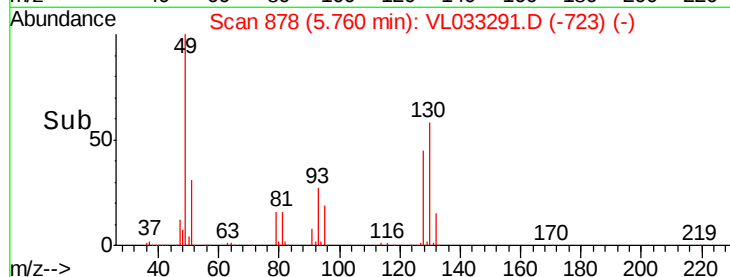
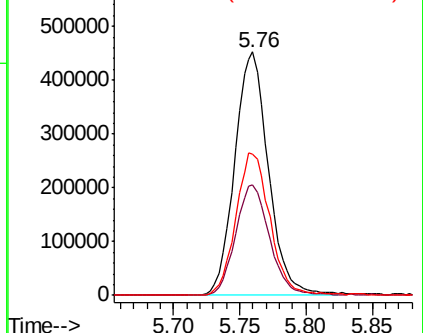
130 59.6 30.0 90.1



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: 0.044 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033291.D

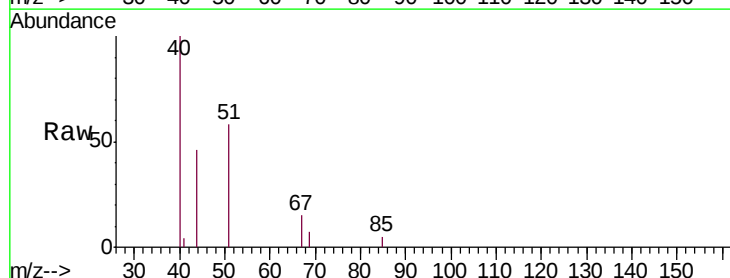
Acq: 12 Mar 2019 20:19

Tgt Ion: 51 Resp: 4655

Ion Ratio Lower Upper

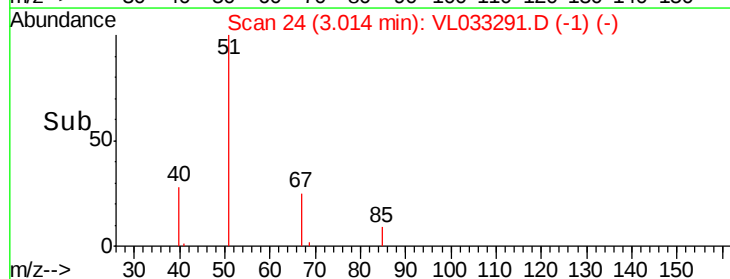
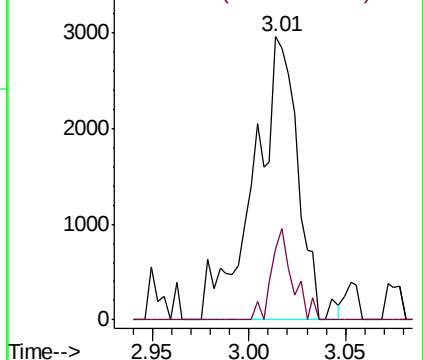
51 100

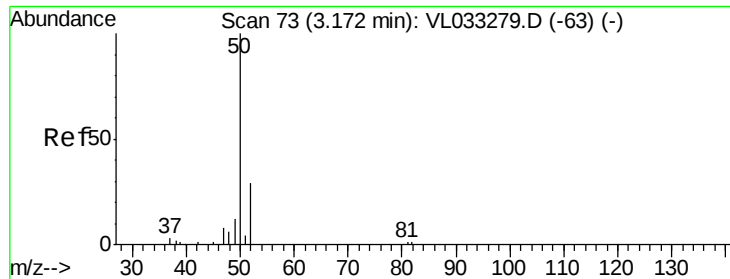
67 15.4 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.041 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033291.D

Acq: 12 Mar 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

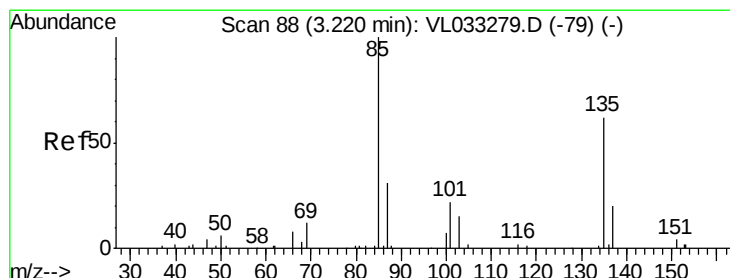
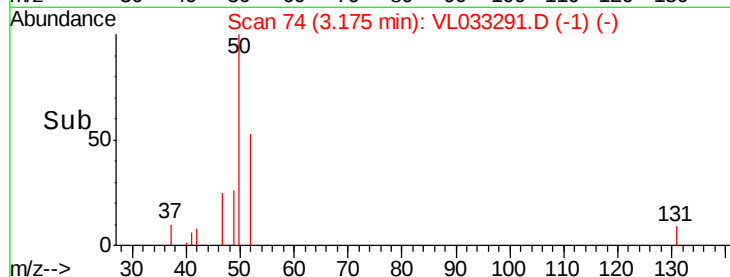
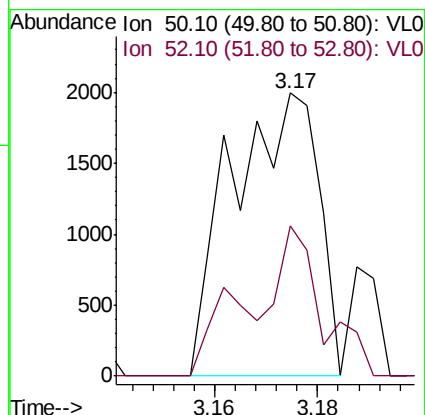
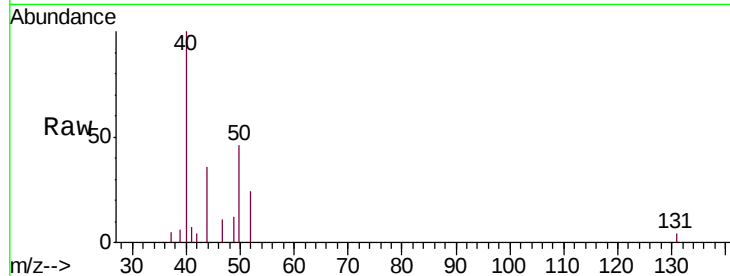
ST-OA-1DL

Tgt Ion: 50 Resp: 2318

Ion Ratio Lower Upper

50 100

52 53.1 26.6 39.8#



#8

Dichlorotetrafluoroethane

Concen: 0.053 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.14 min

Lab File: VL033291.D

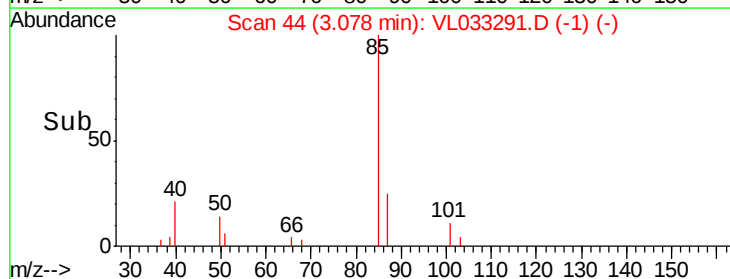
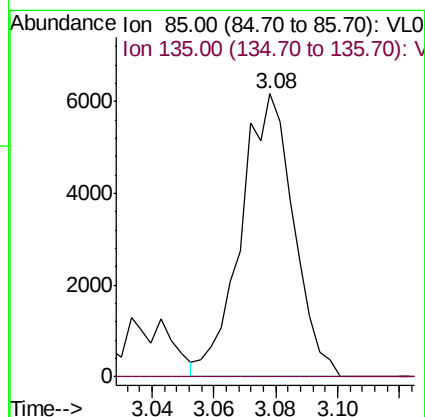
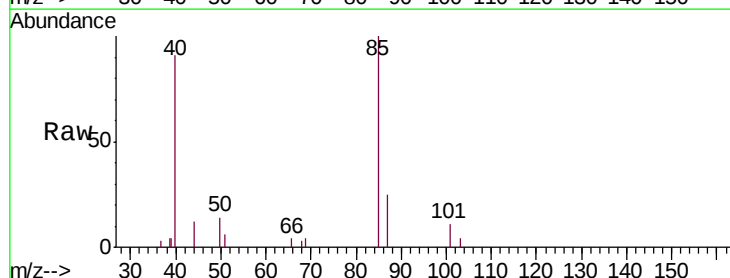
Acq: 12 Mar 2019 20:19

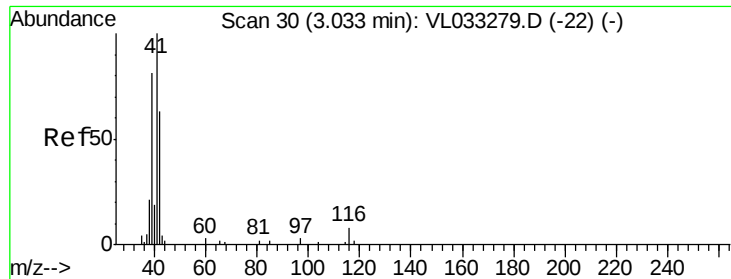
Tgt Ion: 85 Resp: 7304

Ion Ratio Lower Upper

85 100

135 0.0 53.4 80.2#





#9

Propene

Concen: 0.024 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033291.D

Acq: 12 Mar 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

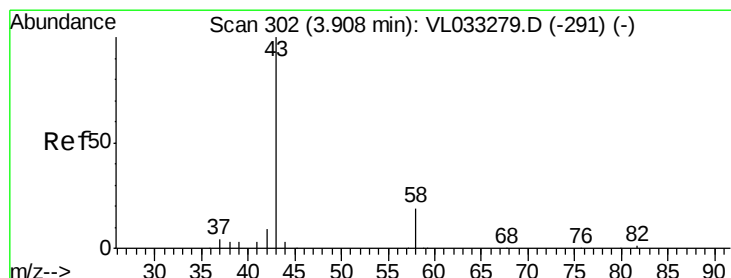
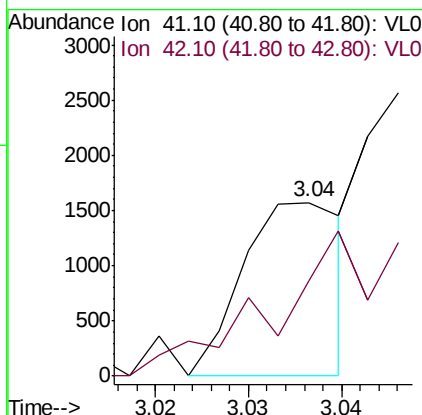
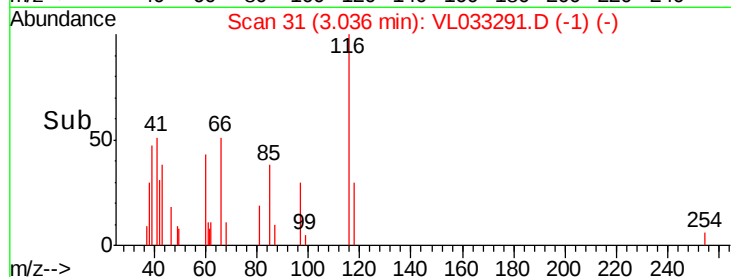
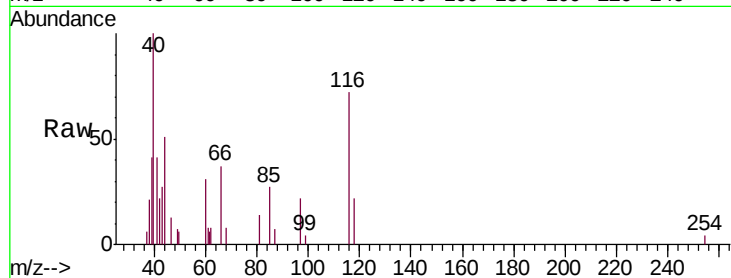
ST-OA-1DL

Tgt Ion: 41 Resp: 1182

Ion Ratio Lower Upper

41 100

42 0.0 54.6 82.0#



#15

Acetone

Concen: 0.273 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033291.D

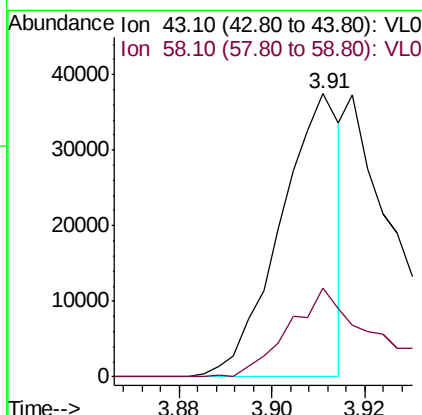
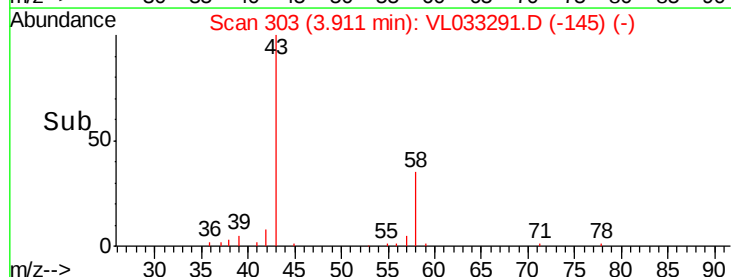
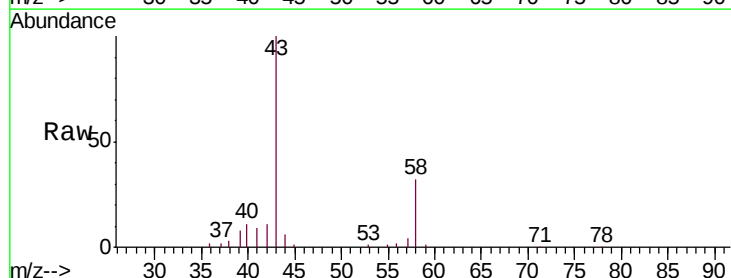
Acq: 12 Mar 2019 20:19

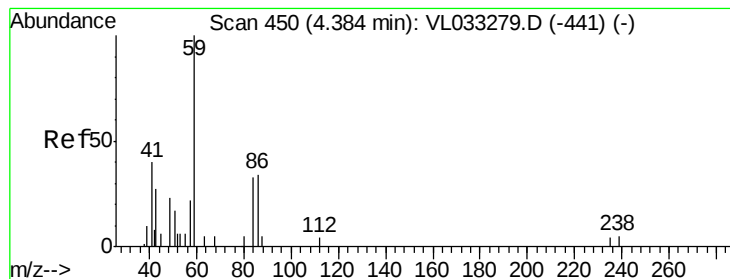
Tgt Ion: 43 Resp: 33597

Ion Ratio Lower Upper

43 100

58 47.2 21.1 31.7#





#17

tert-Butyl alcohol

Concen: 0.024 ppbv

RT: 4.40 min Scan# 456

Delta R.T. 0.05 min

Lab File: VL033291.D

Acq: 12 Mar 2019 20:19

Instrument :

MSVOA_L

ClientSampled :

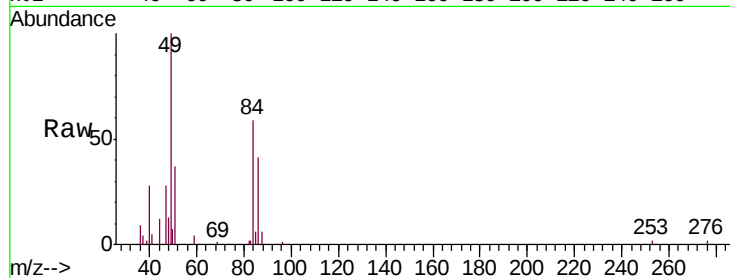
ST-OA-1DL

Tgt Ion: 59 Resp: 395

Ion Ratio Lower Upper

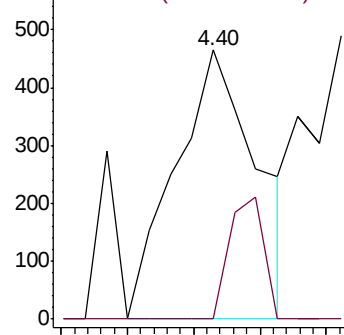
59 100

57 0.0 7.5 11.3#

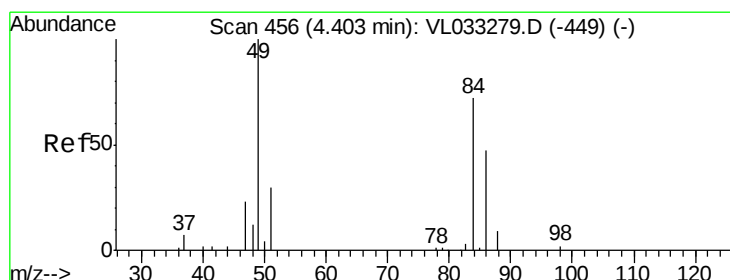
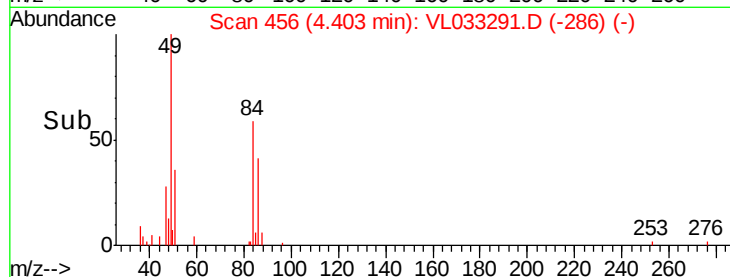


Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time--> 4.38 4.39 4.40 4.41 4.42



#20

Methylene Chloride

Concen: 0.342 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033291.D

Acq: 12 Mar 2019 20:19

Tgt Ion: 84 Resp: 13965

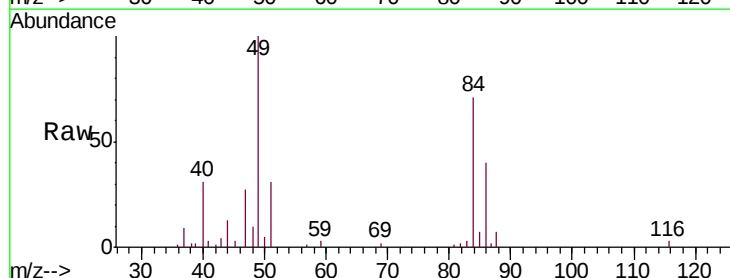
Ion Ratio Lower Upper

84 100

49 140.2 120.3 180.5

51 44.0 36.2 54.4

86 59.0 52.5 78.7

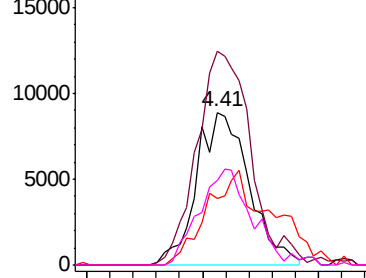


Abundance Ion 84.00 (83.70 to 84.70): VL0

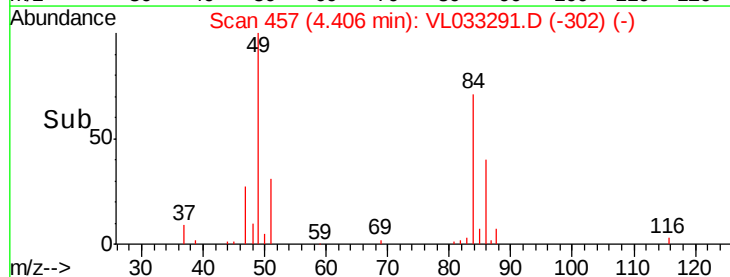
Ion 49.10 (48.80 to 49.80): VL0

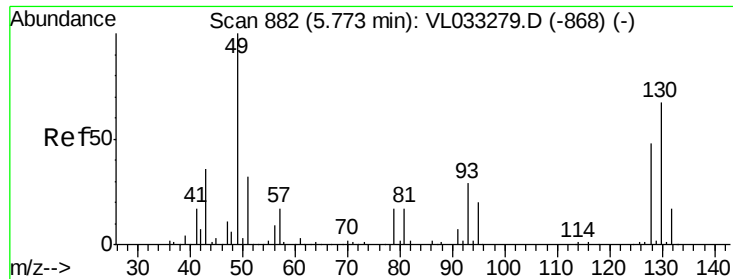
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



Time--> 4.35 4.40 4.45

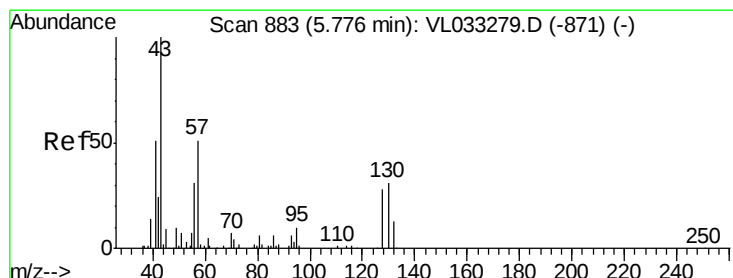
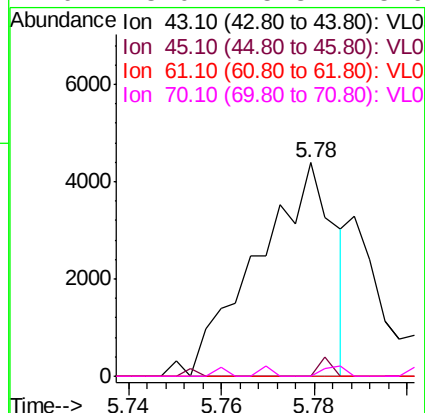
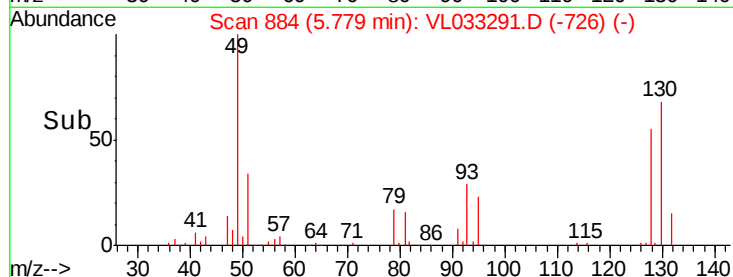
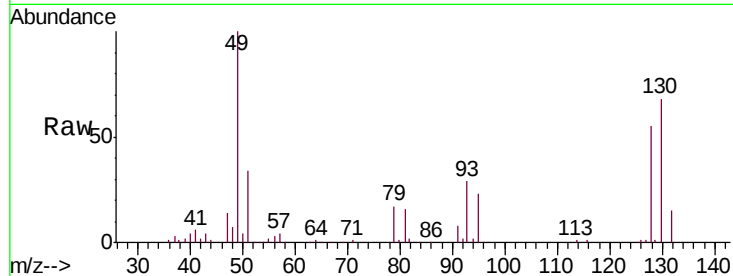




#25
Ethyl Acetate
Concen: 0.027 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033291.D
Acq: 12 Mar 2019 20:19

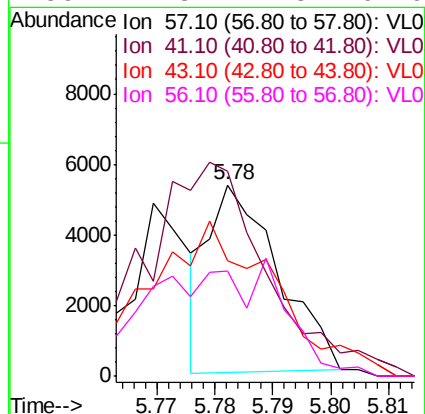
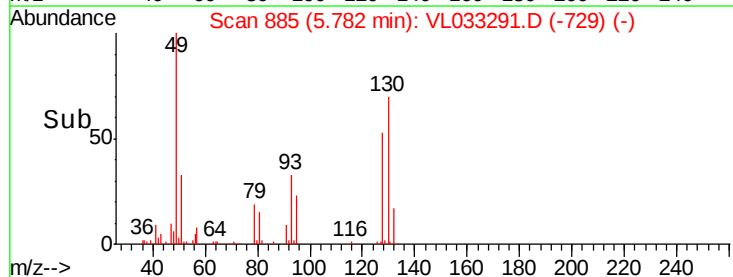
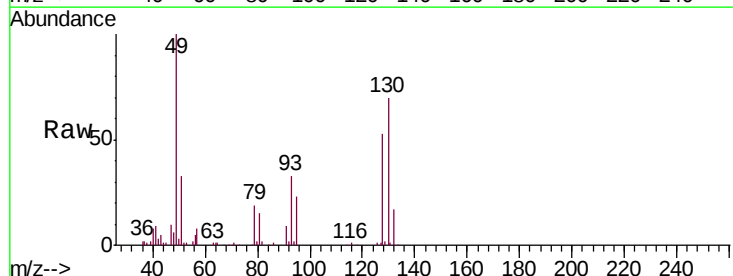
Instrument :
MSVOA_L
ClientSampleId :
ST-OA-1DL

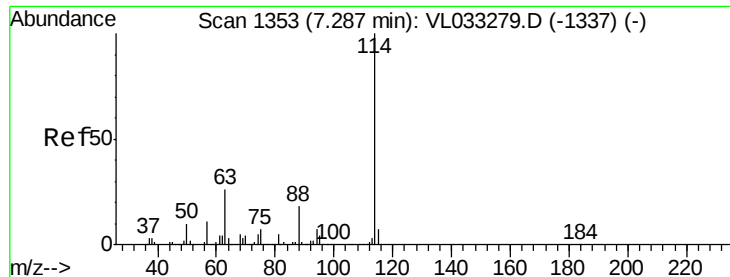
Tgt Ion: 43 Resp: 5044
Ion Ratio Lower Upper
43 100
45 2.2 7.8 11.6#
61 0.0 7.3 10.9#
70 3.0 5.8 8.6#



#26
Hexane
Concen: 0.049 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033291.D
Acq: 12 Mar 2019 20:19

Tgt Ion: 57 Resp: 4388
Ion Ratio Lower Upper
57 100
41 213.0 70.7 106.1#
43 157.7 178.6 267.8#
56 122.3 41.3 61.9#

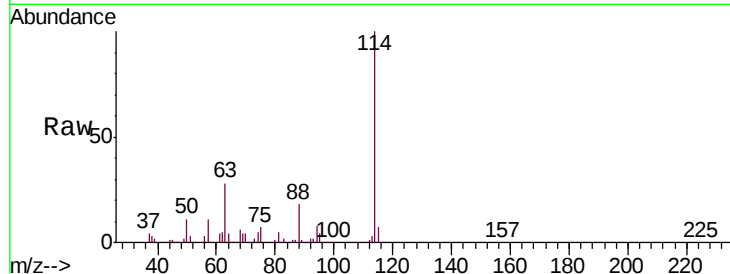




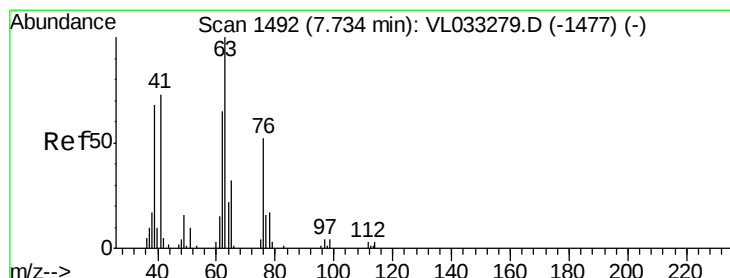
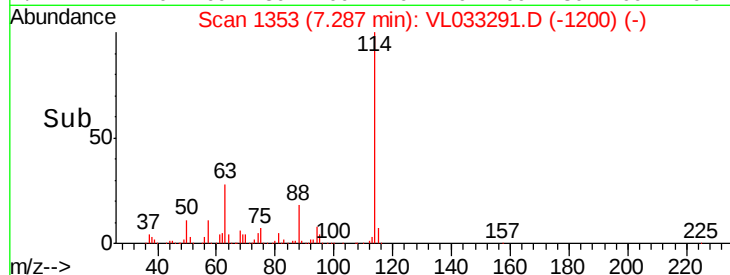
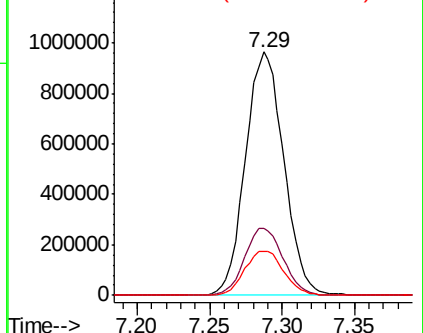
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033291.D
 Acq: 12 Mar 2019 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-OA-1DL

Tgt Ion: 114 Resp: 1776305
 Ion Ratio Lower Upper
 114 100
 63 27.7 21.5 32.3
 88 18.8 14.6 22.0

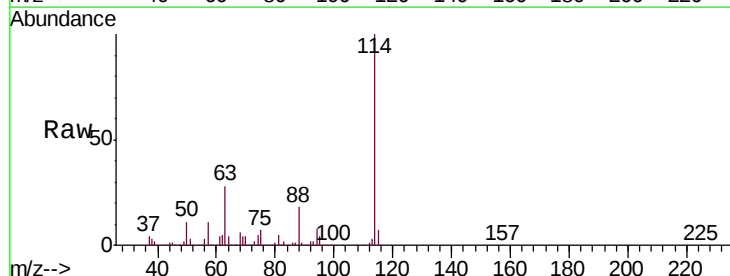


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

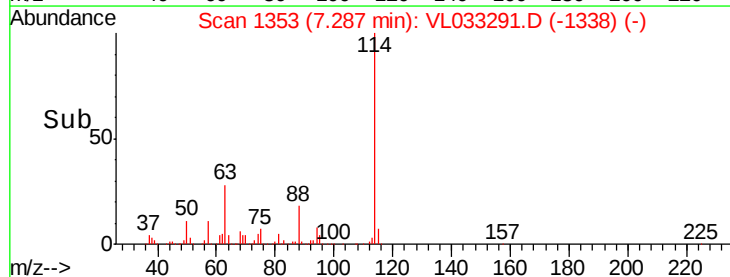
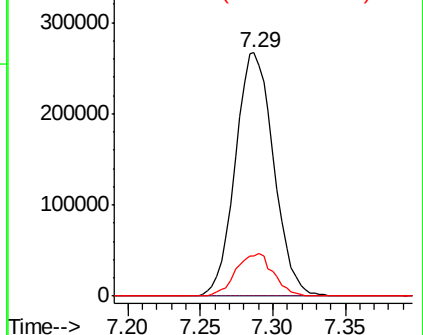


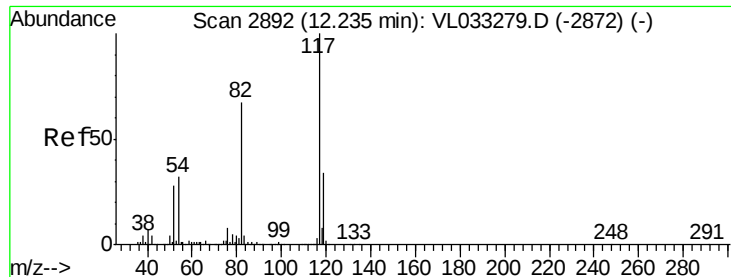
#39
 1,2-Dichloropropane
 Concen: 7.972 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033291.D
 Acq: 12 Mar 2019 20:19

Tgt Ion: 63 Resp: 491441
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.3 87.5#
 62 16.7 55.3 82.9#



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





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033291.D

Acq: 12 Mar 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

ST-OA-1DL

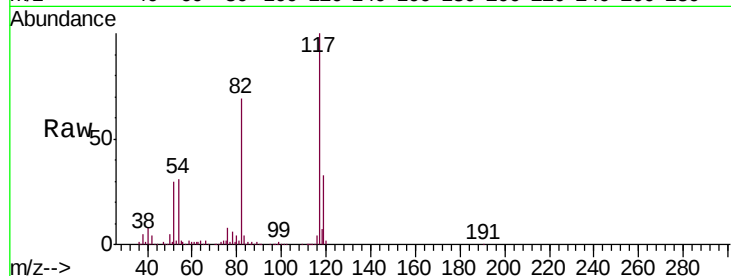
Tgt Ion:117 Resp: 1798245

Ion Ratio Lower Upper

117 100

82 68.4 51.1 76.7

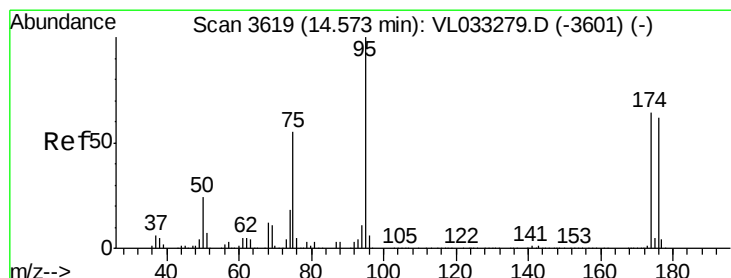
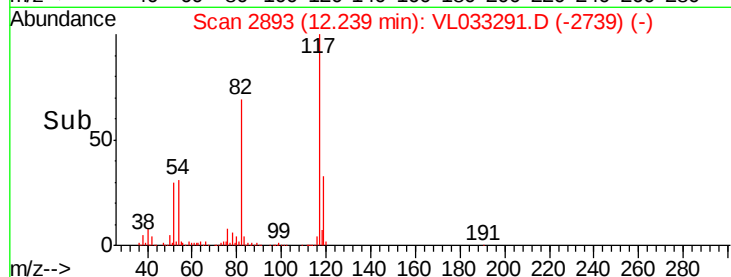
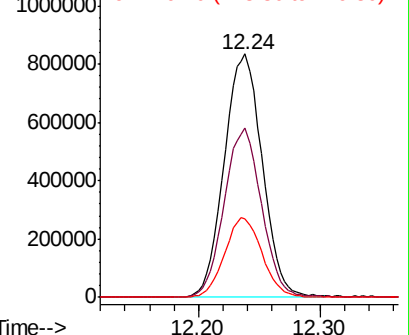
119 32.4 43.6 65.4#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.317 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033291.D

Acq: 12 Mar 2019 20:19

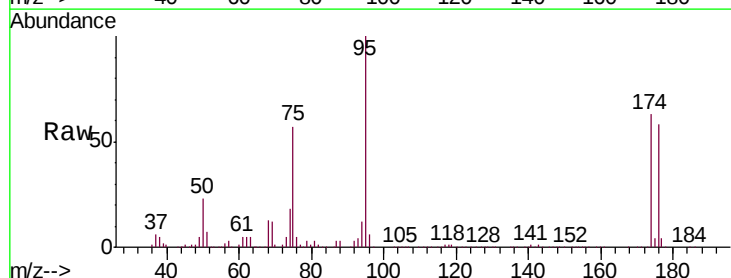
Tgt Ion: 95 Resp: 1432627

Ion Ratio Lower Upper

95 100

174 64.3 51.7 77.5

175 4.6 3.7 5.5



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

