

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034097.D
 Acq On : 6 Aug 2019 9:49
 Operator : SY/AP
 Sample : K4098-01DL 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E049-1100DL

Quant Time: Aug 06 15:08:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1236806	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2386248	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2546122	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2370442	11.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.70%

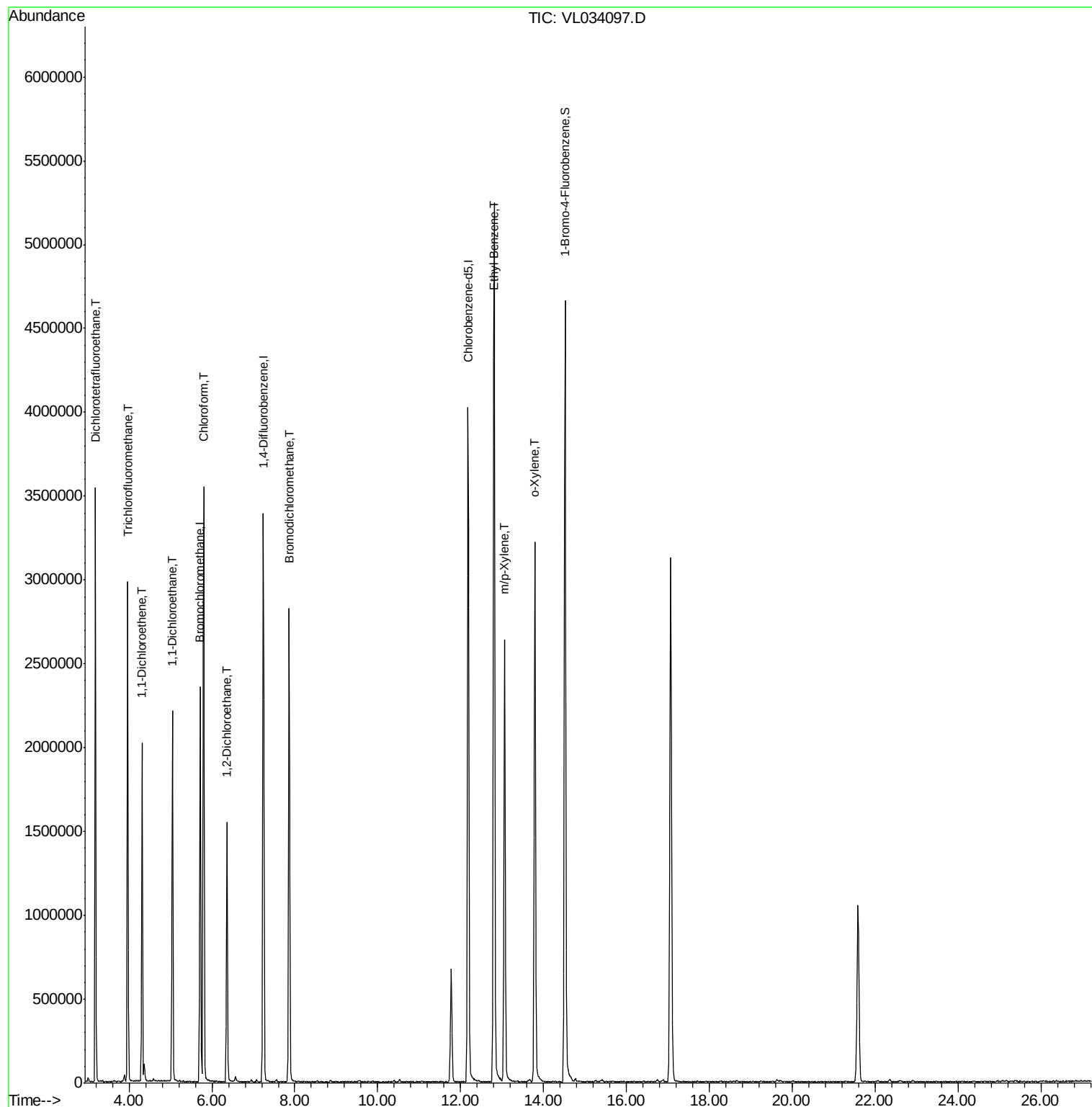
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Dichlorotetrafluoroethane	3.19	85	1363313	7.764	ppbv	94
11) Trichlorofluoromethane	3.97	101	1878389	10.408	ppbv	99
18) 1,1-Dichloroethene	4.31	96	541117	8.985	ppbv	94
24) 1,1-Dichloroethane	5.05	63	1867945	10.713	ppbv	99
29) Chloroform	5.80	83	2404421	12.004	ppbv	97
37) 1,2-Dichloroethane	6.36	62	1251774	8.579	ppbv	100
42) Bromodichloromethane	7.86	83	1922131	9.395	ppbv	98
58) Ethyl Benzene	12.80	91	4949588	11.561	ppbv	95
59) m/p-Xylene	13.06	91	2008378	5.844	ppbv	97
60) o-Xylene	13.79	91	2642217	7.693	ppbv	99

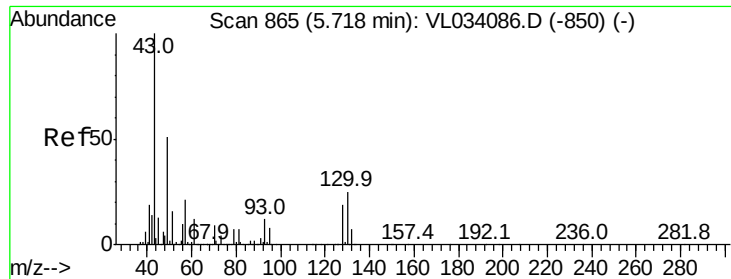
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 05 17:09:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

E049-1100DL

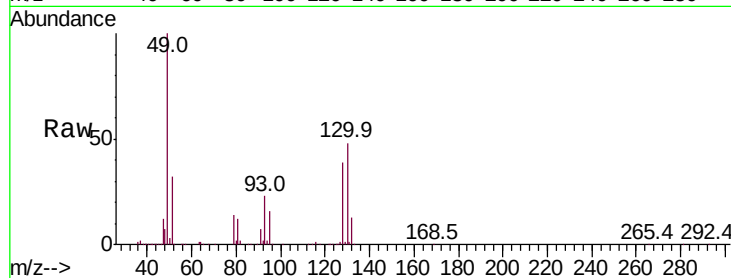
Tot Ion: 49 Resp: 1236806

Ion Ratio Lower Upper

49 100

128 38.9 19.5 58.5

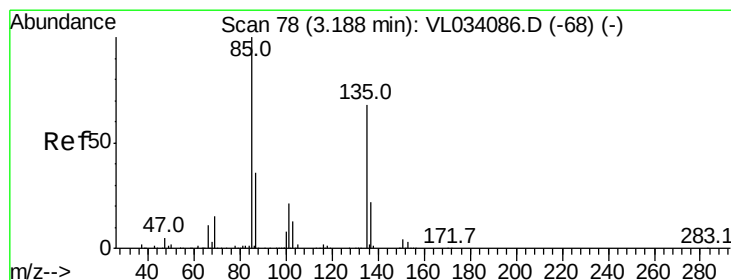
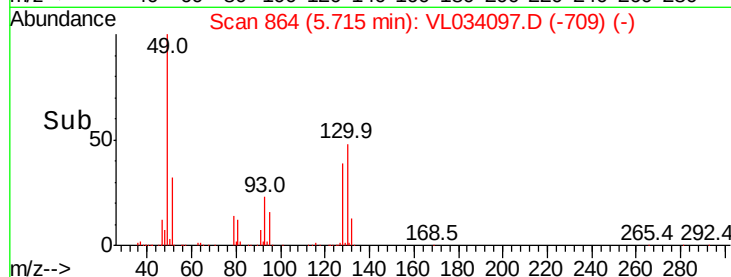
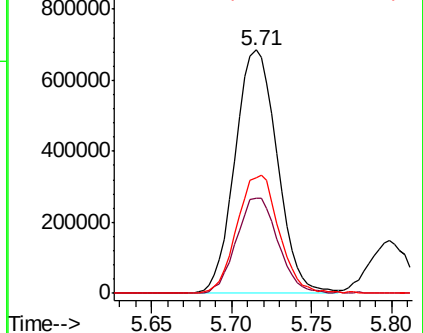
130 48.6 25.4 76.0



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



#8

Dichlorotetrafluoroethane

Concen: 7.764 ppbv

RT: 3.19 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL034097.D

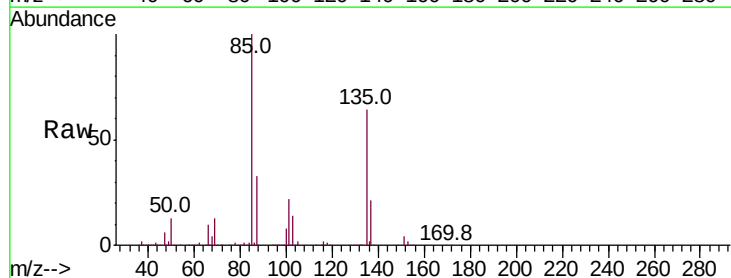
Acq: 6 Aug 2019 9:49

Tgt Ion: 85 Resp: 1363313

Ion Ratio Lower Upper

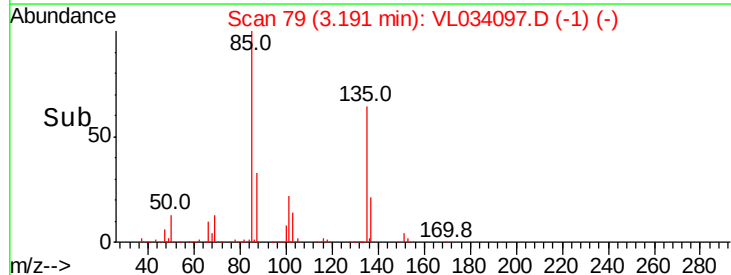
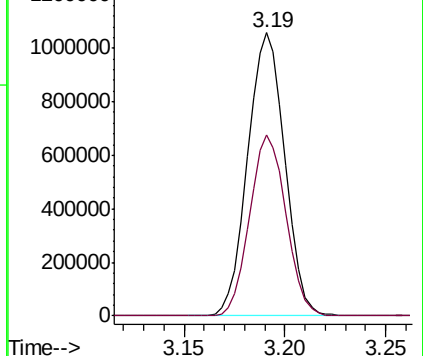
85 100

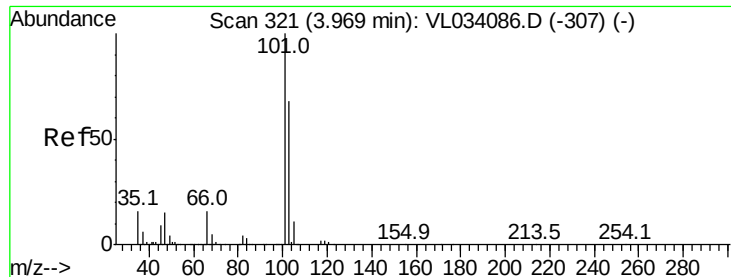
135 62.9 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#11

Trichlorofluoromethane

Concen: 10.408 ppbv

RT: 3.97 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

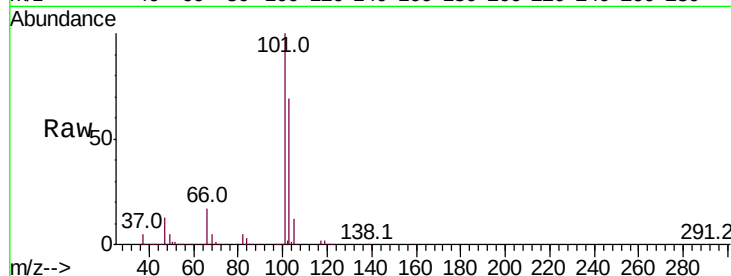
E049-1100DL

Tot Ion:101 Resp: 1878389

Ion Ratio Lower Upper

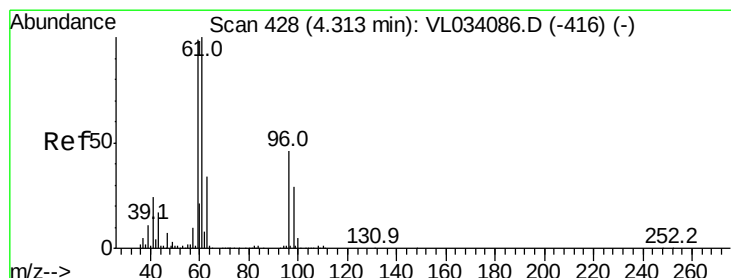
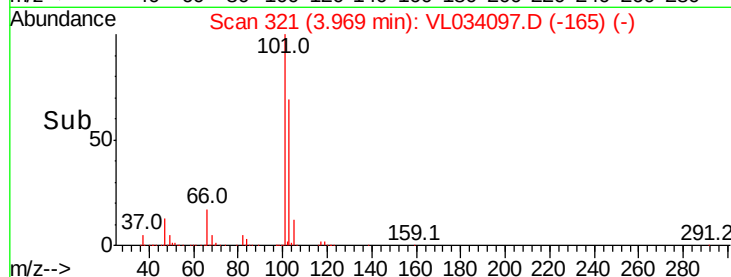
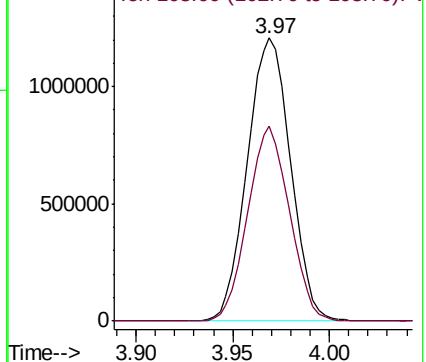
101 100

103 68.7 54.3 81.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#18

1,1-Dichloroethene

Concen: 8.985 ppbv

RT: 4.31 min Scan# 428

Delta R.T. 0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

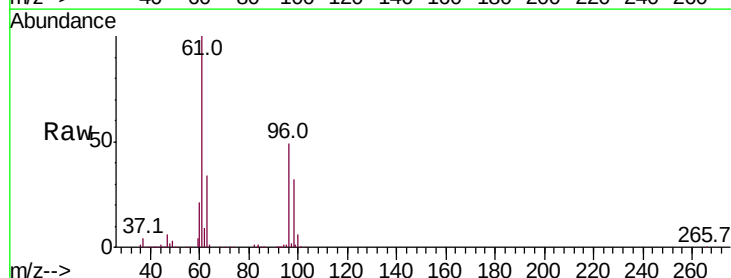
Tgt Ion: 96 Resp: 541117

Ion Ratio Lower Upper

96 100

61 204.9 173.1 259.7

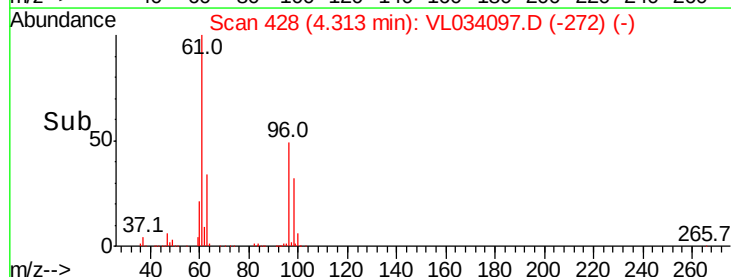
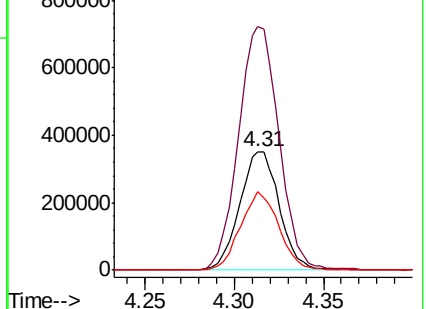
98 65.9 50.3 75.5

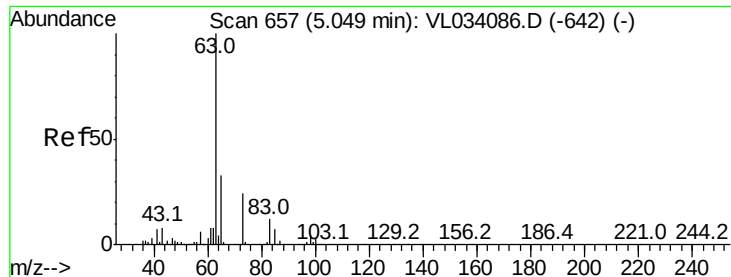


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#24

1,1-Dichloroethane

Concen: 10.713 ppbv

RT: 5.05 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

E049-1100DL

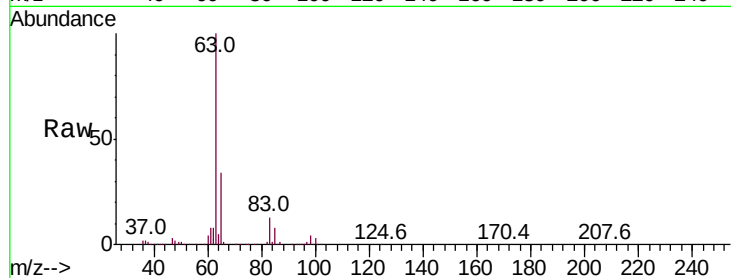
Tot Ion: 63 Resp: 1867945

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.0	6.0
100	2.8	1.3	3.8

63 100

98 4.3 2.0 6.0

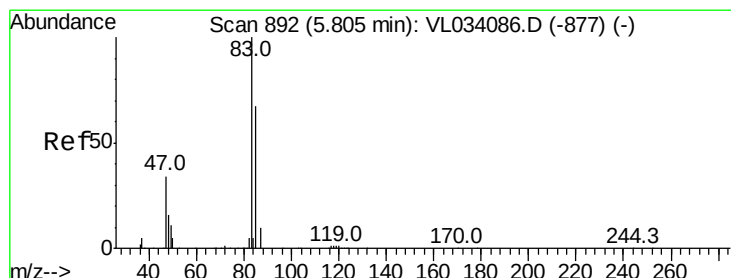
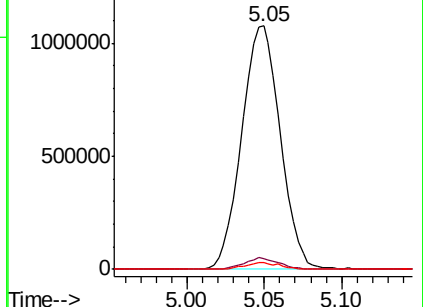
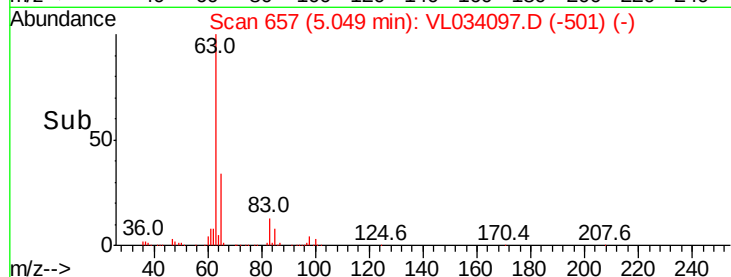
100 2.8 1.3 3.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#29

Chloroform

Concen: 12.004 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034097.D

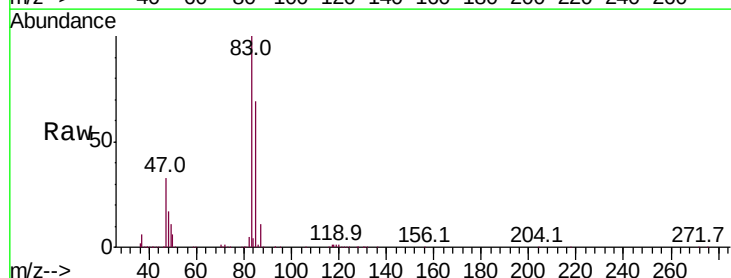
Acq: 6 Aug 2019 9:49

Tgt Ion: 83 Resp: 2404421

Ion	Ratio	Lower	Upper
83	100		
85	68.5	53.2	79.8

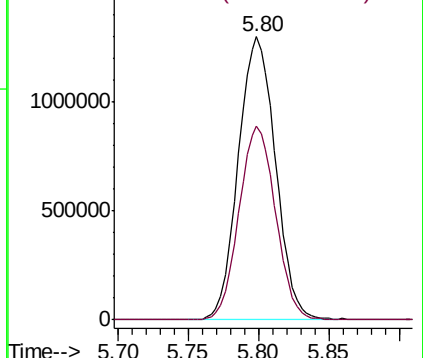
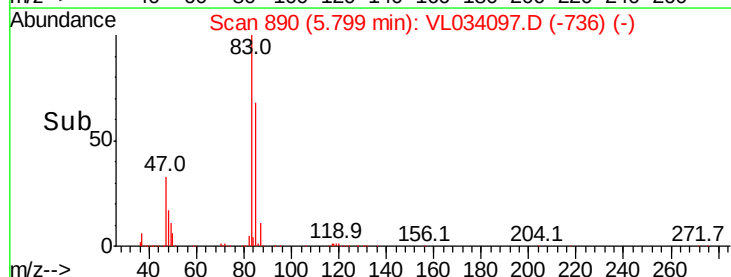
83 100

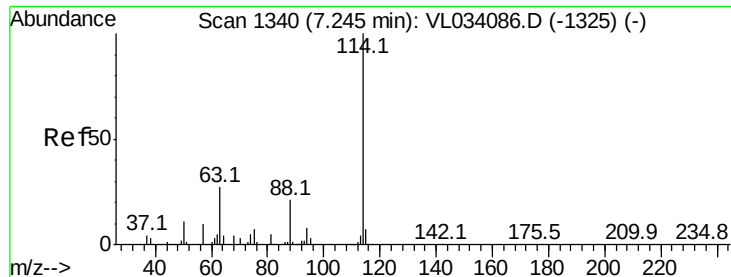
85 68.5 53.2 79.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

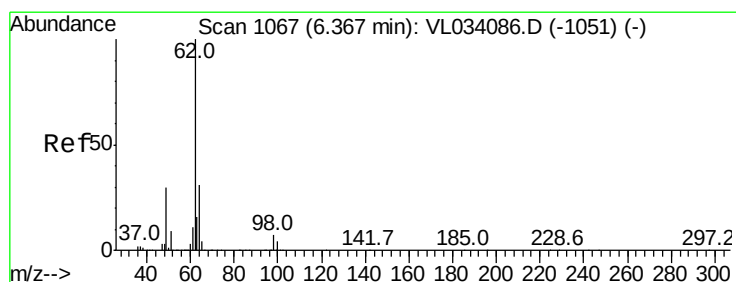
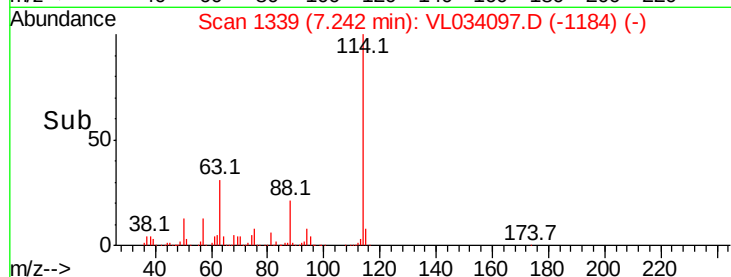
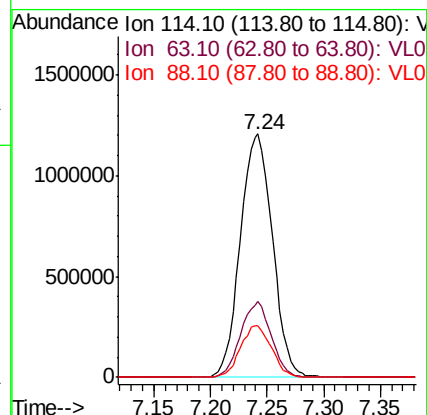
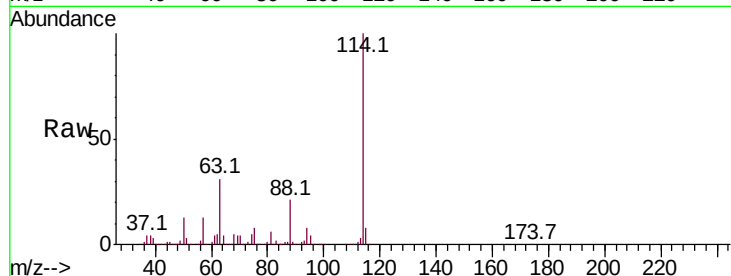




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VL034097.D
 Acq: 6 Aug 2019 9:49

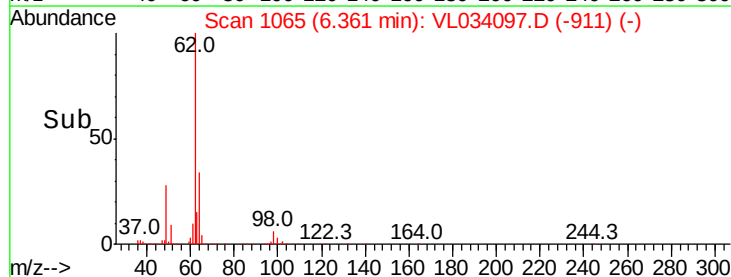
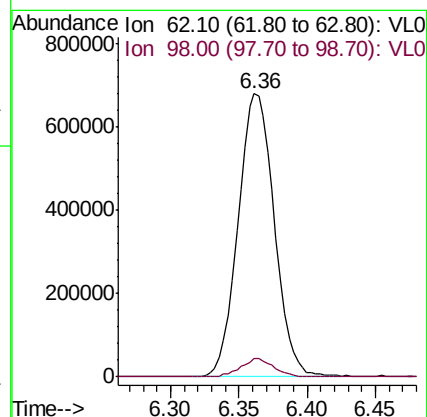
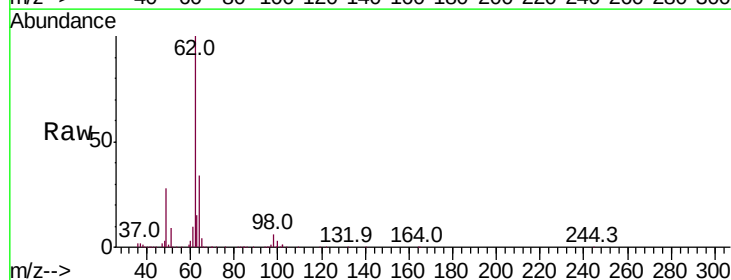
Instrument :
 MSVOA_L
 ClientSampleId :
 E049-1100DL

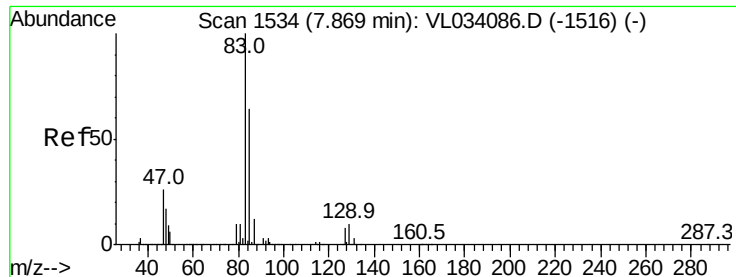
Tot Ion:114 Resp: 2386248
 Ion Ratio Lower Upper
 114 100
 63 29.7 22.5 33.7
 88 20.5 15.7 23.5



#37
 1,2-Dichloroethane
 Concen: 8.579 ppbv
 RT: 6.36 min Scan# 1065
 Delta R.T. -0.01 min
 Lab File: VL034097.D
 Acq: 6 Aug 2019 9:49

Tgt Ion: 62 Resp: 1251774
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.9 7.3





#42

Bromodichloromethane

Concen: 9.395 ppbv

RT: 7.86 min Scan# 1531

Delta R.T. -0.01 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

E049-1100DL

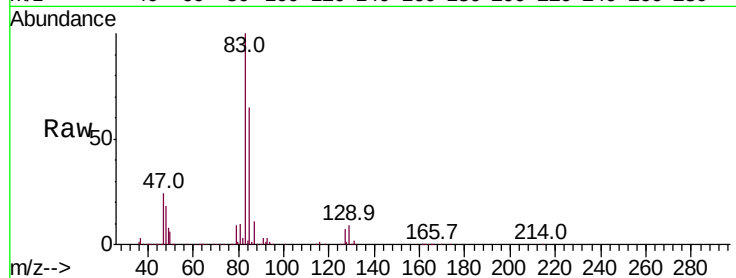
Tot Ion: 83 Resp: 1922131

Ion Ratio Lower Upper

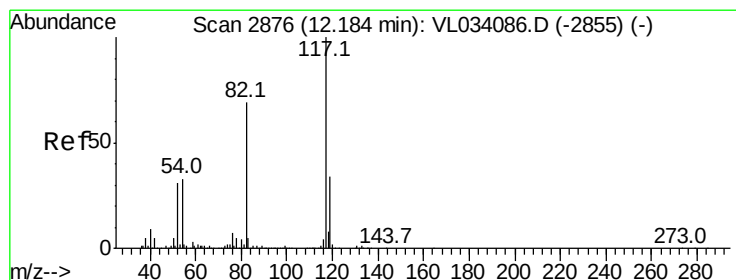
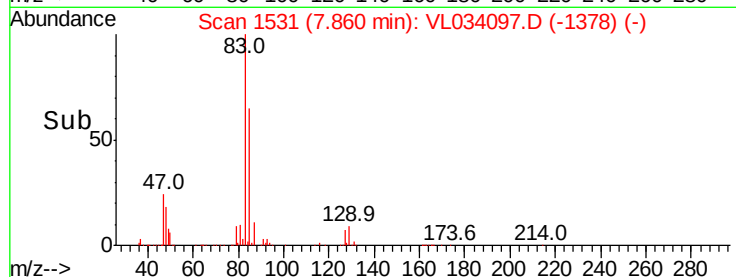
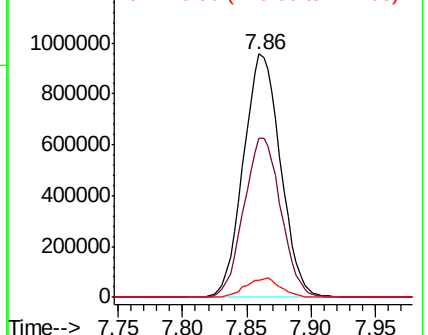
83 100

85 65.1 50.9 76.3

127 7.0 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2876

Delta R.T. 0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

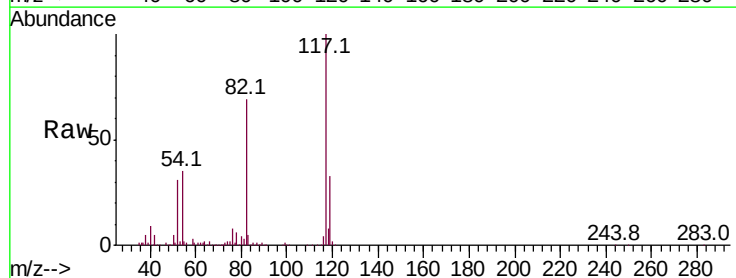
Tgt Ion: 117 Resp: 2546122

Ion Ratio Lower Upper

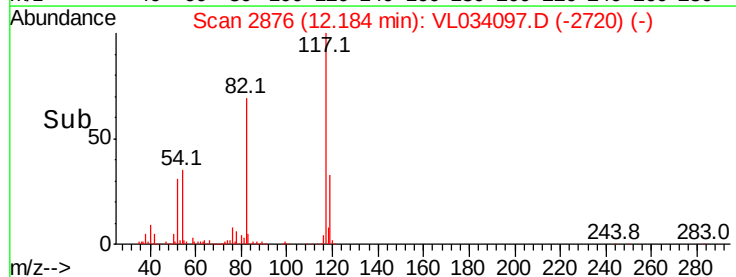
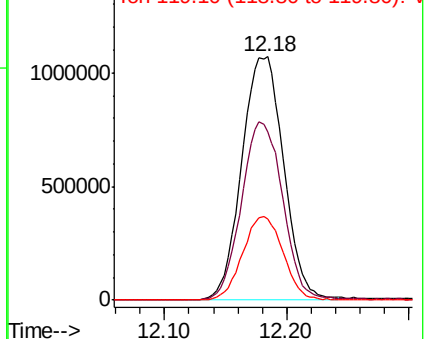
117 100

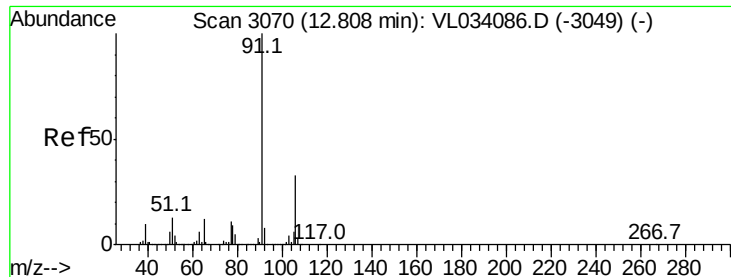
82 72.8 52.2 78.4

119 33.6 44.8 67.2#



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: 11.561 ppbv

RT: 12.80 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

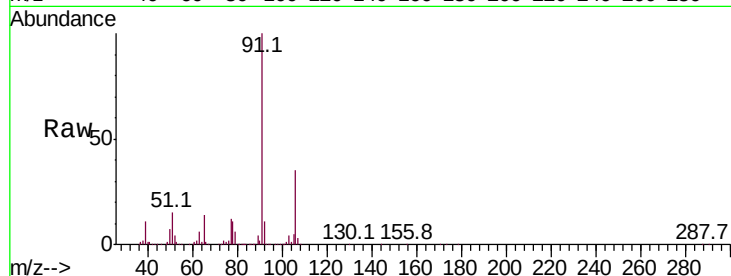
E049-1100DL

Tot Ion: 91 Resp: 4949588

Ion Ratio Lower Upper

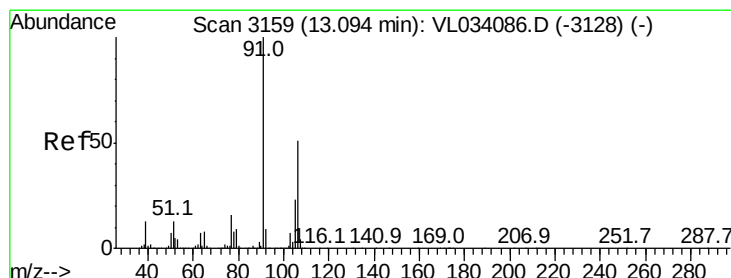
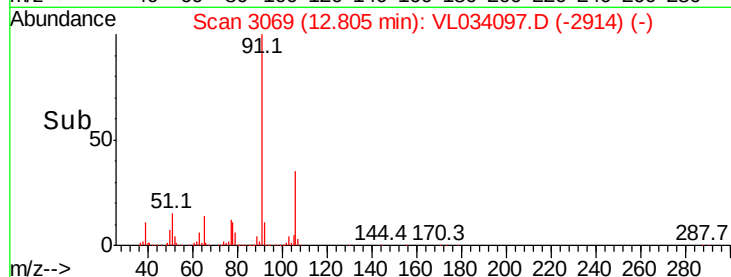
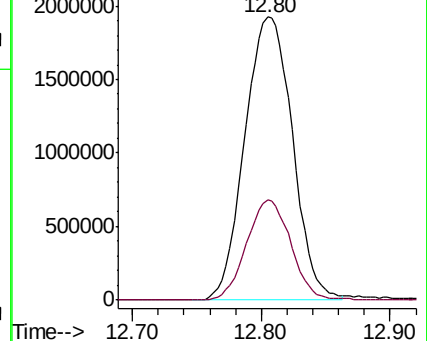
91 100

106 35.2 26.0 39.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 5.844 ppbv

RT: 13.06 min Scan# 3148

Delta R.T. -0.04 min

Lab File: VL034097.D

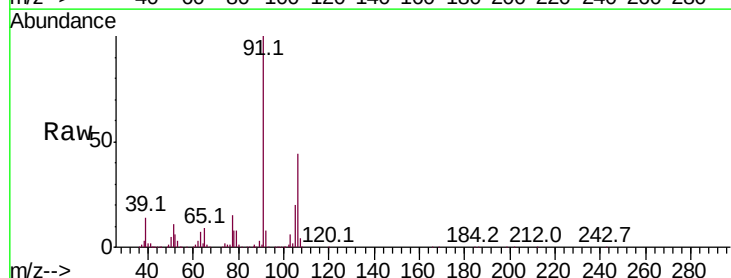
Acq: 6 Aug 2019 9:49

Tgt Ion: 91 Resp: 2008378

Ion Ratio Lower Upper

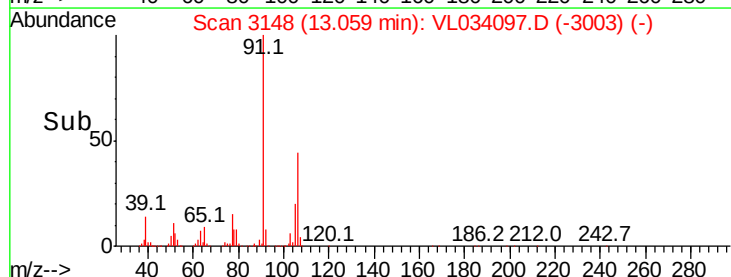
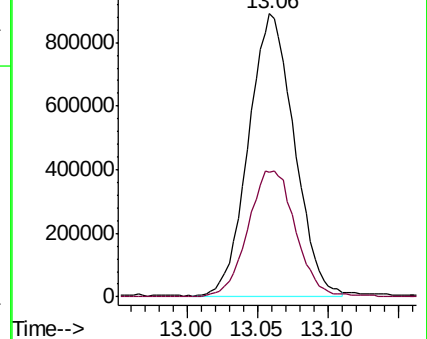
91 100

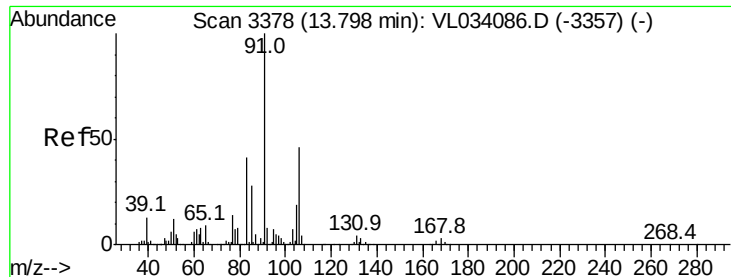
106 46.4 38.7 58.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 7.693 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. -0.01 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

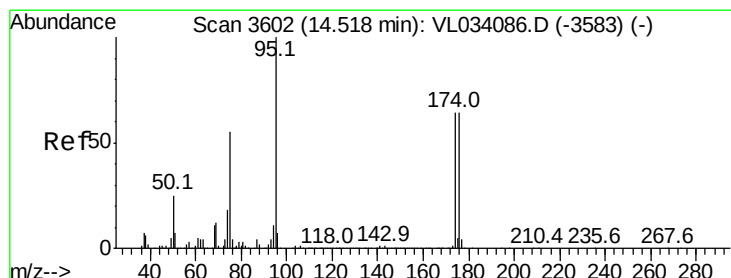
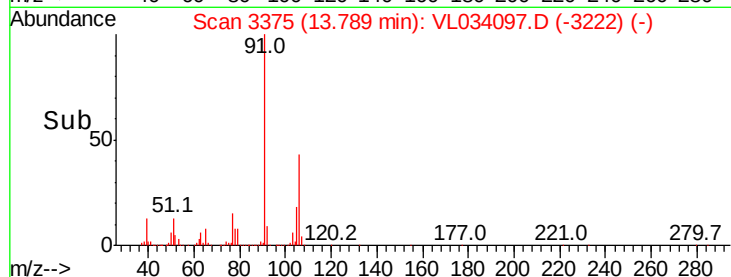
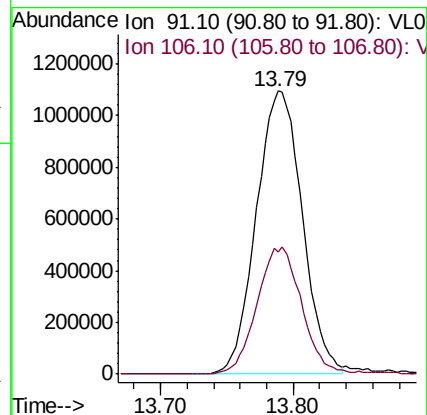
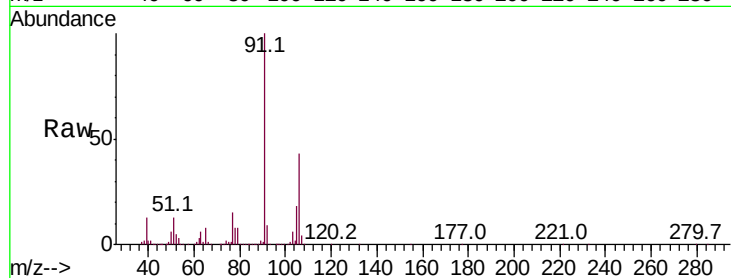
E049-1100DL

Tot Ion: 91 Resp: 2642217

Ion Ratio Lower Upper

91 100

106 44.3 22.6 67.7



#68

1-Bromo-4-Fluorobenzene

Concen: 11.474 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VL034097.D

Acq: 6 Aug 2019 9:49

Tgt Ion: 95 Resp: 2370442

Ion Ratio Lower Upper

95 100

174 64.5 53.0 79.6

175 4.9 4.2 6.2

