

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033210.D
 Acq On : 14 Feb 2019 22:54
 Operator : SY/AP
 Sample : K1483-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:09:07 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019

QLast Update : Wed Feb 20 06:00:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	953961	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2115025	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2175014	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1741572	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

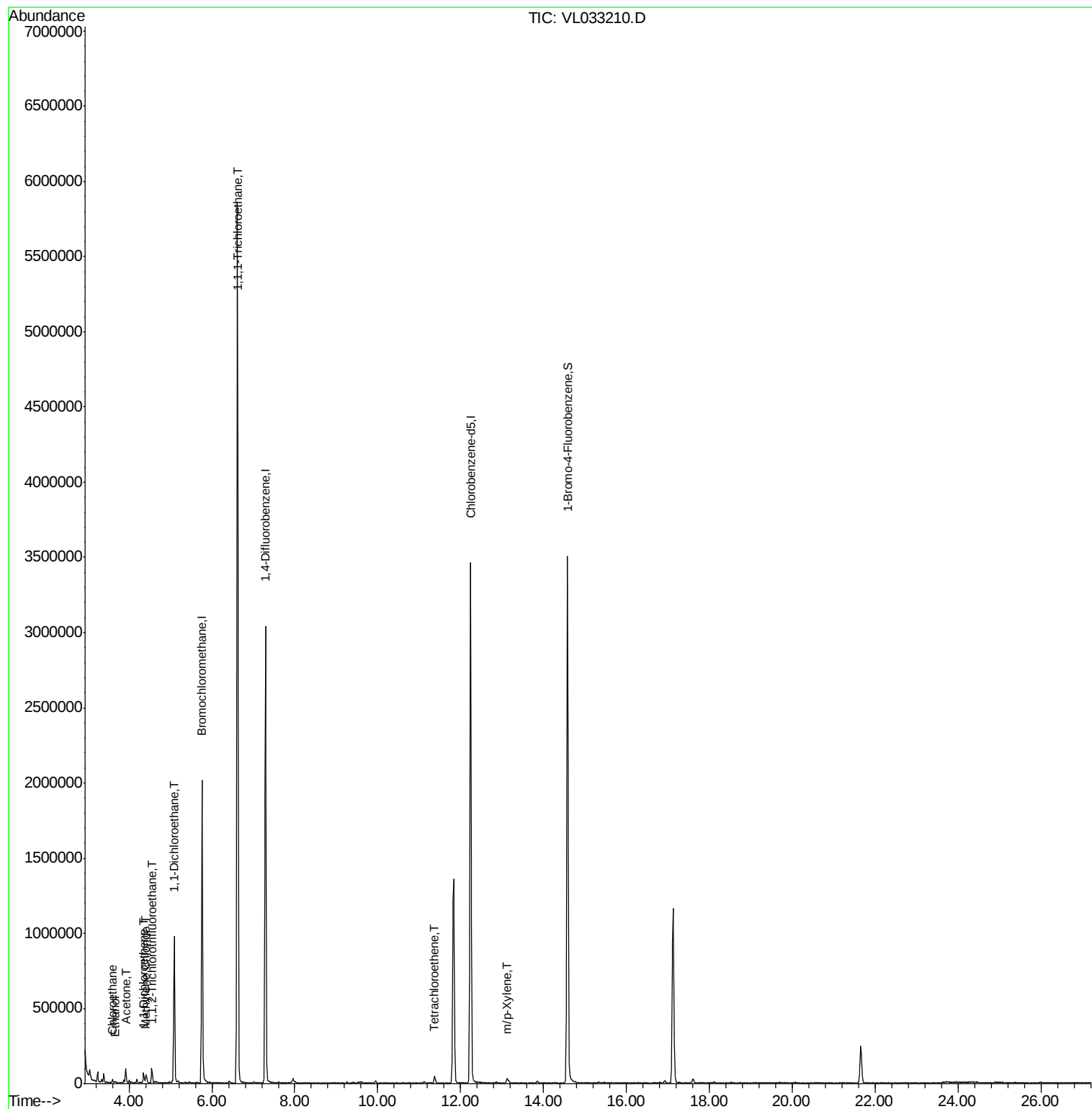
Target Compounds

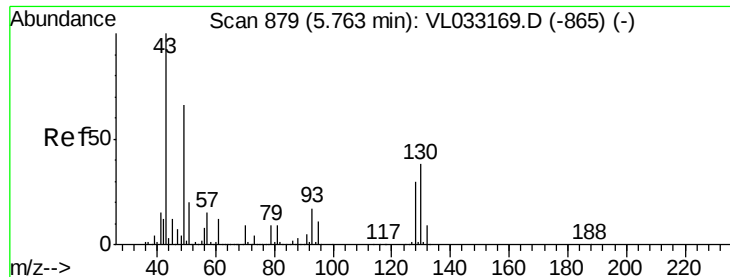
						Ovalue
7) Chloroethane	3.60	64	11730	0.567	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	33626m	0.329	ppbv	
13) Ethanol	3.66	45	9365m	0.497	ppbv	
15) Acetone	3.91	43	73992	0.688	ppbv #	86
18) 1,1-Dichloroethene	4.35	96	19105	0.417	ppbv	89
20) Methylene Chloride	4.41	84	15923	0.372	ppbv #	87
24) 1,1-Dichloroethane	5.09	63	805380	6.113	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	3772336	19.707	ppbv	99
52) Tetrachloroethene	11.37	164	11565m	0.140	ppbv	
59) m/p-Xylene	13.12	91	30089m	0.101	ppbv	

(#) = 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: VL033210.D

Acq: 14 Feb 2019 22:54

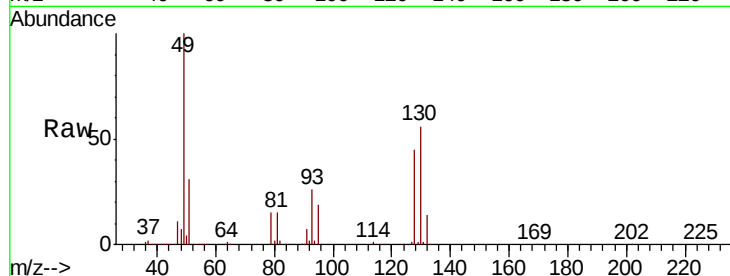
Tot Ion: 49 Resp: 953961

Ion	Ratio	Lower	Upper
49	100		
128	45.8	23.6	71.0
130	58.7	30.3	91.0

49 100

128 45.8 23.6 71.0

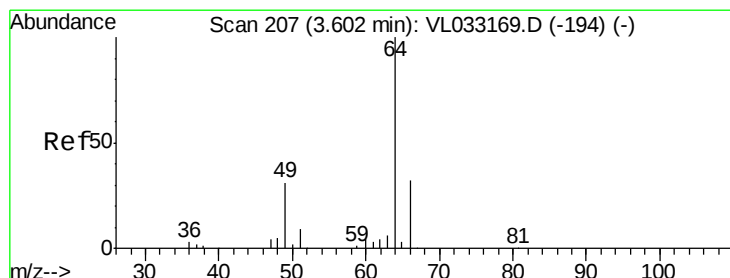
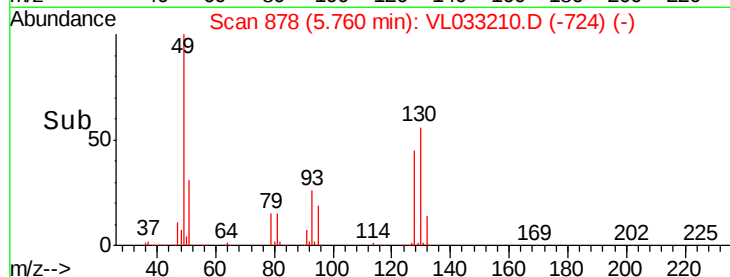
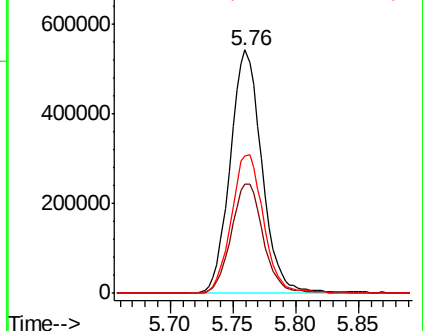
130 58.7 30.3 91.0



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



#7

Chloroethane

Concen: 0.567 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033210.D

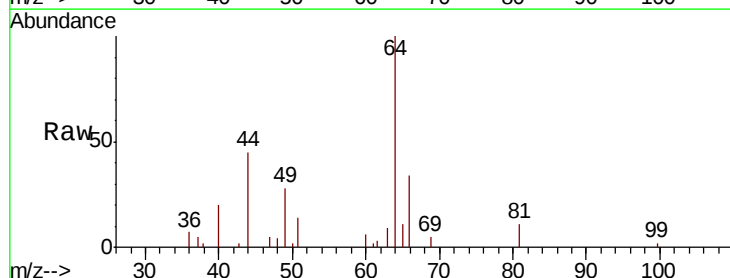
Acq: 14 Feb 2019 22:54

Tgt Ion: 64 Resp: 11730

Ion	Ratio	Lower	Upper
64	100		
66	34.5	26.0	39.0

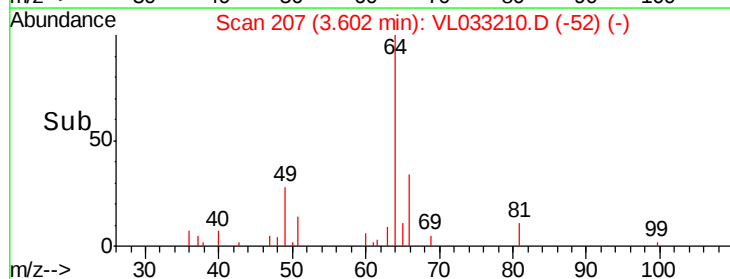
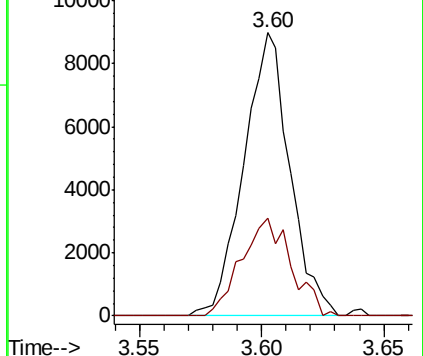
64 100

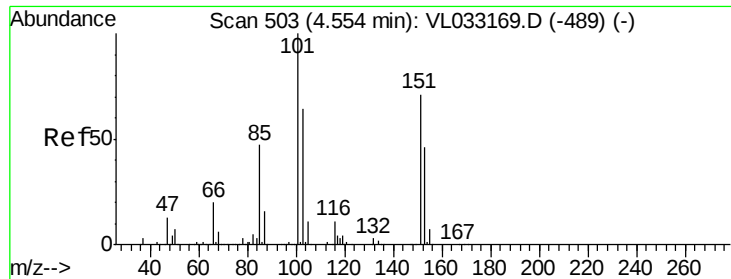
66 34.5 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.329 ppbv m

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033210.D

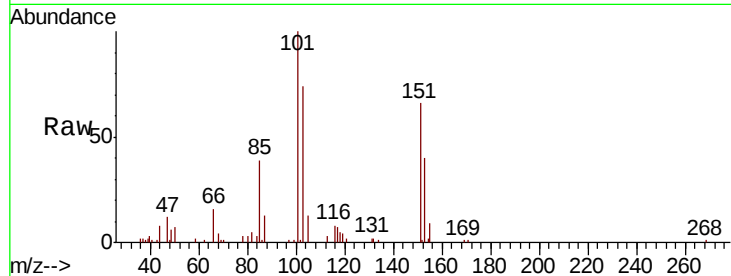
Acq: 14 Feb 2019 22:54

Tot Ion: 101 Resp: 33626

Ion Ratio Lower Upper

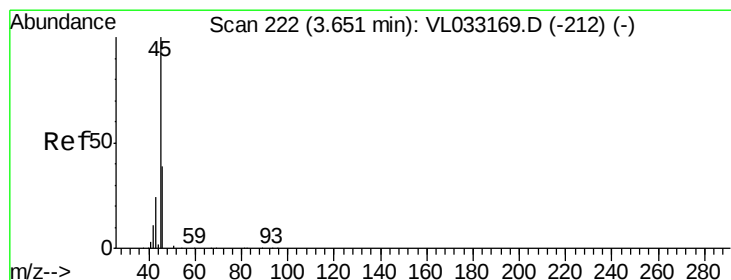
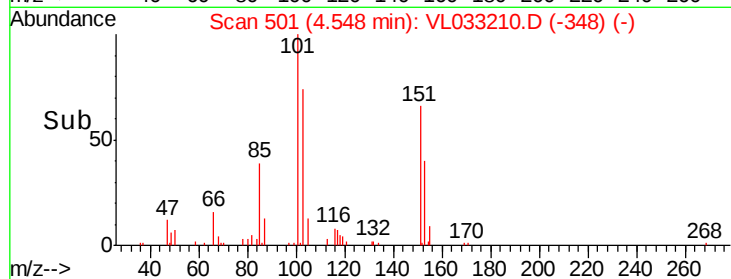
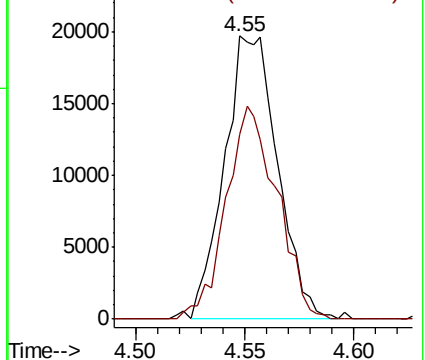
101 100

151 72.0 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.497 ppbv m

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033210.D

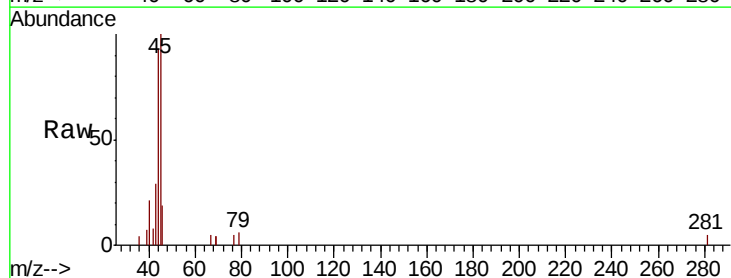
Acq: 14 Feb 2019 22:54

Tgt Ion: 45 Resp: 9365

Ion Ratio Lower Upper

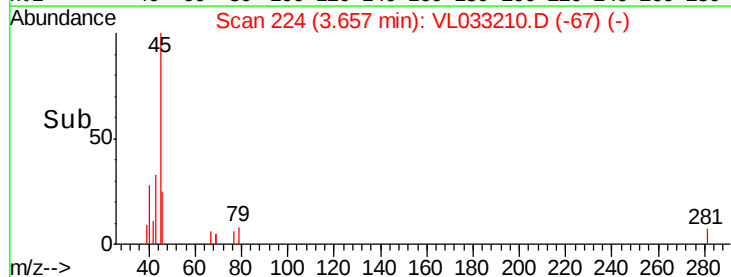
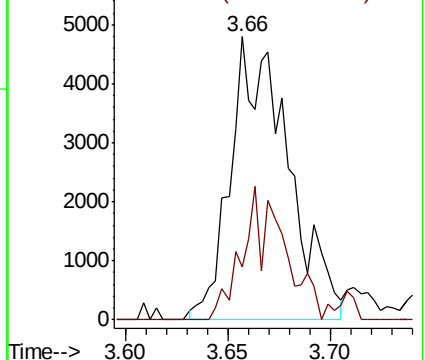
45 100

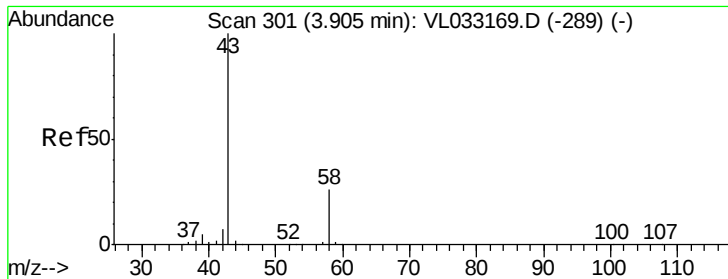
46 0.0 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.688 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033210.D

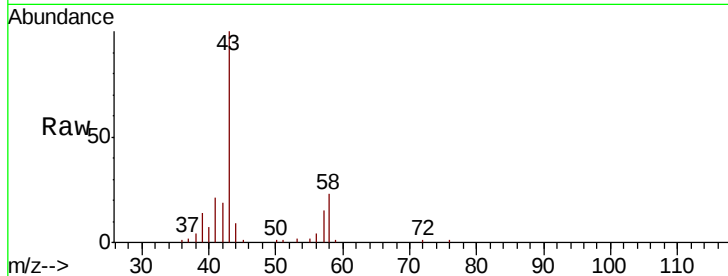
Acq: 14 Feb 2019 22:54

Tot Ion: 43 Resp: 73992

Ion Ratio Lower Upper

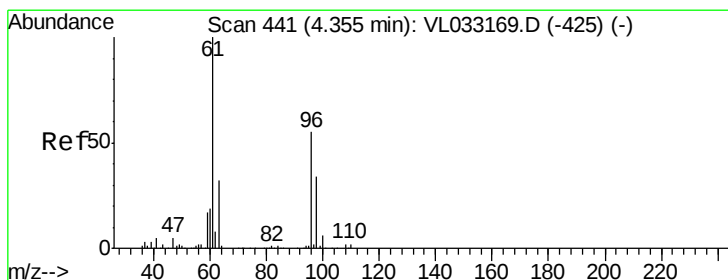
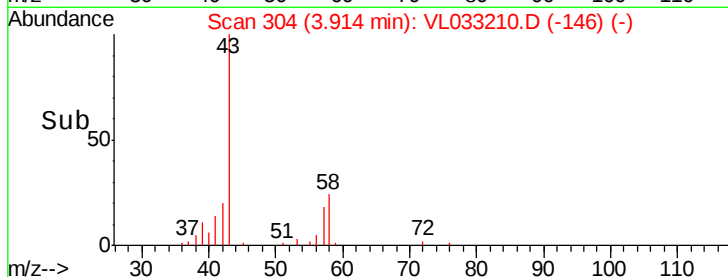
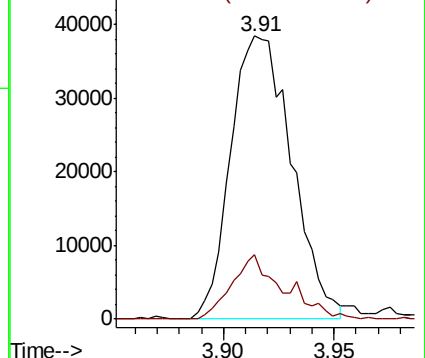
43 100

58 19.4 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.417 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

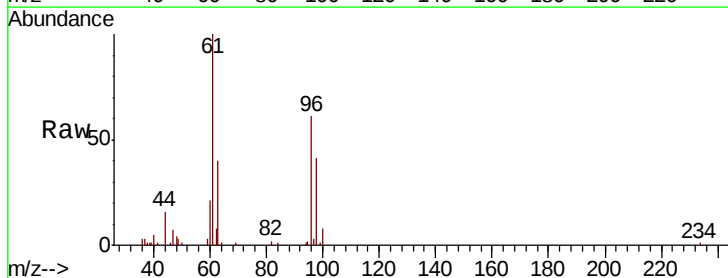
Tgt Ion: 96 Resp: 19105

Ion Ratio Lower Upper

96 100

61 162.9 145.0 217.6

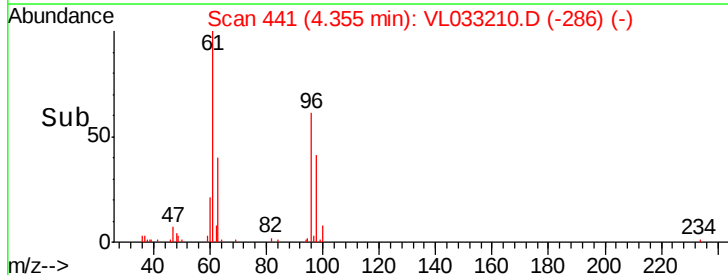
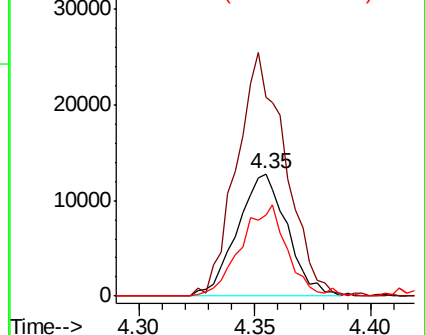
98 66.2 50.0 75.0

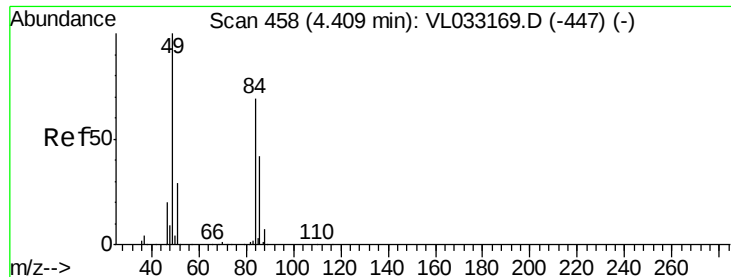


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#20

Methylene Chloride

Concen: 0.372 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Tot Ion: 84 Resp: 15923

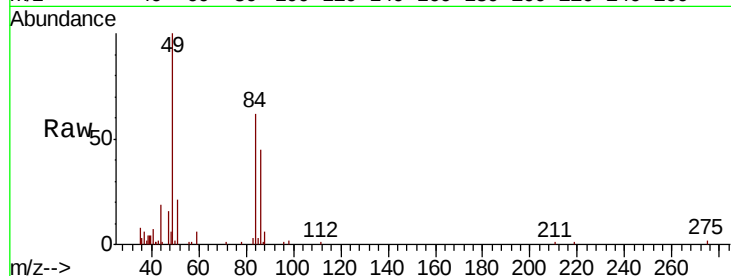
Ion Ratio Lower Upper

84 100

49 159.9 115.8 173.8

51 31.8 33.0 49.6#

86 69.4 48.2 72.2

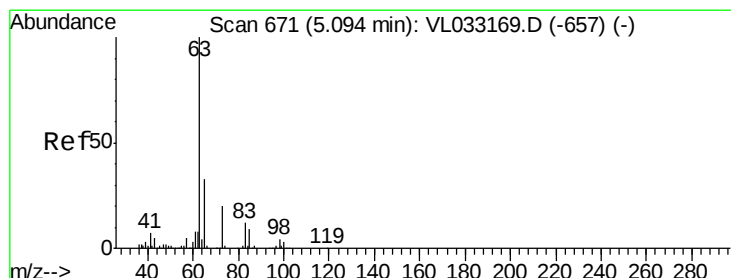
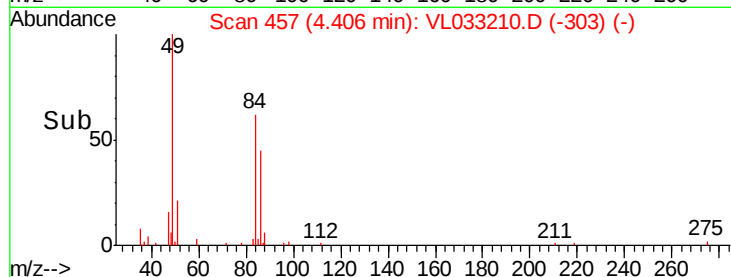
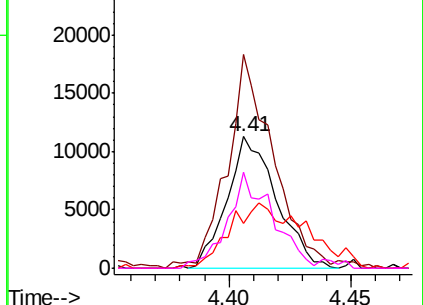


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#24

1,1-Dichloroethane

Concen: 6.113 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

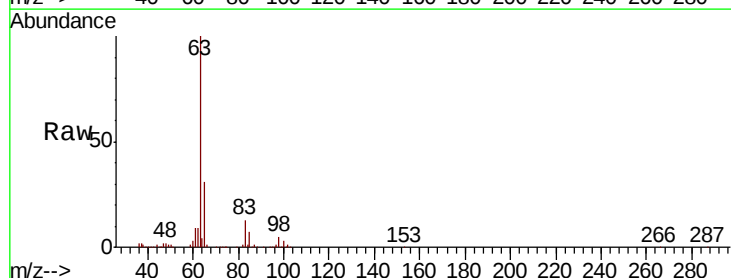
Tgt Ion: 63 Resp: 805380

Ion Ratio Lower Upper

63 100

98 4.7 2.1 6.5

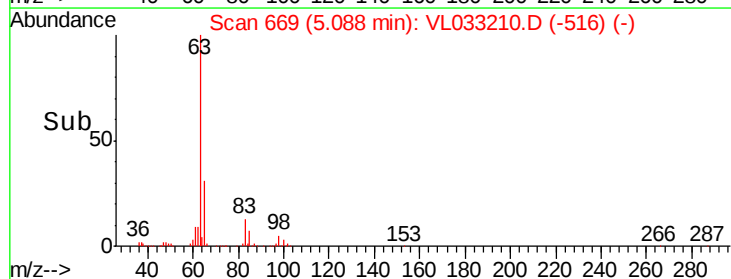
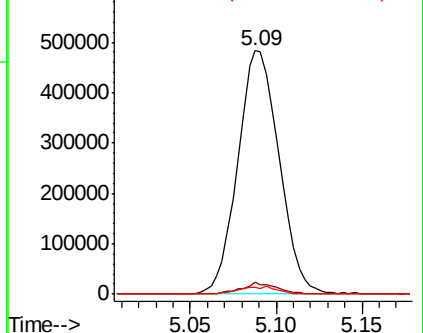
100 3.0 1.4 4.2

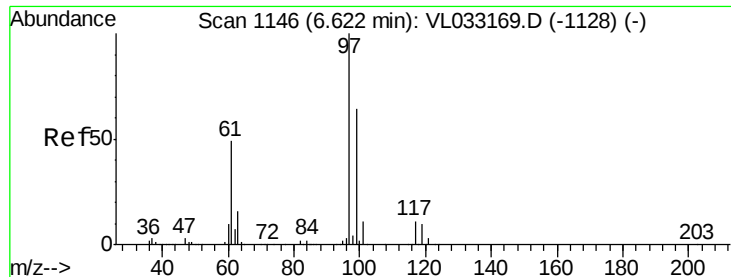


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#32

1,1,1-Trichloroethane

Concen: 19.707 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

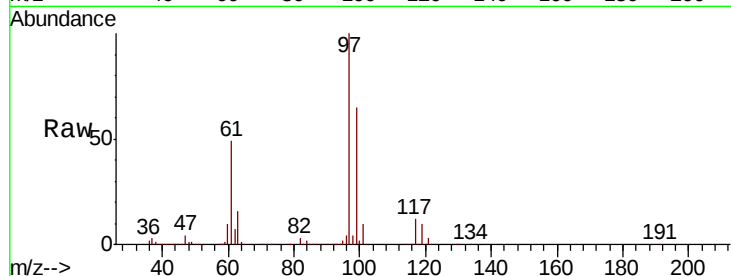
Tot Ion: 97 Resp: 3772336

Ion Ratio Lower Upper

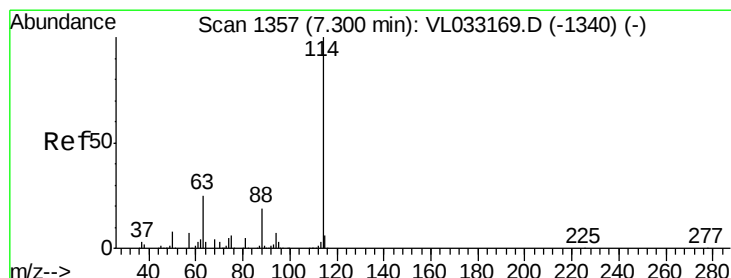
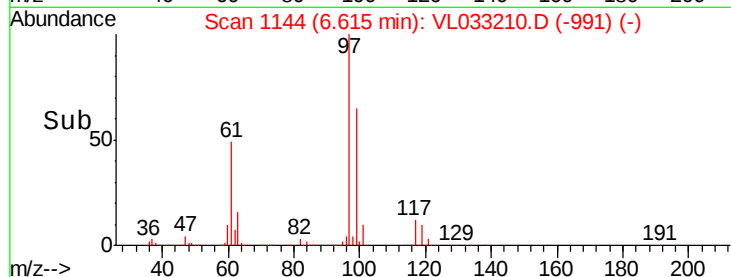
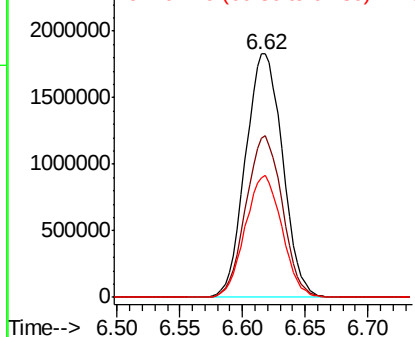
97 100

99 65.0 51.4 77.2

61 49.7 38.8 58.2



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

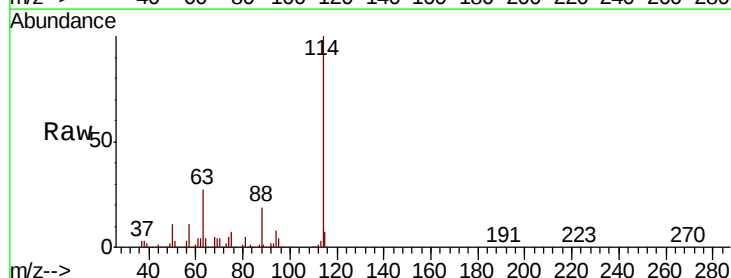
Tgt Ion: 114 Resp: 2115025

Ion Ratio Lower Upper

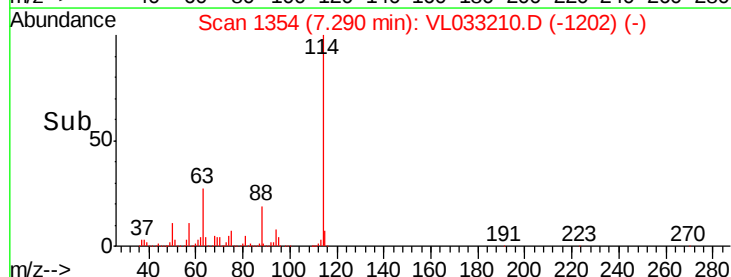
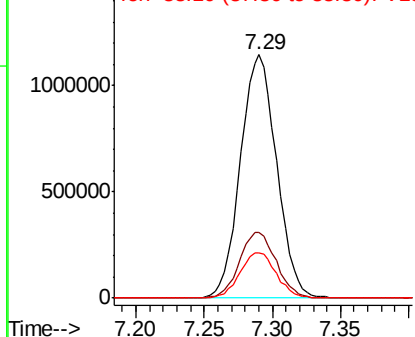
114 100

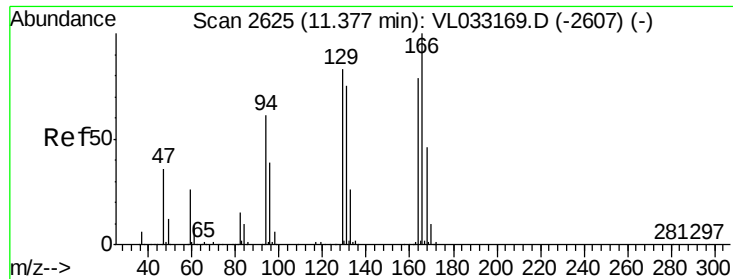
63 27.4 20.8 31.2

88 18.7 14.6 22.0



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





#52

Tetrachloroethene

Concen: 0.140 ppbv m

RT: 11.37 min Scan# 2622

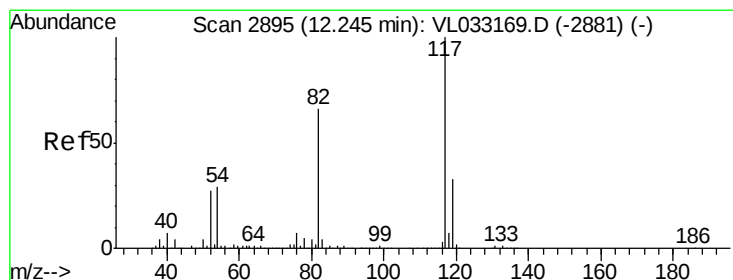
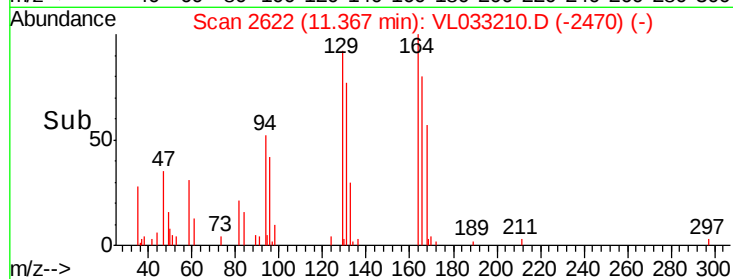
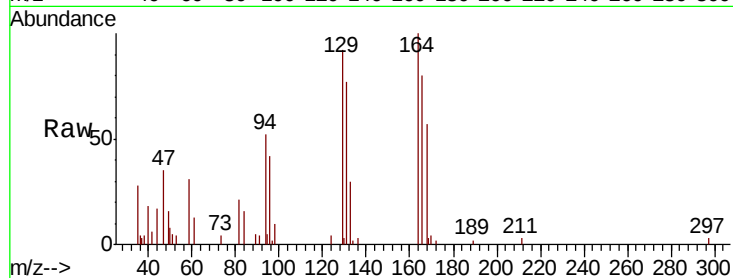
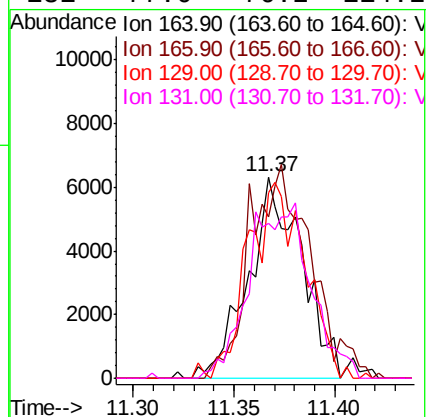
Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Tot Ion:164 Resp: 11565

Ion	Ratio	Lower	Upper
164	100		
166	80.1	100.9	151.3#
129	92.1	83.9	125.9
131	77.0	76.2	114.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

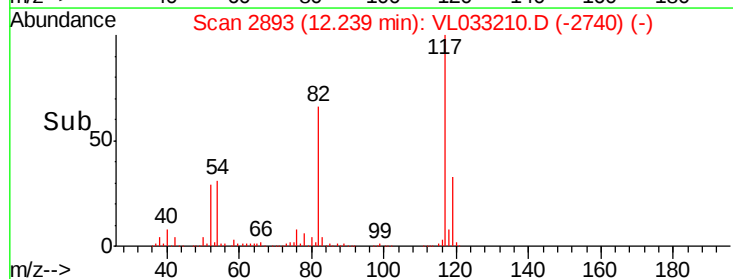
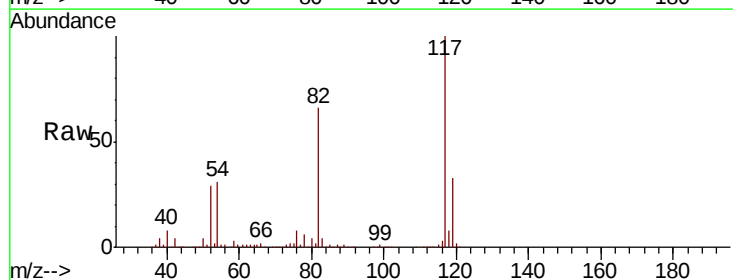
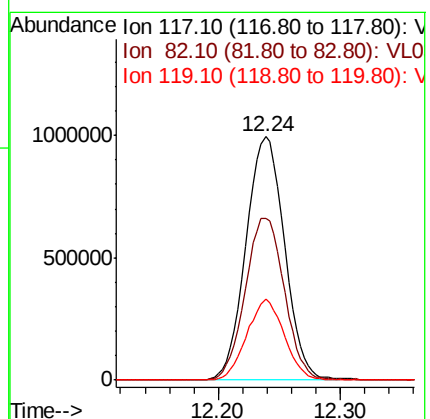
Delta R.T. -0.01 min

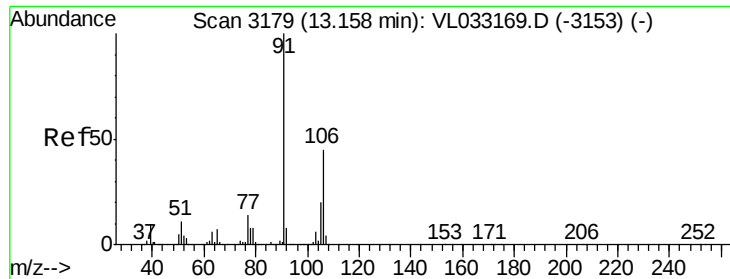
Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

Tgt Ion:117 Resp: 2175014

Ion	Ratio	Lower	Upper
117	100		
82	67.8	53.8	80.8
119	32.3	46.9	70.3#





#59

m/p-Xylene

Concen: 0.101 ppbv m

RT: 13.12 min Scan# 3167

Delta R.T. -0.04 min

Lab File: VL033210.D

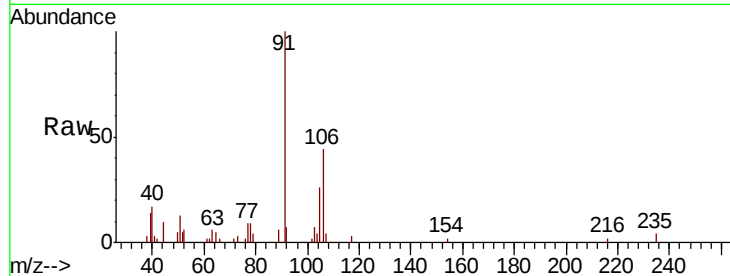
Acq: 14 Feb 2019 22:54

Tot Ion: 91 Resp: 30089

Ion Ratio Lower Upper

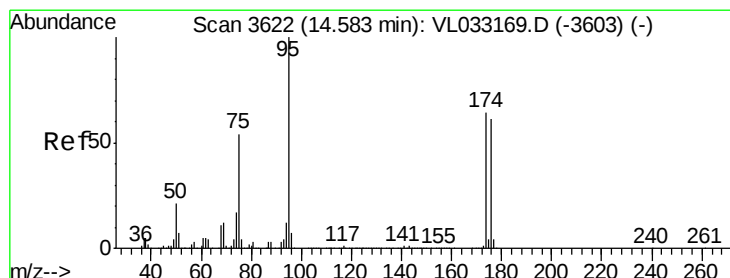
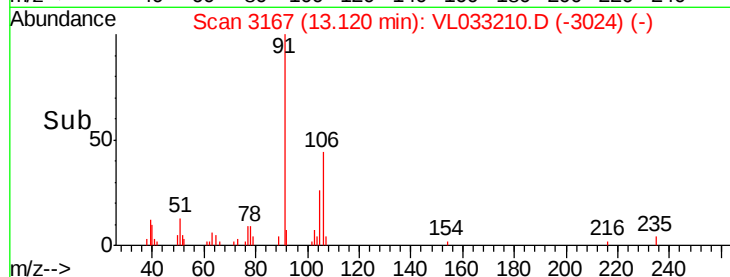
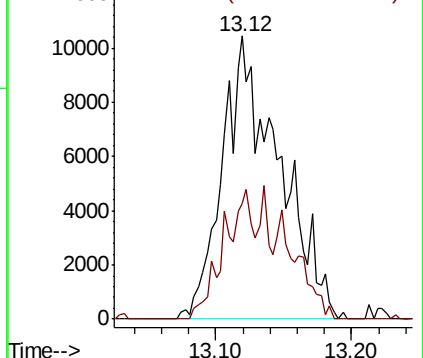
91 100

106 0.0 36.6 55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.275 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033210.D

Acq: 14 Feb 2019 22:54

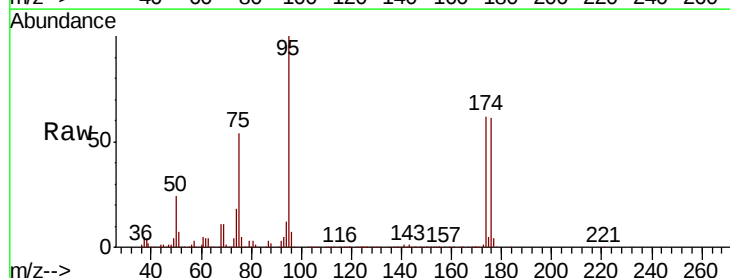
Tgt Ion: 95 Resp: 1741572

Ion Ratio Lower Upper

95 100

174 63.3 51.1 76.7

175 4.5 3.8 5.6



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

