

Data File : VL034514.D
Acq On : 30 Dec 2019 13:35
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Dec 30 14:25:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:19:57 2019
QLast Update : Mon Dec 30 14:19:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1044838	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2060237	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2026707	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1698465	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

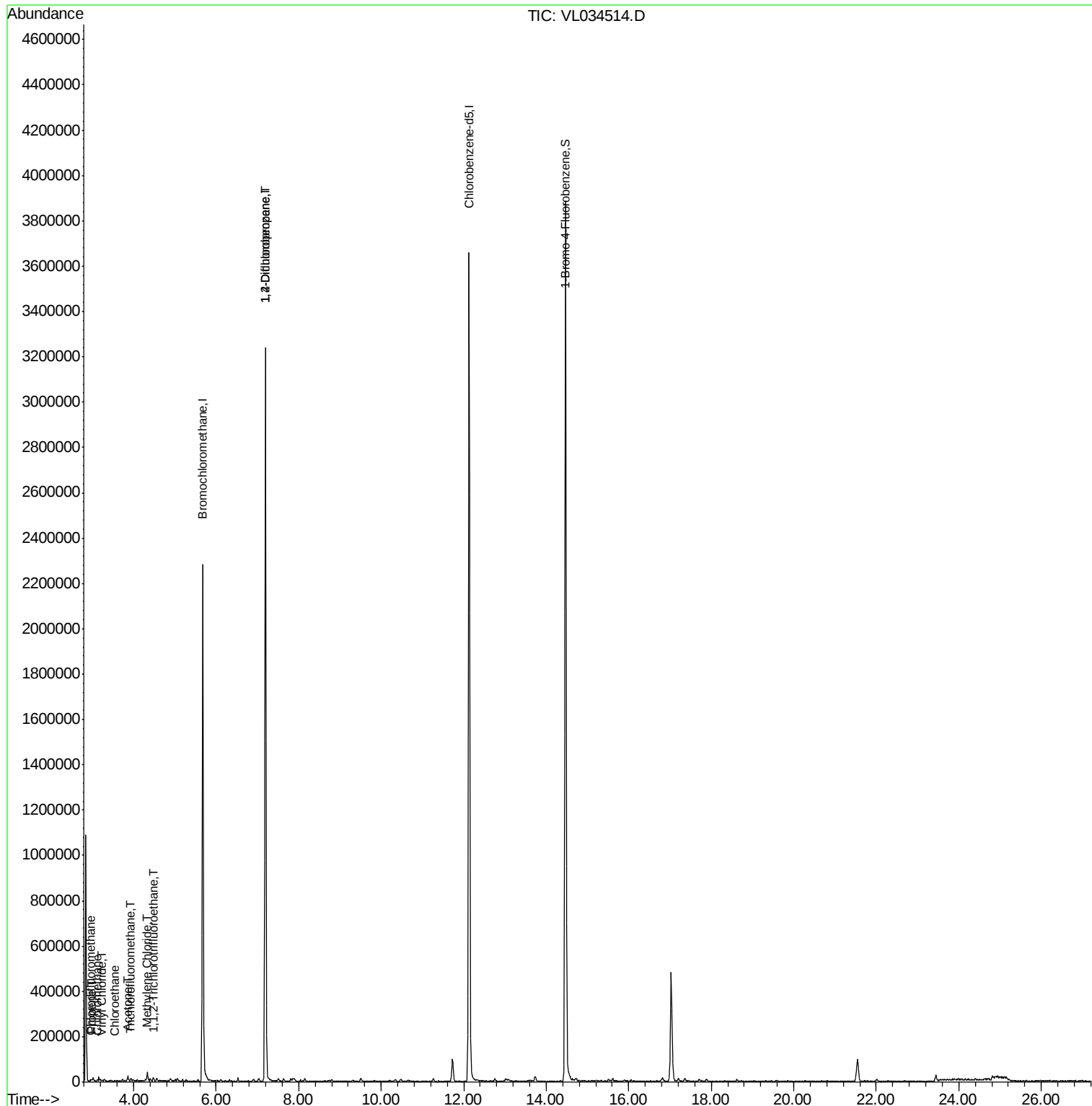
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.95	51	5736	0.044	ppbv #	85
4) Chloromethane	3.11	50	3136	0.041	ppbv #	66
5) Vinyl Chloride	3.23	62	2955	0.041	ppbv #	79
7) Chloroethane	3.54	64	1255	0.048	ppbv	92
9) Propene	2.98	41	1754	0.030	ppbv #	54
11) Trichlorofluoromethane	3.93	101	5839	0.031	ppbv #	74
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5002	0.040	ppbv	98
15) Acetone	3.86	43	20749	0.139	ppbv #	80
20) Methylene Chloride	4.33	84	7985	0.151	ppbv #	61
39) 1,2-Dichloropropane	7.19	63	619679	7.810	ppbv #	21

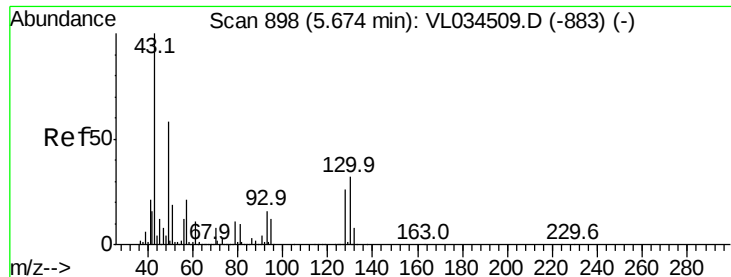
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

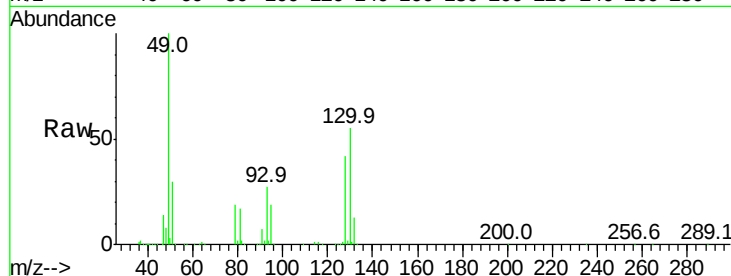
Tgt Ion: 49 Resp: 1044838

Ion Ratio Lower Upper

49 100

128 44.3 22.4 67.2

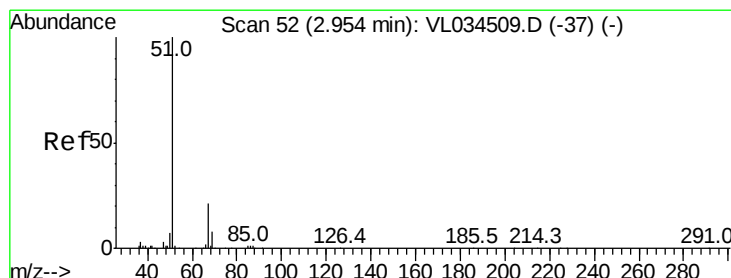
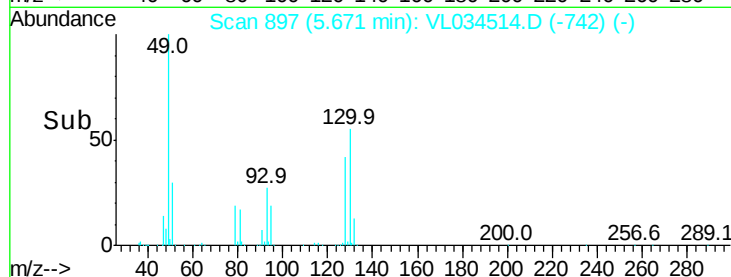
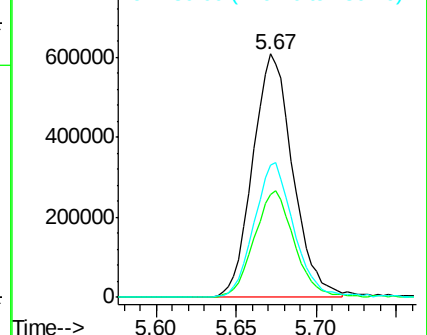
130 56.0 28.3 85.0



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



#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034514.D

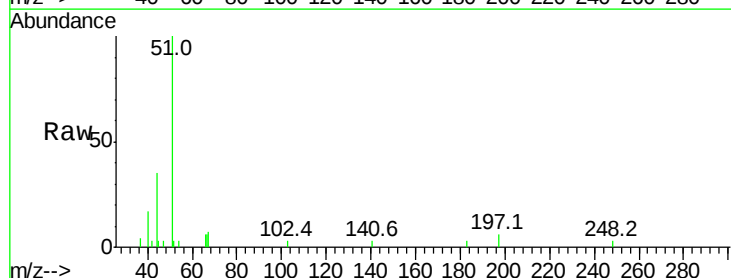
Acq: 30 Dec 2019 13:35

Tgt Ion: 51 Resp: 5736

Ion Ratio Lower Upper

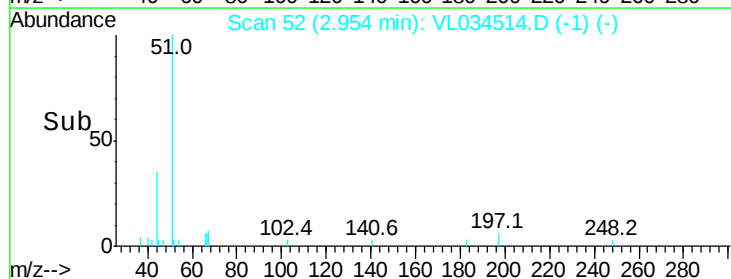
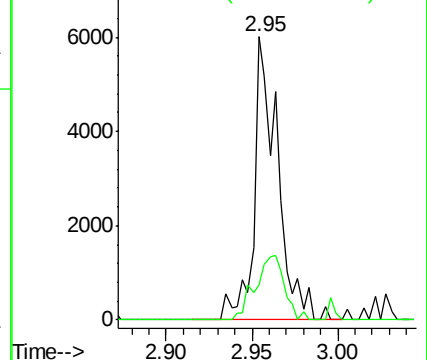
51 100

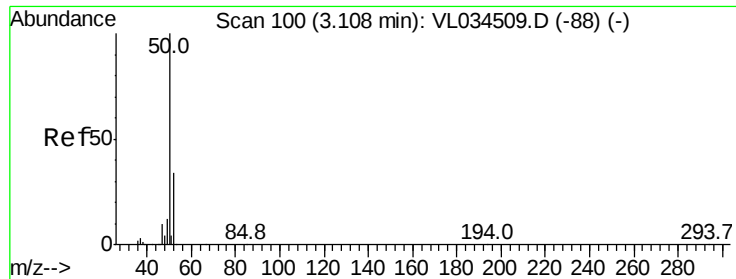
67 27.9 16.8 25.2#



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: 3.11 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

ClientSampleId :

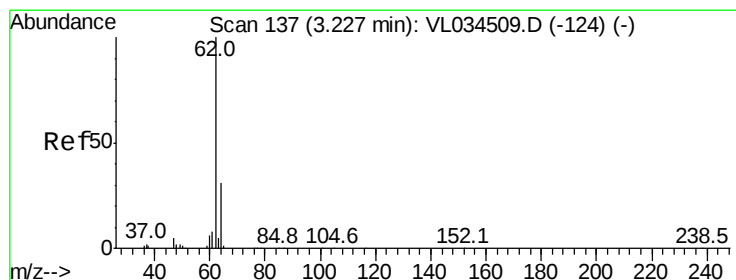
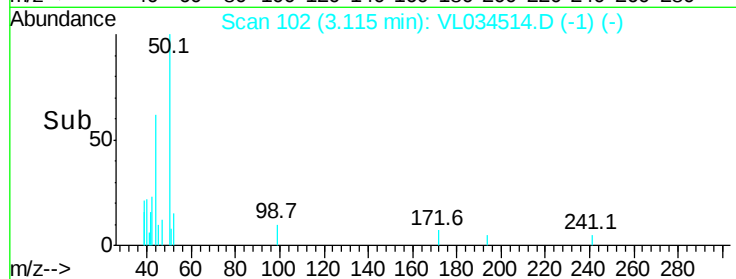
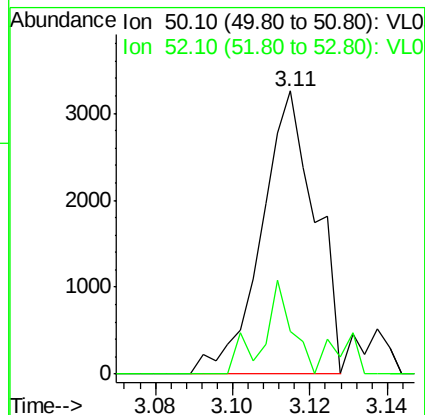
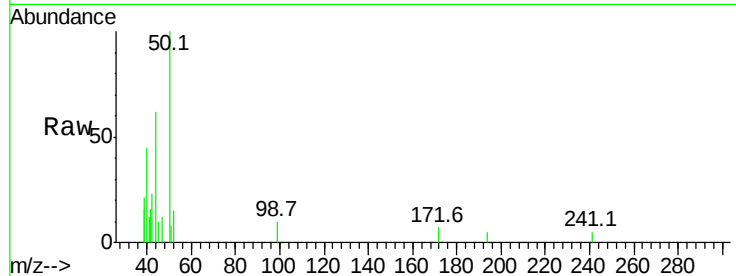
VSTDIC0.03

Tgt Ion: 50 Resp: 3136

Ion Ratio Lower Upper

50 100

52 15.0 27.6 41.4#



#5

Vinyl Chloride

Concen: 0.041 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.01 min

Lab File: VL034514.D

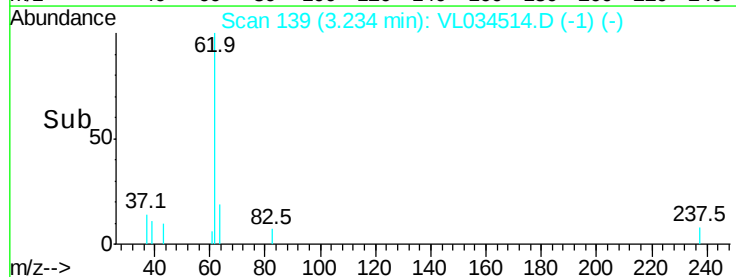
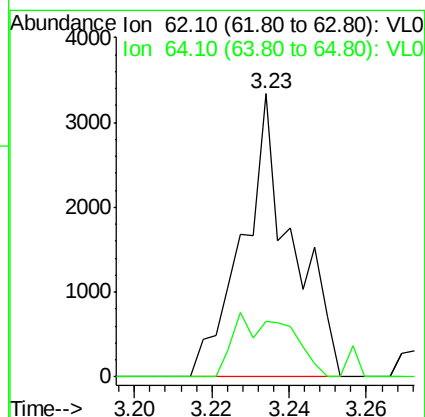
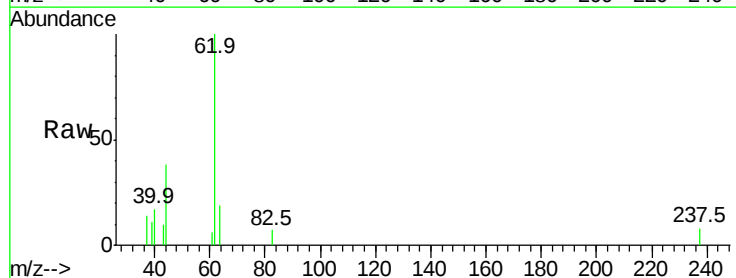
Acq: 30 Dec 2019 13:35

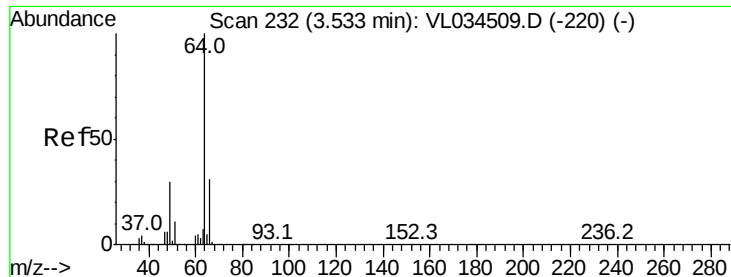
Tgt Ion: 62 Resp: 2955

Ion Ratio Lower Upper

62 100

64 19.4 24.9 37.3#





#7

Chloroethane

Concen: 0.048 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.01 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

ClientSampleId :

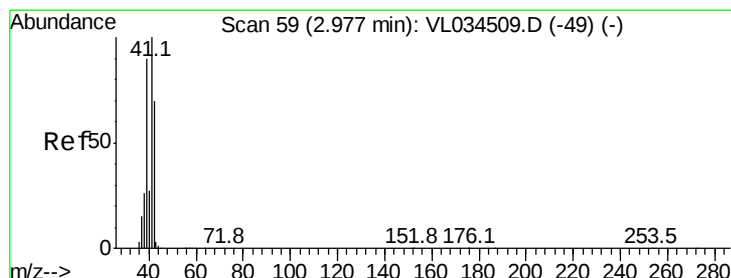
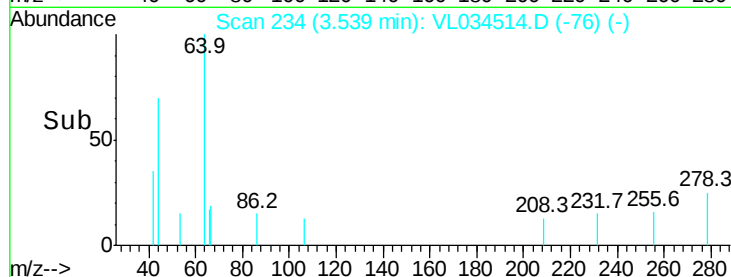
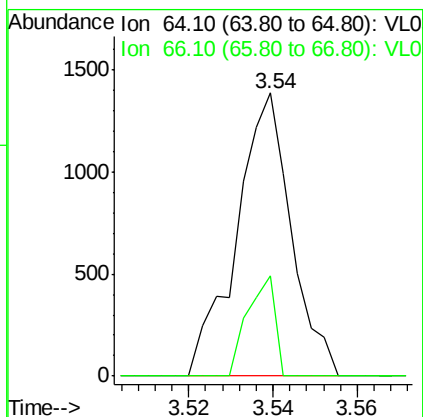
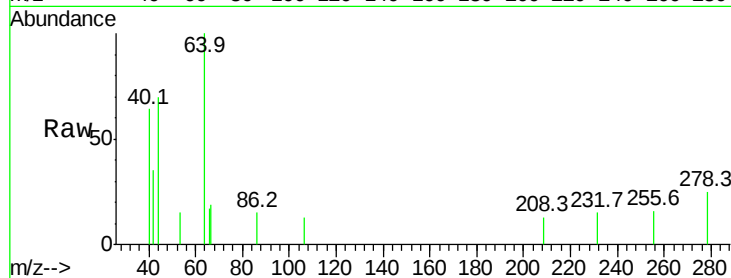
VSTDIC0.03

Tgt Ion: 64 Resp: 1255

Ion Ratio Lower Upper

64 100

66 35.6 25.0 37.4



#9

Propene

Concen: 0.030 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL034514.D

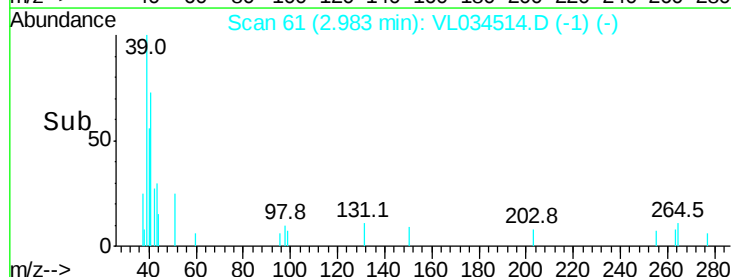
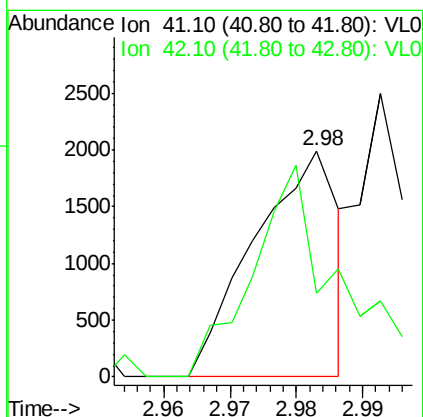
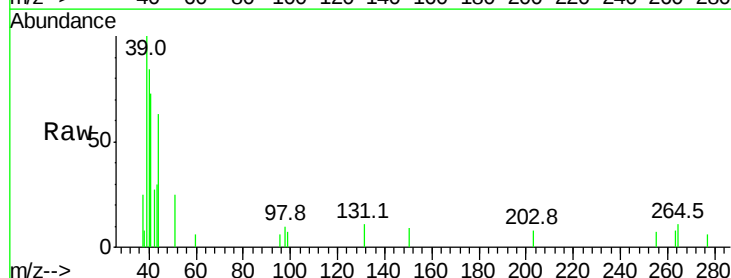
Acq: 30 Dec 2019 13:35

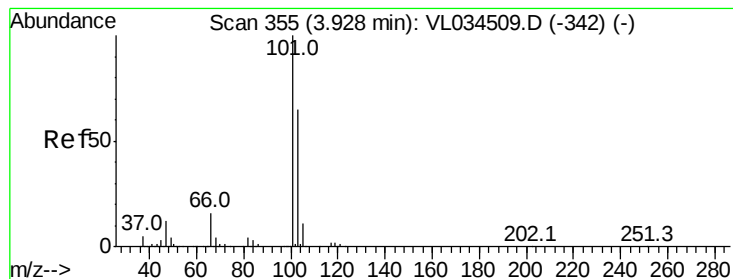
Tgt Ion: 41 Resp: 1754

Ion Ratio Lower Upper

41 100

42 107.4 55.8 83.6#





#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

ClientSampleId :

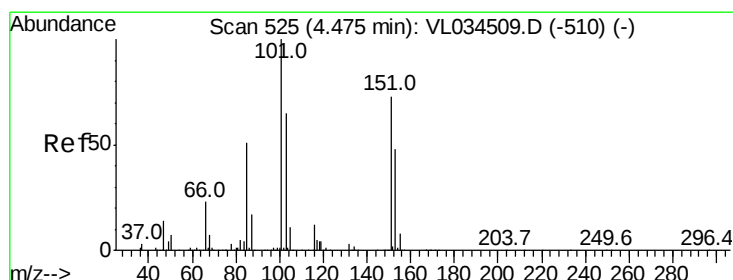
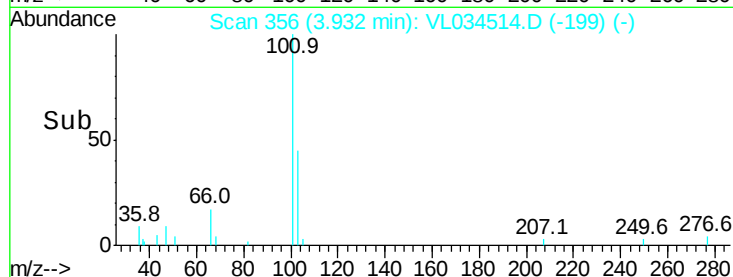
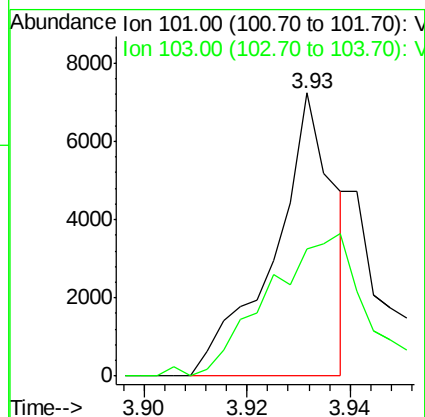
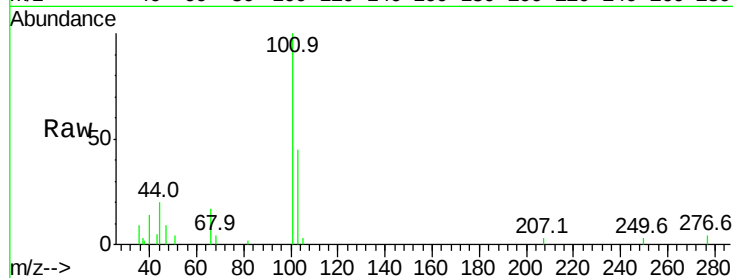
VSTDIC0.03

Tgt Ion:101 Resp: 5839

Ion Ratio Lower Upper

101 100

103 44.8 52.1 78.1#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL034514.D

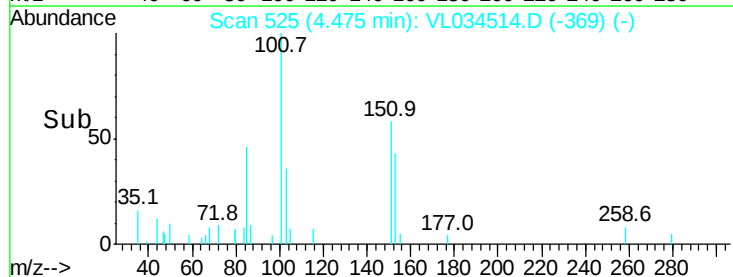
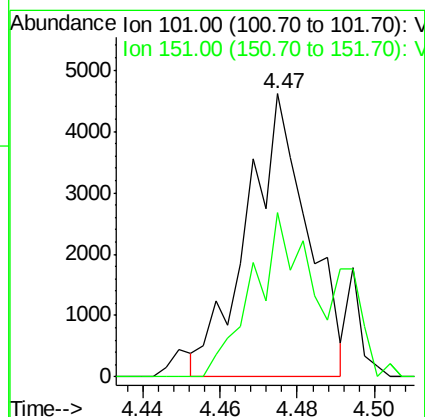
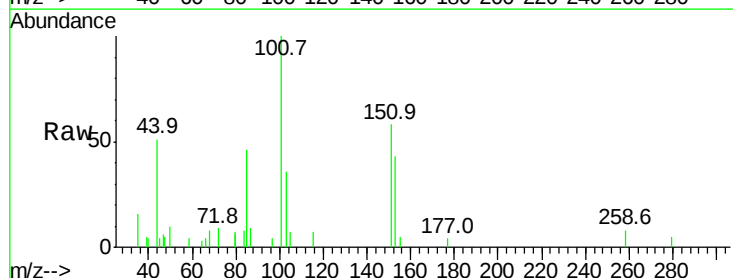
Acq: 30 Dec 2019 13:35

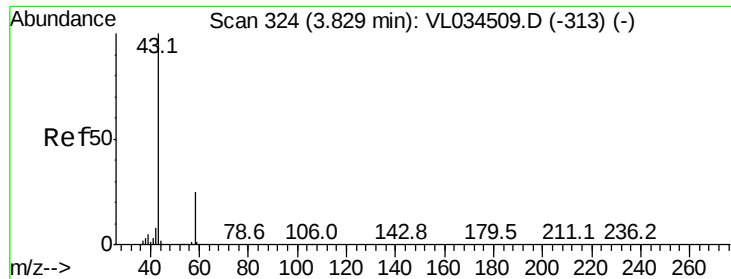
Tgt Ion:101 Resp: 5002

Ion Ratio Lower Upper

101 100

151 70.8 57.8 86.6





#15

Acetone

Concen: 0.139 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.03 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

ClientSampleId :

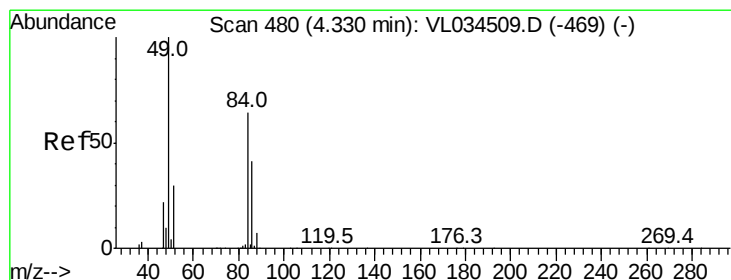
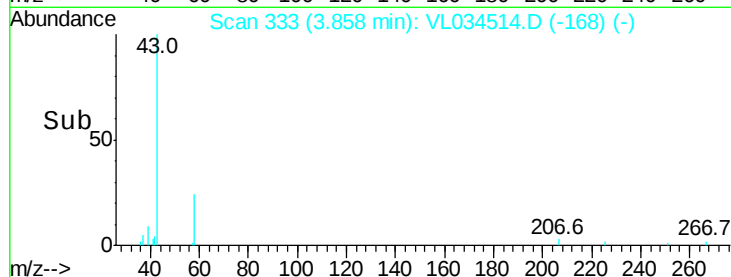
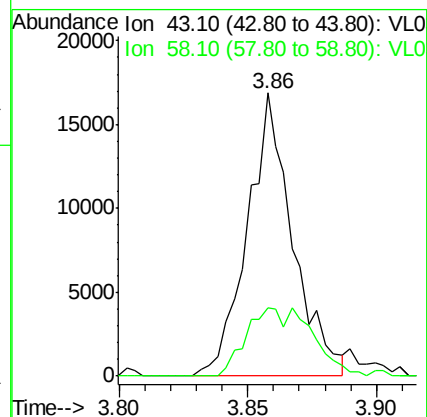
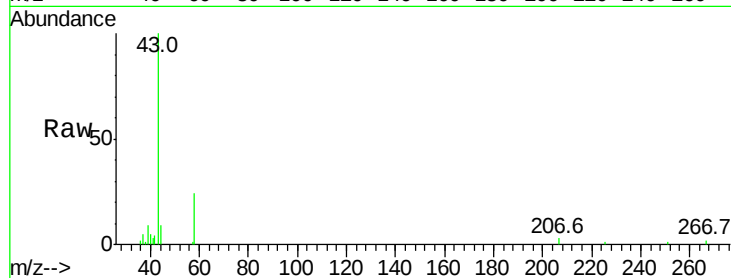
VSTDIC0.03

Tgt Ion: 43 Resp: 20749

Ion Ratio Lower Upper

43 100

58 35.4 20.4 30.6#



#20

Methylene Chloride

Concen: 0.151 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Tgt Ion: 84 Resp: 7985

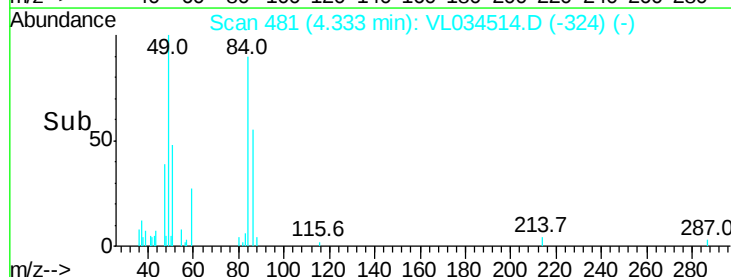
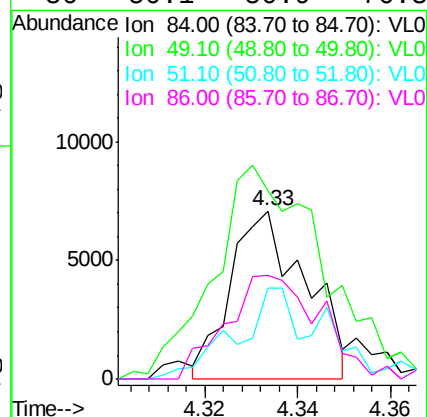
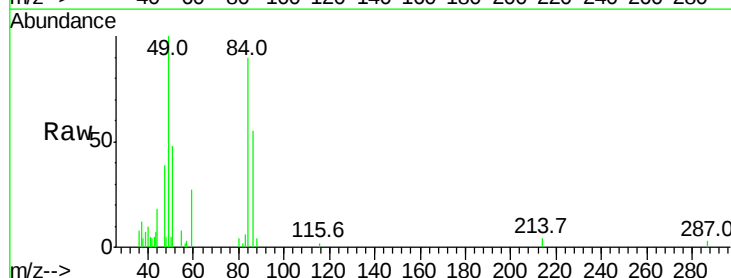
Ion Ratio Lower Upper

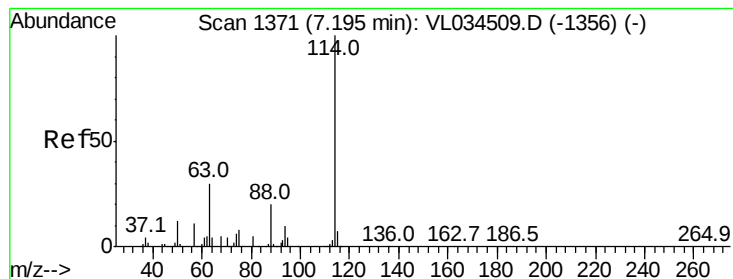
84 100

49 80.8 124.4 186.6#

51 50.4 37.0 55.6

86 50.1 50.9 76.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. 0.00 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

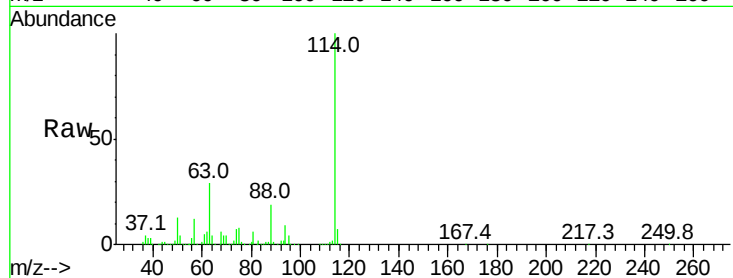
Tgt Ion:114 Resp: 2060237

Ion Ratio Lower Upper

114 100

63 30.1 24.1 36.1

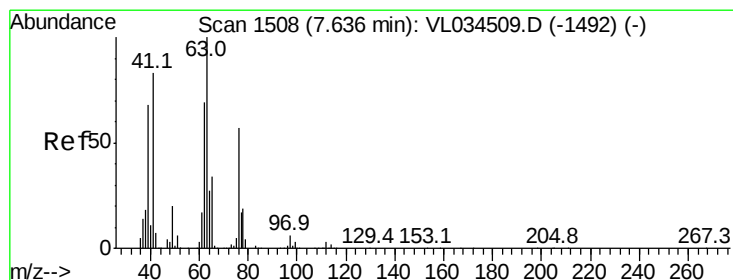
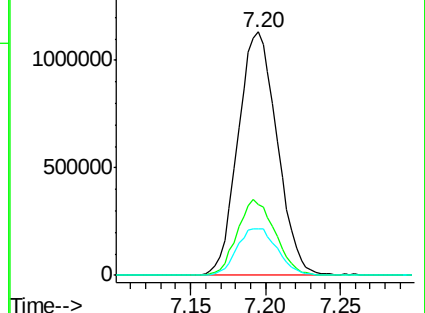
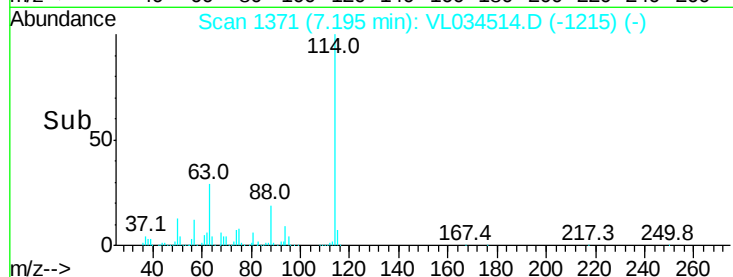
88 19.7 15.7 23.5



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: 7.810 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.44 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

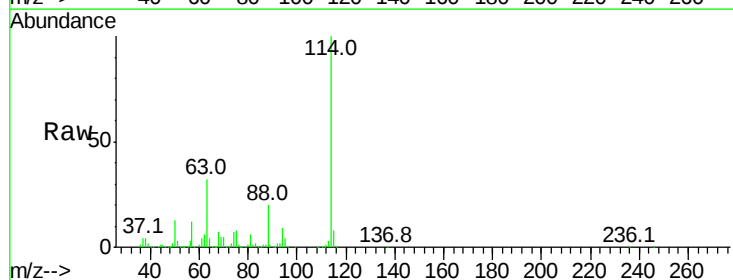
Tgt Ion: 63 Resp: 619679

Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

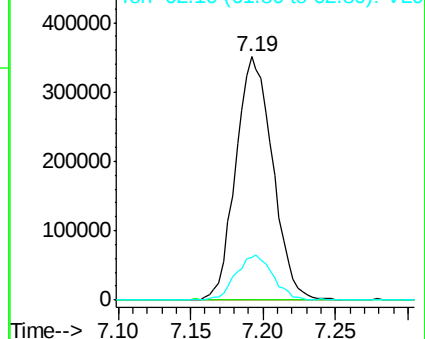
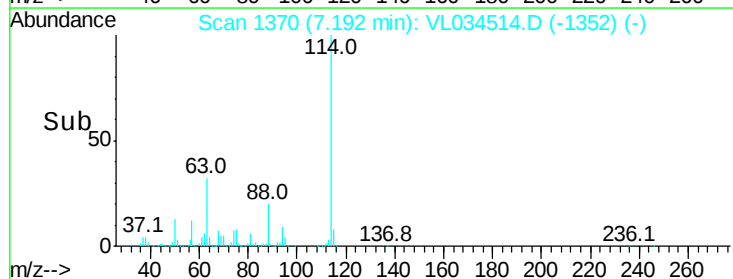
62 17.3 54.9 82.3#

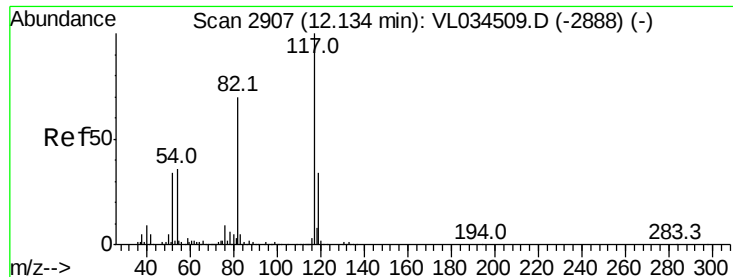


Abundance Ion 63.10 (62.80 to 63.80): VL0

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: 12.13 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL034514.D

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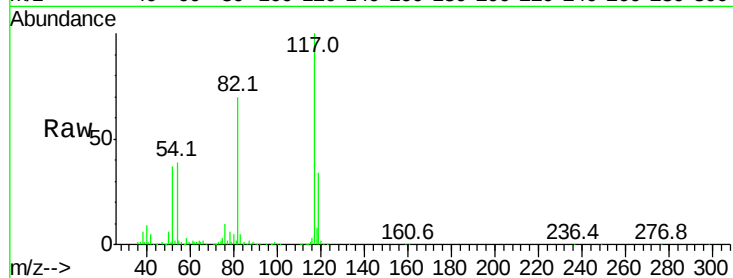
Tgt Ion: 117 Resp: 2026707

Ion Ratio Lower Upper

117 100

82 71.7 56.2 84.4

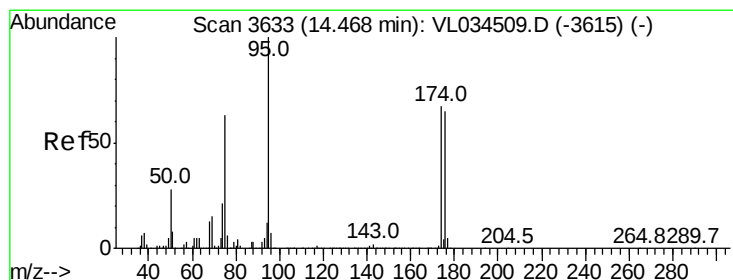
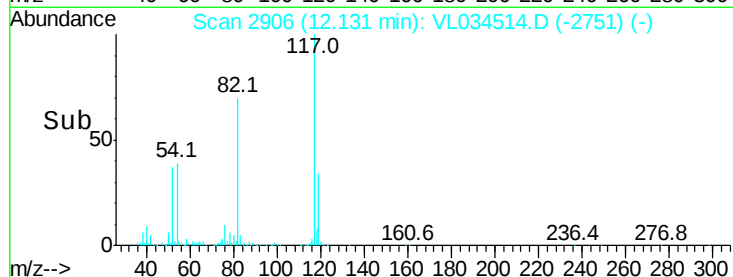
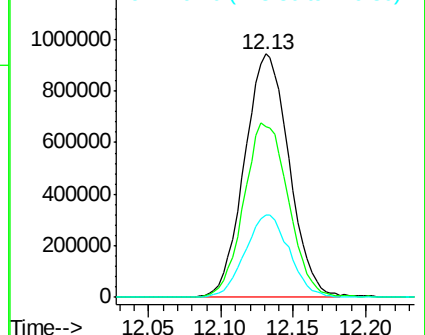
119 33.7 27.1 40.7



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: 9.962 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

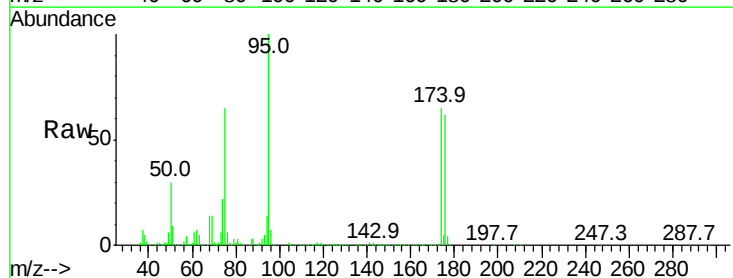
Tgt Ion: 95 Resp: 1698465

Ion Ratio Lower Upper

95 100

174 64.5 52.4 78.6

175 4.6 3.9 5.9



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

