

Data File : VL034175.D
Acq On : 17 Sep 2019 7:26
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Sep 17 08:06:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Sep 17 05:58:04 2019
QLast Update : Tue Sep 17 05:58:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1272415	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2081505	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2119220	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1901587 10.88 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 108.80%

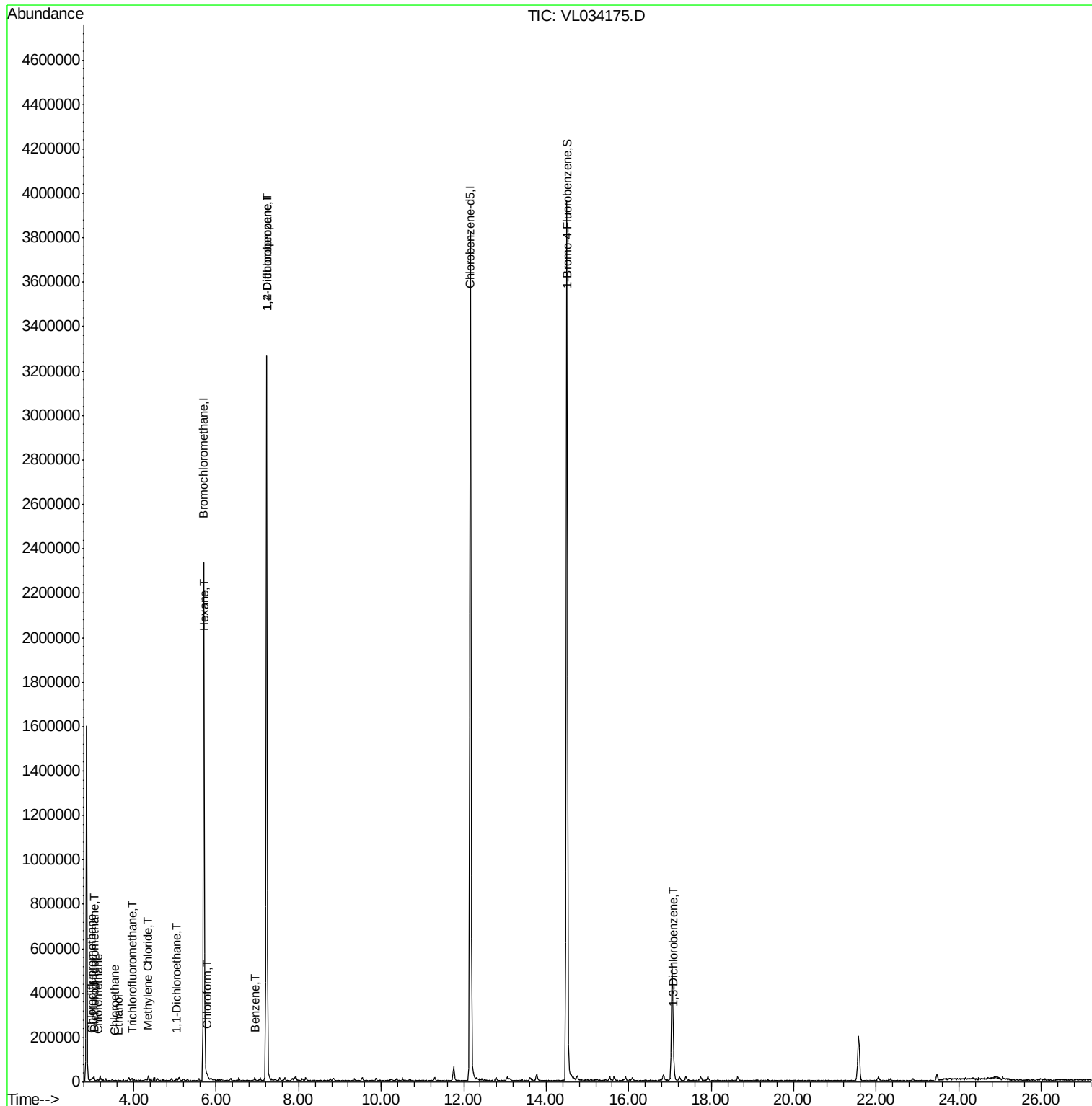
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	9348	0.046	ppbv	100
3) Chlorodifluoromethane	2.97	51	6925	0.048	ppbv	97
4) Chloromethane	3.13	50	3249	0.037	ppbv #	69
7) Chloroethane	3.56	64	1115	0.040	ppbv #	70
11) Trichlorofluoromethane	3.96	101	5158	0.030	ppbv	94
13) Ethanol	3.62	45	689	0.045	ppbv #	1
20) Methylene Chloride	4.36	84	5928	0.118	ppbv #	69
24) 1,1-Dichloroethane	5.03	63	5960	0.035	ppbv #	69
26) Hexane	5.72	57	5234	0.035	ppbv #	1
29) Chloroform	5.78	83	6136	0.031	ppbv	91
36) Benzene	6.94	78	8967	0.038	ppbv #	63
39) 1,2-Dichloropropane	7.22	63	694357	6.761	ppbv #	21
75) 1,3-Dichlorobenzene	17.10	146	5892	0.035	ppbv #	42

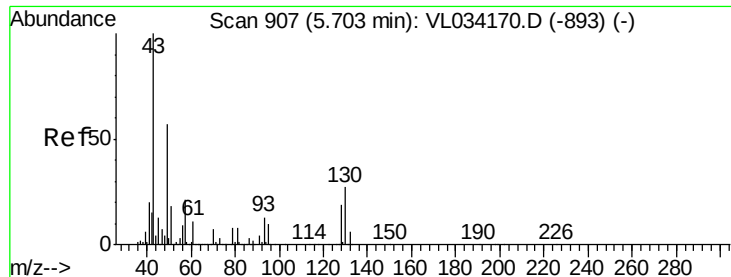
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 17 08:06:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 05:58:04 2019
QLast Update : Tue Sep 17 05:58:04 2019
Response via : Initial Calibration

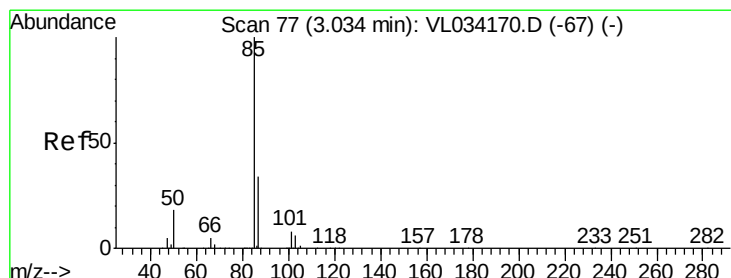
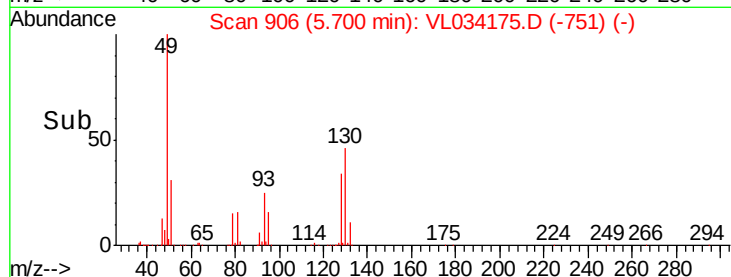
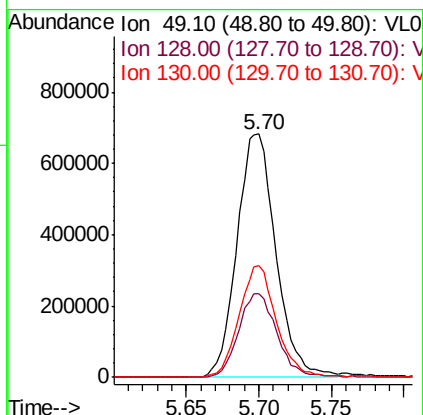
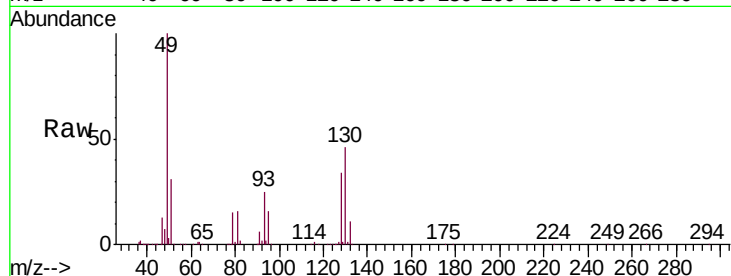




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.70 min Scan# 906
 Delta R.T. -0.00 min
 Lab File: VL034175.D
 Acq: 17 Sep 2019 7:26

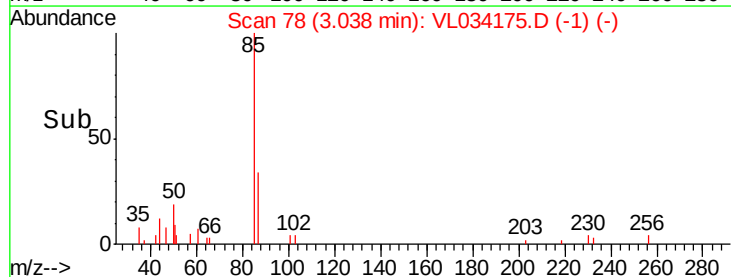
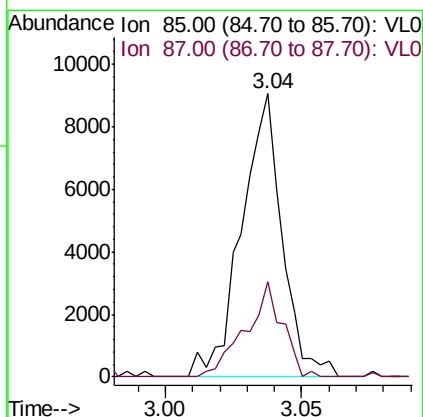
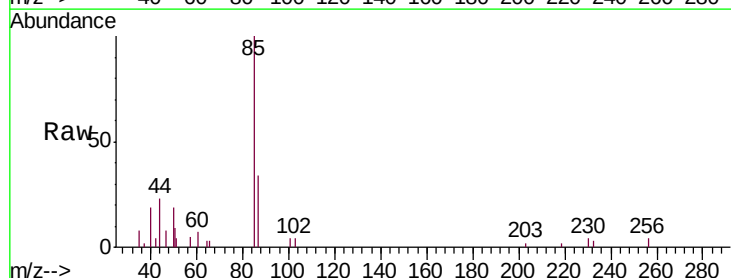
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

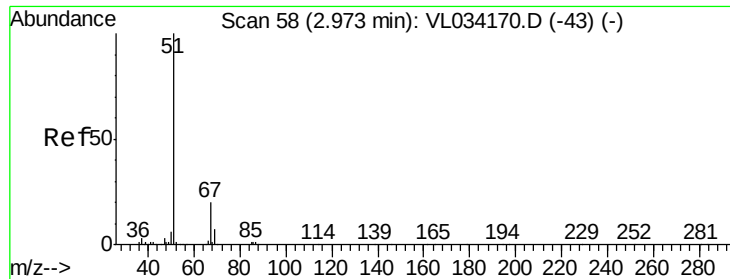
Tgt Ion: 49 Resp: 1272415
 Ion Ratio Lower Upper
 49 100
 128 34.4 17.6 52.9
 130 44.6 22.3 66.9



#2
 Dichlorodifluoromethane
 Concen: 0.046 ppbv
 RT: 3.04 min Scan# 78
 Delta R.T. 0.00 min
 Lab File: VL034175.D
 Acq: 17 Sep 2019 7:26

Tgt Ion: 85 Resp: 9348
 Ion Ratio Lower Upper
 85 100
 87 33.8 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.048 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034175.D

Acq: 17 Sep 2019 7:26

Instrument :

MSVOA_L

ClientSampleId :

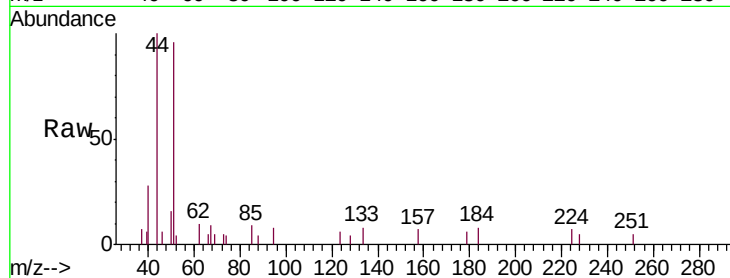
VSTDIC0.03

Tgt Ion: 51 Resp: 6925

Ion Ratio Lower Upper

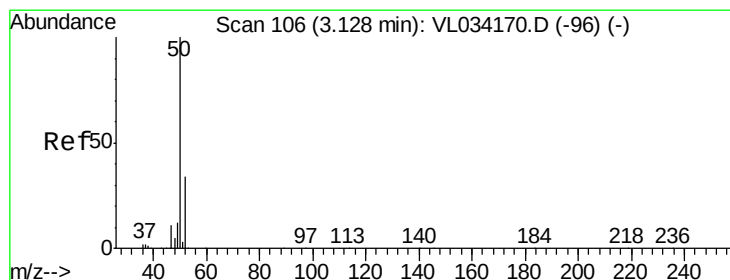
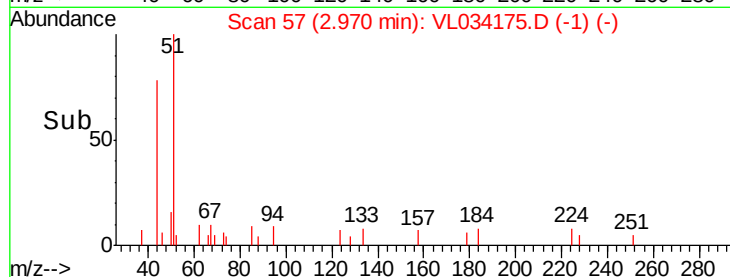
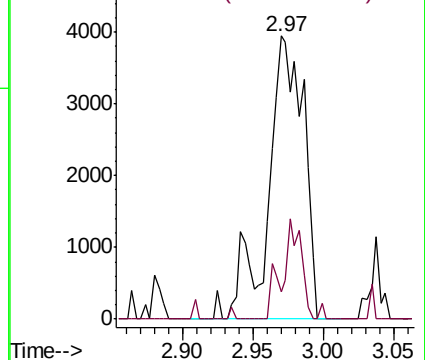
51 100

67 20.0 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034175.D

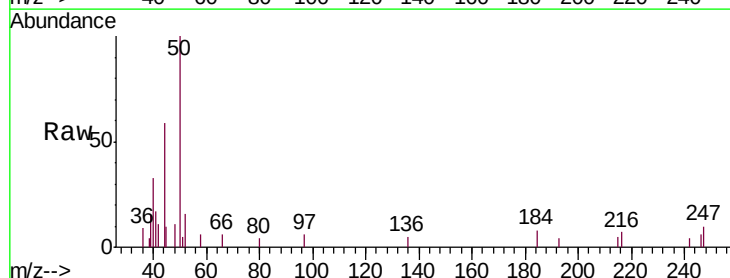
Acq: 17 Sep 2019 7:26

Tgt Ion: 50 Resp: 3249

Ion Ratio Lower Upper

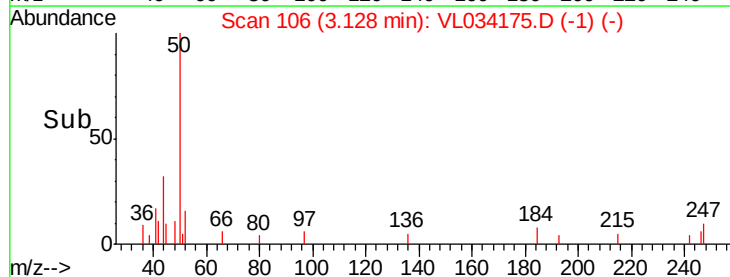
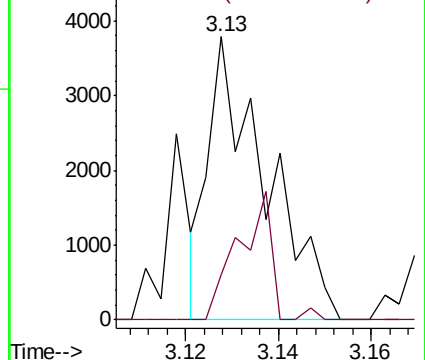
50 100

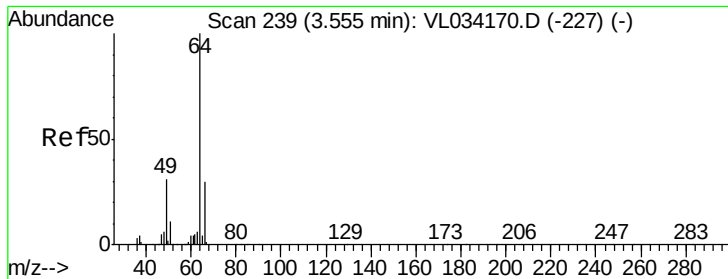
52 16.1 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.040 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL034175.D

Acq: 17 Sep 2019 7:26

Instrument :

MSVOA_L

ClientSampleId :

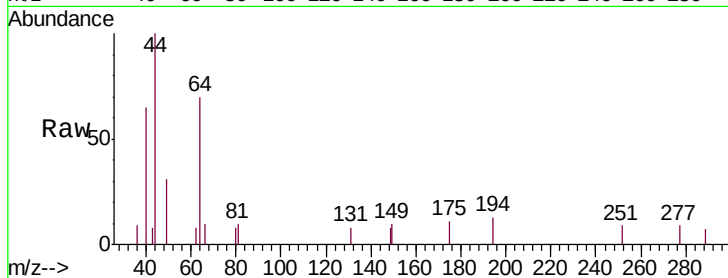
VSTDIC0.03

Tgt Ion: 64 Resp: 1115

Ion Ratio Lower Upper

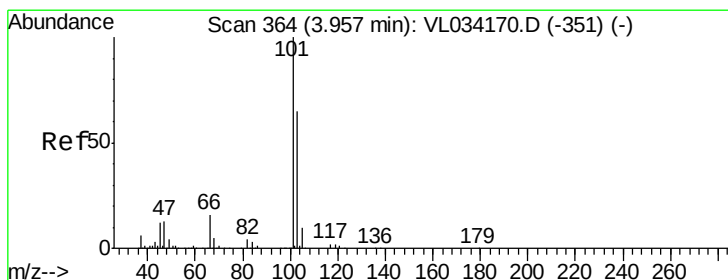
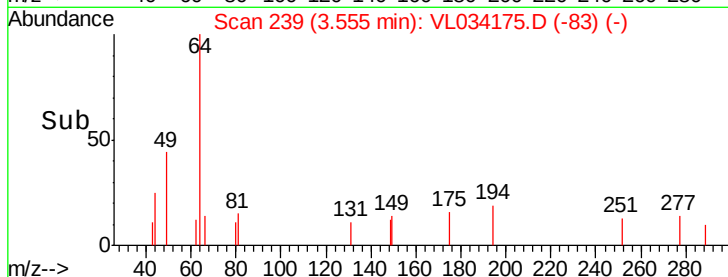
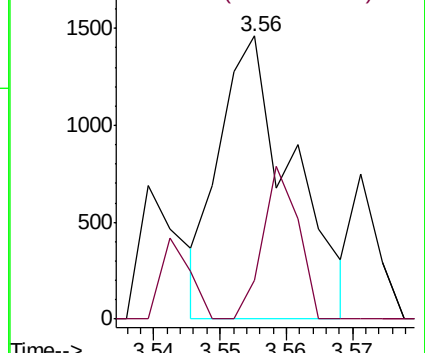
64 100

66 13.9 24.2 36.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#11

Trichlorofluoromethane

Concen: 0.030 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL034175.D

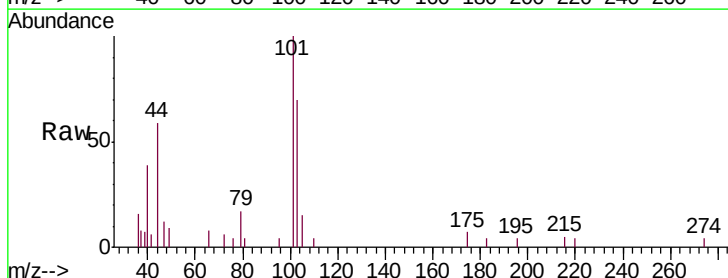
Acq: 17 Sep 2019 7:26

Tgt Ion: 101 Resp: 5158

Ion Ratio Lower Upper

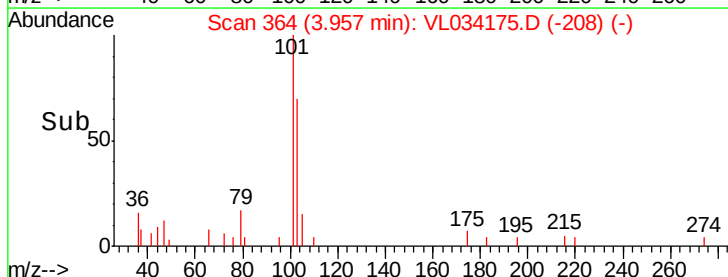
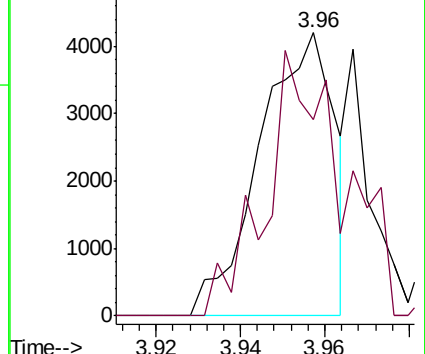
101 100

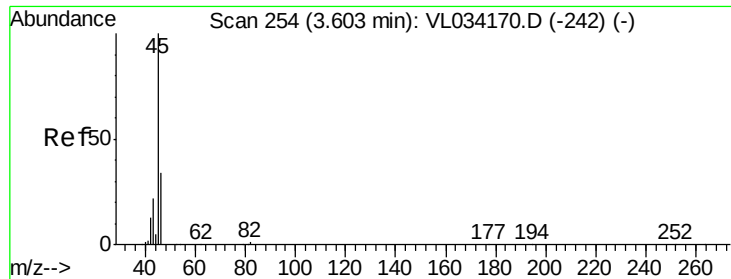
103 69.6 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

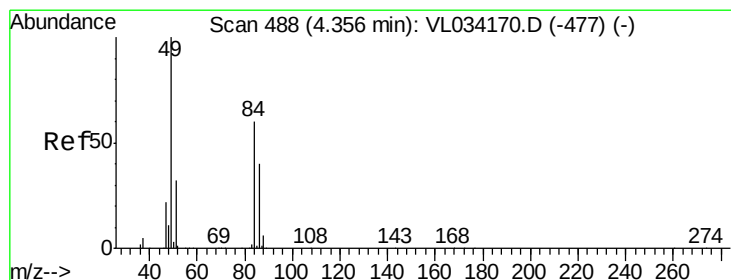
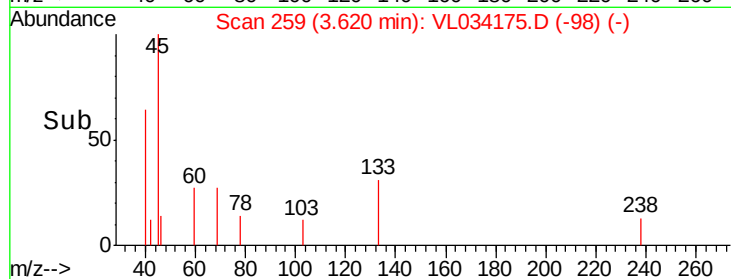
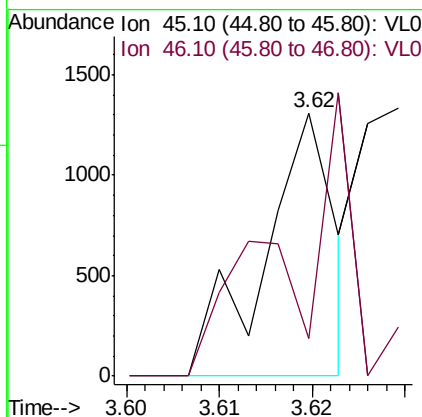
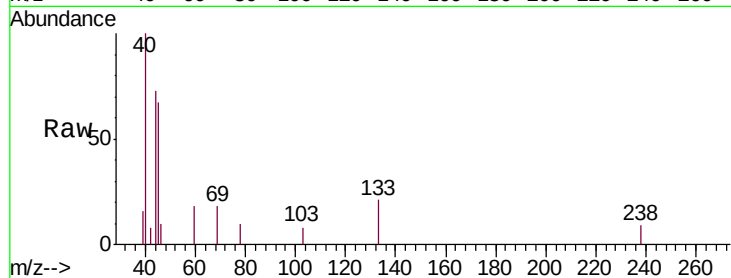




#13
Ethanol
Concen: 0.045 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL034175.D
Acq: 17 Sep 2019 7:26

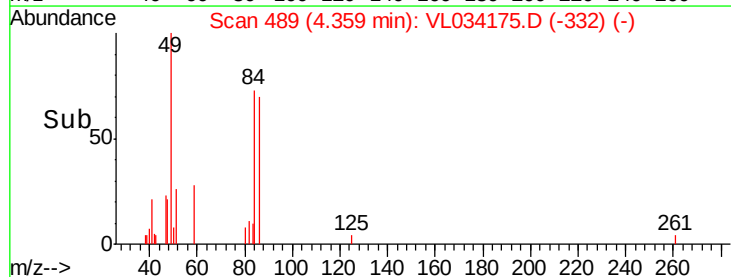
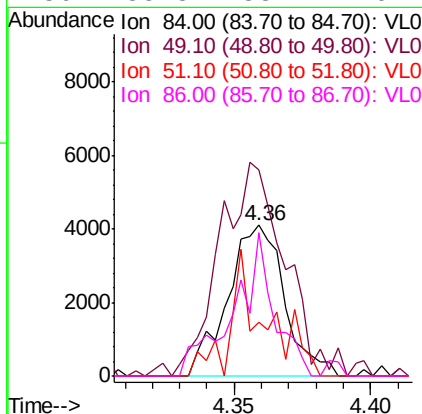
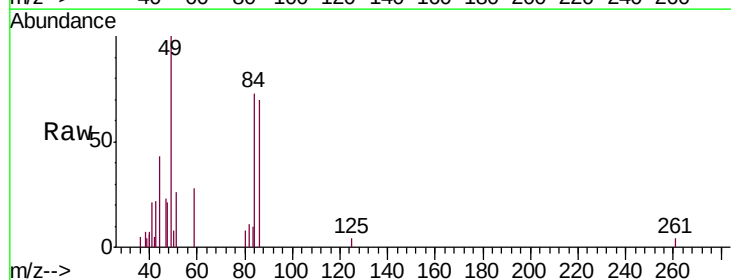
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

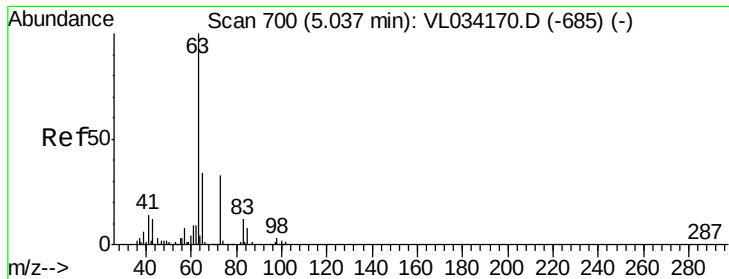
Tgt Ion: 45 Resp: 689
Ion Ratio Lower Upper
45 100
46 187.7 15.5 61.9#



#20
Methylene Chloride
Concen: 0.118 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.00 min
Lab File: VL034175.D
Acq: 17 Sep 2019 7:26

Tgt Ion: 84 Resp: 5928
Ion Ratio Lower Upper
84 100
49 119.4 133.8 200.8#
51 35.9 43.6 65.4#
86 85.8 53.1 79.7#





#24

1,1-Dichloroethane

Concen: 0.035 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034175.D

Acq: 17 Sep 2019 7:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

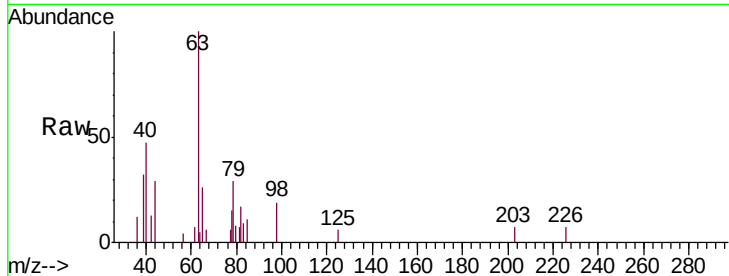
Tgt Ion: 63 Resp: 5960

Ion Ratio Lower Upper

63 100

98 18.3 1.8 5.3#

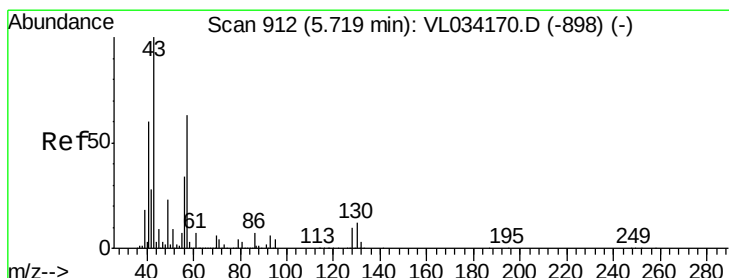
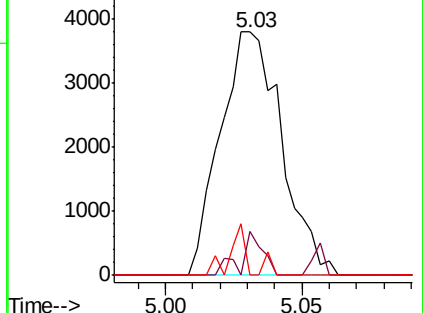
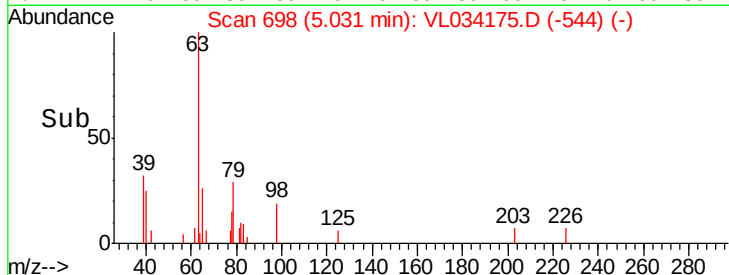
100 0.0 1.0 3.0#



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



#26

Hexane

Concen: 0.035 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.00 min

Lab File: VL034175.D

Acq: 17 Sep 2019 7:26

Tgt Ion: 57 Resp: 5234

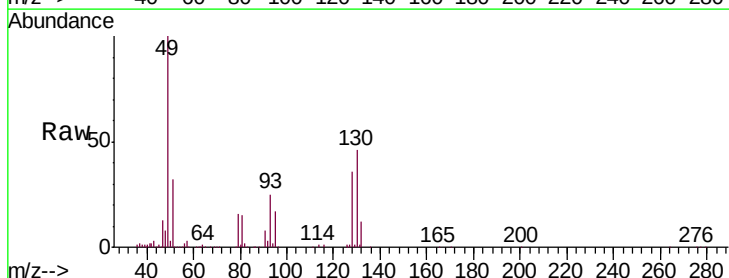
Ion Ratio Lower Upper

57 100

41 171.8 78.5 117.7#

43 0.0 189.5 284.3#

56 102.7 43.2 64.8#

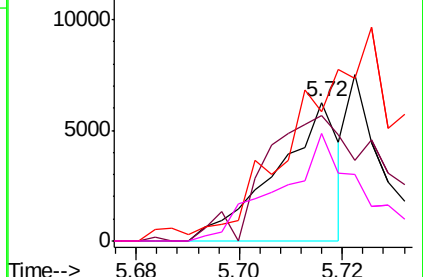
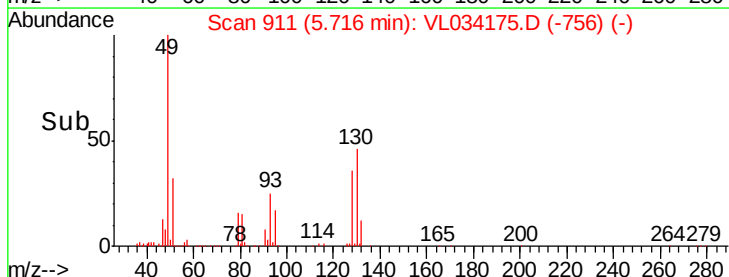


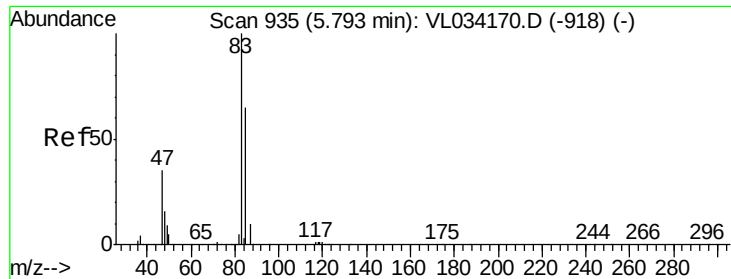
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

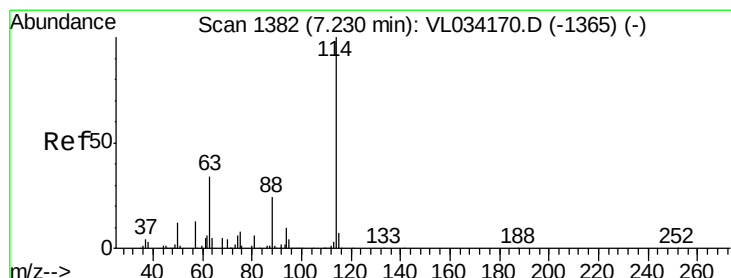
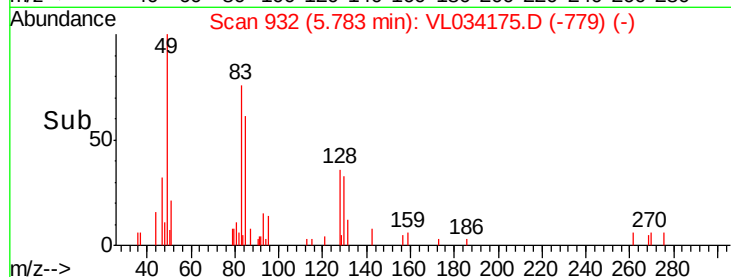
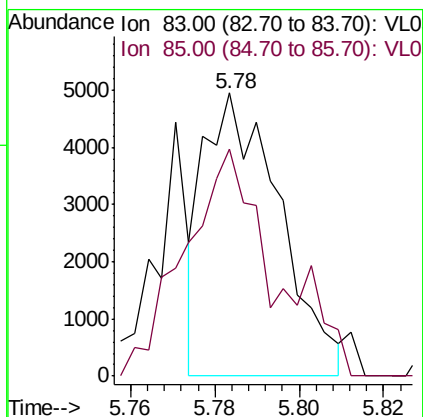
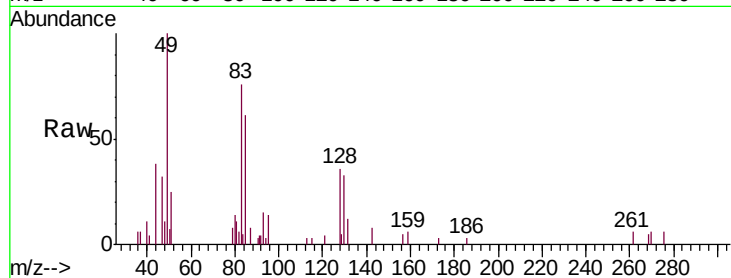




#29
Chloroform
Concen: 0.031 ppbv
RT: 5.78 min Scan# 932
Delta R.T. -0.01 min
Lab File: VL034175.D
Acq: 17 Sep 2019 7:26

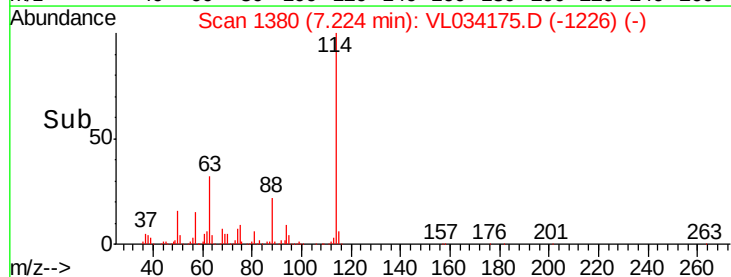
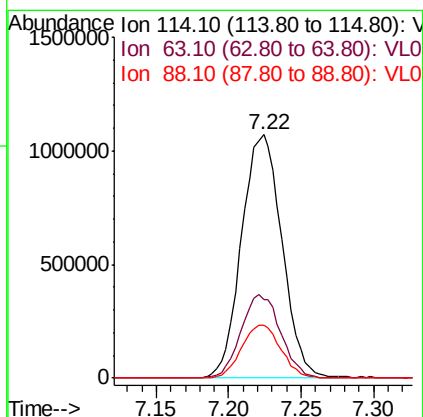
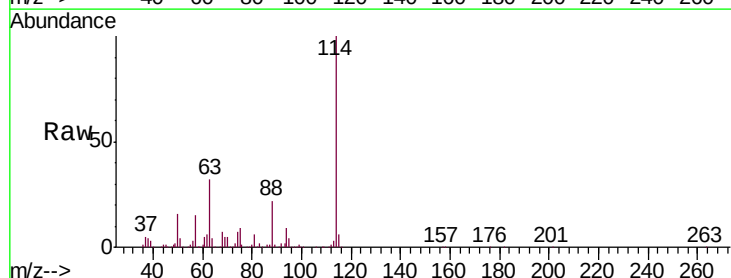
Instrument :
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VSTDIC0.03

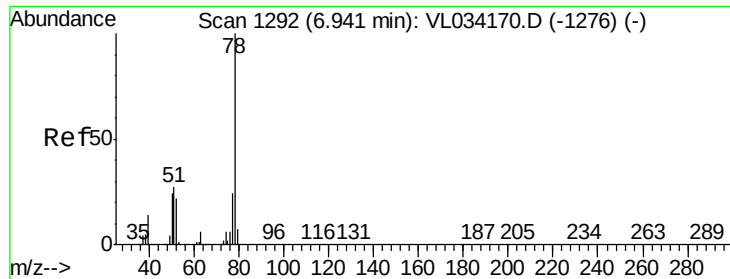
Tgt Ion: 83 Resp: 6136
Ion Ratio Lower Upper
83 100
85 72.2 52.3 78.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.22 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VL034175.D
Acq: 17 Sep 2019 7:26

Tgt Ion: 114 Resp: 2081505
Ion Ratio Lower Upper
114 100
63 33.7 27.8 41.6
88 21.4 17.1 25.7





#36

Benzene

Concen: 0.038 ppbv

RT: 6.94 min Scan# 1292

Delta R.T. 0.00 min

Lab File: VL034175.D

Acq: 17 Sep 2019 7:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

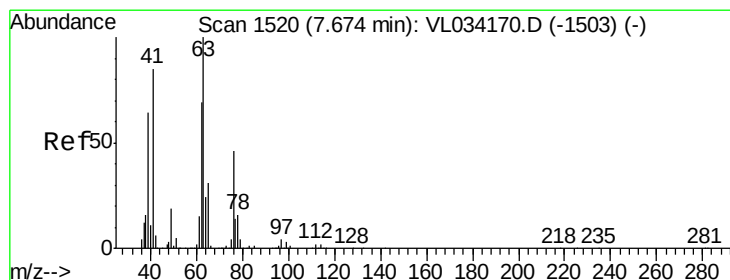
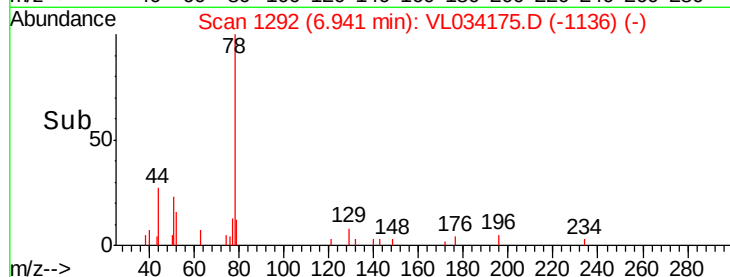
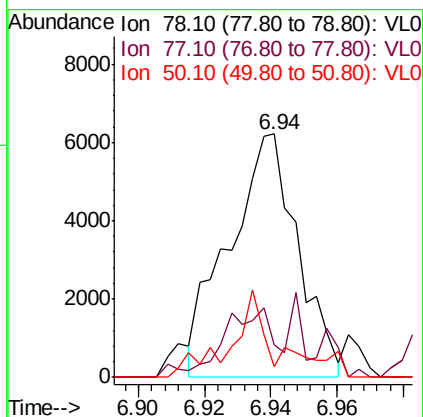
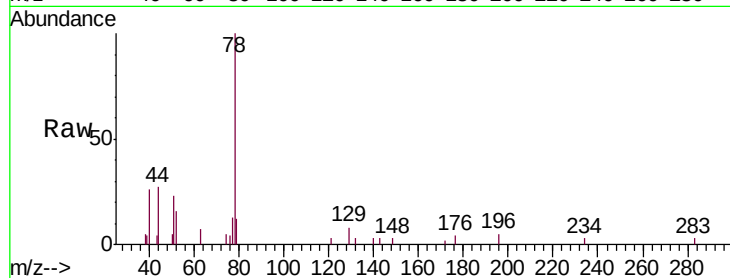
Tgt Ion: 78 Resp: 8967

Ion Ratio Lower Upper

78 100

77 11.0 19.0 28.4#

50 0.0 18.9 28.3#



#39

1,2-Dichloropropane

Concen: 6.761 ppbv

RT: 7.22 min Scan# 1379

Delta R.T. -0.45 min

Lab File: VL034175.D

Acq: 17 Sep 2019 7:26

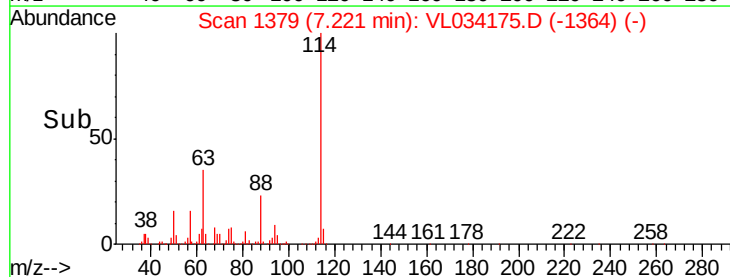
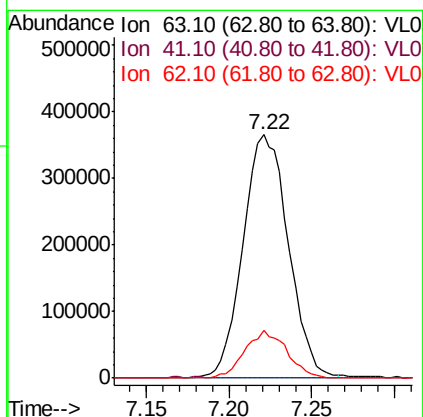
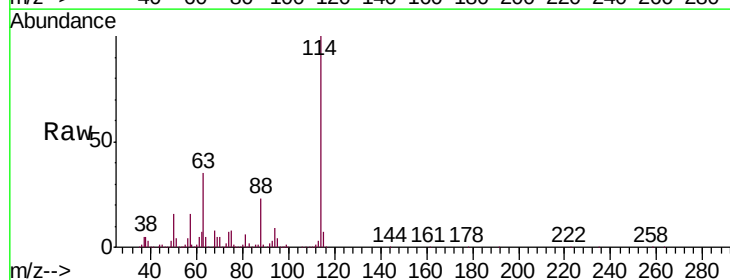
Tgt Ion: 63 Resp: 694357

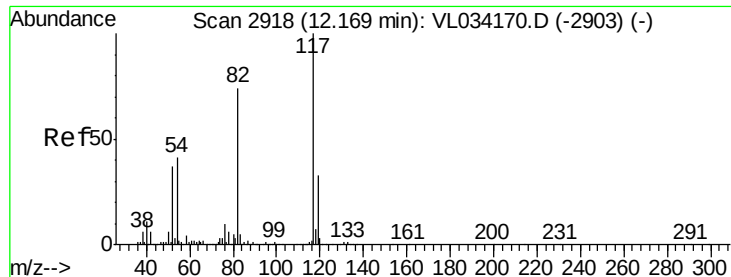
Ion Ratio Lower Upper

63 100

41 0.1 68.4 102.6#

62 19.7 55.4 83.2#

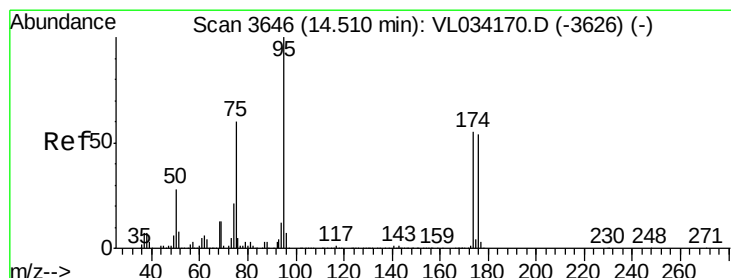
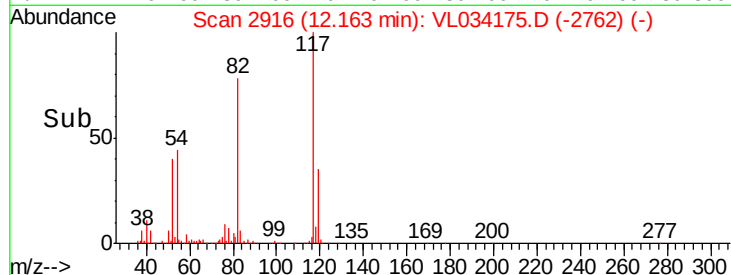
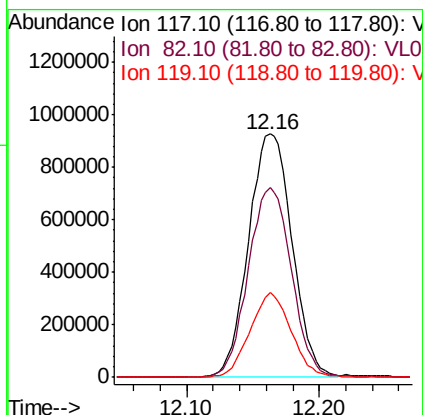
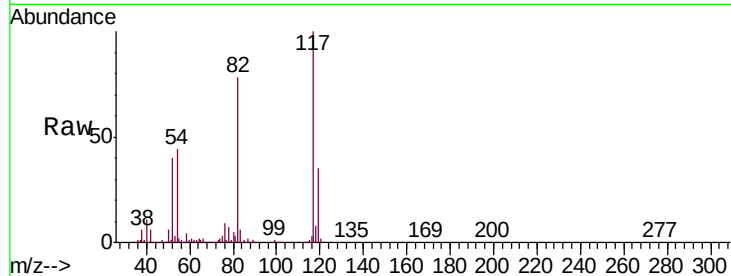




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.16 min Scan# 2916
 Delta R.T. -0.01 min
 Lab File: VL034175.D
 Acq: 17 Sep 2019 7:26

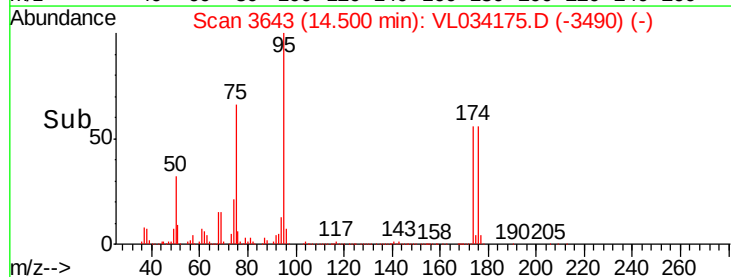
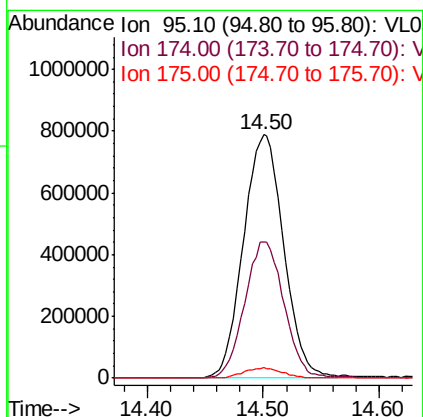
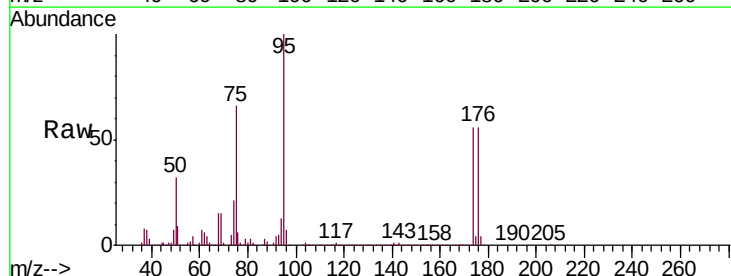
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

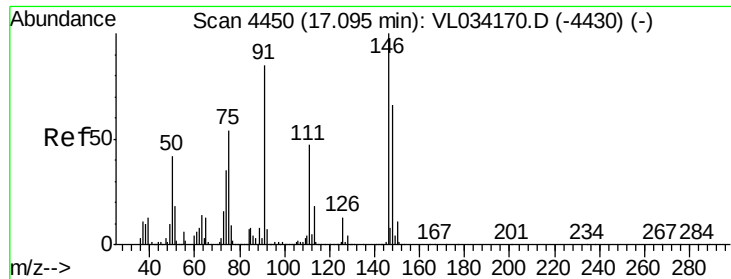
Tgt Ion:117 Resp: 2119220
 Ion Ratio Lower Upper
 117 100
 82 77.6 58.2 87.4
 119 32.9 23.7 35.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.881 ppbv
 RT: 14.50 min Scan# 3643
 Delta R.T. -0.01 min
 Lab File: VL034175.D
 Acq: 17 Sep 2019 7:26

Tgt Ion: 95 Resp: 1901587
 Ion Ratio Lower Upper
 95 100
 174 55.2 45.1 67.7
 175 4.0 3.3 4.9

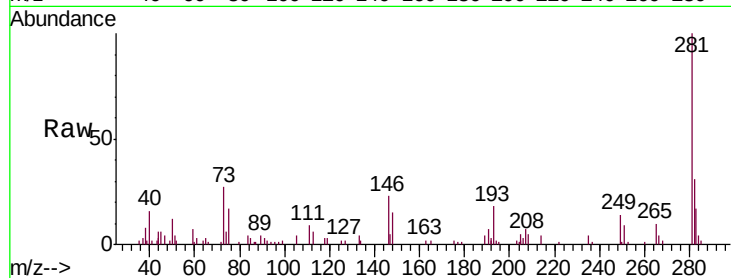




#75
 1,3-Dichlorobenzene
 Concen: 0.035 ppbv
 RT: 17.10 min Scan# 4451
 Delta R.T. 0.00 min
 Lab File: VL034175.D
 Acq: 17 Sep 2019 7:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	95.5	25.9	77.8#
148	108.8	32.6	97.7#



Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

