

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034005.D
 Acq On : 3 Jul 2019 4:24
 Operator : SY/AP
 Sample : K3591-13 LOD 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 03 04:59:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	901845	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2432397	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2426731	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1949108	9.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.20%

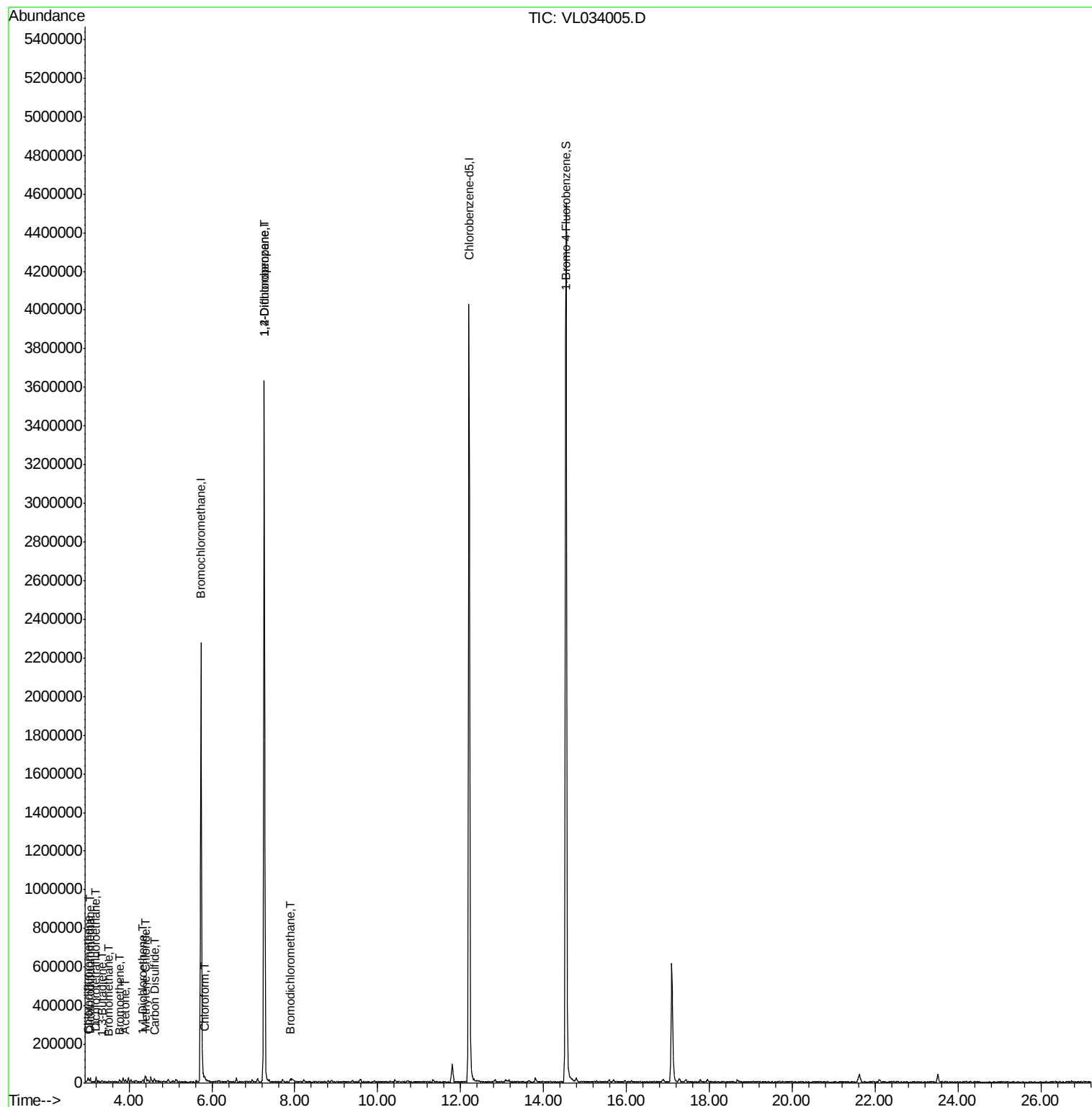
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	6238	0.034	ppbv 96
3) Chlorodifluoromethane	3.00	51	8649	0.078	ppbv # 89
6) Bromomethane	3.50	94	1620	0.038	ppbv # 8
8) Dichlorotetrafluoroethane	3.21	85	9061	0.050	ppbv # 60
14) Bromoethene	3.77	108	1969	0.036	ppbv # 14
15) Acetone	3.91	43	5720	0.038	ppbv # 48
16) 1,3-Butadiene	3.35	39	1775	0.033	ppbv # 26
18) 1,1-Dichloroethene	4.33	96	2424	0.037	ppbv # 79
20) Methylene Chloride	4.38	84	6417	0.097	ppbv # 42
27) Carbon Disulfide	4.60	76	6888	0.043	ppbv # 37
29) Chloroform	5.82	83	5901	0.033	ppbv # 59
39) 1,2-Dichloropropane	7.26	63	606932	8.576	ppbv # 23
42) Bromodichloromethane	7.89	83	6137	0.033	ppbv # 60

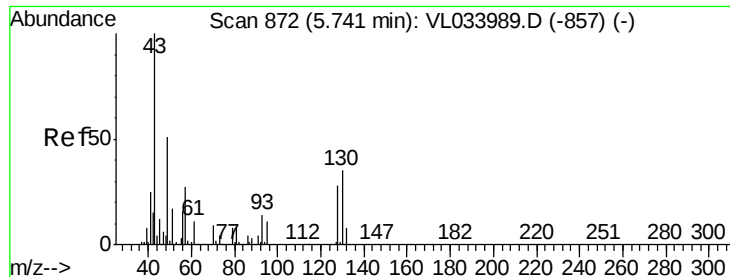
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jul 03 04:59:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

Instrument :

MSVOA_L

ClientSampleId :

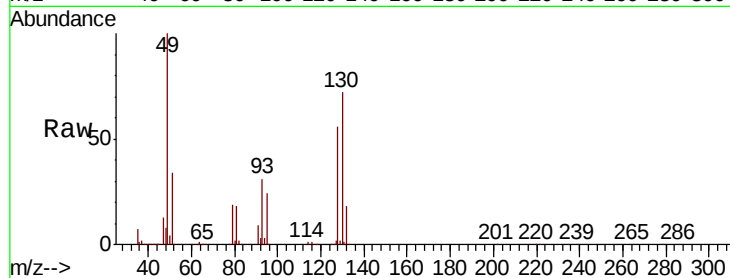
Tot Ion: 49 Resp: 901845

Ion Ratio Lower Upper

49 100

128 58.9 27.9 83.6

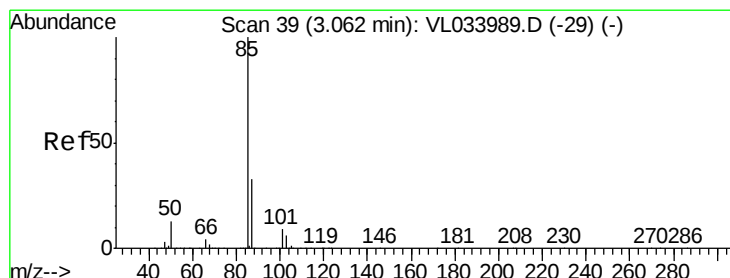
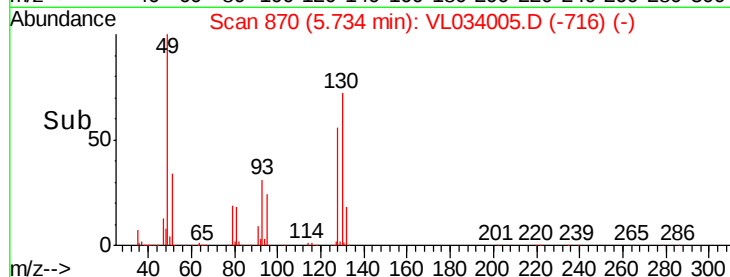
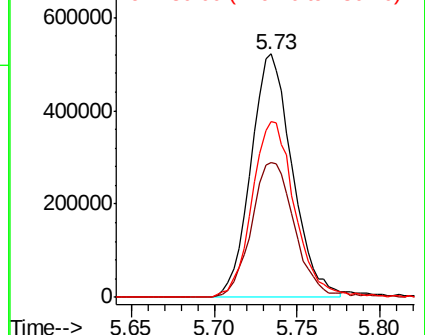
130 75.7 35.8 107.4



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



#2

Dichlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.00 min

Lab File: VL034005.D

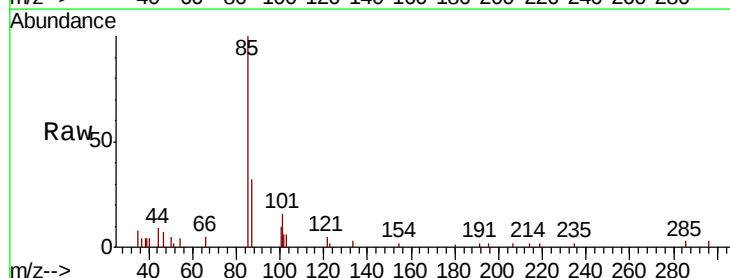
Acq: 3 Jul 2019 4:24

Tgt Ion: 85 Resp: 6238

Ion Ratio Lower Upper

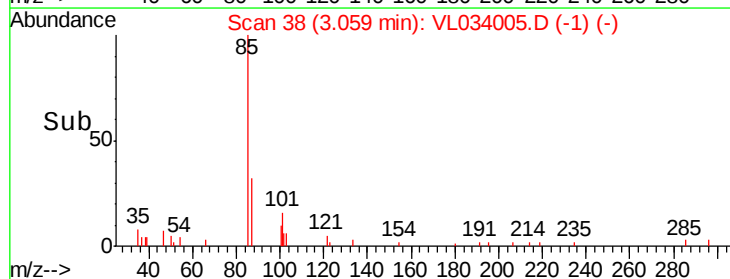
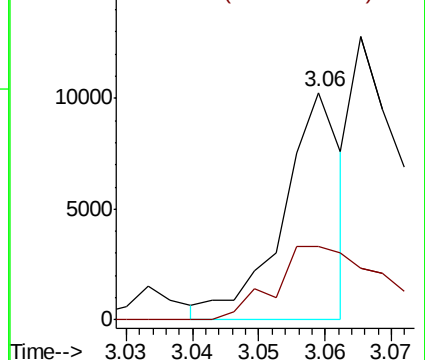
85 100

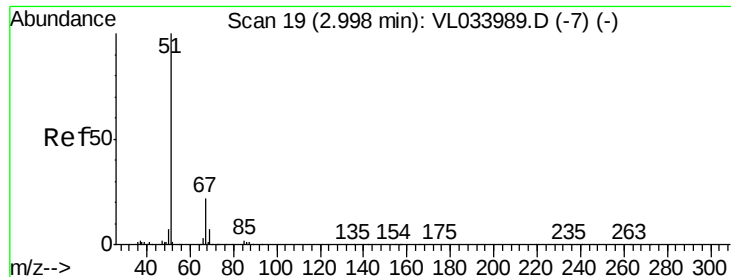
87 34.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

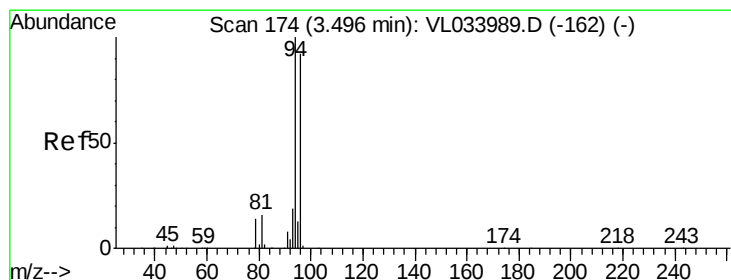
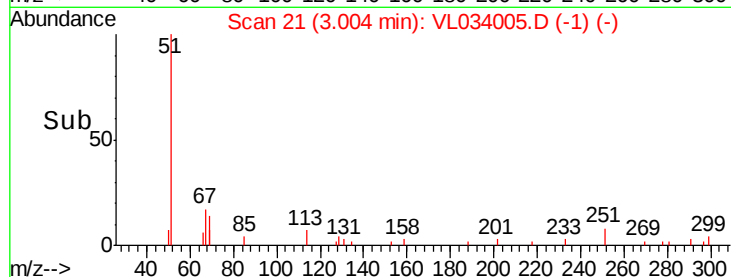
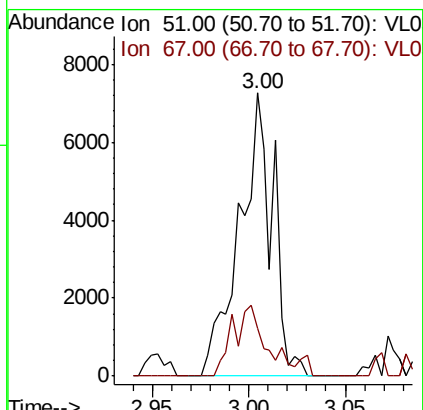
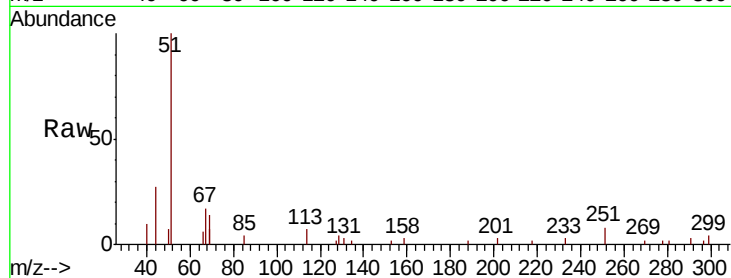




#3
Chlorodifluoromethane
Concen: 0.078 ppbv
RT: 3.00 min Scan# 21
Delta R.T. 0.01 min
Lab File: VL034005.D
Acq: 3 Jul 2019 4:24

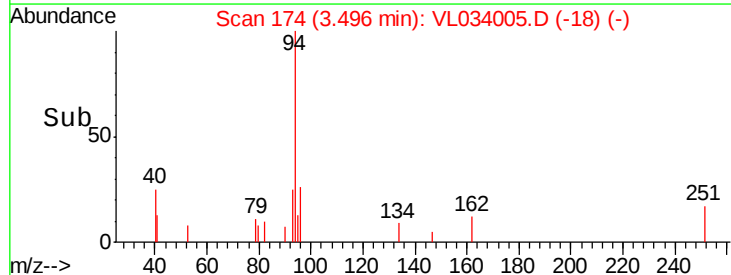
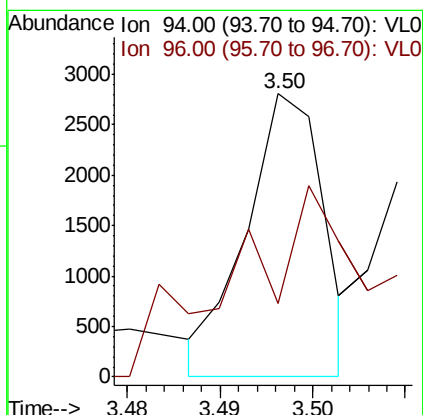
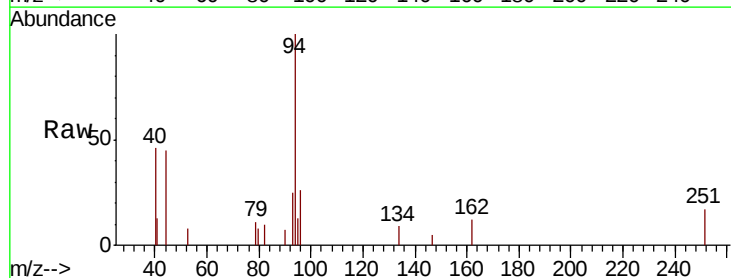
Instrument :
MSVOA_L
ClientSampled :

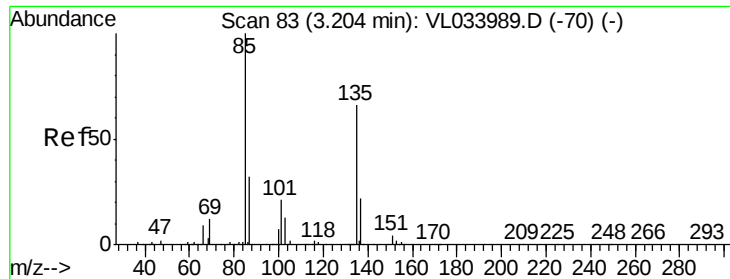
Tot Ion: 51 Resp: 8649
Ion Ratio Lower Upper
51 100
67 27.0 17.3 25.9#



#6
Bromomethane
Concen: 0.038 ppbv
RT: 3.50 min Scan# 174
Delta R.T. -0.00 min
Lab File: VL034005.D
Acq: 3 Jul 2019 4:24

Tgt Ion: 94 Resp: 1620
Ion Ratio Lower Upper
94 100
96 4.1 73.8 110.8#





#8

Dichlorotetrafluoroethane

Concen: 0.050 ppbv

RT: 3.21 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

Instrument :

MSVOA_L

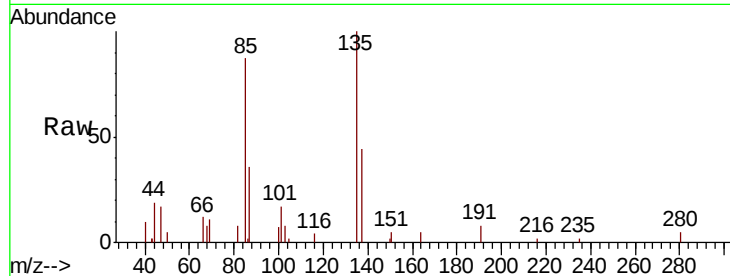
ClientSampleId :

Tot Ion: 85 Resp: 9061

Ion Ratio Lower Upper

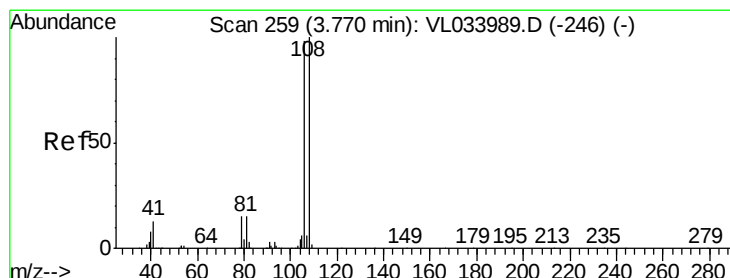
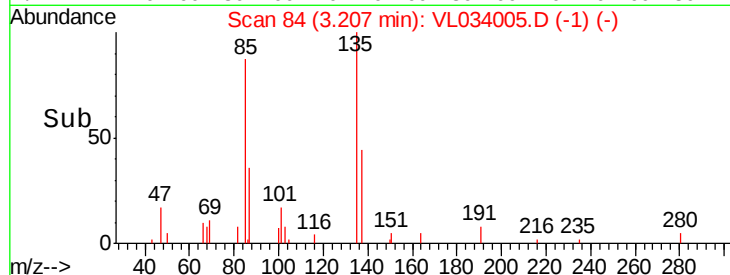
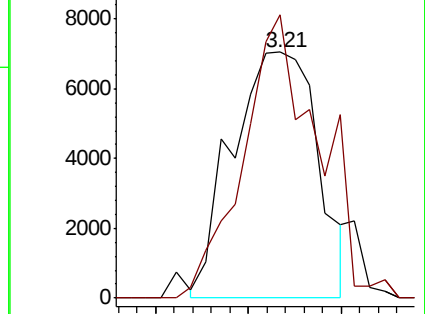
85 100

135 101.3 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#14

Bromoethene

Concen: 0.036 ppbv

RT: 3.77 min Scan# 259

Delta R.T. -0.00 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

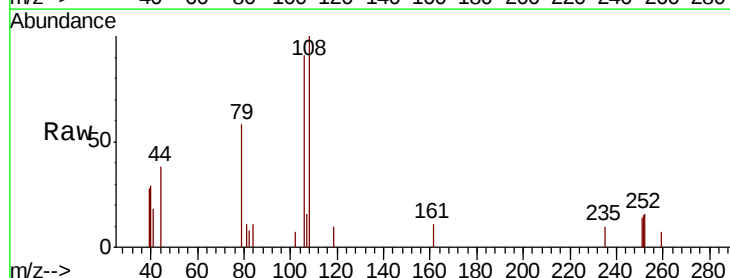
Tgt Ion:108 Resp: 1969

Ion Ratio Lower Upper

108 100

106 181.9 85.6 128.4#

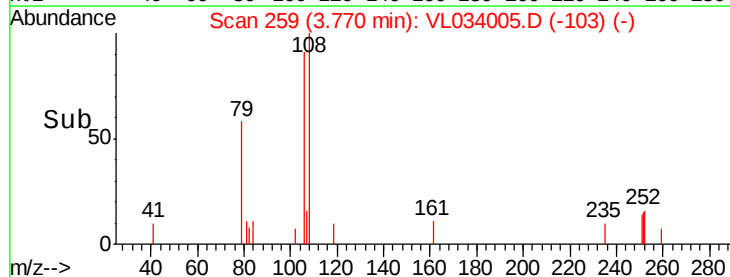
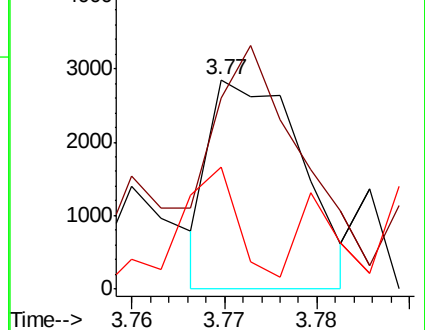
79 93.3 14.0 21.0#

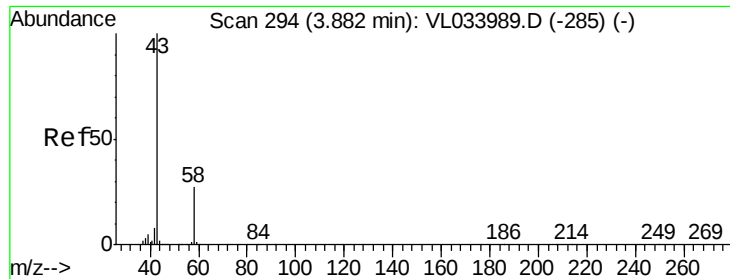


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.038 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.03 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

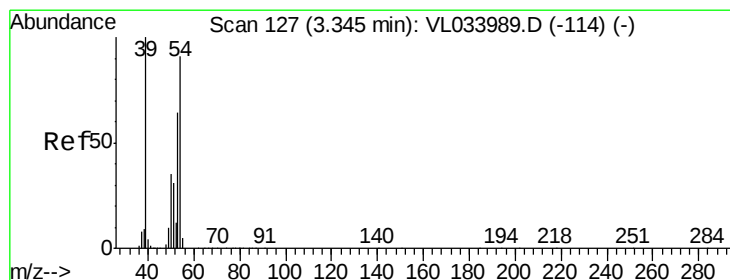
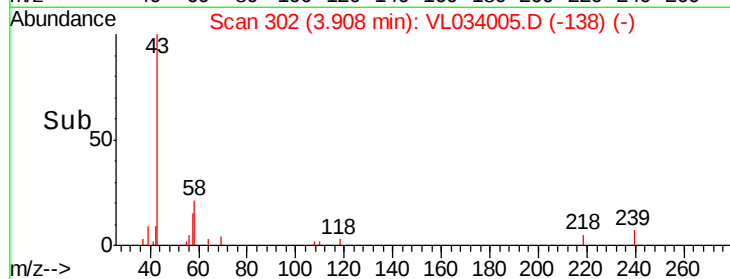
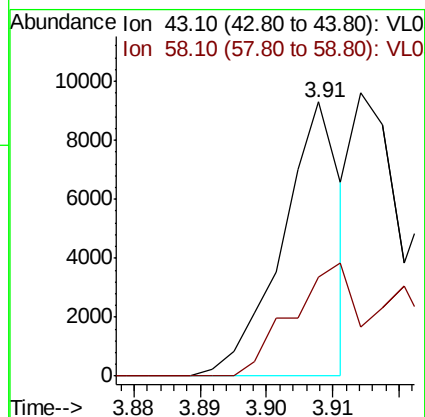
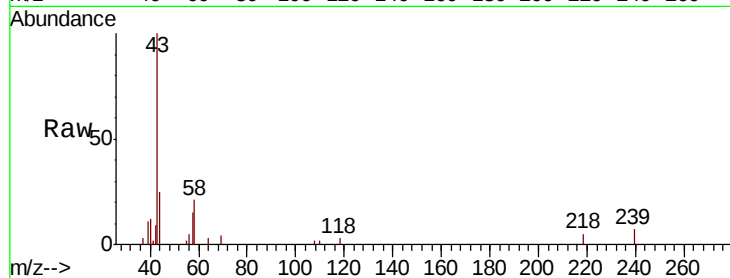
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 5720

Ion Ratio Lower Upper

43 100

58 0.0 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 3.35 min Scan# 128

Delta R.T. 0.00 min

Lab File: VL034005.D

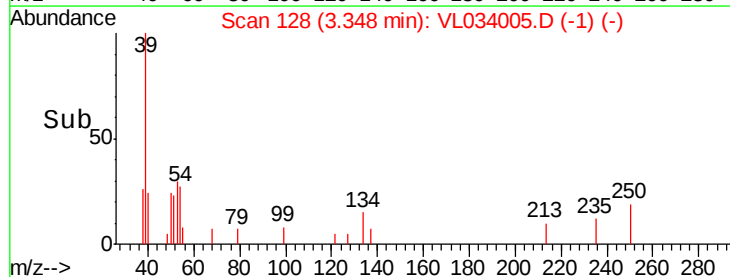
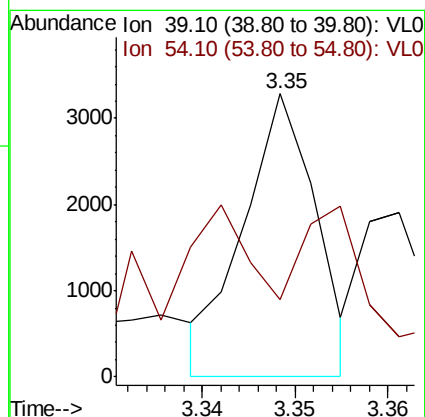
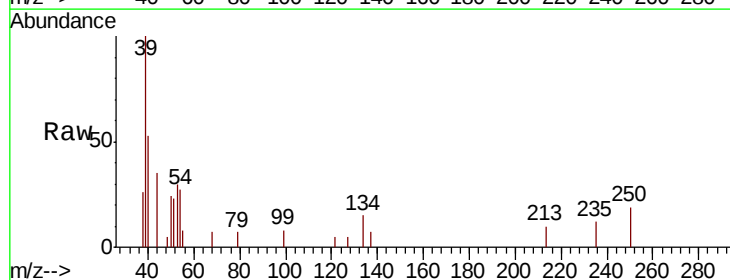
Acq: 3 Jul 2019 4:24

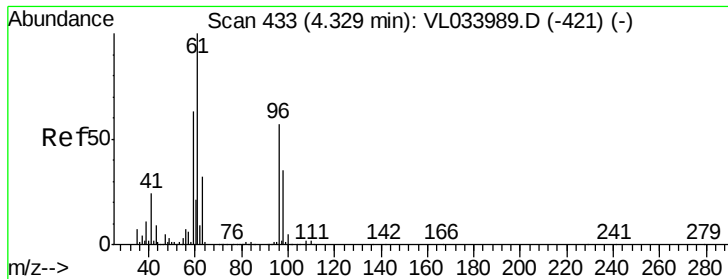
Tgt Ion: 39 Resp: 1775

Ion Ratio Lower Upper

39 100

54 158.3 71.4 107.2#

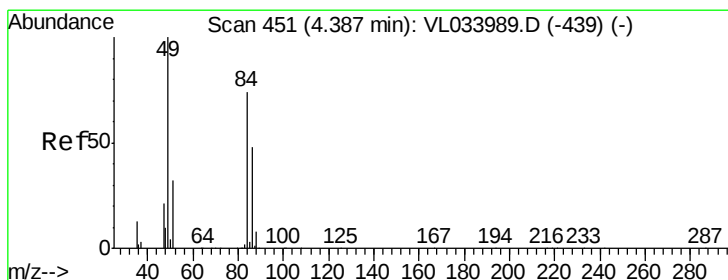
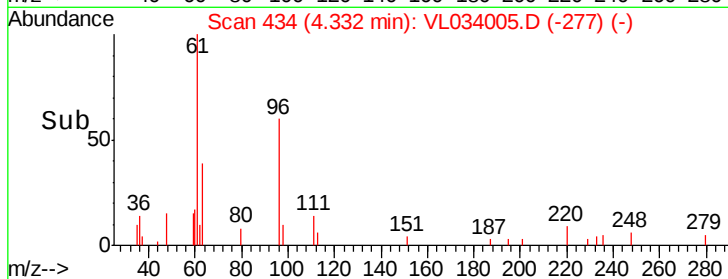
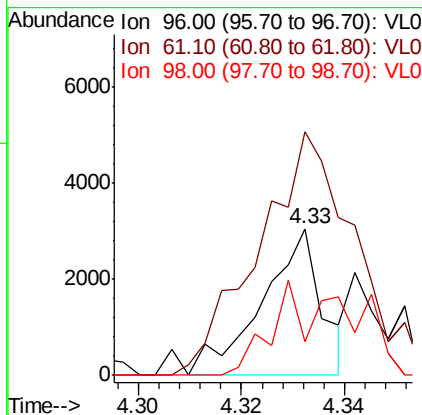
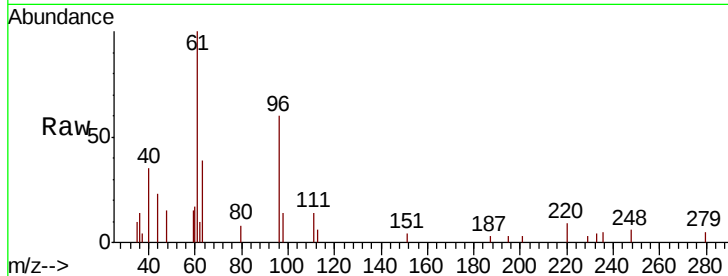




#18
 1,1-Dichloroethene
 Concen: 0.037 ppbv
 RT: 4.33 min Scan# 434
 Delta R.T. 0.00 min
 Lab File: VL034005.D
 Acq: 3 Jul 2019 4:24

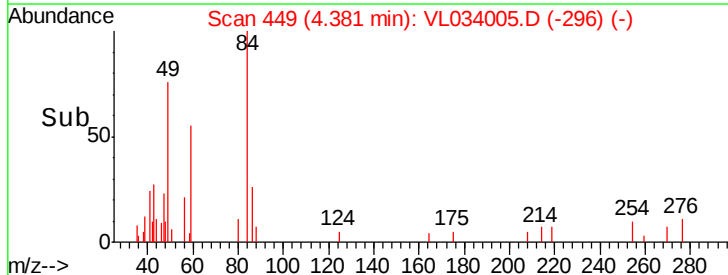
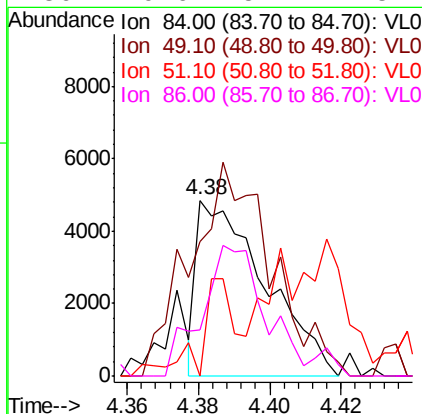
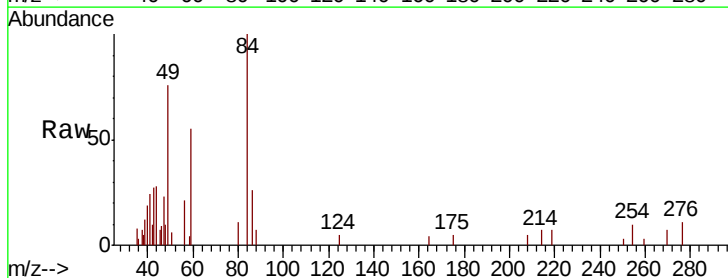
Instrument :
 MSVOA_L
 ClientSampled :

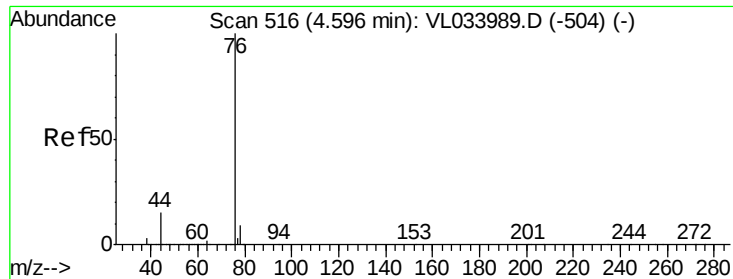
Tot Ion: 96 Resp: 2424
 Ion Ratio Lower Upper
 96 100
 61 159.5 139.4 209.0
 98 23.1 49.4 74.0#



#20
 Methylene Chloride
 Concen: 0.097 ppbv
 RT: 4.38 min Scan# 449
 Delta R.T. -0.01 min
 Lab File: VL034005.D
 Acq: 3 Jul 2019 4:24

Tgt Ion: 84 Resp: 6417
 Ion Ratio Lower Upper
 84 100
 49 68.5 107.6 161.4#
 51 0.0 35.0 52.6#
 86 19.6 52.1 78.1#





#27

Carbon Disulfide

Concen: 0.043 ppbv

RT: 4.60 min Scan# 517

Delta R.T. 0.00 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

Instrument :

MSVOA_L

ClientSampleId :

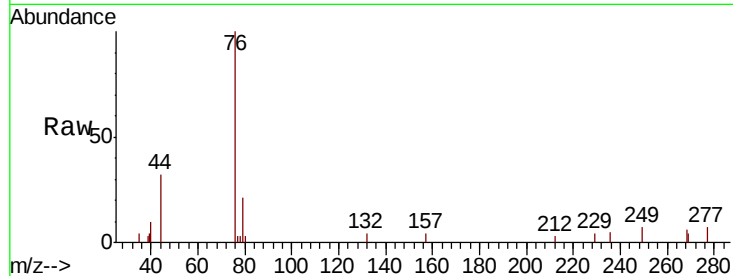
Tot Ion: 76 Resp: 6888

Ion Ratio Lower Upper

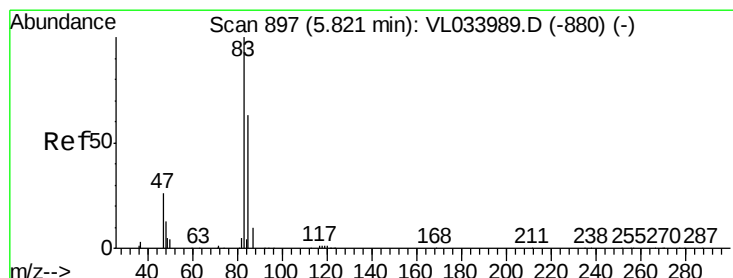
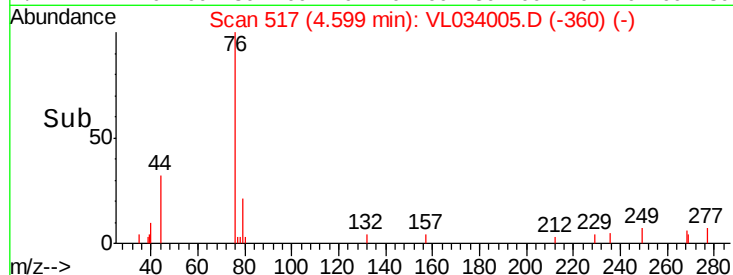
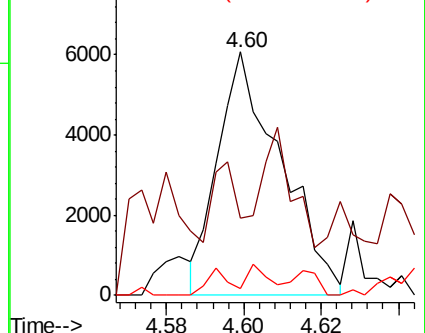
76 100

44 54.8 12.6 18.8#

78 12.9 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.033 ppbv

RT: 5.82 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034005.D

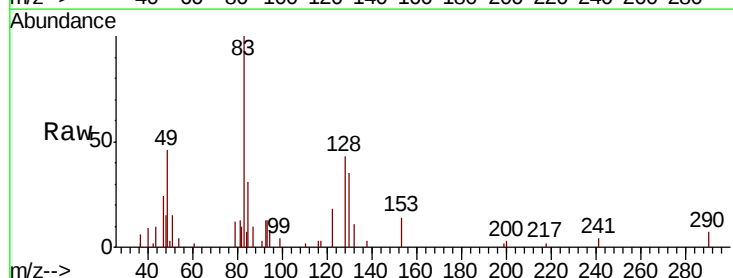
Acq: 3 Jul 2019 4:24

Tgt Ion: 83 Resp: 5901

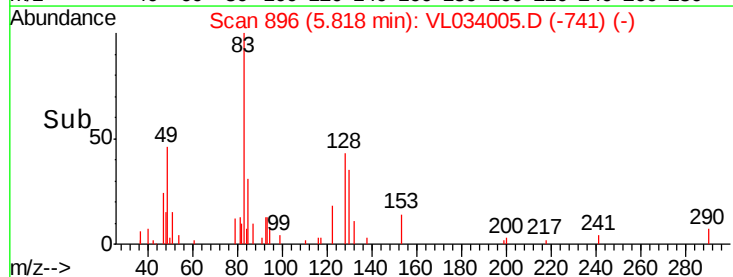
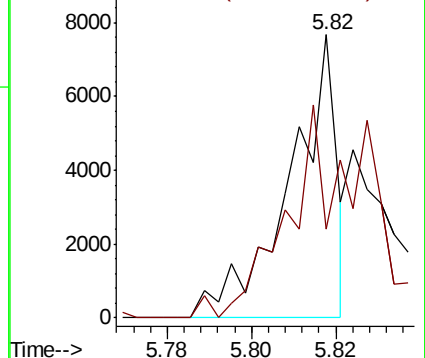
Ion Ratio Lower Upper

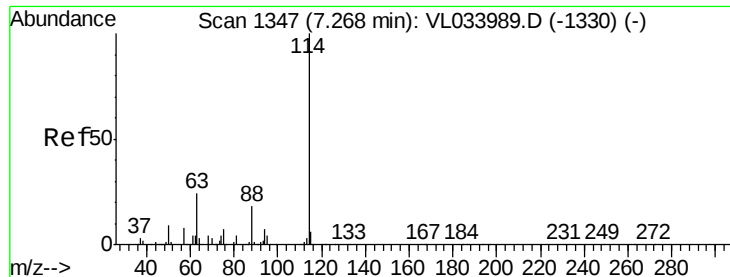
83 100

85 31.3 50.6 75.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



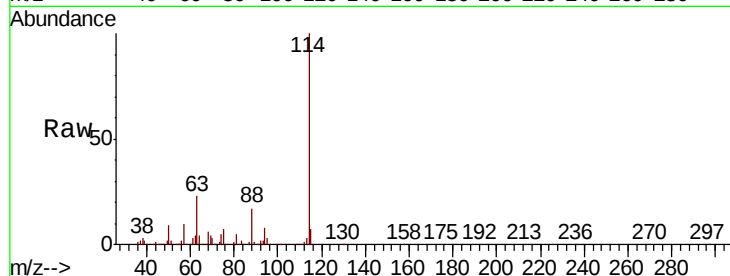


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL034005.D
 Acq: 3 Jul 2019 4:24

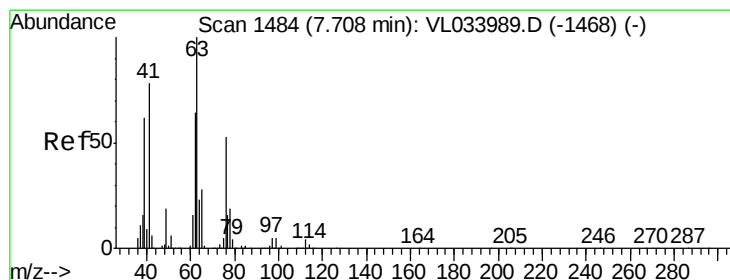
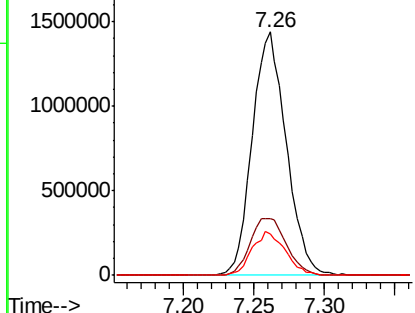
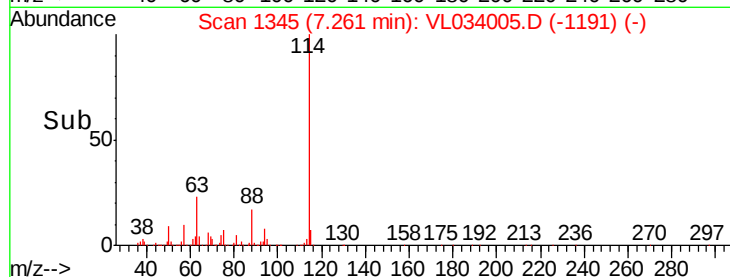
Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2432397

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.7	14.1	21.1



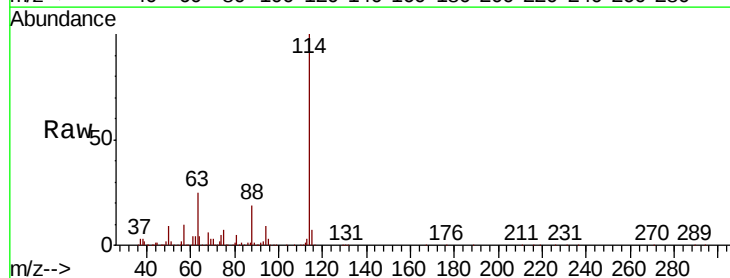
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



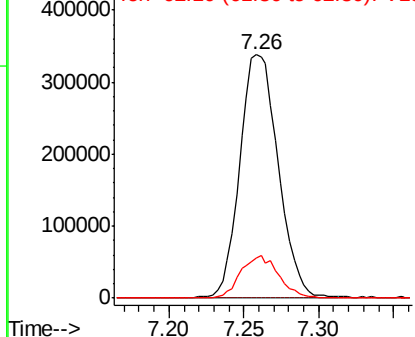
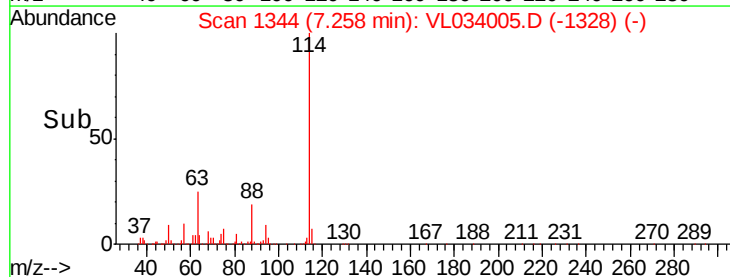
#39
 1,2-Dichloropropane
 Concen: 8.576 ppbv
 RT: 7.26 min Scan# 1344
 Delta R.T. -0.45 min
 Lab File: VL034005.D
 Acq: 3 Jul 2019 4:24

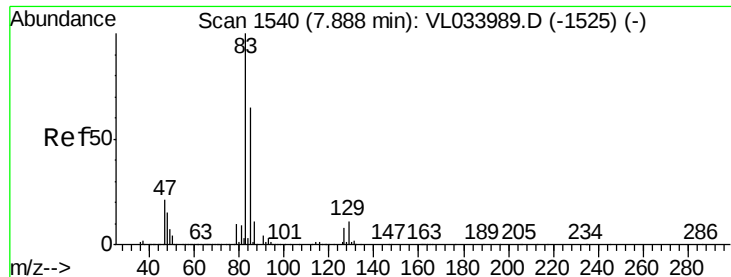
Tgt Ion: 63 Resp: 606932

Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.3	93.5#
62	16.4	51.4	77.2#



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





#42

Bromodichloromethane

Concen: 0.033 ppbv

RT: 7.89 min Scan# 1539

Delta R.T. -0.00 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

Instrument :

MSVOA_L

ClientSampleId :

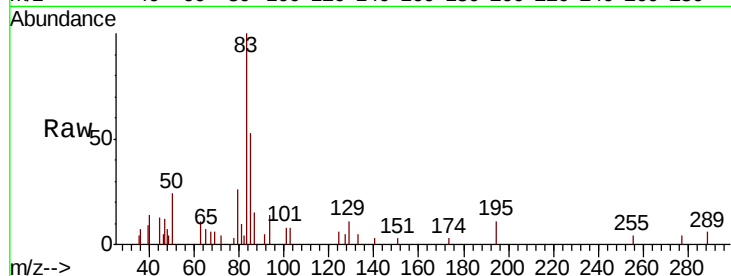
Tot Ion: 83 Resp: 6137

Ion Ratio Lower Upper

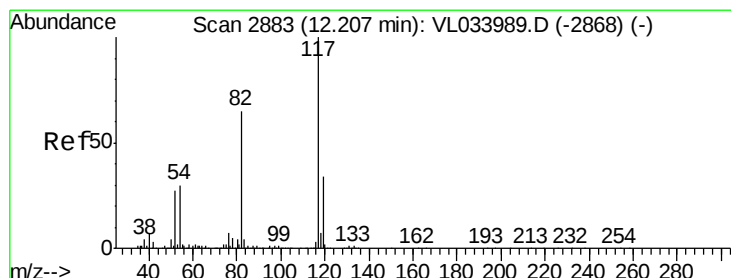
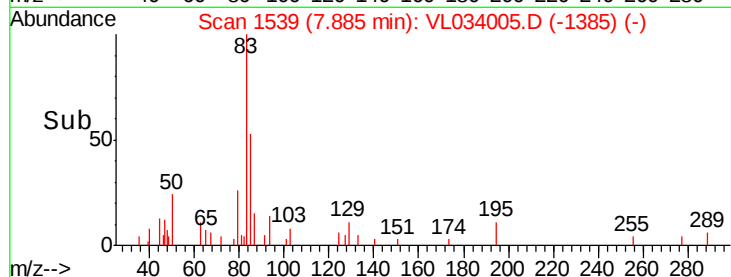
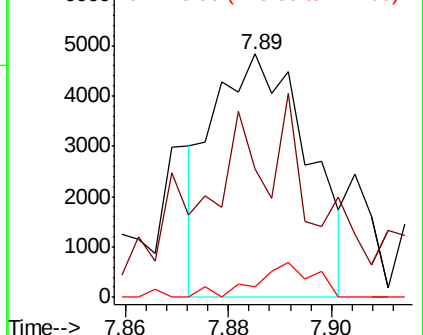
83 100

85 30.0 51.8 77.8#

127 7.2 6.5 9.7



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: 12.20 min Scan# 2882

Delta R.T. -0.00 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

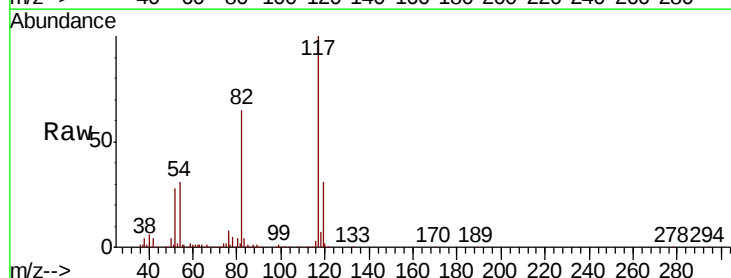
Tgt Ion: 117 Resp: 2426731

Ion Ratio Lower Upper

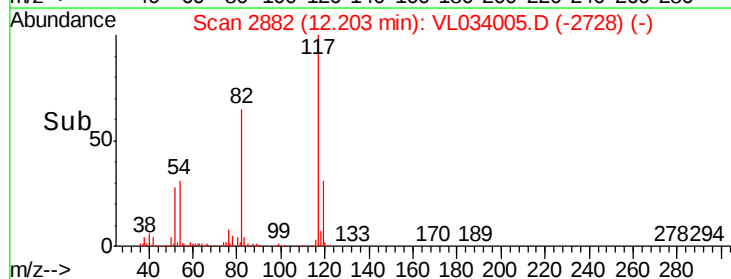
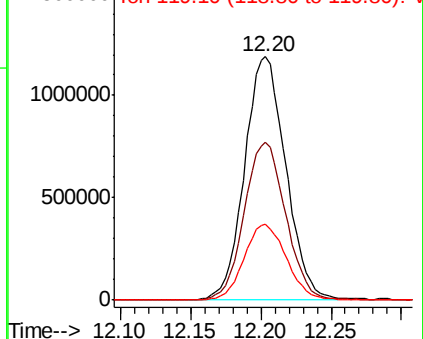
117 100

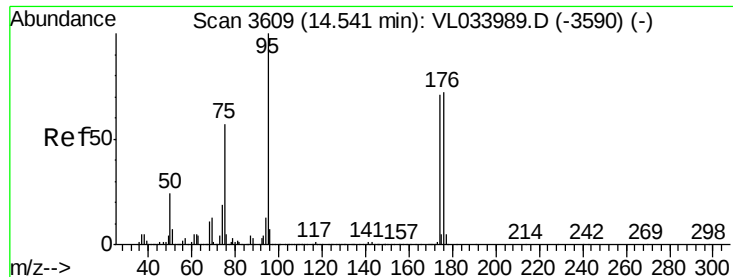
82 65.6 50.8 76.2

119 32.3 24.0 36.0



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: 9.417 ppbv

RT: 14.54 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL034005.D

Acq: 3 Jul 2019 4:24

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 1949108

Ion Ratio Lower Upper

95 100

174 74.4 60.5 90.7

175 5.4 4.0 6.0

