

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034044.D
 Acq On : 17 Jul 2019 23:10
 Operator : SY/AP
 Sample : K3804-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 18 04:41:03 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	5.72	49	983639	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.25	114	3758221	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.19	117	3657543	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2176258	6.98	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	69.80%

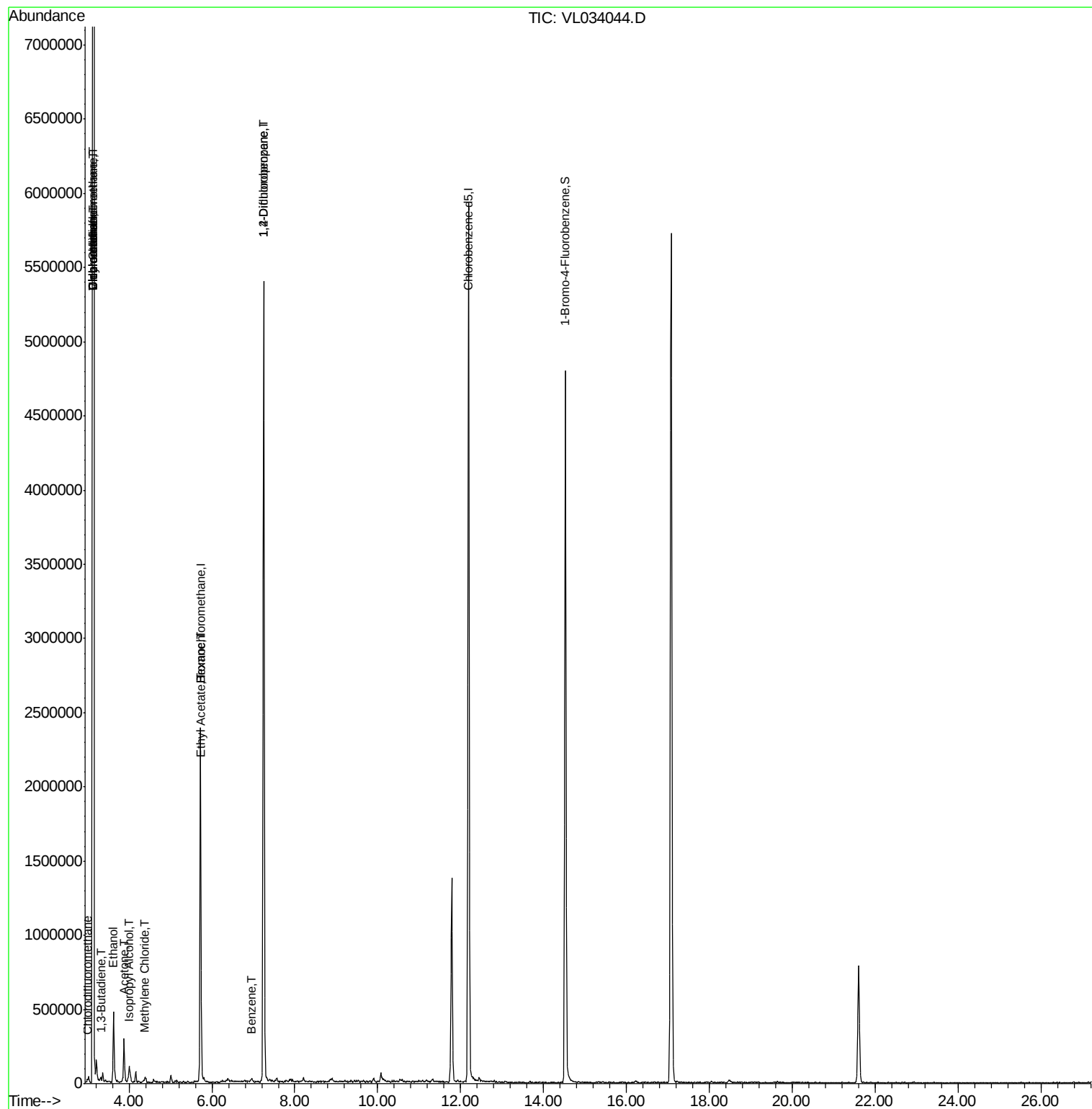
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.13	85	2745168	13.524	ppbv 99
3) Chlorodifluoromethane	2.99	51	20413	0.168	ppbv # 86
4) Chloromethane	3.13	50	356316	5.102	ppbv # 43
5) Vinyl Chloride	3.13	62	105738	1.346	ppbv # 1
7) Chloroethane	3.13	64	1851688	65.969	ppbv 99
8) Dichlorotetrafluoroethane	3.13	85	2745168	13.871	ppbv # 15
13) Ethanol	3.62	45	496085	35.738	ppbv 93
15) Acetone	3.88	43	276590	1.672	ppbv 98
16) 1,3-Butadiene	3.32	39	1955	0.033	ppbv # 5
19) Isopropyl Alcohol	4.00	45	115773	1.043	ppbv # 92
20) Methylene Chloride	4.37	84	4820	0.067	ppbv # 55
25) Ethyl Acetate	5.74	43	15415	0.068	ppbv # 77
26) Hexane	5.73	57	5390	0.052	ppbv # 1
36) Benzene	6.96	78	9687	0.033	ppbv # 58
39) 1,2-Dichloropropane	7.25	63	963508	8.811	ppbv # 24

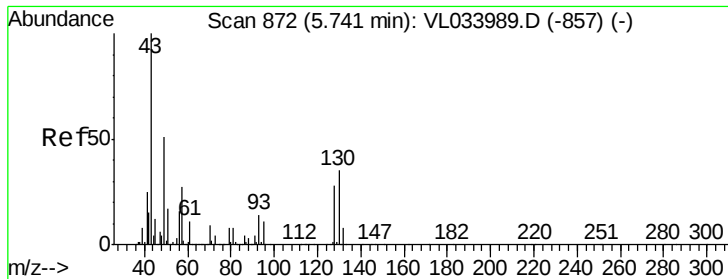
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.02 min

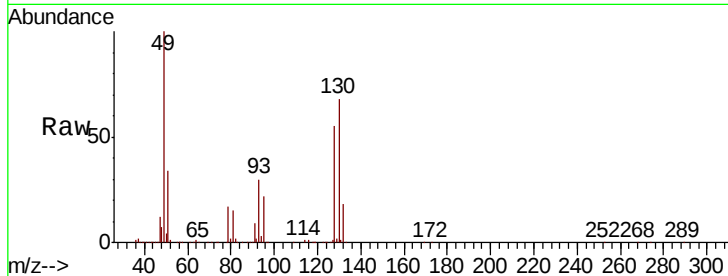
Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 983639

Ion	Ratio	Lower	Upper
49	100		
128	56.4	27.9	83.6
130	72.4	35.8	107.4

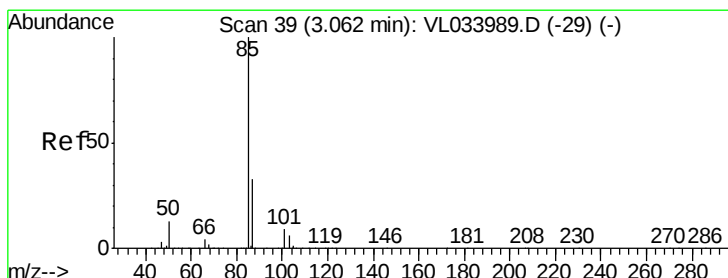
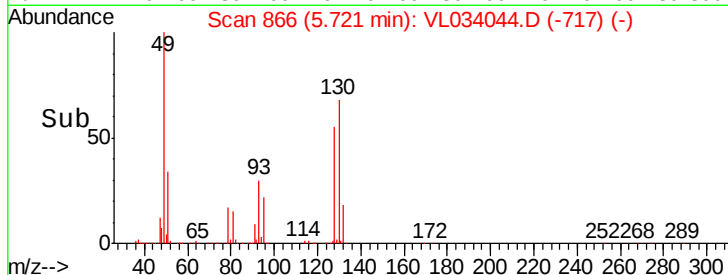
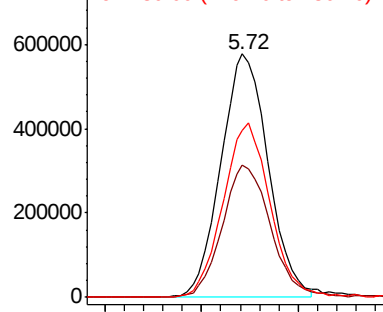


Abundance

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: 13.524 ppbv

RT: 3.13 min Scan# 61

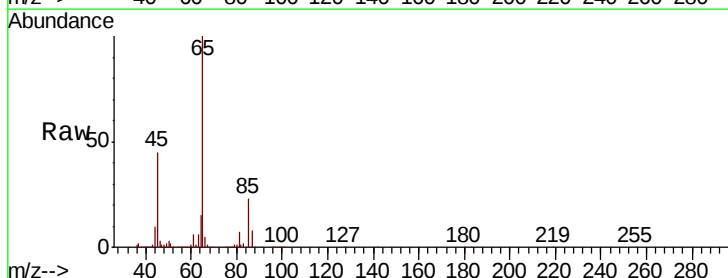
Delta R.T. 0.07 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Tgt Ion: 85 Resp: 2745168

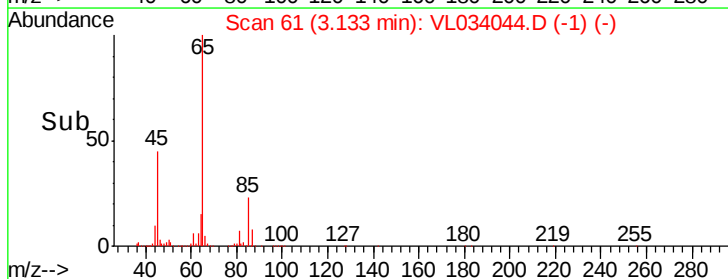
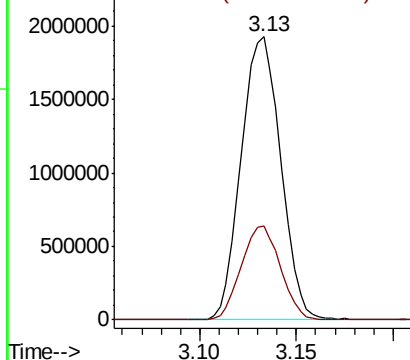
Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.0	39.0

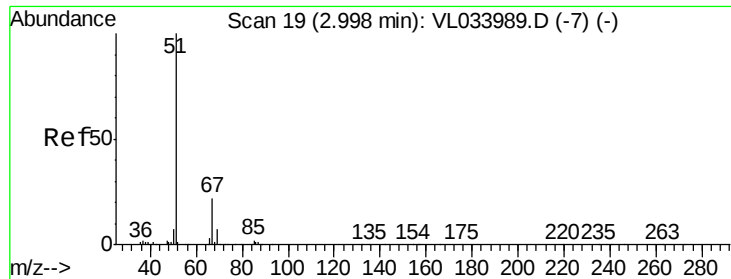


Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

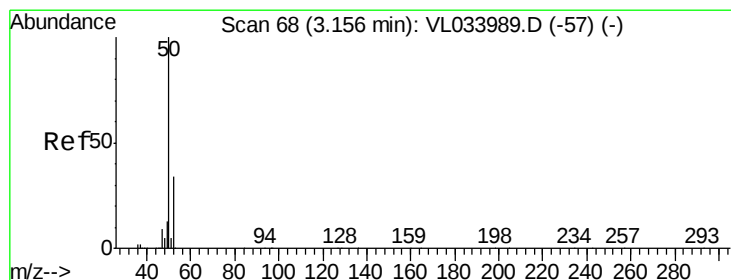
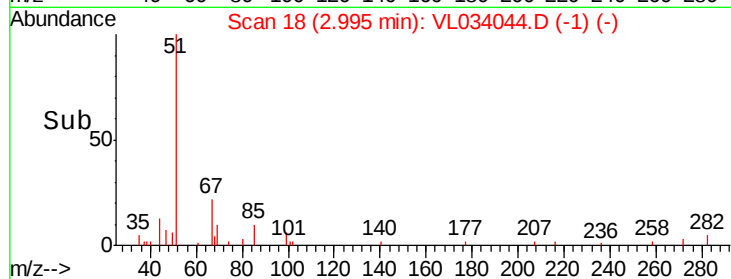
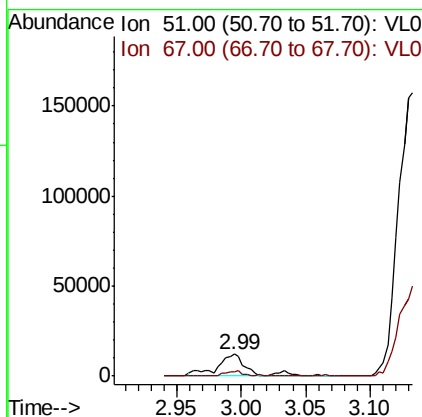
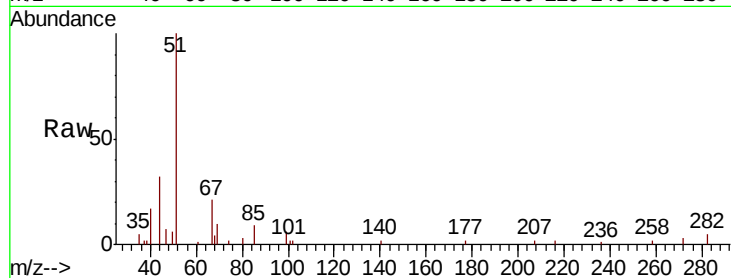




#3
 Chlorodifluoromethane
 Concen: 0.168 ppbv
 RT: 2.99 min Scan# 18
 Delta R.T. -0.00 min
 Lab File: VL034044.D
 Acq: 17 Jul 2019 23:10

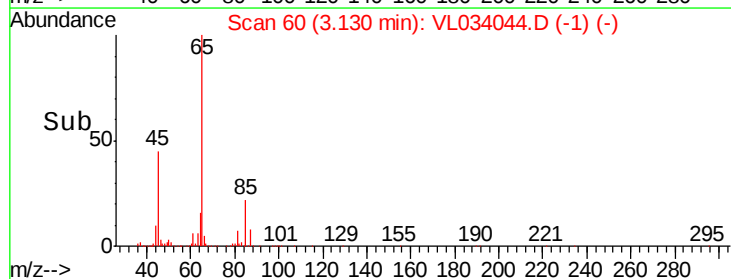
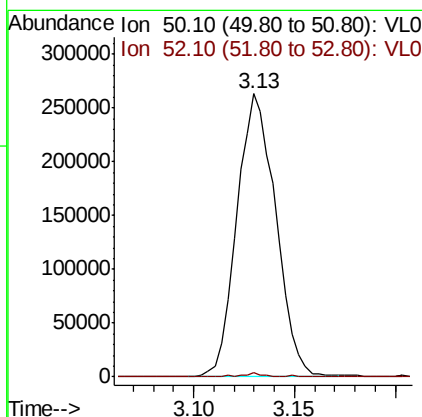
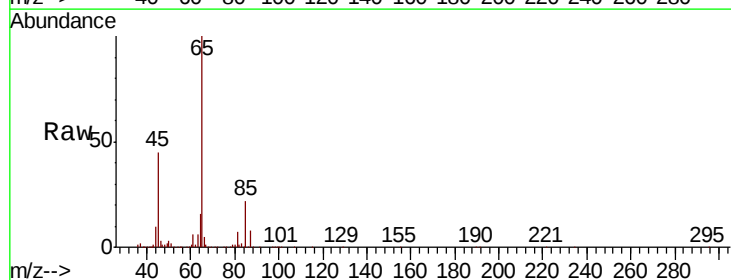
Instrument :
 MSVOA_L
 ClientSampleId :

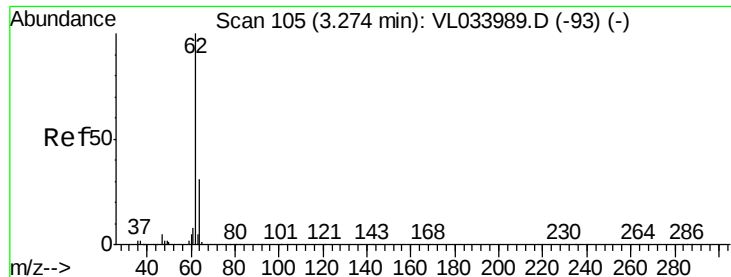
Tot Ion: 51 Resp: 20413
 Ion Ratio Lower Upper
 51 100
 67 14.8 17.3 25.9#



#4
 Chloromethane
 Concen: 5.102 ppbv
 RT: 3.13 min Scan# 60
 Delta R.T. -0.03 min
 Lab File: VL034044.D
 Acq: 17 Jul 2019 23:10

Tgt Ion: 50 Resp: 356316
 Ion Ratio Lower Upper
 50 100
 52 1.4 27.4 41.0#





#5

Vinyl Chloride

Concen: 1.346 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.14 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Instrument :

MSVOA_L

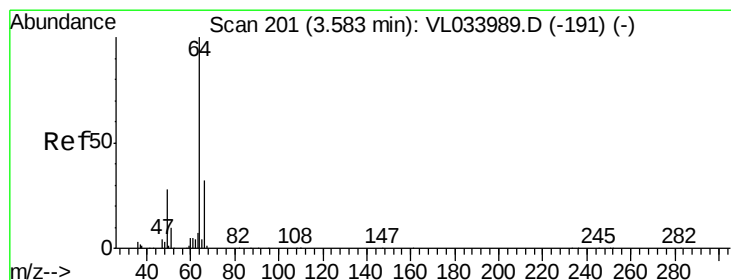
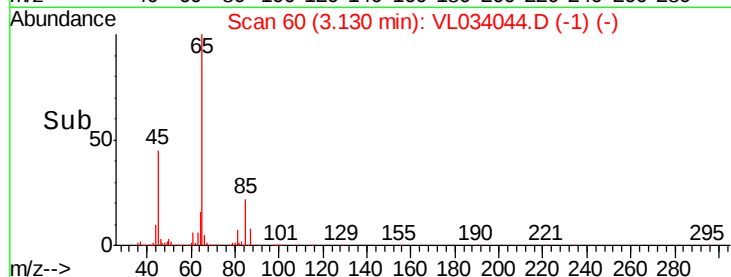
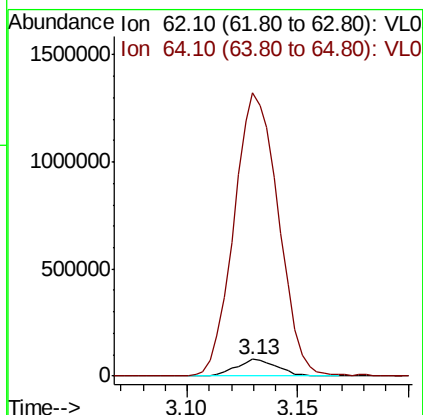
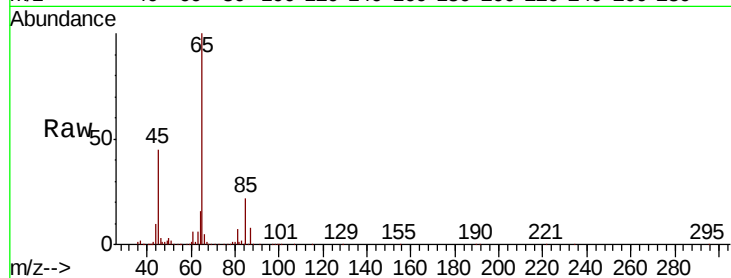
ClientSampled :

Tot Ion: 62 Resp: 105738

Ion Ratio Lower Upper

62 100

64 1661.3 24.4 36.6#



#7

Chloroethane

Concen: 65.969 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.45 min

Lab File: VL034044.D

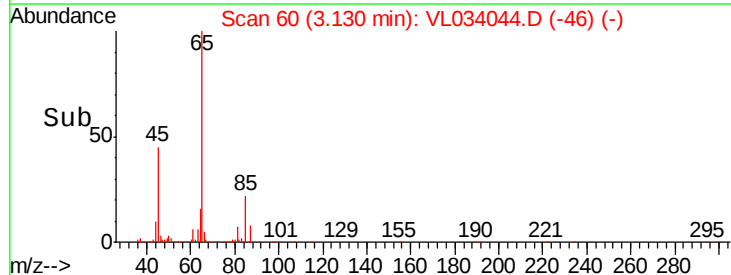
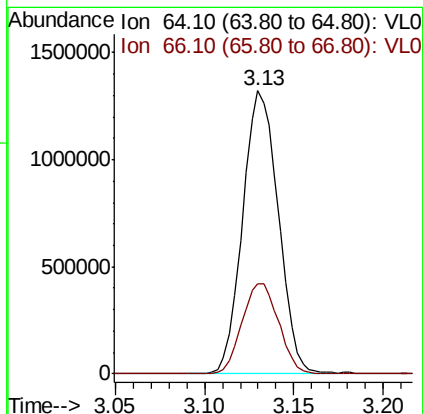
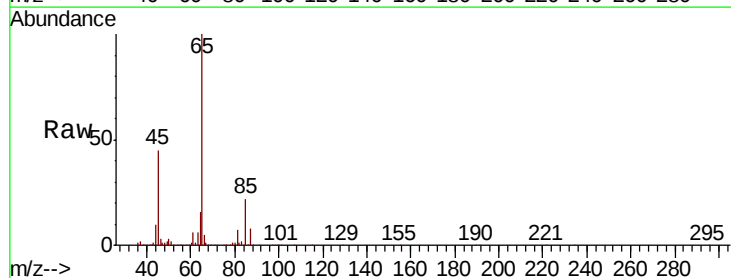
Acq: 17 Jul 2019 23:10

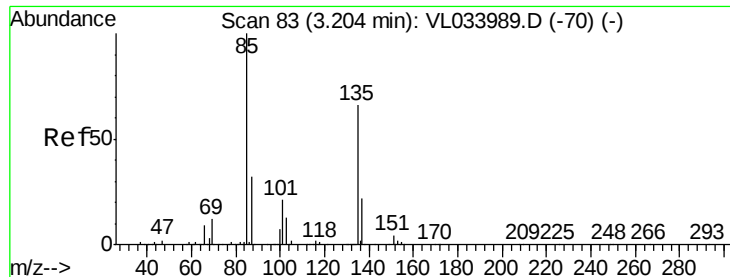
Tgt Ion: 64 Resp: 1851688

Ion Ratio Lower Upper

64 100

66 32.0 25.3 37.9





#8

Dichlorotetrafluoroethane

Concen: 13.871 ppbv

RT: 3.13 min Scan# 61

Delta R.T. -0.07 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Instrument :

MSVOA_L

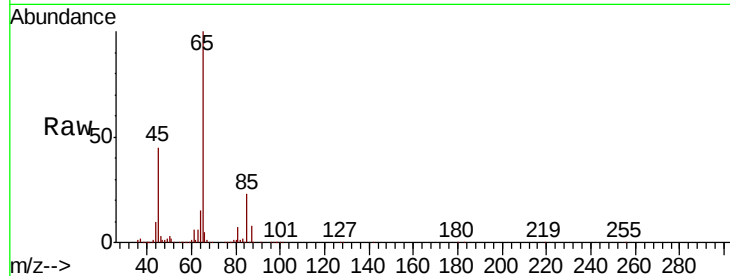
ClientSampleId :

Tot Ion: 85 Resp: 2745168

Ion Ratio Lower Upper

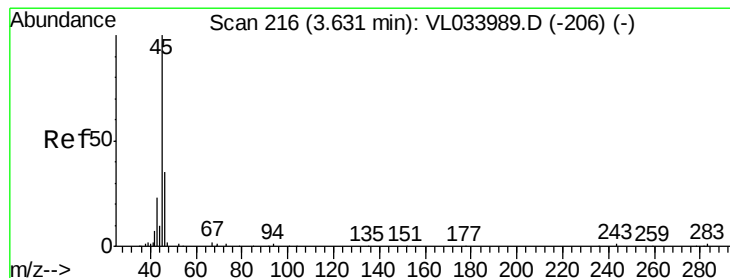
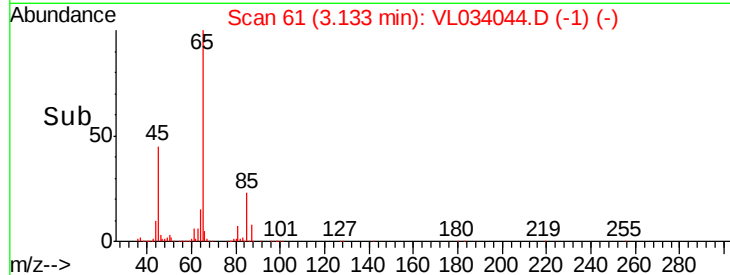
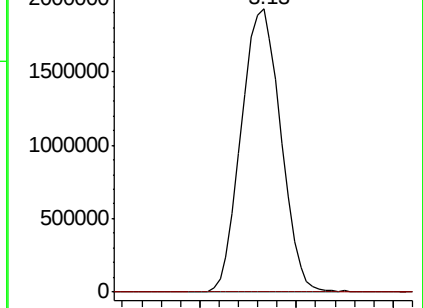
85 100

135 0.0 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#13

Ethanol

Concen: 35.738 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL034044.D

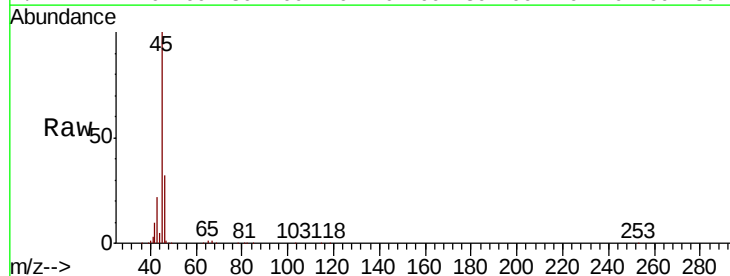
Acq: 17 Jul 2019 23:10

Tgt Ion: 45 Resp: 496085

Ion Ratio Lower Upper

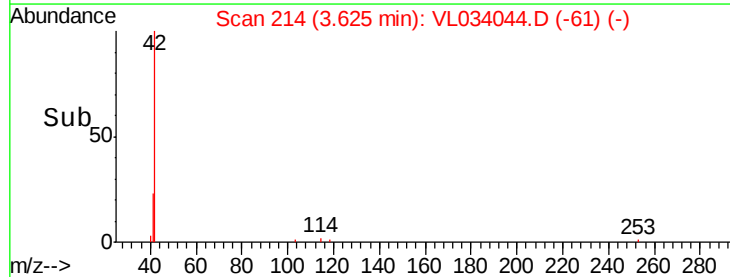
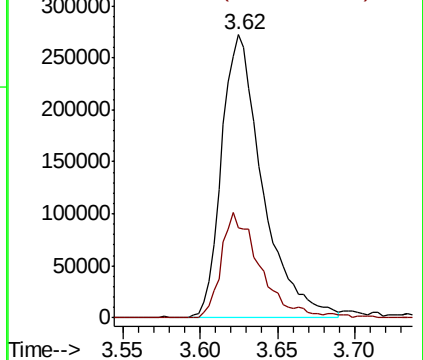
45 100

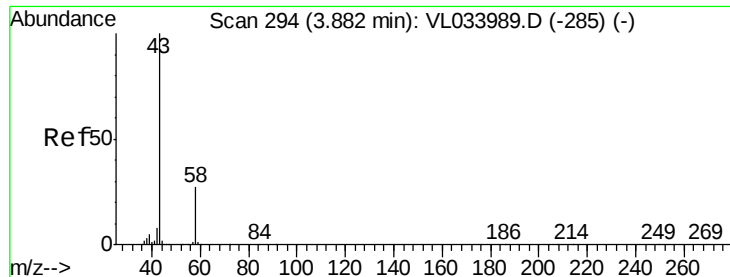
46 36.1 16.2 64.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.672 ppbv

RT: 3.88 min Scan# 293

Delta R.T. -0.00 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Instrument :

MSVOA_L

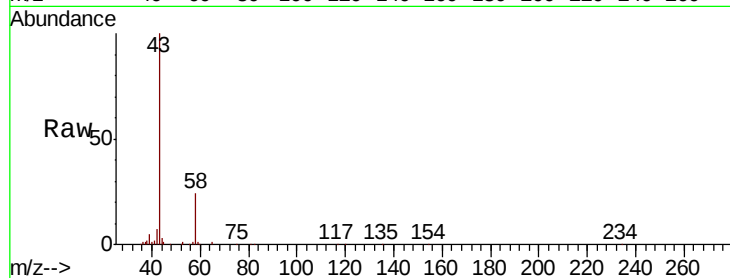
ClientSampleId :

Tot Ion: 43 Resp: 276590

Ion Ratio Lower Upper

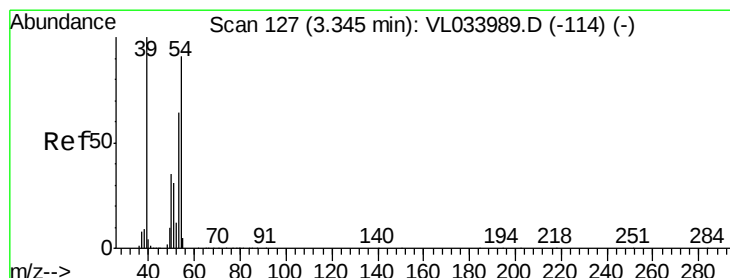
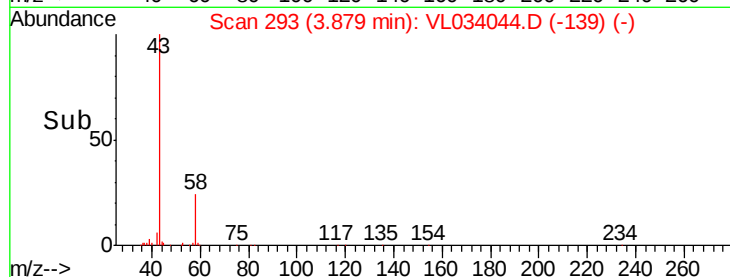
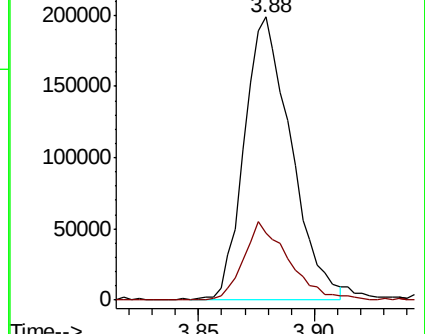
43 100

58 27.5 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 3.32 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL034044.D

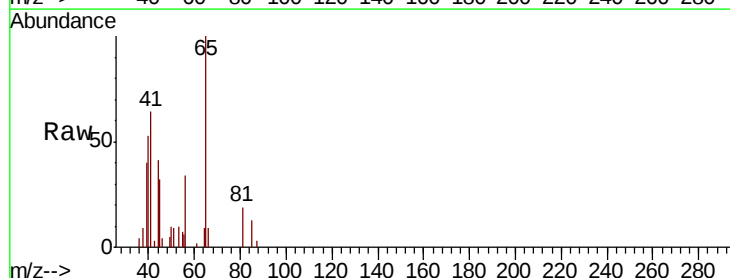
Acq: 17 Jul 2019 23:10

Tgt Ion: 39 Resp: 1955

Ion Ratio Lower Upper

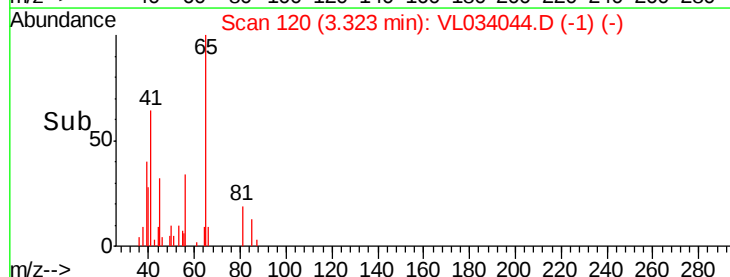
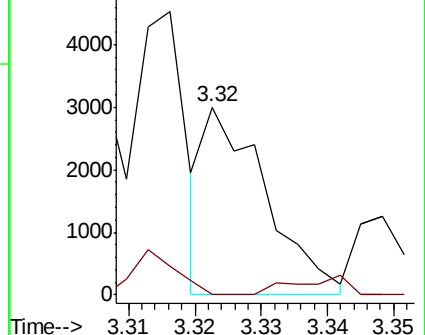
39 100

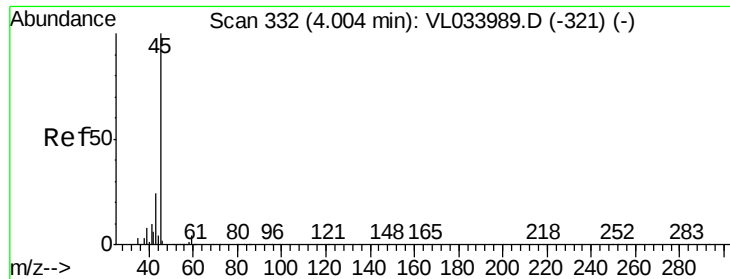
54 0.0 71.4 107.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 1.043 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Instrument :

MSVOA_L

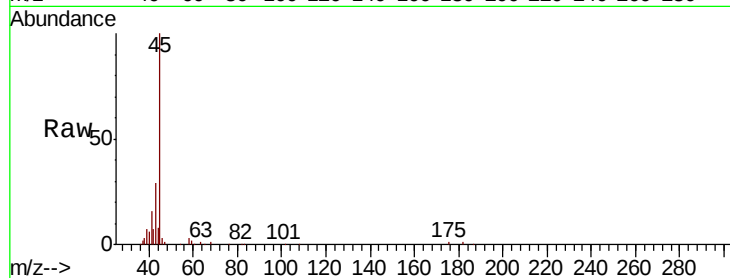
ClientSampleId :

Tot Ion: 45 Resp: 115773

Ion Ratio Lower Upper

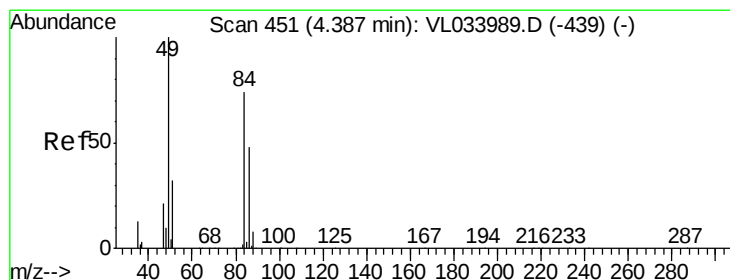
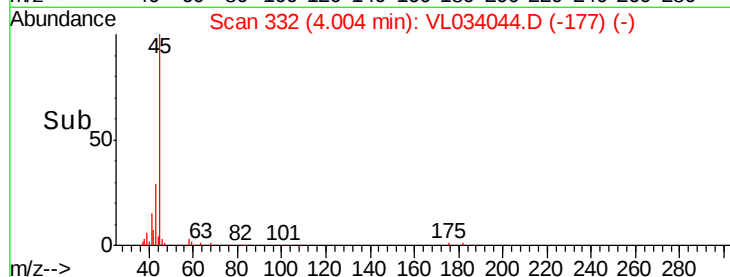
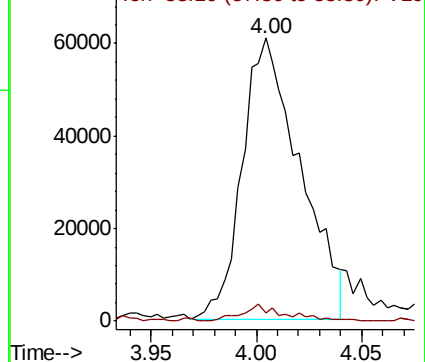
45 100

58 4.8 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.067 ppbv

RT: 4.37 min Scan# 447

Delta R.T. -0.01 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Tgt Ion: 84 Resp: 4820

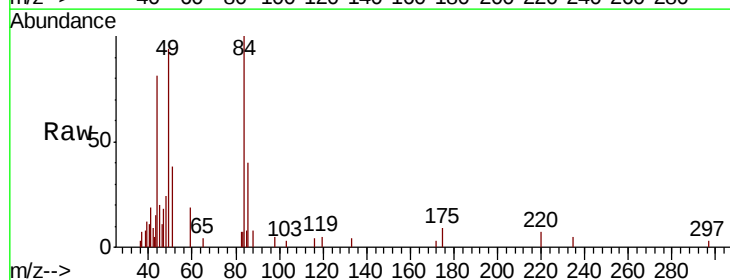
Ion Ratio Lower Upper

84 100

49 63.1 107.6 161.4#

51 36.6 35.0 52.6

86 35.1 52.1 78.1#

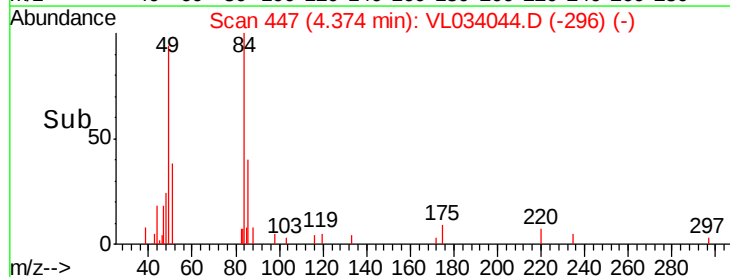
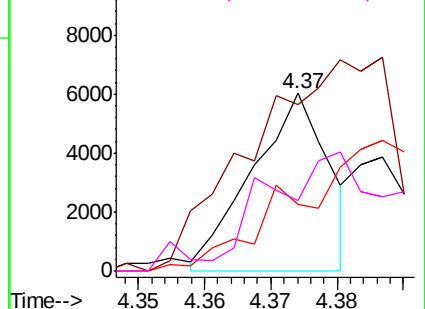


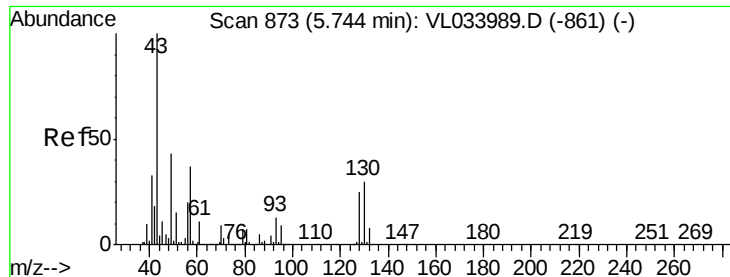
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

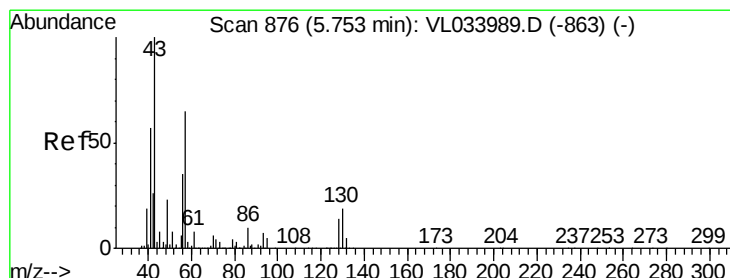
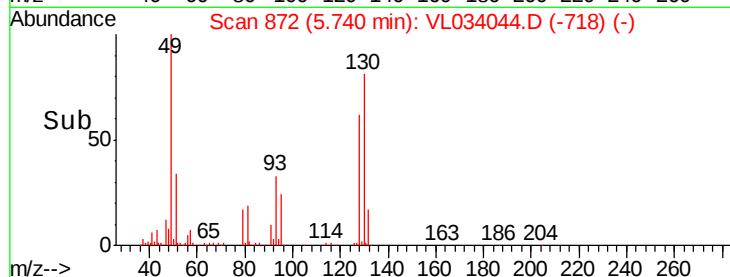
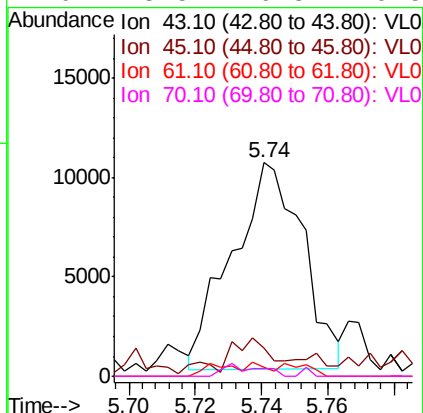
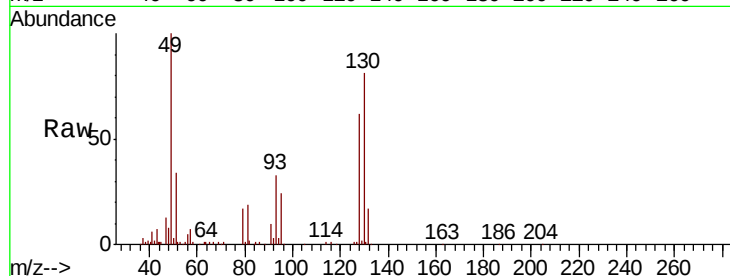




#25
Ethyl Acetate
Concen: 0.068 ppbv
RT: 5.74 min Scan# 872
Delta R.T. -0.00 min
Lab File: VL034044.D
Acq: 17 Jul 2019 23:10

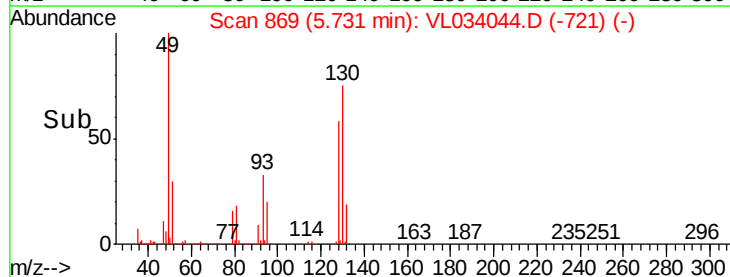
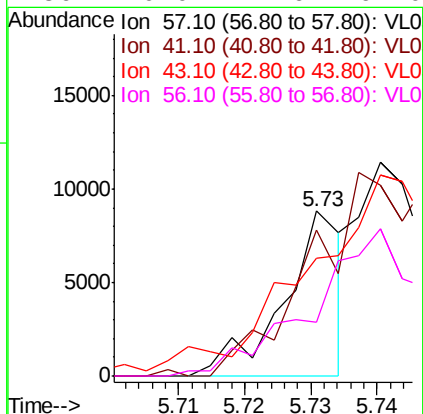
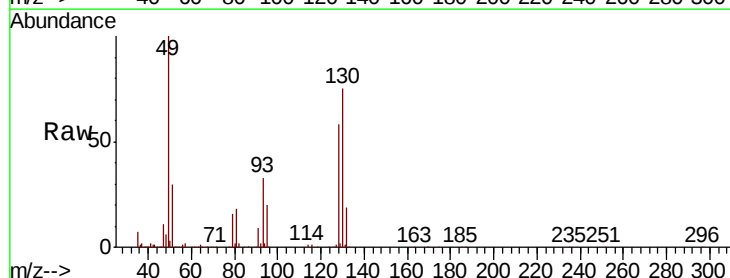
Instrument :
MSVOA_L
ClientSampleId :

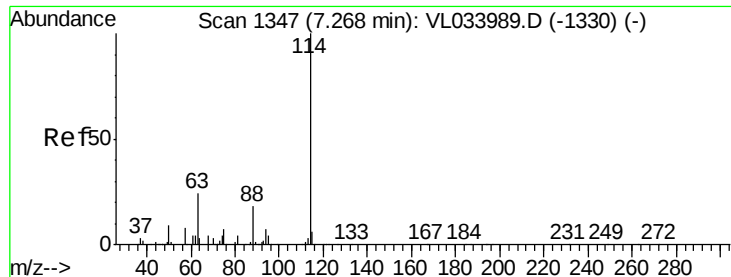
Tot Ion:	43	Resp:	15415
Ion	Ratio	Lower	Upper
43	100		
45	27.1	8.1	12.1#
61	6.8	8.1	12.1#
70	3.5	6.3	9.5#



#26
Hexane
Concen: 0.052 ppbv
RT: 5.73 min Scan# 869
Delta R.T. -0.02 min
Lab File: VL034044.D
Acq: 17 Jul 2019 23:10

Tgt Ion:	57	Resp:	5390
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.6	105.8#
43	0.0	177.6	266.4#
56	0.0	42.6	64.0#

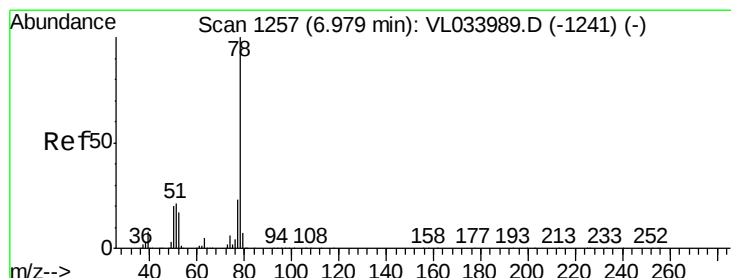
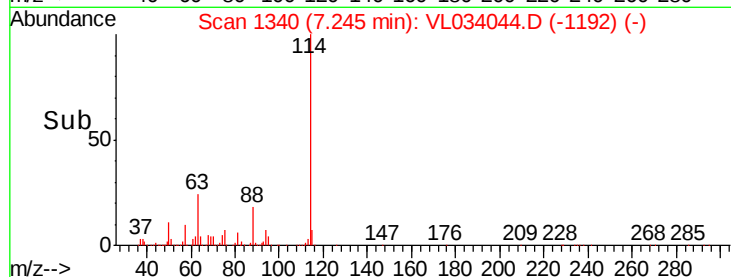
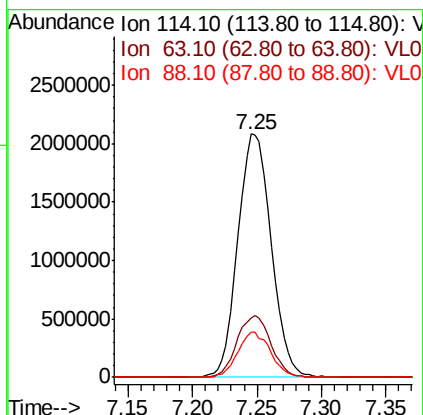
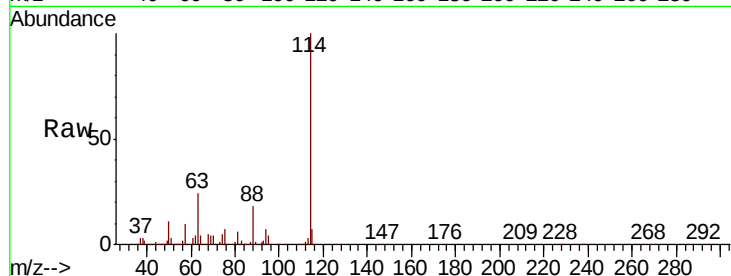




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1340
 Delta R.T. -0.02 min
 Lab File: VL034044.D
 Acq: 17 Jul 2019 23:10

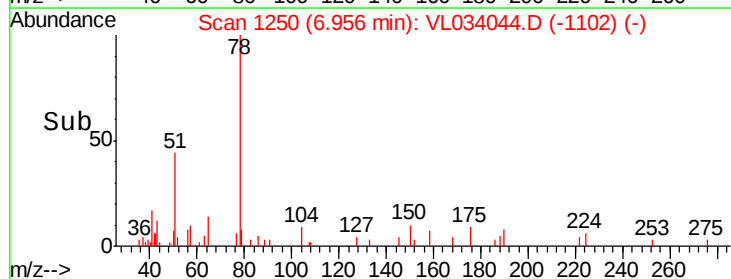
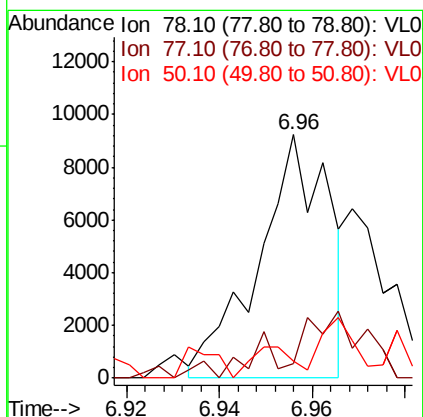
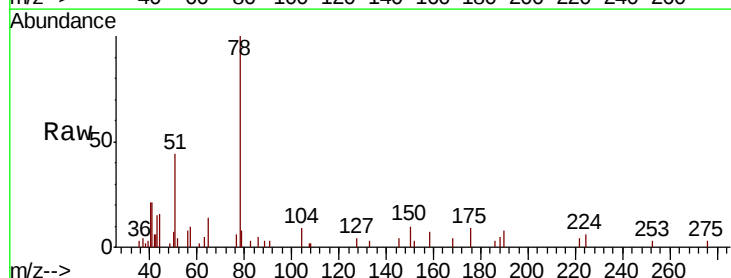
Instrument :
 MSVOA_L
 ClientSampleId :

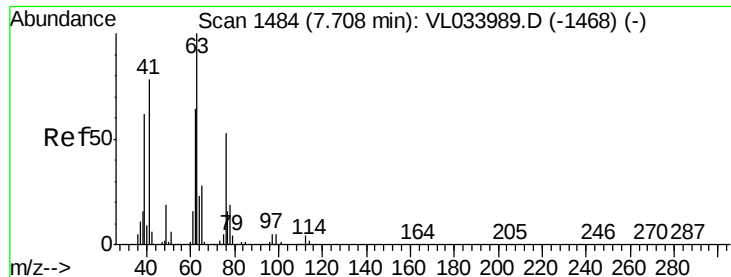
Tot Ion:114 Resp: 3758221
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.2 30.2
 88 18.3 14.1 21.1



#36
 Benzene
 Concen: 0.033 ppbv
 RT: 6.96 min Scan# 1250
 Delta R.T. -0.02 min
 Lab File: VL034044.D
 Acq: 17 Jul 2019 23:10

Tgt Ion: 78 Resp: 9687
 Ion Ratio Lower Upper
 78 100
 77 3.0 18.7 28.1#
 50 40.1 16.2 24.2#

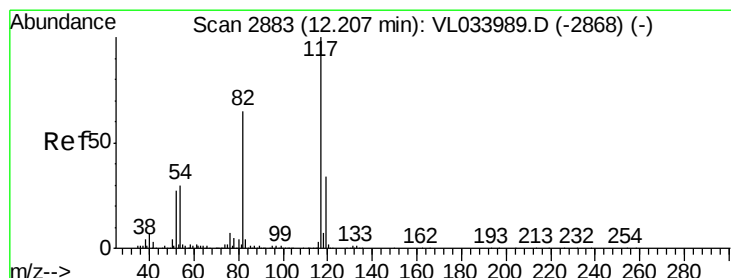
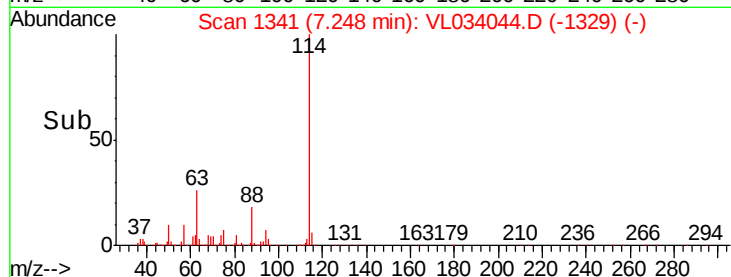
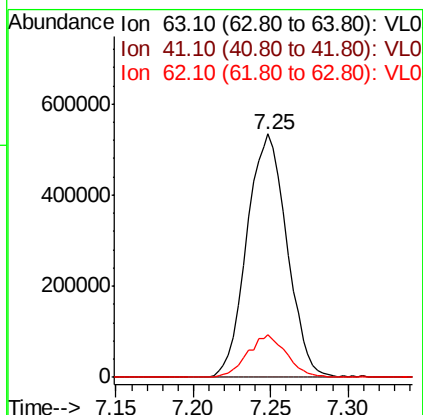
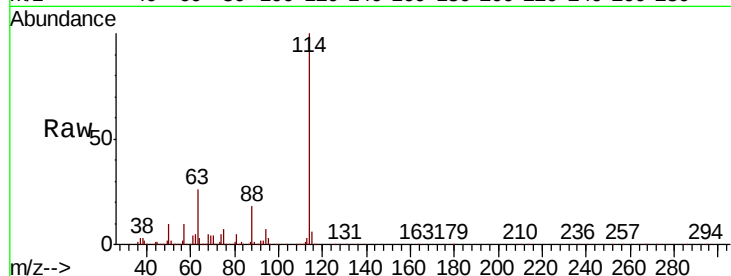




#39
 1,2-Dichloropropane
 Concen: 8.811 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.46 min
 Lab File: VL034044.D
 Acq: 17 Jul 2019 23:10

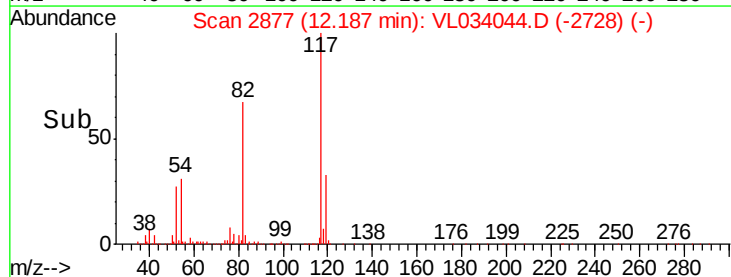
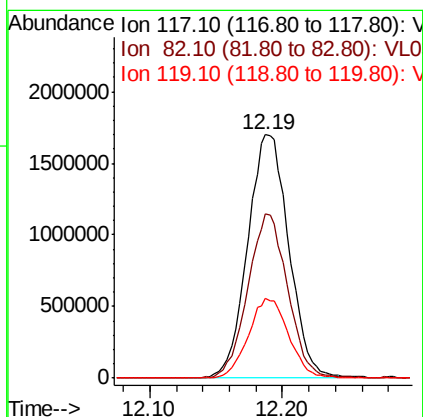
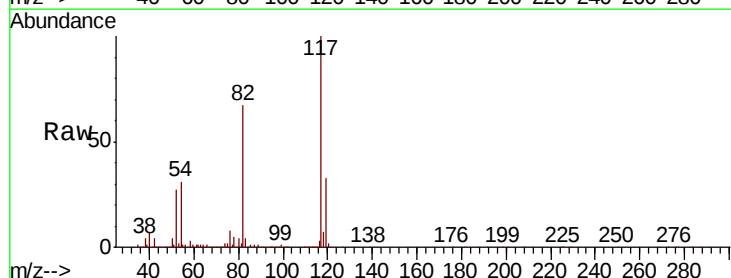
Instrument :
 MSVOA_L
 ClientSampleId :

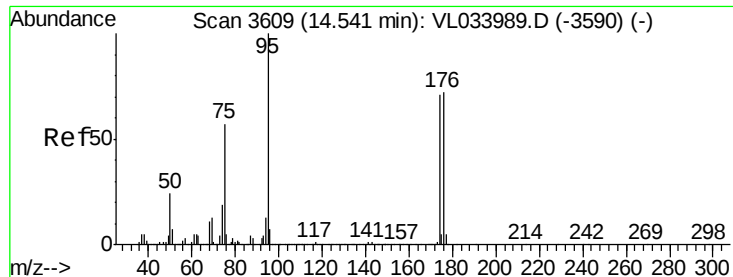
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.3	93.5#
62	17.5	51.4	77.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.19 min Scan# 2877
 Delta R.T. -0.02 min
 Lab File: VL034044.D
 Acq: 17 Jul 2019 23:10

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.0	50.8	76.2
119	32.2	24.0	36.0





#68

1-Bromo-4-Fluorobenzene

Concen: 6.976 ppbv

RT: 14.52 min Scan# 3604

Delta R.T. -0.02 min

Lab File: VL034044.D

Acq: 17 Jul 2019 23:10

Instrument :

MSVOA_L

ClientSampleId :

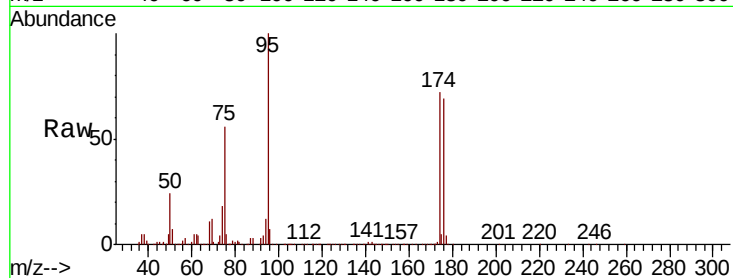
Tot Ion: 95 Resp: 2176258

Ion Ratio Lower Upper

95 100

174 72.2 60.5 90.7

175 5.1 4.0 6.0



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

