

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034406.D
 Acq On : 25 Nov 2019 15:02
 Operator : SY/AP
 Sample : K5971-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 00:43:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	987429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1981256	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1904679	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1606482	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

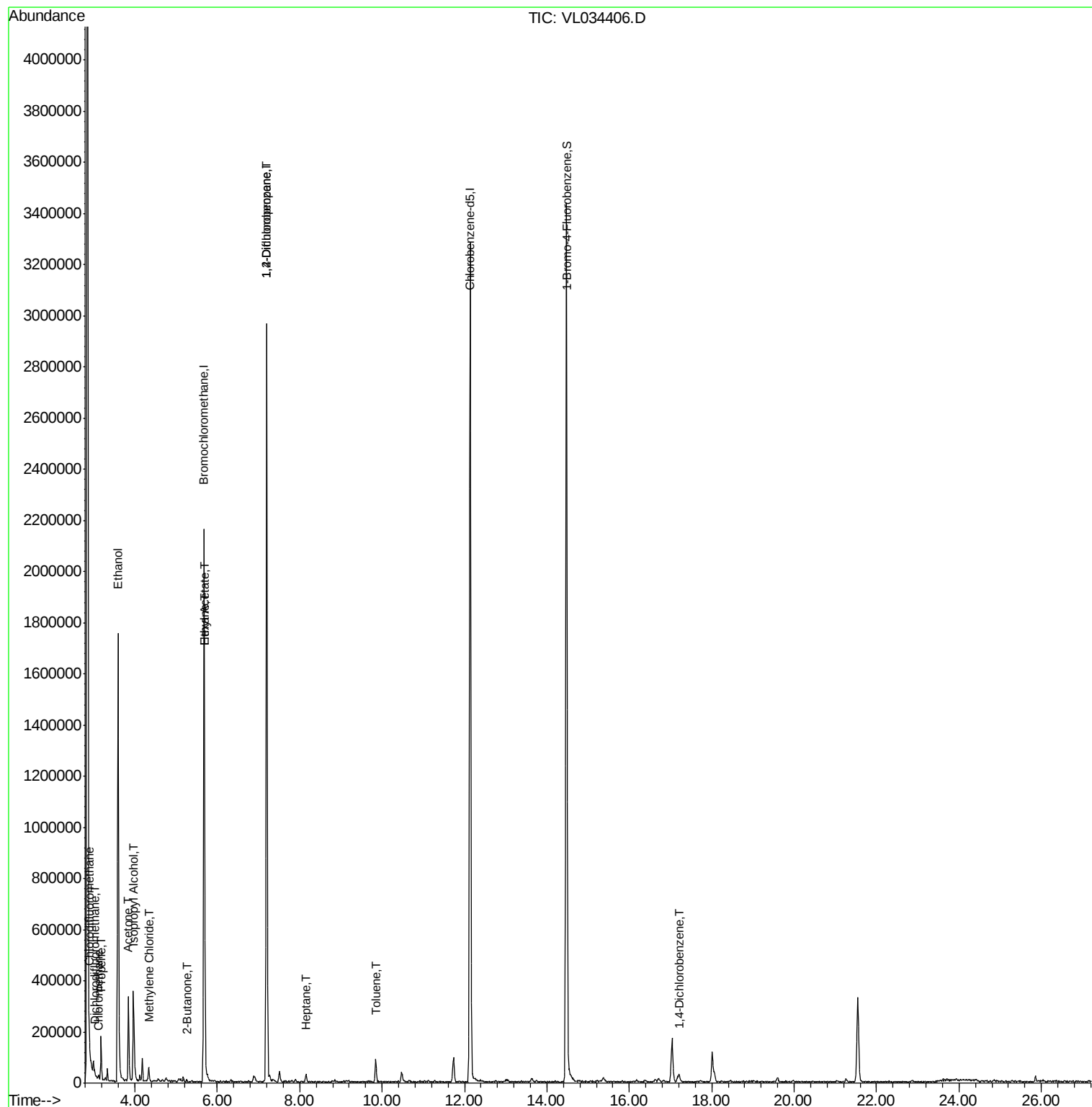
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	13246	0.074	ppbv #	80
3) Chlorodifluoromethane	2.89	51	7352	0.060	ppbv	94
4) Chloromethane	3.11	50	2372	0.033	ppbv #	45
9) Propene	3.18	41	42553	0.778	ppbv	100
10) Heptane	8.15	43	4919	0.035	ppbv #	27
13) Ethanol	3.59	45	1845802	121.144	ppbv	96
15) Acetone	3.84	43	311250	2.201	ppbv	99
19) Isopropyl Alcohol	3.96	45	185586	2.048	ppbv #	92
20) Methylene Chloride	4.34	84	10725	0.214	ppbv #	75
25) Ethyl Acetate	5.70	43	102244	0.405	ppbv #	91
26) Hexane	5.70	57	81839	0.755	ppbv #	60
34) 2-Butanone	5.26	43	10276	0.063	ppbv	95
39) 1,2-Dichloropropane	7.20	63	577171	7.564	ppbv #	24
53) Toluene	9.84	91	58567	0.260	ppbv	96
76) 1,4-Dichlorobenzene	17.21	146	5886	0.035	ppbv #	14

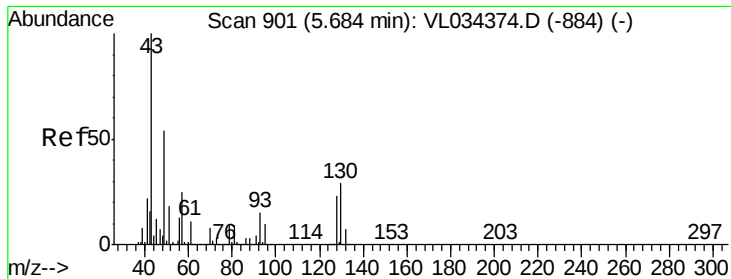
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

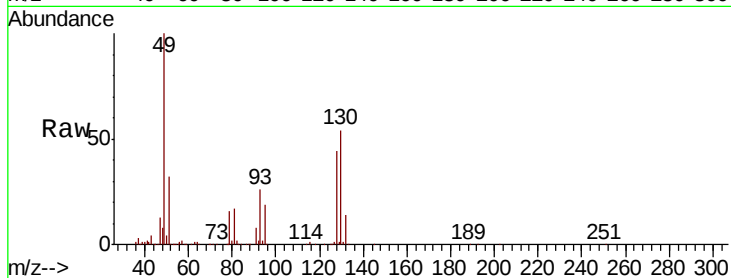
Delta R.T. -0.01 min

Lab File: VL034406.D

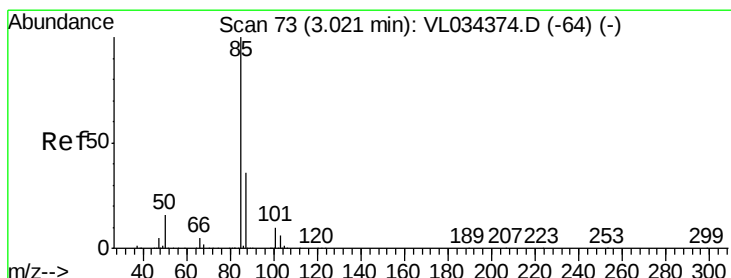
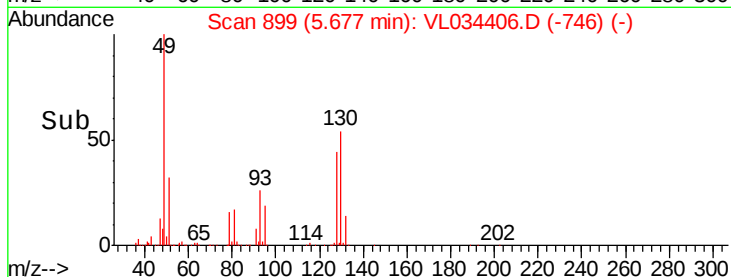
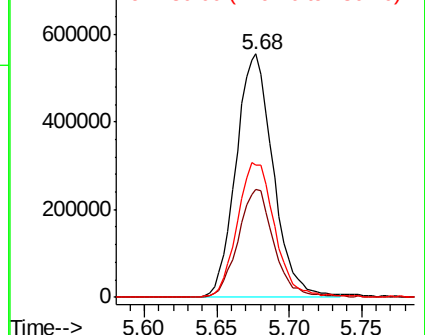
Acq: 25 Nov 2019 15:02

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	49	Resp:	987429
Ion	Ratio	Lower	Upper
49	100		
128	43.2	21.8	65.3
130	56.7	28.0	84.0



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



#2

Dichlorodifluoromethane

Concen: 0.074 ppbv

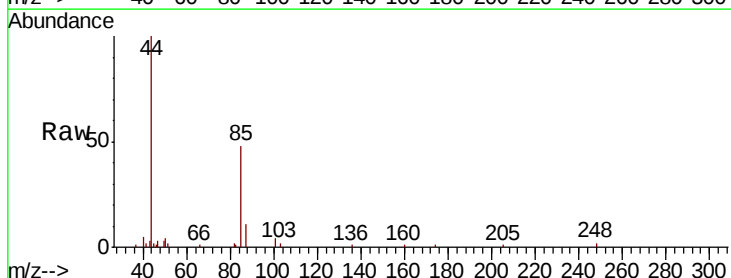
RT: 3.02 min Scan# 74

Delta R.T. 0.00 min

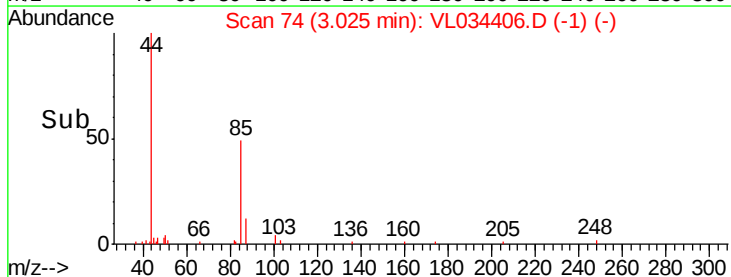
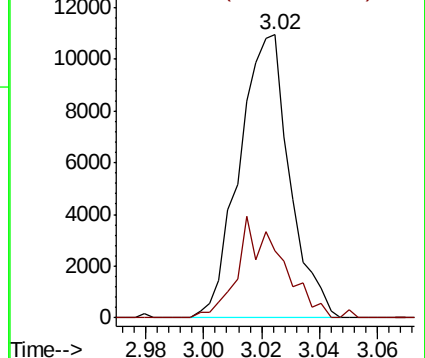
Lab File: VL034406.D

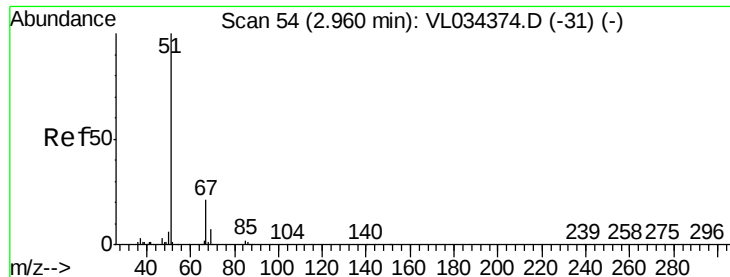
Acq: 25 Nov 2019 15:02

Tgt Ion:	85	Resp:	13246
Ion	Ratio	Lower	Upper
85	100		
87	23.7	28.5	42.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 2.89 min Scan# 32

Delta R.T. -0.07 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

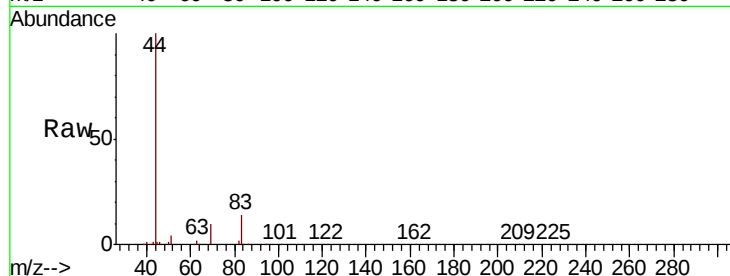
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 7352

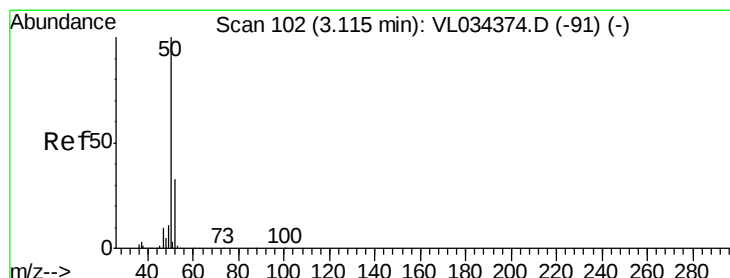
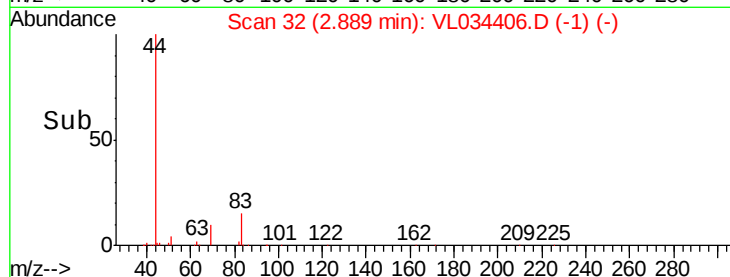
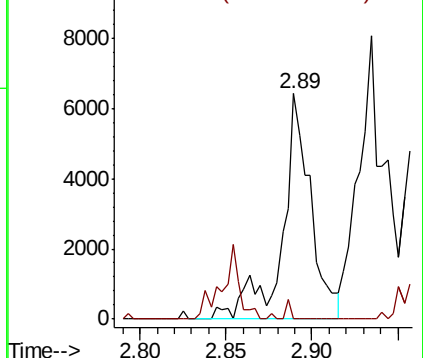
Ion Ratio Lower Upper

51 100

67 23.0 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.01 min

Lab File: VL034406.D

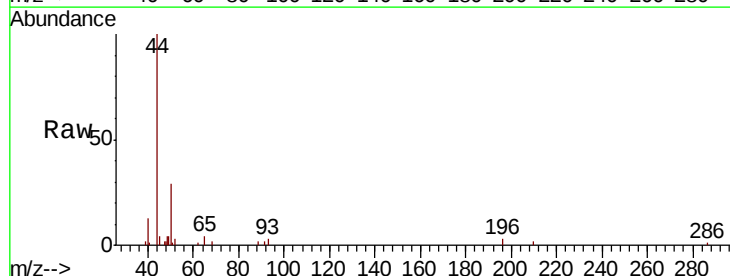
Acq: 25 Nov 2019 15:02

Tgt Ion: 50 Resp: 2372

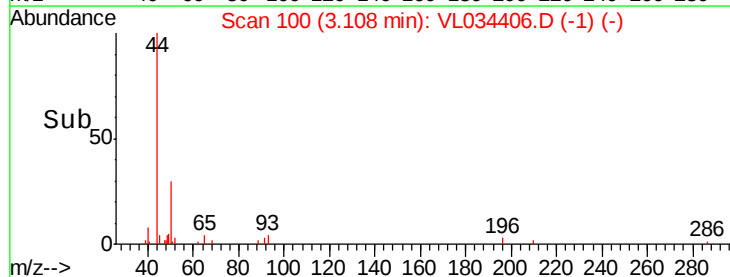
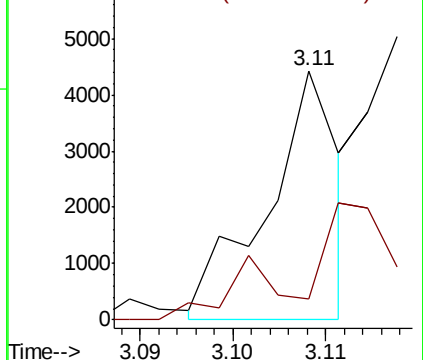
Ion Ratio Lower Upper

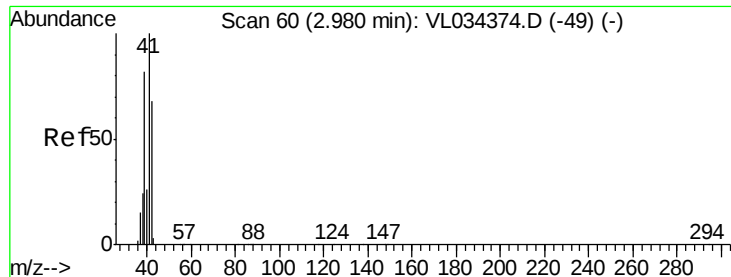
50 100

52 2.0 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.778 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.20 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

Instrument :

MSVOA_L

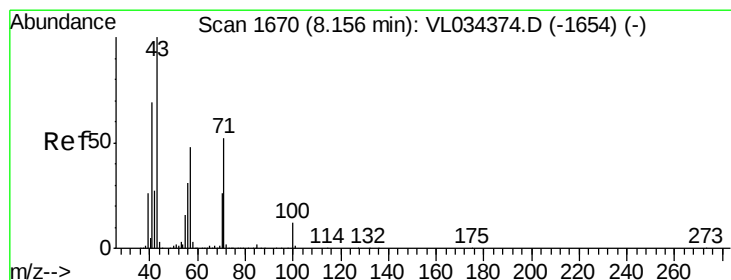
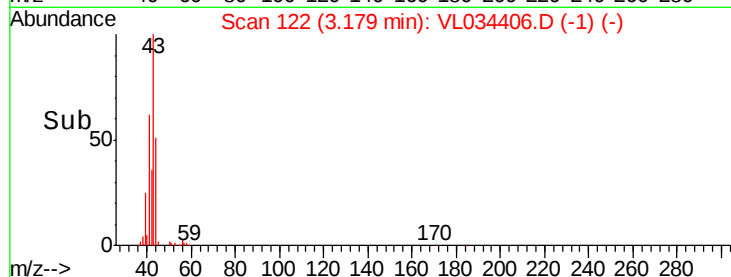
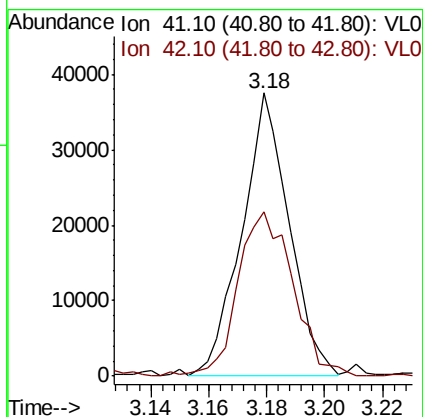
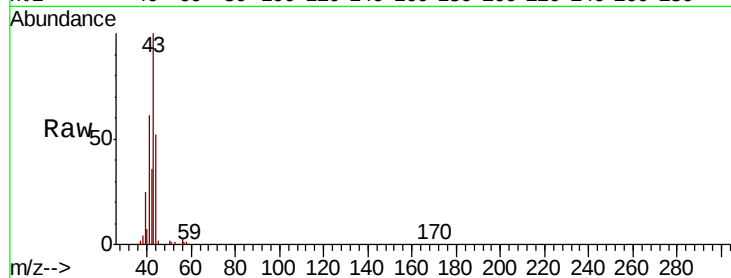
ClientSampleId :

Tot Ion: 41 Resp: 42553

Ion Ratio Lower Upper

41 100

42 67.9 54.6 82.0



#10

Heptane

Concen: 0.035 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VL034406.D

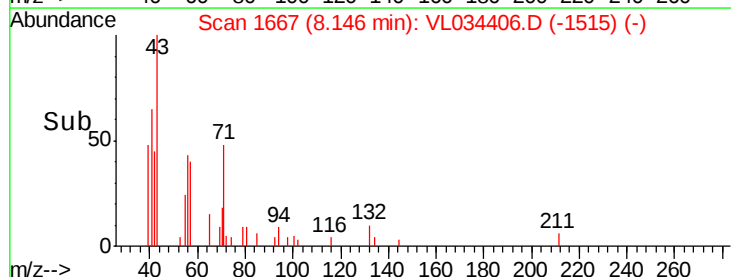
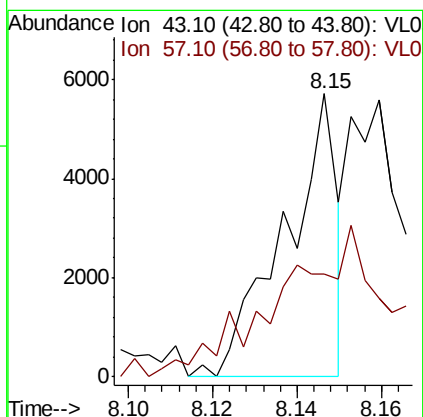
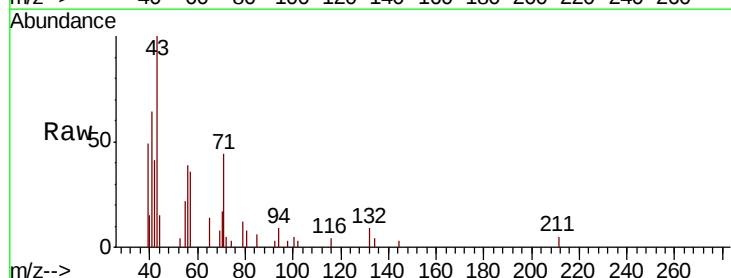
Acq: 25 Nov 2019 15:02

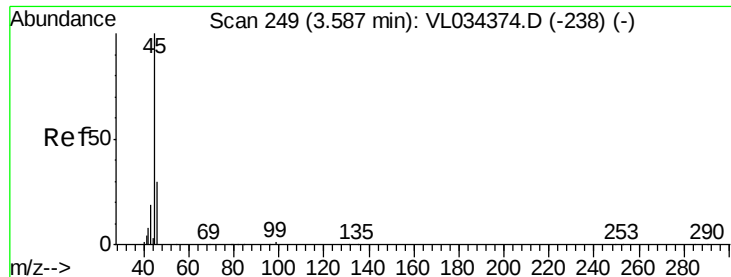
Tgt Ion: 43 Resp: 4919

Ion Ratio Lower Upper

43 100

57 0.0 40.2 60.2#





#13

Ethanol

Concen: 121.144 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.00 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

Instrument :

MSVOA_L

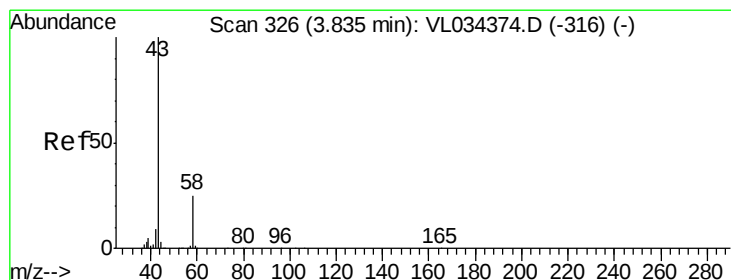
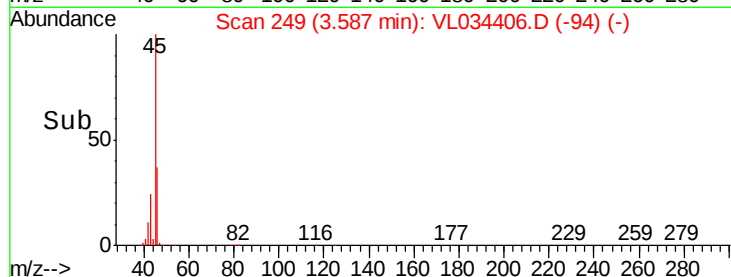
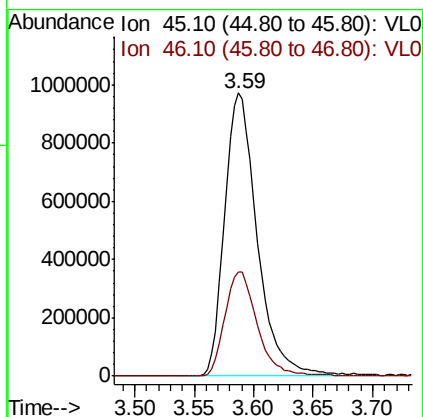
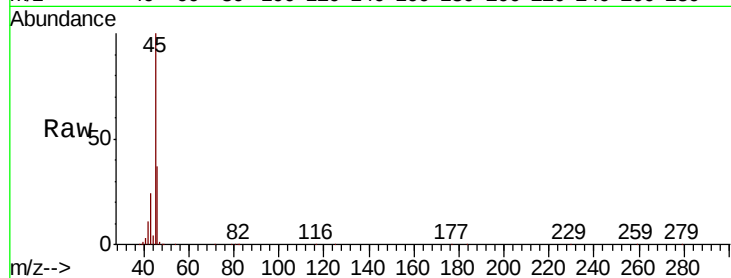
ClientSampled :

Tot Ion: 45 Resp: 1845802

Ion Ratio Lower Upper

45 100

46 36.7 13.8 55.4



#15

Acetone

Concen: 2.201 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034406.D

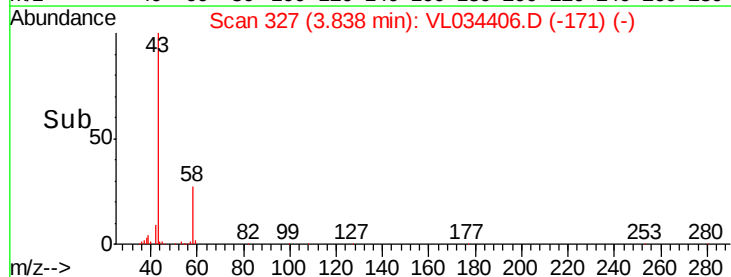
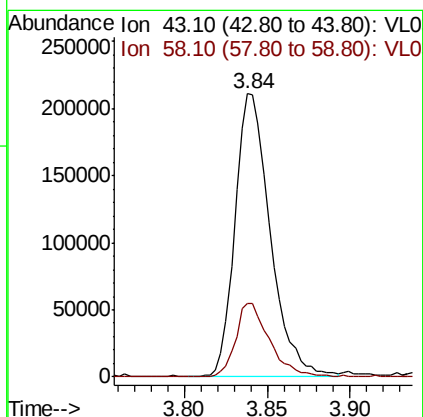
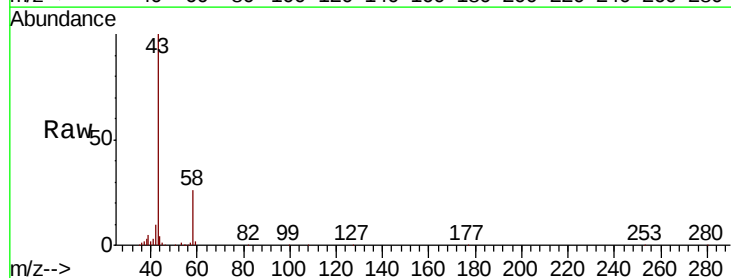
Acq: 25 Nov 2019 15:02

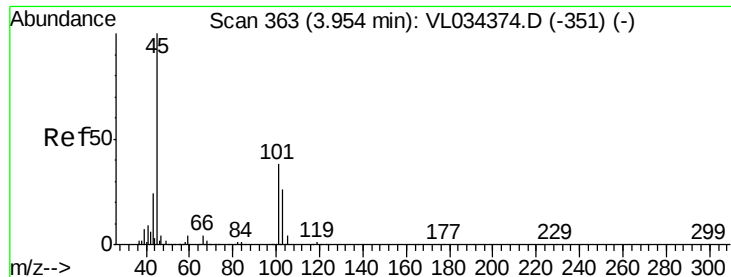
Tgt Ion: 43 Resp: 311250

Ion Ratio Lower Upper

43 100

58 25.6 20.2 30.4





#19

Isopropyl Alcohol

Concen: 2.048 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

Instrument :

MSVOA_L

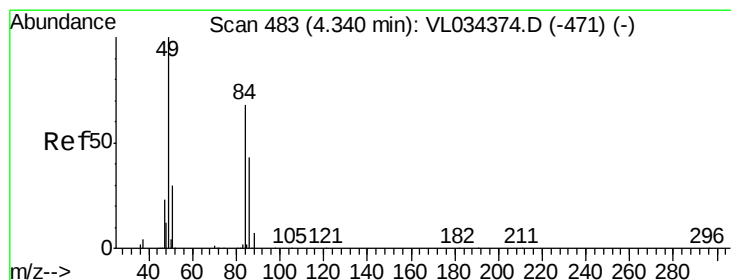
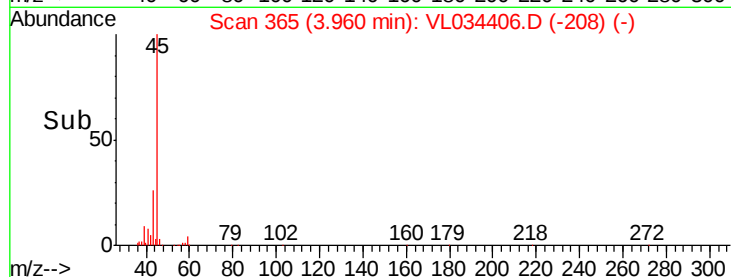
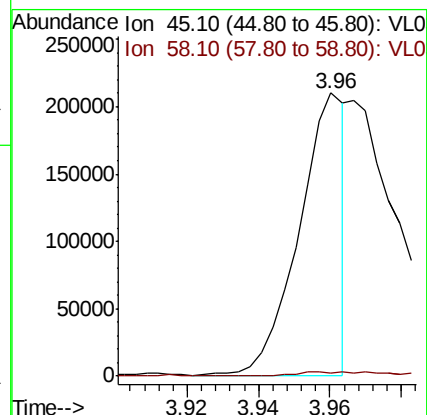
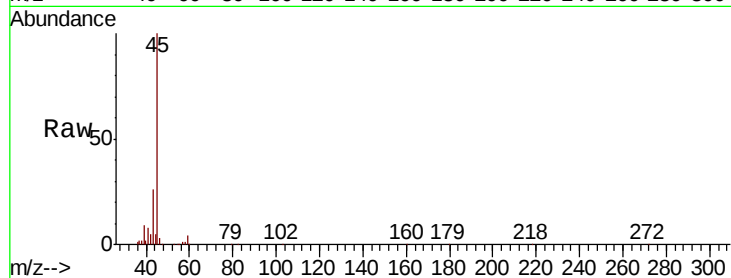
ClientSampled :

Tot Ion: 45 Resp: 185586

Ion Ratio Lower Upper

45 100

58 4.6 1.3 1.9#



#20

Methylene Chloride

Concen: 0.214 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

Tgt Ion: 84 Resp: 10725

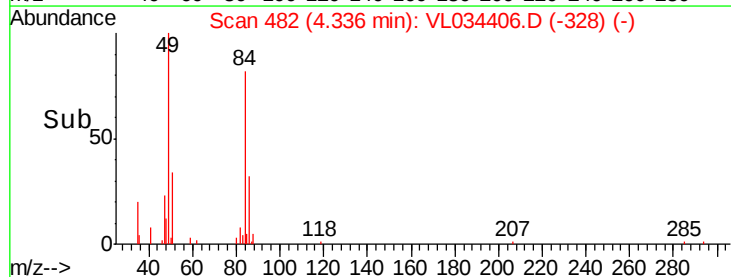
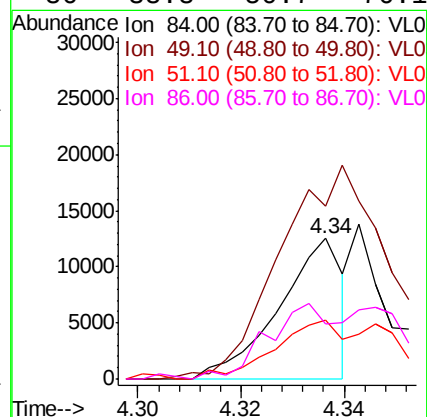
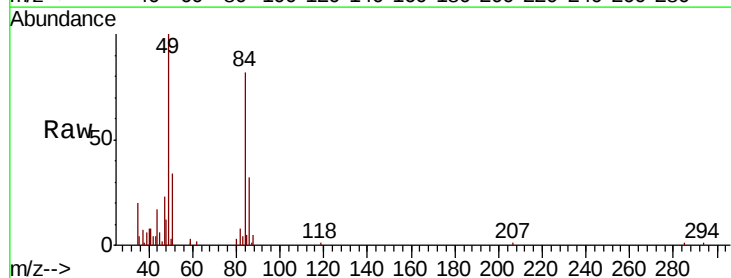
Ion Ratio Lower Upper

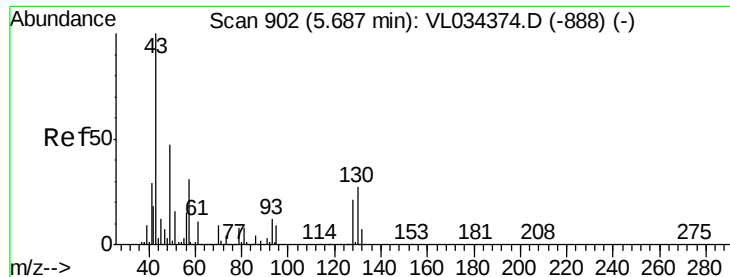
84 100

49 111.4 116.8 175.2#

51 41.4 35.6 53.4

86 38.8 50.7 76.1#

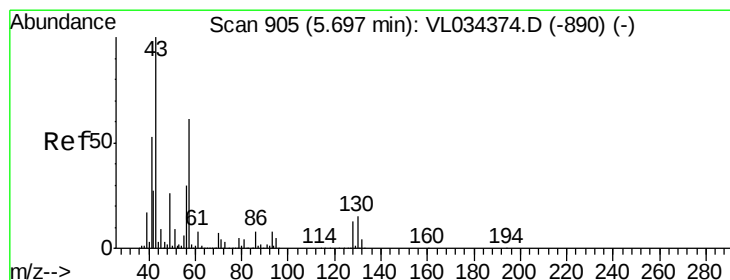
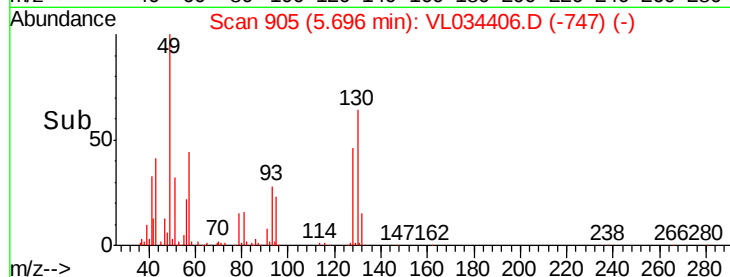
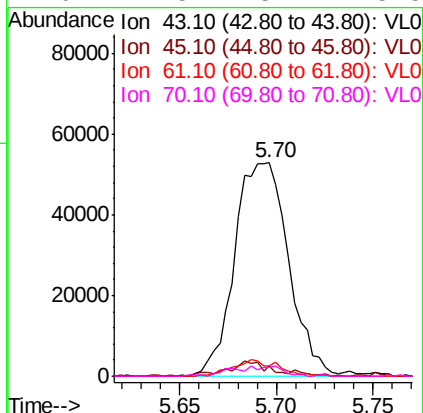
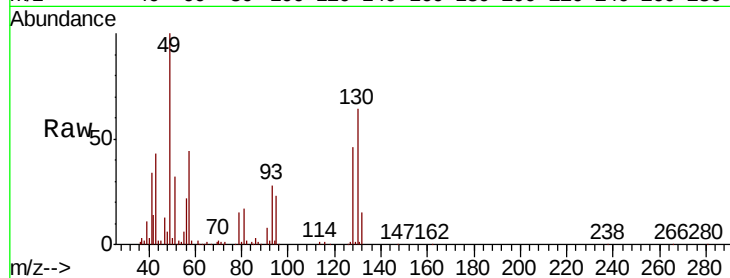




#25
Ethyl Acetate
Concen: 0.405 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL034406.D
Acq: 25 Nov 2019 15:02

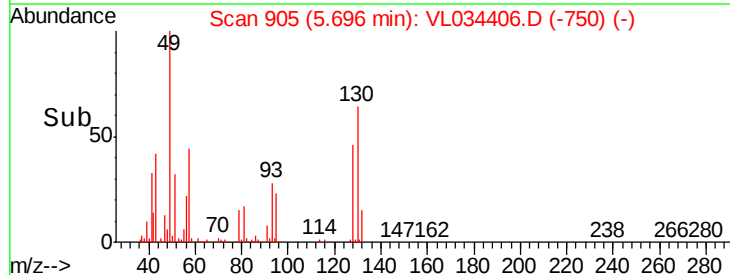
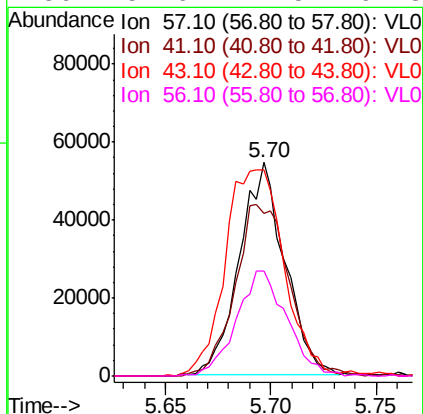
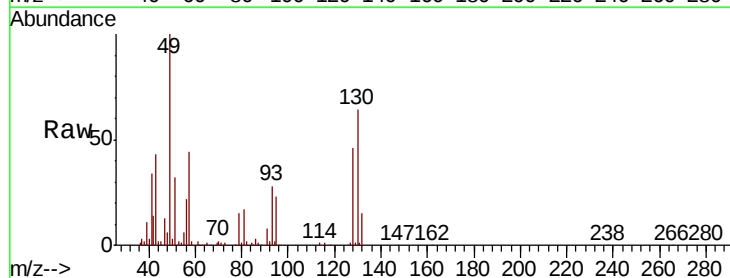
Instrument :
MSVOA_L
ClientSampleId :

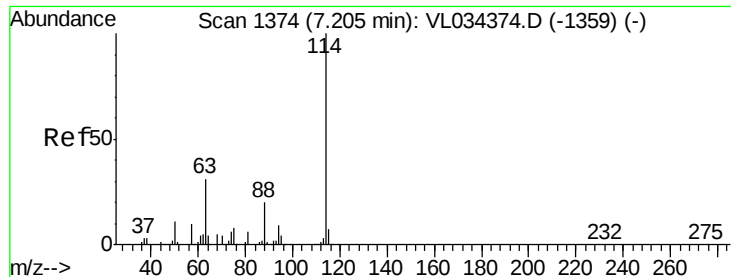
Tot Ion:	43	Resp:	102244
Ion	Ratio	Lower	Upper
43	100		
45	6.2	8.2	12.4#
61	6.7	7.5	11.3#
70	4.5	5.7	8.5#



#26
Hexane
Concen: 0.755 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL034406.D
Acq: 25 Nov 2019 15:02

Tgt Ion:	57	Resp:	81839
Ion	Ratio	Lower	Upper
57	100		
41	95.9	75.0	112.4
43	126.5	186.6	279.8#
56	54.6	41.5	62.3

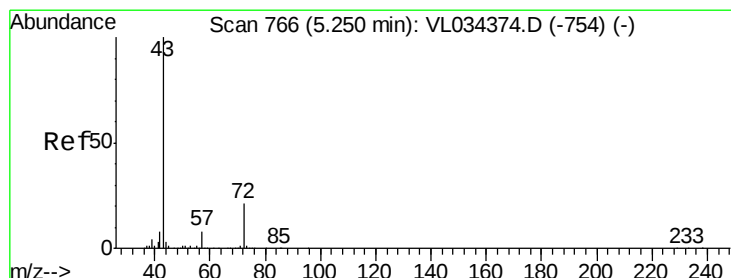
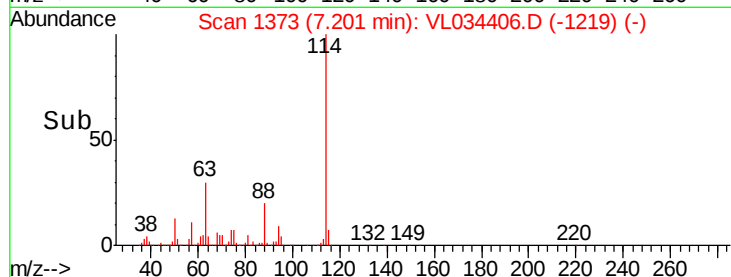
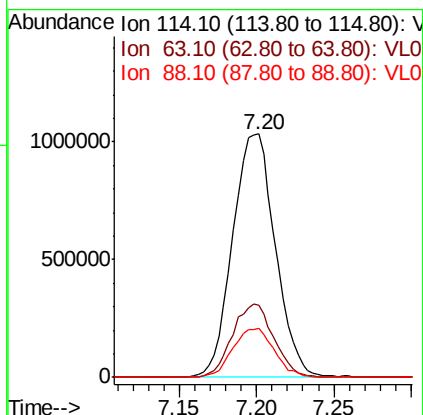
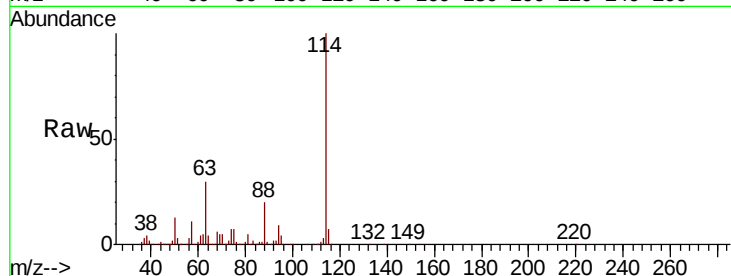




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. -0.00 min
 Lab File: VL034406.D
 Acq: 25 Nov 2019 15:02

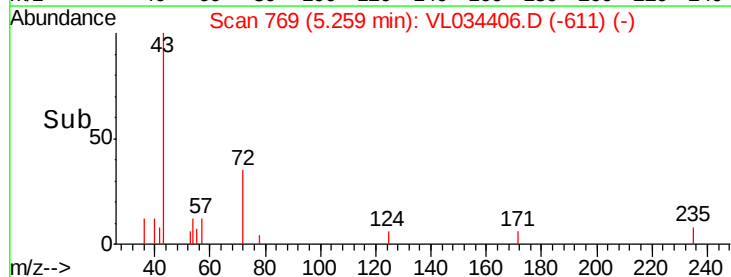
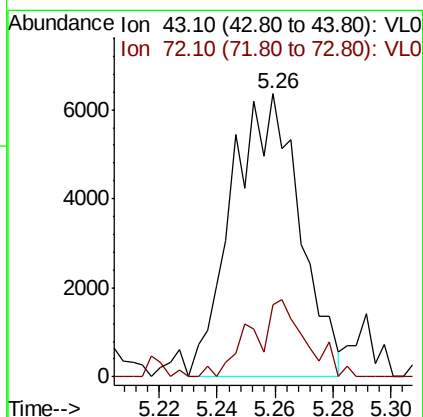
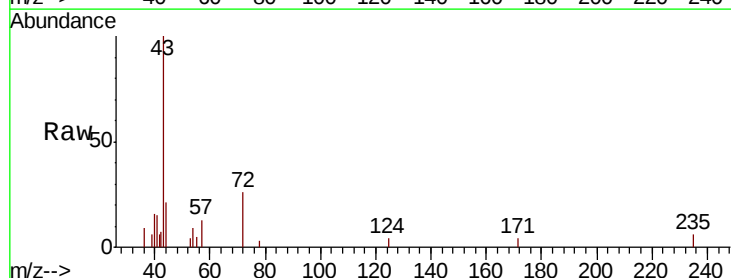
Instrument :
 MSVOA_L
 ClientSampleId :

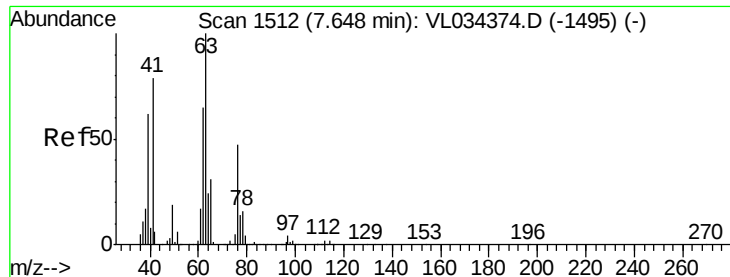
Tot Ion:114 Resp: 1981256
 Ion Ratio Lower Upper
 114 100
 63 29.3 24.2 36.4
 88 19.8 15.9 23.9



#34
 2-Butanone
 Concen: 0.063 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL034406.D
 Acq: 25 Nov 2019 15:02

Tgt Ion: 43 Resp: 10276
 Ion Ratio Lower Upper
 43 100
 72 23.4 17.0 25.6





#39

1,2-Dichloropropane

Concen: 7.564 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.45 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

Instrument :

MSVOA_L

ClientSampleId :

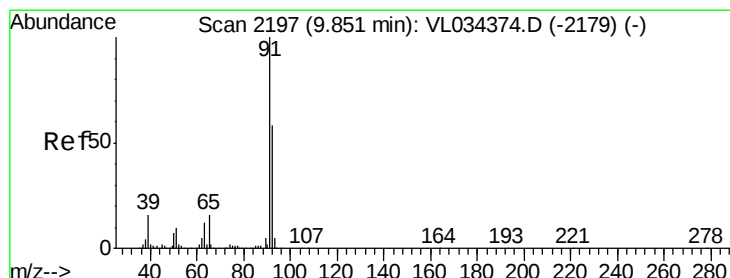
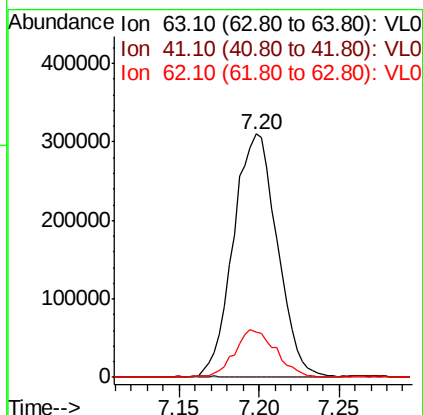
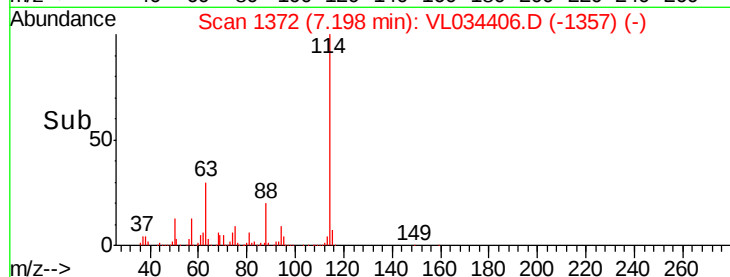
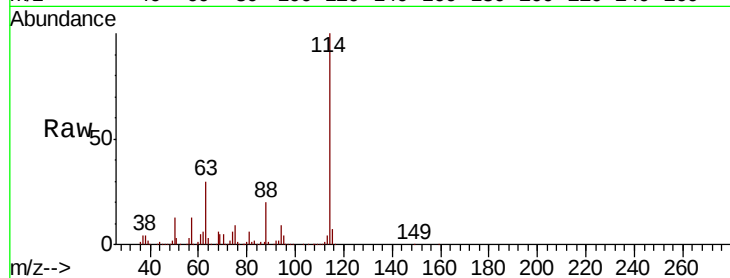
Tot Ion: 63 Resp: 577171

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

62 18.5 52.3 78.5#



#53

Toluene

Concen: 0.260 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034406.D

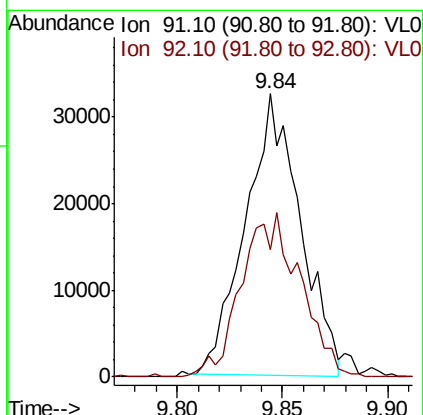
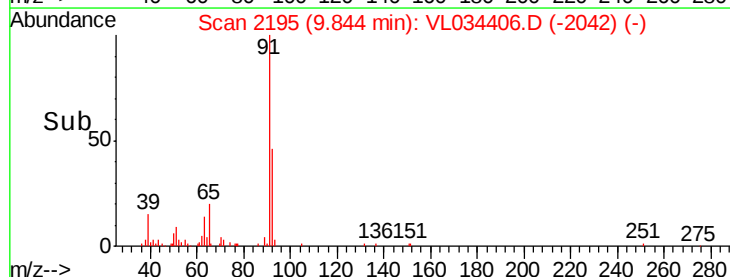
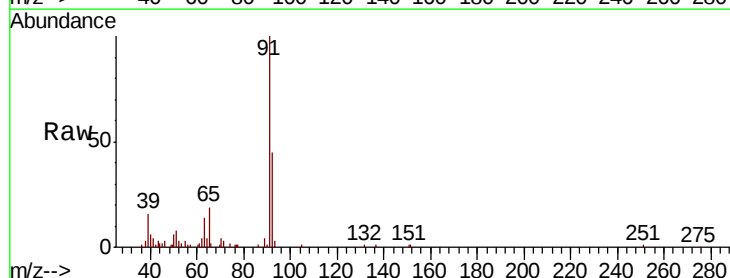
Acq: 25 Nov 2019 15:02

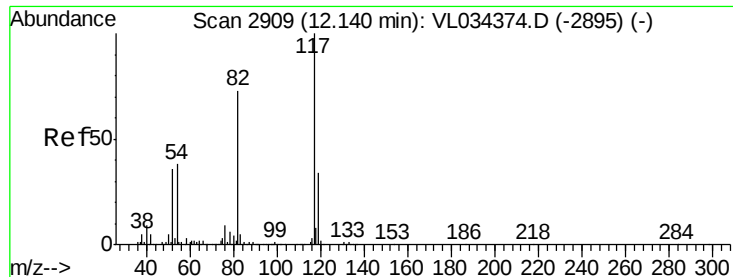
Tgt Ion: 91 Resp: 58567

Ion Ratio Lower Upper

91 100

92 63.0 47.9 71.9

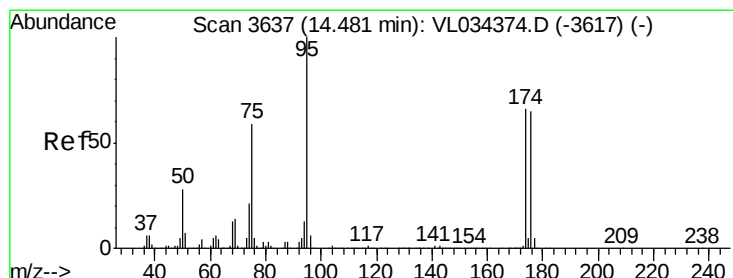
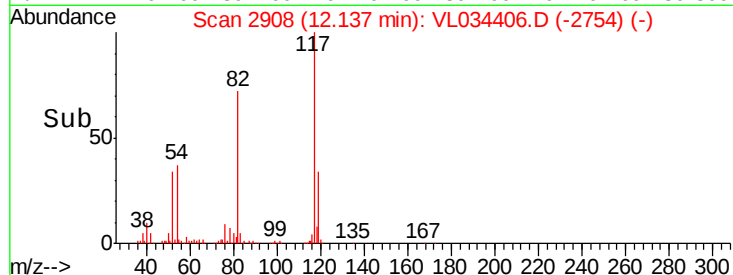
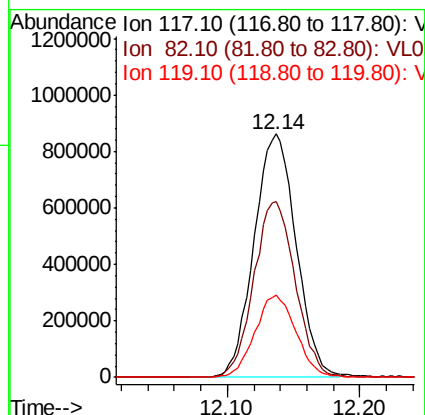
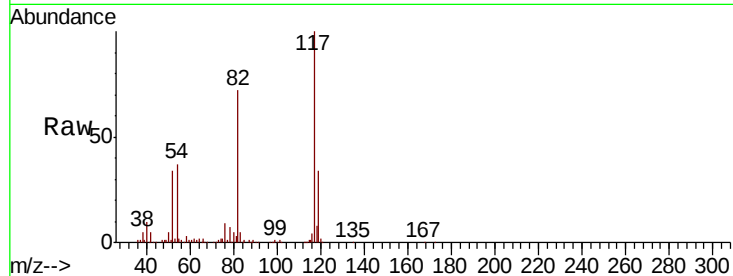




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034406.D
Acq: 25 Nov 2019 15:02

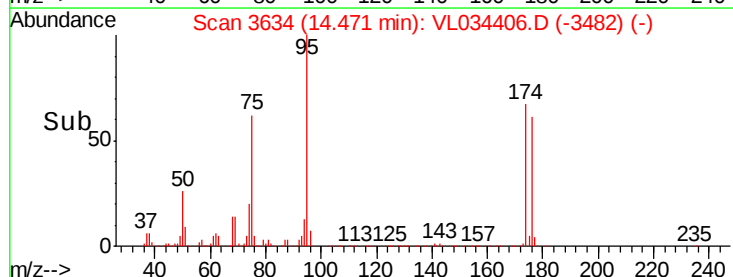
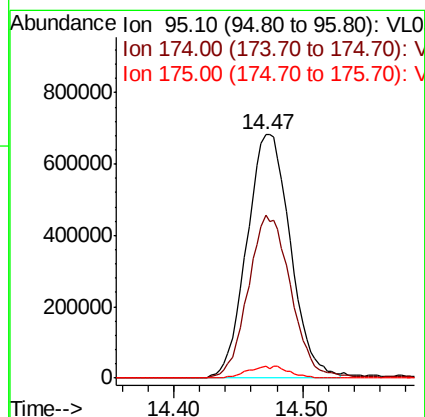
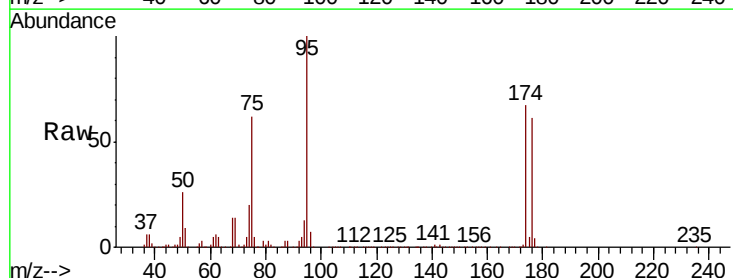
Instrument :
MSVOA_L
ClientSampleId :

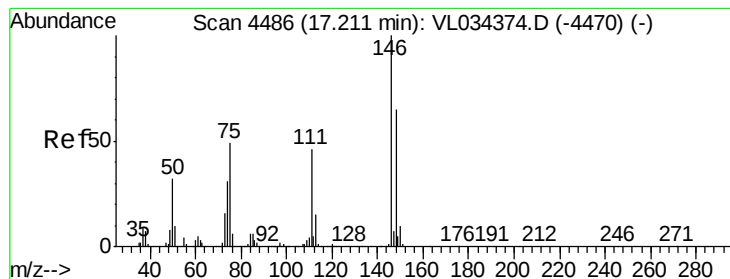
Tot Ion:117 Resp: 1904679
Ion Ratio Lower Upper
117 100
82 71.7 57.5 86.3
119 33.1 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.026 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034406.D
Acq: 25 Nov 2019 15:02

Tgt Ion: 95 Resp: 1606482
Ion Ratio Lower Upper
95 100
174 66.3 52.2 78.2
175 4.7 3.8 5.8





#76

1,4-Dichlorobenzene

Concen: 0.035 ppbv

RT: 17.21 min Scan# 4486

Delta R.T. -0.00 min

Lab File: VL034406.D

Acq: 25 Nov 2019 15:02

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 5886

Ion Ratio Lower Upper

146 100

111 0.0 24.1 72.3#

148 143.0 32.9 98.6#

