

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101419\
 Data File : VL034291.D
 Acq On : 14 Oct 2019 21:17
 Operator : SY/AP
 Sample : K5302-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Oct 15 02:50:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1043445	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1794052	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1757174	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1559394	10.21	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

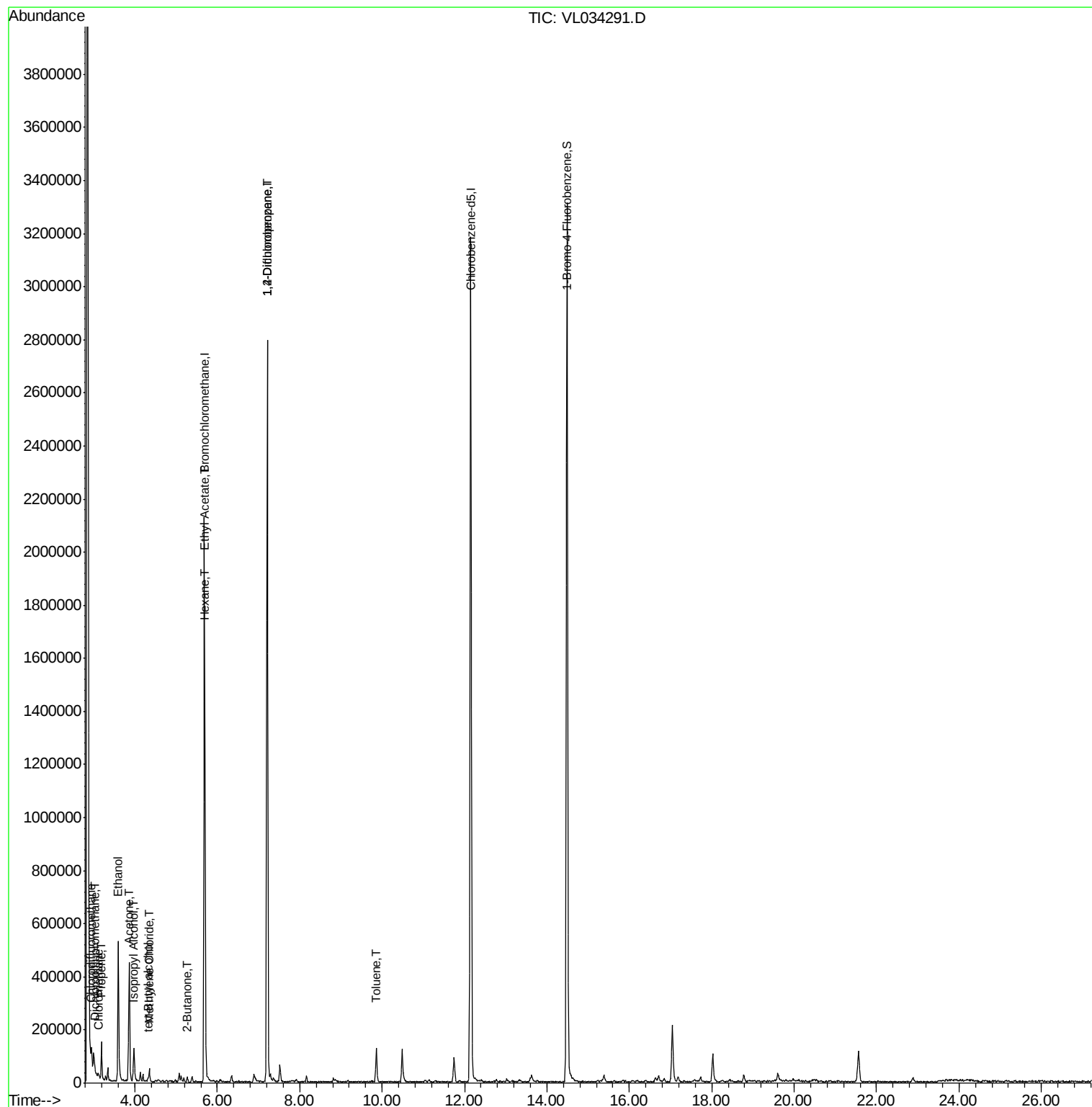
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	9480	0.062	ppbv	95
3) Chlorodifluoromethane	2.94	51	34296	0.280	ppbv #	66
4) Chloromethane	3.12	50	3145	0.044	ppbv #	68
9) Propene	3.19	41	27683	0.459	ppbv	85
13) Ethanol	3.59	45	504648	34.526	ppbv	98
15) Acetone	3.85	43	299938	2.145	ppbv #	82
17) tert-Butyl alcohol	4.31	59	2818	0.032	ppbv #	71
19) Isopropyl Alcohol	3.97	45	146219	1.700	ppbv #	96
20) Methylene Chloride	4.35	84	13853	0.344	ppbv #	75
25) Ethyl Acetate	5.70	43	109957	0.416	ppbv	98
26) Hexane	5.71	57	46774	0.425	ppbv	94
34) 2-Butanone	5.27	43	13639	0.074	ppbv #	58
39) 1,2-Dichloropropane	7.21	63	576904	6.480	ppbv #	19
53) Toluene	9.86	91	89140	0.412	ppbv	95

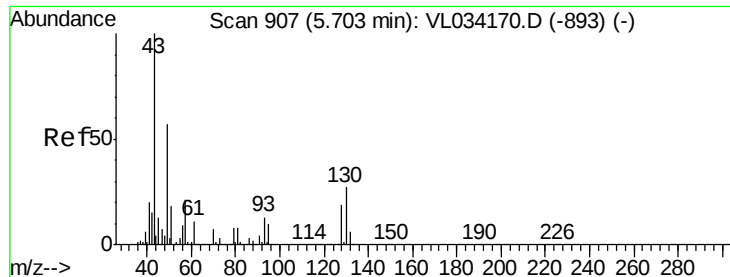
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 15 02:50:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034291.D

Acq: 14 Oct 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

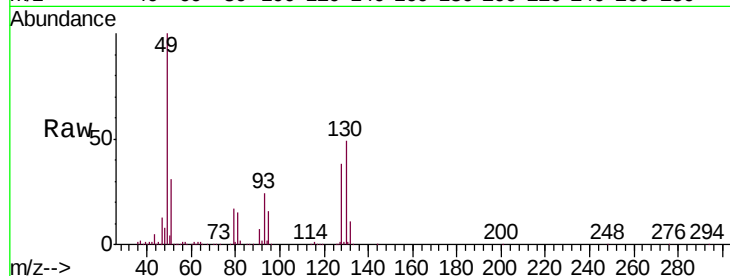
Tgt Ion: 49 Resp: 1043445

Ion Ratio Lower Upper

49 100

128 36.9 17.6 52.9

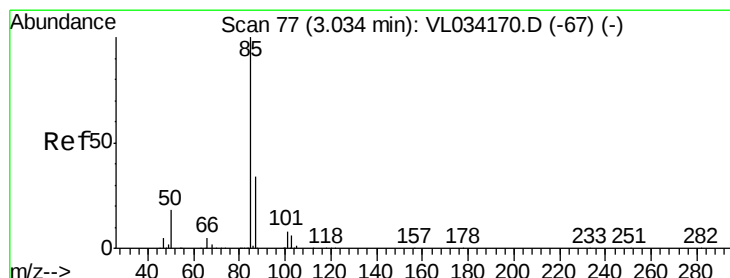
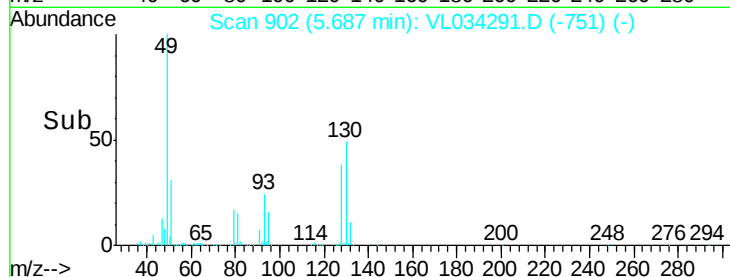
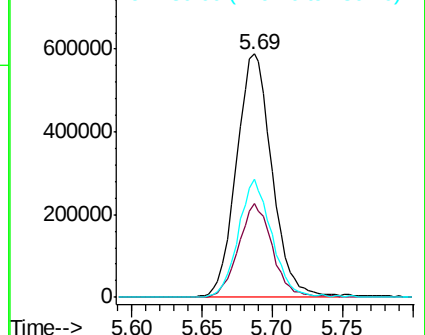
130 46.0 22.3 66.9



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



#2

Dichlorodifluoromethane

Concen: 0.062 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034291.D

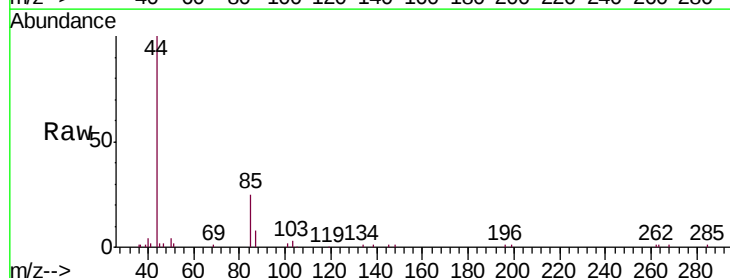
Acq: 14 Oct 2019 21:17

Tgt Ion: 85 Resp: 9480

Ion Ratio Lower Upper

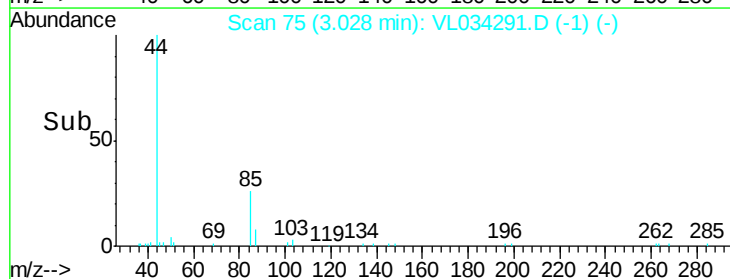
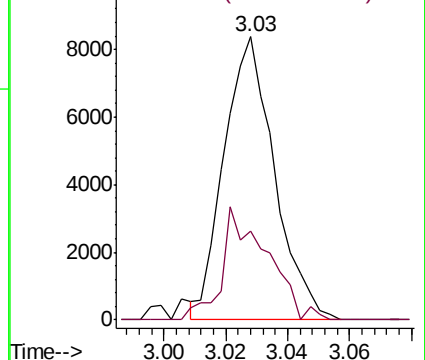
85 100

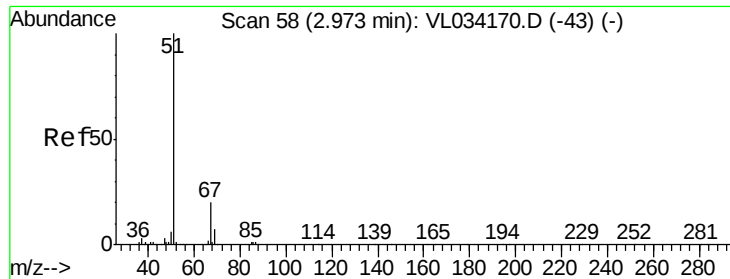
87 31.2 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

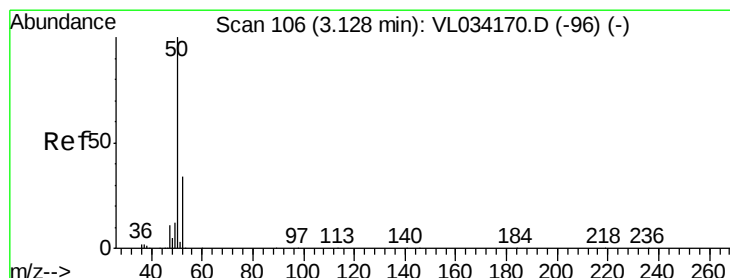
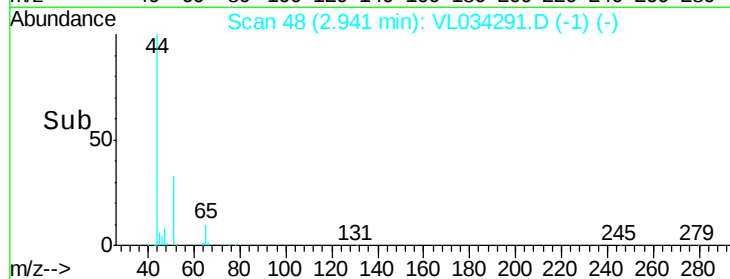
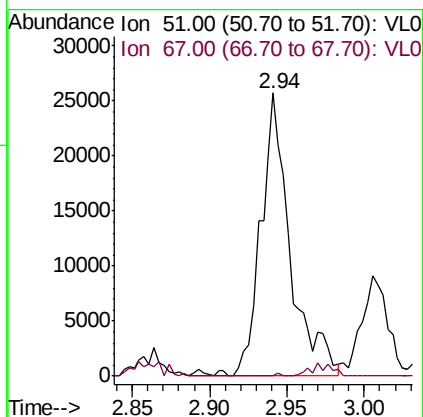
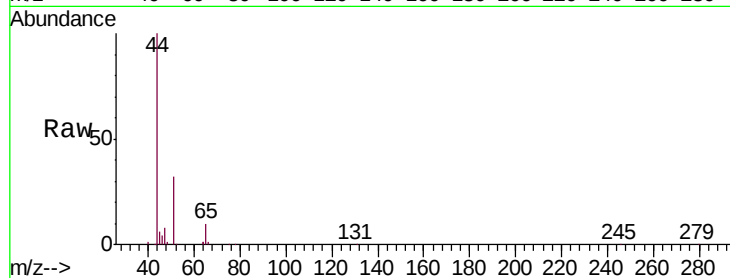




#3
Chlorodifluoromethane
Concen: 0.280 ppbv
RT: 2.94 min Scan# 48
Delta R.T. -0.03 min
Lab File: VL034291.D
Acq: 14 Oct 2019 21:17

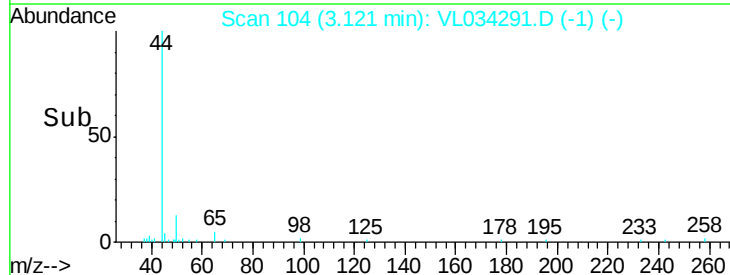
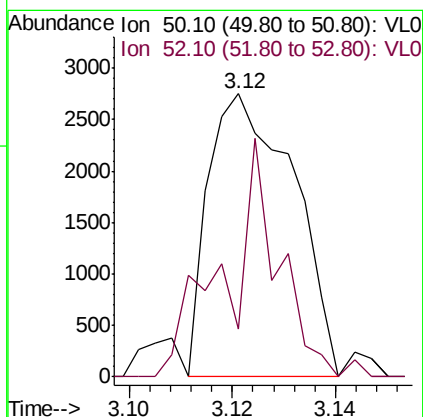
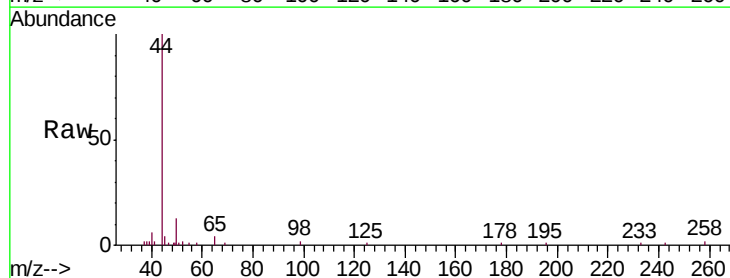
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

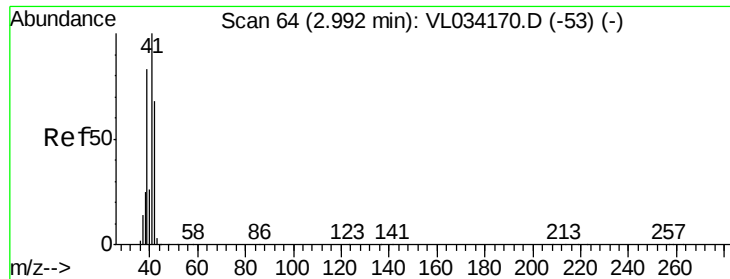
Tgt Ion: 51 Resp: 34296
Ion Ratio Lower Upper
51 100
67 3.3 14.8 22.2#



#4
Chloromethane
Concen: 0.044 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL034291.D
Acq: 14 Oct 2019 21:17

Tgt Ion: 50 Resp: 3145
Ion Ratio Lower Upper
50 100
52 15.7 27.1 40.7#





#9

Propene

Concen: 0.459 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.19 min

Lab File: VL034291.D

Acq: 14 Oct 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

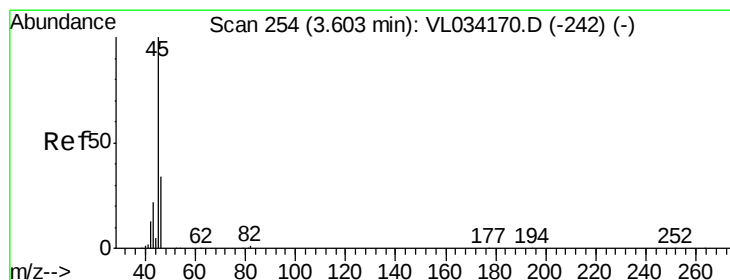
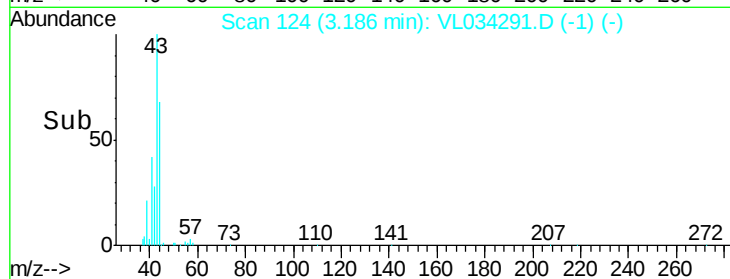
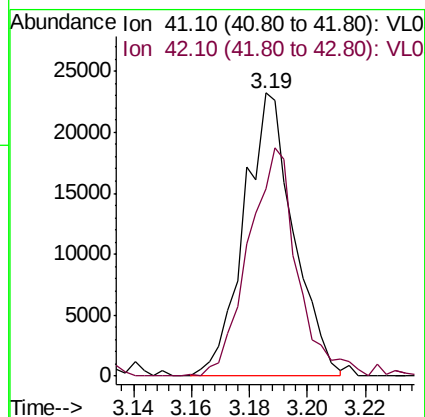
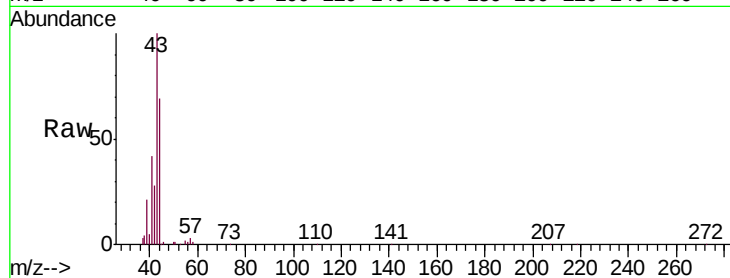
IA1DL

Tgt Ion: 41 Resp: 27683

Ion Ratio Lower Upper

41 100

42 81.8 55.8 83.6



#13

Ethanol

Concen: 34.526 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL034291.D

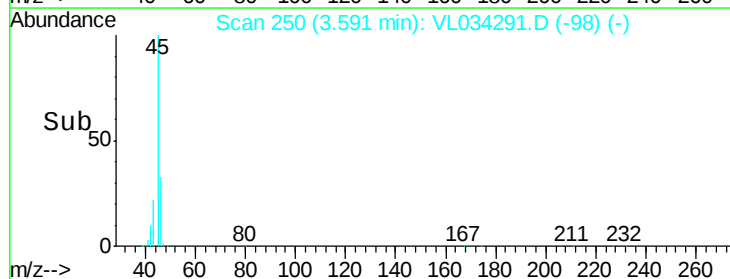
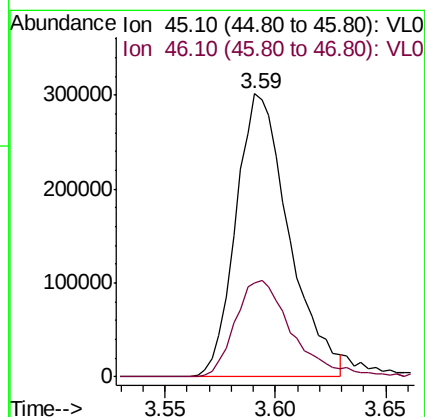
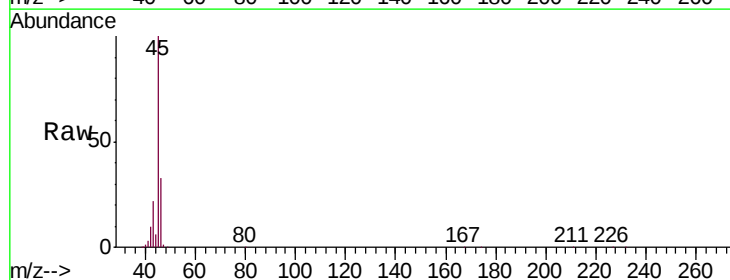
Acq: 14 Oct 2019 21:17

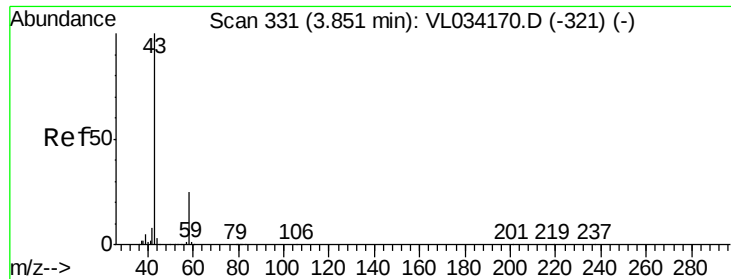
Tgt Ion: 45 Resp: 504648

Ion Ratio Lower Upper

45 100

46 37.7 15.5 61.9





#15

Acetone

Concen: 2.145 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034291.D

Acq: 14 Oct 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

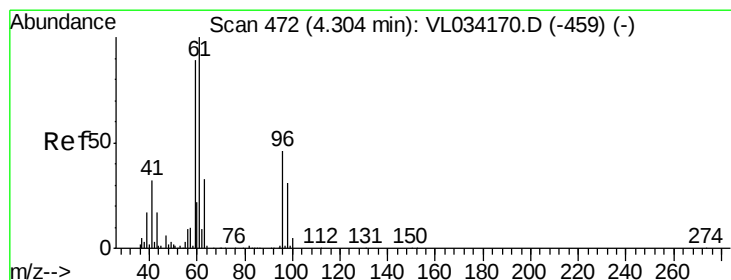
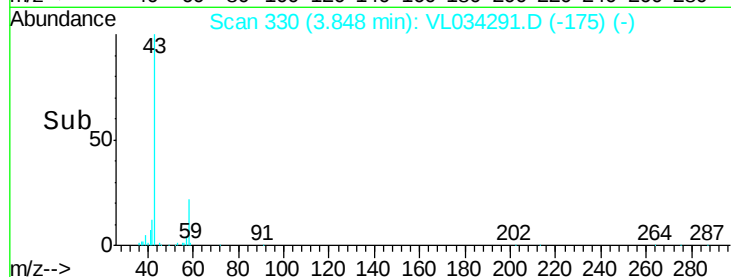
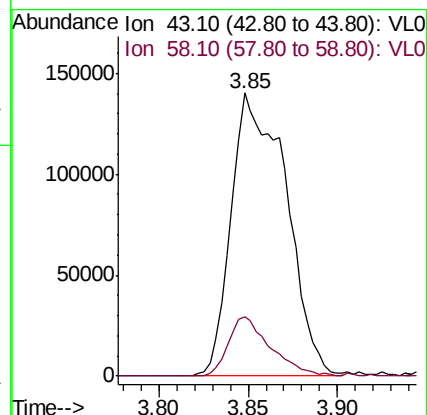
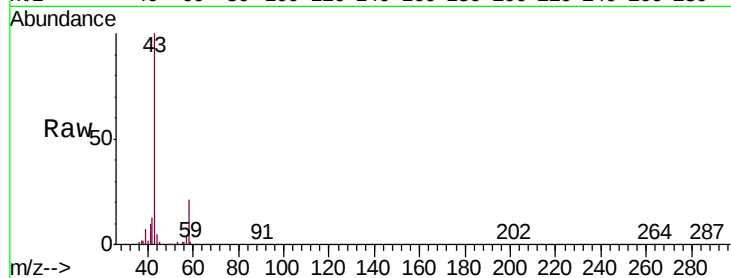
IA1DL

Tgt Ion: 43 Resp: 299938

Ion Ratio Lower Upper

43 100

58 16.5 20.5 30.7#



#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.01 min

Lab File: VL034291.D

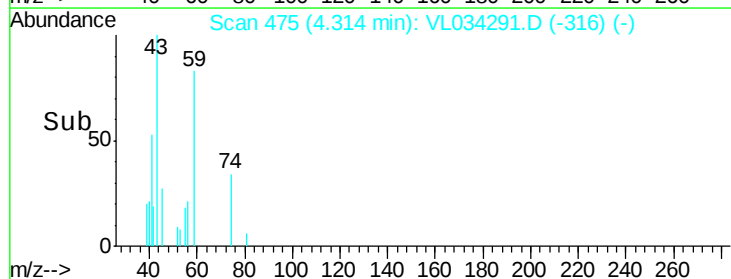
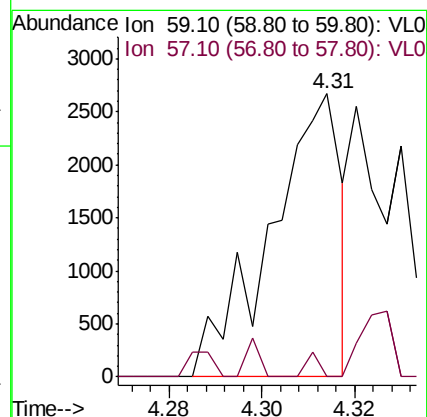
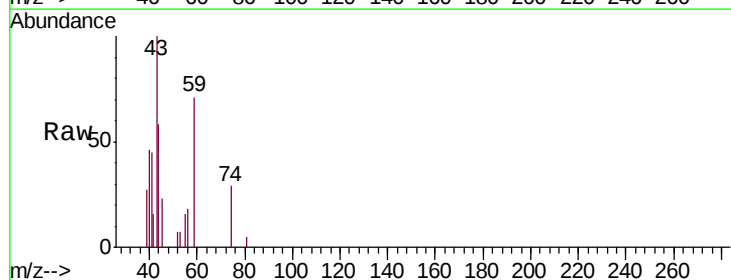
Acq: 14 Oct 2019 21:17

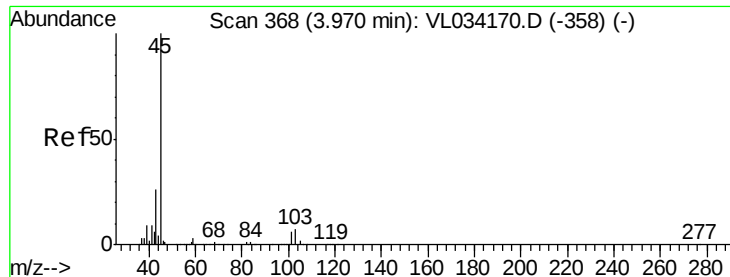
Tgt Ion: 59 Resp: 2818

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 1.700 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL034291.D

Acq: 14 Oct 2019 21:17

Instrument :

MSVOA_L

ClientSampleId :

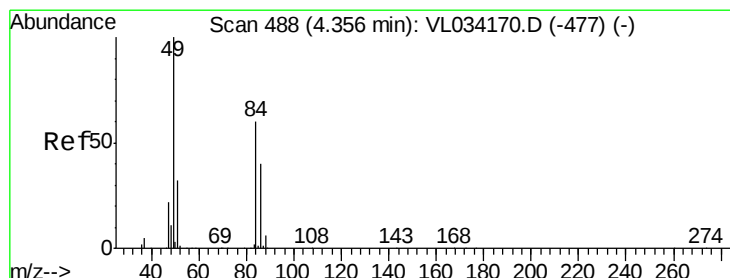
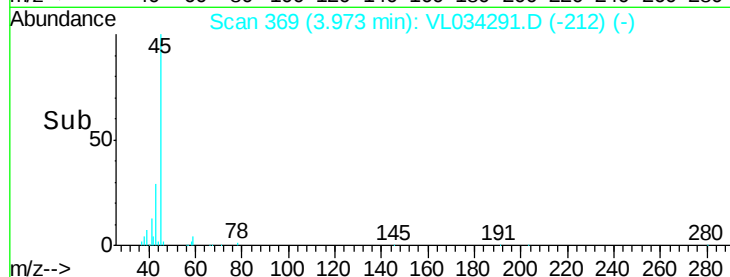
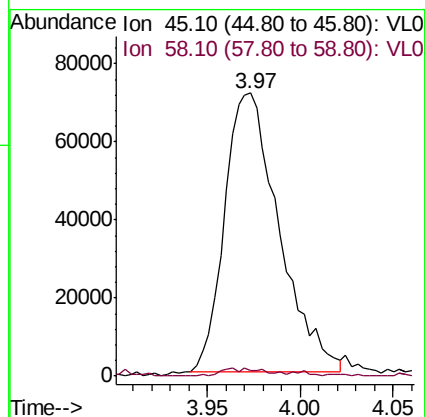
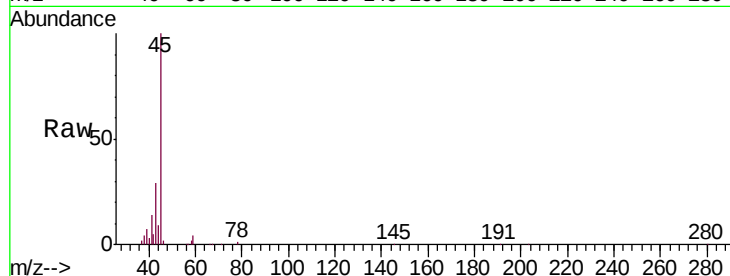
IA1DL

Tgt Ion: 45 Resp: 146219

Ion Ratio Lower Upper

45 100

58 3.2 1.4 2.0#



#20

Methylene Chloride

Concen: 0.344 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL034291.D

Acq: 14 Oct 2019 21:17

Tgt Ion: 84 Resp: 13853

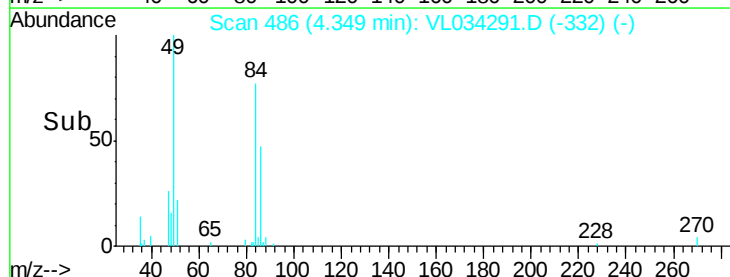
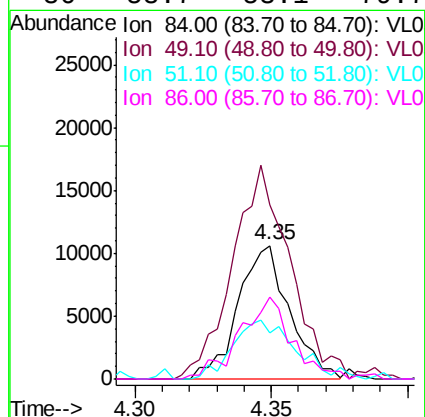
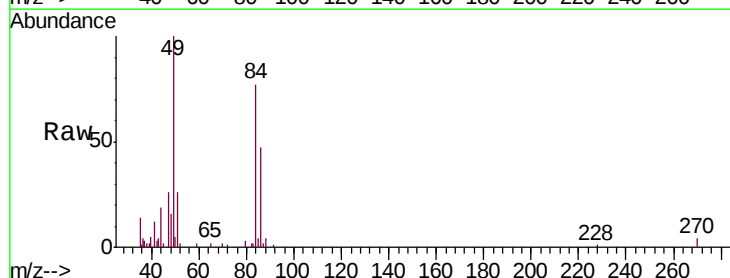
Ion Ratio Lower Upper

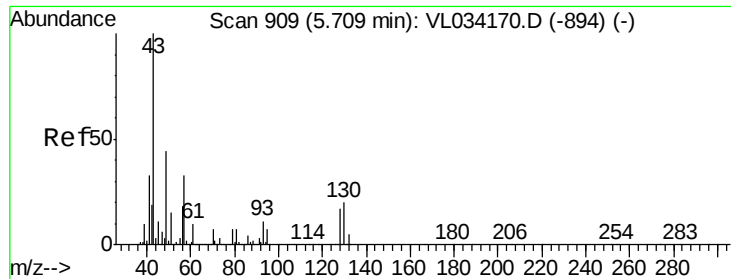
84 100

49 126.9 133.8 200.8#

51 34.1 43.6 65.4#

86 58.7 53.1 79.7

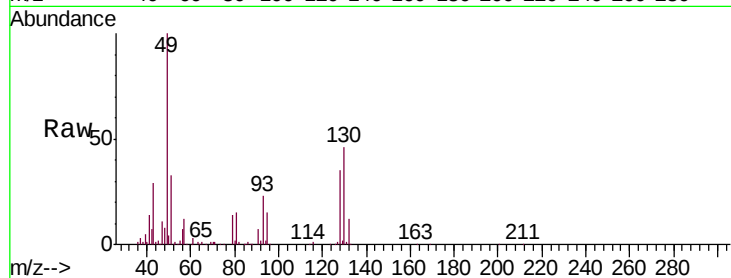




#25
Ethyl Acetate
Concen: 0.416 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034291.D
Acq: 14 Oct 2019 21:17

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion:	43	Resp:	109957
Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.4	12.6
61	10.2	7.2	10.8
70	6.5	5.3	7.9



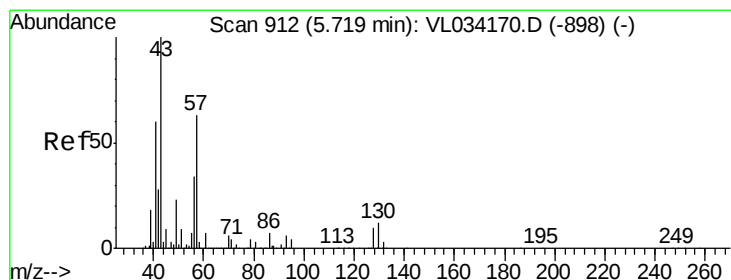
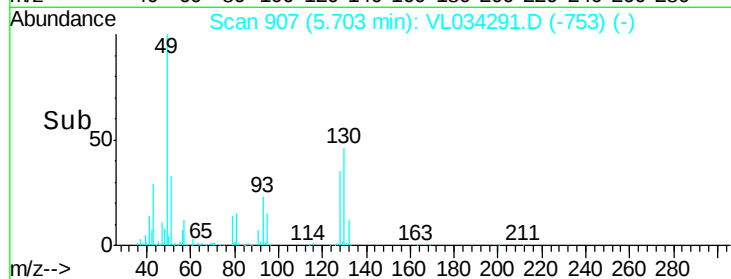
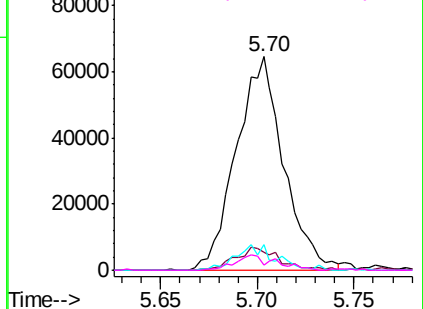
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

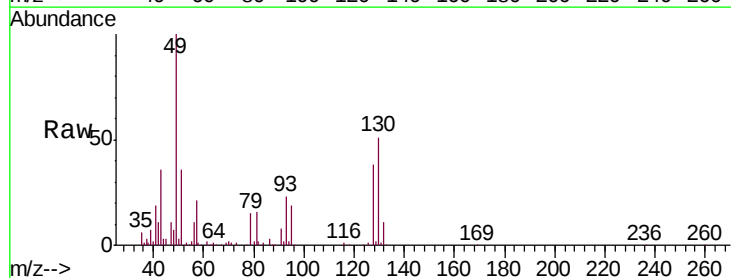
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.425 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.01 min
Lab File: VL034291.D
Acq: 14 Oct 2019 21:17

Tgt Ion:	57	Resp:	46774
Ion	Ratio	Lower	Upper
57	100		
41	109.7	78.5	117.7
43	240.5	189.5	284.3
56	61.4	43.2	64.8



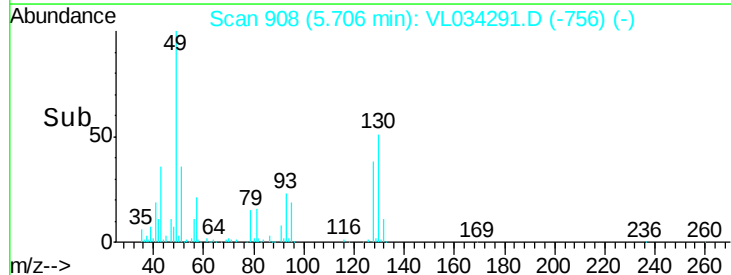
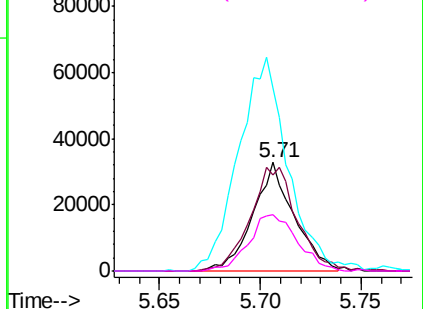
Abundance

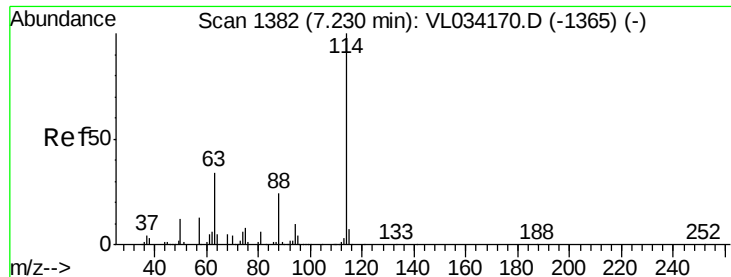
Ion 57.10 (56.80 to 57.80): VL0

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

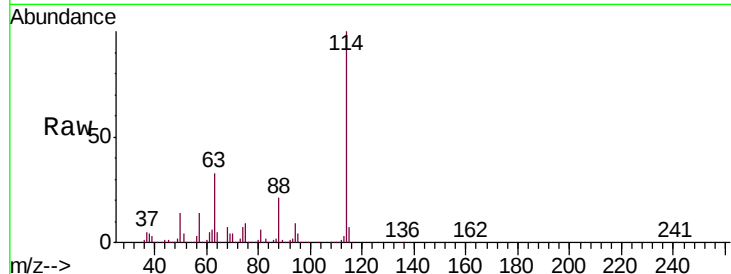




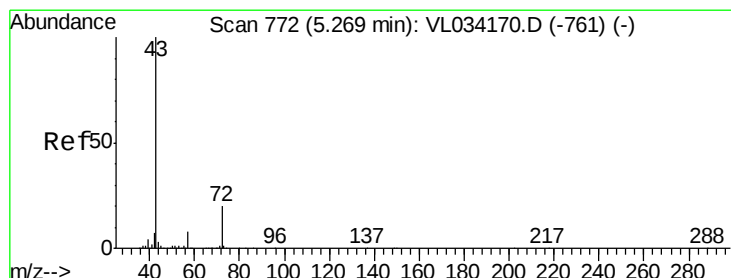
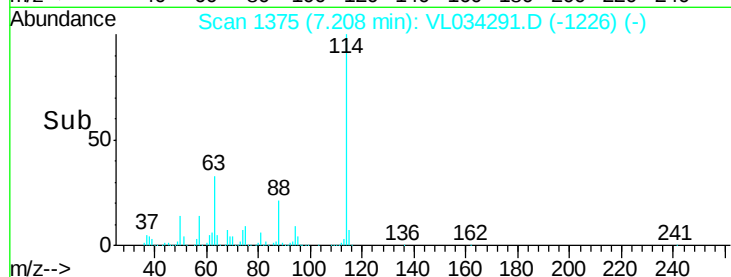
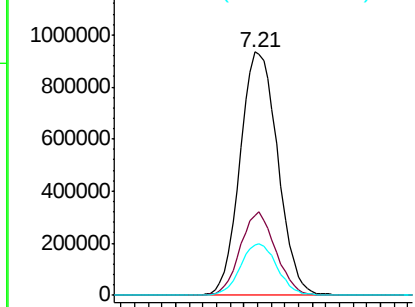
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VL034291.D
 Acq: 14 Oct 2019 21:17

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Tgt Ion:114 Resp: 1794052
 Ion Ratio Lower Upper
 114 100
 63 32.3 27.8 41.6
 88 20.7 17.1 25.7

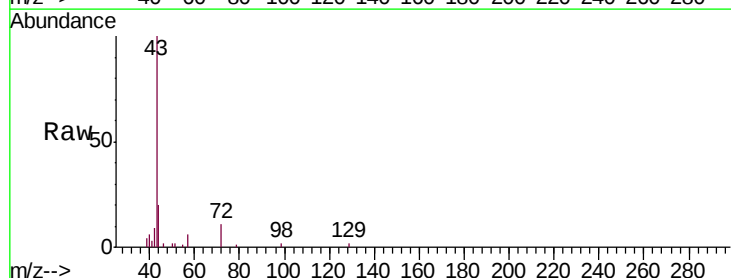


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

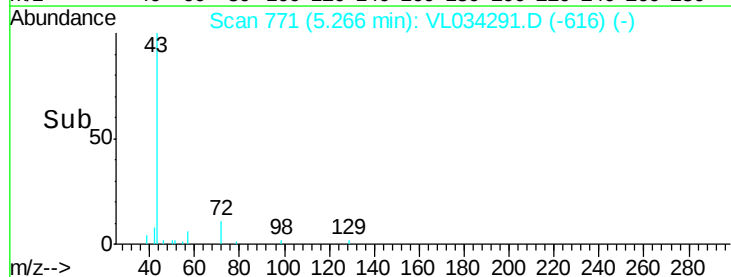
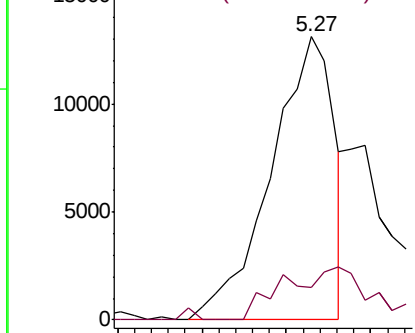


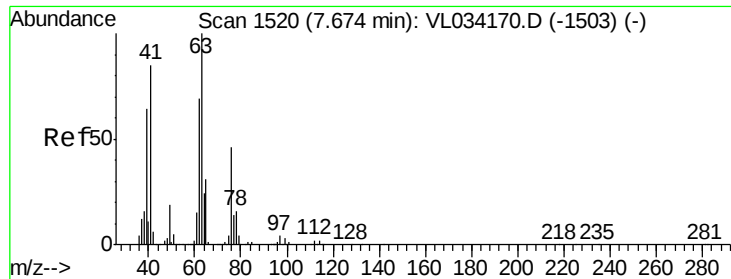
#34
 2-Butanone
 Concen: 0.074 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.00 min
 Lab File: VL034291.D
 Acq: 14 Oct 2019 21:17

Tgt Ion: 43 Resp: 13639
 Ion Ratio Lower Upper
 43 100
 72 0.0 15.0 22.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

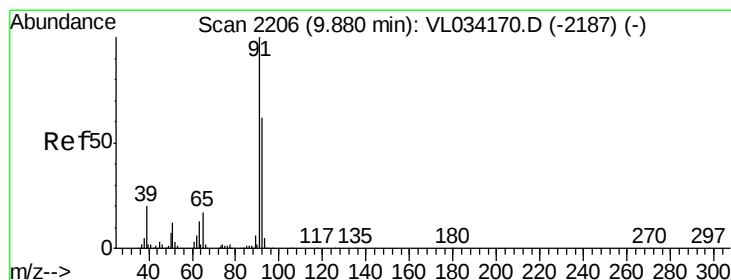
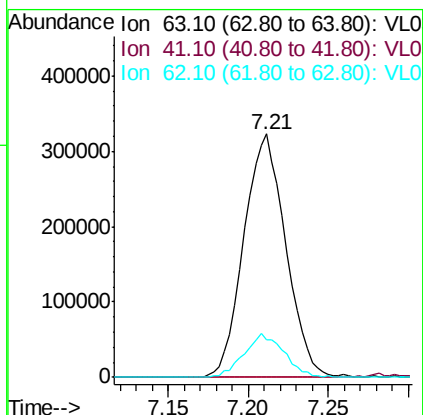
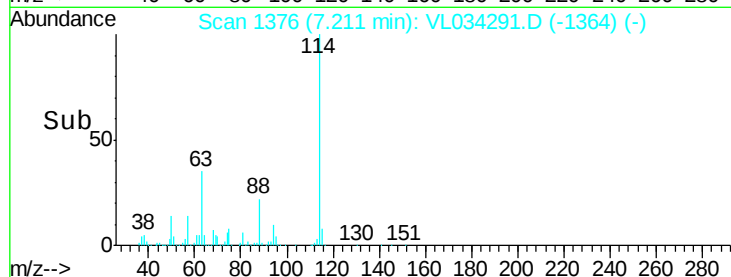
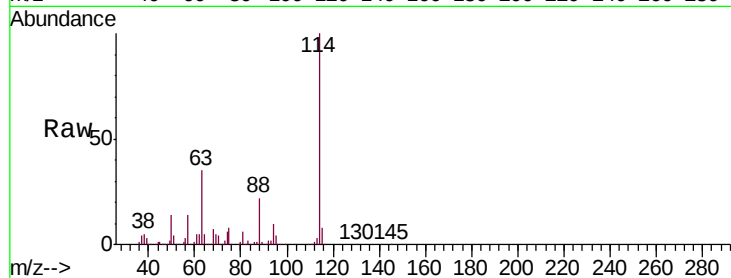




#39
 1,2-Dichloropropane
 Concen: 6.480 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.46 min
 Lab File: VL034291.D
 Acq: 14 Oct 2019 21:17

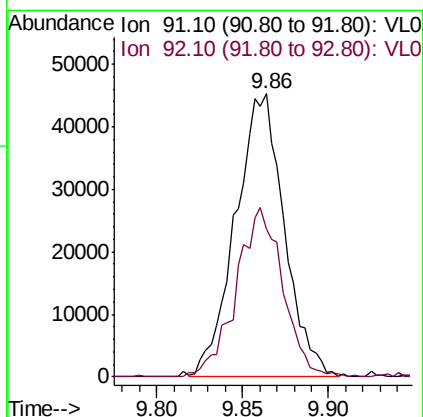
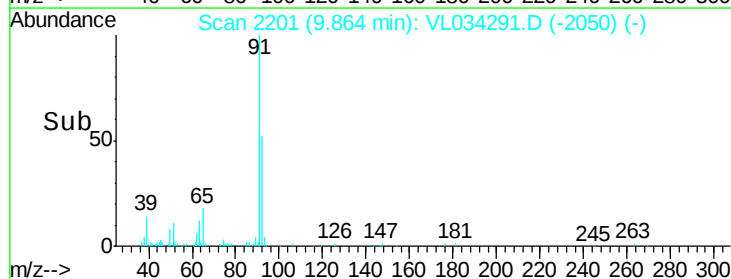
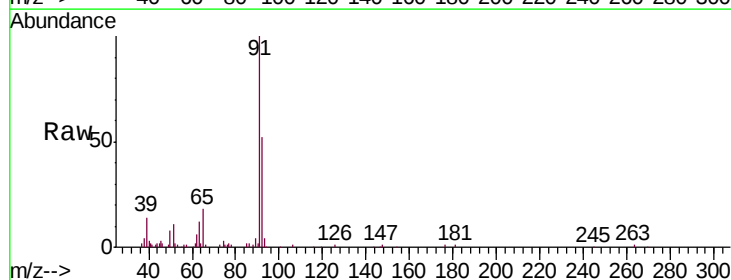
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

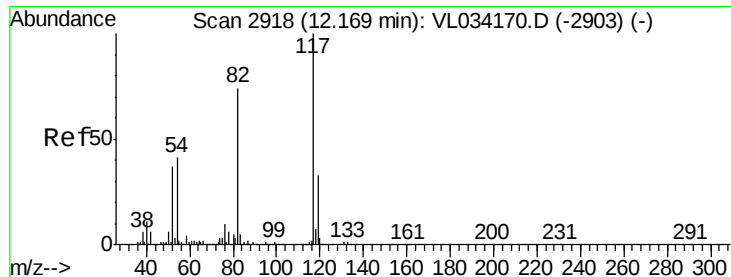
Tgt Ion: 63 Resp: 576904
 Ion Ratio Lower Upper
 63 100
 41 0.0 68.4 102.6#
 62 15.5 55.4 83.2#



#53
 Toluene
 Concen: 0.412 ppbv
 RT: 9.86 min Scan# 2201
 Delta R.T. -0.02 min
 Lab File: VL034291.D
 Acq: 14 Oct 2019 21:17

Tgt Ion: 91 Resp: 89140
 Ion Ratio Lower Upper
 91 100
 92 57.6 49.0 73.6

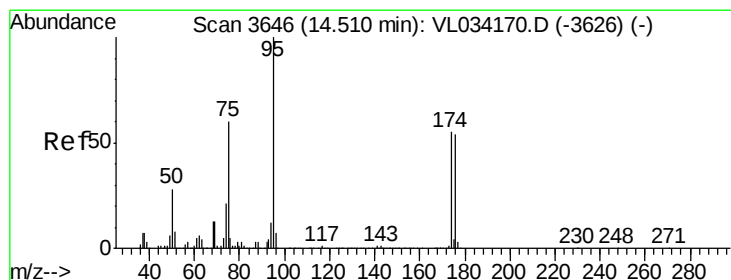
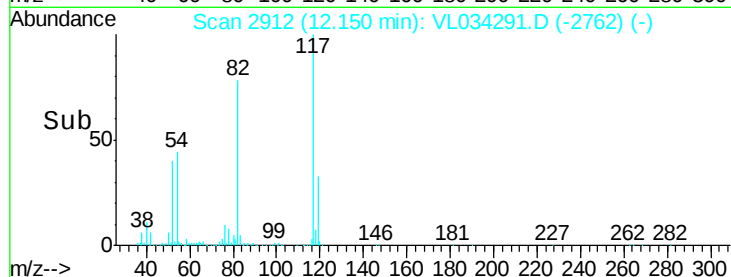
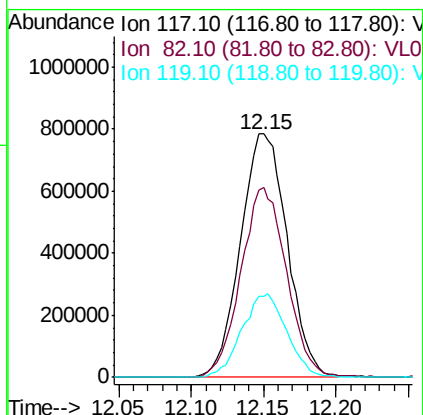
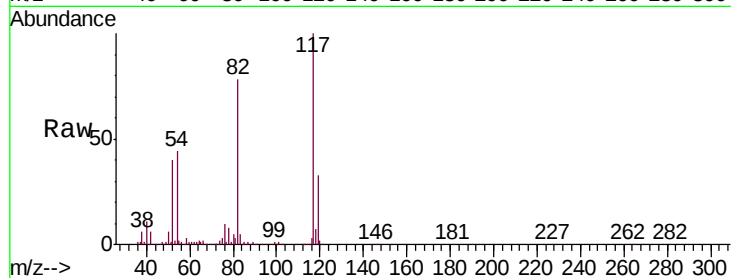




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034291.D
Acq: 14 Oct 2019 21:17

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 117 Resp: 1757174
Ion Ratio Lower Upper
117 100
82 76.7 58.2 87.4
119 33.1 23.7 35.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.213 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034291.D
Acq: 14 Oct 2019 21:17

Tgt Ion: 95 Resp: 1559394
Ion Ratio Lower Upper
95 100
174 56.3 45.1 67.7
175 4.0 3.3 4.9

