

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033354.D
 Acq On : 16 Mar 2019 6:25
 Operator : SY/AP
 Sample : K1827-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 18 07:52:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	749005	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1627223	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1878676	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1440911	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

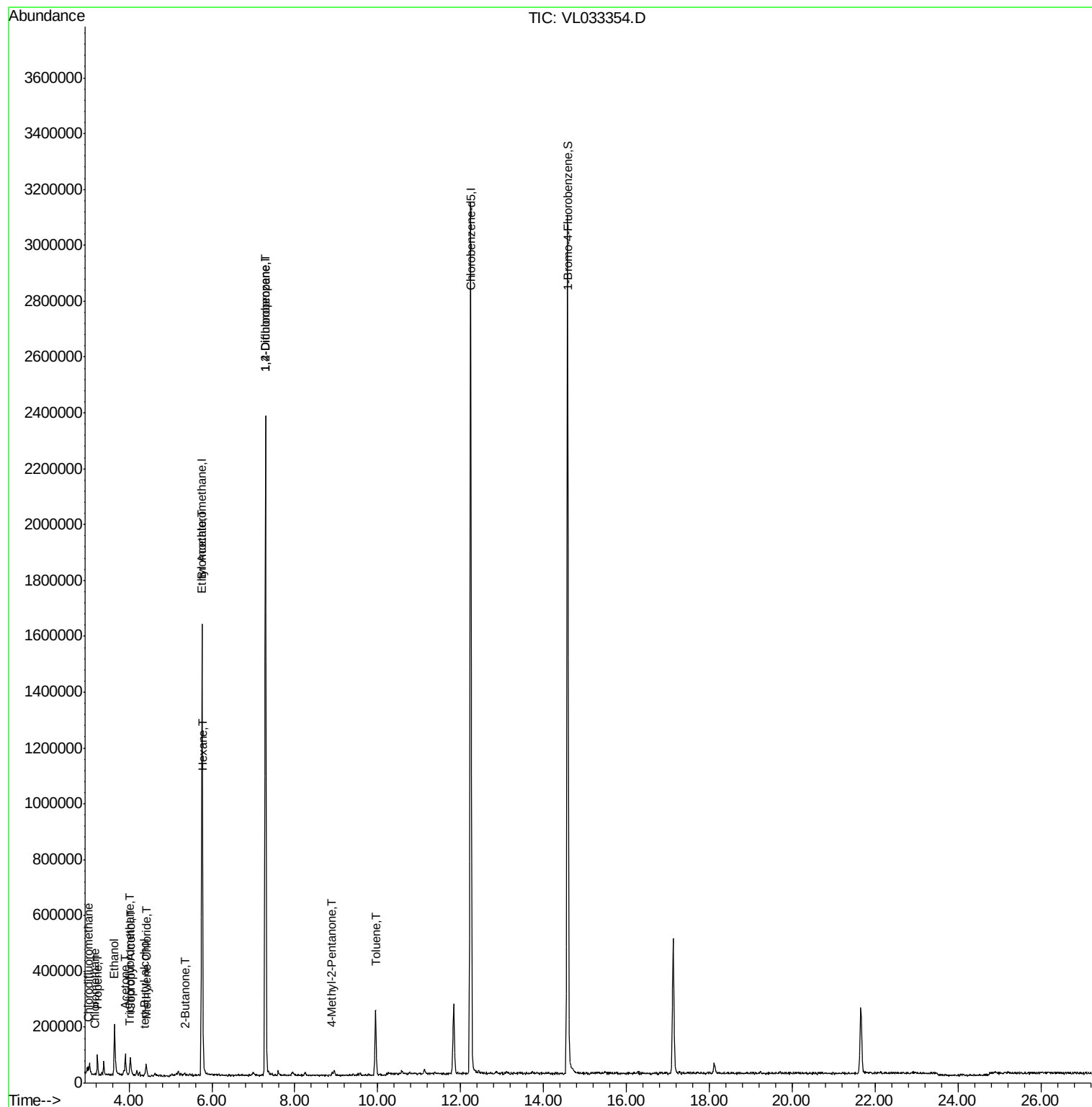
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	33969	0.395	ppbv #	83
4) Chloromethane	3.17	50	2202	0.047	ppbv #	85
9) Propene	3.24	41	17665	0.460	ppbv	94
11) Trichlorofluoromethane	4.00	101	2734	0.021	ppbv	93
13) Ethanol	3.65	45	199637	10.912	ppbv	99
15) Acetone	3.91	43	69583	0.598	ppbv	98
17) tert-Butyl alcohol	4.37	59	1317	0.080	ppbv #	74
19) Isopropyl Alcohol	4.03	45	35387	0.639	ppbv #	84
20) Methylene Chloride	4.41	84	9455	0.249	ppbv #	83
25) Ethyl Acetate	5.77	43	25528	0.151	ppbv	97
26) Hexane	5.78	57	12631	0.167	ppbv #	88
34) 2-Butanone	5.34	43	5200	0.049	ppbv #	54
39) 1,2-Dichloropropane	7.29	63	442862	8.121	ppbv #	24
50) 4-Methyl-2-Pentanone	8.89	43	3107	0.021	ppbv #	39
53) Toluene	9.95	91	164352	0.993	ppbv	99

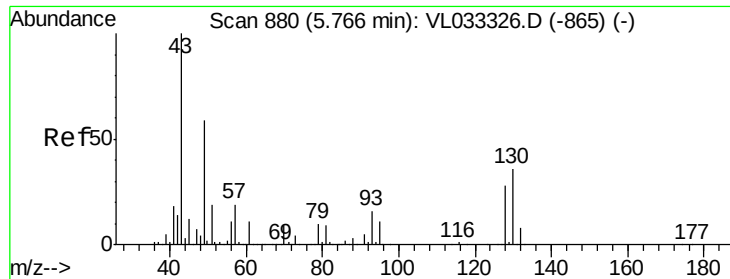
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

ClientSampled :

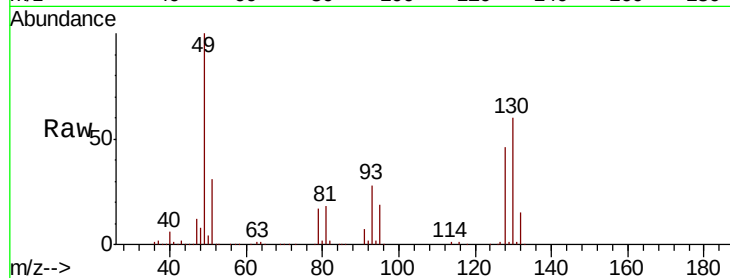
Tot Ion: 49 Resp: 749005

Ion Ratio Lower Upper

49 100

128 46.3 23.5 70.6

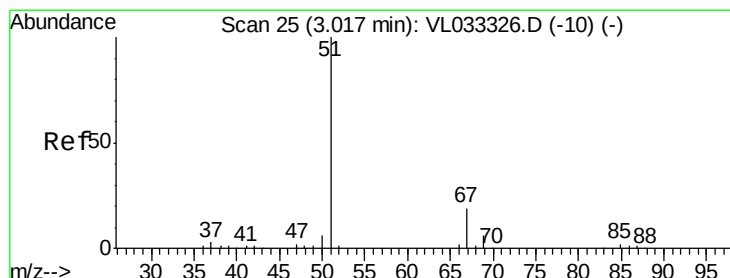
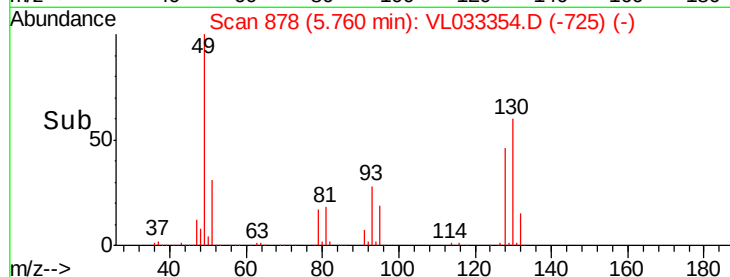
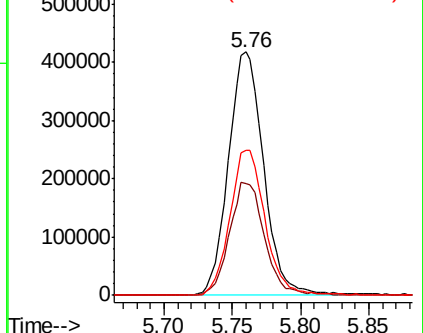
130 59.7 30.1 90.3



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



#3

Chlorodifluoromethane

Concen: 0.395 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033354.D

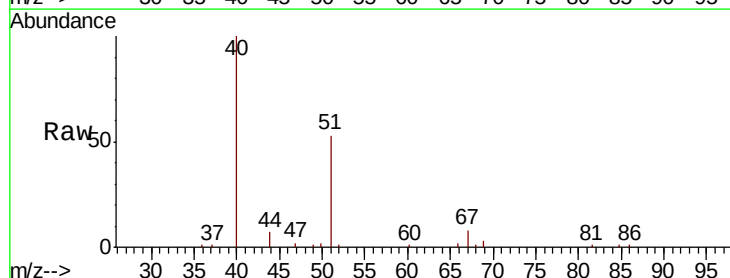
Acq: 16 Mar 2019 6:25

Tgt Ion: 51 Resp: 33969

Ion Ratio Lower Upper

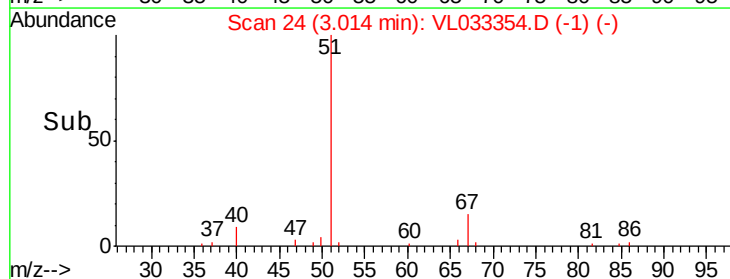
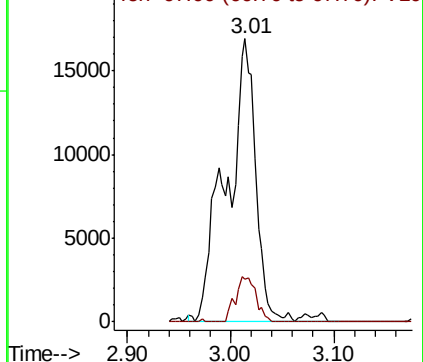
51 100

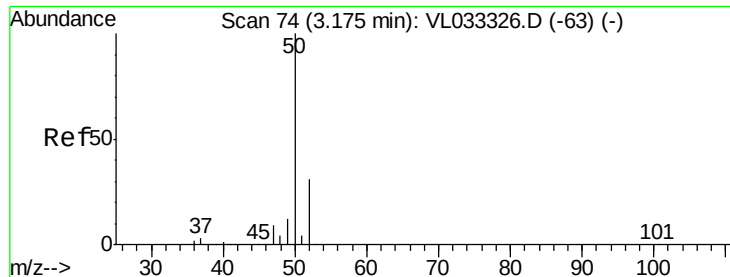
67 11.0 14.9 22.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

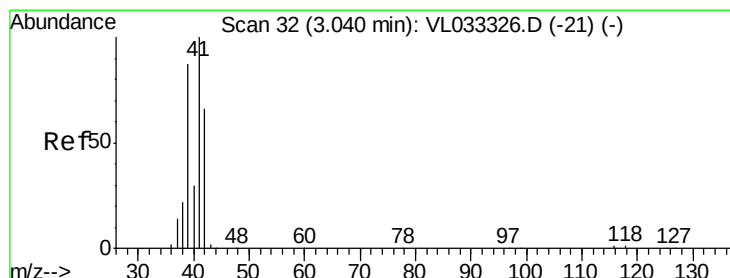
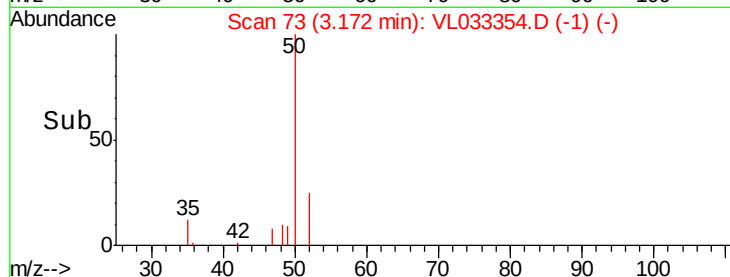
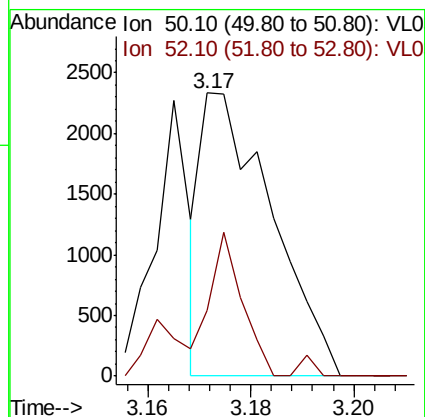
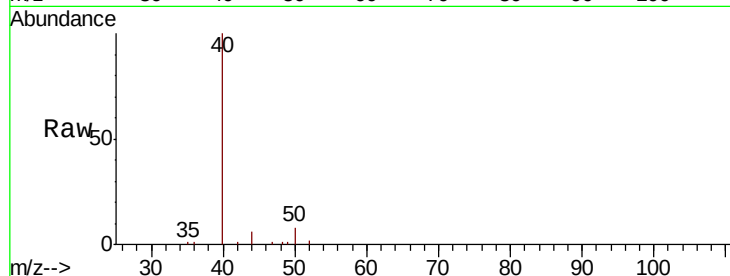
ClientSampleId :

Tot Ion: 50 Resp: 2202

Ion Ratio Lower Upper

50 100

52 23.3 25.0 37.6#



#9

Propene

Concen: 0.460 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033354.D

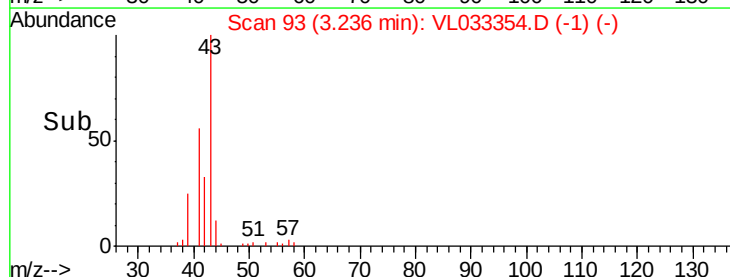
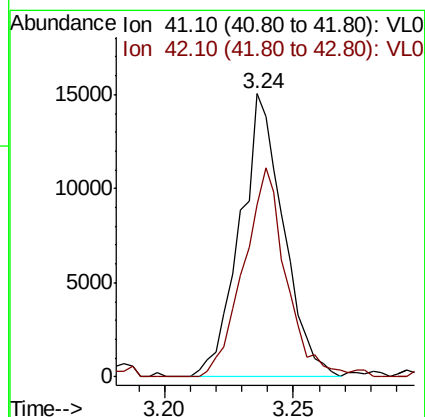
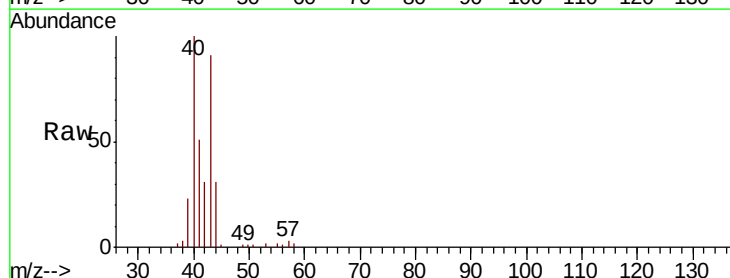
Acq: 16 Mar 2019 6:25

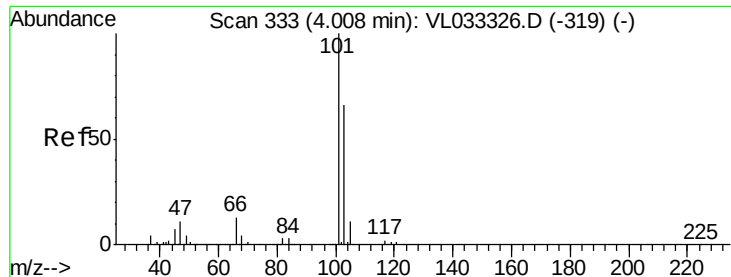
Tgt Ion: 41 Resp: 17665

Ion Ratio Lower Upper

41 100

42 73.7 55.2 82.8





#11

Trichlorofluoromethane

Concen: 0.021 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

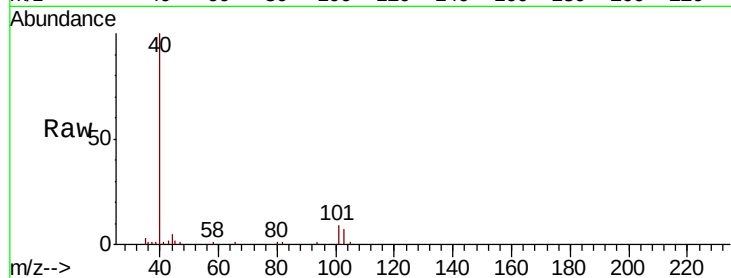
ClientSampleId :

Tot Ion:101 Resp: 2734

Ion Ratio Lower Upper

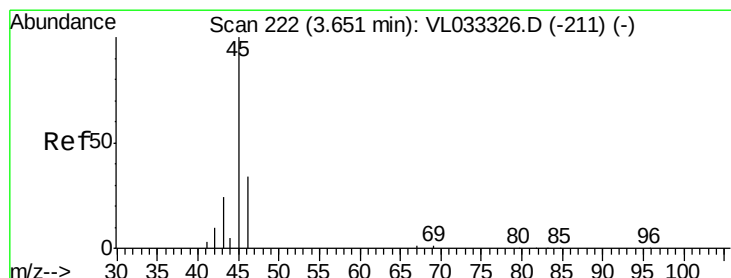
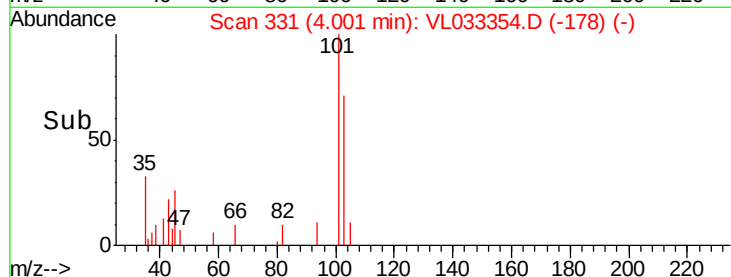
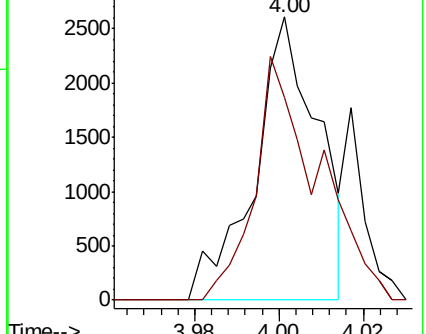
101 100

103 71.5 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 10.912 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033354.D

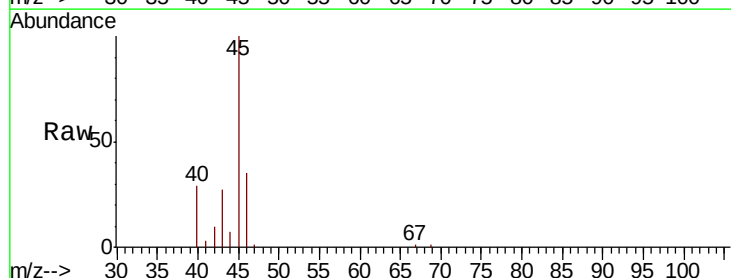
Acq: 16 Mar 2019 6:25

Tgt Ion: 45 Resp: 199637

Ion Ratio Lower Upper

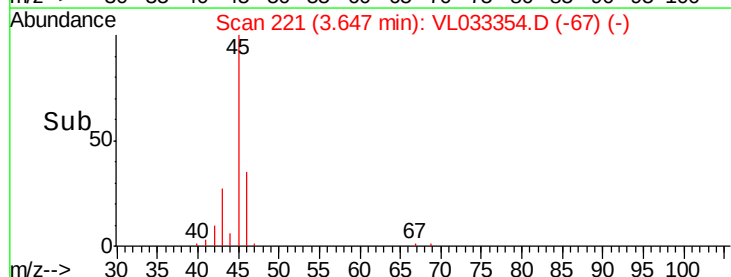
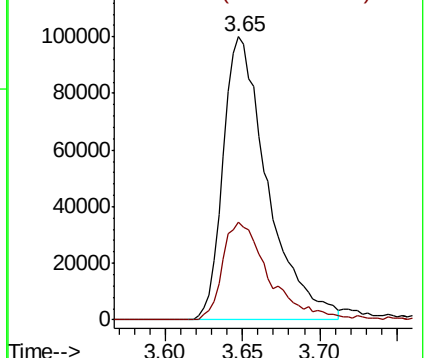
45 100

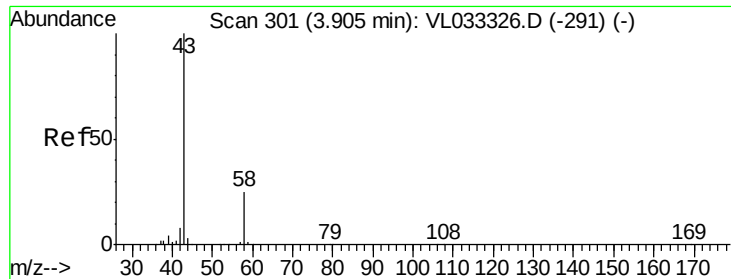
46 36.9 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.598 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

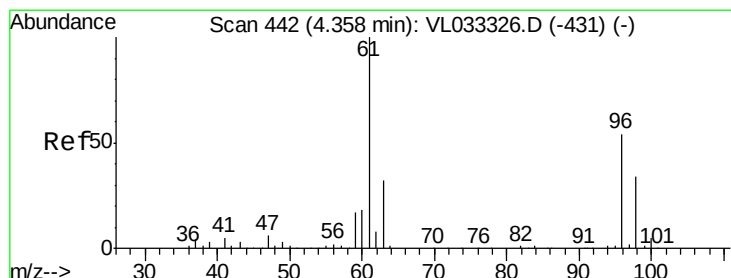
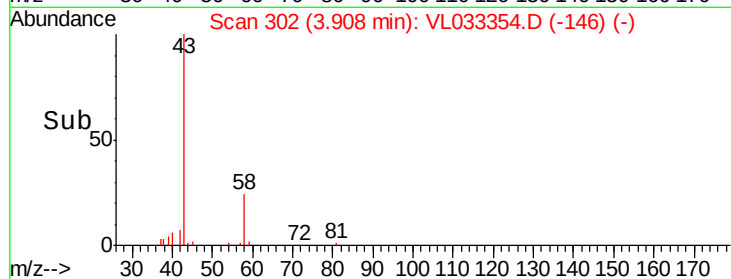
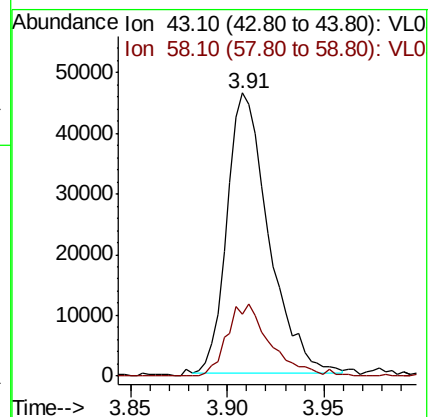
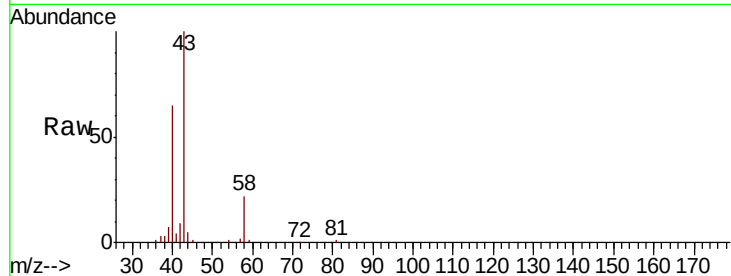
ClientSampleId :

Tot Ion: 43 Resp: 69583

Ion Ratio Lower Upper

43 100

58 26.5 20.4 30.6



#17

tert-Butyl alcohol

Concen: 0.080 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033354.D

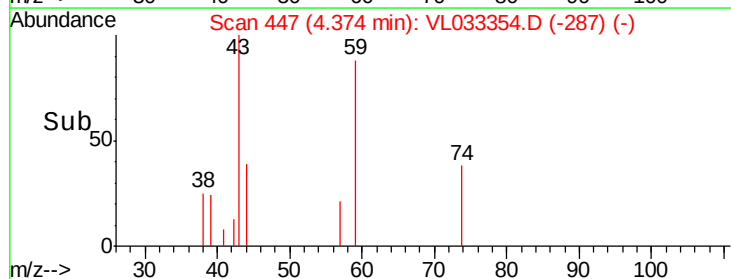
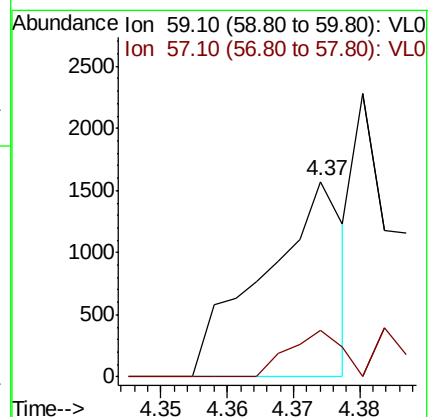
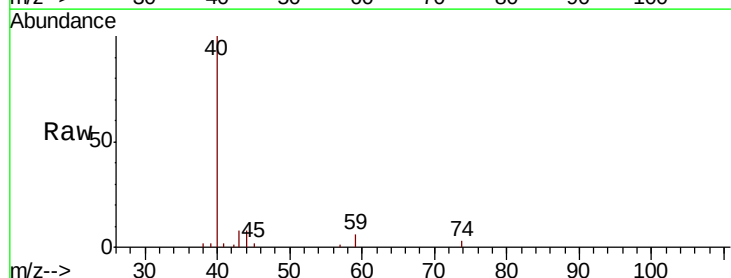
Acq: 16 Mar 2019 6:25

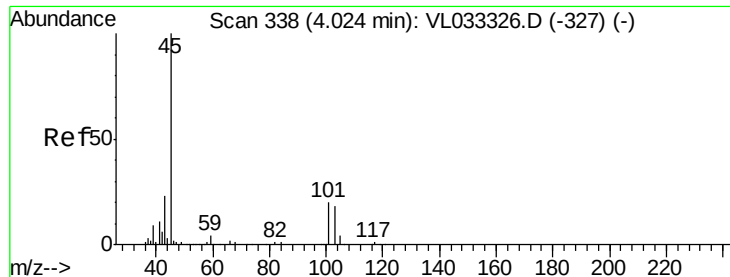
Tgt Ion: 59 Resp: 1317

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#

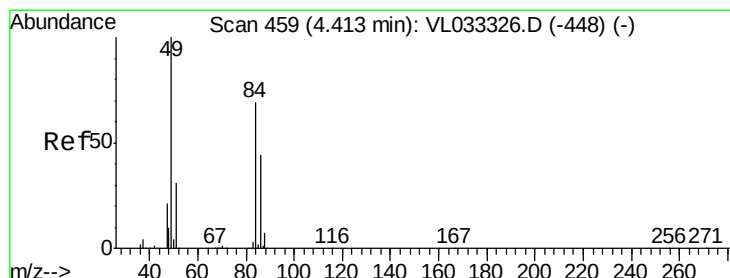
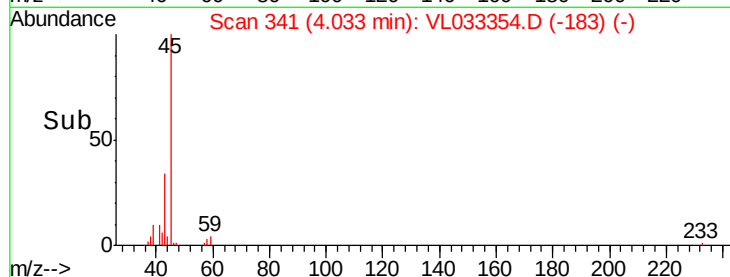
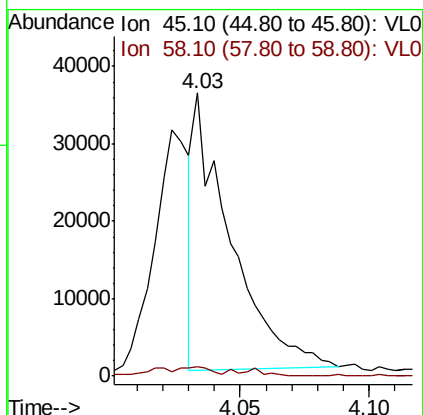
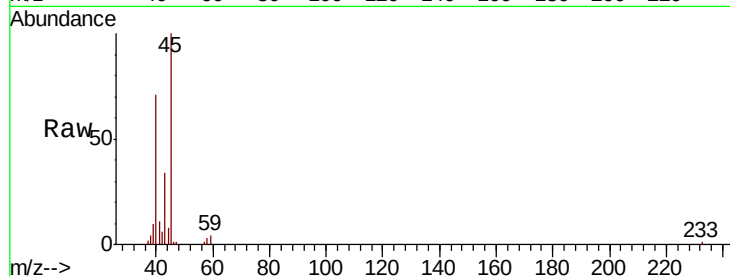




#19
Isopropyl Alcohol
Concen: 0.639 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033354.D
Acq: 16 Mar 2019 6:25

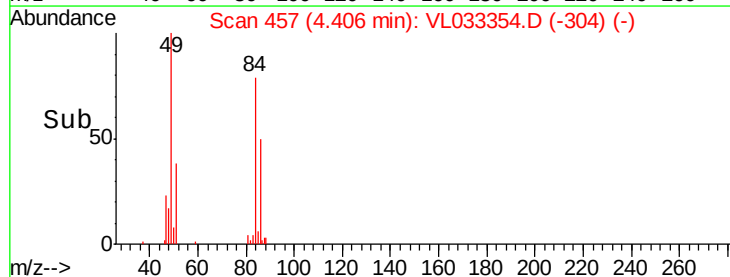
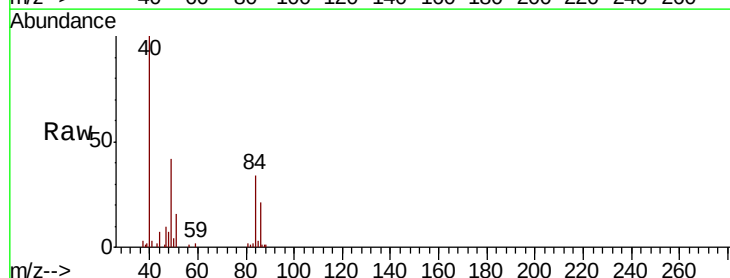
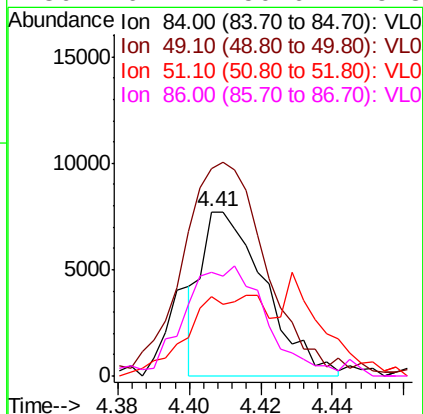
Instrument :
MSVOA_L
ClientSampleId :

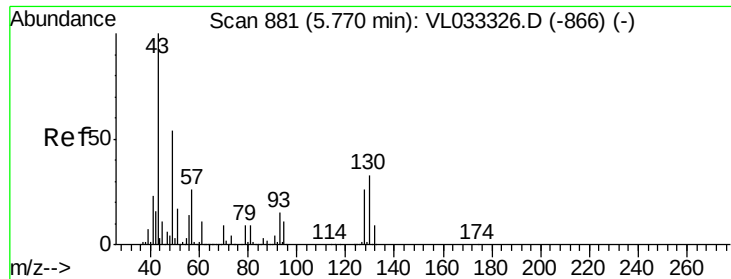
Tot Ion: 45 Resp: 35387
Ion Ratio Lower Upper
45 100
58 7.6 1.5 2.3#



#20
Methylene Chloride
Concen: 0.249 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033354.D
Acq: 16 Mar 2019 6:25

Tgt Ion: 84 Resp: 9455
Ion Ratio Lower Upper
84 100
49 118.8 115.4 173.0
51 26.6 35.8 53.6#
86 61.4 50.6 75.8

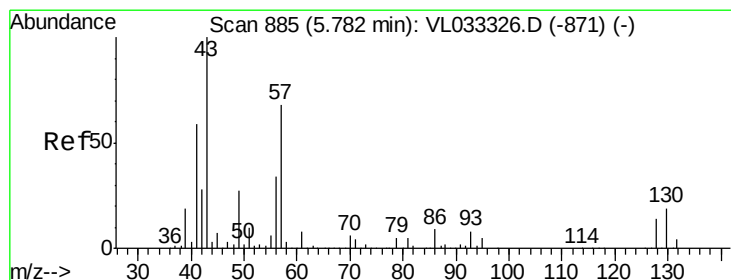
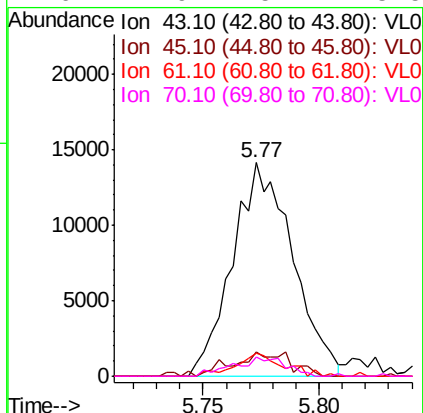
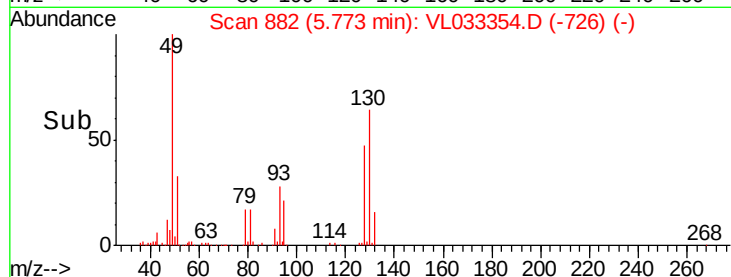
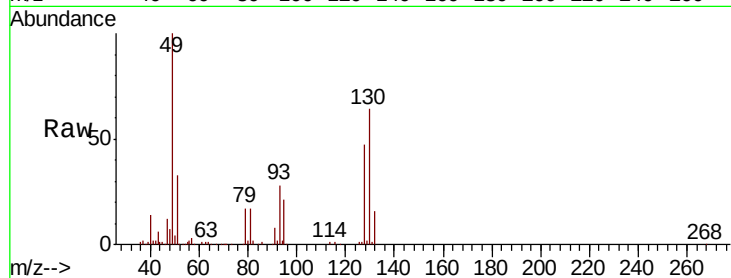




#25
Ethyl Acetate
Concen: 0.151 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033354.D
Acq: 16 Mar 2019 6:25

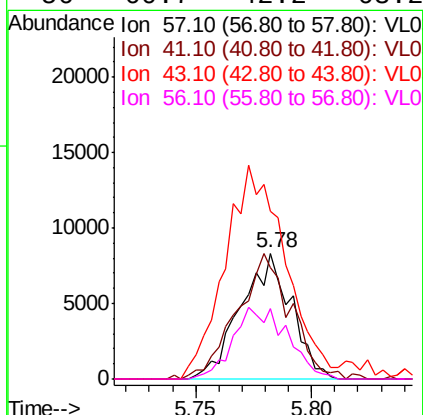
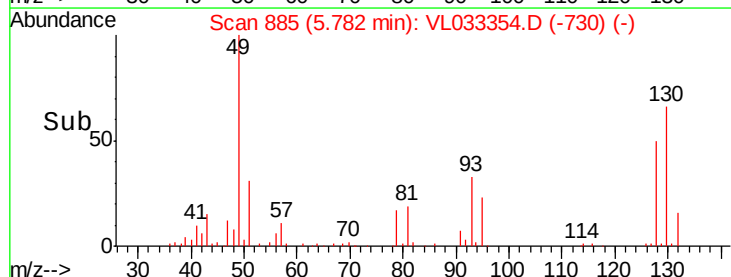
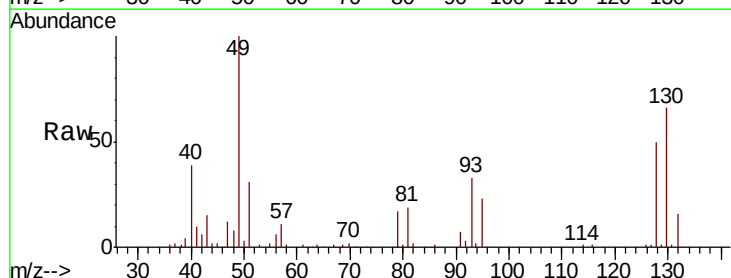
Instrument :
MSVOA_L
ClientSampleId :

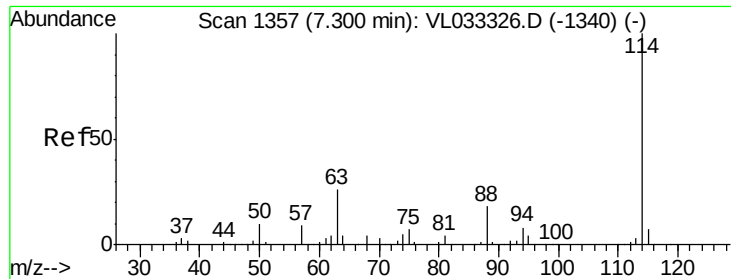
Tot Ion:	43	Resp:	25528
Ion	Ratio	Lower	Upper
43	100		
45	11.3	7.9	11.9
61	8.5	7.4	11.2
70	7.9	5.7	8.5



#26
Hexane
Concen: 0.167 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033354.D
Acq: 16 Mar 2019 6:25

Tgt Ion:	57	Resp:	12631
Ion	Ratio	Lower	Upper
57	100		
41	107.3	70.5	105.7#
43	213.4	181.8	272.8
56	60.7	42.2	63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

ClientSampleId :

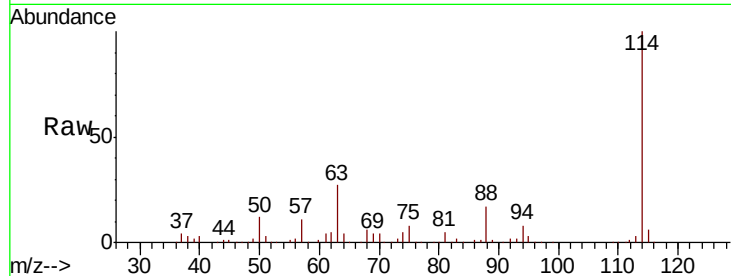
Tot Ion:114 Resp: 1627223

Ion Ratio Lower Upper

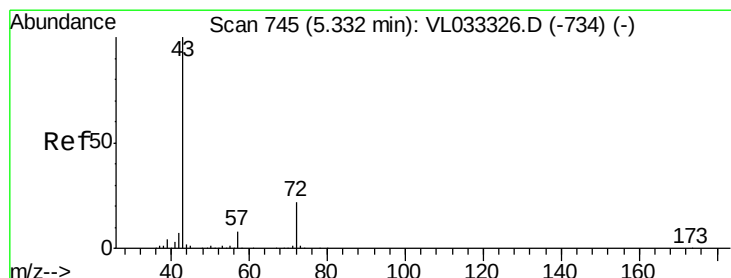
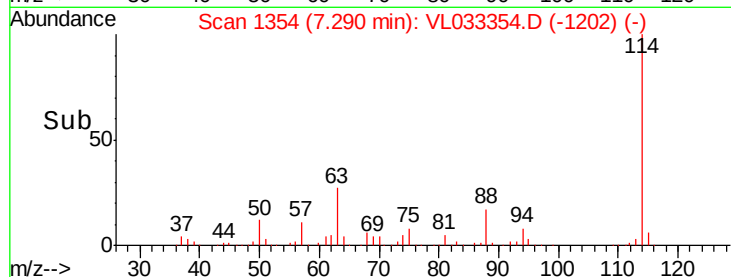
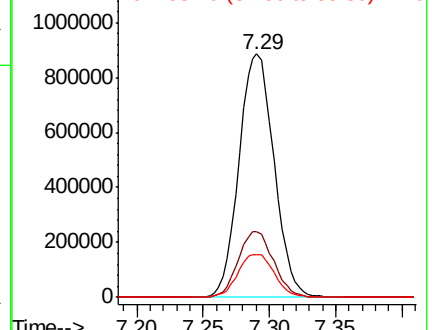
114 100

63 27.3 21.4 32.2

88 18.3 14.5 21.7



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: 0.049 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.00 min

Lab File: VL033354.D

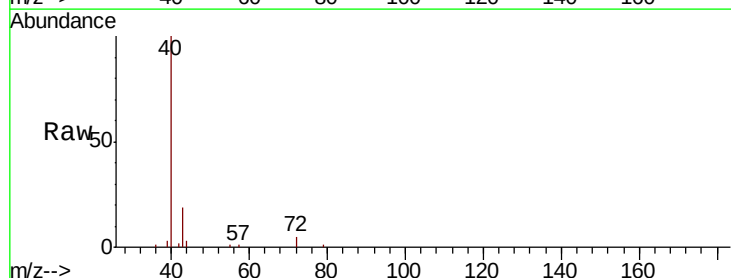
Acq: 16 Mar 2019 6:25

Tgt Ion: 43 Resp: 5200

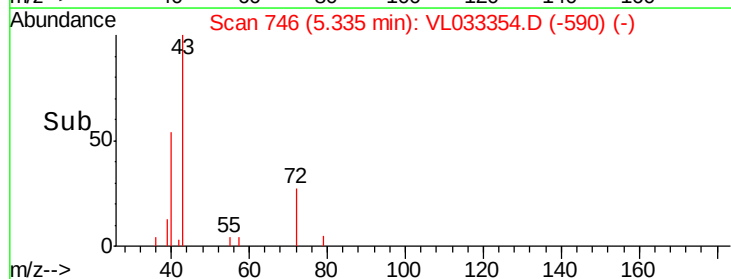
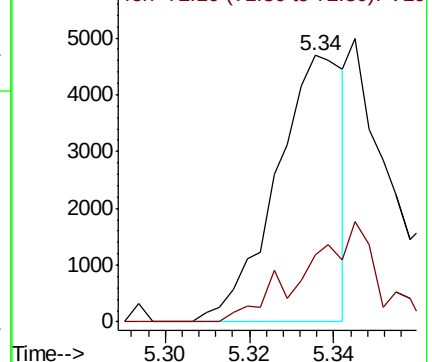
Ion Ratio Lower Upper

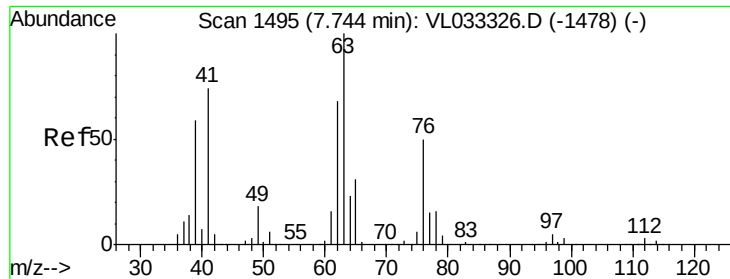
43 100

72 0.0 17.7 26.5#



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

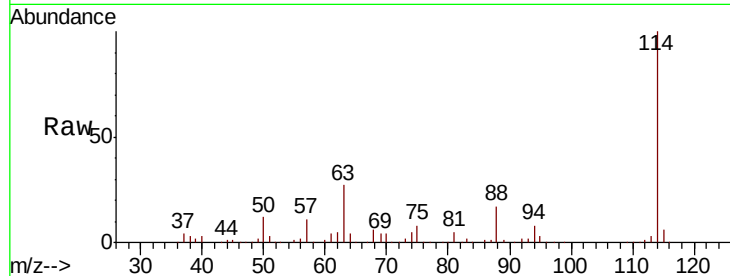




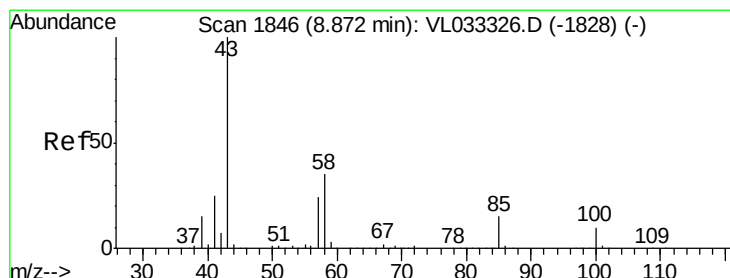
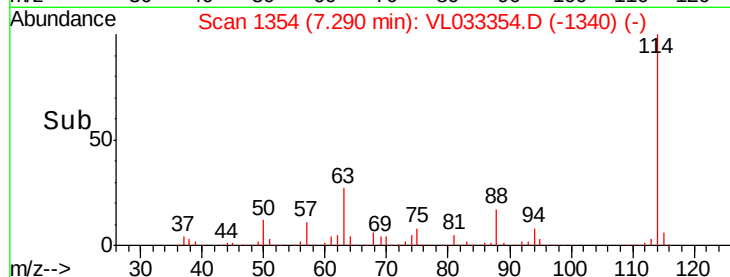
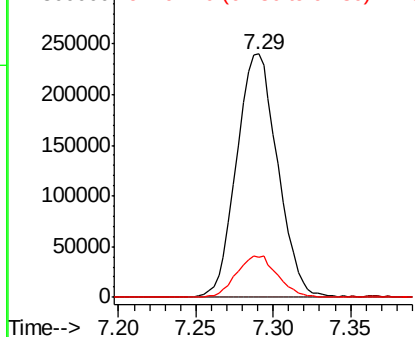
#39
 1,2-Dichloropropane
 Concen: 8.121 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.45 min
 Lab File: VL033354.D
 Acq: 16 Mar 2019 6:25

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 63 Resp: 442862
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 16.7 54.7 82.1#

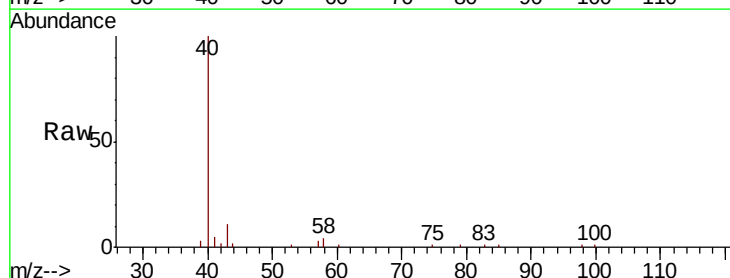


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

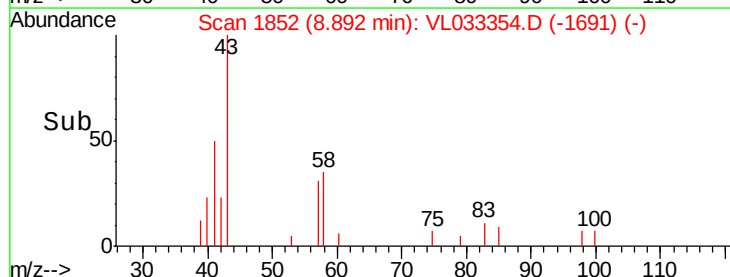
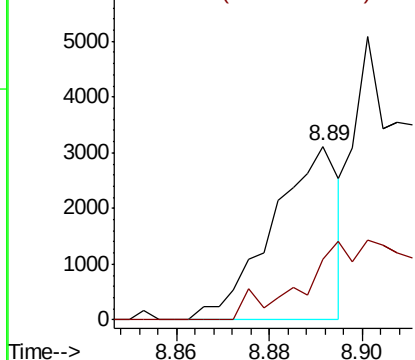


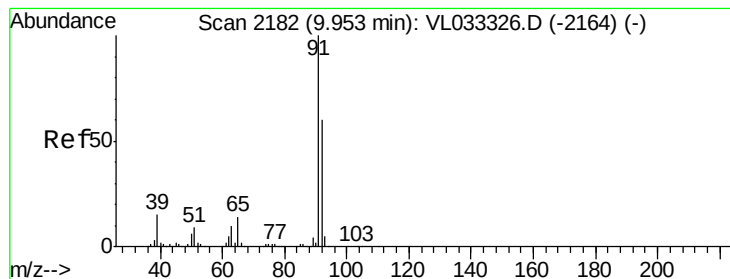
#50
 4-Methyl-2-Pentanone
 Concen: 0.021 ppbv
 RT: 8.89 min Scan# 1852
 Delta R.T. 0.02 min
 Lab File: VL033354.D
 Acq: 16 Mar 2019 6:25

Tgt Ion: 43 Resp: 3107
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0





#53

Toluene

Concen: 0.993 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

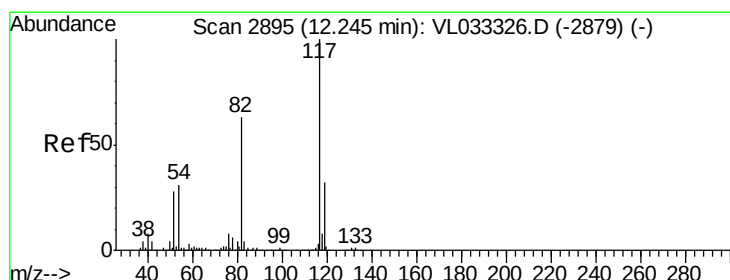
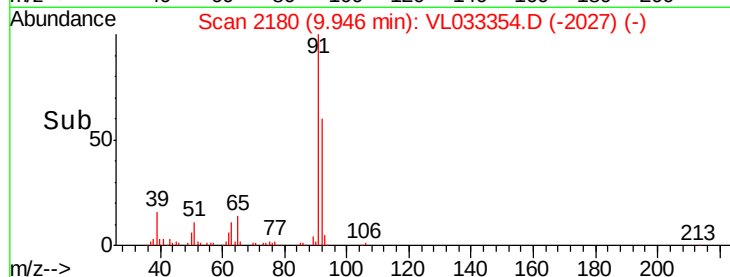
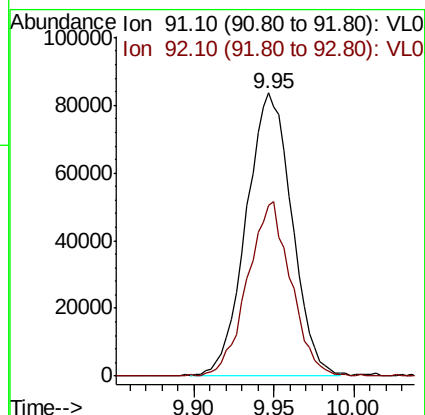
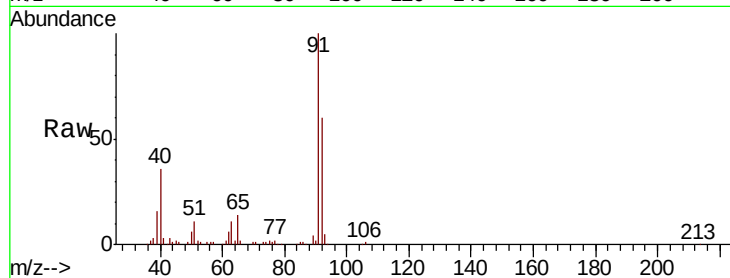
ClientSampleId :

Tot Ion: 91 Resp: 164352

Ion Ratio Lower Upper

91 100

92 58.4 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

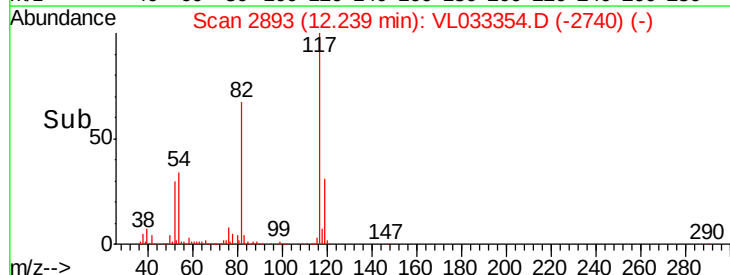
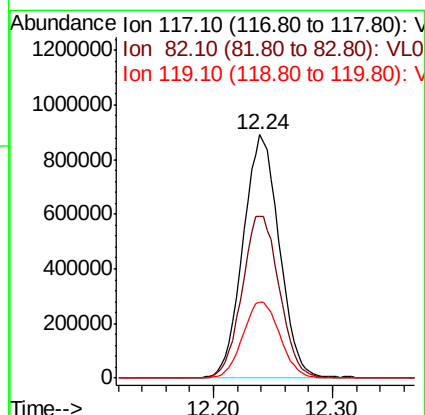
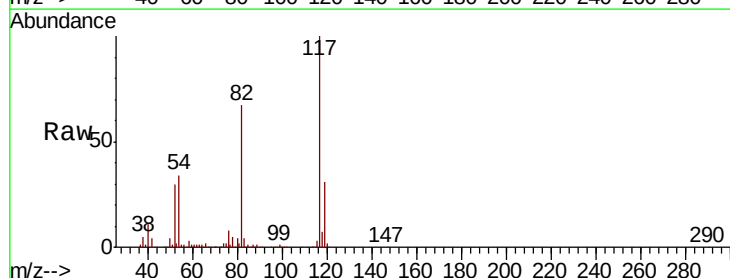
Tgt Ion: 117 Resp: 1878676

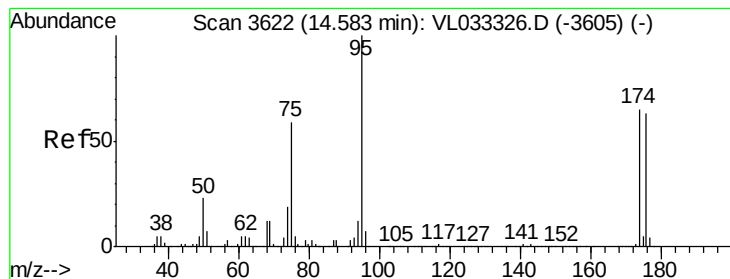
Ion Ratio Lower Upper

117 100

82 68.9 53.4 80.2

119 32.2 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.351 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033354.D

Acq: 16 Mar 2019 6:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 1440911

Ion Ratio Lower Upper

95 100

174 64.1 51.5 77.3

175 4.7 3.8 5.6

