

Data File : VL034616.D
Acq On : 7 Feb 2020 10:52
Operator : SY/AP
Sample : L1435-08DL 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-8DL

Quant Time: Feb 08 01:42:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	871493	10.00	ppbv	0.07
33) 1,4-Difluorobenzene	7.26	114	1819529	10.00	ppbv	0.07
55) Chlorobenzene-d5	12.20	117	1844299	10.00	ppbv	0.09

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	1624982	10.43	ppbv	0.09
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	26831	0.140	ppbv #	80
3) Chlorodifluoromethane	2.97	51	30772	0.292	ppbv #	68
4) Chloromethane	3.16	50	6754	0.105	ppbv	89
9) Propene	3.03	41	11977	0.292	ppbv	85
11) Trichlorofluoromethane	3.99	101	11359	0.065	ppbv #	72
13) Ethanol	3.64	45	3520131	320.523	ppbv	98
15) Acetone	3.88	43	711272	5.553	ppbv	99
16) 1,3-Butadiene	3.33	39	7306	0.144	ppbv #	14
19) Isopropyl Alcohol	4.01	45	493579	6.603	ppbv #	97
20) Methylene Chloride	4.38	84	32257	0.661	ppbv	90
25) Ethyl Acetate	5.75	43	45566	0.220	ppbv #	97
26) Hexane	5.75	57	21791	0.251	ppbv #	80
34) 2-Butanone	5.31	43	4984	0.038	ppbv #	35
39) 1,2-Dichloropropane	7.26	63	538867	8.033	ppbv #	20
53) Toluene	9.92	91	42324	0.238	ppbv #	42

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

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Misc : 400ml/MSV0A_L

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MSVOA_L
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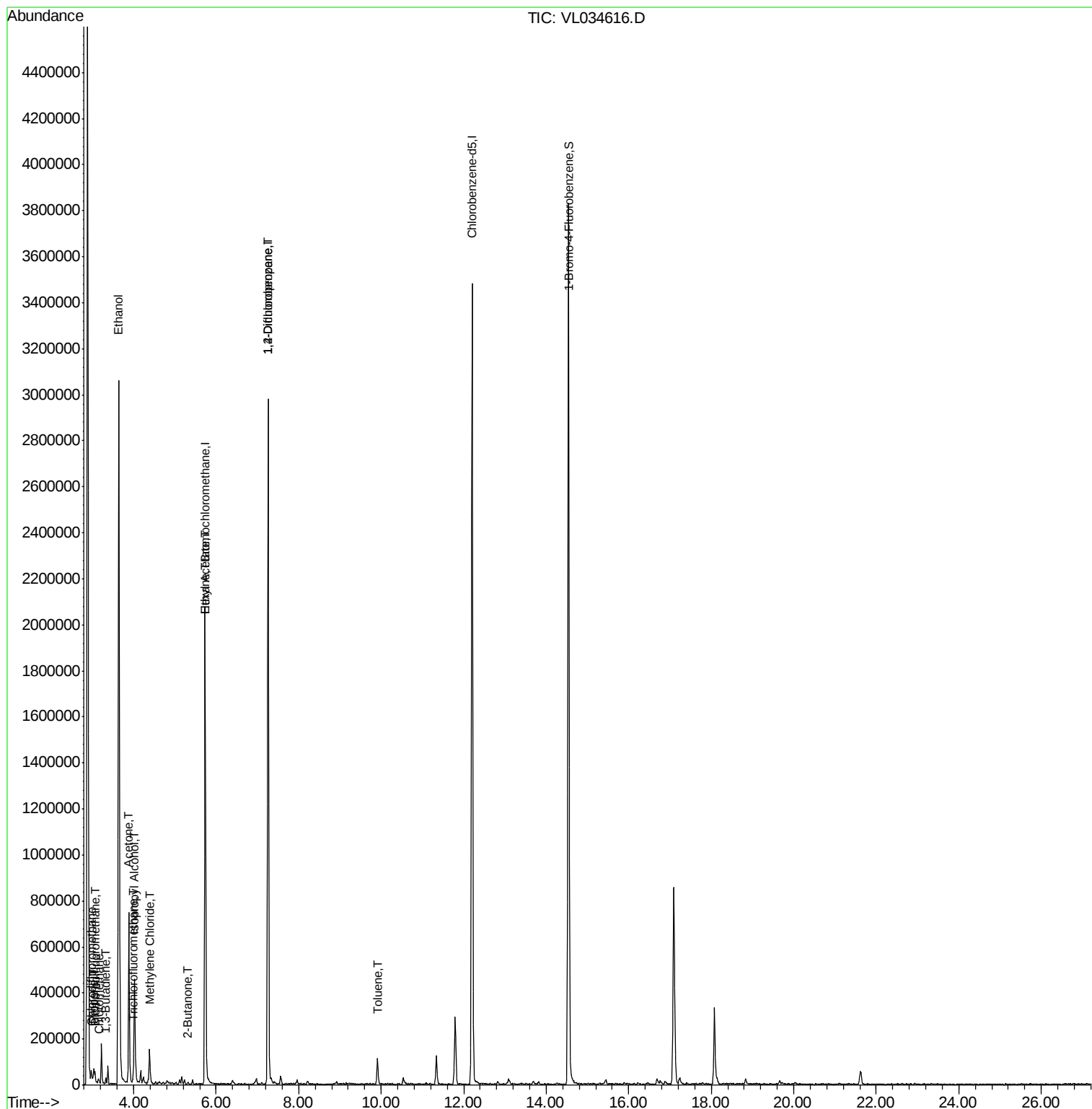
Quant Time: Feb 08 01:42:54 2020

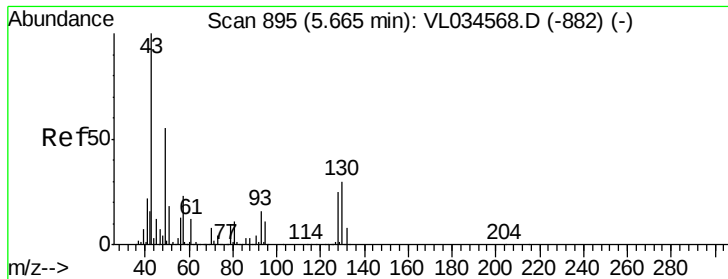
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 916

Delta R.T. 0.07 min

Lab File: VL034616.D

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Instrument :

MSVOA_L

ClientSampleId :

IA-8DL

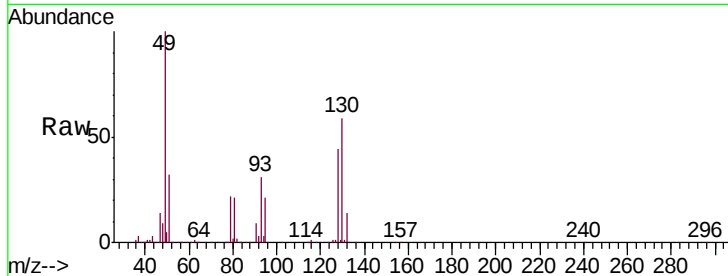
Tgt Ion: 49 Resp: 871493

Ion Ratio Lower Upper

49 100

128 46.6 22.7 68.1

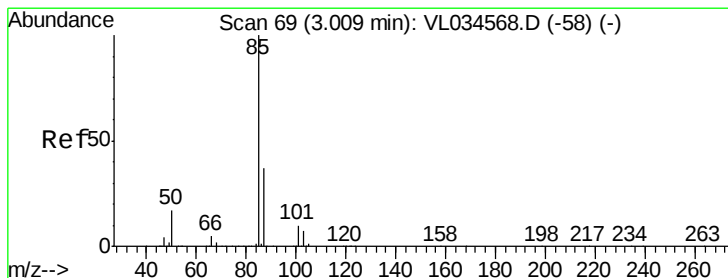
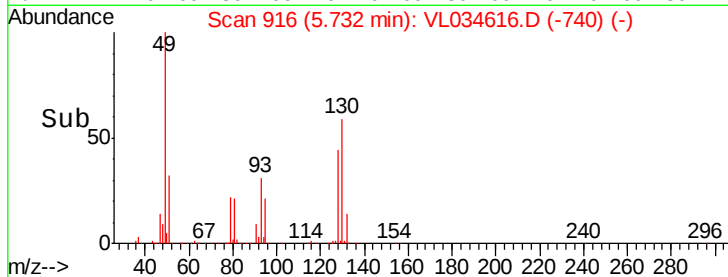
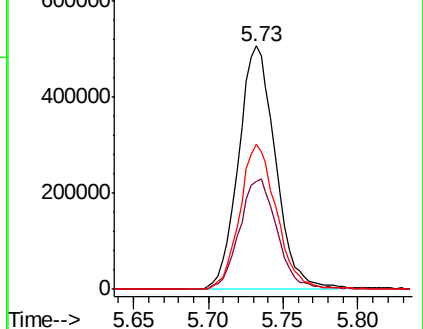
130 60.1 28.6 85.8



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: 0.140 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.05 min

Lab File: VL034616.D

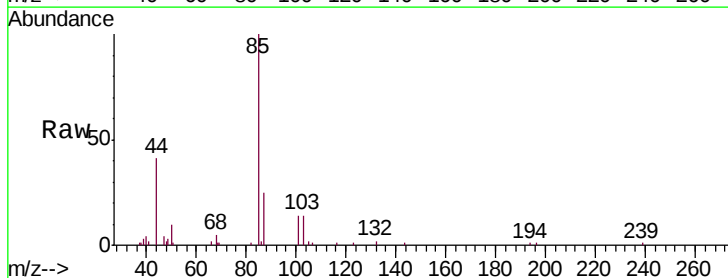
Acq: 7 Feb 2020 10:52

Tgt Ion: 85 Resp: 26831

Ion Ratio Lower Upper

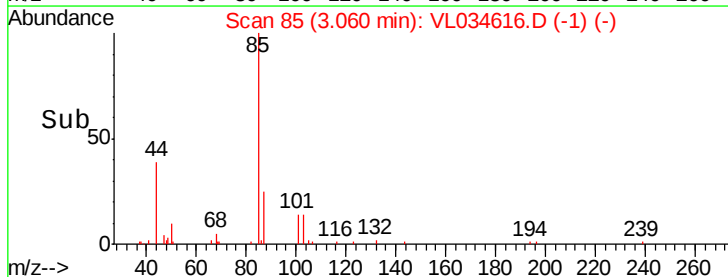
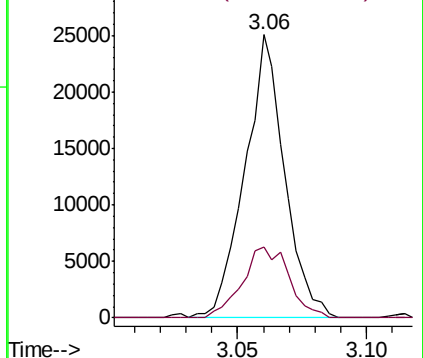
85 100

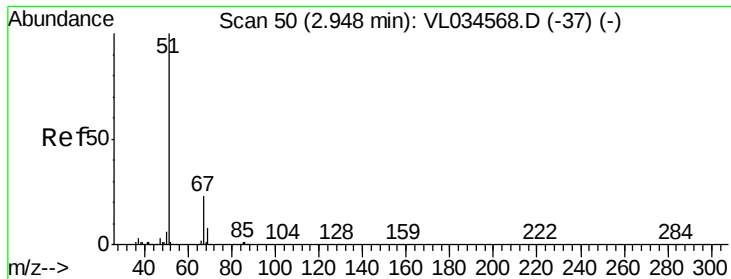
87 25.2 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.292 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.03 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

Instrument :

MSVOA_L

ClientSampleId :

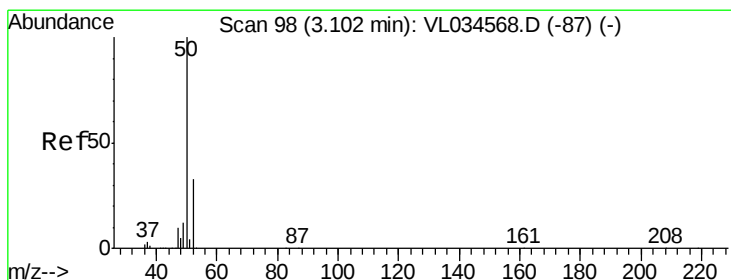
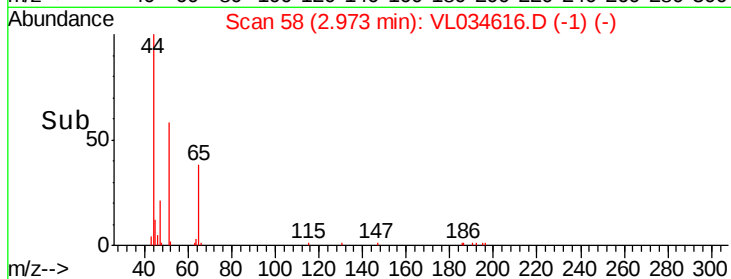
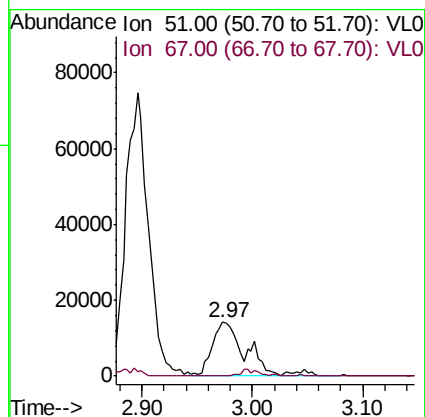
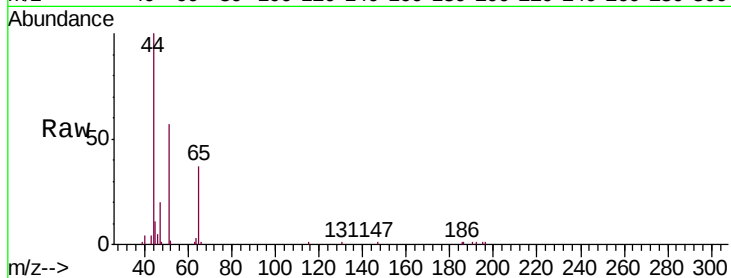
IA-8DL

Tgt Ion: 51 Resp: 30772

Ion Ratio Lower Upper

51 100

67 7.0 17.8 26.8#



#4

Chloromethane

Concen: 0.105 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.06 min

Lab File: VL034616.D

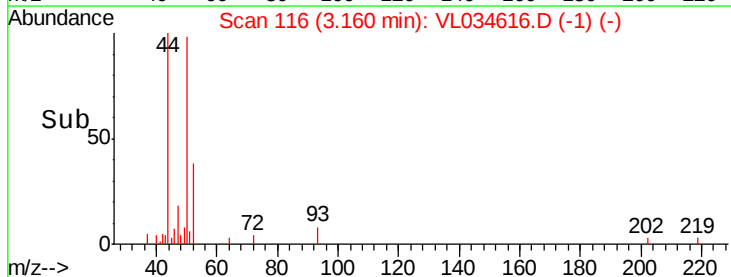
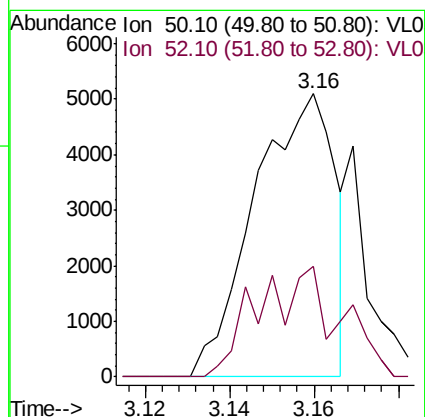
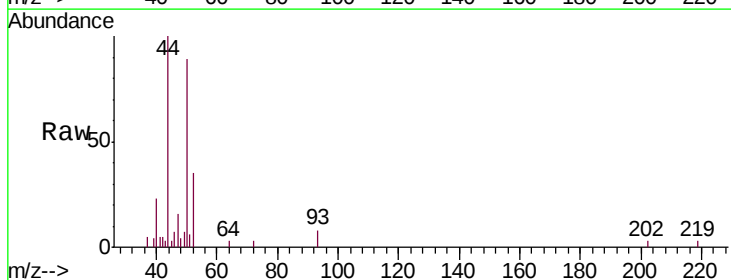
Acq: 7 Feb 2020 10:52

Tgt Ion: 50 Resp: 6754

Ion Ratio Lower Upper

50 100

52 39.2 26.6 39.8





#9

Propene

Concen: 0.292 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.06 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

Instrument :

MSVOA_L

ClientSampleId :

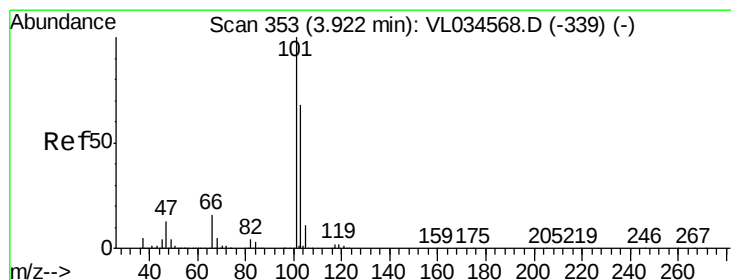
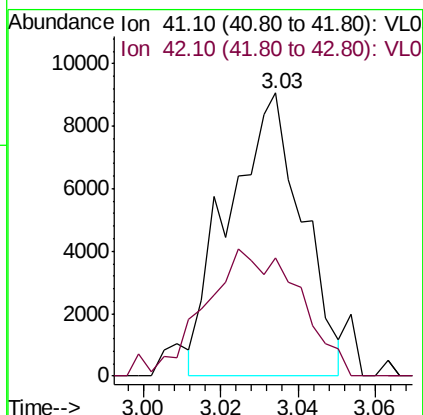
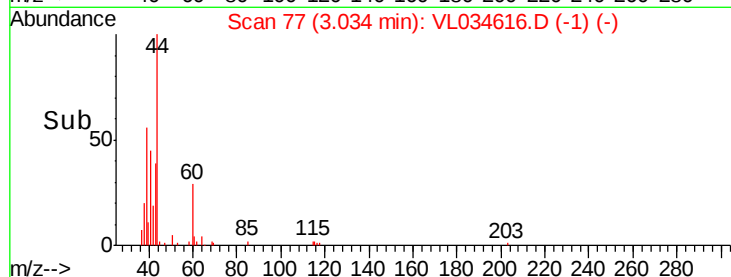
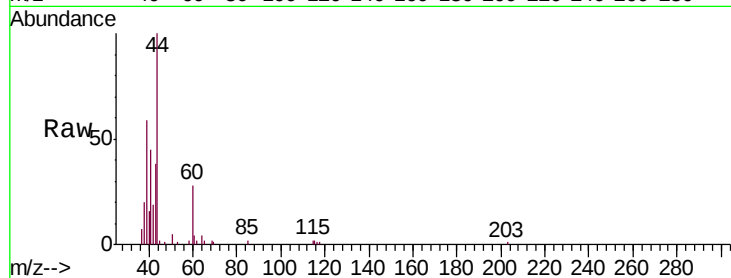
IA-8DL

Tgt Ion: 41 Resp: 11977

Ion Ratio Lower Upper

41 100

42 58.6 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.065 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.06 min

Lab File: VL034616.D

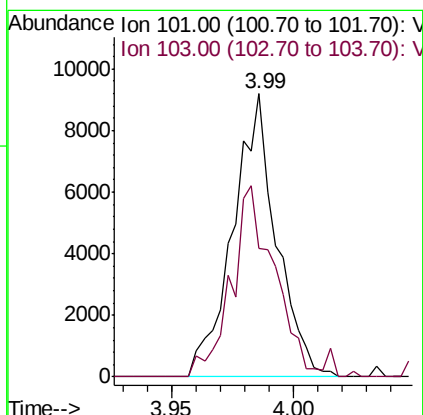
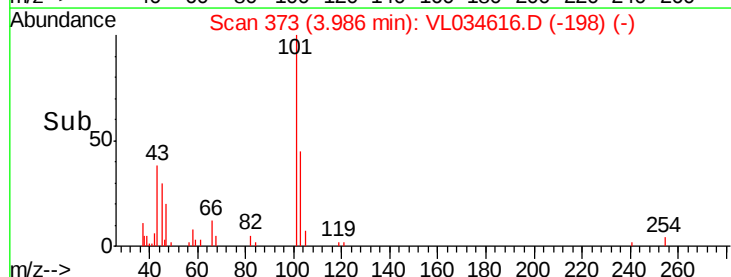
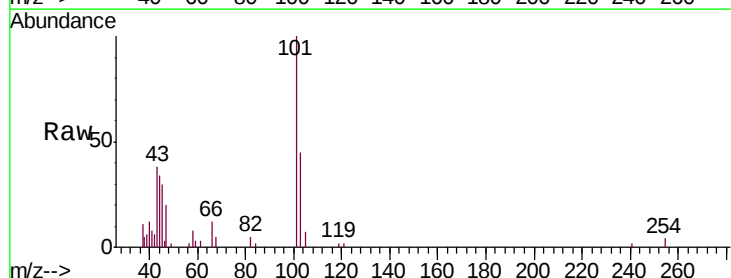
Acq: 7 Feb 2020 10:52

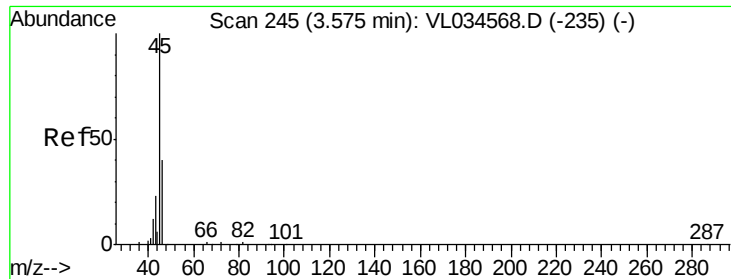
Tgt Ion: 101 Resp: 11359

Ion Ratio Lower Upper

101 100

103 45.3 54.4 81.6#

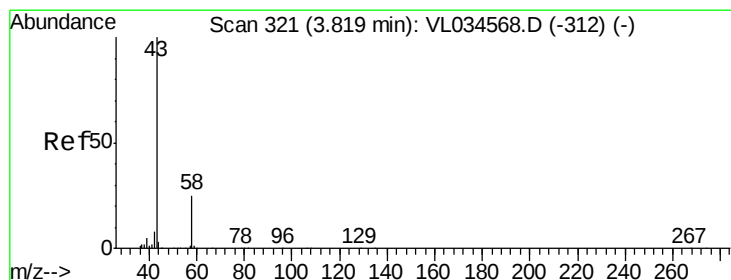
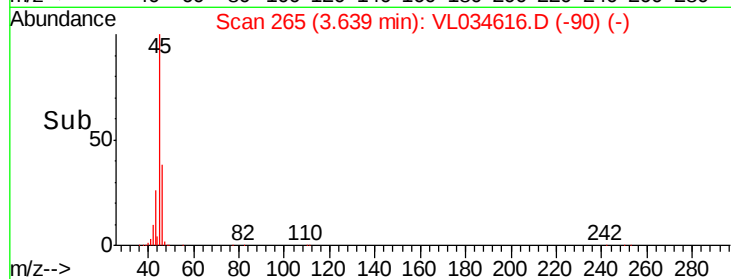
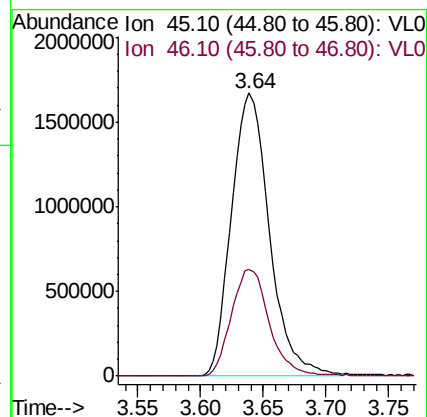
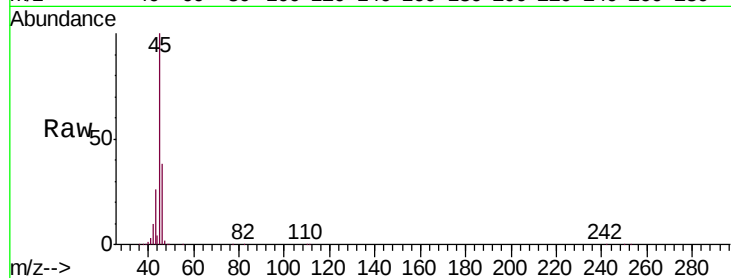




#13
Ethanol
Concen: 320.523 ppbv
RT: 3.64 min Scan# 265
Delta R.T. 0.06 min
Lab File: VL034616.D
Acq: 7 Feb 2020 10:52

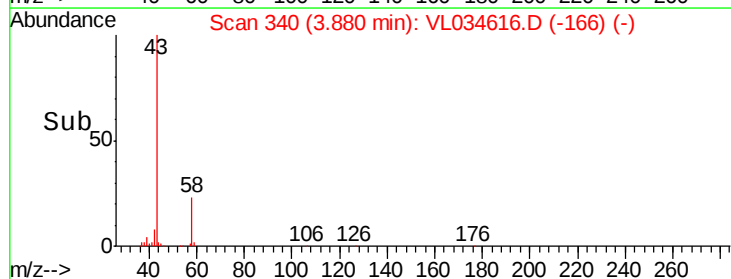
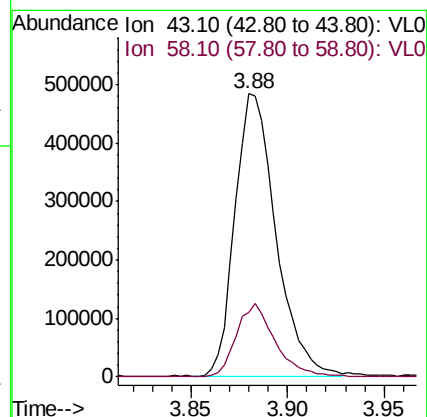
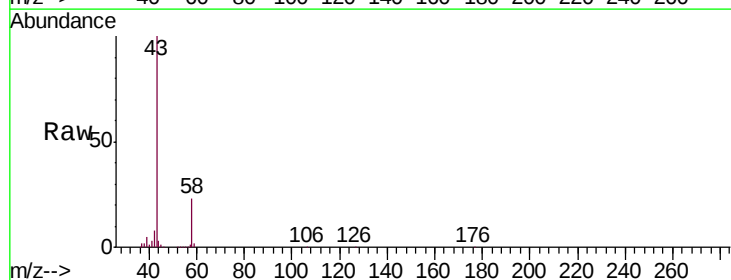
Instrument :
MSVOA_L
ClientSampleId :
IA-8DL

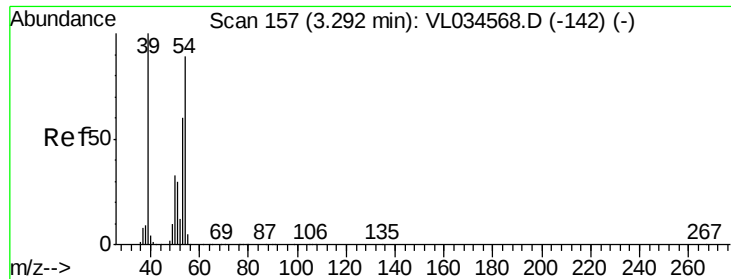
Tgt Ion: 45 Resp: 3520131
Ion Ratio Lower Upper
45 100
46 37.9 14.8 59.2



#15
Acetone
Concen: 5.553 ppbv
RT: 3.88 min Scan# 340
Delta R.T. 0.06 min
Lab File: VL034616.D
Acq: 7 Feb 2020 10:52

Tgt Ion: 43 Resp: 711272
Ion Ratio Lower Upper
43 100
58 24.7 20.3 30.5





#16

1,3-Butadiene

Concen: 0.144 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.04 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

Instrument :

MSVOA_L

ClientSampleId :

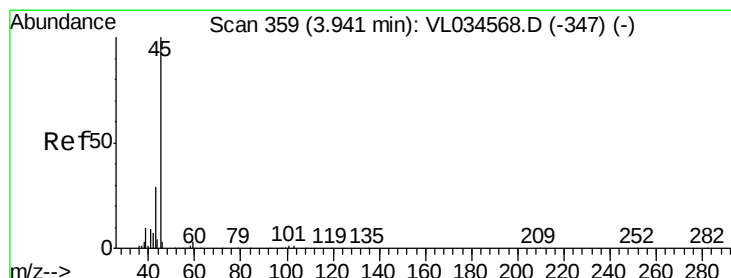
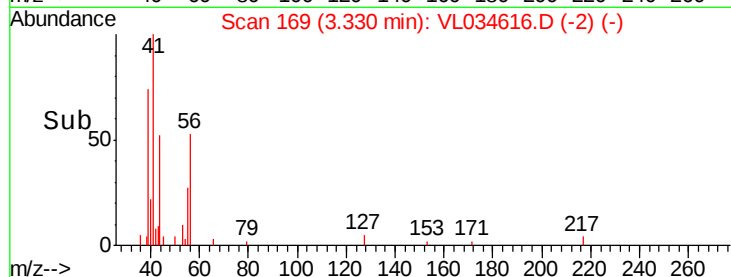
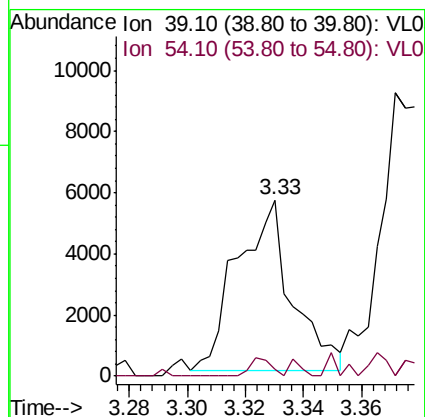
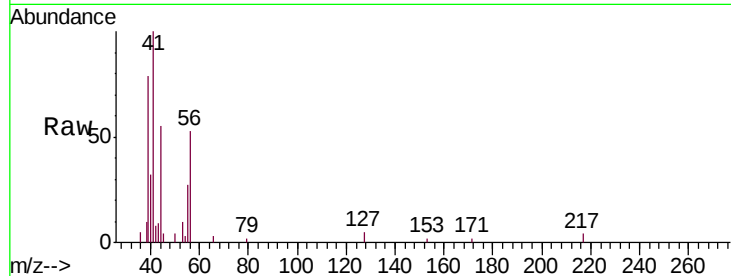
IA-8DL

Tgt Ion: 39 Resp: 7306

Ion Ratio Lower Upper

39 100

54 6.1 66.7 100.1#



#19

Isopropyl Alcohol

Concen: 6.603 ppbv

RT: 4.01 min Scan# 382

Delta R.T. 0.07 min

Lab File: VL034616.D

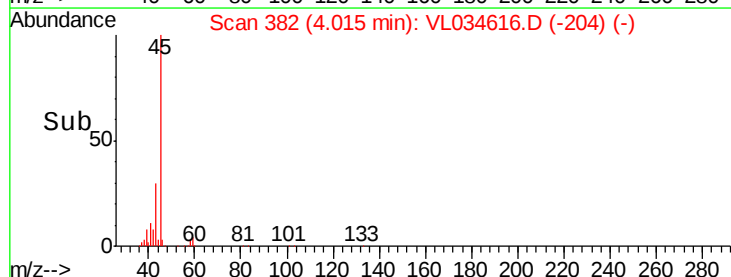
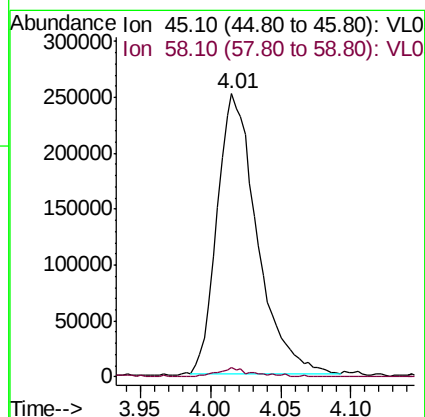
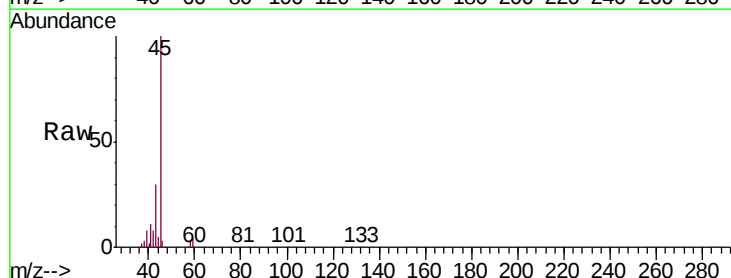
Acq: 7 Feb 2020 10:52

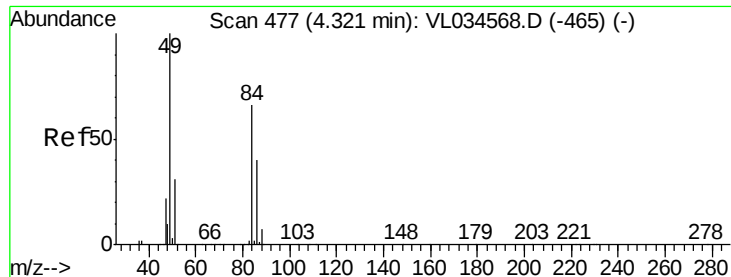
Tgt Ion: 45 Resp: 493579

Ion Ratio Lower Upper

45 100

58 3.2 1.7 2.5#

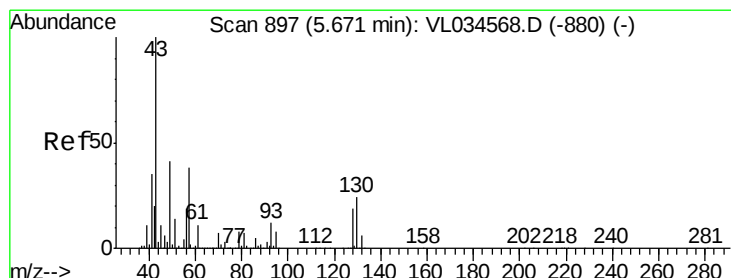
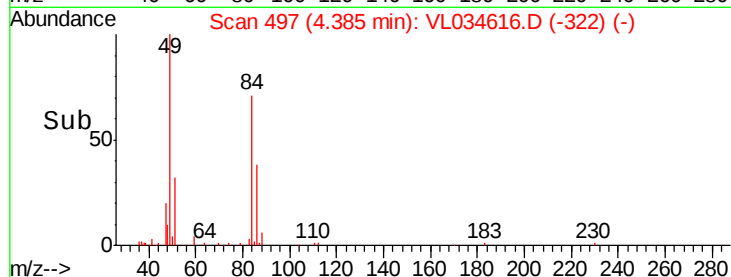
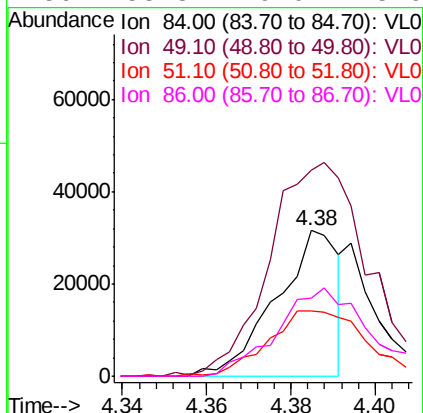
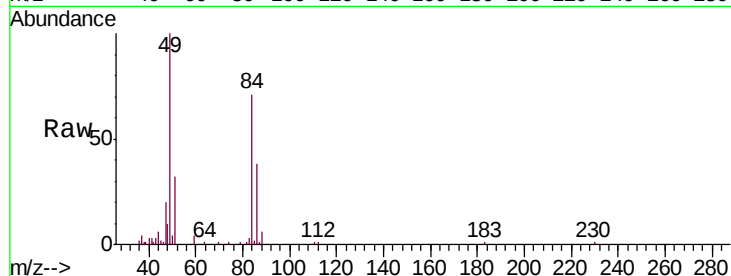




#20
Methylene Chloride
Concen: 0.661 ppbv
RT: 4.38 min Scan# 497
Delta R.T. 0.06 min
Lab File: VL034616.D
Acq: 7 Feb 2020 10:52

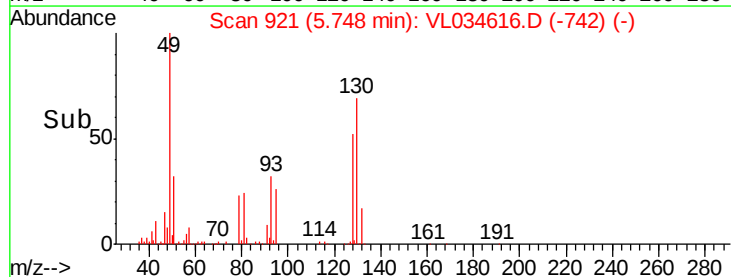
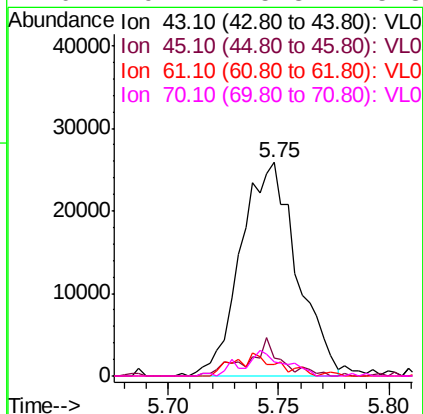
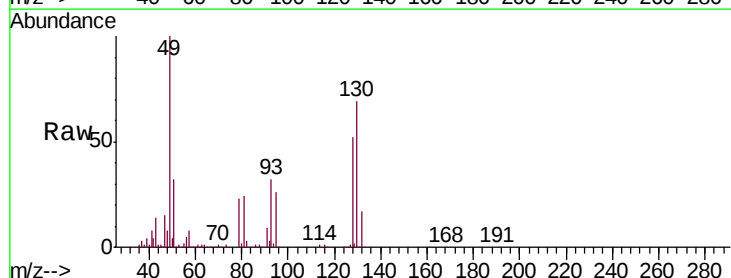
Instrument :
MSVOA_L
ClientSampleId :
IA-8DL

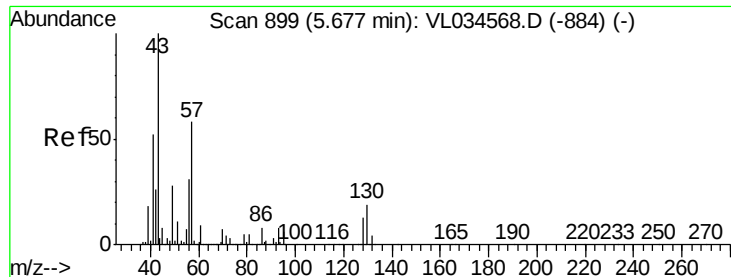
Tgt Ion:	84	Resp:	32257
Ion	Ratio	Lower	Upper
84	100		
49	139.6	122.4	183.6
51	43.4	38.6	57.8
86	53.8	49.0	73.6



#25
Ethyl Acetate
Concen: 0.220 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.08 min
Lab File: VL034616.D
Acq: 7 Feb 2020 10:52

Tgt Ion:	43	Resp:	45566
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.5	12.7
61	8.7	7.8	11.6
70	9.1	5.8	8.8#





#26

Hexane

Concen: 0.251 ppbv

RT: 5.75 min Scan# 921

Delta R.T. 0.07 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

Instrument :

MSVOA_L

ClientSampleId :

IA-8DL

Tgt Ion: 57 Resp: 21791

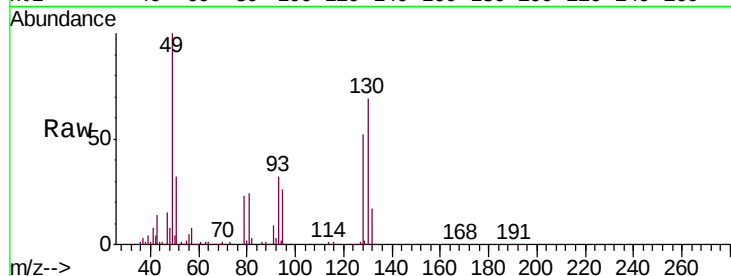
Ion Ratio Lower Upper

57 100

41 126.4 76.2 114.2#

43 213.4 189.9 284.9

56 70.7 43.6 65.4#

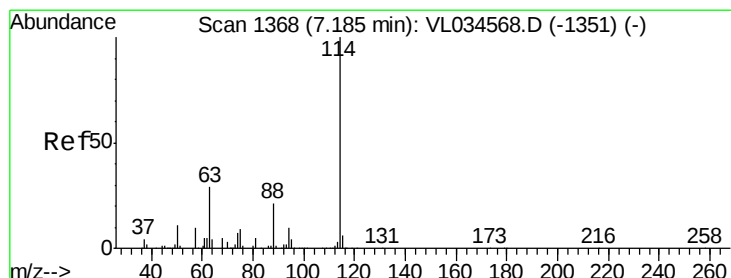
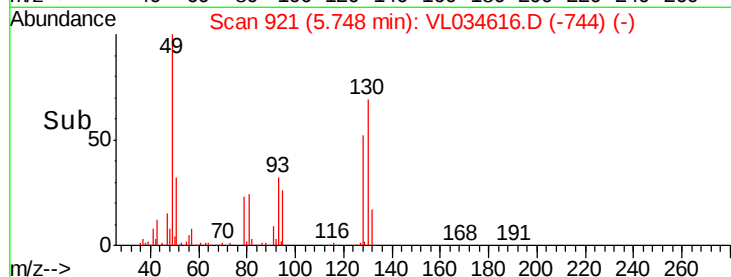
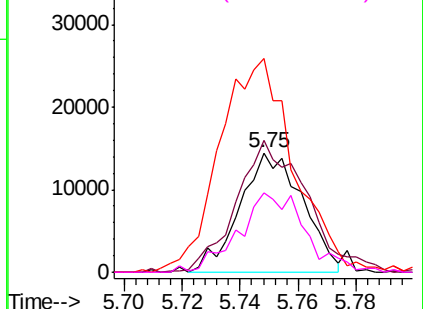


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.26 min Scan# 1391

Delta R.T. 0.07 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

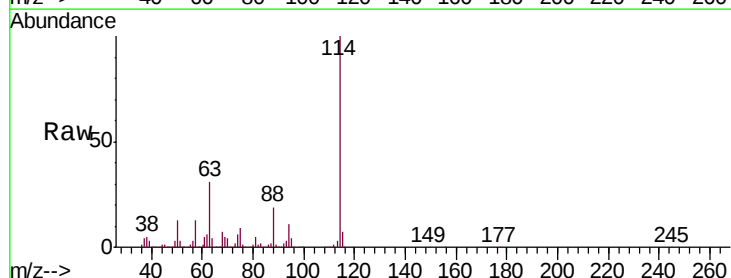
Tgt Ion: 114 Resp: 1819529

Ion Ratio Lower Upper

114 100

63 29.8 24.1 36.1

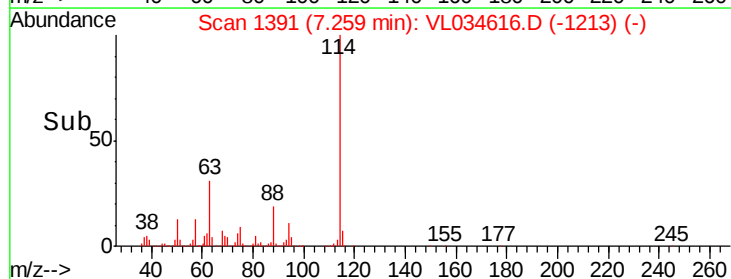
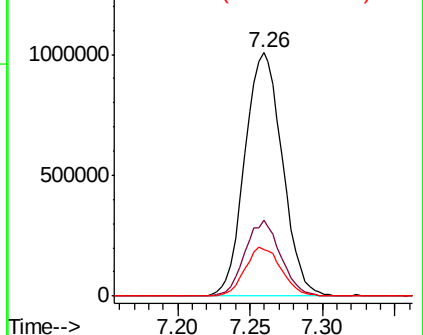
88 19.5 15.9 23.9

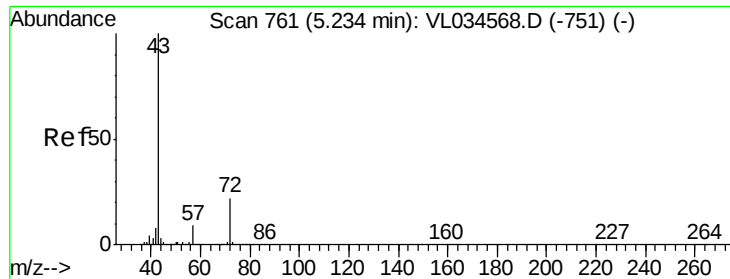


Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

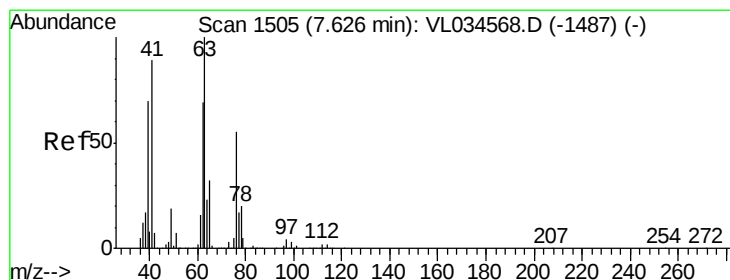
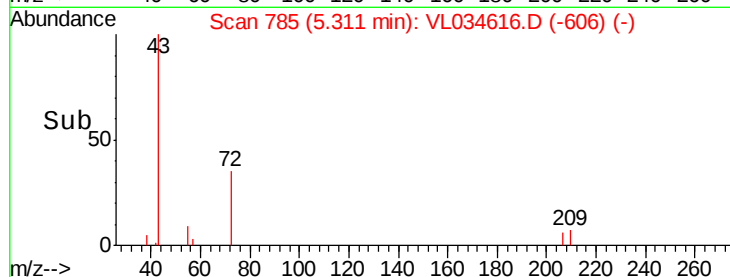
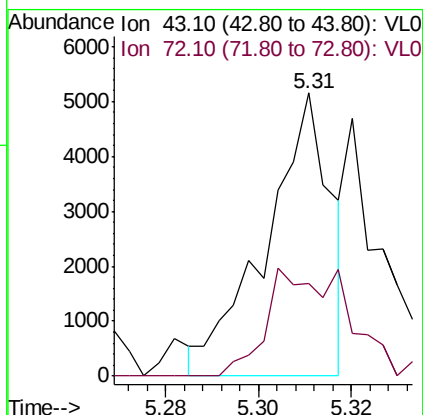
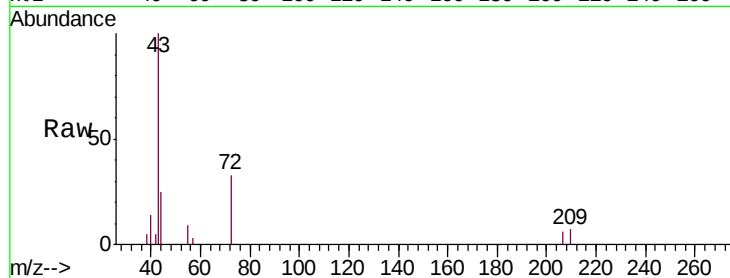




#34
2-Butanone
Concen: 0.038 ppbv
RT: 5.31 min Scan# 785
Delta R.T. 0.08 min
Lab File: VL034616.D
Acq: 7 Feb 2020 10:52

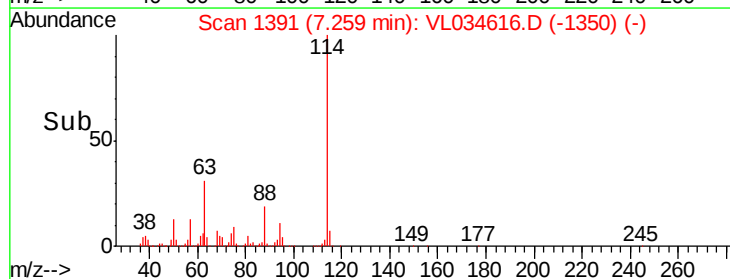
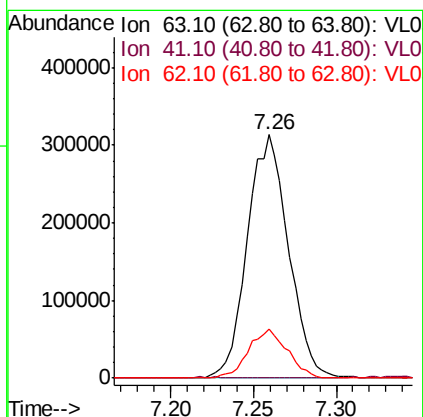
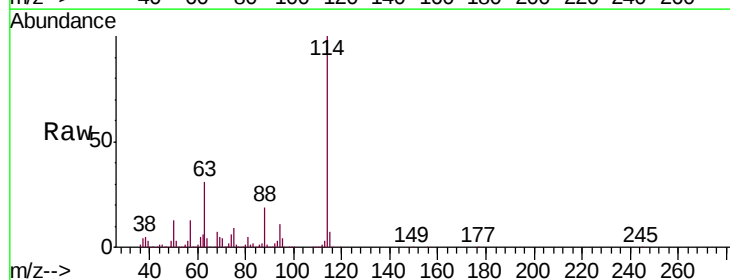
Instrument :
MSVOA_L
ClientSampleId :
IA-8DL

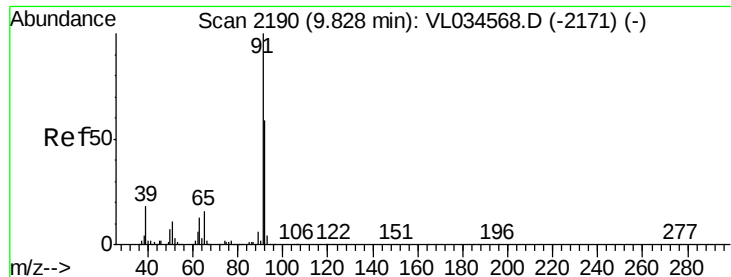
Tgt Ion: 43 Resp: 4984
Ion Ratio Lower Upper
43 100
72 52.0 17.2 25.8#



#39
1,2-Dichloropropane
Concen: 8.033 ppbv
RT: 7.26 min Scan# 1391
Delta R.T. -0.37 min
Lab File: VL034616.D
Acq: 7 Feb 2020 10:52

Tgt Ion: 63 Resp: 538867
Ion Ratio Lower Upper
63 100
41 0.2 71.0 106.4#
62 20.0 55.4 83.0#





#53

Toluene

Concen: 0.238 ppbv

RT: 9.92 min Scan# 2218

Delta R.T. 0.09 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

Instrument :

MSVOA_L

ClientSampleId :

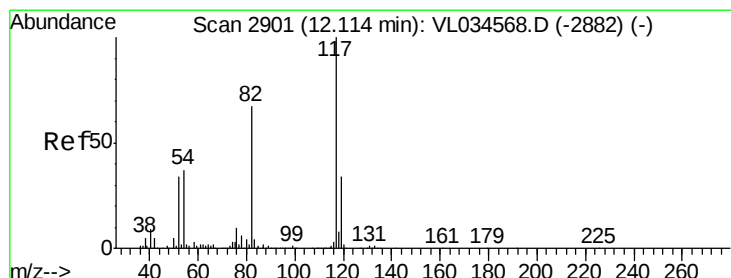
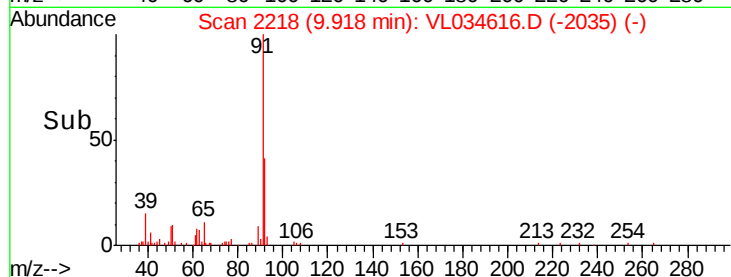
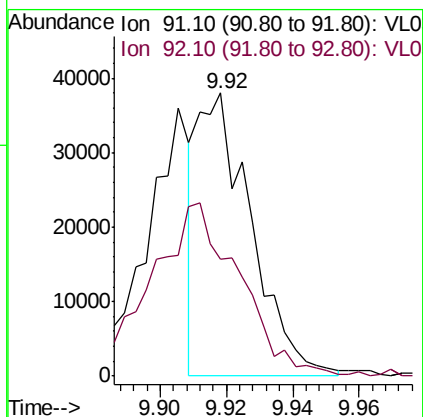
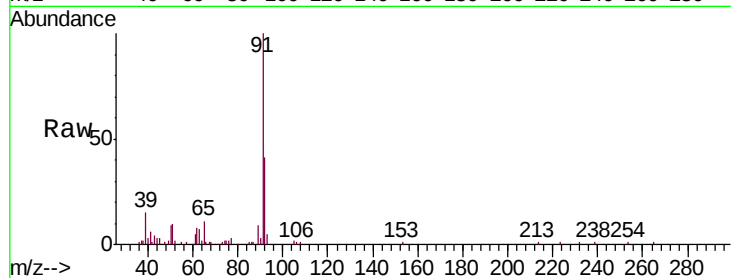
IA-8DL

Tgt Ion: 91 Resp: 42324

Ion Ratio Lower Upper

91 100

92 104.1 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2929

Delta R.T. 0.09 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

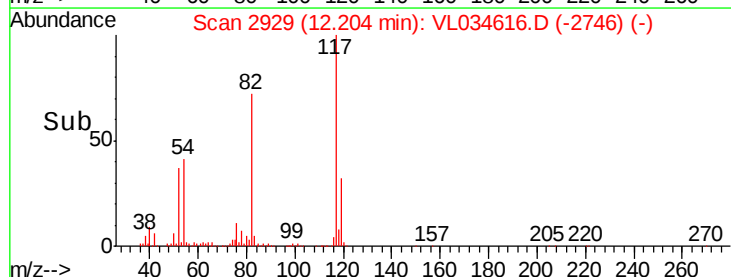
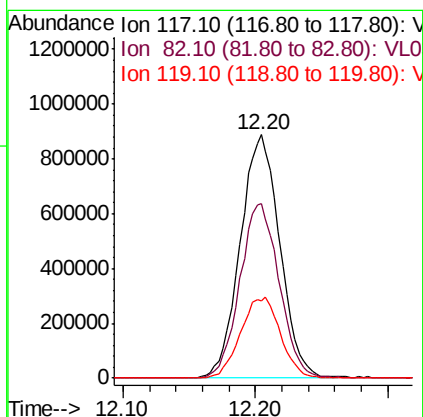
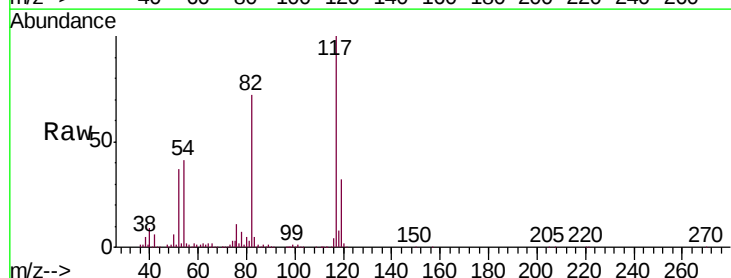
Tgt Ion: 117 Resp: 1844299

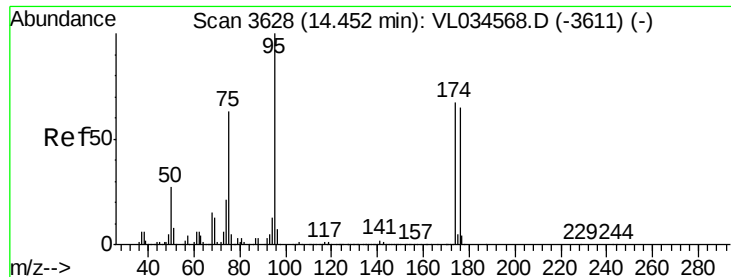
Ion Ratio Lower Upper

117 100

82 71.4 54.2 81.4

119 33.4 26.1 39.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.425 ppbv

RT: 14.54 min Scan# 3656

Delta R.T. 0.09 min

Lab File: VL034616.D

Acq: 7 Feb 2020 10:52

Instrument :

MSVOA_L

ClientSampleId :

IA-8DL

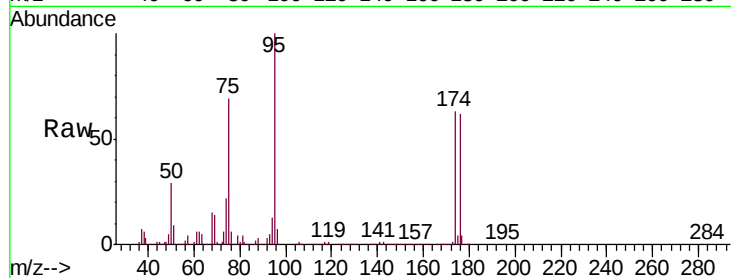
Tgt Ion: 95 Resp: 1624982

Ion Ratio Lower Upper

95 100

174 62.7 52.3 78.5

175 4.4 3.8 5.6



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

