

Data File : VL034932.D
Acq On : 23 Mar 2020 16:43
Operator : SY/AP
Sample : L2004-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

Quant Time: Mar 24 01:51:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1076689	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2299437	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2332415	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 1898498 10.44 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.40%

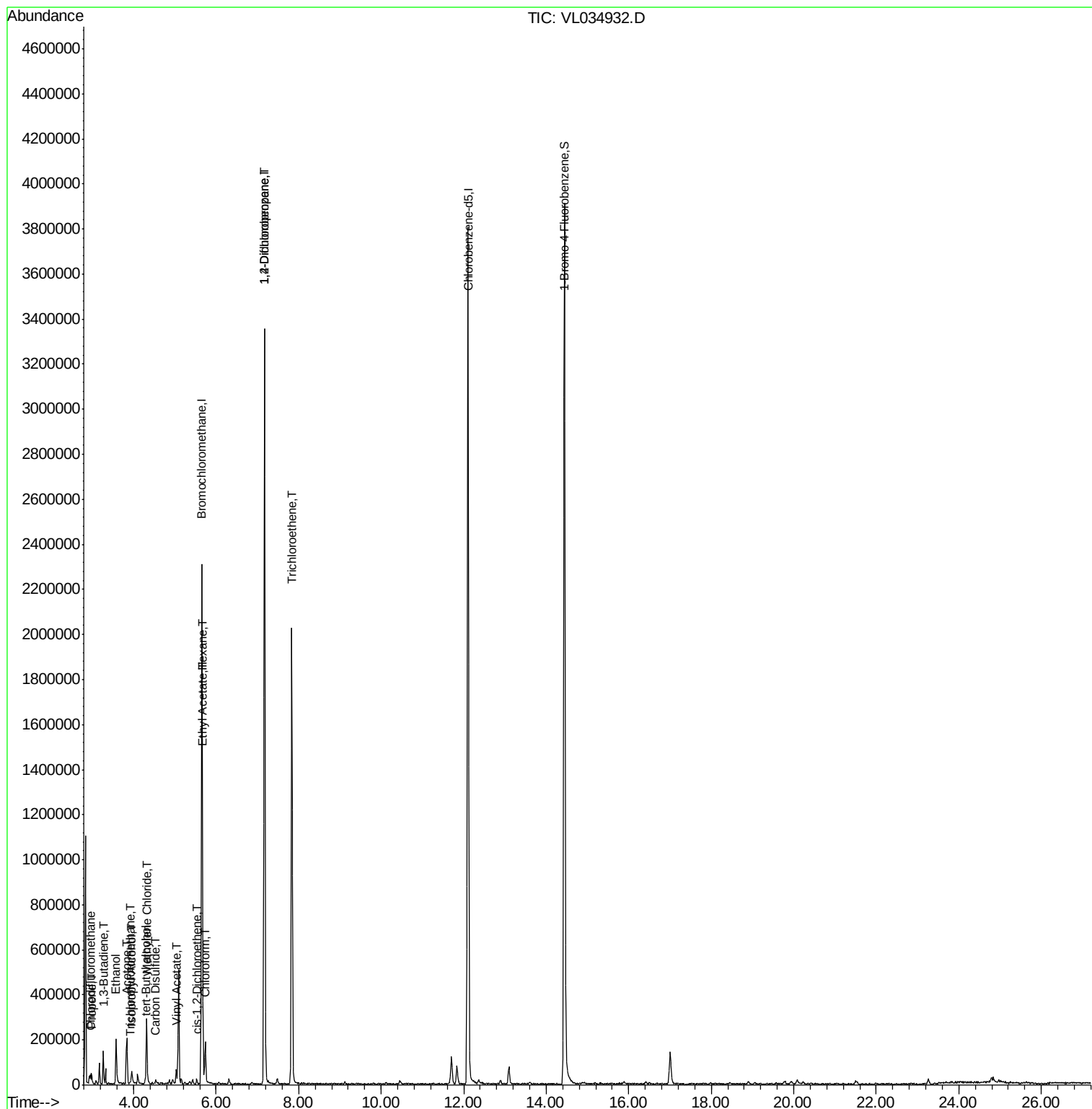
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.94	51	51392	0.427	ppbv #	85
9) Propene	2.98	41	9158	0.159	ppbv #	75
11) Trichlorofluoromethane	3.92	101	5950	0.038	ppbv	97
13) Ethanol	3.57	45	203718	11.669	ppbv	96
15) Acetone	3.82	43	192324	1.378	ppbv	93
16) 1,3-Butadiene	3.27	39	38725	0.614	ppbv #	14
17) tert-Butyl alcohol	4.29	59	10487	0.078	ppbv #	59
19) Isopropyl Alcohol	3.95	45	52960	0.601	ppbv #	46
20) Methylene Chloride	4.32	84	91911	2.083	ppbv	96
23) Vinyl Acetate	5.03	43	20779	0.101	ppbv #	54
25) Ethyl Acetate	5.67	43	42097	0.169	ppbv #	81
26) Hexane	5.67	57	55531	0.519	ppbv #	43
27) Carbon Disulfide	4.53	76	8724	0.072	ppbv #	13
29) Chloroform	5.74	83	108490	0.664	ppbv	97
31) cis-1,2-Dichloroethene	5.53	61	5240	0.048	ppbv	96
38) Trichloroethene	7.83	130	591371	7.597	ppbv	93
39) 1,2-Dichloropropane	7.17	63	630083	7.759	ppbv #	23

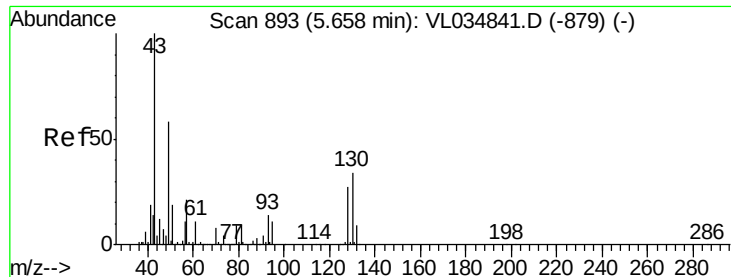
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

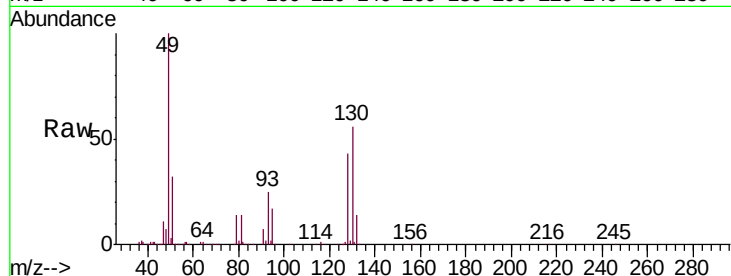
Tgt Ion: 49 Resp: 1076689

Ion Ratio Lower Upper

49 100

128 45.4 23.4 70.3

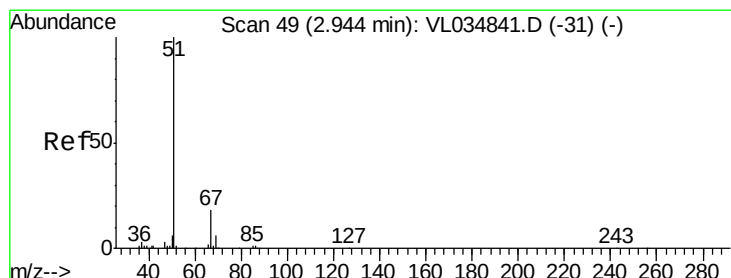
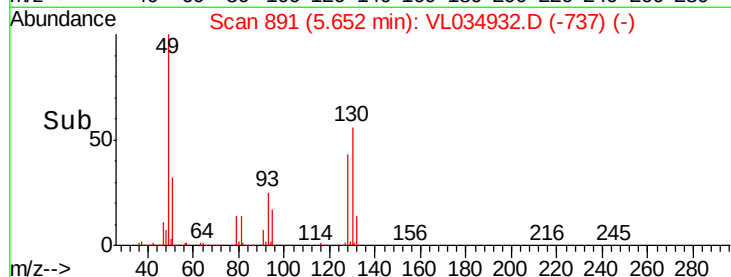
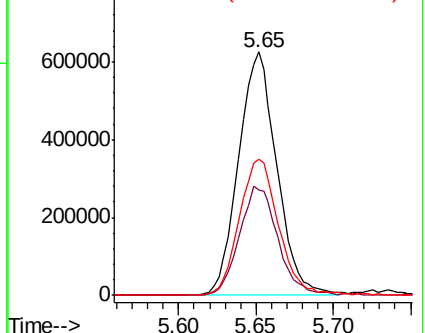
130 58.2 30.0 90.0



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



#3

Chlorodifluoromethane

Concen: 0.427 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL034932.D

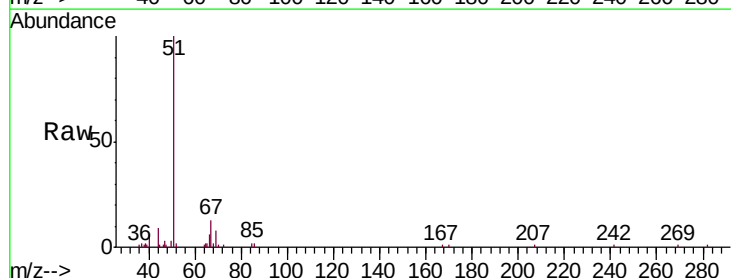
Acq: 23 Mar 2020 16:43

Tgt Ion: 51 Resp: 51392

Ion Ratio Lower Upper

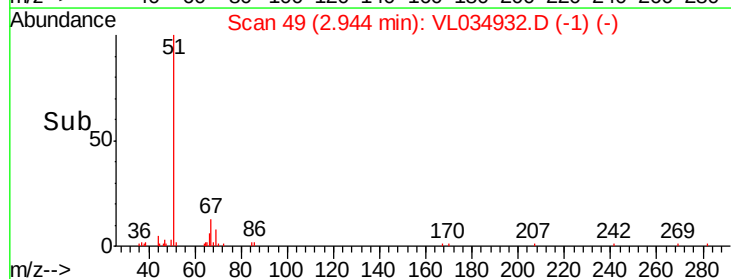
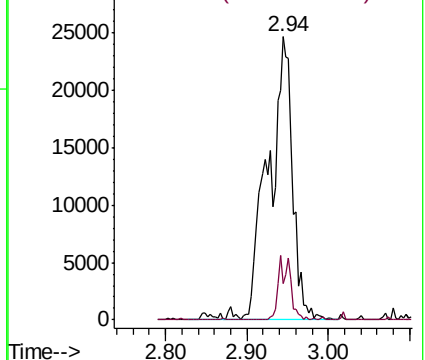
51 100

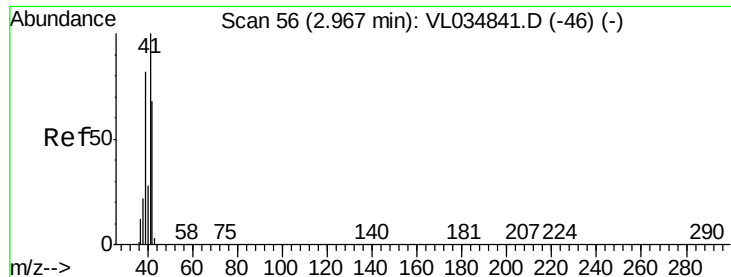
67 11.1 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.159 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

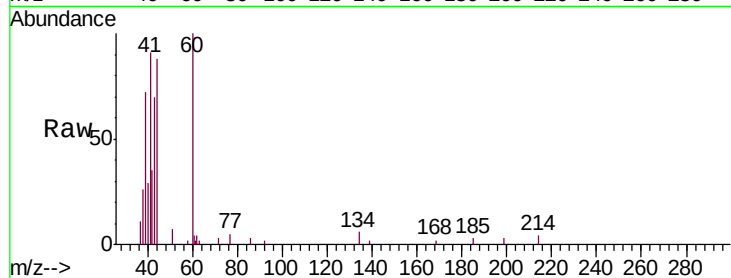
AIR-01DL

Tgt Ion: 41 Resp: 9158

Ion Ratio Lower Upper

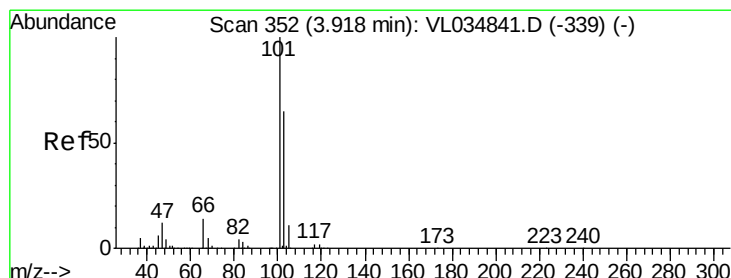
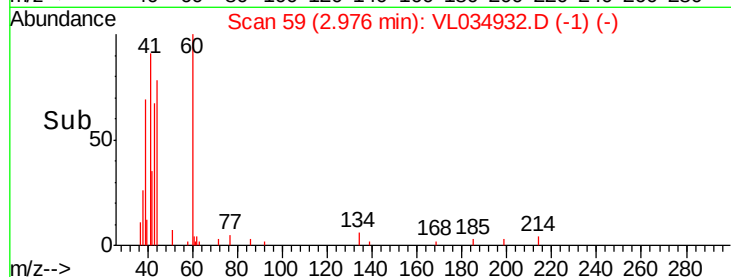
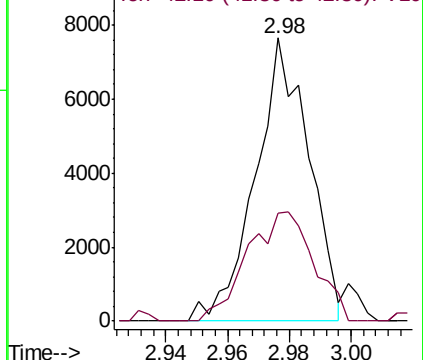
41 100

42 48.7 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.00 min

Lab File: VL034932.D

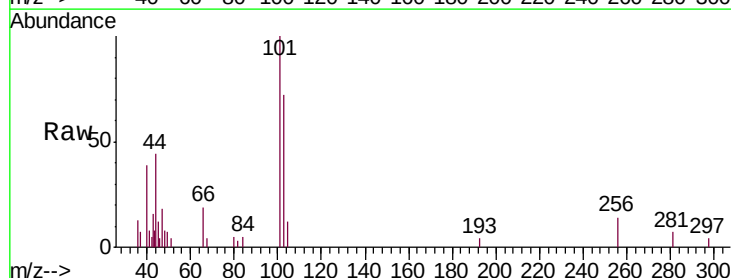
Acq: 23 Mar 2020 16:43

Tgt Ion: 101 Resp: 5950

Ion Ratio Lower Upper

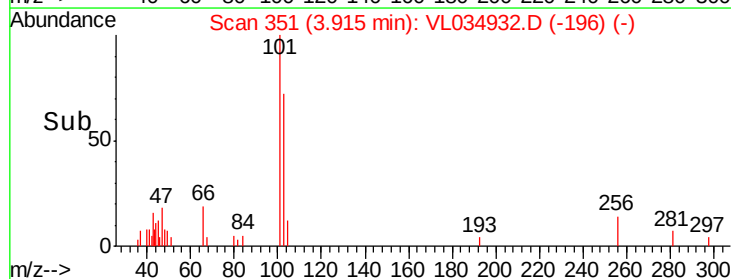
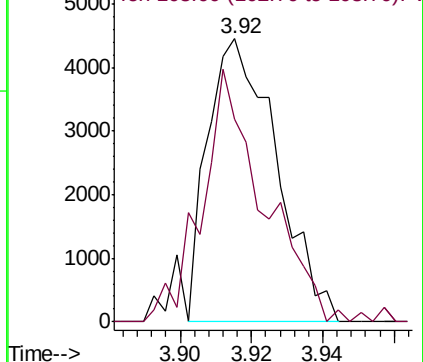
101 100

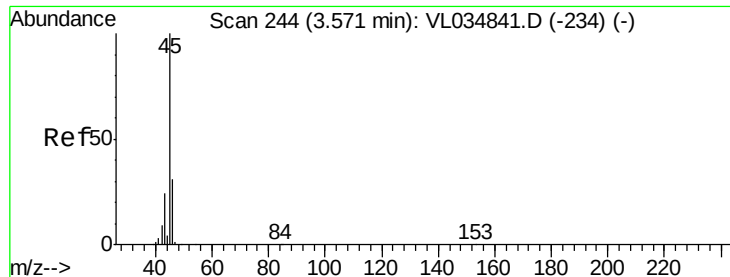
103 67.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 11.669 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

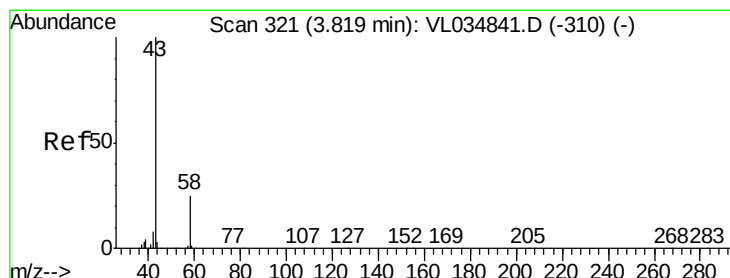
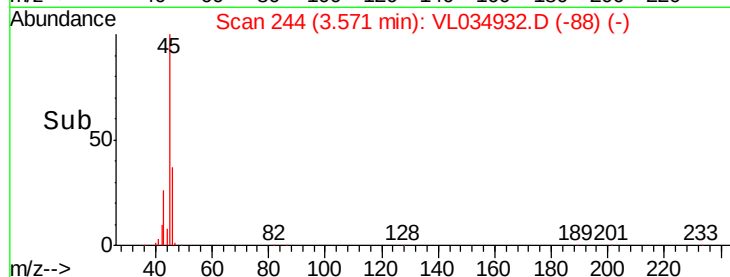
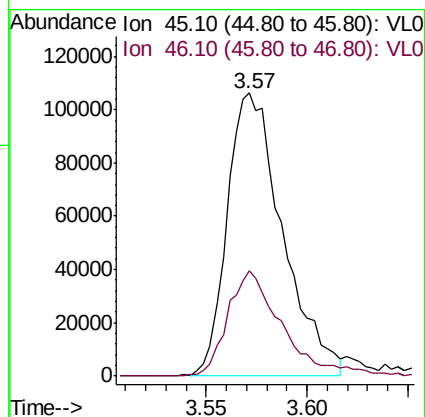
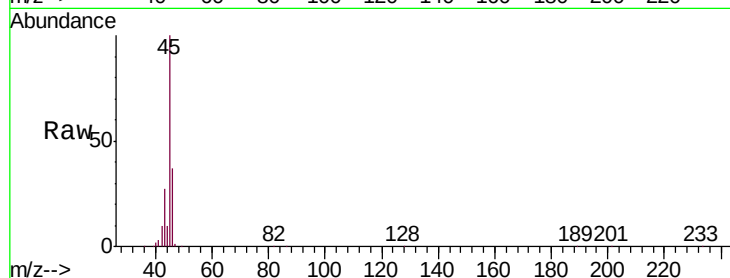
AIR-01DL

Tgt Ion: 45 Resp: 203718

Ion Ratio Lower Upper

45 100

46 37.5 16.0 64.0



#15

Acetone

Concen: 1.378 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034932.D

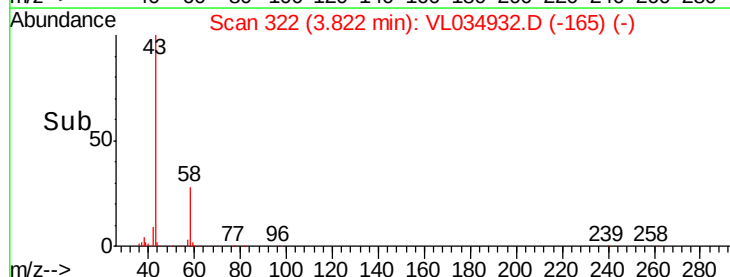
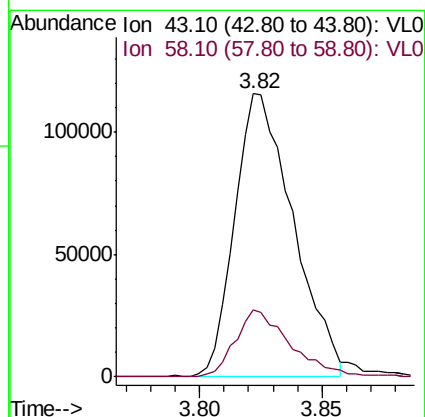
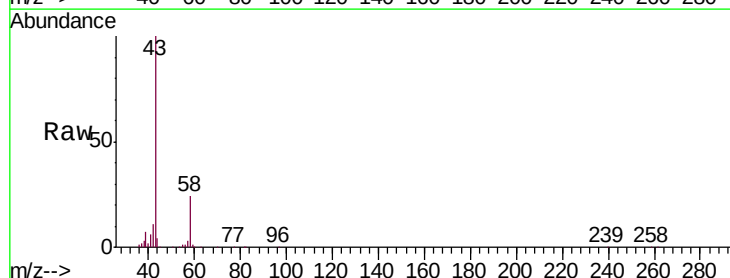
Acq: 23 Mar 2020 16:43

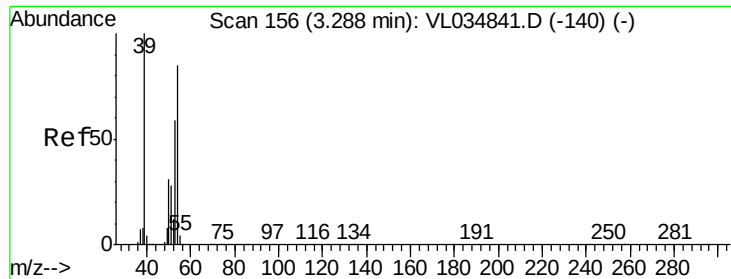
Tgt Ion: 43 Resp: 192324

Ion Ratio Lower Upper

43 100

58 22.5 21.0 31.6

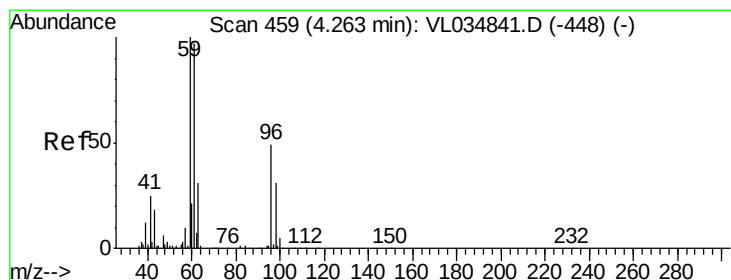
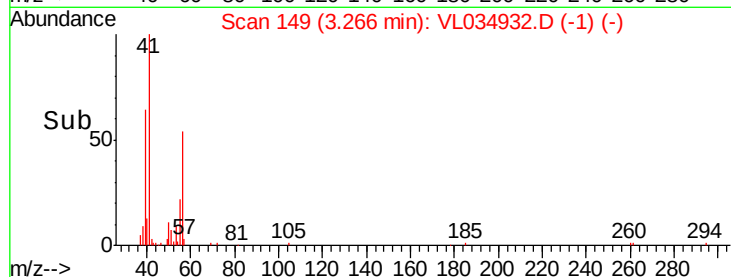
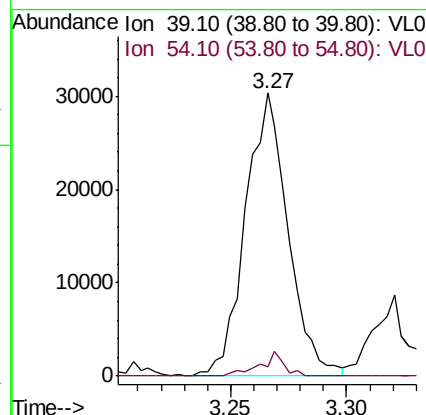
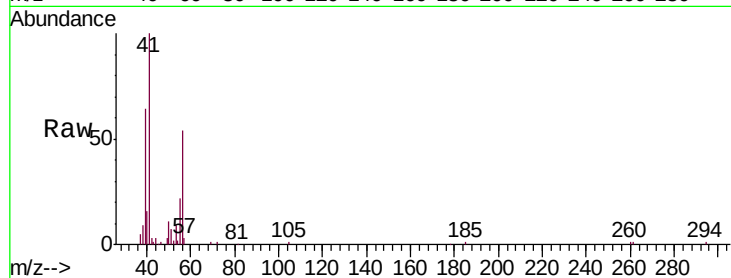




#16
1,3-Butadiene
Concen: 0.614 ppbv
RT: 3.27 min Scan# 149
Delta R.T. -0.02 min
Lab File: VL034932.D
Acq: 23 Mar 2020 16:43

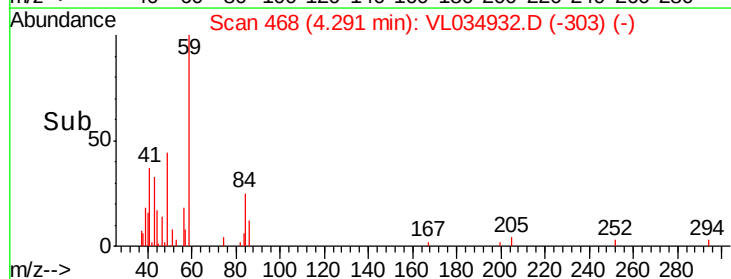
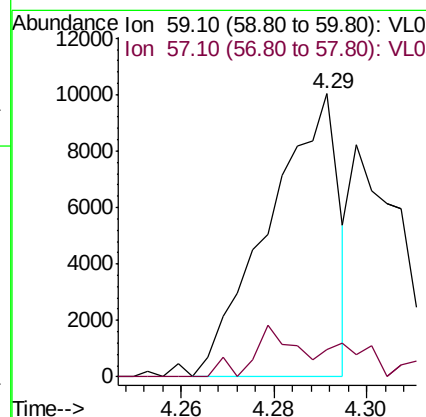
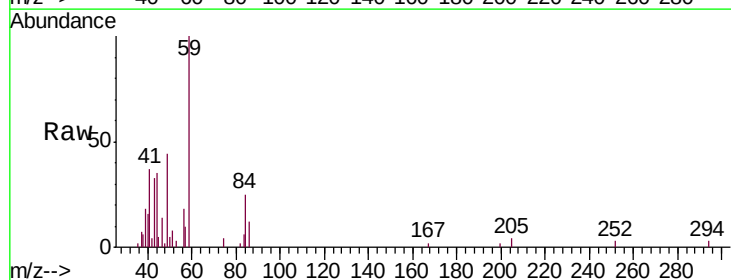
Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

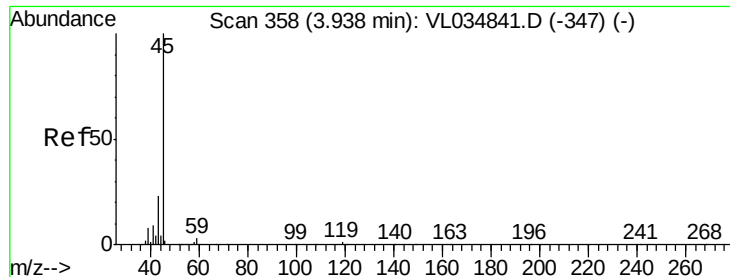
Tgt Ion: 39 Resp: 38725
Ion Ratio Lower Upper
39 100
54 4.8 65.0 97.6#



#17
tert-Butyl alcohol
Concen: 0.078 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.03 min
Lab File: VL034932.D
Acq: 23 Mar 2020 16:43

Tgt Ion: 59 Resp: 10487
Ion Ratio Lower Upper
59 100
57 25.8 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 0.601 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

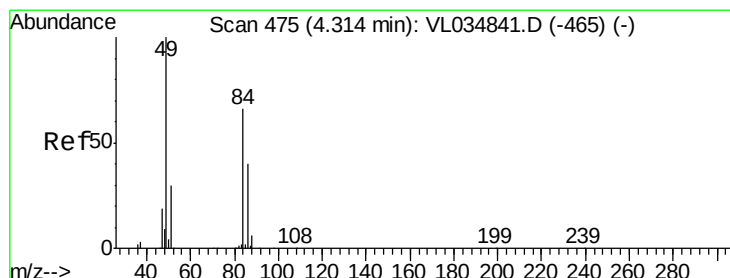
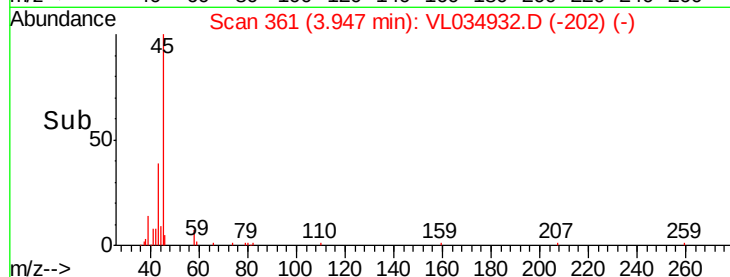
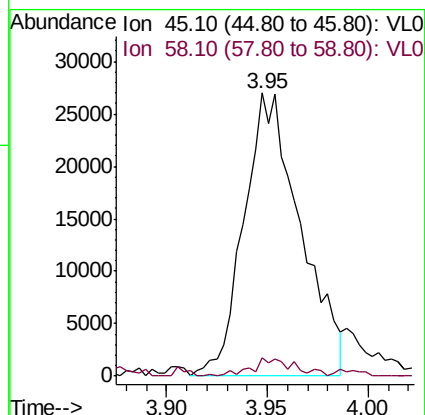
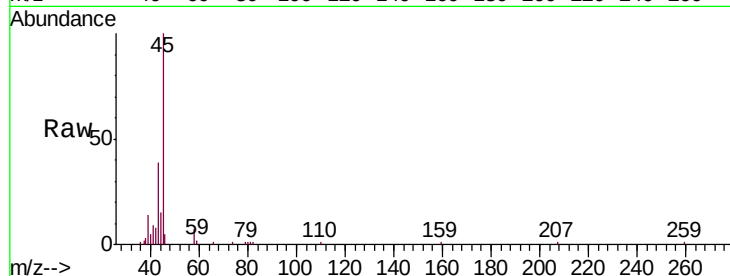
AIR-01DL

Tgt Ion: 45 Resp: 52960

Ion Ratio Lower Upper

45 100

58 5.8 30.5 45.7#



#20

Methylene Chloride

Concen: 2.083 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Tgt Ion: 84 Resp: 91911

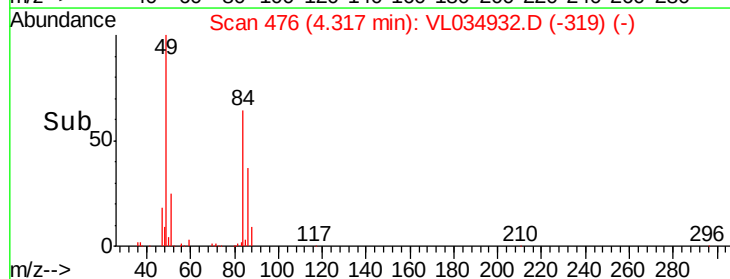
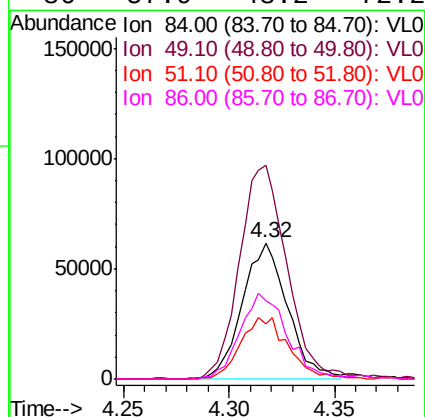
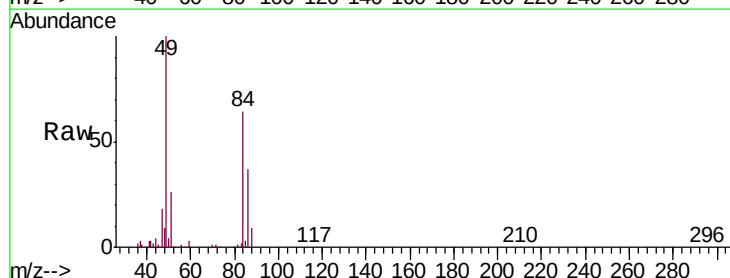
Ion Ratio Lower Upper

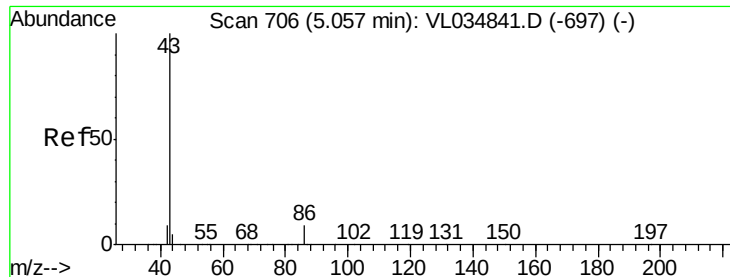
84 100

49 155.3 121.5 182.3

51 39.7 36.6 55.0

86 57.9 48.2 72.2





#23

Vinyl Acetate

Concen: 0.101 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.03 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampled :

AIR-01DL

Tgt Ion: 43 Resp: 20779

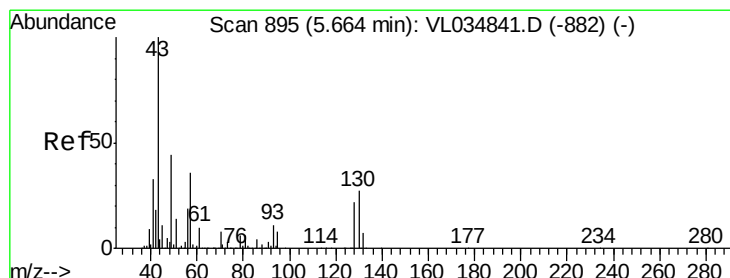
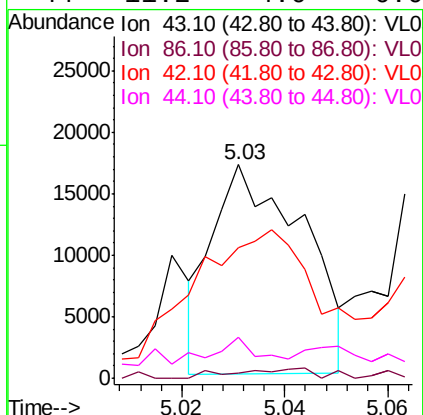
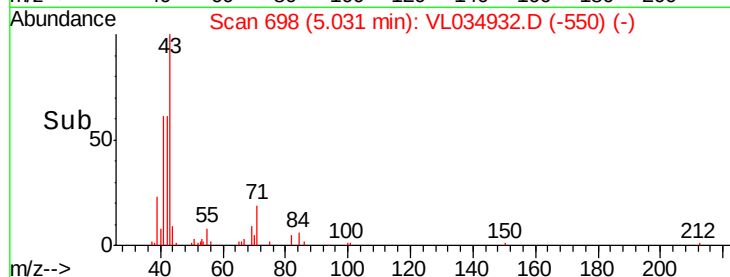
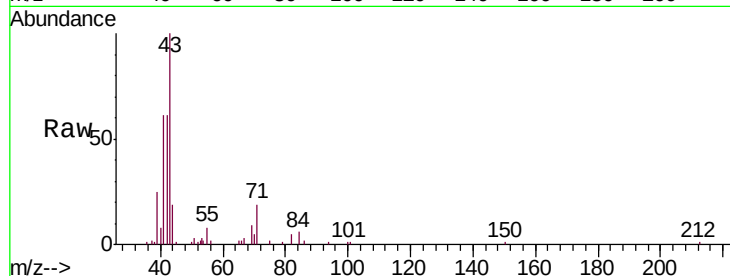
Ion Ratio Lower Upper

43 100

86 3.2 6.3 9.5#

42 41.5 7.8 11.8#

44 11.2 4.0 6.0#



#25

Ethyl Acetate

Concen: 0.169 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Tgt Ion: 43 Resp: 42097

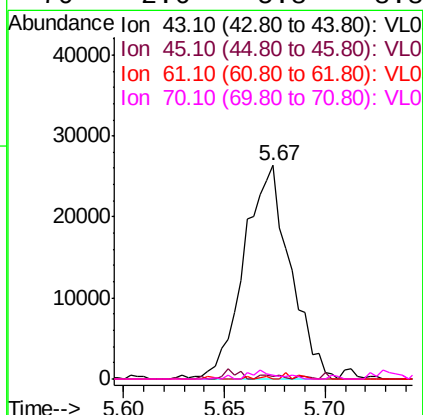
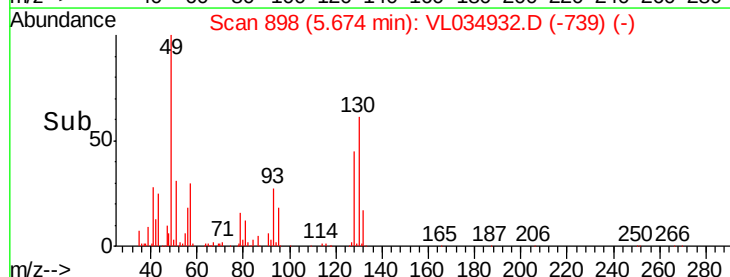
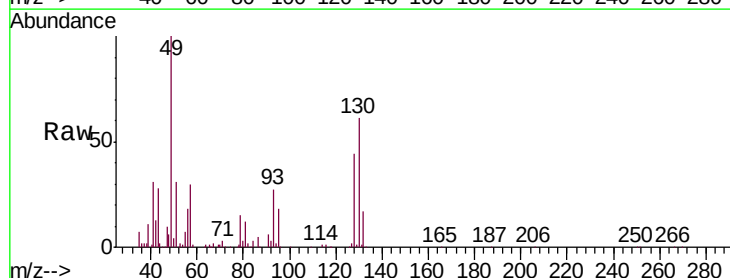
Ion Ratio Lower Upper

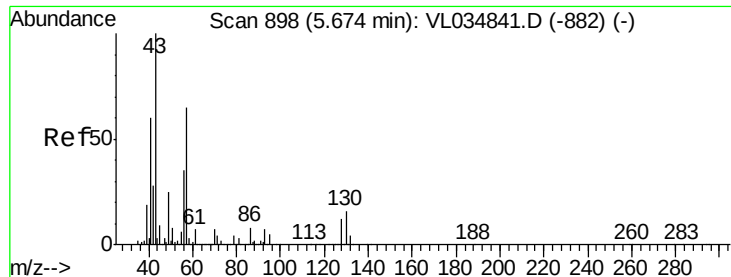
43 100

45 2.5 8.2 12.2#

61 1.4 7.8 11.6#

70 2.6 5.8 8.8#





#26

Hexane

Concen: 0.519 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tgt Ion: 57 Resp: 55531

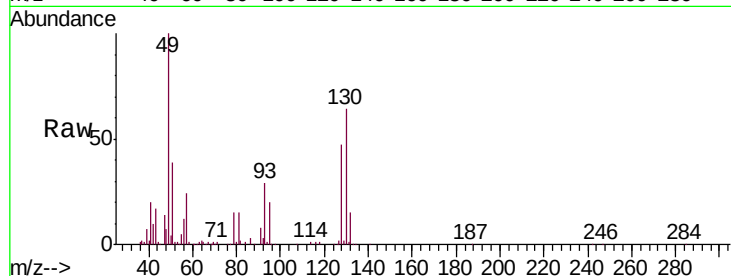
Ion Ratio Lower Upper

57 100

41 91.7 72.6 109.0

43 77.3 183.8 275.6#

56 53.4 41.9 62.9

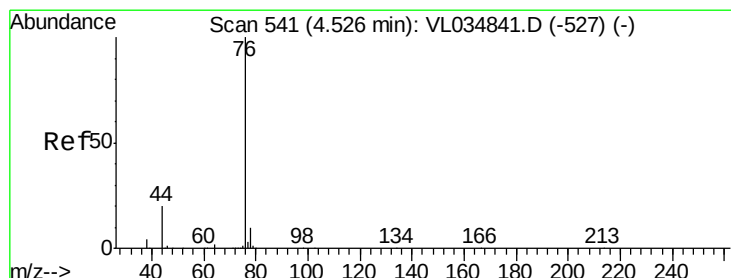
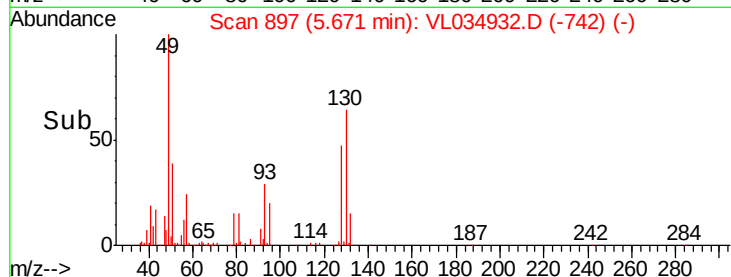
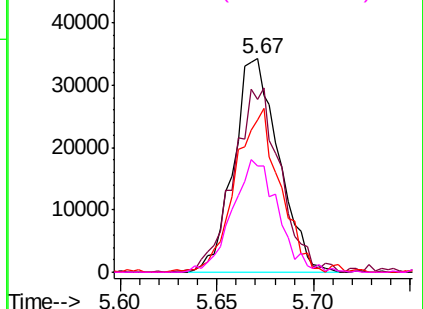


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.072 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

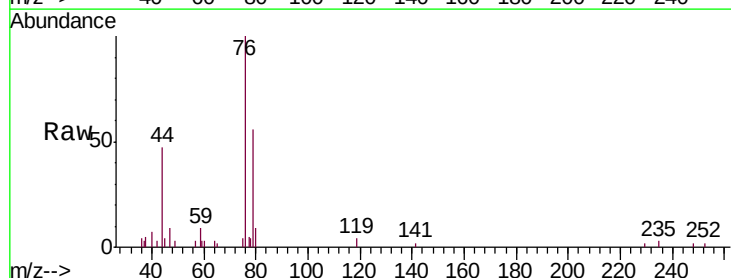
Tgt Ion: 76 Resp: 8724

Ion Ratio Lower Upper

76 100

44 78.3 16.2 24.2#

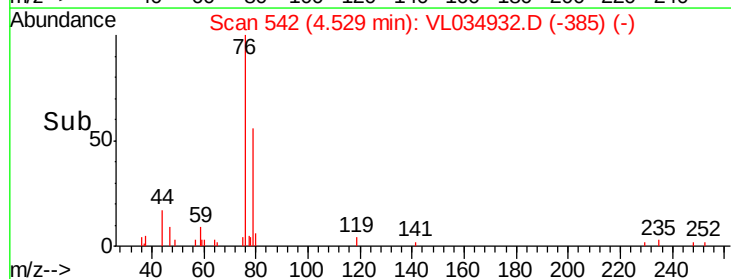
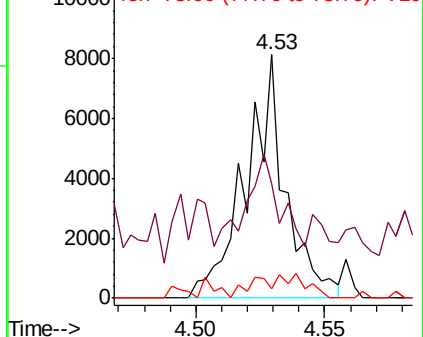
78 12.0 7.8 11.6#

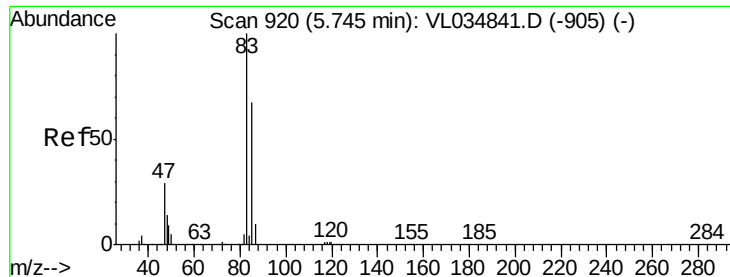


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

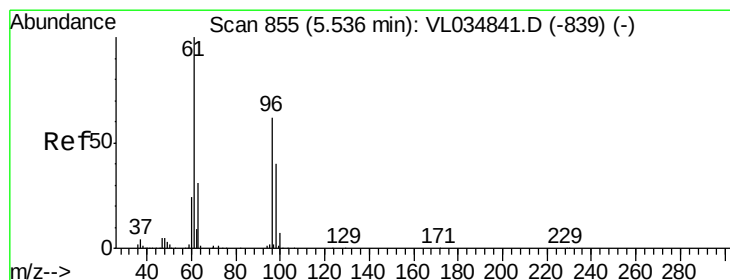
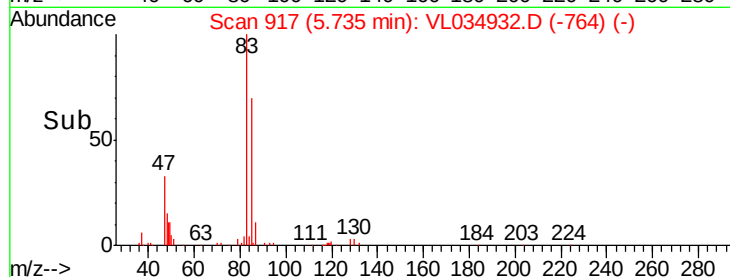
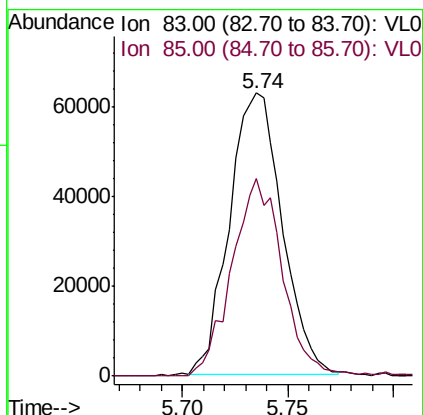
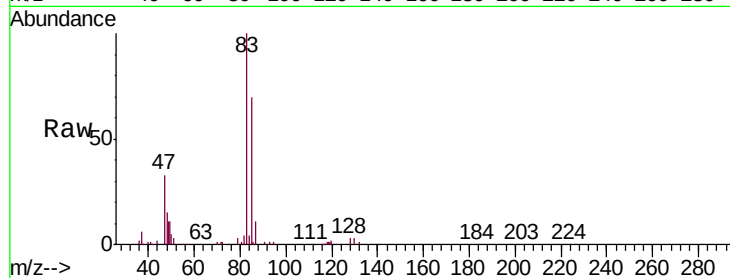




#29
Chloroform
Concen: 0.664 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL034932.D
Acq: 23 Mar 2020 16:43

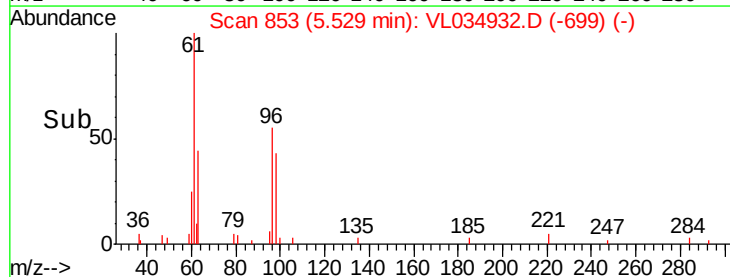
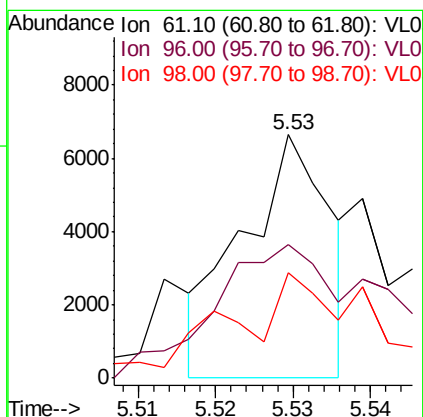
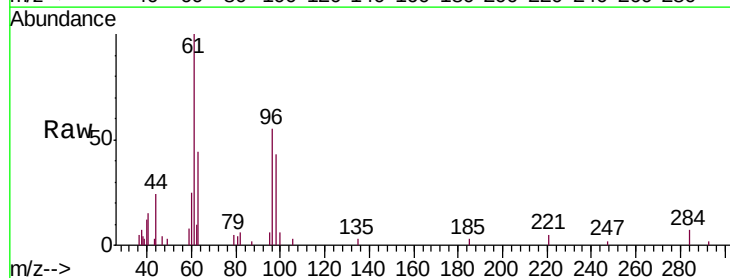
Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

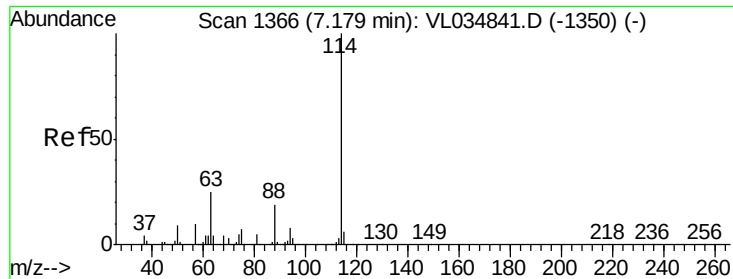
Tgt Ion: 83 Resp: 108490
Ion Ratio Lower Upper
83 100
85 69.9 53.8 80.6



#31
cis-1,2-Dichloroethene
Concen: 0.048 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.01 min
Lab File: VL034932.D
Acq: 23 Mar 2020 16:43

Tgt Ion: 61 Resp: 5240
Ion Ratio Lower Upper
61 100
96 59.7 49.8 74.8
98 37.6 32.2 48.4

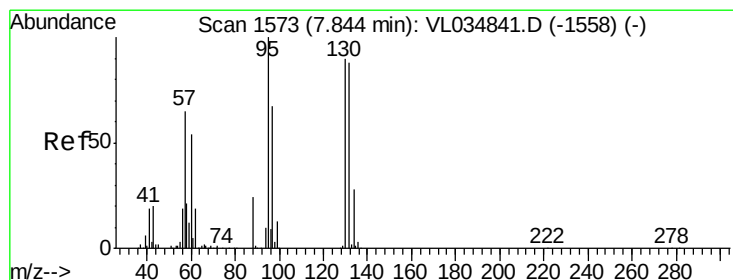
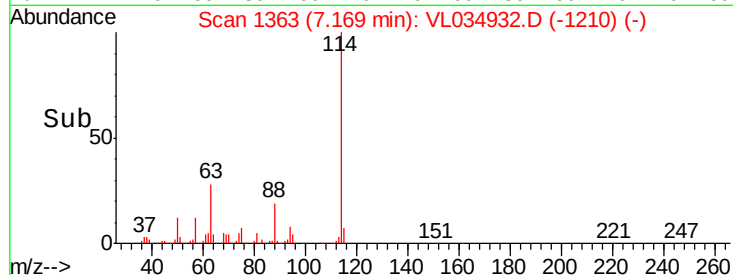
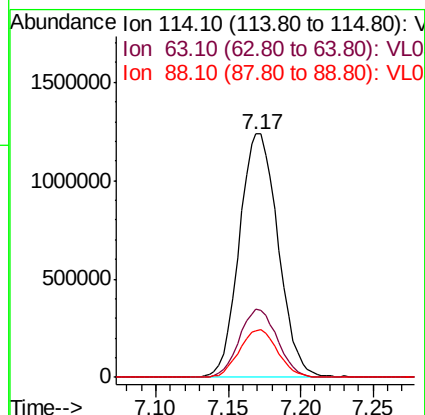
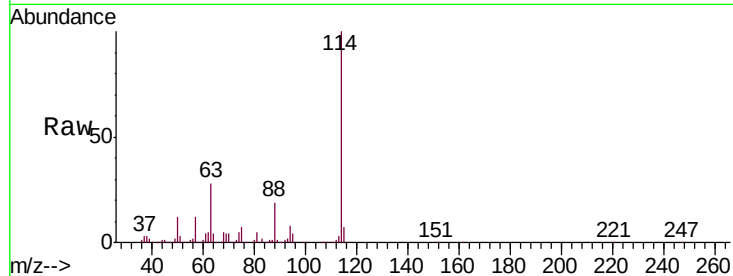




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL034932.D
 Acq: 23 Mar 2020 16:43

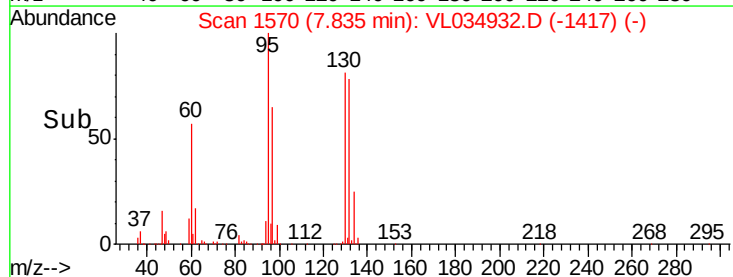
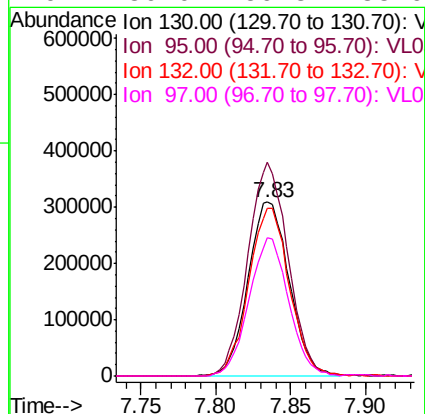
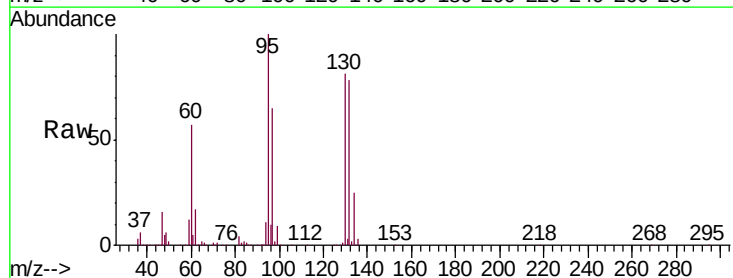
Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

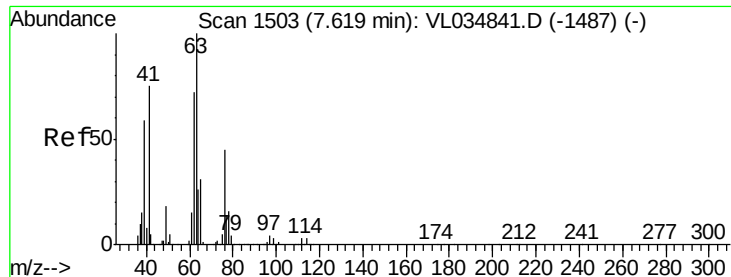
Tgt Ion:114 Resp: 2299437
 Ion Ratio Lower Upper
 114 100
 63 27.5 20.6 31.0
 88 19.4 15.0 22.6



#38
 Trichloroethene
 Concen: 7.597 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL034932.D
 Acq: 23 Mar 2020 16:43

Tgt Ion:130 Resp: 591371
 Ion Ratio Lower Upper
 130 100
 95 123.1 88.5 132.7
 132 96.4 78.0 117.0
 97 80.0 59.3 88.9

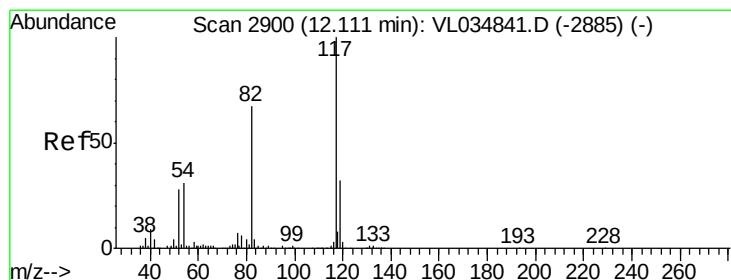
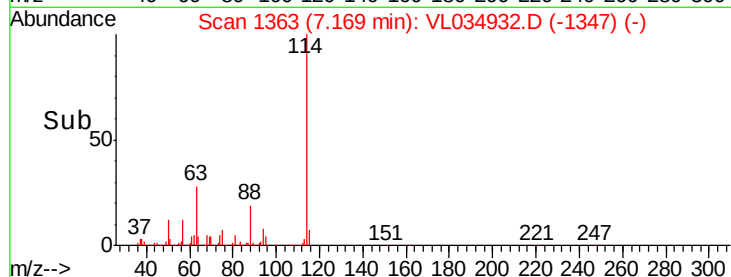
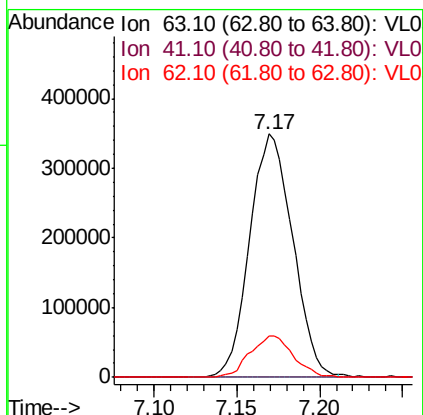
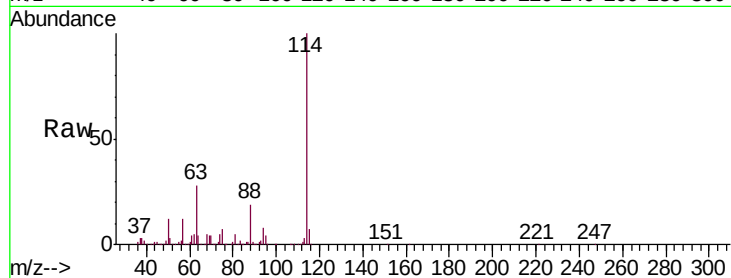




#39
 1,2-Dichloropropane
 Concen: 7.759 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL034932.D
 Acq: 23 Mar 2020 16:43

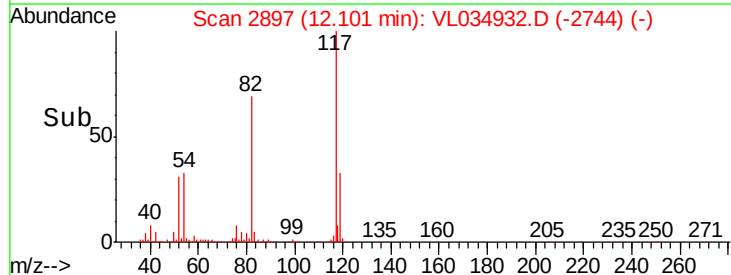
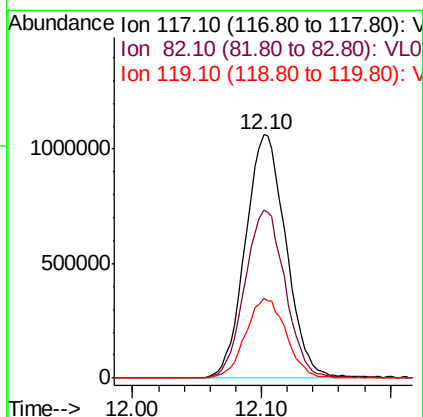
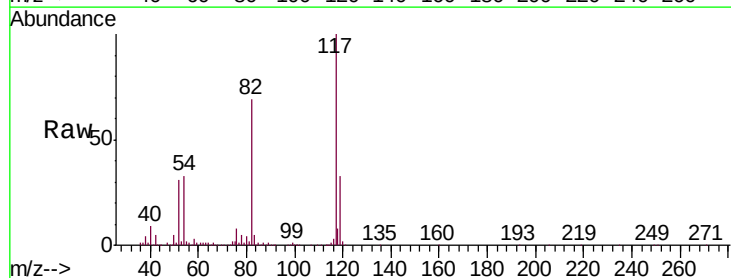
Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

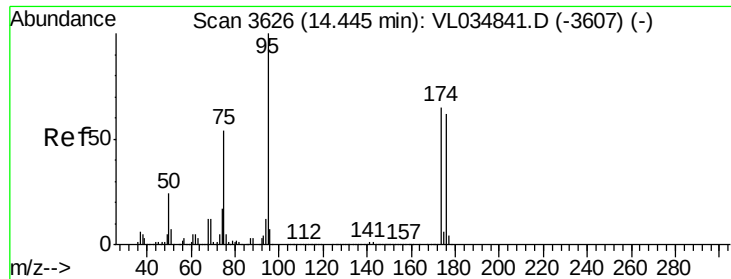
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.8	89.8#
62	16.9	57.6	86.4#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min Scan# 2897
 Delta R.T. -0.01 min
 Lab File: VL034932.D
 Acq: 23 Mar 2020 16:43

Tgt Ion	Ratio	Lower	Upper
117	100		
82	69.2	51.1	76.7
119	32.7	27.3	40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.437 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL034932.D

Acq: 23 Mar 2020 16:43

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tgt Ion: 95 Resp: 1898498

Ion Ratio Lower Upper

95 100

174 64.7 55.2 82.8

175 4.7 4.3 6.5

