

Data File : VL034882.D
Acq On : 11 Mar 2020 8:59
Operator : SY/AP
Sample : L1861-01DUPDL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
O-1DLDUP

Quant Time: Mar 11 12:50:48 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-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	864293	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1974170	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1944325	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 1591933 10.50 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 105.00%

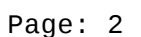
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	5004	0.042	ppbv #	80
3) Chlorodifluoromethane	2.94	51	5193	0.054	ppbv #	89
4) Chloromethane	3.10	50	4556	0.083	ppbv #	73
9) Propene	3.16	41	1511662	32.794	ppbv	94
10) Heptane	8.13	43	709488	6.254	ppbv	98
13) Ethanol	3.57	45	609773	43.511	ppbv	92
15) Acetone	3.81	43	1932674	17.253	ppbv #	87
16) 1,3-Butadiene	3.26	39	360491	7.116	ppbv #	14
17) tert-Butyl alcohol	4.27	59	169002	1.566	ppbv #	72
19) Isopropyl Alcohol	3.94	45	82450	1.166	ppbv #	1
20) Methylene Chloride	4.31	84	77045	2.175	ppbv #	95
21) Allyl Chloride	4.34	41	122165	1.698	ppbv #	57
23) Vinyl Acetate	5.04	43	407367	2.462	ppbv #	1
25) Ethyl Acetate	5.67	43	1937480	9.708	ppbv #	76
26) Hexane	5.67	57	2712291	31.560	ppbv #	40
34) 2-Butanone	5.22	43	27533	0.210	ppbv #	63
36) Benzene	6.88	78	16777	0.095	ppbv #	74
39) 1,2-Dichloropropane	7.17	63	528080	7.574	ppbv #	25
41) Tetrahydrofuran	5.97	42	44899	0.632	ppbv #	39
44) 2,2,4-Trimethylpentane	7.87	57	37718	0.127	ppbv #	12
51) 2-Hexanone	10.12	43	25223	0.164	ppbv #	32
52) Tetrachloroethene	11.24	164	2807	0.040	ppbv #	28
53) Toluene	9.82	91	141110	0.694	ppbv	95
58) Ethyl Benzene	12.73	91	16530	0.063	ppbv #	82
59) m/p-Xylene	12.98	91	120122	0.545	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	9282	0.038	ppbv #	58

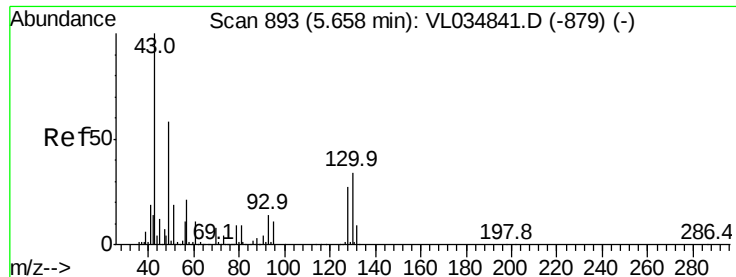
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034882.D

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Instrument :

MSVOA_L

ClientSampleId :

O-1DLDP

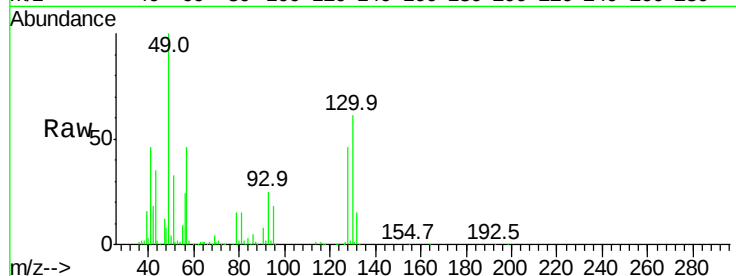
Tgt Ion: 49 Resp: 864293

Ion Ratio Lower Upper

49 100

128 45.4 23.4 70.3

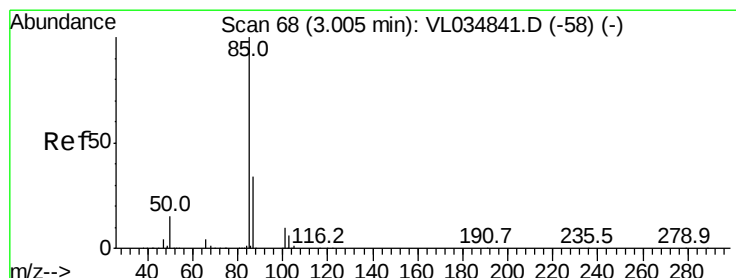
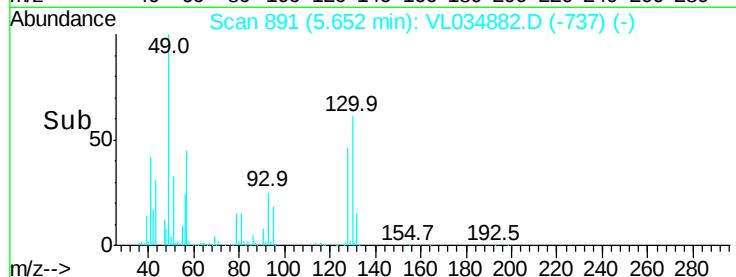
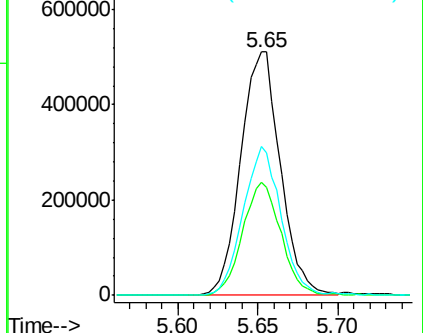
130 59.2 30.0 90.0



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: 0.042 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034882.D

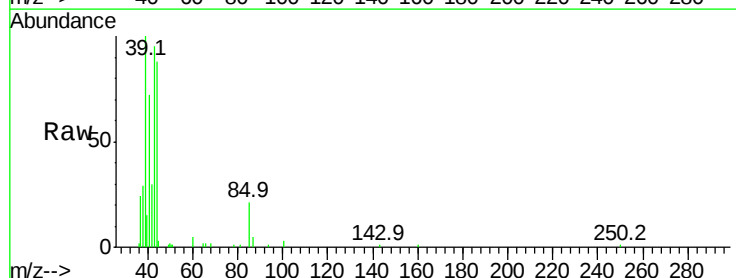
Acq: 11 Mar 2020 8:59

Tgt Ion: 85 Resp: 5004

Ion Ratio Lower Upper

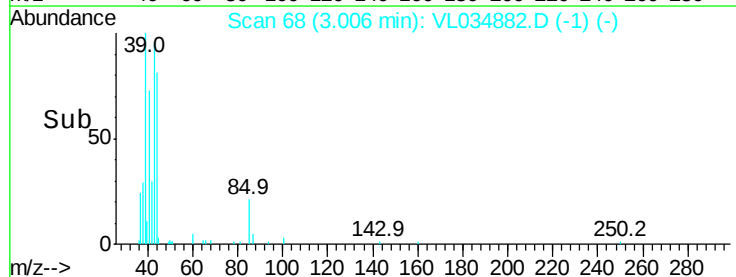
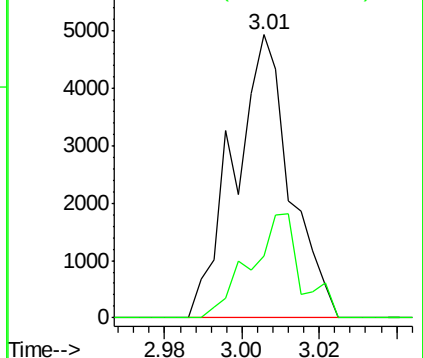
85 100

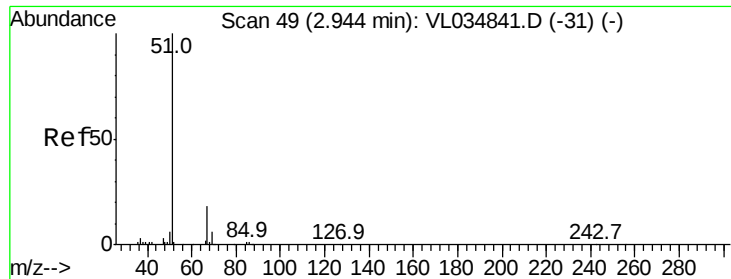
87 22.1 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.054 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.00 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Instrument :

MSVOA_L

ClientSampleId :

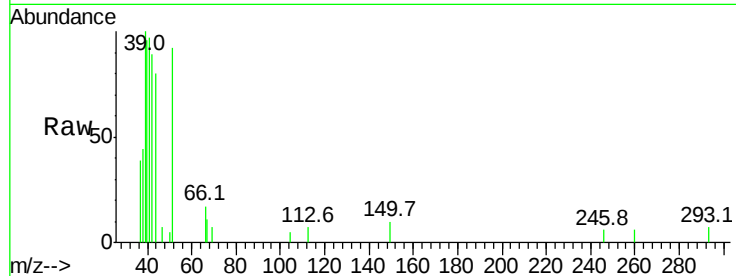
O-1DLDP

Tgt Ion: 51 Resp: 5193

Ion Ratio Lower Upper

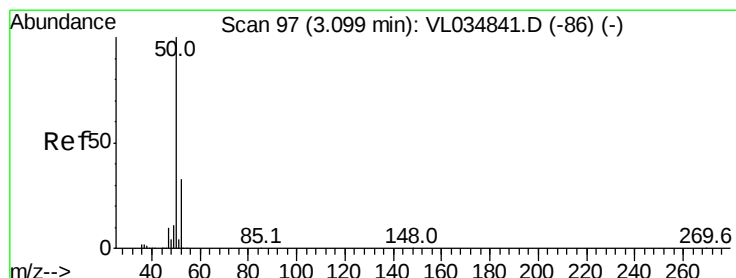
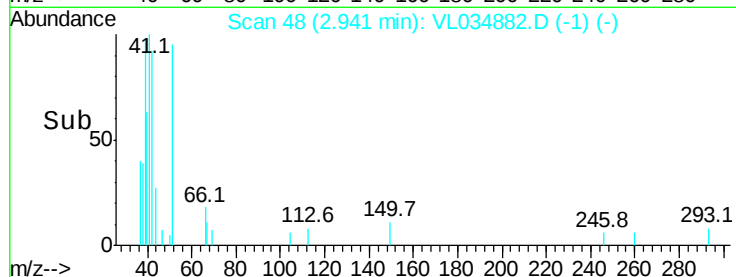
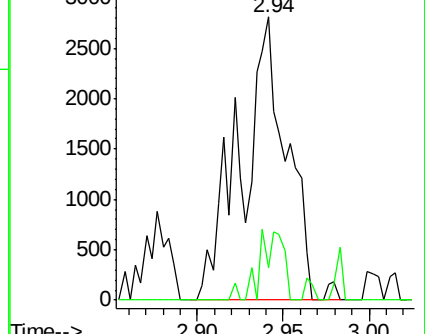
51 100

67 13.1 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.083 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL034882.D

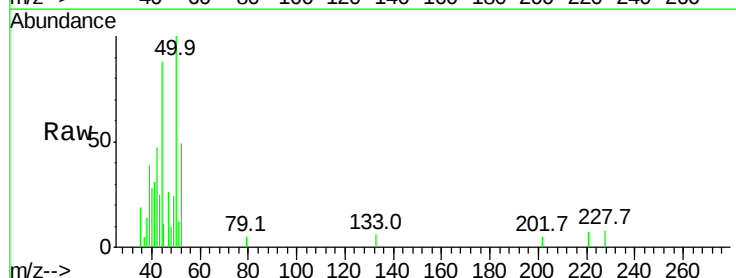
Acq: 11 Mar 2020 8:59

Tgt Ion: 50 Resp: 4556

Ion Ratio Lower Upper

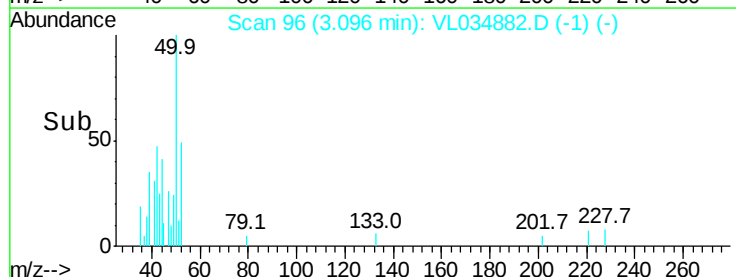
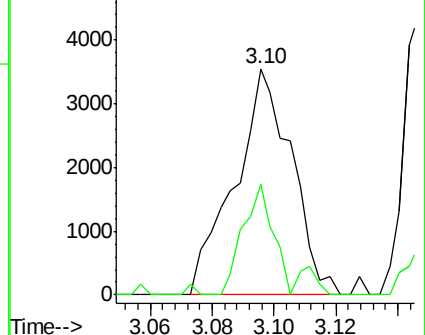
50 100

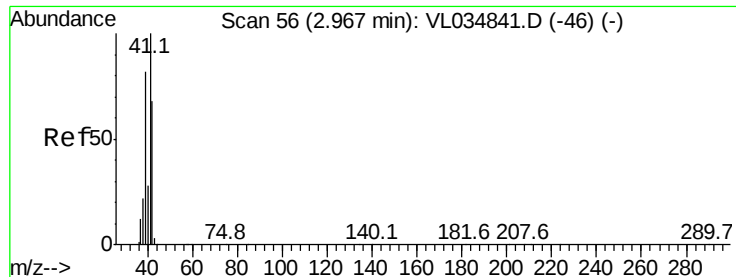
52 48.7 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 32.794 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.20 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Instrument :

MSVOA_L

ClientSampleId :

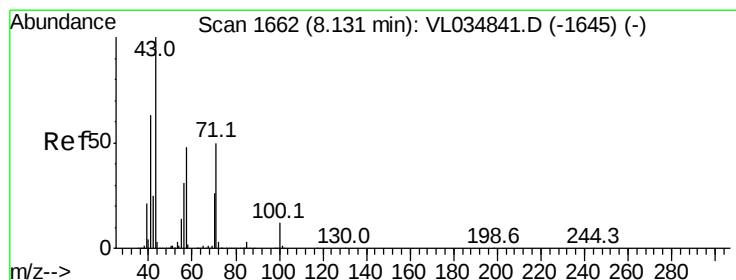
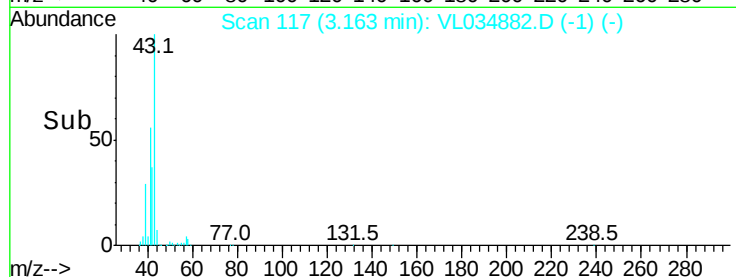
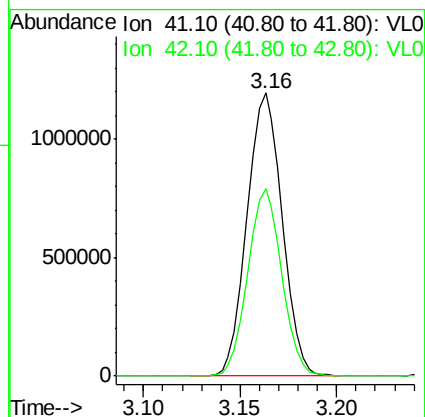
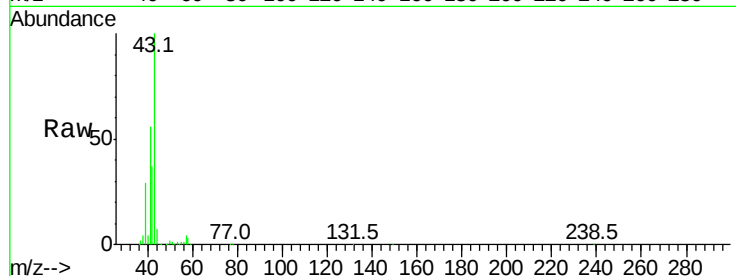
O-1DLDP

Tgt Ion: 41 Resp: 1511662

Ion Ratio Lower Upper

41 100

42 64.1 55.2 82.8



#10

Heptane

Concen: 6.254 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL034882.D

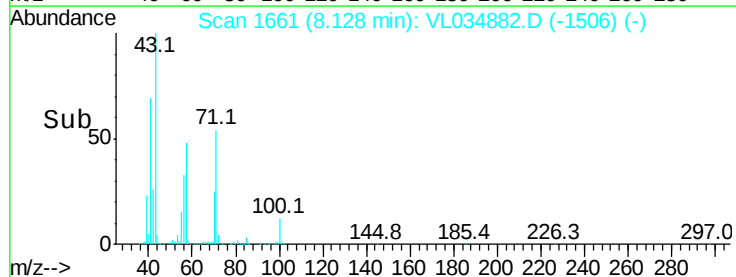
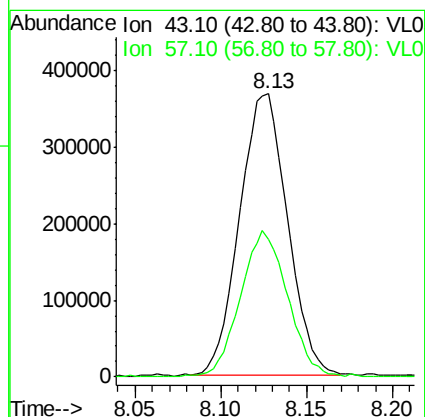
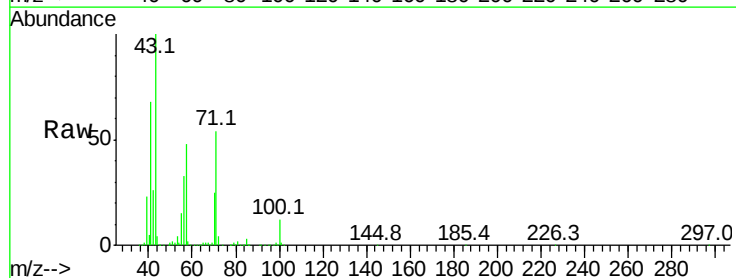
Acq: 11 Mar 2020 8:59

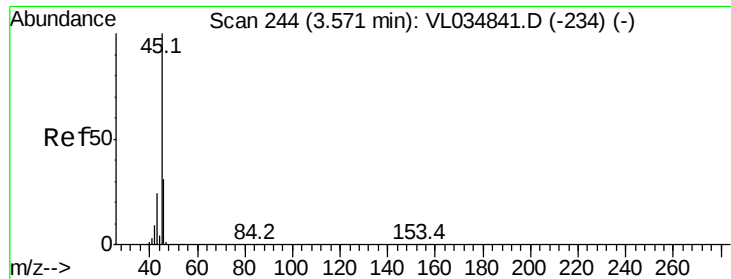
Tgt Ion: 43 Resp: 709488

Ion Ratio Lower Upper

43 100

57 50.9 39.7 59.5





#13

Ethanol

Concen: 43.511 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Instrument :

MSVOA_L

ClientSampleId :

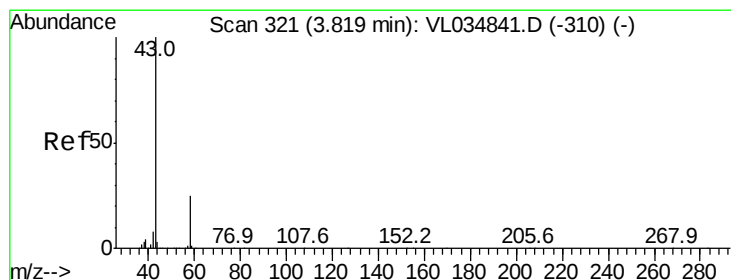
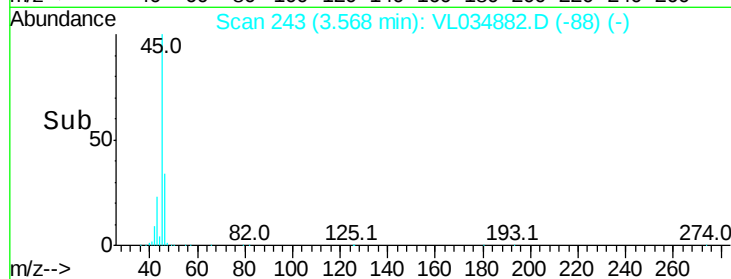
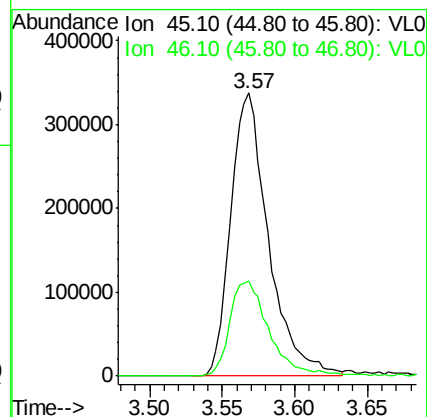
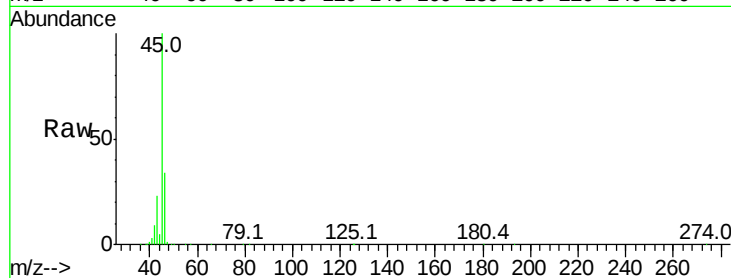
O-1DLDP

Tgt Ion: 45 Resp: 609773

Ion Ratio Lower Upper

45 100

46 35.2 16.0 64.0



#15

Acetone

Concen: 17.253 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL034882.D

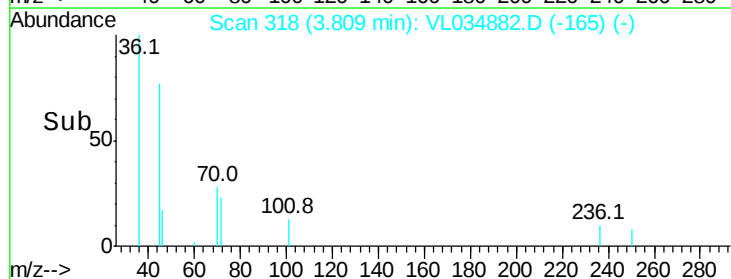
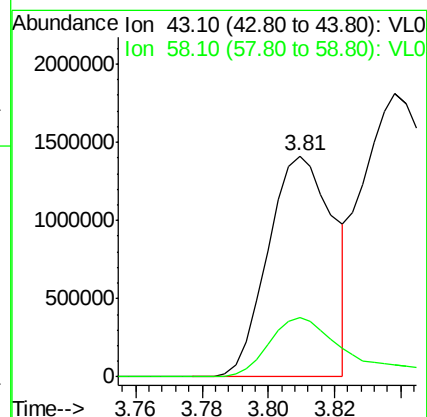
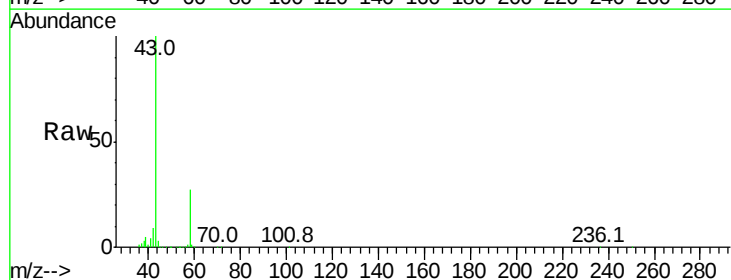
Acq: 11 Mar 2020 8:59

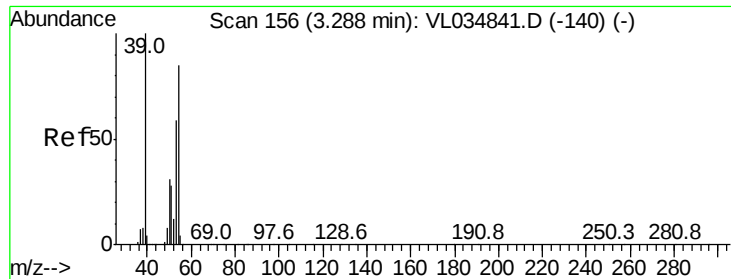
Tgt Ion: 43 Resp: 1932674

Ion Ratio Lower Upper

43 100

58 32.8 21.0 31.6#

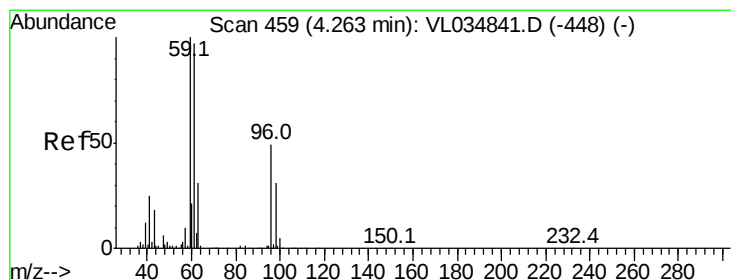
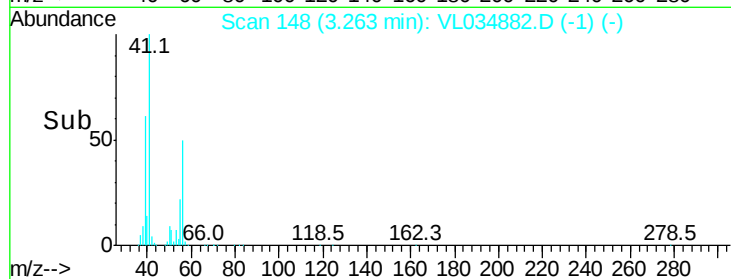
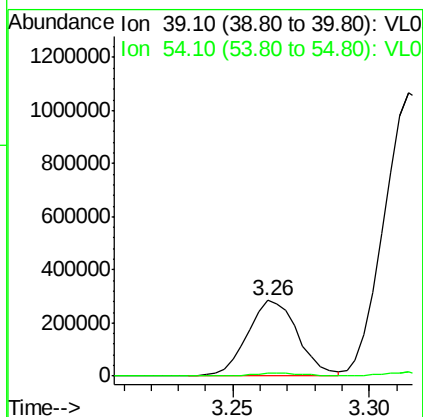
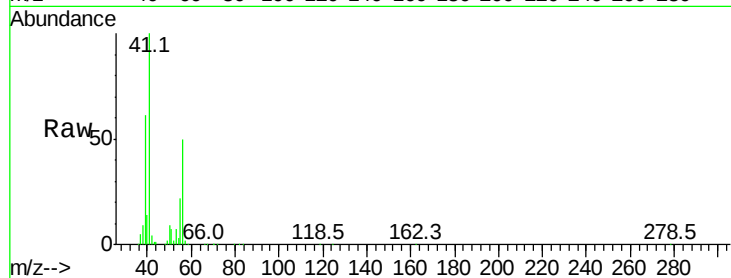




#16
 1,3-Butadiene
 Concen: 7.116 ppbv
 RT: 3.26 min Scan# 148
 Delta R.T. -0.03 min
 Lab File: VL034882.D
 Acq: 11 Mar 2020 8:59

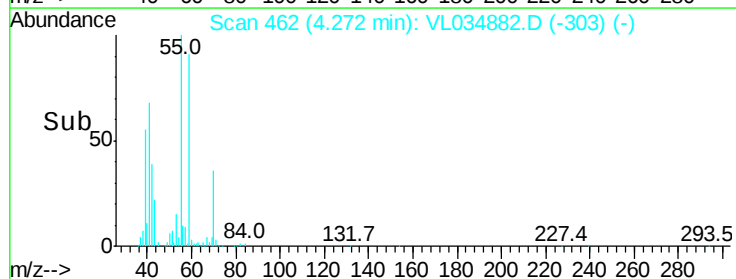
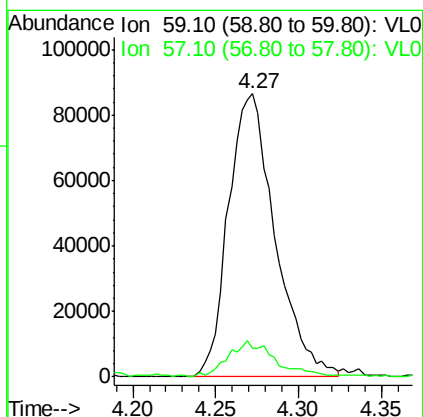
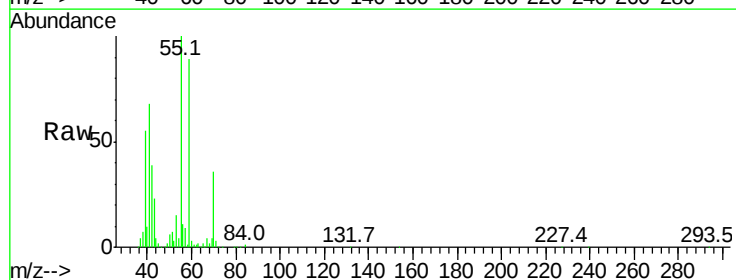
Instrument :
 MSVOA_L
 ClientSampleId :
 O-1DLDP

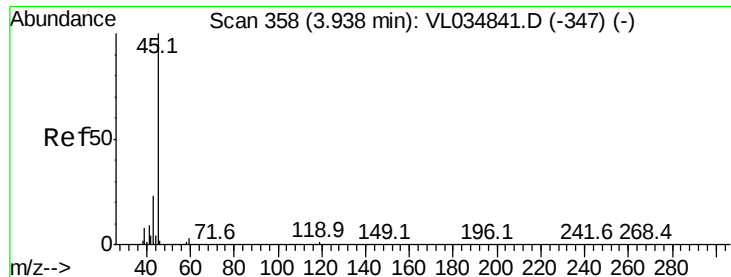
Tgt Ion: 39 Resp: 360491
 Ion Ratio Lower Upper
 39 100
 54 4.3 65.0 97.6#



#17
 tert-Butyl alcohol
 Concen: 1.566 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL034882.D
 Acq: 11 Mar 2020 8:59

Tgt Ion: 59 Resp: 169002
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 1.166 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Instrument :

MSVOA_L

ClientSampleId :

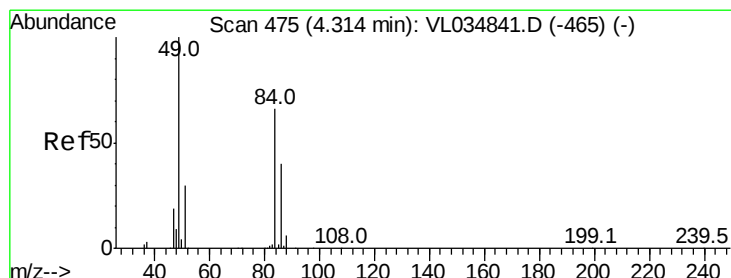
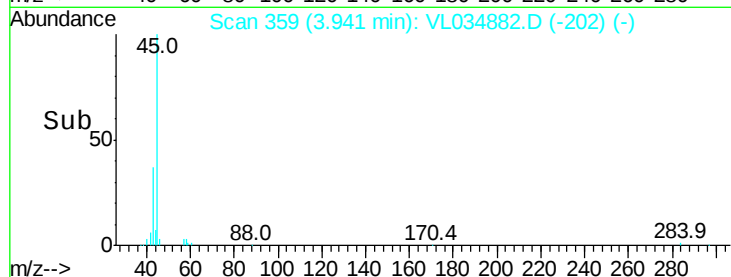
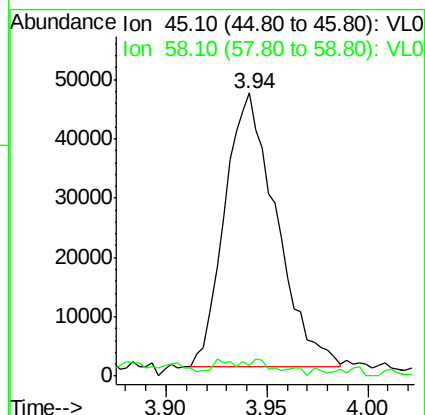
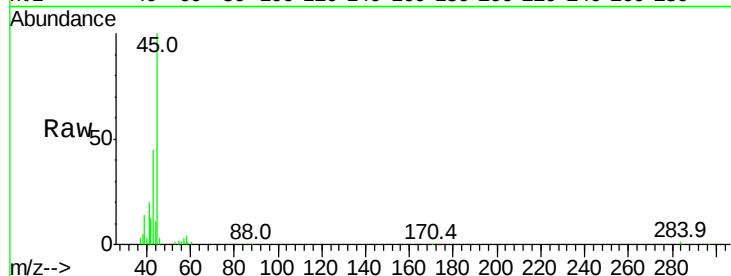
O-1DLDP

Tgt Ion: 45 Resp: 82450

Ion Ratio Lower Upper

45 100

58 768.4 30.5 45.7#



#20

Methylene Chloride

Concen: 2.175 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Tgt Ion: 84 Resp: 77045

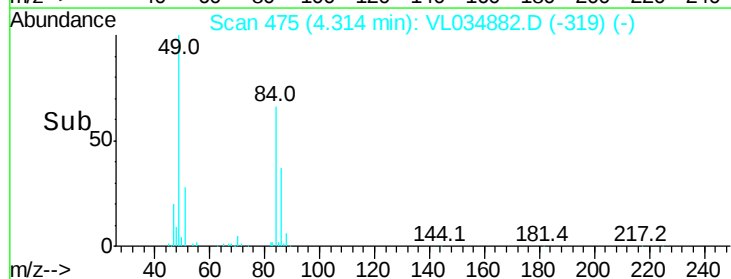
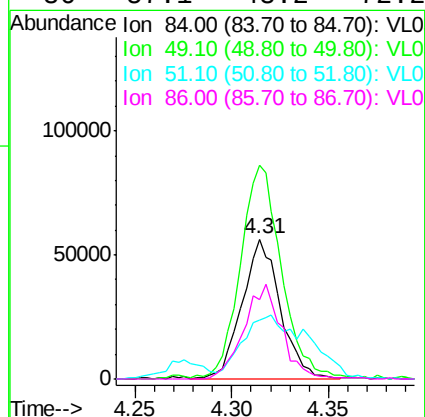
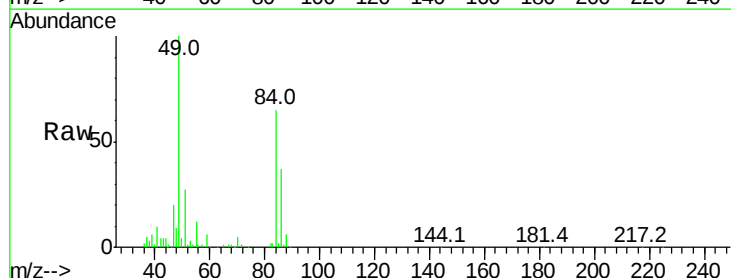
Ion Ratio Lower Upper

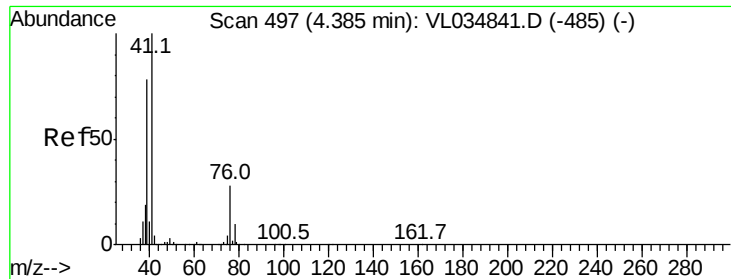
84 100

49 152.3 121.5 182.3

51 32.5 36.6 55.0#

86 57.1 48.2 72.2

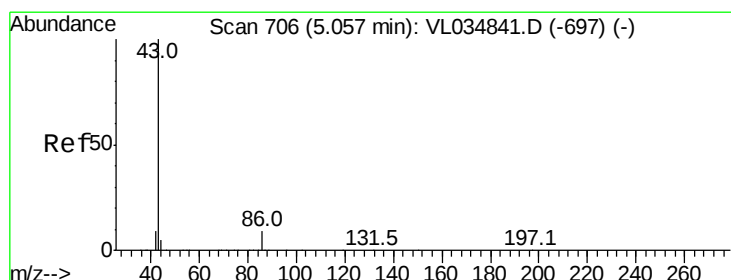
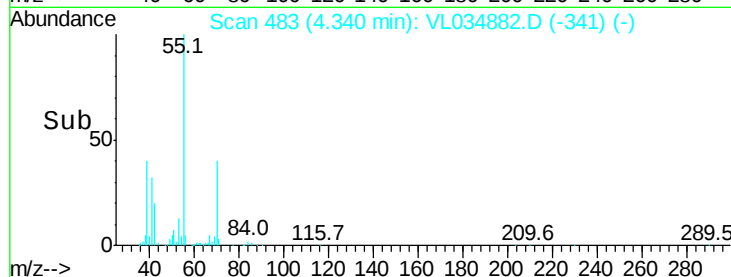
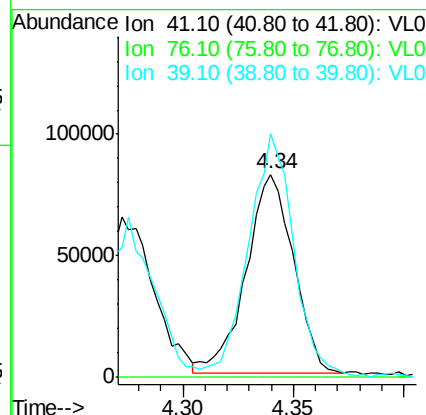
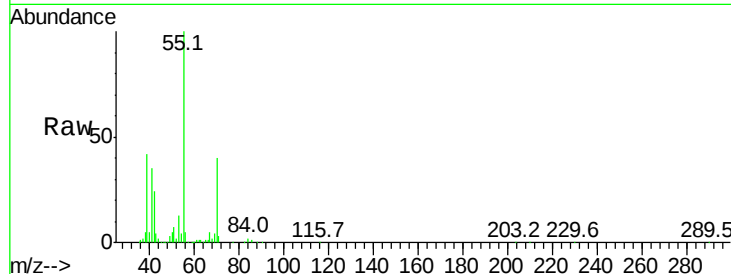




#21
 Allyl Chloride
 Concen: 1.698 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.04 min
 Lab File: VL034882.D
 Acq: 11 Mar 2020 8:59

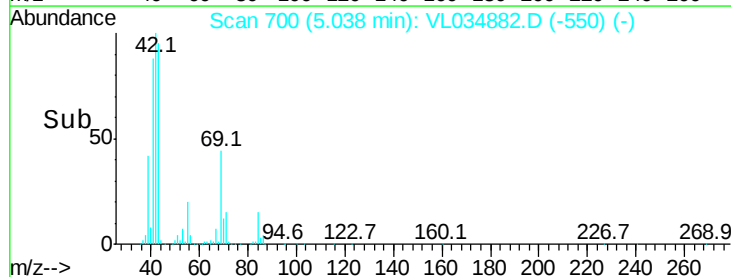
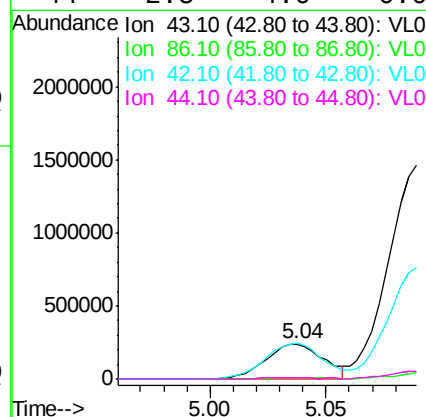
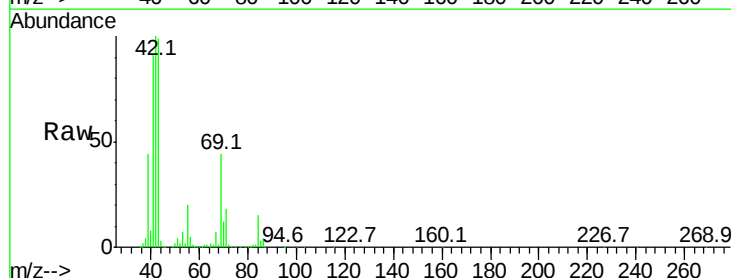
Instrument :
 MSVOA_L
 ClientSampleId :
 O-1DLDP

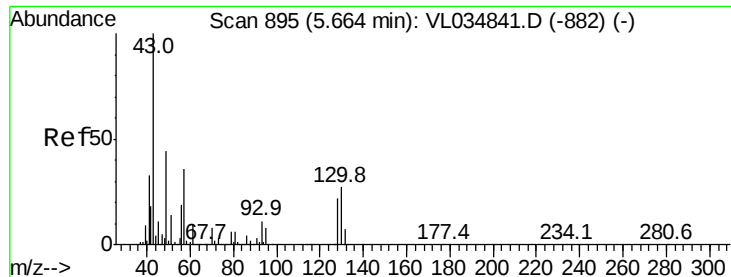
Tgt Ion: 41 Resp: 122165
 Ion Ratio Lower Upper
 41 100
 76 2.2 22.2 33.2#
 39 114.4 62.6 93.8#



#23
 Vinyl Acetate
 Concen: 2.462 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. -0.02 min
 Lab File: VL034882.D
 Acq: 11 Mar 2020 8:59

Tgt Ion: 43 Resp: 407367
 Ion Ratio Lower Upper
 43 100
 86 3.8 6.3 9.5#
 42 100.7 7.8 11.8#
 44 2.5 4.0 6.0#



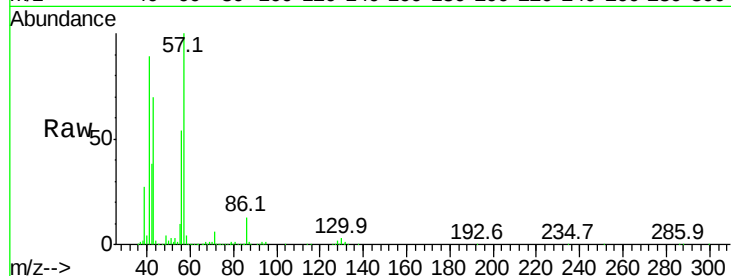


#25
Ethyl Acetate
Concen: 9.708 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL034882.D
Acq: 11 Mar 2020 8:59

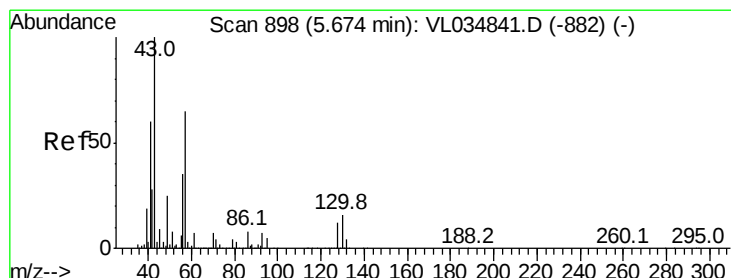
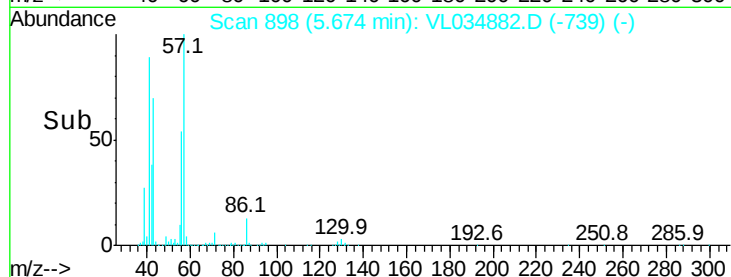
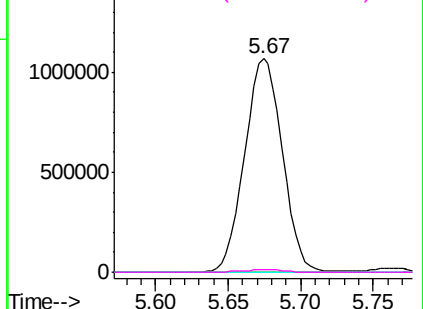
Instrument :
MSVOA_L
ClientSampleId :
O-1DLDP

Tgt Ion: 43 Resp: 1937480

Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.2#
61	0.2	7.8	11.6#
70	1.5	5.8	8.8#



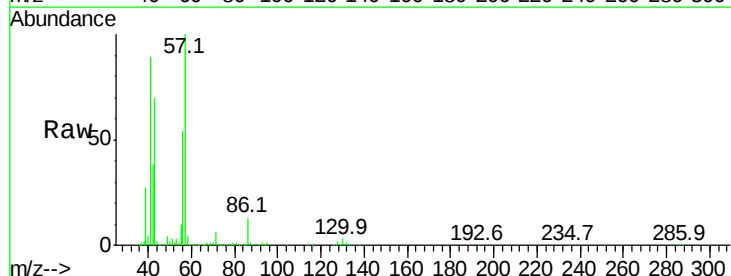
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



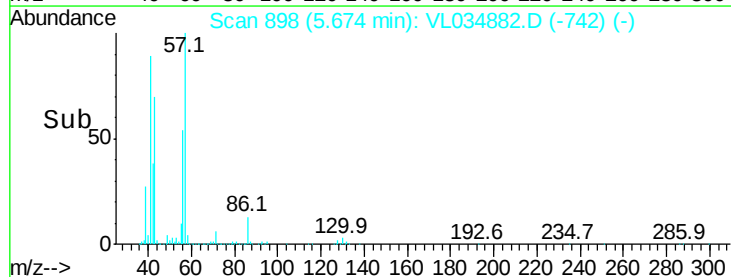
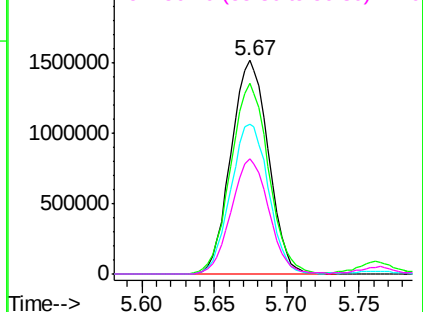
#26
Hexane
Concen: 31.560 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034882.D
Acq: 11 Mar 2020 8:59

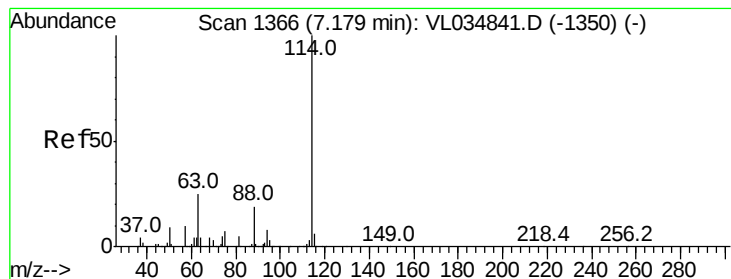
Tgt Ion: 57 Resp: 2712291

Ion	Ratio	Lower	Upper
57	100		
41	91.6	72.6	109.0
43	71.4	183.8	275.6#
56	54.3	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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Instrument :

MSVOA_L

ClientSampleId :

O-1DLDP

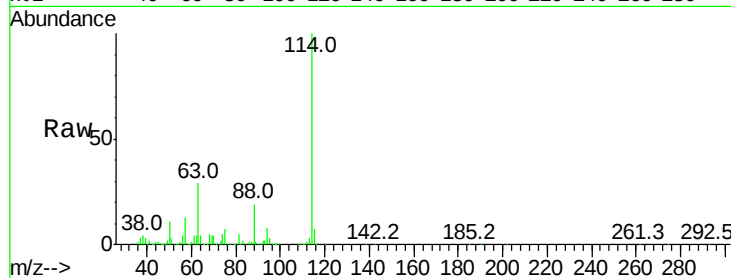
Tgt Ion:114 Resp: 1974170

Ion Ratio Lower Upper

114 100

63 26.9 20.6 31.0

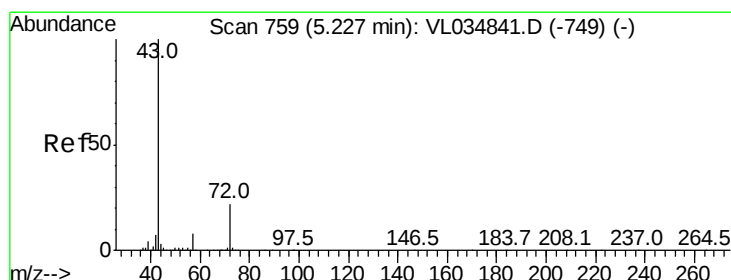
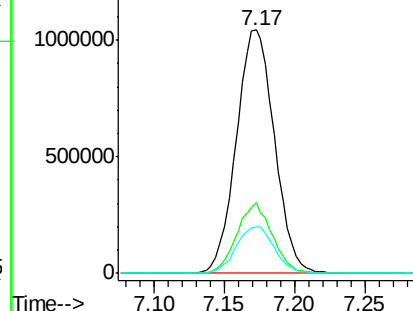
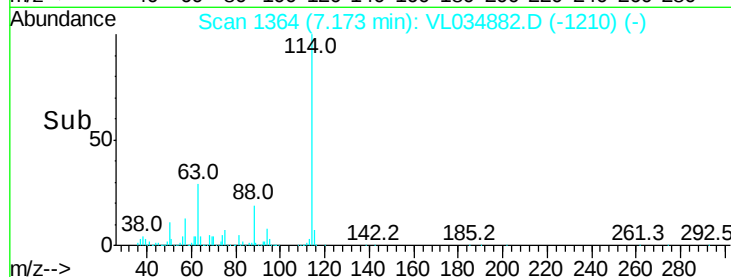
88 19.1 15.0 22.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.210 ppbv

RT: 5.22 min Scan# 758

Delta R.T. -0.00 min

Lab File: VL034882.D

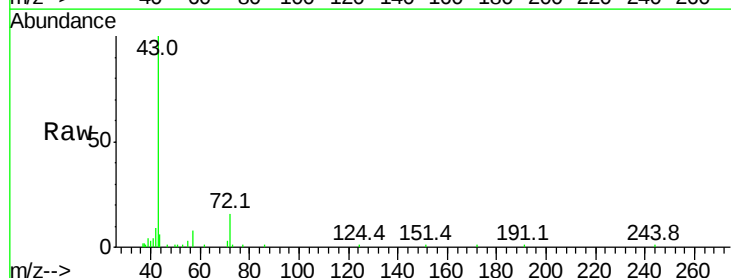
Acq: 11 Mar 2020 8:59

Tgt Ion: 43 Resp: 27533

Ion Ratio Lower Upper

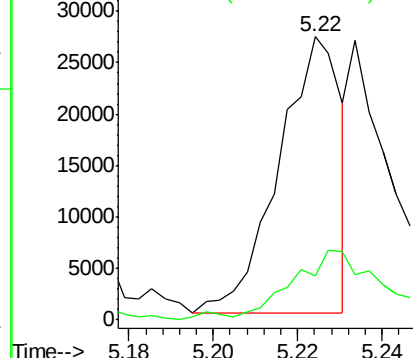
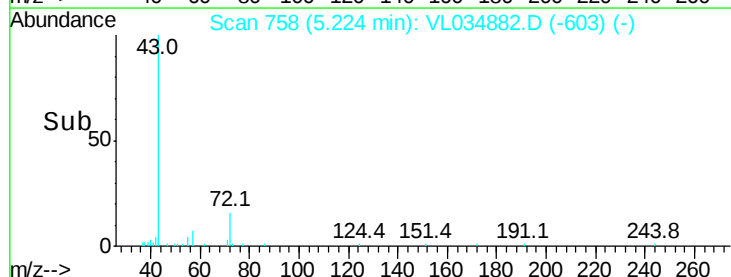
43 100

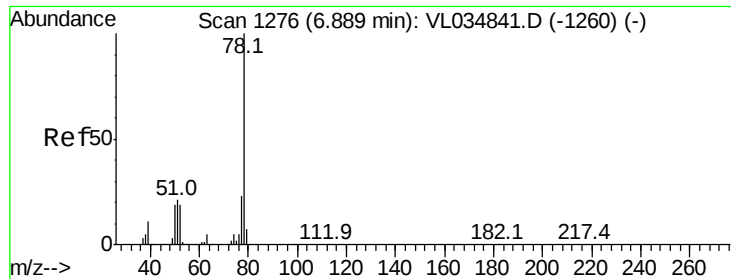
72 39.5 17.6 26.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.095 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

Instrument :

MSVOA_L

ClientSampleId :

O-1DLDP

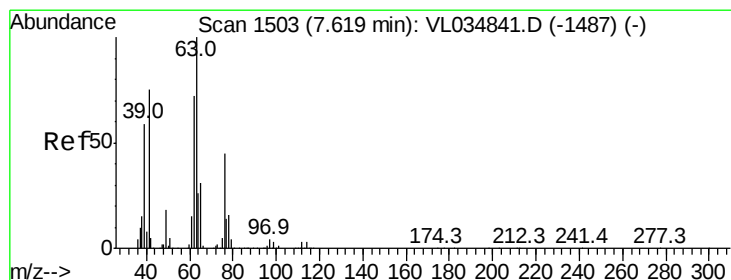
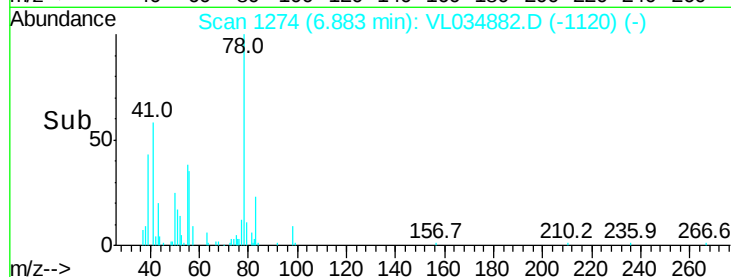
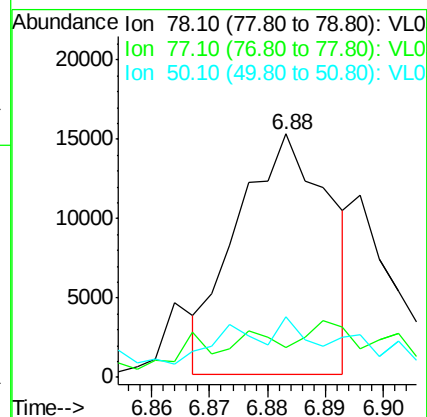
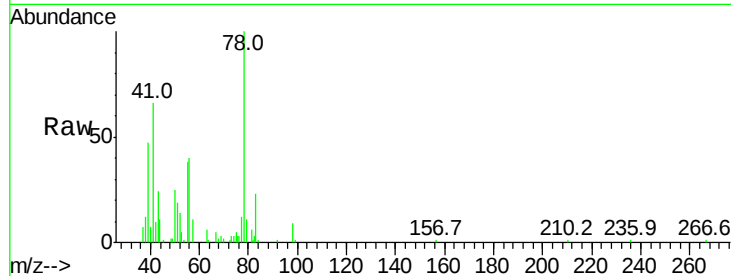
Tgt Ion: 78 Resp: 16777

Ion Ratio Lower Upper

78 100

77 0.0 18.2 27.2#

50 18.7 15.2 22.8



#39

1,2-Dichloropropane

Concen: 7.574 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL034882.D

Acq: 11 Mar 2020 8:59

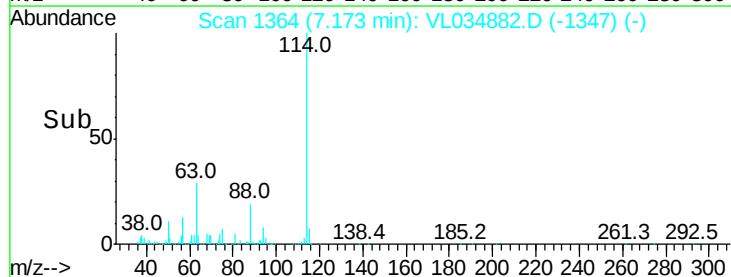
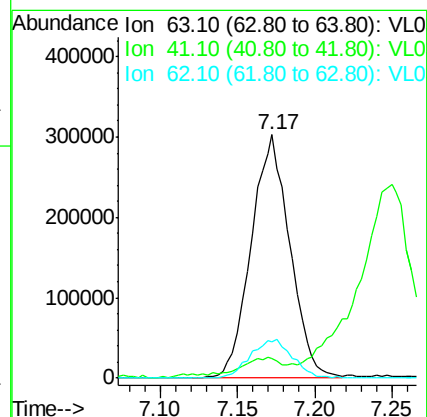
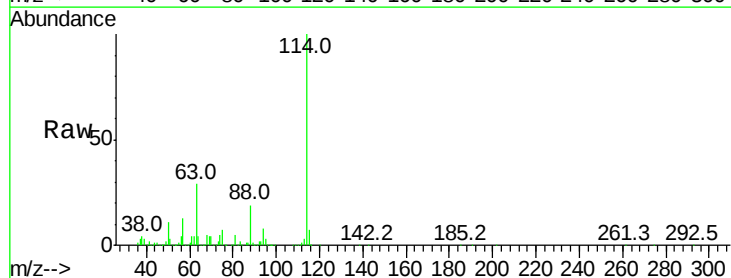
Tgt Ion: 63 Resp: 528080

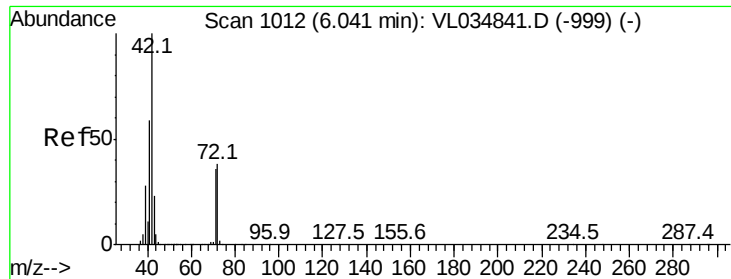
Ion Ratio Lower Upper

63 100

41 6.4 59.8 89.8#

62 15.1 57.6 86.4#

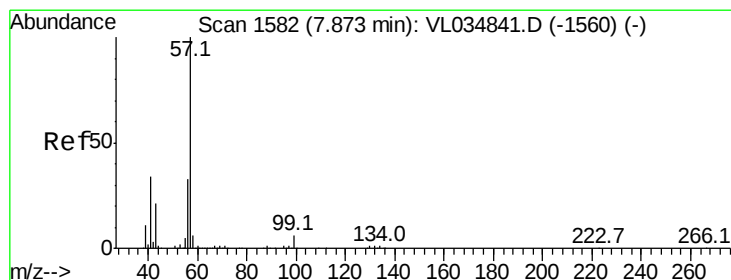
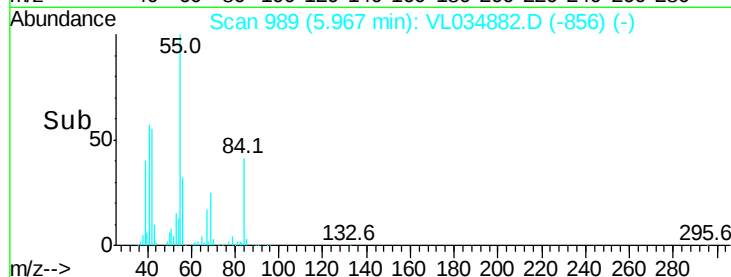
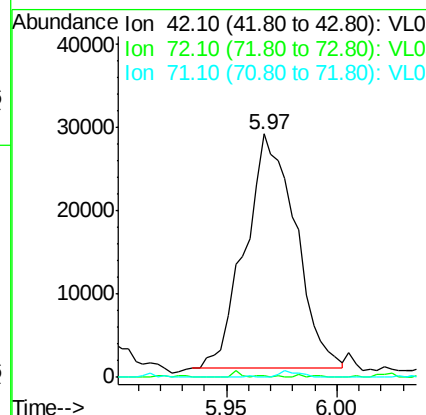
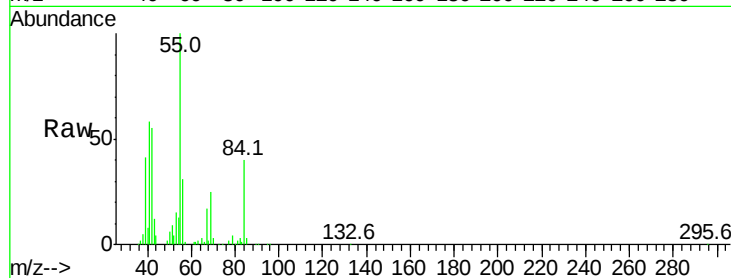




#41
Tetrahydrofuran
Concen: 0.632 ppbv
RT: 5.97 min Scan# 989
Delta R.T. -0.07 min
Lab File: VL034882.D
Acq: 11 Mar 2020 8:59

Instrument :
MSVOA_L
ClientSampleId :
O-1DLDP

Tgt Ion: 42 Resp: 44899
Ion Ratio Lower Upper
42 100
72 2.7 30.8 46.2#
71 0.0 30.1 45.1#



#44
2,2,4-Trimethylpentane
Concen: 0.127 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL034882.D
Acq: 11 Mar 2020 8:59

Tgt Ion: 57 Resp: 37718
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.4#
56 97.4 25.0 37.4#

