

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040522\
 Data File : VL038831.D
 Acq On : 6 Apr 2022 13:06
 Operator : SY/AP
 Sample : N2235-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 07 03:11:43 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1315683	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3408925	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3047585	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2343345	10.14	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

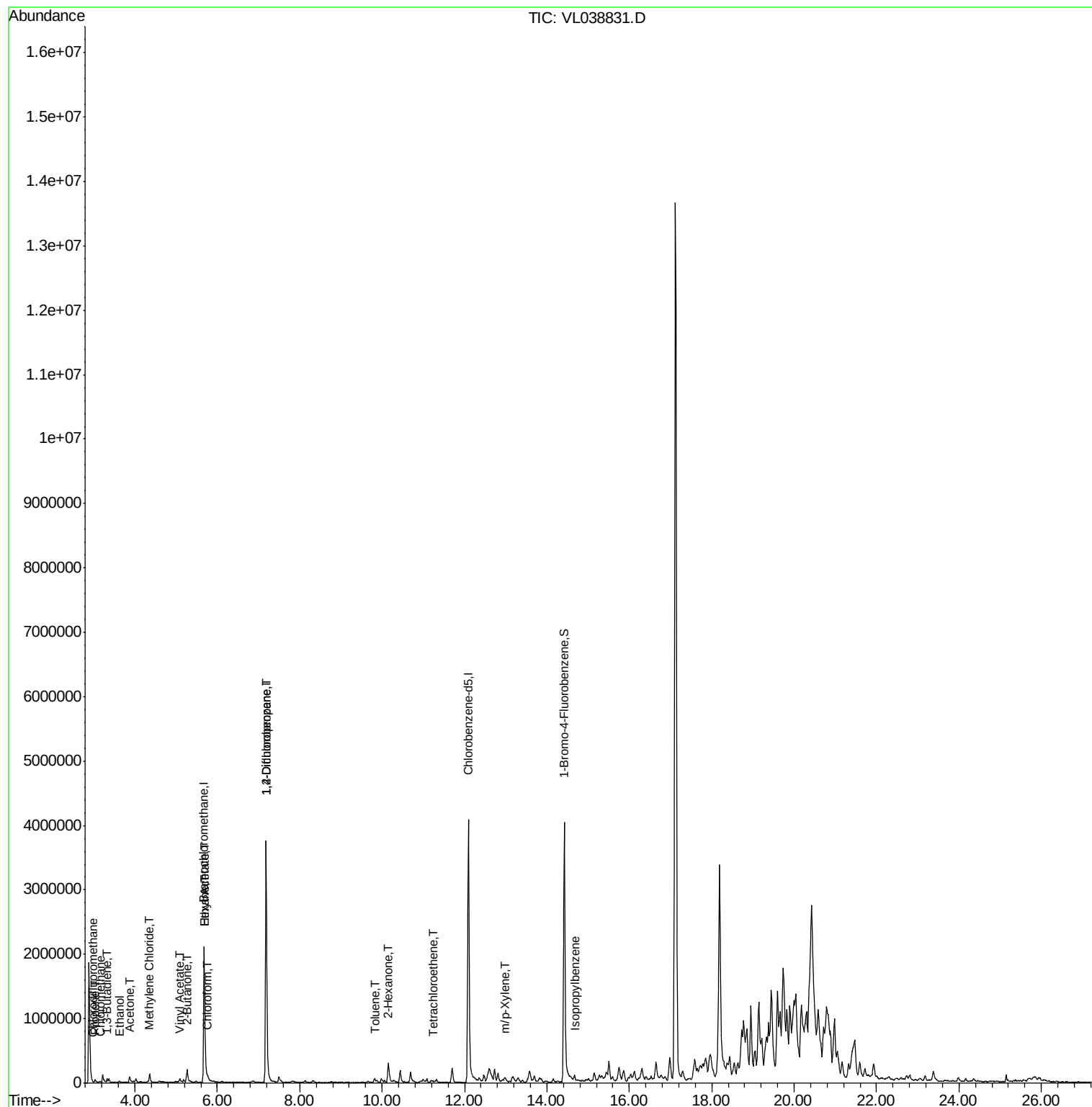
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	8006	0.050 ppbv	94
4) Chloromethane	3.15	50	9545	0.115 ppbv #	81
9) Propene	3.02	41	15667	0.184 ppbv	95
13) Ethanol	3.63	45	23775	4.605 ppbv #	100
15) Acetone	3.87	43	89367	0.682 ppbv #	48
16) 1,3-Butadiene	3.33	39	7317	0.098 ppbv #	37
20) Methylene Chloride	4.36	84	46264	0.974 ppbv	90
23) Vinyl Acetate	5.09	43	76940	0.603 ppbv #	96
25) Ethyl Acetate	5.70	43	14243	0.043 ppbv #	85
26) Hexane	5.70	57	32681	0.216 ppbv #	45
29) Chloroform	5.76	83	8073	0.038 ppbv	97
34) 2-Butanone	5.26	43	289317	2.148 ppbv	98
39) 1,2-Dichloropropane	7.19	63	832070	7.015 ppbv #	26
51) 2-Hexanone	10.15	43	309040	1.354 ppbv	97
52) Tetrachloroethene	11.23	164	3267	0.030 ppbv #	44
53) Toluene	9.81	91	27475	0.077 ppbv #	20
59) m/p-Xylene	13.00	91	13665	0.036 ppbv #	30
62) Isopropylbenzene	14.67	105	79827	0.149 ppbv	96

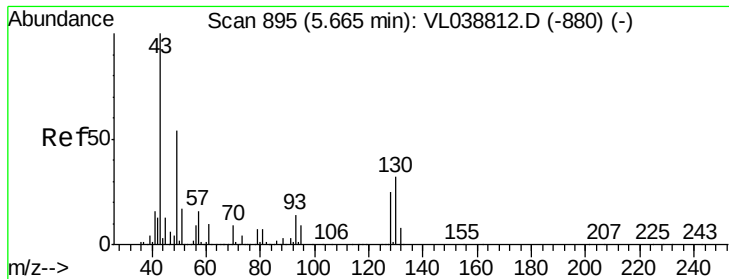
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 Apr 2022 13:00

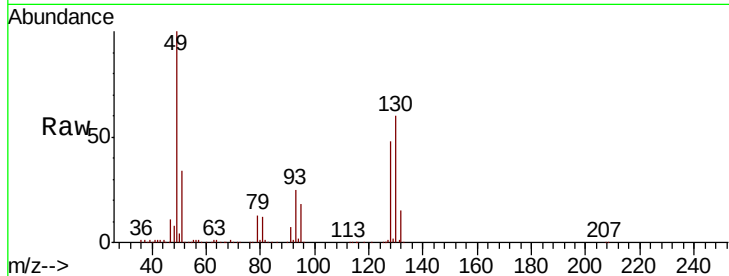
Tot Ion: 49 Resp: 1315683

Ion Ratio Lower Upper

49 100

128 47.1 24.1 72.3

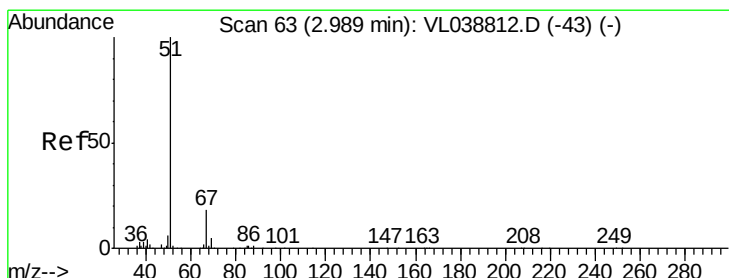
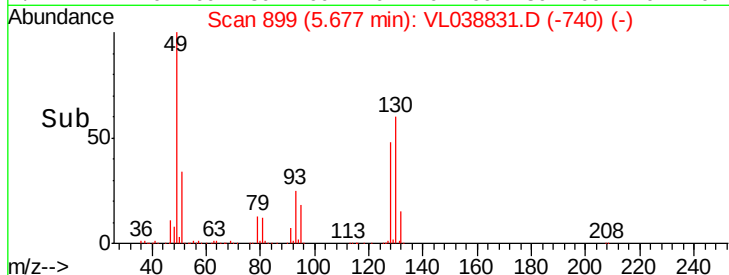
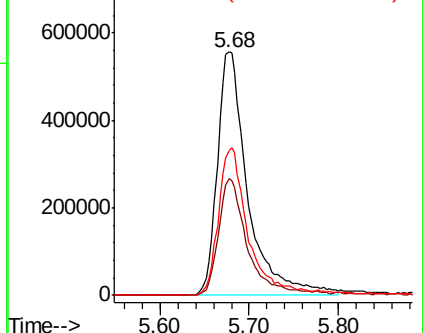
130 61.2 30.9 92.8



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



#3

Chlorodifluoromethane

Concen: 0.050 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL038831.D

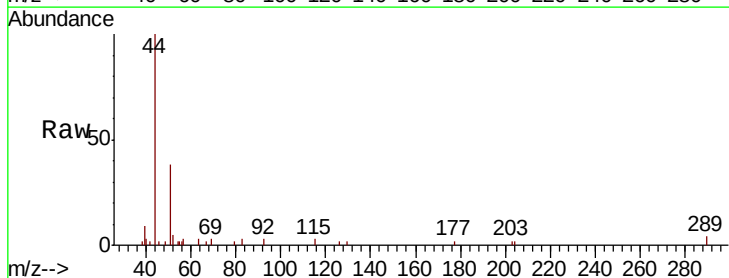
Acq: 6 Apr 2022 13:06

Tgt Ion: 51 Resp: 8006

Ion Ratio Lower Upper

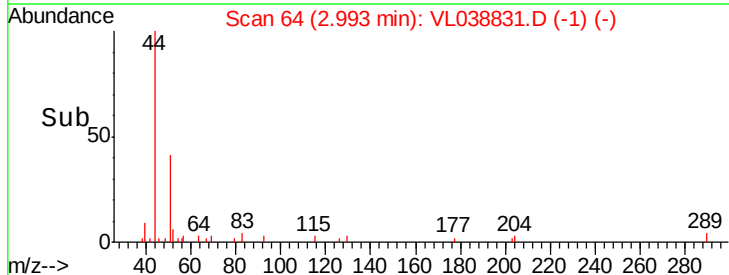
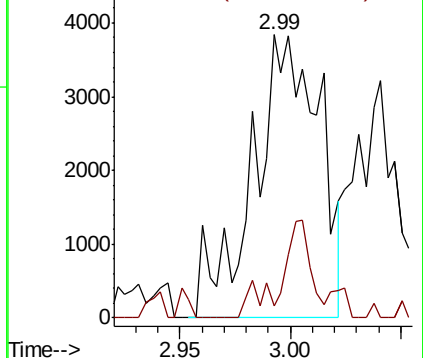
51 100

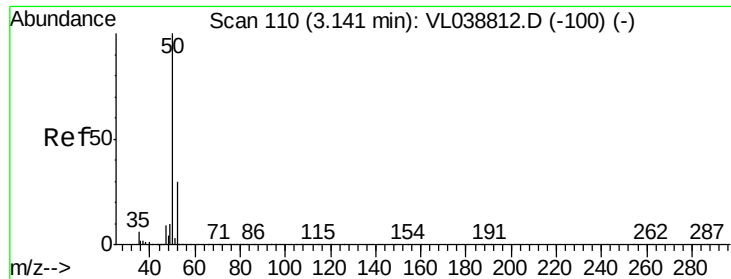
67 19.2 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.115 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

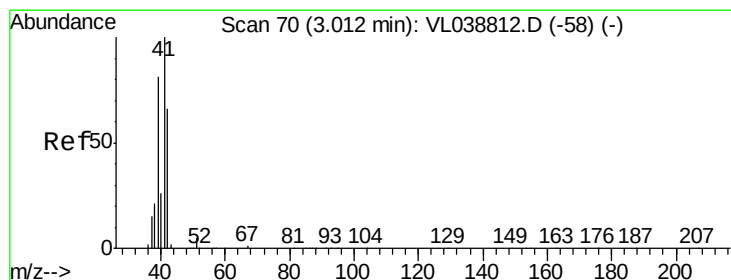
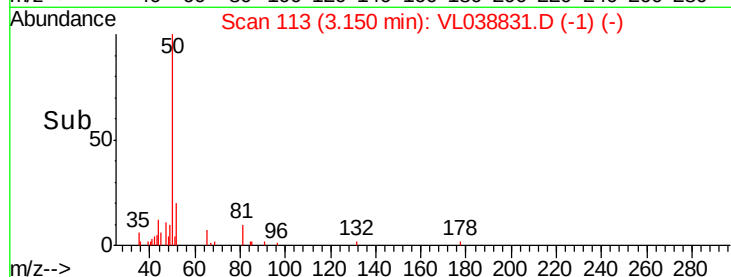
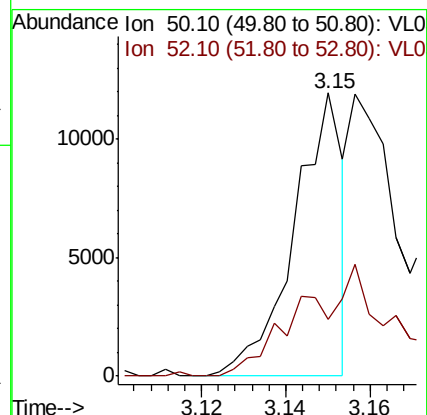
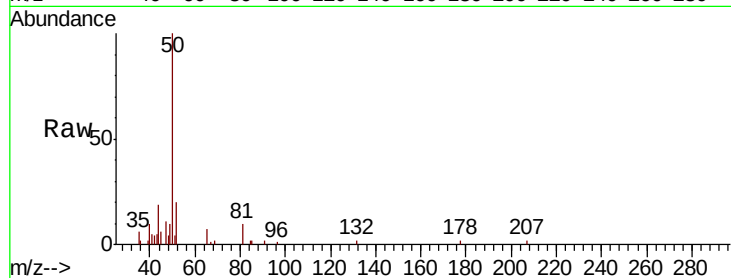
Acq: 6 Apr 2022 13:00

Tot Ion: 50 Resp: 9545

Ion Ratio Lower Upper

50 100

52 20.2 24.3 36.5#



#9

Propene

Concen: 0.184 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL038831.D

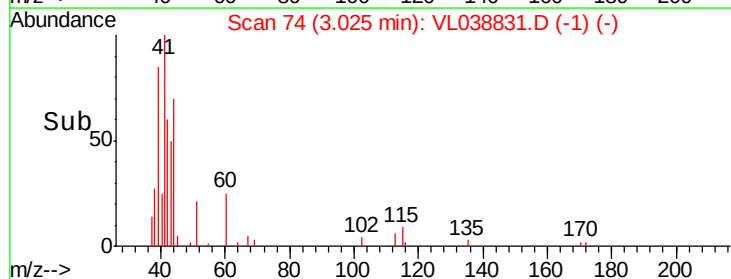
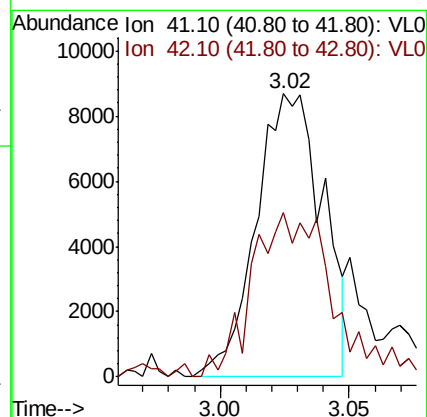
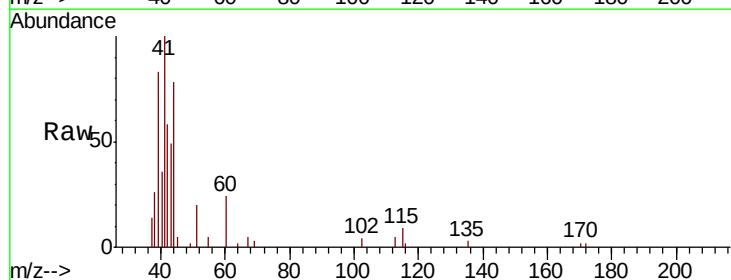
Acq: 6 Apr 2022 13:06

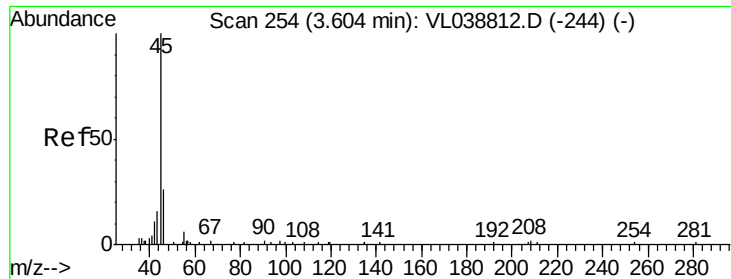
Tgt Ion: 41 Resp: 15667

Ion Ratio Lower Upper

41 100

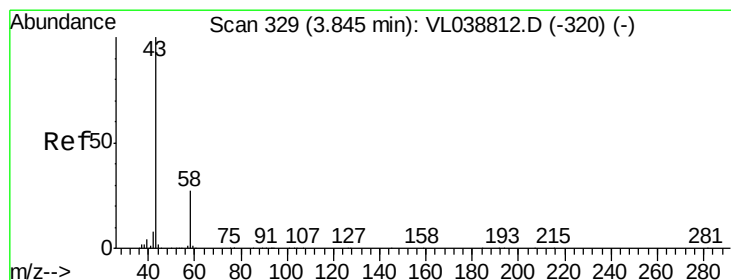
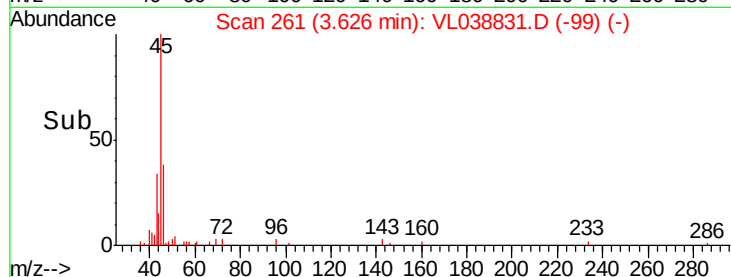
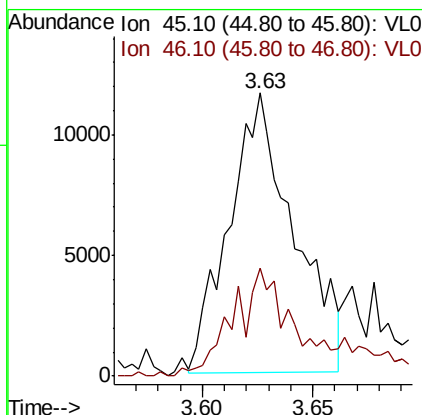
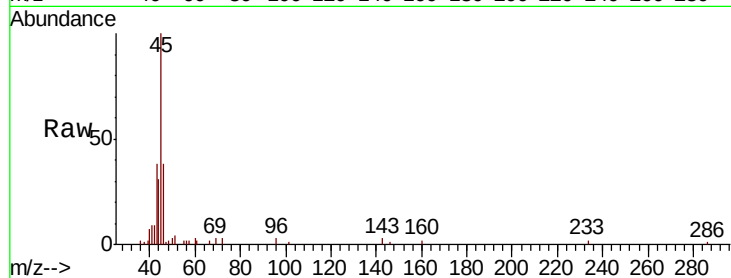
42 71.7 54.2 81.4





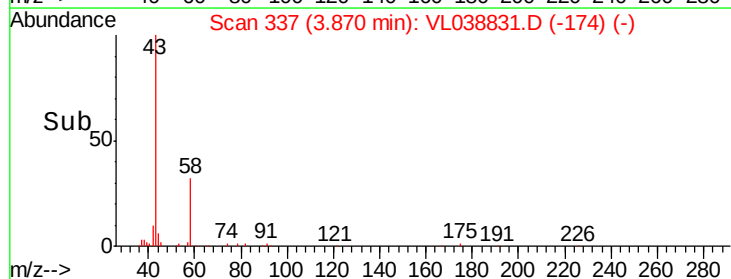
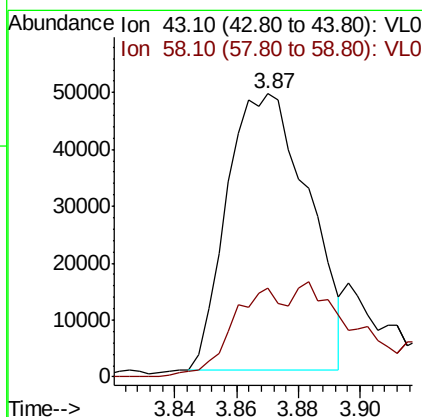
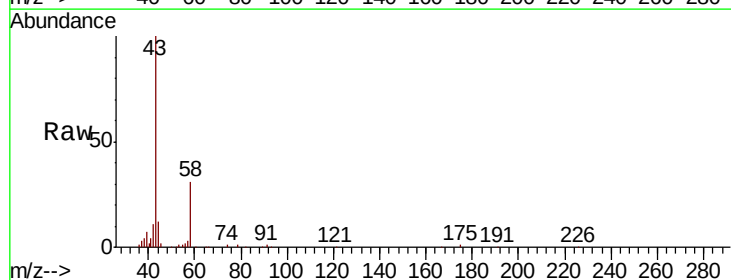
#13
 Ethanol
 Concen: 4.605 ppbv
 RT: 3.63
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Apr 2022 13:00

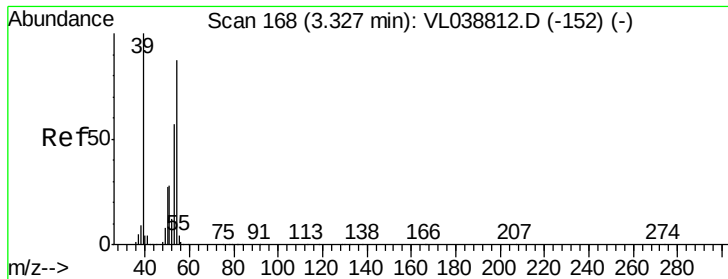
Tot Ion: 45 Resp: 23775
 Ion Ratio Lower Upper
 45 100
 46 44.6 0.0 0.0#



#15
 Acetone
 Concen: 0.682 ppbv
 RT: 3.87 min Scan# 337
 Delta R.T. 0.03 min
 Lab File: VL038831.D
 Acq: 6 Apr 2022 13:06

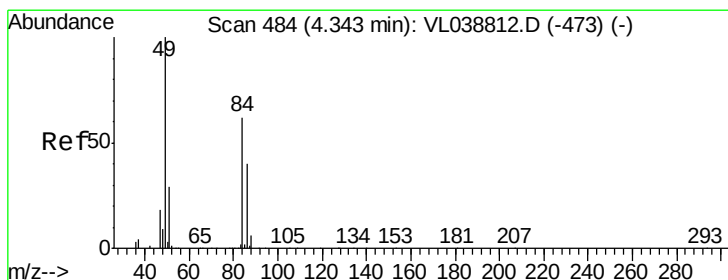
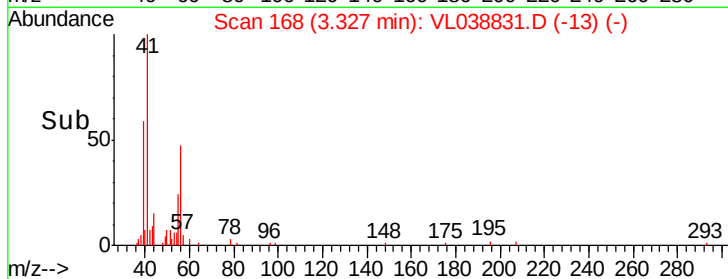
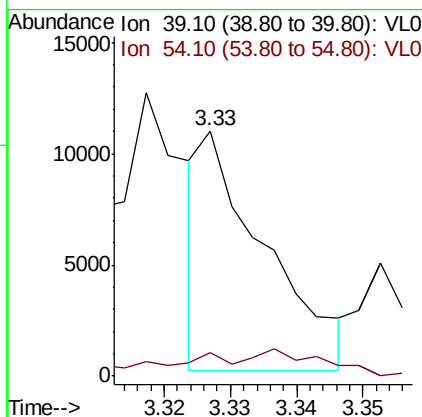
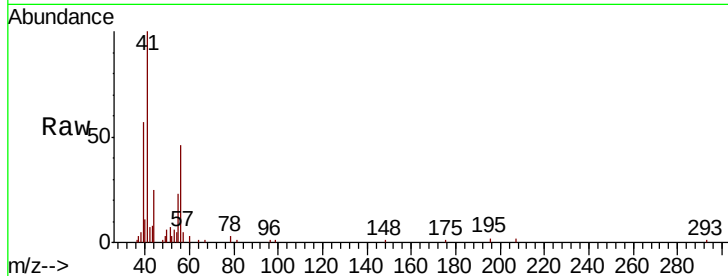
Tgt Ion: 43 Resp: 89367
 Ion Ratio Lower Upper
 43 100
 58 55.4 22.5 33.7#





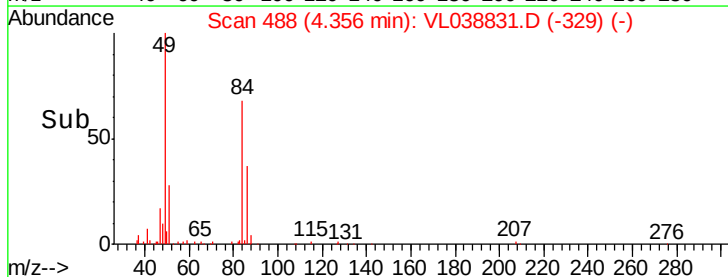
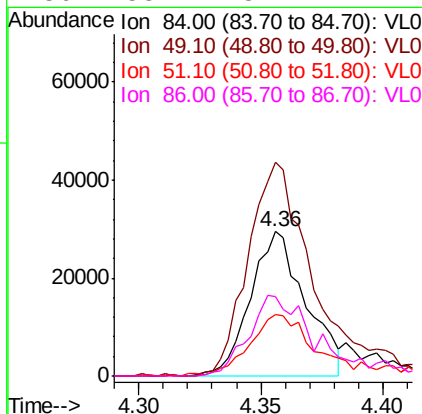
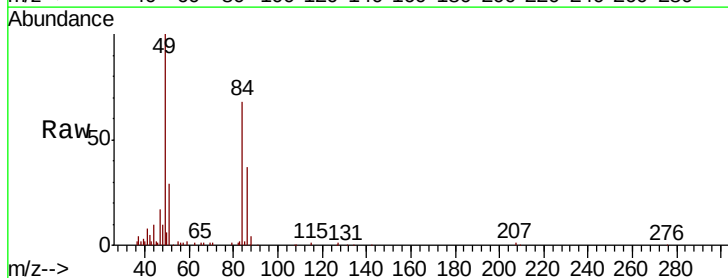
#16
 1,3-Butadiene
 Concen: 0.098 ppbv
 RT: 3.33 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Apr 2022 13:00

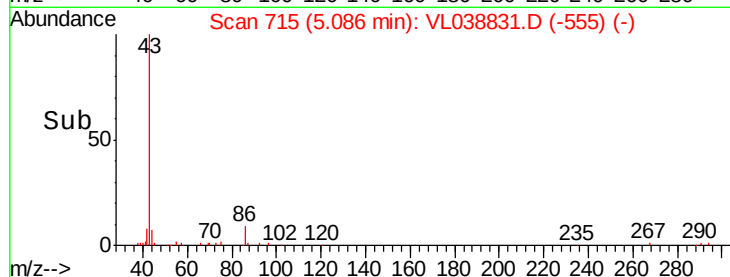
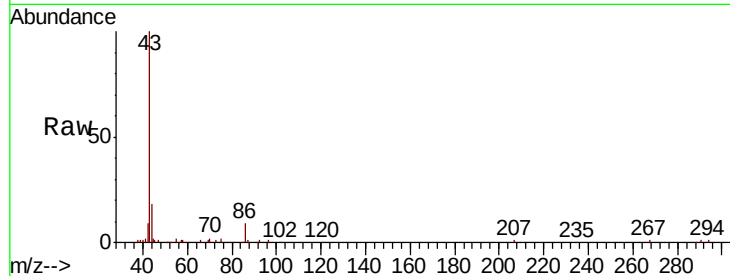
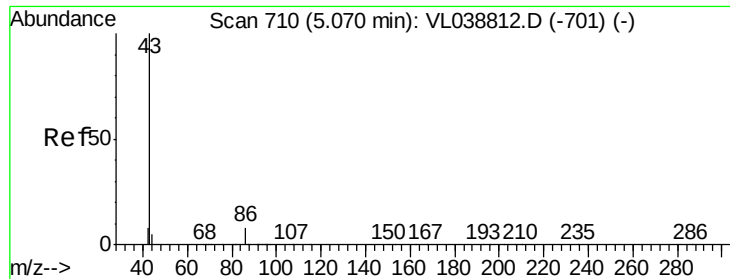
Tot Ion: 39 Resp: 7317
 Ion Ratio Lower Upper
 39 100
 54 24.8 64.8 97.2#



#20
 Methylene Chloride
 Concen: 0.974 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.01 min
 Lab File: VL038831.D
 Acq: 6 Apr 2022 13:06

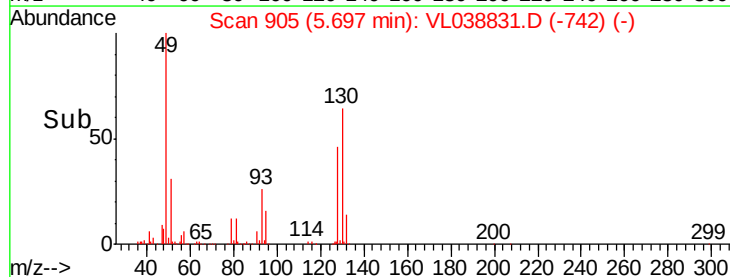
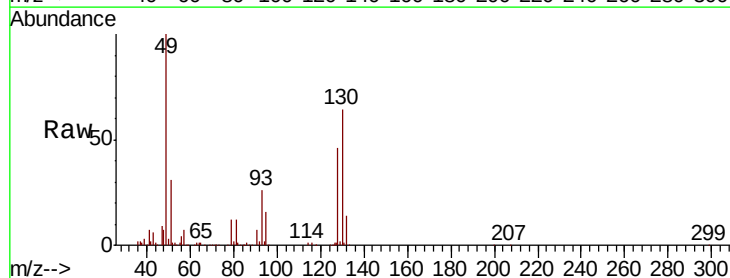
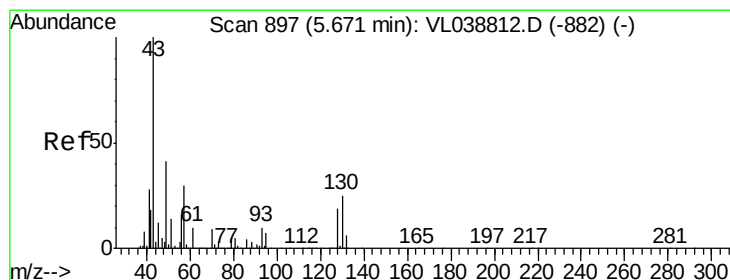
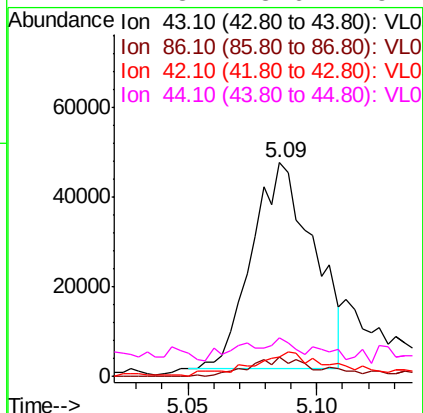
Tgt Ion: 84 Resp: 46264
 Ion Ratio Lower Upper
 84 100
 49 147.8 129.4 194.0
 51 41.1 37.4 56.2
 86 55.1 51.4 77.2





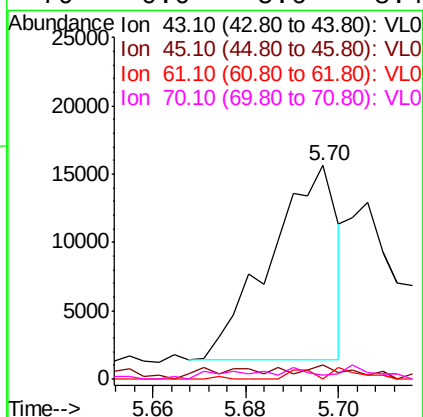
#23
 Vinyl Acetate
 Concen: 0.603 ppbv
 RT: 5.09
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Apr 2022 13:00

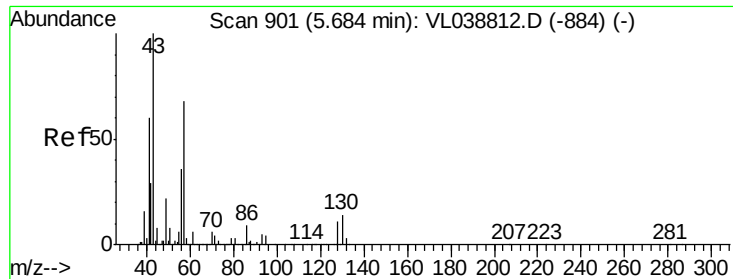
Tot Ion:	43	Resp:	76940
Ion	Ratio	Lower	Upper
43	100		
86	9.5	5.8	8.6#
42	9.4	7.8	11.6
44	7.3	3.6	5.4#



#25
 Ethyl Acetate
 Concen: 0.043 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. 0.03 min
 Lab File: VL038831.D
 Acq: 6 Apr 2022 13:06

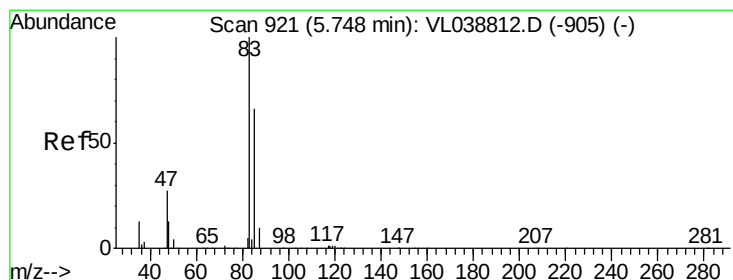
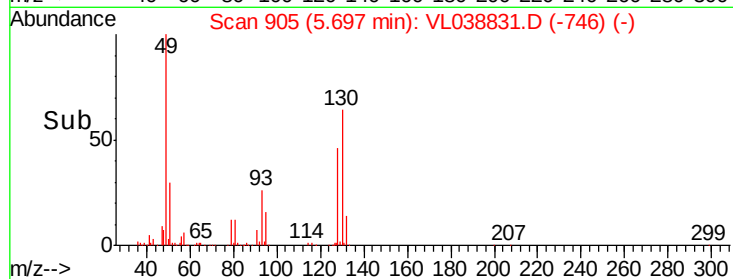
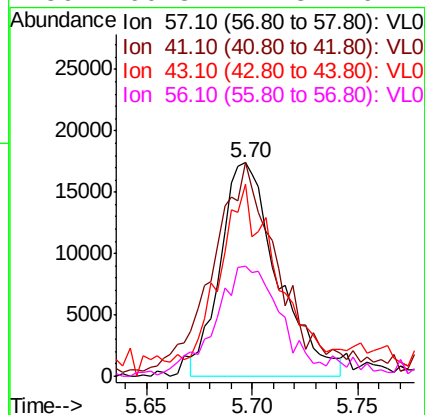
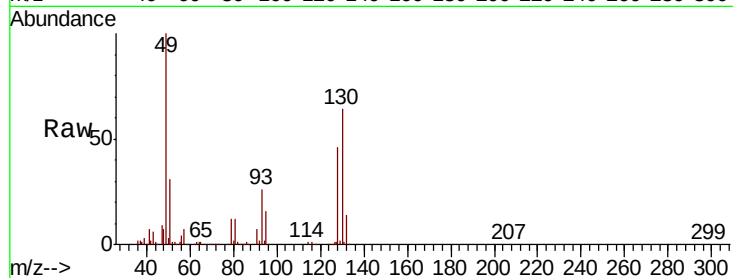
Tgt Ion:	43	Resp:	14243
Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.4	12.6
61	0.0	7.9	11.9#
70	0.0	5.6	8.4#





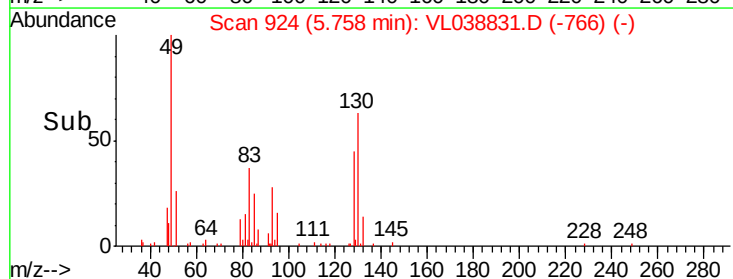
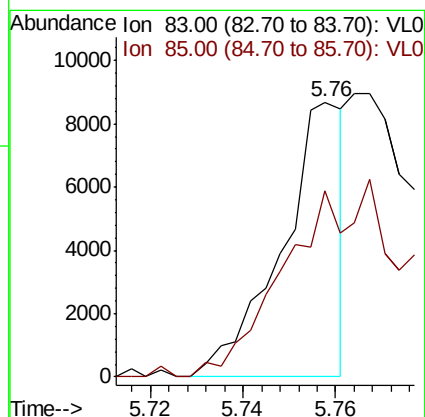
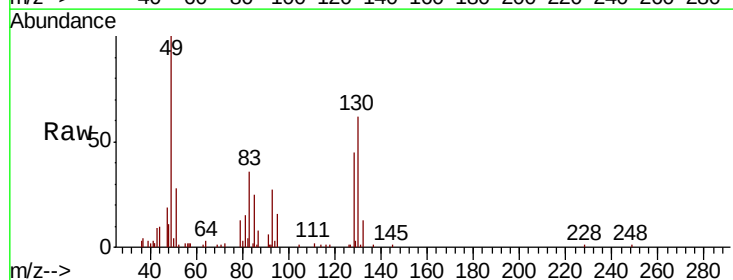
#26
Hexane
Concen: 0.216 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 6 Apr 2022 13:00

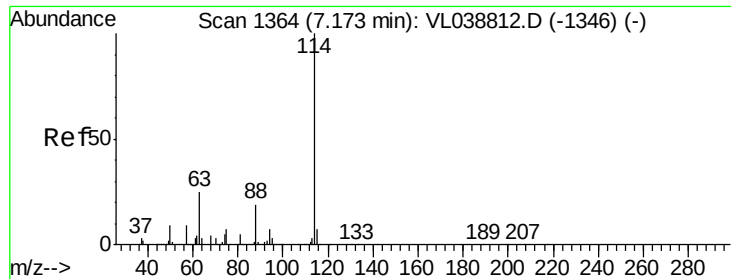
Tot Ion	57	Resp	32681
Ion	Ratio	Lower	Upper
57	100		
41	117.4	72.0	108.0#
43	110.5	186.6	280.0#
56	66.3	42.8	64.2#



#29
Chloroform
Concen: 0.038 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.01 min
Lab File: VL038831.D
Acq: 6 Apr 2022 13:06

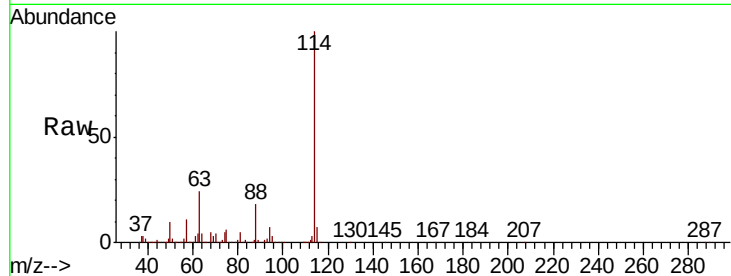
Tgt Ion	83	Resp	8073
Ion	Ratio	Lower	Upper
83	100		
85	67.9	52.5	78.7



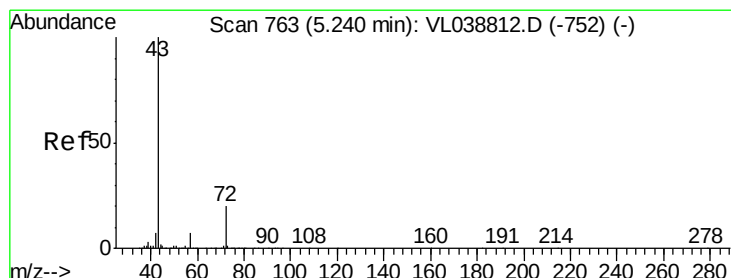
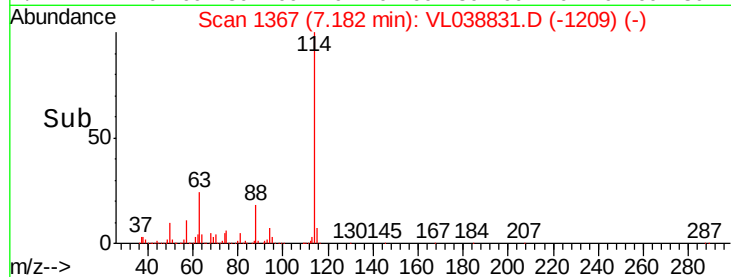
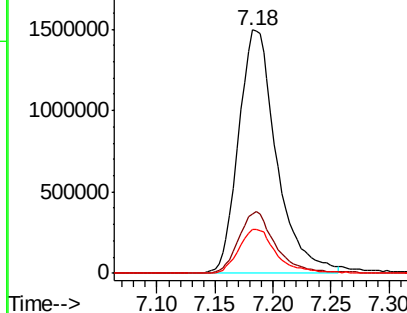


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 6 Apr 2022 13:00

Tot Ion:114 Resp: 3408925
 Ion Ratio Lower Upper
 114 100
 63 25.0 19.8 29.8
 88 18.3 14.2 21.4

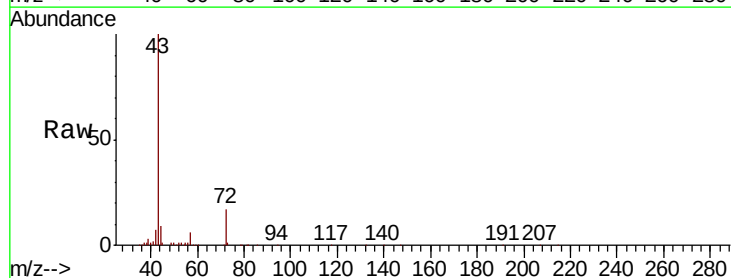


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

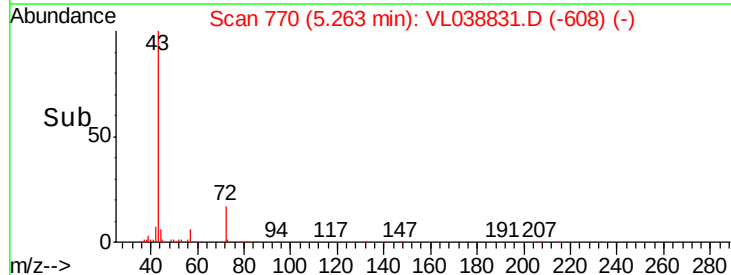
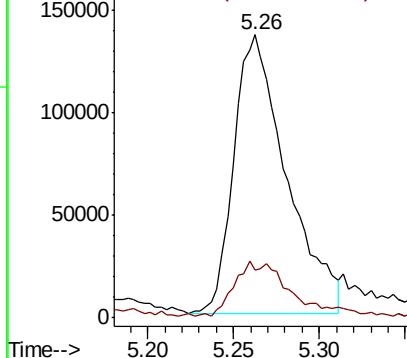


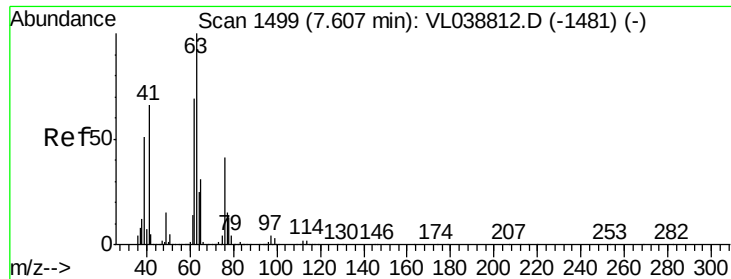
#34
 2-Butanone
 Concen: 2.148 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T.: 0.02 min
 Lab File: VL038831.D
 Acq: 6 Apr 2022 13:06

Tgt Ion: 43 Resp: 289317
 Ion Ratio Lower Upper
 43 100
 72 22.1 16.9 25.3



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





#39

1,2-Dichloropropane

Concen: 7.015 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 Apr 2022 13:00

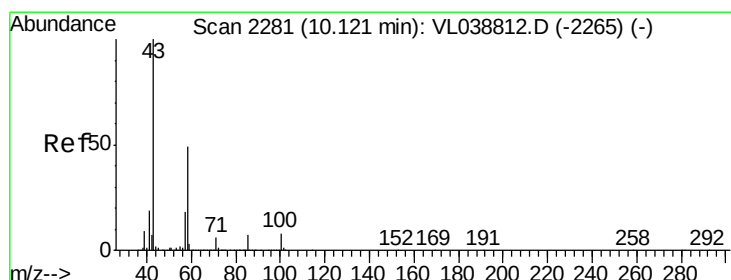
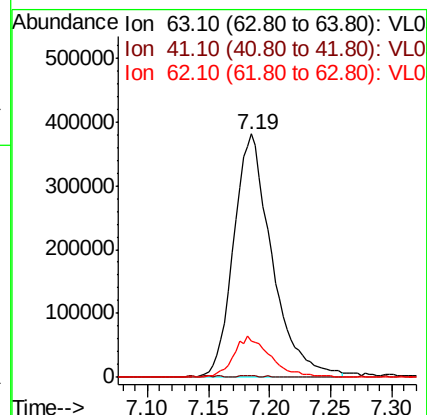
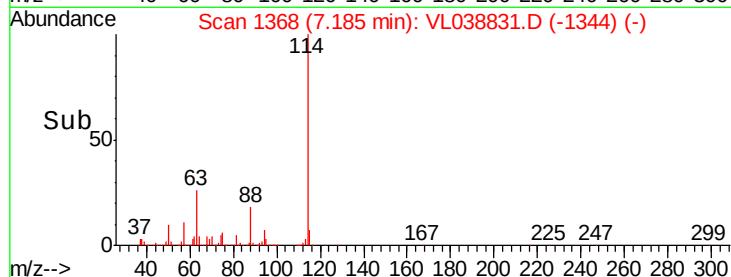
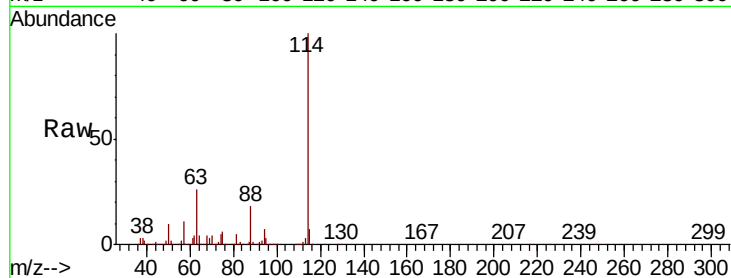
Tot Ion: 63 Resp: 832070

Ion Ratio Lower Upper

63 100

41 0.3 53.0 79.6#

62 14.9 55.0 82.4#



#51

2-Hexanone

Concen: 1.354 ppbv

RT: 10.15 min Scan# 2289

Delta R.T. 0.03 min

Lab File: VL038831.D

Acq: 6 Apr 2022 13:06

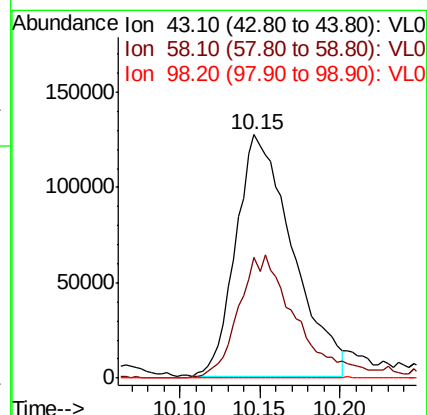
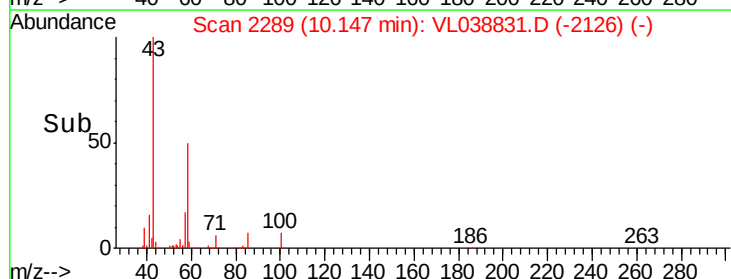
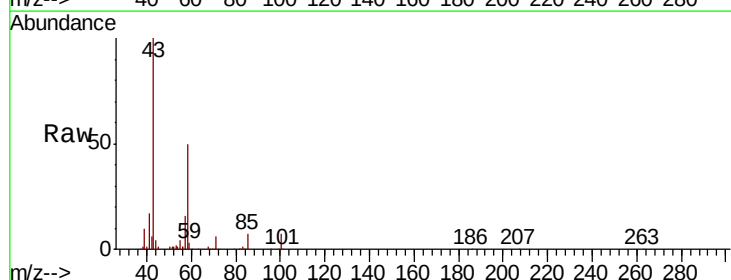
Tgt Ion: 43 Resp: 309040

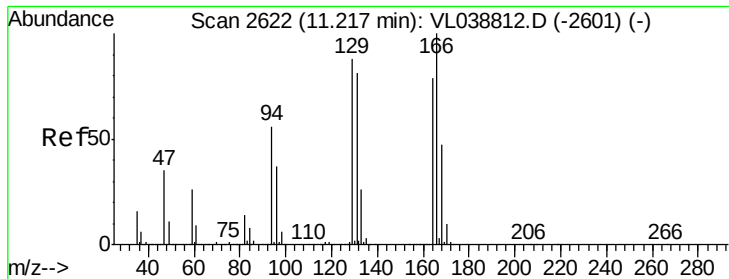
Ion Ratio Lower Upper

43 100

58 53.5 41.4 62.0

98 0.1 0.1 0.1





#52

Tetrachloroethene

Concen: 0.030 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File:

Acq: 6 Apr 2022 13:00

Tot Ion: 164 Resp: 3267

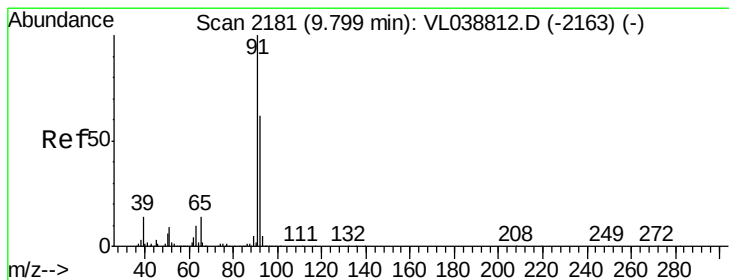
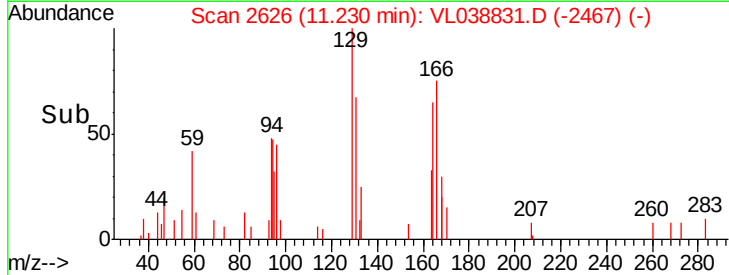
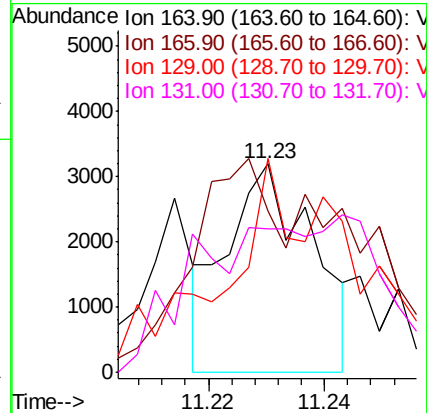
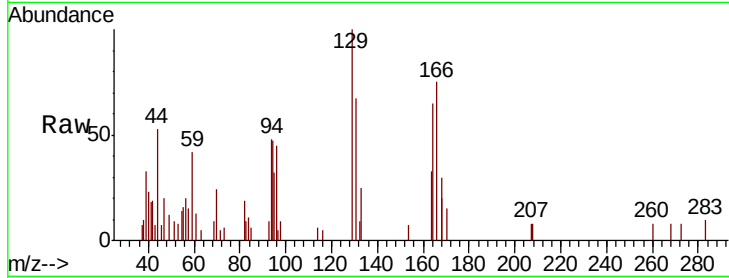
Ion Ratio Lower Upper

164 100

166 47.3 101.0 151.6#

129 114.2 88.7 133.1

131 5.2 81.8 122.6#



#53

Toluene

Concen: 0.077 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL038831.D

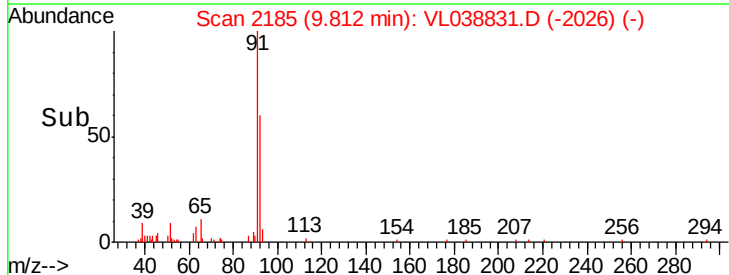
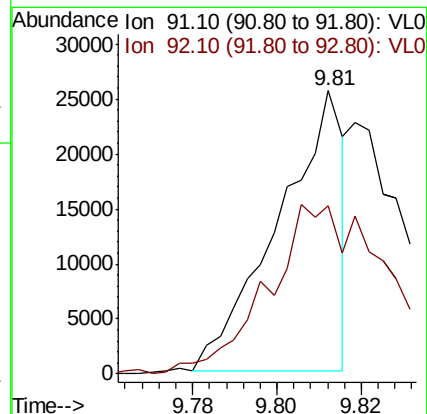
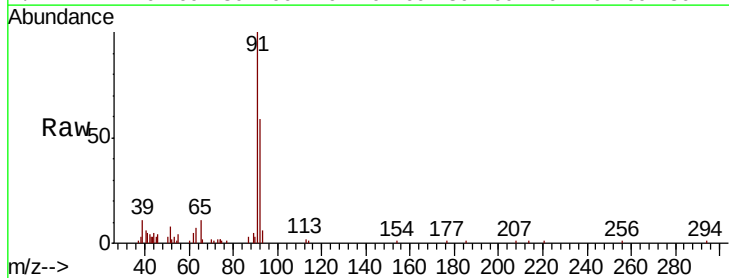
Acq: 6 Apr 2022 13:06

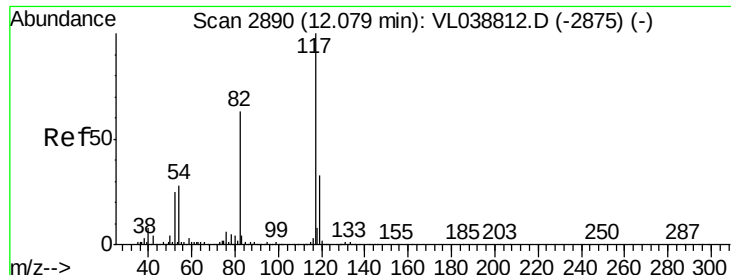
Tgt Ion: 91 Resp: 27475

Ion Ratio Lower Upper

91 100

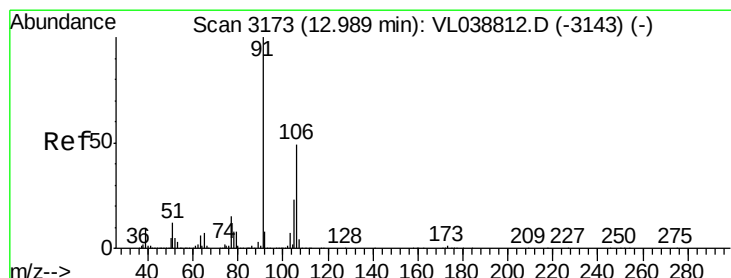
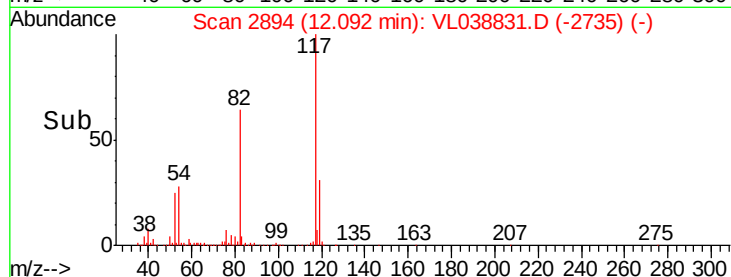
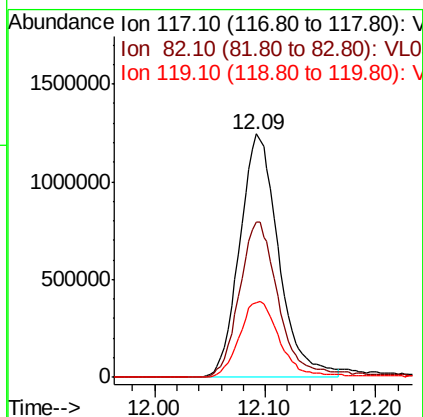
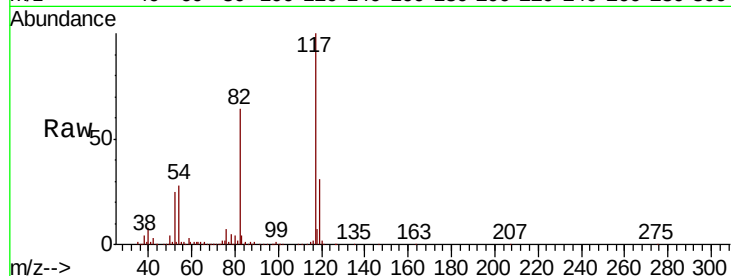
92 122.9 49.2 73.8#





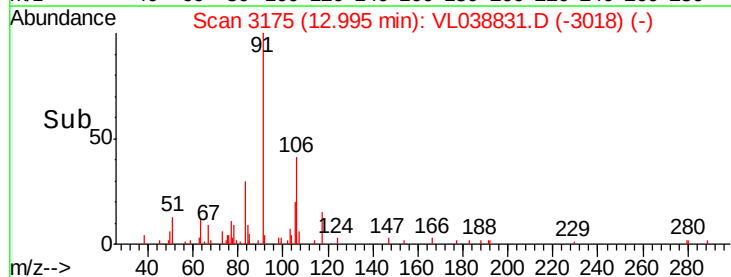
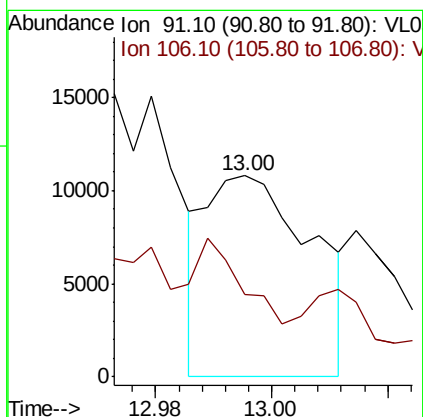
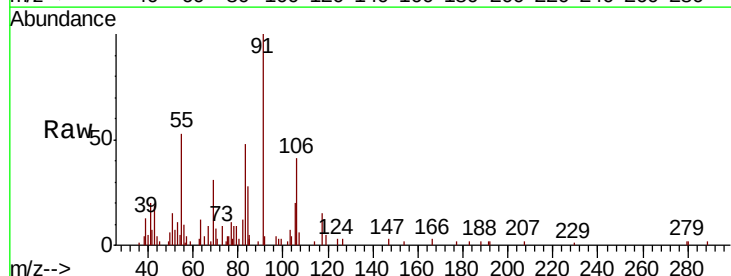
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 6 Apr 2022 13:00

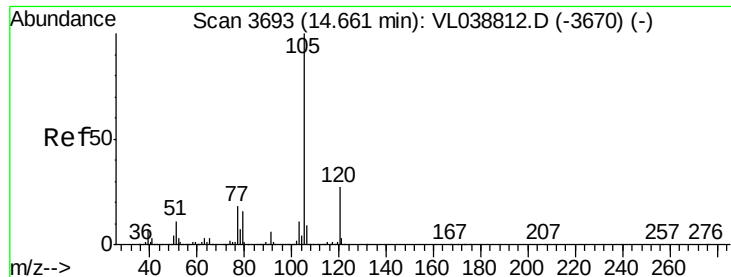
Tot Ion: 117 Resp: 3047585
Ion Ratio Lower Upper
117 100
82 66.4 53.0 79.6
119 33.8 24.9 37.3



#59
m/p-Xylene
Concen: 0.036 ppbv
RT: 13.00 min Scan# 3175
Delta R.T.: 0.01 min
Lab File: VL038831.D
Acq: 6 Apr 2022 13:06

Tgt Ion: 91 Resp: 13665
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





#62

Isopropylbenzene

Concen: 0.149 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File:

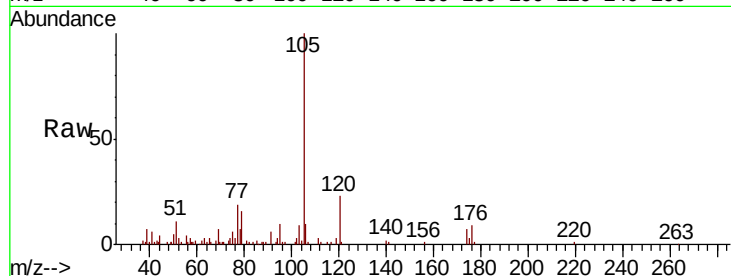
Acq: 6 Apr 2022 13:00

Tot Ion: 105 Resp: 79827

Ion Ratio Lower Upper

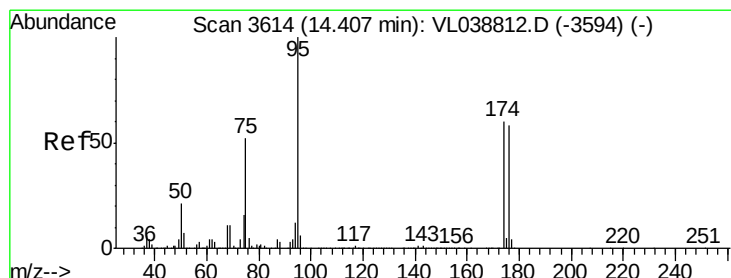
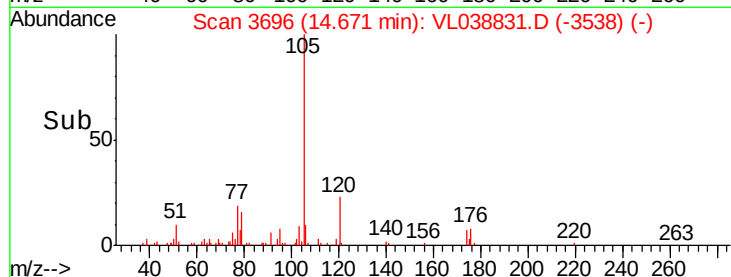
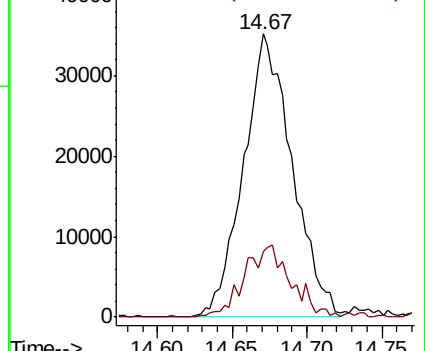
105 100

120 25.1 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.137 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.01 min

Lab File: VL038831.D

Acq: 6 Apr 2022 13:06

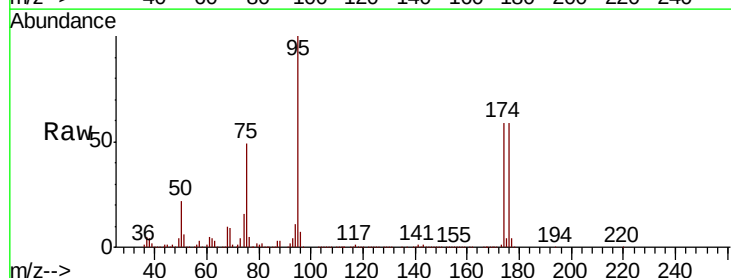
Tgt Ion: 95 Resp: 2343345

Ion Ratio Lower Upper

95 100

174 64.9 52.0 78.0

175 4.8 4.0 6.0



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

