

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038159.D
 Acq On : 7 Dec 2021 20:40
 Operator : SY/AP
 Sample : M4897-01DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 08 02:03:40 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	788033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2274012	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	1982587	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1573881	11.01	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.10%

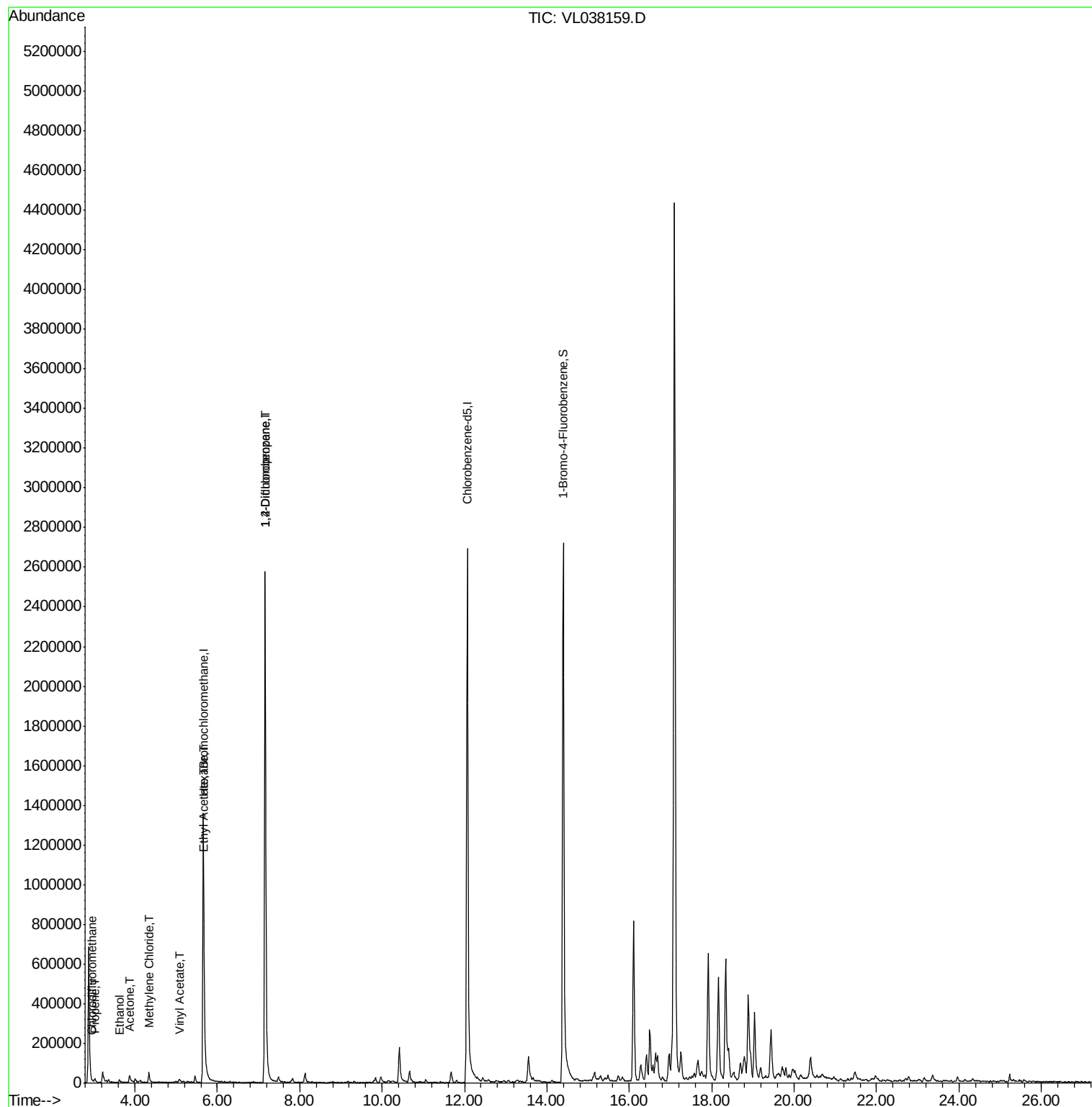
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	9138	0.055	ppbv #	70
9) Propene	3.03	41	7163	0.118	ppbv	85
13) Ethanol	3.62	45	3961	0.673	ppbv #	1
15) Acetone	3.87	43	41965	0.614	ppbv #	79
20) Methylene Chloride	4.34	84	17448	0.456	ppbv	94
23) Vinyl Acetate	5.08	43	18269	0.185	ppbv #	92
25) Ethyl Acetate	5.68	43	29557	0.130	ppbv #	78
26) Hexane	5.67	57	19633	0.179	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	568608	6.535	ppbv #	26

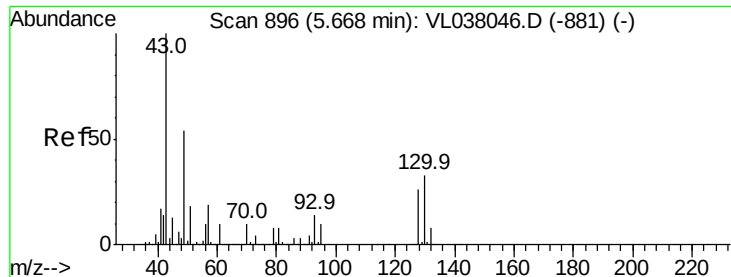
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Dec 2021 20:40

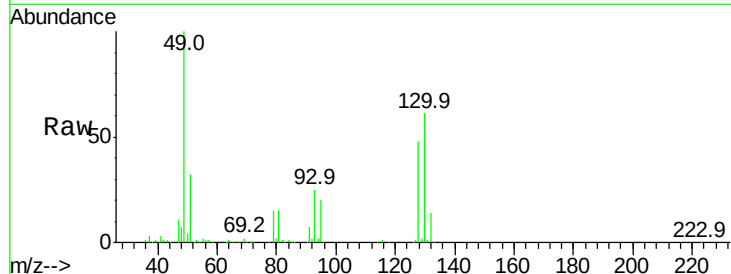
Tot Ion: 49 Resp: 788033

Ion Ratio Lower Upper

49 100

128 50.3 26.5 79.5

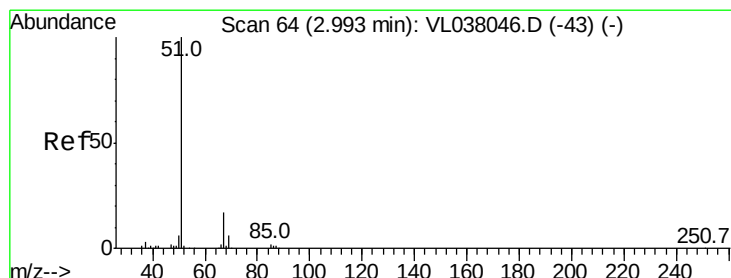
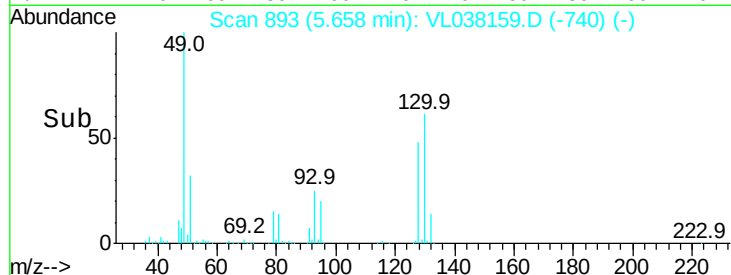
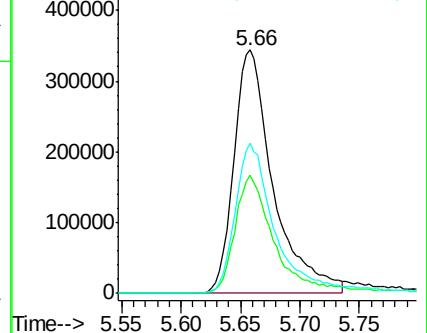
130 65.1 32.5 97.4



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: 0.055 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL038159.D

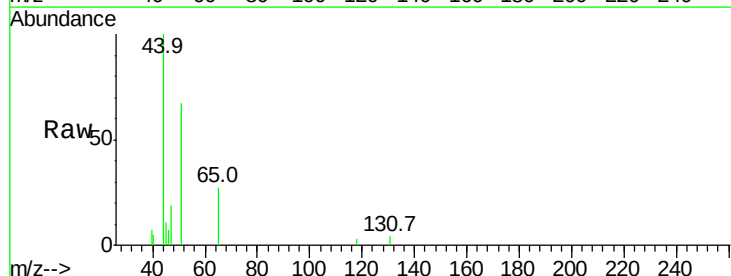
Acq: 7 Dec 2021 20:40

Tgt Ion: 51 Resp: 9138

Ion Ratio Lower Upper

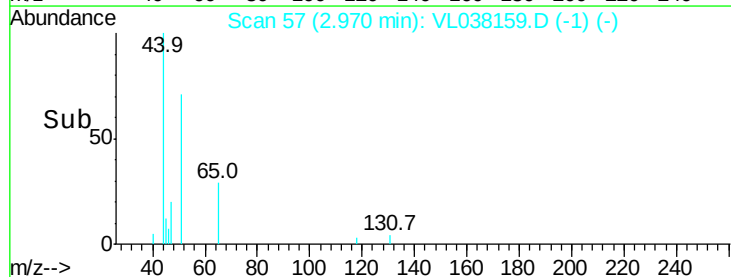
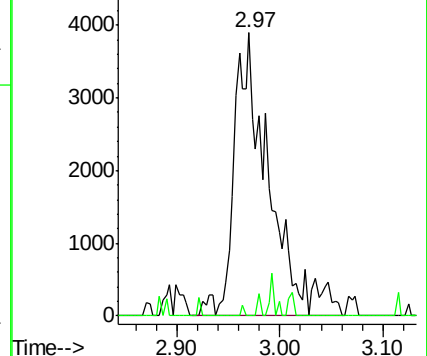
51 100

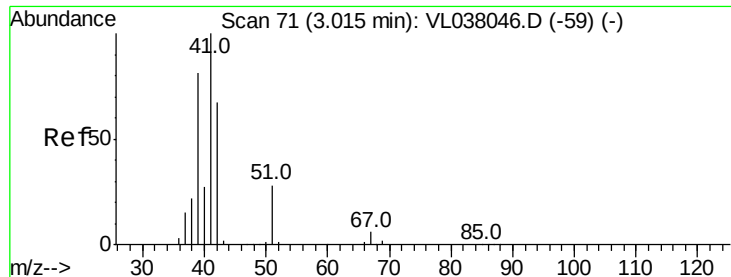
67 4.2 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.118 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

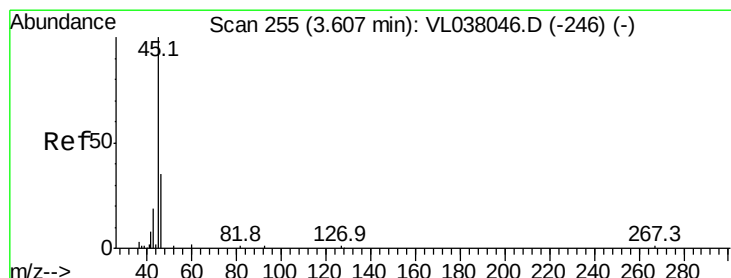
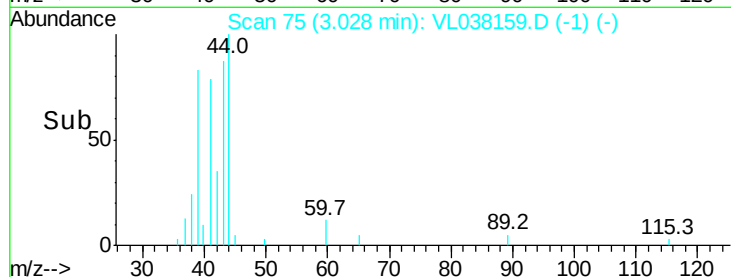
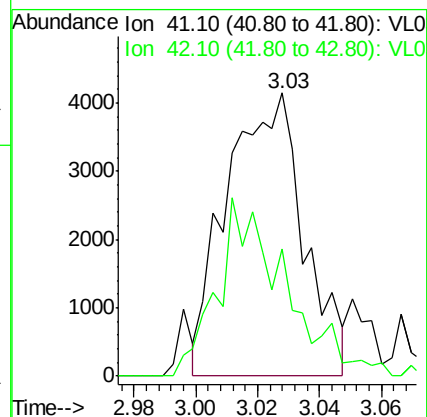
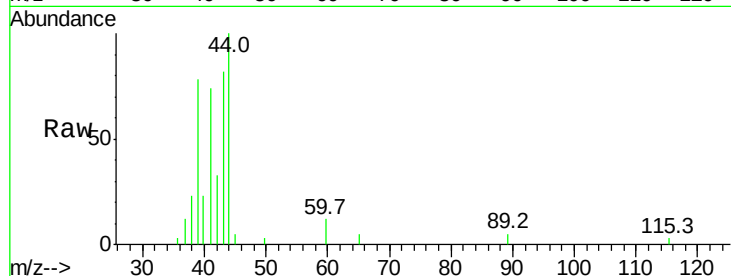
Acq: 7 Dec 2021 20:40

Tot Ion: 41 Resp: 7163

Ion Ratio Lower Upper

41 100

42 55.5 53.8 80.8



#13

Ethanol

Concen: 0.673 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL038159.D

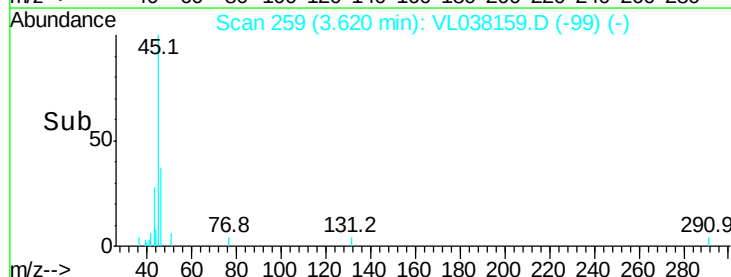
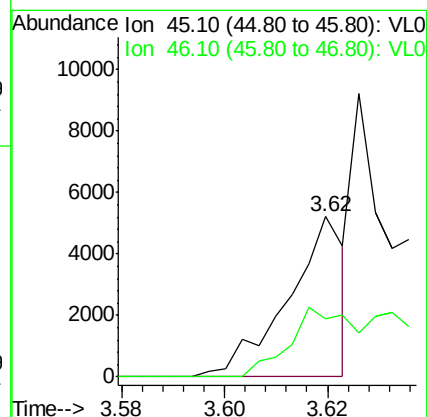
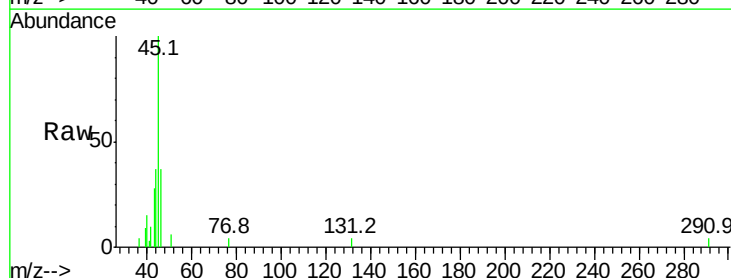
Acq: 7 Dec 2021 20:40

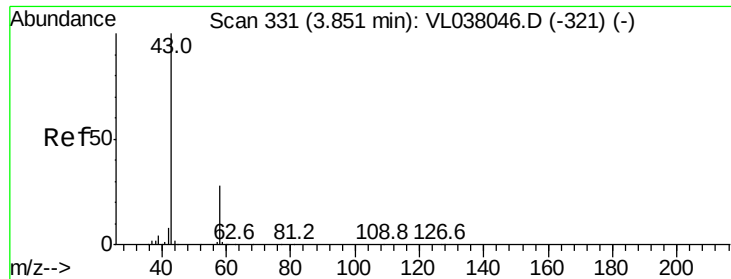
Tgt Ion: 45 Resp: 3961

Ion Ratio Lower Upper

45 100

46 132.1 17.6 70.2#





#15

Acetone

Concen: 0.614 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

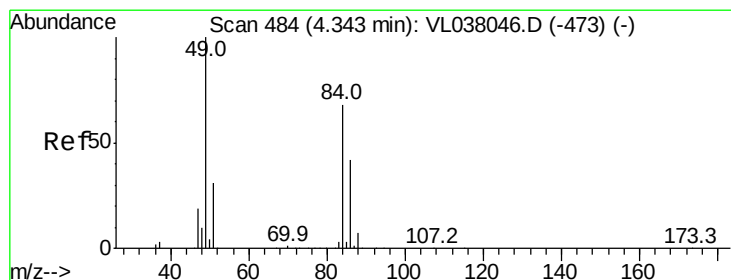
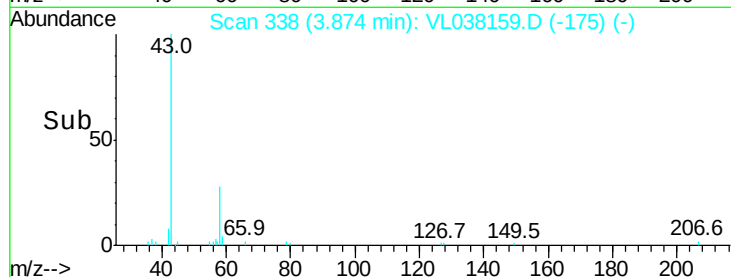
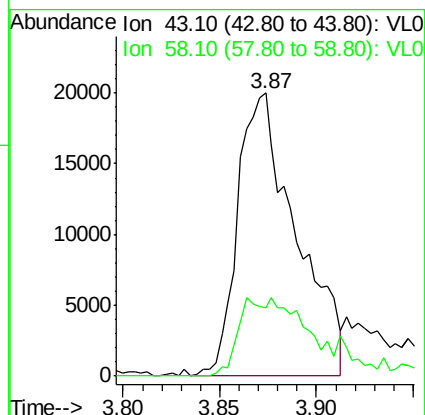
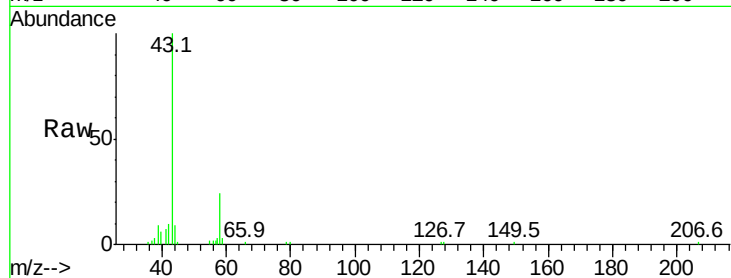
Acq: 7 Dec 2021 20:40

Tot Ion: 43 Resp: 41965

Ion Ratio Lower Upper

43 100

58 39.0 22.4 33.6#



#20

Methylene Chloride

Concen: 0.456 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL038159.D

Acq: 7 Dec 2021 20:40

Tgt Ion: 84 Resp: 17448

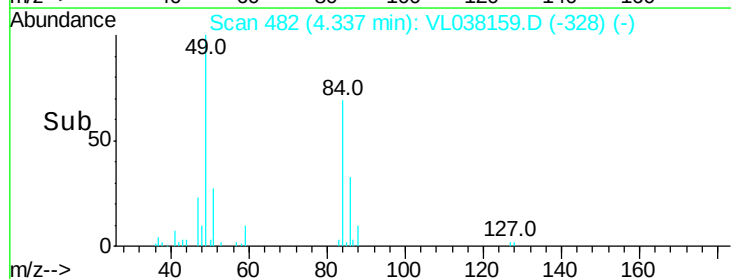
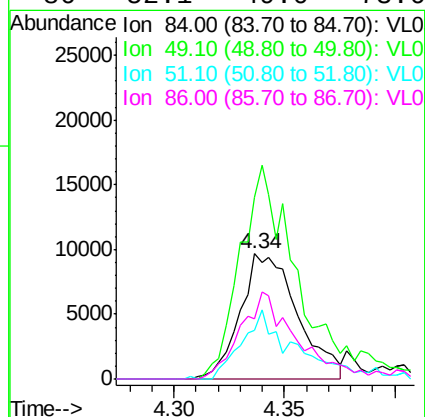
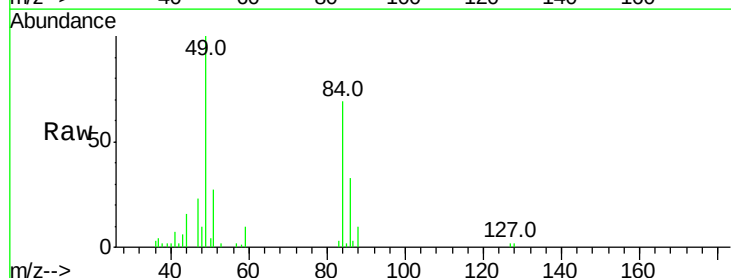
Ion Ratio Lower Upper

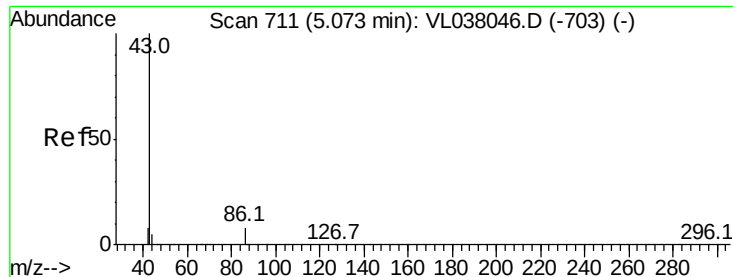
84 100

49 145.2 118.2 177.2

51 37.3 36.8 55.2

86 52.1 49.0 73.6





#23

Vinyl Acetate

Concen: 0.185 ppbv

RT: 5.08 Instrument:

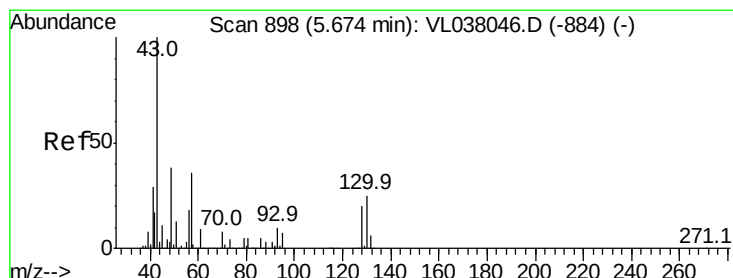
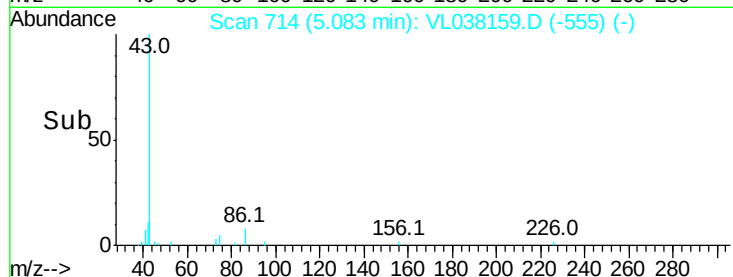
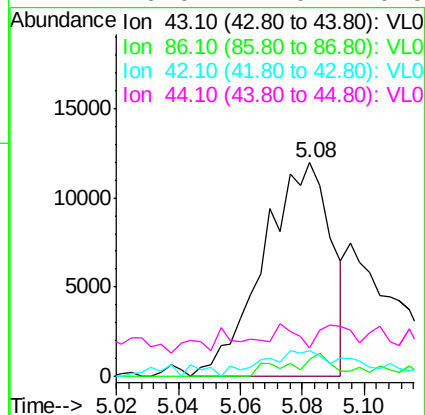
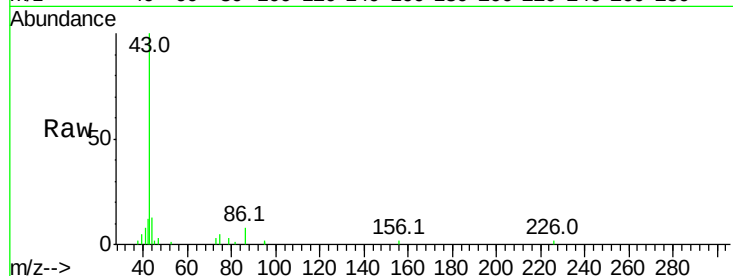
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 7 Dec 2021 20:40

Tot Ion: 43 Resp: 18269

Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.3	7.9#
42	6.6	7.0	10.6#
44	0.0	4.0	6.0#



#25

Ethyl Acetate

Concen: 0.130 ppbv

RT: 5.68 min Scan# 900

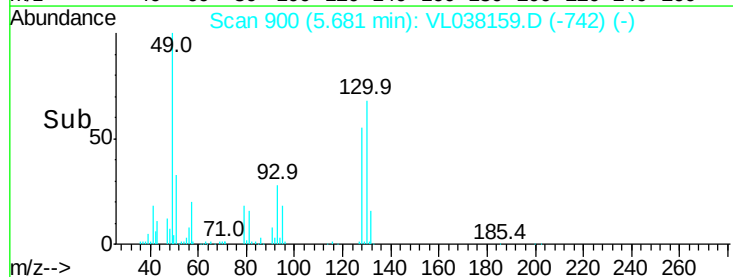
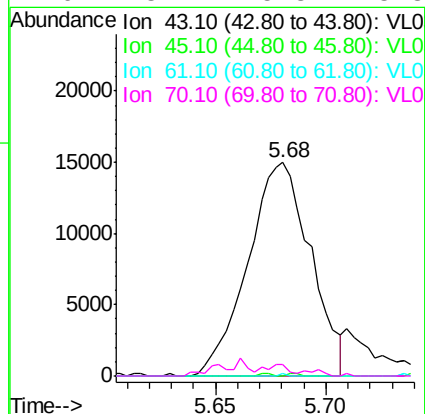
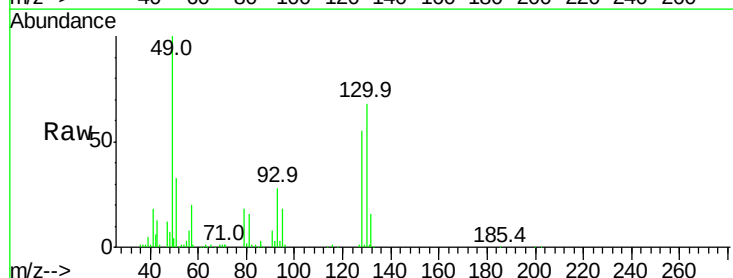
Delta R.T. 0.01 min

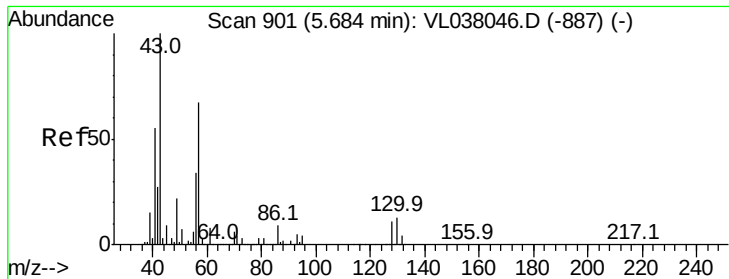
Lab File: VL038159.D

Acq: 7 Dec 2021 20:40

Tgt Ion: 43 Resp: 29557

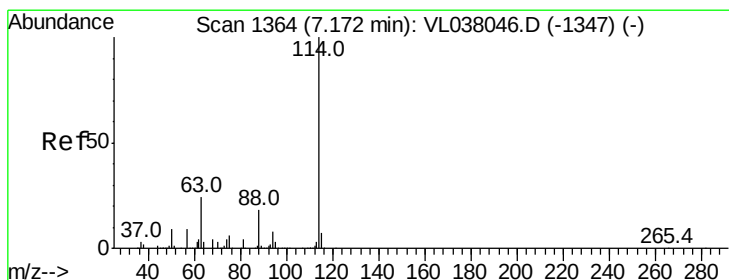
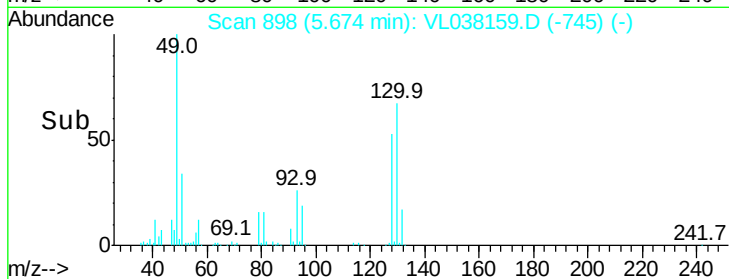
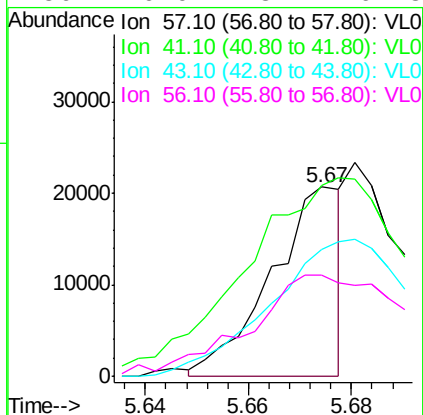
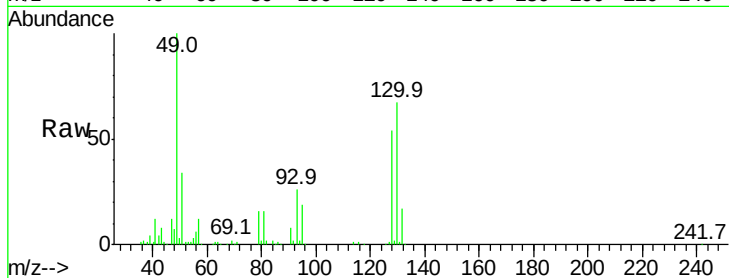
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.9	11.9#
61	0.0	7.8	11.6#
70	3.1	5.8	8.8#





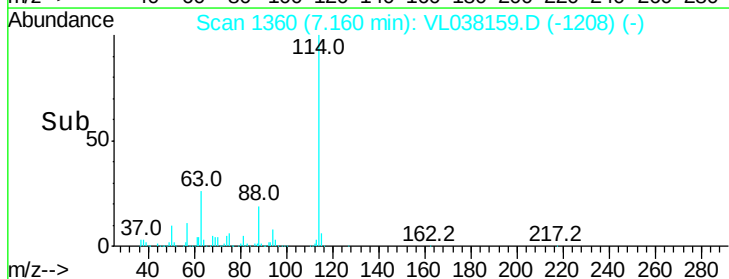
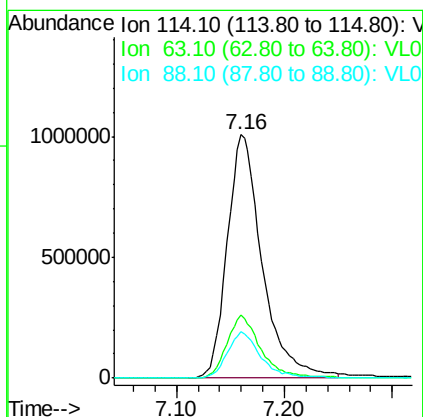
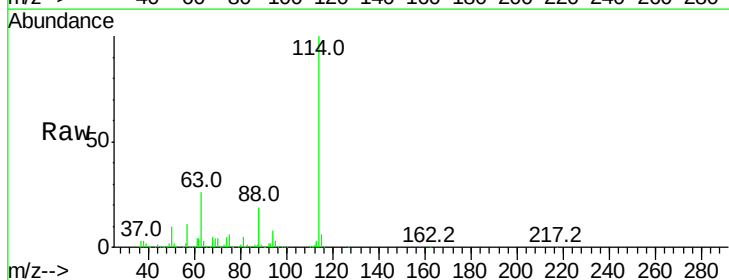
#26
Hexane
Concen: 0.179 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Dec 2021 20:40

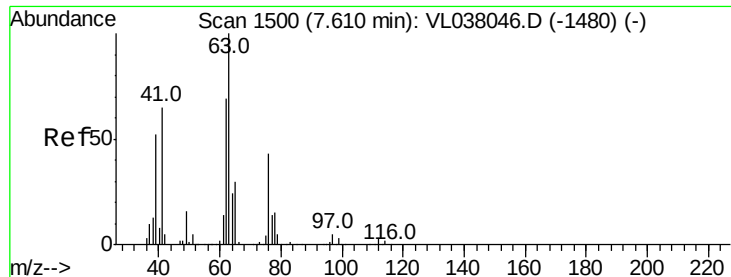
Tot Ion: 57 Resp: 19633
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 0.0 174.6 261.8#
56 140.0 43.2 64.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL038159.D
Acq: 7 Dec 2021 20:40

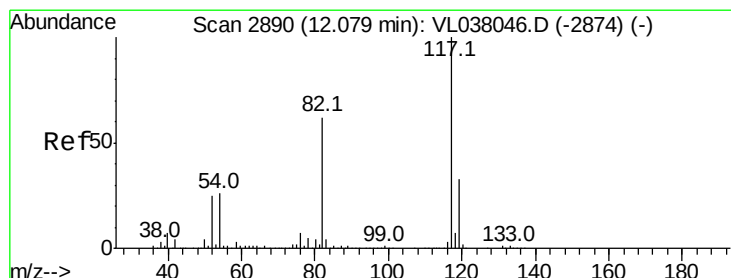
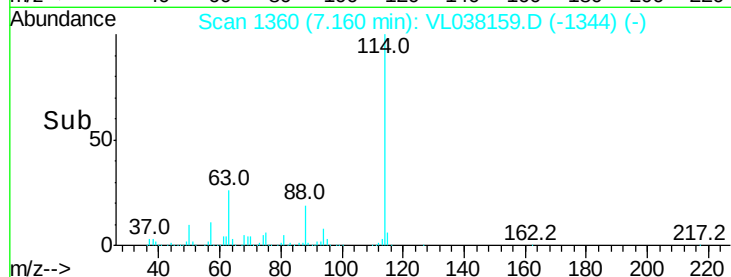
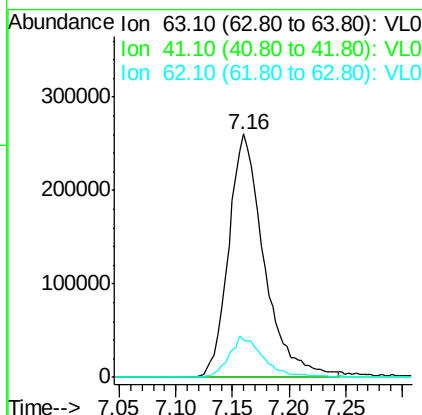
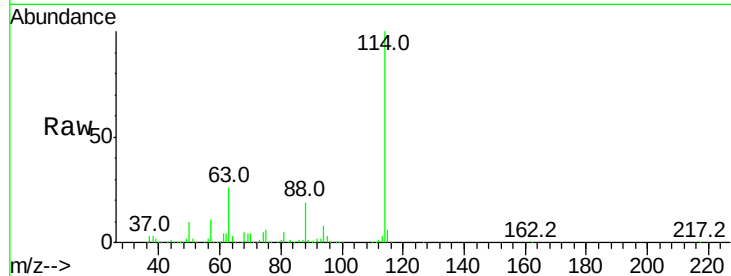
Tgt Ion: 114 Resp: 2274012
Ion Ratio Lower Upper
114 100
63 25.7 19.7 29.5
88 18.7 14.4 21.6





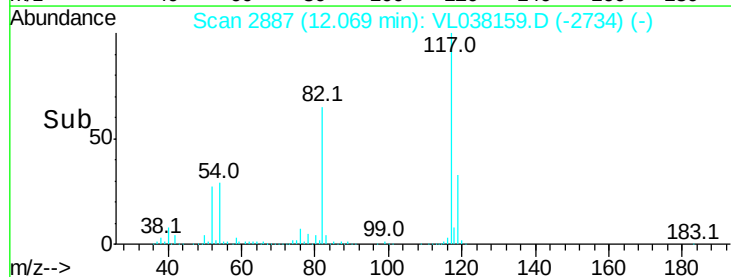
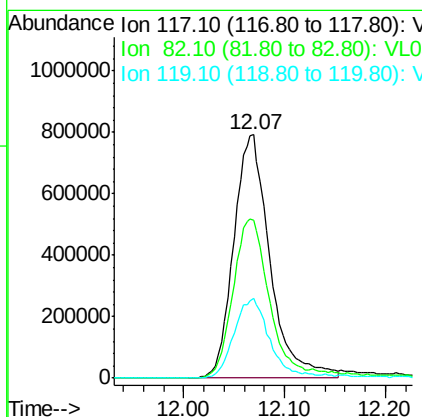
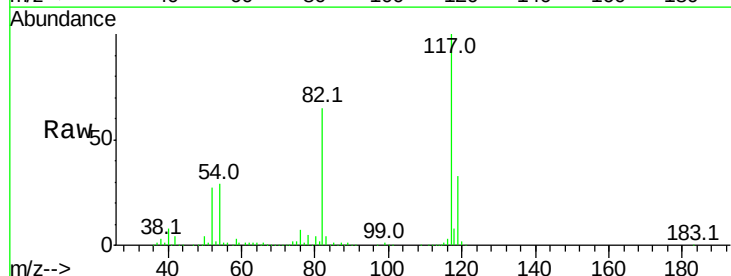
#39
 1,2-Dichloropropane
 Concen: 6.535 ppbv
 RT: 7.16 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Dec 2021 20:40

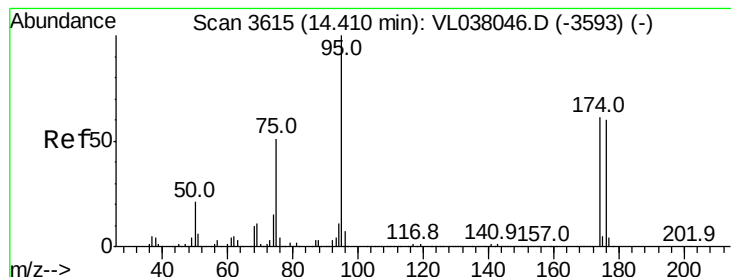
Tot Ion	63	Resp	568608
Ion	Ratio	Lower	Upper
63	100		
41	0.1	52.3	78.5#
62	15.4	55.1	82.7#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2887
 Delta R.T. -0.01 min
 Lab File: VL038159.D
 Acq: 7 Dec 2021 20:40

Tgt Ion	117	Resp	1982587
Ion	Ratio	Lower	Upper
117	100		
82	70.1	52.8	79.2
119	33.3	26.8	40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 11.006 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Dec 2021 20:40

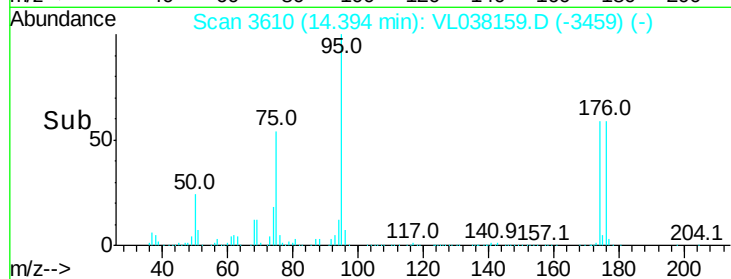
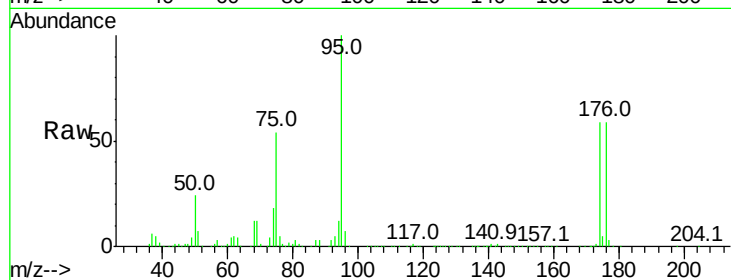
Tot Ion: 95 Resp: 1573881

Ion Ratio Lower Upper

95 100

174 63.0 53.1 79.7

175 4.7 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

