

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022422\
 Data File : VL038435.D
 Acq On : 24 Feb 2022 15:28
 Operator : SY/AP
 Sample : N1605-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Feb 25 00:43:38 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	869700	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.14	114	1997022	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.04	117	1706968	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	1312598	9.29	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

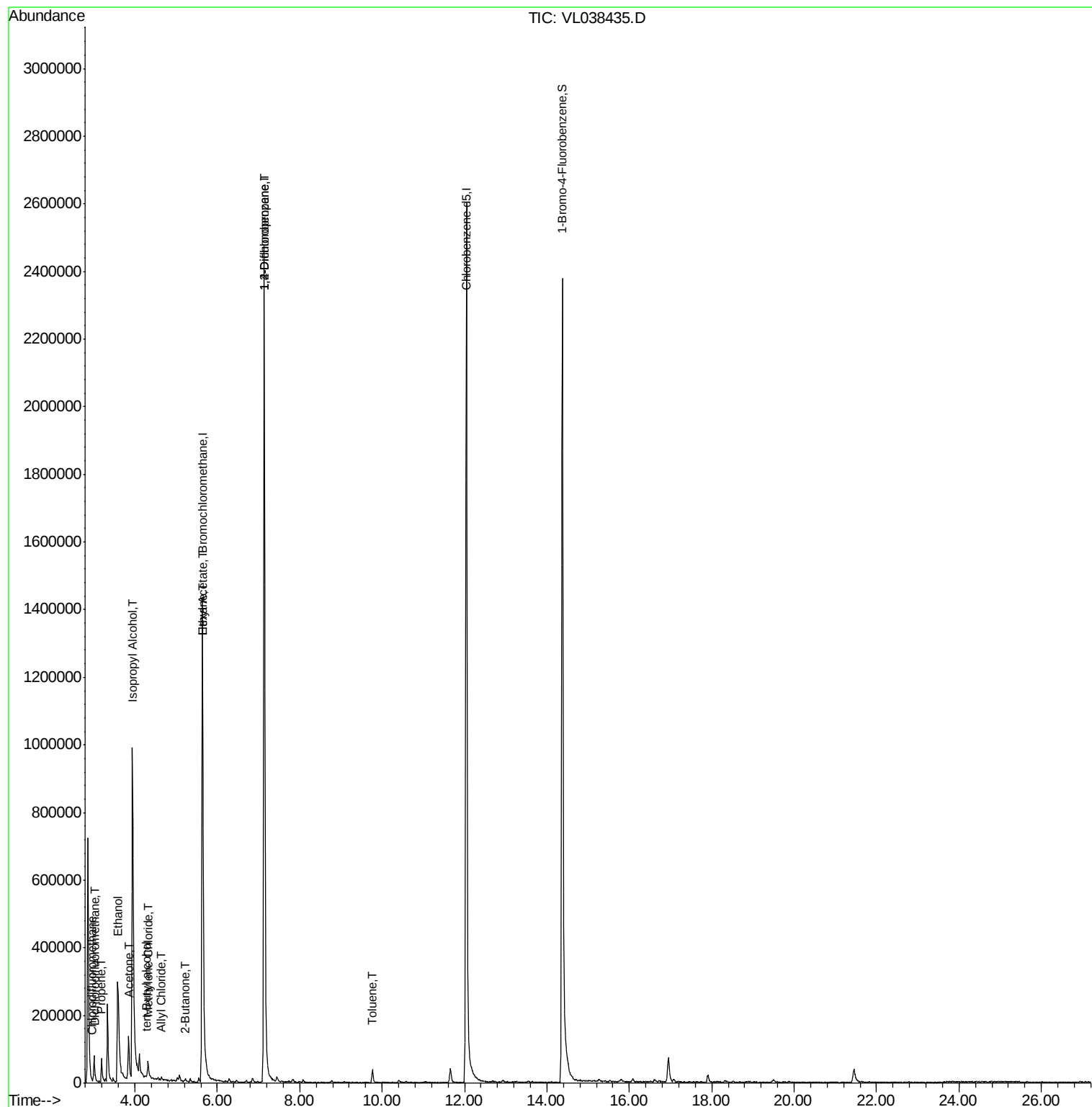
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	6265	0.05	ppbv	89
3) Chlorodifluoromethane	2.97	51	6127	0.04	ppbv #	64
9) Propene	3.19	41	23046	0.45	ppbv	86
13) Ethanol	3.58	45	526808	104.10	ppbv	89
15) Acetone	3.83	43	54021	0.73	ppbv #	76
17) tert-Butyl alcohol	4.27	59	2840	0.04	ppbv #	72
19) Isopropyl Alcohol	3.94	45	1453517	33.94	ppbv #	99
20) Methylene Chloride	4.32	84	17078	0.47	ppbv	97
21) Allyl Chloride	4.65	41	1958	0.03	ppbv #	19
25) Ethyl Acetate	5.65	43	39275	0.20	ppbv #	82
26) Hexane	5.65	57	49572	0.55	ppbv #	45
34) 2-Butanone	5.22	43	8579	0.14	ppbv	94
39) 1,2-Dichloropropane	7.14	63	546733	7.81	ppbv #	25
53) Toluene	9.76	91	13454	0.07	ppbv #	20

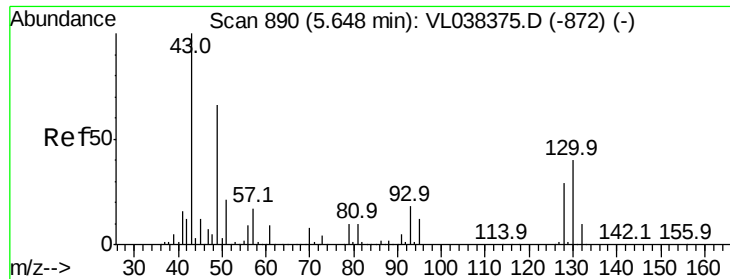
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Feb 2022 15:28

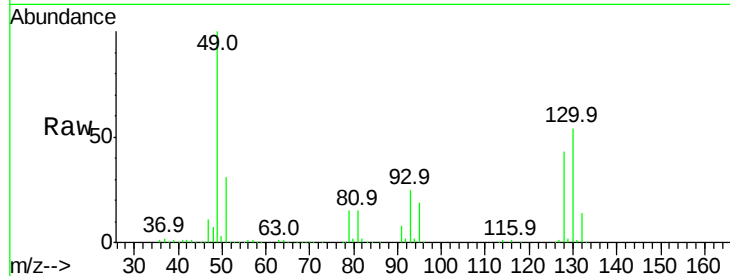
Tgt Ion: 49 Resp: 869700

Ion Ratio Lower Upper

49 100

128 44.8 24.3 72.9

130 58.1 30.1 90.5



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

5.64

400000

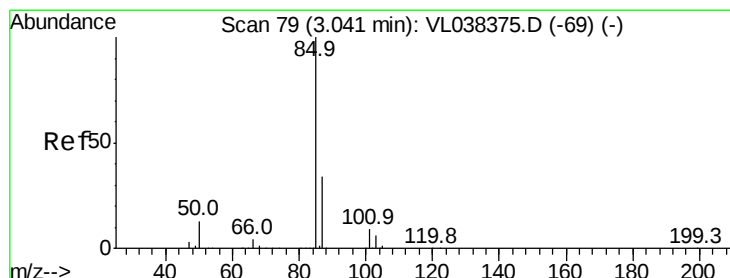
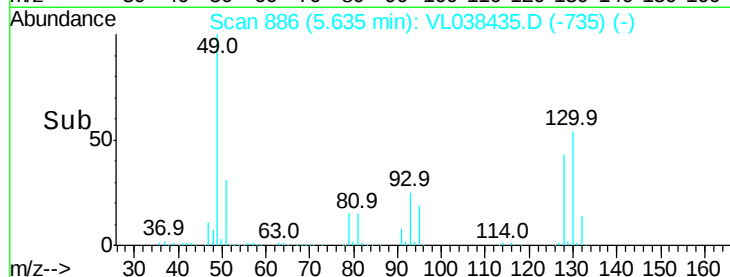
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL038435.D

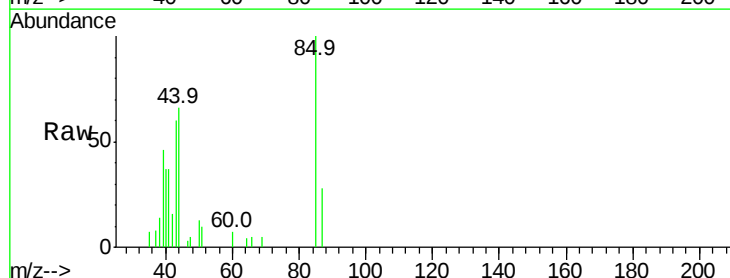
Acq: 24 Feb 2022 15:28

Tgt Ion: 85 Resp: 6265

Ion Ratio Lower Upper

85 100

87 28.2 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

6000

5000

4000

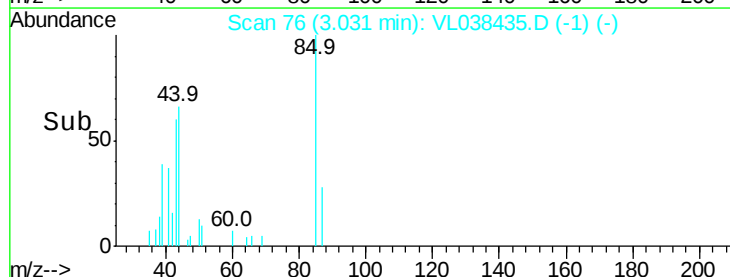
3000

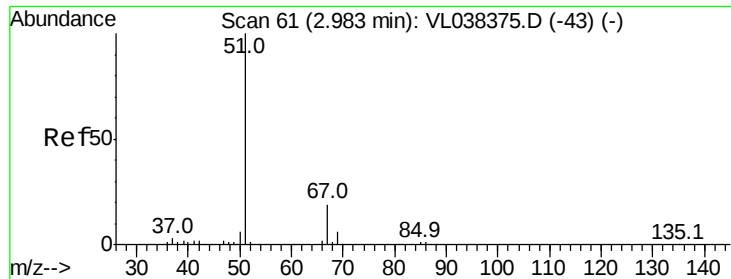
2000

1000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

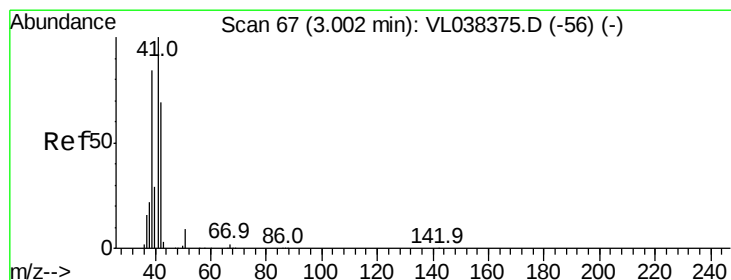
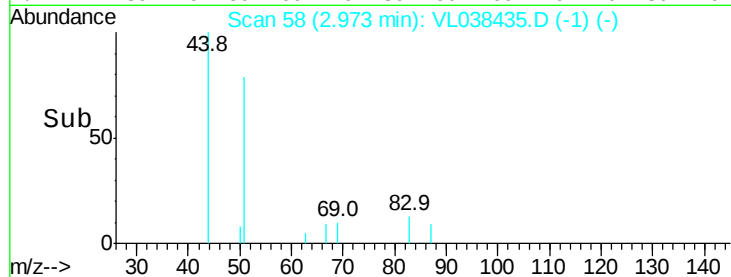
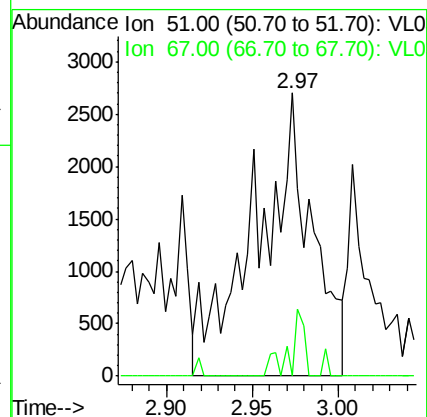
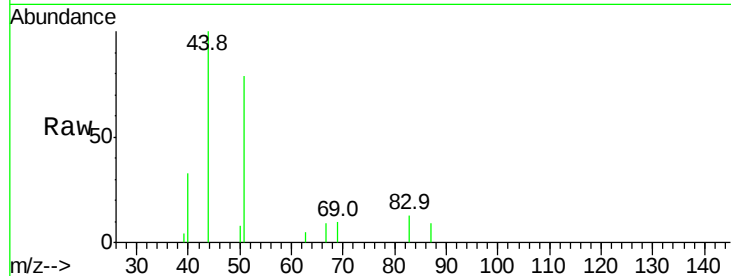
Acq: 24 Feb 2022 15:28

Tgt Ion: 51 Resp: 6127

Ion Ratio Lower Upper

51 100

67 2.3 14.7 22.1#



#9

Propene

Concen: 0.45 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.18 min

Lab File: VL038435.D

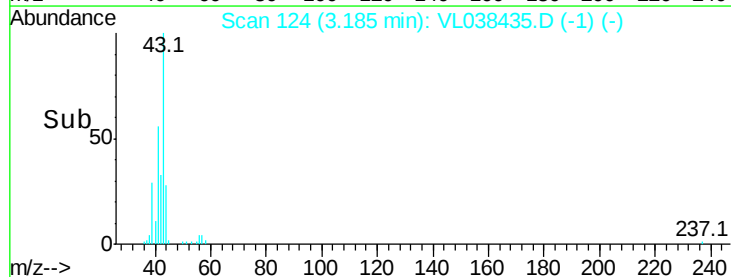
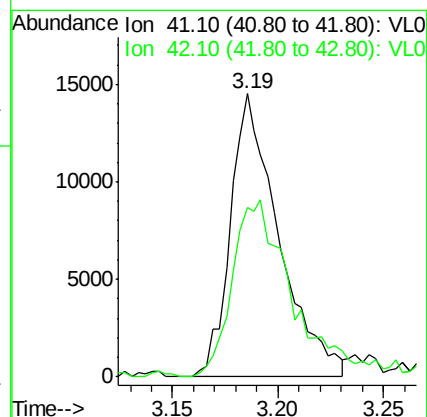
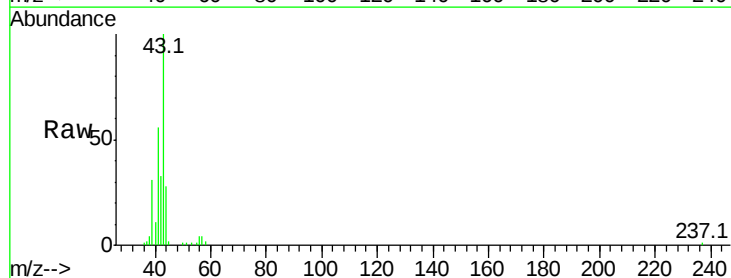
Acq: 24 Feb 2022 15:28

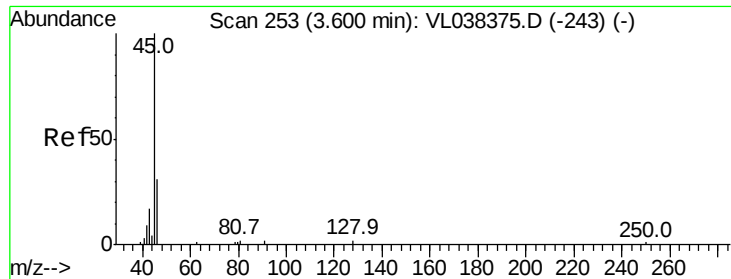
Tgt Ion: 41 Resp: 23046

Ion Ratio Lower Upper

41 100

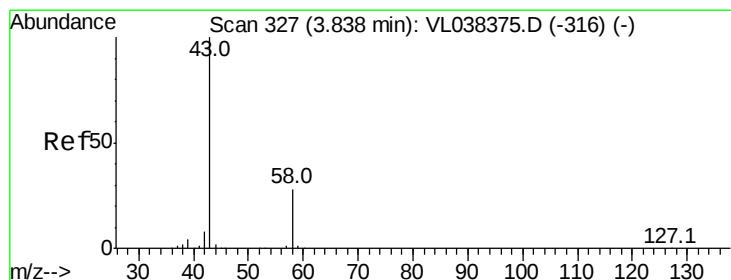
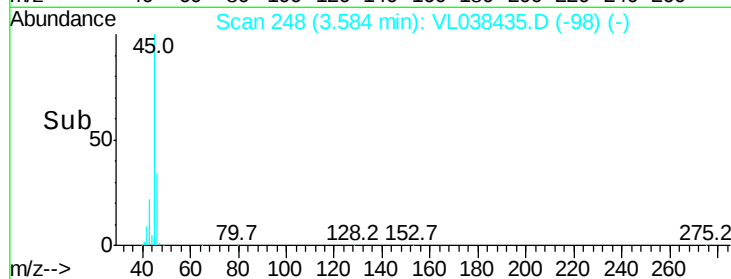
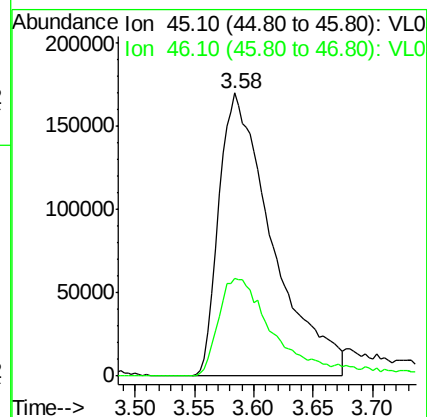
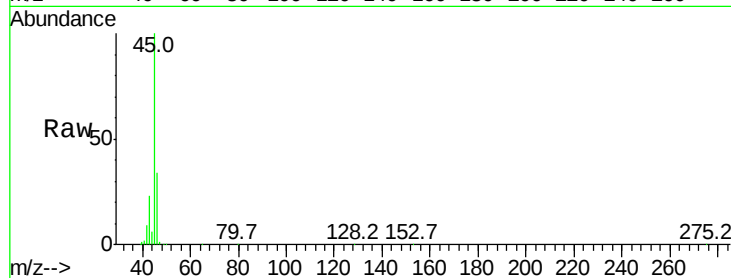
42 79.8 54.6 82.0





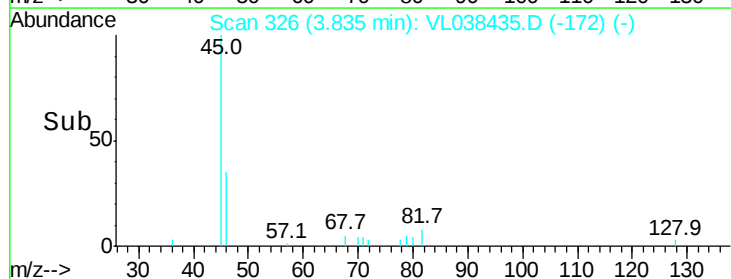
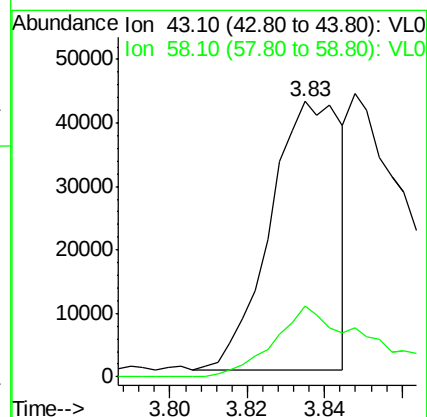
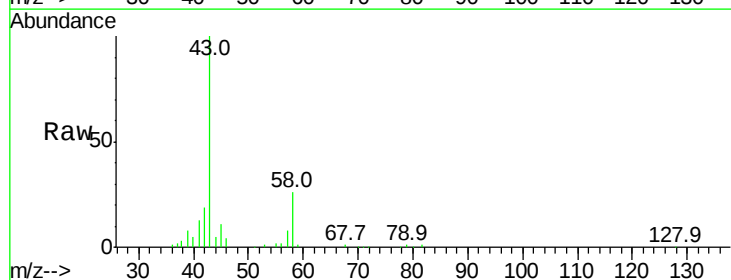
#13
 Ethanol
 Concen: 104.10 ppbv
 RT: 3.58
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Feb 2022 15:28

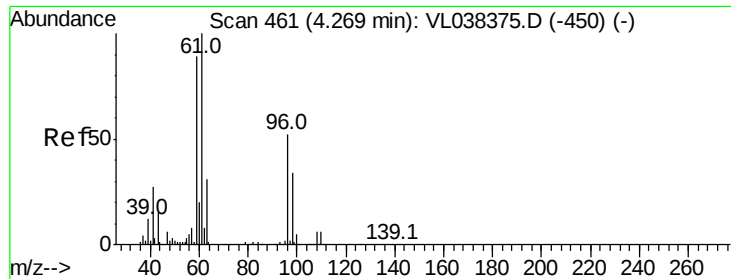
Tgt Ion: 45 Resp: 526808
 Ion Ratio Lower Upper
 45 100
 46 38.4 18.2 72.8



#15
 Acetone
 Concen: 0.73 ppbv
 RT: 3.83 min Scan# 326
 Delta R.T. -0.00 min
 Lab File: VL038435.D
 Acq: 24 Feb 2022 15:28

Tgt Ion: 43 Resp: 54021
 Ion Ratio Lower Upper
 43 100
 58 39.8 21.7 32.5#





#17

tert-Butyl alcohol

Concen: 0.04 ppbv

RT: 4.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

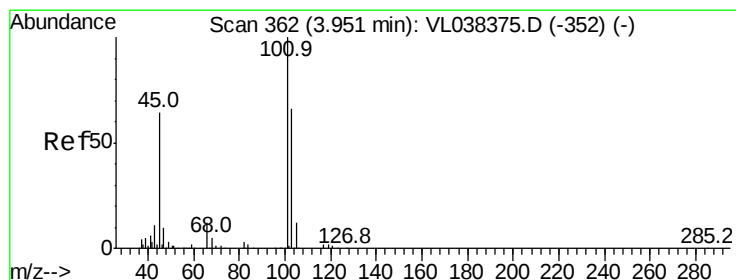
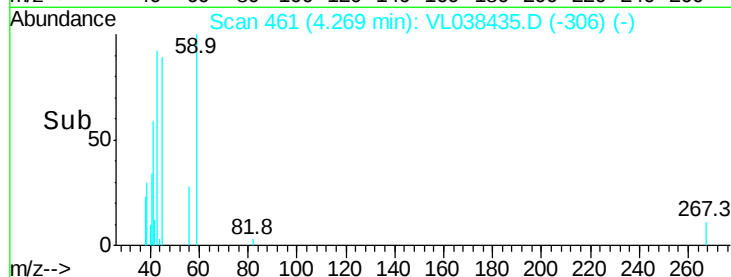
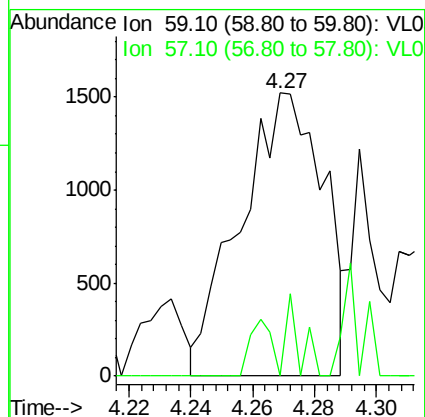
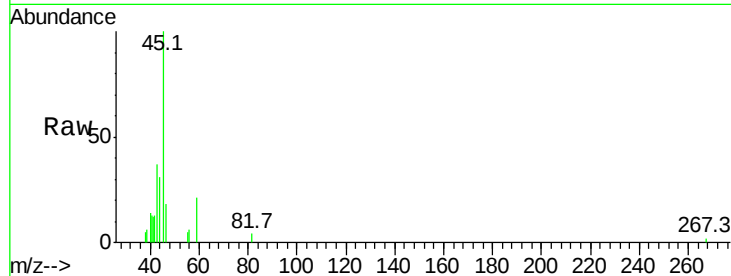
Acq: 24 Feb 2022 15:28

Tgt Ion: 59 Resp: 2840

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 33.94 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL038435.D

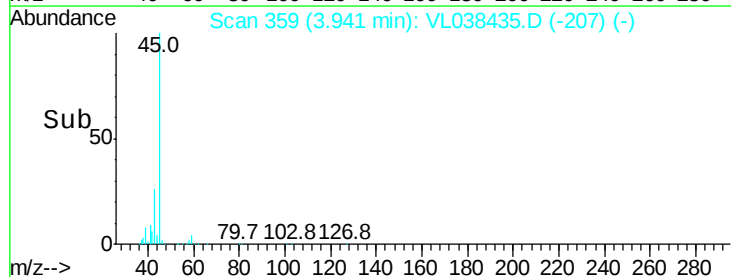
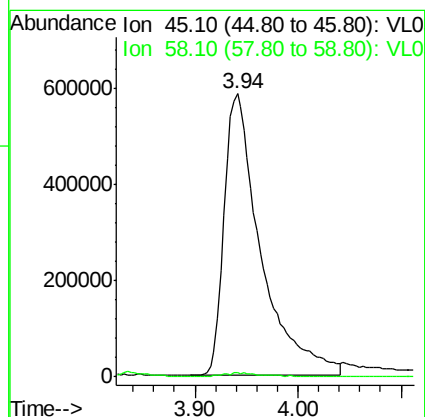
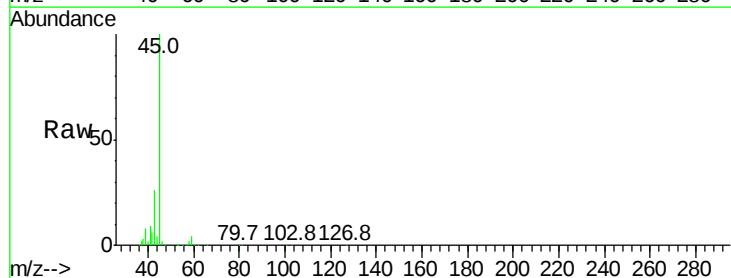
Acq: 24 Feb 2022 15:28

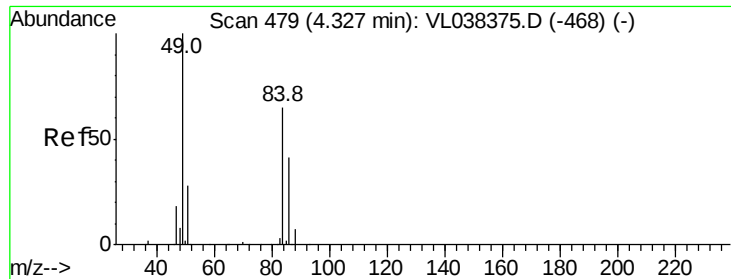
Tgt Ion: 45 Resp: 1453517

Ion Ratio Lower Upper

45 100

58 1.8 1.8 2.8#

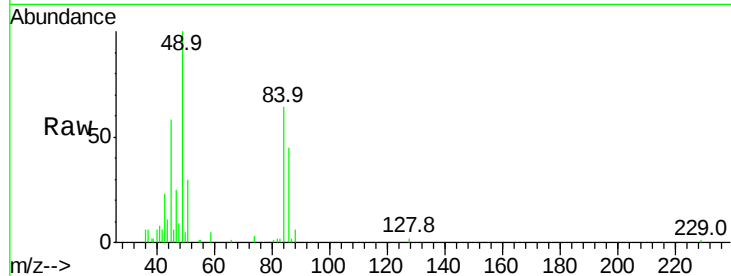




#20
Methylene Chloride
Concen: 0.47 ppbv
RT: 4.32
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 24 Feb 2022 15:28

Tgt Ion: 84 Resp: 17078

Ion	Ratio	Lower	Upper
84	100		
49	152.5	122.4	183.6
51	47.5	33.3	49.9
86	67.3	50.7	76.1

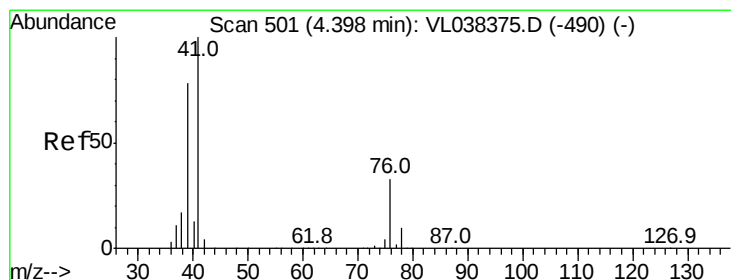
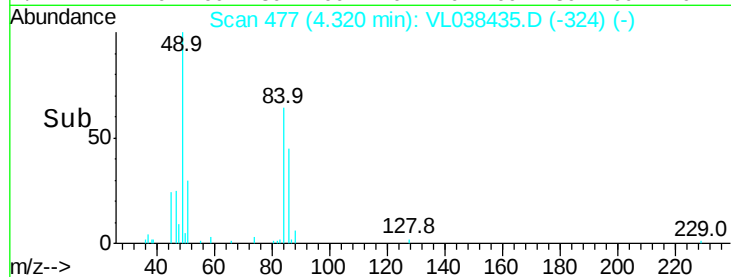
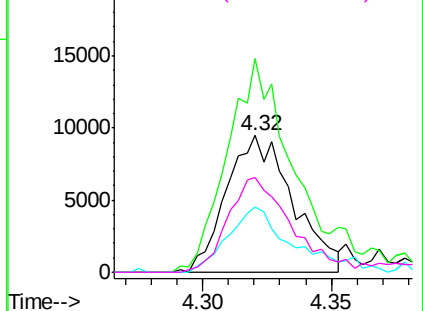


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

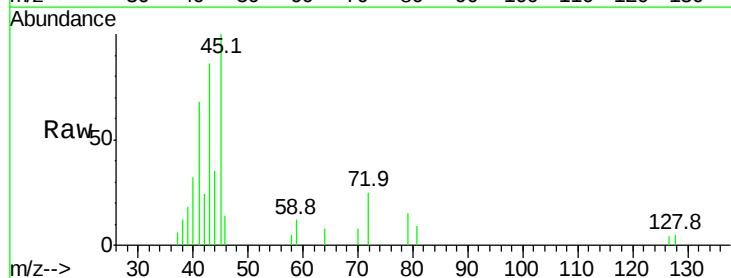
Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.03 ppbv
RT: 4.65 min Scan# 578
Delta R.T. 0.25 min
Lab File: VL038435.D
Acq: 24 Feb 2022 15:28

Tgt Ion: 41 Resp: 1958

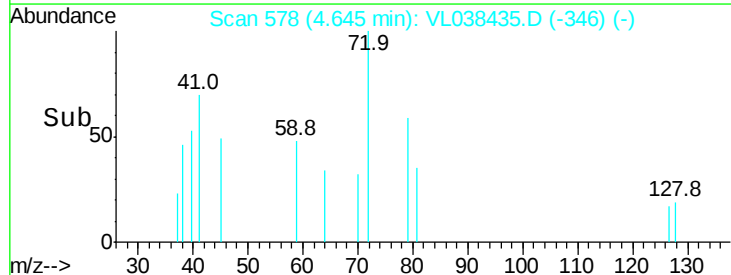
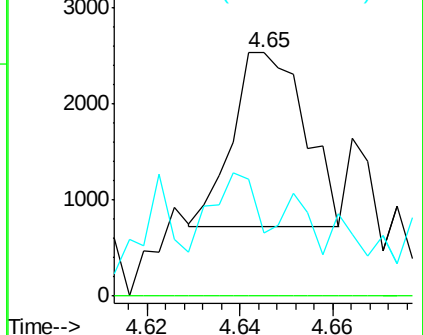
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.0#
39	0.0	63.0	94.6#

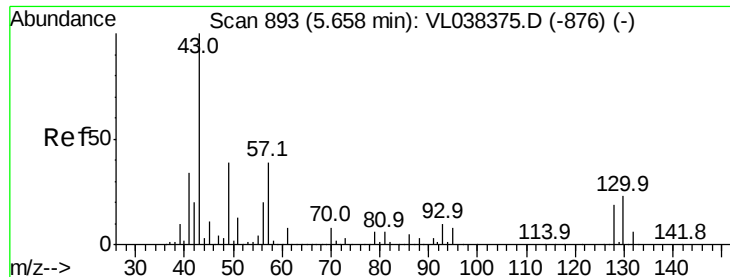


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

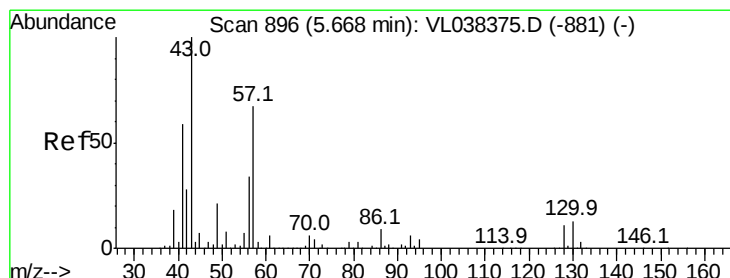
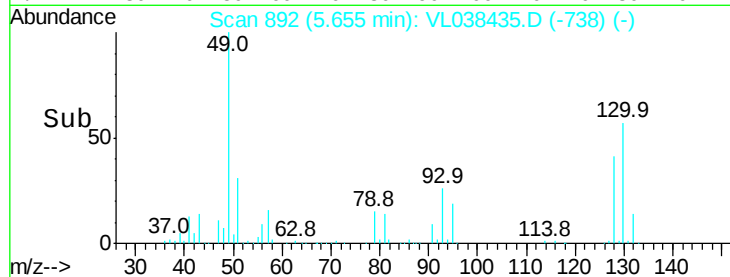
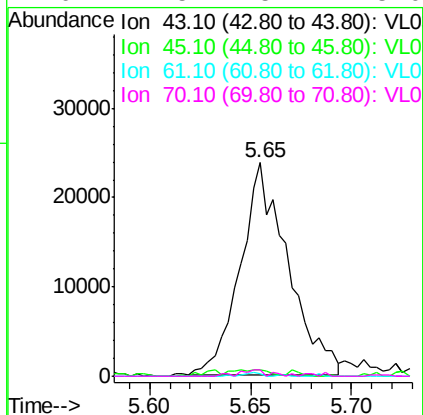
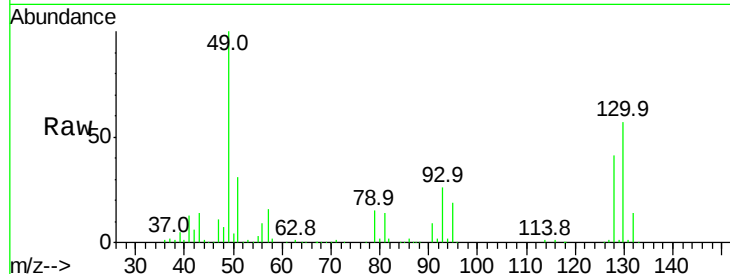
Ion 39.10 (38.80 to 39.80): VL0





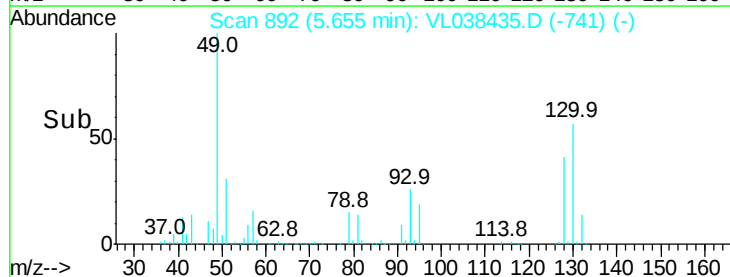
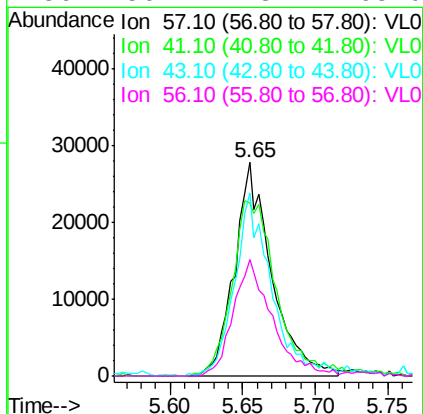
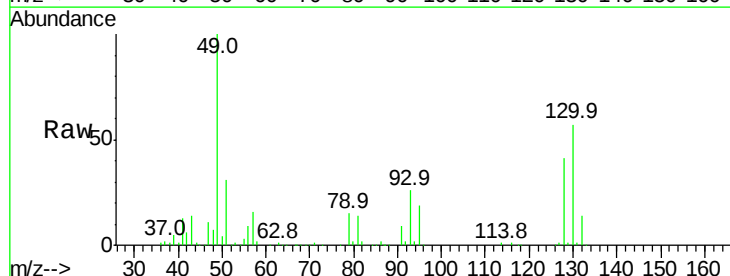
#25
Ethyl Acetate
Concen: 0.20 ppbv
RT: 5.65 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Feb 2022 15:28

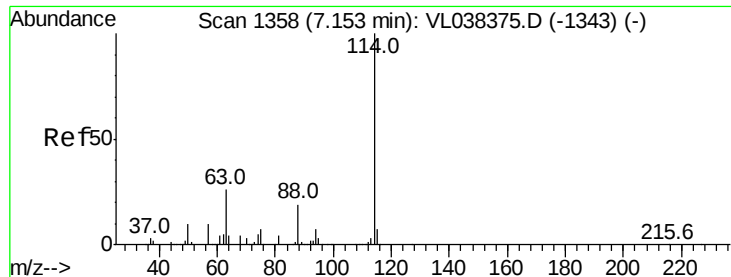
Tgt Ion:	43	Resp:	39275
Ion	Ratio	Lower	Upper
43	100		
45	4.4	7.8	11.6#
61	0.9	7.5	11.3#
70	1.5	5.4	8.0#



#26
Hexane
Concen: 0.55 ppbv
RT: 5.65 min Scan# 892
Delta R.T.: -0.01 min
Lab File: VL038435.D
Acq: 24 Feb 2022 15:28

Tgt Ion:	57	Resp:	49572
Ion	Ratio	Lower	Upper
57	100		
41	101.1	73.1	109.7
43	86.9	181.0	271.4#
56	56.7	43.4	65.0

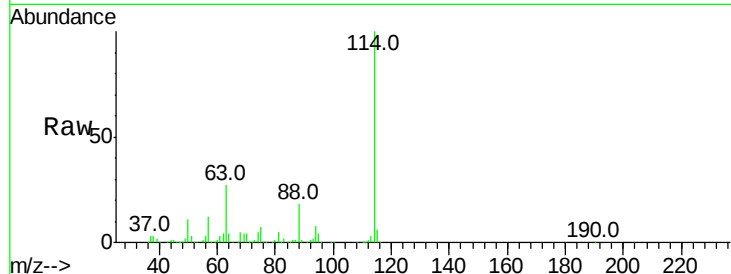




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.14
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Feb 2022 15:28

Tgt Ion: 114 Resp: 1997022

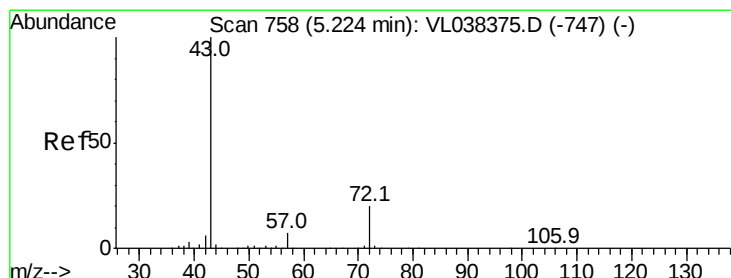
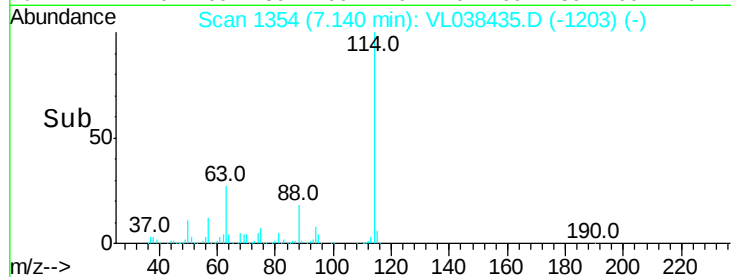
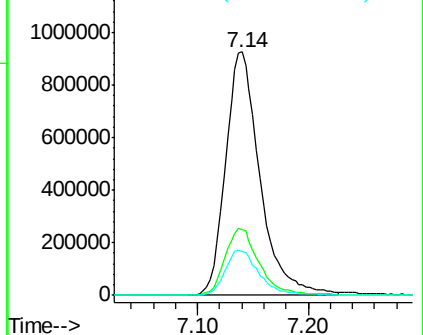
Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.2	33.2
88	18.8	15.2	22.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

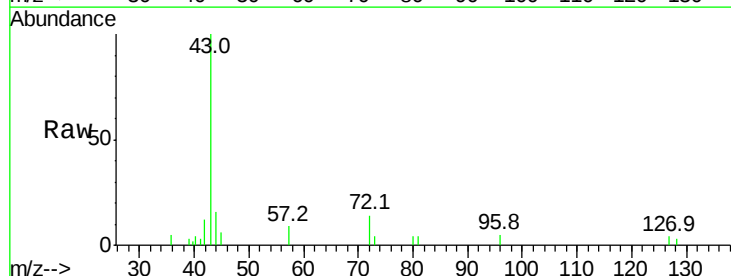
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 0.14 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.00 min
 Lab File: VL038435.D
 Acq: 24 Feb 2022 15:28

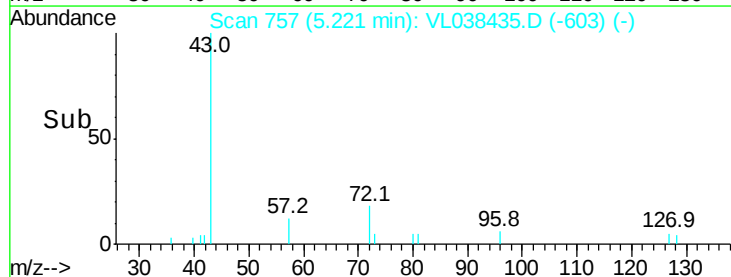
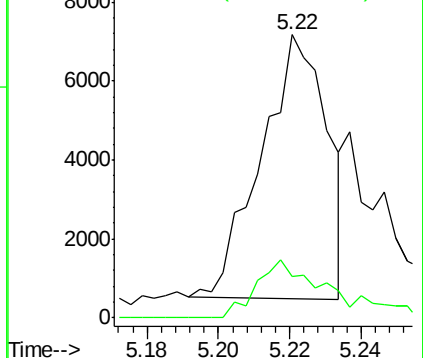
Tgt Ion: 43 Resp: 8579

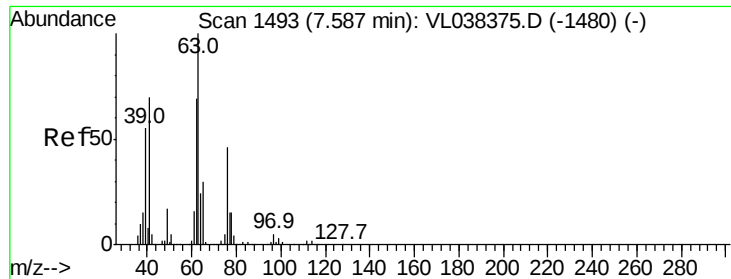
Ion	Ratio	Lower	Upper
43	100		
72	24.5	17.4	26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.81 ppbv

RT: 7.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Feb 2022 15:28

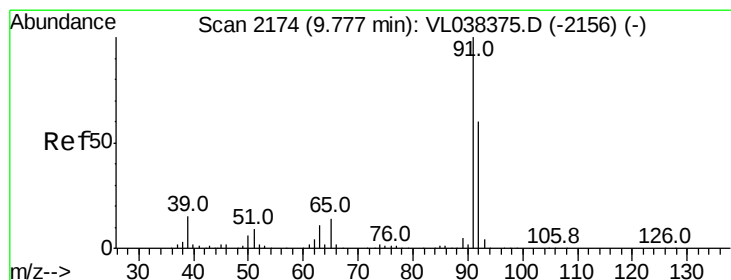
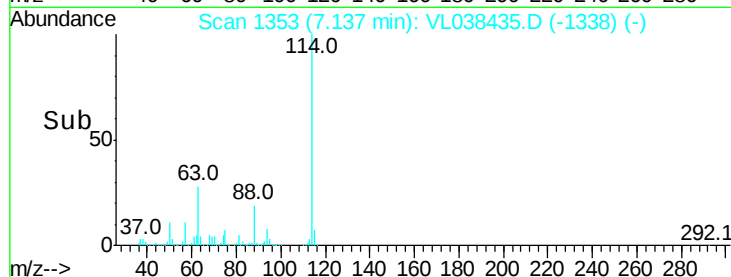
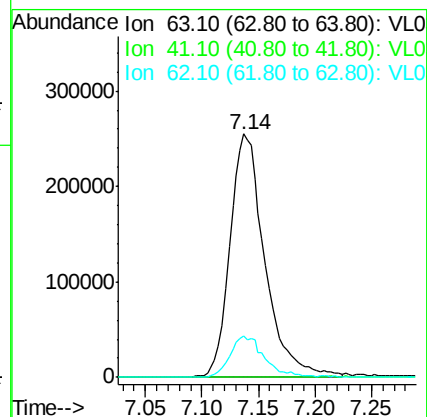
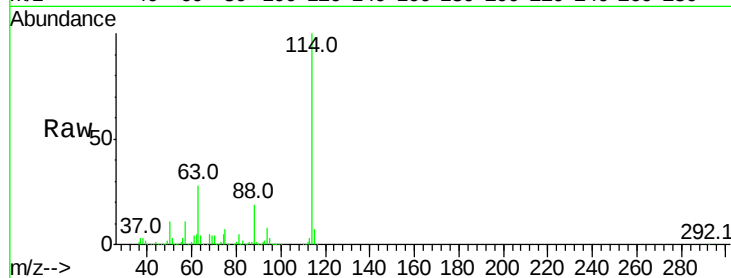
Tgt Ion: 63 Resp: 546733

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

62 17.0 55.5 83.3#



#53

Toluene

Concen: 0.07 ppbv

RT: 9.76 min Scan# 2169

Delta R.T. -0.02 min

Lab File: VL038435.D

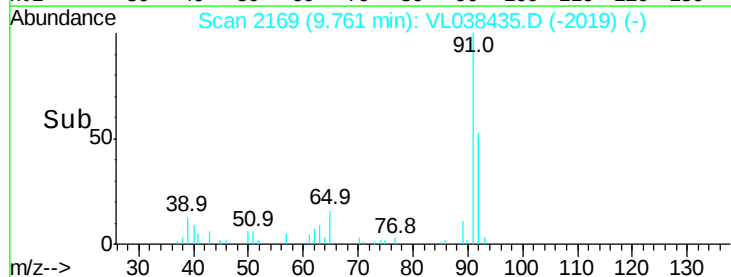
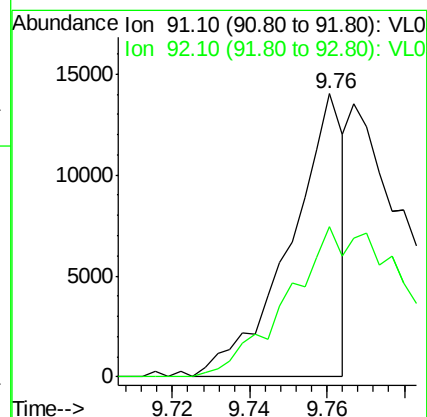
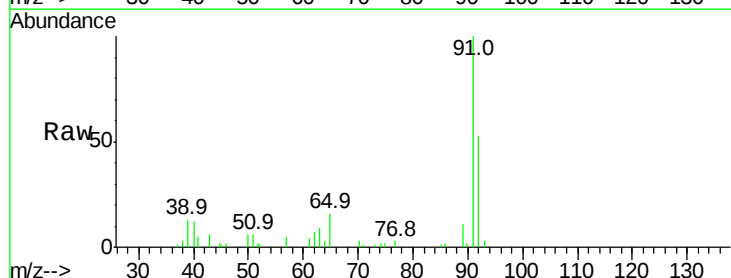
Acq: 24 Feb 2022 15:28

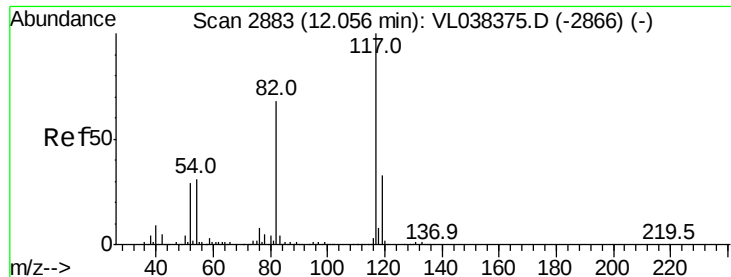
Tgt Ion: 91 Resp: 13454

Ion Ratio Lower Upper

91 100

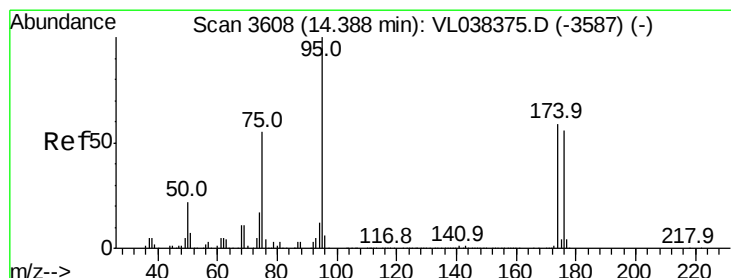
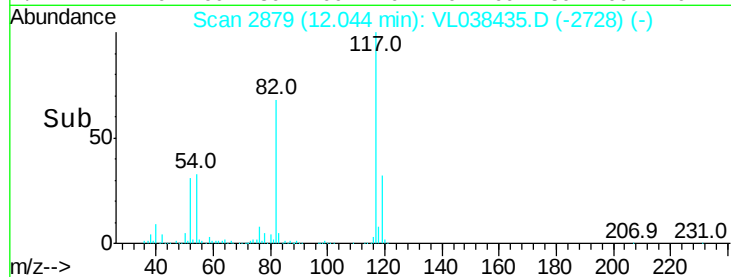
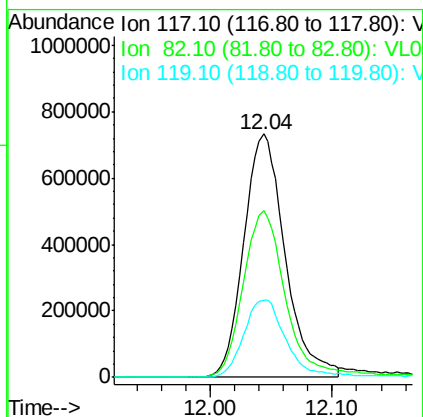
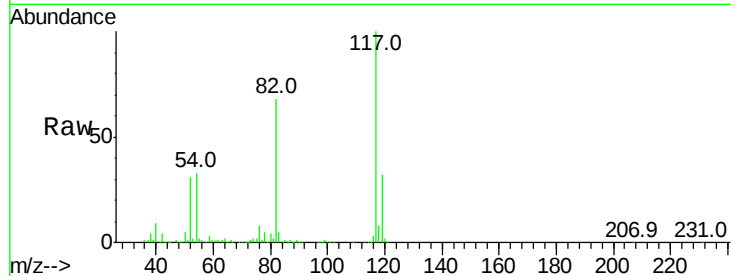
92 120.9 48.2 72.4#





#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.04 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Feb 2022 15:28

Tgt Ion: 117 Resp: 1706968
 Ion Ratio Lower Upper
 117 100
 82 72.9 54.9 82.3
 119 34.3 46.1 69.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.29 ppbv
 RT: 14.37 min Scan# 3603
 Delta R.T.: -0.02 min
 Lab File: VL038435.D
 Acq: 24 Feb 2022 15:28

Tgt Ion: 95 Resp: 1312598
 Ion Ratio Lower Upper
 95 100
 174 62.0 49.0 73.4
 175 4.2 3.6 5.4

