

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039103.D
 Acq On : 24 May 2022 3:43
 Operator : SY/AP
 Sample : N2957-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1DL

Quant Time: May 24 06:04:43 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1279795	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3327430	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2834484	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2141307	9.54	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

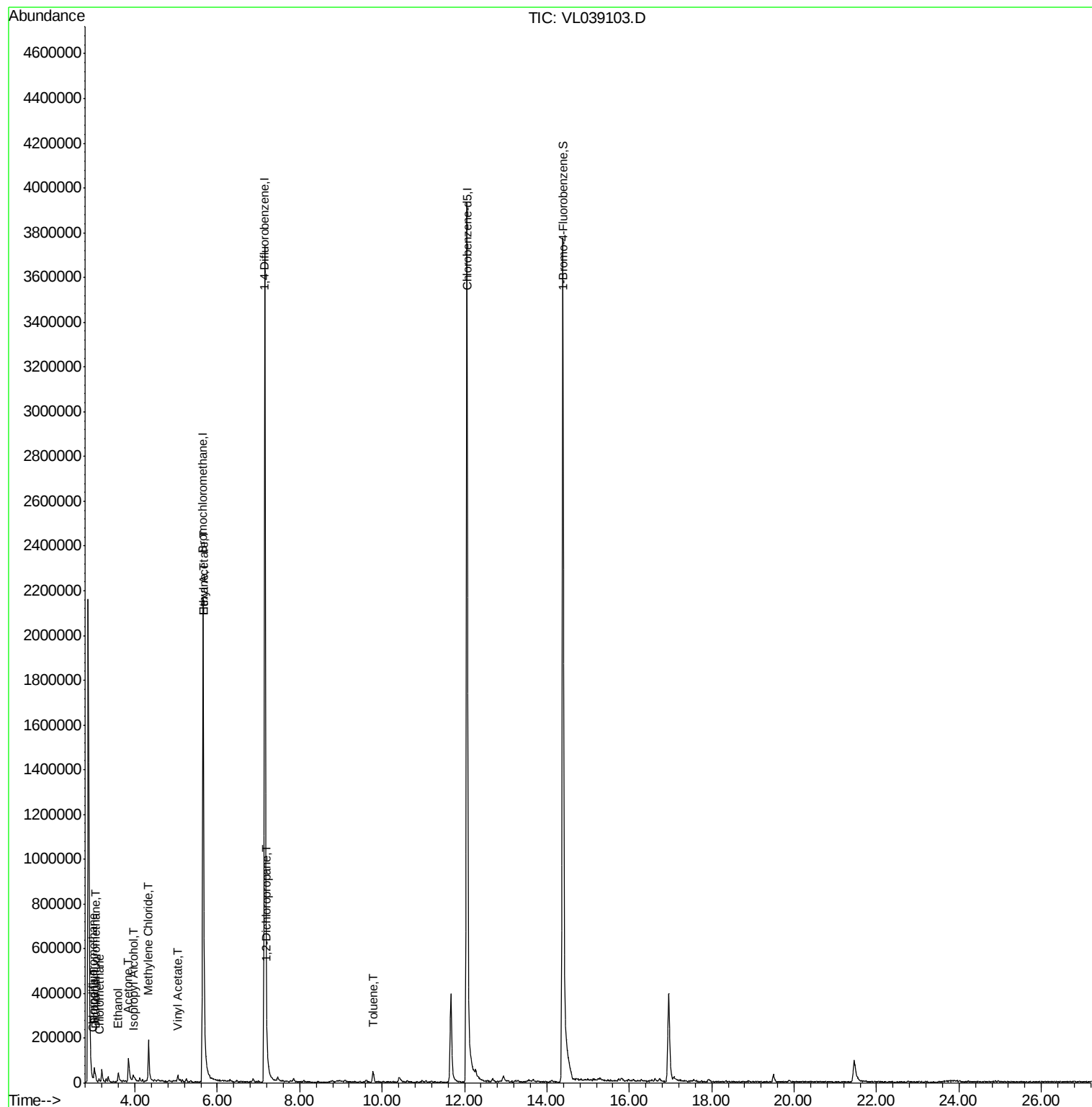
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	10941	0.055	ppbv	99
3) Chlorodifluoromethane	2.98	51	27623	0.174	ppbv #	78
4) Chloromethane	3.14	50	11866	0.149	ppbv #	67
9) Propene	3.01	41	14521	0.209	ppbv	84
13) Ethanol	3.60	45	43497	8.863	ppbv	97
15) Acetone	3.84	43	136665	1.132	ppbv	94
19) Isopropyl Alcohol	3.96	45	25772	0.449	ppbv #	72
20) Methylene Chloride	4.33	84	68035	1.495	ppbv	94
23) Vinyl Acetate	5.05	43	5345	0.056	ppbv #	1
25) Ethyl Acetate	5.67	43	25551	0.088	ppbv #	85
26) Hexane	5.67	57	26361	0.205	ppbv #	36
39) 1,2-Dichloropropane	7.20	63	17997	0.162	ppbv #	23
53) Toluene	9.78	91	20480	0.064	ppbv #	39

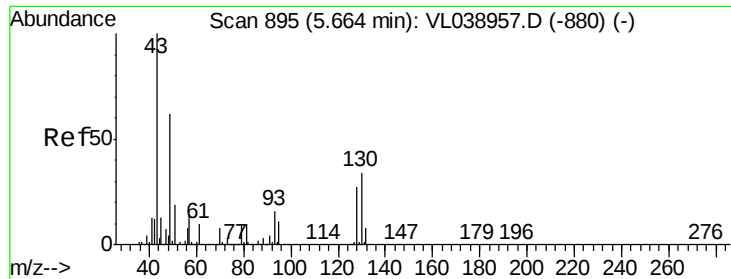
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-1DL

Acq: 24 May 2022 3:43

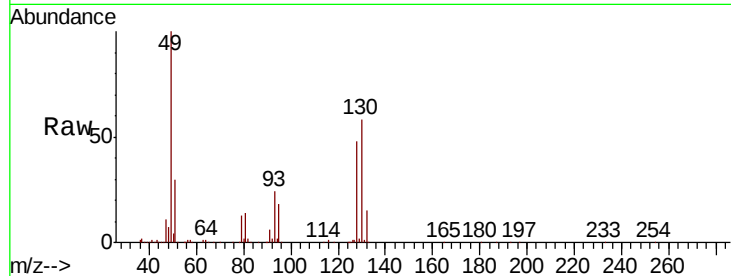
Tot Ion: 49 Resp: 1279795

Ion Ratio Lower Upper

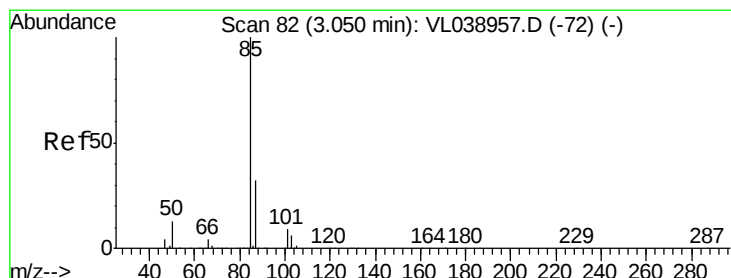
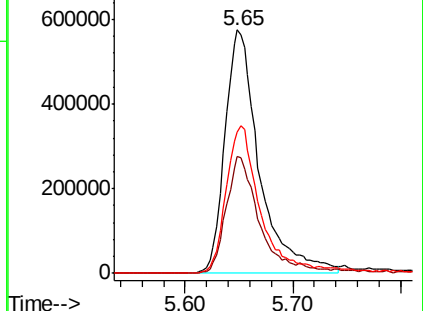
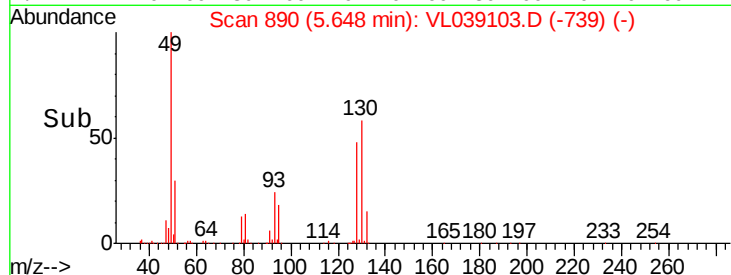
49 100

128 48.3 23.3 69.8

130 61.6 29.8 89.3



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



#2

Dichlorodifluoromethane

Concen: 0.055 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL039103.D

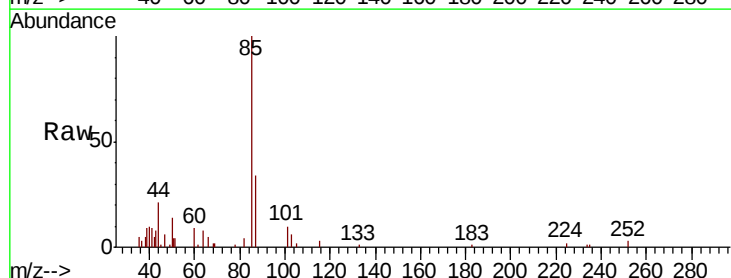
Acq: 24 May 2022 3:43

Tgt Ion: 85 Resp: 10941

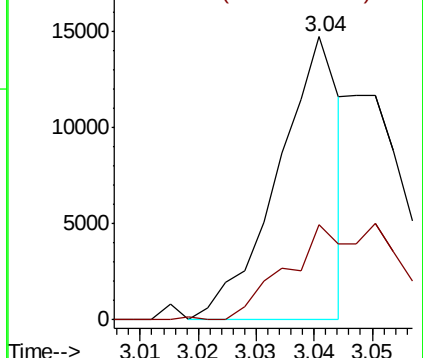
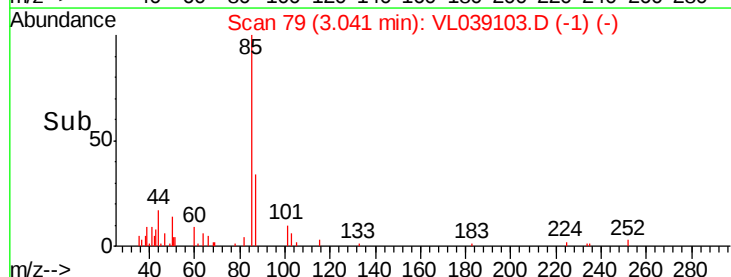
Ion Ratio Lower Upper

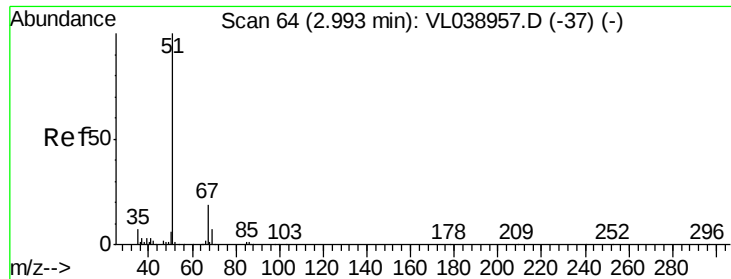
85 100

87 32.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.174 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-1DL

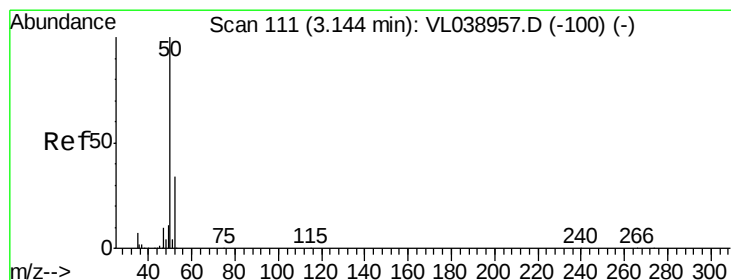
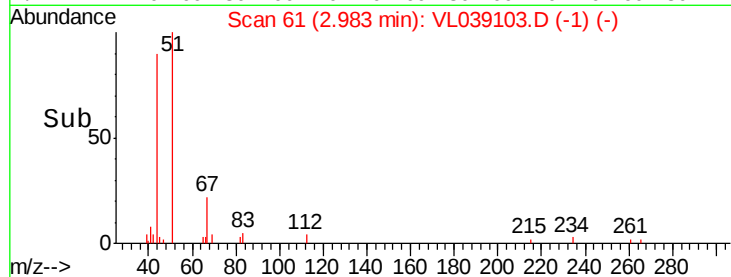
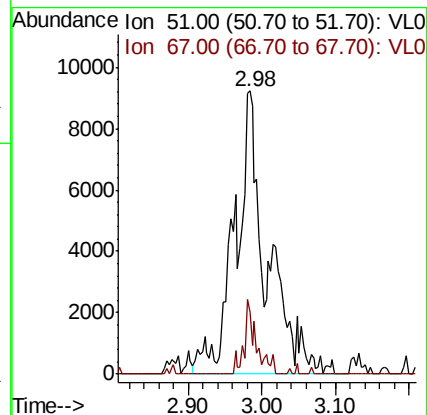
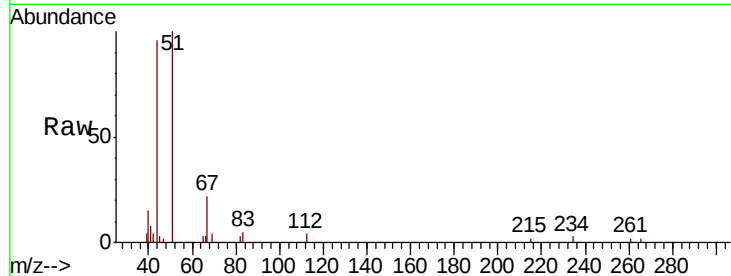
Acq: 24 May 2022 3:43

Tot Ion: 51 Resp: 27623

Ion Ratio Lower Upper

51 100

67 9.8 15.8 23.8#



#4

Chloromethane

Concen: 0.149 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039103.D

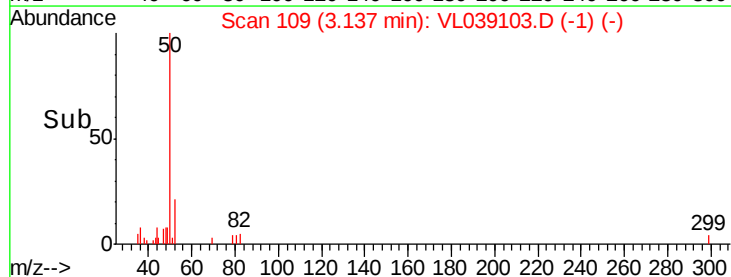
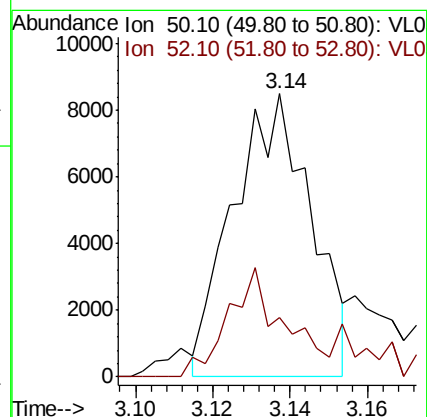
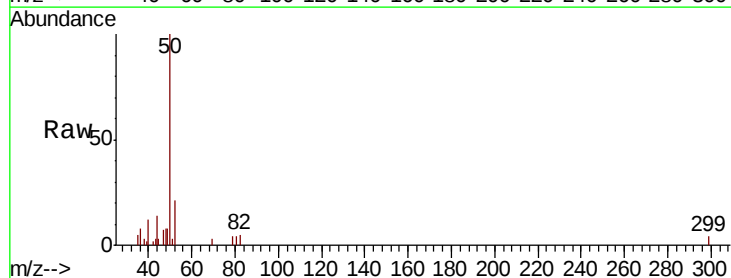
Acq: 24 May 2022 3:43

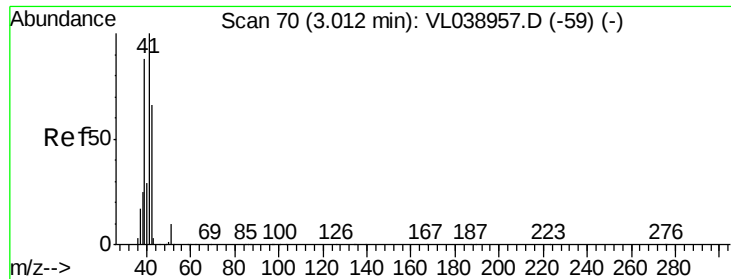
Tgt Ion: 50 Resp: 11866

Ion Ratio Lower Upper

50 100

52 15.2 27.3 40.9#





#9

Propene

Concen: 0.209 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

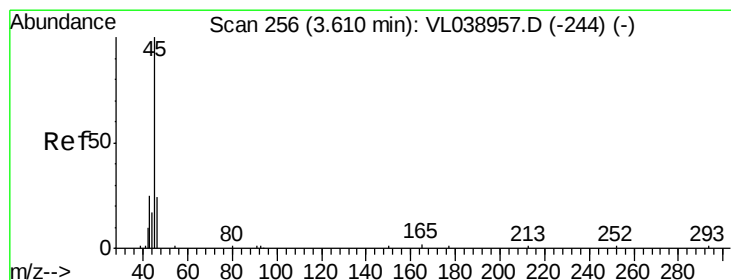
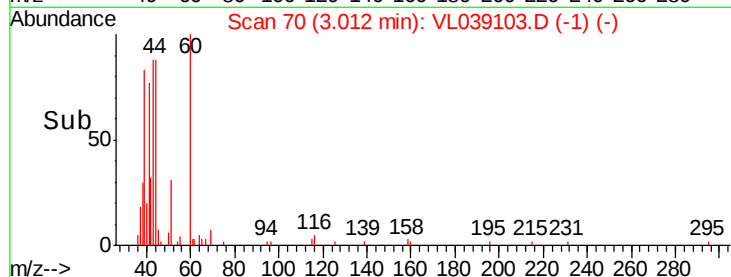
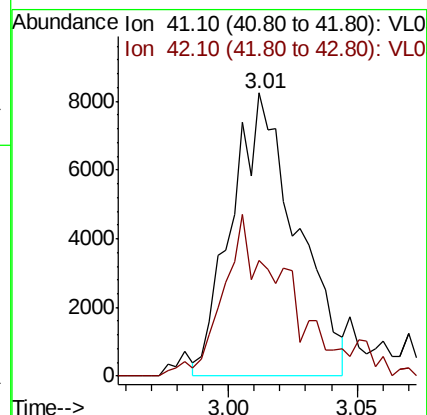
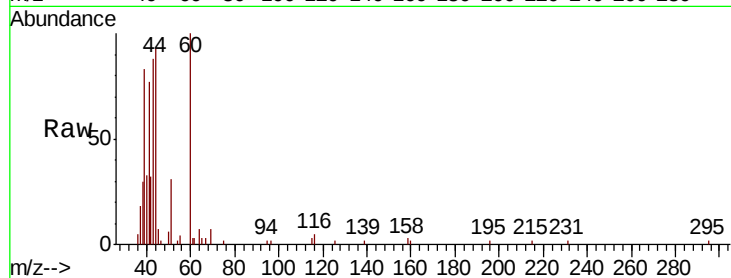
Acq: 24 May 2022 3:43

Tot Ion: 41 Resp: 14521

Ion Ratio Lower Upper

41 100

42 59.3 58.3 87.5



#13

Ethanol

Concen: 8.863 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL039103.D

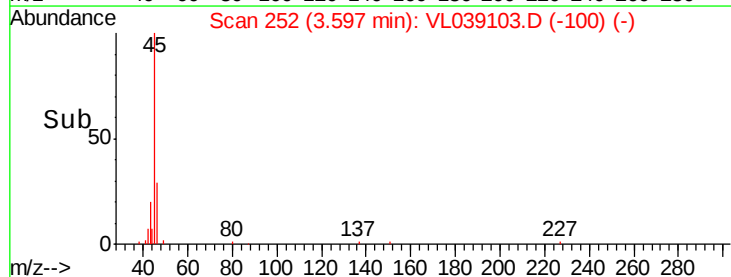
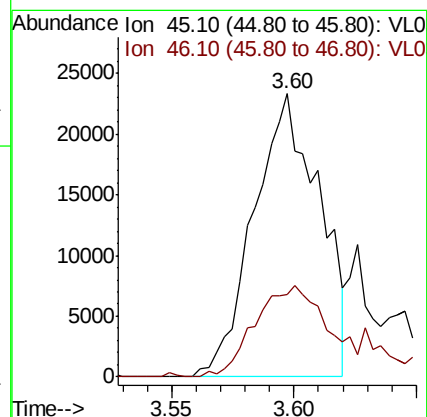
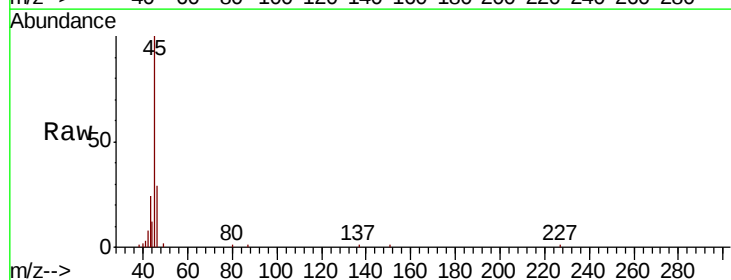
Acq: 24 May 2022 3:43

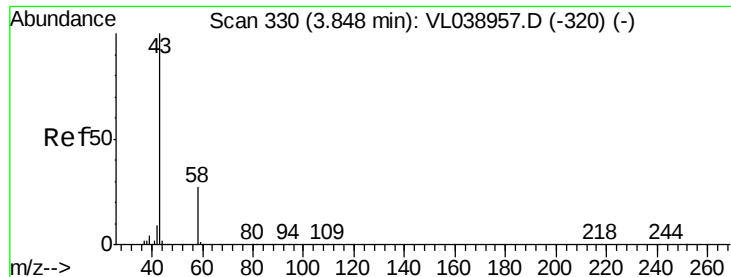
Tgt Ion: 45 Resp: 43497

Ion Ratio Lower Upper

45 100

46 43.0 18.0 72.2





#15

Acetone

Concen: 1.132 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

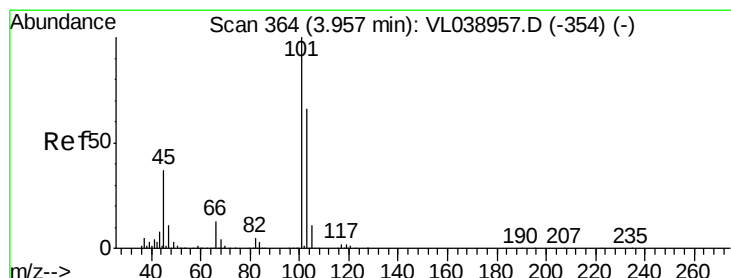
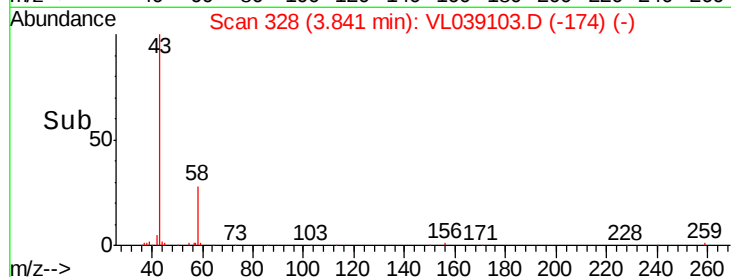
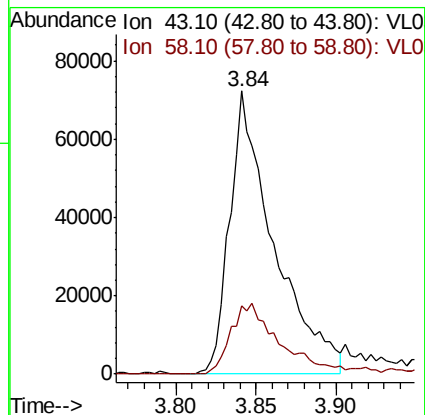
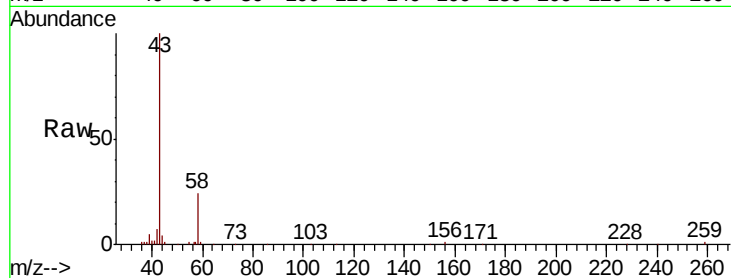
Acq: 24 May 2022 3:43

Tot Ion: 43 Resp: 136665

Ion Ratio Lower Upper

43 100

58 29.8 21.3 31.9



#19

Isopropyl Alcohol

Concen: 0.449 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL039103.D

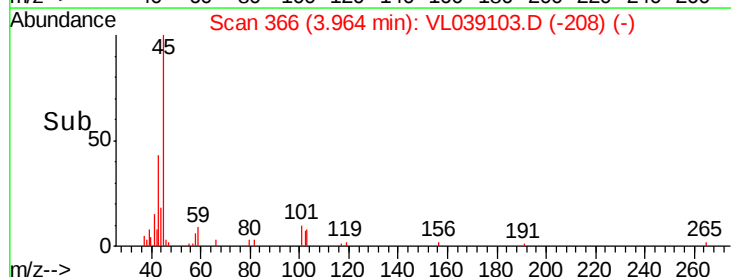
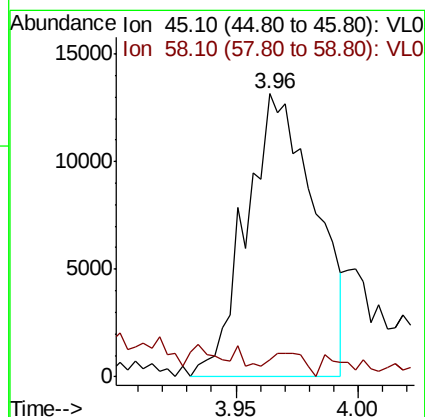
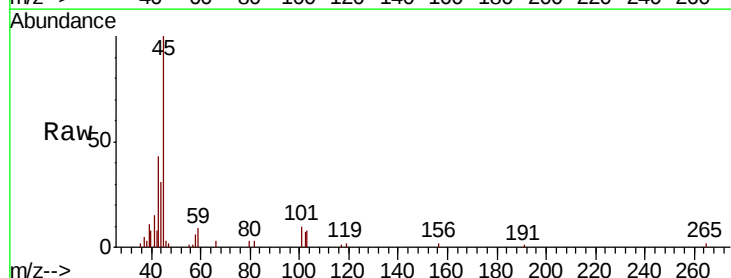
Acq: 24 May 2022 3:43

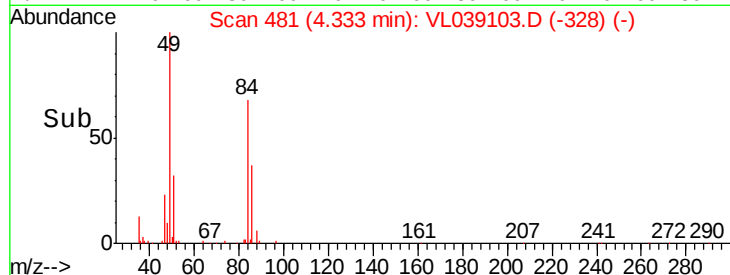
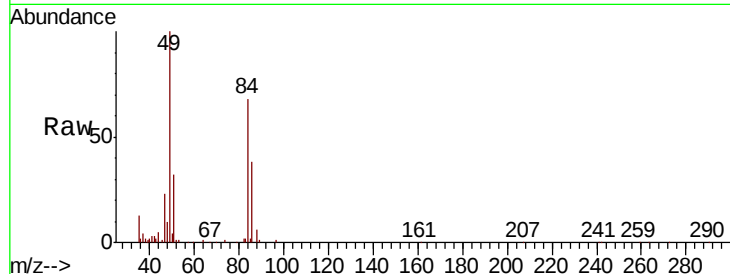
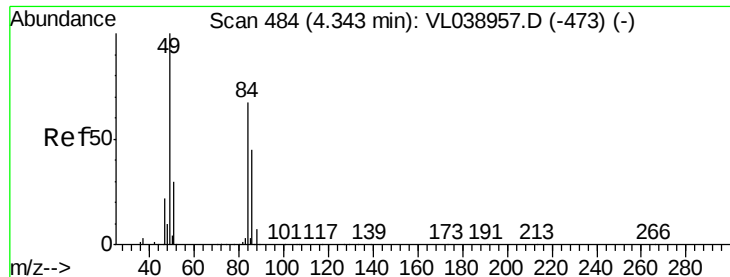
Tgt Ion: 45 Resp: 25772

Ion Ratio Lower Upper

45 100

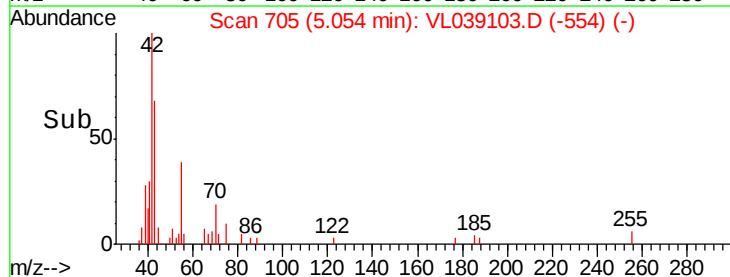
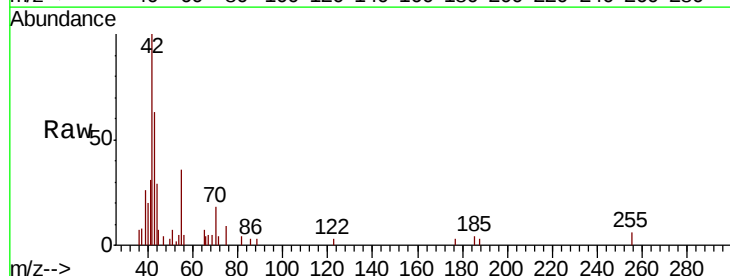
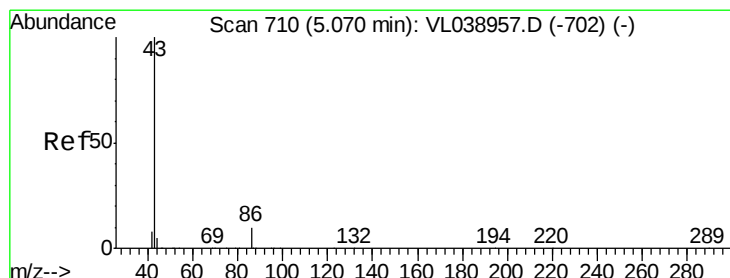
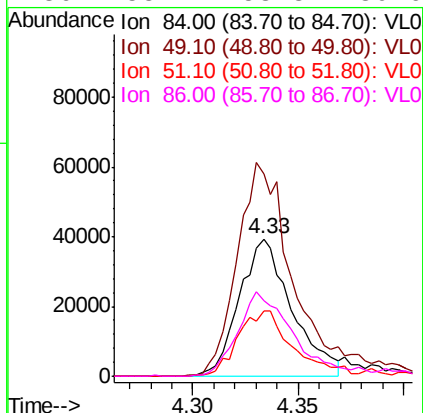
58 11.9 1.4 2.2#





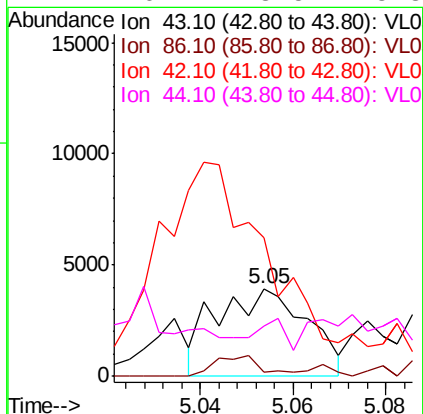
#20
Methvlene Chloride
Concen: 1.495 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 3:43

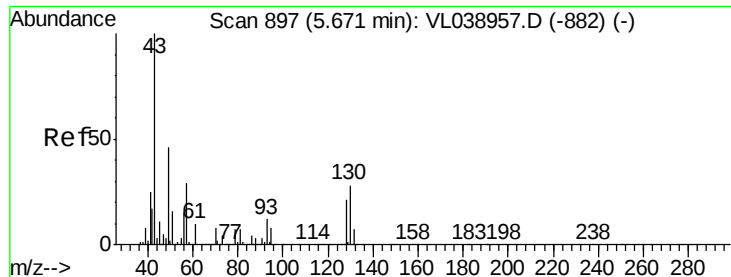
Tot Ion:	84	Resp:	68035
Ion	Ratio	Lower	Upper
84	100		
49	146.6	119.9	179.9
51	47.3	35.7	53.5
86	55.4	53.8	80.6



#23
Vinyl Acetate
Concen: 0.056 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL039103.D
Acq: 24 May 2022 3:43

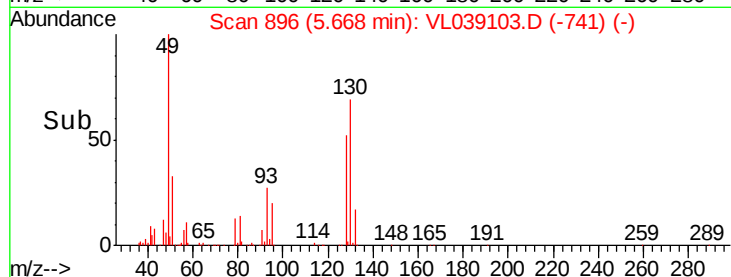
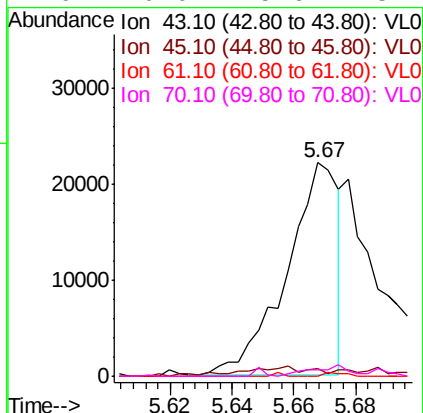
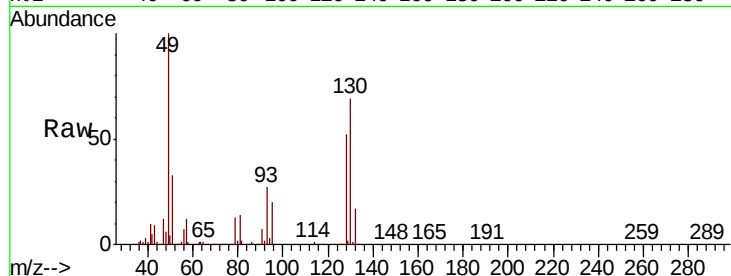
Tgt Ion:	43	Resp:	5345
Ion	Ratio	Lower	Upper
43	100		
86	6.5	6.6	9.8#
42	157.3	8.1	12.1#
44	6.1	3.5	5.3#





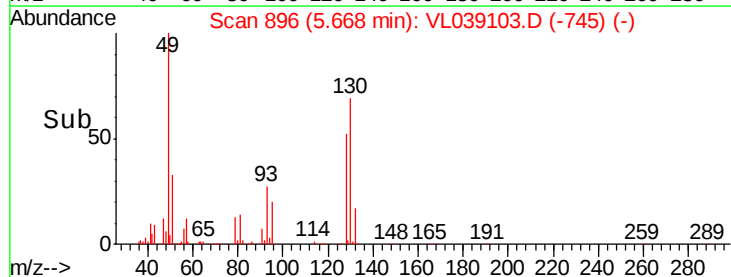
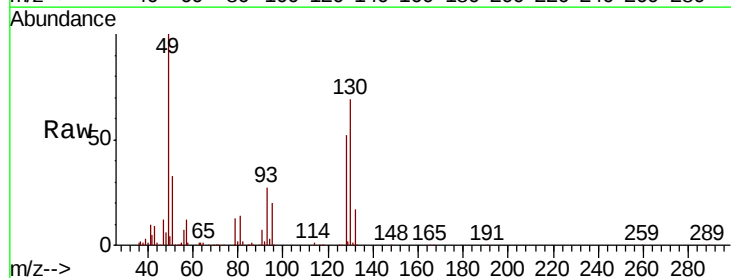
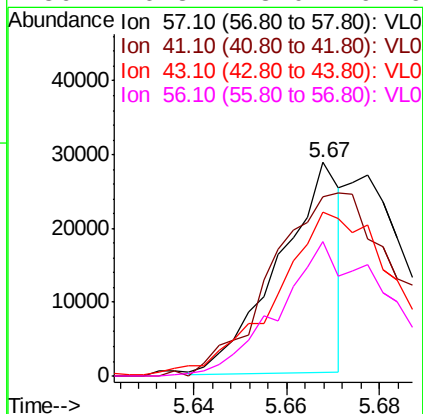
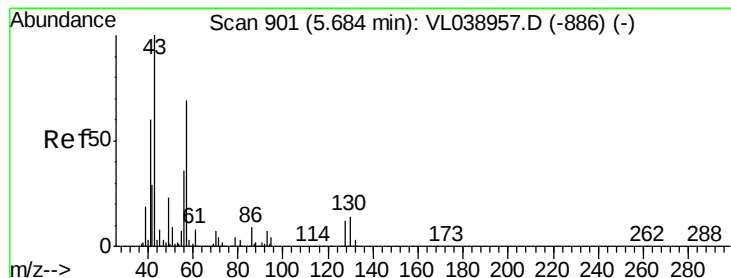
#25
Ethyl Acetate
Concen: 0.088 ppbv
RT: 5.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 3:43

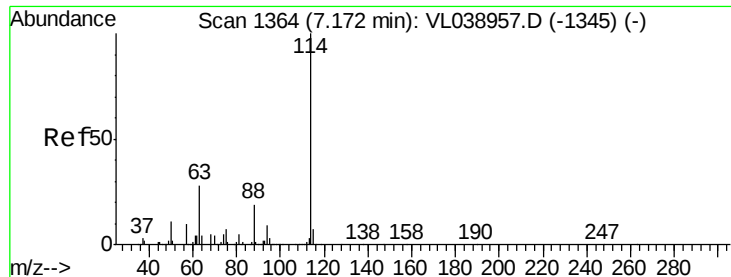
Tot Ion:	43	Resp:	25551
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.1	12.1
61	0.0	7.8	11.6#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.205 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL039103.D
Acq: 24 May 2022 3:43

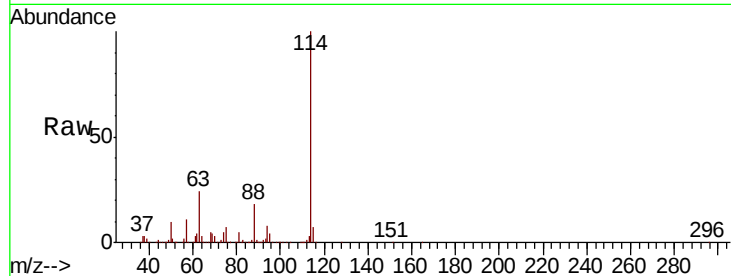
Tgt Ion:	57	Resp:	26361
Ion	Ratio	Lower	Upper
57	100		
41	202.1	75.2	112.8#
43	176.3	190.8	286.2#
56	126.3	43.0	64.6#



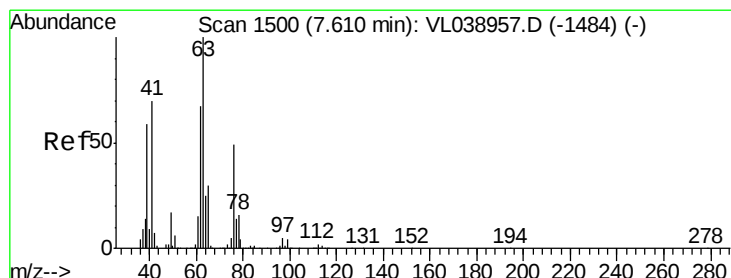
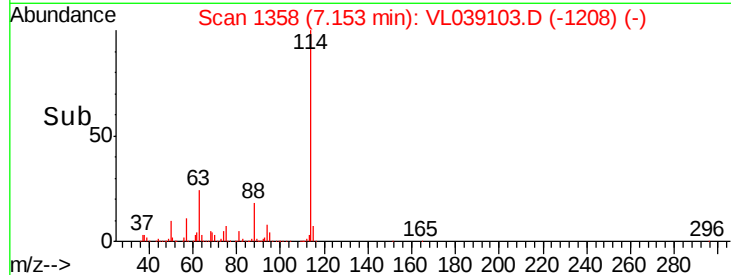
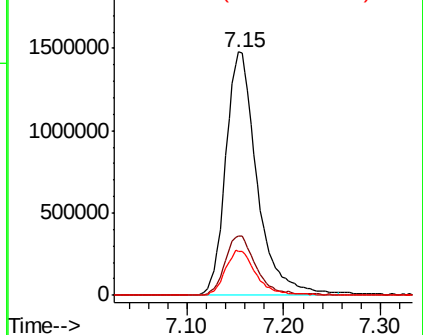


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 AP-1DL
 Acq: 24 May 2022 3:43

Tot Ion: 114 Resp: 3327430
 Ion Ratio Lower Upper
 114 100
 63 25.0 22.6 33.8
 88 18.3 15.4 23.0

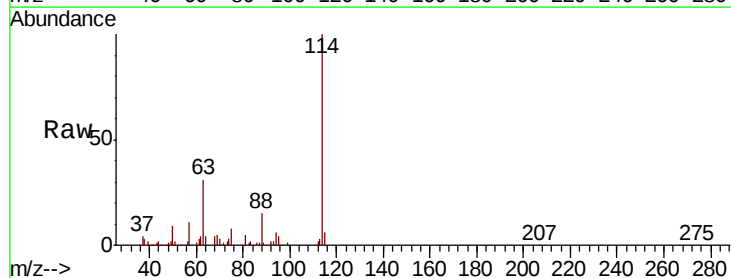


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

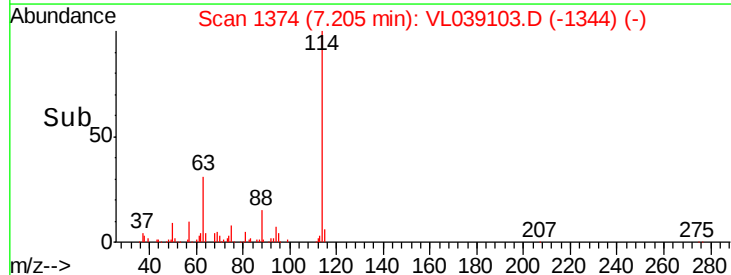
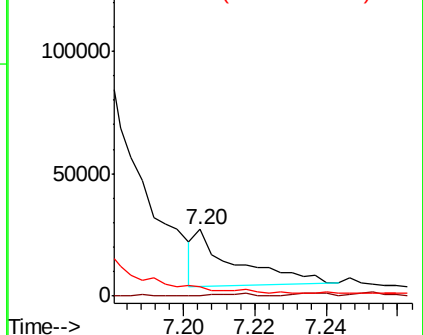


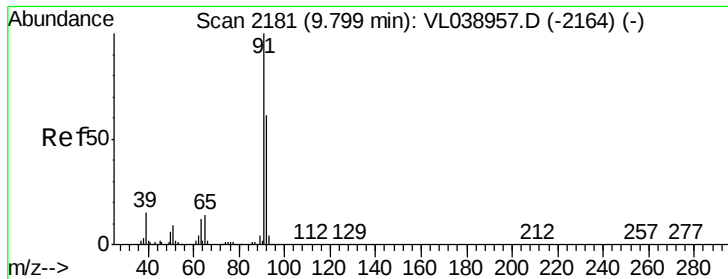
#39
 1,2-Dichloropropane
 Concen: 0.162 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. -0.40 min
 Lab File: VL039103.D
 Acq: 24 May 2022 3:43

Tgt Ion: 63 Resp: 17997
 Ion Ratio Lower Upper
 63 100
 41 1.0 55.9 83.9#
 62 11.0 53.8 80.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.064 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

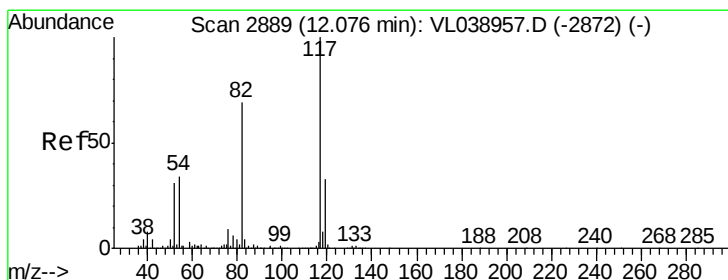
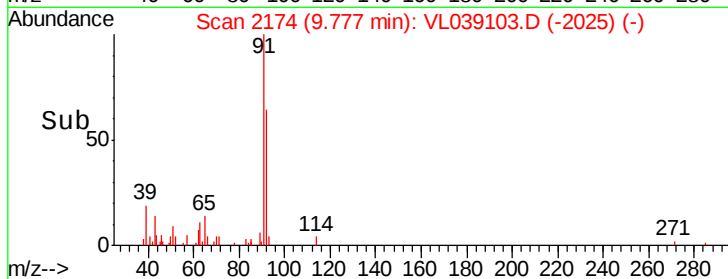
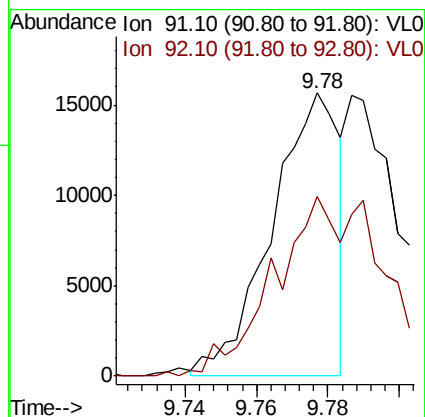
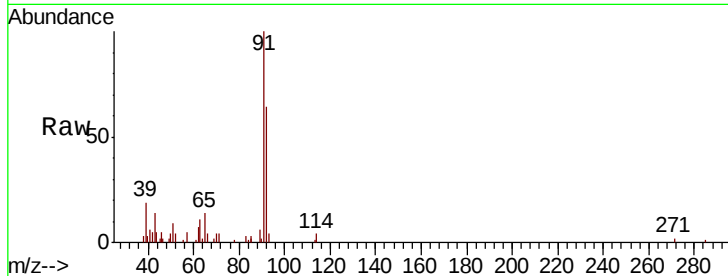
Acq: 24 May 2022 3:43

Tot Ion: 91 Resp: 20480

Ion Ratio Lower Upper

91 100

92 106.7 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL039103.D

Acq: 24 May 2022 3:43

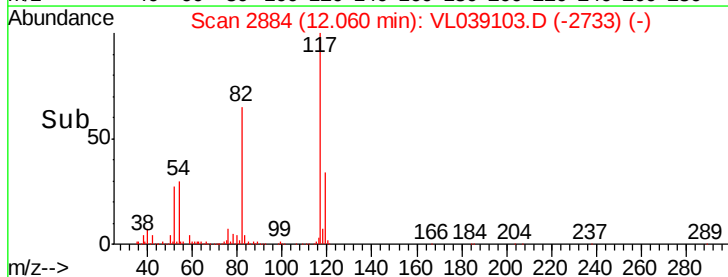
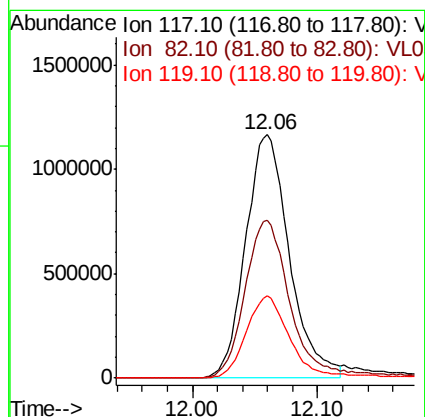
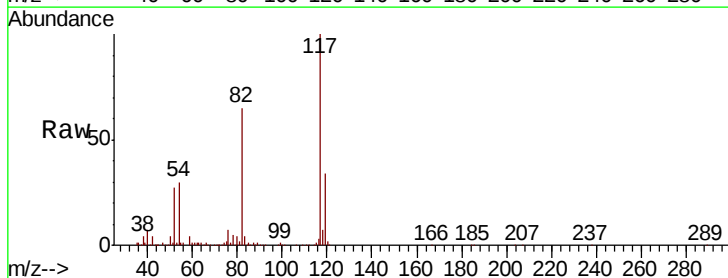
Tgt Ion: 117 Resp: 2834484

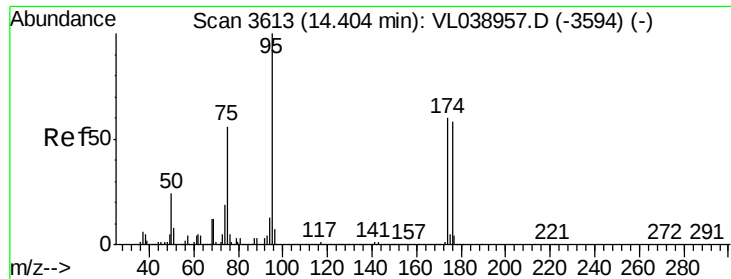
Ion Ratio Lower Upper

117 100

82 69.6 57.0 85.6

119 35.1 27.2 40.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.539 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 24 May 2022 3.45

Tot Ion: 95 Resp: 2141307

Ion Ratio Lower Upper

95 100

174 68.8 50.8 76.2

175 4.7 3.8 5.6

