

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL039008.D
 Acq On : 10 May 2022 4:59
 Operator : SY/AP
 Sample : N2696-04DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Quant Time: May 10 05:49:15 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1062020	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2971163	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2573822	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	1825425	8.96	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.60%

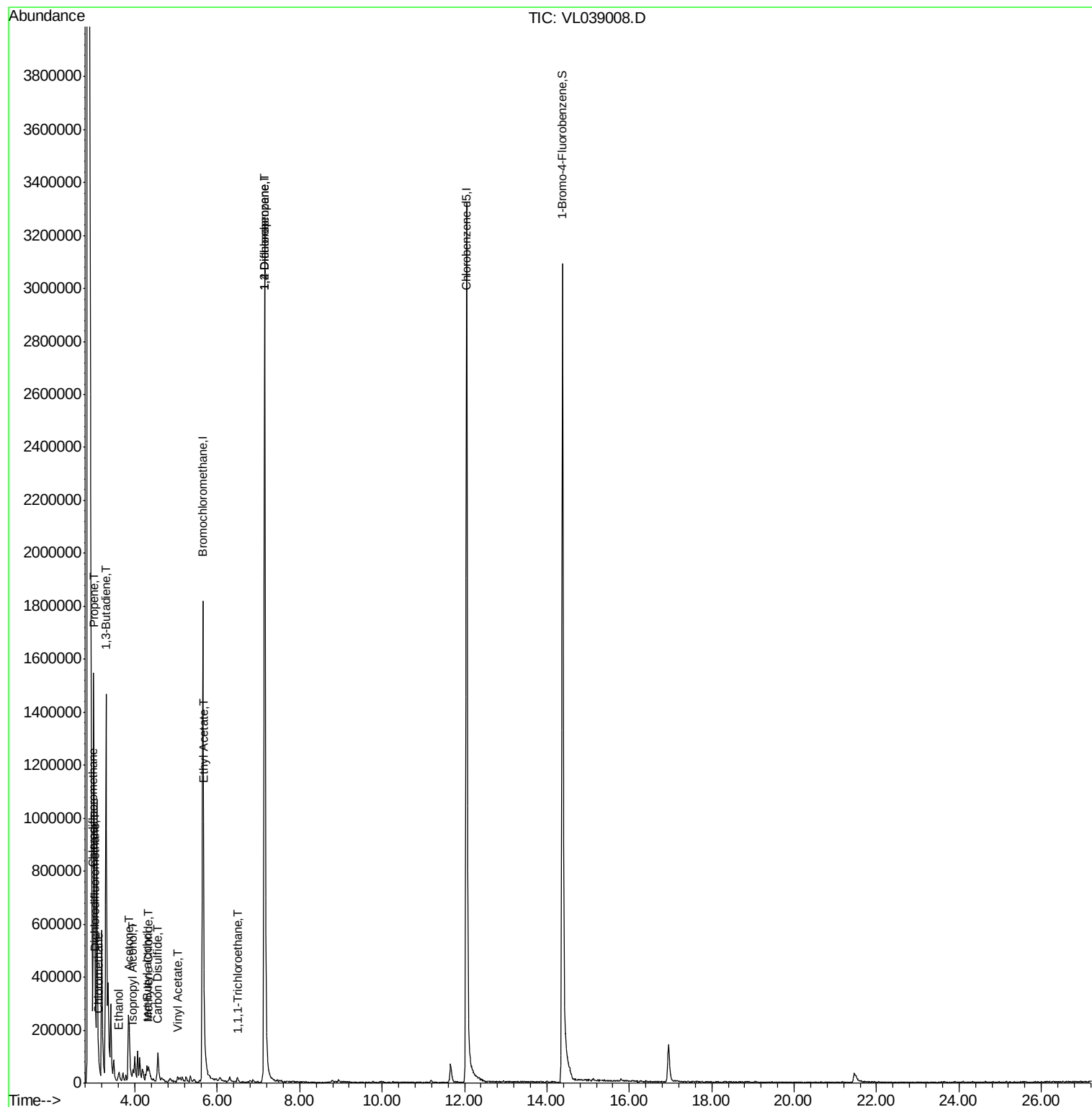
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	18474	0.111 ppbv	96
3) Chlorodifluoromethane	2.98	51	12777	0.097 ppbv #	81
4) Chloromethane	3.13	50	20592	0.312 ppbv	97
9) Propene	3.00	41	796096	13.833 ppbv	93
13) Ethanol	3.60	45	31354	7.699 ppbv	99
15) Acetone	3.84	43	364262	3.636 ppbv	97
16) 1,3-Butadiene	3.30	39	535387	9.302 ppbv #	25
17) tert-Butyl alcohol	4.29	59	21790	0.283 ppbv #	85
19) Isopropyl Alcohol	3.95	45	1831	0.038 ppbv #	95
20) Methylene Chloride	4.32	84	14572	0.386 ppbv #	82
23) Vinyl Acetate	5.05	43	4304	0.054 ppbv #	40
25) Ethyl Acetate	5.67	43	9434	0.039 ppbv #	86
27) Carbon Disulfide	4.53	76	34072	0.337 ppbv #	75
32) 1,1,1-Trichloroethane	6.49	97	5423	0.031 ppbv #	20
39) 1,2-Dichloropropane	7.15	63	671230	6.785 ppbv #	24

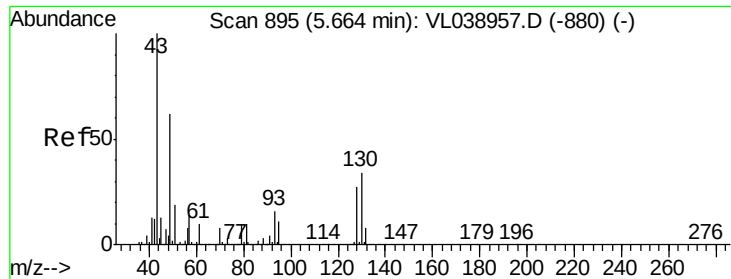
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
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SV4DL

Quant Time: May 10 05:49:15 2022
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV4DL

Acq: 10 May 2022 4:59

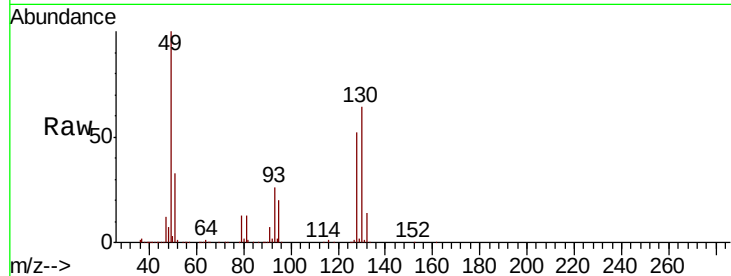
Tot Ion: 49 Resp: 1062020

Ion Ratio Lower Upper

49 100

128 52.3 23.3 69.8

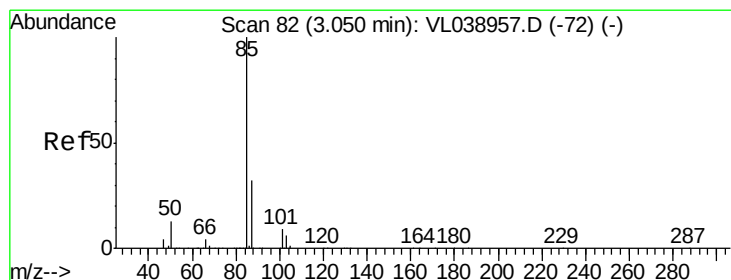
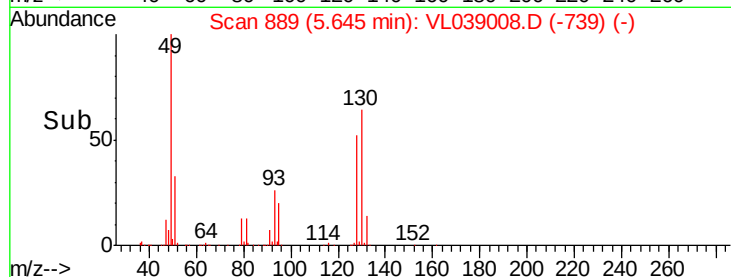
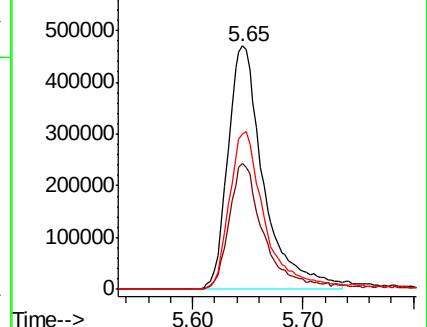
130 66.8 29.8 89.3



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: 0.111 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL039008.D

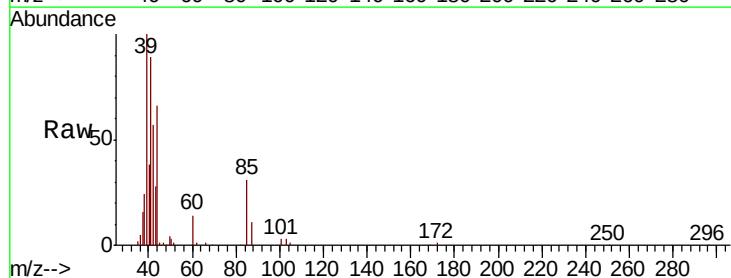
Acq: 10 May 2022 4:59

Tgt Ion: 85 Resp: 18474

Ion Ratio Lower Upper

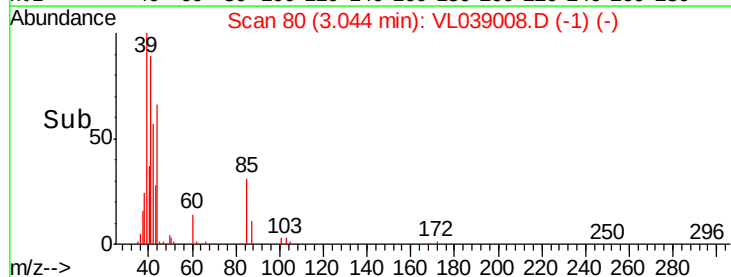
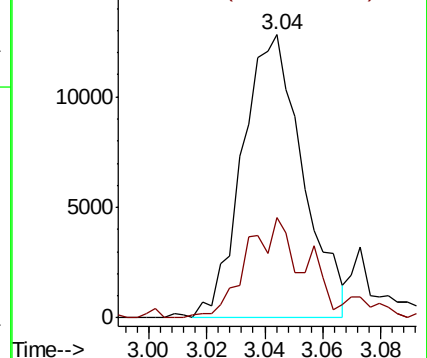
85 100

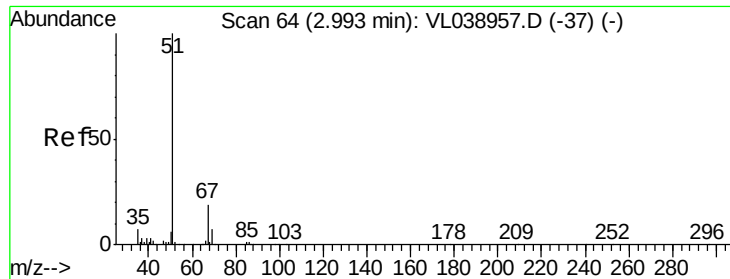
87 34.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

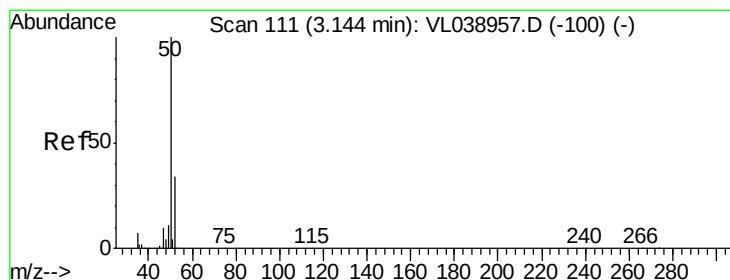
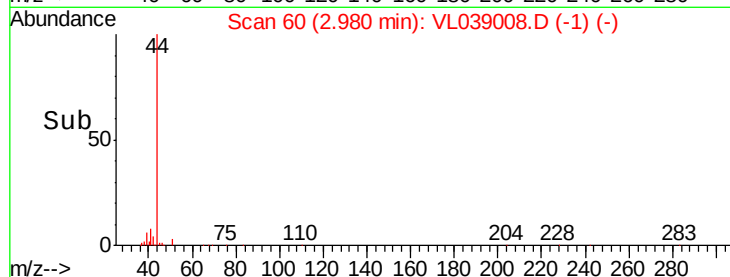
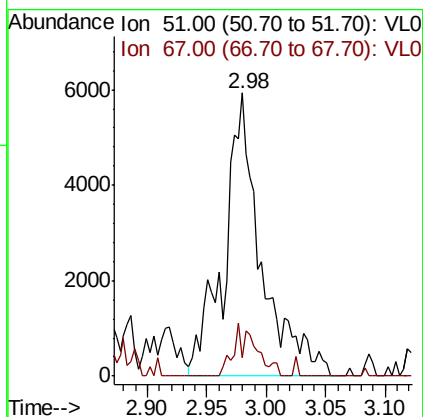
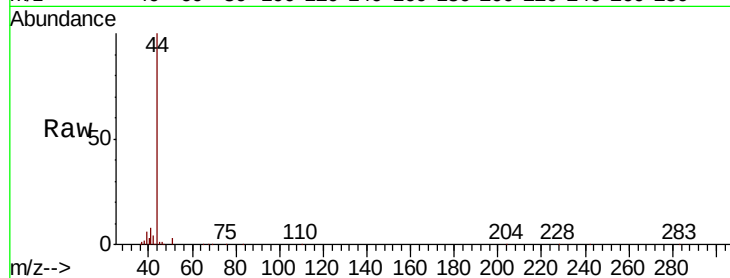
Ion 87.00 (86.70 to 87.70): VL0





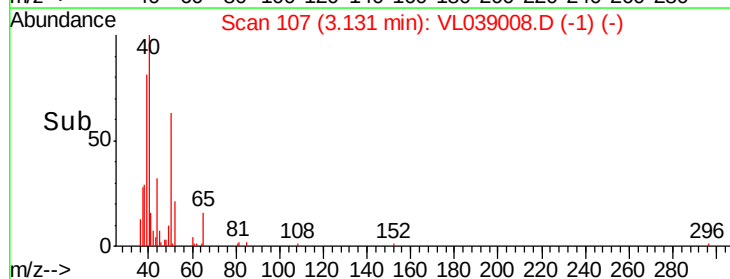
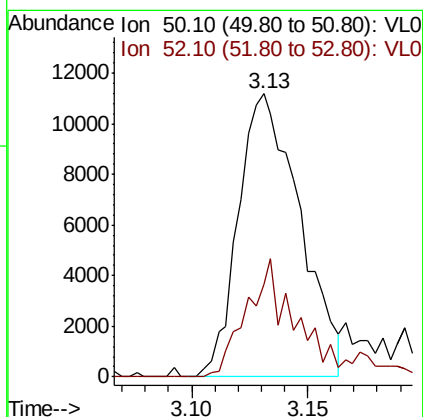
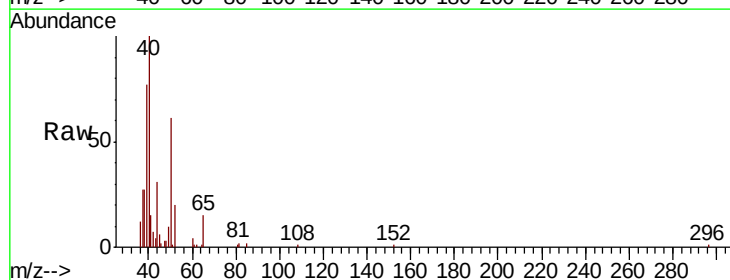
#3
Chlorodifluoromethane
Concen: 0.097 ppbv
RT: 2.98
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : SV4DL
Acq: 10 May 2022 4:59

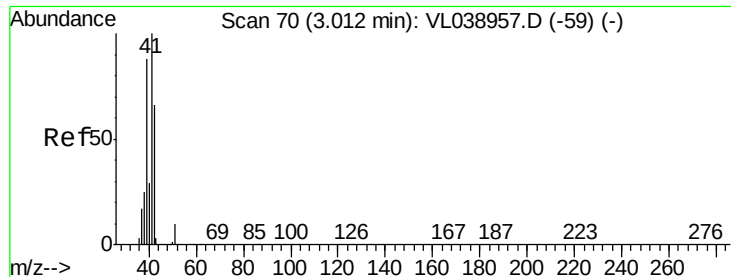
Tot Ion: 51 Resp: 12777
Ion Ratio Lower Upper
51 100
67 11.0 15.8 23.8#



#4
Chloromethane
Concen: 0.312 ppbv
RT: 3.13 min Scan# 107
Delta R.T. -0.01 min
Lab File: VL039008.D
Acq: 10 May 2022 4:59

Tgt Ion: 50 Resp: 20592
Ion Ratio Lower Upper
50 100
52 32.5 27.3 40.9





#9

Propene

Concen: 13.833 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV4DL

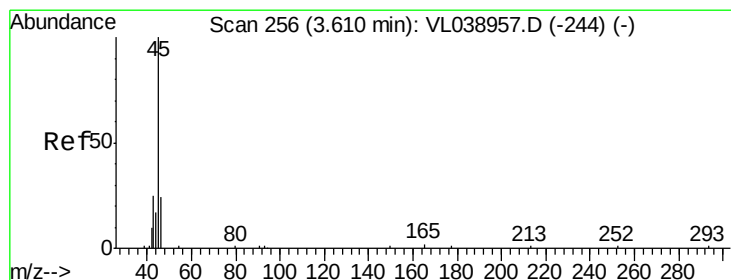
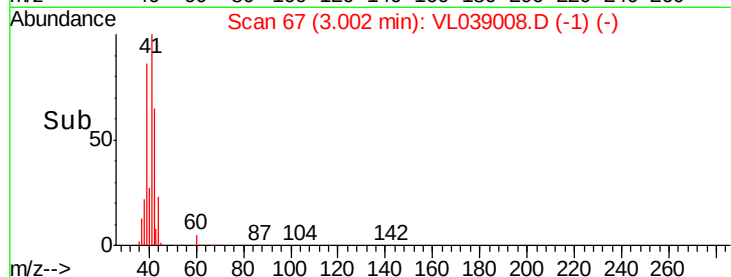
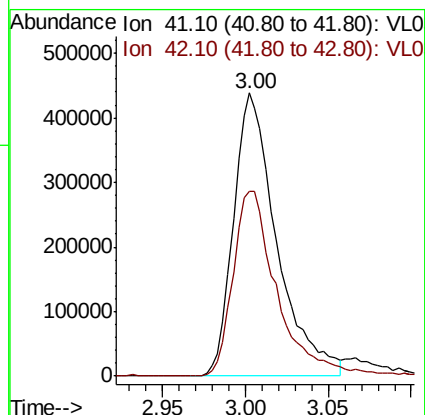
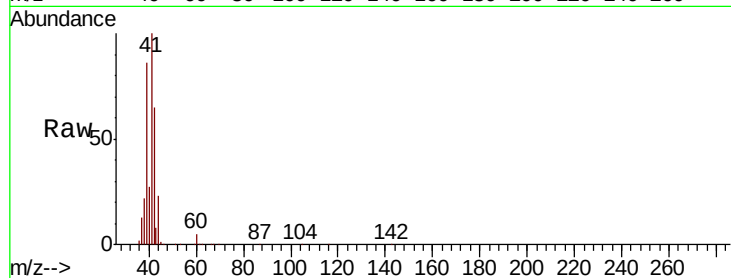
Acq: 10 May 2022 4:59

Tot Ion: 41 Resp: 796096

Ion Ratio Lower Upper

41 100

42 67.2 58.3 87.5



#13

Ethanol

Concen: 7.699 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL039008.D

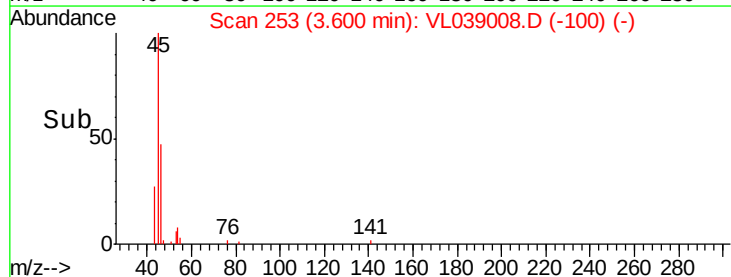
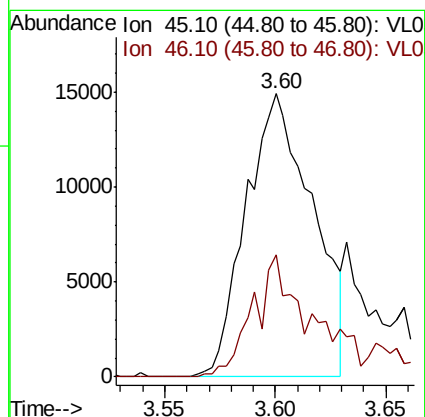
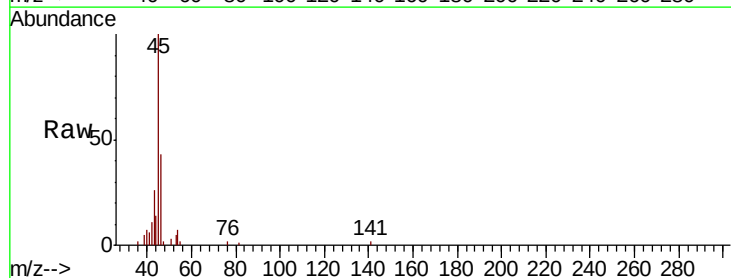
Acq: 10 May 2022 4:59

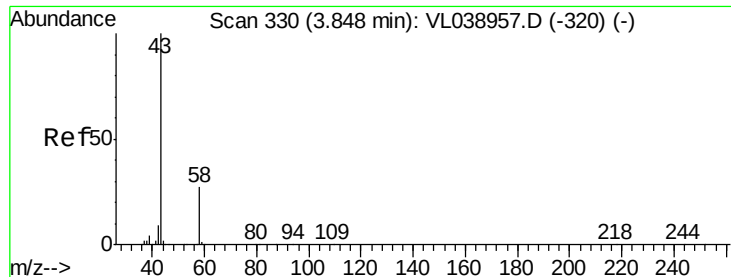
Tgt Ion: 45 Resp: 31354

Ion Ratio Lower Upper

45 100

46 44.5 18.0 72.2





#15

Acetone

Concen: 3.636 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

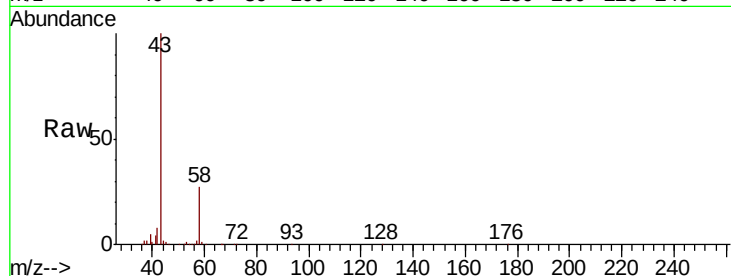
Acq: 10 May 2022 4:59 SV4DL

Tot Ion: 43 Resp: 364262

Ion Ratio Lower Upper

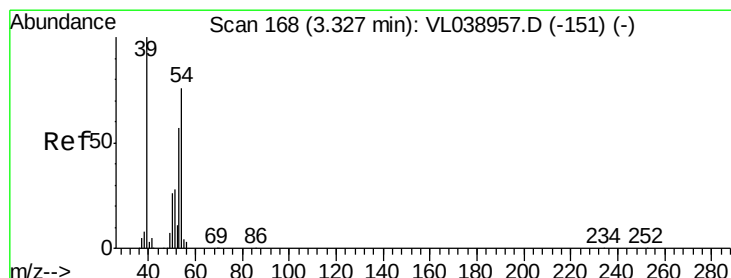
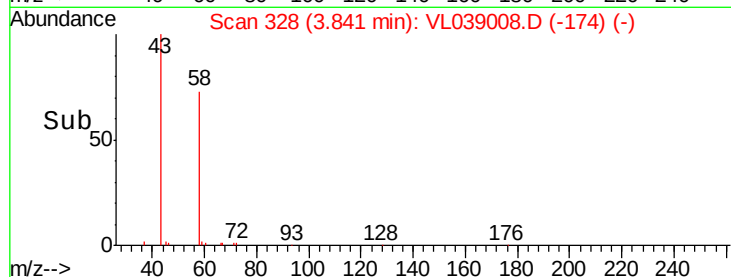
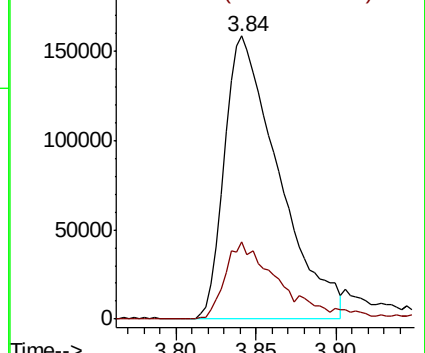
43 100

58 28.3 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.302 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL039008.D

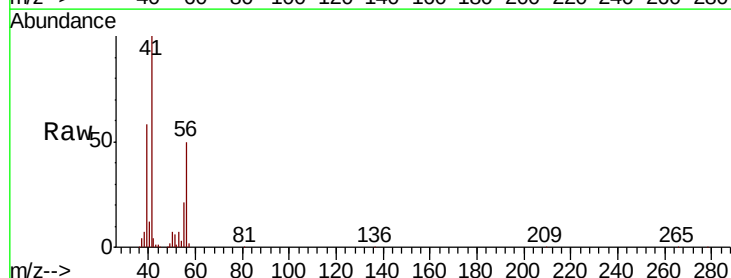
Acq: 10 May 2022 4:59

Tgt Ion: 39 Resp: 535387

Ion Ratio Lower Upper

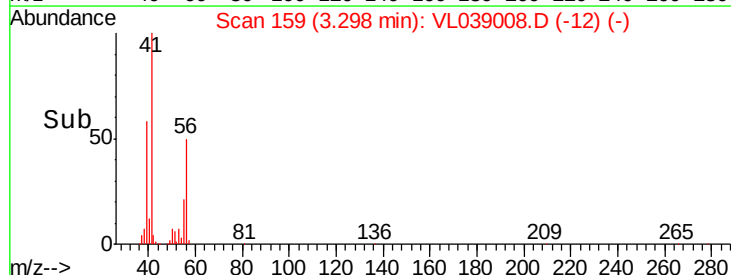
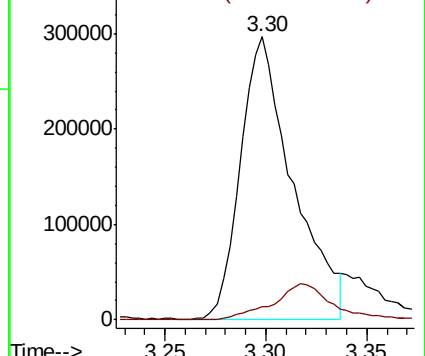
39 100

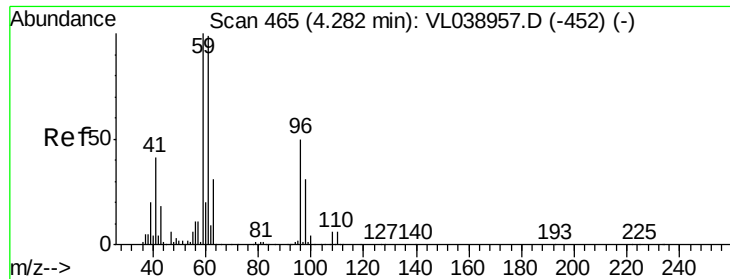
54 14.5 65.2 97.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.283 ppbv

RT: 4.29 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV4DL

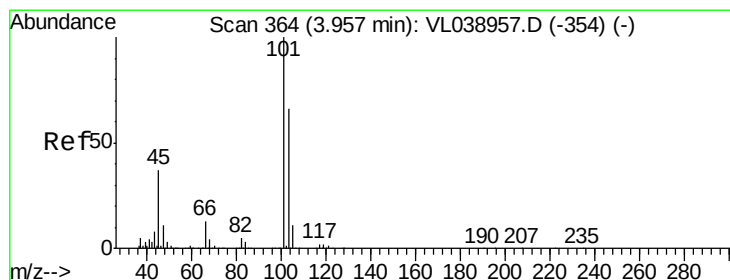
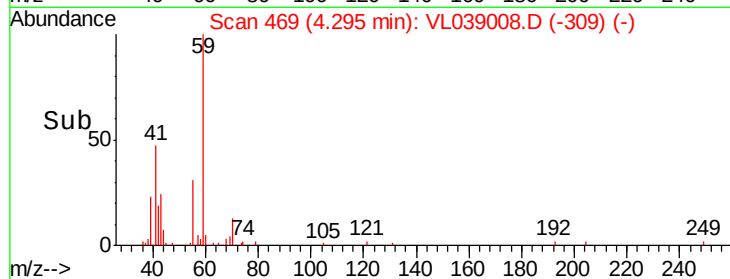
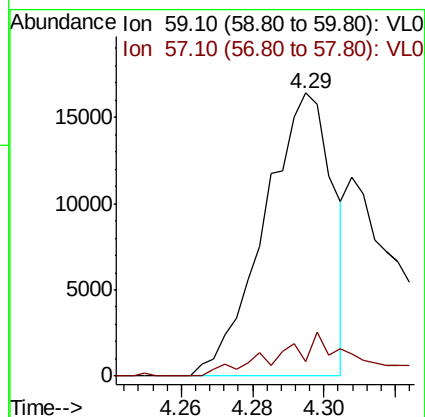
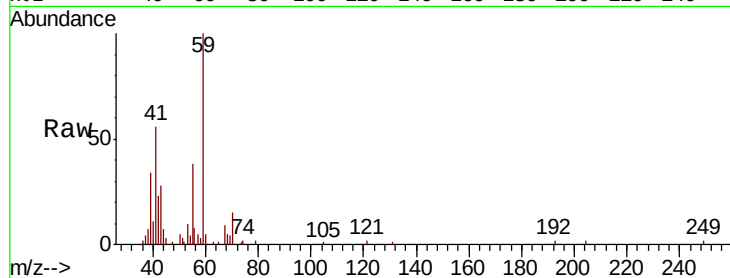
Acq: 10 May 2022 4:59

Tot Ion: 59 Resp: 21790

Ion Ratio Lower Upper

59 100

57 17.1 9.2 13.8#



#19

Isopropyl Alcohol

Concen: 0.038 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL039008.D

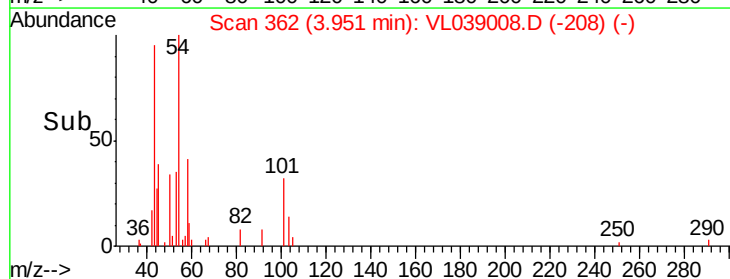
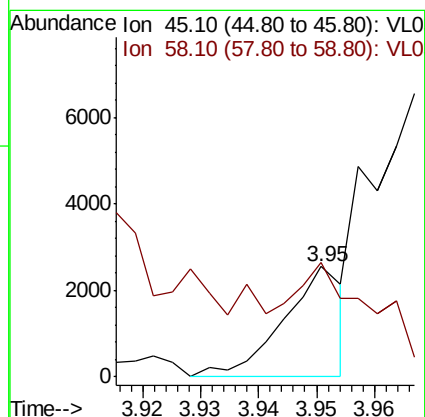
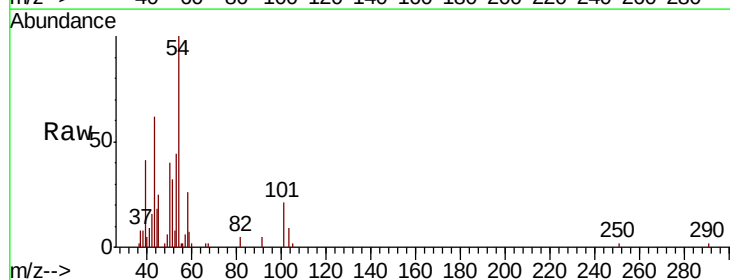
Acq: 10 May 2022 4:59

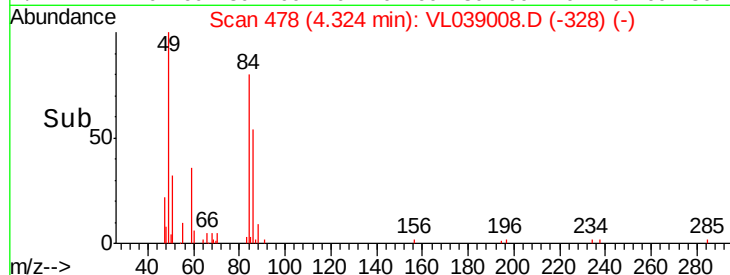
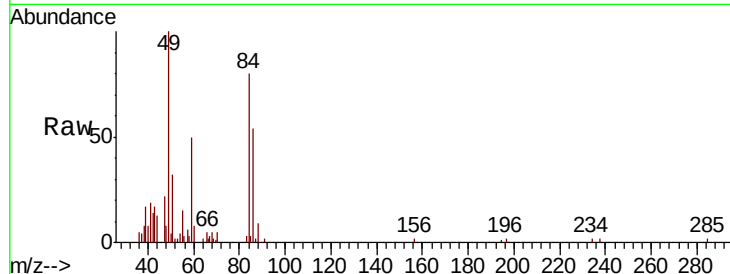
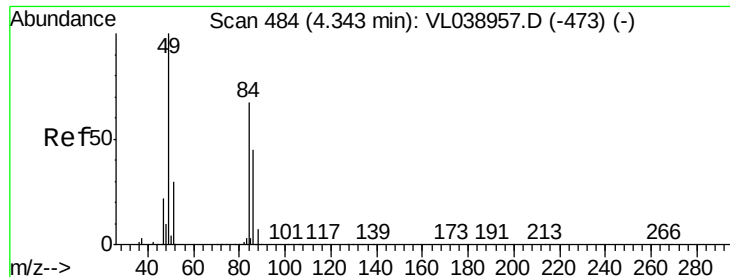
Tgt Ion: 45 Resp: 1831

Ion Ratio Lower Upper

45 100

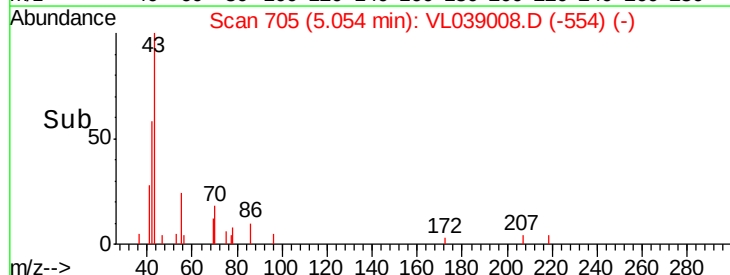
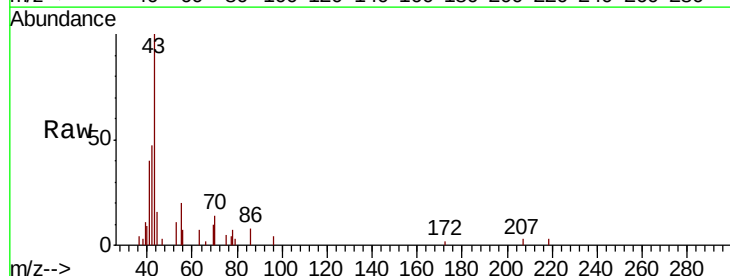
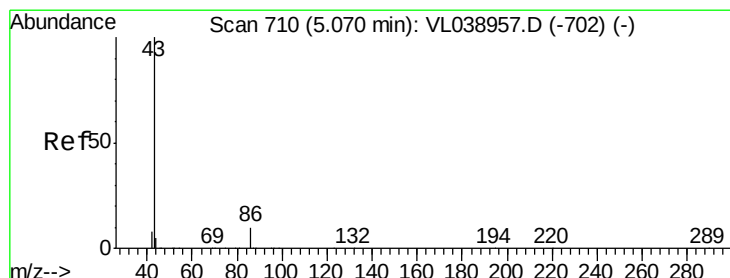
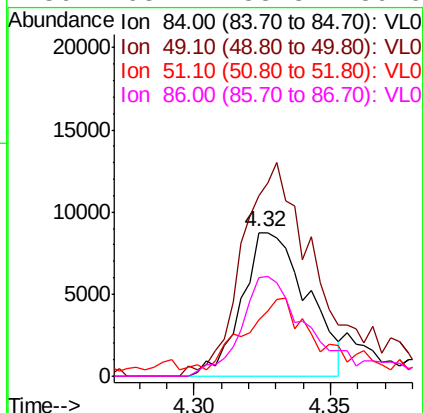
58 0.0 1.4 2.2#





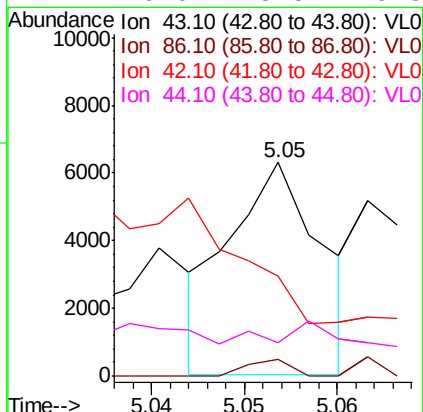
#20
Methylene Chloride
Concen: 0.386 ppbv
RT: 4.32
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4DL
Acq: 10 May 2022 4:59

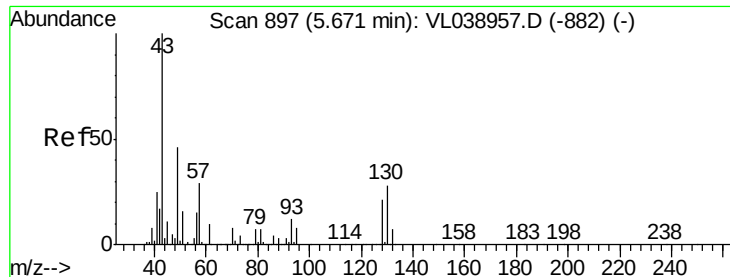
Tot Ion:	84	Resp:	14572
Ion	Ratio	Lower	Upper
84	100		
49	118.2	119.9	179.9#
51	33.6	35.7	53.5#
86	68.2	53.8	80.6



#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL039008.D
Acq: 10 May 2022 4:59

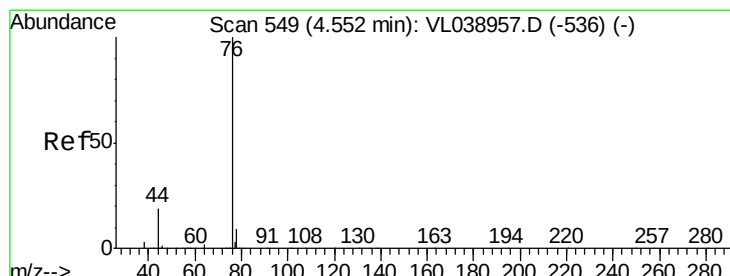
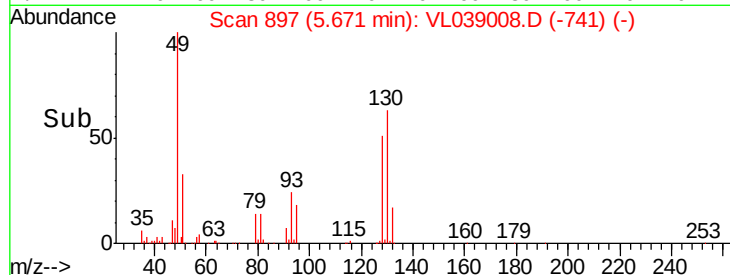
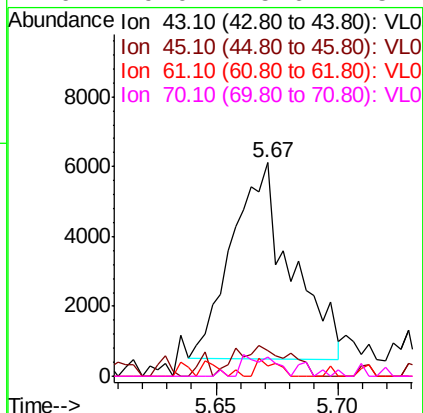
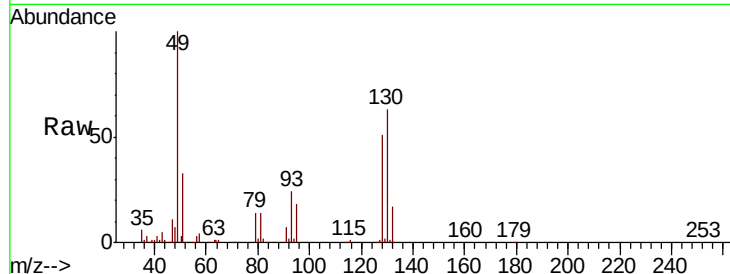
Tgt Ion:	43	Resp:	4304
Ion	Ratio	Lower	Upper
43	100		
86	18.3	6.6	9.8#
42	49.4	8.1	12.1#
44	0.0	3.5	5.3#





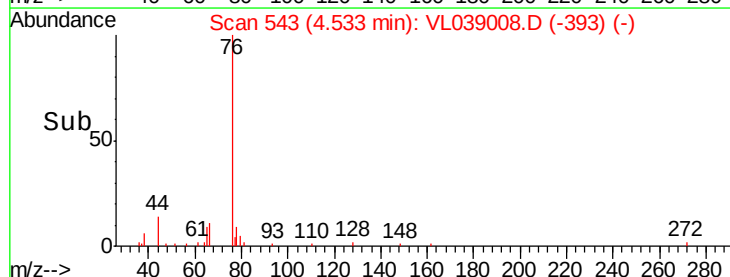
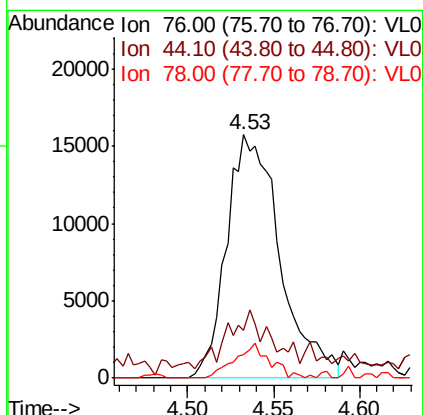
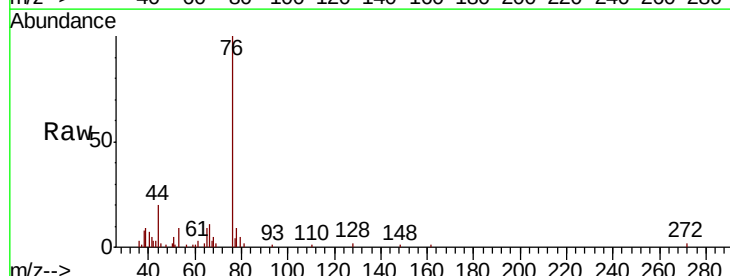
#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4DL
Acq: 10 May 2022 4:59

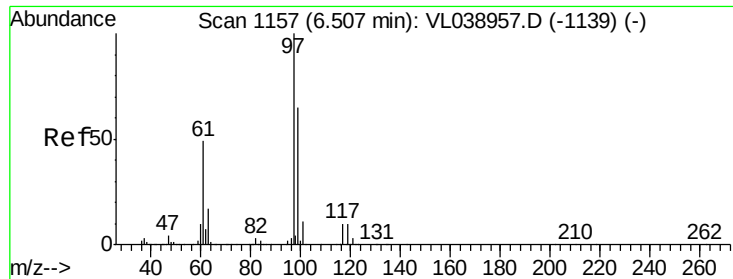
Tot Ion:	43	Resp:	9434
Ion	Ratio	Lower	Upper
43	100		
45	15.8	8.1	12.1#
61	3.0	7.8	11.6#
70	9.0	5.6	8.4#



#27
Carbon Disulfide
Concen: 0.337 ppbv
RT: 4.53 min Scan# 543
Delta R.T. -0.02 min
Lab File: VL039008.D
Acq: 10 May 2022 4:59

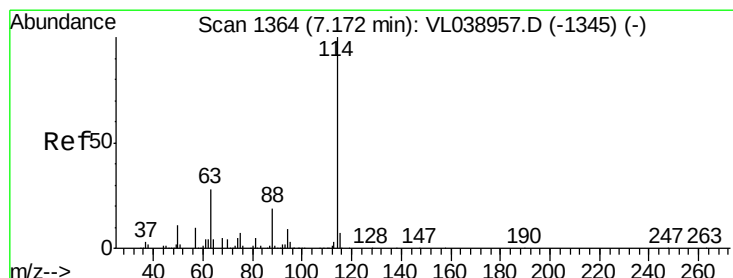
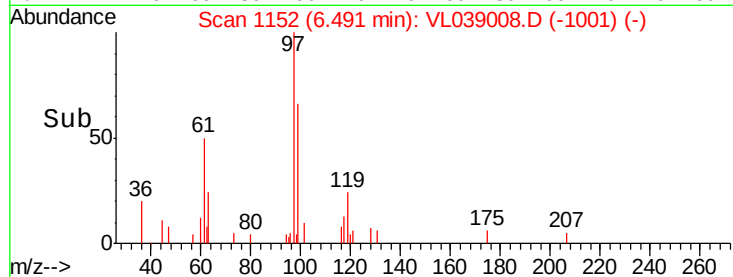
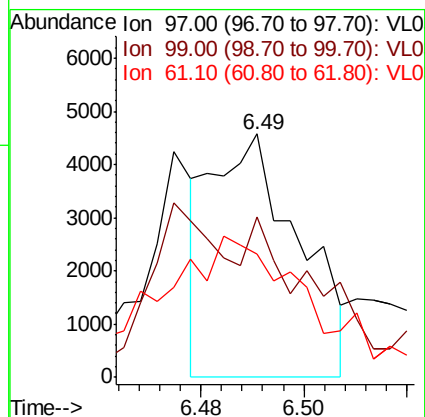
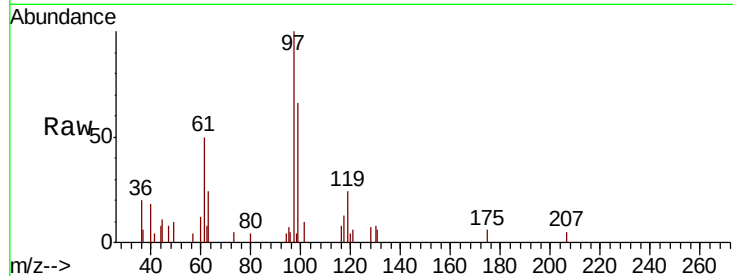
Tgt Ion:	76	Resp:	34072
Ion	Ratio	Lower	Upper
76	100		
44	36.1	15.3	22.9#
78	9.3	8.2	12.2





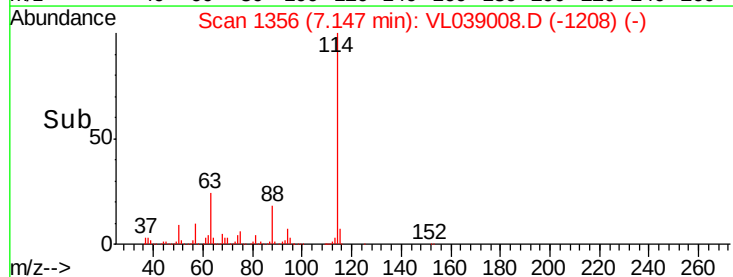
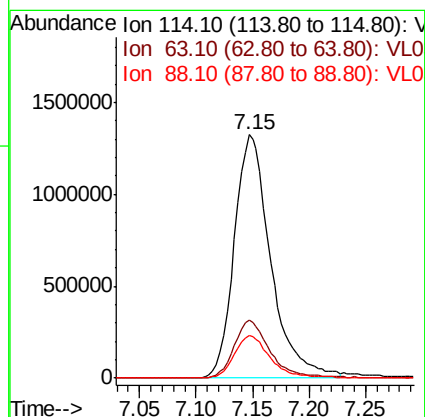
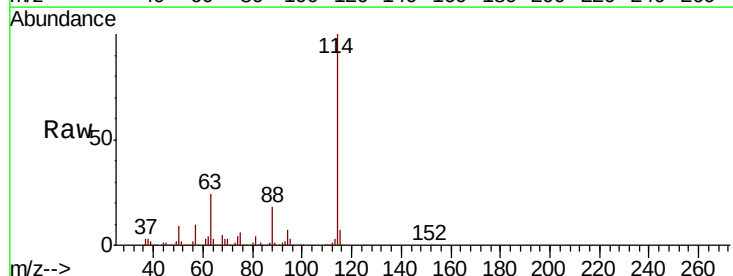
#32
 1,1,1-Trichloroethane
 Concen: 0.031 ppbv
 RT: 6.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV4DL
 Acq: 10 May 2022 4:59

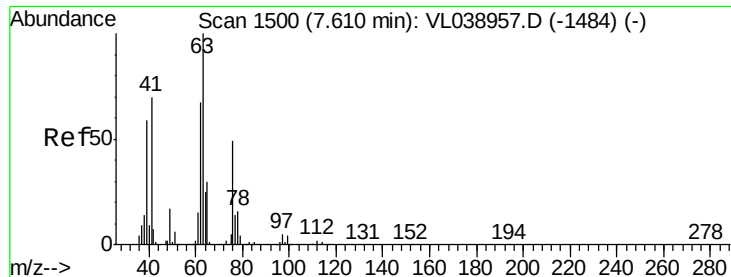
Tot Ion	97	Resp	5423
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.9	77.9#
61	105.2	40.9	61.3#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL039008.D
 Acq: 10 May 2022 4:59

Tgt Ion	114	Resp	2971163
Ion	Ratio	Lower	Upper
114	100		
63	23.8	22.6	33.8
88	17.6	15.4	23.0





#39

1,2-Dichloropropane

Concen: 6.785 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 May 2022 4:59 SV4DL

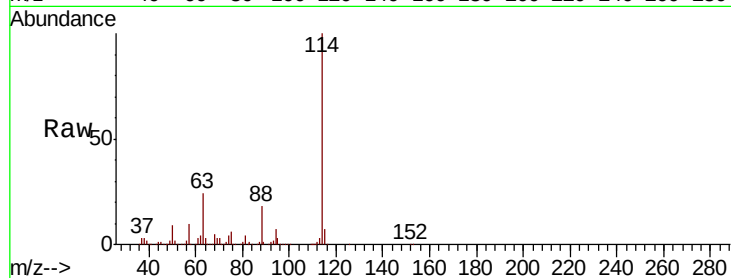
Tot Ion: 63 Resp: 671230

Ion Ratio Lower Upper

63 100

41 0.1 55.9 83.9#

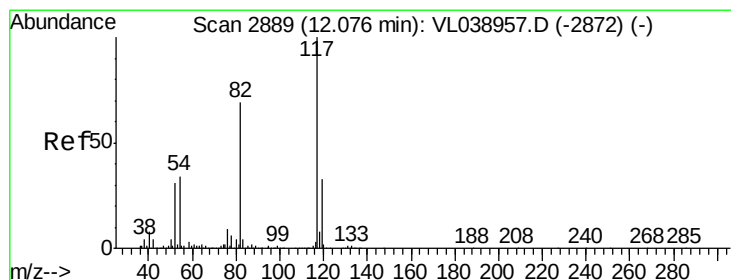
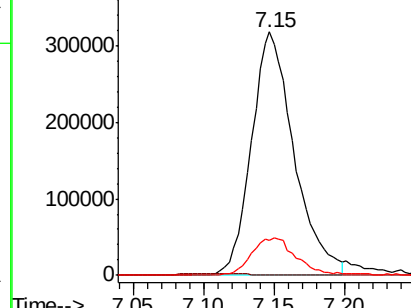
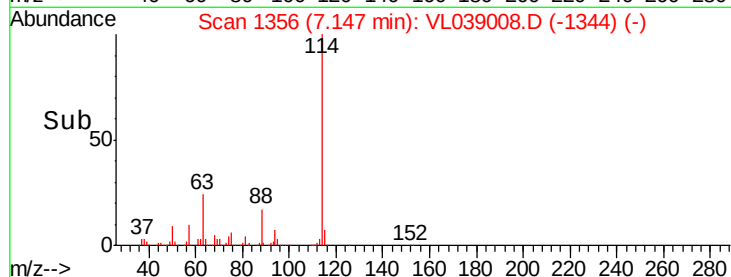
62 14.6 53.8 80.6#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2881

Delta R.T. -0.03 min

Lab File: VL039008.D

Acq: 10 May 2022 4:59

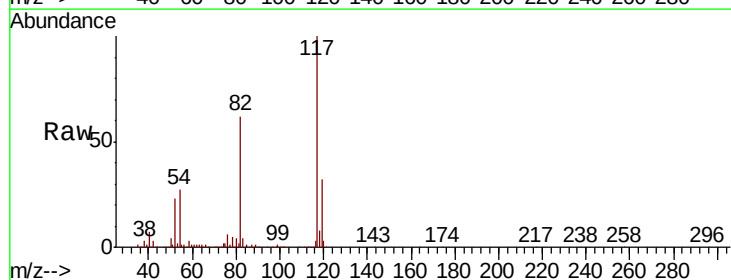
Tgt Ion: 117 Resp: 2573822

Ion Ratio Lower Upper

117 100

82 63.6 57.0 85.6

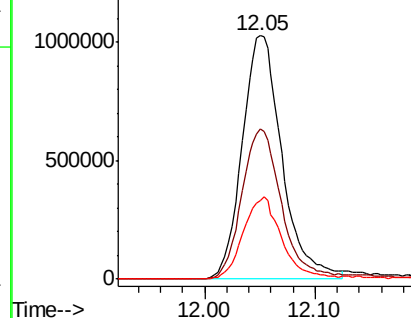
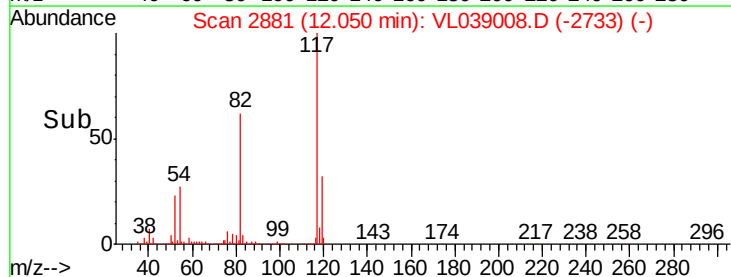
119 34.2 27.2 40.8

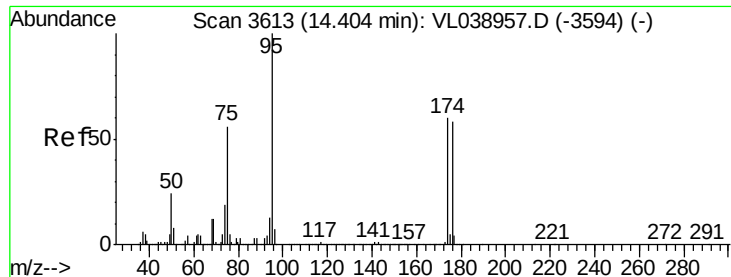


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 8.955 ppbv

RT: 14.38

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV4DL

Acq: 10 May 2022 4:39

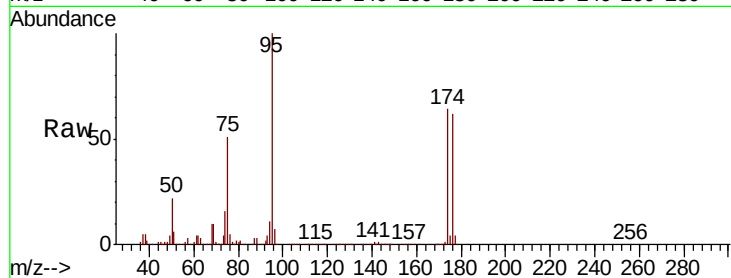
Tot Ion: 95 Resp: 1825425

Ion Ratio Lower Upper

95 100

174 70.1 50.8 76.2

175 4.8 3.8 5.6



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

