

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039213.D
 Acq On : 7 Jun 2022 17:33
 Operator : SY/AP
 Sample : N3199-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 04:59:55 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	854206	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1992726	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1663269	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1378126	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

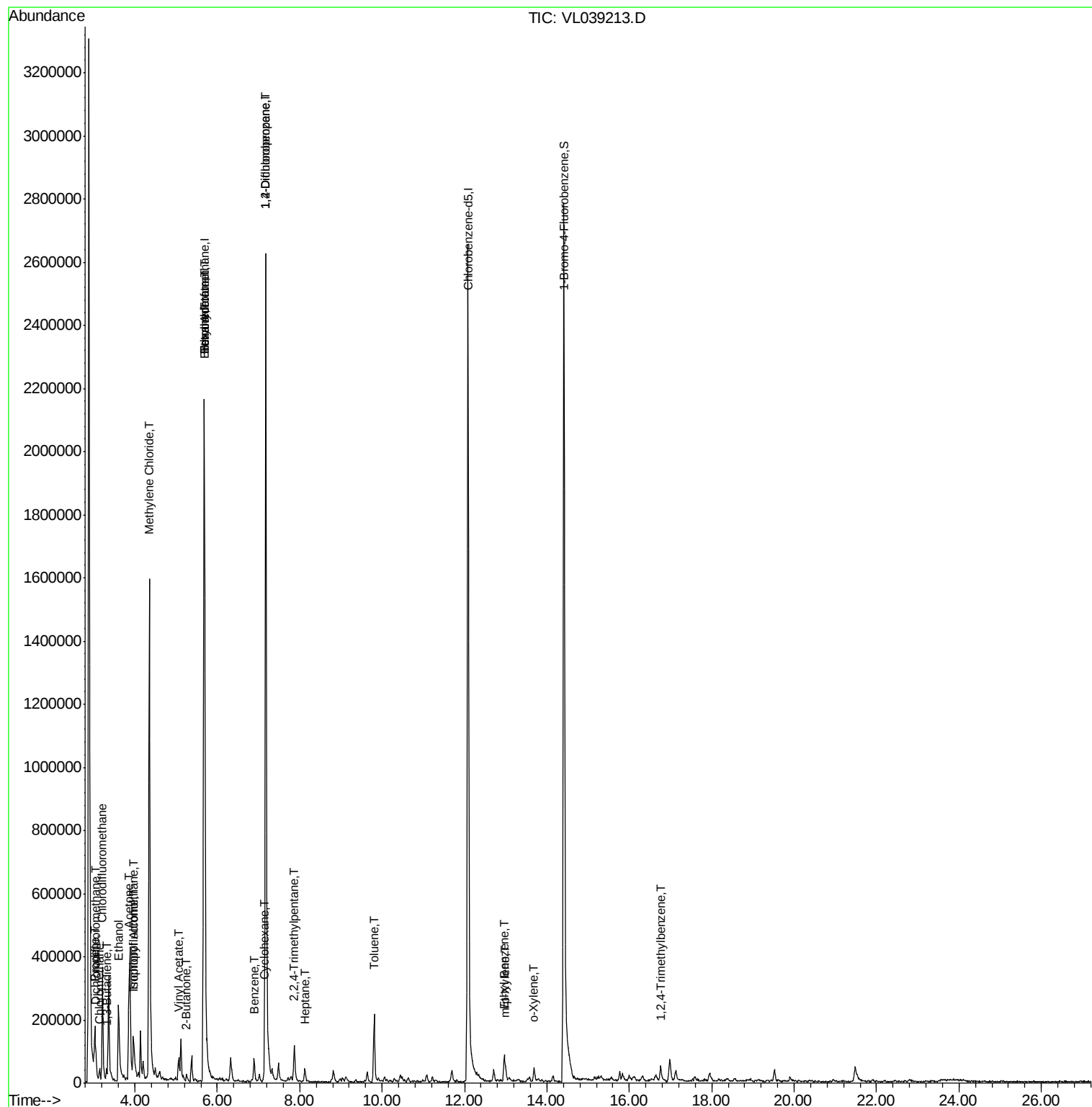
Target Compounds

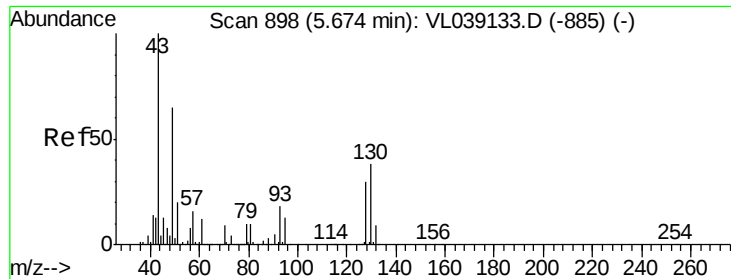
					Ovalue
2) Dichlorodifluoromethane	3.05	85	48331	0.322	ppbv 95
3) Chlorodifluoromethane	3.21	51	3906	0.036	ppbv 98
4) Chloromethane	3.14	50	20287	0.363	ppbv 99
9) Propene	3.02	41	50840	1.073	ppbv 85
10) Heptane	8.12	43	4121	0.037	ppbv # 1
11) Trichlorofluoromethane	3.95	101	36212	0.267	ppbv 86
13) Ethanol	3.60	45	338443	130.949	ppbv # 100
15) Acetone	3.85	43	522735	5.875	ppbv 90
16) 1,3-Butadiene	3.33	39	3825	0.080	ppbv # 21
19) Isopropyl Alcohol	3.97	45	139399	3.340	ppbv # 93
20) Methylene Chloride	4.35	84	709740	18.927	ppbv 94
23) Vinyl Acetate	5.07	43	17060	0.232	ppbv # 1
25) Ethyl Acetate	5.69	43	436924	2.179	ppbv # 77
26) Hexane	5.69	57	632375	7.175	ppbv # 38
30) Cyclohexane	7.14	84	3686	0.050	ppbv # 1
34) 2-Butanone	5.25	43	21663	0.200	ppbv # 76
36) Benzene	6.89	78	27282	0.169	ppbv 95
39) 1,2-Dichloropropane	7.18	63	557919	8.670	ppbv # 24
41) Tetrahydrofuran	5.69	42	227203	3.489	ppbv # 49
44) 2,2,4-Trimethylpentane	7.87	57	92412	0.327	ppbv # 80
53) Toluene	9.81	91	134753	0.723	ppbv 99
58) Ethyl Benzene	12.97	91	38359	0.167	ppbv 96
59) m/p-Xylene	13.00	91	22326	0.111	ppbv # 33
60) o-Xylene	13.69	91	19068	0.101	ppbv # 47
74) 1,2,4-Trimethylbenzene	16.76	105	21057	0.094	ppbv # 58

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

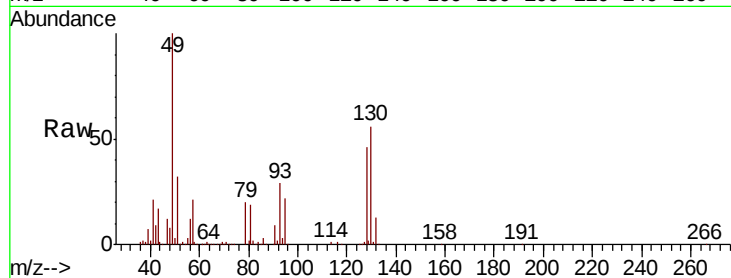
Tot Ion: 49 Resp: 854206

Ion Ratio Lower Upper

49 100

128 48.4 24.7 74.1

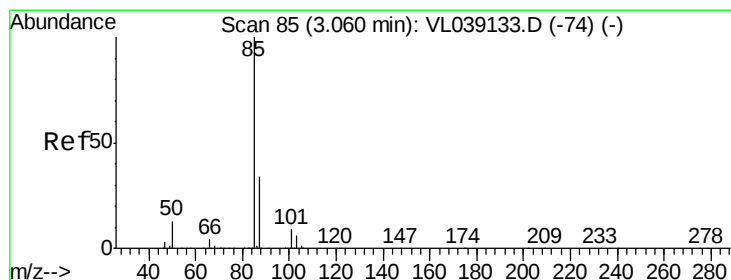
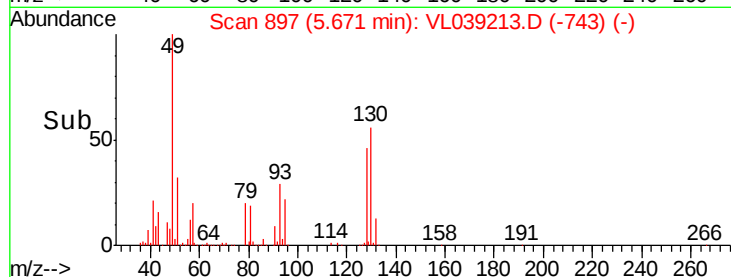
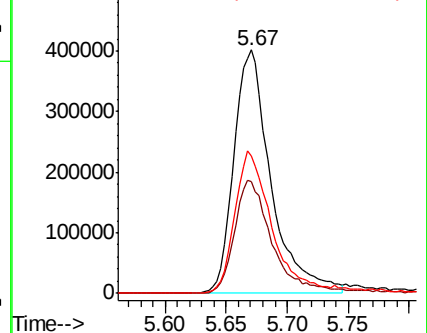
130 60.7 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.322 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL039213.D

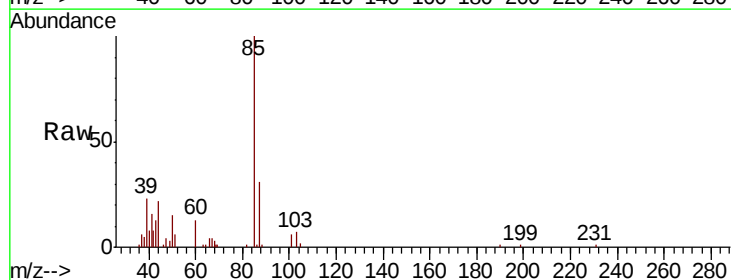
Acq: 7 Jun 2022 17:33

Tgt Ion: 85 Resp: 48331

Ion Ratio Lower Upper

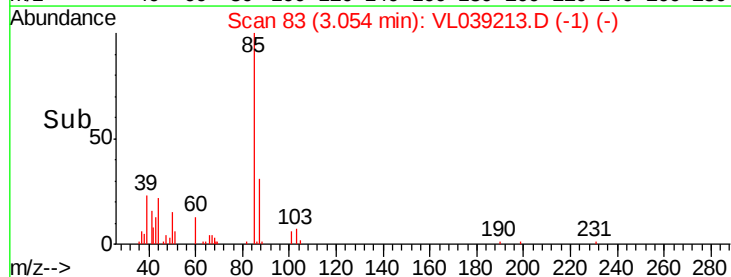
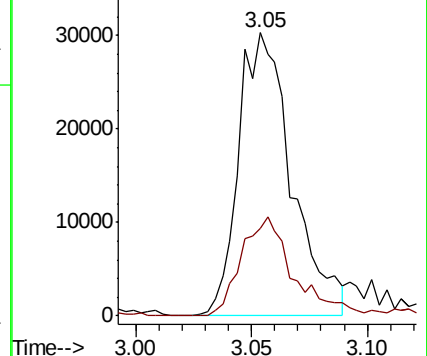
85 100

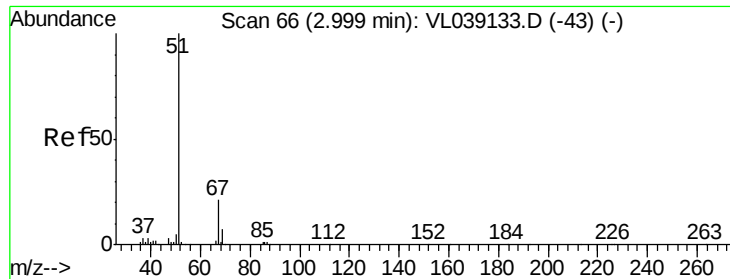
87 30.7 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

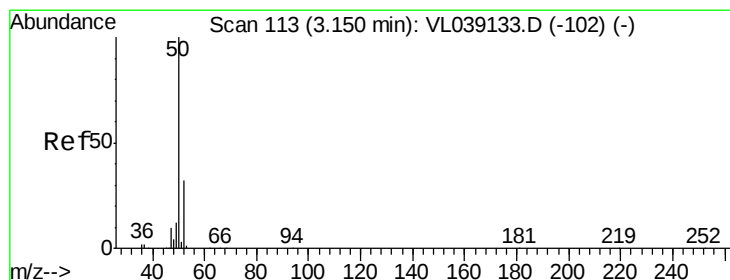
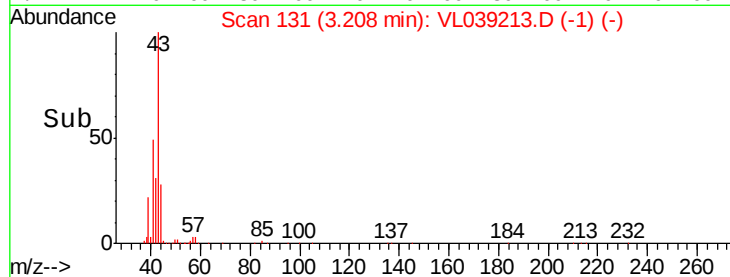
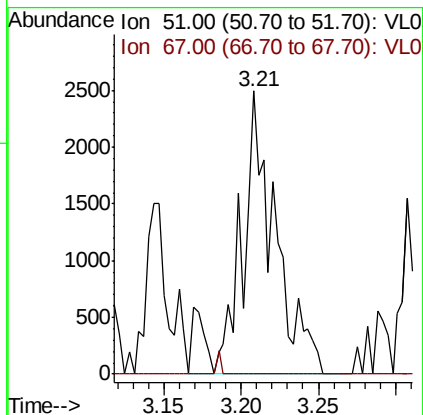
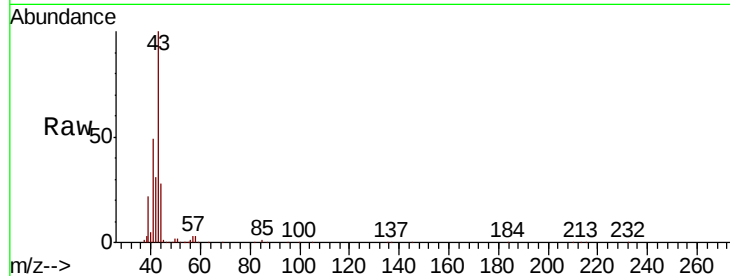
Ion 87.00 (86.70 to 87.70): VL0





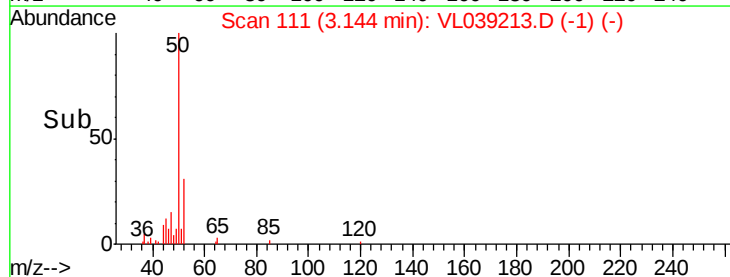
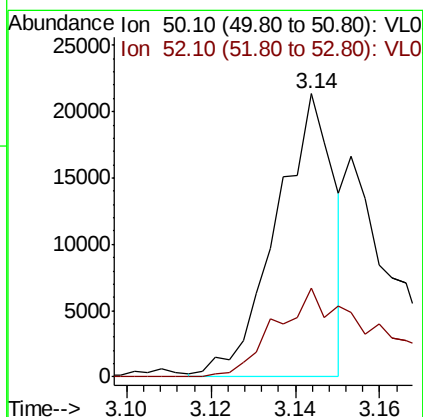
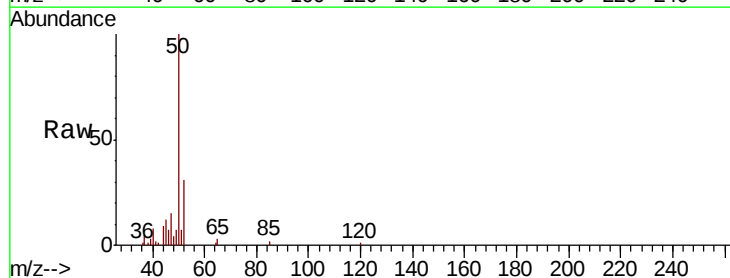
#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 3.21 min Scan# 131
Delta R.T. 0.21 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

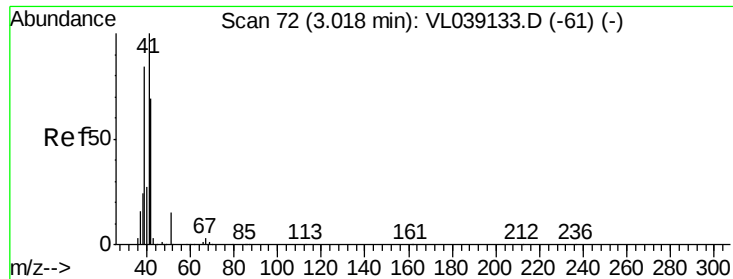
Tot Ion: 51 Resp: 3906
Ion Ratio Lower Upper
51 100
67 21.1 16.2 24.4



#4
Chloromethane
Concen: 0.363 ppbv
RT: 3.14 min Scan# 111
Delta R.T. -0.01 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

Tgt Ion: 50 Resp: 20287
Ion Ratio Lower Upper
50 100
52 31.7 25.9 38.9





#9

Propene

Concen: 1.073 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039213.D

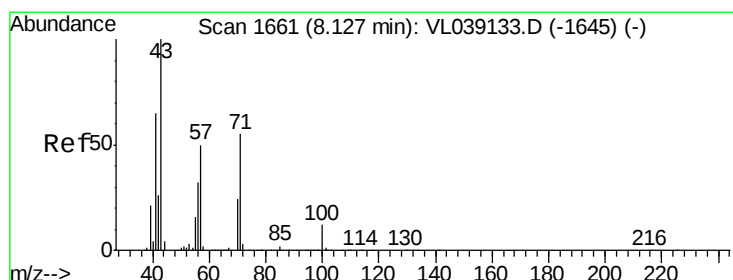
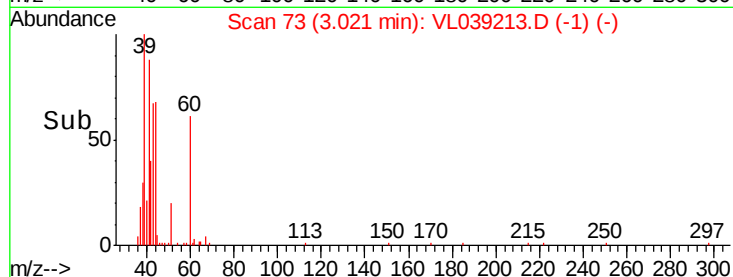
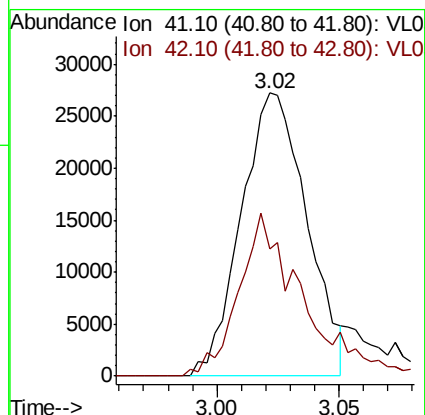
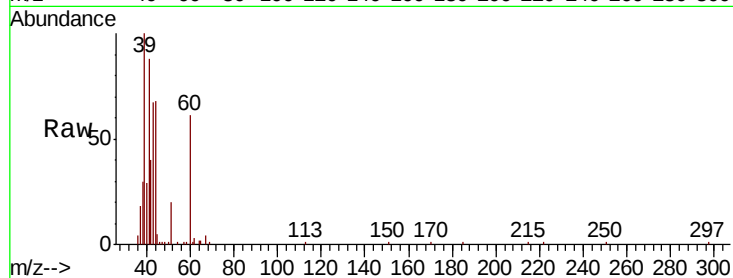
Acq: 7 Jun 2022 17:33

Tot Ion: 41 Resp: 50840

Ion Ratio Lower Upper

41 100

42 57.2 55.4 83.2



#10

Heptane

Concen: 0.037 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL039213.D

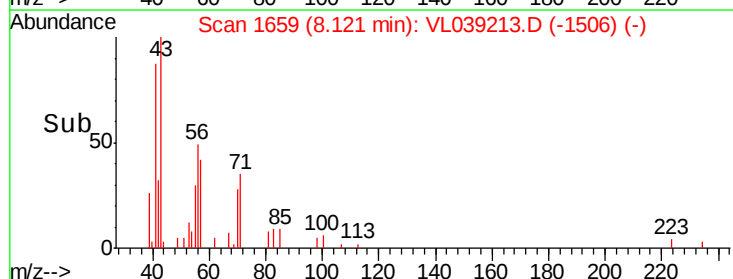
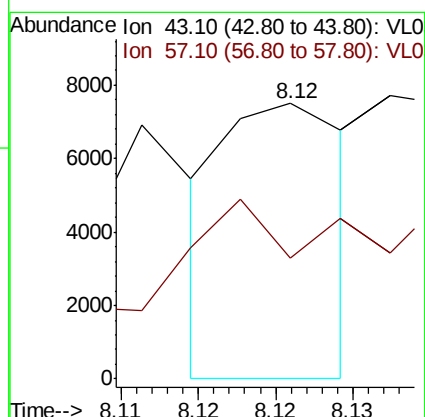
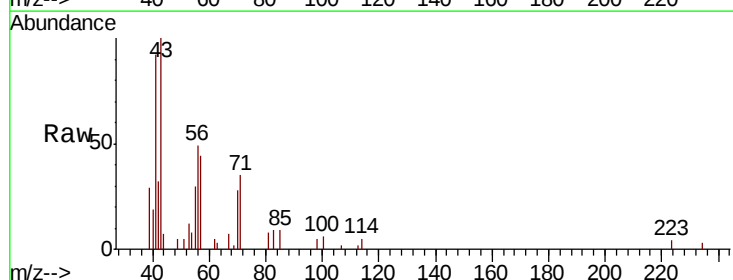
Acq: 7 Jun 2022 17:33

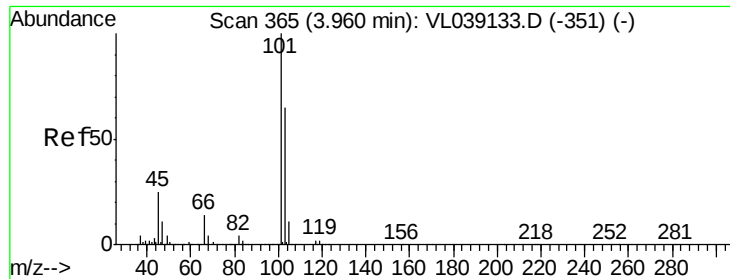
Tgt Ion: 43 Resp: 4121

Ion Ratio Lower Upper

43 100

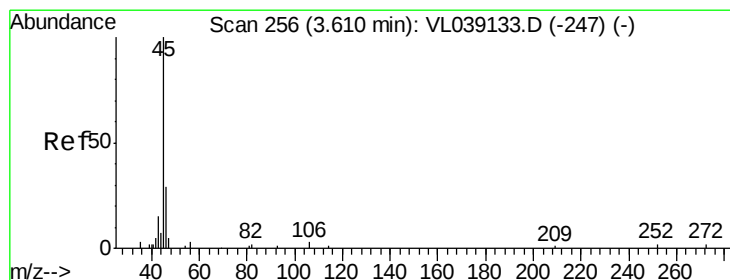
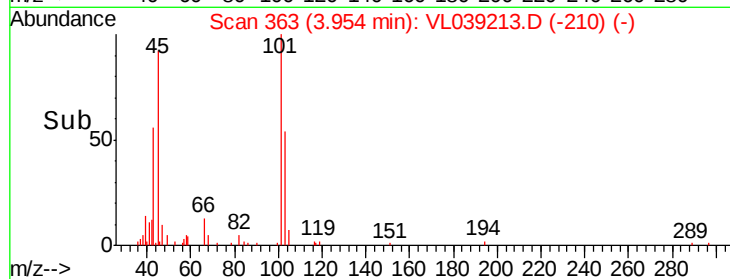
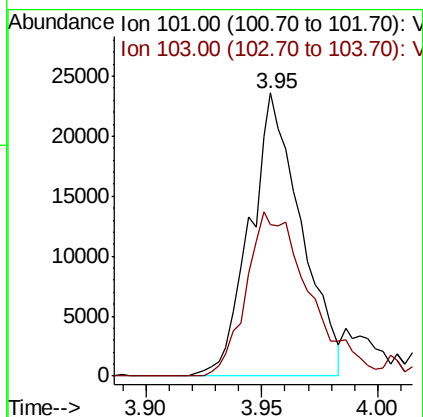
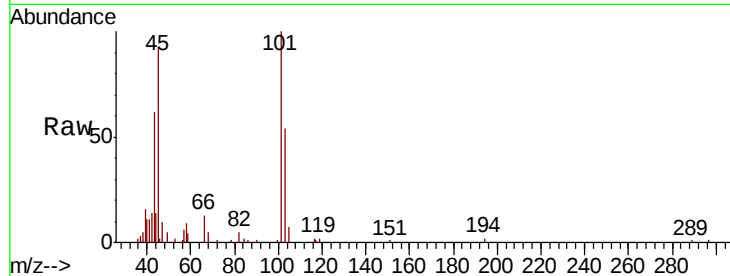
57 229.0 41.4 62.2#





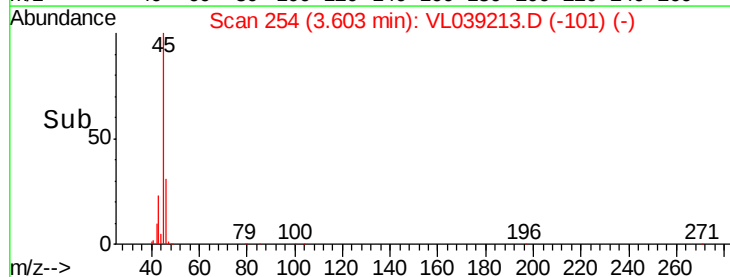
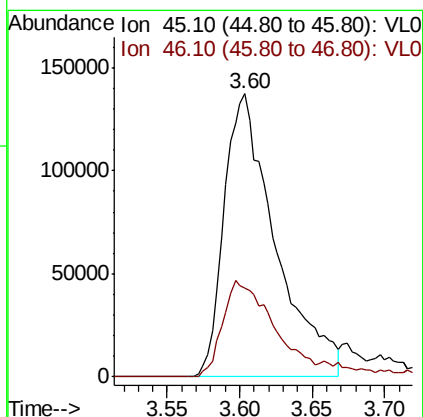
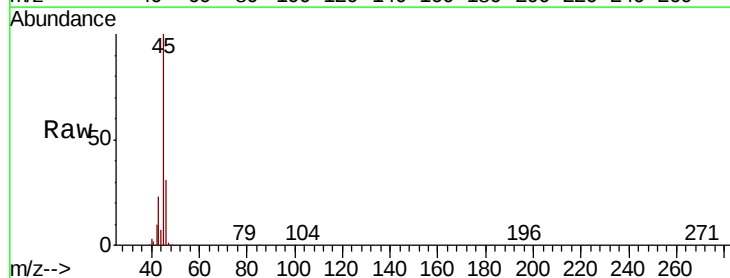
#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VL039213.D
 Acq: 7 Jun 2022 17:33

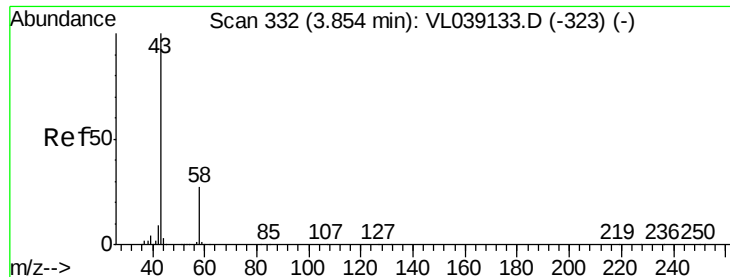
Tot Ion:101 Resp: 36212
 Ion Ratio Lower Upper
 101 100
 103 53.8 51.7 77.5



#13
 Ethanol
 Concen: 130.949 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL039213.D
 Acq: 7 Jun 2022 17:33

Tgt Ion: 45 Resp: 338443
 Ion Ratio Lower Upper
 45 100
 46 39.7 0.0 0.0#





#15

Acetone

Concen: 5.875 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL039213.D

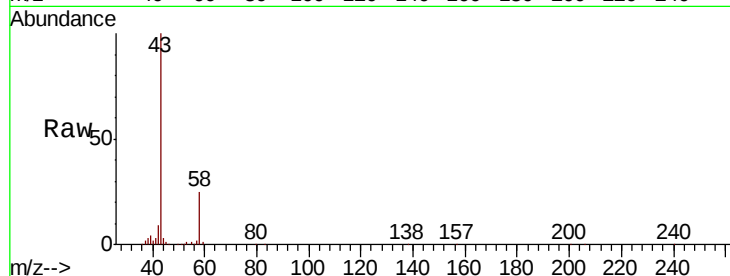
Acq: 7 Jun 2022 17:33

Tot Ion: 43 Resp: 522735

Ion Ratio Lower Upper

43 100

58 23.1 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

250000

200000

150000

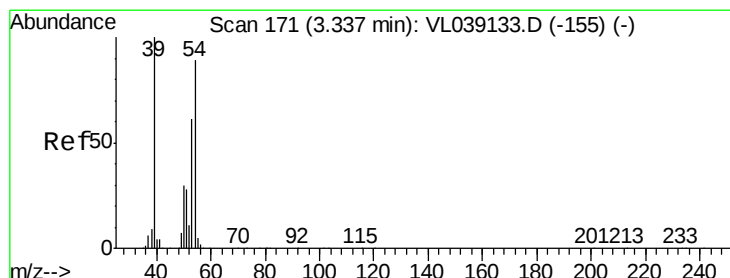
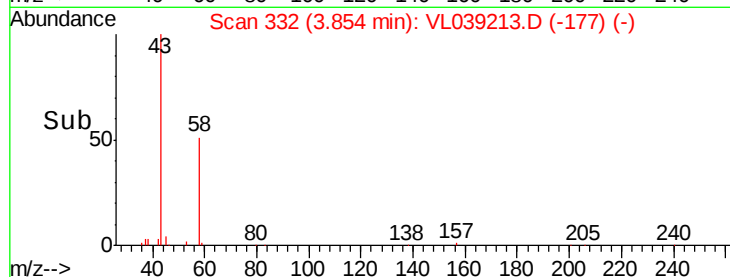
100000

50000

0

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 0.080 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.01 min

Lab File: VL039213.D

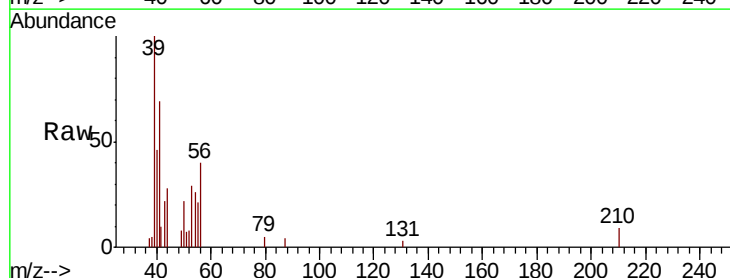
Acq: 7 Jun 2022 17:33

Tgt Ion: 39 Resp: 3825

Ion Ratio Lower Upper

39 100

54 152.9 65.8 98.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

8000

6000

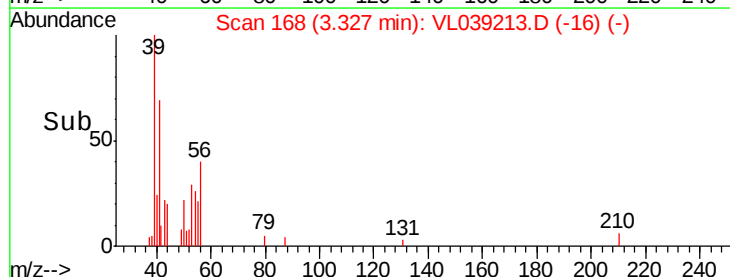
4000

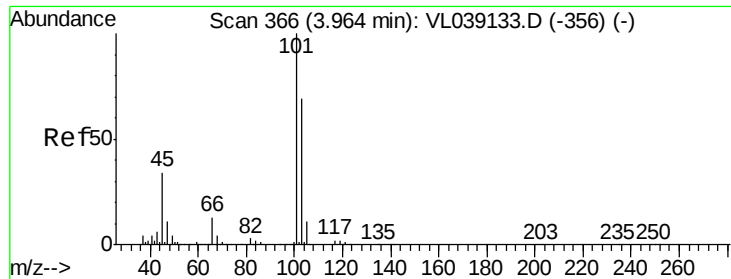
2000

0

3.32 3.33 3.33 3.34 3.34

Time-->





#19

Isopropyl Alcohol

Concen: 3.340 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL039213.D

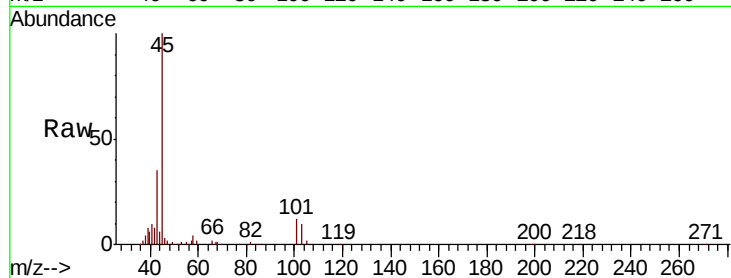
Acq: 7 Jun 2022 17:33

Tot Ion: 45 Resp: 139399

Ion Ratio Lower Upper

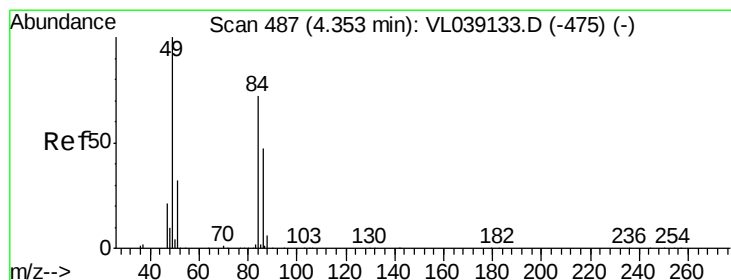
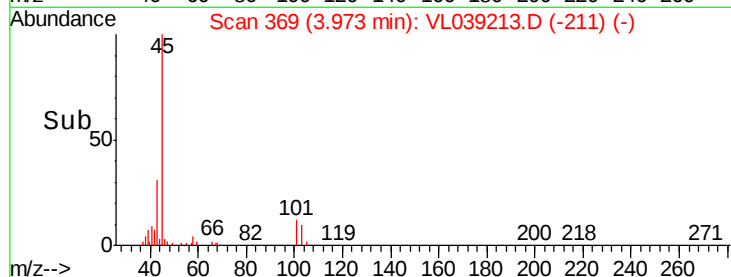
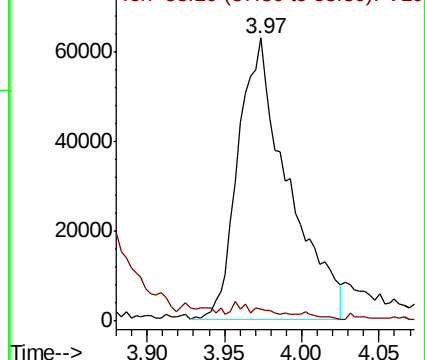
45 100

58 4.8 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 18.927 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

Tgt Ion: 84 Resp: 709740

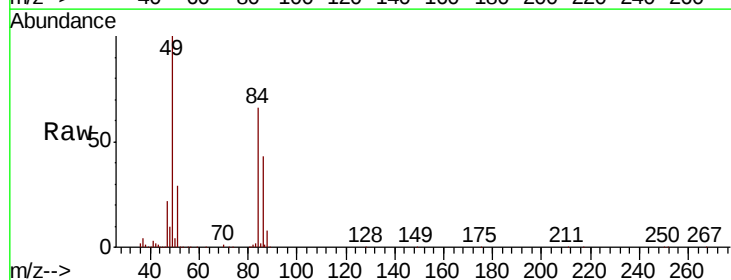
Ion Ratio Lower Upper

84 100

49 151.8 111.1 166.7

51 44.1 35.3 52.9

86 65.1 51.9 77.9

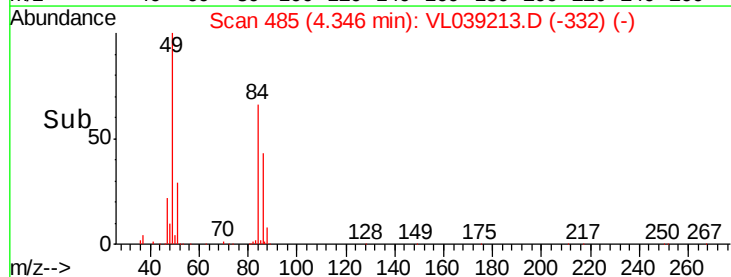
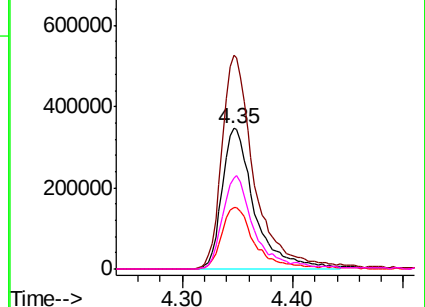


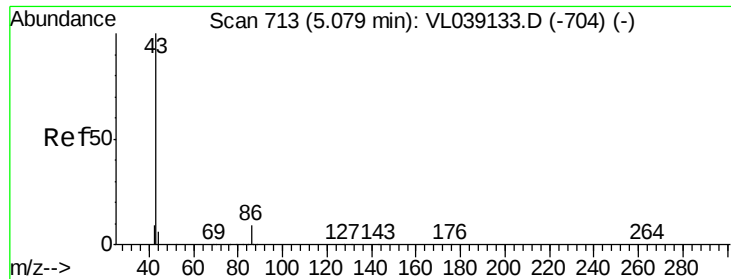
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.232 ppbv

RT: 5.07 min Scan# 709

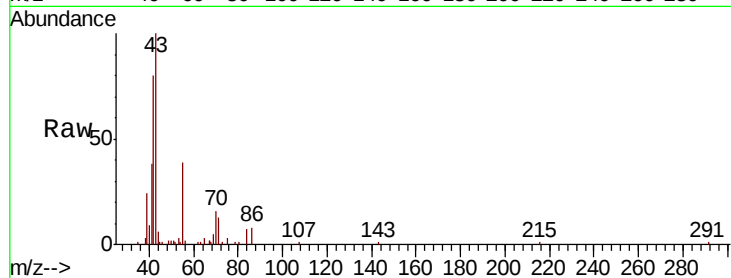
Delta R.T. -0.01 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

Tot Ion: 43 Resp: 17060

Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.0	9.0#
42	110.3	8.2	12.4#
44	0.0	4.3	6.5#

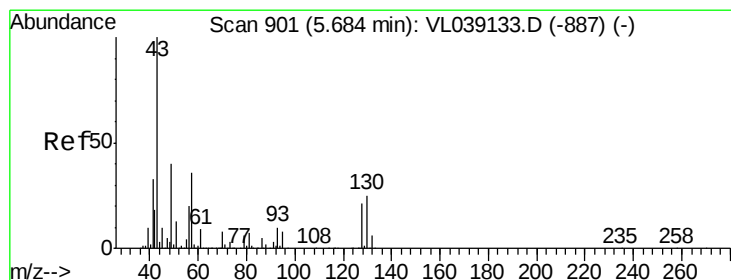
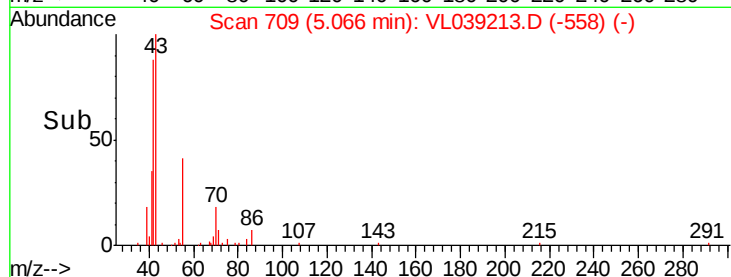
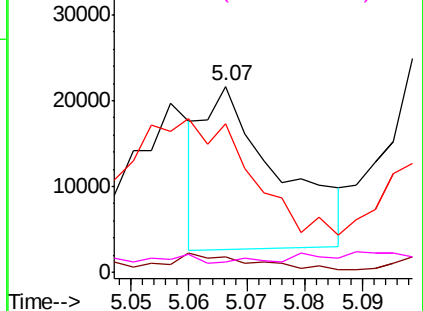


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 2.179 ppbv

RT: 5.69 min Scan# 903

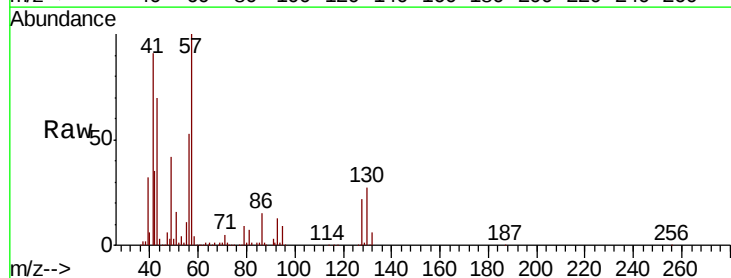
Delta R.T. 0.01 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

Tgt Ion: 43 Resp: 436924

Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.2	12.2#
61	0.6	8.4	12.6#
70	1.8	5.6	8.4#

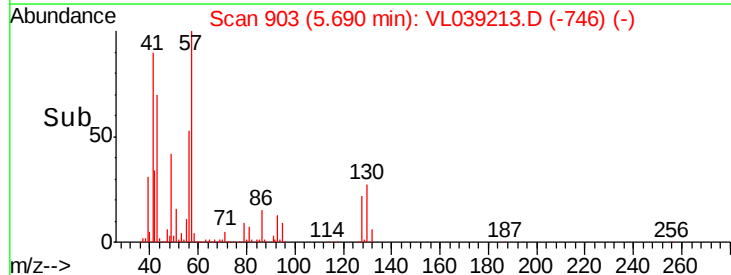
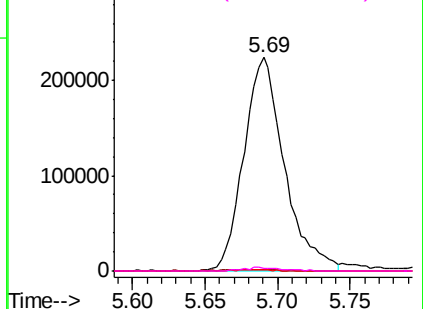


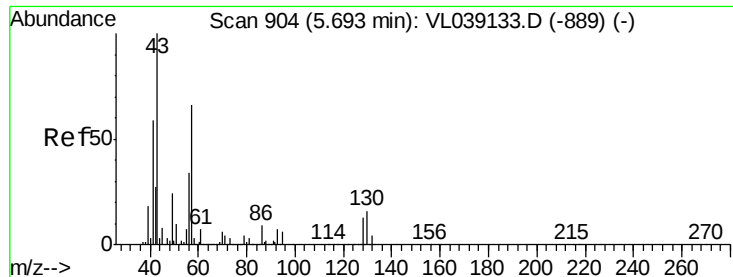
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

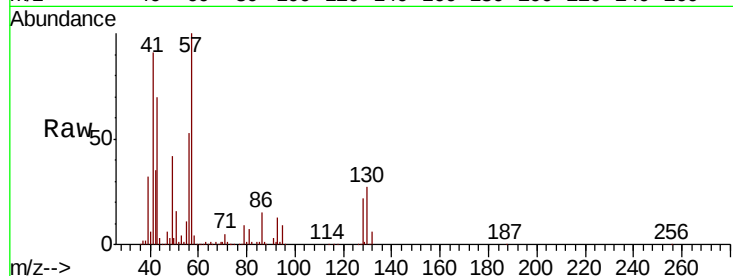
Ion 70.10 (69.80 to 70.80): VL0



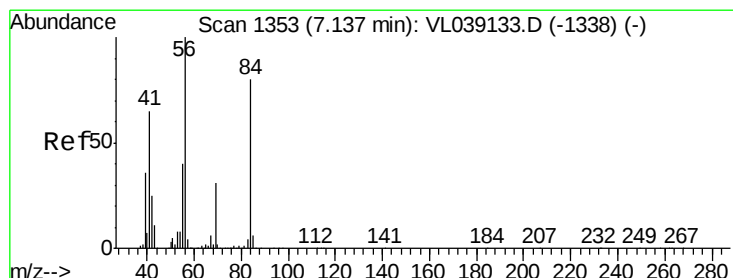
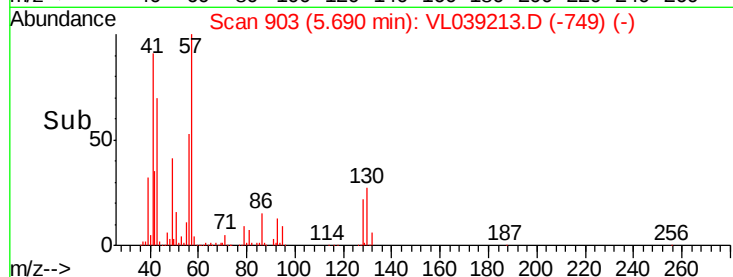
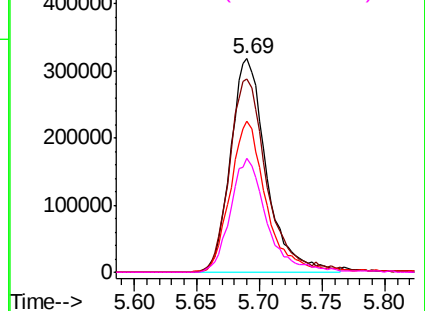


#26
Hexane
Concen: 7.175 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

Tot Ion	Ratio	Lower	Upper
57	100		
41	96.7	72.4	108.6
43	72.1	187.0	280.6#
56	54.6	41.8	62.6

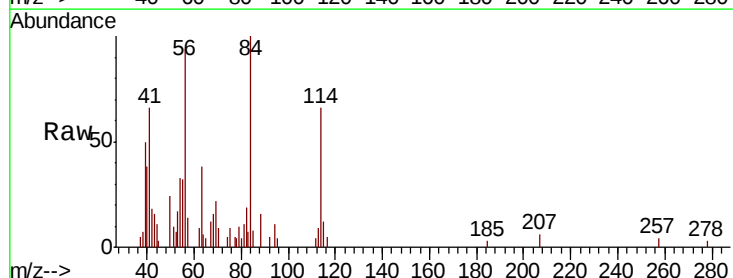


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

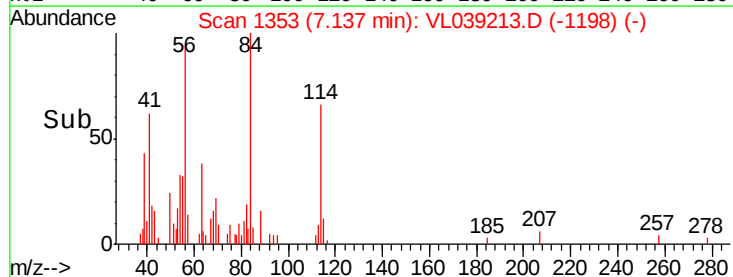
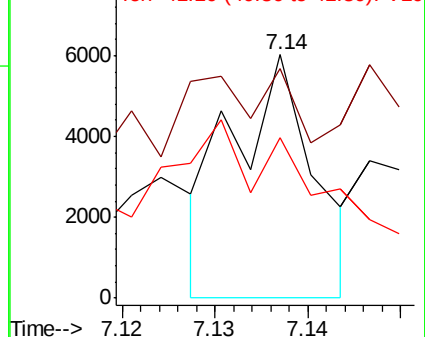


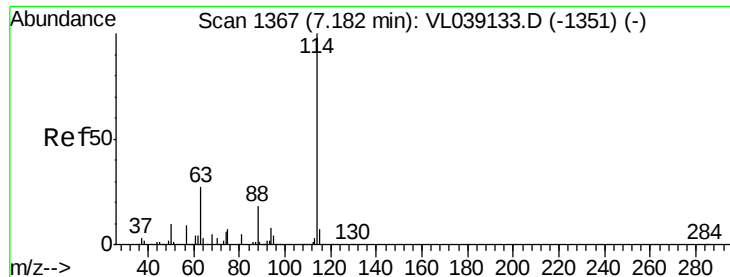
#30
Cyclohexane
Concen: 0.050 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	267.9	68.9	103.3#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

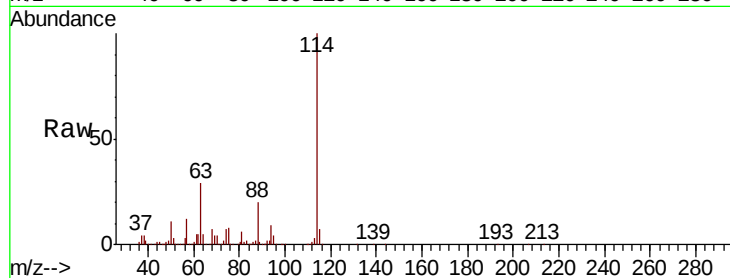
Tot Ion:114 Resp: 1992726

Ion Ratio Lower Upper

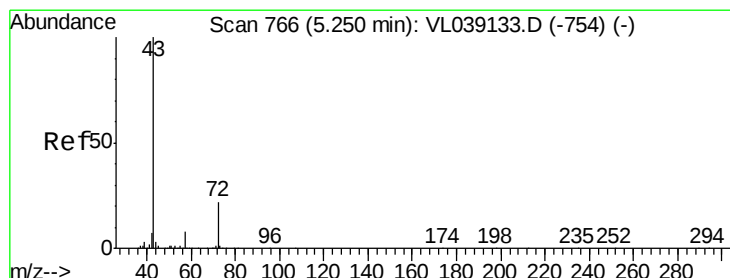
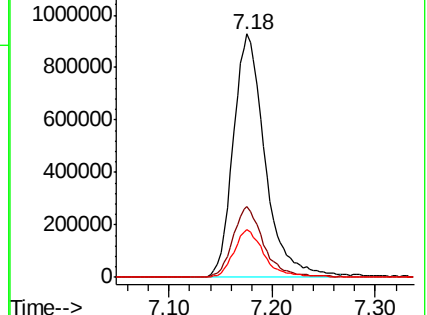
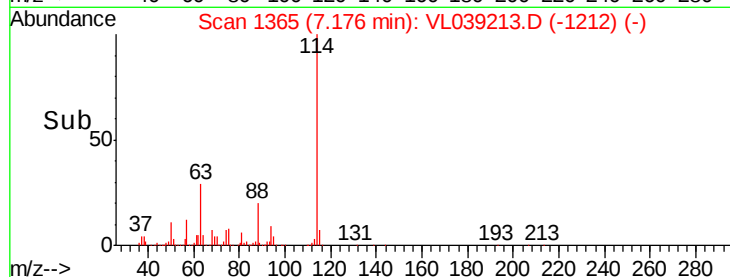
114 100

63 28.8 21.7 32.5

88 19.1 14.8 22.2



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: 0.200 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL039213.D

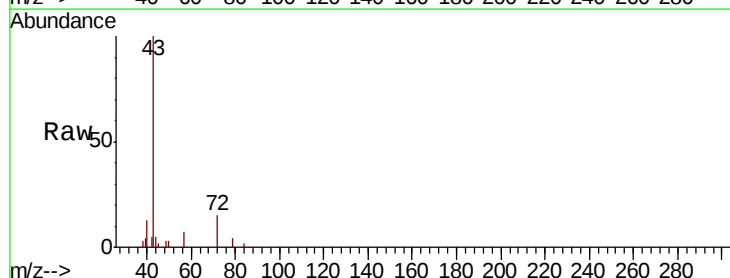
Acq: 7 Jun 2022 17:33

Tgt Ion: 43 Resp: 21663

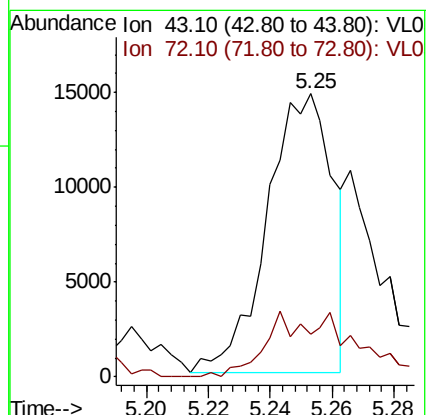
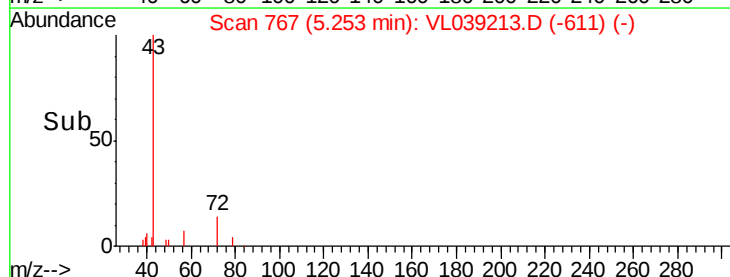
Ion Ratio Lower Upper

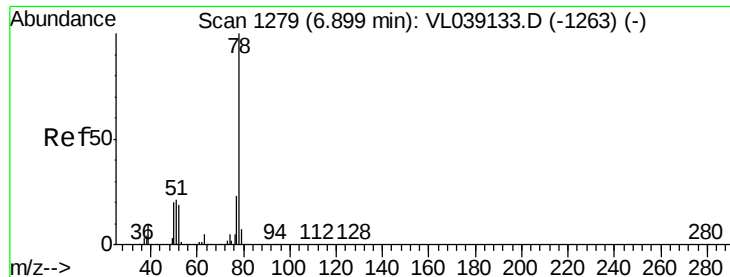
43 100

72 34.2 18.2 27.2#



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





#36

Benzene

Concen: 0.169 ppbv

RT: 6.89 min Scan# 1275

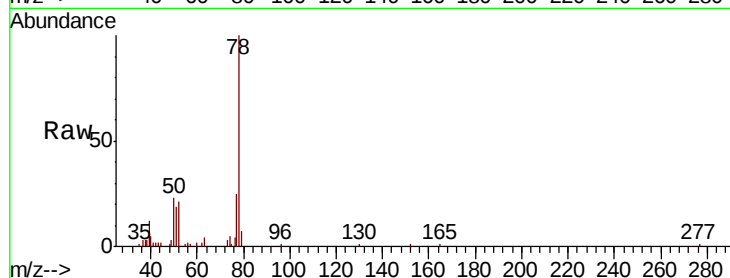
Delta R.T. -0.01 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

Tot Ion: 78 Resp: 27282

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.6	27.8
50	23.4	15.8	23.8

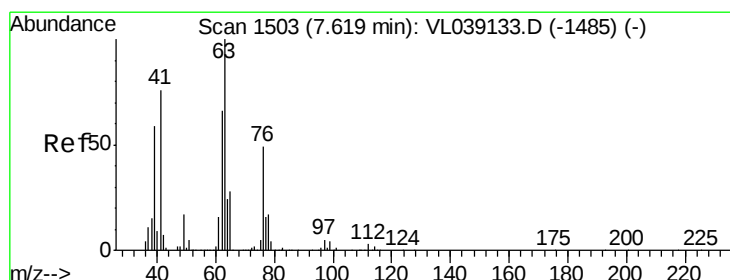
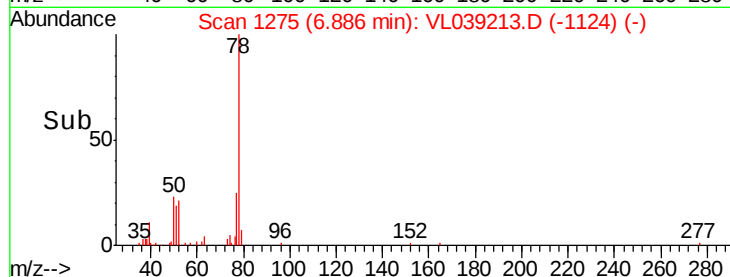
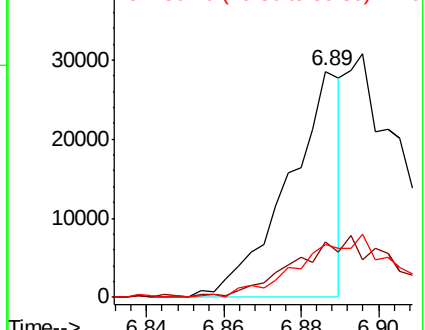


Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.670 ppbv

RT: 7.18 min Scan# 1365

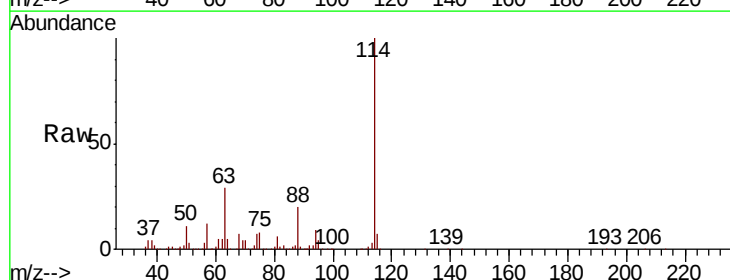
Delta R.T. -0.44 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

Tgt Ion: 63 Resp: 557919

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.9	52.9	79.3#

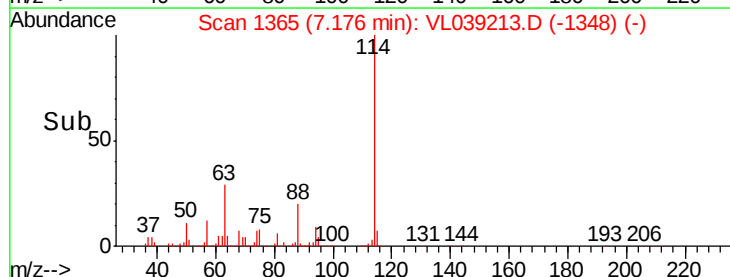
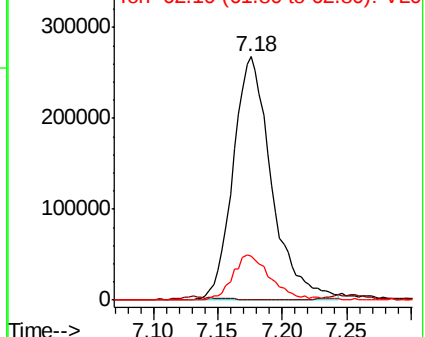


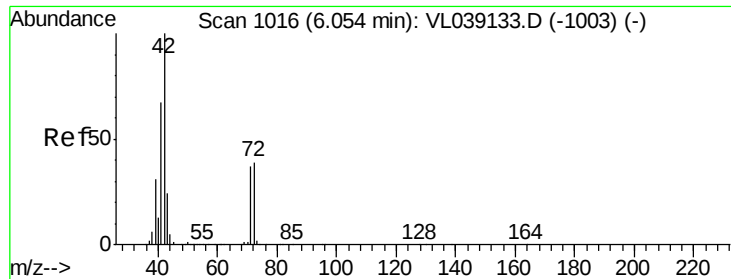
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

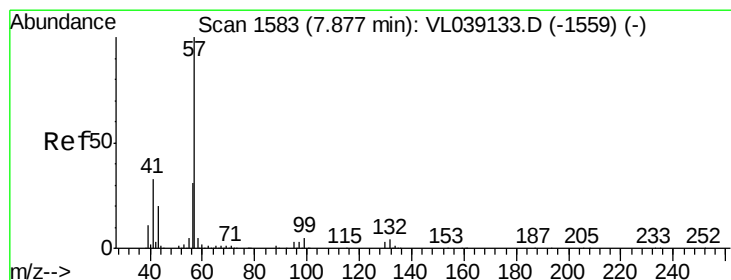
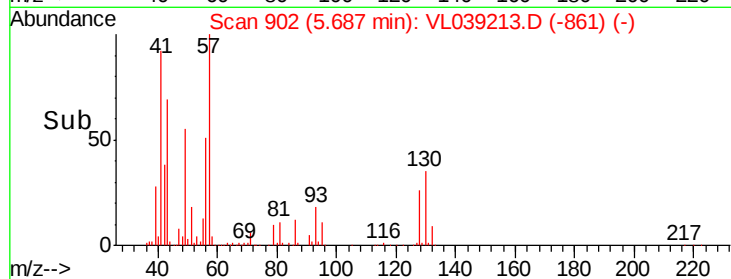
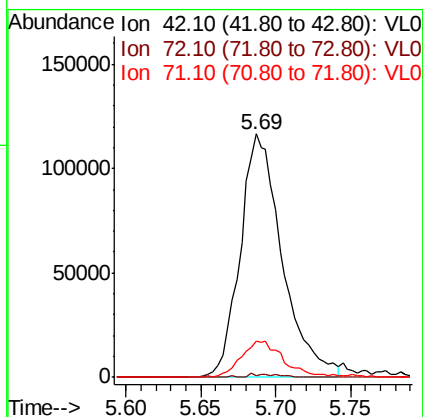
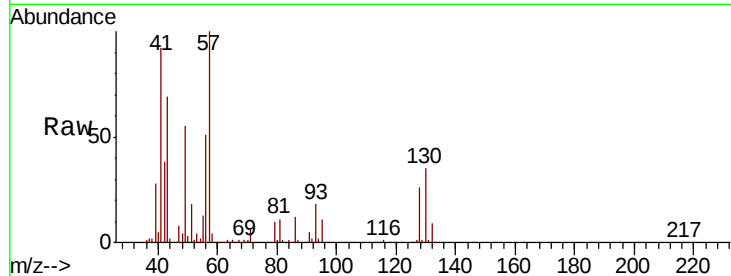
Ion 62.10 (61.80 to 62.80): VL0





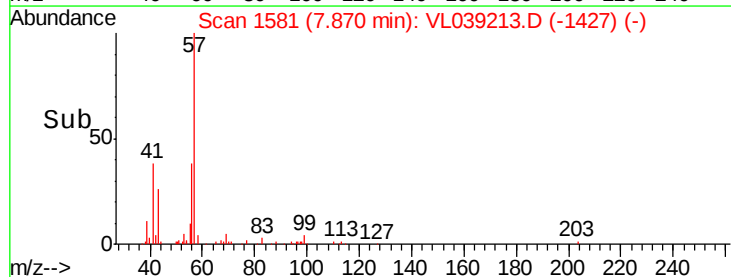
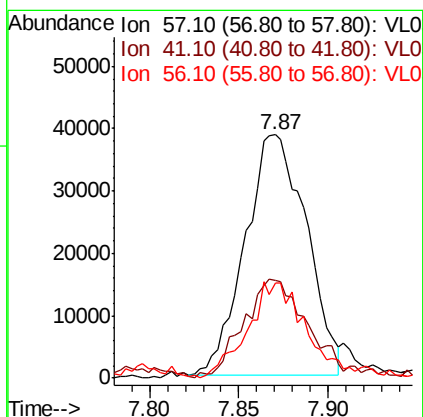
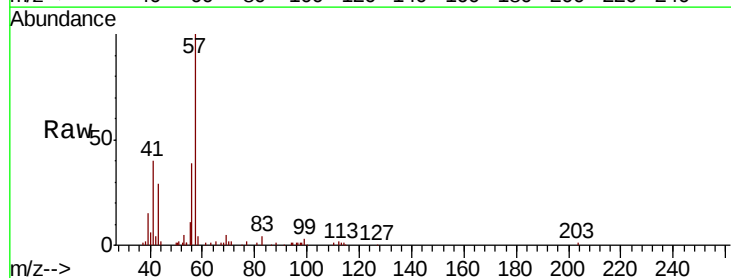
#41
Tetrahydrofuran
Concen: 3.489 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.37 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

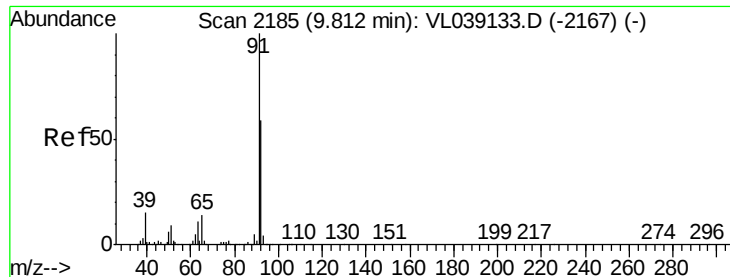
Tot Ion	Ratio	Lower	Upper
42	100		
72	1.2	32.0	48.0#
71	15.9	31.1	46.7#



#44
2,2,4-Trimethylpentane
Concen: 0.327 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.01 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	45.4	26.2	39.4#
56	40.5	24.7	37.1#





#53

Toluene

Concen: 0.723 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL039213.D

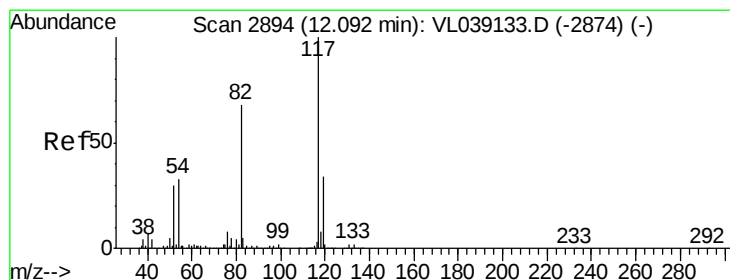
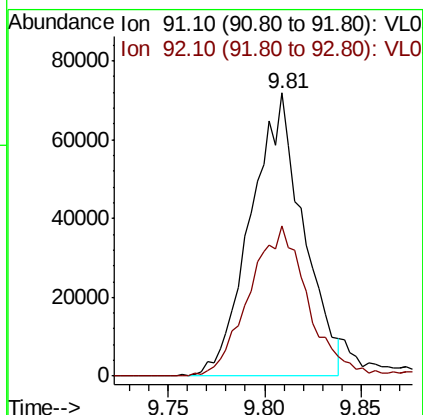
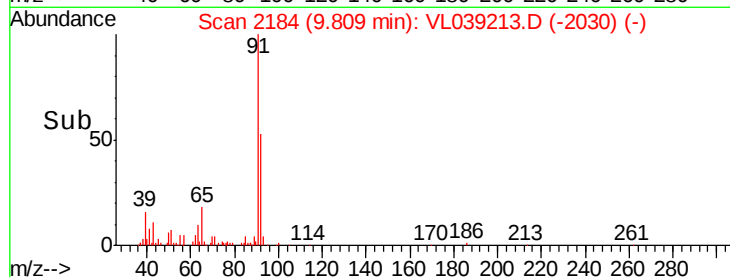
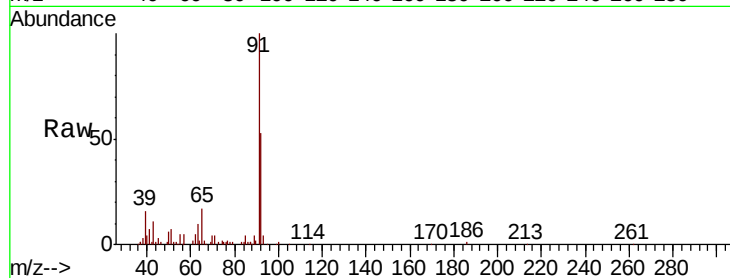
Acq: 7 Jun 2022 17:33

Tot Ion: 91 Resp: 134753

Ion Ratio Lower Upper

91 100

92 60.8 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

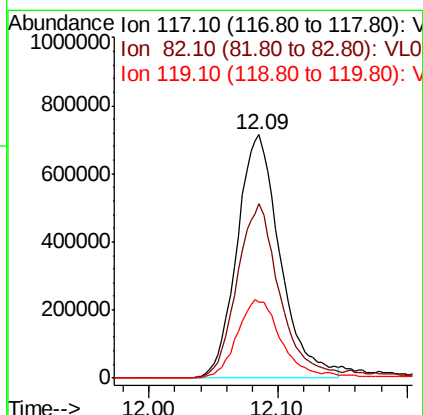
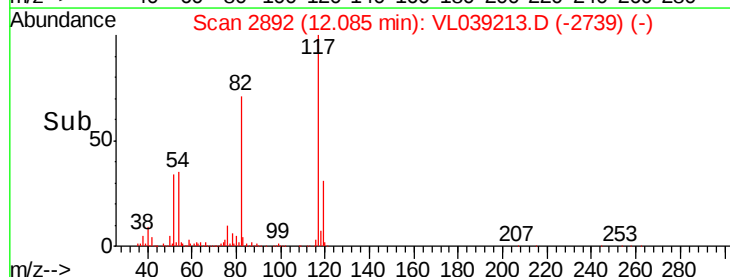
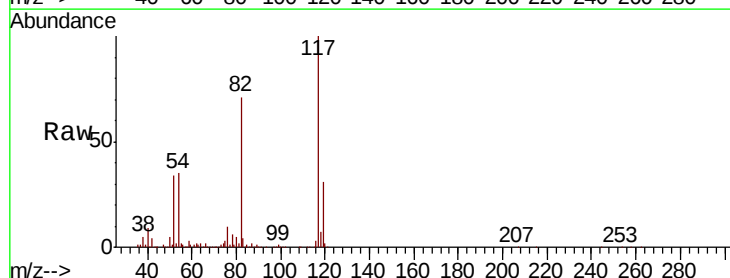
Tgt Ion: 117 Resp: 1663269

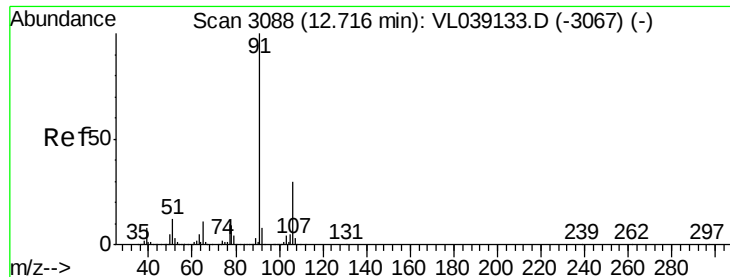
Ion Ratio Lower Upper

117 100

82 74.4 55.1 82.7

119 34.8 24.7 37.1





#58

Ethyl Benzene

Concen: 0.167 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. 0.25 min

Lab File: VL039213.D

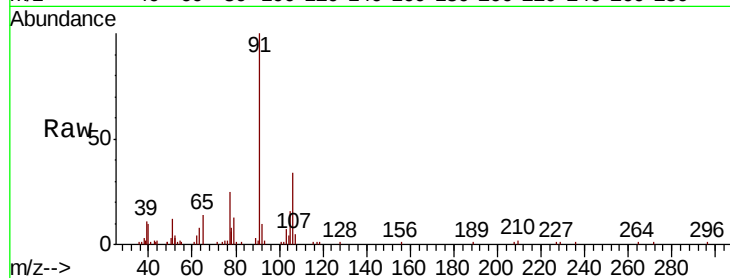
Acq: 7 Jun 2022 17:33

Tot Ion: 91 Resp: 38359

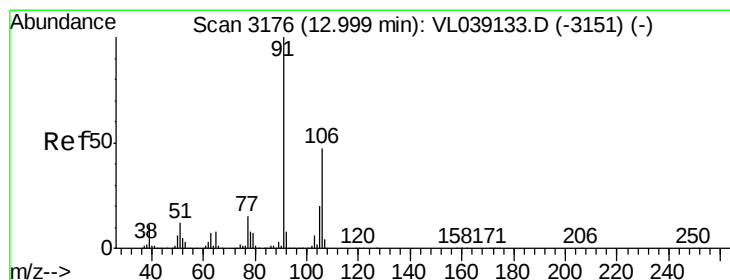
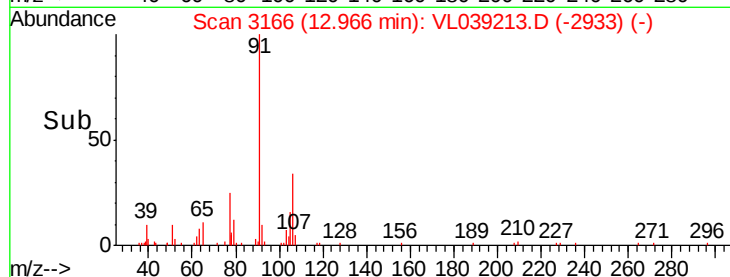
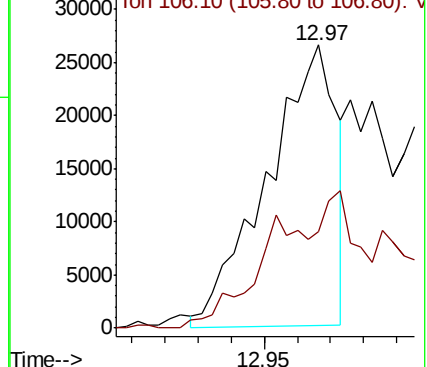
Ion Ratio Lower Upper

91 100

106 32.7 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0



#59

m/p-Xylene

Concen: 0.111 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL039213.D

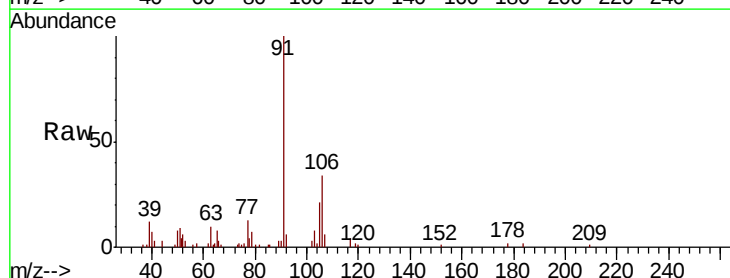
Acq: 7 Jun 2022 17:33

Tgt Ion: 91 Resp: 22326

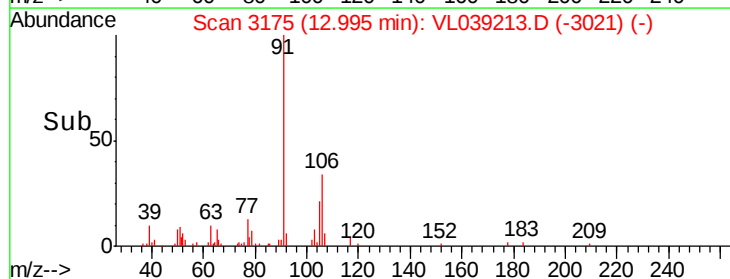
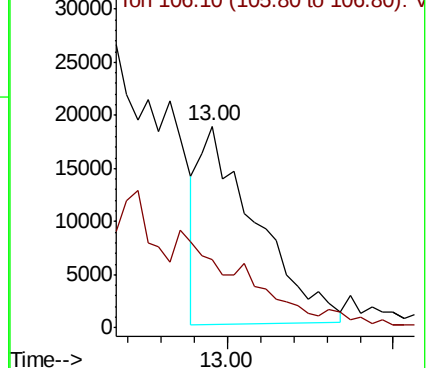
Ion Ratio Lower Upper

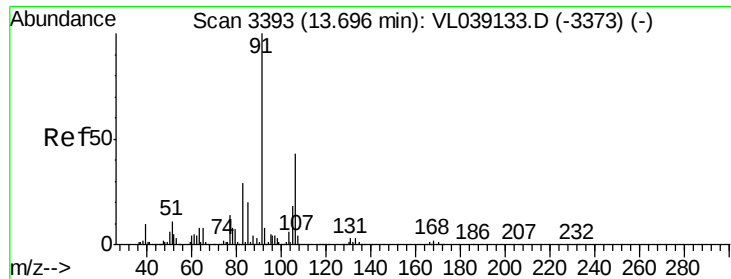
91 100

106 0.0 34.3 51.5#



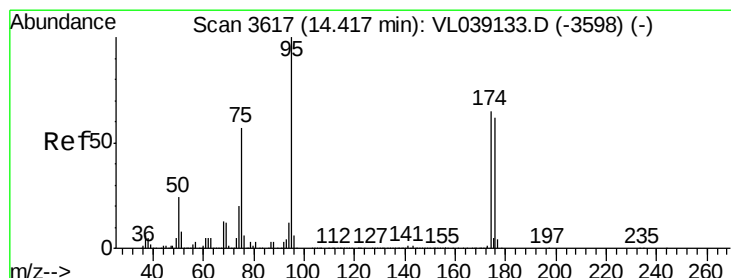
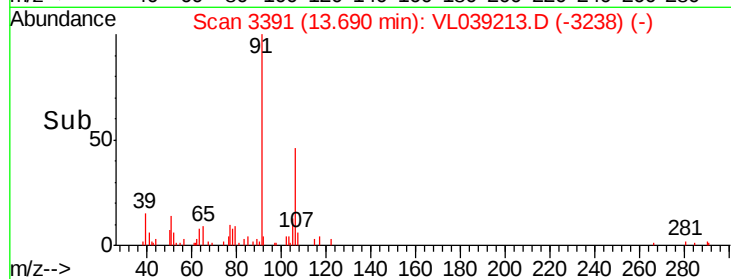
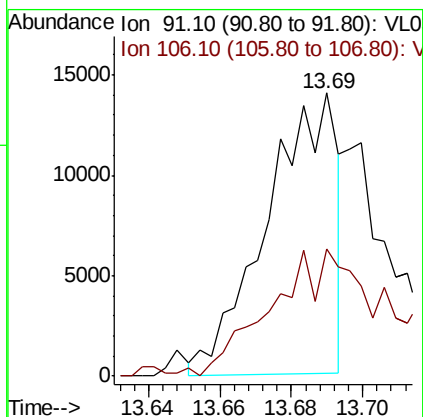
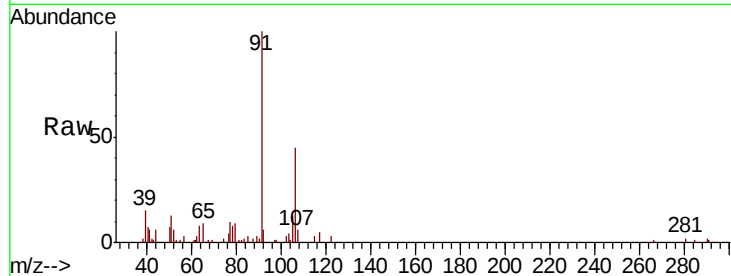
Abundance Ion 91.10 (90.80 to 91.80): VL0





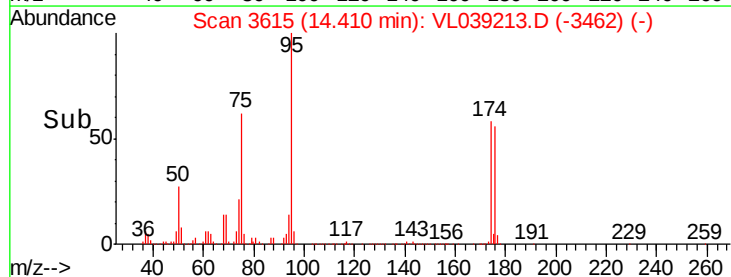
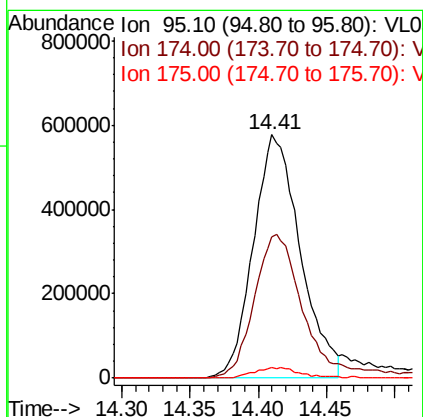
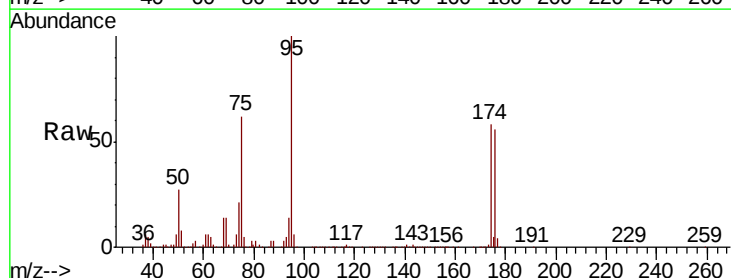
#60
o-Xylene
Concen: 0.101 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

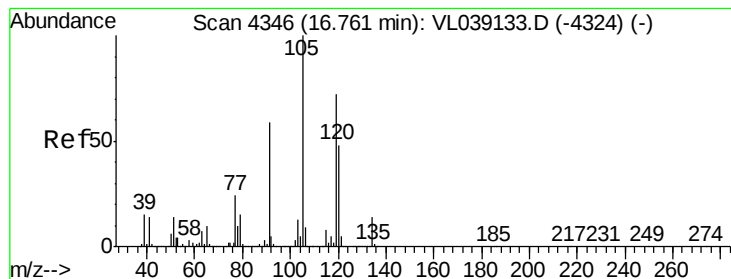
Tot Ion: 91 Resp: 19068
Ion Ratio Lower Upper
91 100
106 78.9 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.022 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. -0.01 min
Lab File: VL039213.D
Acq: 7 Jun 2022 17:33

Tgt Ion: 95 Resp: 1378126
Ion Ratio Lower Upper
95 100
174 64.9 53.8 80.8
175 4.8 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.094 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL039213.D

Acq: 7 Jun 2022 17:33

Tot Ion:105 Resp: 21057

Ion Ratio Lower Upper

105 100

120 29.7 38.1 57.1#

91 8.7 47.4 71.0#

77 18.0 19.5 29.3#

