

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037814.D
 Acq On : 8 Oct 2021 2:58
 Operator : SY/AP
 Sample : M4079-15
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P02

Quant Time: Oct 08 10:09:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1147783	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3332546	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2969721	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2131190	10.26	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

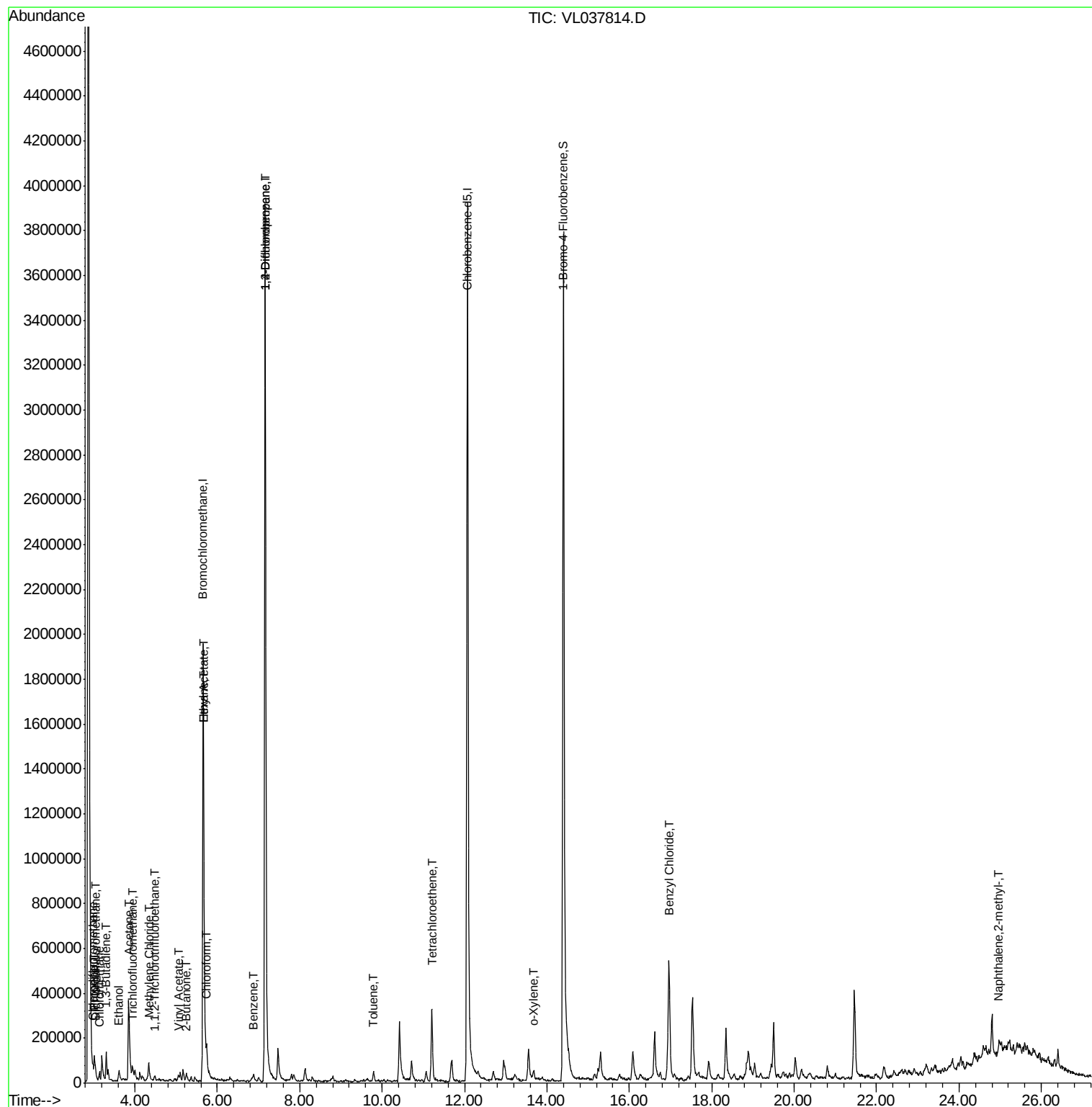
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	36042	0.197	ppbv	93
3) Chlorodifluoromethane	2.99	51	46307	0.210	ppbv	100
4) Chloromethane	3.14	50	30241	0.374	ppbv	94
9) Propene	3.01	41	13597	0.168	ppbv #	7
11) Trichlorofluoromethane	3.94	101	34368	0.210	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4175	0.034	ppbv #	1
13) Ethanol	3.61	45	32840	4.949	ppbv	61
15) Acetone	3.84	43	509589	4.946	ppbv	93
16) 1,3-Butadiene	3.31	39	36177	0.483	ppbv #	24
20) Methylene Chloride	4.33	84	15672	0.301	ppbv	89
23) Vinyl Acetate	5.06	43	7798	0.051	ppbv #	35
25) Ethyl Acetate	5.68	43	37637	0.130	ppbv #	83
26) Hexane	5.68	57	40825	0.287	ppbv #	54
29) Chloroform	5.74	83	58822	0.289	ppbv	98
34) 2-Butanone	5.23	43	5303	0.039	ppbv #	53
36) Benzene	6.88	78	10166	0.036	ppbv #	71
39) 1,2-Dichloropropane	7.16	63	790757	7.386	ppbv #	28
52) Tetrachloroethene	11.20	164	48350	0.437	ppbv	98
53) Toluene	9.79	91	7442	0.024	ppbv #	20
60) o-Xylene	13.67	91	17953	0.055	ppbv #	30
66) Benzyl Chloride	16.96	91	623	0.031	ppbv #	26
80) Naphthalene,2-methyl-	24.95	142	2173	0.037	ppbv	97

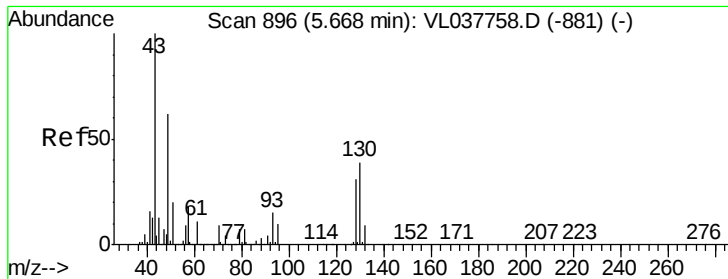
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

C0P02

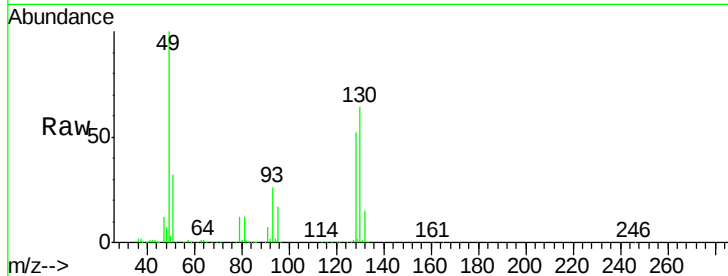
Tgt Ion: 49 Resp: 1147783

Ion Ratio Lower Upper

49 100

128 51.9 27.1 81.3

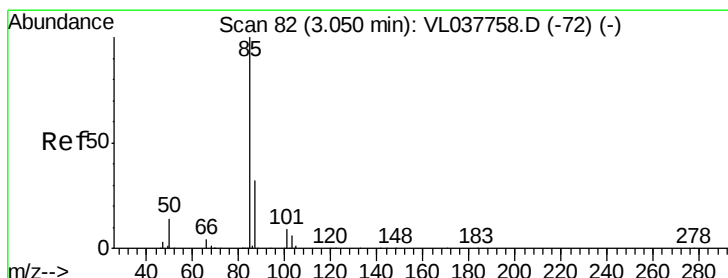
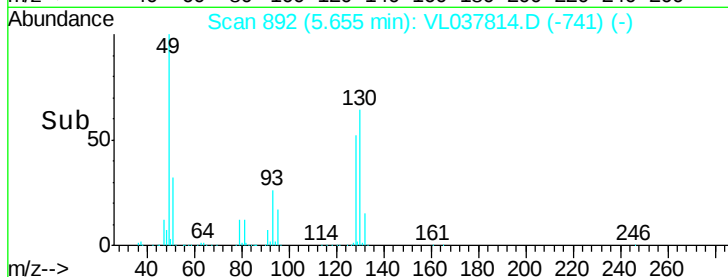
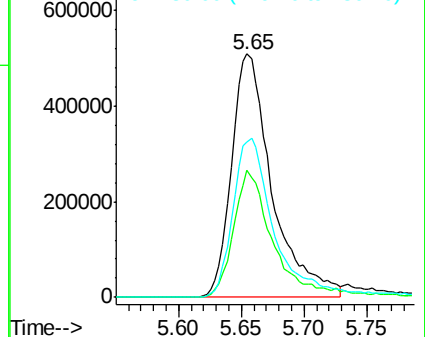
130 68.6 33.2 99.6



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: 0.197 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037814.D

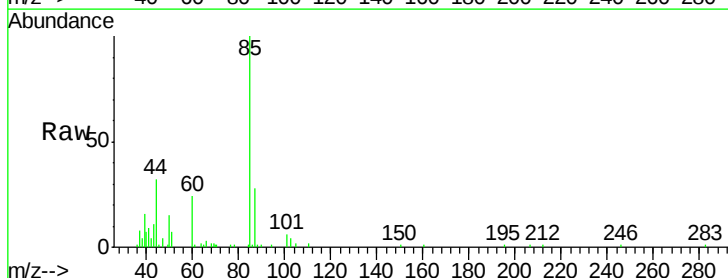
Acq: 8 Oct 2021 2:58

Tgt Ion: 85 Resp: 36042

Ion Ratio Lower Upper

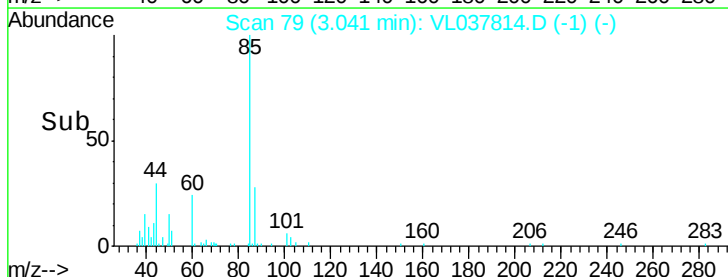
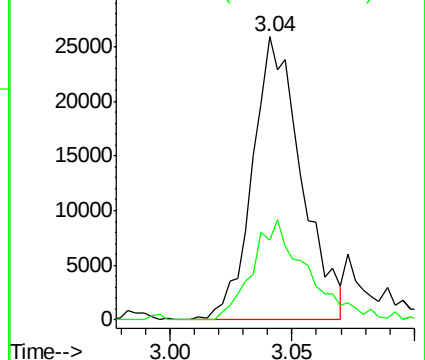
85 100

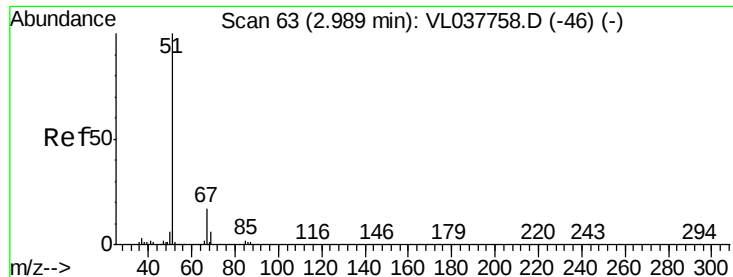
87 28.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.210 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

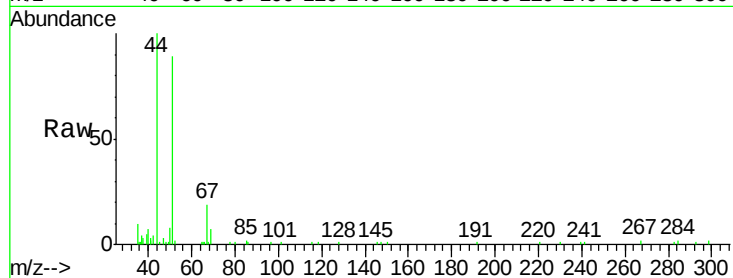
C0P02

Tgt Ion: 51 Resp: 46307

Ion Ratio Lower Upper

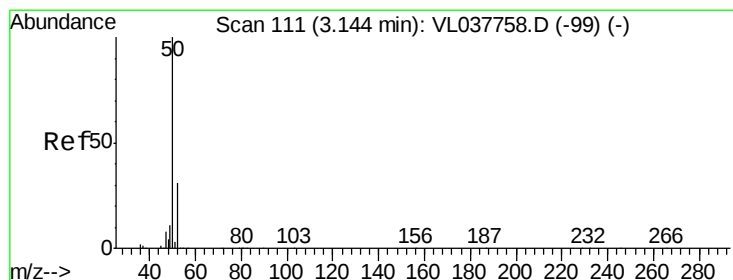
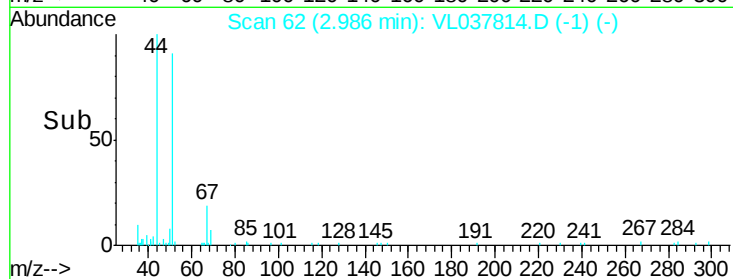
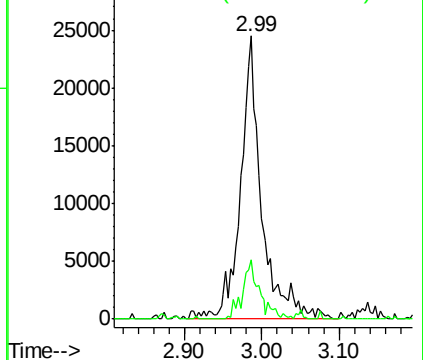
51 100

67 17.1 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.374 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037814.D

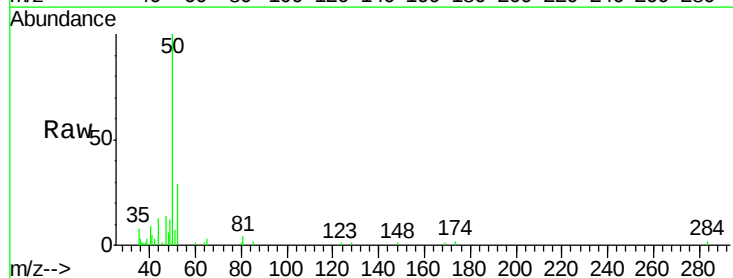
Acq: 8 Oct 2021 2:58

Tgt Ion: 50 Resp: 30241

Ion Ratio Lower Upper

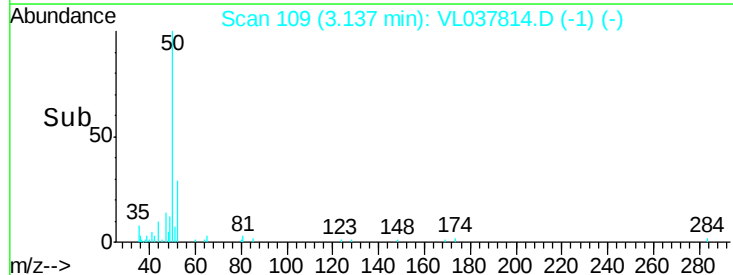
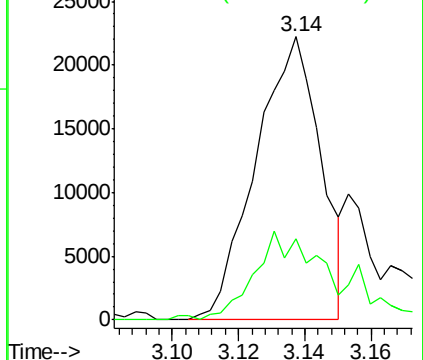
50 100

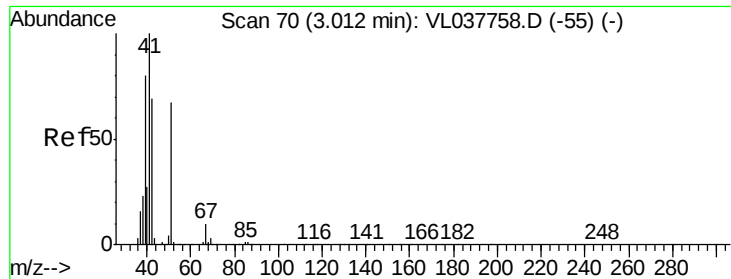
52 27.3 24.4 36.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.168 ppbv

RT: 3.01 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

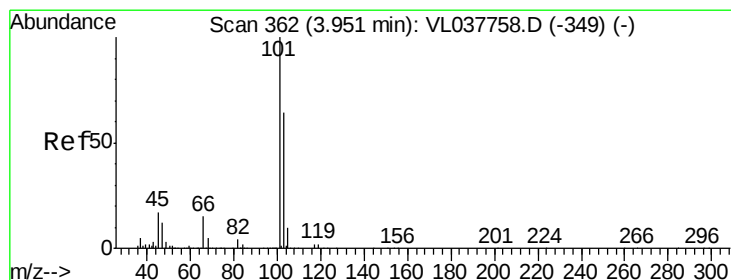
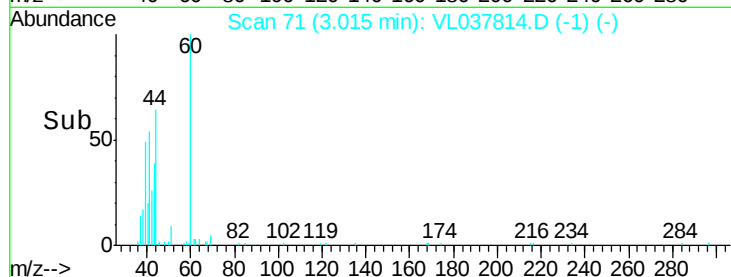
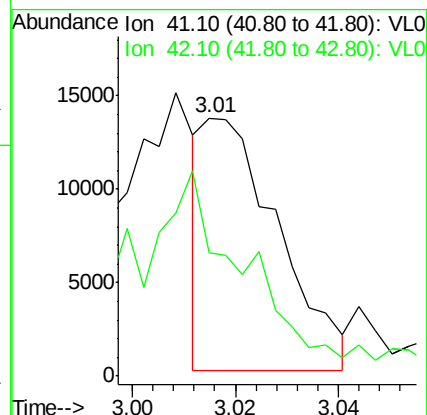
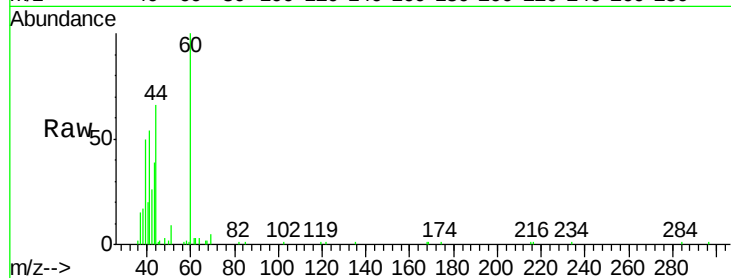
C0P02

Tgt Ion: 41 Resp: 13597

Ion Ratio Lower Upper

41 100

42 143.0 54.2 81.2#



#11

Trichlorofluoromethane

Concen: 0.210 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037814.D

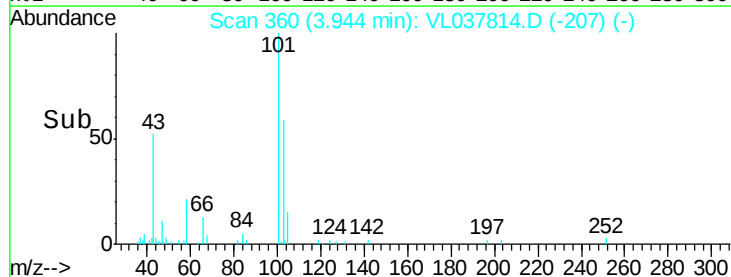
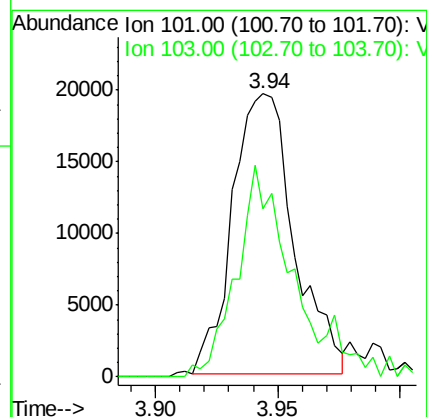
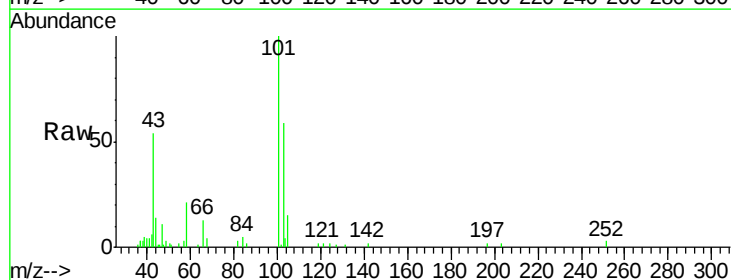
Acq: 8 Oct 2021 2:58

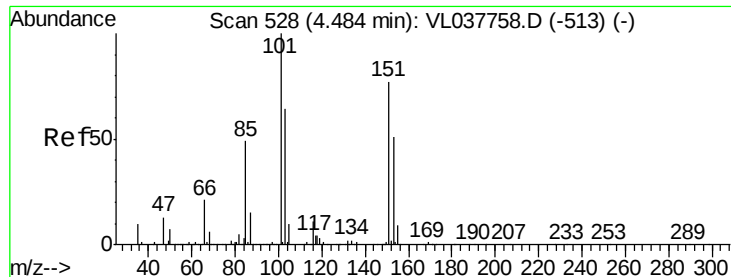
Tgt Ion: 101 Resp: 34368

Ion Ratio Lower Upper

101 100

103 59.6 51.5 77.3

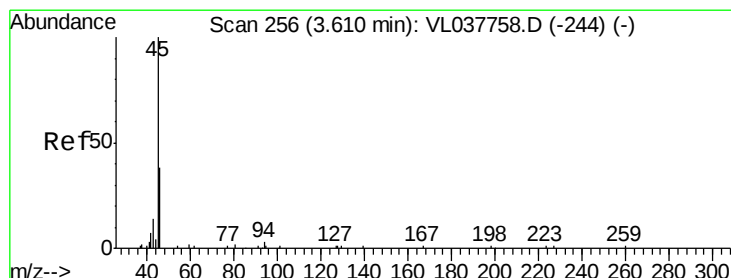
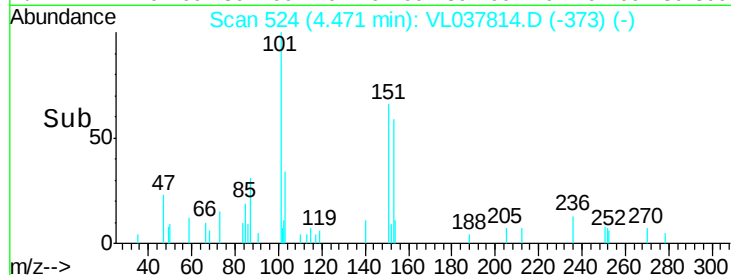
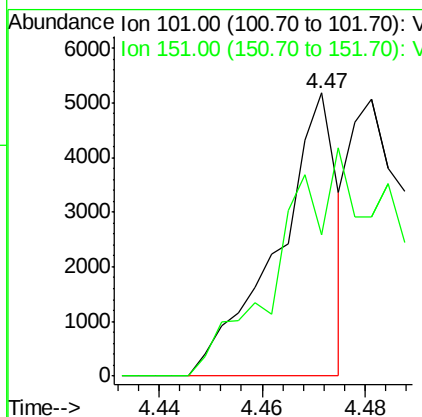
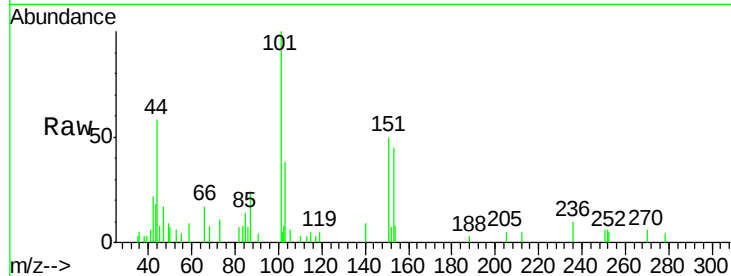




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.034 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: VL037814.D
 Acq: 8 Oct 2021 2:58

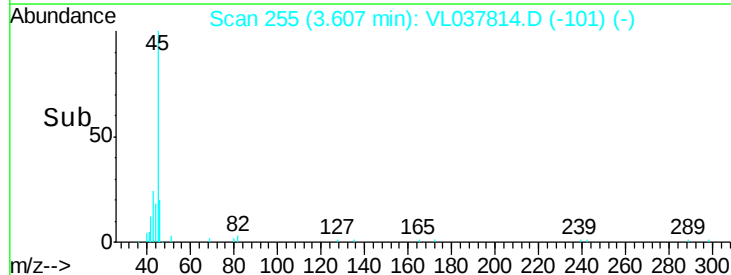
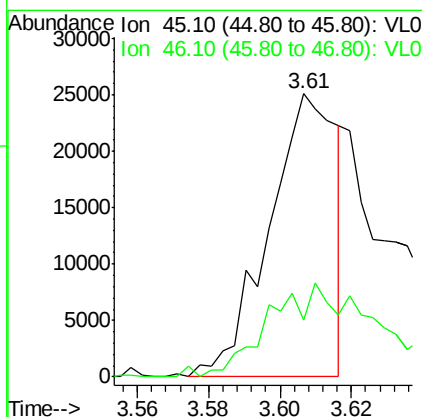
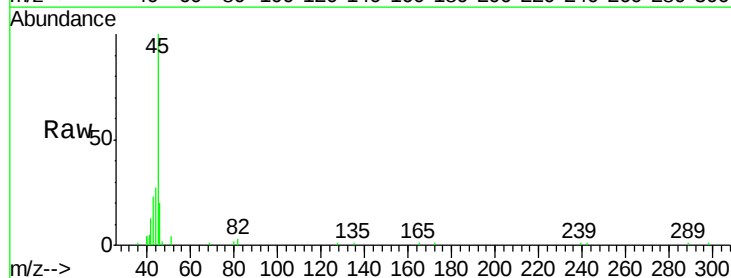
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P02

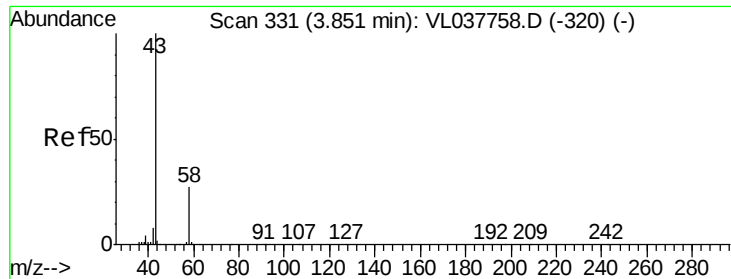
Tgt Ion:101 Resp: 4175
 Ion Ratio Lower Upper
 101 100
 151 187.4 62.9 94.3#



#13
 Ethanol
 Concen: 4.949 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL037814.D
 Acq: 8 Oct 2021 2:58

Tgt Ion: 45 Resp: 32840
 Ion Ratio Lower Upper
 45 100
 46 77.5 20.2 81.0





#15

Acetone

Concen: 4.946 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

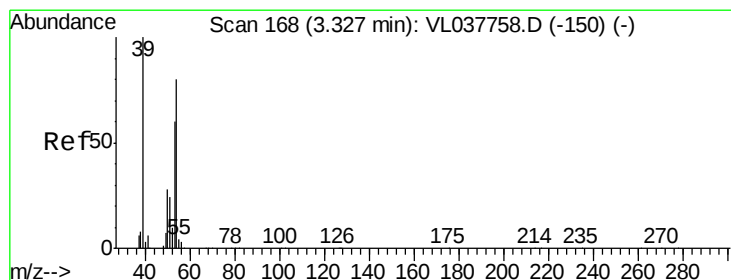
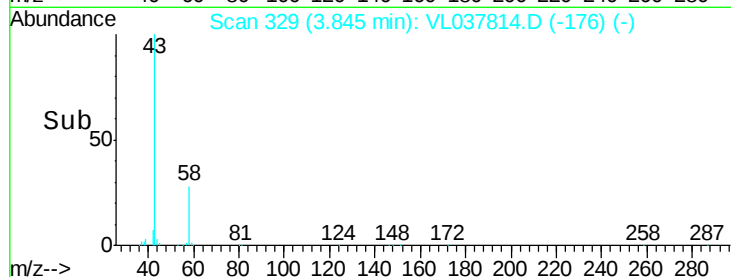
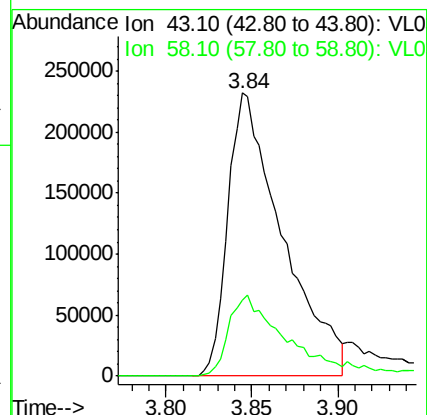
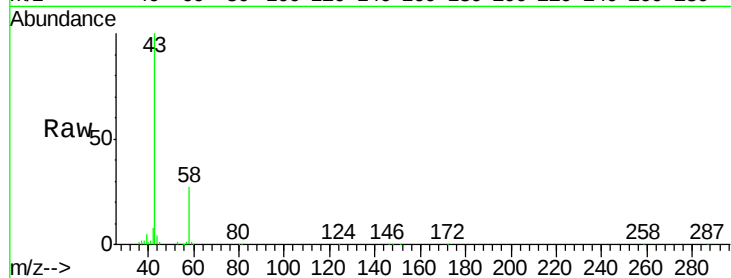
C0P02

Tgt Ion: 43 Resp: 509589

Ion Ratio Lower Upper

43 100

58 32.7 23.0 34.6



#16

1,3-Butadiene

Concen: 0.483 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL037814.D

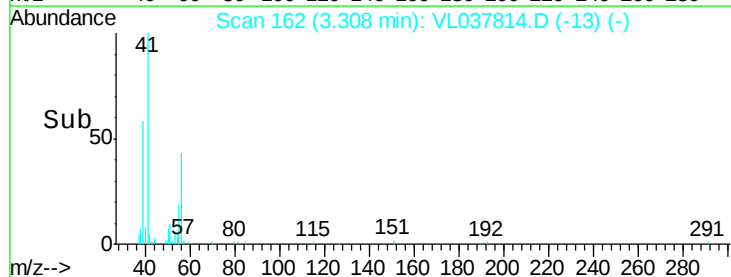
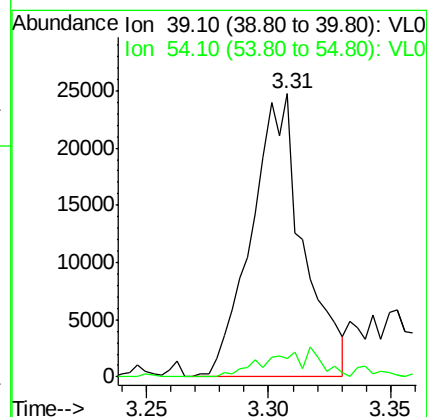
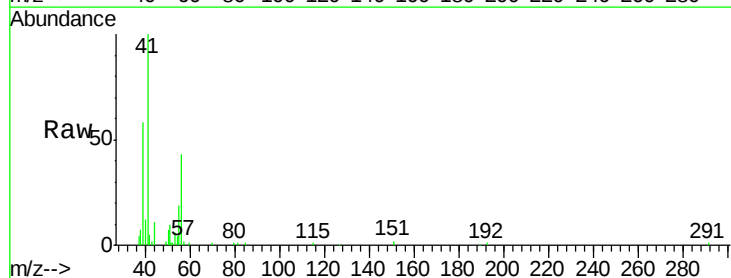
Acq: 8 Oct 2021 2:58

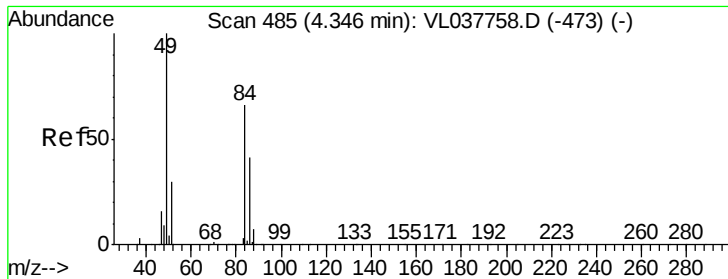
Tgt Ion: 39 Resp: 36177

Ion Ratio Lower Upper

39 100

54 11.8 61.7 92.5#

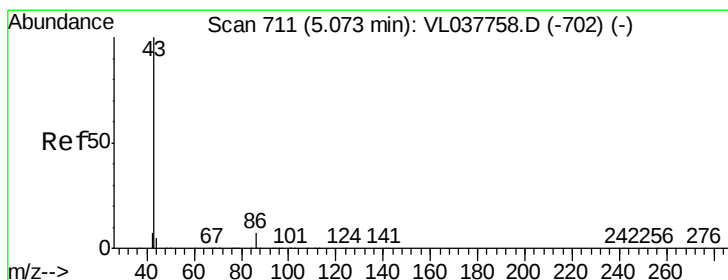
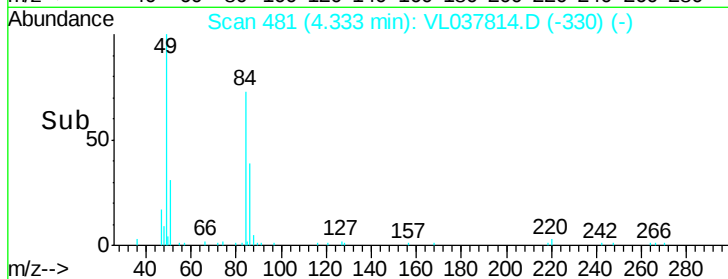
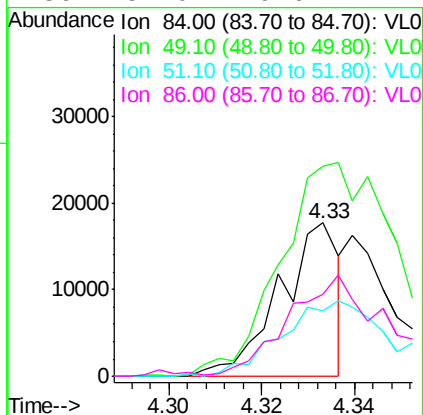
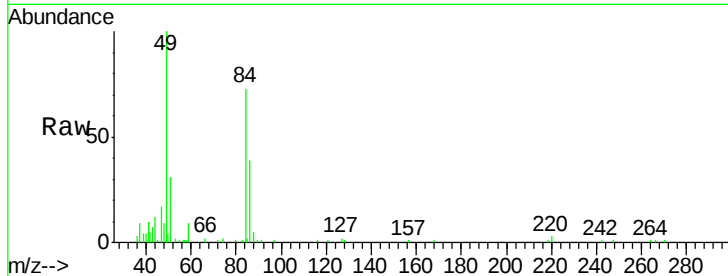




#20
Methylene Chloride
Concen: 0.301 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

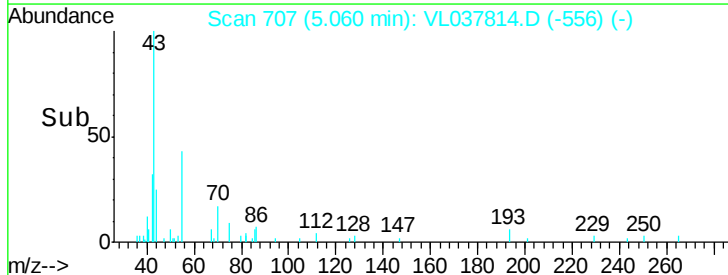
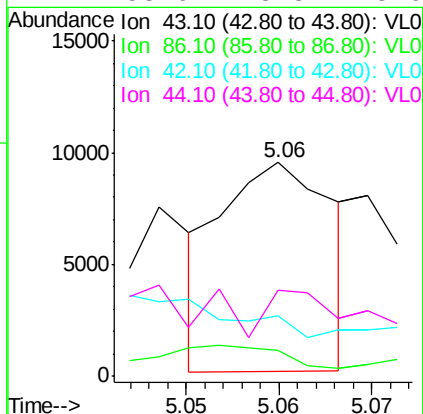
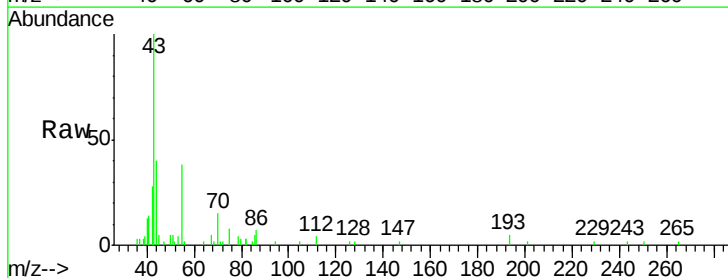
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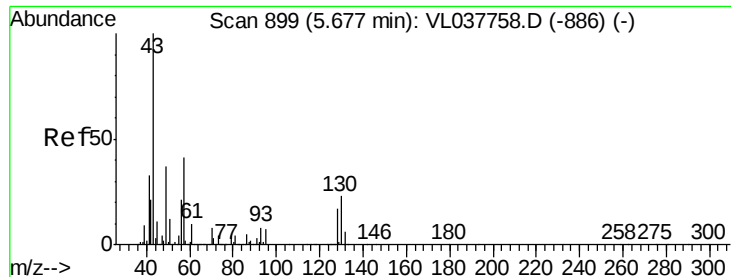
Tgt Ion:	84	Resp:	15672
Ion	Ratio	Lower	Upper
84	100		
49	136.0	120.7	181.1
51	40.9	36.2	54.4
86	51.0	49.6	74.4



#23
Vinyl Acetate
Concen: 0.051 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.01 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Tgt Ion:	43	Resp:	7798
Ion	Ratio	Lower	Upper
43	100		
86	25.5	5.0	7.4#
42	19.4	7.4	11.0#
44	53.6	3.8	5.6#

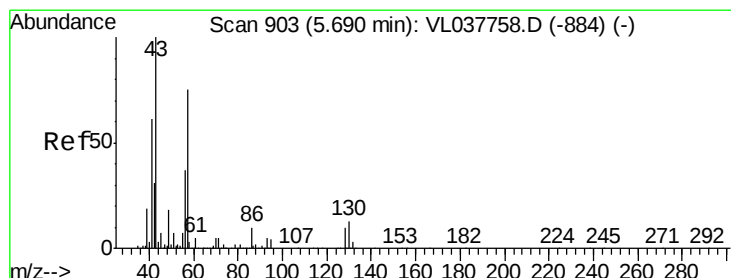
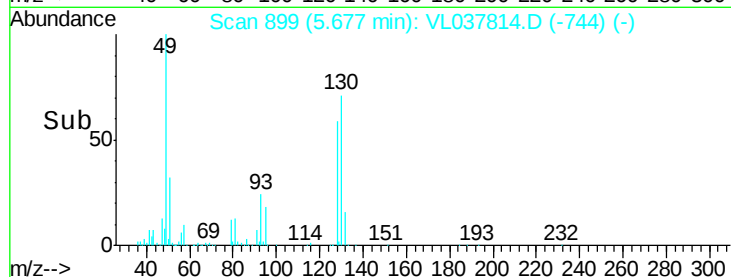
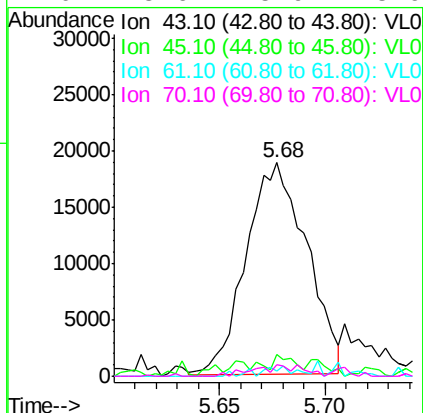
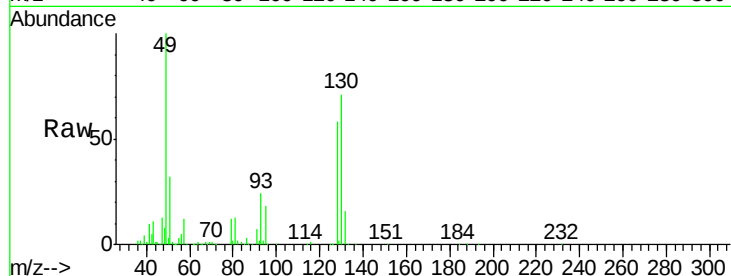




#25
Ethyl Acetate
Concen: 0.130 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

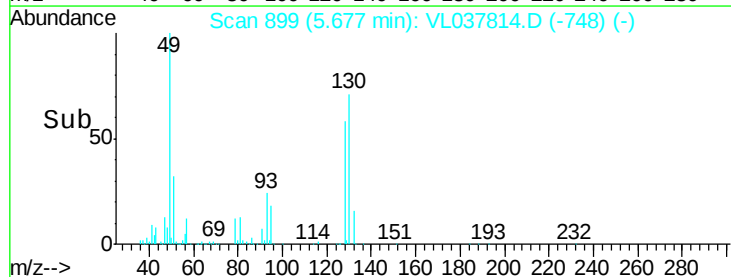
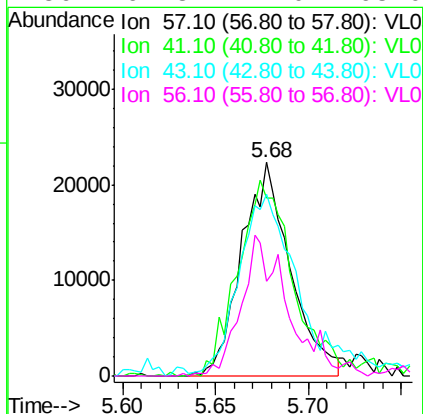
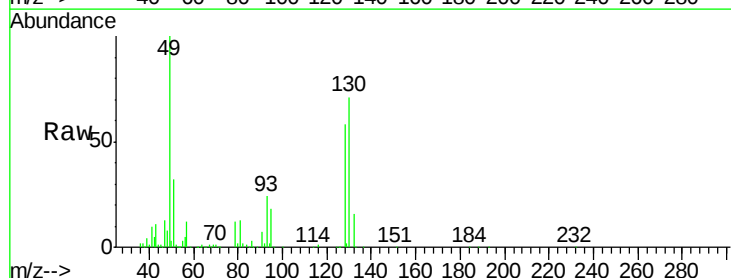
Instrument :
MSVOA_L
ClientSampled :
C0P02

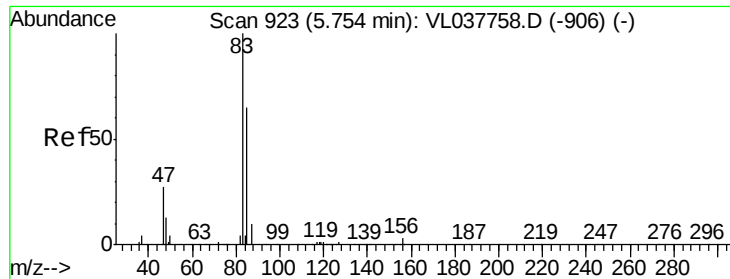
Tgt Ion:	43	Resp:	37637
Ion	Ratio	Lower	Upper
43	100		
45	16.2	8.1	12.1#
61	0.0	7.5	11.3#
70	5.6	5.9	8.9#



#26
Hexane
Concen: 0.287 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Tgt Ion:	57	Resp:	40825
Ion	Ratio	Lower	Upper
57	100		
41	106.7	69.6	104.4#
43	114.1	171.4	257.0#
56	64.8	42.0	63.0#





#29

Chloroform

Concen: 0.289 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

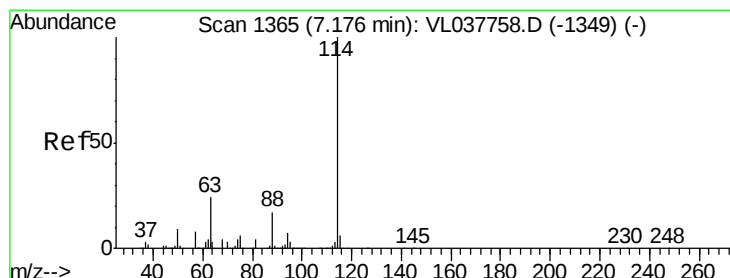
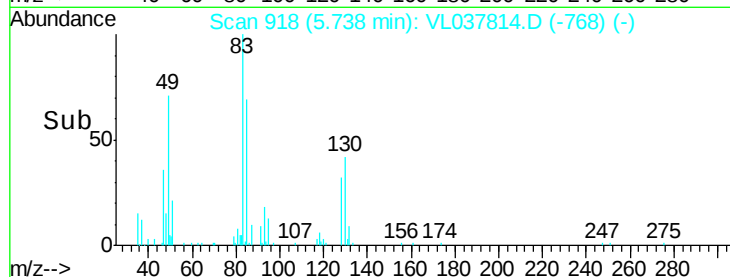
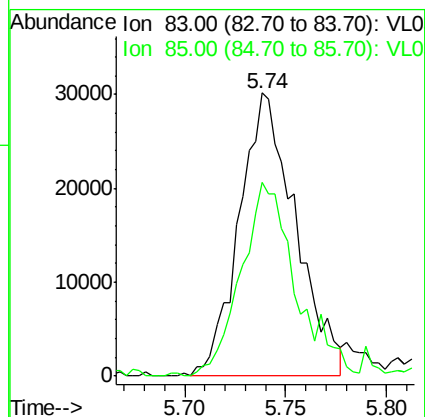
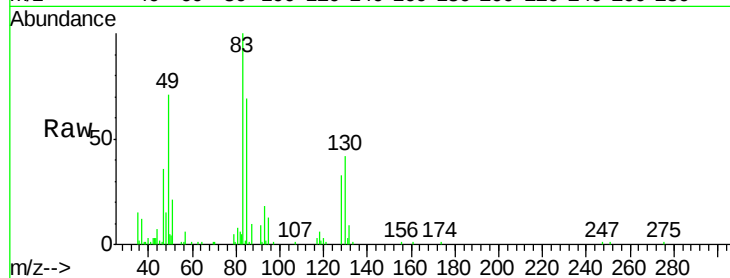
C0P02

Tgt Ion: 83 Resp: 58822

Ion Ratio Lower Upper

83 100

85 66.5 51.8 77.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

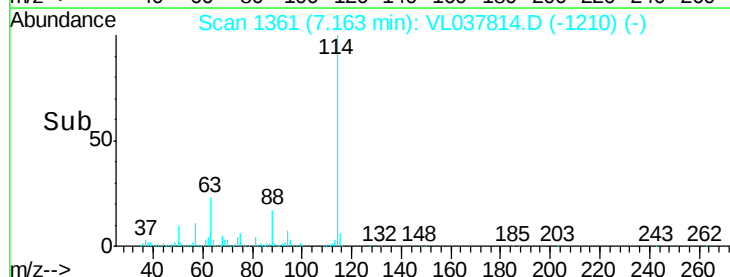
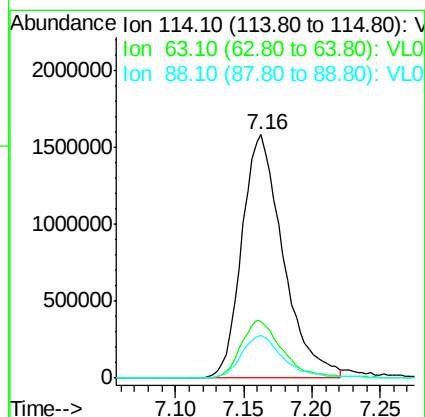
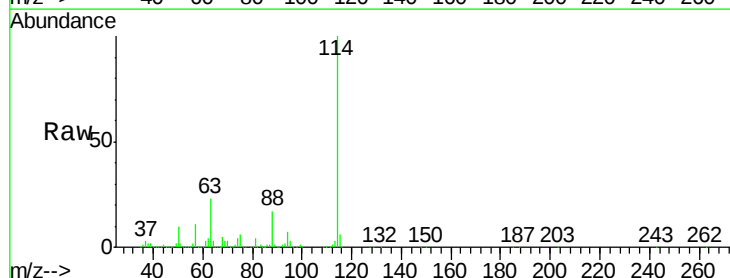
Tgt Ion: 114 Resp: 3332546

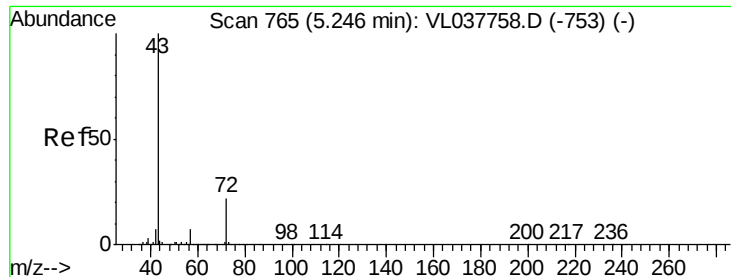
Ion Ratio Lower Upper

114 100

63 24.3 19.4 29.2

88 18.2 14.4 21.6





#34

2-Butanone

Concen: 0.039 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

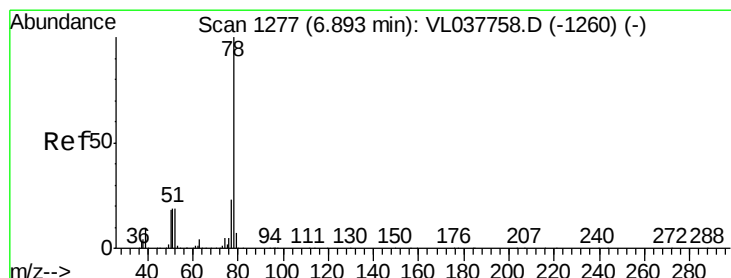
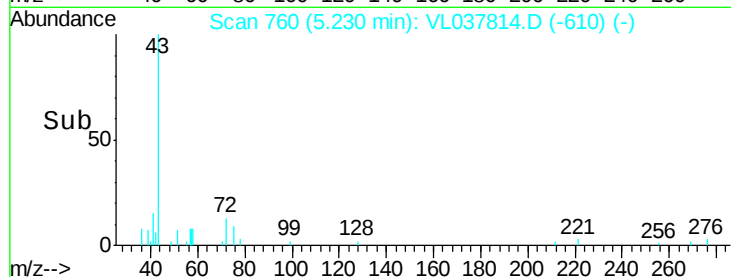
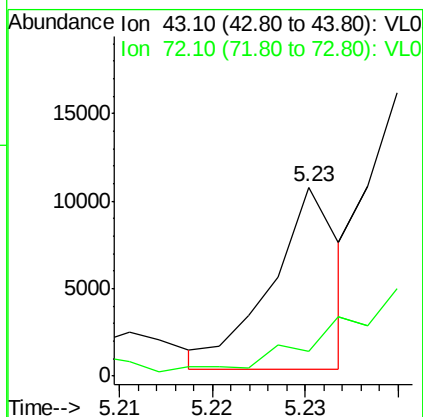
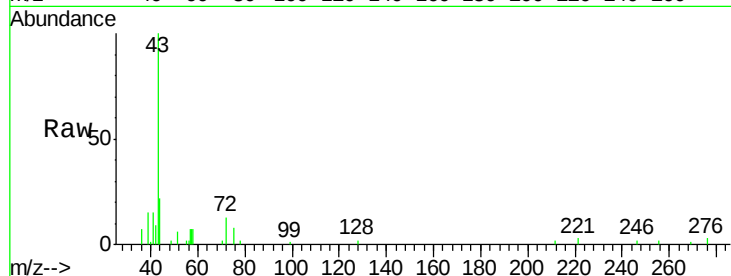
C0P02

Tgt Ion: 43 Resp: 5303

Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.2#



#36

Benzene

Concen: 0.036 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

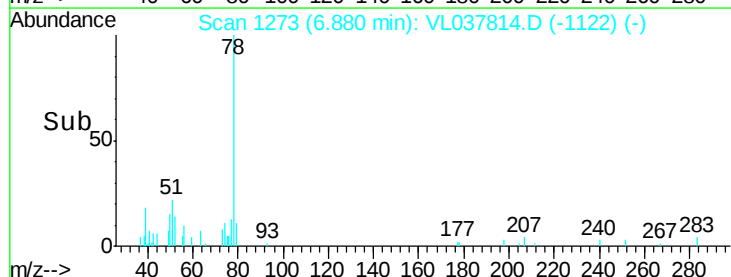
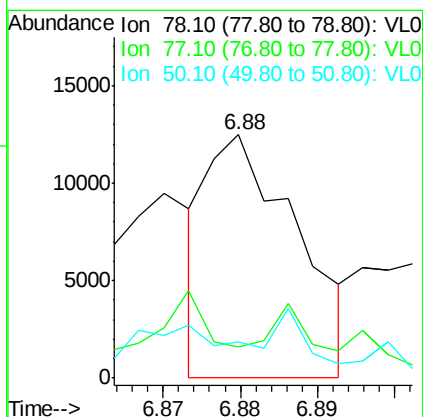
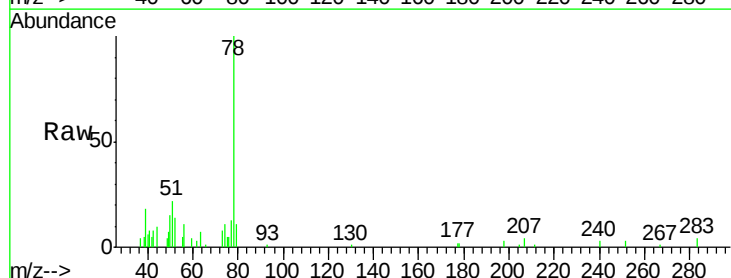
Tgt Ion: 78 Resp: 10166

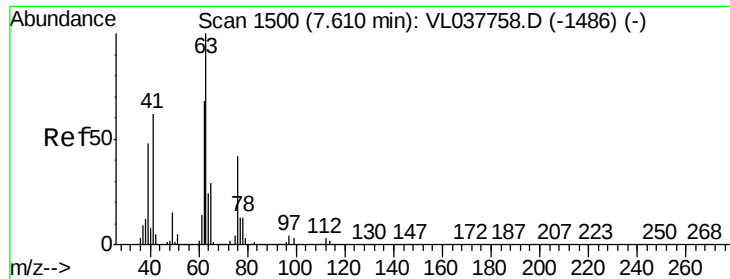
Ion Ratio Lower Upper

78 100

77 2.2 18.8 28.2#

50 14.0 14.7 22.1#





#39

1,2-Dichloropropane

Concen: 7.386 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.45 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

C0P02

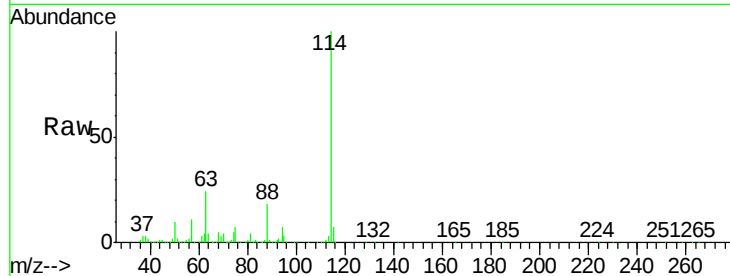
Tgt Ion: 63 Resp: 790757

Ion Ratio Lower Upper

63 100

41 0.1 49.8 74.6#

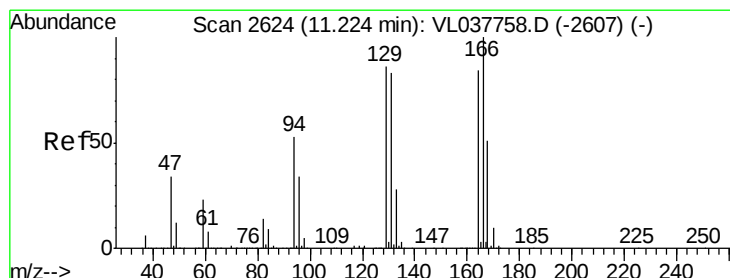
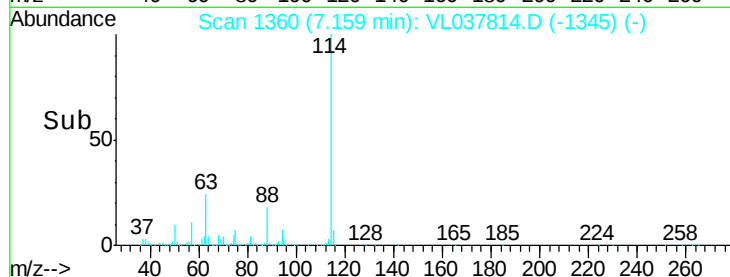
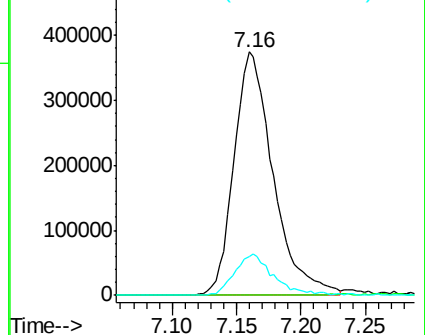
62 16.1 54.6 82.0#



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



#52

Tetrachloroethene

Concen: 0.437 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Tgt Ion: 164 Resp: 48350

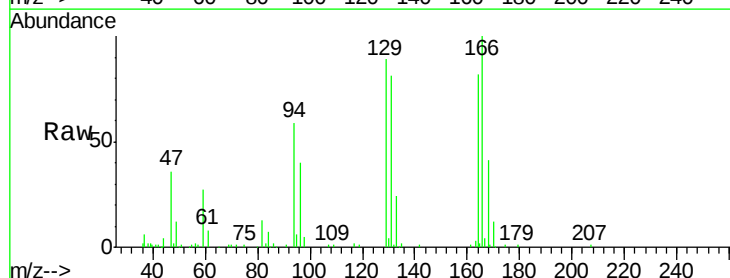
Ion Ratio Lower Upper

164 100

166 117.2 95.4 143.2

129 105.1 82.2 123.4

131 97.4 79.4 119.2

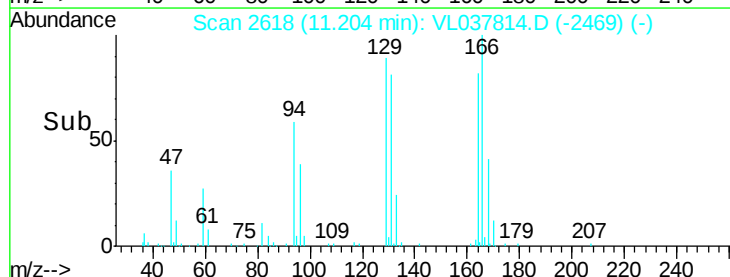
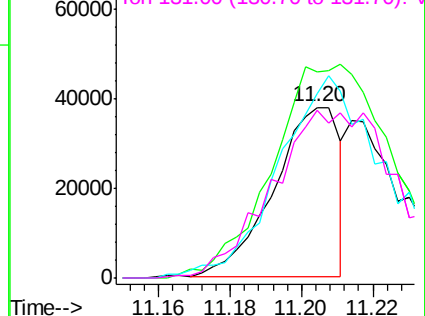


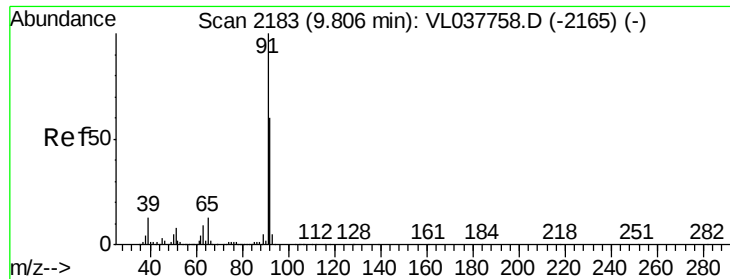
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.024 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

Instrument :

MSVOA_L

ClientSampleId :

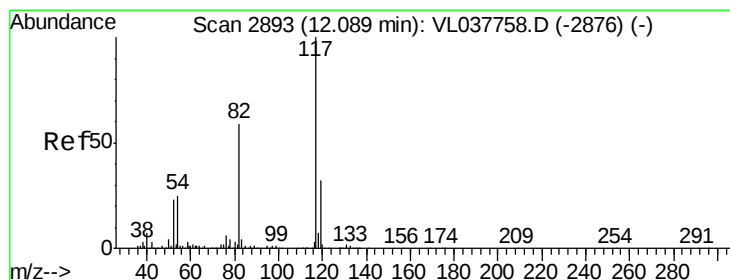
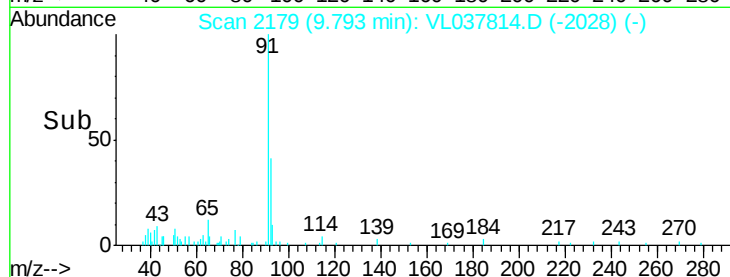
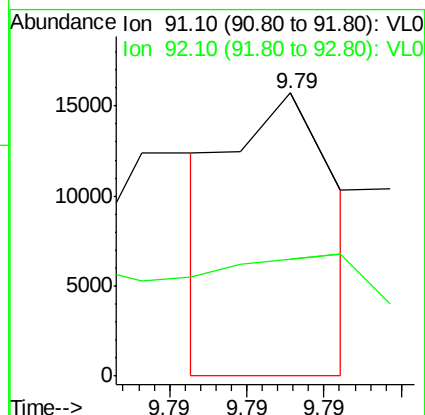
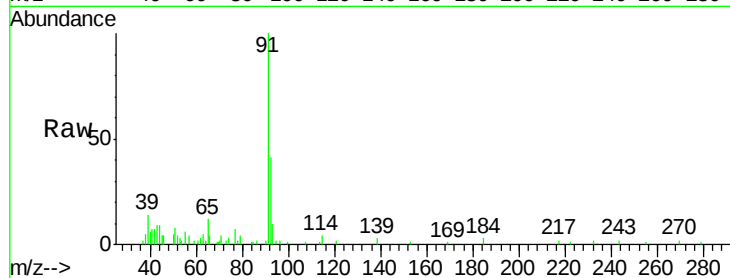
C0P02

Tgt Ion: 91 Resp: 7442

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.02 min

Lab File: VL037814.D

Acq: 8 Oct 2021 2:58

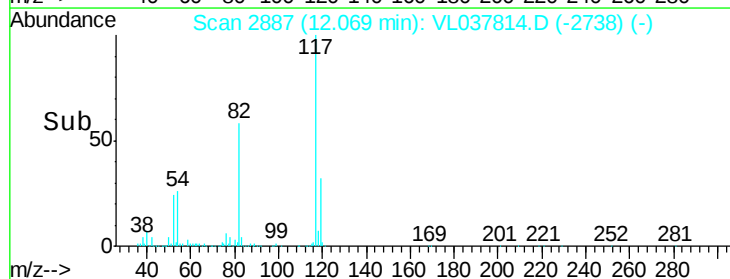
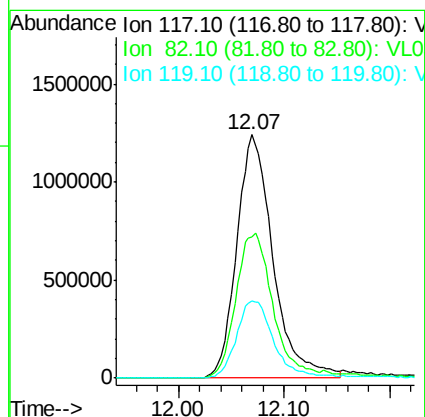
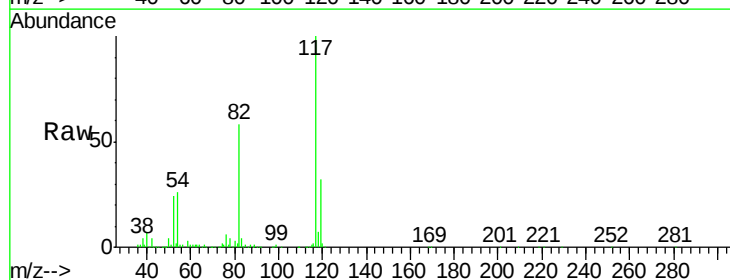
Tgt Ion: 117 Resp: 2969721

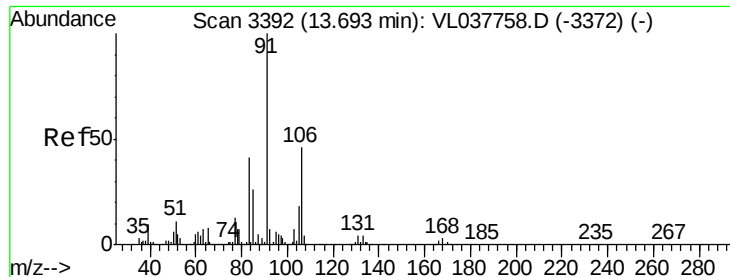
Ion Ratio Lower Upper

117 100

82 63.8 52.2 78.2

119 34.3 26.0 39.0

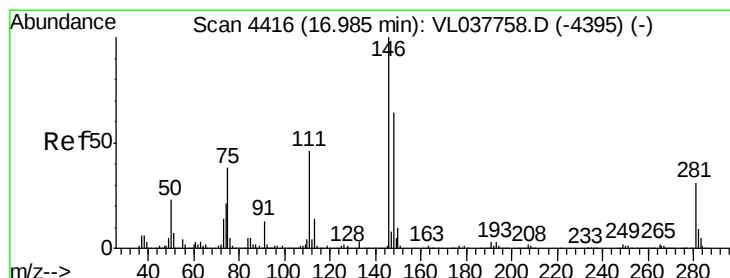
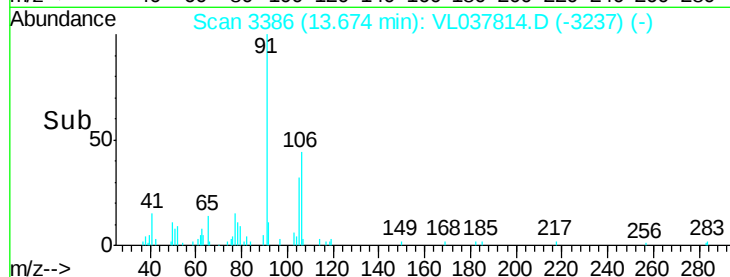
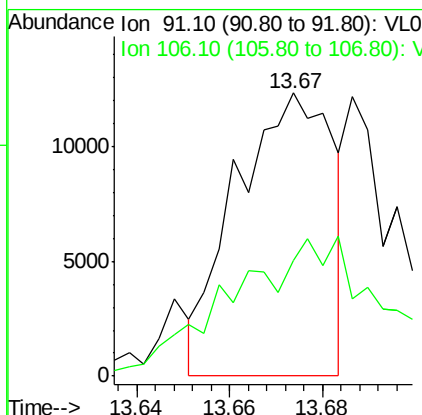
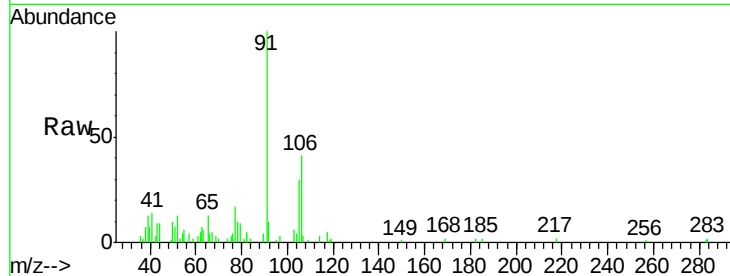




#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.02 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

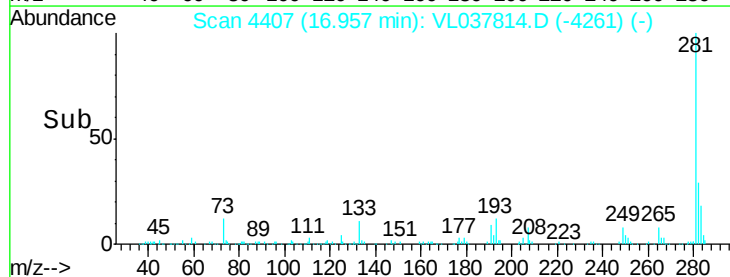
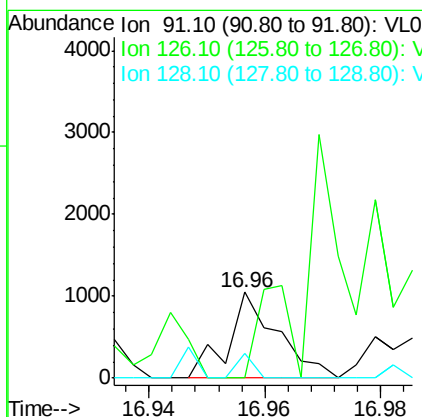
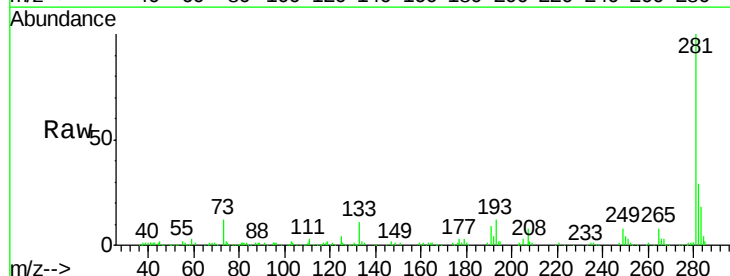
Instrument :
MSVOA_L
ClientSampleId :
C0P02

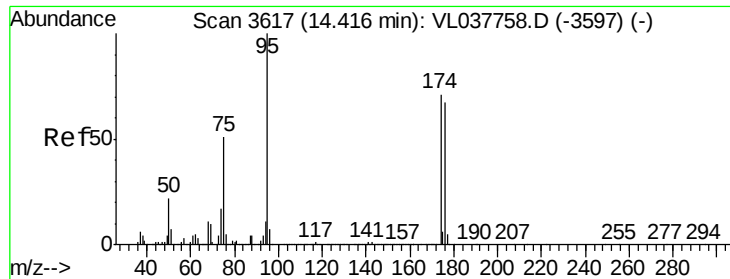
Tgt Ion: 91 Resp: 17953
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5#



#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 16.96 min Scan# 4407
Delta R.T. -0.03 min
Lab File: VL037814.D
Acq: 8 Oct 2021 2:58

Tgt Ion: 91 Resp: 623
Ion Ratio Lower Upper
91 100
126 0.0 0.0 0.0
128 31.9 5.3 7.9#

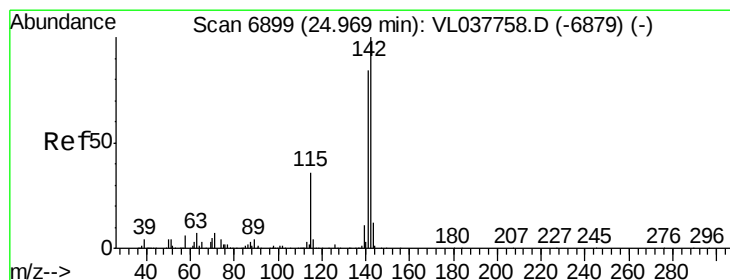
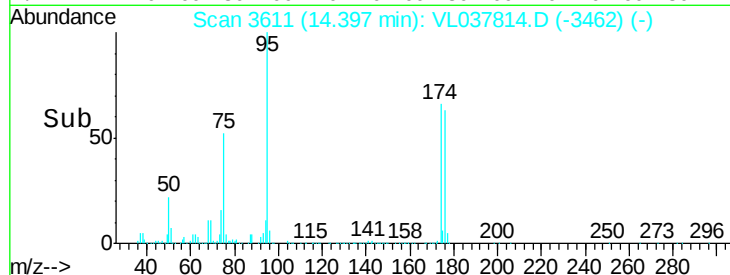
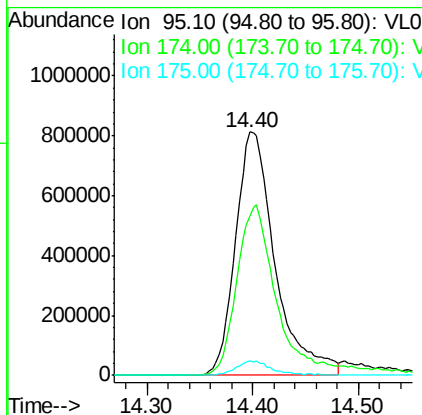
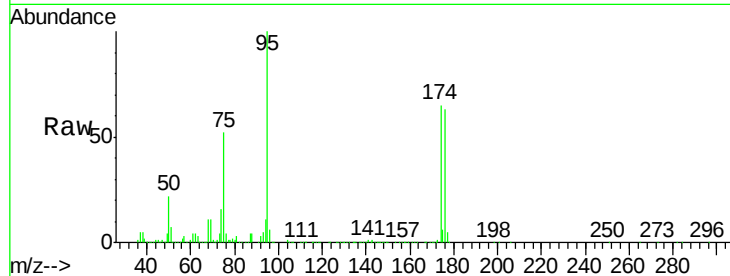




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.262 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL037814.D
 Acq: 8 Oct 2021 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P02

Tgt Ion: 95 Resp: 2131190
 Ion Ratio Lower Upper
 95 100
 174 74.5 57.8 86.6
 175 5.6 4.7 7.1



#80
 Naphthalene, 2-methyl-
 Concen: 0.037 ppbv
 RT: 24.95 min Scan# 6894
 Delta R.T. -0.02 min
 Lab File: VL037814.D
 Acq: 8 Oct 2021 2:58

Tgt Ion: 142 Resp: 2173
 Ion Ratio Lower Upper
 142 100
 141 86.3 68.6 102.8
 115 31.6 29.0 43.6

