

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037770.D
 Acq On : 5 Oct 2021 12:44
 Operator : SY/AP
 Sample : M4012-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P23

Quant Time: Oct 06 04:45:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	1390710	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3928056	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3449701	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2385068	9.89	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

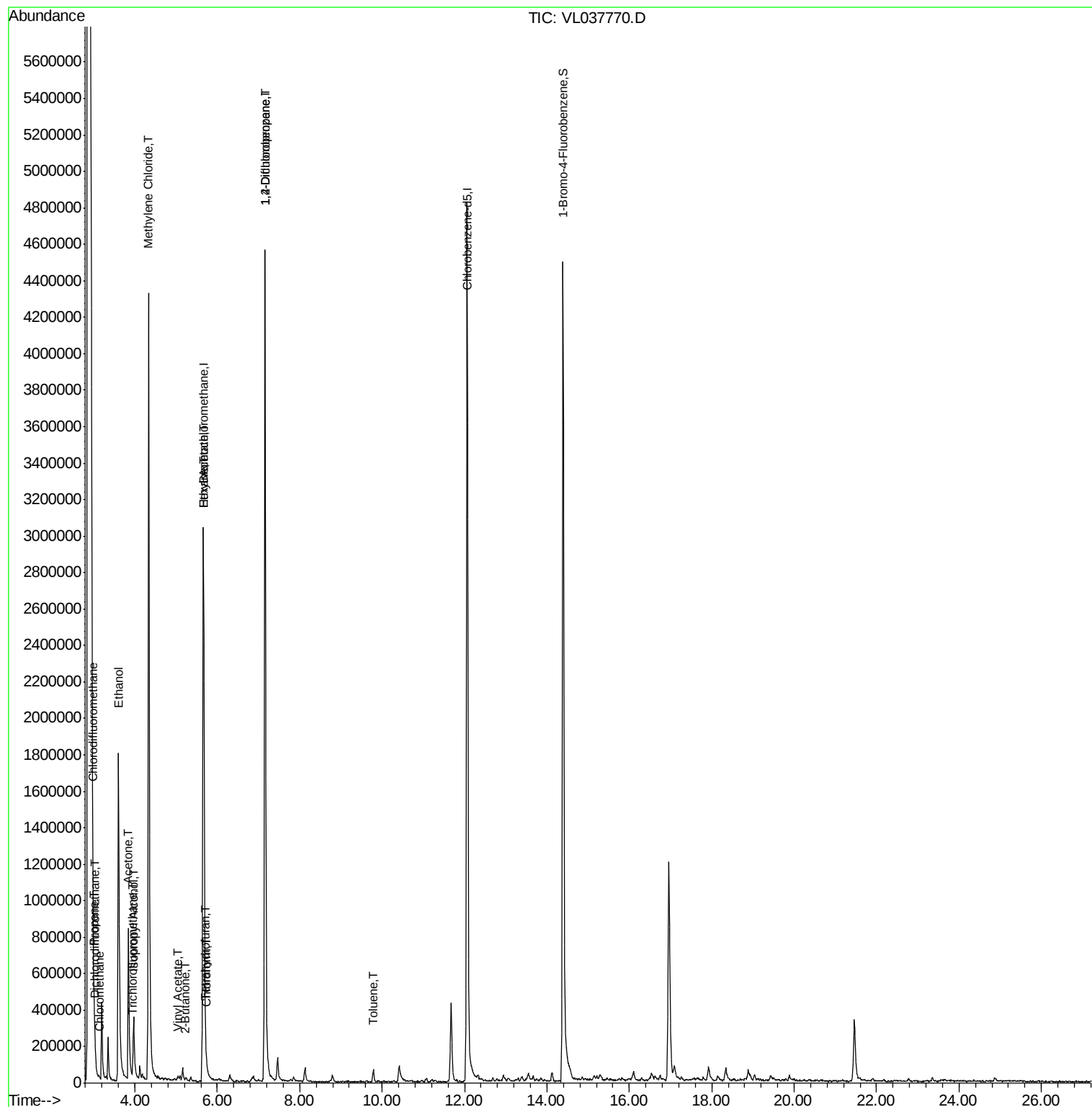
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	32870	0.148	ppbv	93
3) Chlorodifluoromethane	2.98	51	26601	0.100	ppbv #	81
4) Chloromethane	3.14	50	5671	0.058	ppbv #	60
9) Propene	3.01	41	17574	0.179	ppbv #	50
11) Trichlorofluoromethane	3.94	101	7309	0.037	ppbv	94
13) Ethanol	3.60	45	2446855	304.307	ppbv	80
15) Acetone	3.84	43	1010437	8.094	ppbv	99
19) Isopropyl Alcohol	3.97	45	449425	5.786	ppbv #	95
20) Methylene Chloride	4.33	84	1802457	28.574	ppbv	98
23) Vinyl Acetate	5.05	43	9178	0.049	ppbv #	15
25) Ethyl Acetate	5.67	43	527155	1.505	ppbv #	78
26) Hexane	5.67	57	718554	4.165	ppbv #	45
29) Chloroform	5.74	83	6517	0.026	ppbv	95
34) 2-Butanone	5.23	43	5434	0.034	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	920299	7.292	ppbv #	30
41) Tetrahydrofuran	5.73	42	3077	0.040	ppbv #	51
53) Toluene	9.79	91	29792	0.080	ppbv #	40

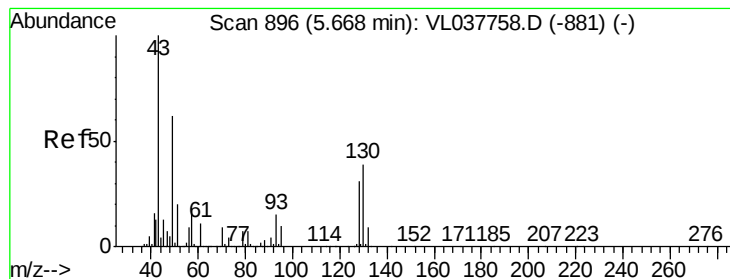
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

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C0P23

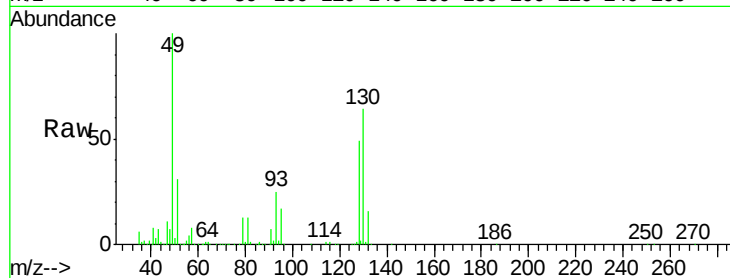
Tgt Ion: 49 Resp: 1390710

Ion Ratio Lower Upper

49 100

128 52.8 27.1 81.3

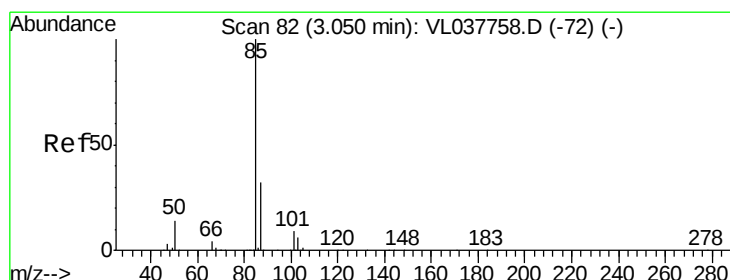
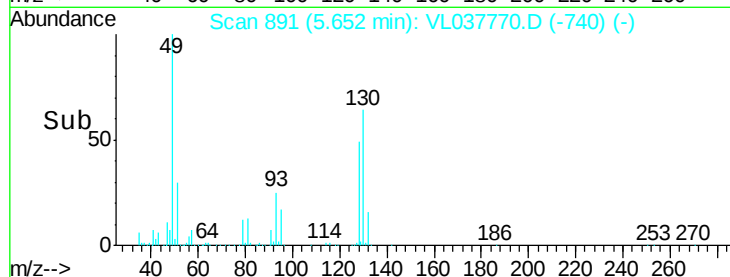
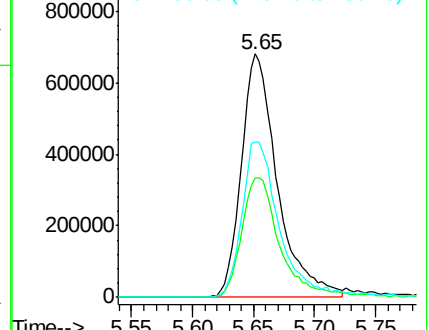
130 67.8 33.2 99.6



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: 0.148 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037770.D

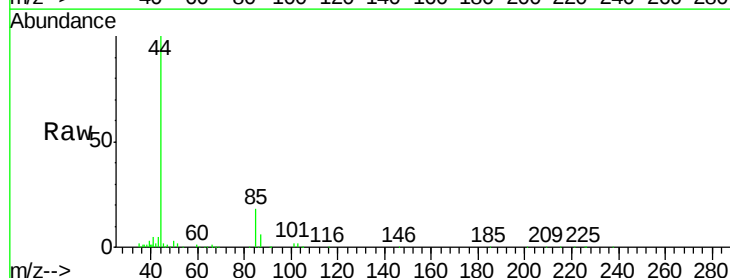
Acq: 5 Oct 2021 12:44

Tgt Ion: 85 Resp: 32870

Ion Ratio Lower Upper

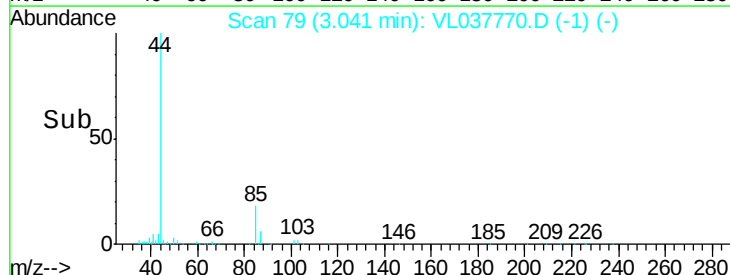
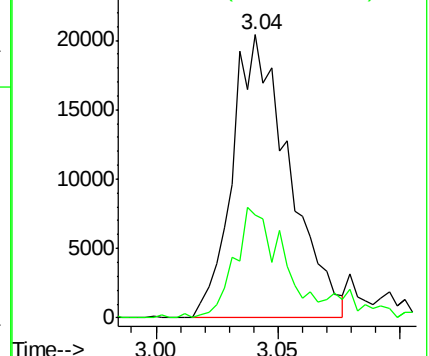
85 100

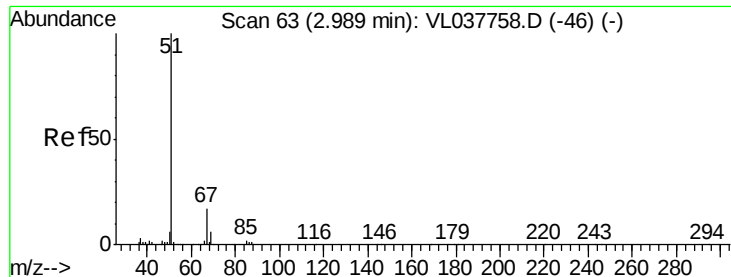
87 36.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.100 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

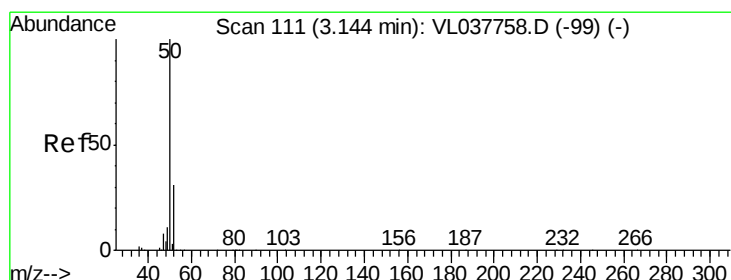
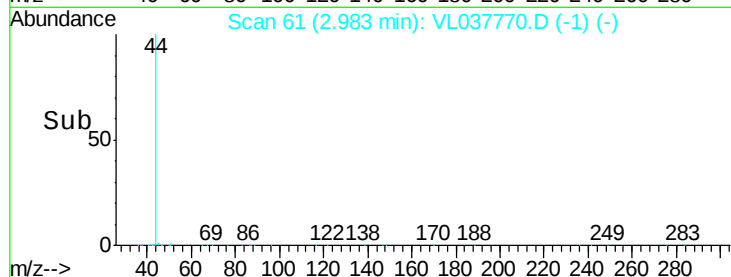
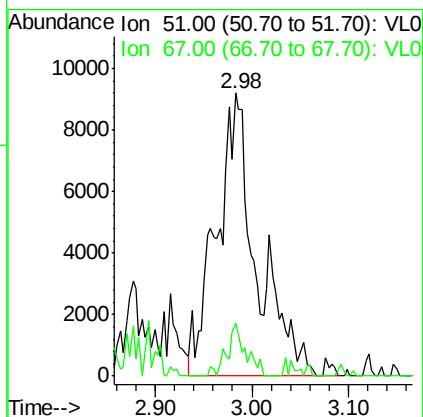
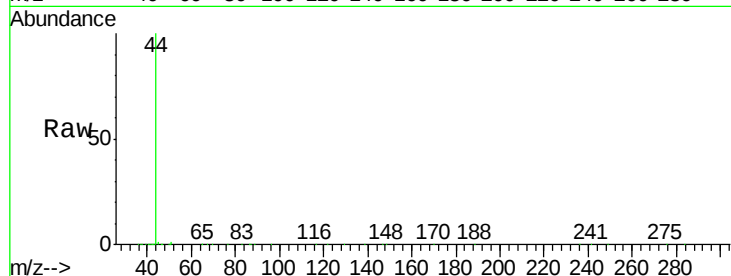
C0P23

Tgt Ion: 51 Resp: 26601

Ion Ratio Lower Upper

51 100

67 8.7 13.5 20.3#



#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037770.D

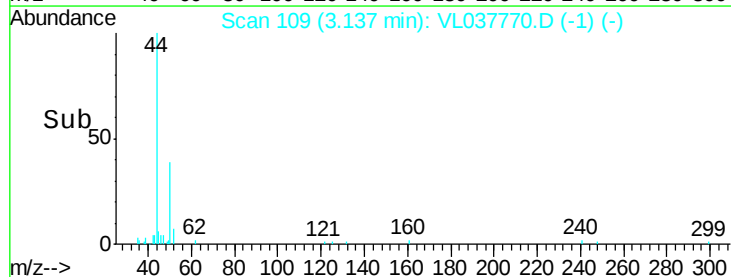
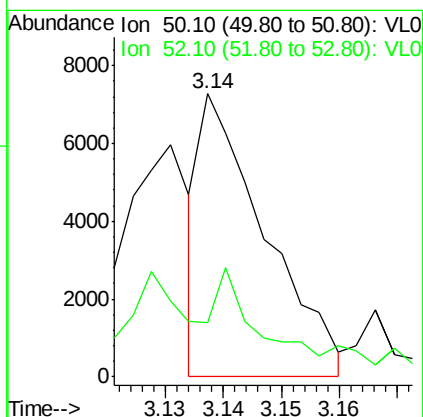
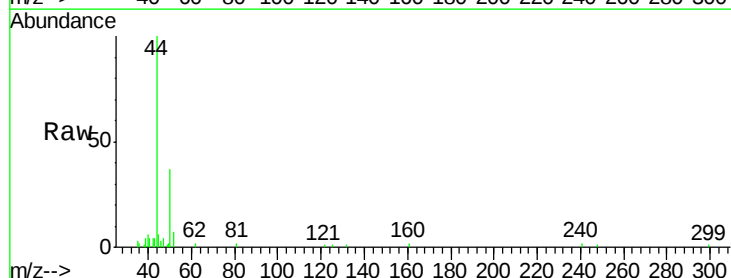
Acq: 5 Oct 2021 12:44

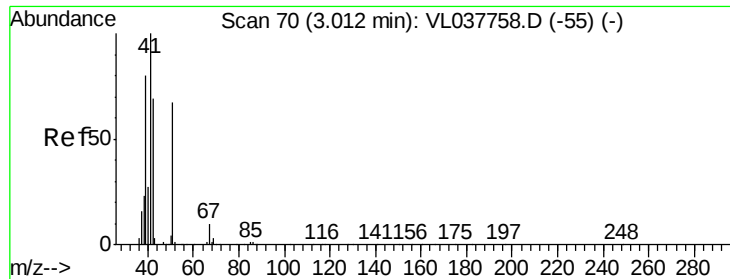
Tgt Ion: 50 Resp: 5671

Ion Ratio Lower Upper

50 100

52 8.8 24.4 36.6#





#9

Propene

Concen: 0.179 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

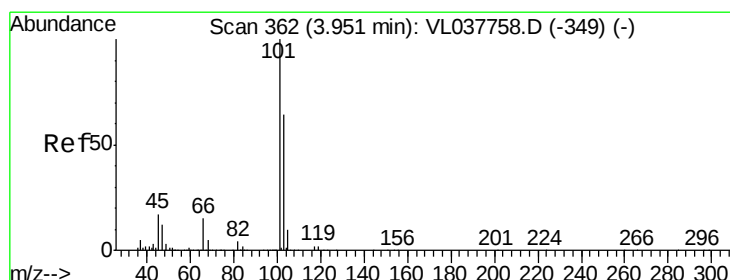
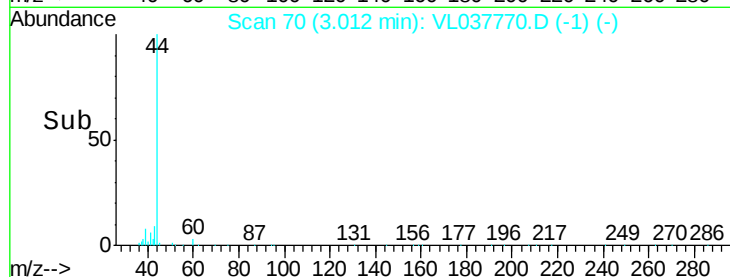
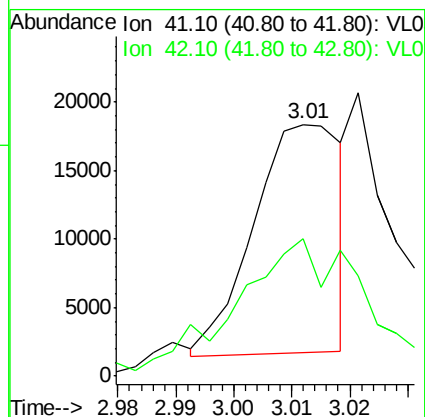
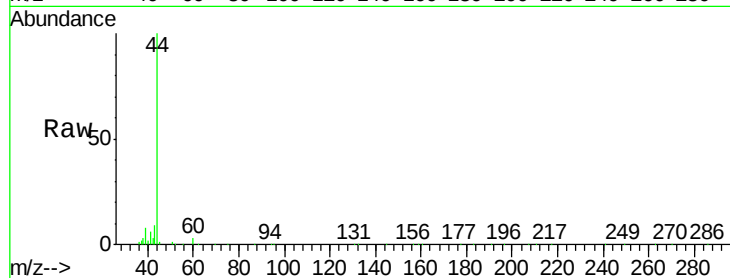
C0P23

Tgt Ion: 41 Resp: 17574

Ion Ratio Lower Upper

41 100

42 108.1 54.2 81.2#



#11

Trichlorofluoromethane

Concen: 0.037 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL037770.D

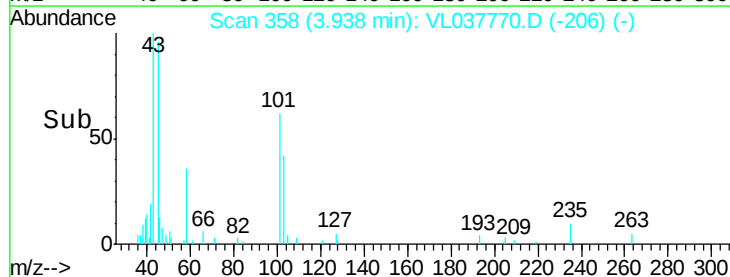
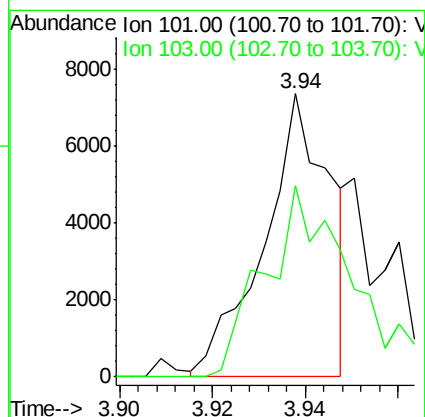
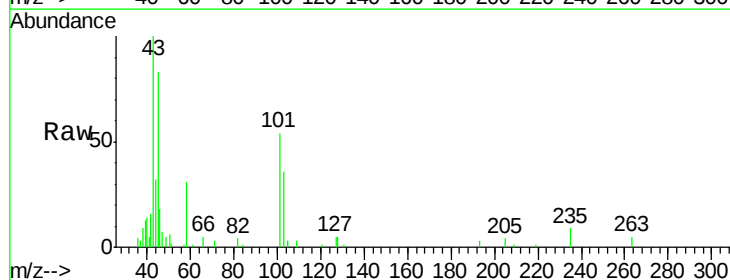
Acq: 5 Oct 2021 12:44

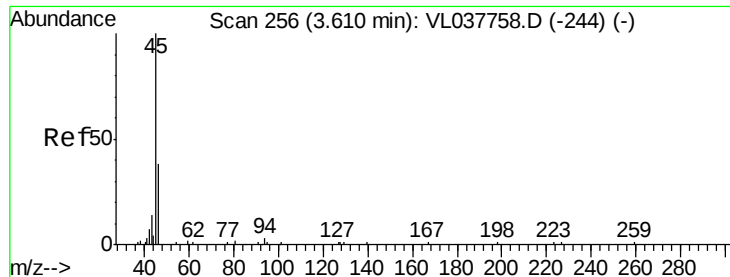
Tgt Ion: 101 Resp: 7309

Ion Ratio Lower Upper

101 100

103 68.8 51.5 77.3

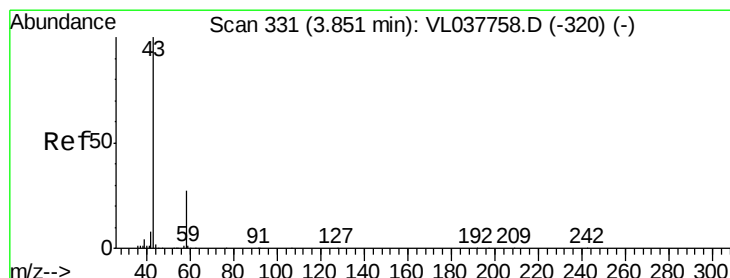
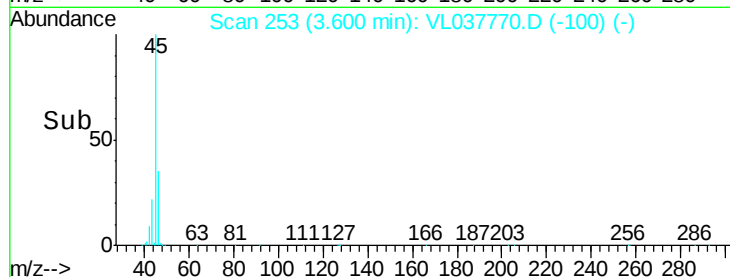
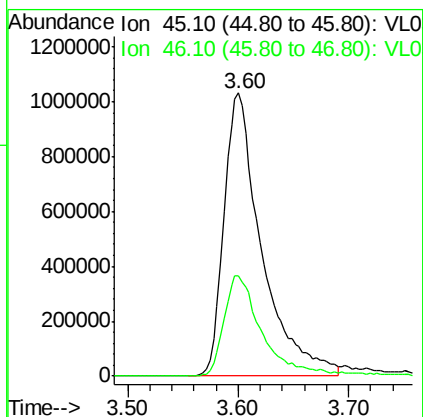
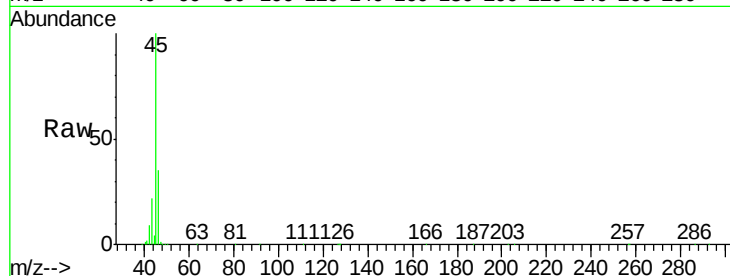




#13
Ethanol
Concen: 304.307 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL037770.D
Acq: 5 Oct 2021 12:44

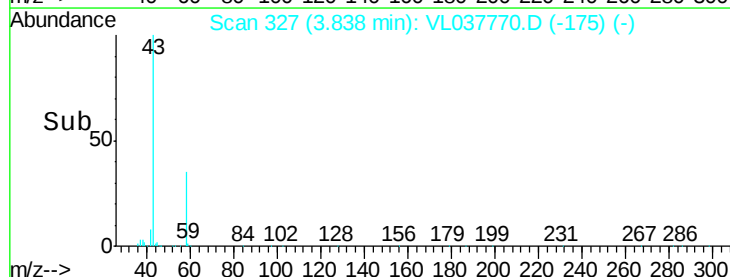
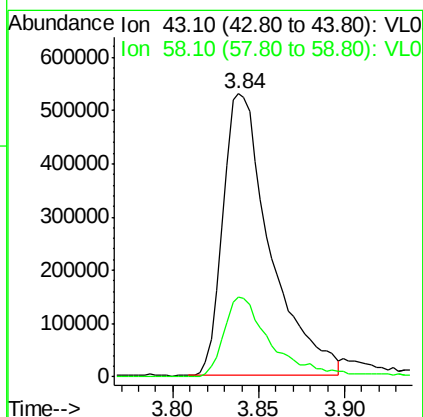
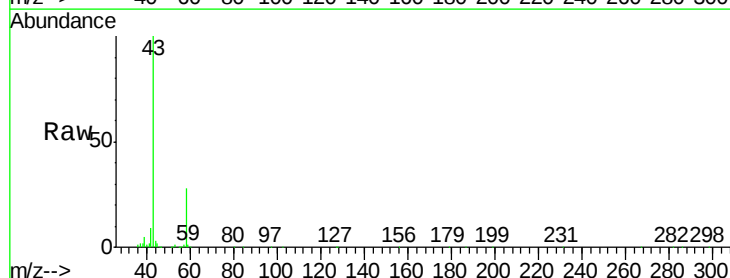
Instrument :
MSVOA_L
ClientSampleId :
C0P23

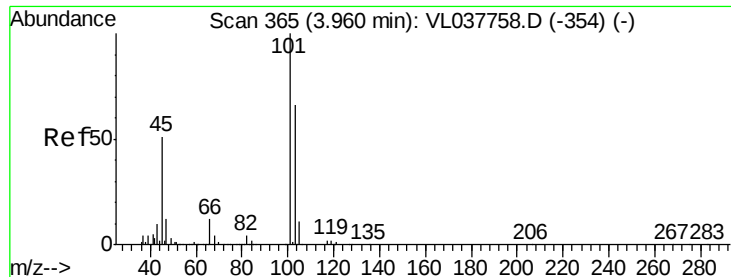
Tgt Ion: 45 Resp: 2446855
Ion Ratio Lower Upper
45 100
46 36.9 20.2 81.0



#15
Acetone
Concen: 8.094 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL037770.D
Acq: 5 Oct 2021 12:44

Tgt Ion: 43 Resp: 1010437
Ion Ratio Lower Upper
43 100
58 29.2 23.0 34.6





#19

Isopropyl Alcohol

Concen: 5.786 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

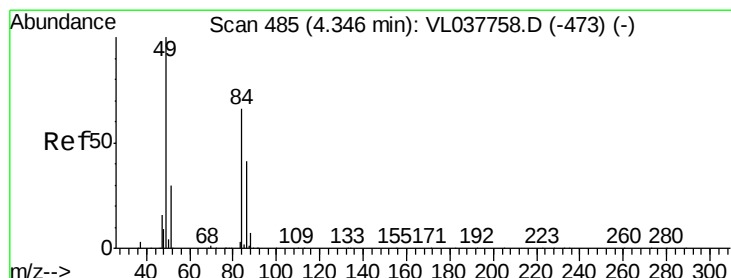
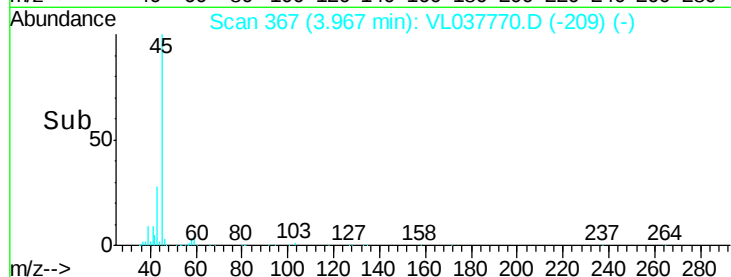
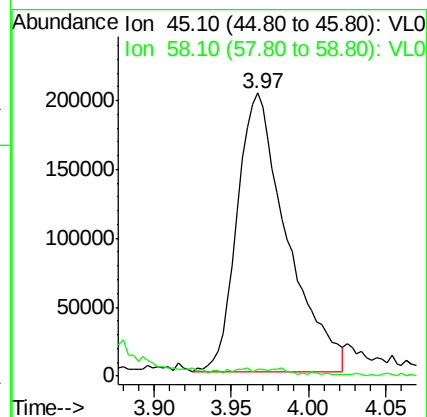
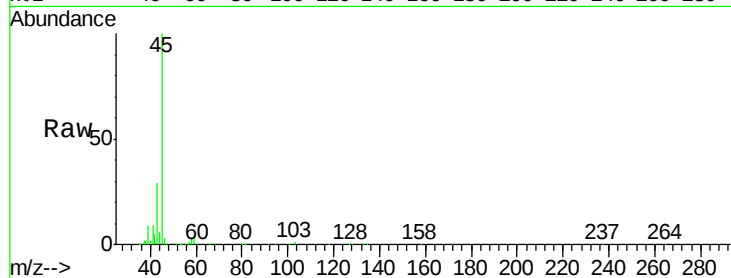
C0P23

Tgt Ion: 45 Resp: 449425

Ion Ratio Lower Upper

45 100

58 3.4 1.1 1.7#



#20

Methylene Chloride

Concen: 28.574 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Tgt Ion: 84 Resp: 1802457

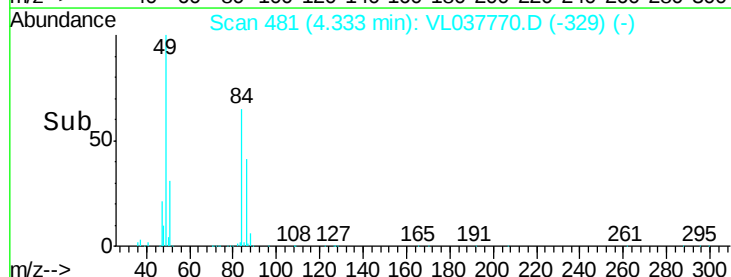
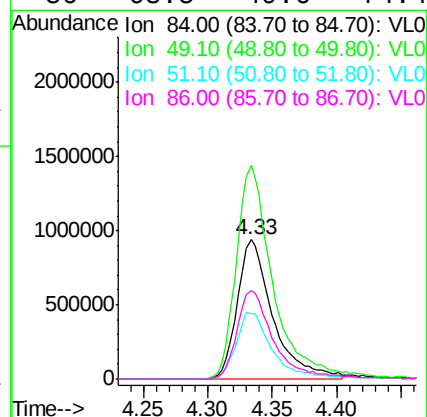
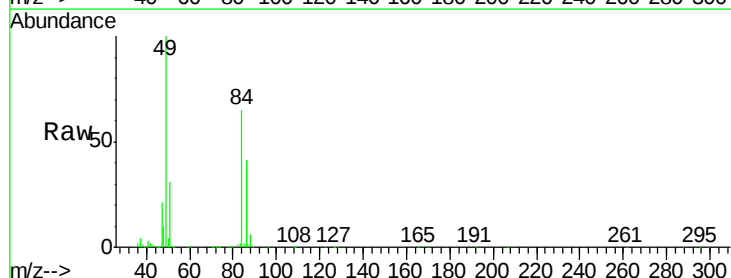
Ion Ratio Lower Upper

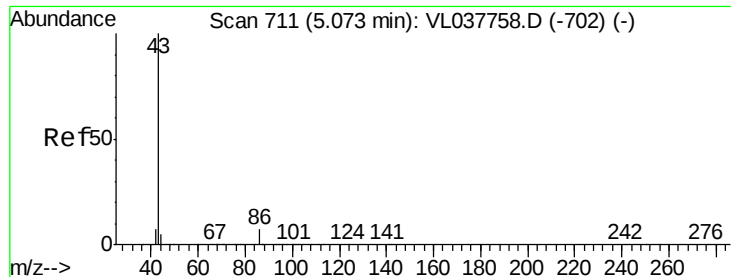
84 100

49 153.1 120.7 181.1

51 46.8 36.2 54.4

86 63.5 49.6 74.4





#23

Vinyl Acetate

Concen: 0.049 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

C0P23

Tgt Ion: 43 Resp: 9178

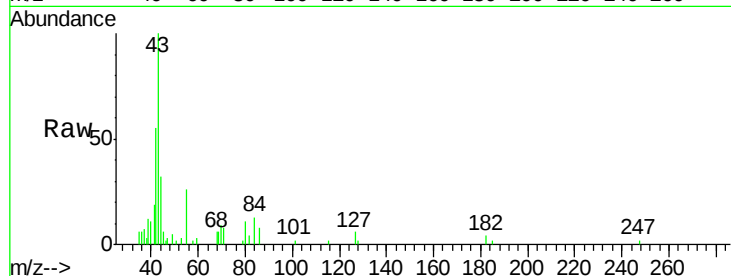
Ion Ratio Lower Upper

43 100

86 14.5 5.0 7.4#

42 70.5 7.4 11.0#

44 5.5 3.8 5.6

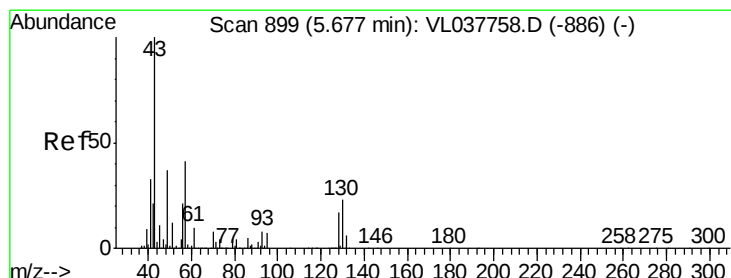
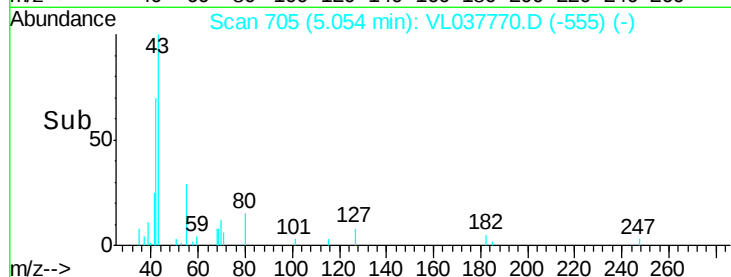
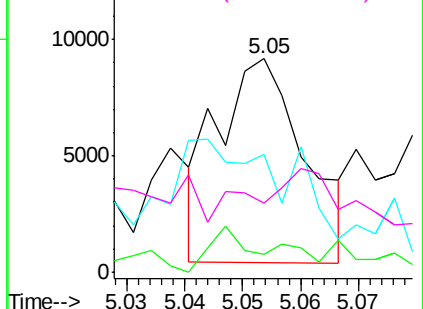


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.505 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Tgt Ion: 43 Resp: 527155

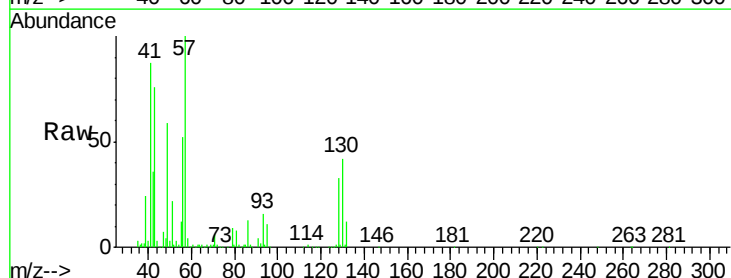
Ion Ratio Lower Upper

43 100

45 1.0 8.1 12.1#

61 0.8 7.5 11.3#

70 1.9 5.9 8.9#

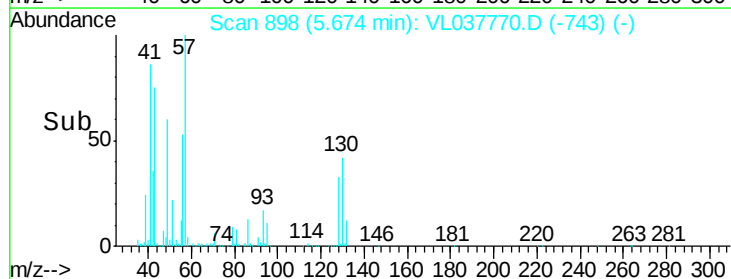
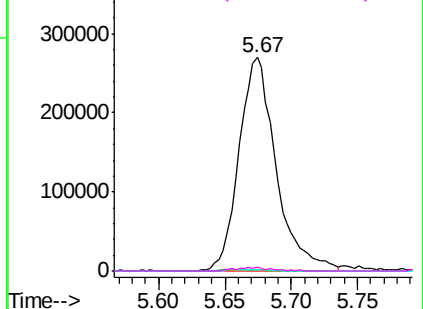


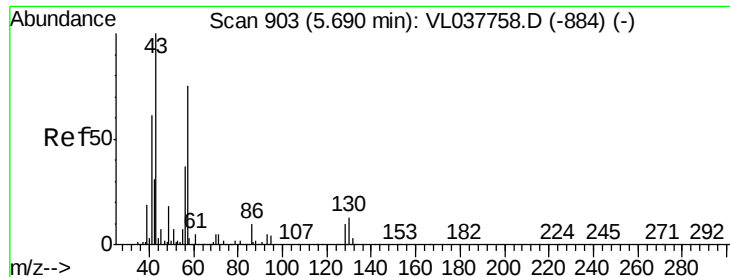
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

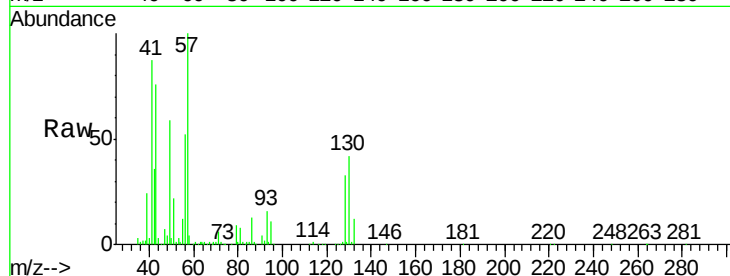




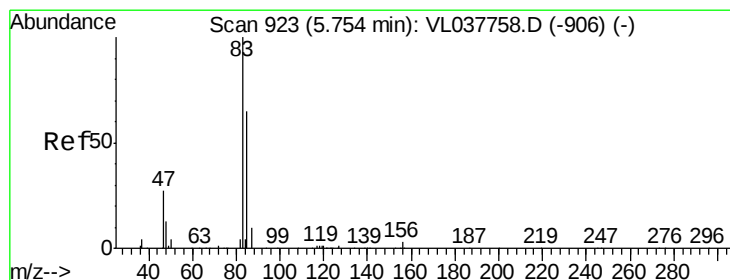
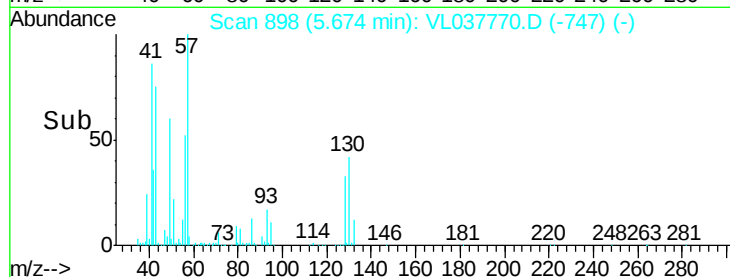
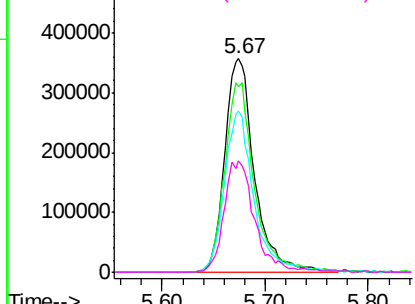
#26
Hexane
Concen: 4.165 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037770.D
Acq: 5 Oct 2021 12:44

Instrument :
MSVOA_L
ClientSampleId :
C0P23

Tgt Ion: 57 Resp: 718554
Ion Ratio Lower Upper
57 100
41 89.9 69.6 104.4
43 74.6 171.4 257.0#
56 54.3 42.0 63.0

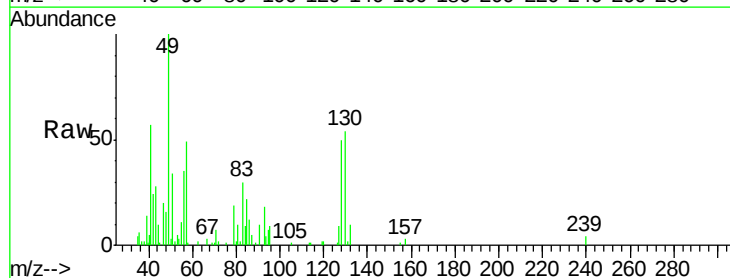


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

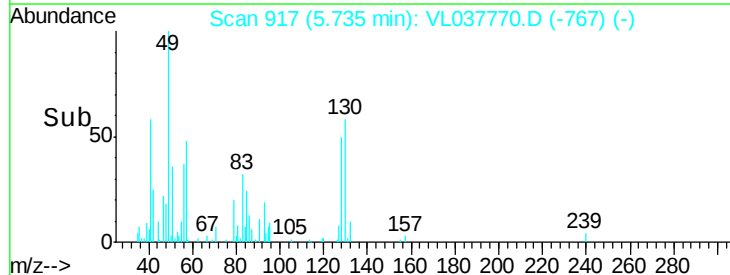
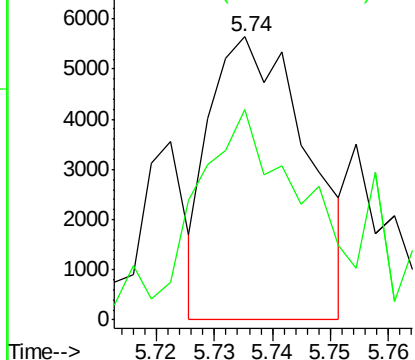


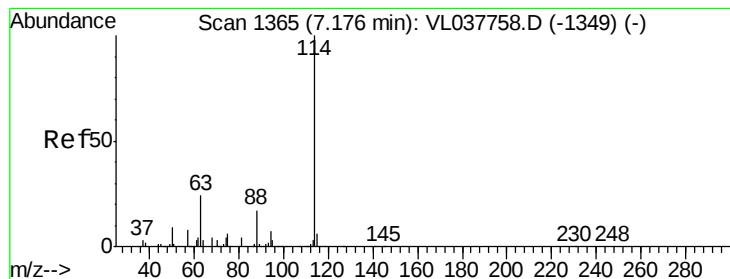
#29
Chloroform
Concen: 0.026 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL037770.D
Acq: 5 Oct 2021 12:44

Tgt Ion: 83 Resp: 6517
Ion Ratio Lower Upper
83 100
85 68.5 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

C0P23

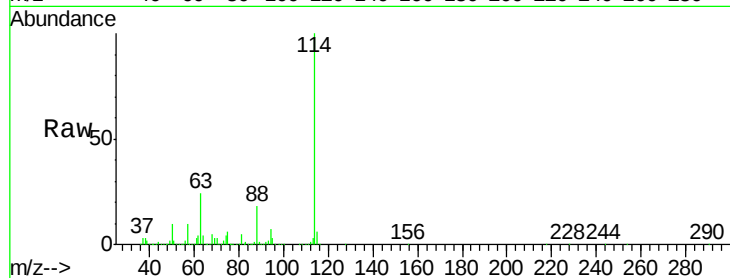
Tgt Ion: 114 Resp: 3928056

Ion Ratio Lower Upper

114 100

63 24.1 19.4 29.2

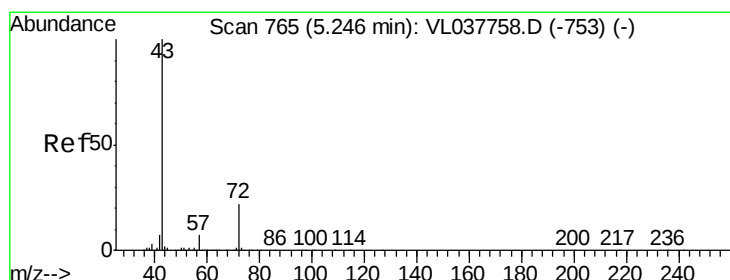
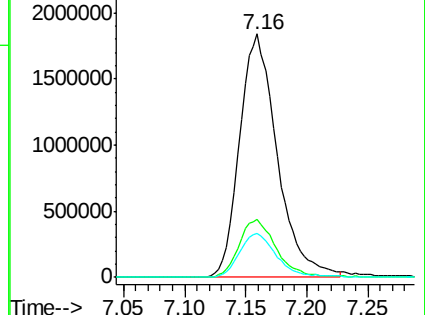
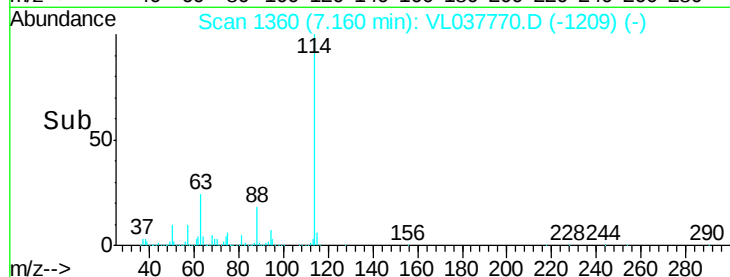
88 18.2 14.4 21.6



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: 0.034 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.02 min

Lab File: VL037770.D

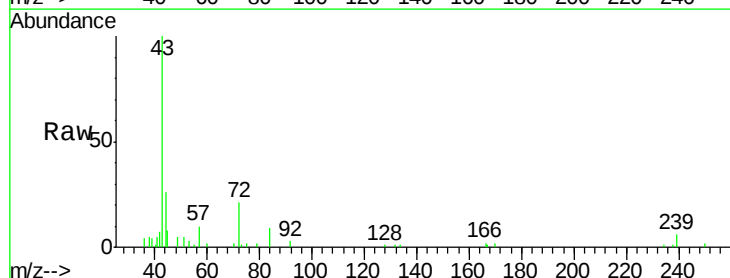
Acq: 5 Oct 2021 12:44

Tgt Ion: 43 Resp: 5434

Ion Ratio Lower Upper

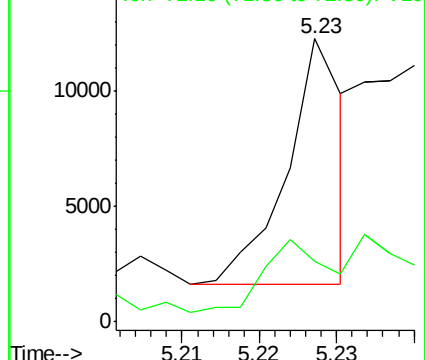
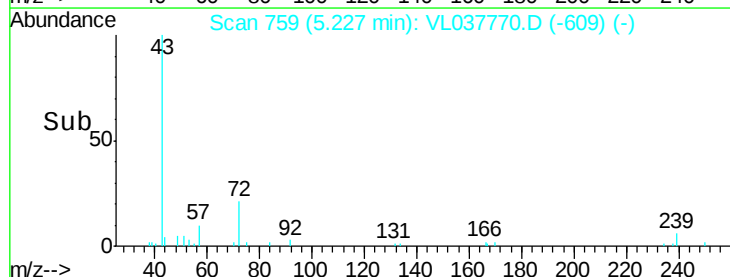
43 100

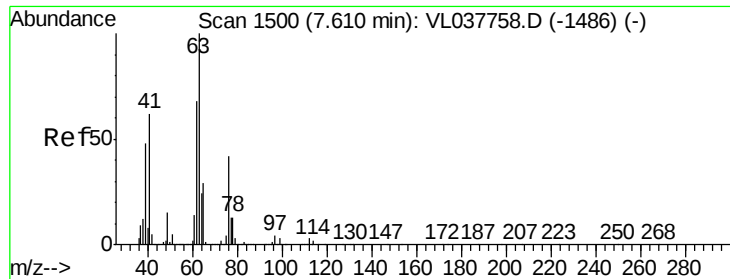
72 145.2 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

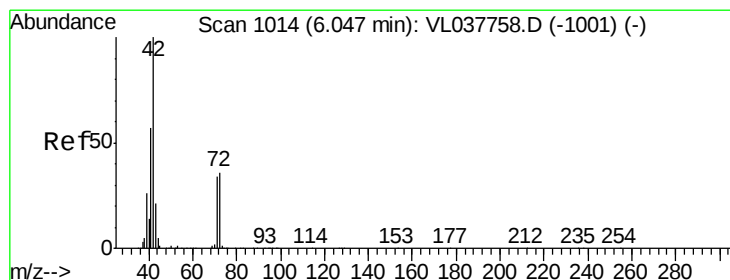
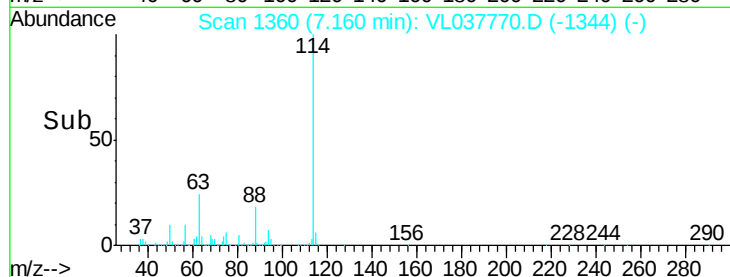
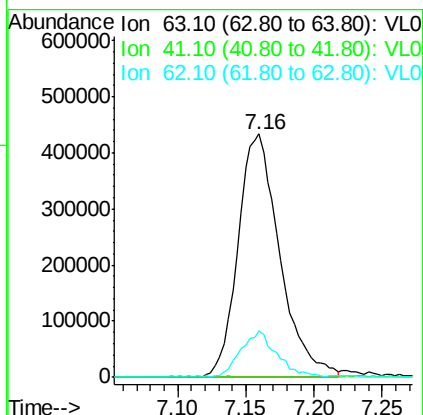
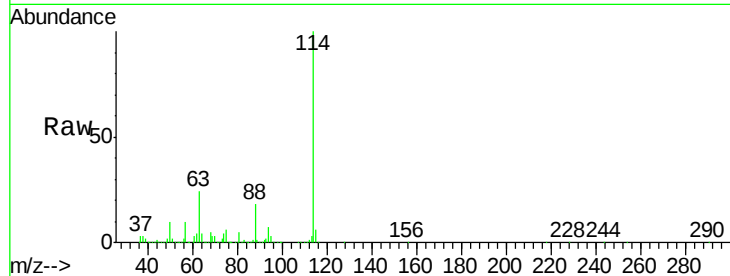




#39
 1,2-Dichloropropane
 Concen: 7.292 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.45 min
 Lab File: VL037770.D
 Acq: 5 Oct 2021 12:44

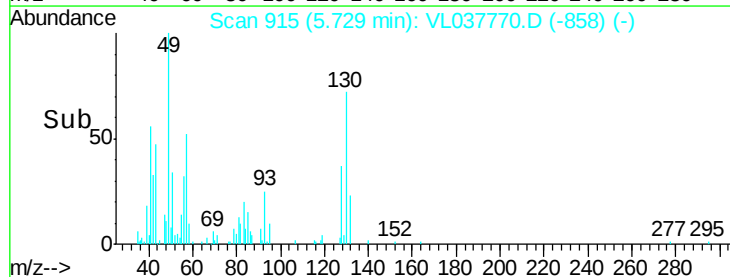
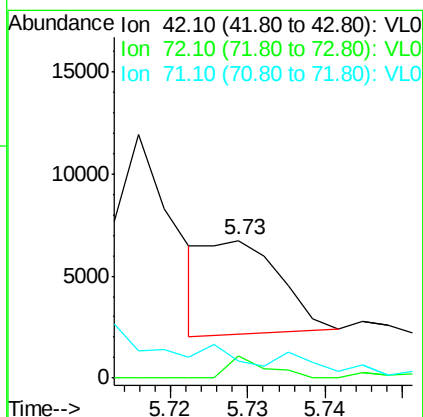
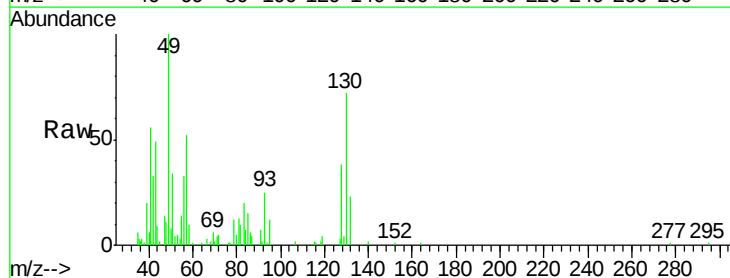
Instrument :
 MSVOA_L
 ClientSampled :
 C0P23

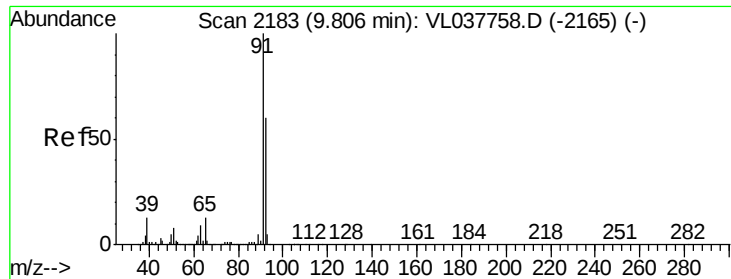
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	18.9	54.6	82.0#



#41
 Tetrahydrofuran
 Concen: 0.040 ppbv
 RT: 5.73 min Scan# 915
 Delta R.T. -0.32 min
 Lab File: VL037770.D
 Acq: 5 Oct 2021 12:44

Tgt Ion	Ratio	Lower	Upper
42	100		
72	18.2	31.9	47.9#
71	0.0	30.3	45.5#





#53

Toluene

Concen: 0.080 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

Instrument :

MSVOA_L

ClientSampleId :

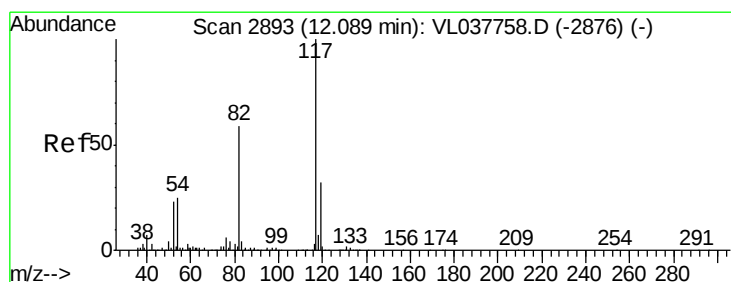
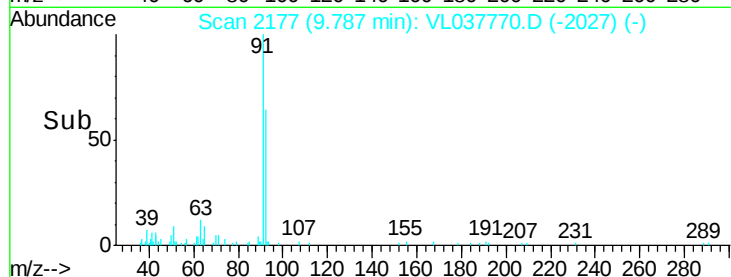
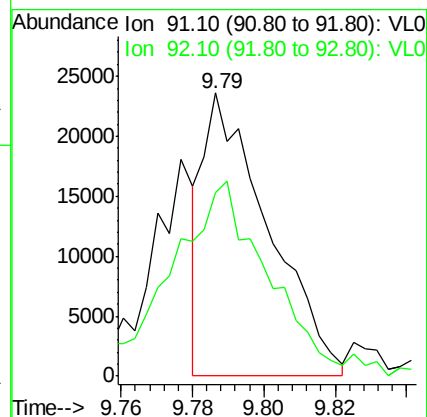
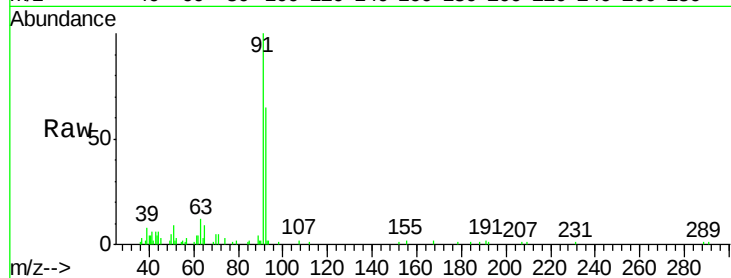
C0P23

Tgt Ion: 91 Resp: 29792

Ion Ratio Lower Upper

91 100

92 106.1 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL037770.D

Acq: 5 Oct 2021 12:44

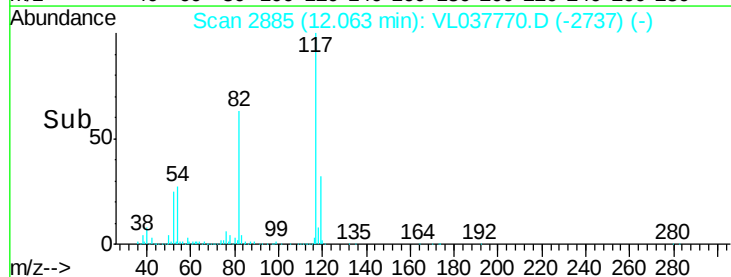
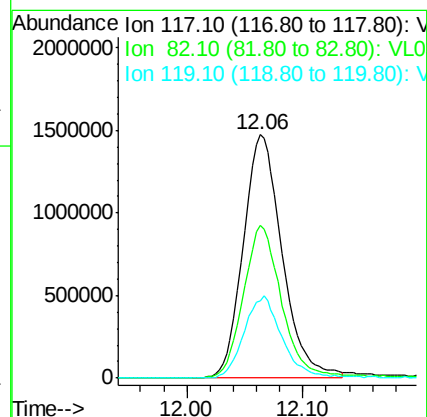
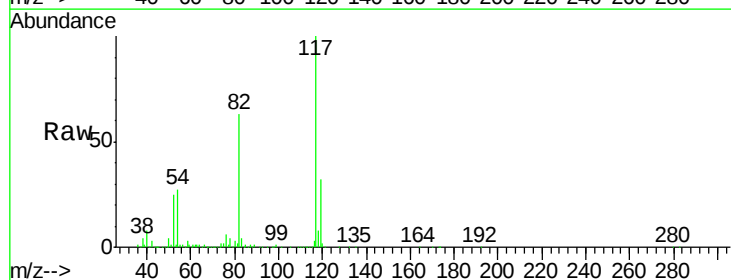
Tgt Ion: 117 Resp: 3449701

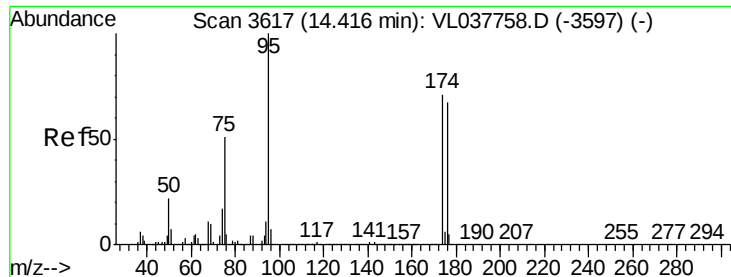
Ion Ratio Lower Upper

117 100

82 63.7 52.2 78.2

119 33.6 26.0 39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.887 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.03 min
 Lab File: VL037770.D
 Acq: 5 Oct 2021 12:44

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P23

Tgt Ion: 95 Resp: 2385068
 Ion Ratio Lower Upper
 95 100
 174 74.1 57.8 86.6
 175 5.6 4.7 7.1

