

Data File : VL037824.D

Acq On : 8 Oct 2021 9:42

Operator : SY/AP

Sample : VIBLK

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Oct 09 18:05:48 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	1277054	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3772060	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3117534	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2244789	10.30	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds

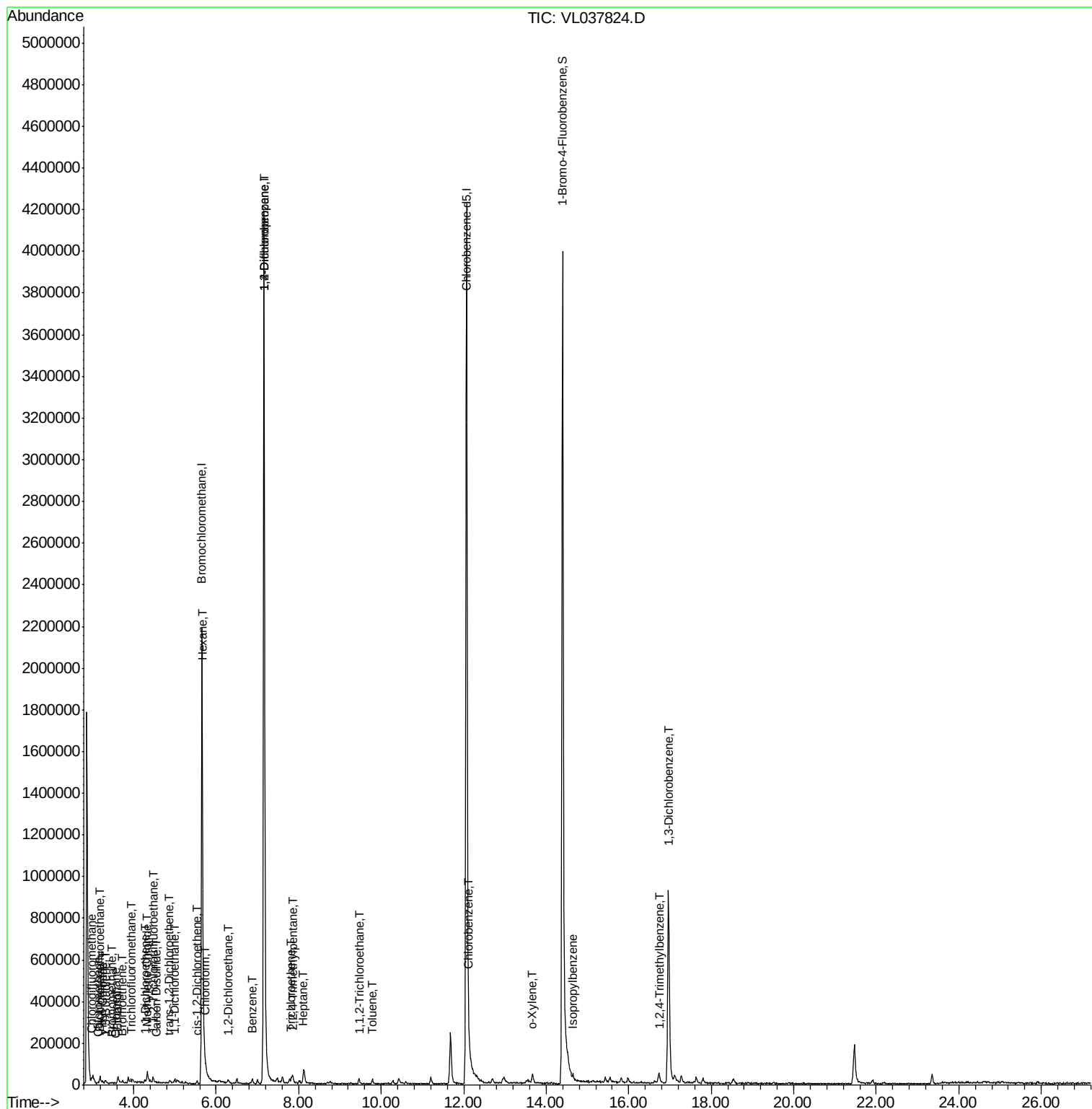
						Qvalue
3) Chlorodifluoromethane	2.99	51	20770	0.085	ppbv	97
4) Chloromethane	3.13	50	4546	0.051	ppbv #	84
5) Vinyl Chloride	3.25	62	1887	0.023	ppbv	98
6) Bromomethane	3.47	94	1134	0.025	ppbv #	39
7) Chloroethane	3.55	64	633	0.021	ppbv	93
8) Dichlorotetrafluoroethane	3.18	85	5967	0.030	ppbv #	1
10) Heptane	8.10	43	4442	0.022	ppbv #	1
11) Trichlorofluoromethane	3.94	101	4973	0.027	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	6902	0.050	ppbv #	70
13) Ethanol	3.61	45	13142	1.780	ppbv	78
14) Bromoethene	3.73	108	3361	0.055	ppbv #	78
16) 1,3-Butadiene	3.32	39	2344	0.028	ppbv #	1
18) 1,1-Dichloroethene	4.28	96	2514	0.040	ppbv #	41
20) Methylene Chloride	4.34	84	8969	0.155	ppbv #	58
22) trans-1,2-Dichloroethene	4.87	96	1591	0.025	ppbv #	1
24) 1,1-Dichloroethane	5.00	63	6764	0.054	ppbv #	96
26) Hexane	5.67	57	4548	0.029	ppbv #	1
27) Carbon Disulfide	4.54	76	3877	0.028	ppbv #	1
29) Chloroform	5.74	83	5074	0.022	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	5715	0.040	ppbv #	71
36) Benzene	6.87	78	12599	0.039	ppbv #	79
37) 1,2-Dichloroethane	6.29	62	3836	0.025	ppbv #	78
38) Trichloroethene	7.82	130	7752	0.061	ppbv #	84
39) 1,2-Dichloropropane	7.16	63	887647	7.325	ppbv #	27
44) 2,2,4-Trimethylpentane	7.85	57	17787	0.033	ppbv #	32
47) 1,1,2-Trichloroethane	9.46	97	4091	0.031	ppbv #	70
53) Toluene	9.78	91	8130	0.023	ppbv #	20
57) Chlorobenzene	12.13	112	6293	0.025	ppbv #	30
60) o-Xylene	13.66	91	8453	0.025	ppbv #	30
62) Isopropylbenzene	14.64	105	9623	0.020	ppbv #	3
74) 1,2,4-Trimethylbenzene	16.74	105	7844	0.021	ppbv #	68
75) 1,3-Dichlorobenzene	16.97	146	4637	0.020	ppbv #	1

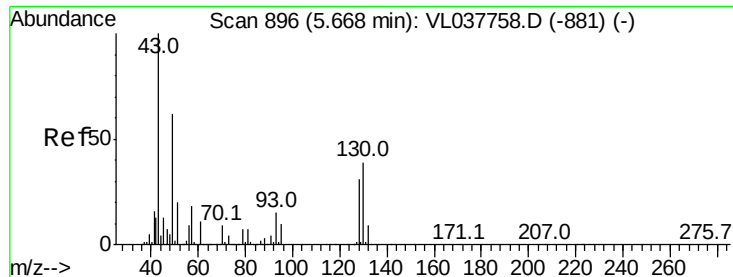
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL037824.D
Acq On : 8 Oct 2021 9:42
Operator : SY/AP
Sample : VIBLK
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Oct 09 18:05:48 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

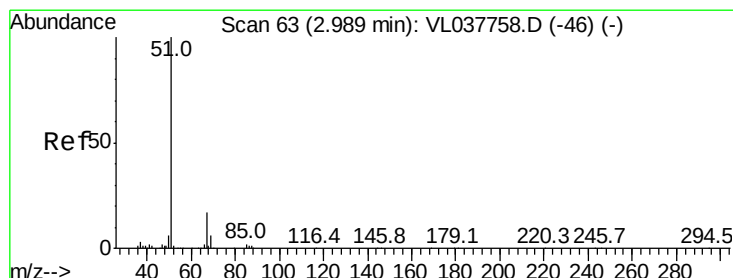
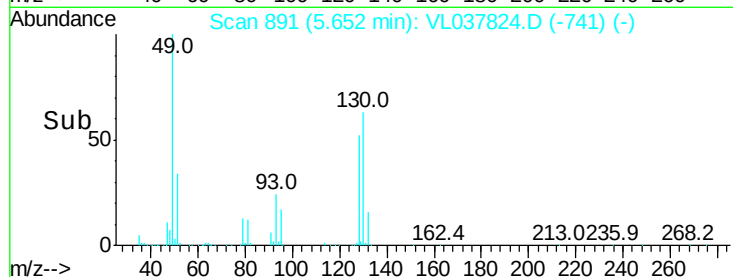
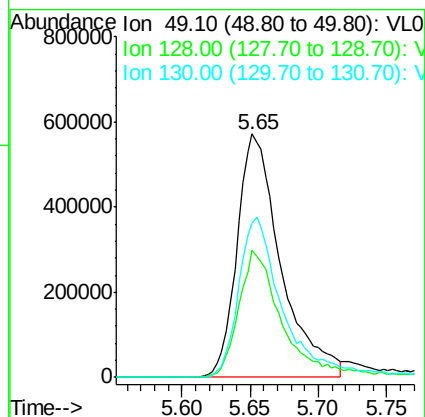
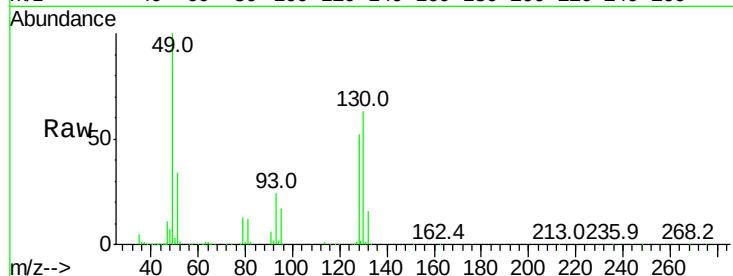
Tgt Ion: 49 Resp: 1277054

Ion Ratio Lower Upper

49 100

128 54.0 27.1 81.3

130 68.7 33.2 99.6



#3

Chlorodifluoromethane

Concen: 0.085 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037824.D

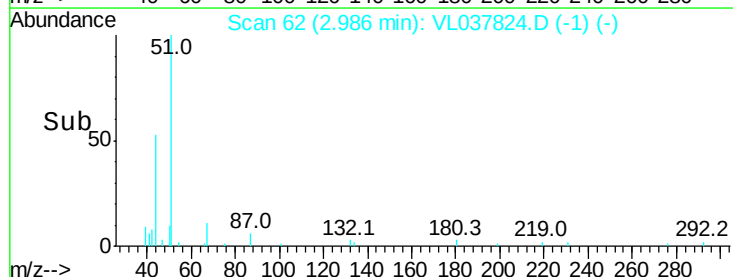
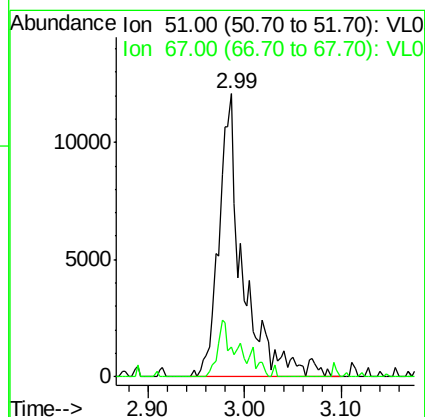
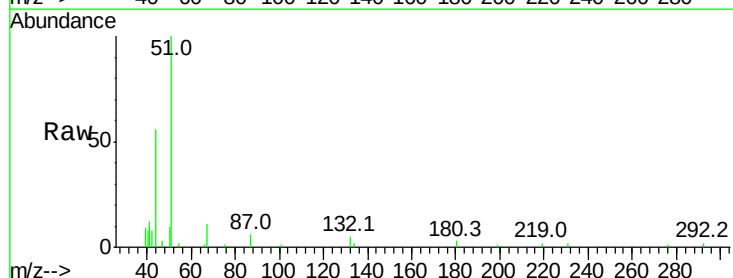
Acq: 8 Oct 2021 9:42

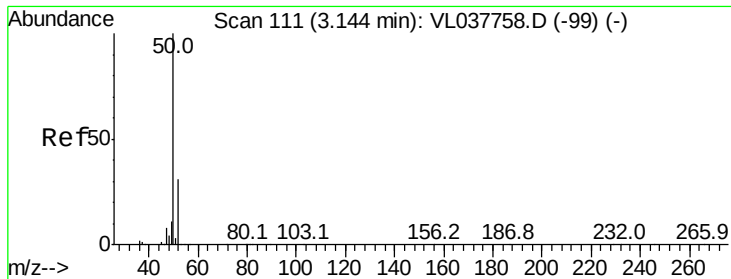
Tgt Ion: 51 Resp: 20770

Ion Ratio Lower Upper

51 100

67 18.0 13.5 20.3





#4

Chloromethane

Concen: 0.051 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

Instrument :

MSVOA_L

ClientSampleId :

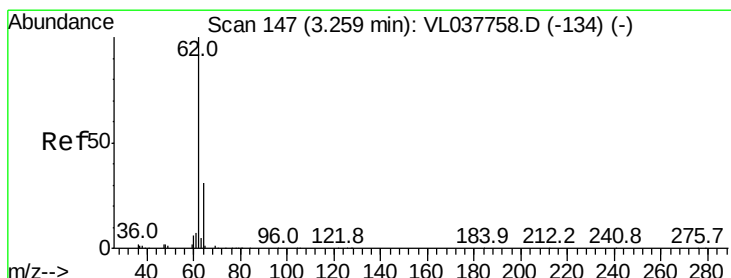
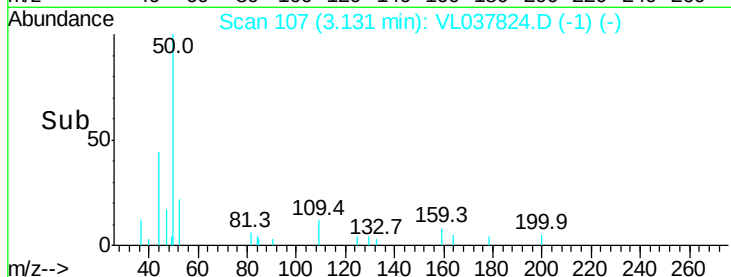
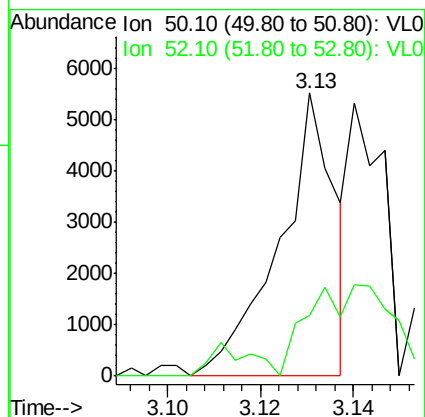
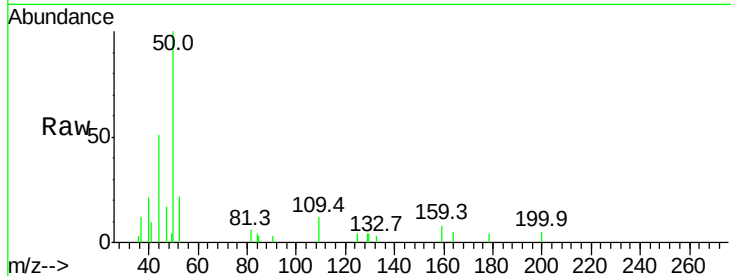
VIBLK

Tgt Ion: 50 Resp: 4546

Ion Ratio Lower Upper

50 100

52 21.5 24.4 36.6#



#5

Vinyl Chloride

Concen: 0.023 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL037824.D

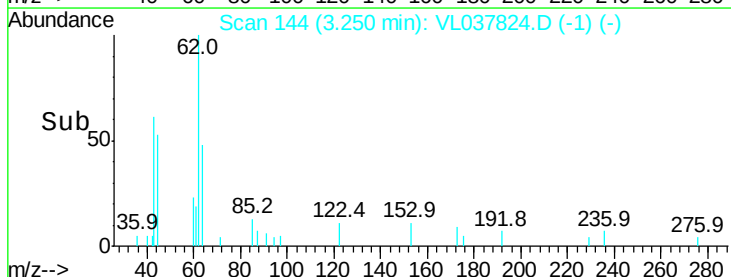
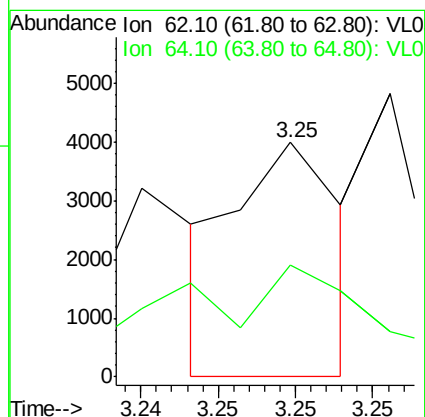
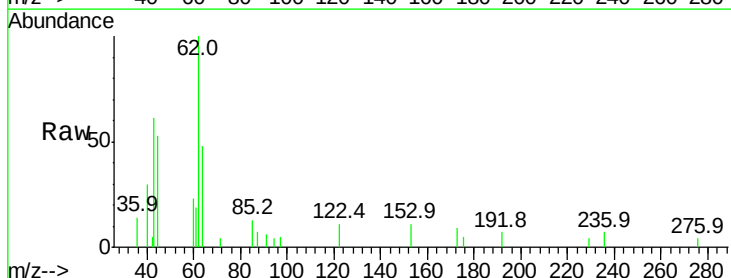
Acq: 8 Oct 2021 9:42

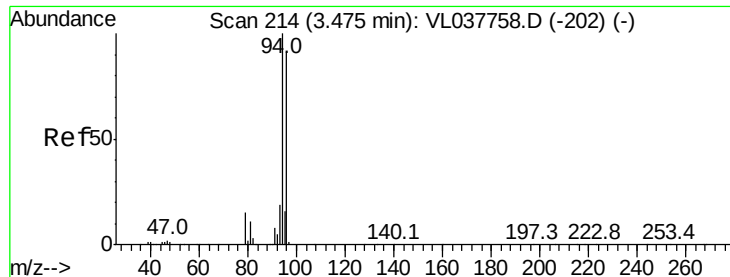
Tgt Ion: 62 Resp: 1887

Ion Ratio Lower Upper

62 100

64 32.0 24.9 37.3





#6

Bromomethane

Concen: 0.025 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

Instrument :

MSVOA_L

ClientSampleId :

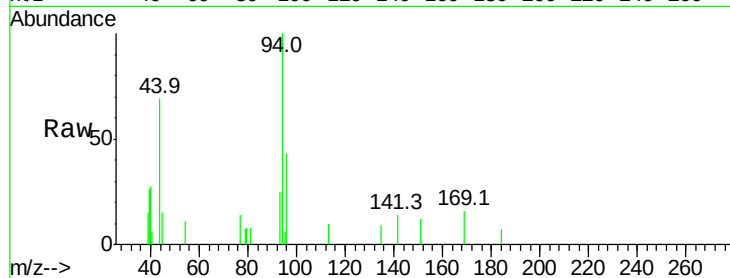
VIBLK

Tgt Ion: 94 Resp: 1134

Ion Ratio Lower Upper

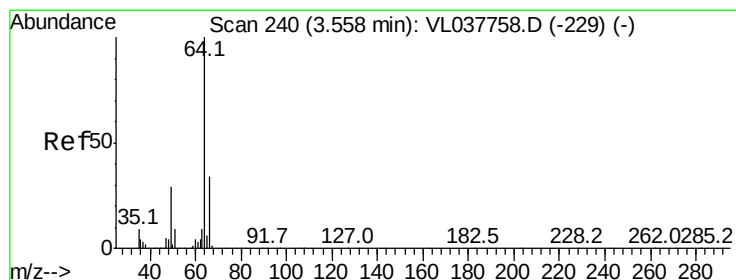
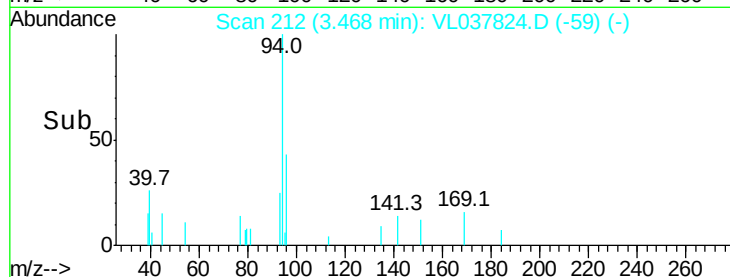
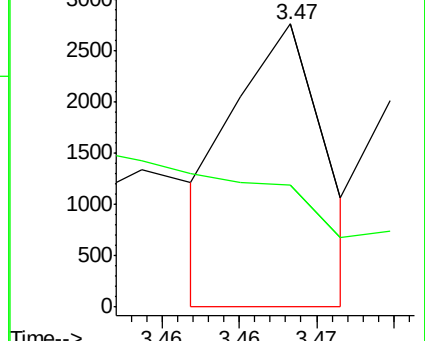
94 100

96 33.3 72.5 108.7#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.021 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL037824.D

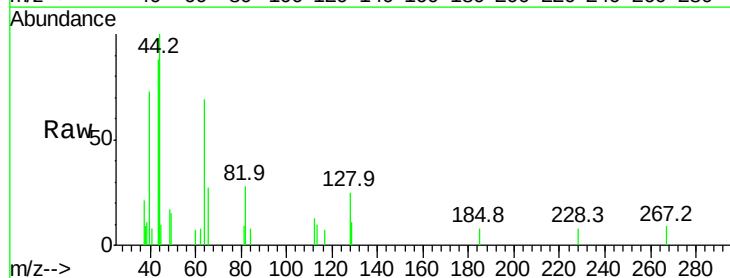
Acq: 8 Oct 2021 9:42

Tgt Ion: 64 Resp: 633

Ion Ratio Lower Upper

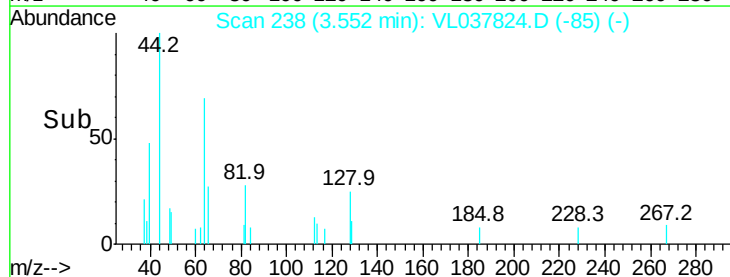
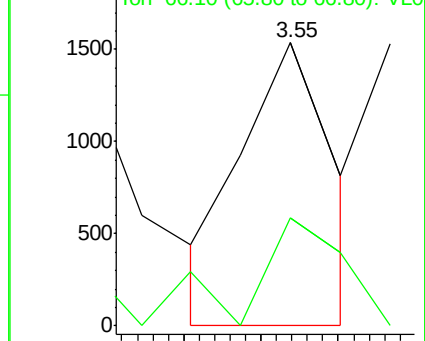
64 100

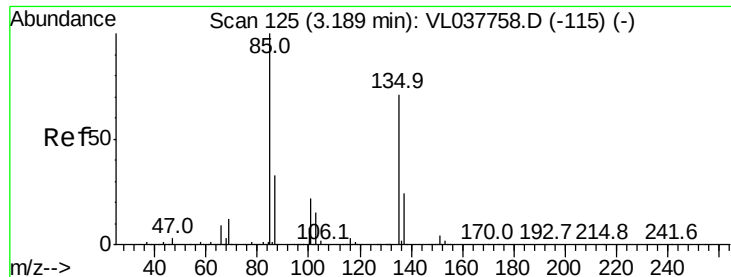
66 38.3 27.5 41.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.030 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

Instrument :

MSVOA_L

ClientSampleId :

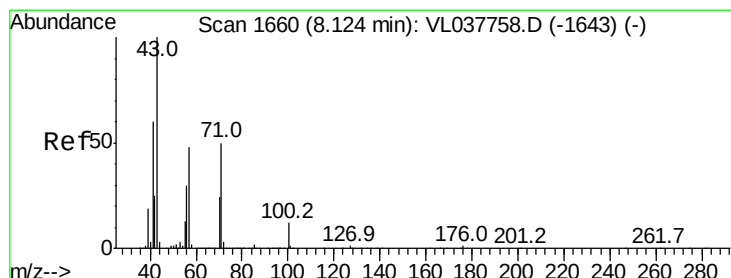
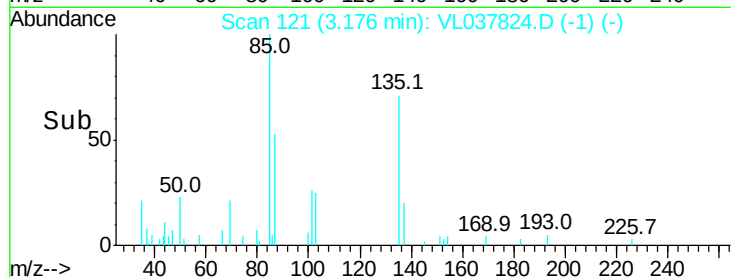
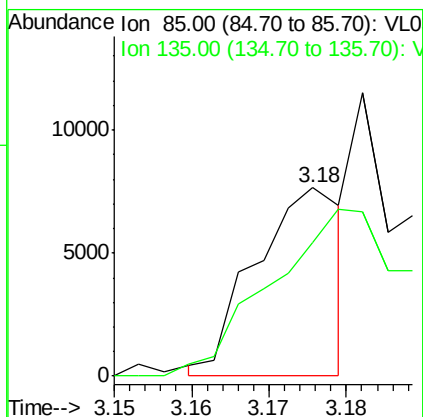
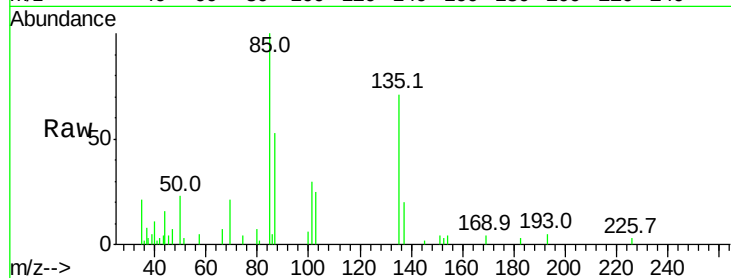
VIBLK

Tgt Ion: 85 Resp: 5967

Ion Ratio Lower Upper

85 100

135 182.7 59.5 89.3#



#10

Heptane

Concen: 0.022 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL037824.D

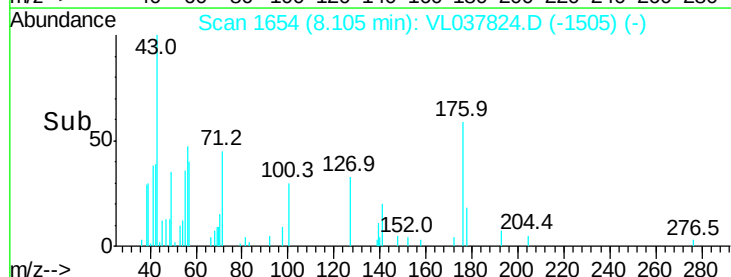
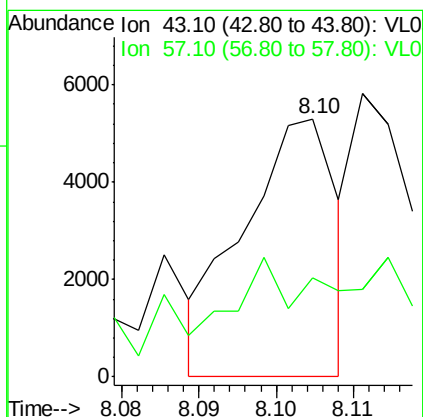
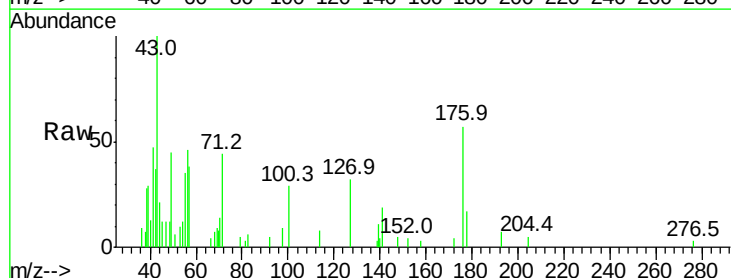
Acq: 8 Oct 2021 9:42

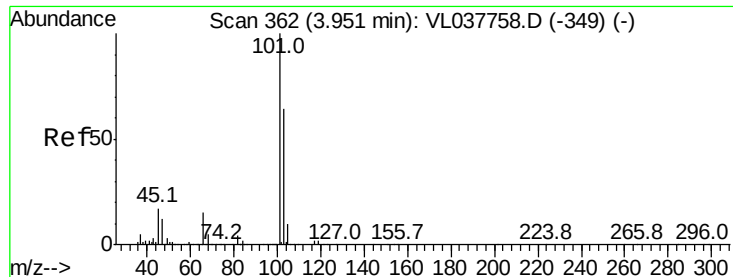
Tgt Ion: 43 Resp: 4442

Ion Ratio Lower Upper

43 100

57 140.7 40.0 60.0#





#11

Trichlorofluoromethane

Concen: 0.027 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

Instrument :

MSVOA_L

ClientSampleId :

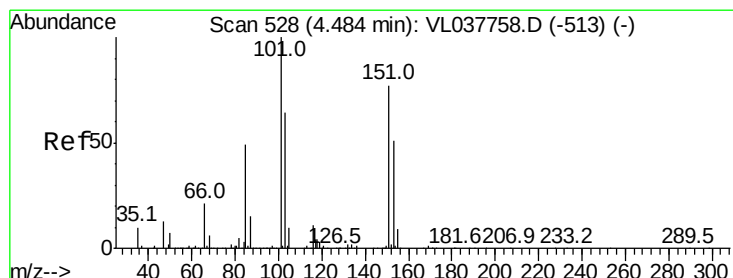
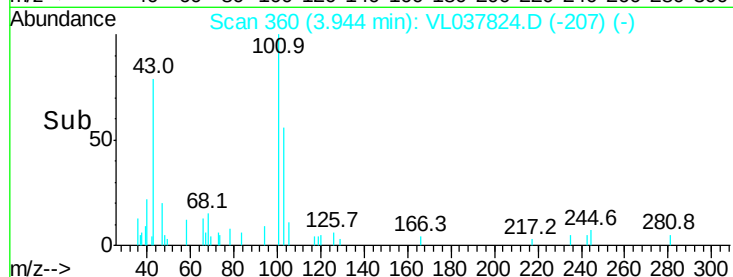
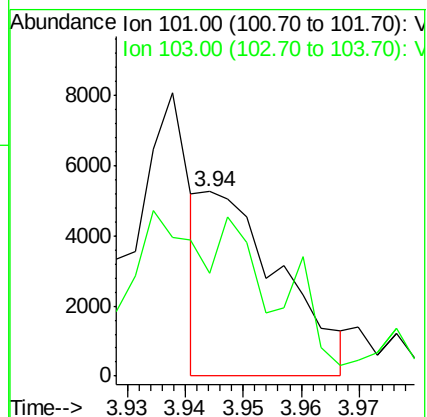
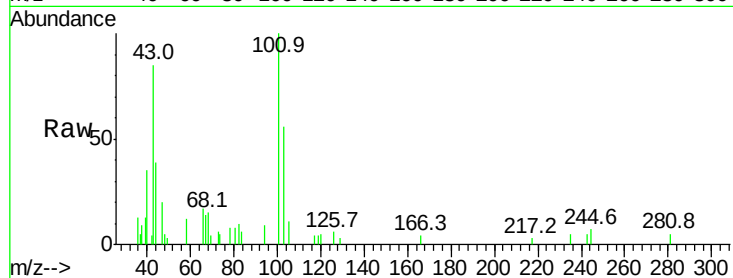
VIBLK

Tgt Ion:101 Resp: 4973

Ion Ratio Lower Upper

101 100

103 66.5 51.5 77.3



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.050 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL037824.D

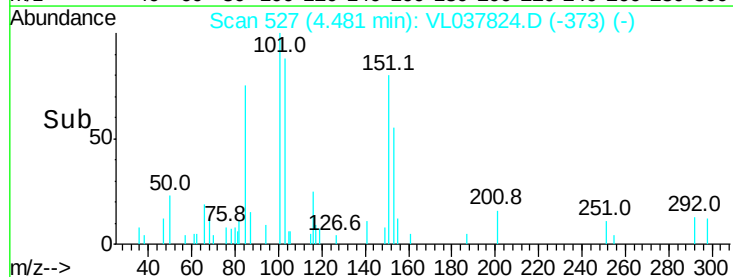
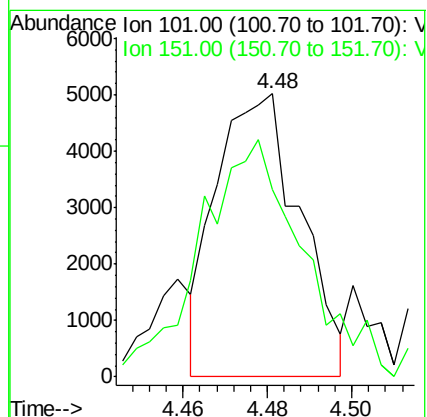
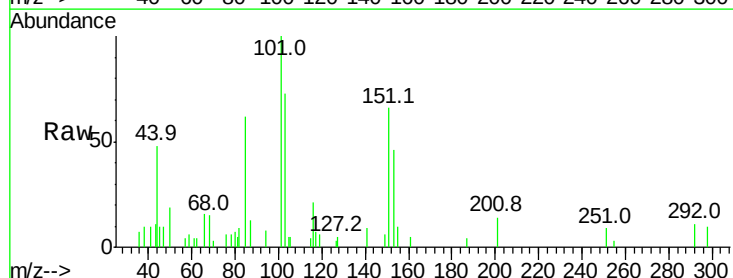
Acq: 8 Oct 2021 9:42

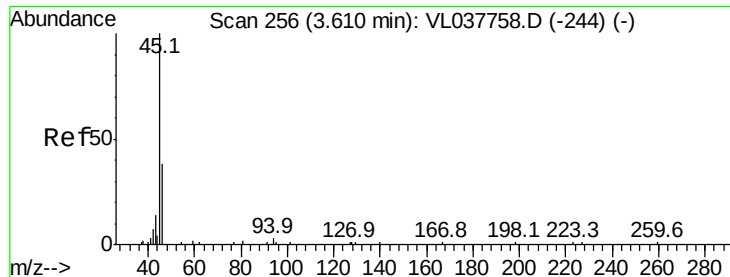
Tgt Ion:101 Resp: 6902

Ion Ratio Lower Upper

101 100

151 104.5 62.9 94.3#





#13

Ethanol

Concen: 1.780 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

Instrument :

MSVOA_L

ClientSampleId :

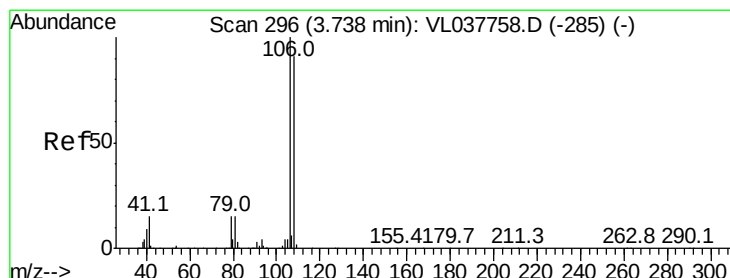
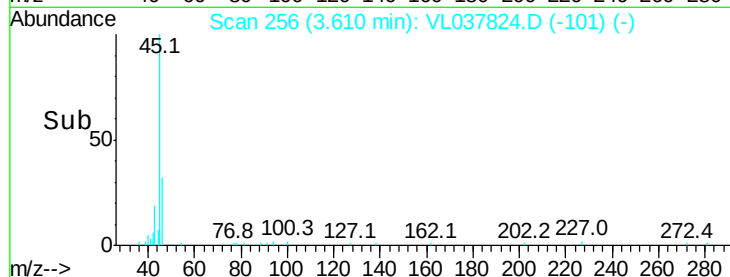
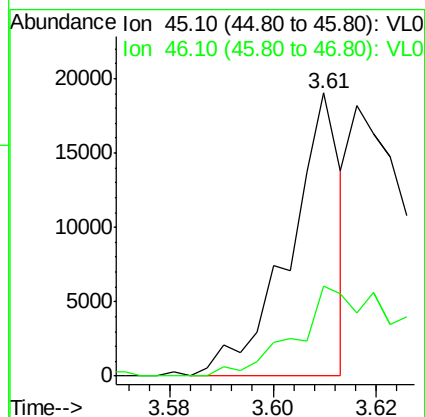
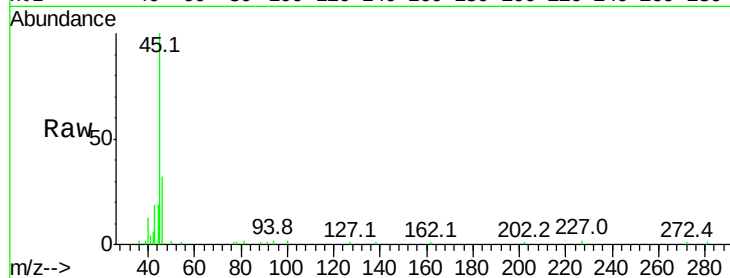
VIBLK

Tgt Ion: 45 Resp: 13142

Ion Ratio Lower Upper

45 100

46 65.6 20.2 81.0



#14

Bromoethene

Concen: 0.055 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.01 min

Lab File: VL037824.D

Acq: 8 Oct 2021 9:42

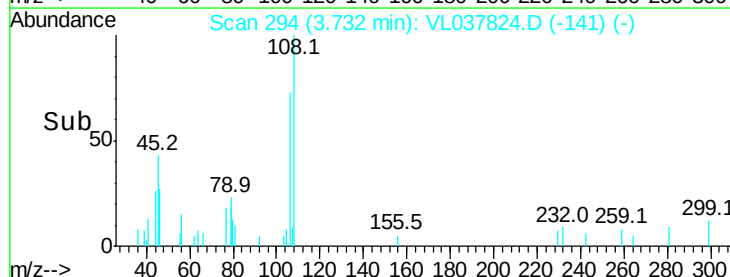
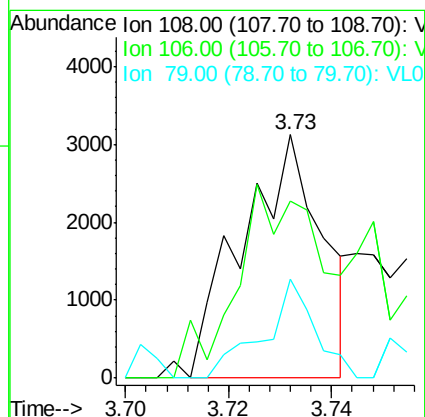
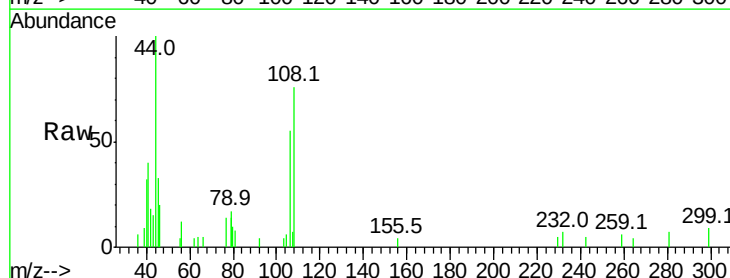
Tgt Ion: 108 Resp: 3361

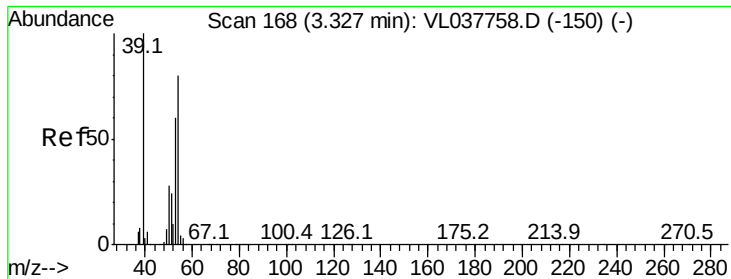
Ion Ratio Lower Upper

108 100

106 135.7 91.9 137.9

79 36.2 13.9 20.9#

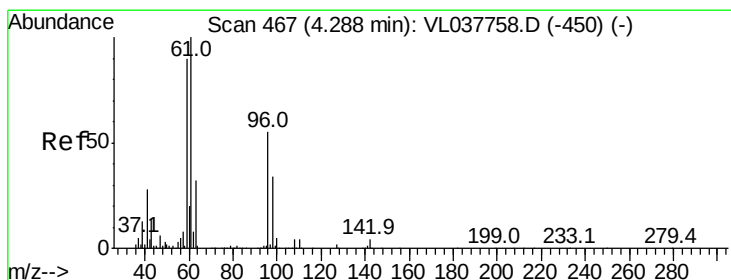
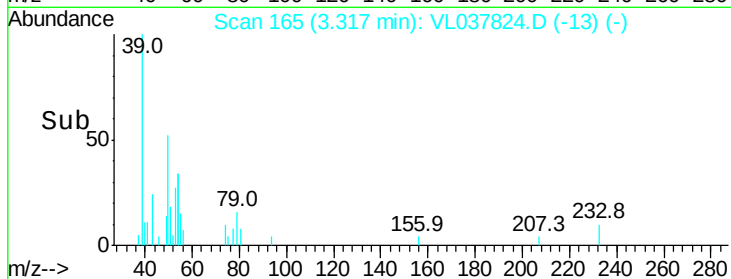
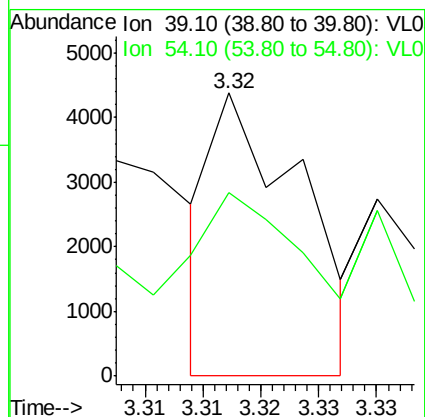
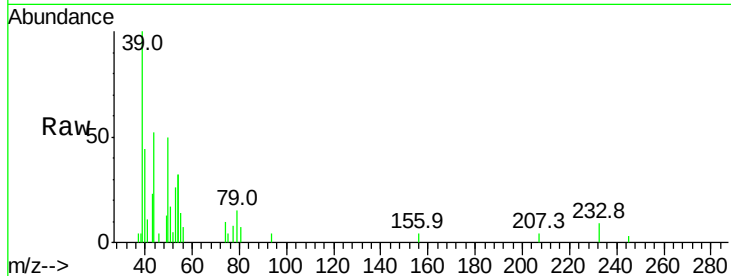




#16
 1,3-Butadiene
 Concen: 0.028 ppbv
 RT: 3.32 min Scan# 165
 Delta R.T. -0.01 min
 Lab File: VL037824.D
 Acq: 8 Oct 2021 9:42

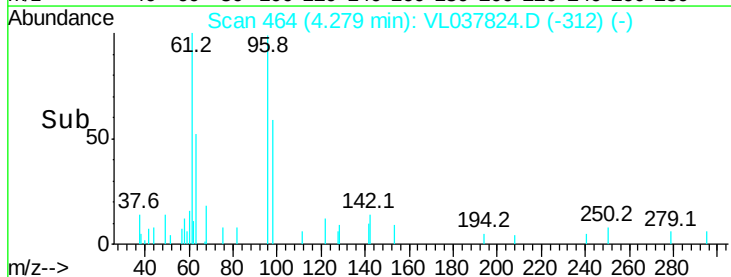
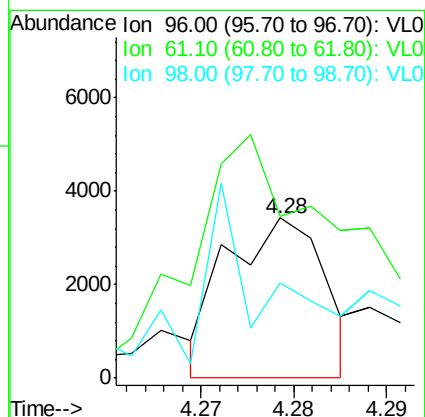
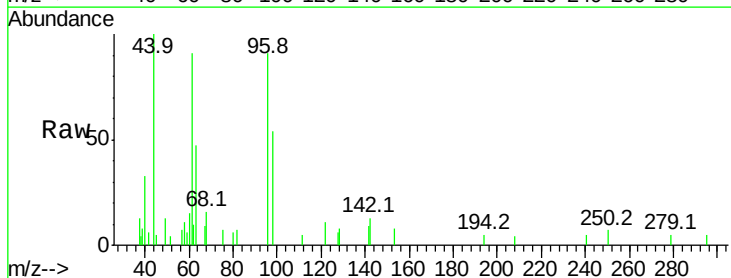
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

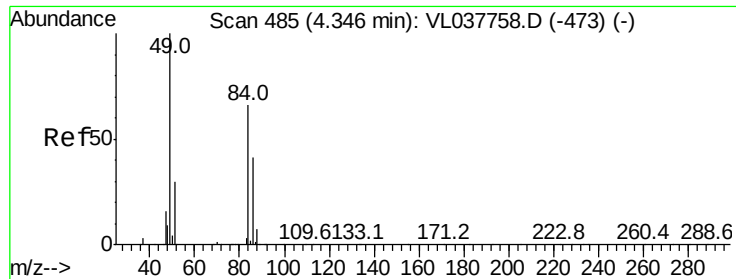
Tgt Ion: 39 Resp: 2344
 Ion Ratio Lower Upper
 39 100
 54 215.0 61.7 92.5#



#18
 1,1-Dichloroethene
 Concen: 0.040 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. -0.01 min
 Lab File: VL037824.D
 Acq: 8 Oct 2021 9:42

Tgt Ion: 96 Resp: 2514
 Ion Ratio Lower Upper
 96 100
 61 71.0 146.2 219.4#
 98 65.3 50.0 75.0

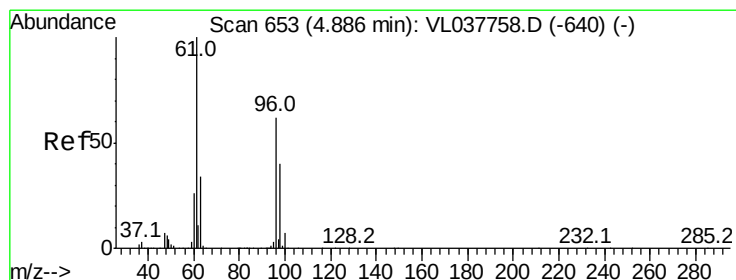
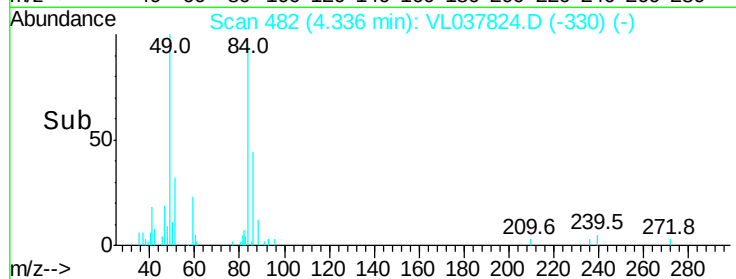
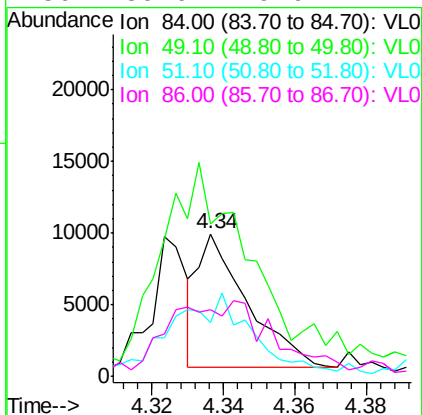
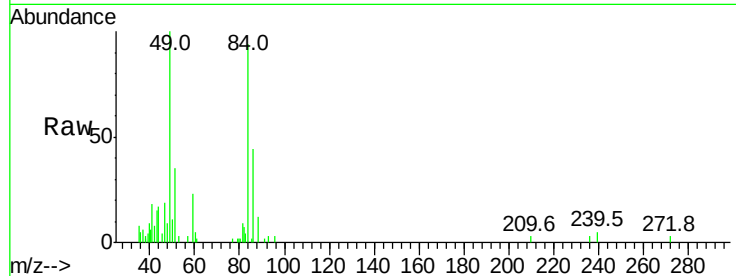




#20
Methylene Chloride
Concen: 0.155 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037824.D
Acq: 8 Oct 2021 9:42

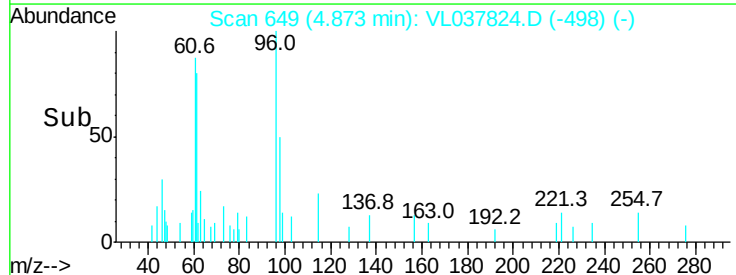
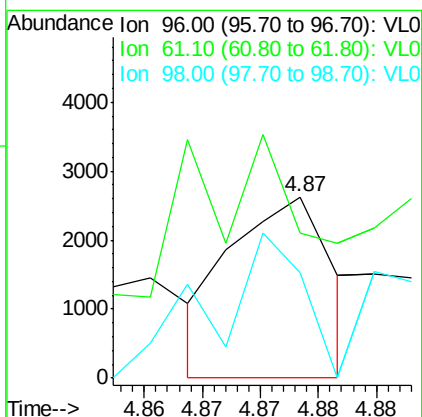
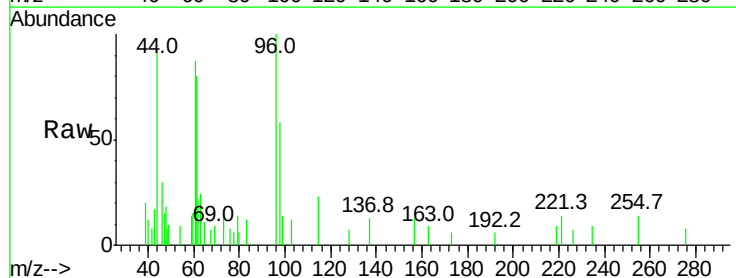
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

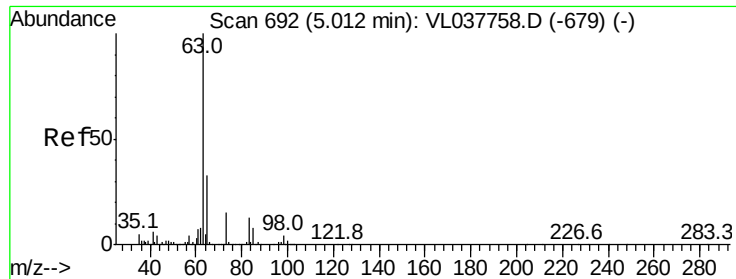
Tgt Ion:	84	Resp:	8969
Ion	Ratio	Lower	Upper
84	100		
49	80.2	120.7	181.1#
51	36.6	36.2	54.4
86	39.6	49.6	74.4#



#22
trans-1,2-Dichloroethene
Concen: 0.025 ppbv
RT: 4.87 min Scan# 649
Delta R.T. -0.01 min
Lab File: VL037824.D
Acq: 8 Oct 2021 9:42

Tgt Ion:	96	Resp:	1591
Ion	Ratio	Lower	Upper
96	100		
61	0.0	129.0	193.6#
98	98.5	51.7	77.5#

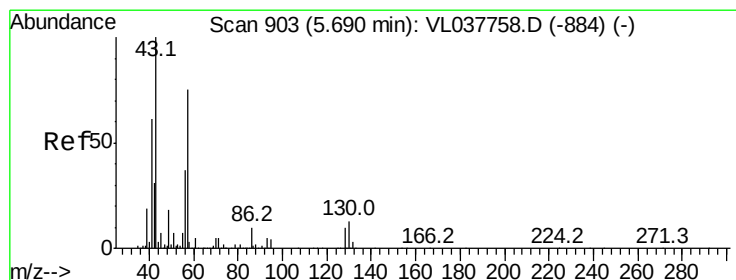
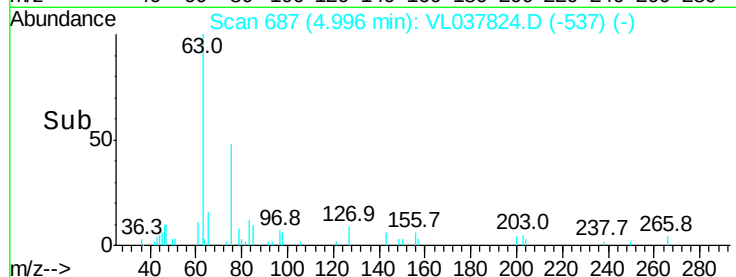
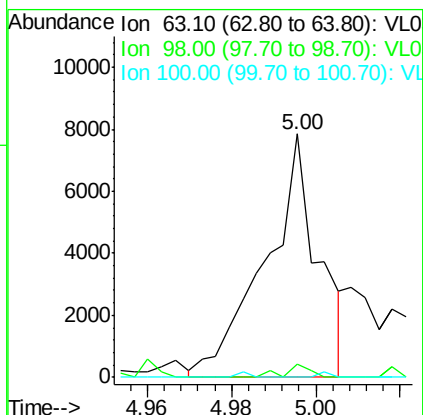
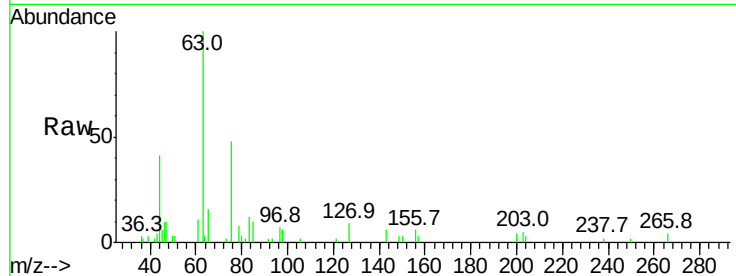




#24
1,1-Dichloroethane
Concen: 0.054 ppbv
RT: 5.00 min Scan# 687
Delta R.T. -0.02 min
Lab File: VL037824.D
Acq: 8 Oct 2021 9:42

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 63 Resp: 6764
Ion Ratio Lower Upper
63 100
98 5.7 2.3 6.9
100 0.0 1.1 3.1#



#26
Hexane
Concen: 0.029 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL037824.D
Acq: 8 Oct 2021 9:42

Tgt Ion: 57 Resp: 4548
Ion Ratio Lower Upper
57 100
41 302.6 69.6 104.4#
43 0.0 171.4 257.0#
56 0.0 42.0 63.0#

