

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038172.D
 Acq On : 14 Dec 2021 18:45
 Operator : SY/AP
 Sample : M5045-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 04:57:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1068743	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2793149	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.03	117	2438960	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.36	95	1873937	10.65	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

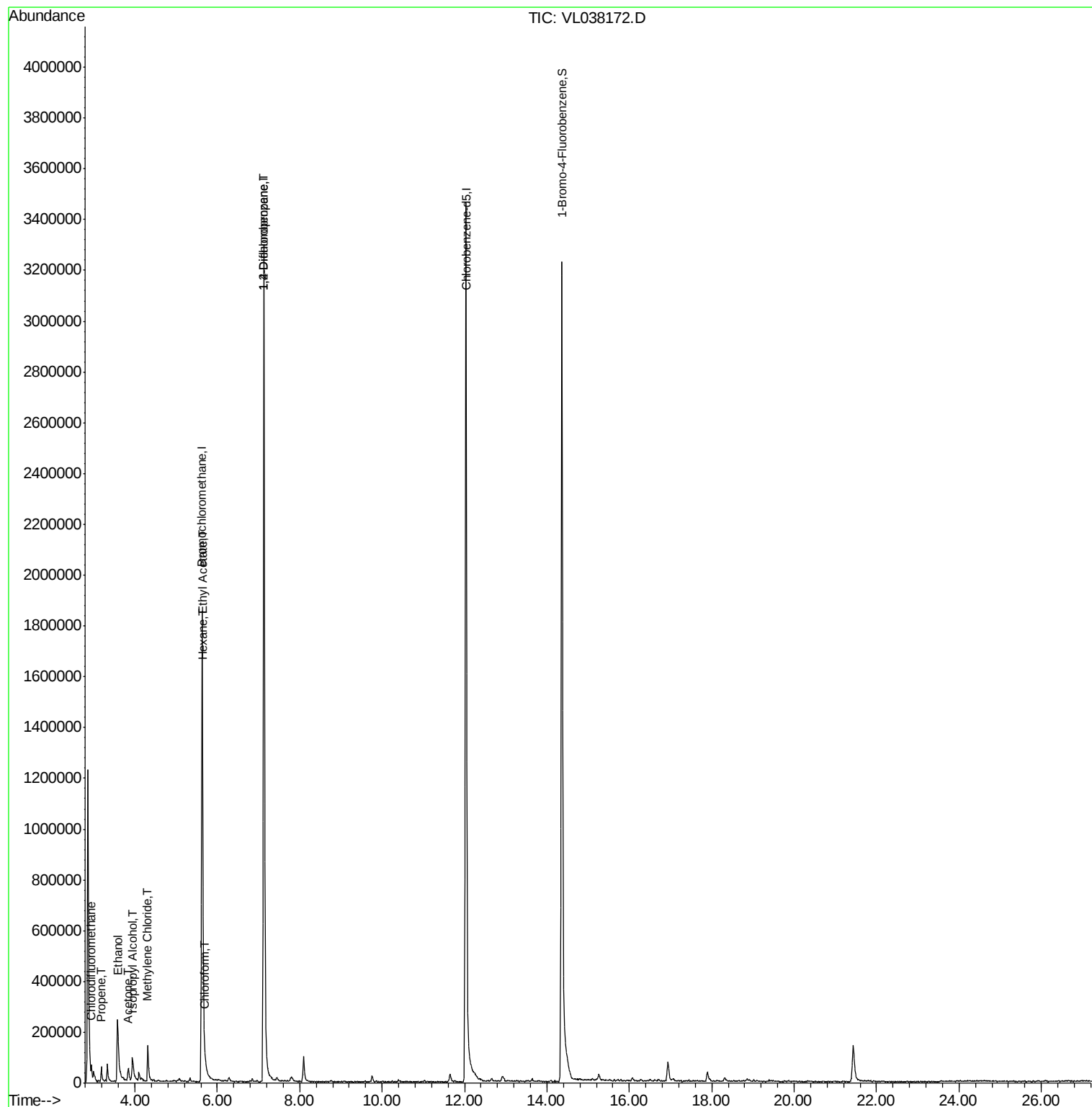
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.94	51	47360	0.211	ppbv #	64
9) Propene	3.18	41	18379	0.222	ppbv	89
13) Ethanol	3.58	45	385523	48.264	ppbv	92
15) Acetone	3.83	43	50369	0.544	ppbv	99
19) Isopropyl Alcohol	3.94	45	65264	0.975	ppbv #	86
20) Methylene Chloride	4.31	84	56814	1.095	ppbv	96
25) Ethyl Acetate	5.65	43	95853	0.311	ppbv #	94
26) Hexane	5.65	57	53510	0.360	ppbv #	85
29) Chloroform	5.71	83	7484	0.034	ppbv	96
39) 1,2-Dichloropropane	7.13	63	747980	6.998	ppbv #	27

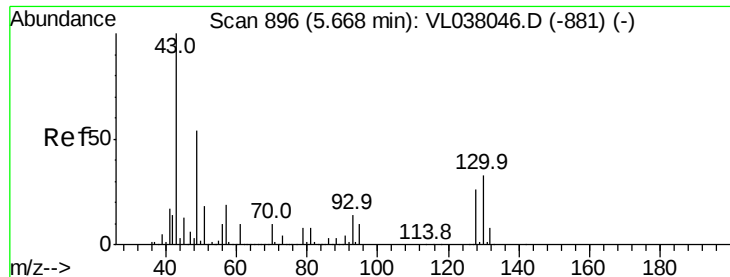
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 18:45

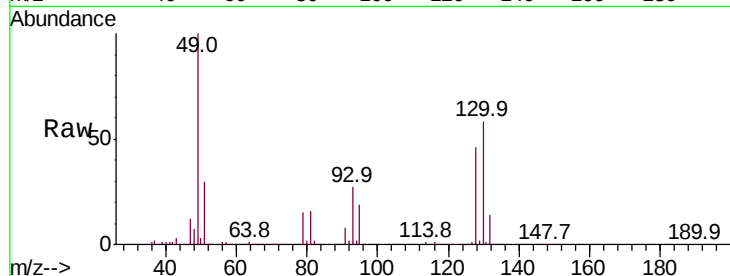
Tot Ion: 49 Resp: 1068743

Ion Ratio Lower Upper

49 100

128 47.9 26.5 79.5

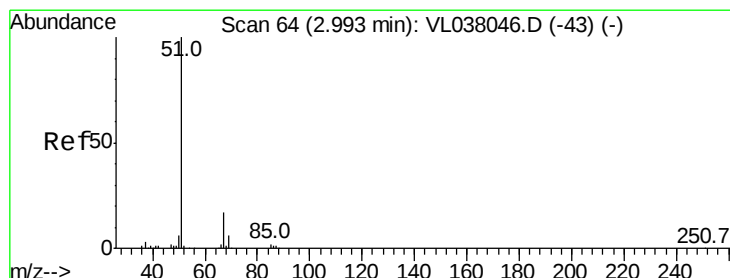
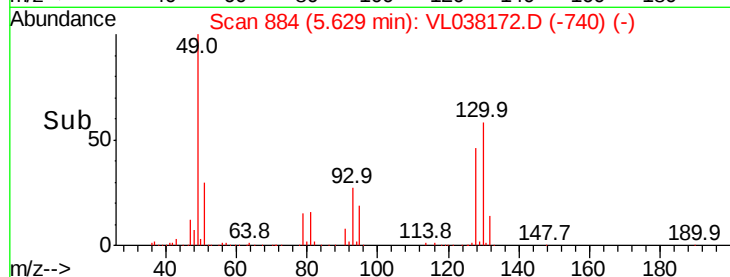
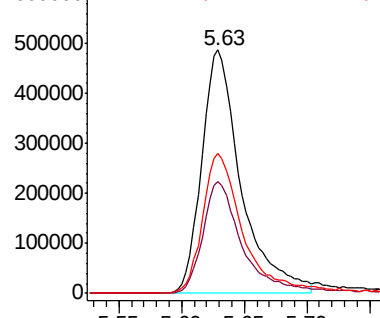
130 60.9 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.211 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.05 min

Lab File: VL038172.D

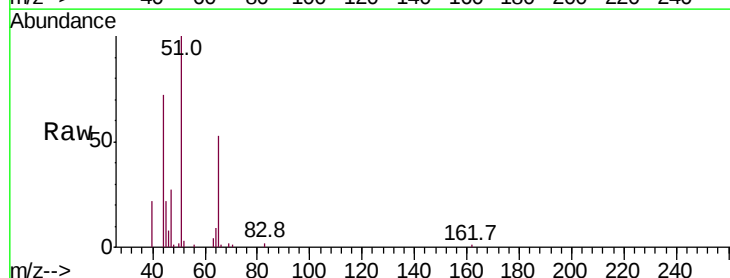
Acq: 14 Dec 2021 18:45

Tgt Ion: 51 Resp: 47360

Ion Ratio Lower Upper

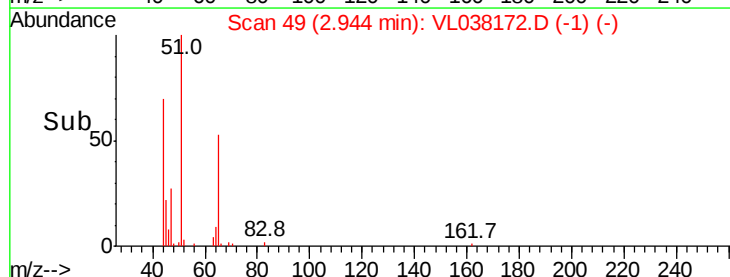
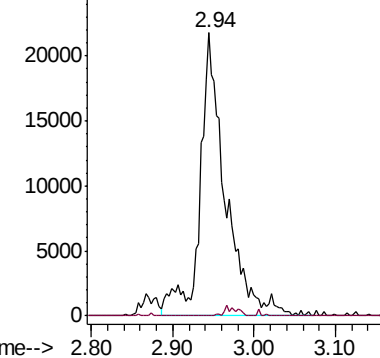
51 100

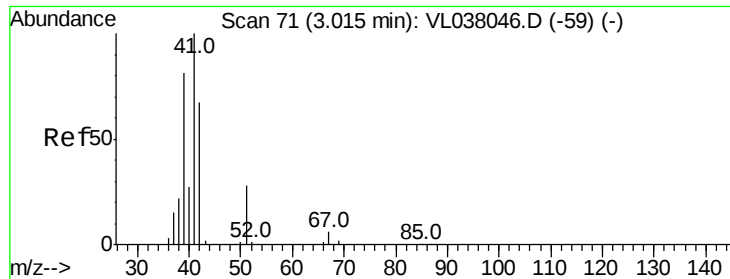
67 1.6 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.222 ppbv

RT: 3.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

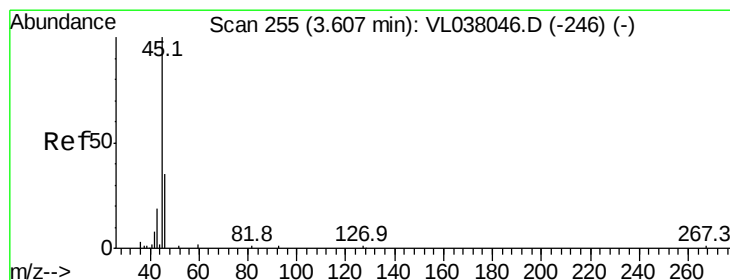
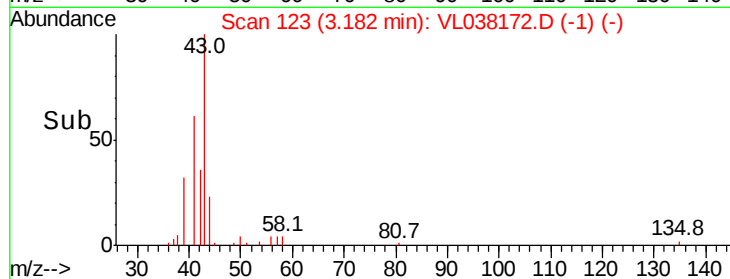
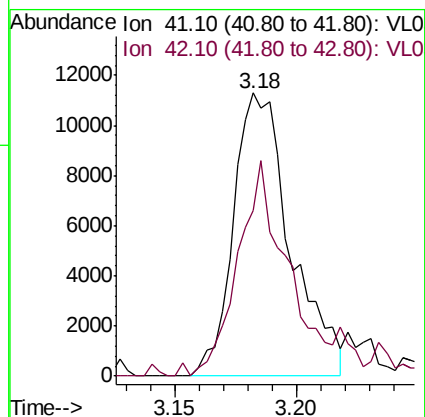
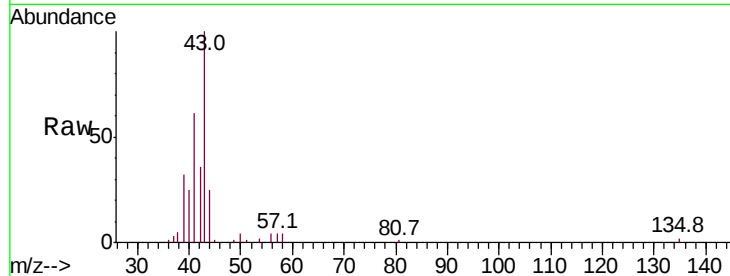
Acq: 14 Dec 2021 18:45

Tot Ion: 41 Resp: 18379

Ion Ratio Lower Upper

41 100

42 76.0 53.8 80.8



#13

Ethanol

Concen: 48.264 ppbv

RT: 3.58 min Scan# 246

Delta R.T. -0.03 min

Lab File: VL038172.D

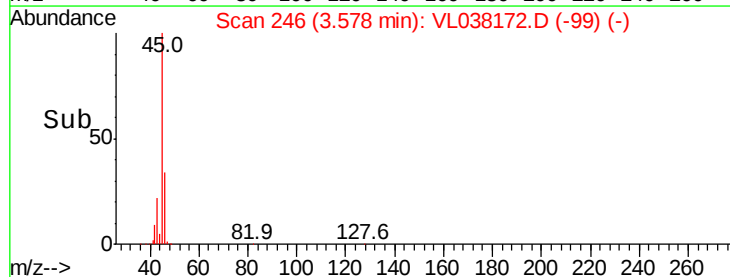
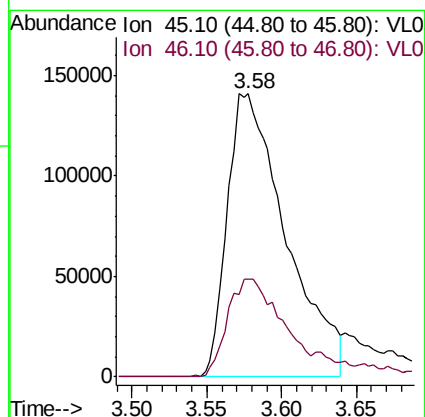
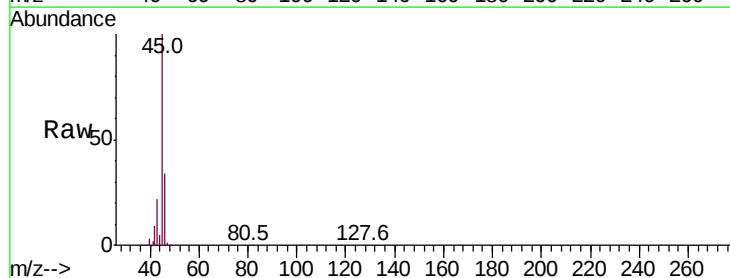
Acq: 14 Dec 2021 18:45

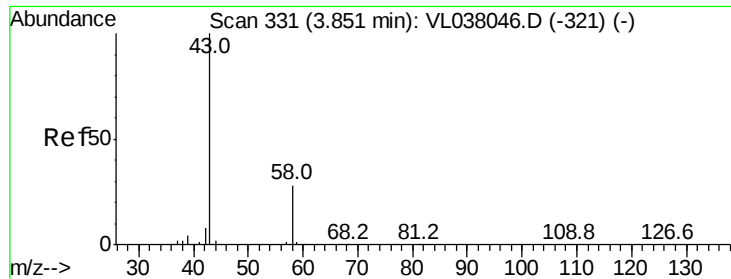
Tgt Ion: 45 Resp: 385523

Ion Ratio Lower Upper

45 100

46 39.0 17.6 70.2





#15

Acetone

Concen: 0.544 ppbv

RT: 3.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

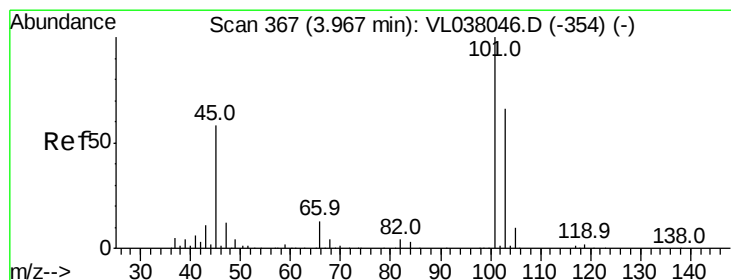
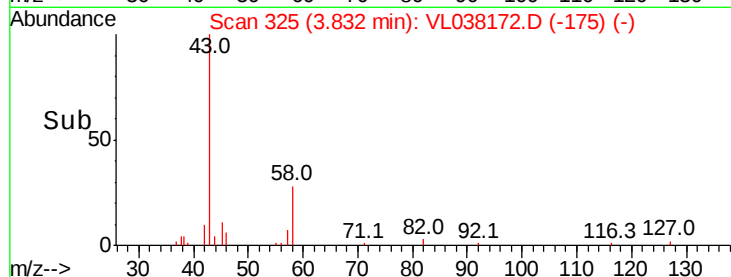
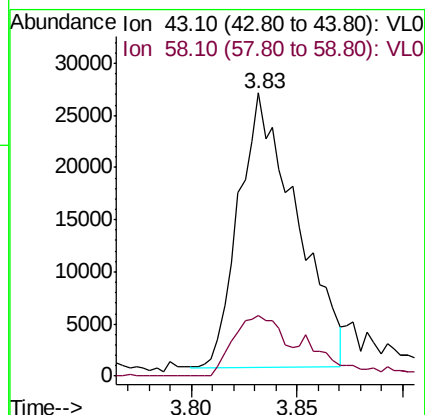
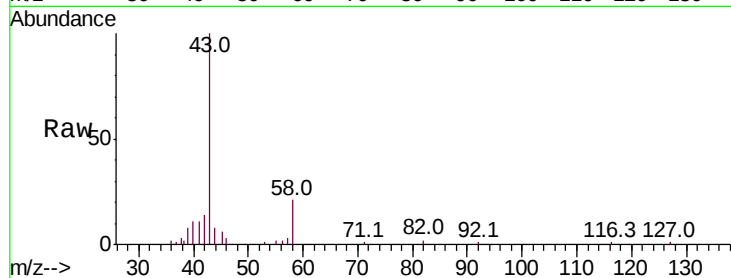
Acq: 14 Dec 2021 18:45

Tot Ion: 43 Resp: 50369

Ion Ratio Lower Upper

43 100

58 27.7 22.4 33.6



#19

Isopropyl Alcohol

Concen: 0.975 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.03 min

Lab File: VL038172.D

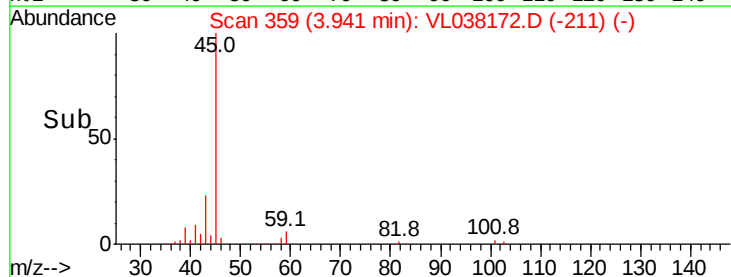
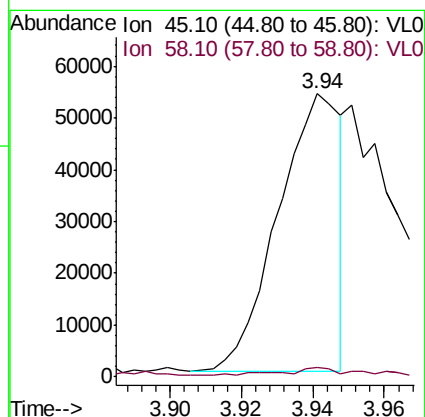
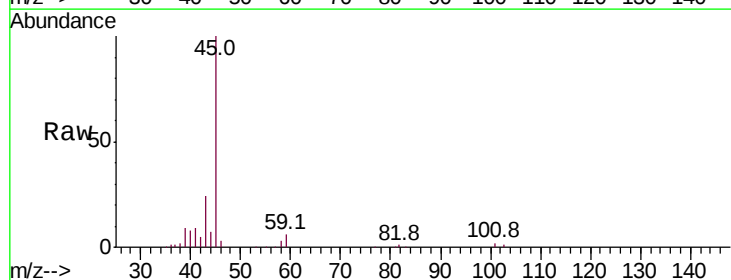
Acq: 14 Dec 2021 18:45

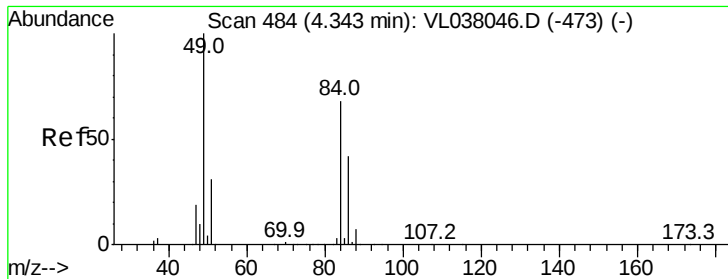
Tgt Ion: 45 Resp: 65264

Ion Ratio Lower Upper

45 100

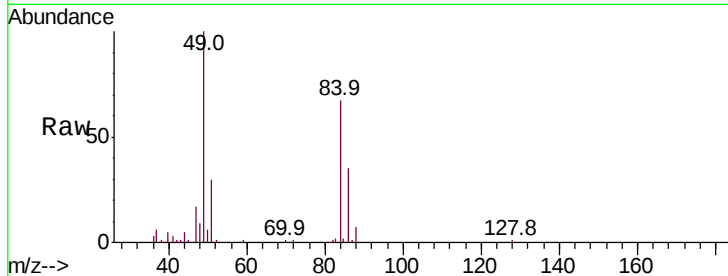
58 6.9 1.4 2.0#



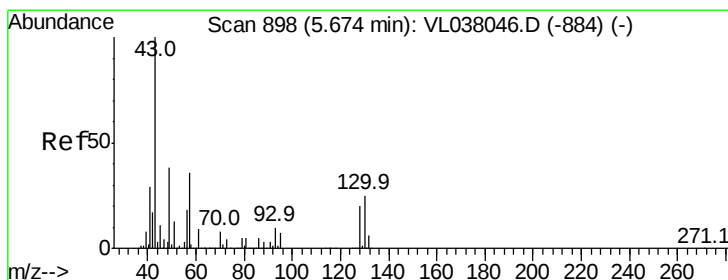
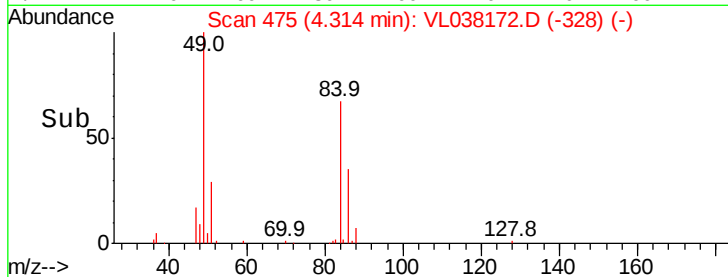
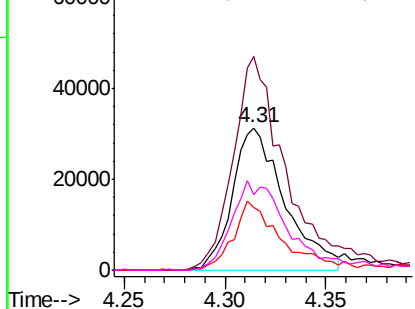


#20
Methvlene Chloride
Concen: 1.095 ppbv
RT: 4.31 Instrument :
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 14 Dec 2021 18:45

Tot Ion:	84	Resp:	56814
Ion	Ratio	Lower	Upper
84	100		
49	149.8	118.2	177.2
51	44.4	36.8	55.2
86	53.3	49.0	73.6

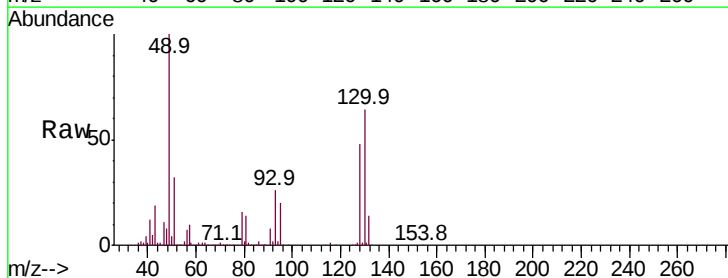


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

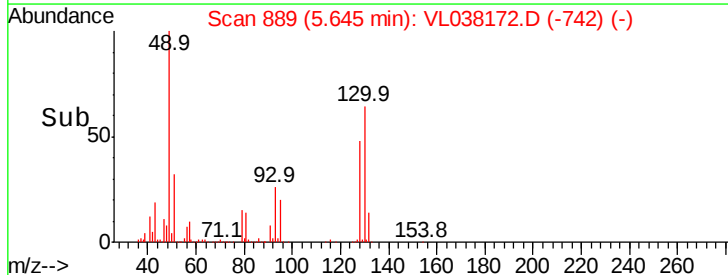
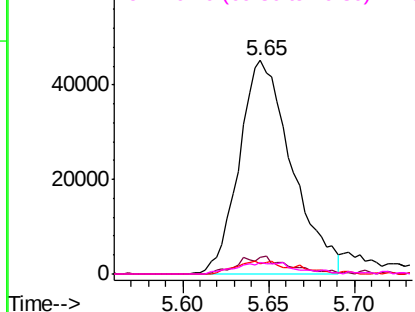


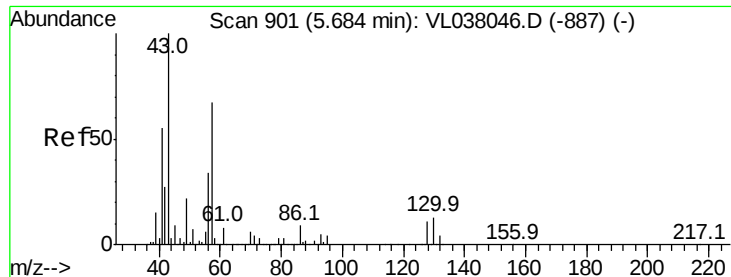
#25
Ethyl Acetate
Concen: 0.311 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.03 min
Lab File: VL038172.D
Acq: 14 Dec 2021 18:45

Tgt Ion:	43	Resp:	95853
Ion	Ratio	Lower	Upper
43	100		
45	8.0	7.9	11.9
61	6.9	7.8	11.6#
70	6.1	5.8	8.8



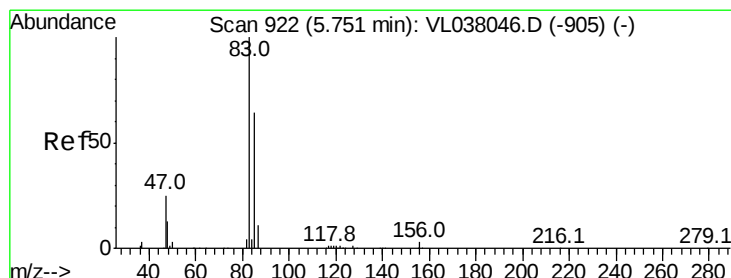
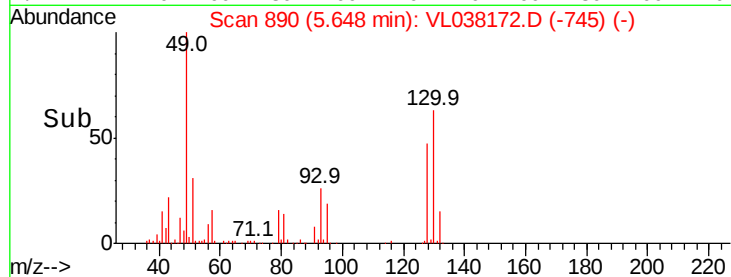
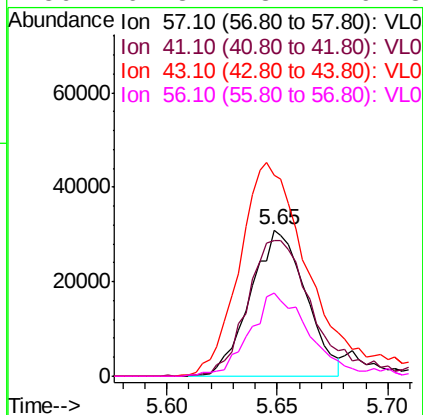
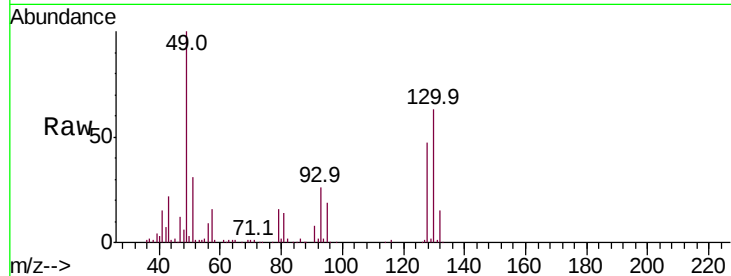
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





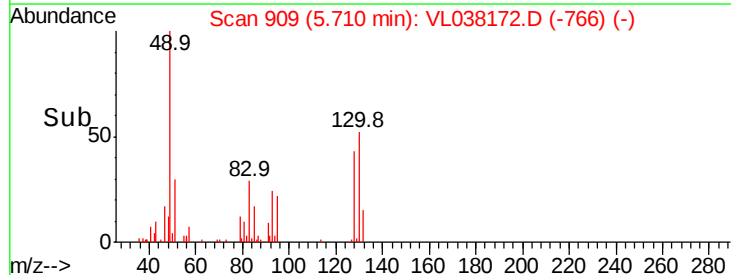
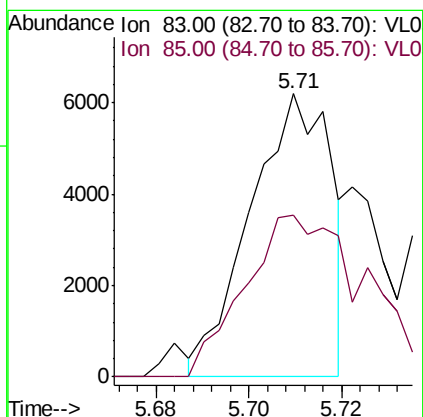
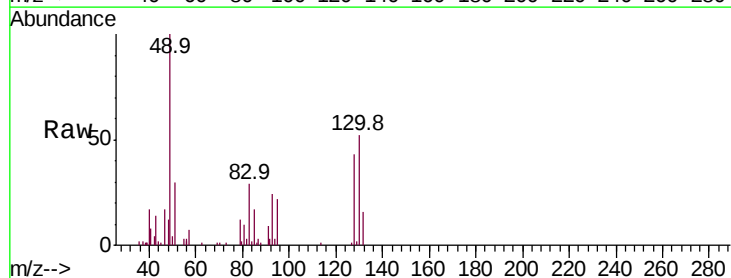
#26
Hexane
Concen: 0.360 ppbv
RT: 5.65
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 18:45

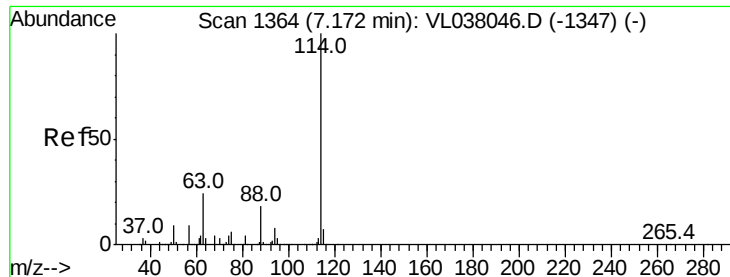
Tot Ion:	57	Resp:	53510
Ion	Ratio	Lower	Upper
57	100		
41	115.0	71.4	107.2#
43	201.0	174.6	261.8
56	64.3	43.2	64.8



#29
Chloroform
Concen: 0.034 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.04 min
Lab File: VL038172.D
Acq: 14 Dec 2021 18:45

Tgt Ion:	83	Resp:	7484
Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.0	76.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.13 min

Instrument: MSVOA_L

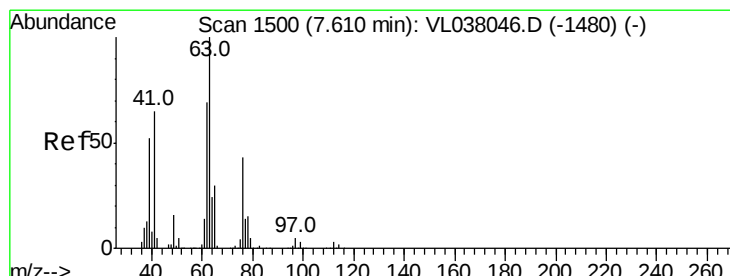
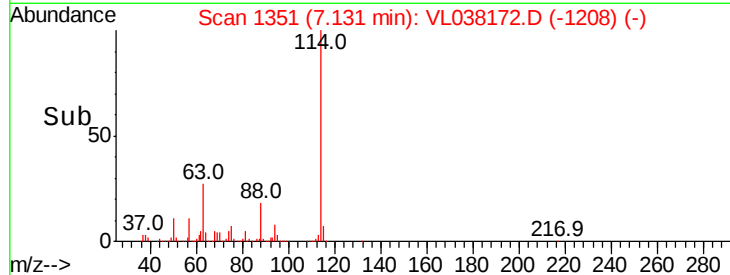
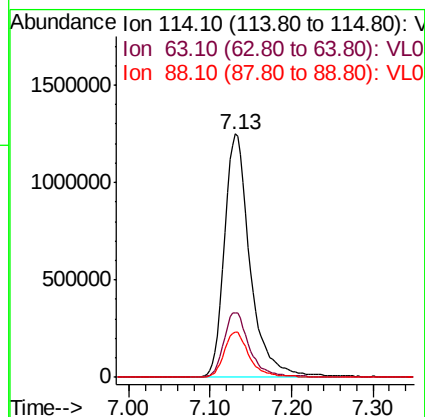
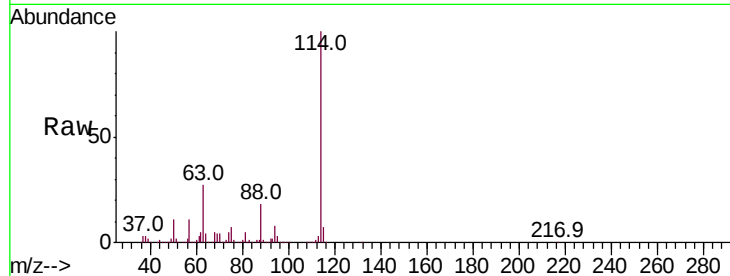
Delta R.T.:

Lab File: ClientSampleId:

Acq: 14 Dec 2021 18:45

Tot Ion: 114 Resp: 2793149

Ion	Ratio	Lower	Upper
114	100		
63	27.0	19.7	29.5
88	18.7	14.4	21.6



#39

1,2-Dichloropropane

Concen: 6.998 ppbv

RT: 7.13 min Scan# 1350

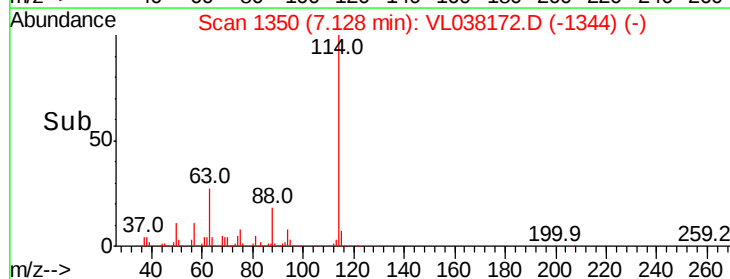
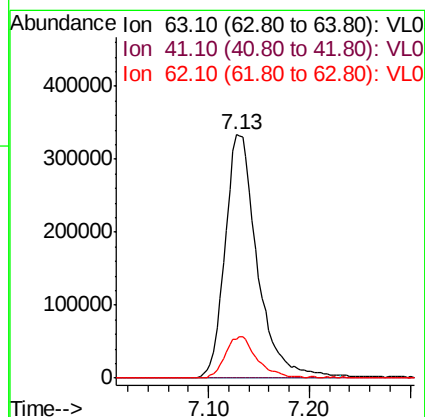
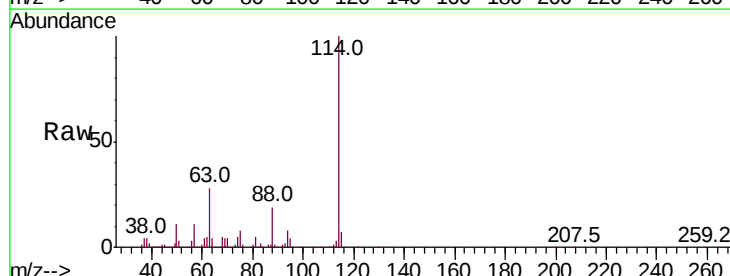
Delta R.T. -0.48 min

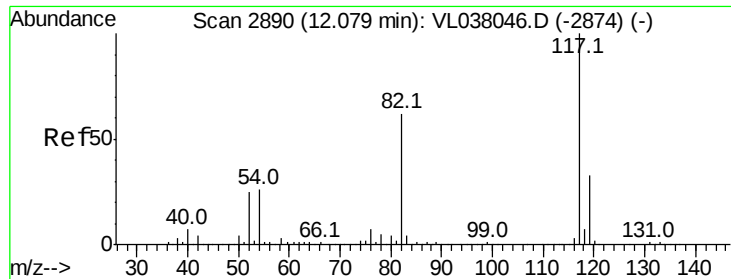
Lab File: VL038172.D

Acq: 14 Dec 2021 18:45

Tgt Ion: 63 Resp: 747980

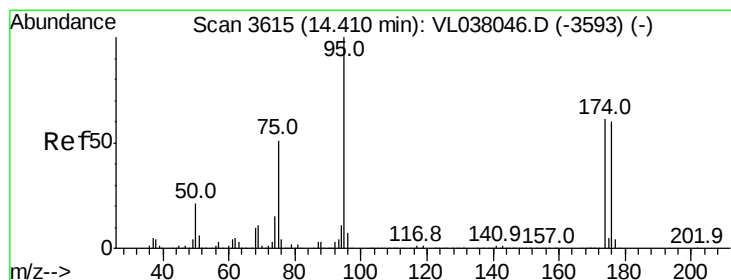
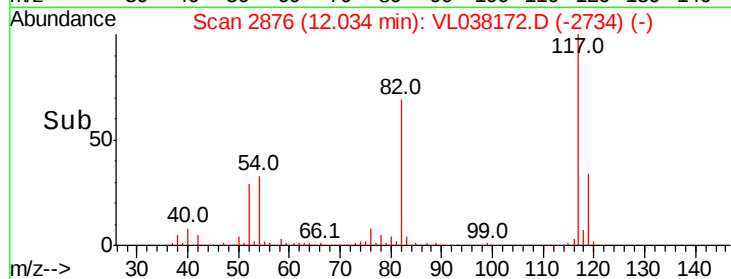
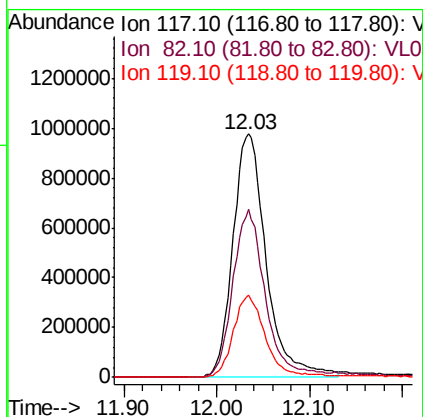
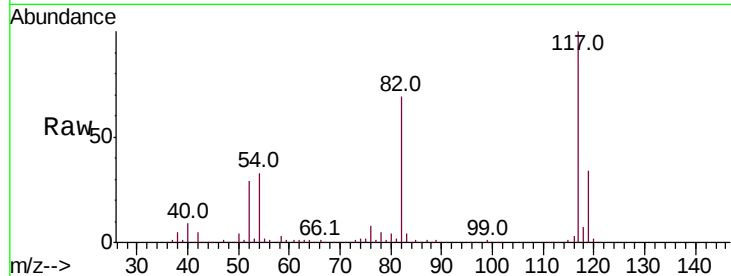
Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	16.2	55.1	82.7#





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.03 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 18:45

Tot Ion:117 Resp: 2438960
 Ion Ratio Lower Upper
 117 100
 82 70.9 52.8 79.2
 119 33.2 26.8 40.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.652 ppbv
 RT: 14.36 min Scan# 3600
 Delta R.T.: -0.05 min
 Lab File: VL038172.D
 Acq: 14 Dec 2021 18:45

Tgt Ion: 95 Resp: 1873937
 Ion Ratio Lower Upper
 95 100
 174 62.2 53.1 79.7
 175 4.6 4.0 6.0

