

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038169.D
 Acq On : 14 Dec 2021 16:48
 Operator : SY/AP
 Sample : M5045-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 04:56:56 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	931643	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2390463	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	1909195	10.00	ppbv	-0.04

System Monitoring Compounds

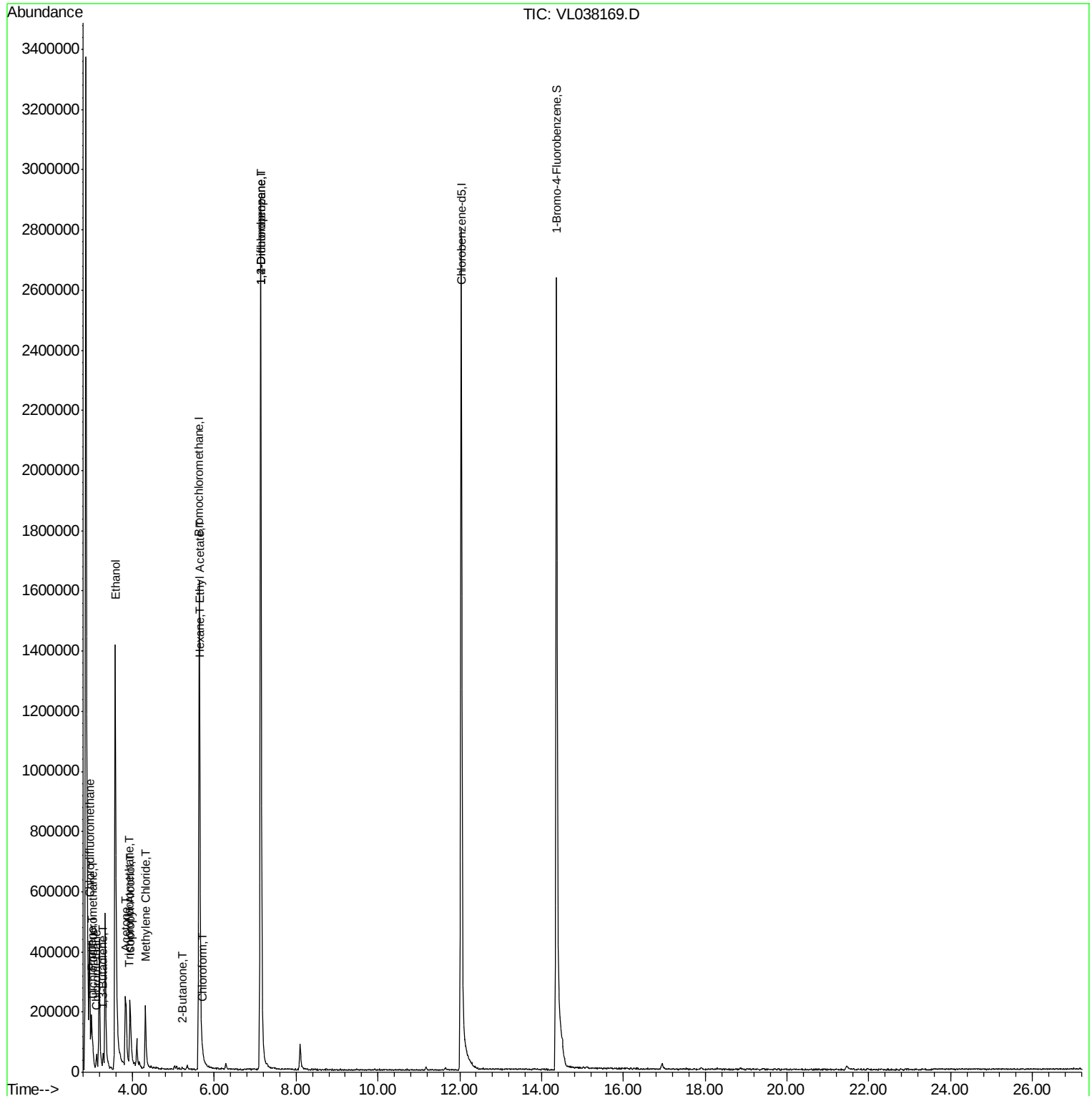
68) 1-Bromo-4-Fluorobenzene	14.37	95	1499829	10.89	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

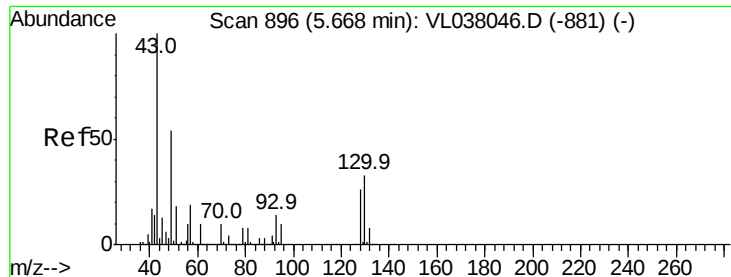
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	13463	0.087	ppbv	97
3) Chlorodifluoromethane	2.95	51	370483	1.894	ppbv #	66
4) Chloromethane	3.12	50	44446	0.667	ppbv	95
9) Propene	3.00	41	41082	0.570	ppbv	90
11) Trichlorofluoromethane	3.92	101	21972	0.150	ppbv	84
13) Ethanol	3.57	45	2024709	290.775	ppbv	90
15) Acetone	3.82	43	323601	4.006	ppbv	97
16) 1,3-Butadiene	3.29	39	6016	0.095	ppbv #	78
19) Isopropyl Alcohol	3.94	45	277733	4.759	ppbv	100
20) Methylene Chloride	4.32	84	81739	1.807	ppbv	97
25) Ethyl Acetate	5.65	43	67725	0.252	ppbv #	97
26) Hexane	5.65	57	47611	0.368	ppbv #	76
29) Chloroform	5.72	83	10812	0.057	ppbv	97
34) 2-Butanone	5.21	43	3299	0.034	ppbv #	27
39) 1,2-Dichloropropane	7.13	63	633301	6.924	ppbv #	27

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

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Nov 18 13:16:09 2021
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 16:48

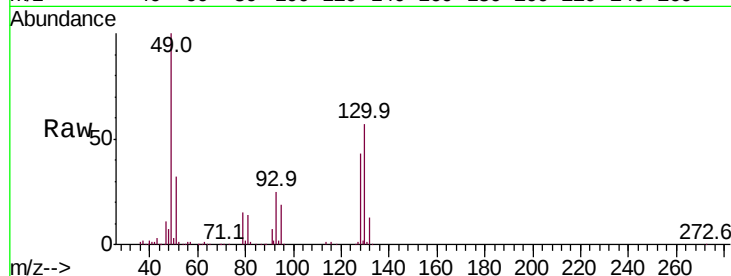
Tot Ion: 49 Resp: 931643

Ion Ratio Lower Upper

49 100

128 45.7 26.5 79.5

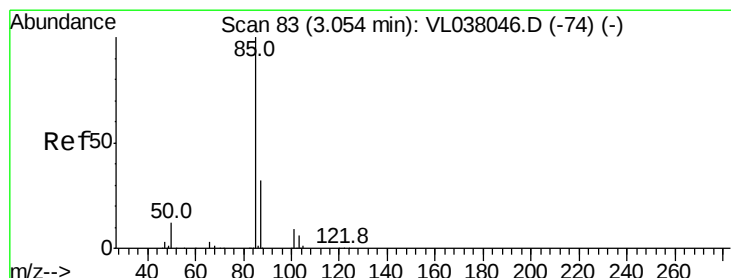
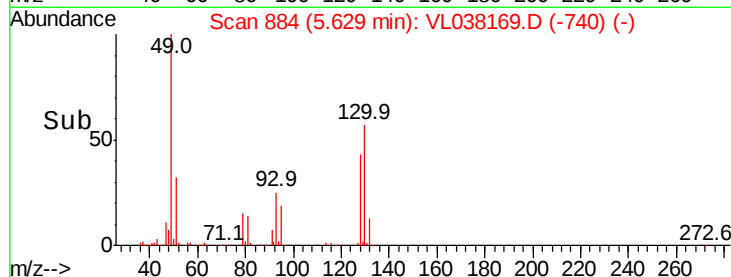
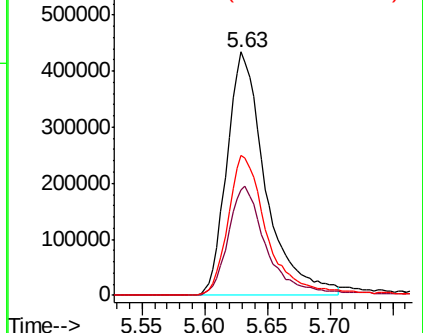
130 58.2 32.5 97.4



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



#2

Dichlorodifluoromethane

Concen: 0.087 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL038169.D

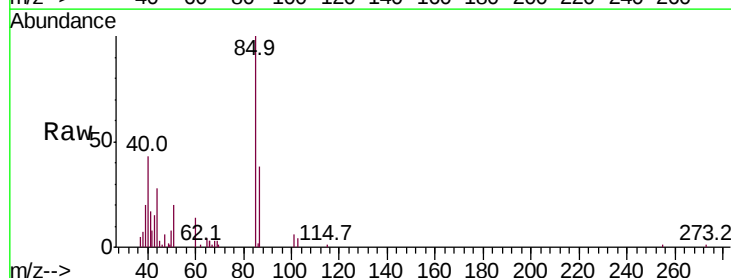
Acq: 14 Dec 2021 16:48

Tgt Ion: 85 Resp: 13463

Ion Ratio Lower Upper

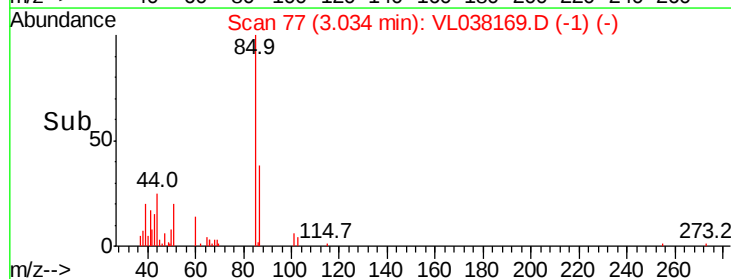
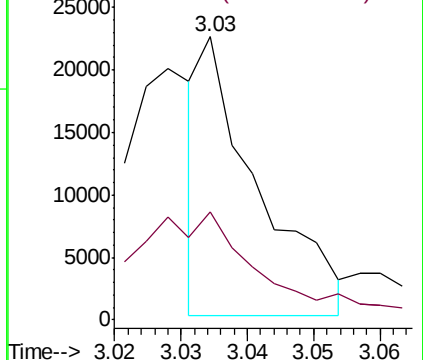
85 100

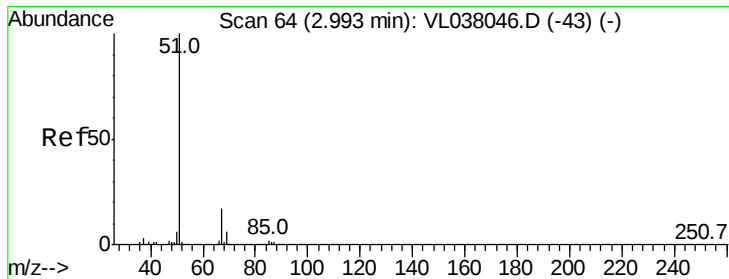
87 34.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.894 ppbv

RT: 2.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

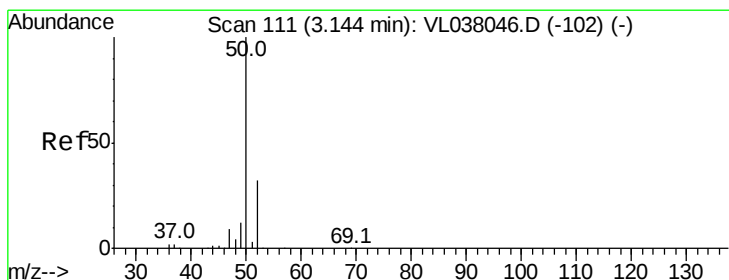
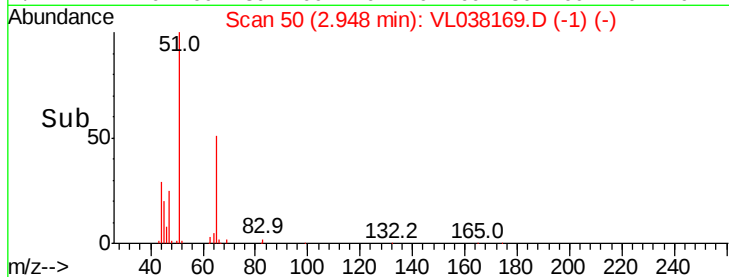
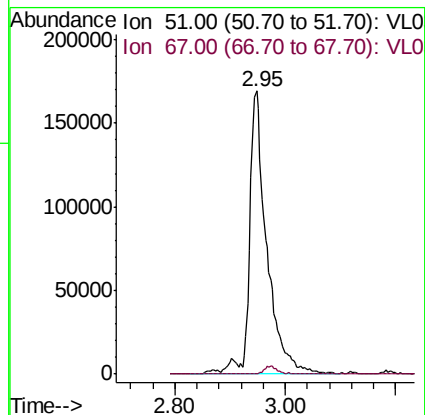
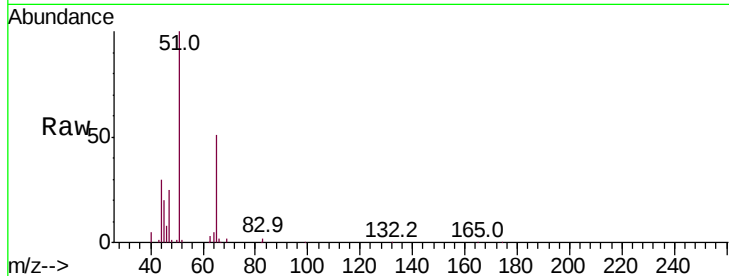
Acq: 14 Dec 2021 16:48

Tot Ion: 51 Resp: 370483

Ion Ratio Lower Upper

51 100

67 2.4 13.8 20.8#



#4

Chloromethane

Concen: 0.667 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL038169.D

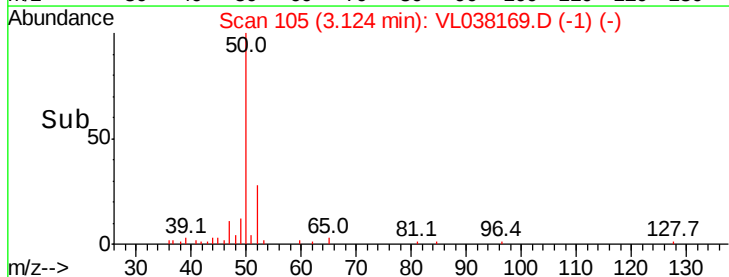
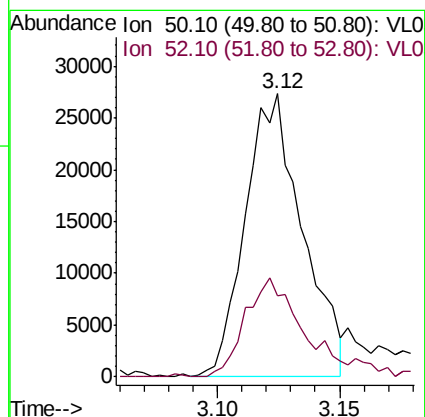
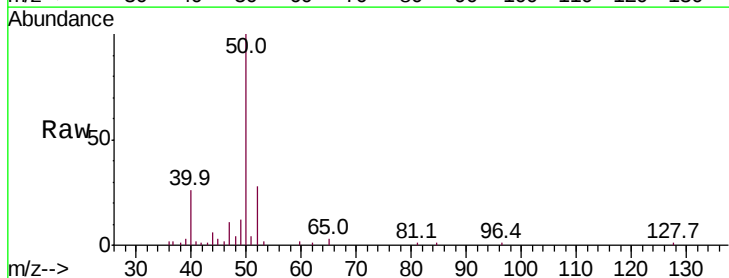
Acq: 14 Dec 2021 16:48

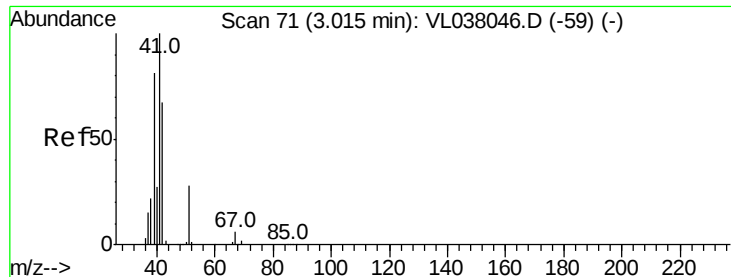
Tgt Ion: 50 Resp: 44446

Ion Ratio Lower Upper

50 100

52 28.9 25.4 38.0





#9

Propene

Concen: 0.570 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

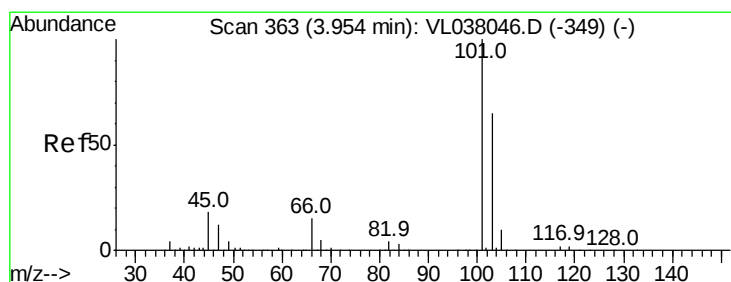
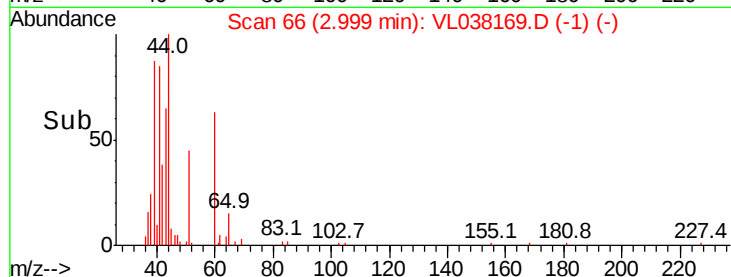
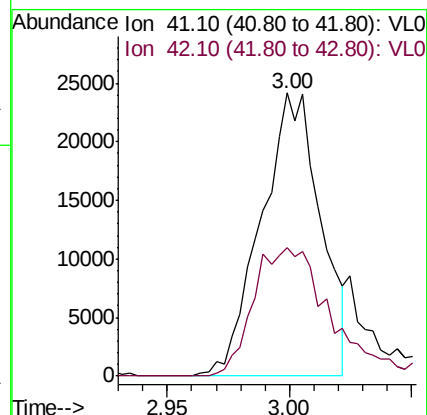
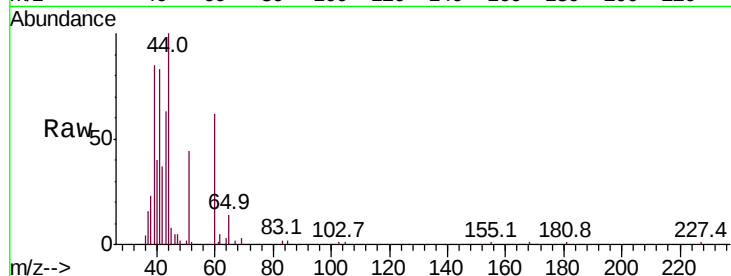
Acq: 14 Dec 2021 16:48

Tot Ion: 41 Resp: 41082

Ion Ratio Lower Upper

41 100

42 59.3 53.8 80.8



#11

Trichlorofluoromethane

Concen: 0.150 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.03 min

Lab File: VL038169.D

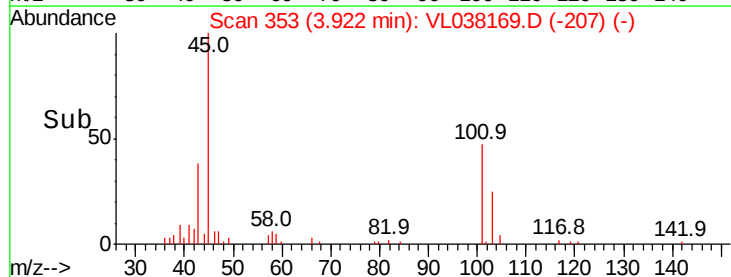
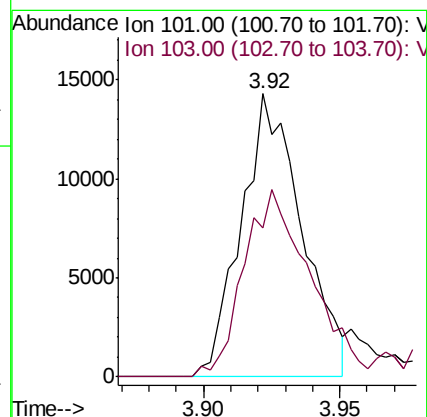
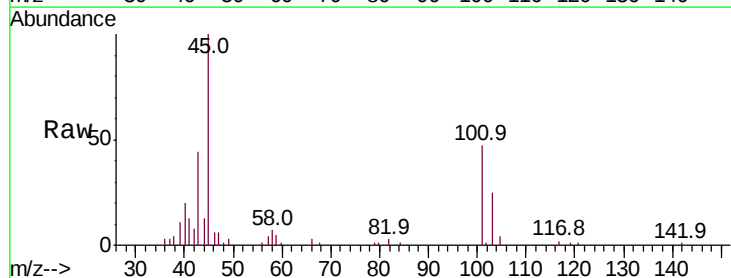
Acq: 14 Dec 2021 16:48

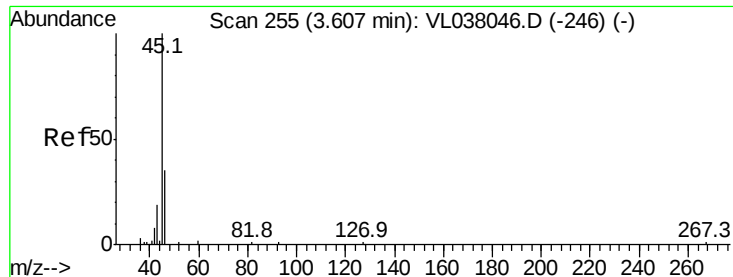
Tgt Ion: 101 Resp: 21972

Ion Ratio Lower Upper

101 100

103 52.4 51.8 77.6





#13

Ethanol

Concen: 290.775 ppbv

RT: 3.57

Delta R.T. MSVOA_L

Lab File:

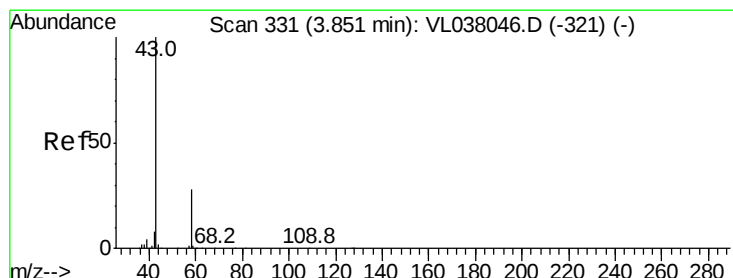
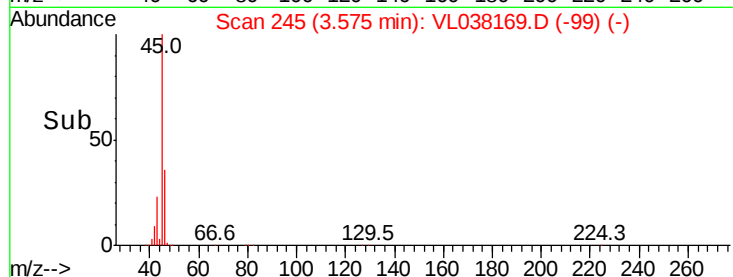
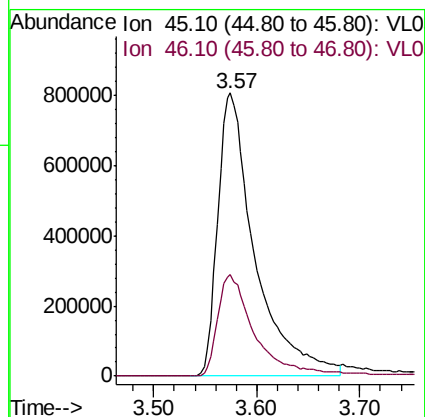
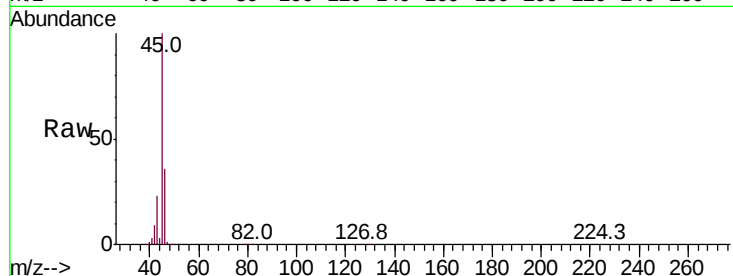
Acq: 14 Dec 2021 16:48

Tot Ion: 45 Resp: 2024709

Ion Ratio Lower Upper

45 100

46 37.5 17.6 70.2



#15

Acetone

Concen: 4.006 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL038169.D

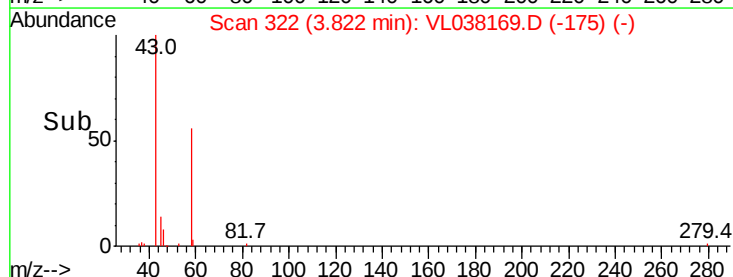
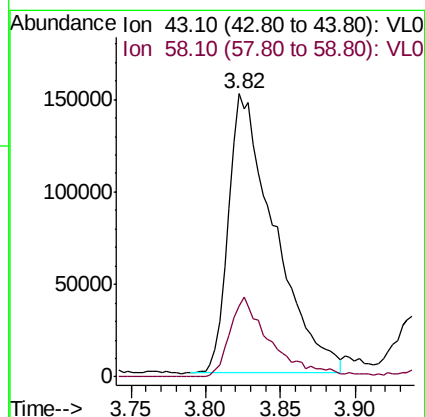
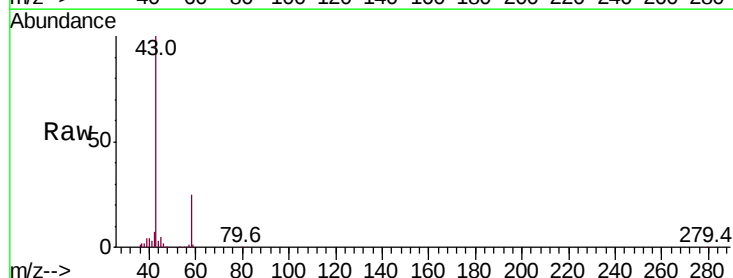
Acq: 14 Dec 2021 16:48

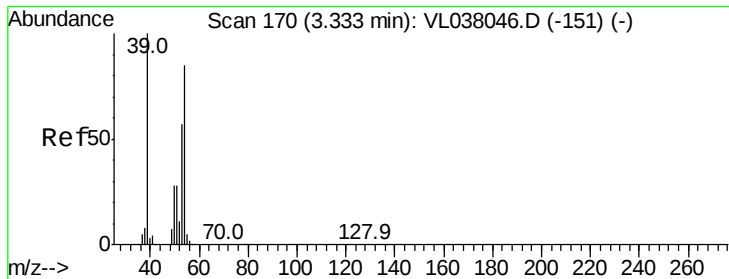
Tgt Ion: 43 Resp: 323601

Ion Ratio Lower Upper

43 100

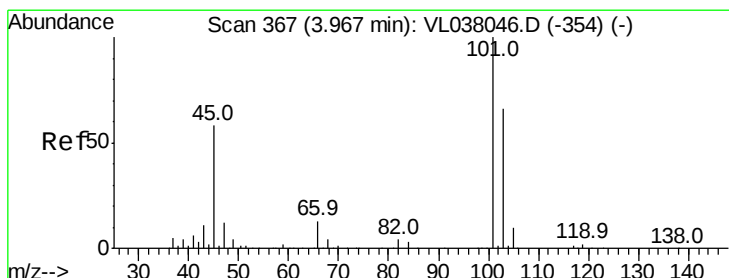
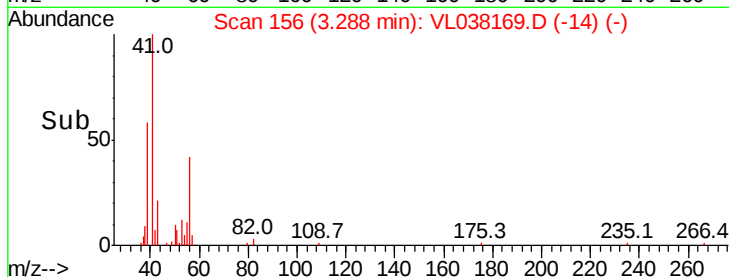
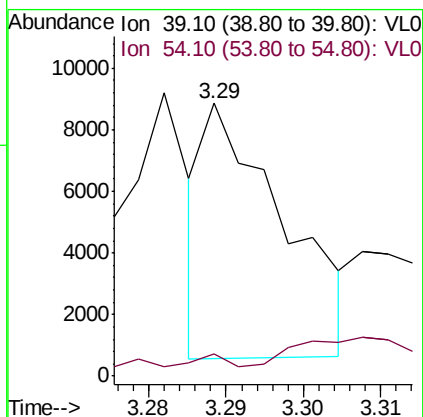
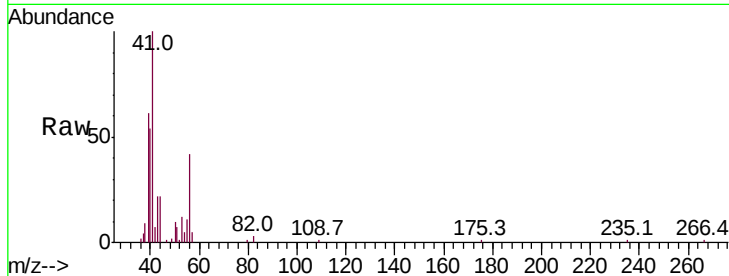
58 26.4 22.4 33.6





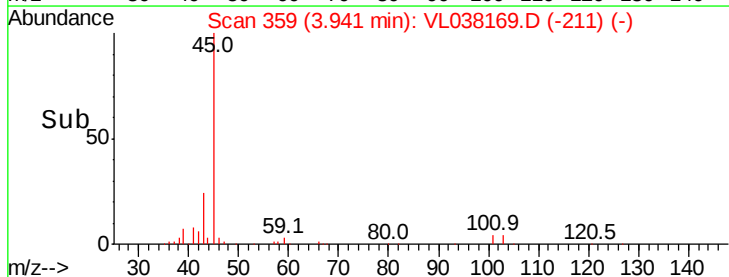
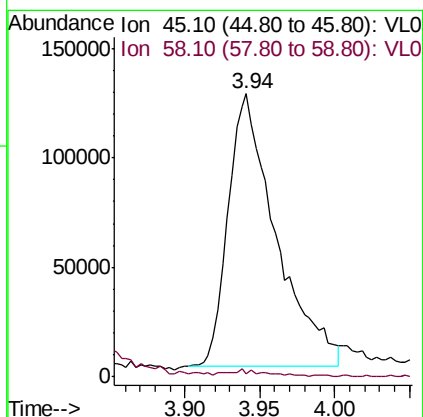
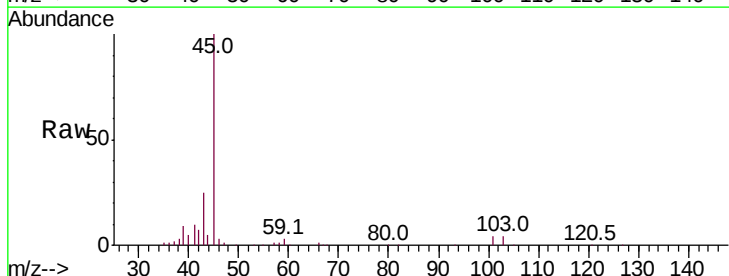
#16
 1,3-Butadiene
 Concen: 0.095 ppbv
 RT: 3.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 16:48

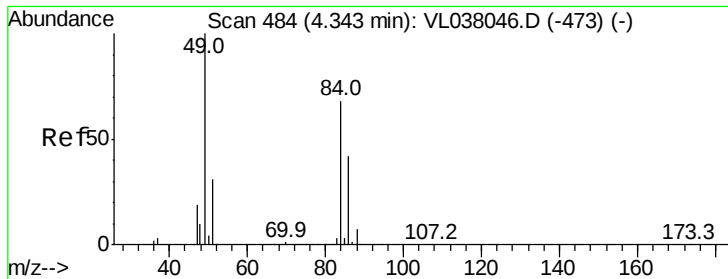
Tot Ion: 39 Resp: 6016
 Ion Ratio Lower Upper
 39 100
 54 61.1 64.4 96.6#



#19
 Isopropyl Alcohol
 Concen: 4.759 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.03 min
 Lab File: VL038169.D
 Acq: 14 Dec 2021 16:48

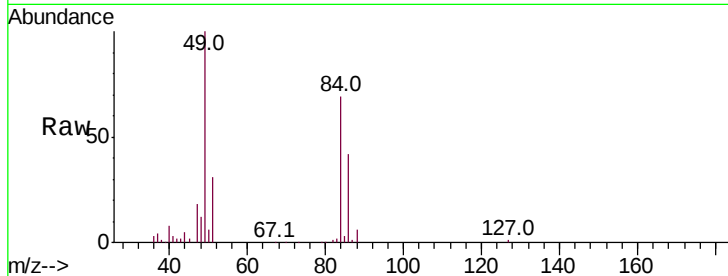
Tgt Ion: 45 Resp: 277733
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.4 2.0





#20
Methvlene Chloride
Concen: 1.807 ppbv
RT: 4.32
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 16:48

Tot Ion:	84	Resp:	81739
Ion	Ratio	Lower	Upper
84	100		
49	142.6	118.2	177.2
51	44.6	36.8	55.2
86	61.0	49.0	73.6



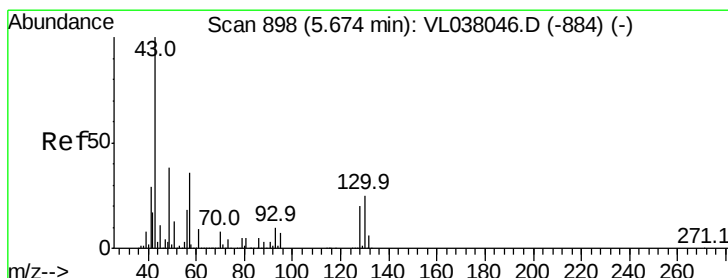
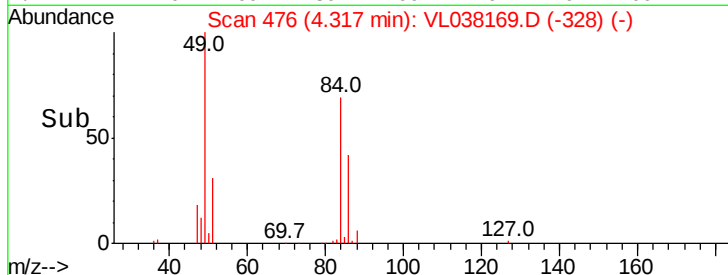
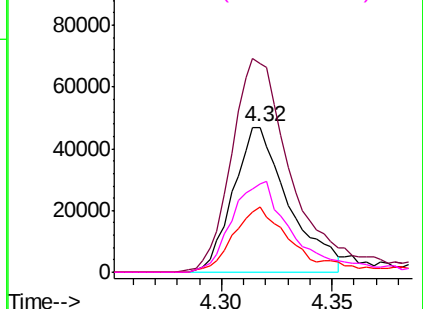
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

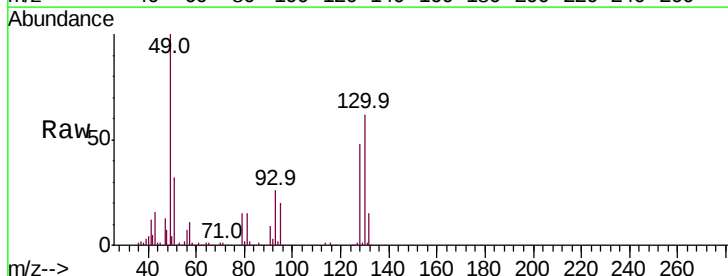
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.252 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.03 min
Lab File: VL038169.D
Acq: 14 Dec 2021 16:48

Tgt Ion:	43	Resp:	67725
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	7.2	7.8	11.6#
70	6.2	5.8	8.8



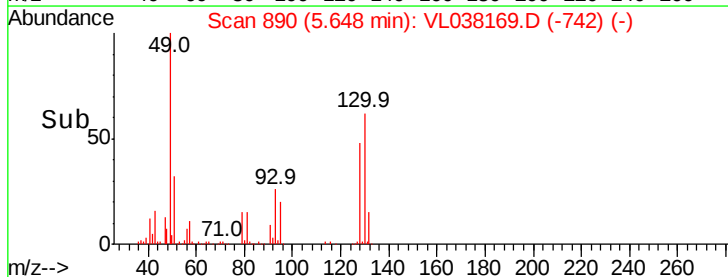
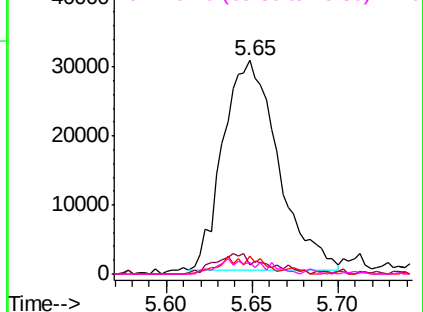
Abundance

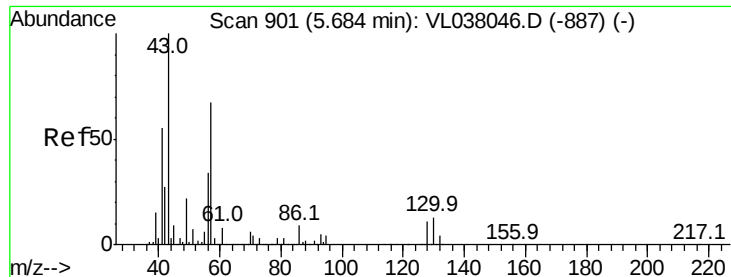
Ion 43.10 (42.80 to 43.80): VL0

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: 0.368 ppbv

RT: 5.65 Instrument:

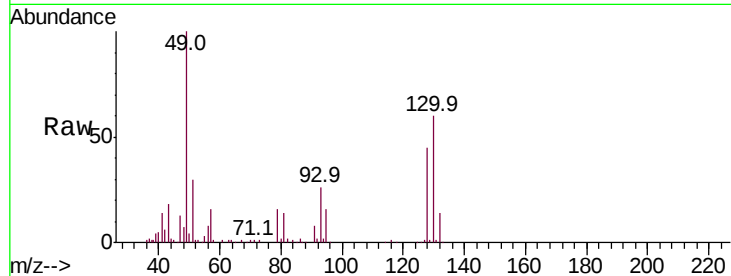
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 16:48

Tot Ion: 57 Resp: 47611

Ion	Ratio	Lower	Upper
57	100		
41	96.8	71.4	107.2
43	159.9	174.6	261.8#
56	55.4	43.2	64.8

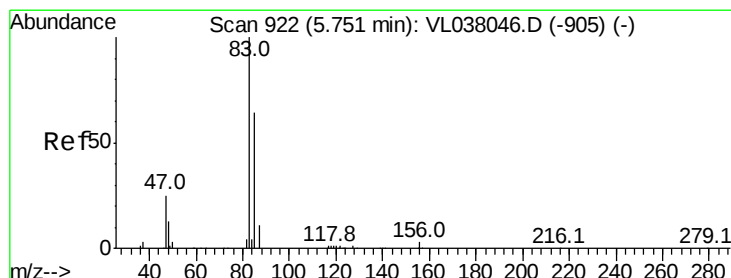
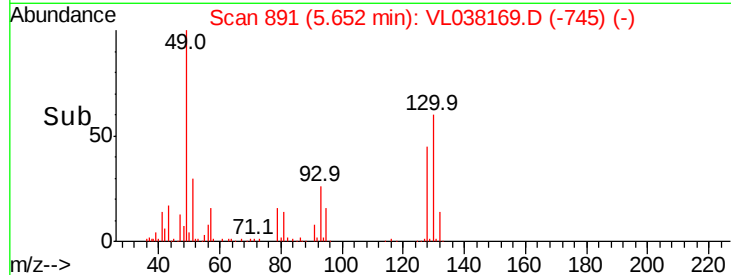
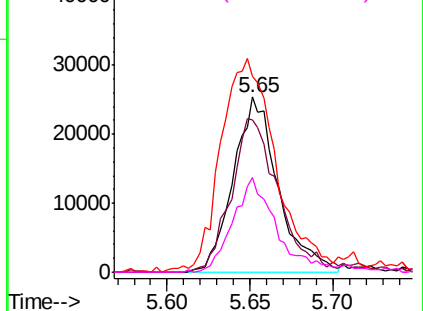


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.057 ppbv

RT: 5.72 min Scan# 911

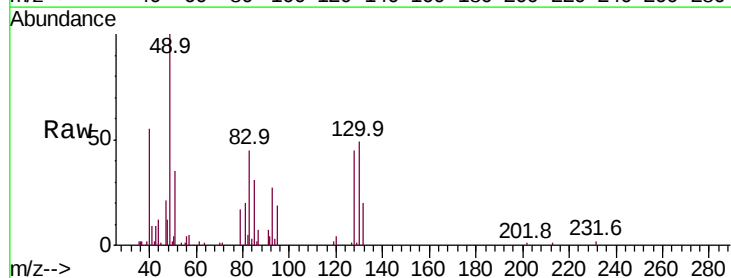
Delta R.T. -0.04 min

Lab File: VL038169.D

Acq: 14 Dec 2021 16:48

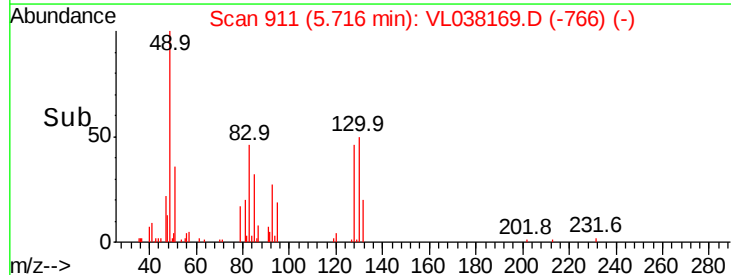
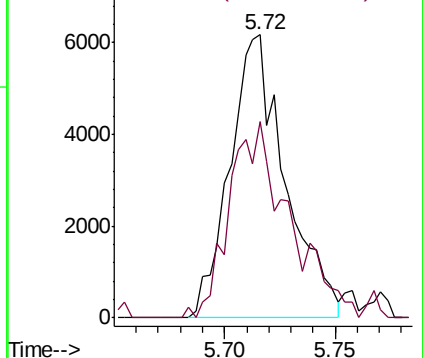
Tgt Ion: 83 Resp: 10812

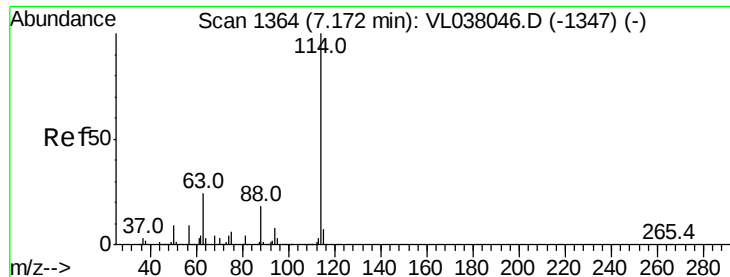
Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.0	76.6



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: 7.13 Instrument: MSVOA_L

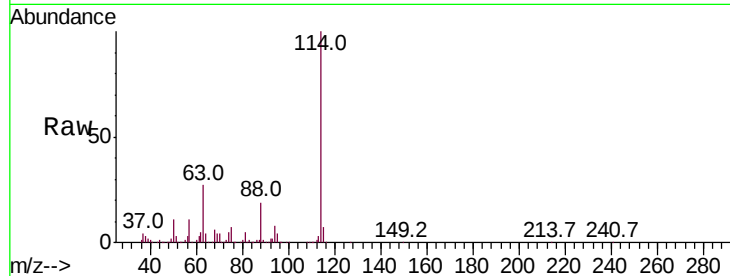
Delta R.T. ClientSampleId:

Lab File:

Acq: 14 Dec 2021 16:48

Tot Ion:114 Resp: 2390463

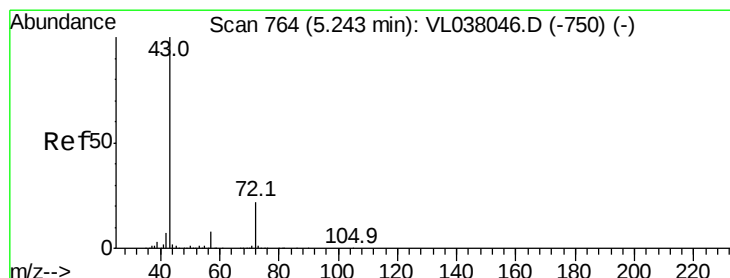
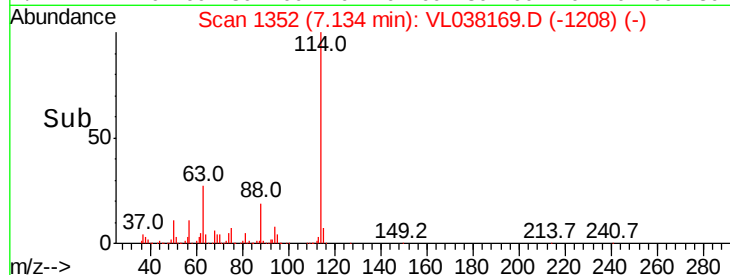
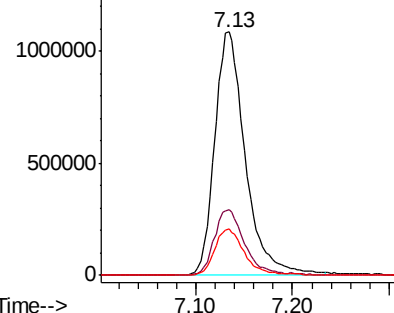
Ion	Ratio	Lower	Upper
114	100		
63	27.4	19.7	29.5
88	19.0	14.4	21.6



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: 5.21 min Scan# 754

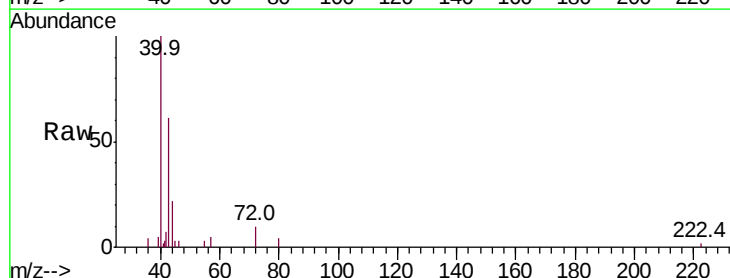
Delta R.T. -0.03 min

Lab File: VL038169.D

Acq: 14 Dec 2021 16:48

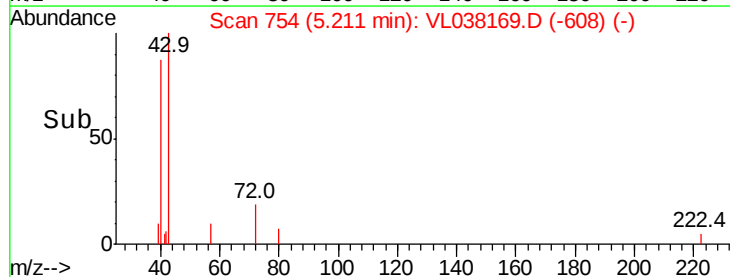
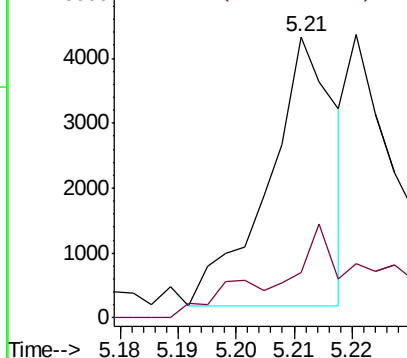
Tgt Ion: 43 Resp: 3299

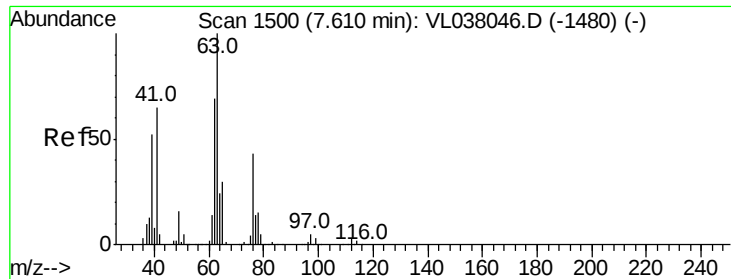
Ion	Ratio	Lower	Upper
43	100		
72	59.0	18.8	28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 6.924 ppbv

RT: 7.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 16:48

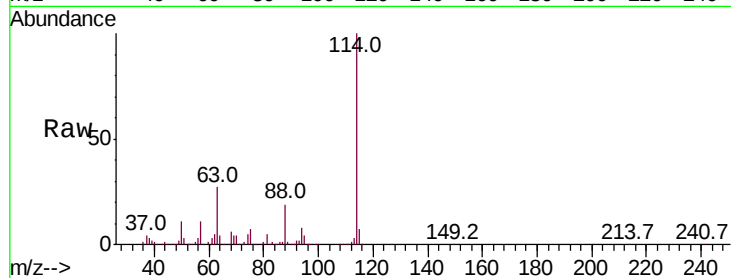
Tot Ion: 63 Resp: 633301

Ion Ratio Lower Upper

63 100

41 0.1 52.3 78.5#

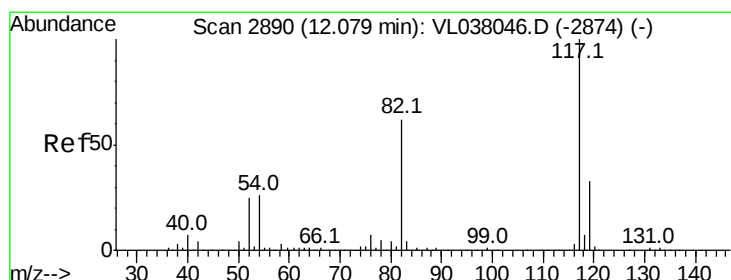
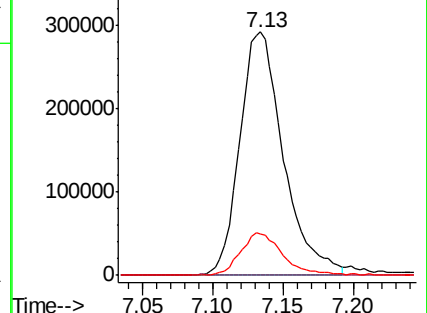
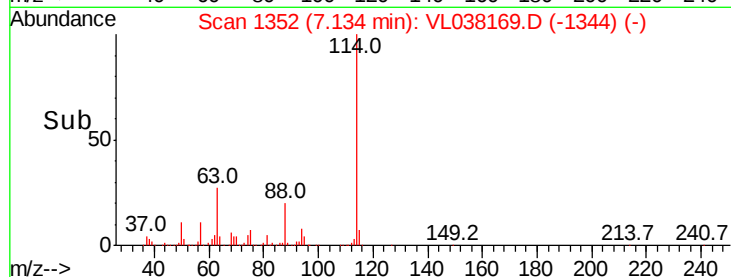
62 17.0 55.1 82.7#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04 min Scan# 2877

Delta R.T. -0.04 min

Lab File: VL038169.D

Acq: 14 Dec 2021 16:48

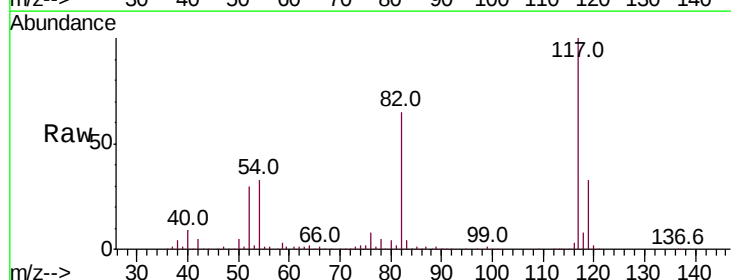
Tgt Ion: 117 Resp: 1909195

Ion Ratio Lower Upper

117 100

82 74.8 52.8 79.2

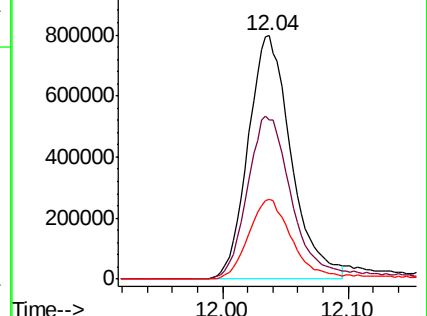
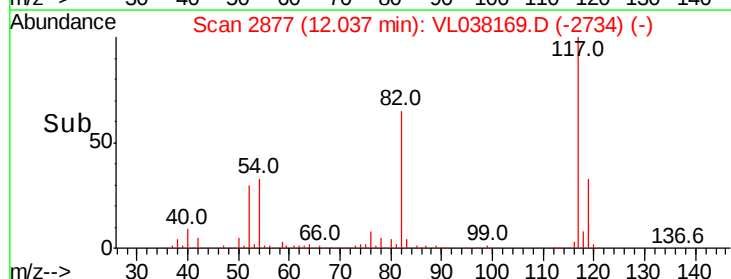
119 34.8 26.8 40.2

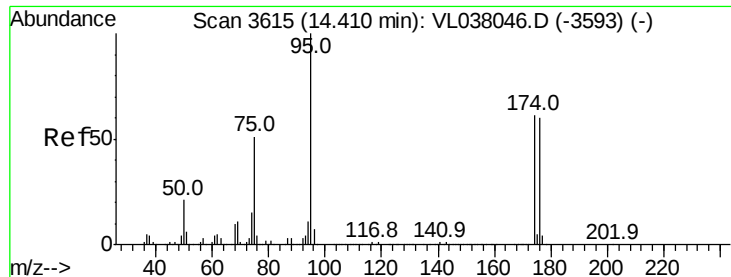


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.891 ppbv

RT: 14.37 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 16:48

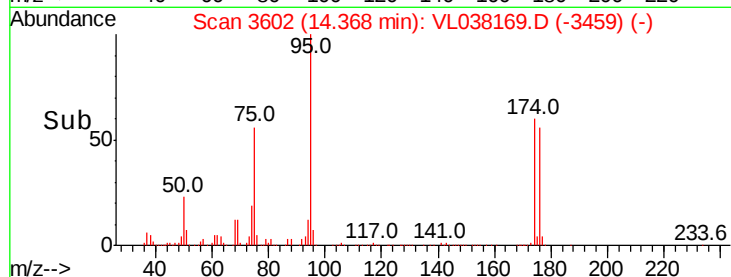
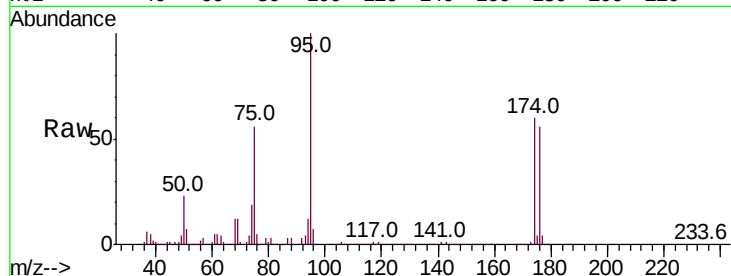
Tot Ion: 95 Resp: 1499829

Ion Ratio Lower Upper

95 100

174 65.7 53.1 79.7

175 4.6 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

