

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038224.D
 Acq On : 21 Dec 2021 22:16
 Operator : SY/AP
 Sample : M5118-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 08:29:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	741404	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	2134452	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1816861	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1446541	10.33	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

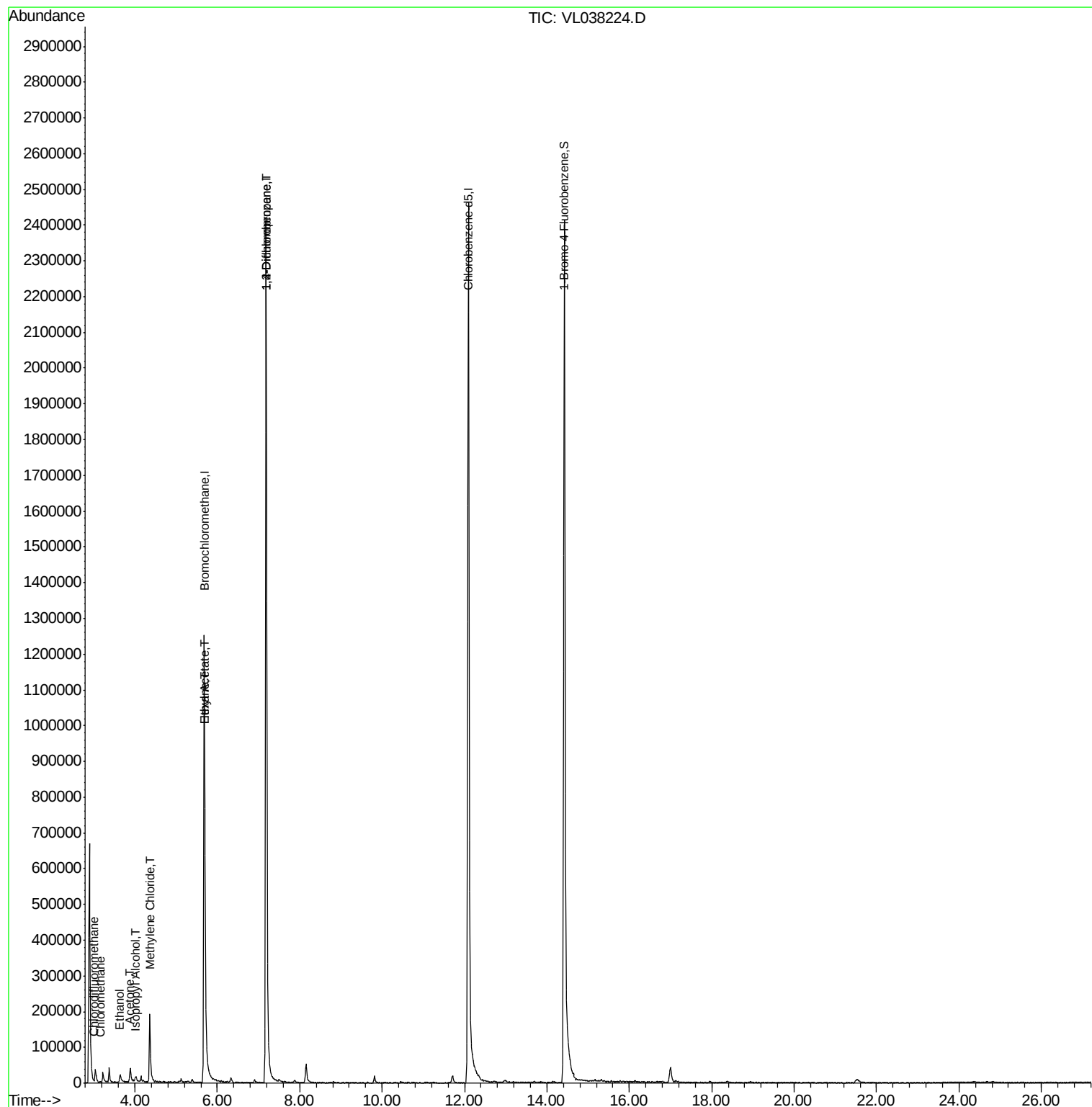
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	6782	0.044	ppbv #	79
4) Chloromethane	3.16	50	2262	0.042	ppbv #	84
13) Ethanol	3.64	45	21620	2.357	ppbv #	100
15) Acetone	3.88	43	22904	0.308	ppbv #	46
19) Isopropyl Alcohol	4.01	45	8214	0.177	ppbv #	58
20) Methylene Chloride	4.36	84	83132	1.979	ppbv	98
25) Ethyl Acetate	5.70	43	33314	0.165	ppbv #	78
26) Hexane	5.70	57	44063	0.436	ppbv #	45
39) 1,2-Dichloropropane	7.18	63	547701	7.148	ppbv #	26

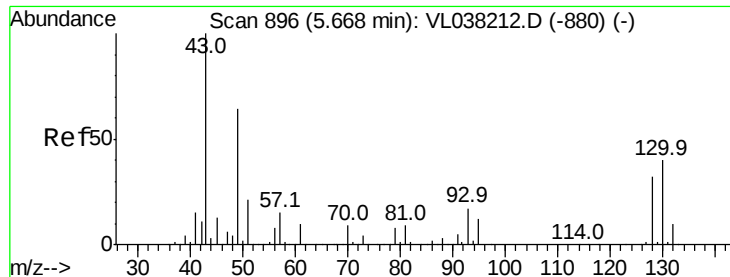
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 22:16

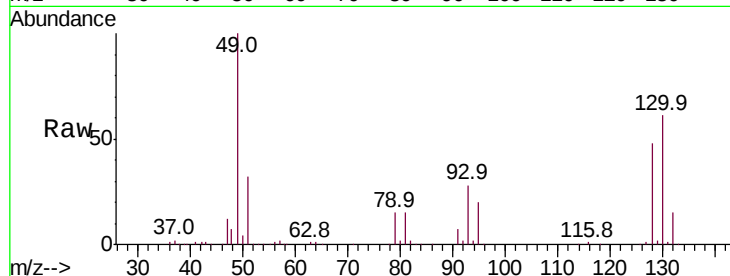
Tot Ion: 49 Resp: 741404

Ion Ratio Lower Upper

49 100

128 51.0 26.9 80.6

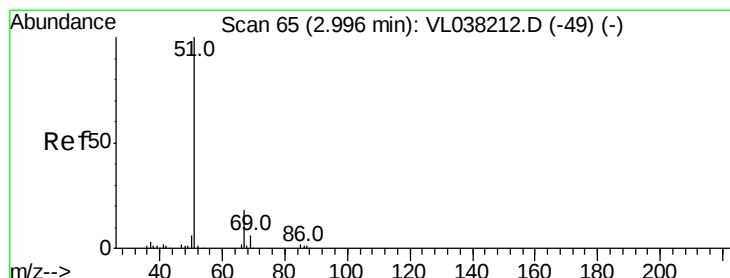
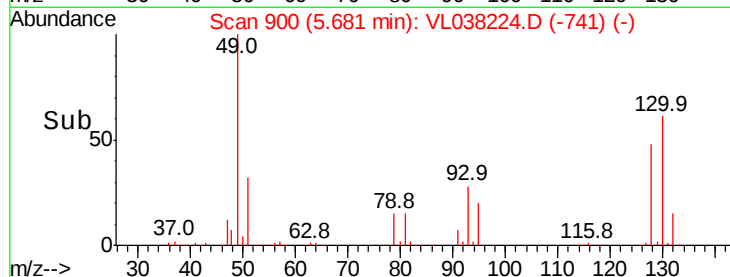
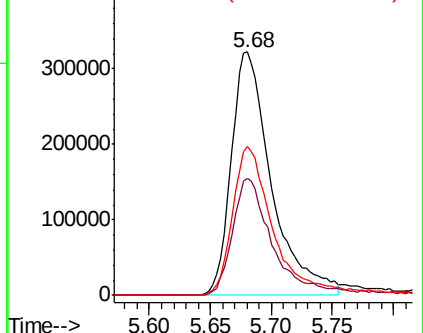
130 63.9 32.3 96.9



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: 0.044 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL038224.D

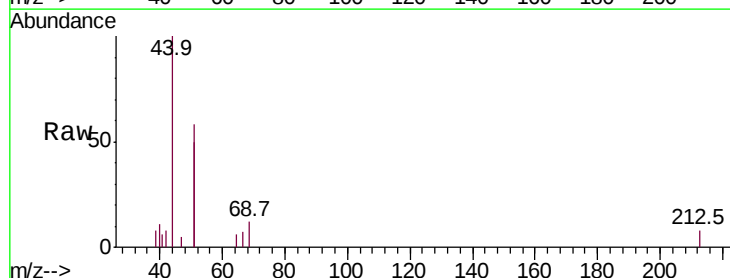
Acq: 21 Dec 2021 22:16

Tgt Ion: 51 Resp: 6782

Ion Ratio Lower Upper

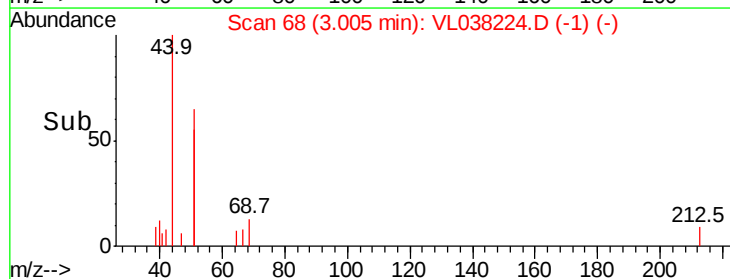
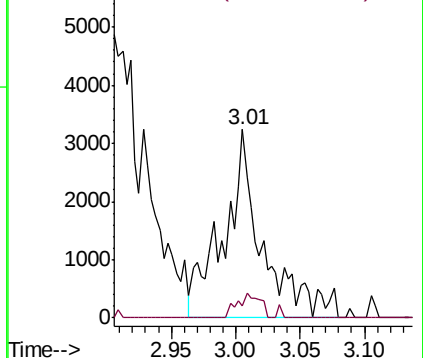
51 100

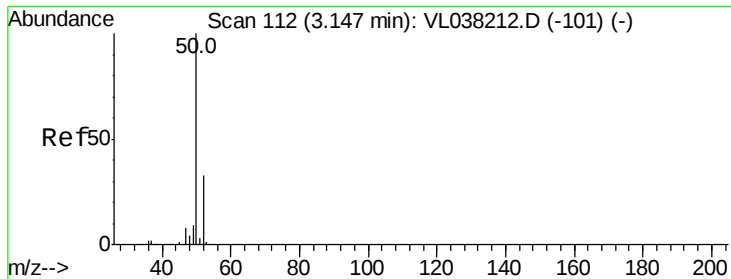
67 8.2 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

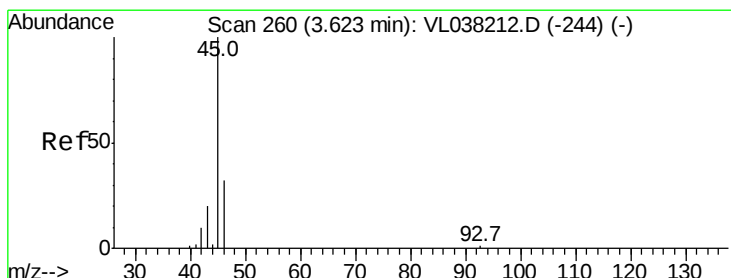
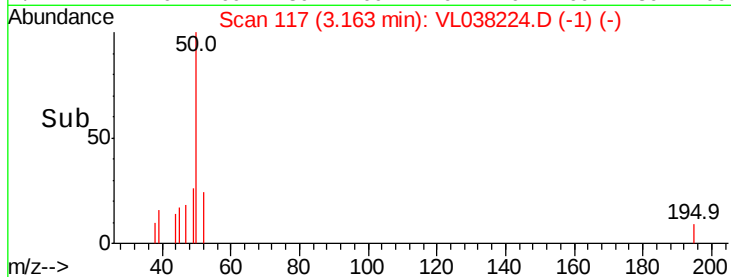
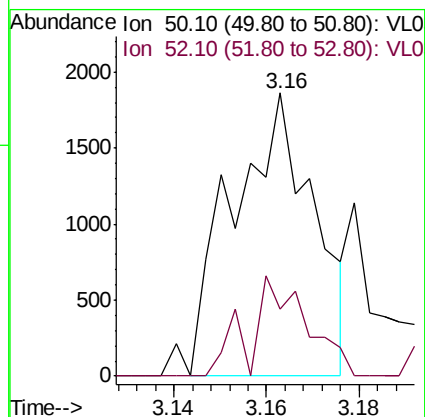
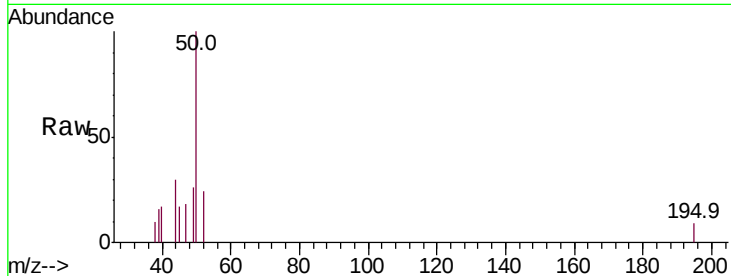
Ion 67.00 (66.70 to 67.70): VL0





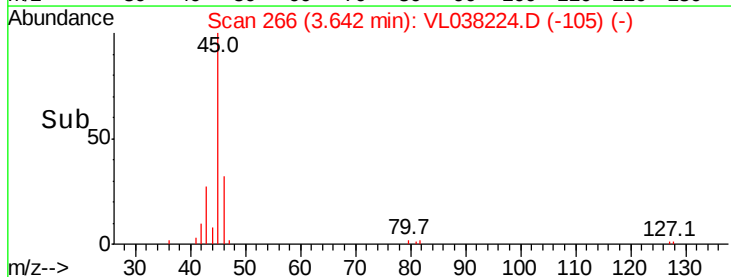
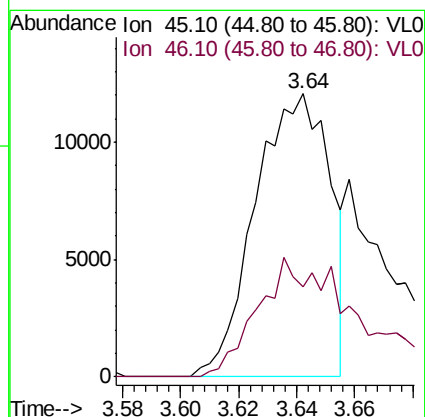
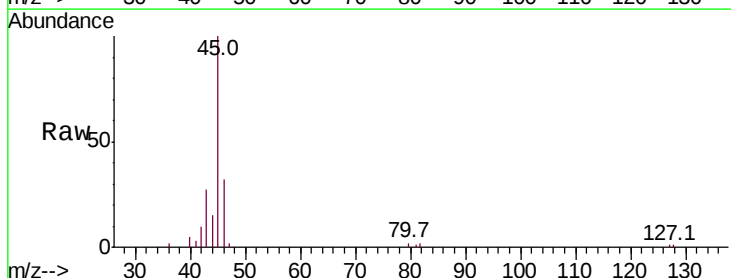
#4
Chloromethane
Concen: 0.042 ppbv
RT: 3.16
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 21 Dec 2021 22:16

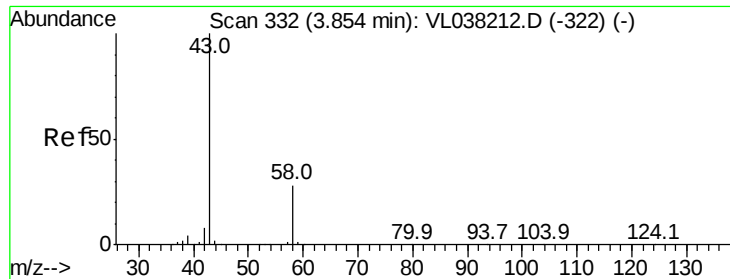
Tot Ion: 50 Resp: 2262
Ion Ratio Lower Upper
50 100
52 23.6 26.2 39.2#



#13
Ethanol
Concen: 2.357 ppbv
RT: 3.64 min Scan# 266
Delta R.T. 0.02 min
Lab File: VL038224.D
Acq: 21 Dec 2021 22:16

Tgt Ion: 45 Resp: 21620
Ion Ratio Lower Upper
45 100
46 65.1 0.0 0.0#





#15

Acetone

Concen: 0.308 ppbv

RT: 3.88 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

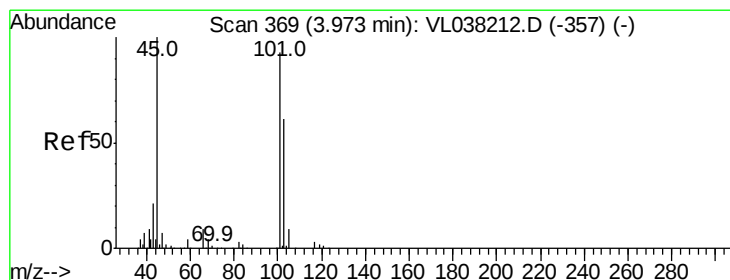
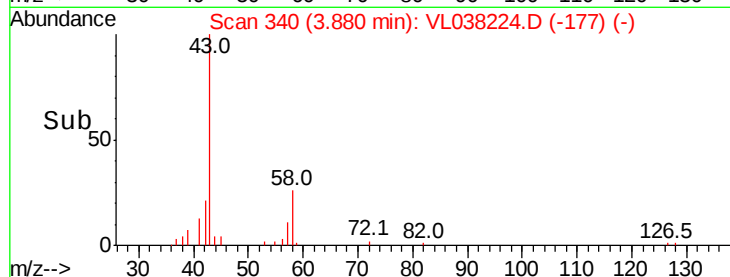
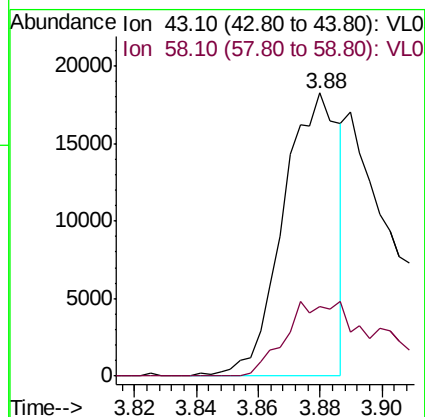
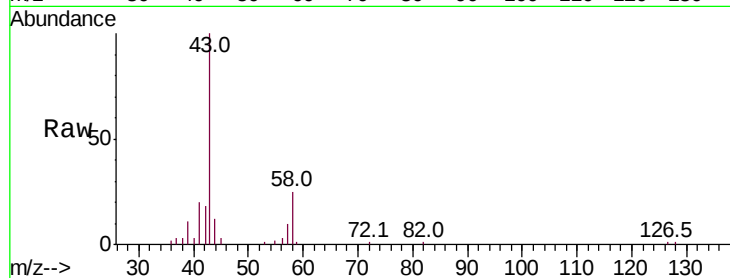
Acq: 21 Dec 2021 22:16

Tot Ion: 43 Resp: 22904

Ion Ratio Lower Upper

43 100

58 0.0 23.3 34.9#



#19

Isopropyl Alcohol

Concen: 0.177 ppbv

RT: 4.01 min Scan# 380

Delta R.T. 0.04 min

Lab File: VL038224.D

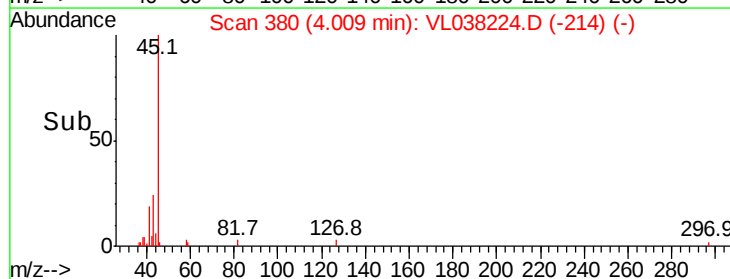
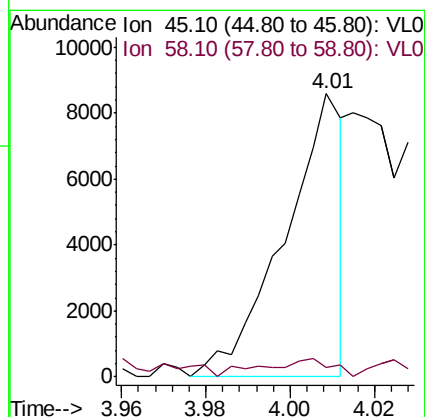
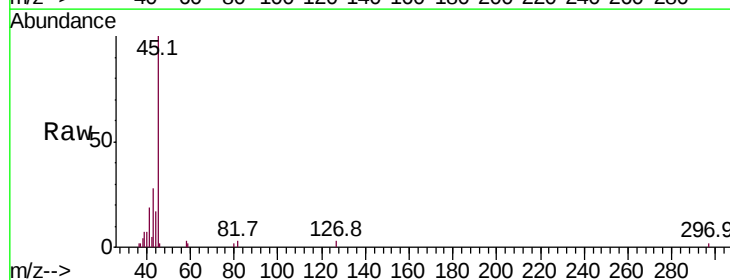
Acq: 21 Dec 2021 22:16

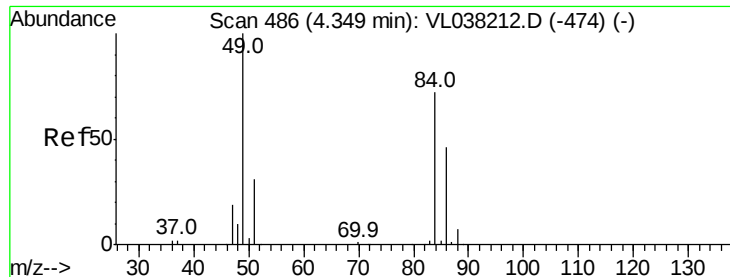
Tgt Ion: 45 Resp: 8214

Ion Ratio Lower Upper

45 100

58 14.4 32.4 48.6#





#20

Methvlene Chloride

Concen: 1.979 ppbv

RT: 4.36 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 21 Dec 2021 22:16

Tot Ion: 84 Resp: 83132

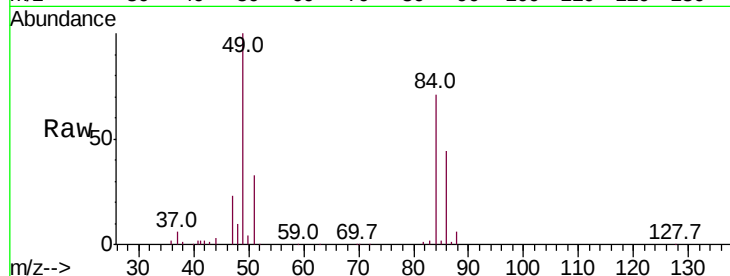
Ion Ratio Lower Upper

84 100

49 140.3 110.6 166.0

51 46.7 34.2 51.2

86 62.1 50.5 75.7

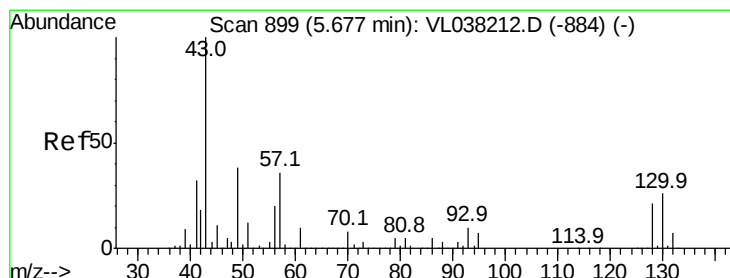
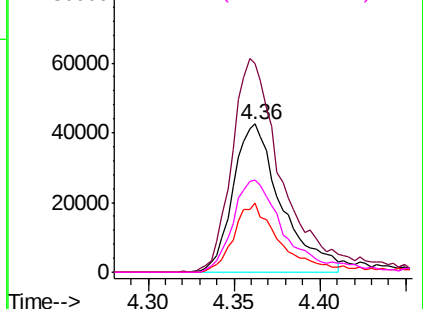
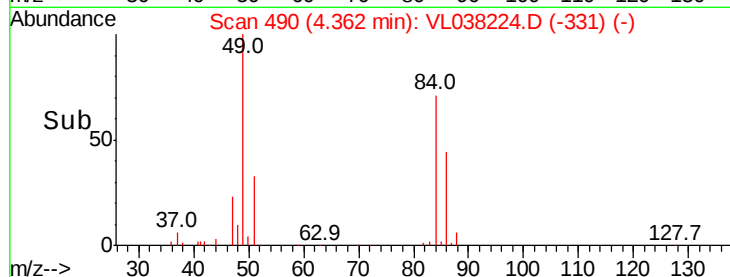


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.165 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.03 min

Lab File: VL038224.D

Acq: 21 Dec 2021 22:16

Tgt Ion: 43 Resp: 33314

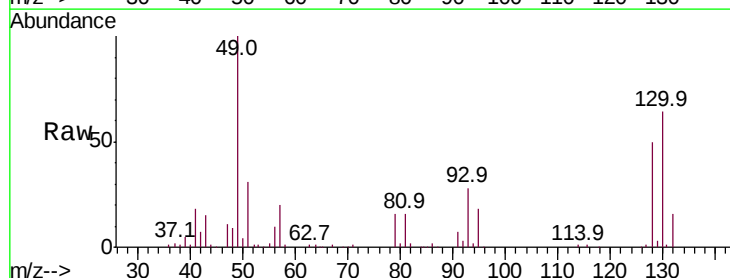
Ion Ratio Lower Upper

43 100

45 0.6 7.9 11.9#

61 0.7 8.1 12.1#

70 2.0 5.5 8.3#

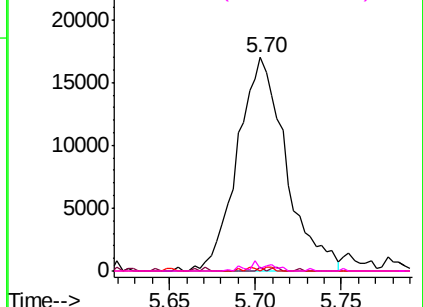
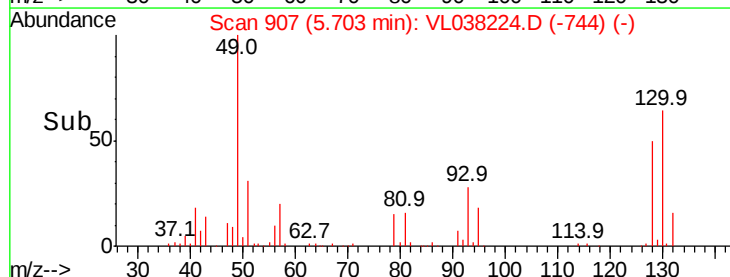


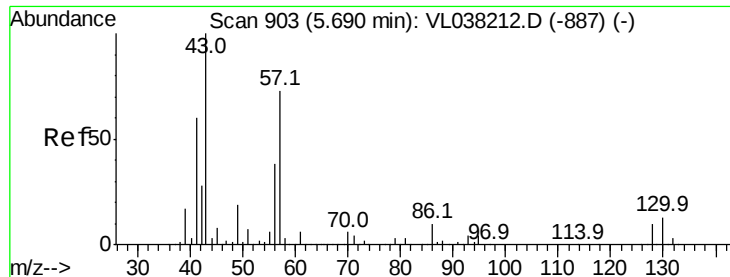
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.436 ppbv

RT: 5.70 Instrument:

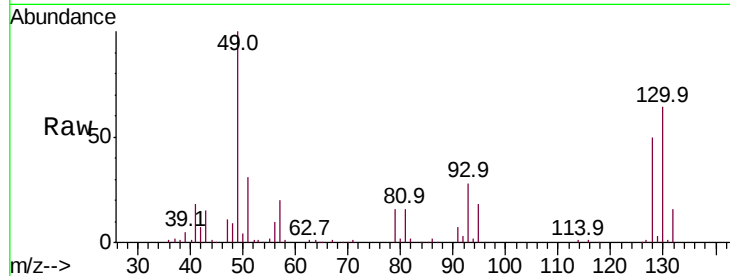
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

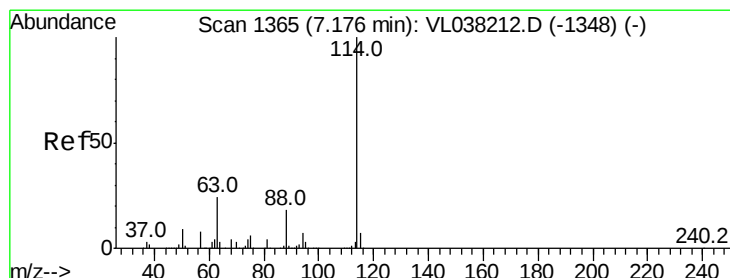
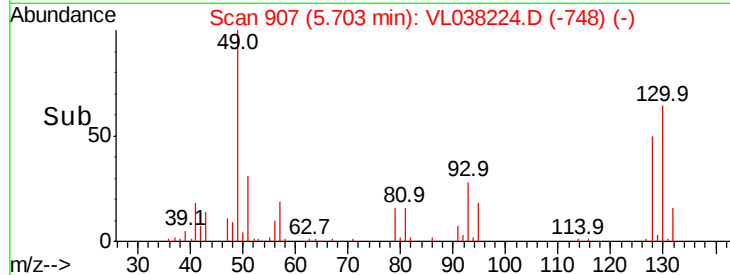
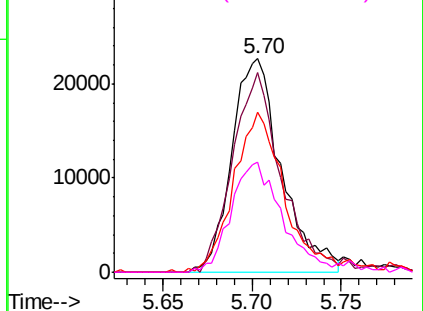
Acq: 21 Dec 2021 22:16

Tot Ion: 57 Resp: 44063

Ion	Ratio	Lower	Upper
57	100		
41	95.2	69.0	103.6
43	80.0	171.2	256.8#
56	56.3	41.5	62.3



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

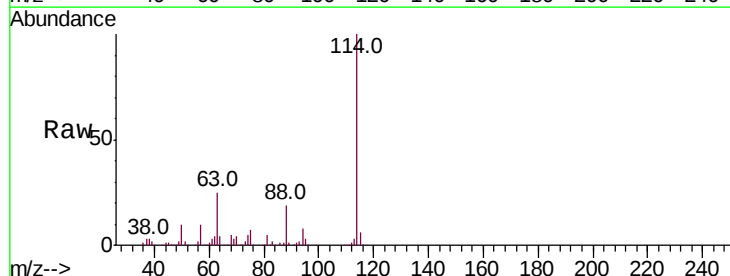
Delta R.T. 0.01 min

Lab File: VL038224.D

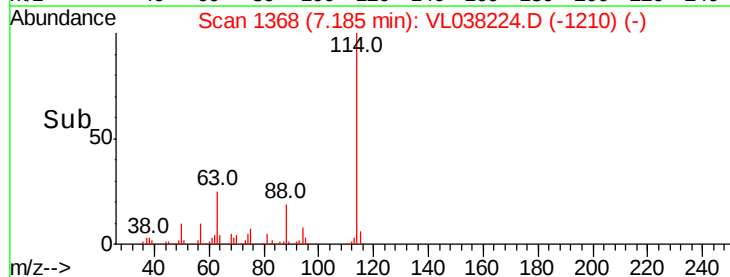
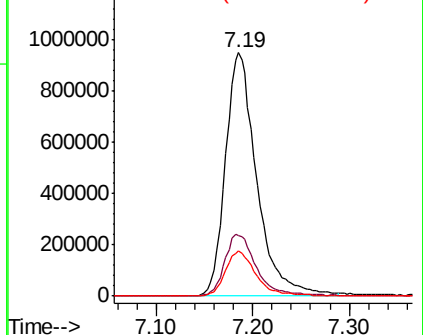
Acq: 21 Dec 2021 22:16

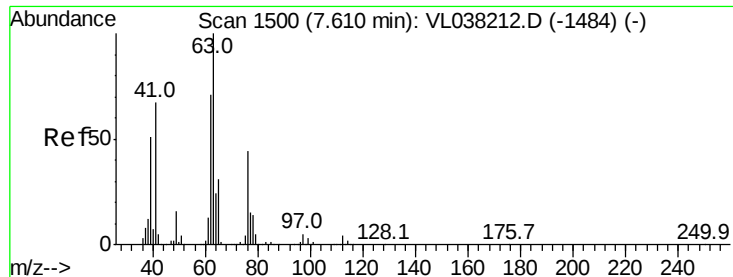
Tgt Ion:114 Resp: 2134452

Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.7	29.5
88	18.4	14.3	21.5



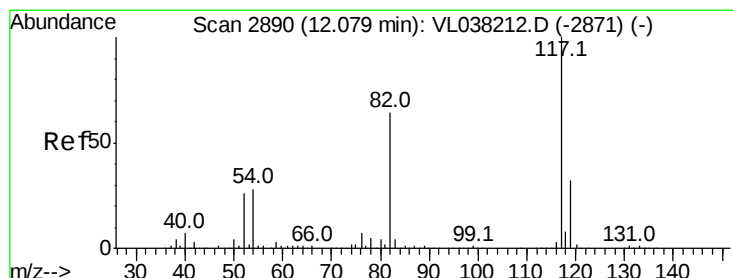
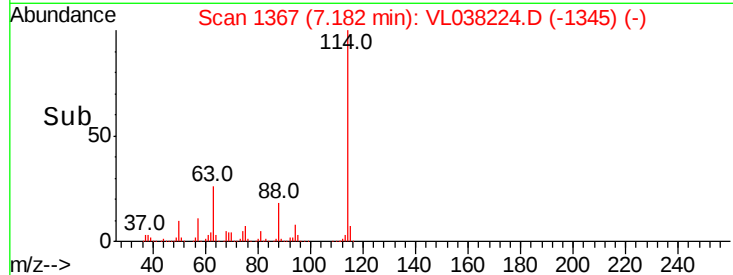
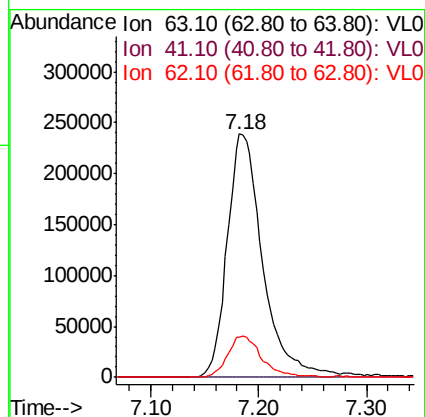
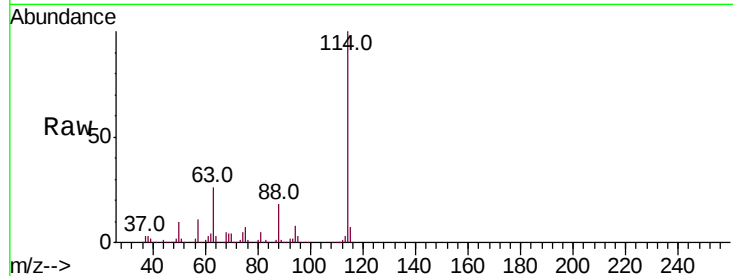
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





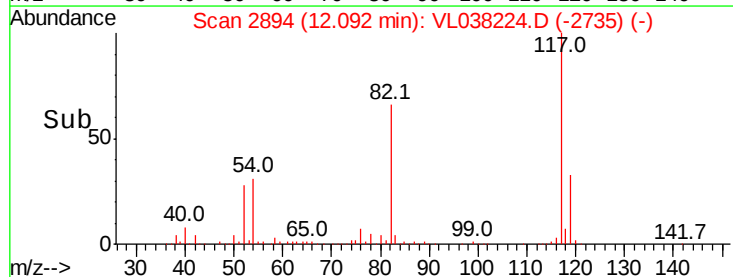
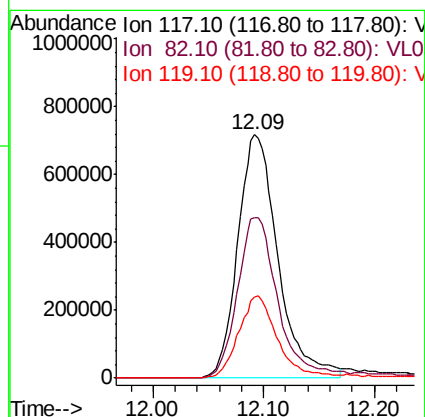
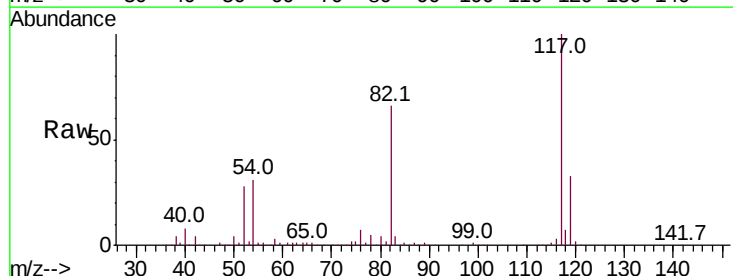
#39
 1,2-Dichloropropane
 Concen: 7.148 ppbv
 RT: 7.18
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Dec 2021 22:16

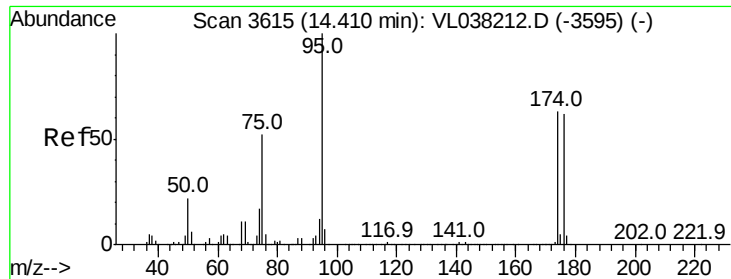
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.4	80.2#
62	16.5	56.5	84.7#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2894
 Delta R.T.: 0.01 min
 Lab File: VL038224.D
 Acq: 21 Dec 2021 22:16

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.5	53.3	79.9
119	33.8	25.5	38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.332 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 22:10

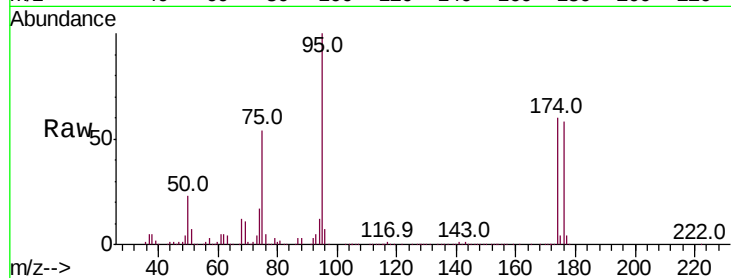
Tot Ion: 95 Resp: 1446541

Ion Ratio Lower Upper

95 100

174 63.3 54.6 81.8

175 4.5 4.1 6.1



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

