

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072522\
 Data File : VL039532.D
 Acq On : 26 Jul 2022 1:32
 Operator : SY/AP
 Sample : N3842-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Jul 26 08:07:58 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1002187	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2825587	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2418647	10.00	ppbv	0.02

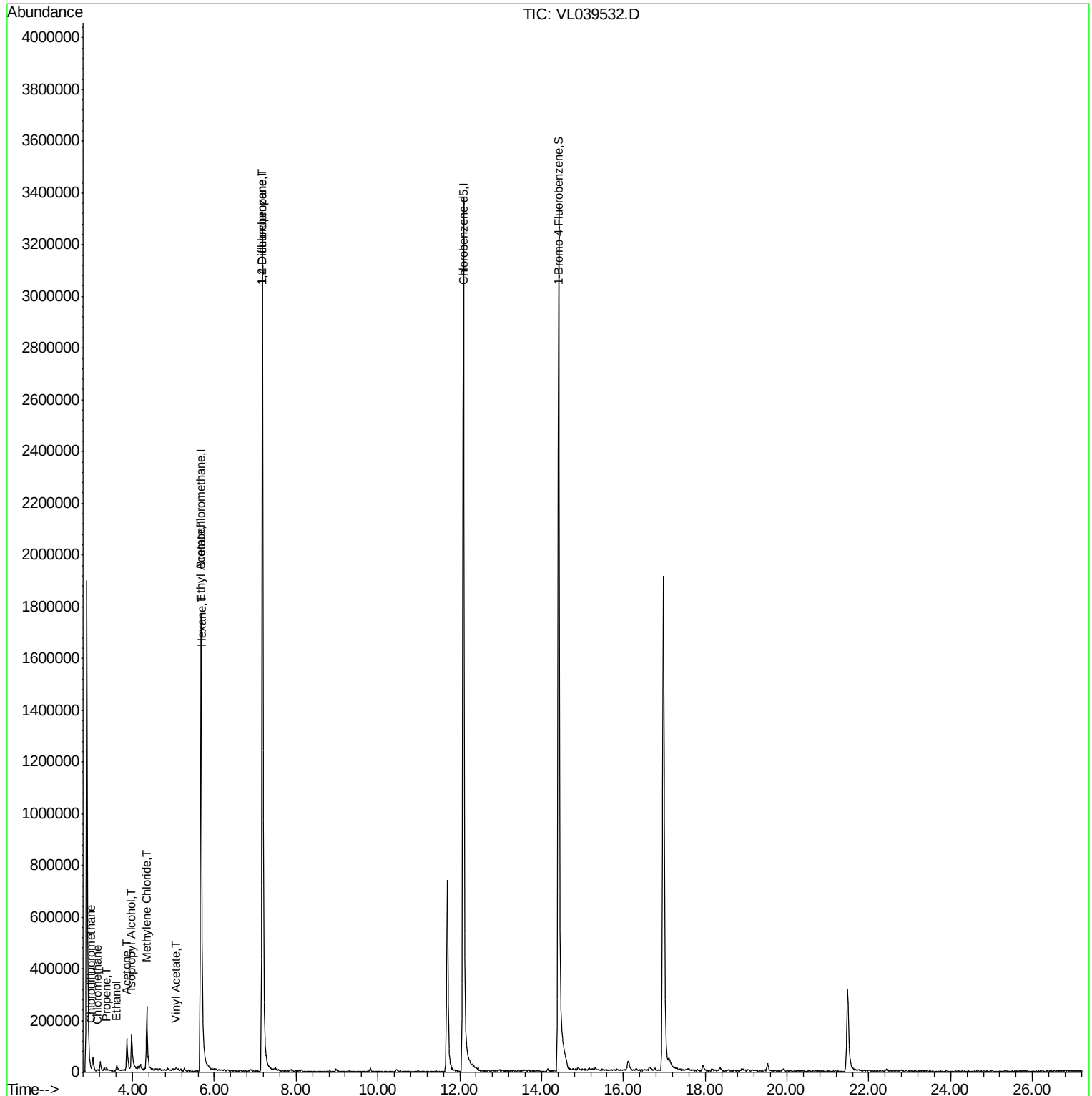
System Monitoring Compounds

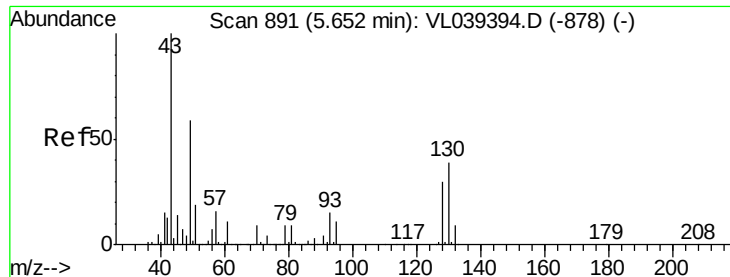
68) 1-Bromo-4-Fluorobenzene	14.42	95	1773351	9.88	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	8686	0.068	ppbv	95
4) Chloromethane	3.15	50	3513	0.051	ppbv	95
9) Propene	3.36	41	3868	0.067	ppbv	84
13) Ethanol	3.61	45	11786	3.538	ppbv #	23
15) Acetone	3.86	43	168913	1.425	ppbv	95
19) Isopropyl Alcohol	3.98	45	175137	2.769	ppbv	100
20) Methylene Chloride	4.35	84	89149	1.886	ppbv	86
23) Vinyl Acetate	5.08	43	2829	0.036	ppbv #	77
25) Ethyl Acetate	5.69	43	24455	0.101	ppbv #	83
26) Hexane	5.69	57	51173	0.522	ppbv #	45
39) 1,2-Dichloropropane	7.18	63	681856	8.346	ppbv #	26

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 26 Jul 2022 1:32

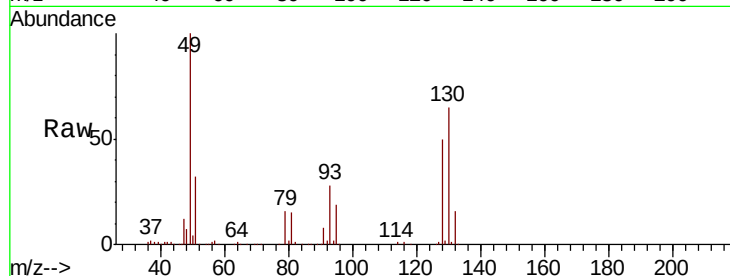
Tot Ion: 49 Resp: 1002187

Ion Ratio Lower Upper

49 100

128 52.6 26.7 80.0

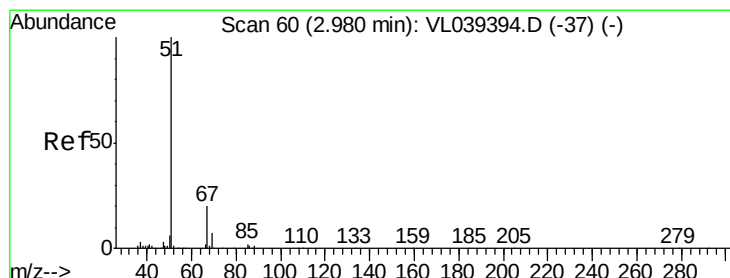
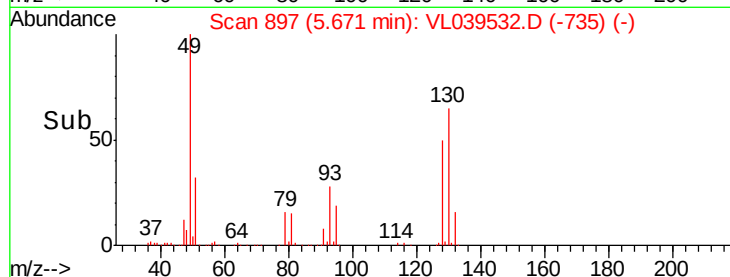
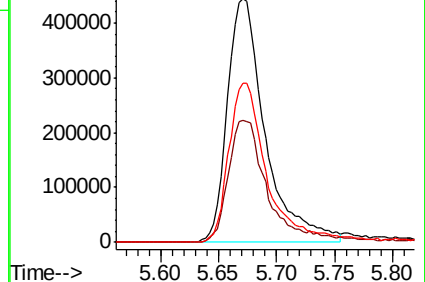
130 68.8 34.3 102.8



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



#3

Chlorodifluoromethane

Concen: 0.068 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL039532.D

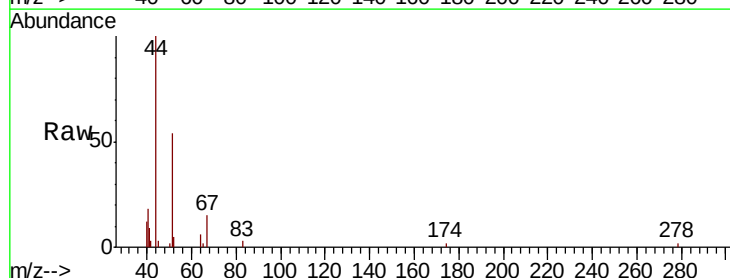
Acq: 26 Jul 2022 1:32

Tgt Ion: 51 Resp: 8686

Ion Ratio Lower Upper

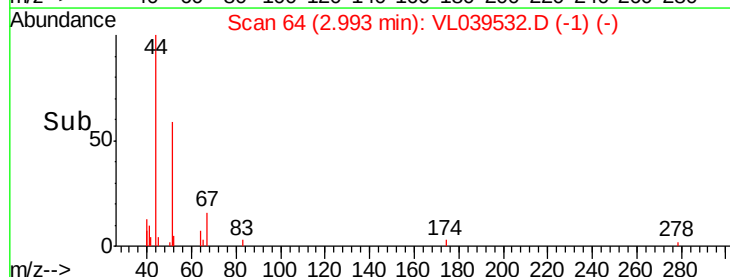
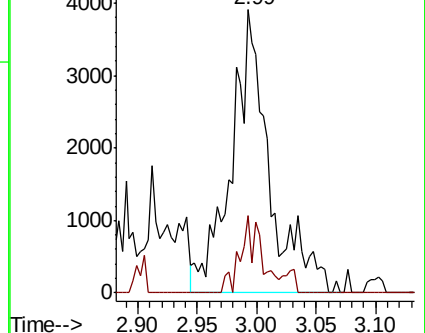
51 100

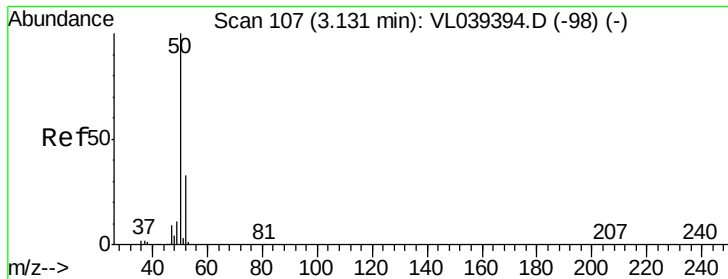
67 17.4 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.051 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

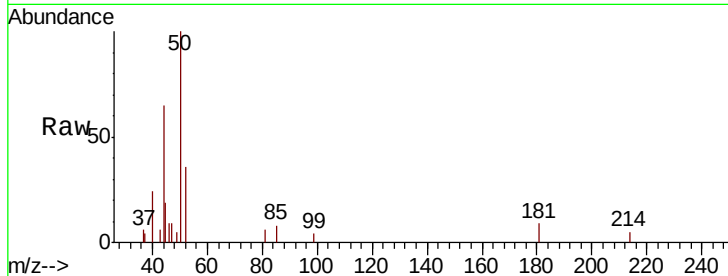
Acq: 26 Jul 2022 1:32

Tot Ion: 50 Resp: 3513

Ion Ratio Lower Upper

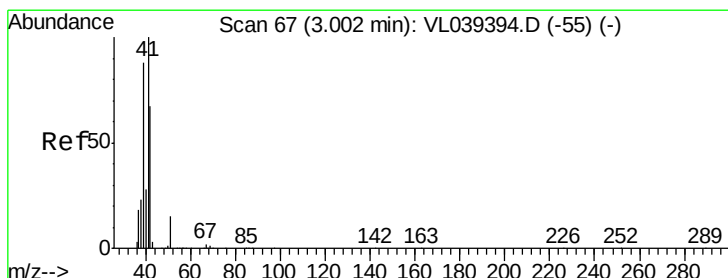
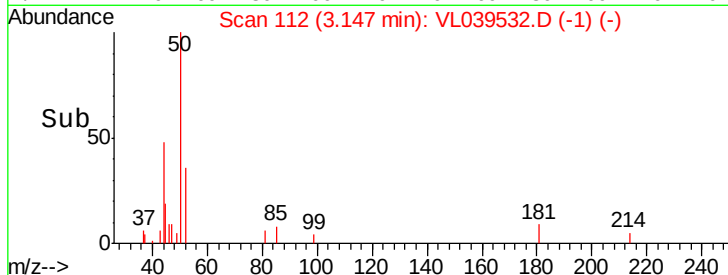
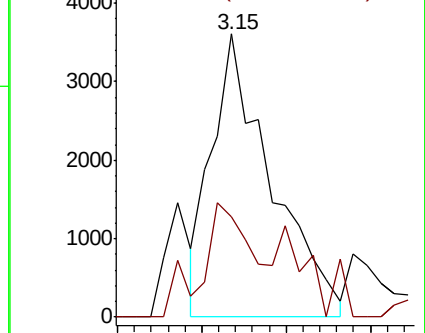
50 100

52 30.0 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.067 ppbv

RT: 3.36 min Scan# 178

Delta R.T. 0.36 min

Lab File: VL039532.D

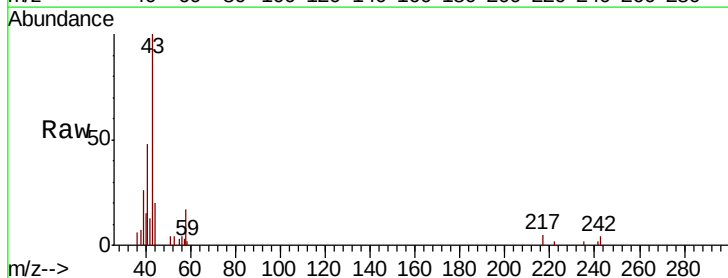
Acq: 26 Jul 2022 1:32

Tgt Ion: 41 Resp: 3868

Ion Ratio Lower Upper

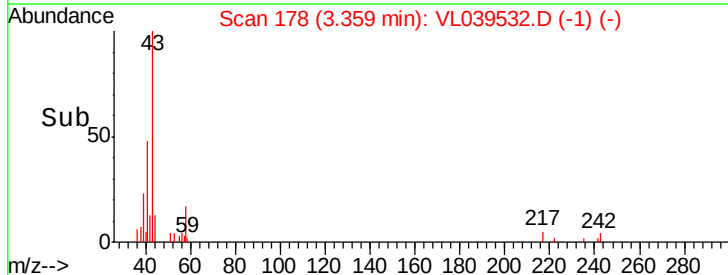
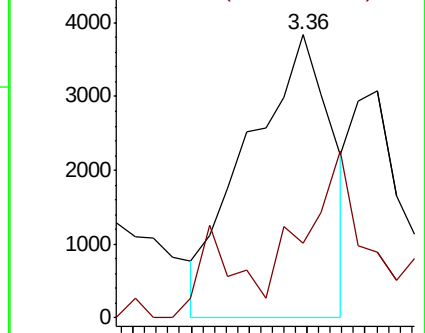
41 100

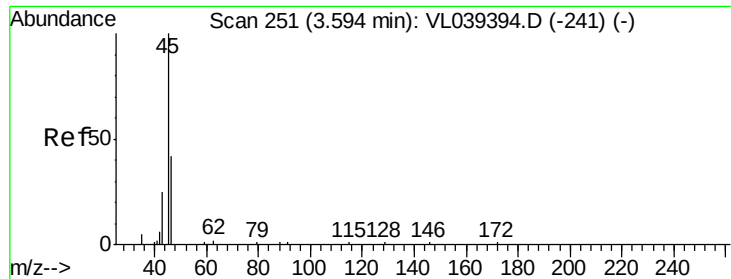
42 81.7 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

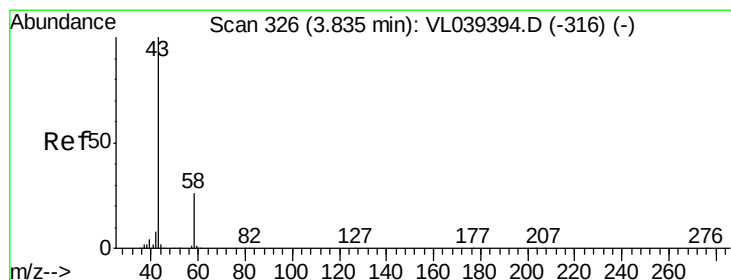
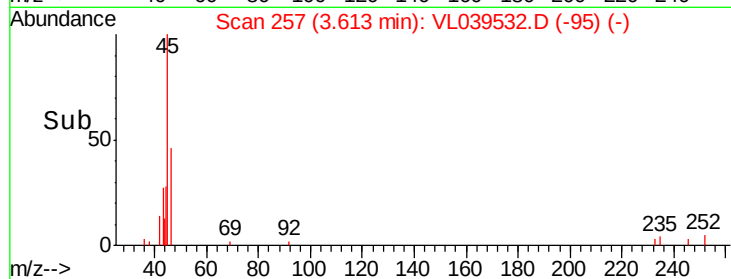
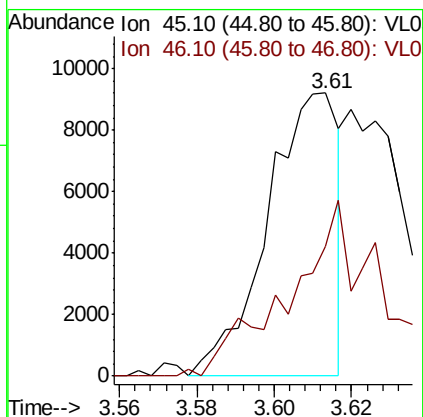
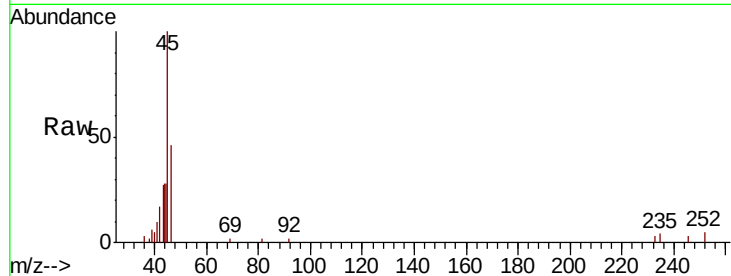
Ion 42.10 (41.80 to 42.80): VL0





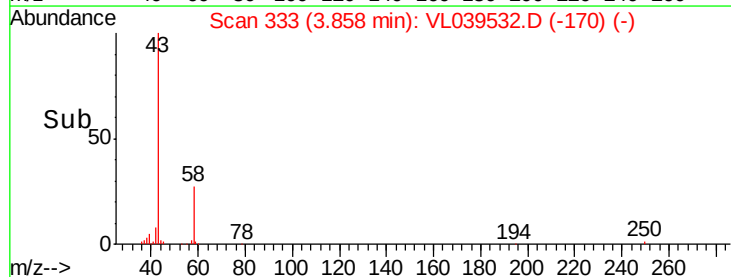
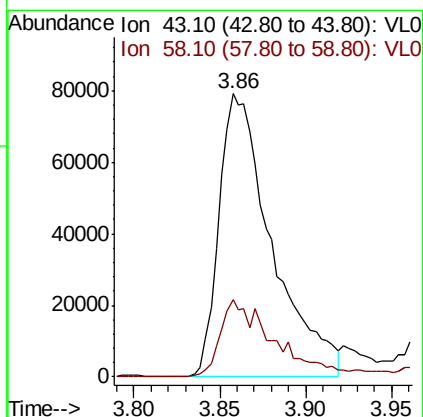
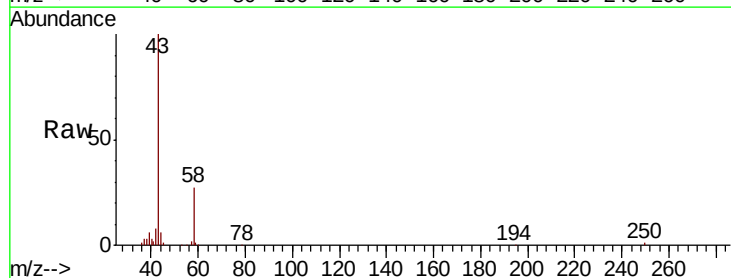
#13
Ethanol
Concen: 3.538 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 26 Jul 2022 1:32

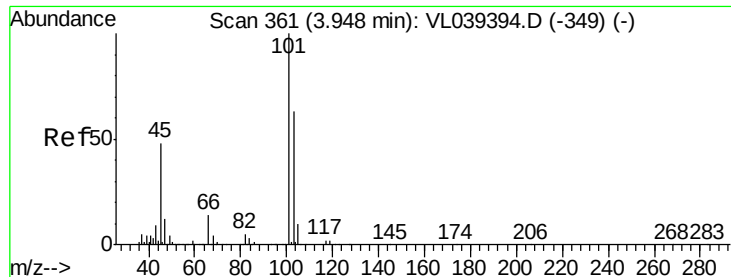
Tot Ion: 45 Resp: 11786
Ion Ratio Lower Upper
45 100
46 114.0 22.8 91.2#



#15
Acetone
Concen: 1.425 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL039532.D
Acq: 26 Jul 2022 1:32

Tgt Ion: 43 Resp: 168913
Ion Ratio Lower Upper
43 100
58 28.7 21.0 31.6





#19

Isopropyl Alcohol

Concen: 2.769 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1DL

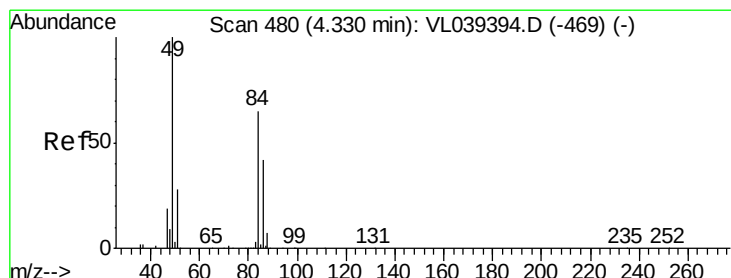
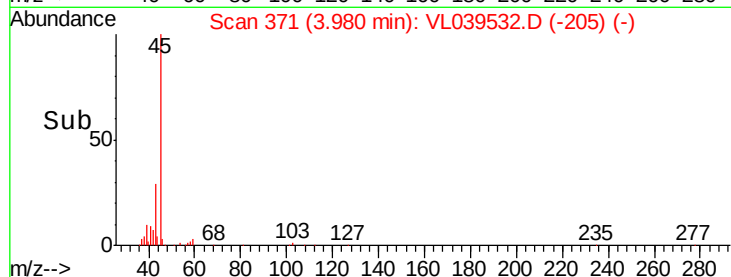
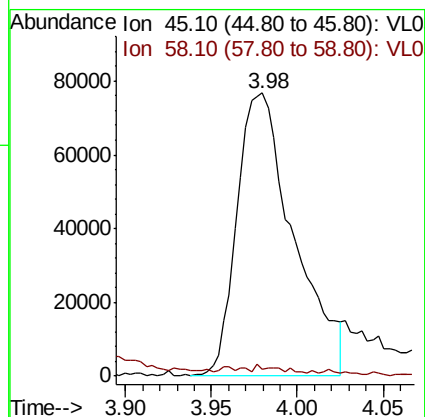
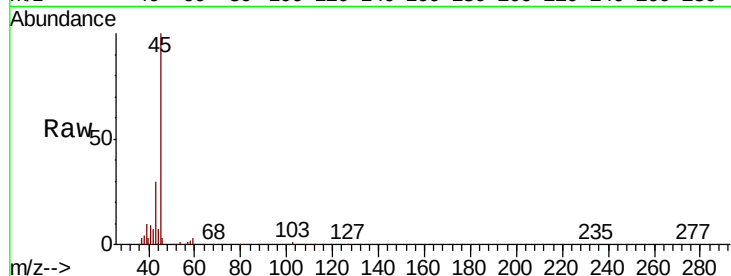
Acq: 26 Jul 2022 1:32

Tot Ion: 45 Resp: 175137

Ion Ratio Lower Upper

45 100

58 3.9 3.2 4.8



#20

Methylene Chloride

Concen: 1.886 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL039532.D

Acq: 26 Jul 2022 1:32

Tgt Ion: 84 Resp: 89149

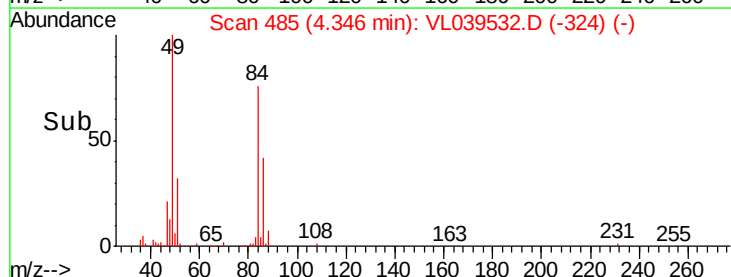
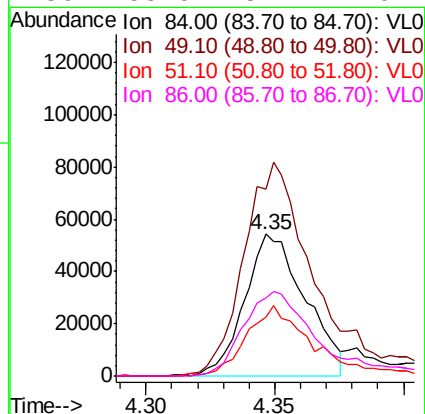
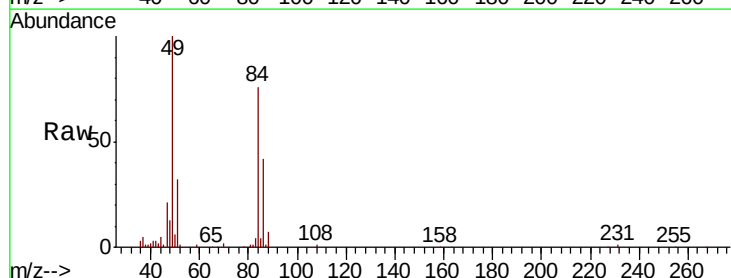
Ion Ratio Lower Upper

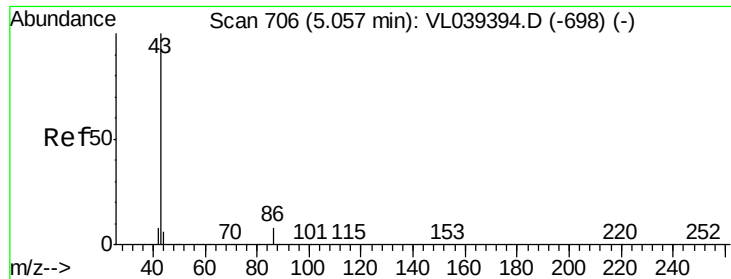
84 100

49 129.9 123.1 184.7

51 40.3 34.4 51.6

86 55.0 51.1 76.7





#23

Vinyl Acetate

Concen: 0.036 ppbv

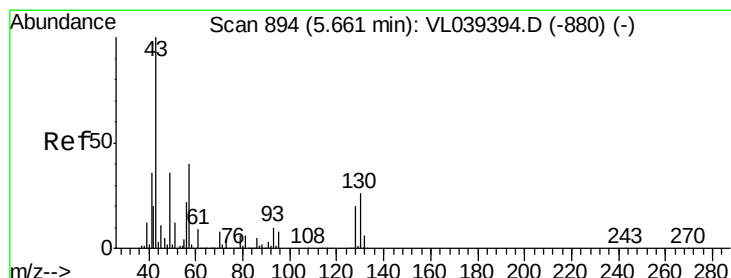
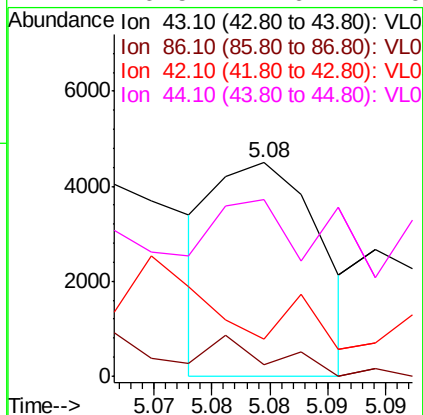
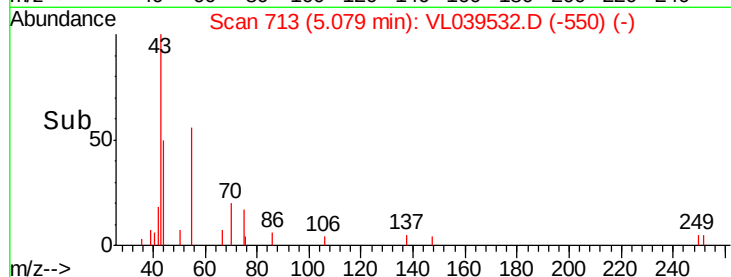
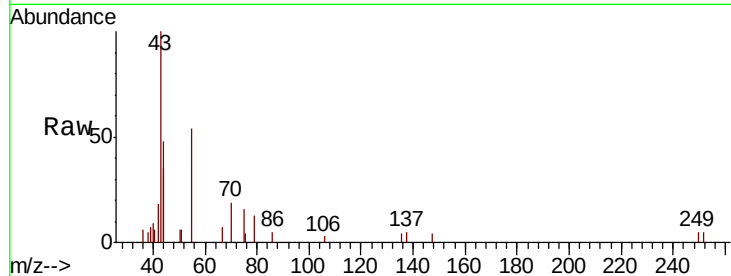
RT: 5.08 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 26 Jul 2022 1:32

Tot Ion:	43	Resp:	2829
Ion	Ratio	Lower	Upper
43	100		
86	5.4	5.0	7.6
42	5.1	7.7	11.5#
44	26.5	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.101 ppbv

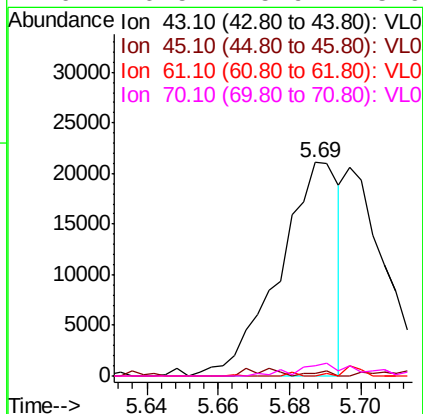
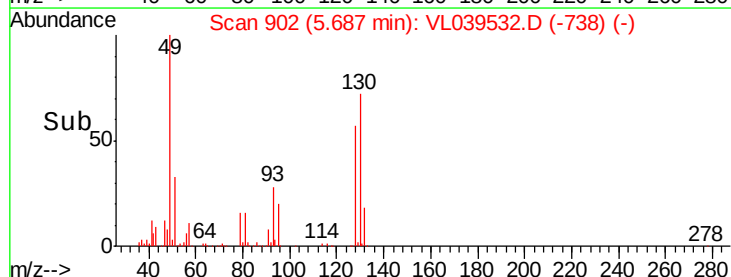
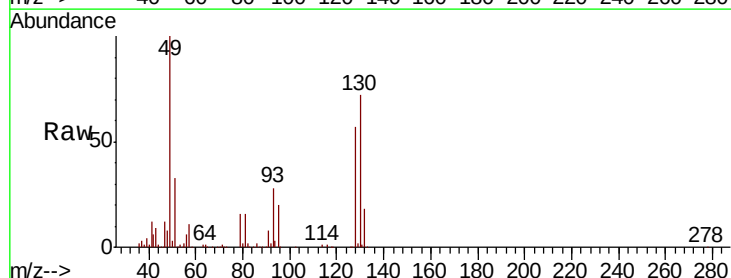
RT: 5.69 min Scan# 902

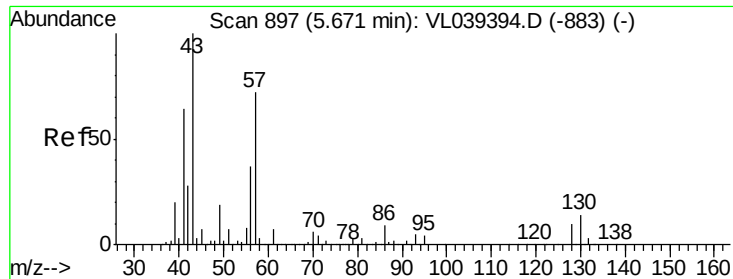
Delta R.T. 0.03 min

Lab File: VL039532.D

Acq: 26 Jul 2022 1:32

Tgt Ion:	43	Resp:	24455
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.2	12.4#
61	0.0	8.3	12.5#
70	6.5	5.9	8.9





#26

Hexane

Concen: 0.522 ppbv

RT: 5.69 Instrument:

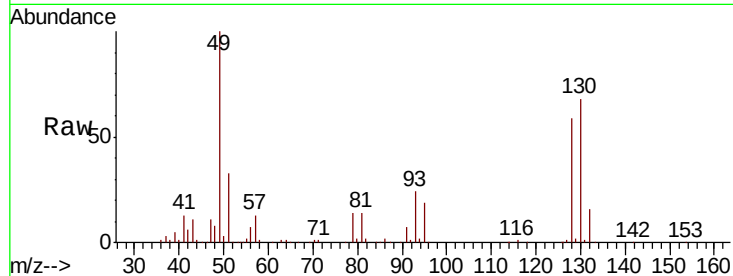
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

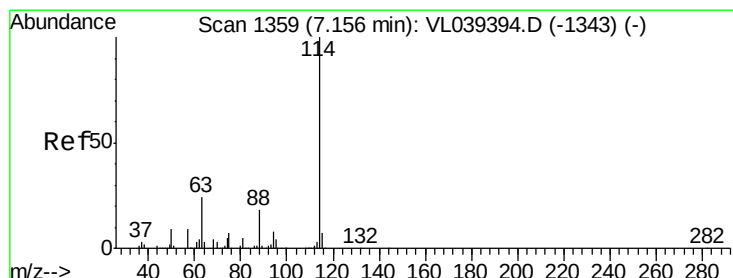
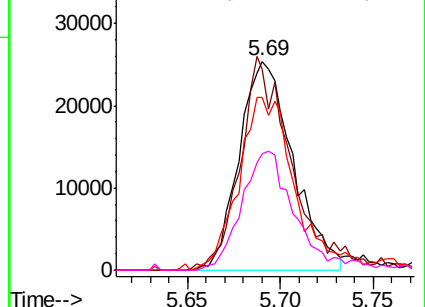
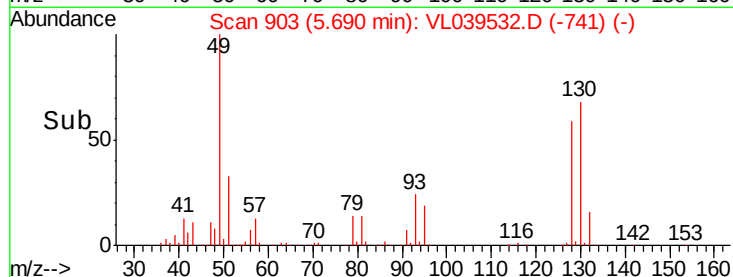
Acq: 26 Jul 2022 1:32

Tot Ion: 57 Resp: 51173

Ion	Ratio	Lower	Upper
57	100		
41	97.9	76.9	115.3
43	91.3	191.0	286.6#
56	57.9	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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

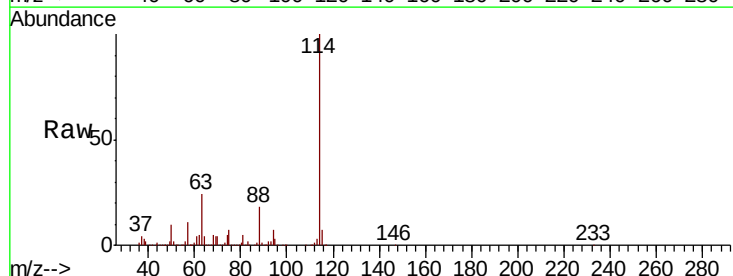
Delta R.T. 0.02 min

Lab File: VL039532.D

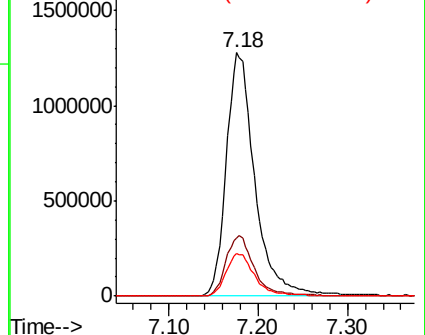
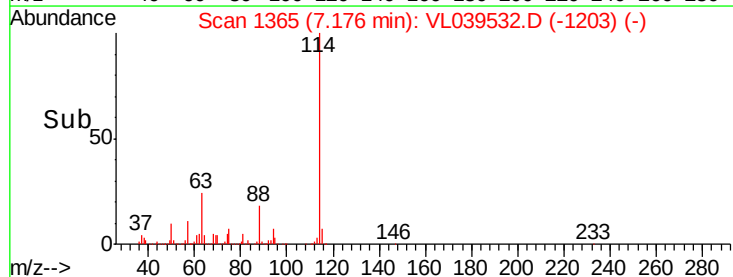
Acq: 26 Jul 2022 1:32

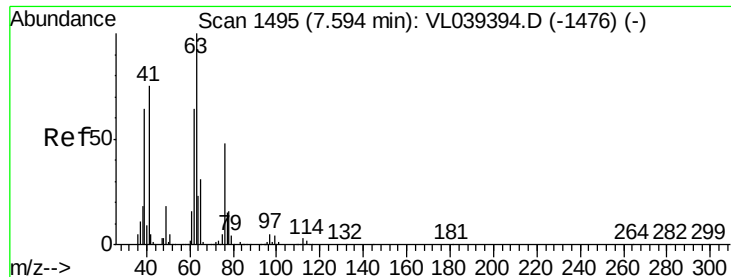
Tgt Ion: 114 Resp: 2825587

Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.2	30.4
88	17.9	14.5	21.7



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: 8.346 ppbv

RT: 7.18 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 26 Jul 2022 1:32

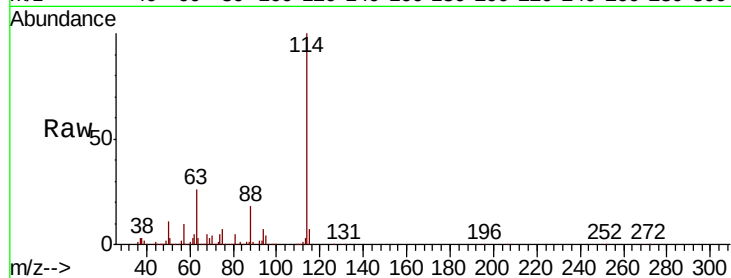
Tot Ion: 63 Resp: 681856

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

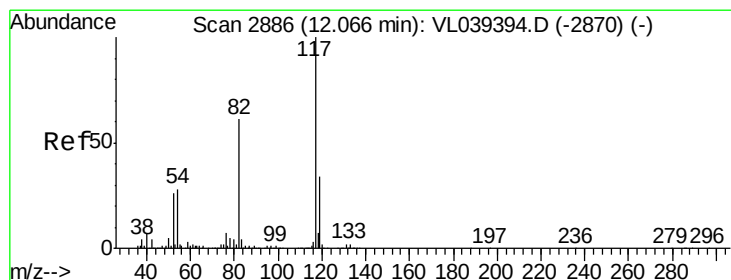
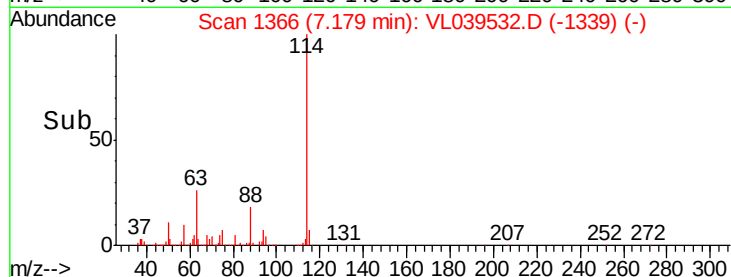
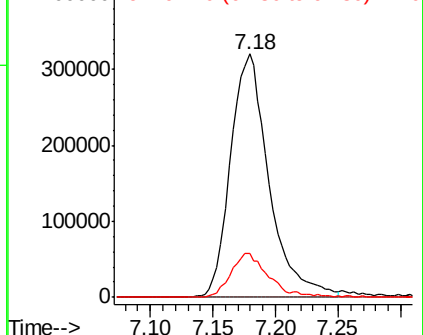
62 18.0 51.4 77.0#



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: 12.09 min Scan# 2893

Delta R.T. 0.02 min

Lab File: VL039532.D

Acq: 26 Jul 2022 1:32

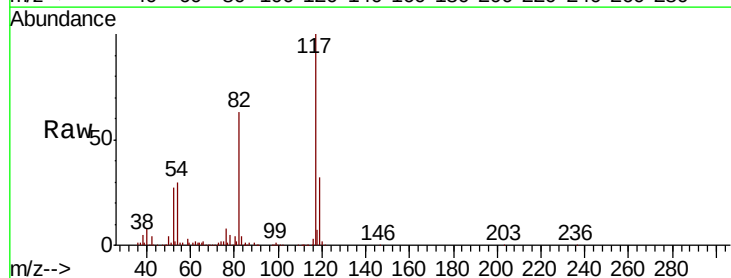
Tgt Ion: 117 Resp: 2418647

Ion Ratio Lower Upper

117 100

82 65.3 50.8 76.2

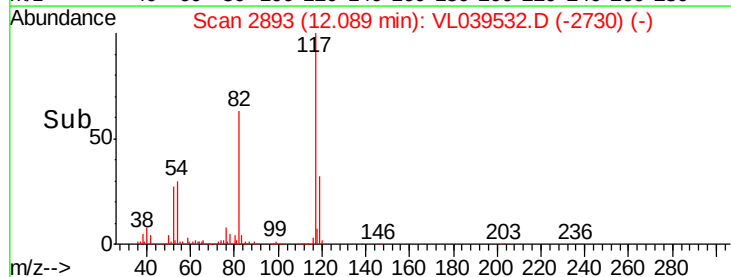
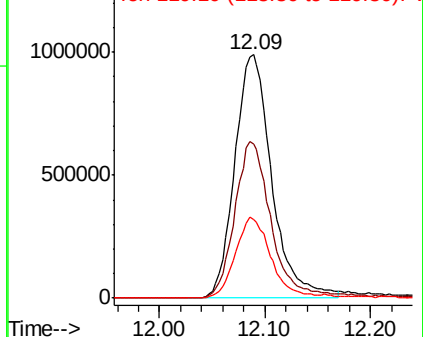
119 33.4 24.1 36.1

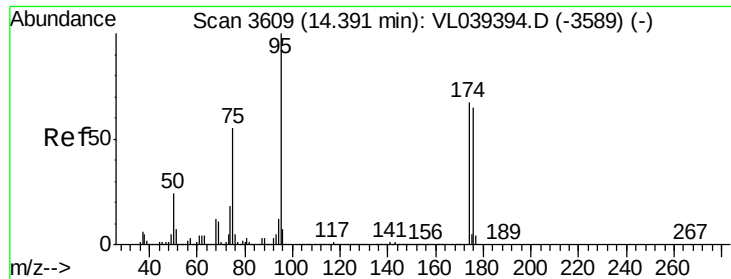


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.883 ppbv

RT: 14.42 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 26 Jul 2022 1:32

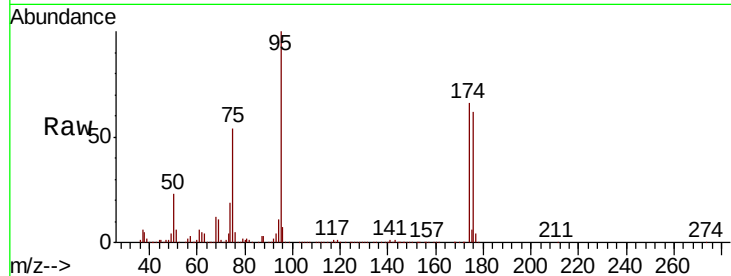
Tot Ion: 95 Resp: 1773351

Ion Ratio Lower Upper

95 100

174 71.4 55.9 83.9

175 5.1 4.2 6.4



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

