

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039095.D
 Acq On : 23 May 2022 22:24
 Operator : SY/AP
 Sample : N2956-03DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-2DL

Quant Time: May 24 06:02:10 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1137297	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.15	114	2604884	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2174903	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1833259	10.64	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

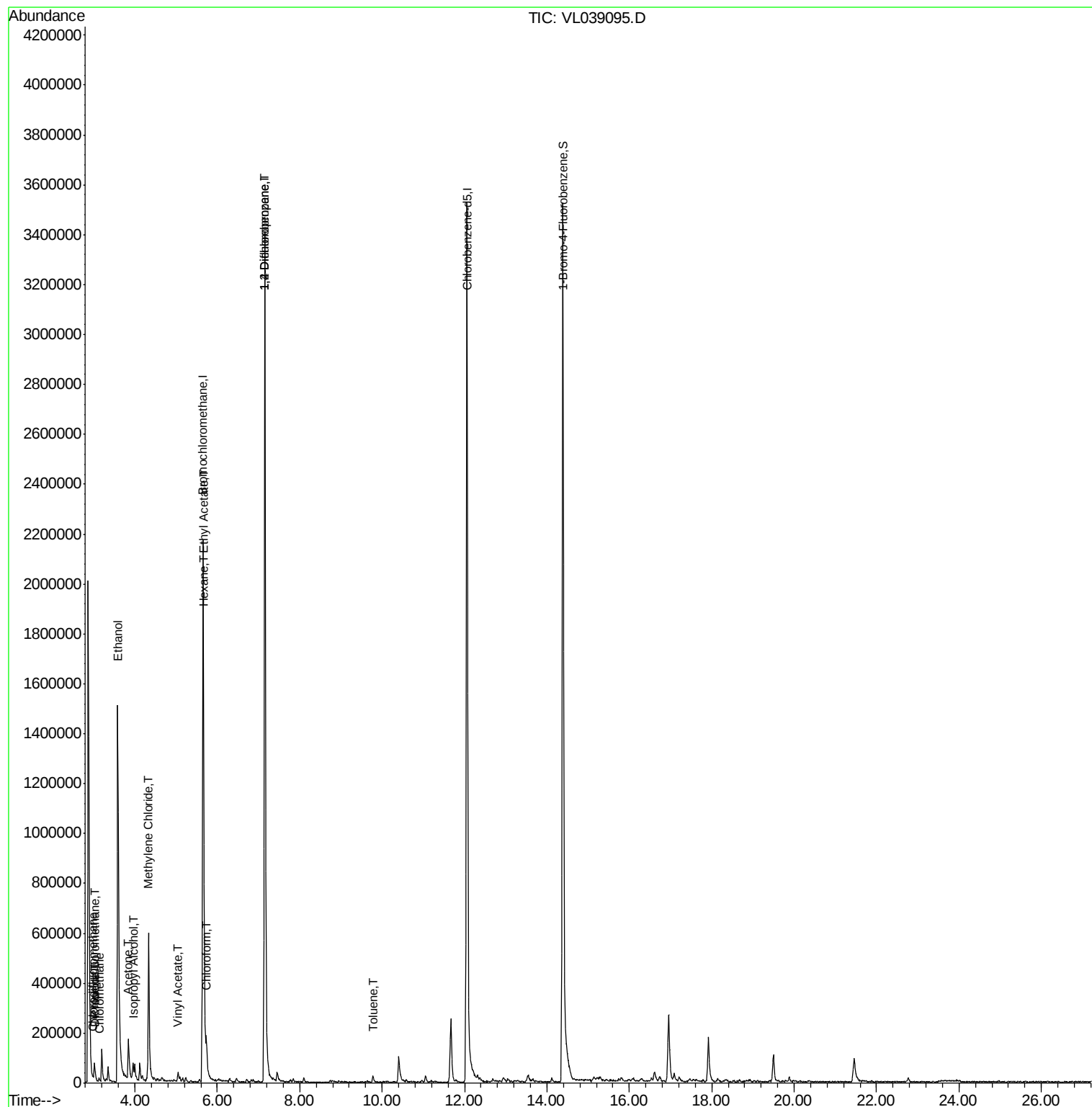
Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.04	85	14967	0.084	ppbv	89
3) Chlorodifluoromethane	2.99	51	23705	0.168	ppbv #	91
4) Chloromethane	3.14	50	7275	0.103	ppbv #	60
9) Propene	3.01	41	17829	0.289	ppbv #	76
13) Ethanol	3.59	45	1989236	456.099	ppbv	89
15) Acetone	3.84	43	199430	1.859	ppbv #	90
19) Isopropyl Alcohol	3.96	45	59343	1.163	ppbv #	84
20) Methylene Chloride	4.33	84	238991	5.911	ppbv	94
23) Vinyl Acetate	5.05	43	31411	0.370	ppbv #	90
25) Ethyl Acetate	5.67	43	137874	0.537	ppbv #	82
26) Hexane	5.67	57	183155	1.605	ppbv #	42
29) Chloroform	5.74	83	92572	0.502	ppbv	95
39) 1,2-Dichloropropane	7.15	63	730219	8.419	ppbv #	28
53) Toluene	9.78	91	8790	0.035	ppbv #	32

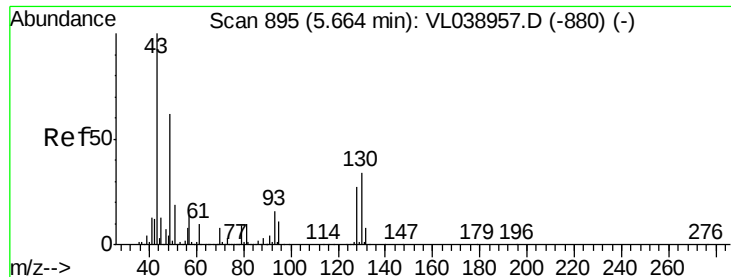
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 23 May 2022 22:24

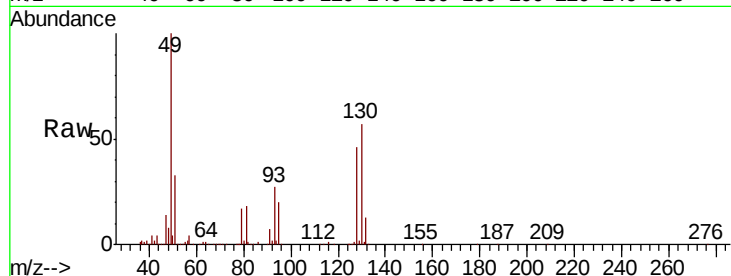
Tot Ion: 49 Resp: 1137297

Ion Ratio Lower Upper

49 100

128 45.0 23.3 69.8

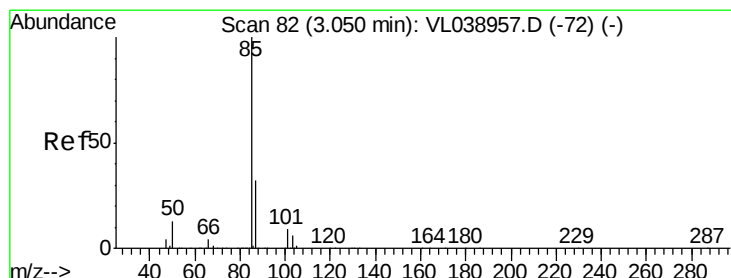
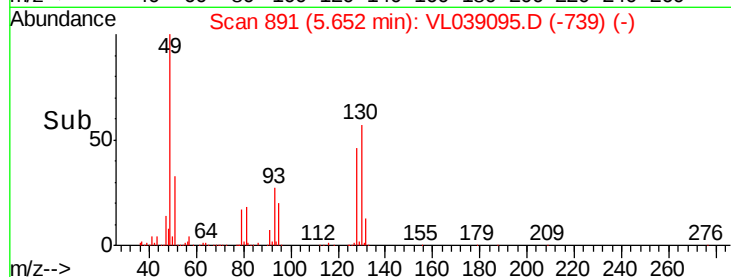
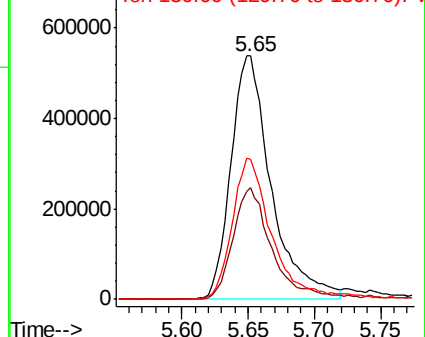
130 59.5 29.8 89.3



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: 0.084 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL039095.D

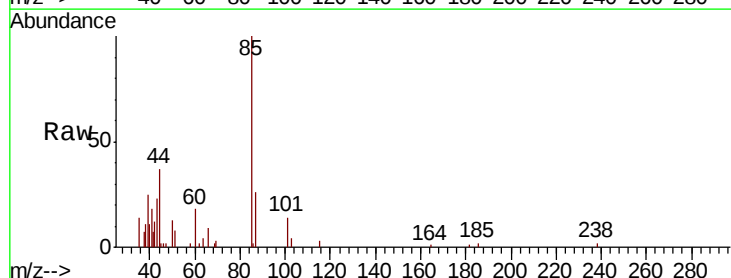
Acq: 23 May 2022 22:24

Tgt Ion: 85 Resp: 14967

Ion Ratio Lower Upper

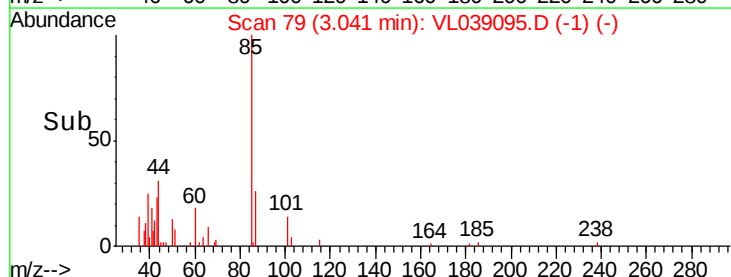
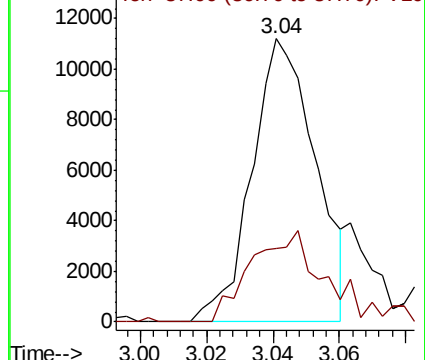
85 100

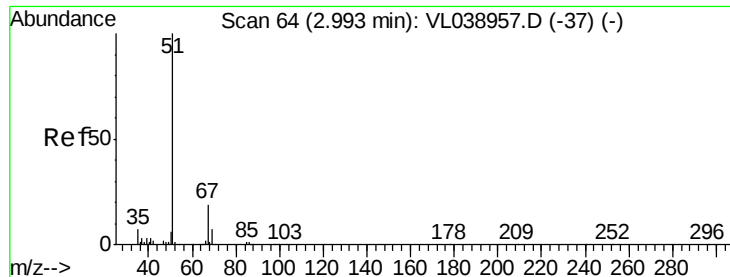
87 26.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.168 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

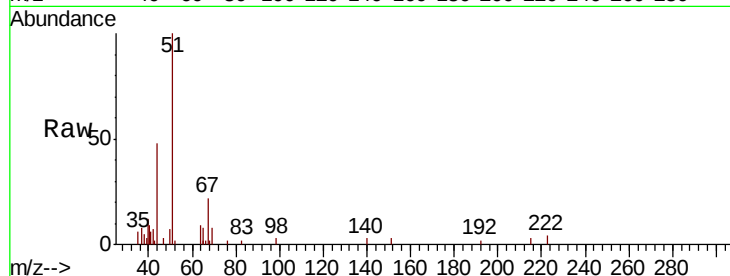
Acq: 23 May 2022 22:24

Tot Ion: 51 Resp: 23705

Ion Ratio Lower Upper

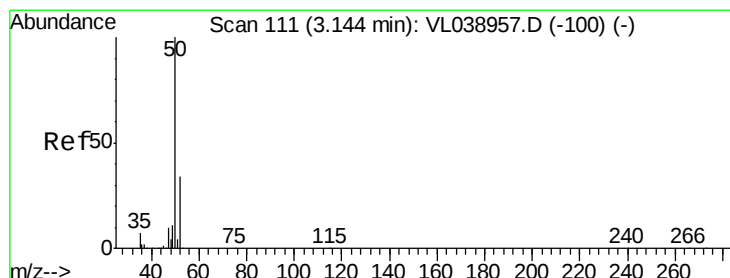
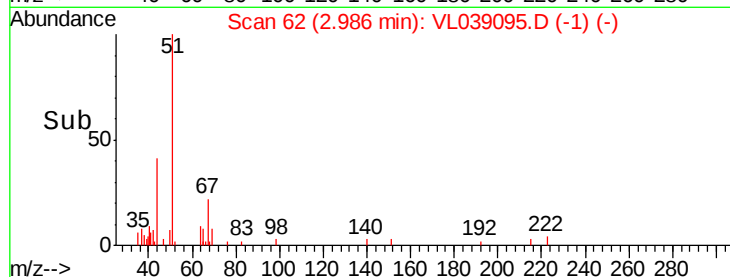
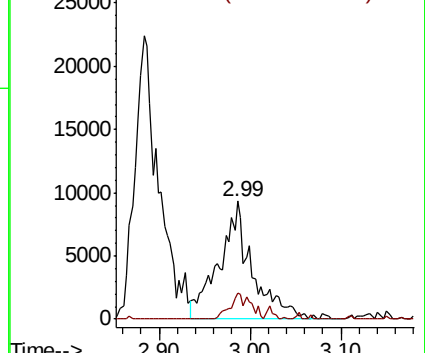
51 100

67 15.6 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.103 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039095.D

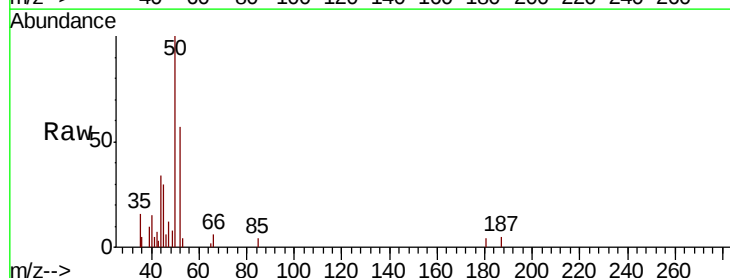
Acq: 23 May 2022 22:24

Tgt Ion: 50 Resp: 7275

Ion Ratio Lower Upper

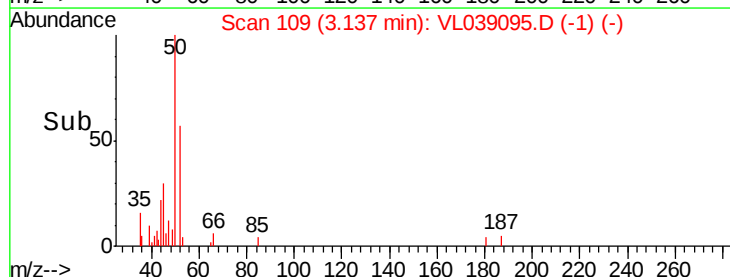
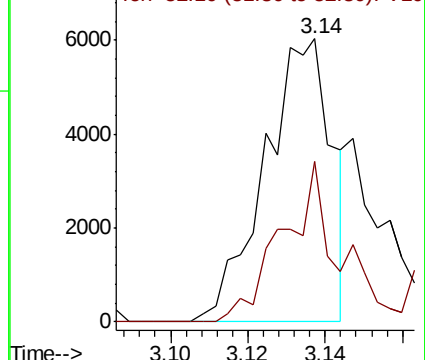
50 100

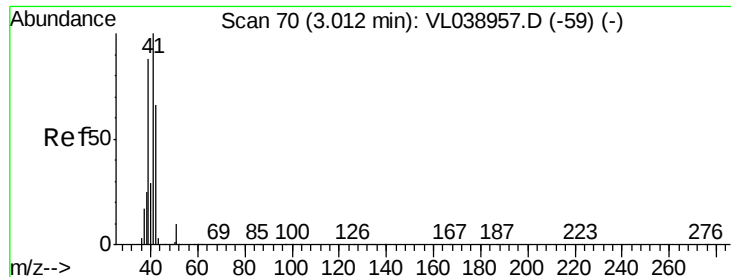
52 56.9 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.289 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

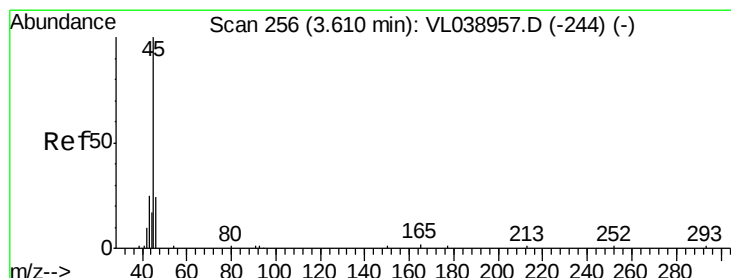
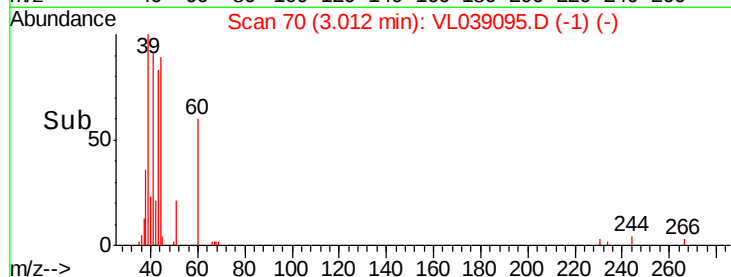
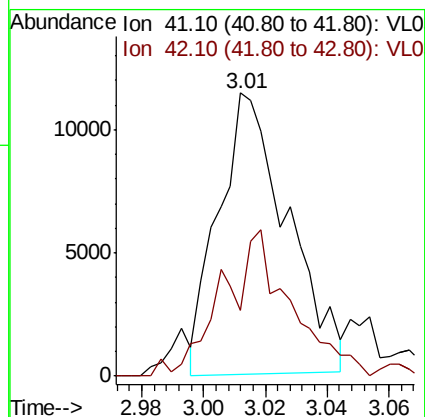
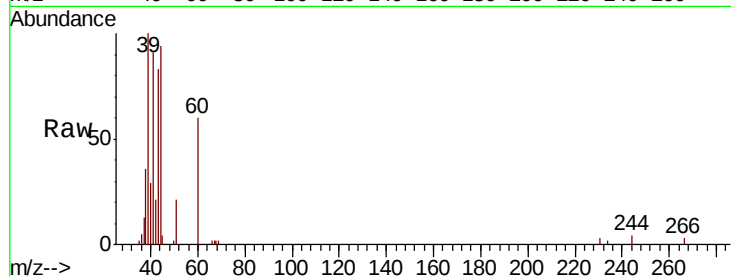
Acq: 23 May 2022 22:24

Tot Ion: 41 Resp: 17829

Ion Ratio Lower Upper

41 100

42 53.1 58.3 87.5#



#13

Ethanol

Concen: 456.099 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL039095.D

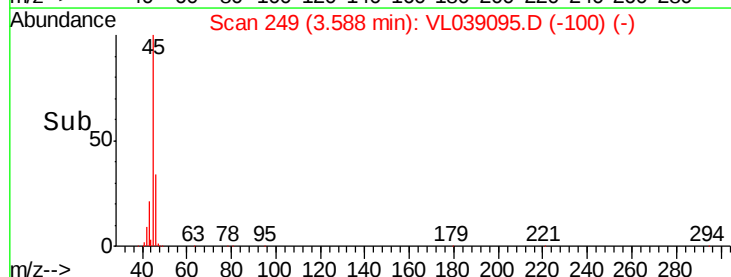
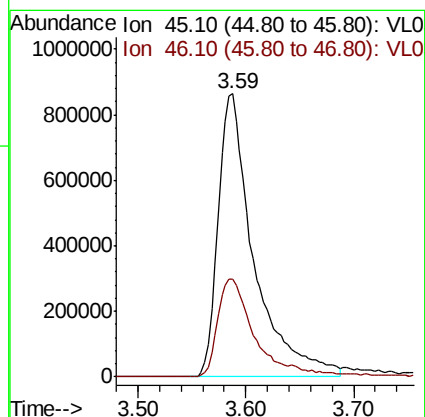
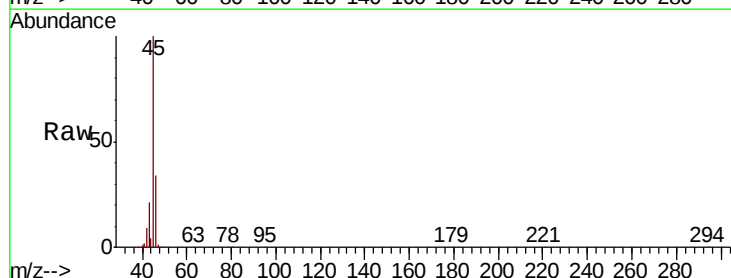
Acq: 23 May 2022 22:24

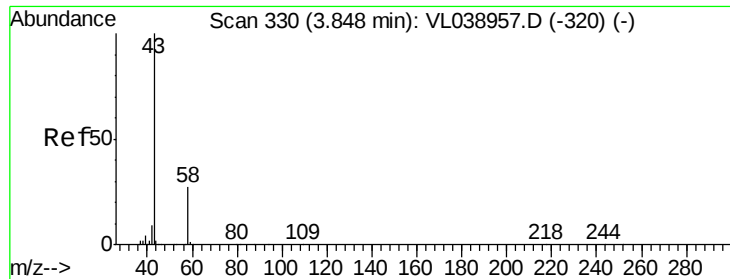
Tgt Ion: 45 Resp: 1989236

Ion Ratio Lower Upper

45 100

46 37.6 18.0 72.2





#15

Acetone

Concen: 1.859 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

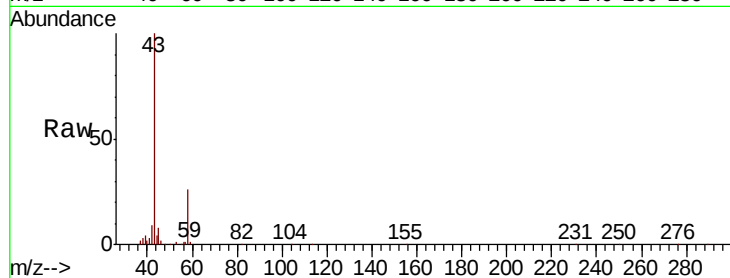
Acq: 23 May 2022 22:24

Tot Ion: 43 Resp: 199430

Ion Ratio Lower Upper

43 100

58 32.0 21.3 31.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

120000

100000

80000

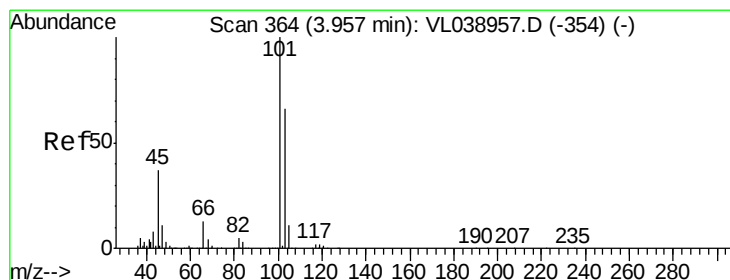
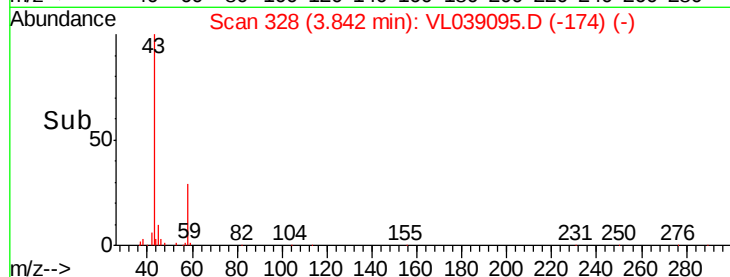
60000

40000

20000

0

Time-->



#19

Isopropyl Alcohol

Concen: 1.163 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL039095.D

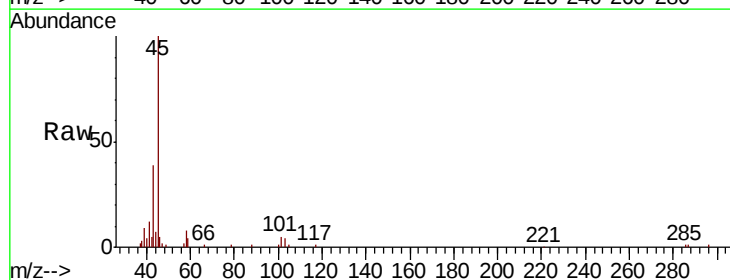
Acq: 23 May 2022 22:24

Tgt Ion: 45 Resp: 59343

Ion Ratio Lower Upper

45 100

58 7.5 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

40000

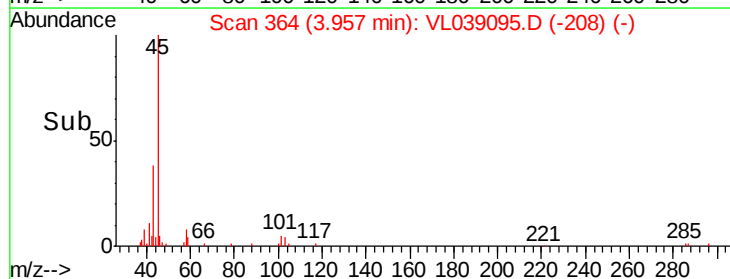
30000

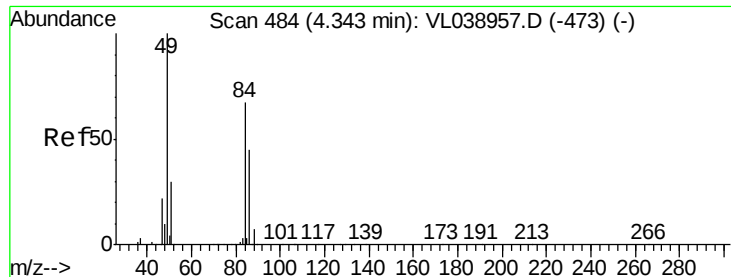
20000

10000

0

Time-->





#20

Methvlene Chloride

Concen: 5.911 ppbv

RT: 4.33 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 May 2022 22:24

Tot Ion: 84 Resp: 238991

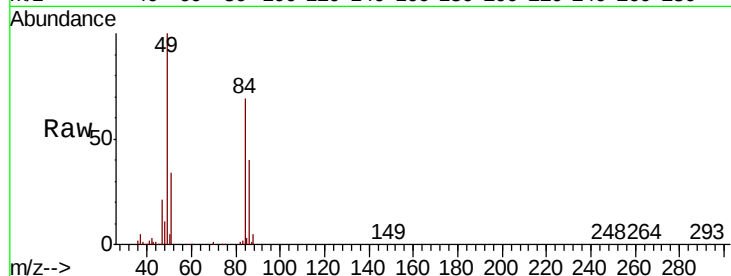
Ion Ratio Lower Upper

84 100

49 146.0 119.9 179.9

51 49.1 35.7 53.5

86 57.7 53.8 80.6

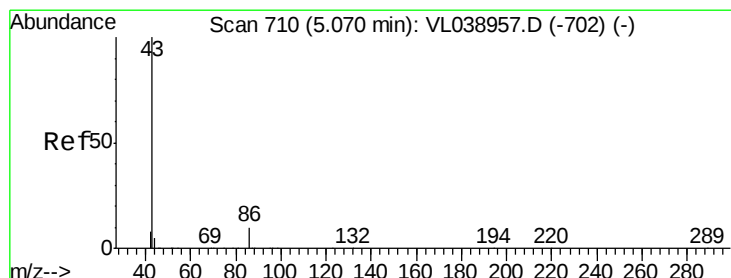
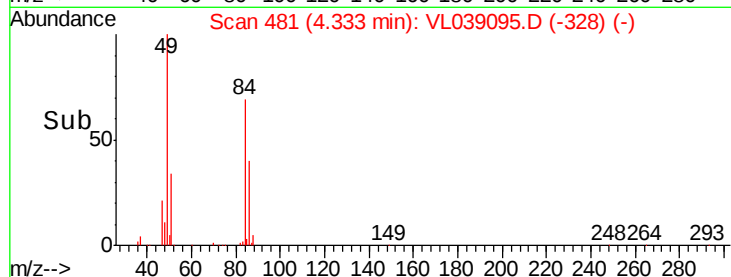
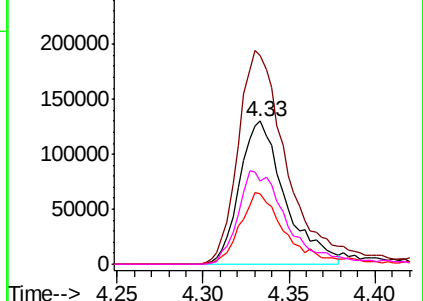


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 0.370 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.02 min

Lab File: VL039095.D

Acq: 23 May 2022 22:24

Tgt Ion: 43 Resp: 31411

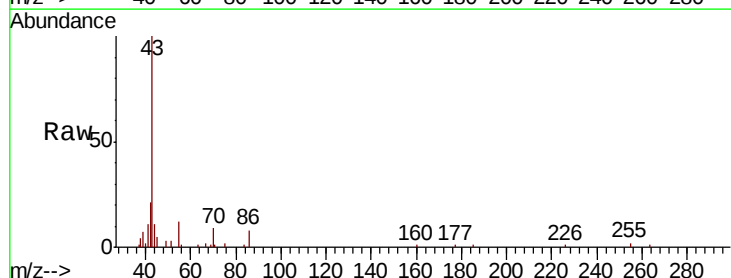
Ion Ratio Lower Upper

43 100

86 8.1 6.6 9.8

42 17.5 8.1 12.1#

44 5.6 3.5 5.3#

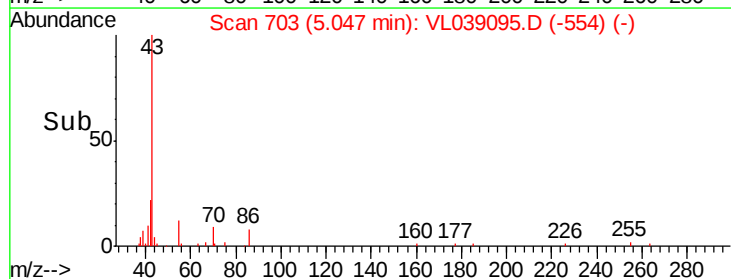
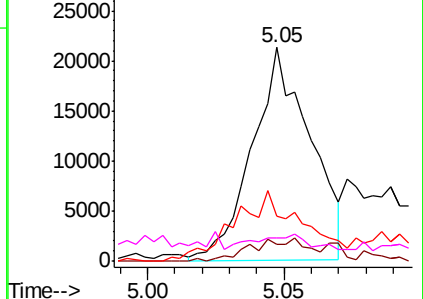


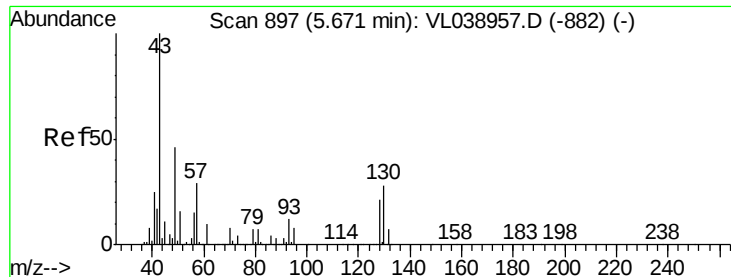
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

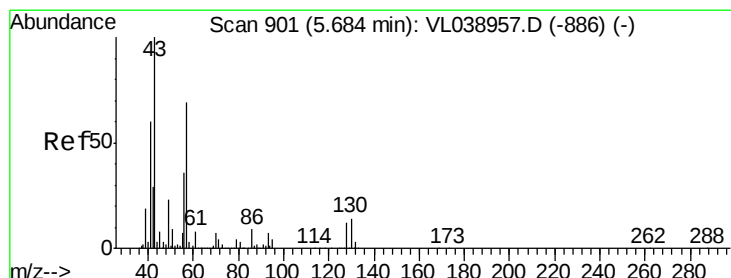
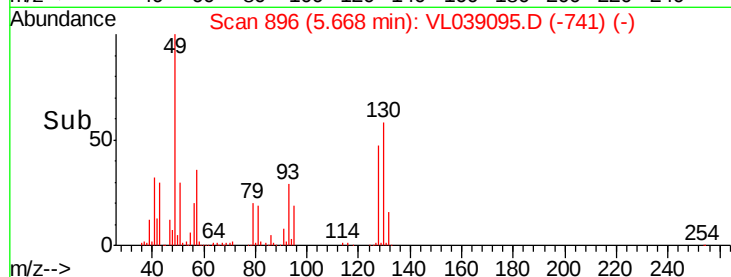
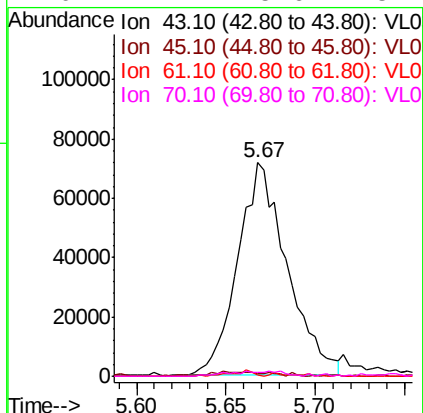
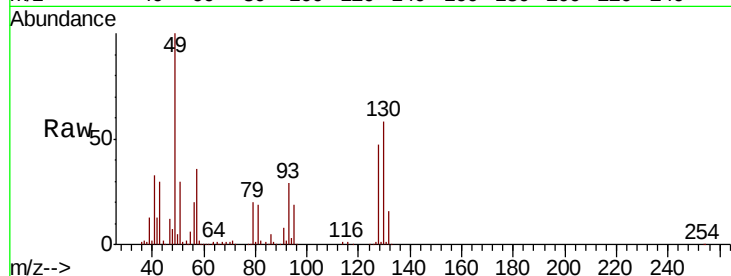
Ion 44.10 (43.80 to 44.80): VL0





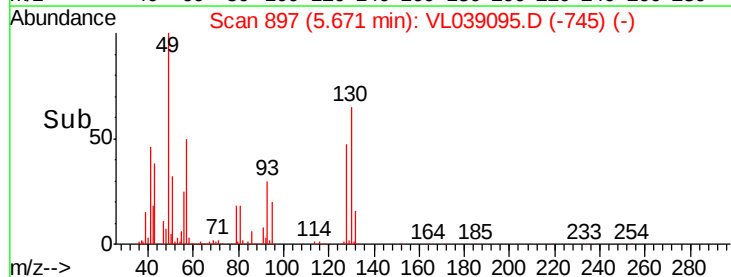
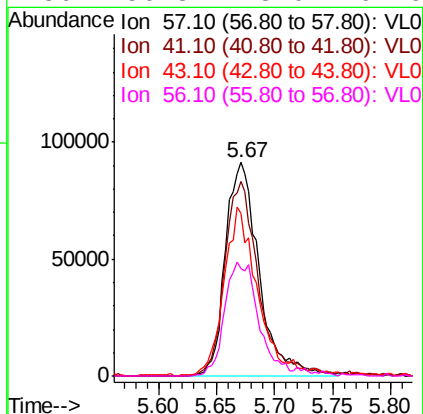
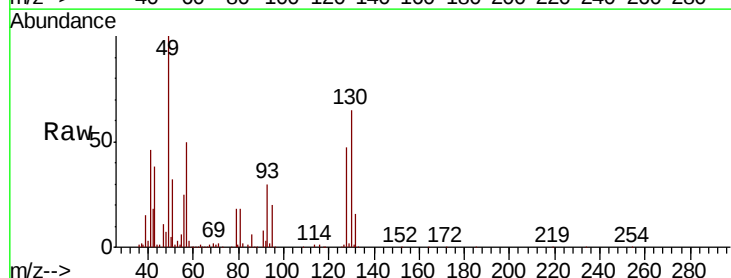
#25
Ethyl Acetate
Concen: 0.537 ppbv
RT: 5.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 22:24

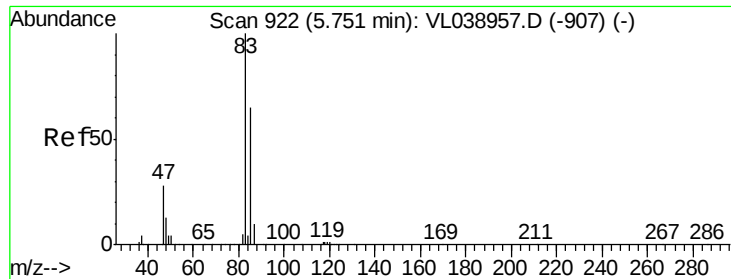
Tot Ion:	43	Resp:	137874
Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.1	12.1#
61	2.0	7.8	11.6#
70	2.7	5.6	8.4#



#26
Hexane
Concen: 1.605 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL039095.D
Acq: 23 May 2022 22:24

Tgt Ion:	57	Resp:	183155
Ion	Ratio	Lower	Upper
57	100		
41	92.1	75.2	112.8
43	82.1	190.8	286.2#
56	56.3	43.0	64.6





#29

Chloroform

Concen: 0.502 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

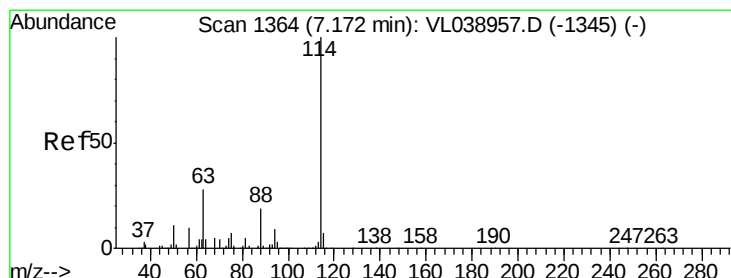
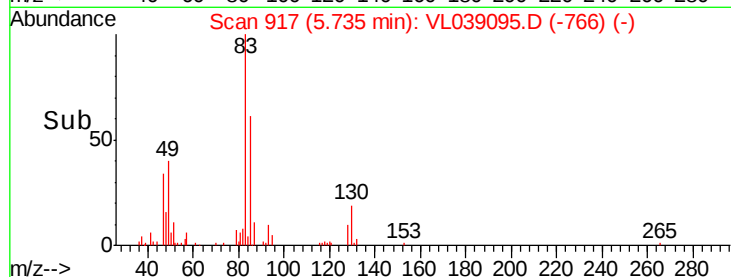
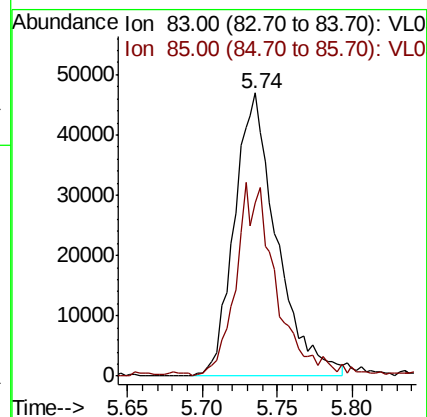
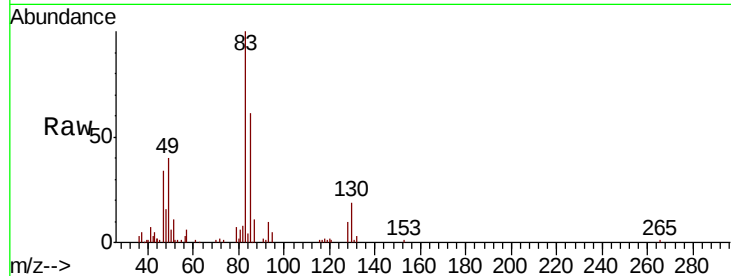
Acq: 23 May 2022 22:24

Tot Ion: 83 Resp: 92572

Ion Ratio Lower Upper

83 100

85 60.7 51.8 77.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.02 min

Lab File: VL039095.D

Acq: 23 May 2022 22:24

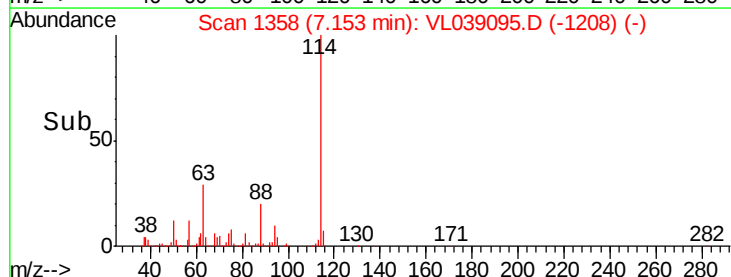
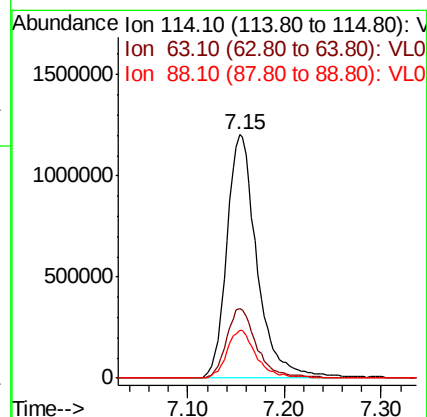
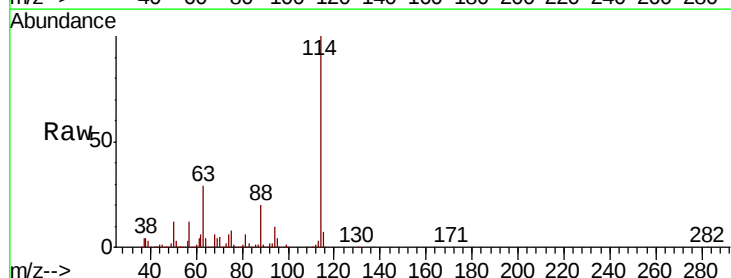
Tgt Ion: 114 Resp: 2604884

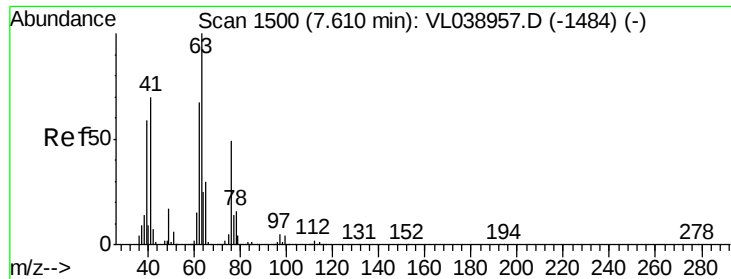
Ion Ratio Lower Upper

114 100

63 29.1 22.6 33.8

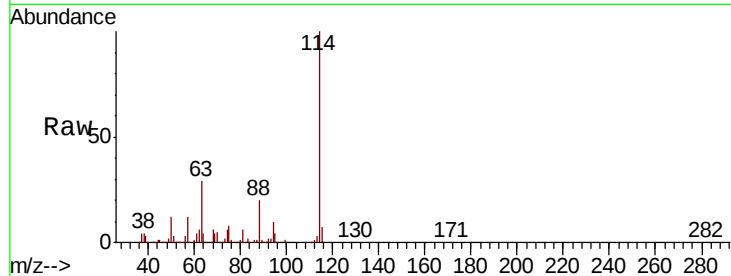
88 19.4 15.4 23.0



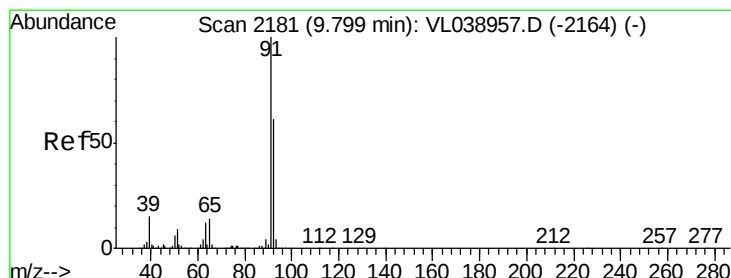
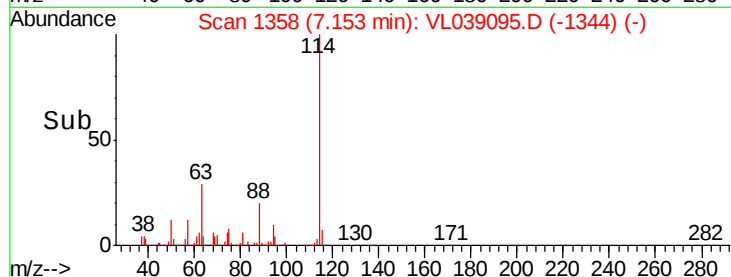
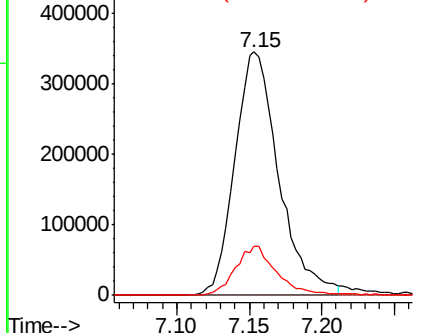


#39
 1,2-Dichloropropane
 Concen: 8.419 ppbv
 RT: 7.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 AP-2DL
 Acq: 23 May 2022 22:24

Tot Ion	63	Resp	730219
Ion Ratio	Lower	Upper	
63	100		
41	0.0	55.9	83.9#
62	19.9	53.8	80.6#

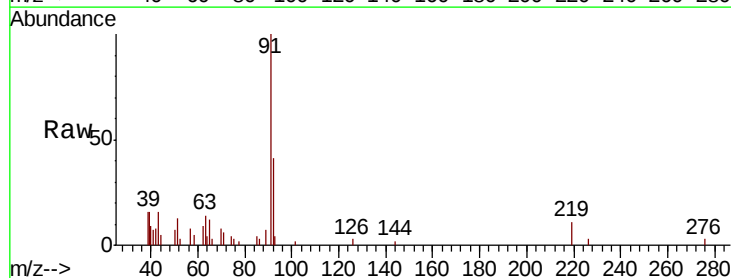


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

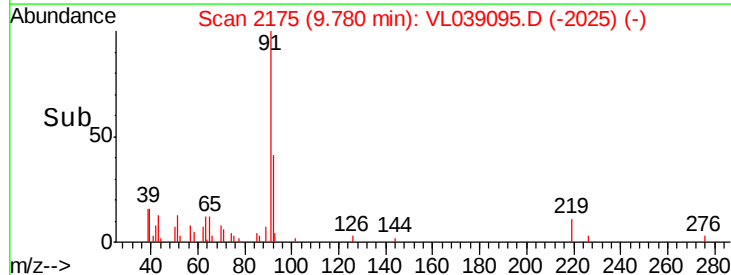
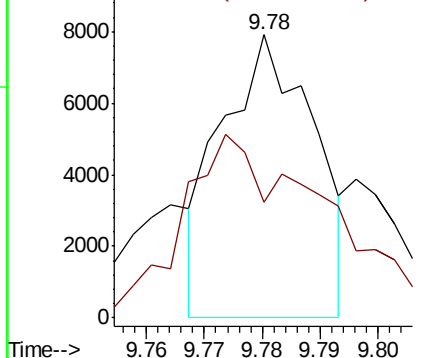


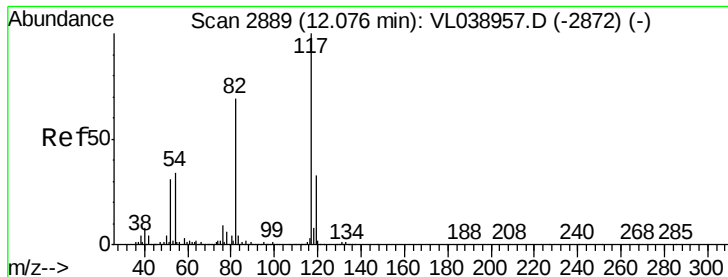
#53
 Toluene
 Concen: 0.035 ppbv
 RT: 9.78 min Scan# 2175
 Delta R.T. -0.02 min
 Lab File: VL039095.D
 Acq: 23 May 2022 22:24

Tgt Ion	91	Resp	8790
Ion Ratio	Lower	Upper	
91	100		
92	111.8	48.2	72.2#



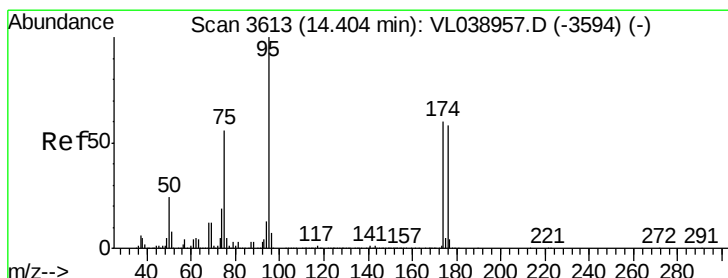
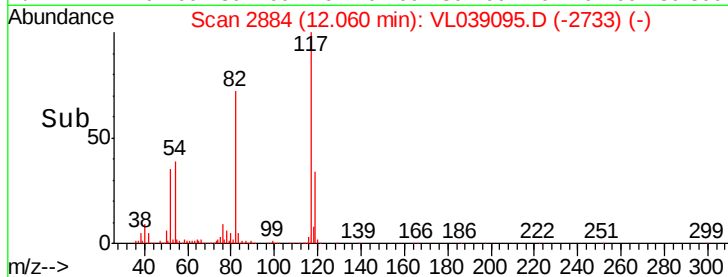
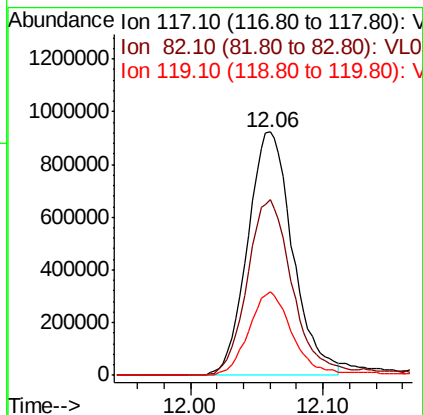
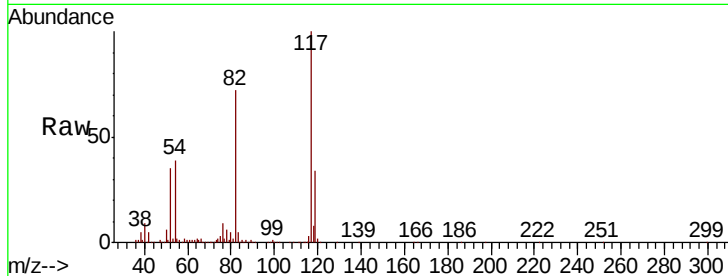
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 22:24

Tot Ion: 117 Resp: 2174903
Ion Ratio Lower Upper
117 100
82 76.7 57.0 85.6
119 34.7 27.2 40.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.644 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.02 min
Lab File: VL039095.D
Acq: 23 May 2022 22:24

Tgt Ion: 95 Resp: 1833259
Ion Ratio Lower Upper
95 100
174 62.0 50.8 76.2
175 4.5 3.8 5.6

