

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038733.D
 Acq On : 24 Mar 2022 2:28
 Operator : SY/AP
 Sample : N2049-02DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:36:57 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	827612	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2203458	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1894985	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1359249	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

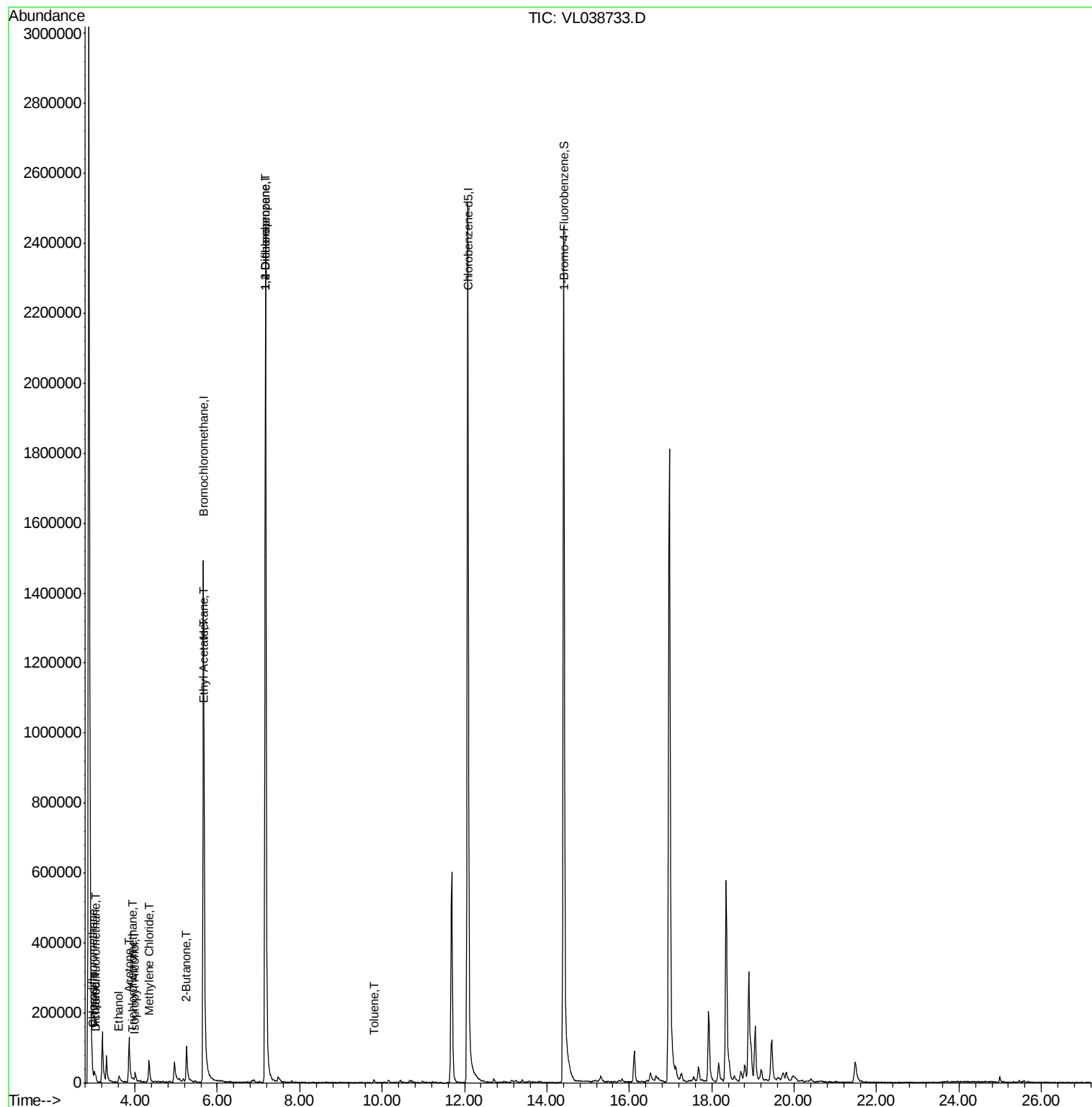
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	10399	0.093	ppbv	91
3) Chlorodifluoromethane	2.99	51	5682	0.065	ppbv	93
9) Propene	3.02	41	8974	0.213	ppbv #	76
11) Trichlorofluoromethane	3.95	101	2952	0.030	ppbv	99
13) Ethanol	3.61	45	8907	1.913	ppbv #	37
15) Acetone	3.85	43	180485	2.527	ppbv #	87
19) Isopropyl Alcohol	3.98	45	3234	0.082	ppbv #	91
20) Methylene Chloride	4.35	84	24442	0.813	ppbv	90
25) Ethyl Acetate	5.69	43	11263	0.063	ppbv #	83
26) Hexane	5.68	57	12457	0.155	ppbv #	38
34) 2-Butanone	5.25	43	146052	1.675	ppbv	93
39) 1,2-Dichloropropane	7.17	63	513586	7.725	ppbv #	29
53) Toluene	9.80	91	6710	0.037	ppbv	98

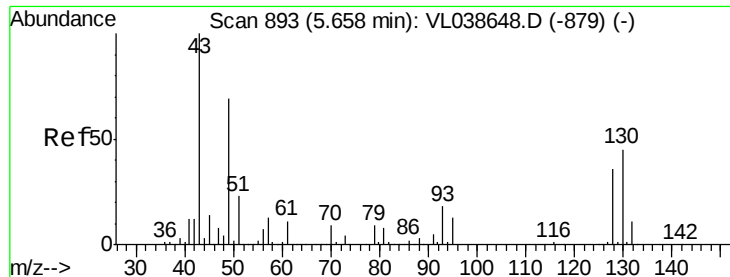
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 2:28

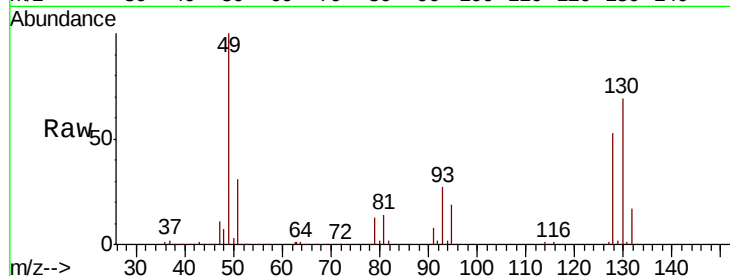
Tot Ion: 49 Resp: 827612

Ion Ratio Lower Upper

49 100

128 56.4 26.2 78.6

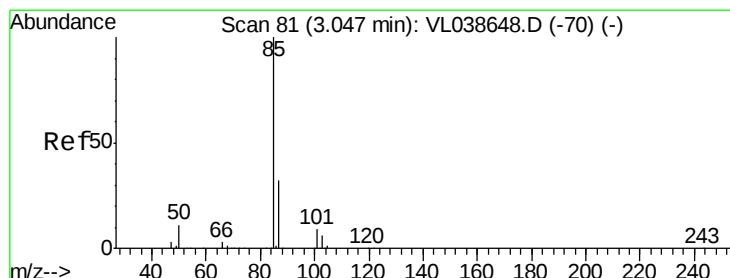
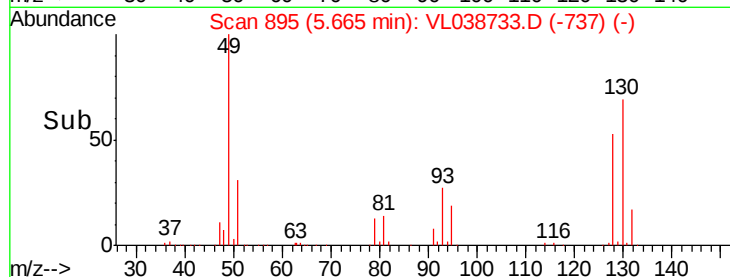
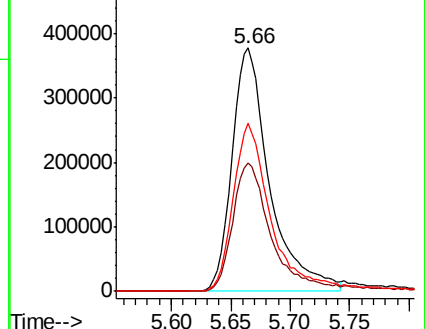
130 71.9 33.7 101.1



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: 0.093 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038733.D

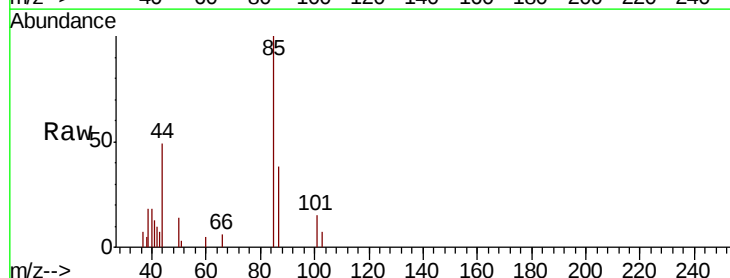
Acq: 24 Mar 2022 2:28

Tgt Ion: 85 Resp: 10399

Ion Ratio Lower Upper

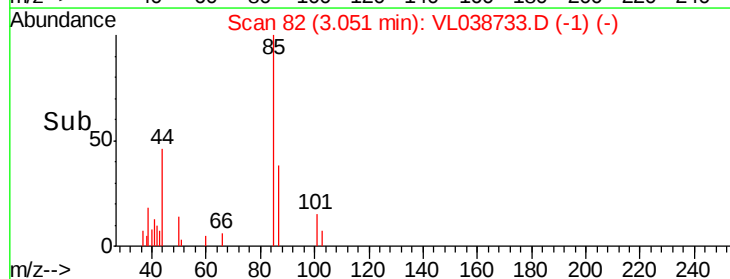
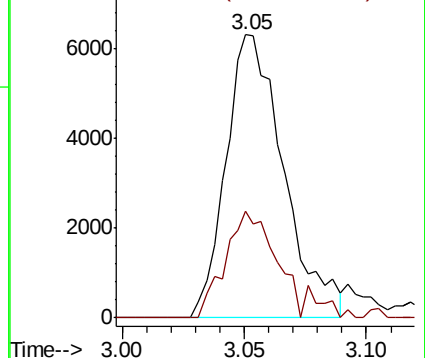
85 100

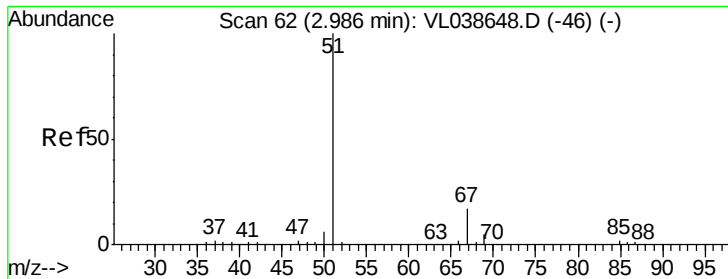
87 37.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

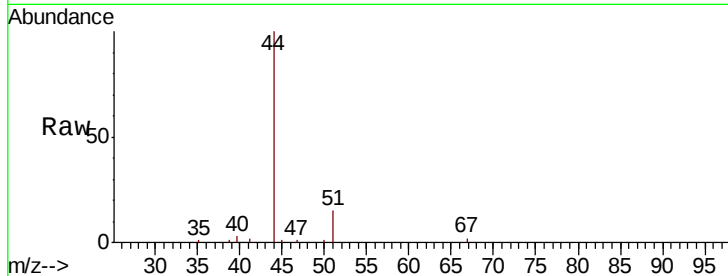
Acq: 24 Mar 2022 2:28

Tot Ion: 51 Resp: 5682

Ion Ratio Lower Upper

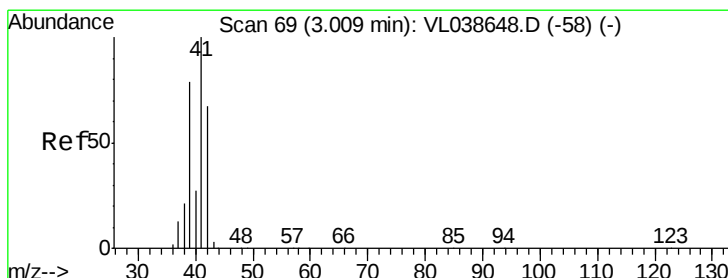
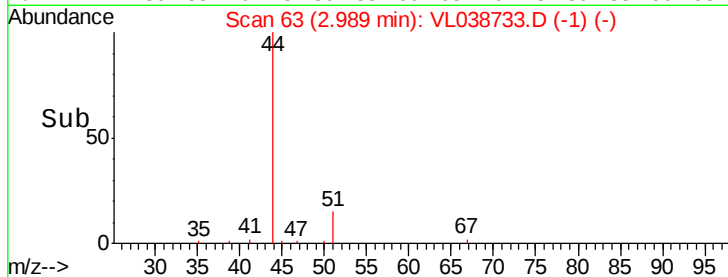
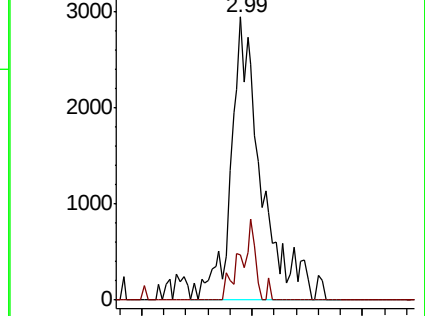
51 100

67 14.5 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.213 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL038733.D

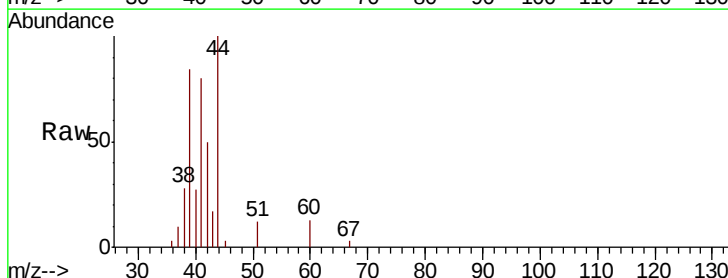
Acq: 24 Mar 2022 2:28

Tgt Ion: 41 Resp: 8974

Ion Ratio Lower Upper

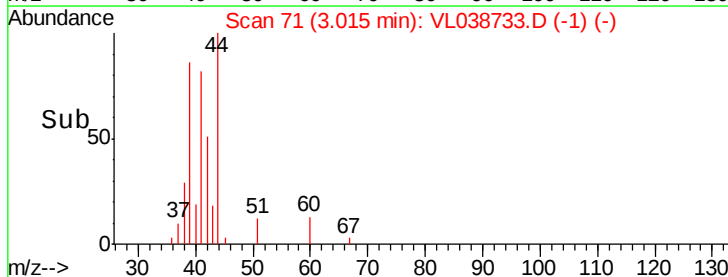
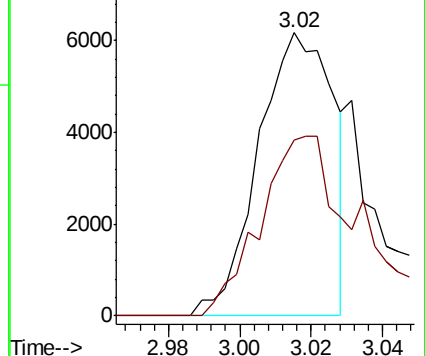
41 100

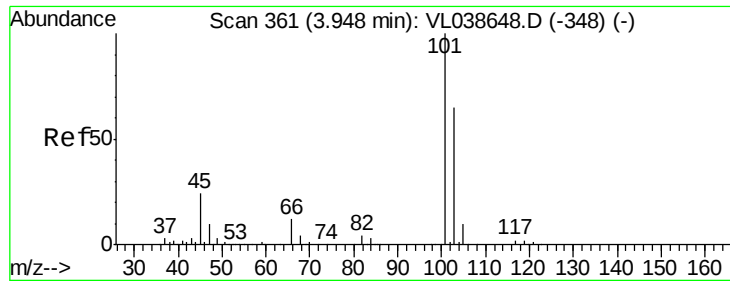
42 89.7 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

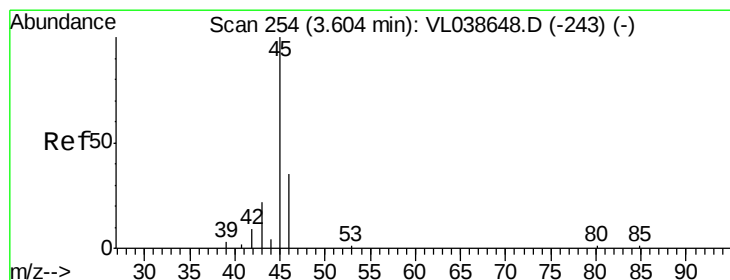
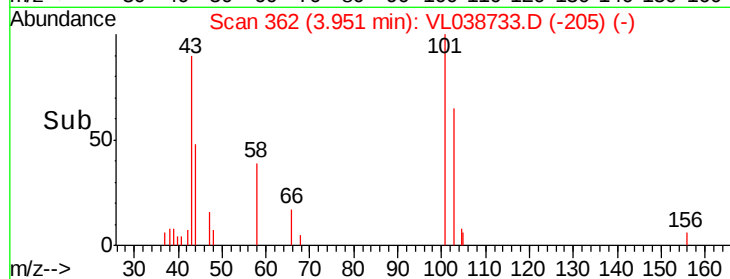
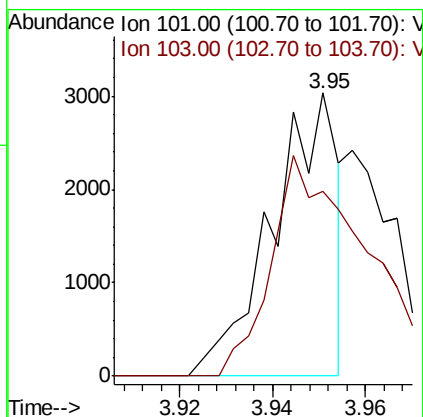
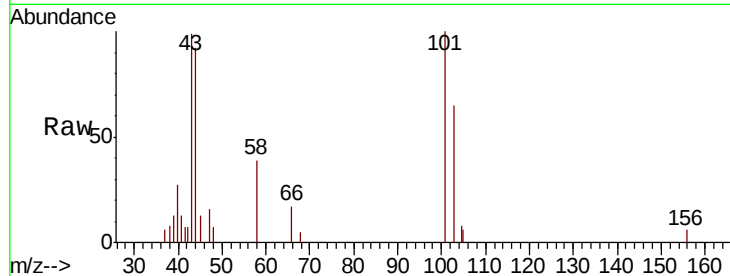
Ion 42.10 (41.80 to 42.80): VL0





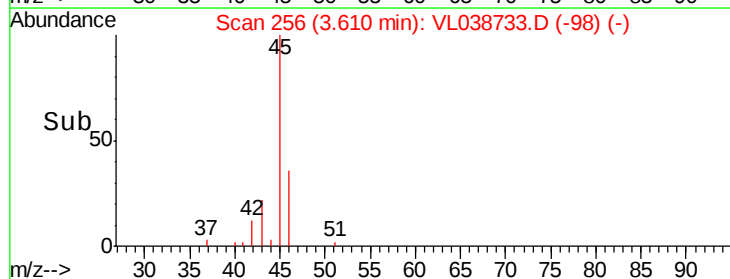
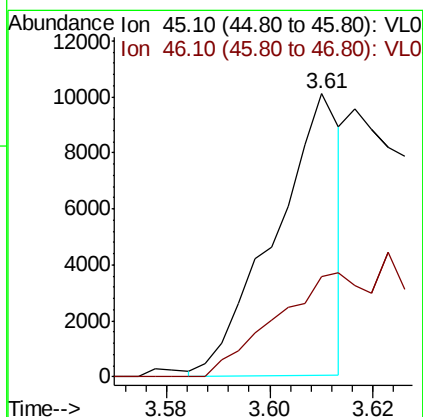
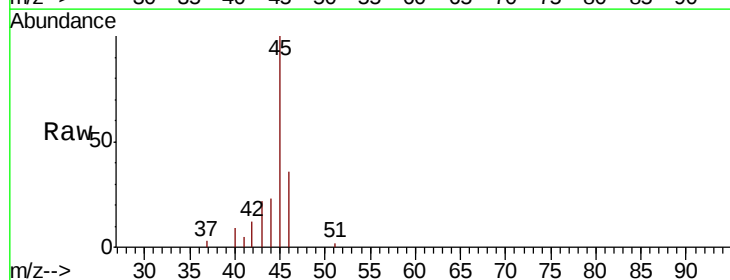
#11
 Trichlorofluoromethane
 Concen: 0.030 ppbv
 RT: 3.95 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 2:28

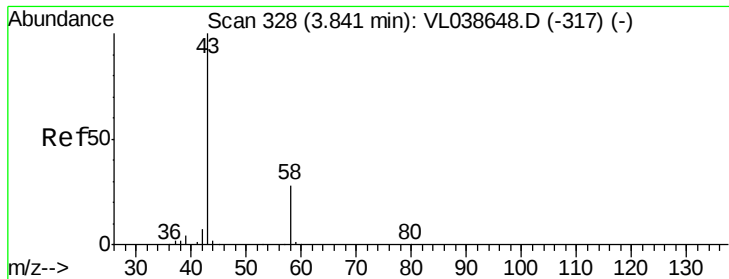
Tot Ion: 101 Resp: 2952
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.9 77.9



#13
 Ethanol
 Concen: 1.913 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL038733.D
 Acq: 24 Mar 2022 2:28

Tgt Ion: 45 Resp: 8907
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.1 60.5#





#15

Acetone

Concen: 2.527 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

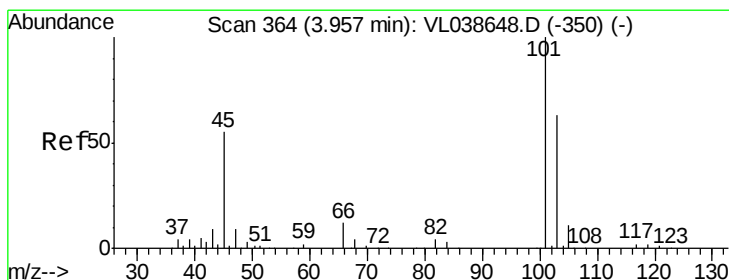
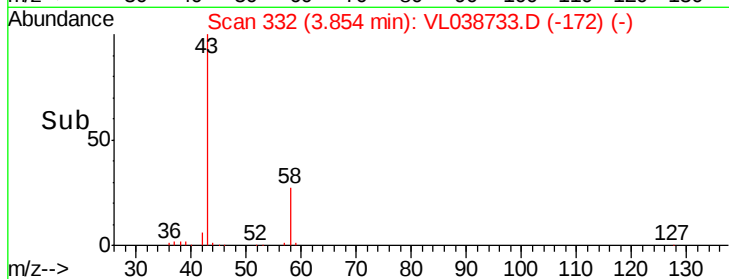
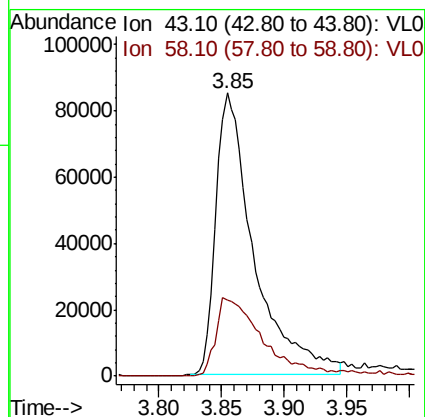
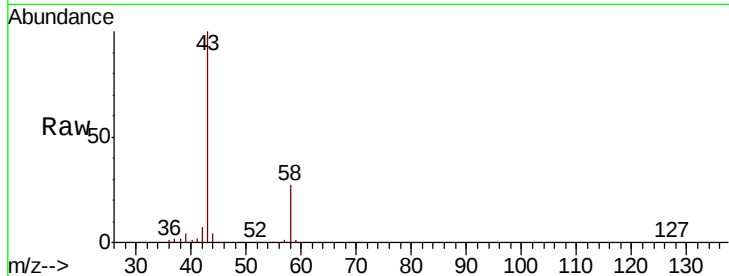
Acq: 24 Mar 2022 2:28

Tot Ion: 43 Resp: 180485

Ion Ratio Lower Upper

43 100

58 36.1 23.3 34.9#



#19

Isopropyl Alcohol

Concen: 0.082 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL038733.D

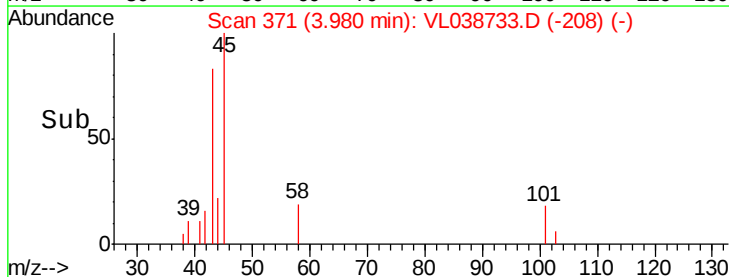
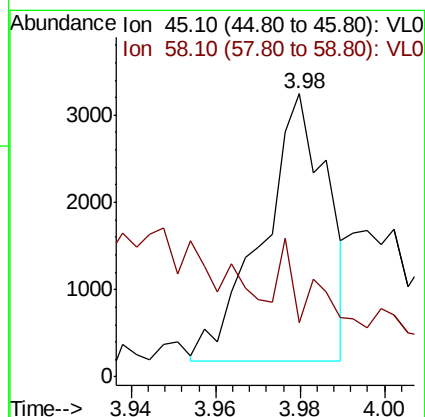
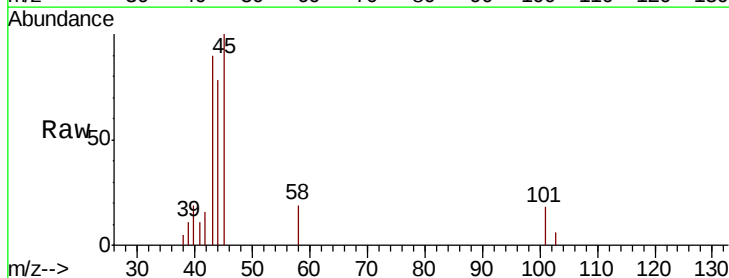
Acq: 24 Mar 2022 2:28

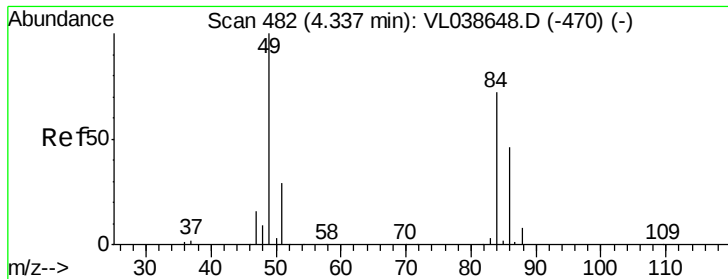
Tgt Ion: 45 Resp: 3234

Ion Ratio Lower Upper

45 100

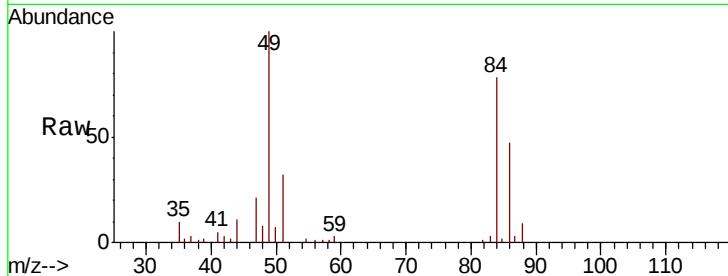
58 0.0 2.3 3.5#



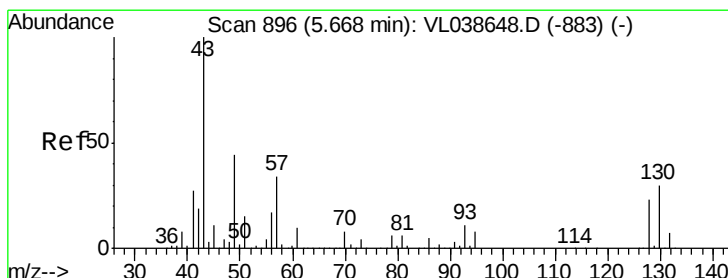
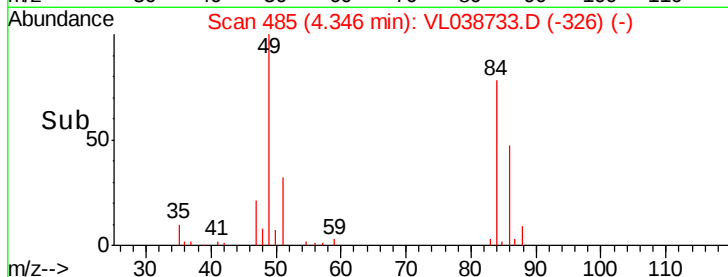
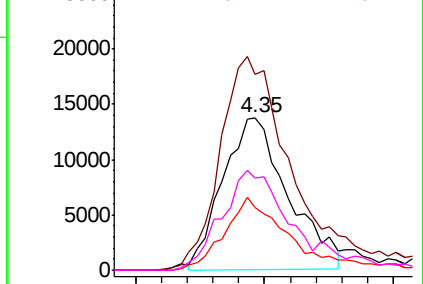


#20
Methvlene Chloride
Concen: 0.813 ppbv
RT: 4.35 Instrument: MSVOA_1
Delta R.T. ClientSampleId :
Lab File:
Acq: 24 Mar 2022 2:28

Tot Ion:	84	Resp:	24442
Ion	Ratio	Lower	Upper
84	100		
49	121.0	111.2	166.8
51	39.5	32.8	49.2
86	60.9	51.4	77.0

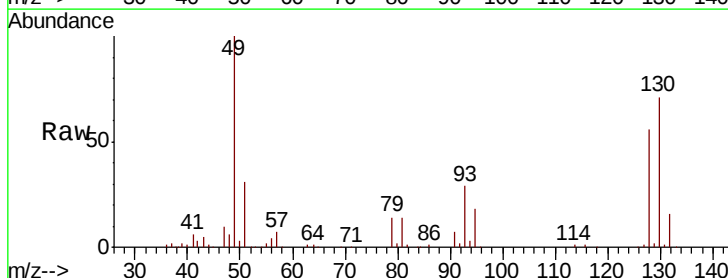


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

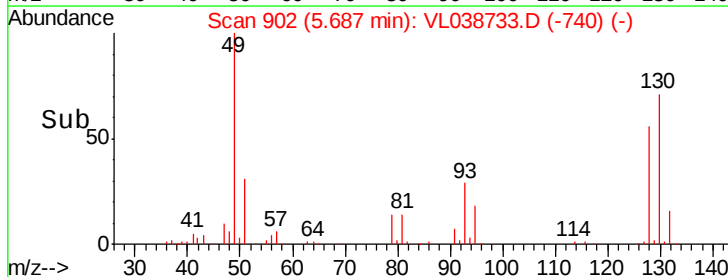
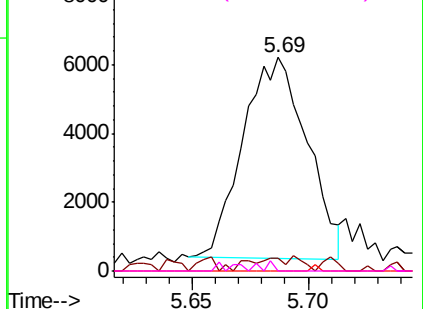


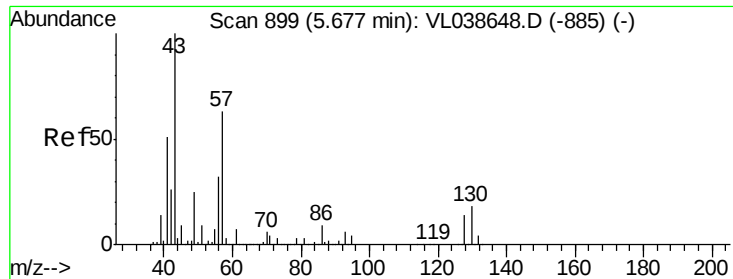
#25
Ethyl Acetate
Concen: 0.063 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.02 min
Lab File: VL038733.D
Acq: 24 Mar 2022 2:28

Tgt Ion:	43	Resp:	11263
Ion	Ratio	Lower	Upper
43	100		
45	6.9	8.2	12.4#
61	0.3	8.3	12.5#
70	1.6	5.6	8.4#



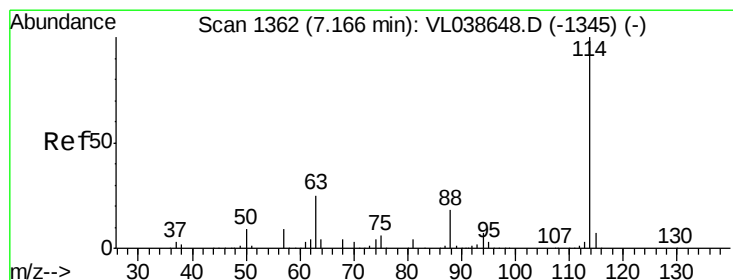
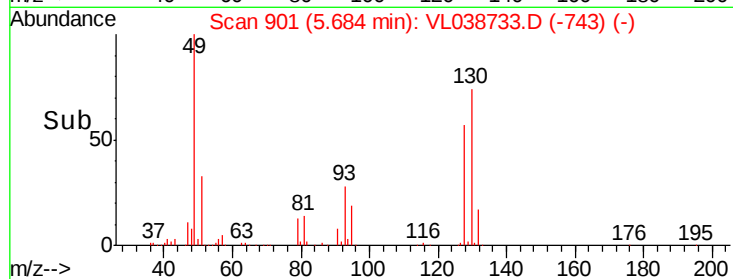
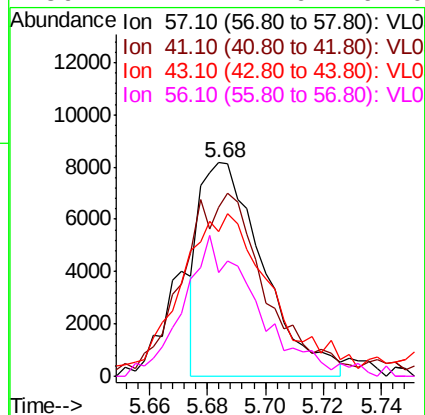
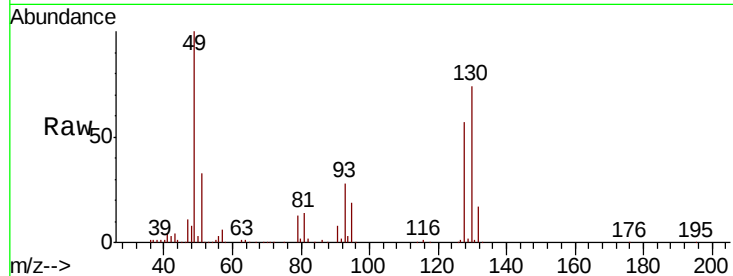
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





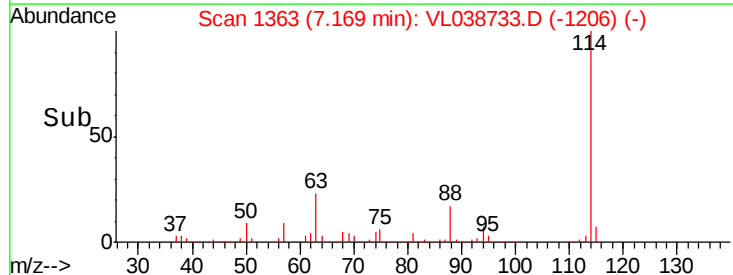
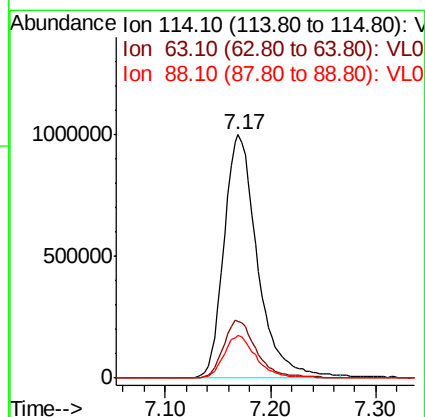
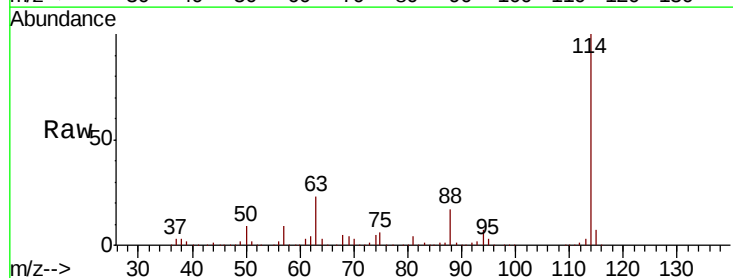
#26
Hexane
Concen: 0.155 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 2:28

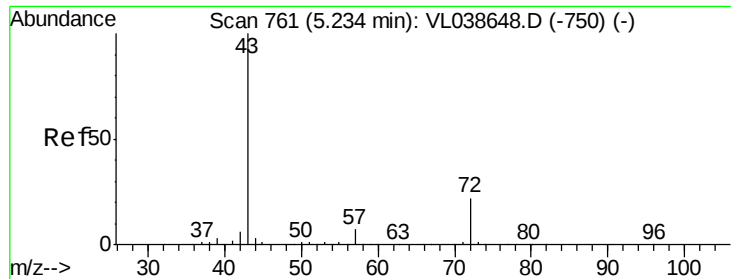
Tot Ion	57	Resp	12457
Ion Ratio	Lower	Upper	
57	100		
41	119.7	67.0	100.4#
43	104.7	184.2	276.2#
56	77.4	42.6	64.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL038733.D
Acq: 24 Mar 2022 2:28

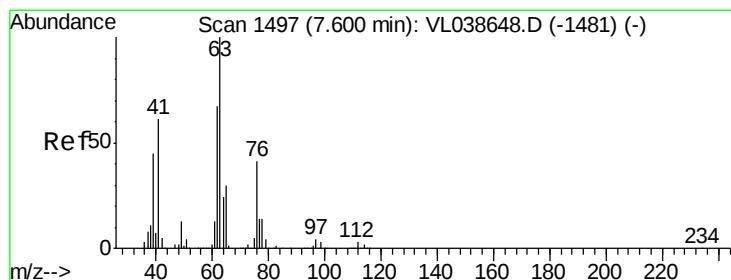
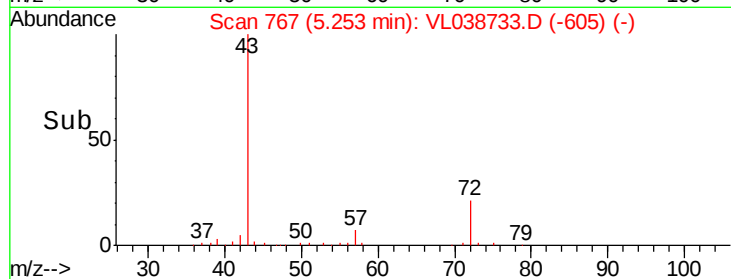
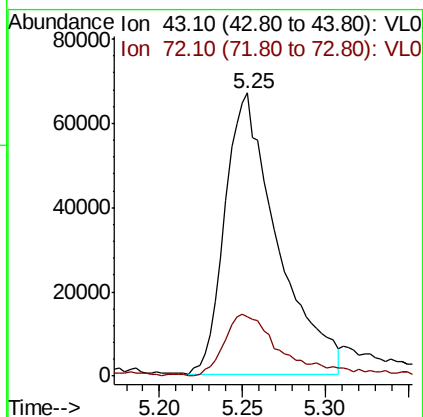
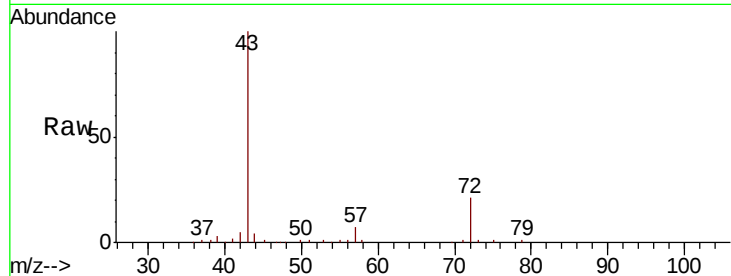
Tgt Ion	114	Resp	2203458
Ion Ratio	Lower	Upper	
114	100		
63	23.8	19.4	29.0
88	17.2	13.9	20.9





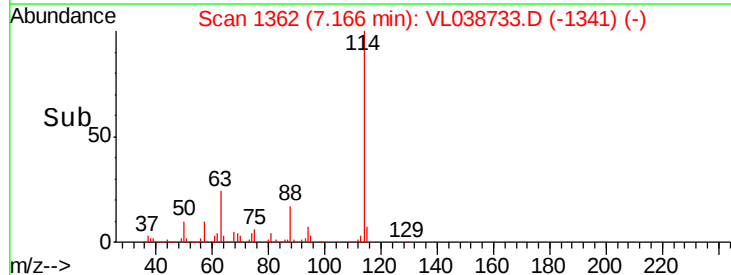
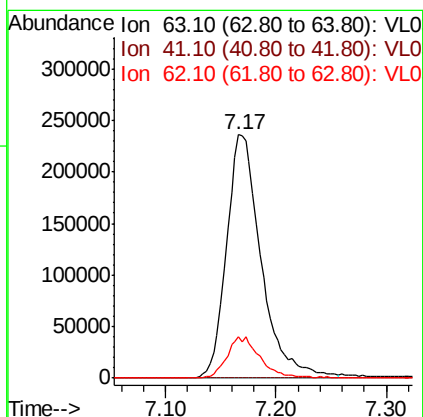
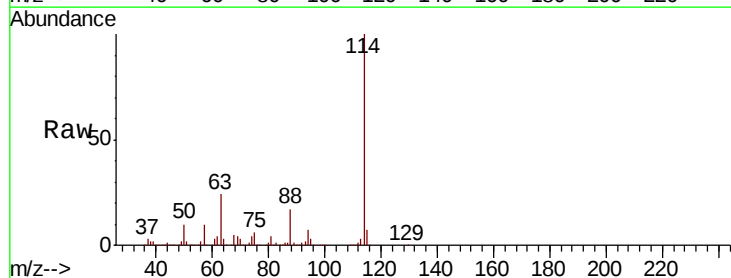
#34
 2-Butanone
 Concen: 1.675 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 2:28

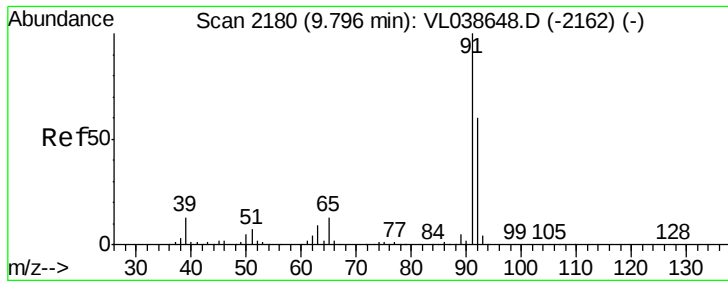
Tot Ion: 43 Resp: 146052
 Ion Ratio Lower Upper
 43 100
 72 25.4 17.8 26.8



#39
 1,2-Dichloropropane
 Concen: 7.725 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.43 min
 Lab File: VL038733.D
 Acq: 24 Mar 2022 2:28

Tgt Ion: 63 Resp: 513586
 Ion Ratio Lower Upper
 63 100
 41 0.2 49.0 73.6#
 62 17.1 53.9 80.9#





#53

Toluene

Concen: 0.037 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

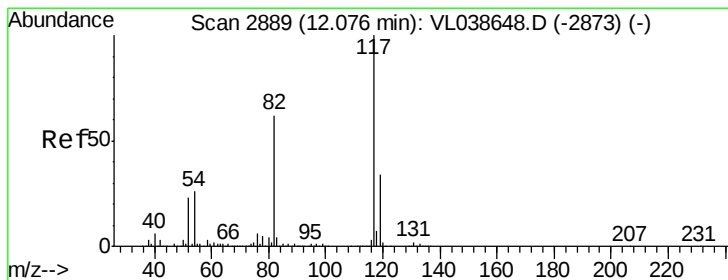
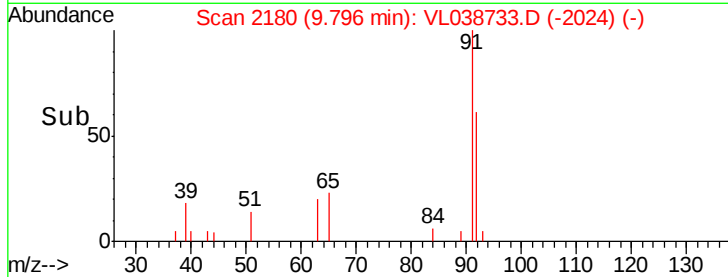
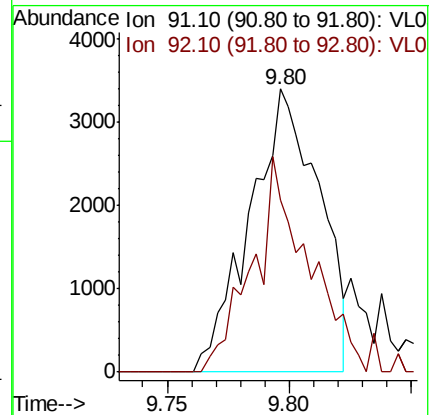
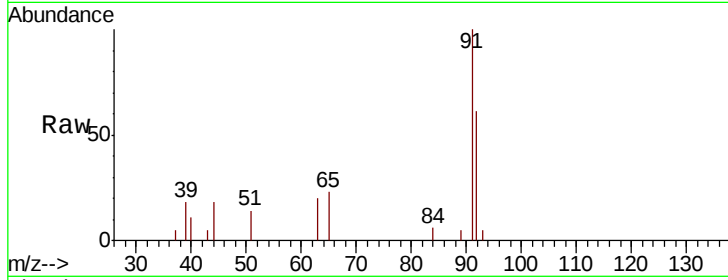
Acq: 24 Mar 2022 2:28

Tot Ion: 91 Resp: 6710

Ion Ratio Lower Upper

91 100

92 62.4 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.00 min

Lab File: VL038733.D

Acq: 24 Mar 2022 2:28

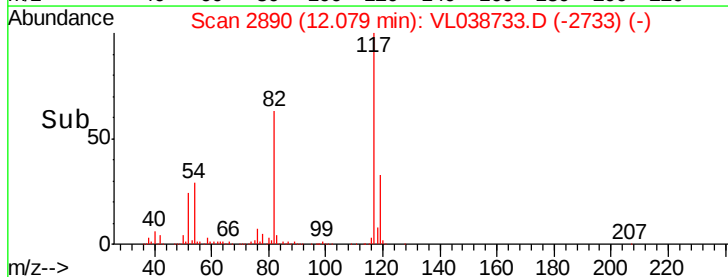
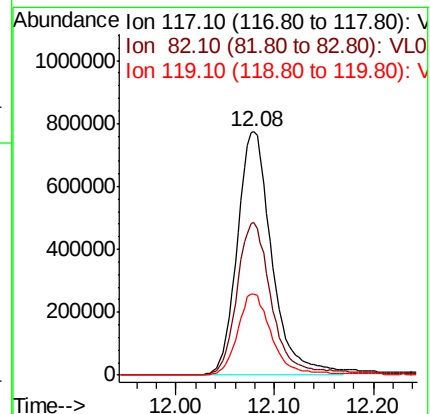
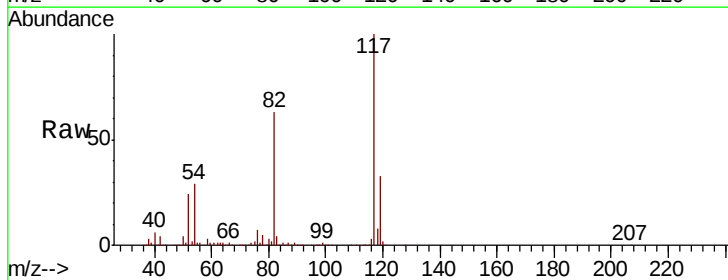
Tgt Ion: 117 Resp: 1894985

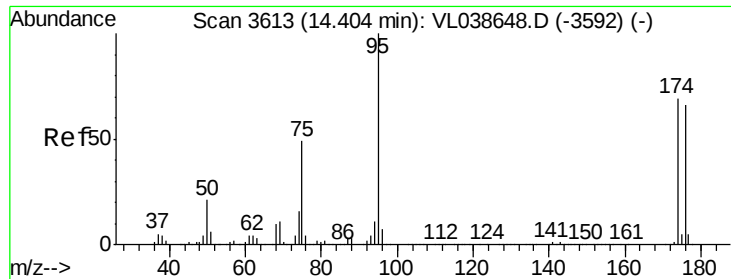
Ion Ratio Lower Upper

117 100

82 65.5 51.6 77.4

119 33.4 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.356 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 2:28

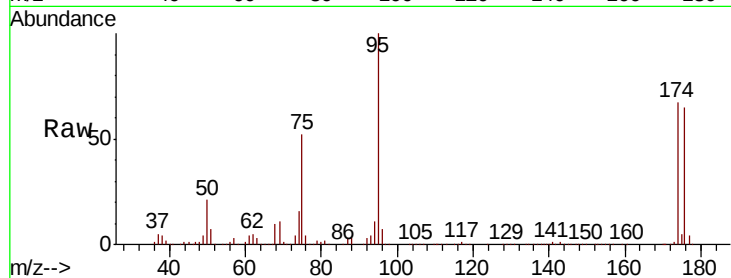
Tot Ion: 95 Resp: 1359249

Ion Ratio Lower Upper

95 100

174 72.3 56.1 84.1

175 5.2 4.2 6.2



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

