

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032822\
 Data File : VL038782.D
 Acq On : 28 Mar 2022 22:21
 Operator : SY/AP
 Sample : N2078-10
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-1

Quant Time: Mar 29 06:12:39 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	776873	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2057044	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1734699	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1326884	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

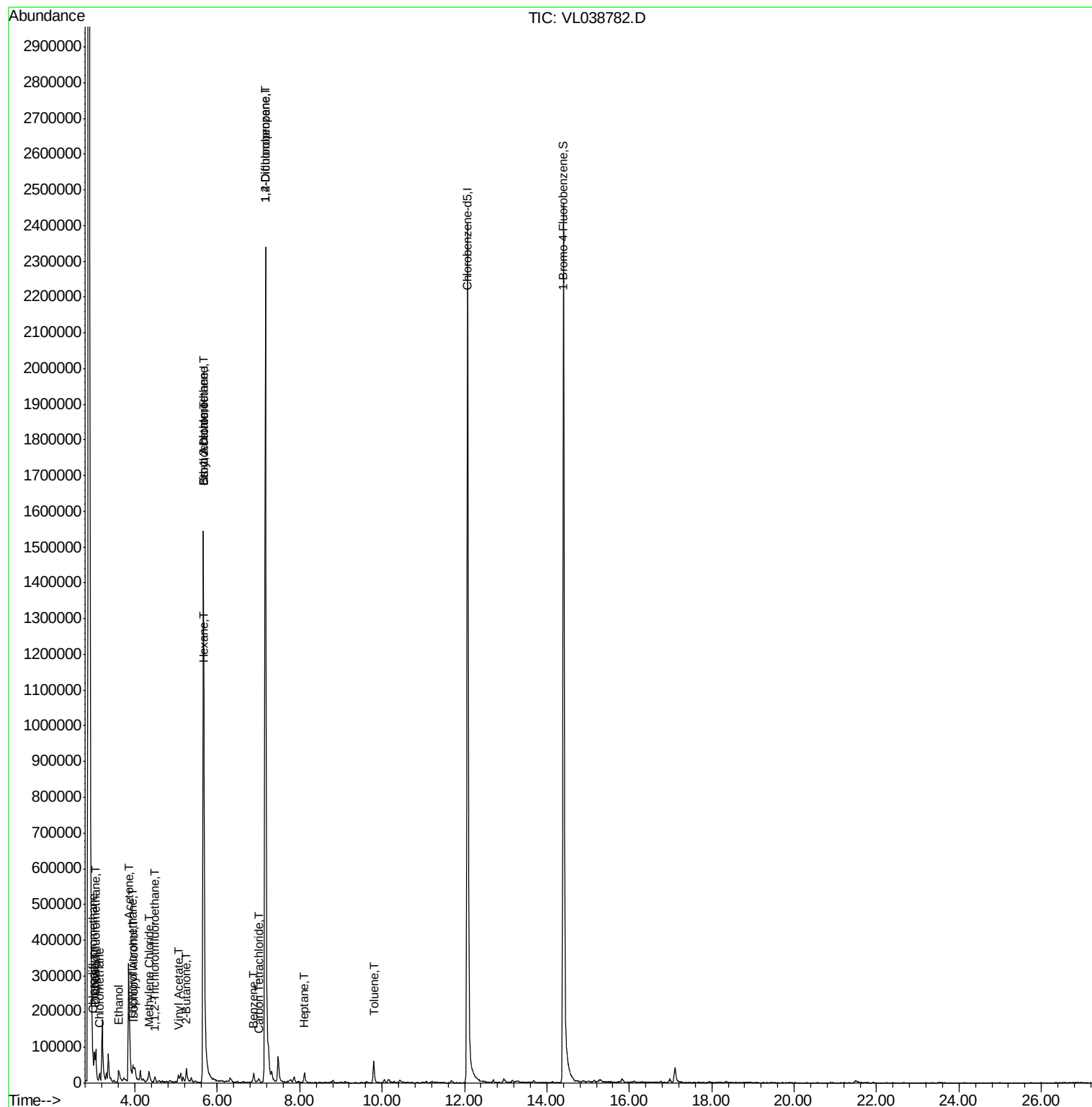
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	70023	0.671	ppbv	100
3) Chlorodifluoromethane	2.99	51	28770	0.351	ppbv	94
4) Chloromethane	3.14	50	24770	0.550	ppbv	98
9) Propene	3.02	41	20326	0.513	ppbv #	81
10) Heptane	8.11	43	6461	0.068	ppbv #	43
11) Trichlorofluoromethane	3.95	101	24588	0.267	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2942	0.041	ppbv #	1
13) Ethanol	3.61	45	22379	5.121	ppbv #	9
15) Acetone	3.85	43	433837	6.472	ppbv	93
19) Isopropyl Alcohol	3.98	45	29928	0.805	ppbv #	91
20) Methylene Chloride	4.34	84	10699	0.379	ppbv #	80
23) Vinyl Acetate	5.06	43	14833	0.229	ppbv #	68
25) Ethyl Acetate	5.67	43	258467	1.532	ppbv #	88
26) Hexane	5.68	57	11721	0.155	ppbv #	1
31) cis-1,2-Dichloroethene	5.67	61	31458	0.443	ppbv #	22
34) 2-Butanone	5.24	43	21183	0.260	ppbv #	8
35) Carbon Tetrachloride	7.01	117	3870	0.032	ppbv	94
36) Benzene	6.88	78	22946	0.145	ppbv #	95
39) 1,2-Dichloropropane	7.17	63	482138	7.768	ppbv #	30
53) Toluene	9.79	91	50116	0.294	ppbv	99

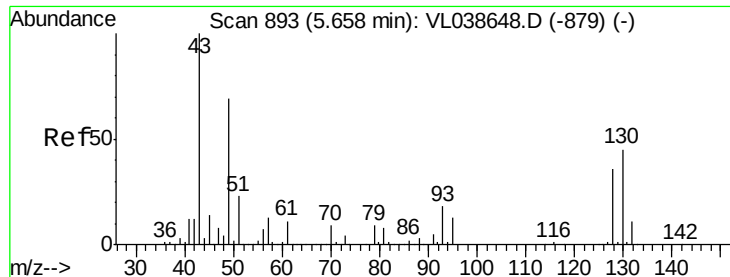
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: V-1

Acq: 28 Mar 2022 22:21

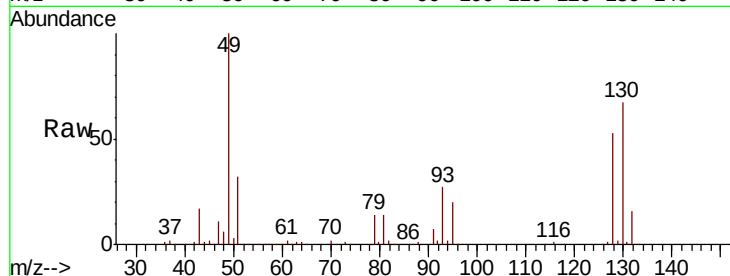
Tot Ion: 49 Resp: 776873

Ion Ratio Lower Upper

49 100

128 56.3 26.2 78.6

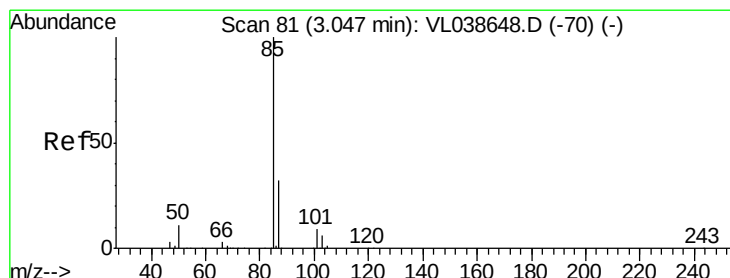
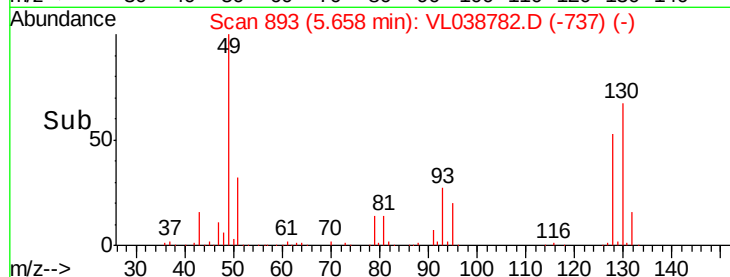
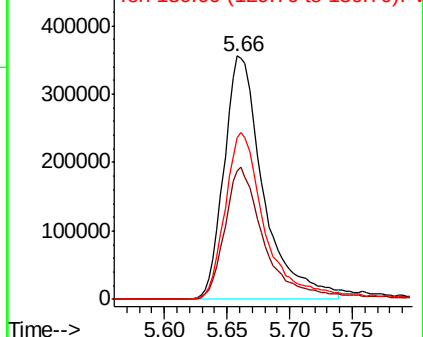
130 70.8 33.7 101.1



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: 0.671 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038782.D

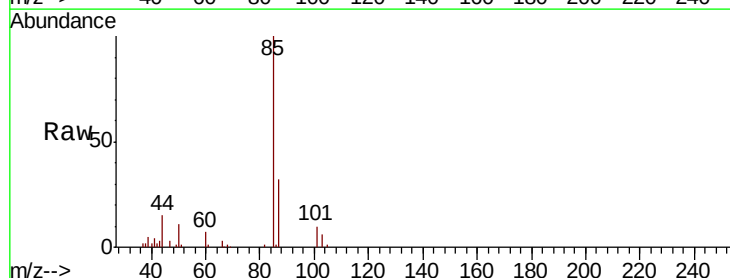
Acq: 28 Mar 2022 22:21

Tgt Ion: 85 Resp: 70023

Ion Ratio Lower Upper

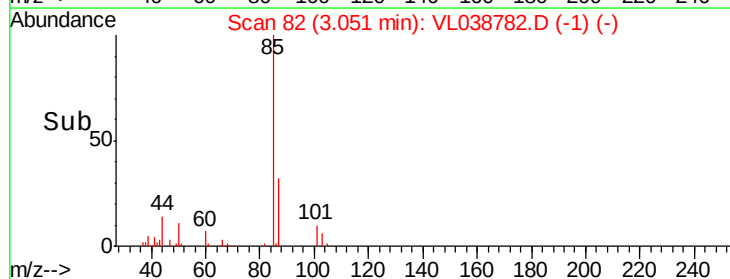
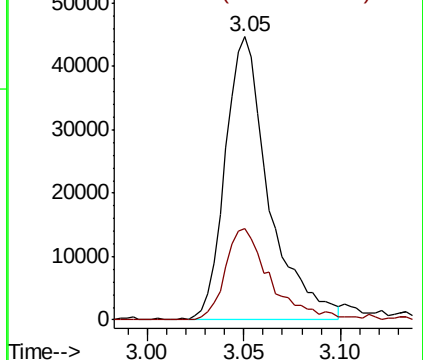
85 100

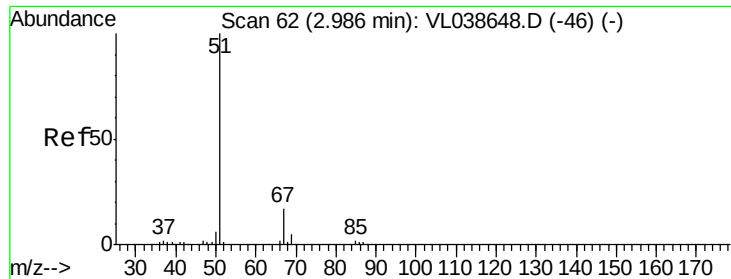
87 32.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.351 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: V-1

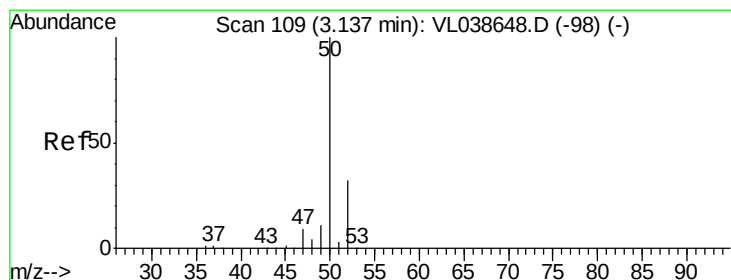
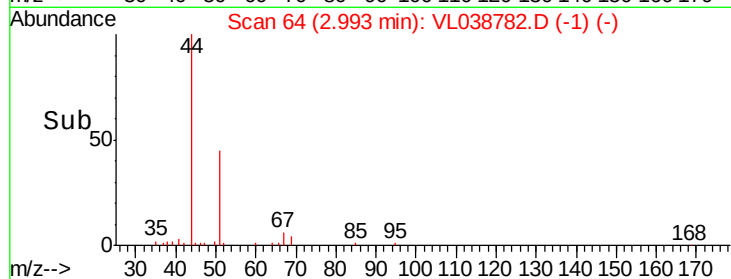
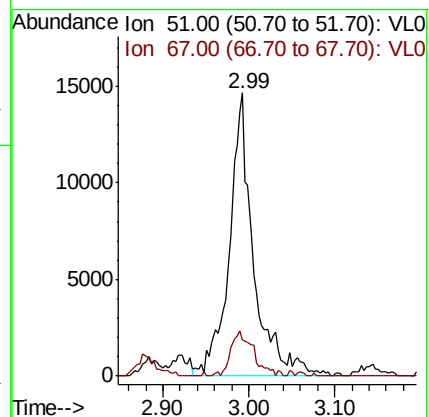
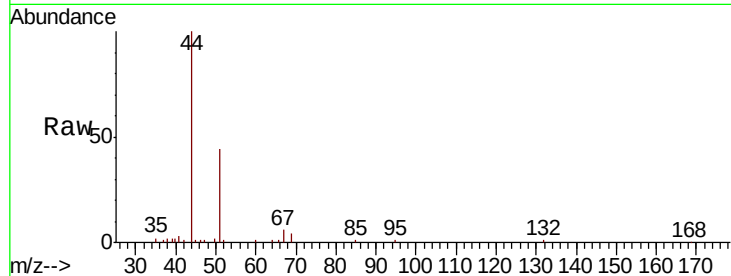
Acq: 28 Mar 2022 22:21

Tot Ion: 51 Resp: 28770

Ion Ratio Lower Upper

51 100

67 15.0 14.1 21.1



#4

Chloromethane

Concen: 0.550 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL038782.D

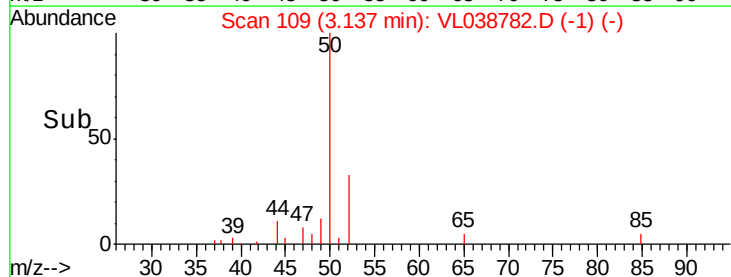
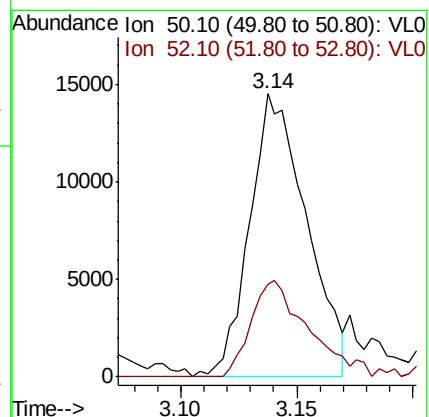
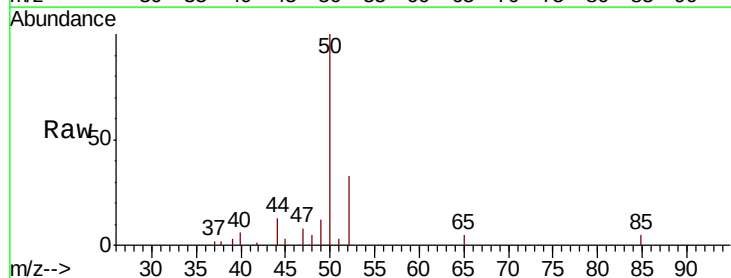
Acq: 28 Mar 2022 22:21

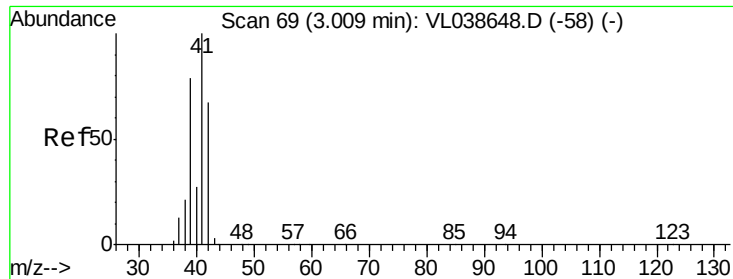
Tgt Ion: 50 Resp: 24770

Ion Ratio Lower Upper

50 100

52 33.0 25.5 38.3





#9

Propene

Concen: 0.513 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

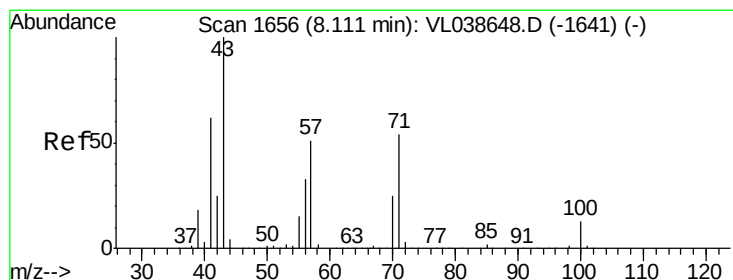
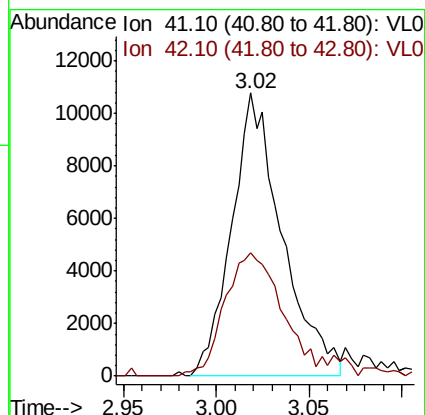
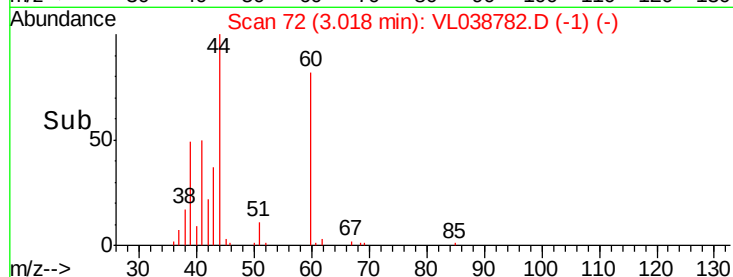
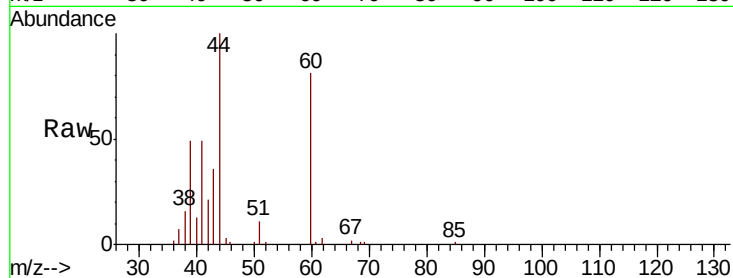
Acq: 28 Mar 2022 22:21

Tot Ion: 41 Resp: 20326

Ion Ratio Lower Upper

41 100

42 54.3 56.2 84.4#



#10

Heptane

Concen: 0.068 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL038782.D

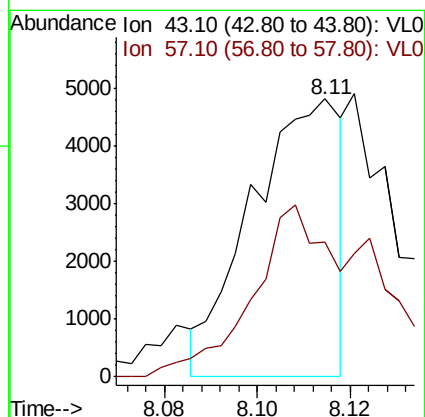
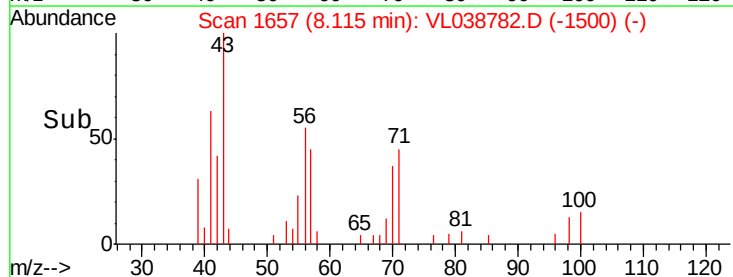
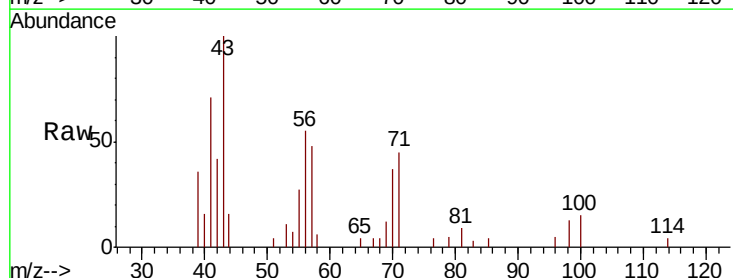
Acq: 28 Mar 2022 22:21

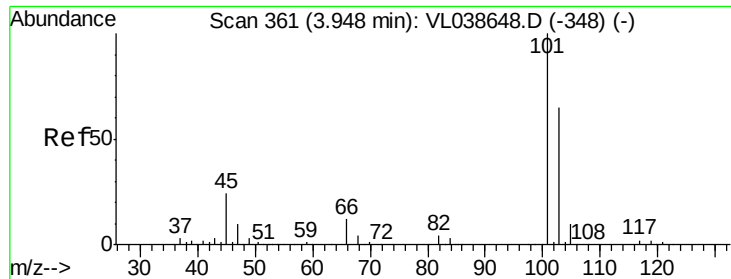
Tgt Ion: 43 Resp: 6461

Ion Ratio Lower Upper

43 100

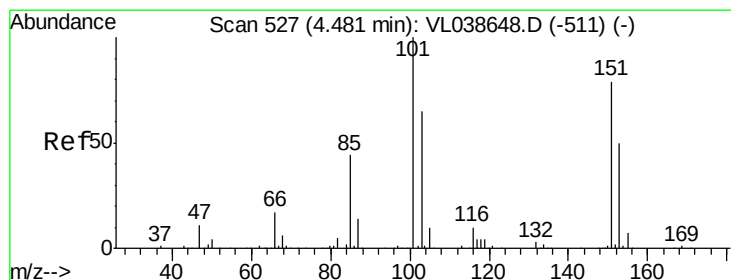
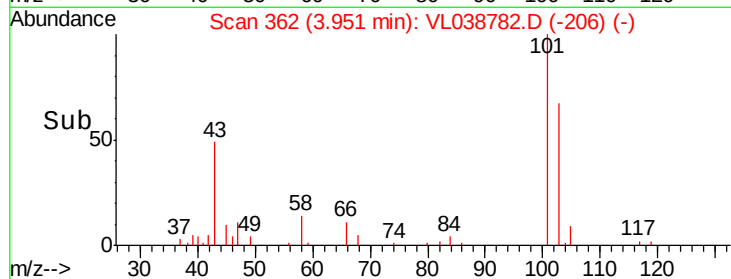
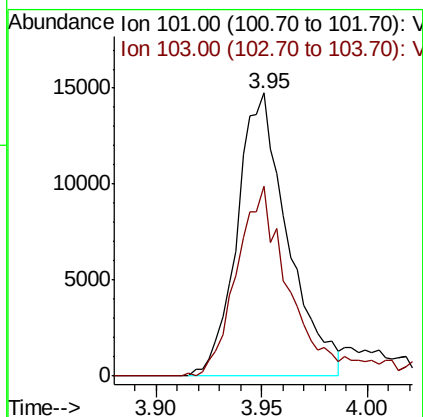
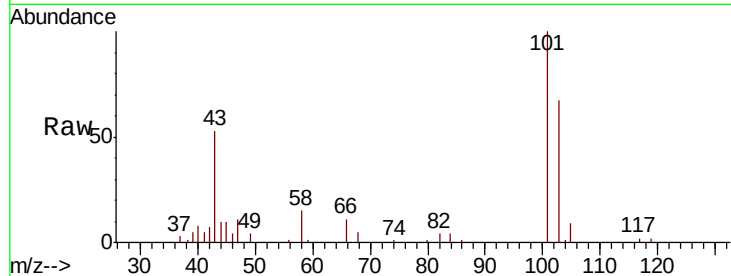
57 91.8 41.4 62.2#





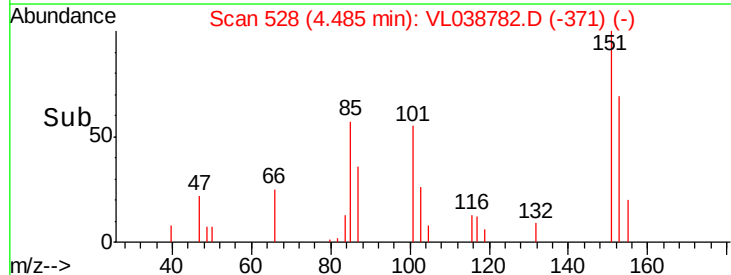
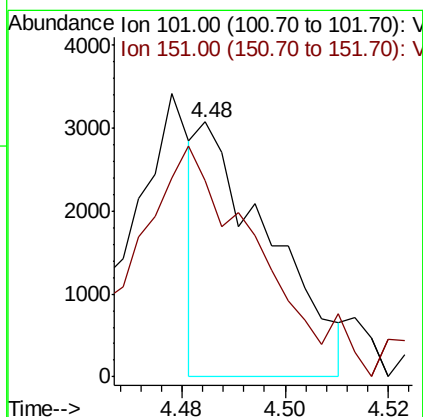
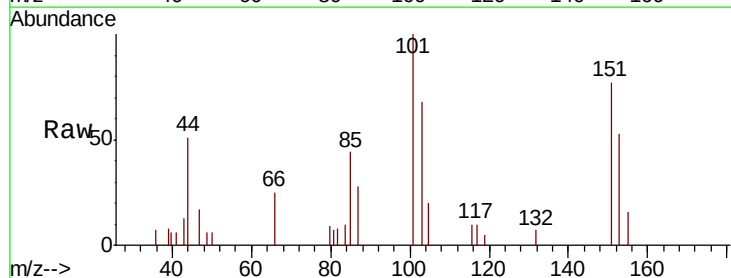
#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 V-1
 Acq: 28 Mar 2022 22:21

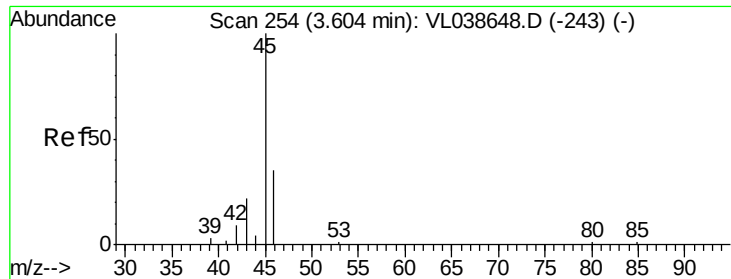
Tot Ion:101 Resp: 24588
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.041 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VL038782.D
 Acq: 28 Mar 2022 22:21

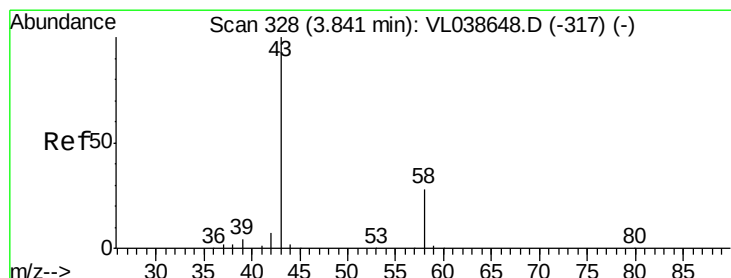
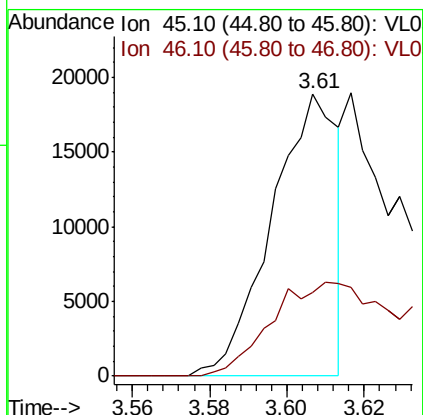
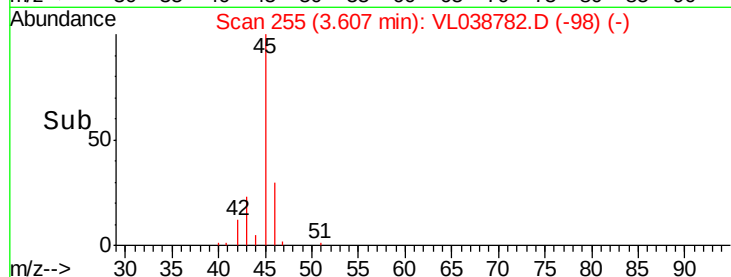
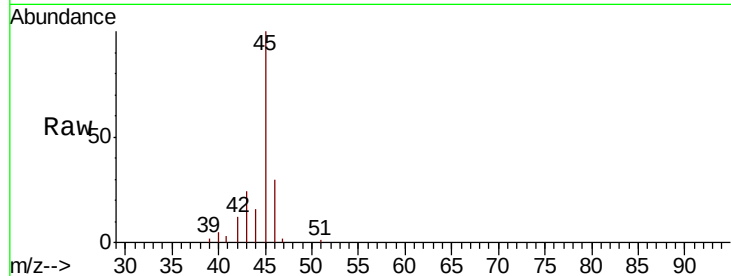
Tgt Ion:101 Resp: 2942
 Ion Ratio Lower Upper
 101 100
 151 166.7 62.9 94.3#





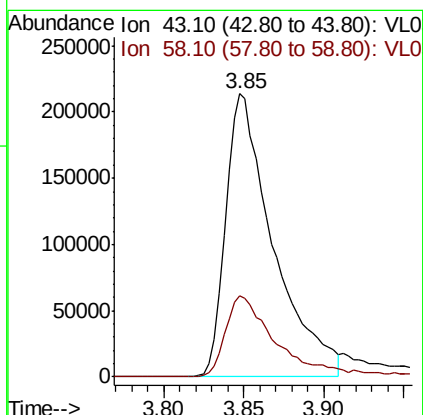
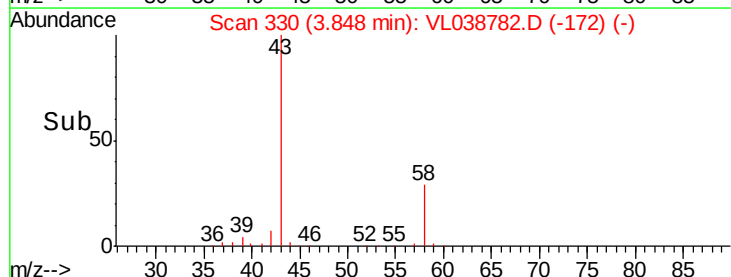
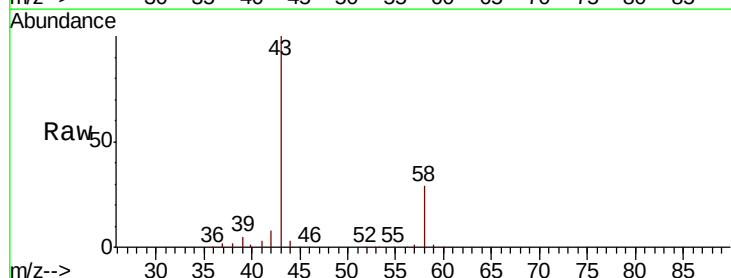
#13
Ethanol
Concen: 5.121 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 28 Mar 2022 22:21

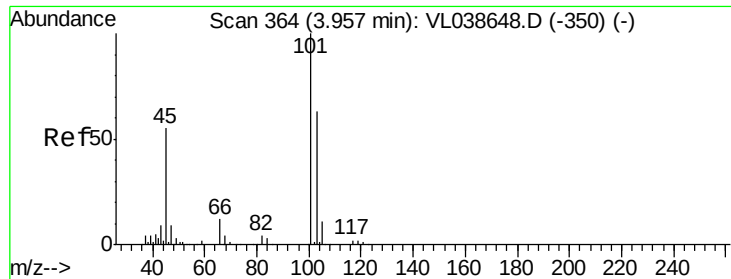
Tot Ion: 45 Resp: 22379
Ion Ratio Lower Upper
45 100
46 92.6 15.1 60.5#



#15
Acetone
Concen: 6.472 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL038782.D
Acq: 28 Mar 2022 22:21

Tgt Ion: 43 Resp: 433837
Ion Ratio Lower Upper
43 100
58 33.1 23.3 34.9





#19

Isopropyl Alcohol

Concen: 0.805 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T. V-1

Lab File: ClientSampleId:

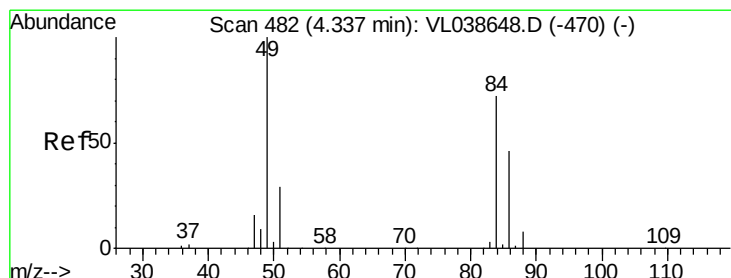
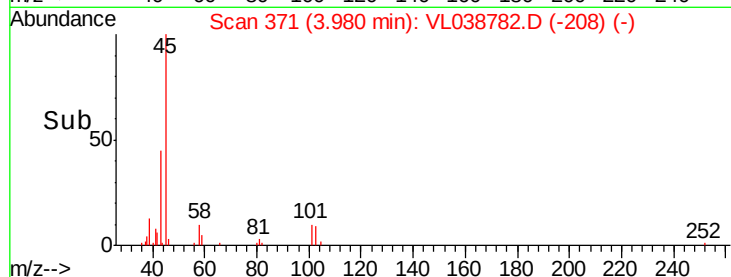
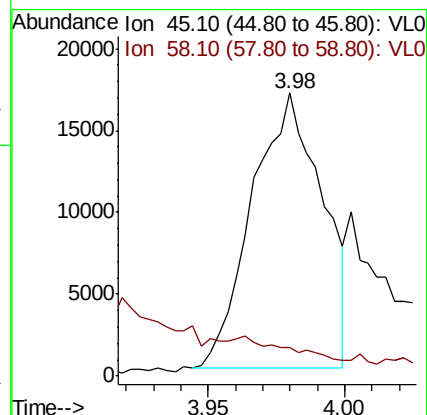
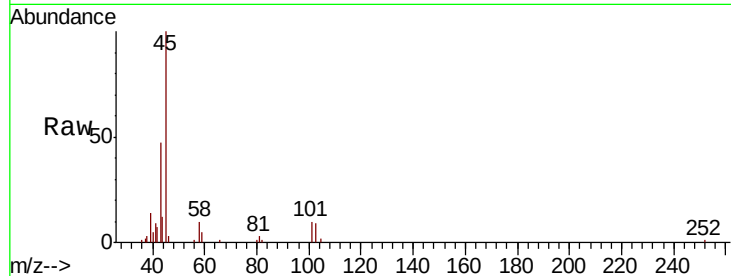
Acq: 28 Mar 2022 22:21

Tot Ion: 45 Resp: 29928

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



#20

Methylene Chloride

Concen: 0.379 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL038782.D

Acq: 28 Mar 2022 22:21

Tgt Ion: 84 Resp: 10699

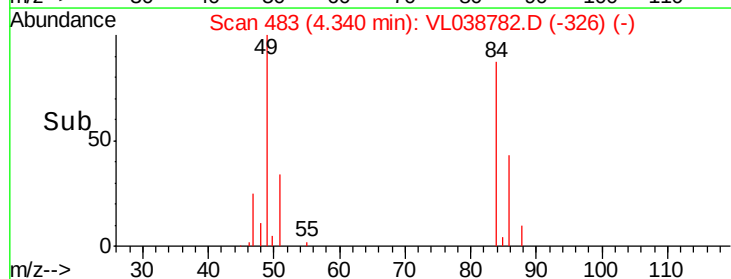
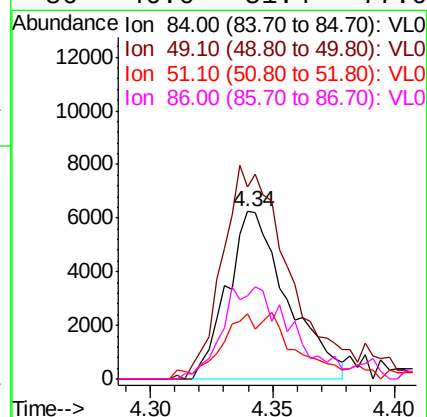
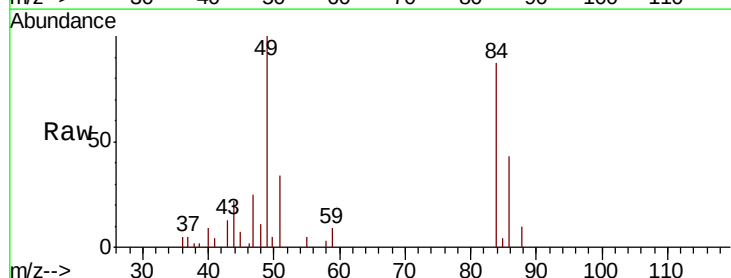
Ion Ratio Lower Upper

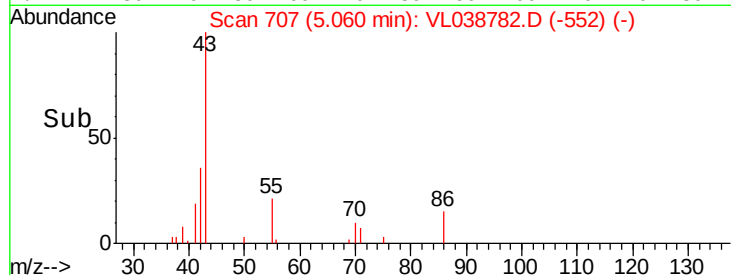
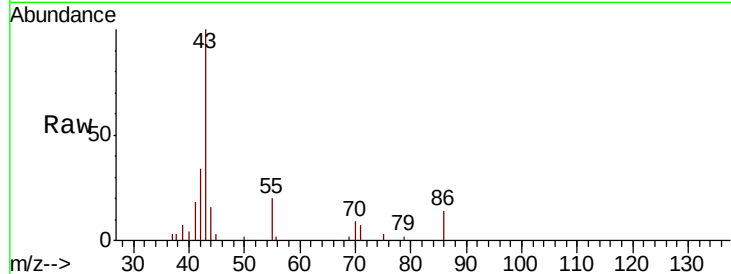
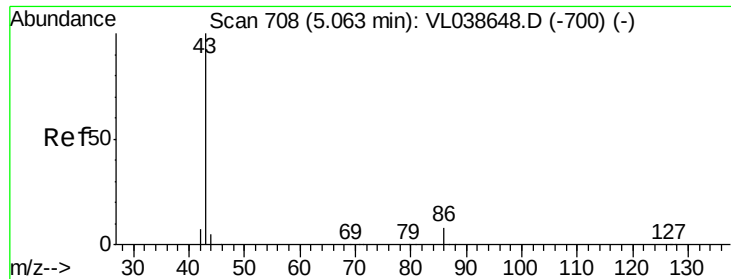
84 100

49 112.8 111.2 166.8

51 35.9 32.8 49.2

86 46.6 51.4 77.0#





#23

Vinyl Acetate

Concen: 0.229 ppbv

RT: 5.06 Instrument: MSVOA_1

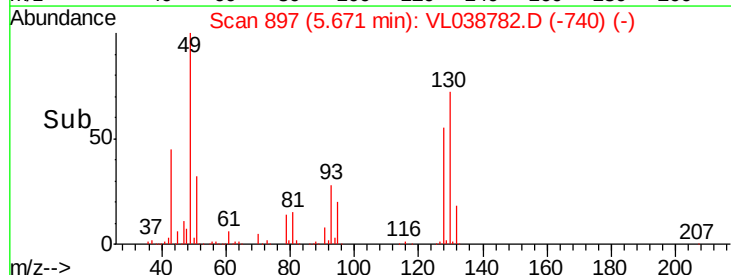
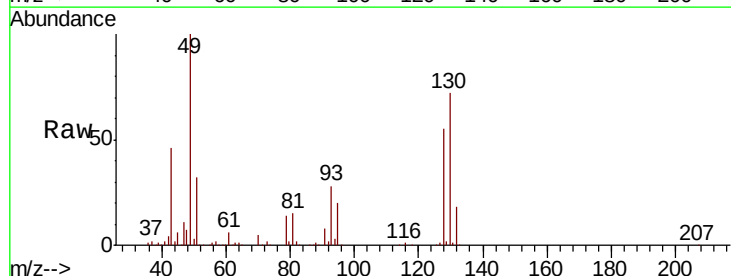
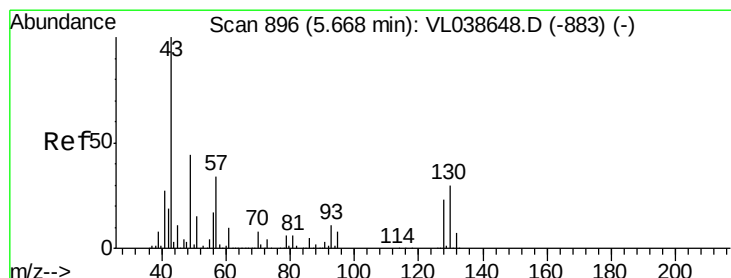
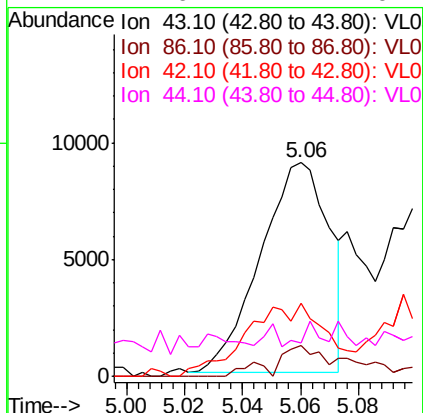
Delta R.T.

Lab File: ClientSampleId:

Acq: 28 Mar 2022 22:21

Tot Ion: 43 Resp: 14833

Ion	Ratio	Lower	Upper
43	100		
86	14.6	5.6	8.4#
42	29.2	6.8	10.2#
44	4.6	4.2	6.2



#25

Ethyl Acetate

Concen: 1.532 ppbv

RT: 5.67 min Scan# 897

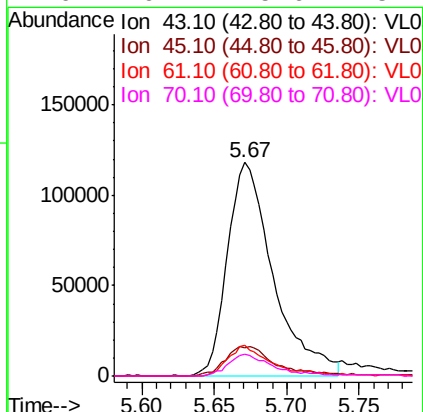
Delta R.T. 0.00 min

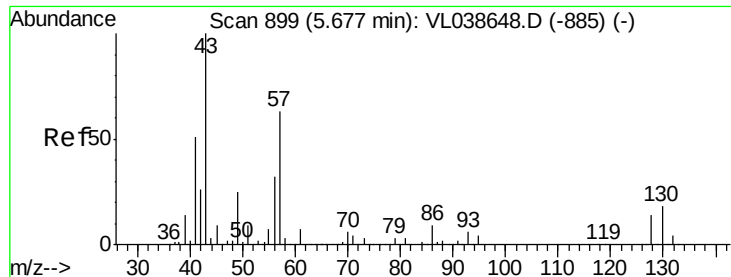
Lab File: VL038782.D

Acq: 28 Mar 2022 22:21

Tgt Ion: 43 Resp: 258467

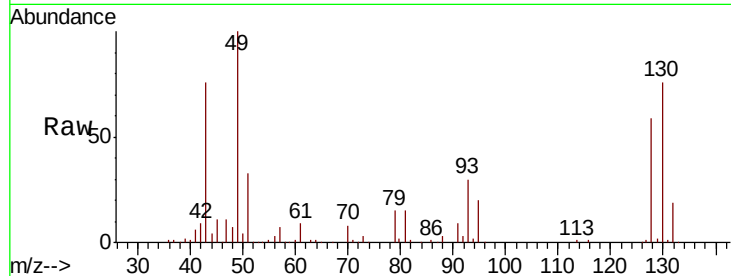
Ion	Ratio	Lower	Upper
43	100		
45	16.0	8.2	12.4#
61	14.5	8.3	12.5#
70	10.7	5.6	8.4#



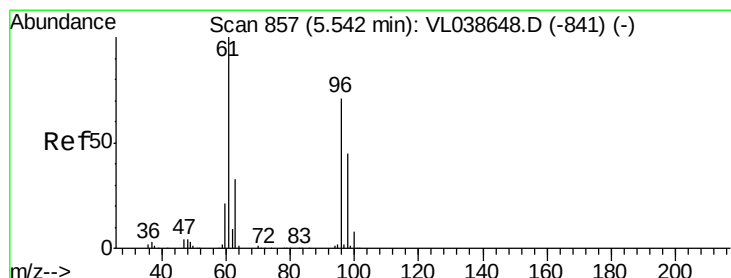
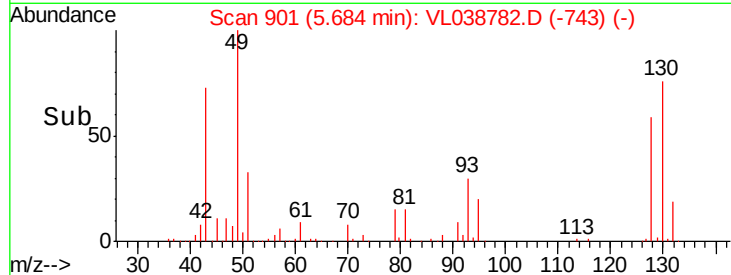
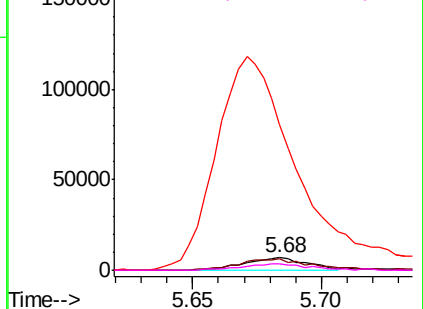


#26
Hexane
Concen: 0.155 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Mar 2022 22:21

Tot Ion: 57 Resp: 11721
Ion Ratio Lower Upper
57 100
41 109.1 67.0 100.4#
43 2396.4 184.2 276.2#
56 59.5 42.6 64.0

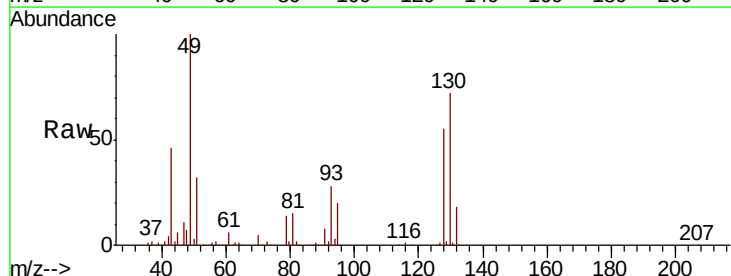


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

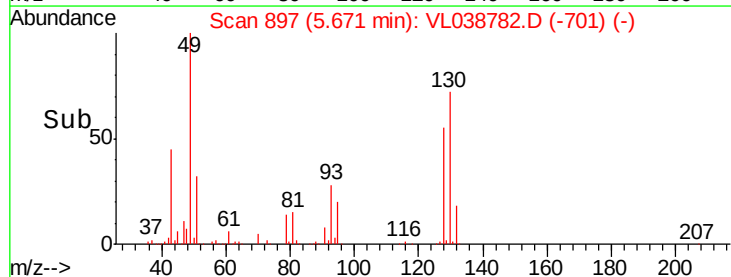
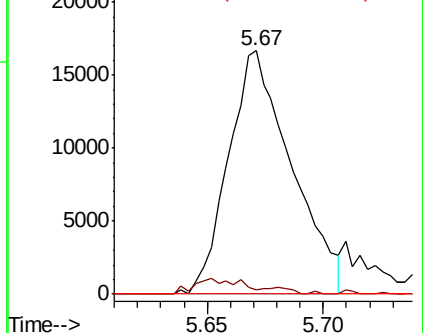


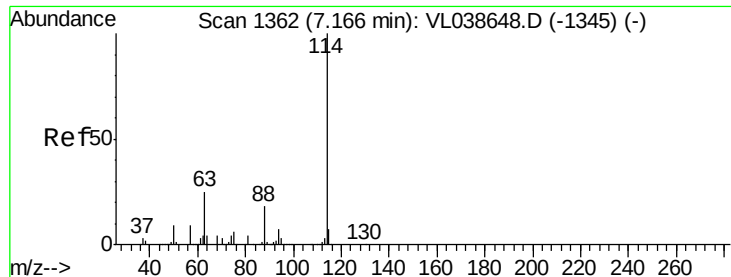
#31
cis-1,2-Dichloroethene
Concen: 0.443 ppbv
RT: 5.67 min Scan# 897
Delta R.T.: 0.13 min
Lab File: VL038782.D
Acq: 28 Mar 2022 22:21

Tgt Ion: 61 Resp: 31458
Ion Ratio Lower Upper
61 100
96 1.9 56.6 84.8#
98 0.0 36.3 54.5#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

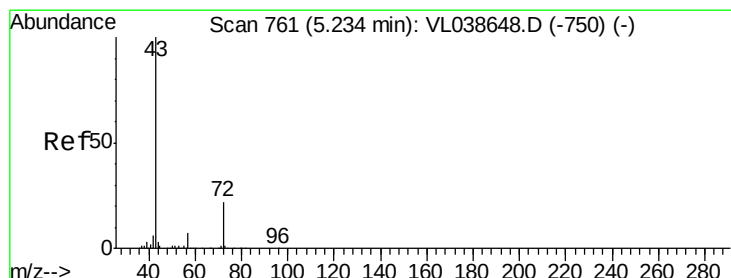
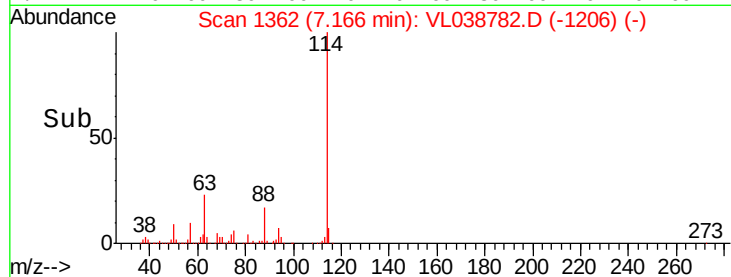
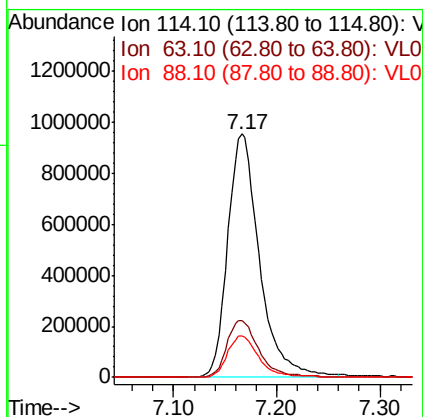
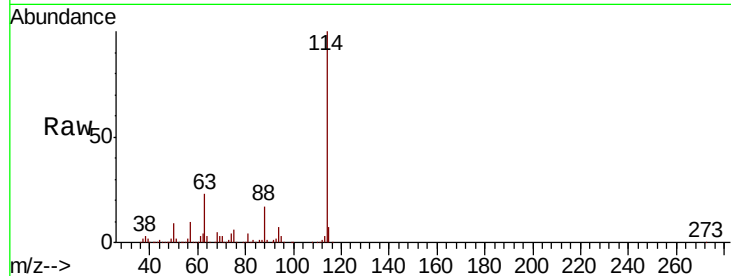




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 V-1
 Acq: 28 Mar 2022 22:21

Tot Ion:114 Resp: 2057044

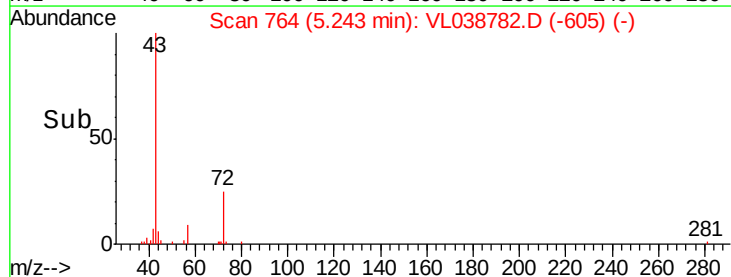
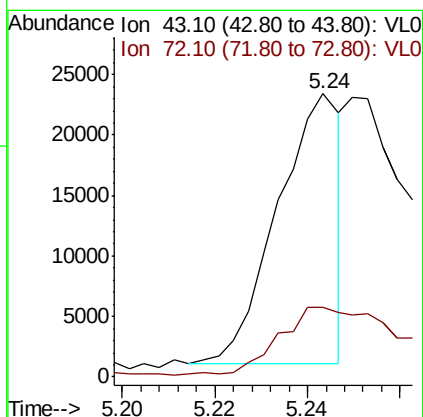
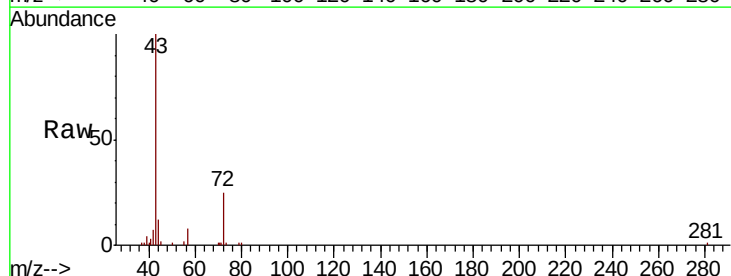
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.0
88	17.2	13.9	20.9

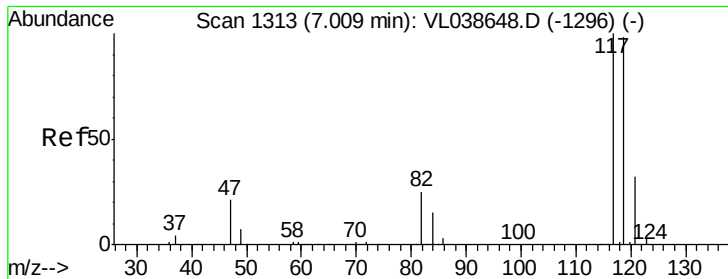


#34
 2-Butanone
 Concen: 0.260 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL038782.D
 Acq: 28 Mar 2022 22:21

Tgt Ion: 43 Resp: 21183

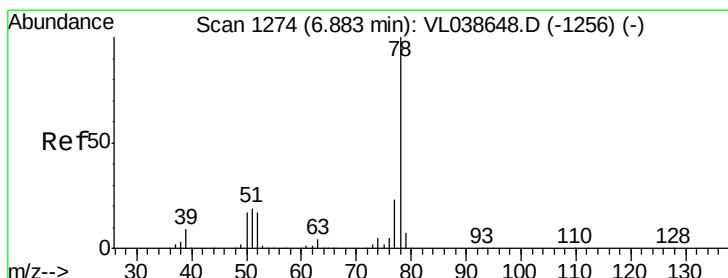
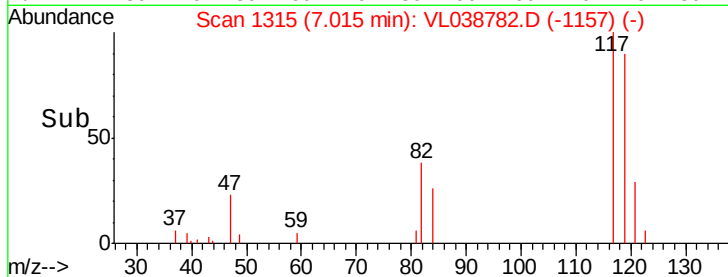
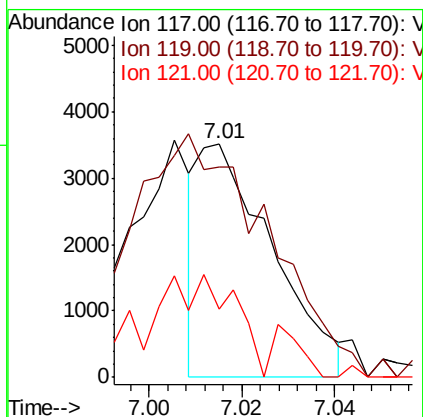
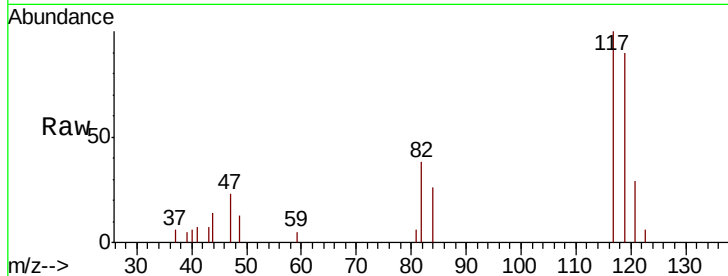
Ion	Ratio	Lower	Upper
43	100		
72	66.5	17.8	26.8#





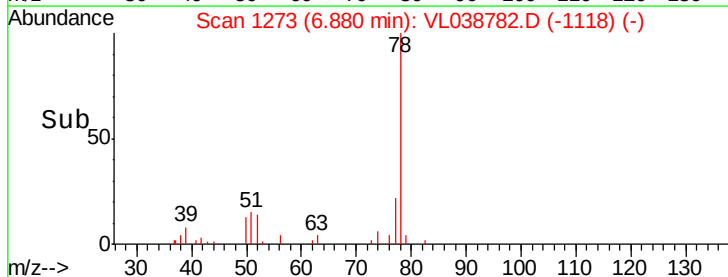
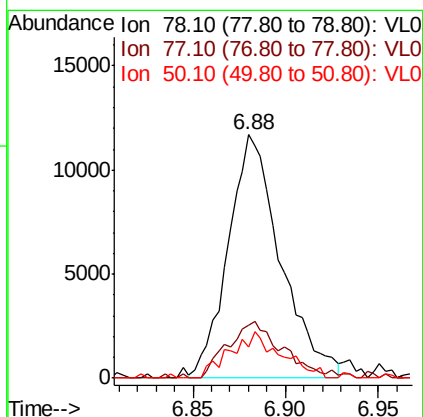
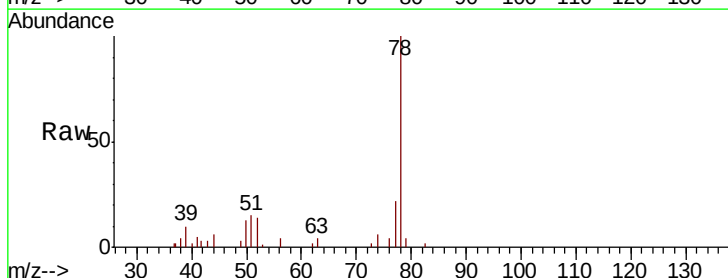
#35
 Carbon Tetrachloride
 Concen: 0.032 ppbv
 RT: 7.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Mar 2022 22:21

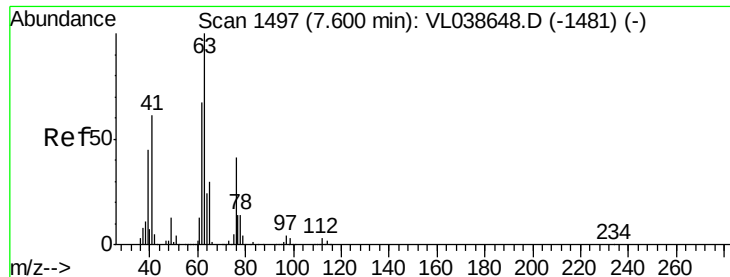
Tot Ion: 117 Resp: 3870
 Ion Ratio Lower Upper
 117 100
 119 90.4 78.1 117.1
 121 34.3 25.8 38.6



#36
 Benzene
 Concen: 0.145 ppbv
 RT: 6.88 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VL038782.D
 Acq: 28 Mar 2022 22:21

Tgt Ion: 78 Resp: 22946
 Ion Ratio Lower Upper
 78 100
 77 21.9 18.1 27.1
 50 12.7 13.6 20.4#





#39

1,2-Dichloropropane

Concen: 7.768 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Mar 2022 22:21

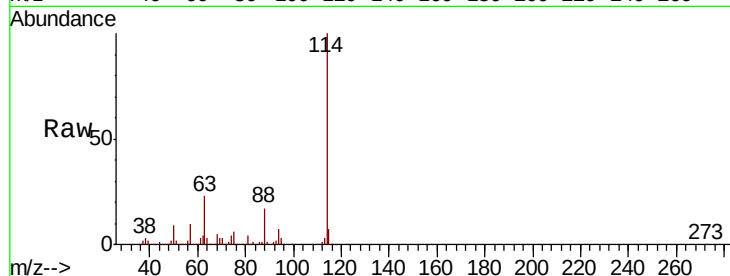
Tot Ion: 63 Resp: 482138

Ion Ratio Lower Upper

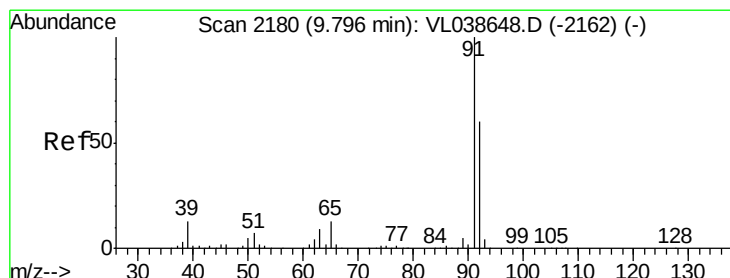
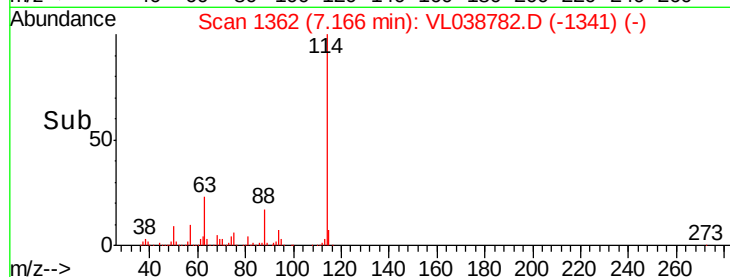
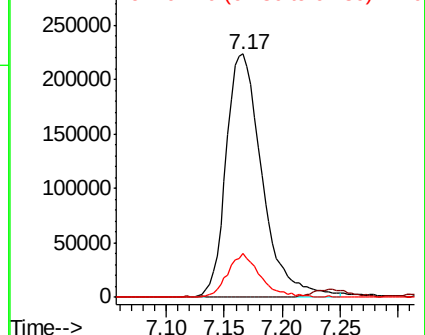
63 100

41 0.0 49.0 73.6#

62 18.2 53.9 80.9#



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: 0.294 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL038782.D

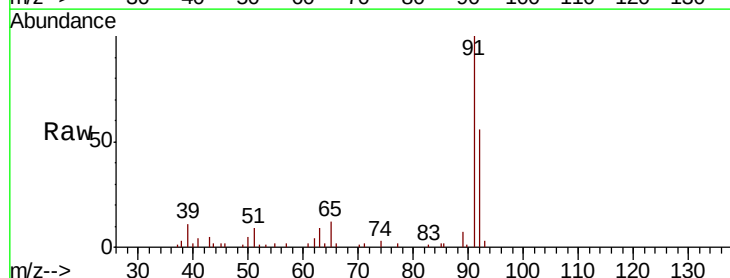
Acq: 28 Mar 2022 22:21

Tgt Ion: 91 Resp: 50116

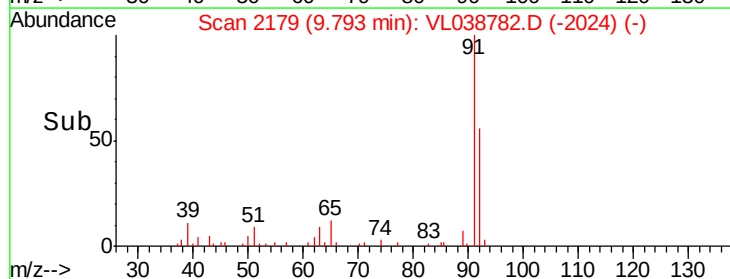
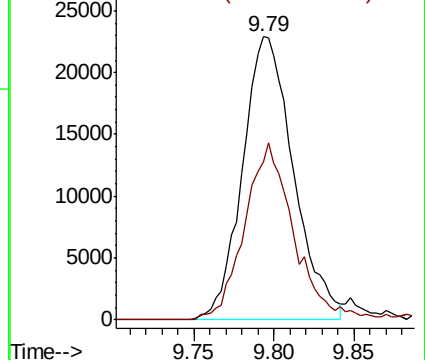
Ion Ratio Lower Upper

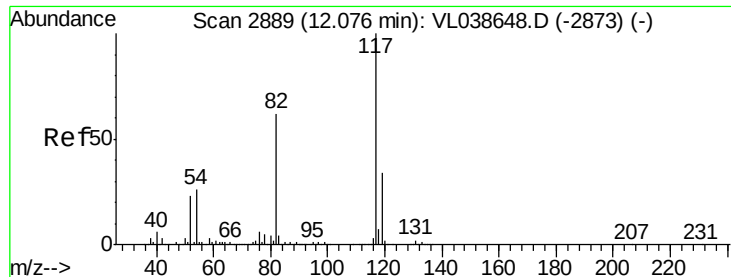
91 100

92 60.5 48.7 73.1



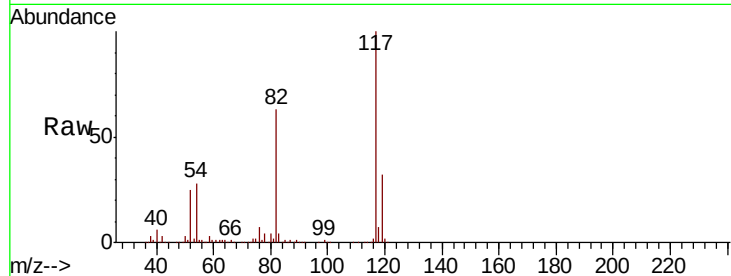
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



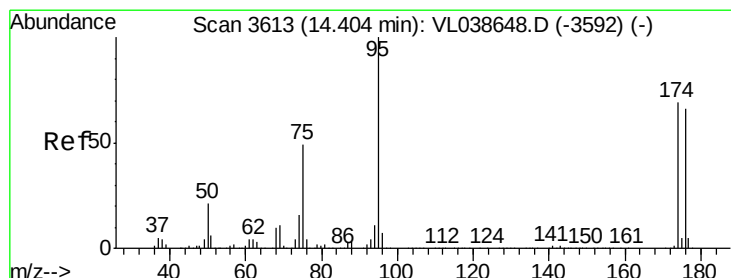
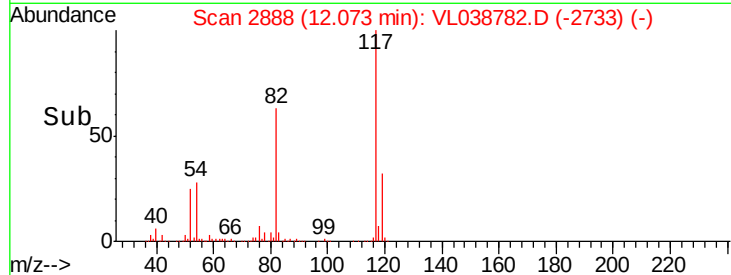
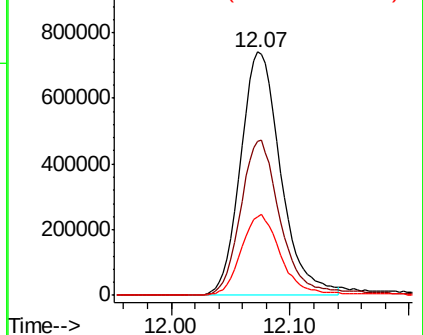


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 V-1
 Acq: 28 Mar 2022 22:21

Tot Ion: 117 Resp: 1734699
 Ion Ratio Lower Upper
 117 100
 82 65.4 51.6 77.4
 119 34.2 26.9 40.3

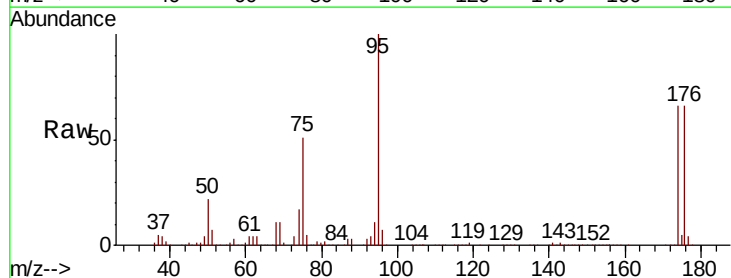


Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.977 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T.: -0.00 min
 Lab File: VL038782.D
 Acq: 28 Mar 2022 22:21

Tgt Ion: 95 Resp: 1326884
 Ion Ratio Lower Upper
 95 100
 174 70.0 56.1 84.1
 175 4.9 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

