

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038154.D
 Acq On : 7 Dec 2021 17:26
 Operator : SY/AP
 Sample : M4897-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 08 02:02:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	828050	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2264037	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1996969	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1565346	10.87	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.70%

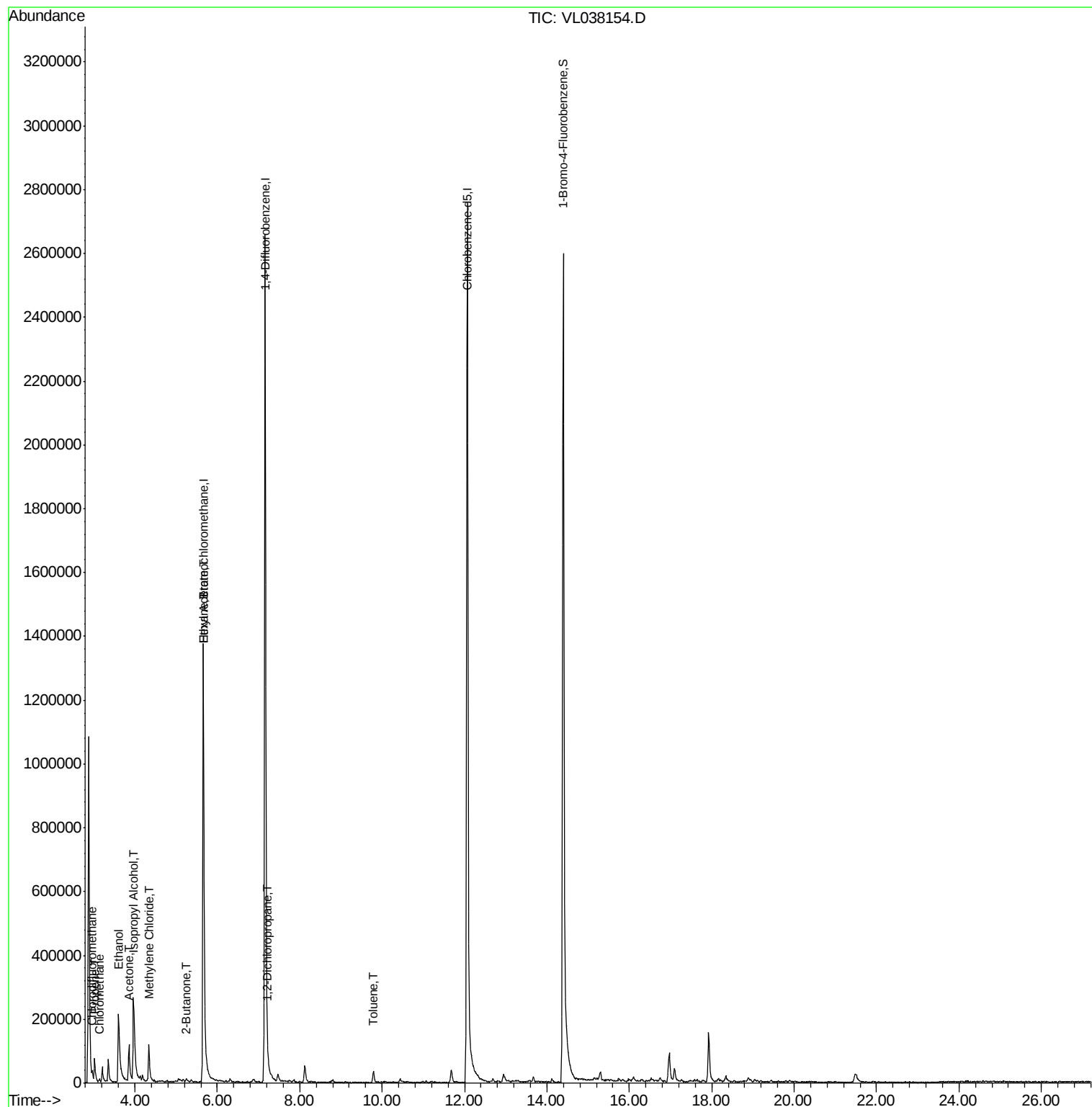
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	26805	0.154	ppbv #	67
4) Chloromethane	3.14	50	4669	0.079	ppbv	92
9) Propene	3.02	41	14201	0.222	ppbv	98
13) Ethanol	3.60	45	334026	53.972	ppbv	94
15) Acetone	3.85	43	151426	2.109	ppbv	99
19) Isopropyl Alcohol	3.96	45	394599	7.607	ppbv #	99
20) Methylene Chloride	4.34	84	49630	1.234	ppbv	95
25) Ethyl Acetate	5.67	43	34905	0.146	ppbv #	94
26) Hexane	5.67	57	13229	0.115	ppbv #	26
34) 2-Butanone	5.24	43	2883	0.032	ppbv #	1
39) 1,2-Dichloropropane	7.23	63	6210	0.072	ppbv #	32
53) Toluene	9.79	91	28846	0.111	ppbv	100

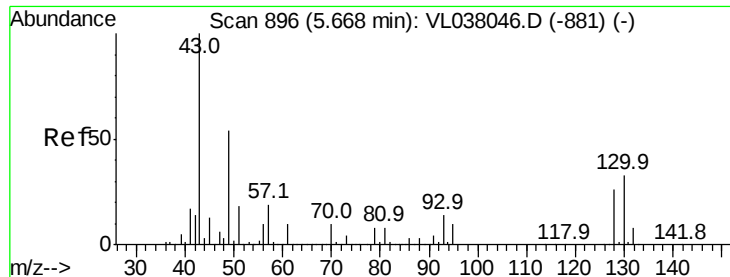
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 08 02:02:46 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
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QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Dec 2021 17:26

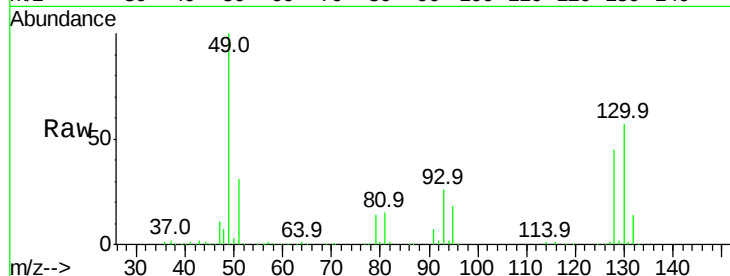
Tot Ion: 49 Resp: 828050

Ion Ratio Lower Upper

49 100

128 49.1 26.5 79.5

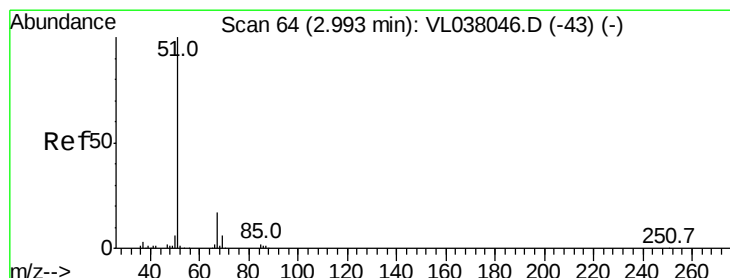
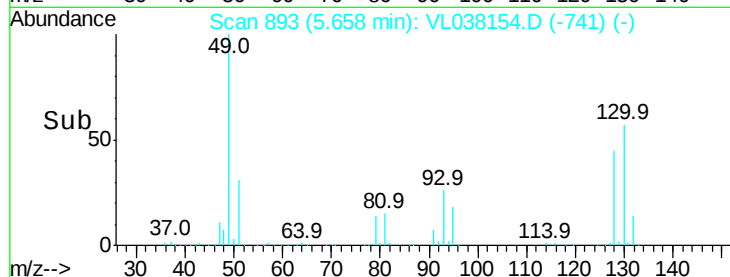
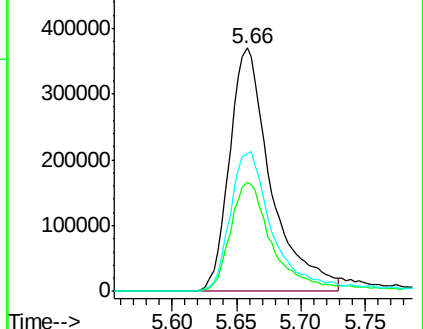
130 60.9 32.5 97.4



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: 0.154 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL038154.D

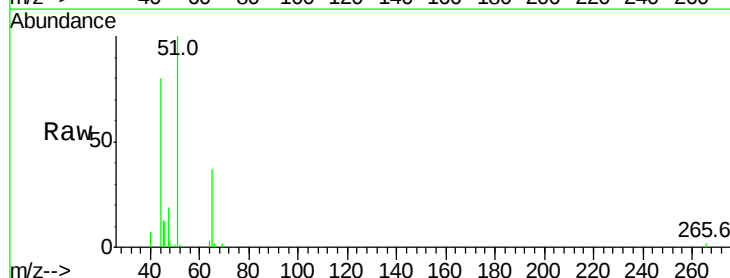
Acq: 7 Dec 2021 17:26

Tgt Ion: 51 Resp: 26805

Ion Ratio Lower Upper

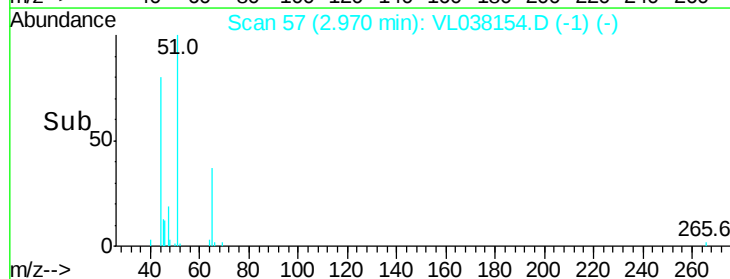
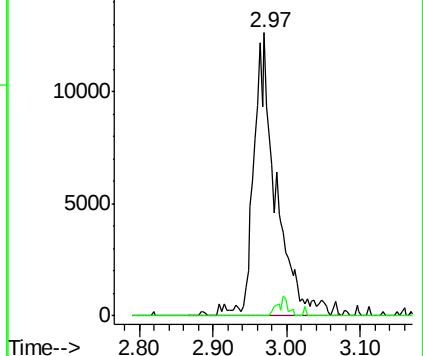
51 100

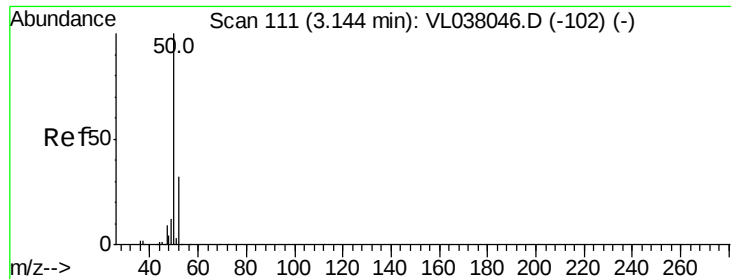
67 3.1 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.079 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

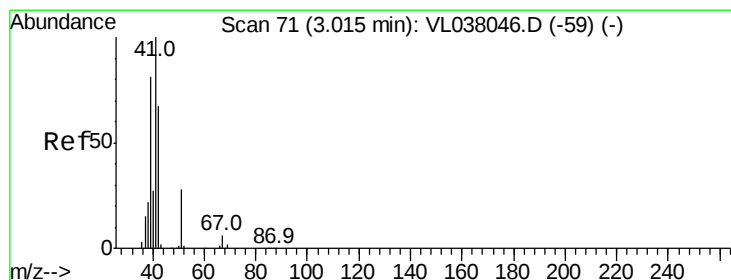
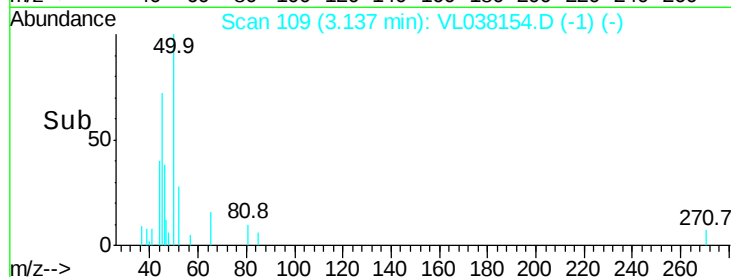
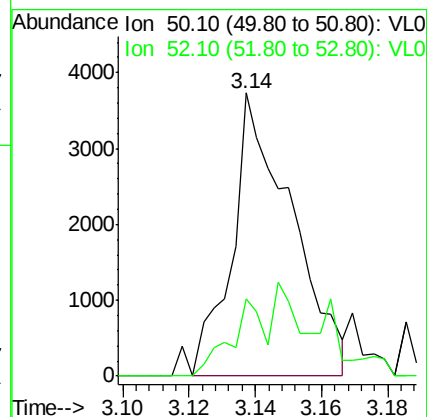
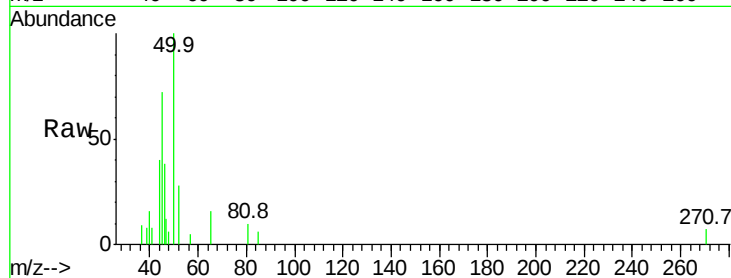
Acq: 7 Dec 2021 17:28

Tot Ion: 50 Resp: 4669

Ion Ratio Lower Upper

50 100

52 27.5 25.4 38.0



#9

Propene

Concen: 0.222 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL038154.D

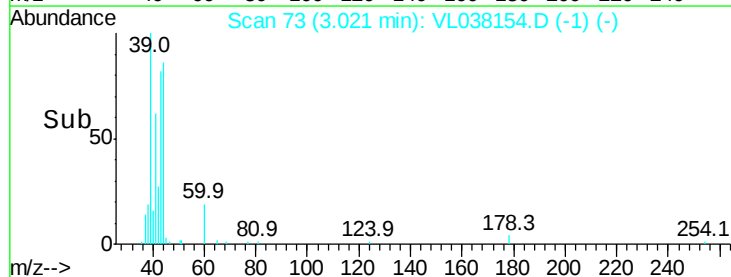
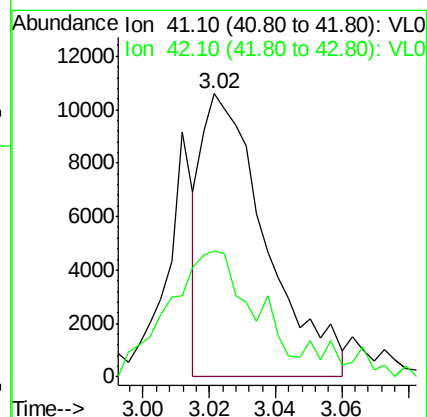
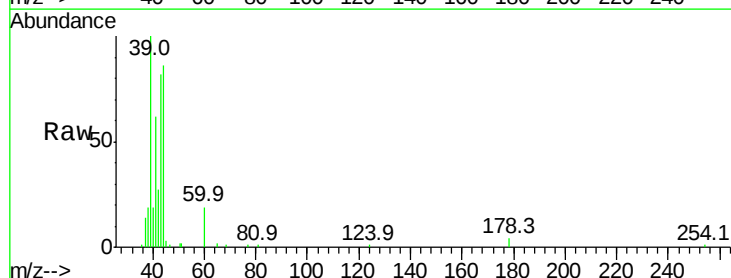
Acq: 7 Dec 2021 17:26

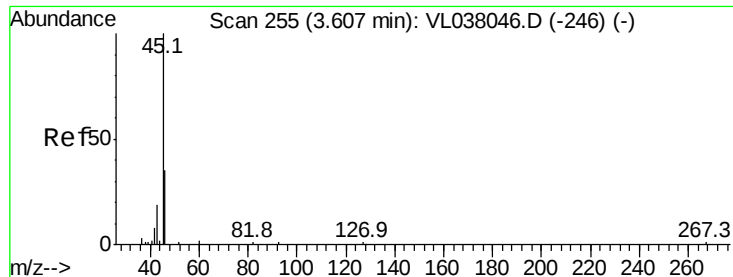
Tgt Ion: 41 Resp: 14201

Ion Ratio Lower Upper

41 100

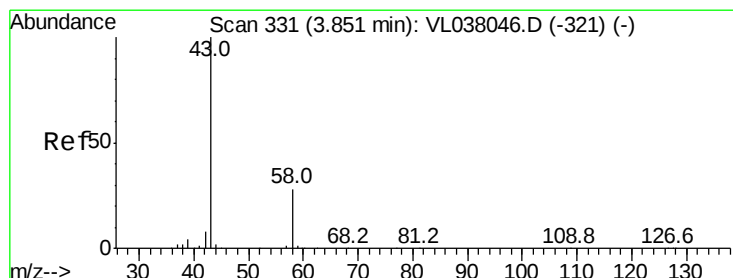
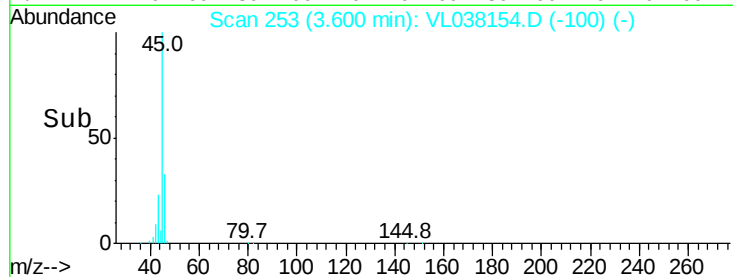
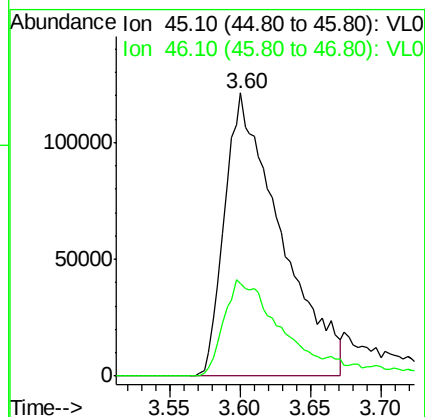
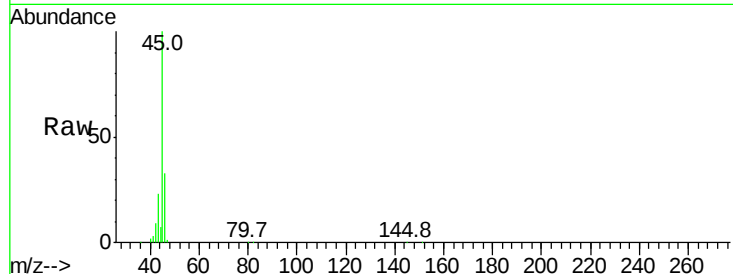
42 69.3 53.8 80.8





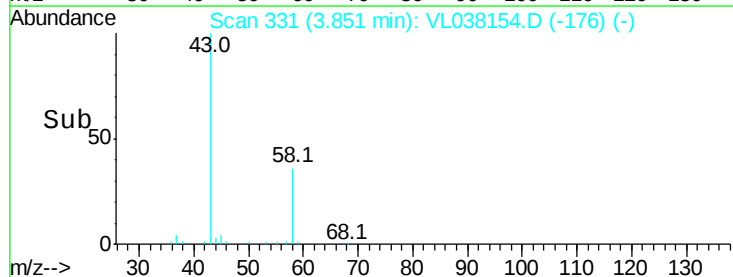
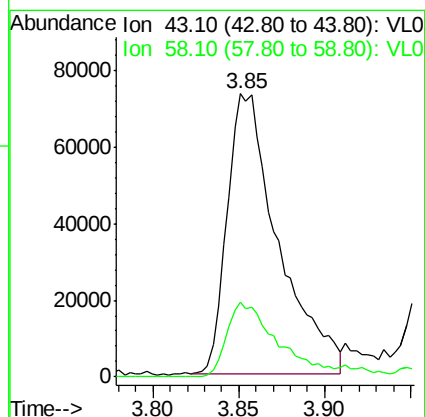
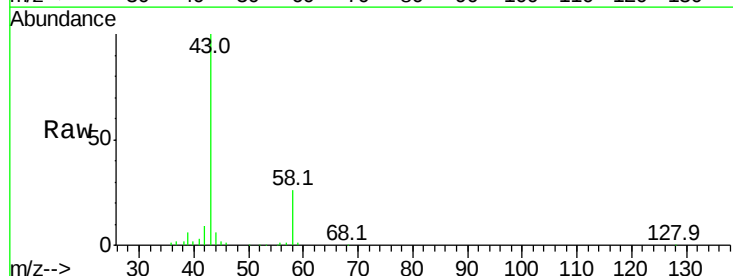
#13
Ethanol
Concen: 53.972 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 17:26

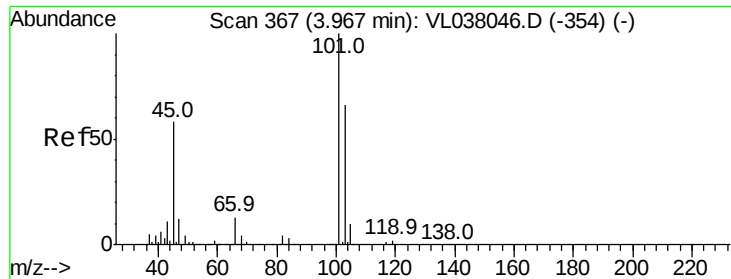
Tot Ion: 45 Resp: 334026
Ion Ratio Lower Upper
45 100
46 39.7 17.6 70.2



#15
Acetone
Concen: 2.109 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL038154.D
Acq: 7 Dec 2021 17:26

Tgt Ion: 43 Resp: 151426
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6





#19

Isopropyl Alcohol

Concen: 7.607 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

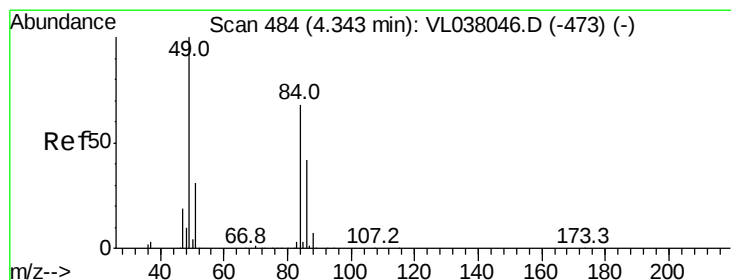
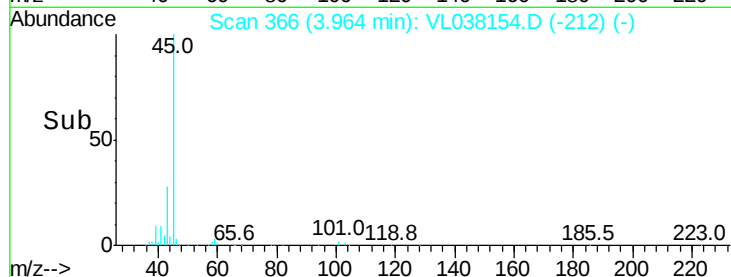
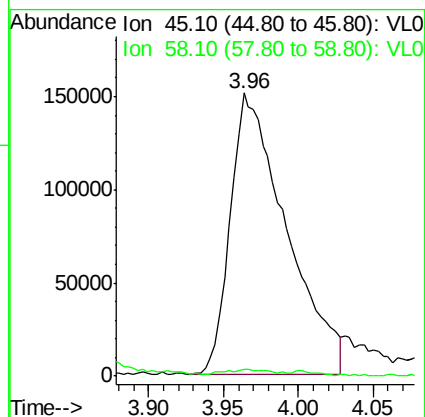
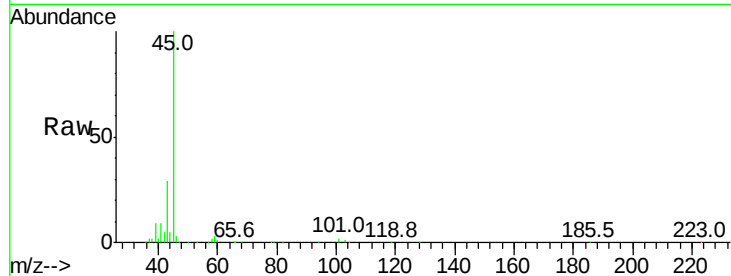
Acq: 7 Dec 2021 17:28

Tot Ion: 45 Resp: 394599

Ion Ratio Lower Upper

45 100

58 2.2 1.4 2.0#



#20

Methylene Chloride

Concen: 1.234 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL038154.D

Acq: 7 Dec 2021 17:26

Tgt Ion: 84 Resp: 49630

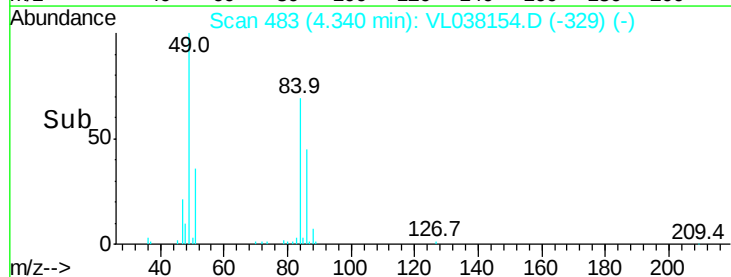
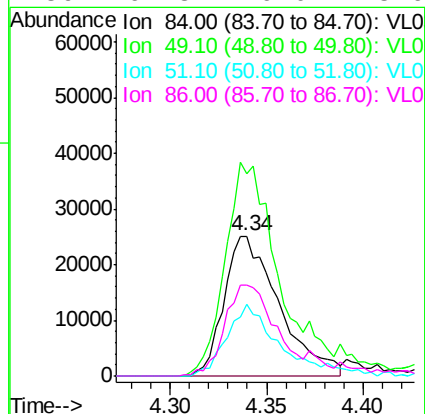
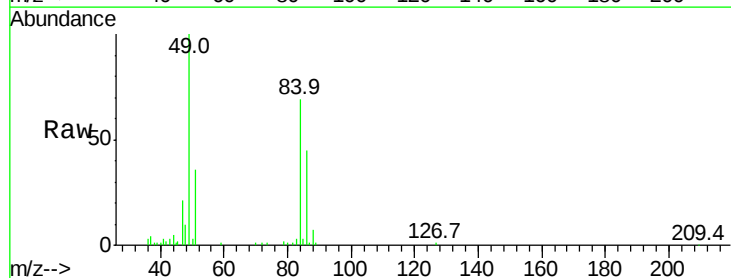
Ion Ratio Lower Upper

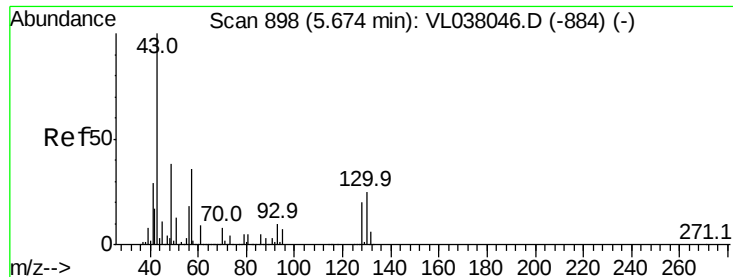
84 100

49 141.7 118.2 177.2

51 51.3 36.8 55.2

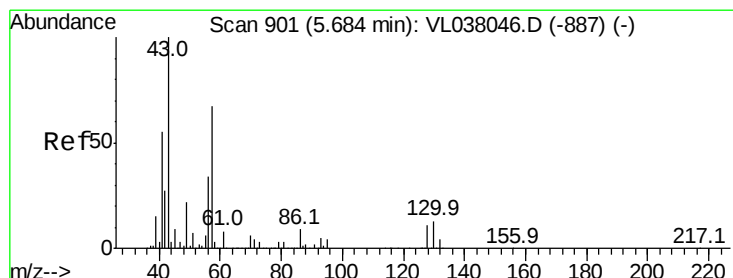
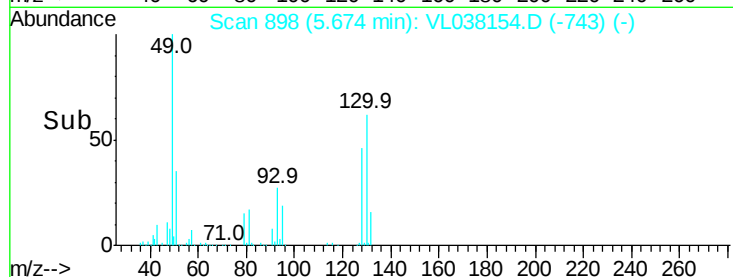
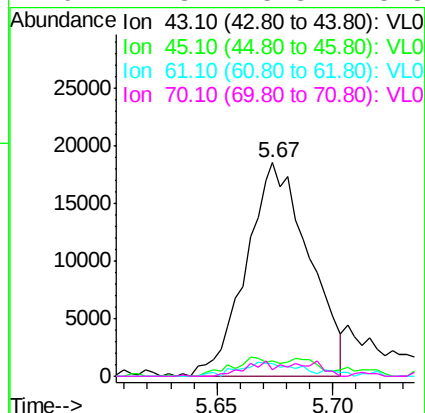
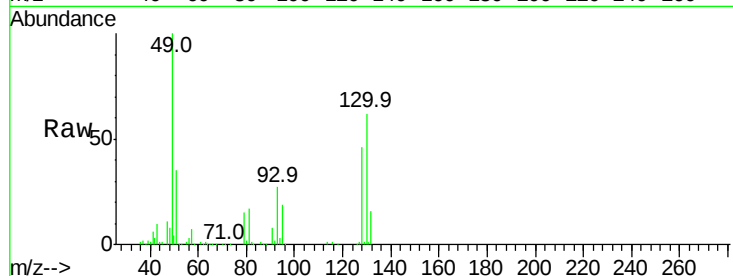
86 64.3 49.0 73.6





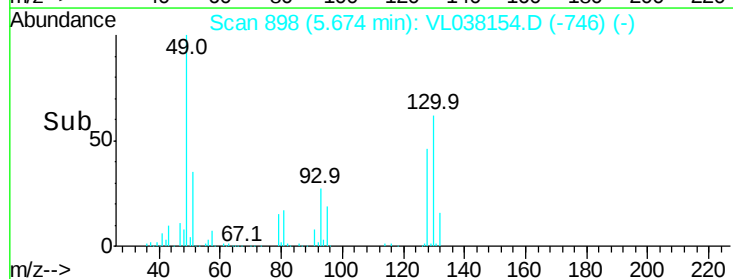
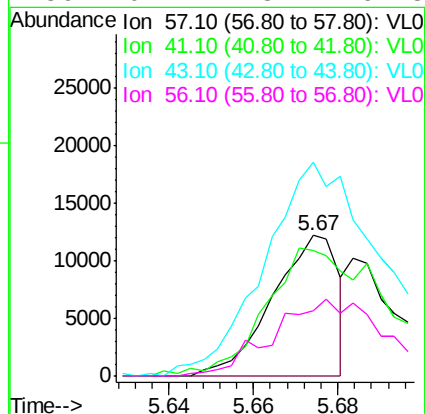
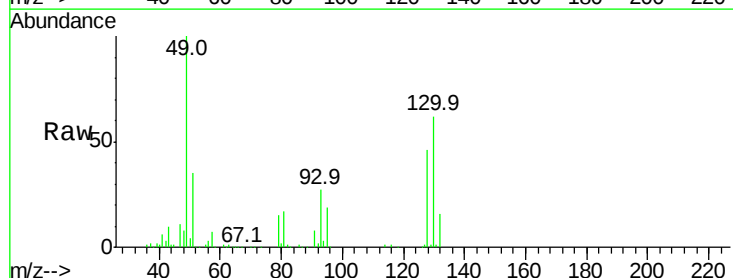
#25
Ethyl Acetate
Concen: 0.146 ppbv
RT: 5.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 17:26

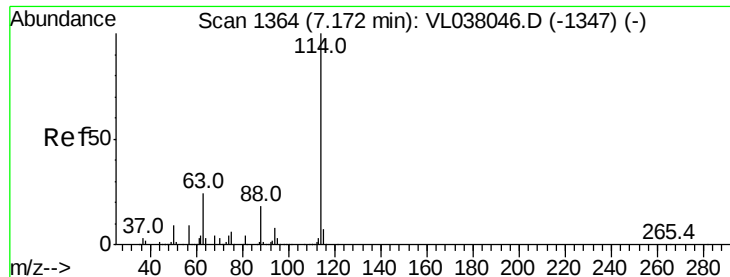
Tot Ion:	43	Resp:	34905
Ion	Ratio	Lower	Upper
43	100		
45	13.2	7.9	11.9#
61	7.4	7.8	11.6#
70	7.3	5.8	8.8



#26
Hexane
Concen: 0.115 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL038154.D
Acq: 7 Dec 2021 17:26

Tgt Ion:	57	Resp:	13229
Ion	Ratio	Lower	Upper
57	100		
41	184.5	71.4	107.2#
43	321.6	174.6	261.8#
56	101.1	43.2	64.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 7 Dec 2021 17:26

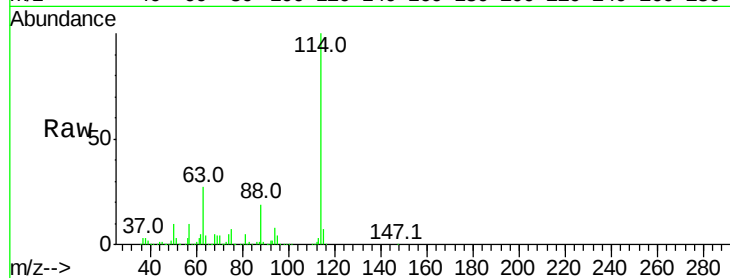
Tot Ion:114 Resp: 2264037

Ion Ratio Lower Upper

114 100

63 26.8 19.7 29.5

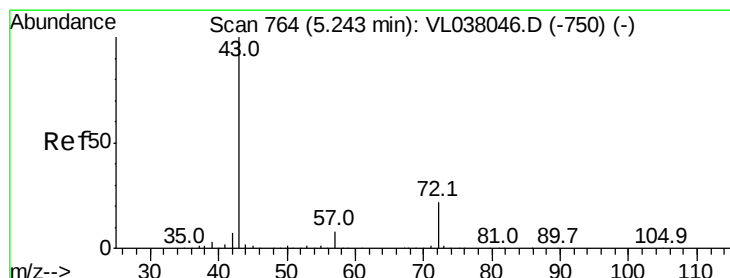
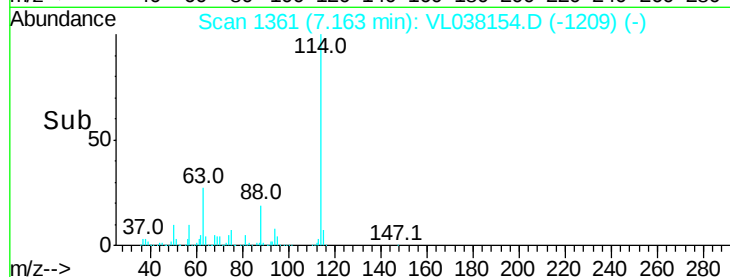
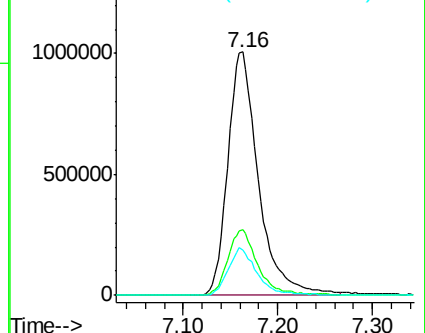
88 18.6 14.4 21.6



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



#34

2-Butanone

Concen: 0.032 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.00 min

Lab File: VL038154.D

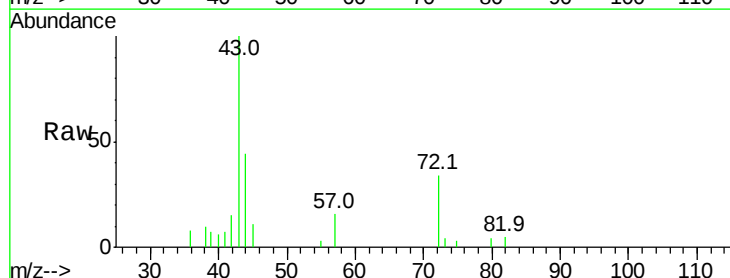
Acq: 7 Dec 2021 17:26

Tgt Ion: 43 Resp: 2883

Ion Ratio Lower Upper

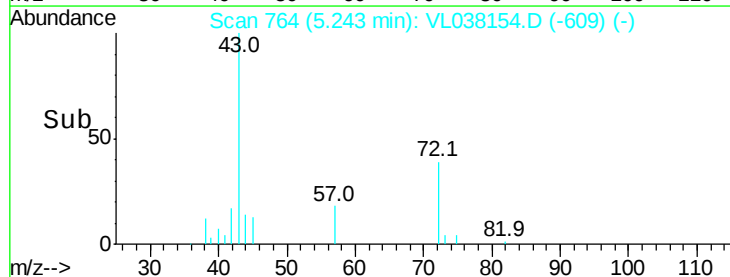
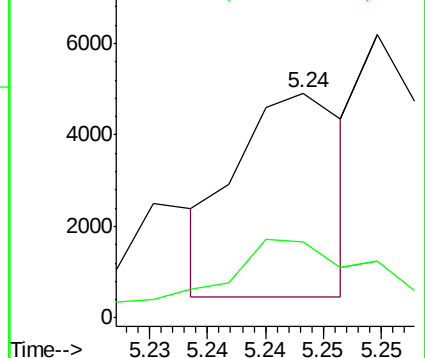
43 100

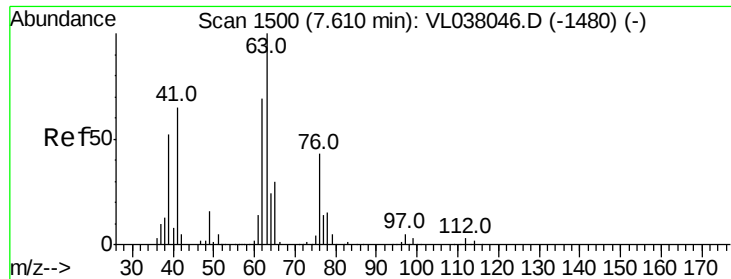
72 106.5 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

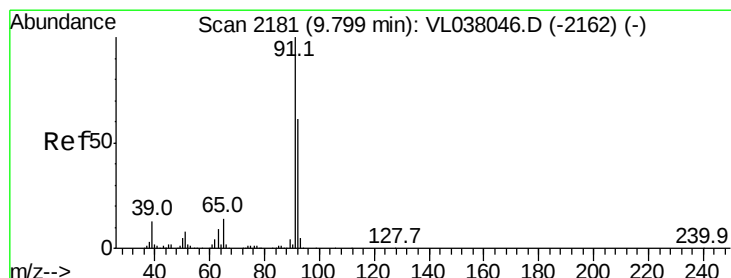
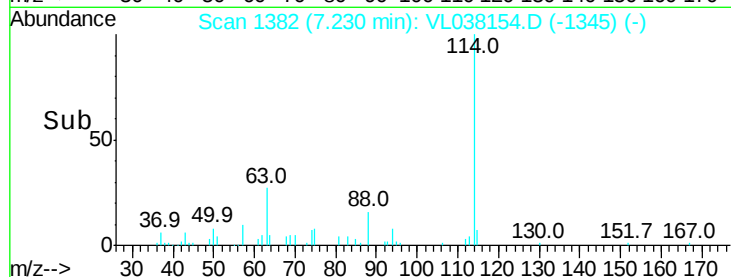
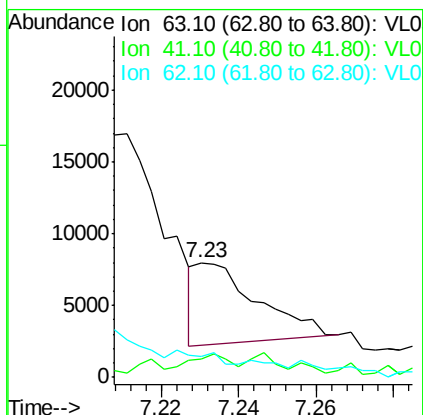
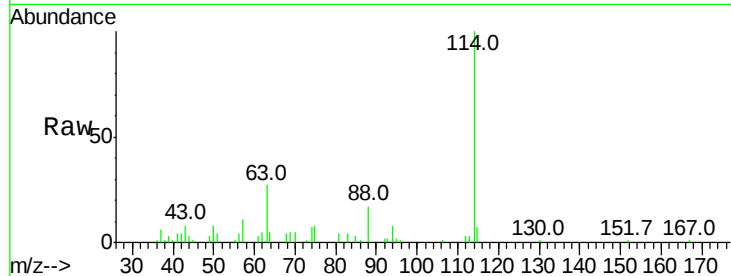
Ion 72.10 (71.80 to 72.80): VL0





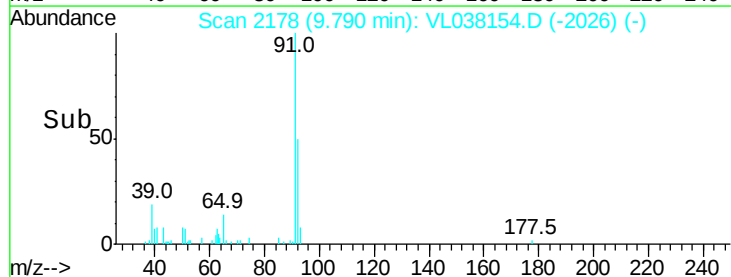
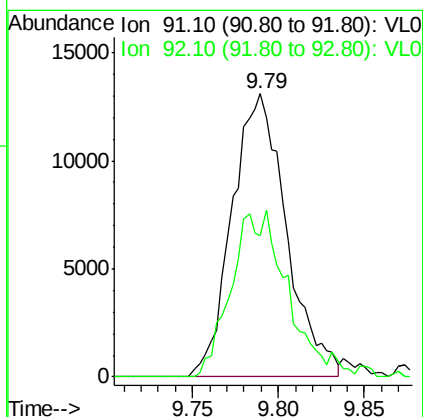
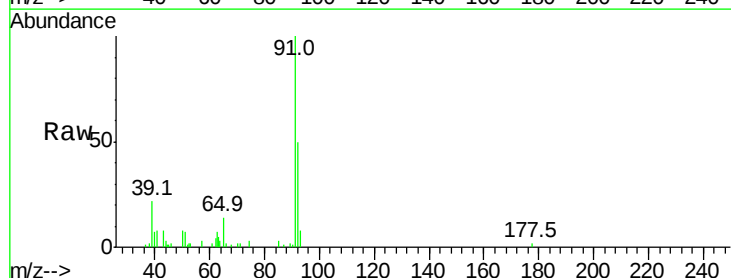
#39
 1,2-Dichloropropane
 Concen: 0.072 ppbv
 RT: 7.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Dec 2021 17:28

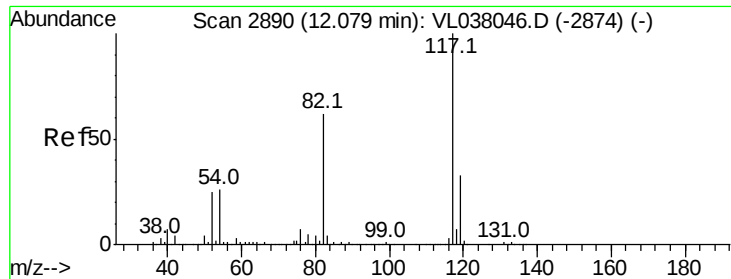
Tot Ion: 63 Resp: 6210
 Ion Ratio Lower Upper
 63 100
 41 12.7 52.3 78.5#
 62 12.3 55.1 82.7#



#53
 Toluene
 Concen: 0.111 ppbv
 RT: 9.79 min Scan# 2178
 Delta R.T. -0.01 min
 Lab File: VL038154.D
 Acq: 7 Dec 2021 17:26

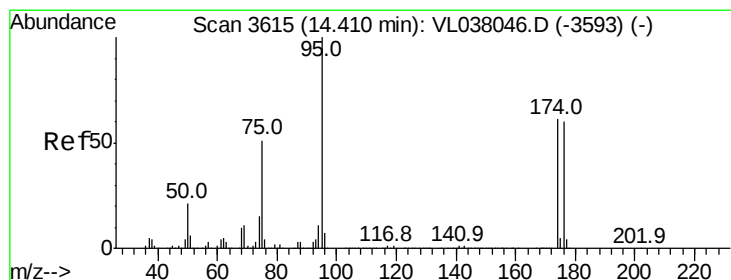
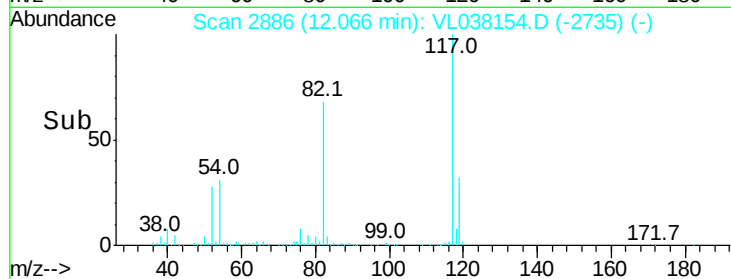
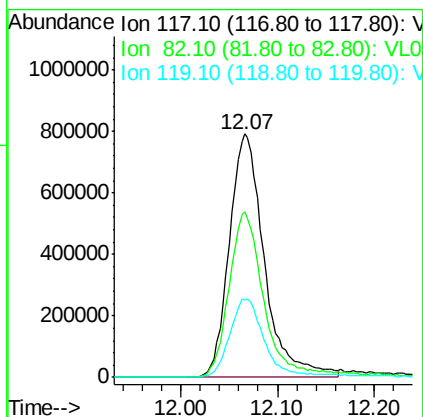
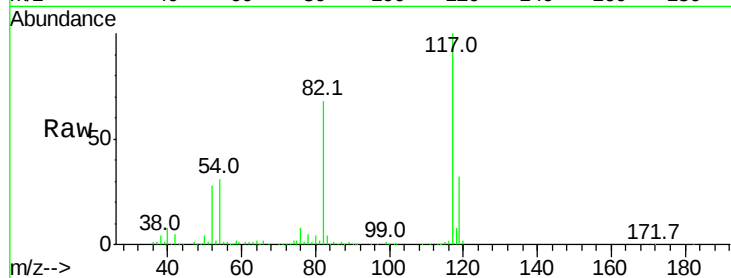
Tgt Ion: 91 Resp: 28846
 Ion Ratio Lower Upper
 91 100
 92 62.1 49.7 74.5





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 7 Dec 2021 17:26

Tot Ion: 117 Resp: 1996969
 Ion Ratio Lower Upper
 117 100
 82 69.9 52.8 79.2
 119 33.7 26.8 40.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.867 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T.: -0.02 min
 Lab File: VL038154.D
 Acq: 7 Dec 2021 17:26

Tgt Ion: 95 Resp: 1565346
 Ion Ratio Lower Upper
 95 100
 174 60.5 53.1 79.7
 175 4.4 4.0 6.0

