

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038107.D
 Acq On : 23 Nov 2021 19:57
 Operator : SY/AP
 Sample : M4805-09DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-JEWELRY-DESIGNDL

Quant Time: Nov 24 06:55:31 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	952060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2704796	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2316984	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1823887	10.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.10%

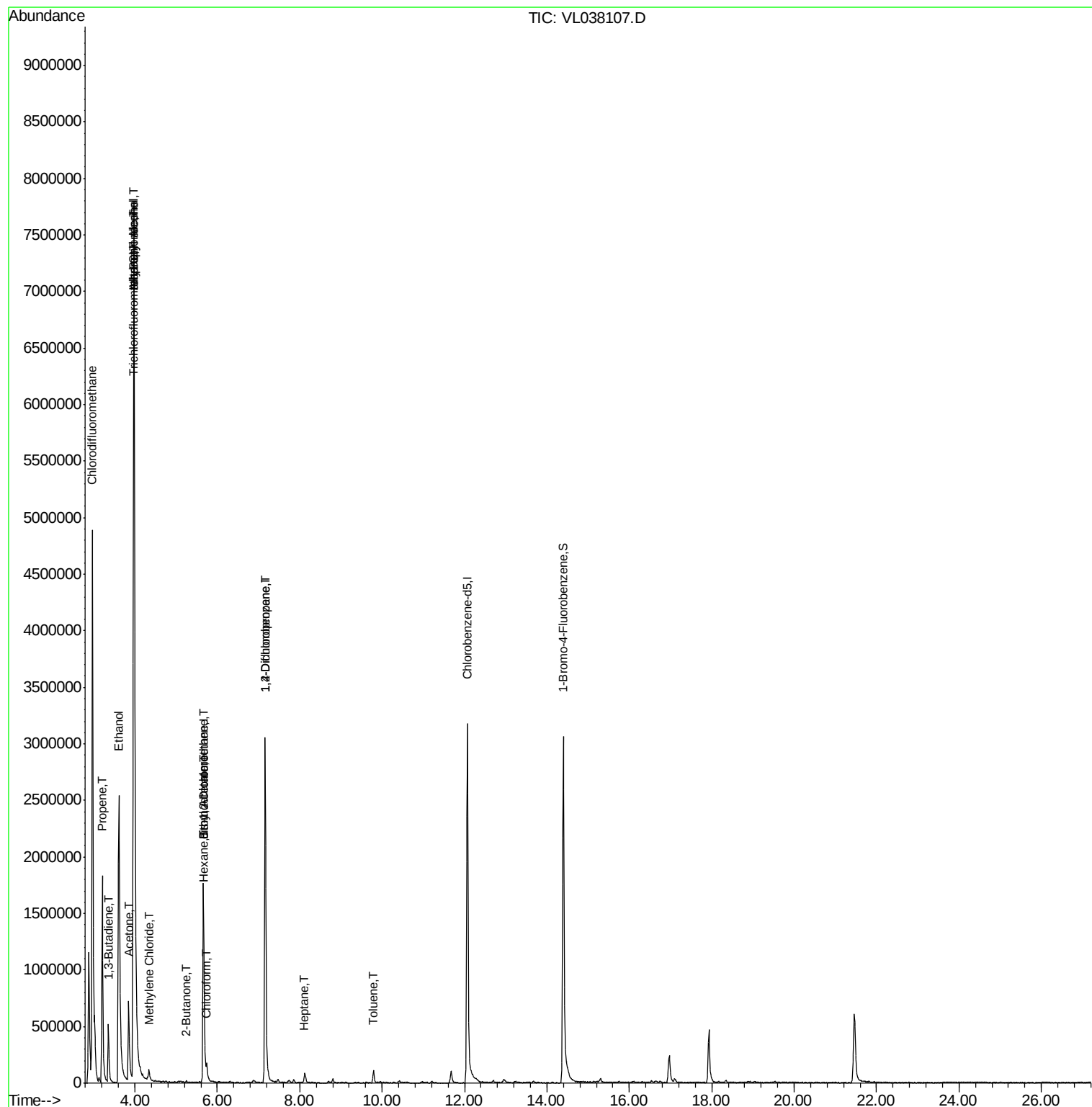
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	4183624	20.925	ppbv #	60
9) Propene	3.21	41	696294	9.456	ppbv	98
10) Heptane	8.10	43	6907	0.038	ppbv #	27
11) Trichlorofluoromethane	3.95	101	44025	0.294	ppbv	97
13) Ethanol	3.61	45	4245324	596.609	ppbv	89
15) Acetone	3.85	43	911299	11.040	ppbv	98
16) 1,3-Butadiene	3.36	39	66186	1.028	ppbv #	11
17) tert-Butyl alcohol	3.98	59	564662	5.639	ppbv	95
19) Isopropyl Alcohol	3.97	45	13407614	224.801	ppbv #	98
20) Methylene Chloride	4.34	84	33329	0.721	ppbv	95
21) Allyl Chloride	3.97	41	1341598	17.558	ppbv #	75
25) Ethyl Acetate	5.67	43	317771	1.158	ppbv #	91
26) Hexane	5.68	57	21331	0.161	ppbv #	1
29) Chloroform	5.74	83	87886	0.451	ppbv	90
31) cis-1,2-Dichloroethene	5.66	61	36386	0.289	ppbv #	26
34) 2-Butanone	5.24	43	13192	0.121	ppbv	99
39) 1,2-Dichloropropane	7.16	63	676514	6.536	ppbv #	27
53) Toluene	9.79	91	80727	0.260	ppbv	95

(#) = 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: IA-JEWELRY-DESIGNDL

Acq: 23 Nov 2021 19:57

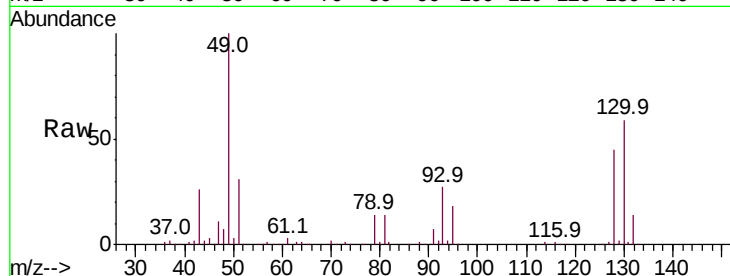
Tot Ion: 49 Resp: 952060

Ion Ratio Lower Upper

49 100

128 48.4 26.5 79.5

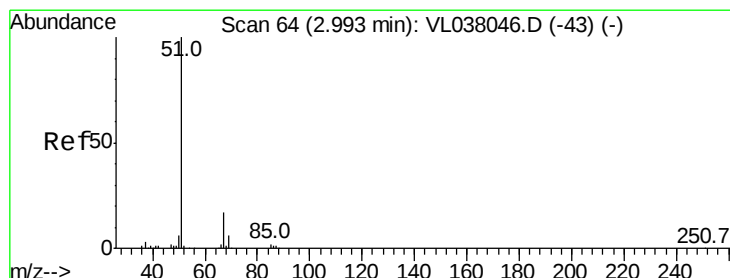
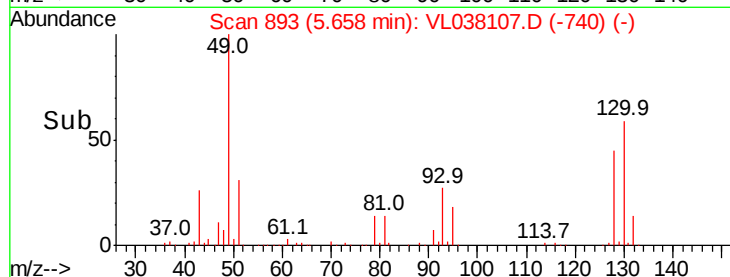
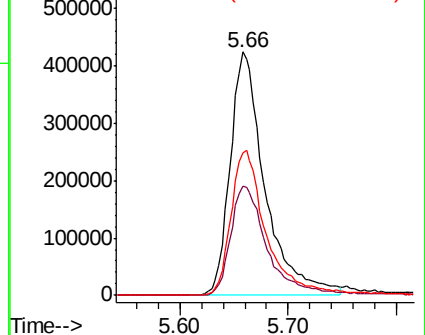
130 61.4 32.5 97.4



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



#3

Chlorodifluoromethane

Concen: 20.925 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL038107.D

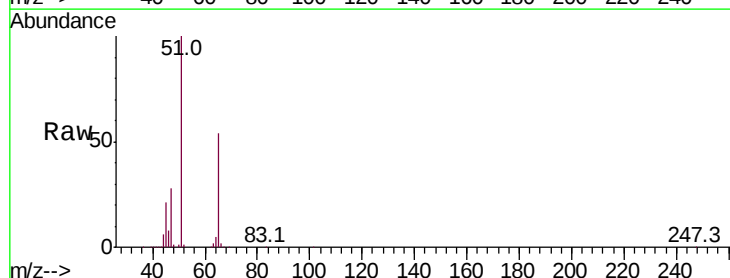
Acq: 23 Nov 2021 19:57

Tgt Ion: 51 Resp: 4183624

Ion Ratio Lower Upper

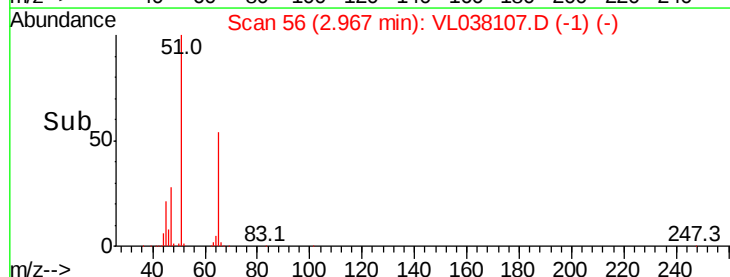
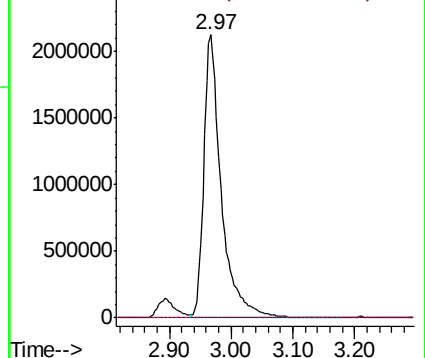
51 100

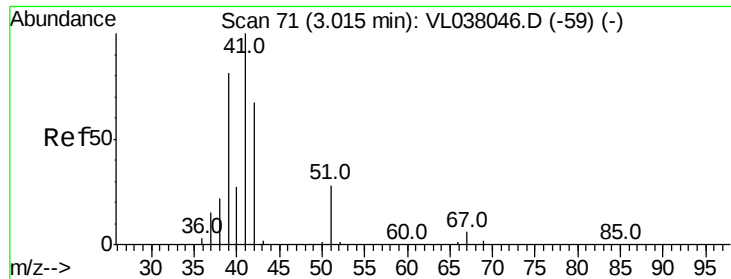
67 0.1 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 9.456 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

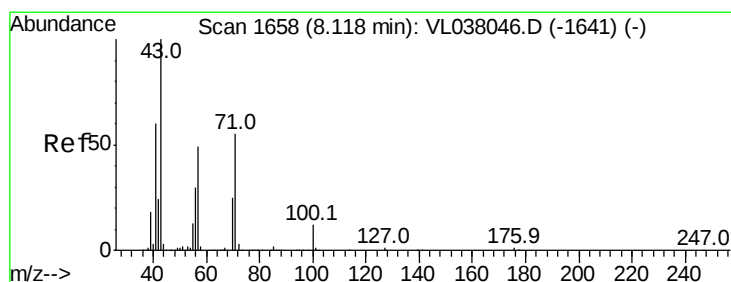
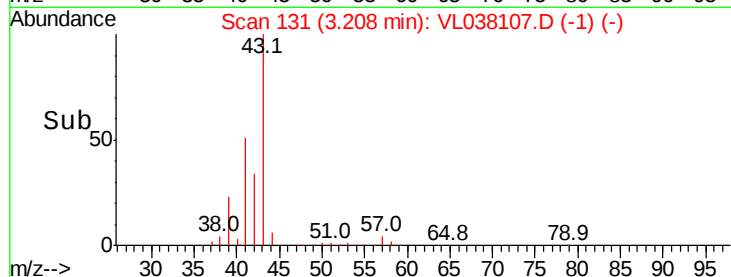
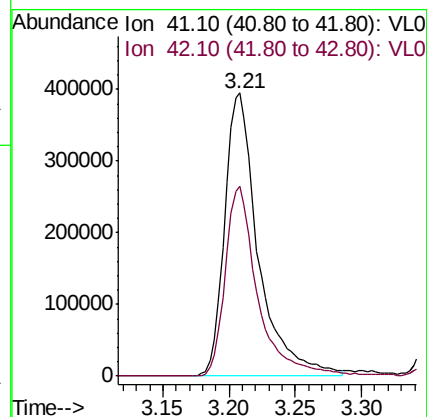
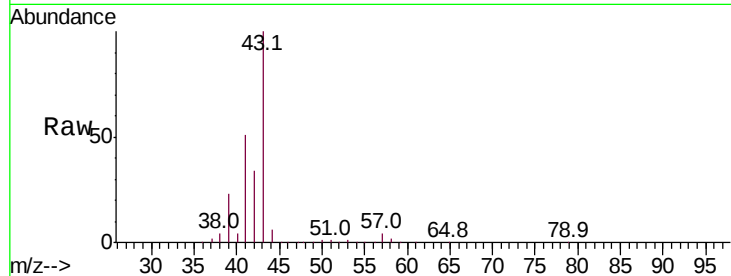
Acq: 23 Nov 2021 19:57

Tot Ion: 41 Resp: 696294

Ion Ratio Lower Upper

41 100

42 65.6 53.8 80.8



#10

Heptane

Concen: 0.038 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL038107.D

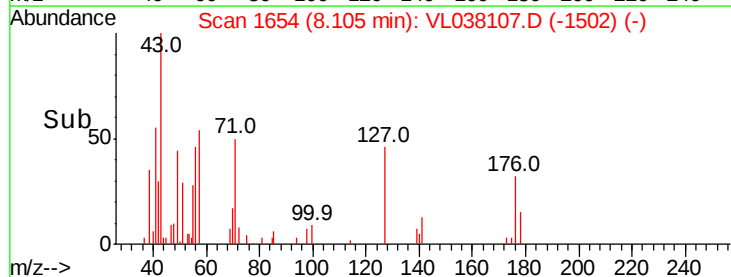
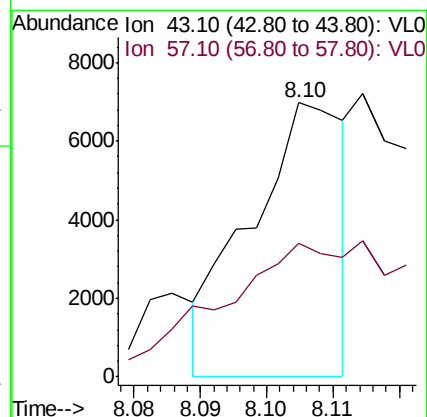
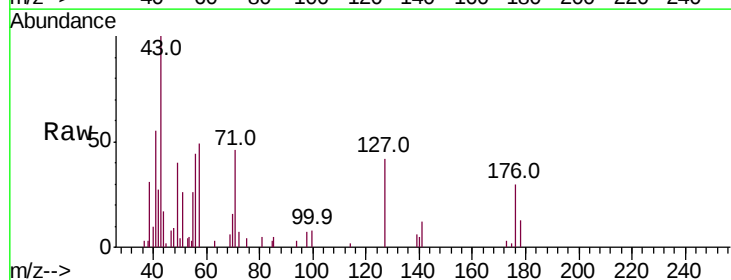
Acq: 23 Nov 2021 19:57

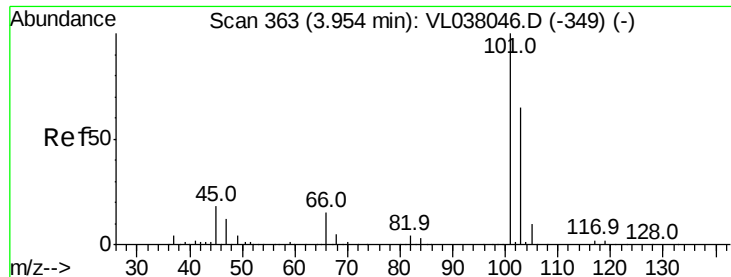
Tgt Ion: 43 Resp: 6907

Ion Ratio Lower Upper

43 100

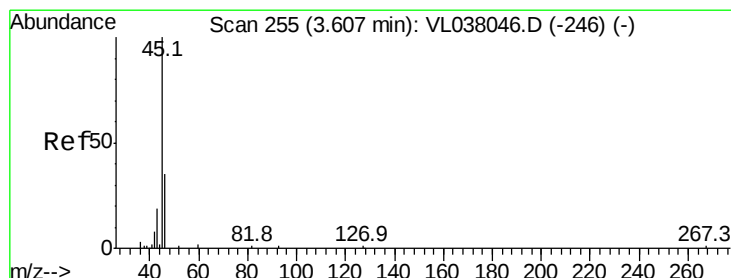
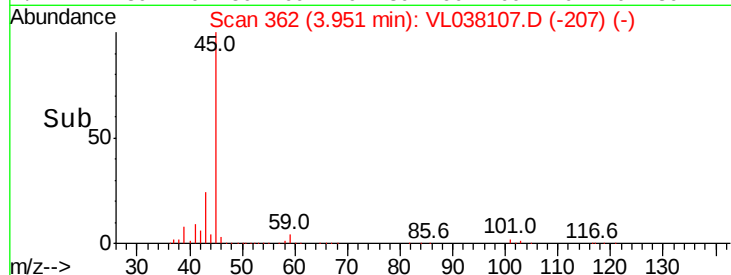
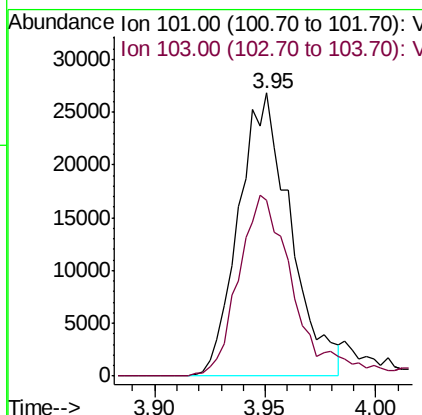
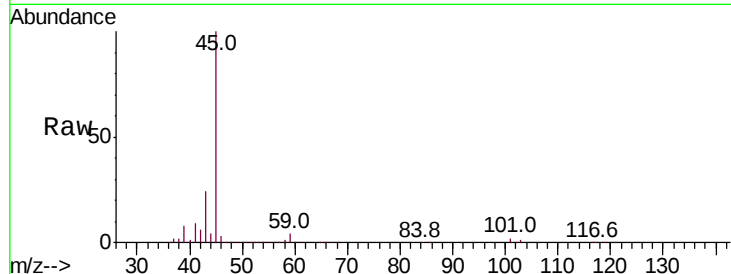
57 0.0 40.4 60.6#





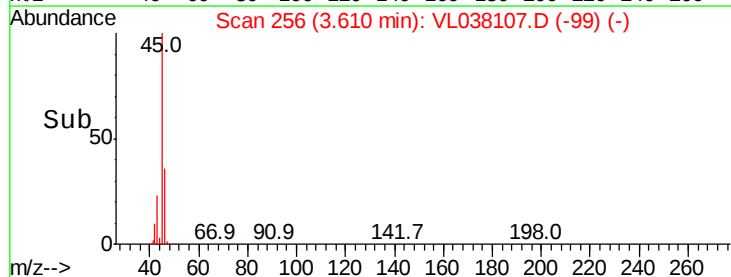
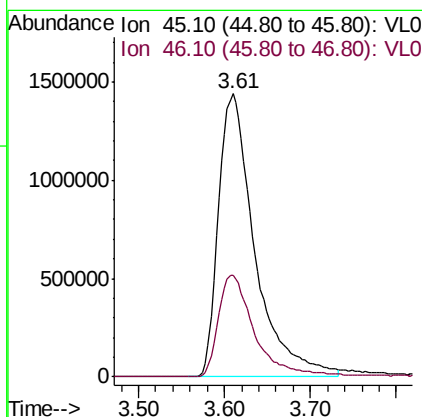
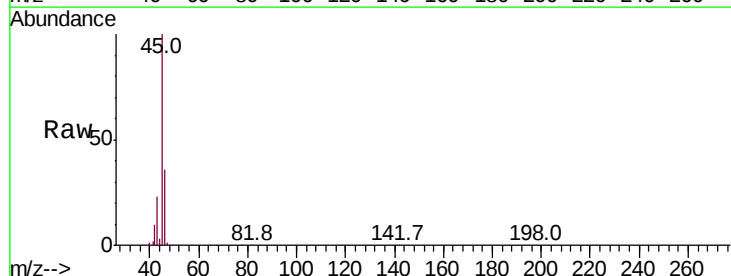
#11
 Trichlorofluoromethane
 Concen: 0.294 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 19:57

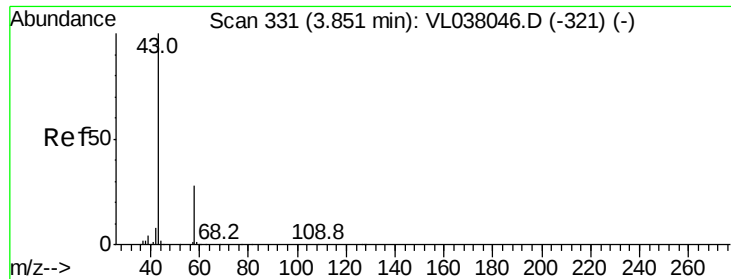
Tot Ion:101 Resp: 44025
 Ion Ratio Lower Upper
 101 100
 103 62.1 51.8 77.6



#13
 Ethanol
 Concen: 596.609 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL038107.D
 Acq: 23 Nov 2021 19:57

Tgt Ion: 45 Resp: 4245324
 Ion Ratio Lower Upper
 45 100
 46 36.9 17.6 70.2





#15

Acetone

Concen: 11.040 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

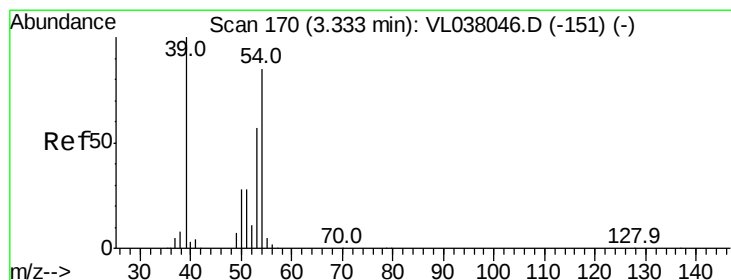
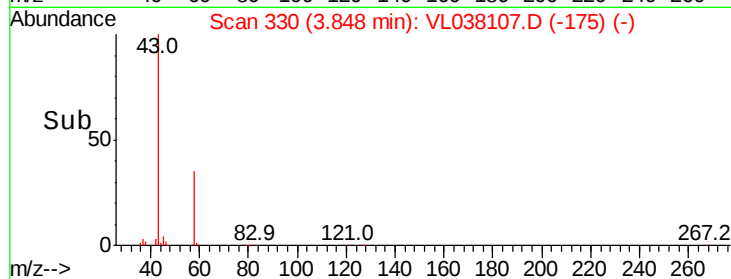
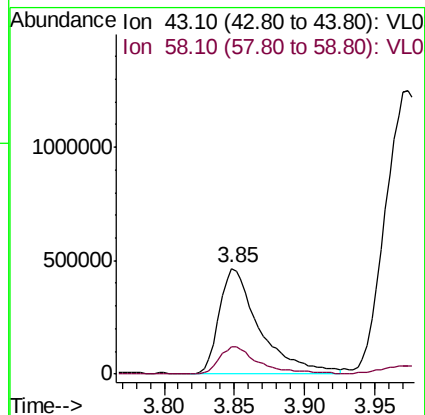
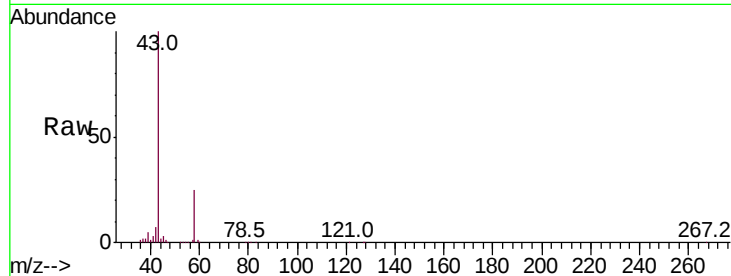
Acq: 23 Nov 2021 19:57

Tot Ion: 43 Resp: 911299

Ion Ratio Lower Upper

43 100

58 26.7 22.4 33.6



#16

1,3-Butadiene

Concen: 1.028 ppbv

RT: 3.36 min Scan# 177

Delta R.T. 0.02 min

Lab File: VL038107.D

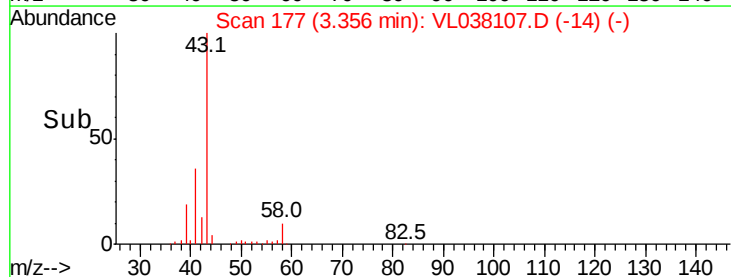
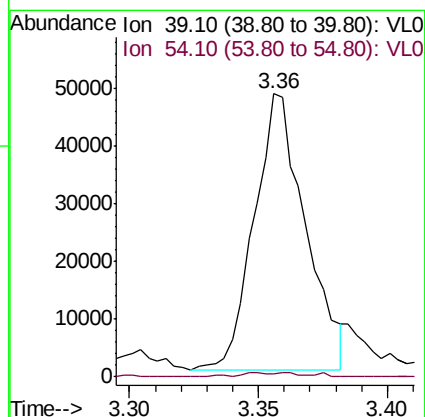
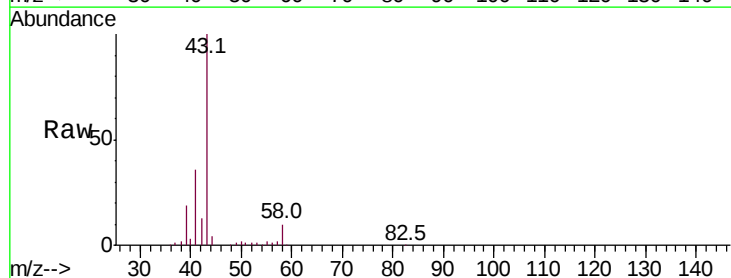
Acq: 23 Nov 2021 19:57

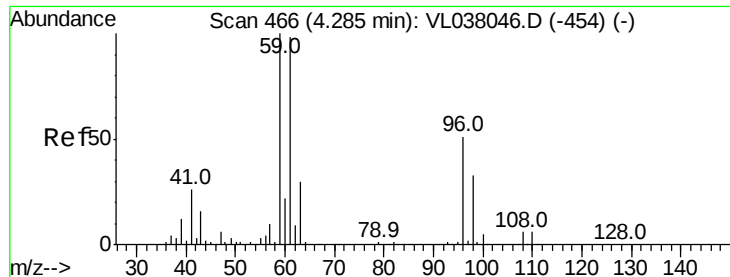
Tgt Ion: 39 Resp: 66186

Ion Ratio Lower Upper

39 100

54 2.1 64.4 96.6#





#17

tert-Butyl alcohol

Concen: 5.639 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

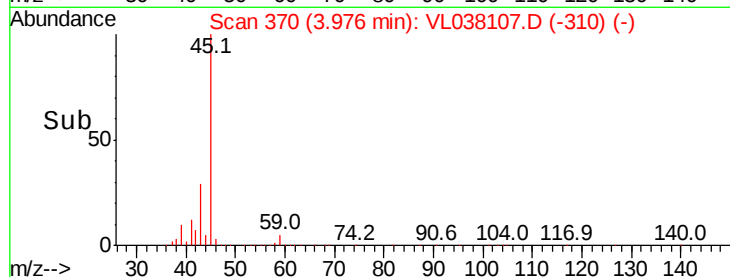
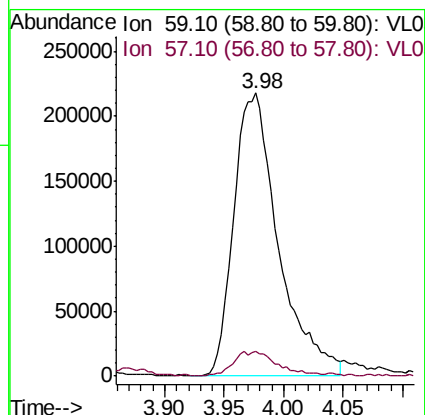
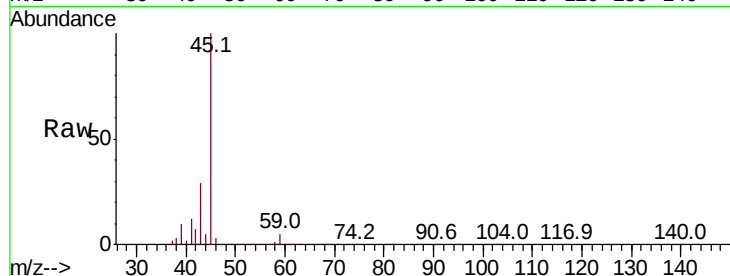
Acq: 23 Nov 2021 19:57

Tot Ion: 59 Resp: 564662

Ion Ratio Lower Upper

59 100

57 9.1 8.6 13.0



#19

Isopropyl Alcohol

Concen: 224.801 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL038107.D

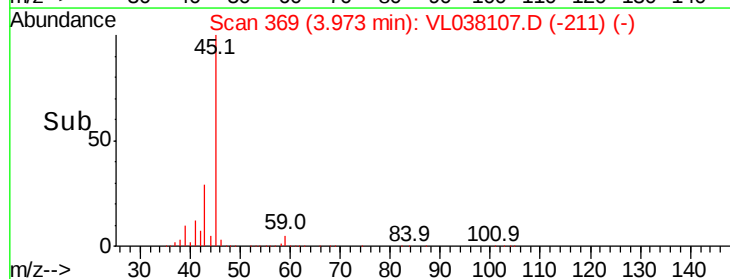
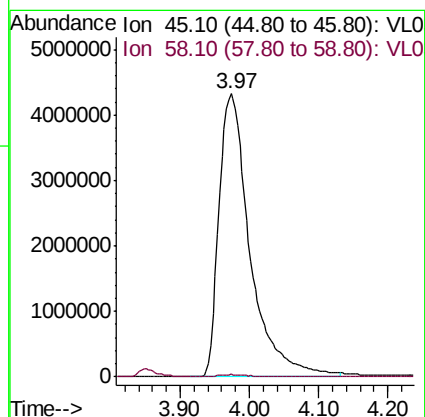
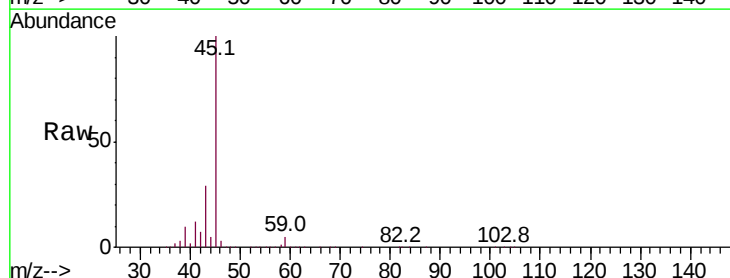
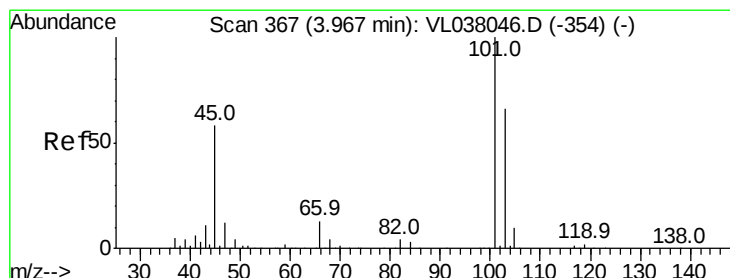
Acq: 23 Nov 2021 19:57

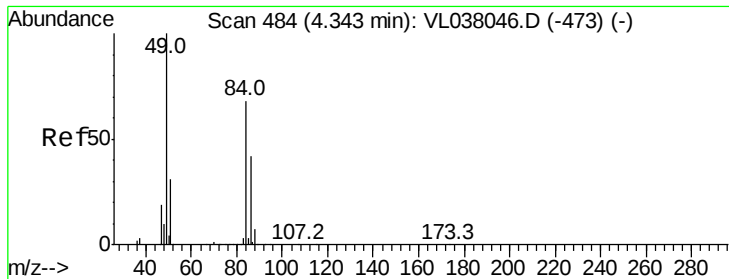
Tgt Ion: 45 Resp: 13407614

Ion Ratio Lower Upper

45 100

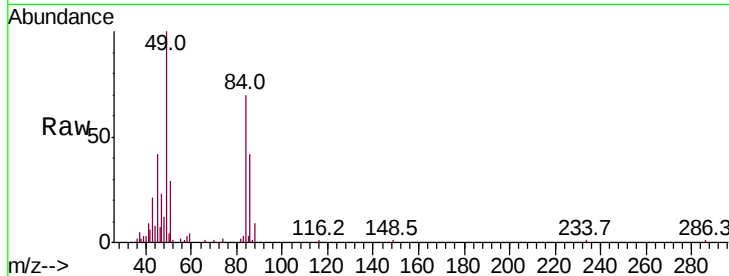
58 0.9 1.4 2.0#



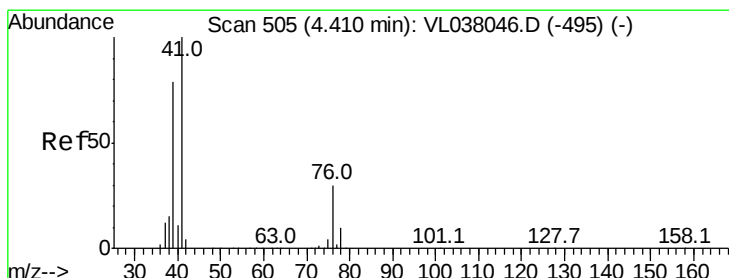
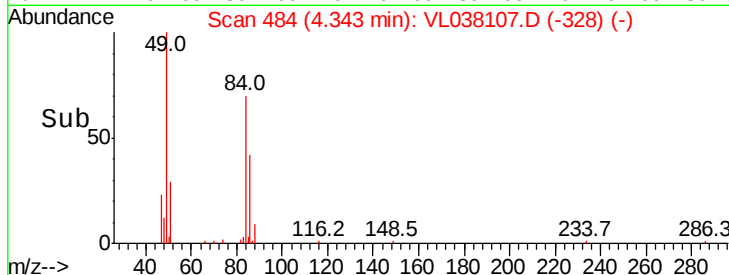
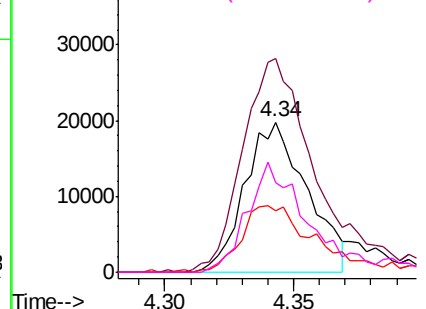


#20
Methvlene Chloride
Concen: 0.721 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 19:57

Tot Ion: 84 Resp: 33329
Ion Ratio Lower Upper
84 100
49 140.6 118.2 177.2
51 41.0 36.8 55.2
86 59.8 49.0 73.6

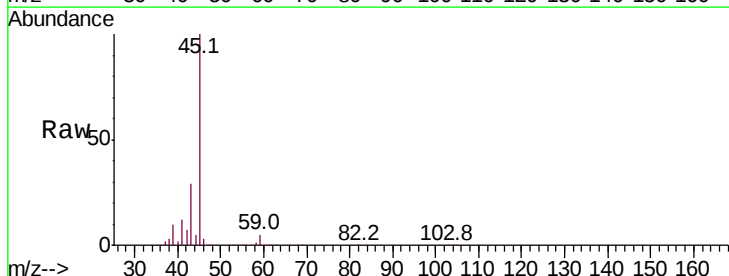


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

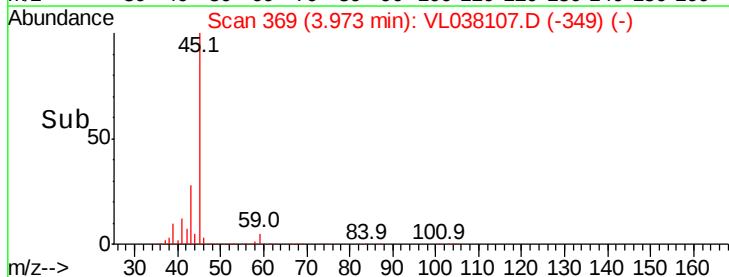
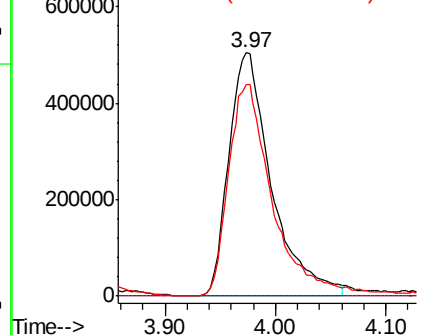


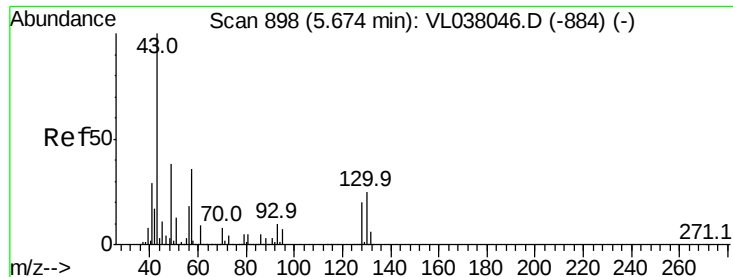
#21
Allyl Chloride
Concen: 17.558 ppbv
RT: 3.97 min Scan# 369
Delta R.T. -0.44 min
Lab File: VL038107.D
Acq: 23 Nov 2021 19:57

Tgt Ion: 41 Resp: 1341598
Ion Ratio Lower Upper
41 100
76 0.0 24.6 36.8#
39 90.5 63.4 95.0



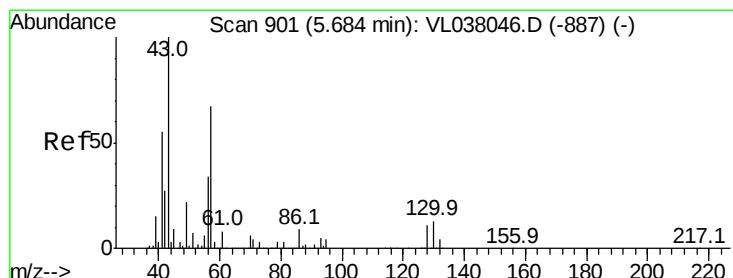
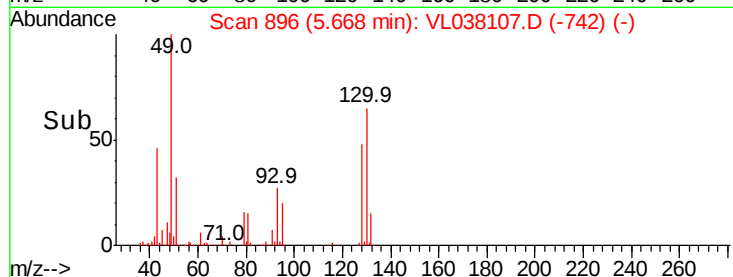
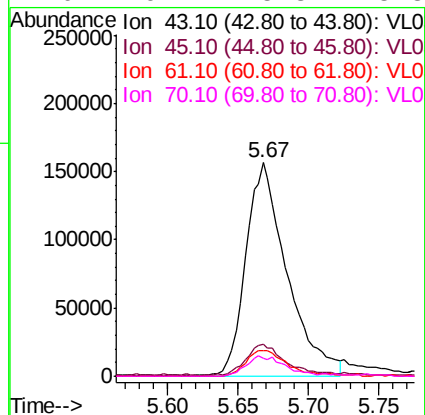
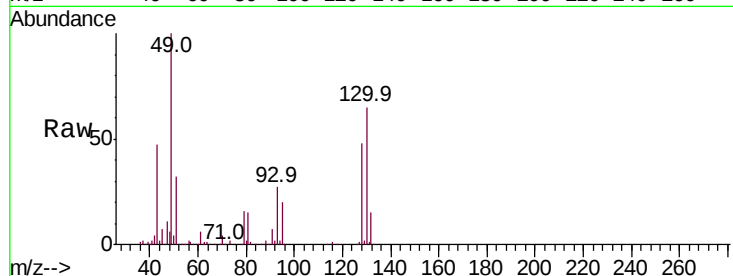
Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





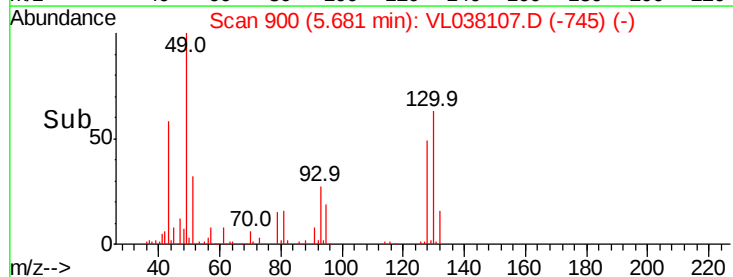
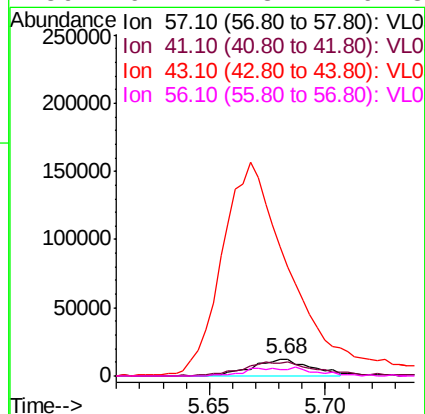
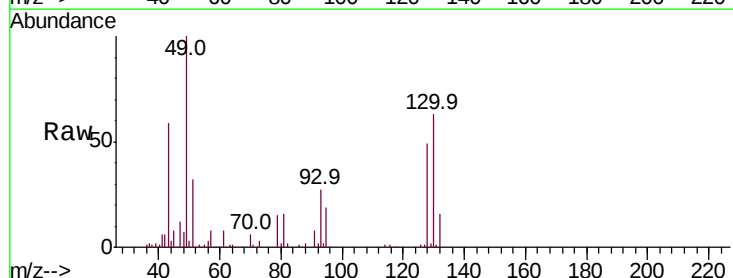
#25
Ethyl Acetate
Concen: 1.158 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 19:57

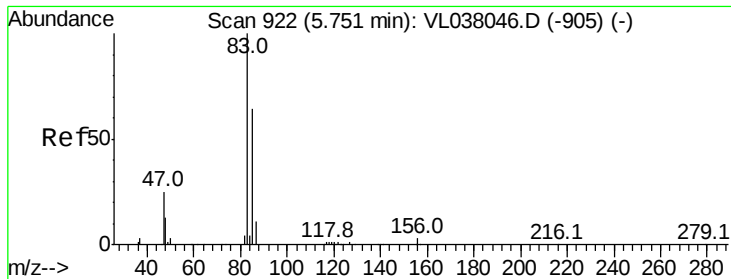
Tot Ion:	43	Resp:	317771
Ion	Ratio	Lower	Upper
43	100		
45	14.8	7.9	11.9#
61	12.7	7.8	11.6#
70	9.4	5.8	8.8#



#26
Hexane
Concen: 0.161 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL038107.D
Acq: 23 Nov 2021 19:57

Tgt Ion:	57	Resp:	21331
Ion	Ratio	Lower	Upper
57	100		
41	114.3	71.4	107.2#
43	1608.2	174.6	261.8#
56	61.4	43.2	64.8





#29

Chloroform

Concen: 0.451 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

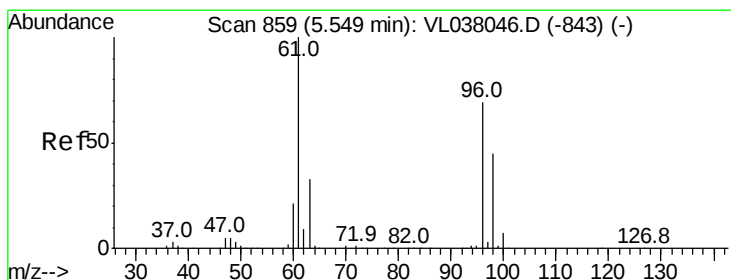
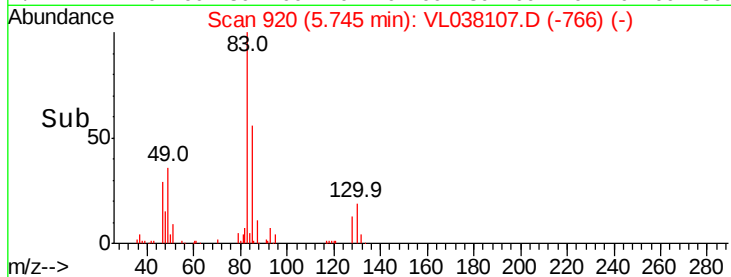
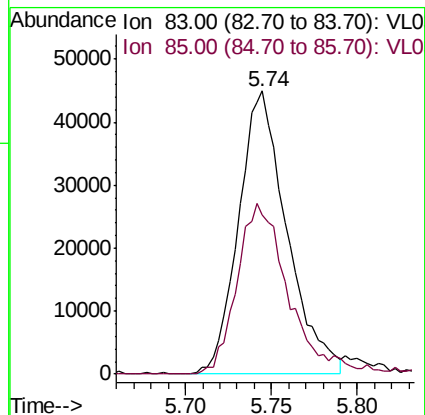
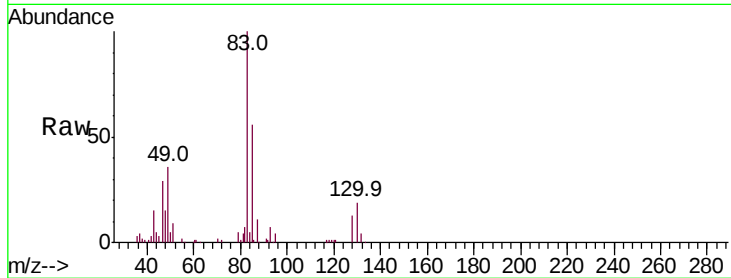
Acq: 23 Nov 2021 19:57

Tot Ion: 83 Resp: 87886

Ion Ratio Lower Upper

83 100

85 56.2 51.0 76.6



#31

cis-1,2-Dichloroethene

Concen: 0.289 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.12 min

Lab File: VL038107.D

Acq: 23 Nov 2021 19:57

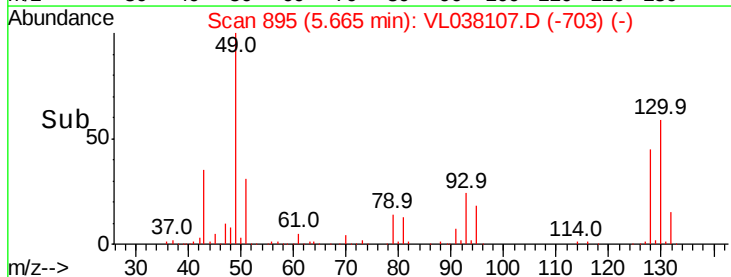
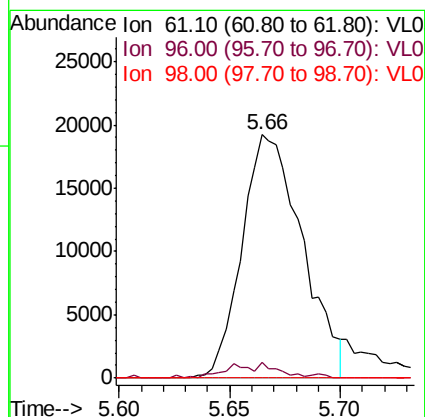
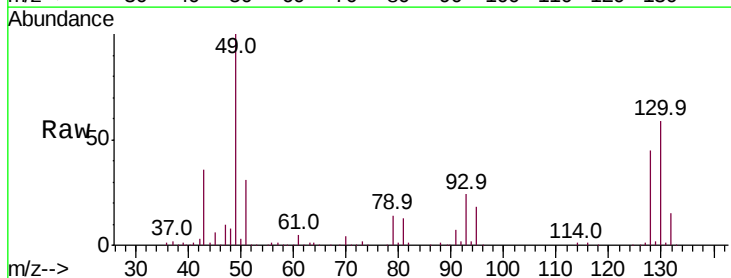
Tgt Ion: 61 Resp: 36386

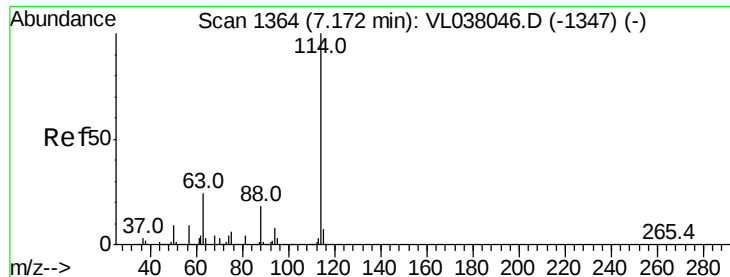
Ion Ratio Lower Upper

61 100

96 6.5 55.4 83.2#

98 0.0 35.7 53.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 19:57

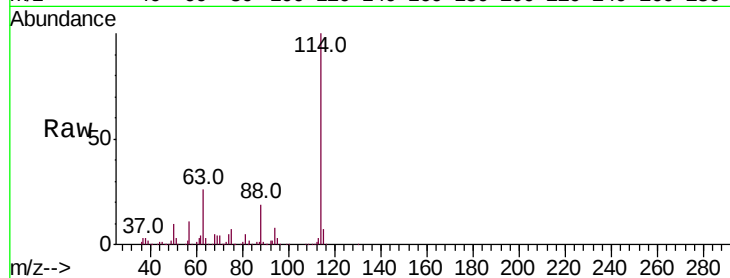
Tot Ion:114 Resp: 2704796

Ion Ratio Lower Upper

114 100

63 25.6 19.7 29.5

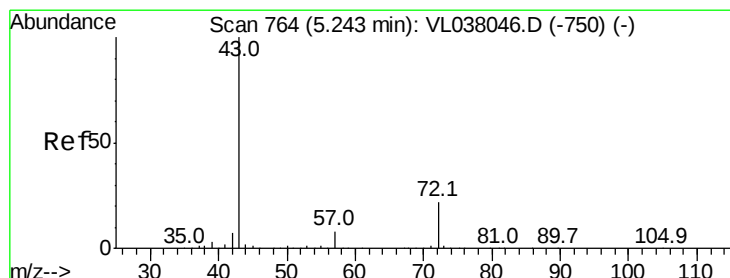
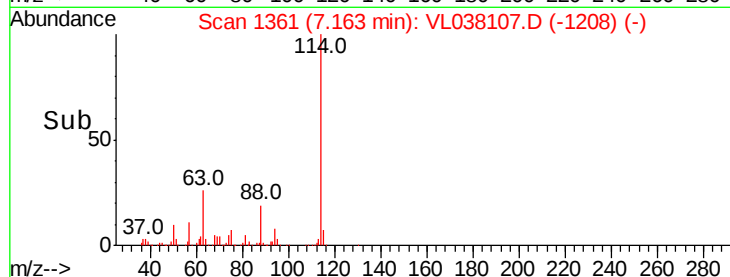
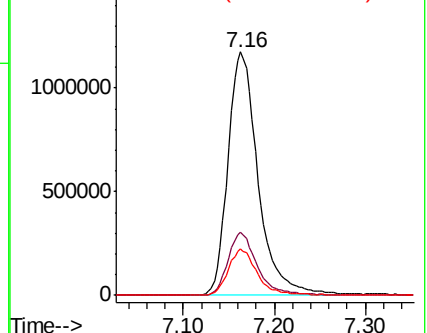
88 18.4 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.121 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.00 min

Lab File: VL038107.D

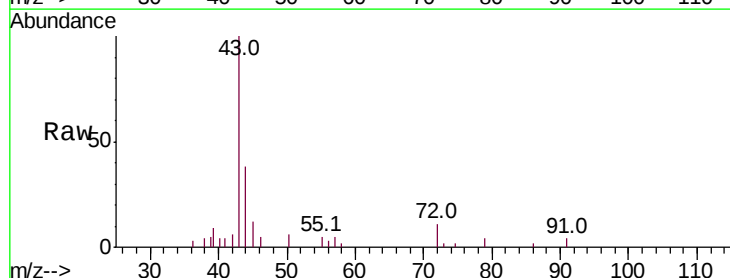
Acq: 23 Nov 2021 19:57

Tgt Ion: 43 Resp: 13192

Ion Ratio Lower Upper

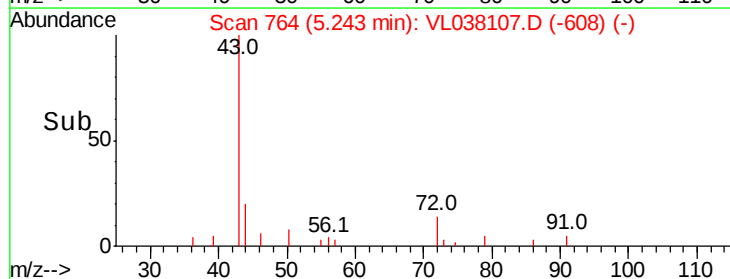
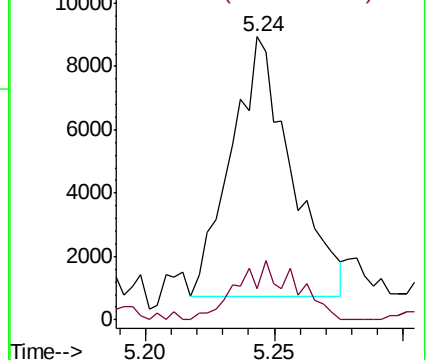
43 100

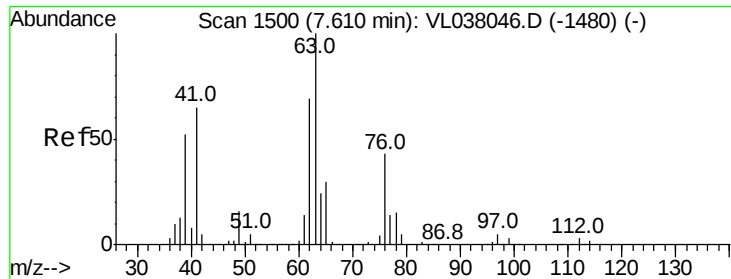
72 22.8 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

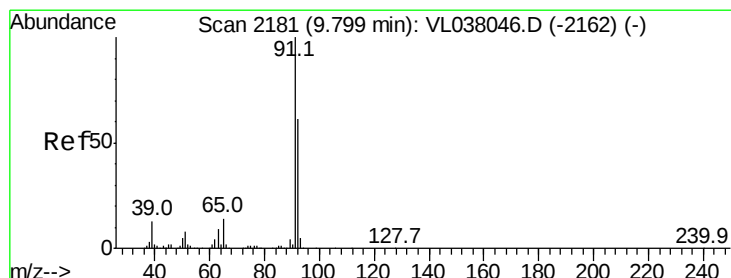
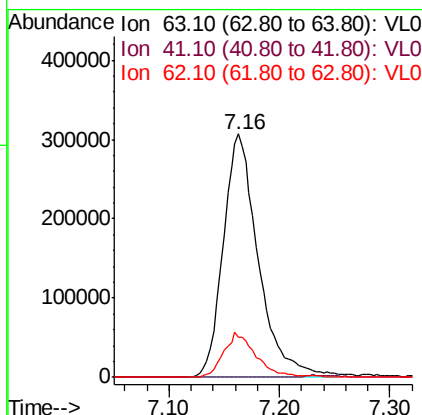
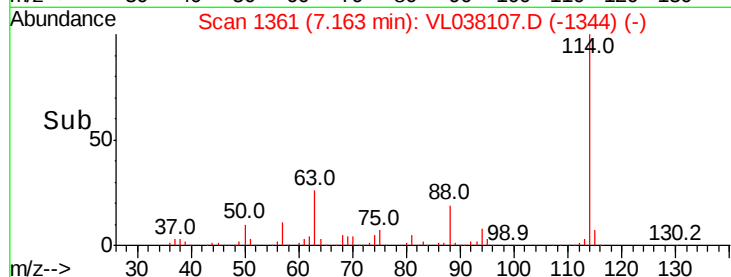
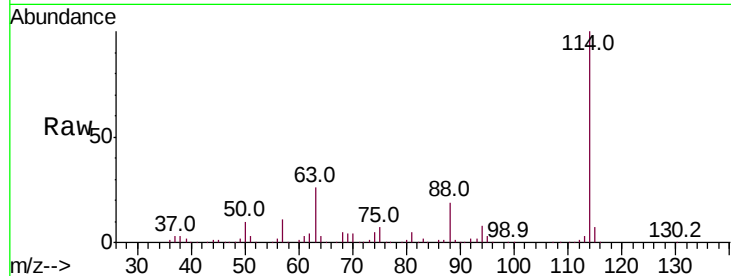
Ion 72.10 (71.80 to 72.80): VL0





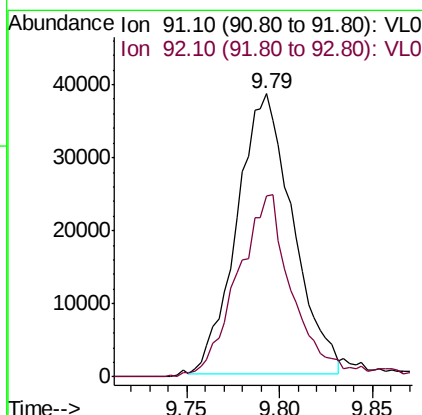
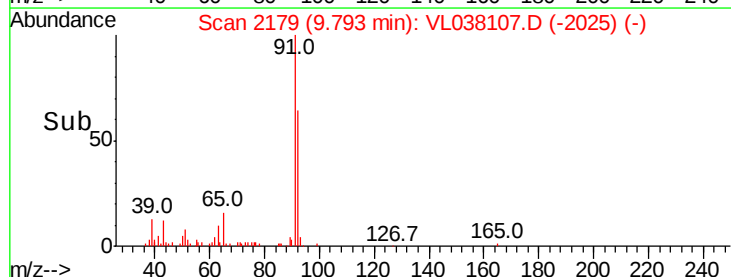
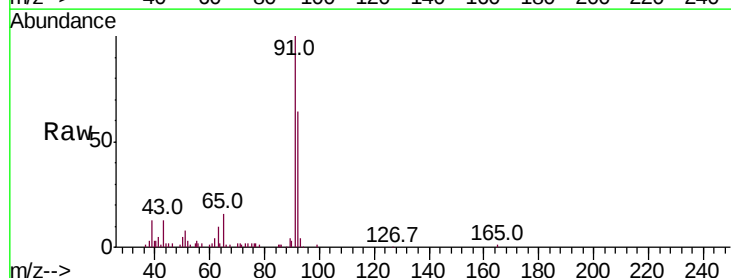
#39
 1,2-Dichloropropane
 Concen: 6.536 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 19:57

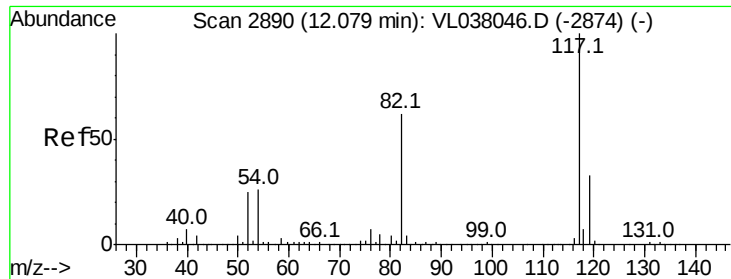
Tot Ion: 63 Resp: 676514
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.3 78.5#
 62 16.4 55.1 82.7#



#53
 Toluene
 Concen: 0.260 ppbv
 RT: 9.79 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL038107.D
 Acq: 23 Nov 2021 19:57

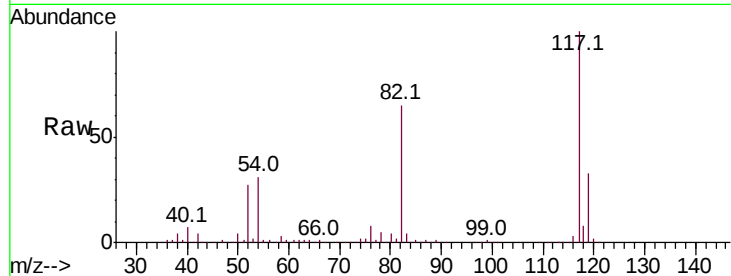
Tgt Ion: 91 Resp: 80727
 Ion Ratio Lower Upper
 91 100
 92 65.9 49.7 74.5



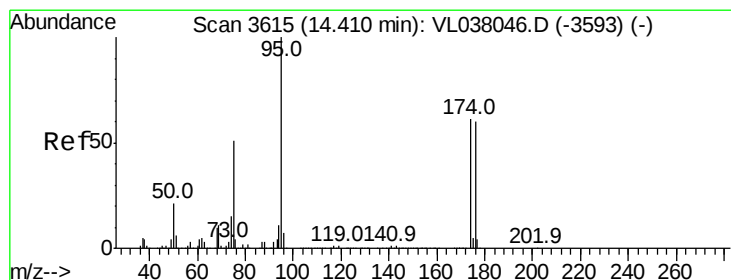
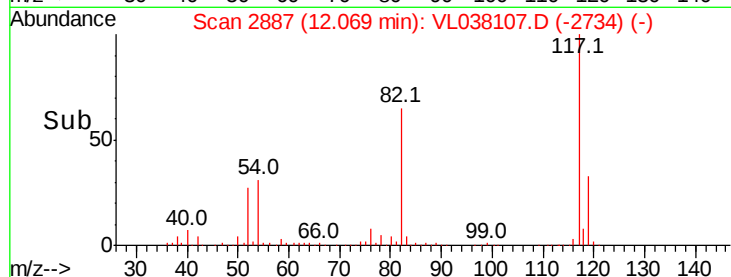
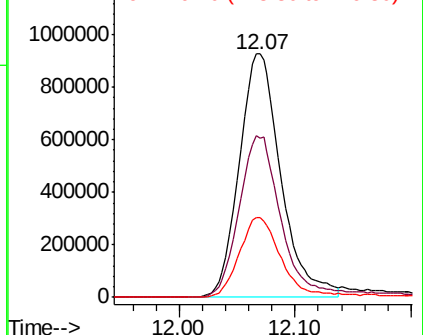


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Client Sample ID:
 Lab File: IA-JEWELRY-DESIGN.D
 Acq: 23 Nov 2021 19:57

Tot Ion: 117 Resp: 2316984
 Ion Ratio Lower Upper
 117 100
 82 71.6 52.8 79.2
 119 34.3 26.8 40.2

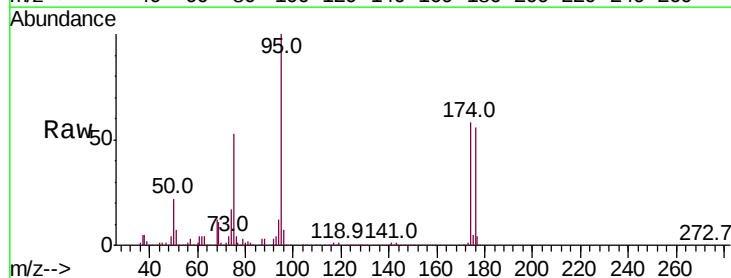


Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.913 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T.: -0.01 min
 Lab File: VL038107.D
 Acq: 23 Nov 2021 19:57

Tgt Ion: 95 Resp: 1823887
 Ion Ratio Lower Upper
 95 100
 174 62.7 53.1 79.7
 175 4.6 4.0 6.0



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

