

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037512.D
 Acq On : 19 Aug 2021 23:48
 Operator : SY/AP
 Sample : M3480-07DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 01:36:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1314997	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3993629	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3334918	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2319311	9.79	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

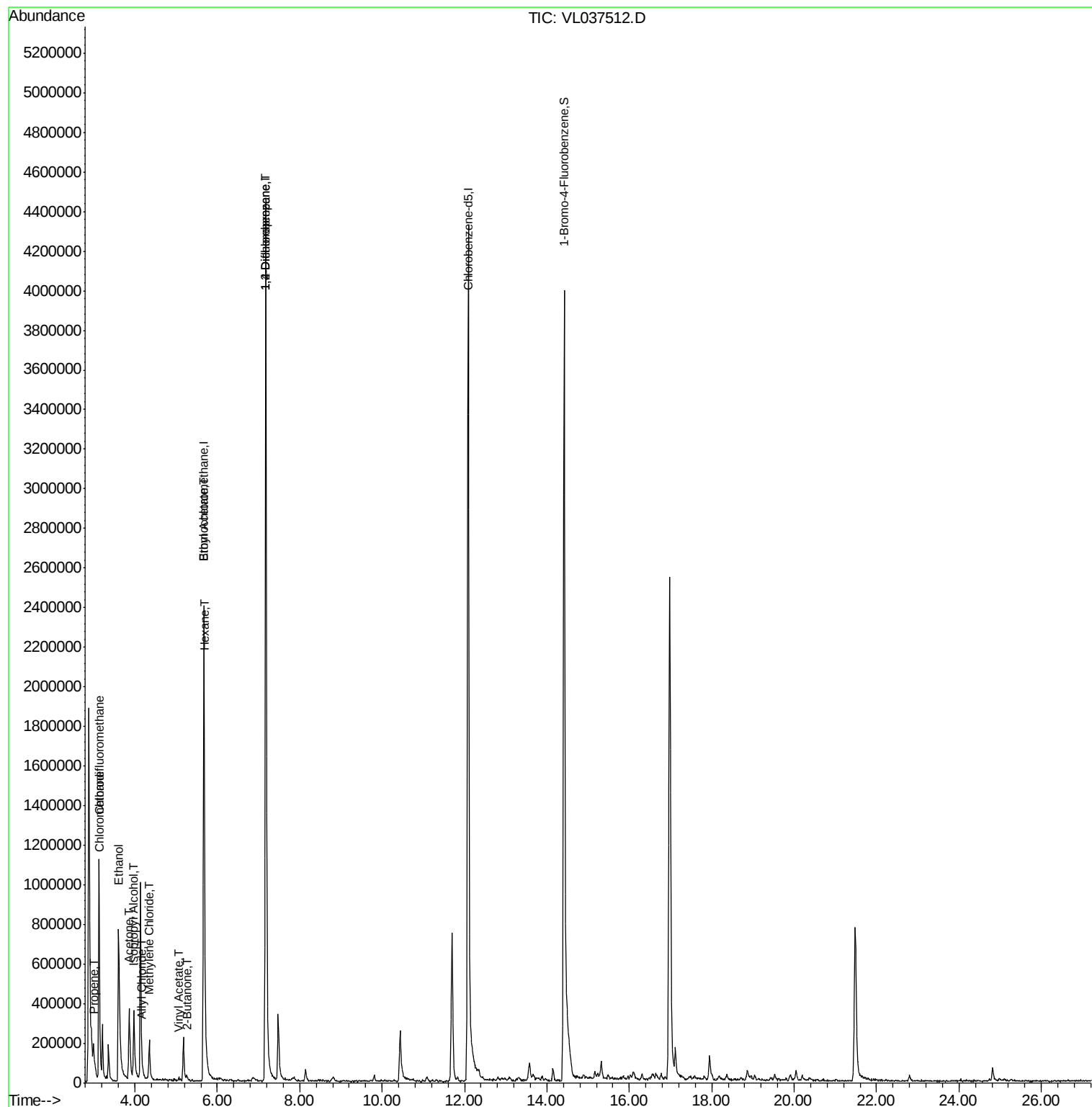
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.13	51	16371	0.065	ppbv 96
4) Chloromethane	3.14	50	6361	0.071	ppbv # 50
9) Propene	3.01	41	7529	0.084	ppbv # 16
13) Ethanol	3.60	45	1148282	130.977	ppbv 91
15) Acetone	3.86	43	456421	3.410	ppbv 92
19) Isopropyl Alcohol	3.97	45	451566	5.890	ppbv # 95
20) Methylene Chloride	4.35	84	73248	1.093	ppbv 90
21) Allyl Chloride	4.19	41	7408	0.068	ppbv # 24
23) Vinyl Acetate	5.07	43	12729	0.065	ppbv # 90
25) Ethyl Acetate	5.68	43	46383	0.137	ppbv # 67
26) Hexane	5.69	57	31120	0.187	ppbv # 21
34) 2-Butanone	5.26	43	31885	0.196	ppbv 94
39) 1,2-Dichloropropane	7.18	63	923038	7.155	ppbv # 28

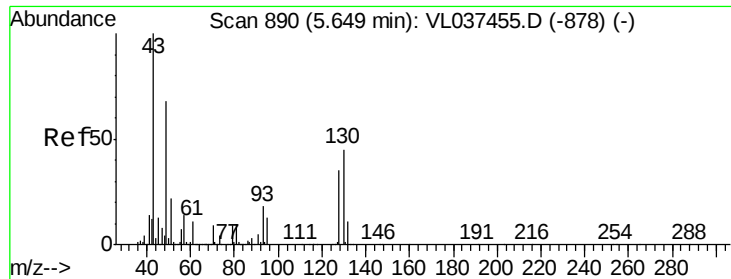
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

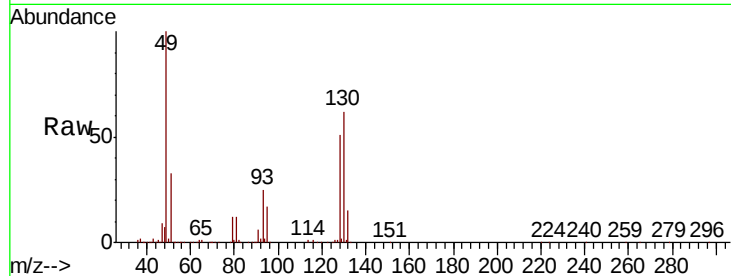
Tot Ion: 49 Resp: 1314997

Ion Ratio Lower Upper

49 100

128 56.5 27.5 82.4

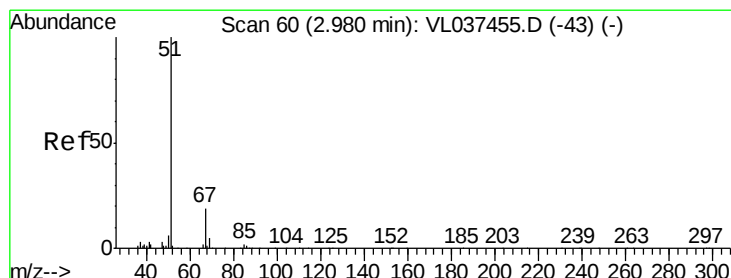
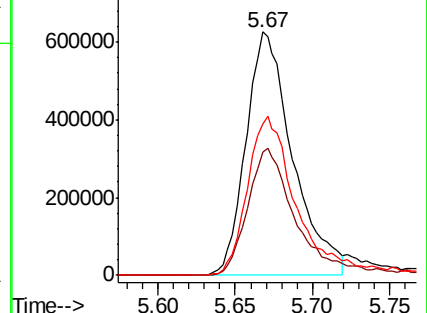
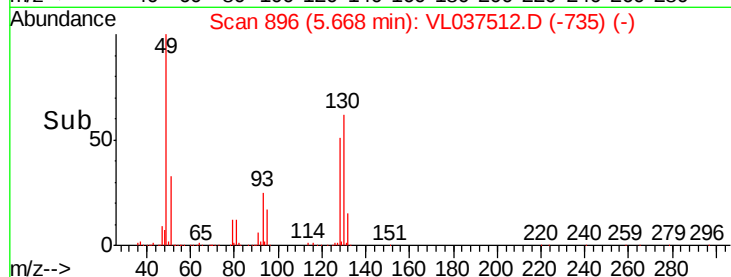
130 70.8 34.0 101.8



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: 0.065 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.15 min

Lab File: VL037512.D

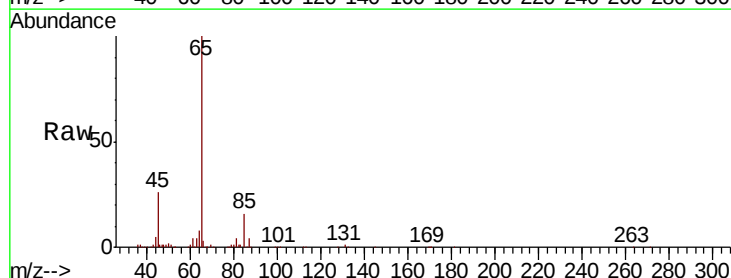
Acq: 19 Aug 2021 23:48

Tgt Ion: 51 Resp: 16371

Ion Ratio Lower Upper

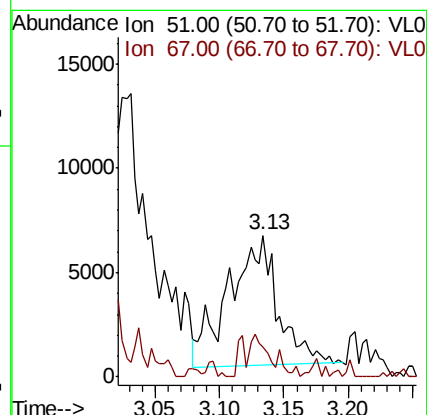
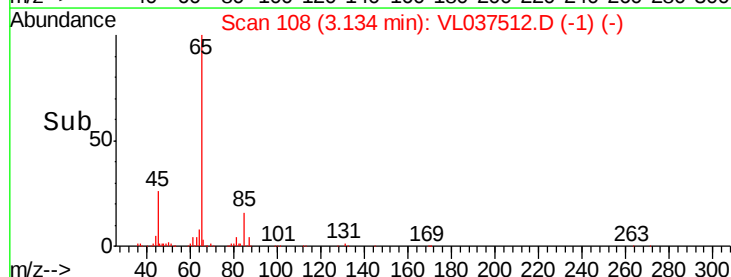
51 100

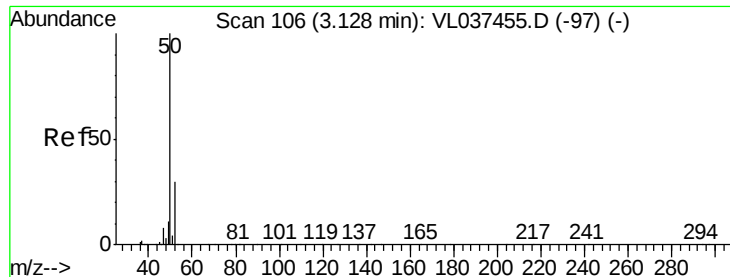
67 19.3 14.2 21.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.071 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.02 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Instrument :

MSVOA_L

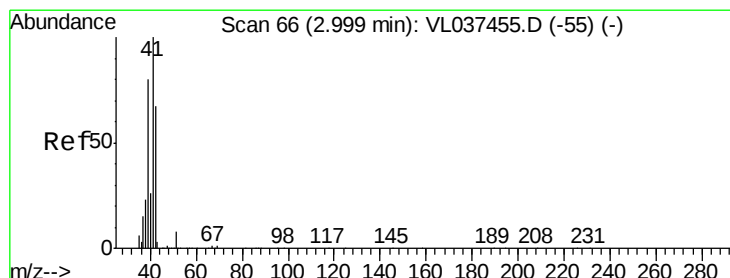
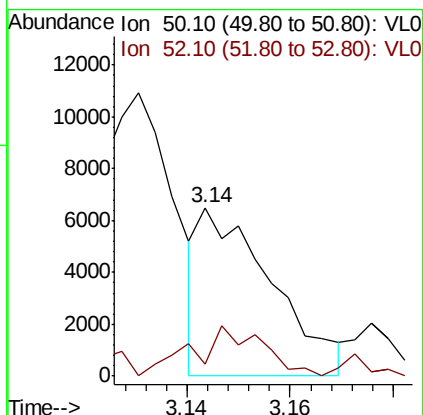
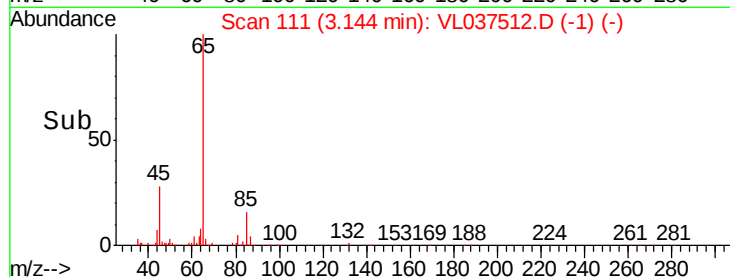
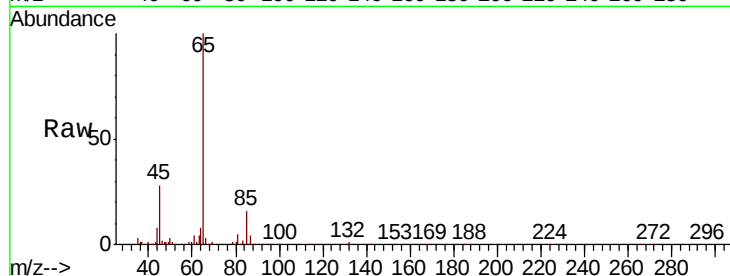
ClientSampleId :

Tot Ion: 50 Resp: 6361

Ion Ratio Lower Upper

50 100

52 3.1 24.0 36.0#



#9

Propene

Concen: 0.084 ppbv

RT: 3.01 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL037512.D

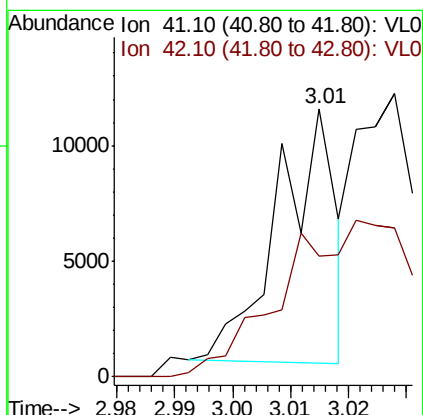
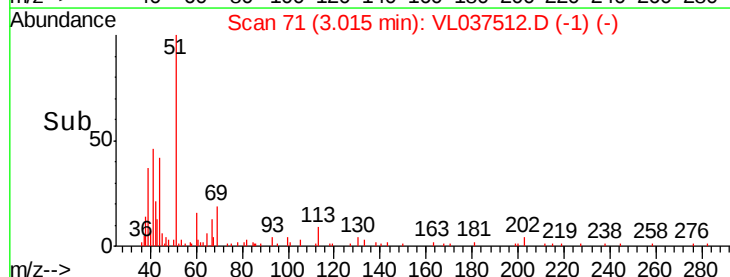
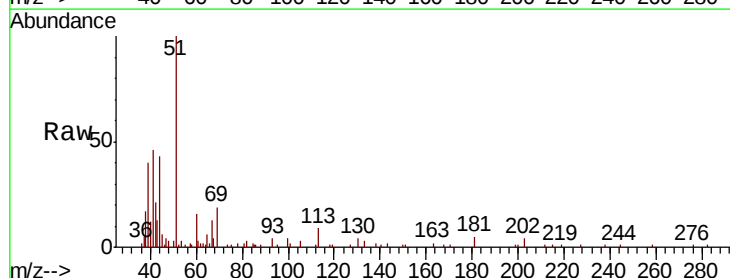
Acq: 19 Aug 2021 23:48

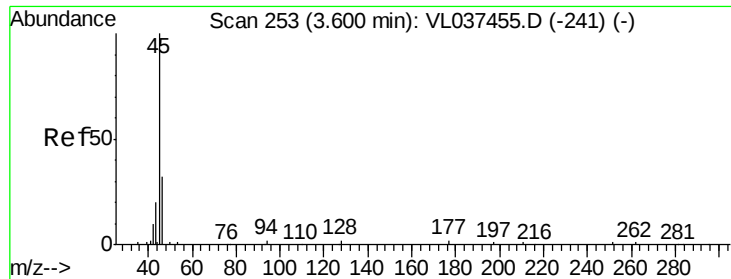
Tgt Ion: 41 Resp: 7529

Ion Ratio Lower Upper

41 100

42 0.0 53.7 80.5#

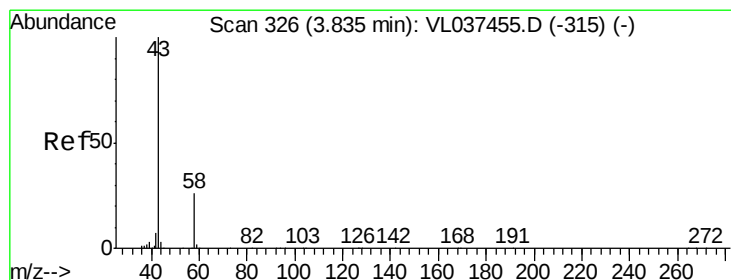
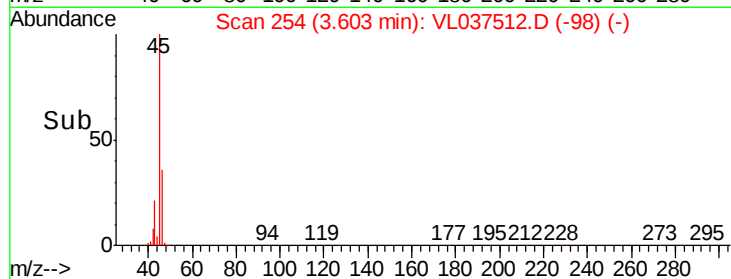
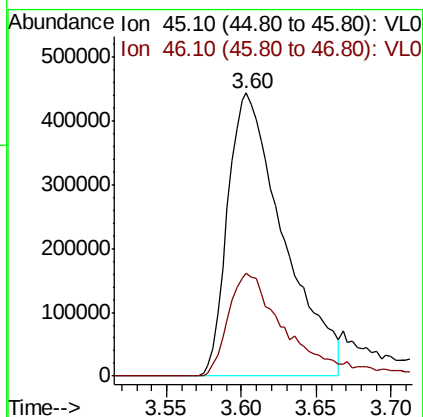
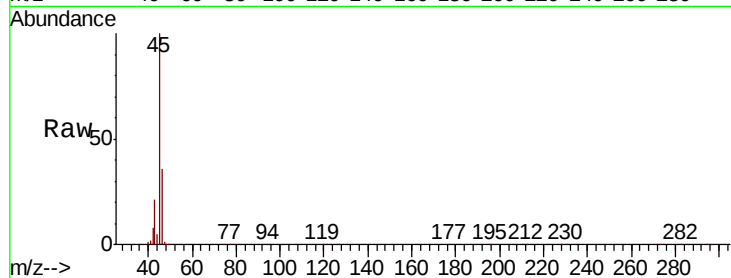




#13
Ethanol
Concen: 130.977 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL037512.D
Acq: 19 Aug 2021 23:48

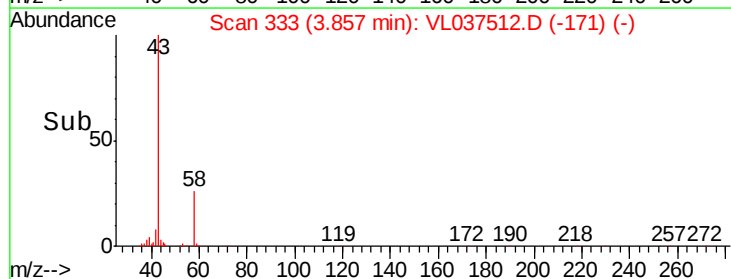
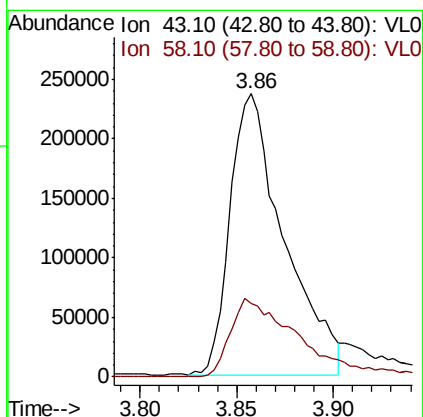
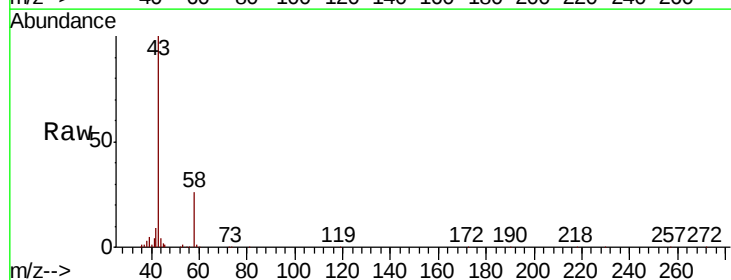
Instrument :
MSVOA_L
ClientSampleId :

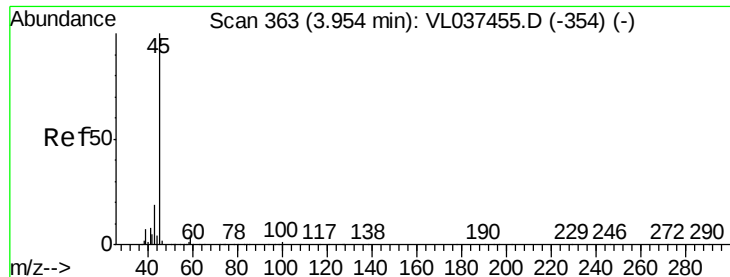
Tot Ion: 45 Resp: 1148282
Ion Ratio Lower Upper
45 100
46 40.8 14.1 56.5



#15
Acetone
Concen: 3.410 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL037512.D
Acq: 19 Aug 2021 23:48

Tgt Ion: 43 Resp: 456421
Ion Ratio Lower Upper
43 100
58 35.6 24.8 37.2





#19

Isopropyl Alcohol

Concen: 5.890 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Instrument :

MSVOA_L

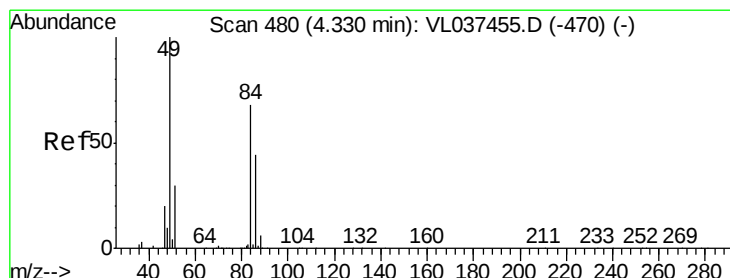
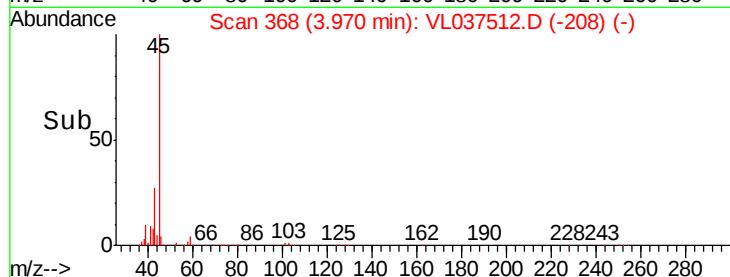
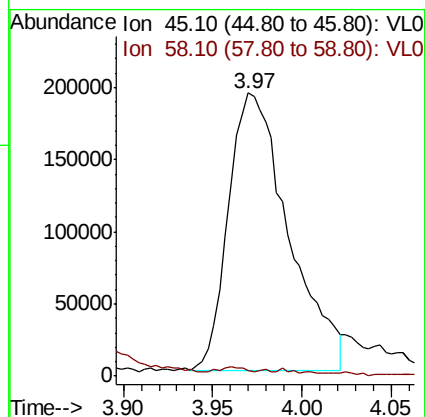
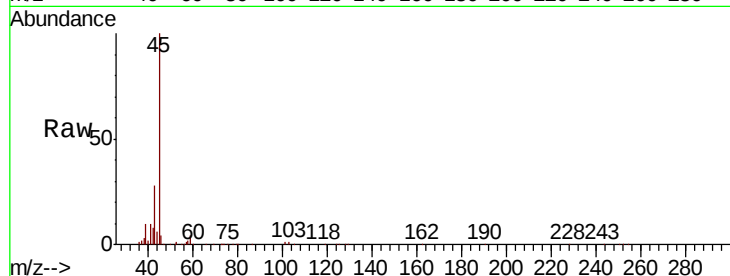
ClientSampleId :

Tot Ion: 45 Resp: 451566

Ion Ratio Lower Upper

45 100

58 3.5 1.4 2.2#



#20

Methylene Chloride

Concen: 1.093 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Tgt Ion: 84 Resp: 73248

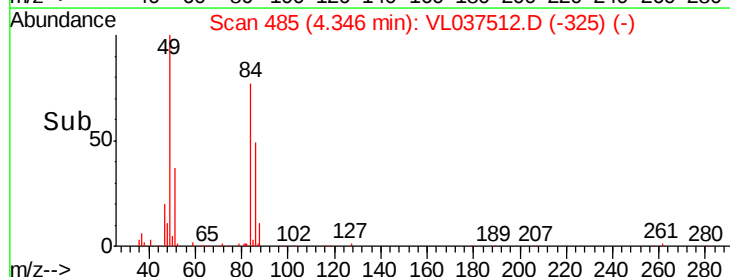
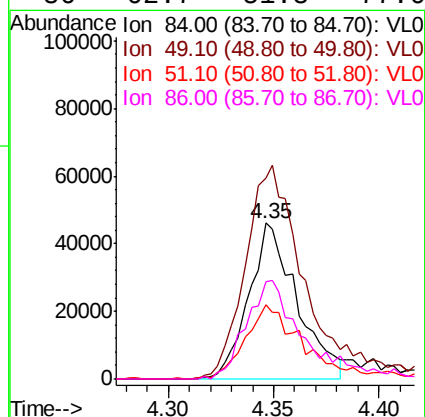
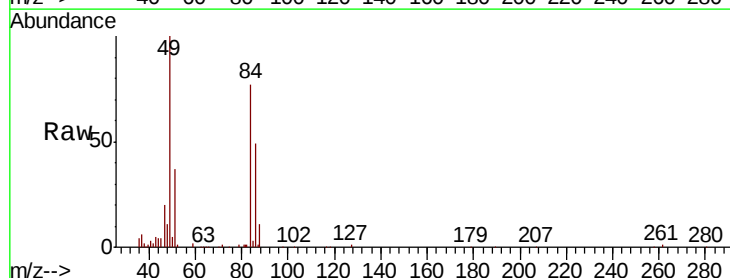
Ion Ratio Lower Upper

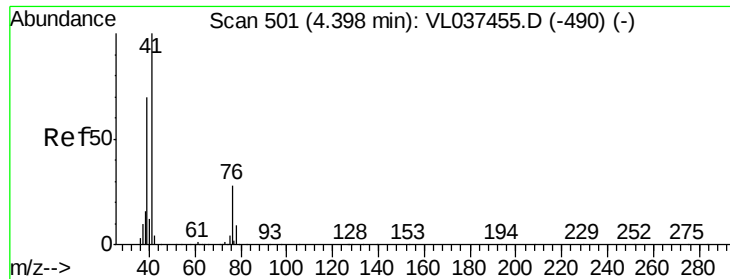
84 100

49 129.3 118.2 177.2

51 47.8 36.6 55.0

86 62.7 51.8 77.6





#21

Allvl Chloride

Concen: 0.068 ppbv

RT: 4.19 min Scan# 435

Delta R.T. -0.21 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

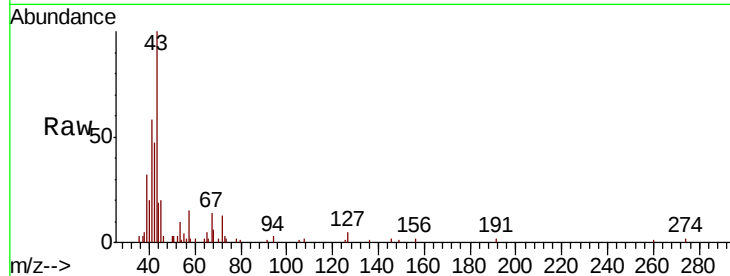
Tot Ion: 41 Resp: 7408

Ion Ratio Lower Upper

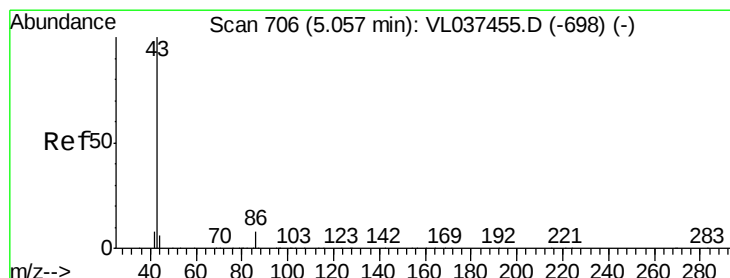
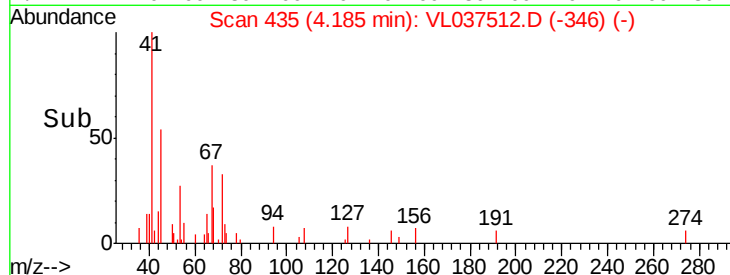
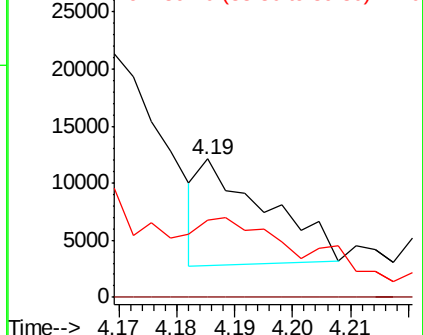
41 100

76 1.7 21.8 32.6#

39 0.0 56.8 85.2#



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



#23

Vinyl Acetate

Concen: 0.065 ppbv

RT: 5.07 min Scan# 709

Delta R.T. 0.01 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Tgt Ion: 43 Resp: 12729

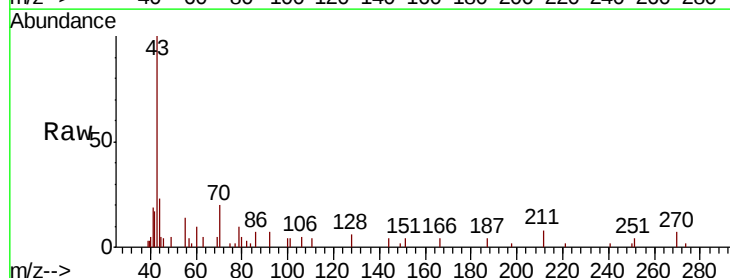
Ion Ratio Lower Upper

43 100

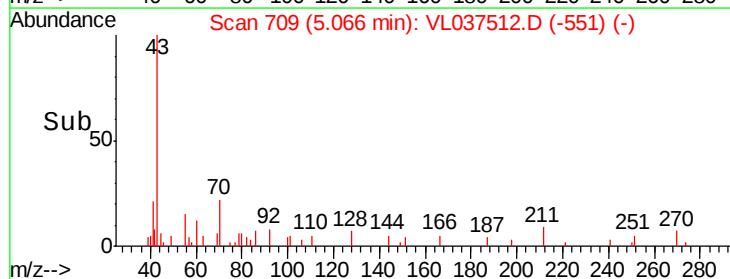
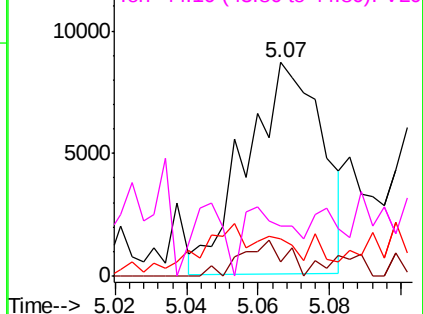
86 7.5 5.7 8.5

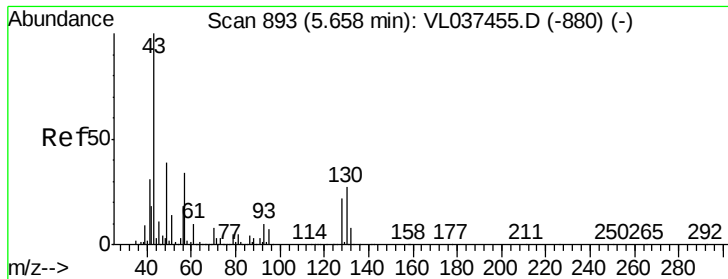
42 11.5 7.4 11.2#

44 15.2 4.3 6.5#



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

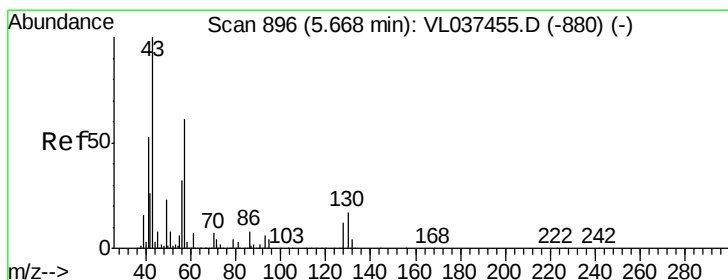
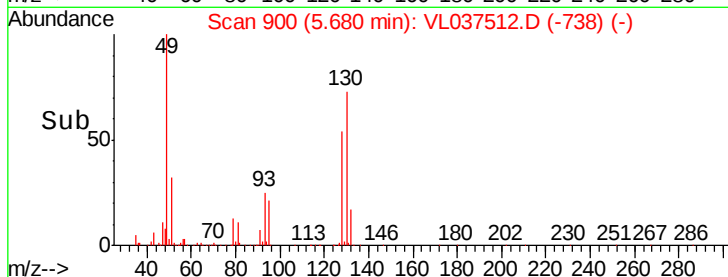
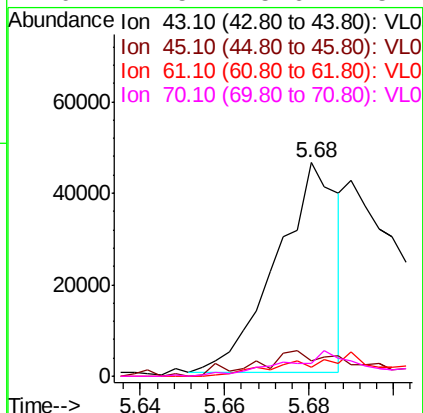
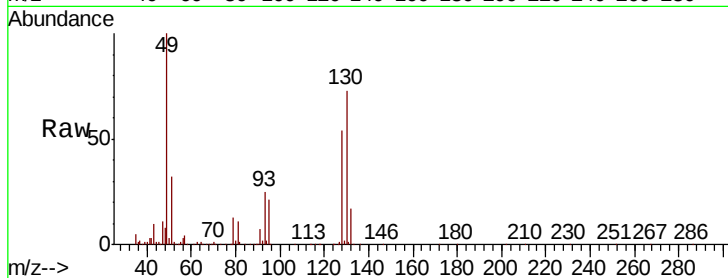




#25
Ethyl Acetate
Concen: 0.137 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.02 min
Lab File: VL037512.D
Acq: 19 Aug 2021 23:48

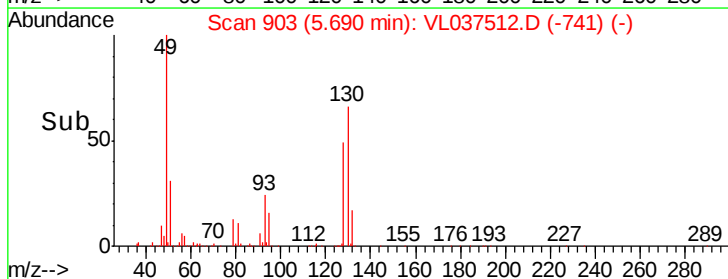
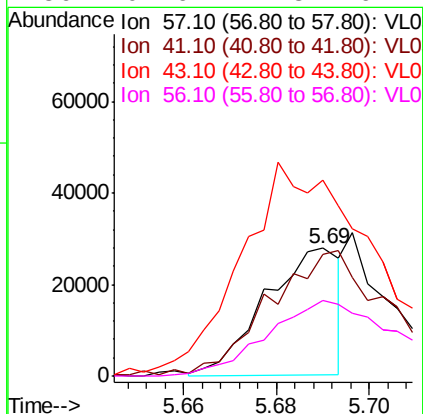
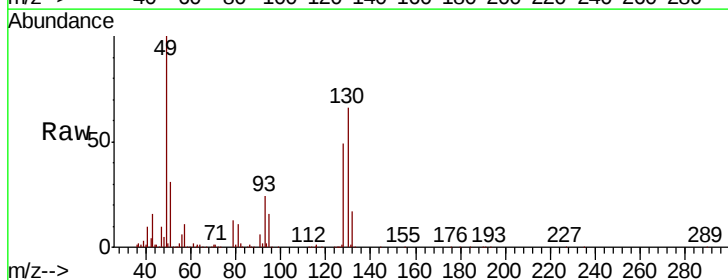
Instrument :
MSVOA_L
ClientSampleId :

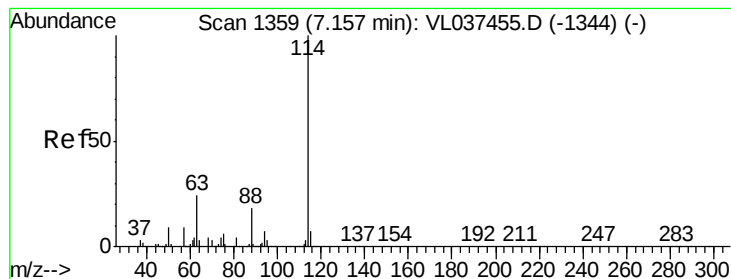
Tot Ion:	43	Resp:	46383
Ion	Ratio	Lower	Upper
43	100		
45	24.7	8.0	12.0#
61	0.0	8.0	12.0#
70	17.5	5.6	8.4#



#26
Hexane
Concen: 0.187 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL037512.D
Acq: 19 Aug 2021 23:48

Tgt Ion:	57	Resp:	31120
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.3	108.5#
43	333.4	172.3	258.5#
56	104.6	42.8	64.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

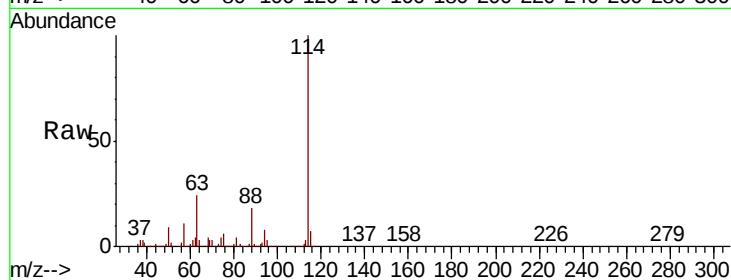
Tot Ion:114 Resp: 3993629

Ion Ratio Lower Upper

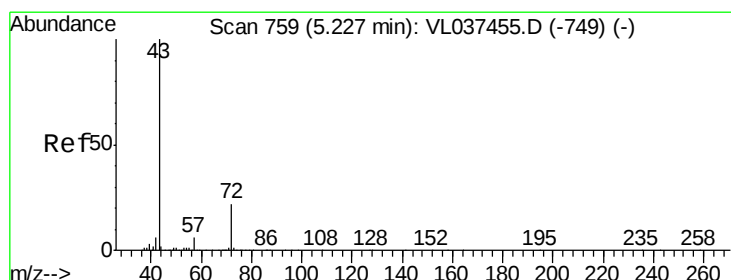
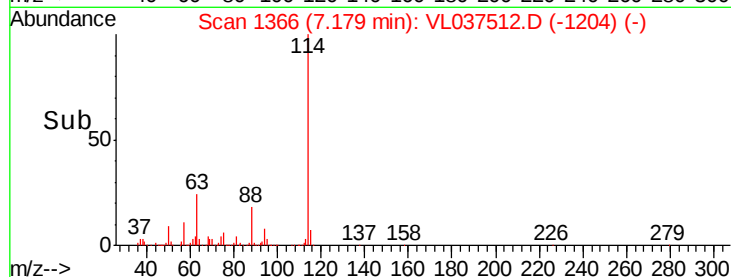
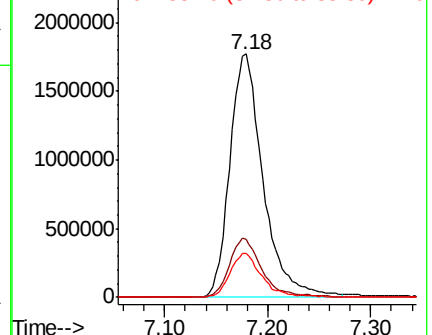
114 100

63 24.0 19.3 28.9

88 17.5 14.2 21.4



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: 0.196 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.03 min

Lab File: VL037512.D

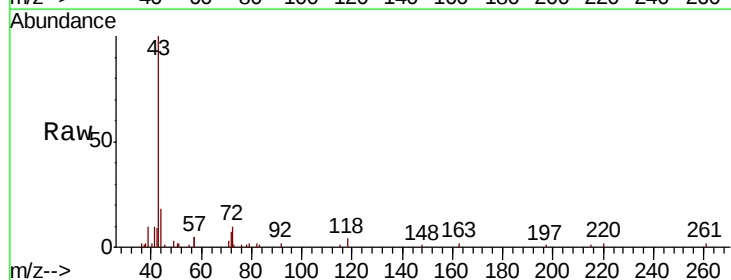
Acq: 19 Aug 2021 23:48

Tgt Ion: 43 Resp: 31885

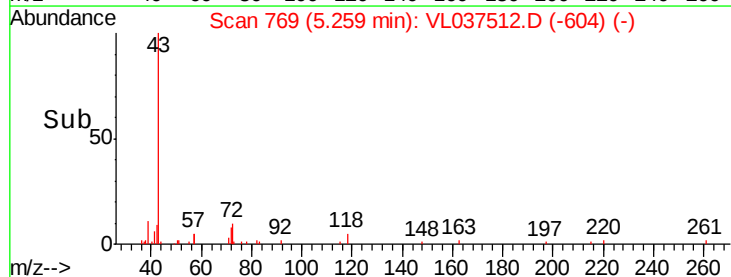
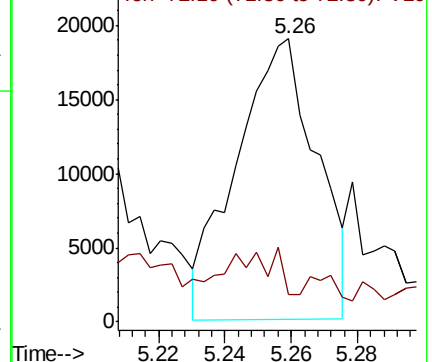
Ion Ratio Lower Upper

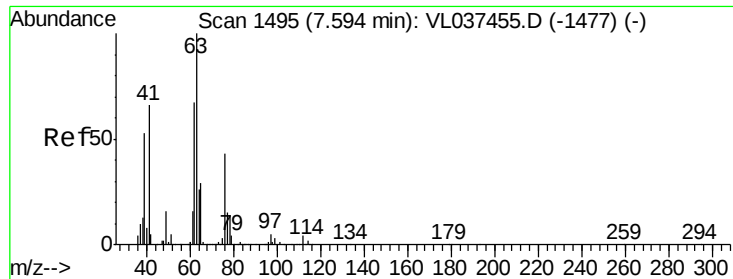
43 100

72 18.9 17.4 26.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0

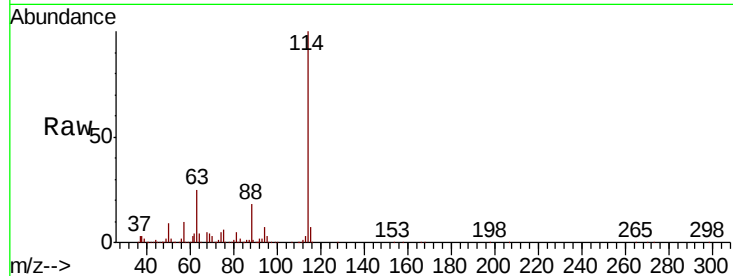




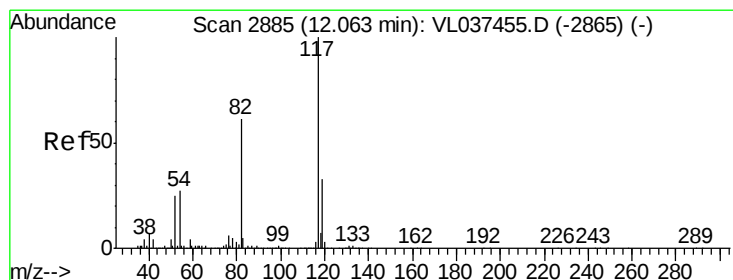
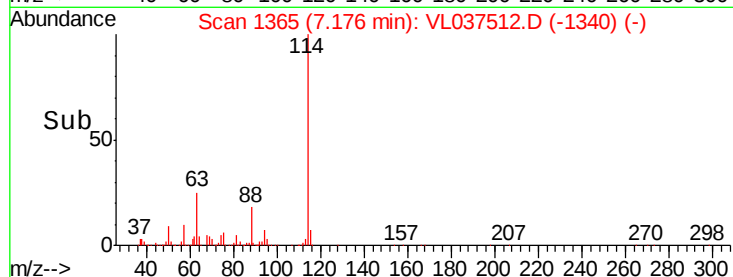
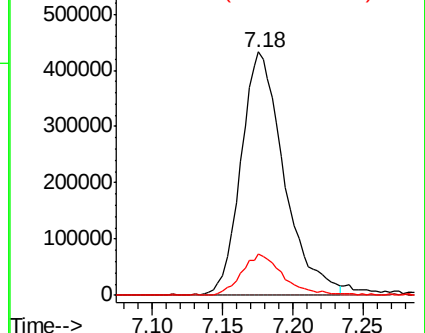
#39
 1,2-Dichloropropane
 Concen: 7.155 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.42 min
 Lab File: VL037512.D
 Acq: 19 Aug 2021 23:48

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 63 Resp: 923038
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.4 78.6#
 62 17.1 53.6 80.4#

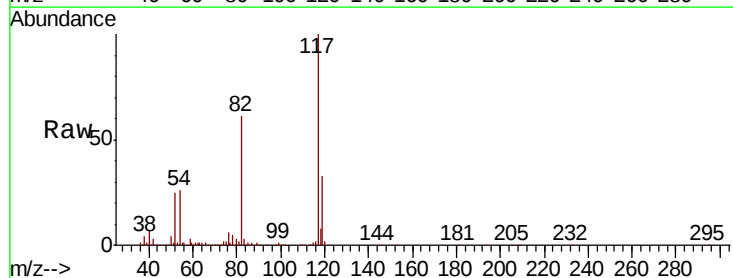


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

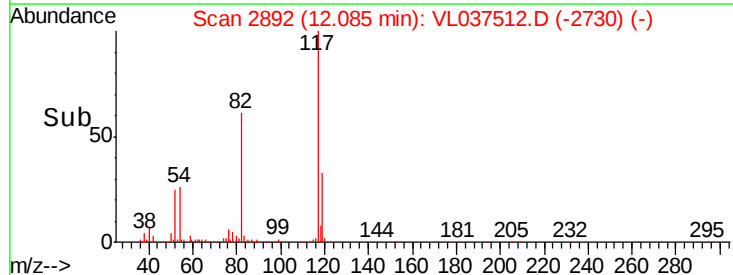
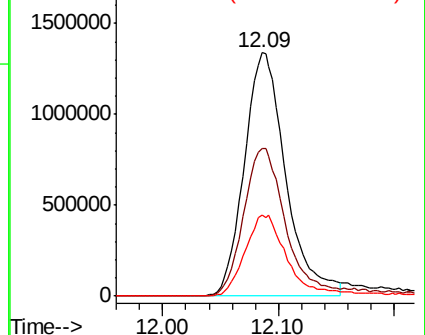


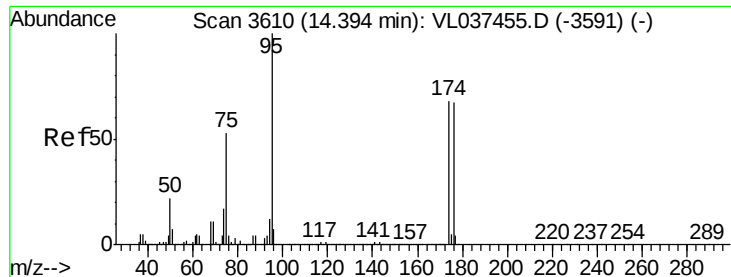
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2892
 Delta R.T. 0.02 min
 Lab File: VL037512.D
 Acq: 19 Aug 2021 23:48

Tgt Ion: 117 Resp: 3334918
 Ion Ratio Lower Upper
 117 100
 82 66.8 52.9 79.3
 119 34.9 24.8 37.2



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: 9.789 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.02 min

Lab File: VL037512.D

Acq: 19 Aug 2021 23:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2319311

Ion Ratio Lower Upper

95 100

174 79.4 59.6 89.4

175 6.0 4.6 7.0

