

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036573.D
 Acq On : 30 Mar 2021 17:20
 Operator : SY/AP
 Sample : M1797-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 05:16:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1409730	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3323286	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2937887	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2342095	10.00	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

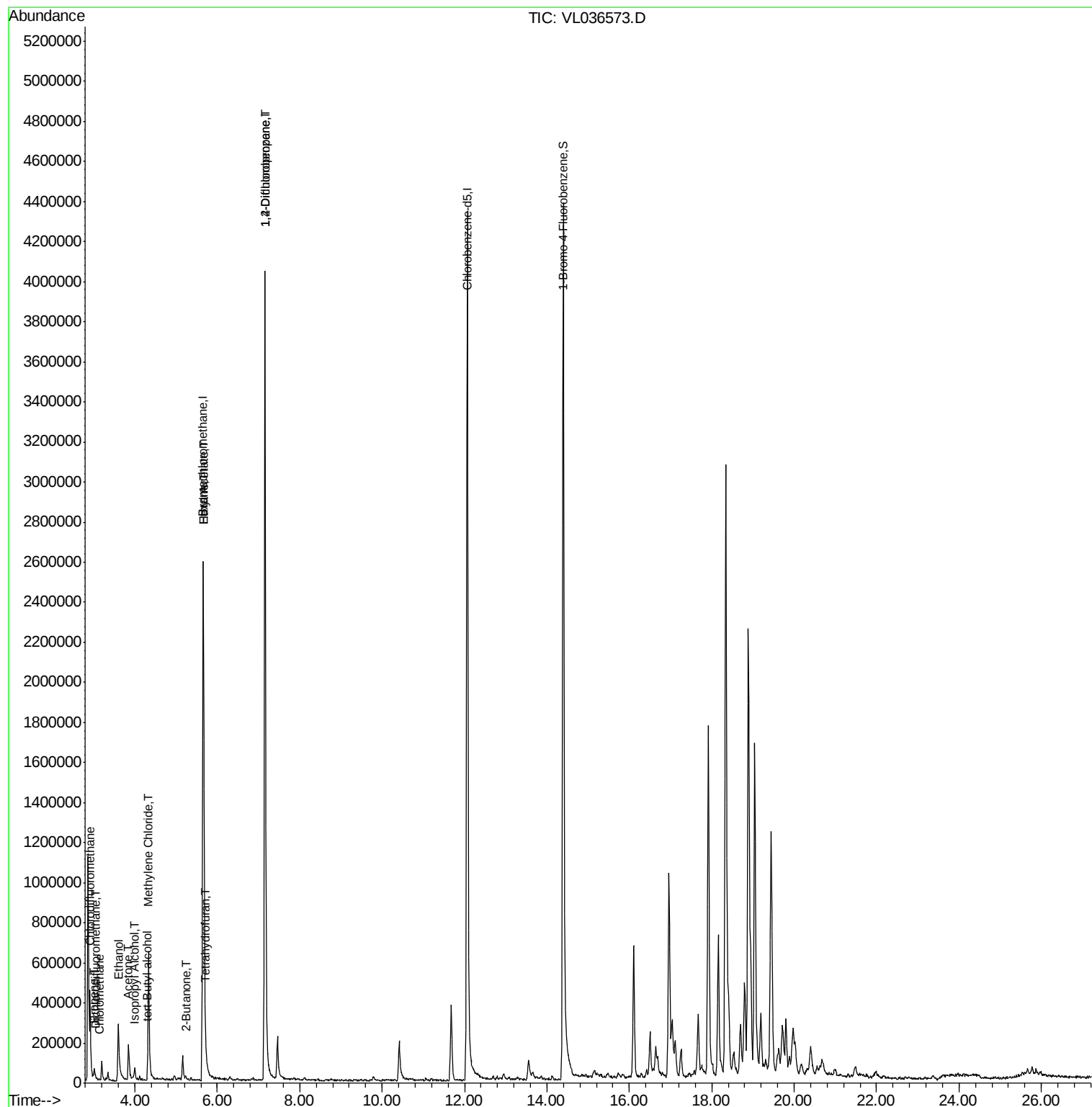
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	10188	0.044 ppbv #	81
3) Chlorodifluoromethane	2.91	51	62654	0.238 ppbv #	60
4) Chloromethane	3.13	50	2167	0.023 ppbv #	57
9) Propene	3.01	41	13696	0.163 ppbv	95
13) Ethanol	3.59	45	386458	38.649 ppbv	99
15) Acetone	3.84	43	222354	1.603 ppbv #	79
17) tert-Butyl alcohol	4.30	59	4339	0.036 ppbv #	87
19) Isopropyl Alcohol	3.98	45	11294	0.148 ppbv #	89
20) Methylene Chloride	4.33	84	259507	3.995 ppbv	97
25) Ethyl Acetate	5.67	43	329801	1.000 ppbv #	78
26) Hexane	5.67	57	440410	2.877 ppbv #	47
34) 2-Butanone	5.23	43	5284	0.033 ppbv #	55
39) 1,2-Dichloropropane	7.16	63	876810	7.052 ppbv #	24
41) Tetrahydrofuran	5.72	42	1997	0.027 ppbv #	48

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

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MSVOA_L
ClientSampleId :

Quant Time: Mar 31 05:16:07 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

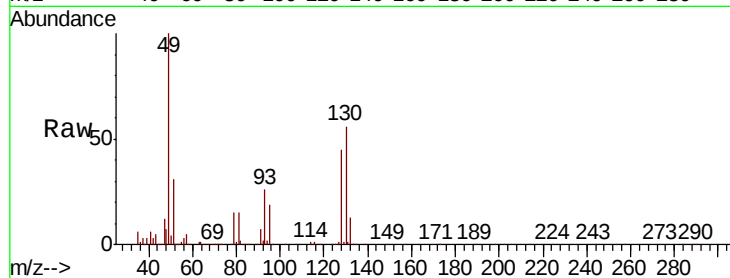
Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1409730

Ion	Ratio	Lower	Upper
49	100		
128	45.4	23.5	70.6
130	58.8	29.1	87.4

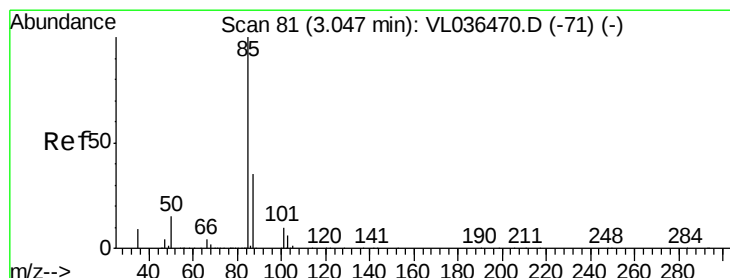
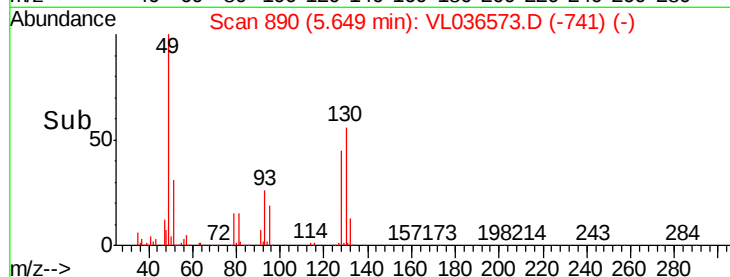
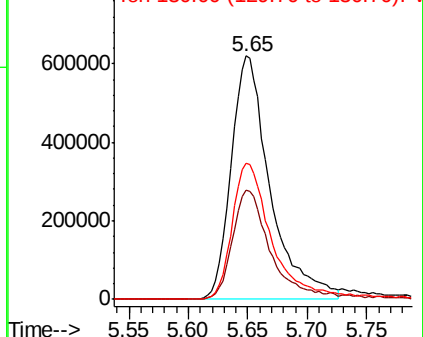


Abundance

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



#2

Dichlorodifluoromethane

Concen: 0.044 ppbv

RT: 3.04 min Scan# 78

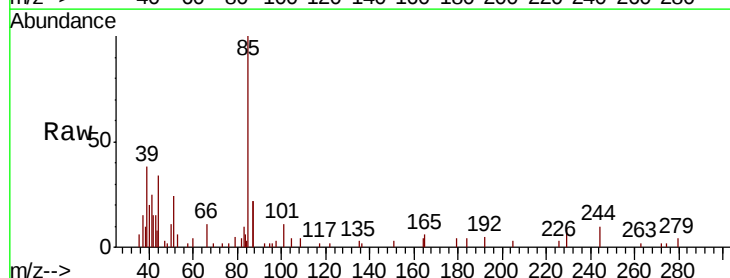
Delta R.T. -0.01 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Tgt Ion: 85 Resp: 10188

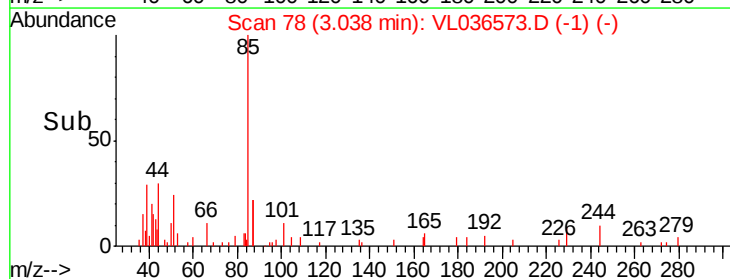
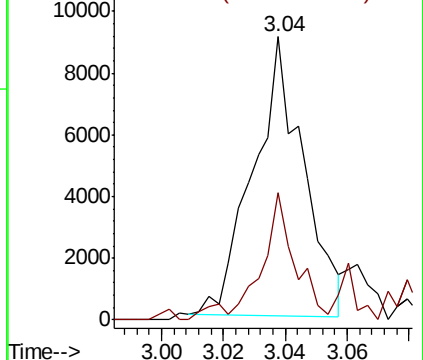
Ion	Ratio	Lower	Upper
85	100		
87	45.8	27.8	41.8



Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.238 ppbv

RT: 2.91 min Scan# 39

Delta R.T. -0.07 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Instrument :

MSVOA_L

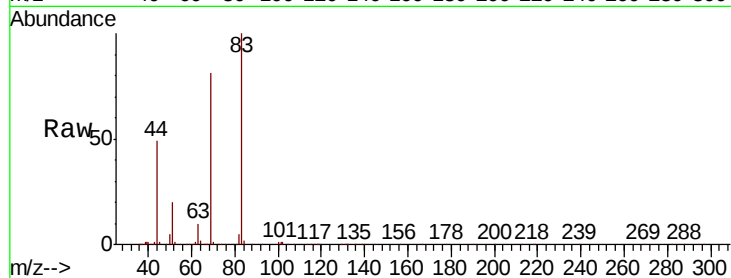
ClientSampleId :

Tot Ion: 51 Resp: 62654

Ion Ratio Lower Upper

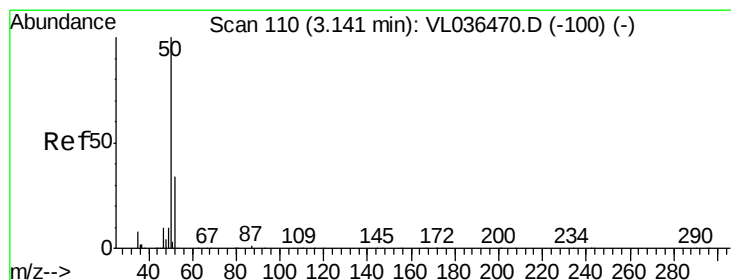
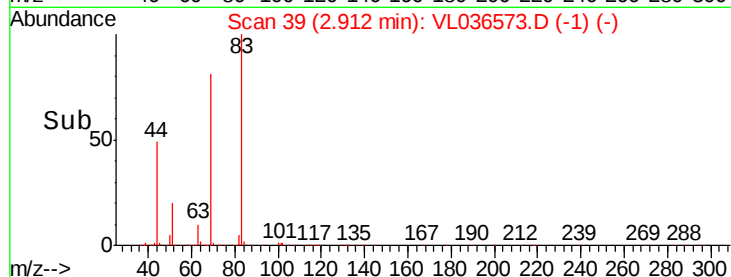
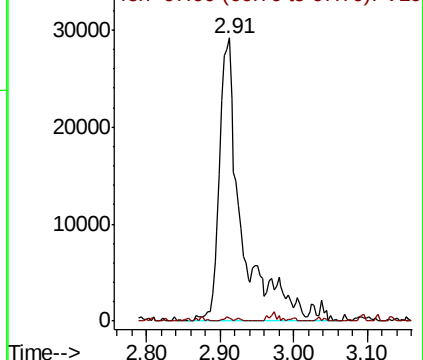
51 100

67 0.6 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036573.D

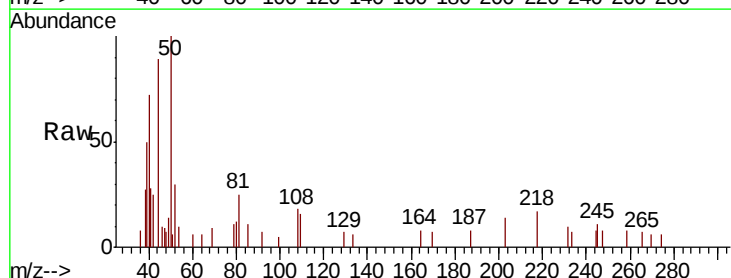
Acq: 30 Mar 2021 17:20

Tgt Ion: 50 Resp: 2167

Ion Ratio Lower Upper

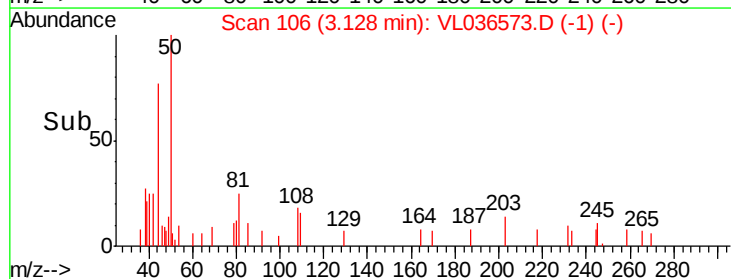
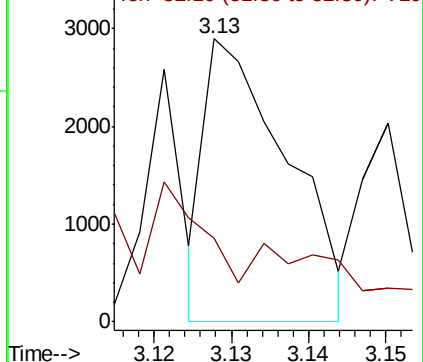
50 100

52 9.4 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

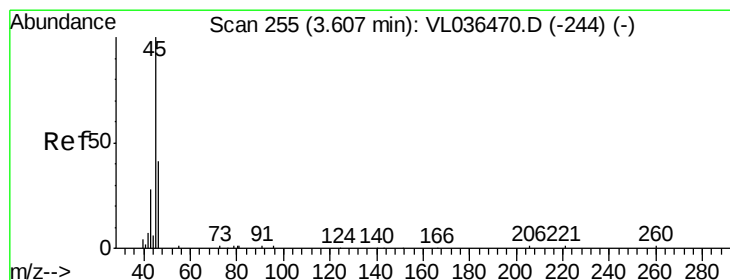
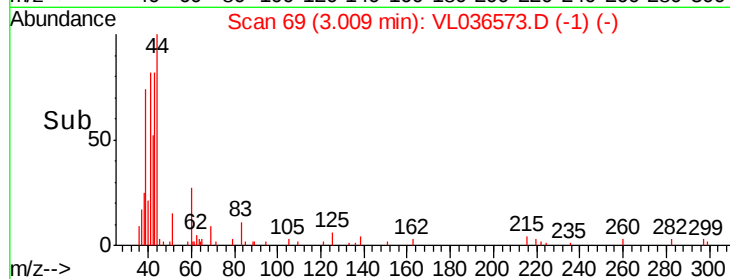
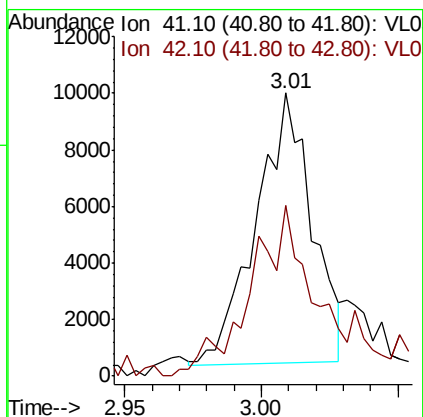
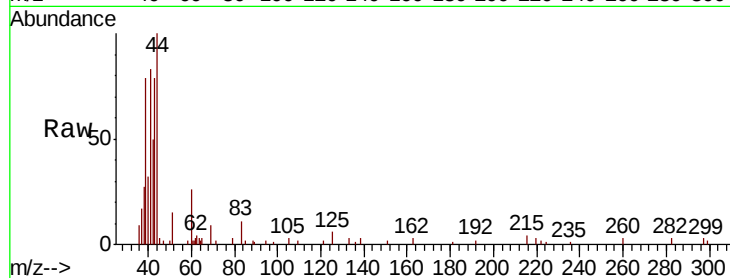




#9
 Propene
 Concen: 0.163 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.00 min
 Lab File: VL036573.D
 Acq: 30 Mar 2021 17:20

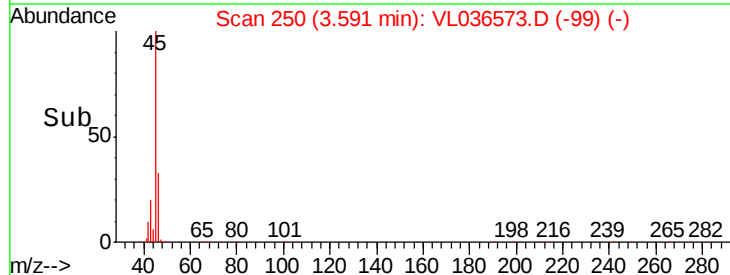
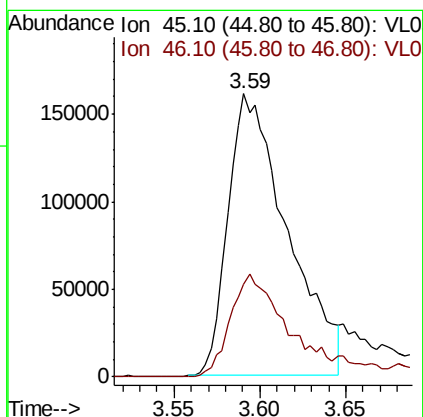
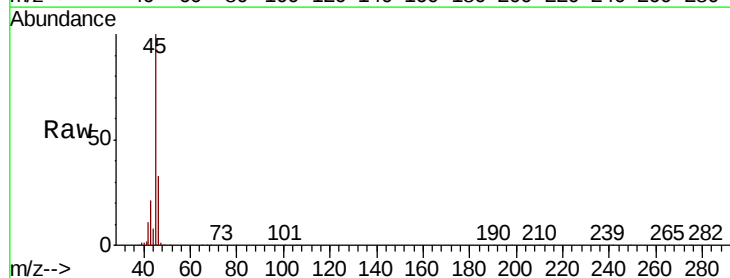
Instrument :
 MSVOA_L
 ClientSampled :

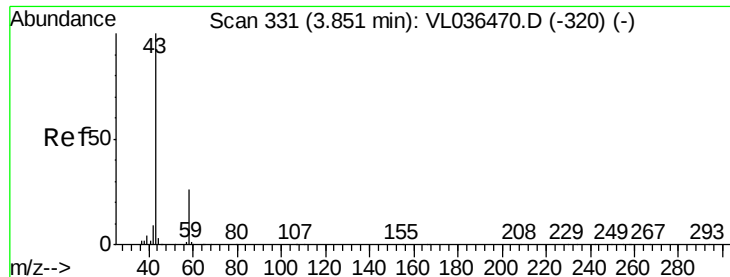
Tot Ion: 41 Resp: 13696
 Ion Ratio Lower Upper
 41 100
 42 75.1 57.0 85.4



#13
 Ethanol
 Concen: 38.649 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.02 min
 Lab File: VL036573.D
 Acq: 30 Mar 2021 17:20

Tgt Ion: 45 Resp: 386458
 Ion Ratio Lower Upper
 45 100
 46 42.2 16.6 66.2





#15

Acetone

Concen: 1.603 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Instrument :

MSVOA_L

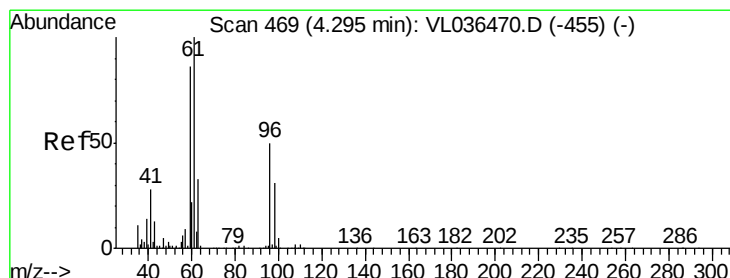
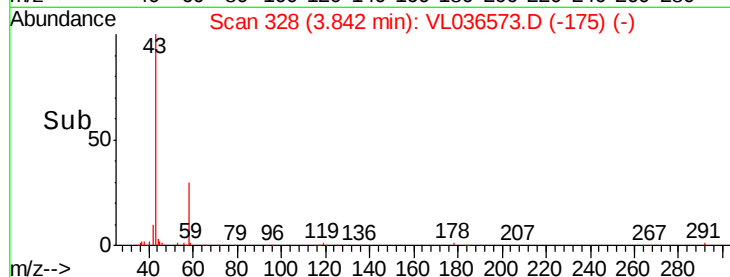
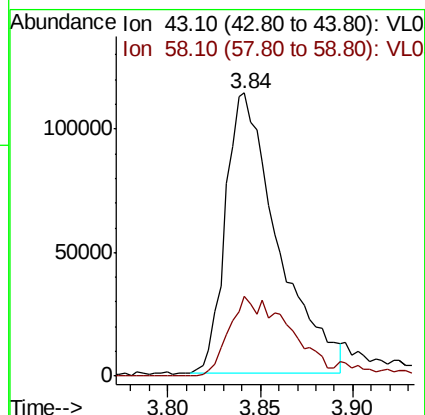
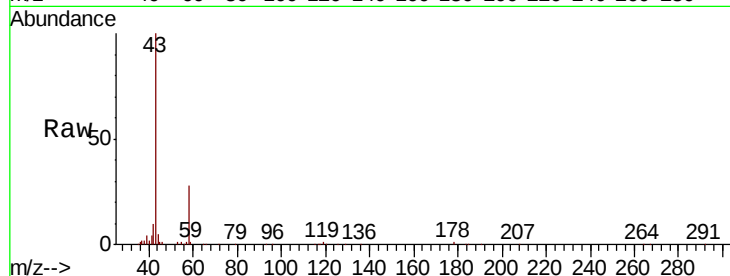
ClientSampleId :

Tot Ion: 43 Resp: 222354

Ion Ratio Lower Upper

43 100

58 37.1 21.2 31.8#



#17

tert-Butyl alcohol

Concen: 0.036 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL036573.D

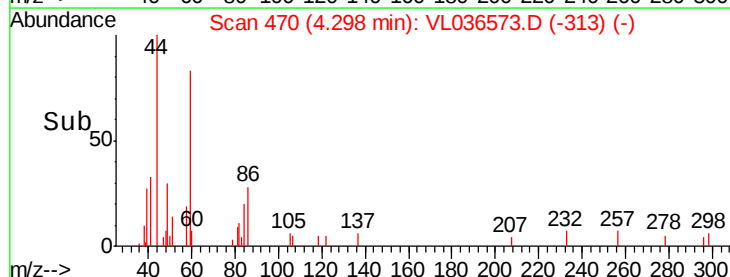
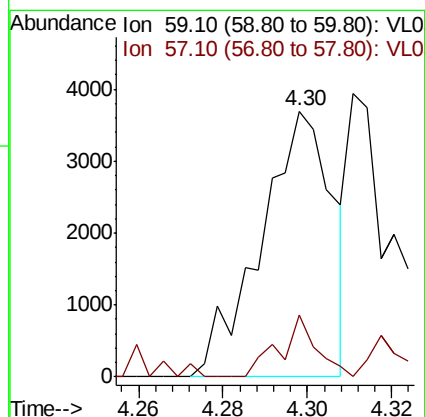
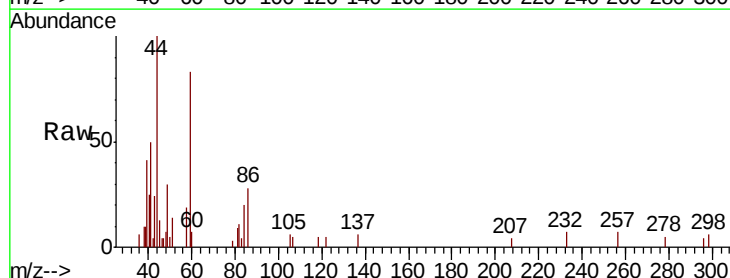
Acq: 30 Mar 2021 17:20

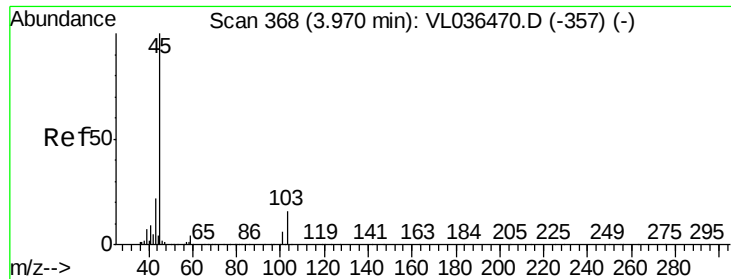
Tgt Ion: 59 Resp: 4339

Ion Ratio Lower Upper

59 100

57 15.5 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.148 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Instrument :

MSVOA_L

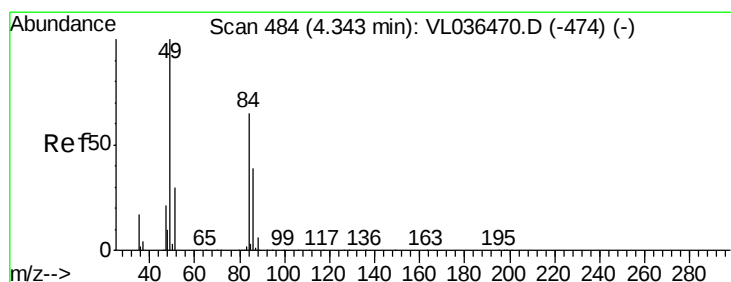
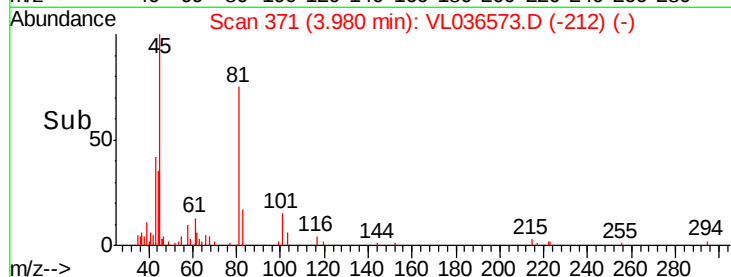
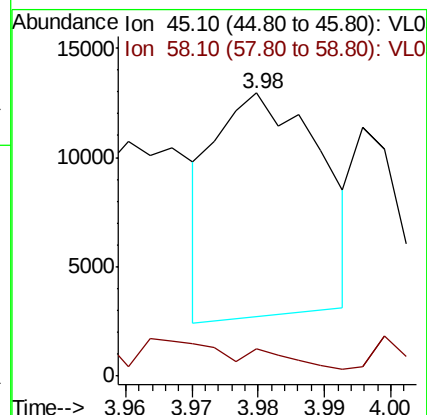
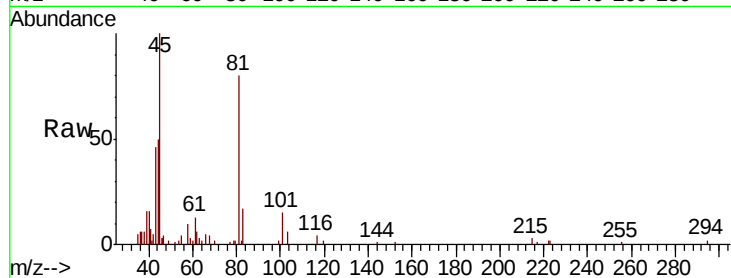
ClientSampleId :

Tot Ion: 45 Resp: 11294

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 3.995 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Tgt Ion: 84 Resp: 259507

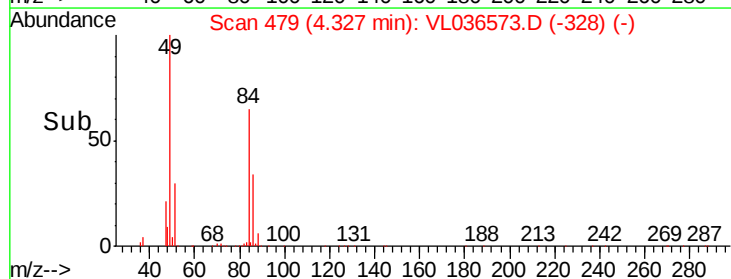
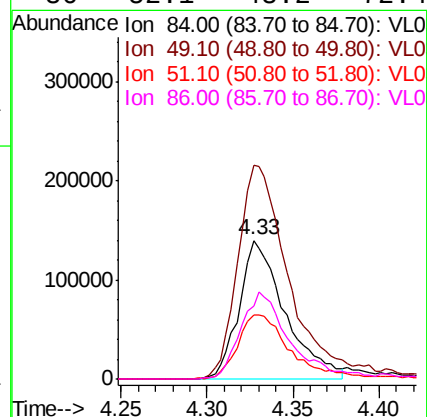
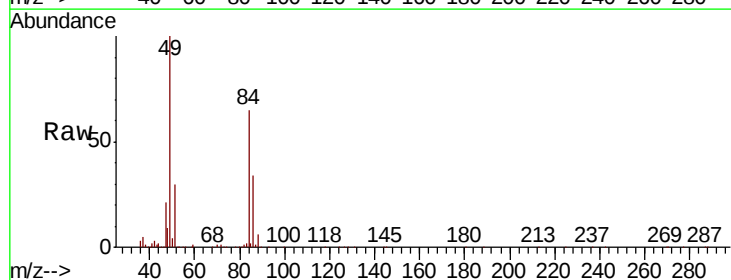
Ion Ratio Lower Upper

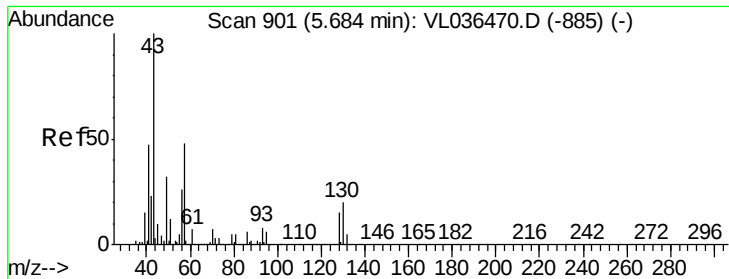
84 100

49 153.7 122.9 184.3

51 46.2 36.9 55.3

86 52.1 48.2 72.4

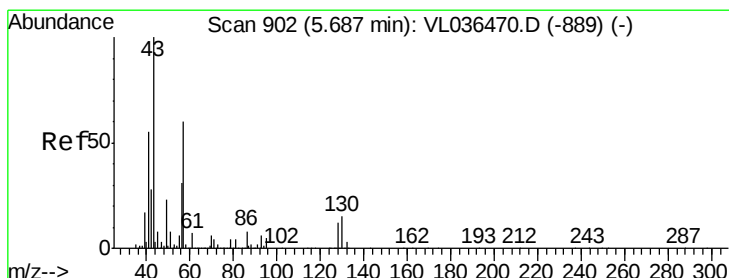
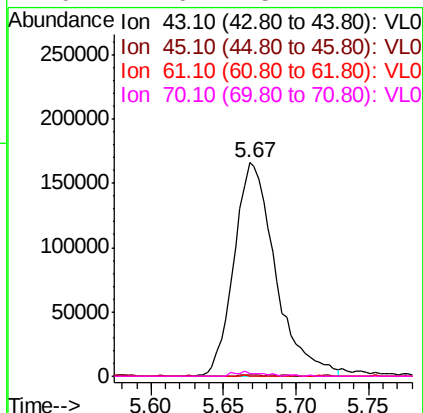
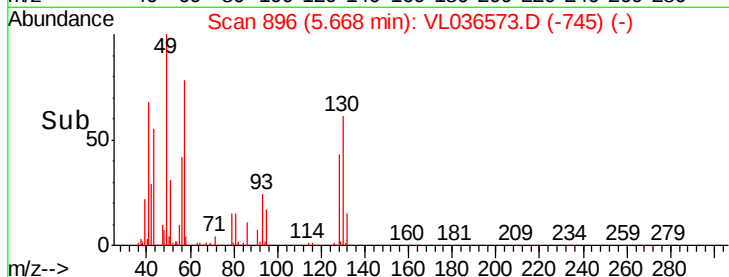
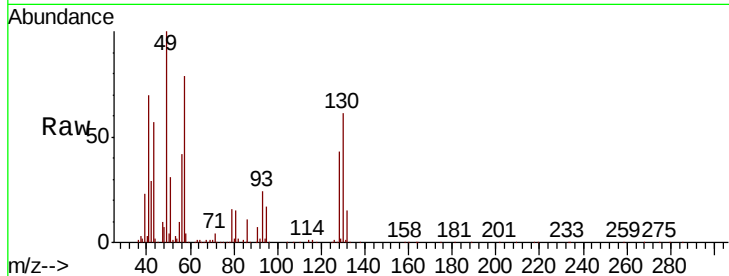




#25
Ethyl Acetate
Concen: 1.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL036573.D
Acq: 30 Mar 2021 17:20

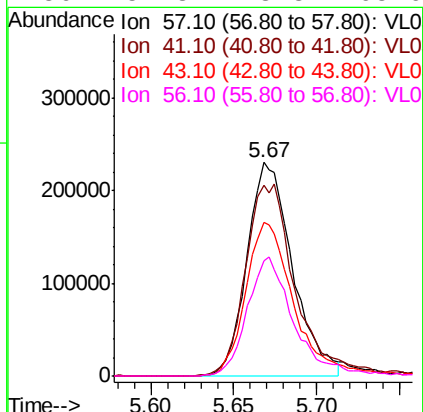
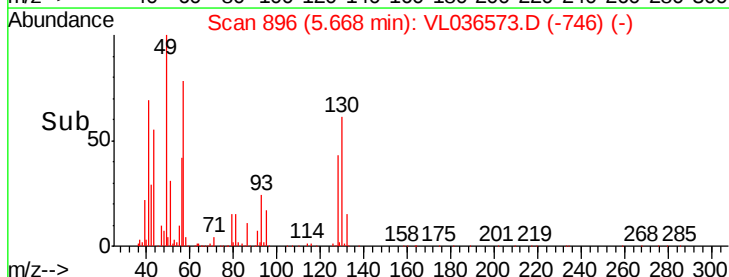
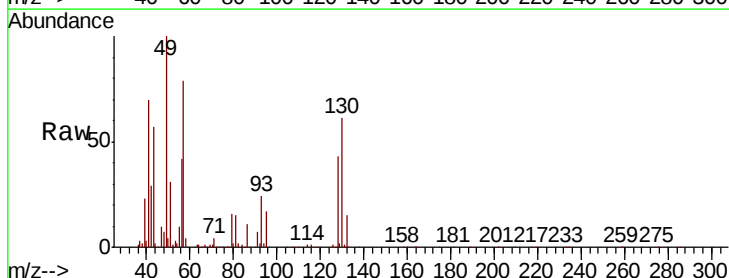
Instrument :
MSVOA_L
ClientSampled :

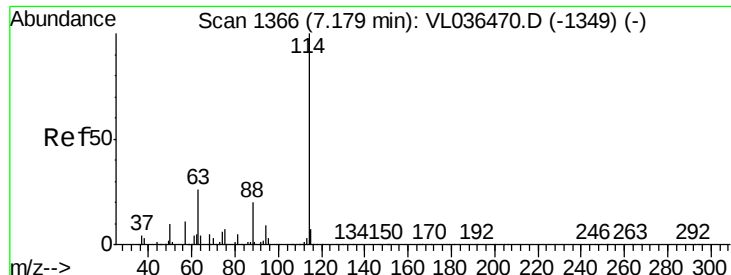
Tot Ion:	43	Resp:	329801
Ion	Ratio	Lower	Upper
43	100		
45	0.8	7.9	11.9#
61	0.2	7.4	11.2#
70	1.6	5.1	7.7#



#26
Hexane
Concen: 2.877 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL036573.D
Acq: 30 Mar 2021 17:20

Tgt Ion:	57	Resp:	440410
Ion	Ratio	Lower	Upper
57	100		
41	100.8	77.2	115.8
43	77.9	173.8	260.6#
56	57.3	43.8	65.6

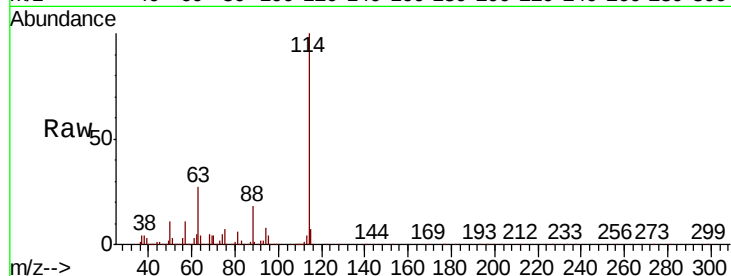




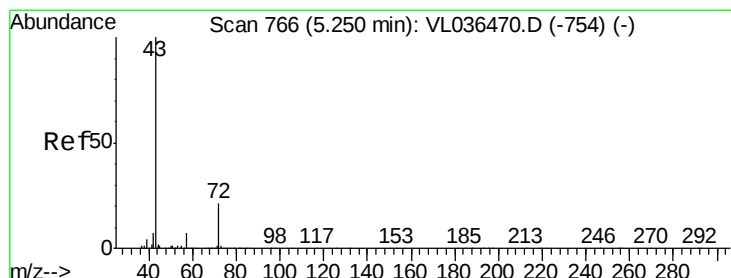
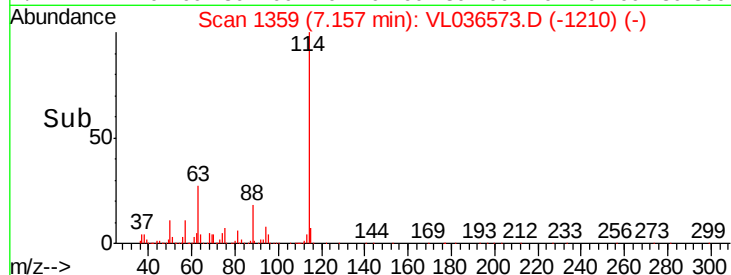
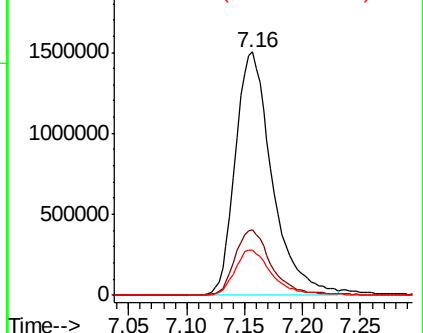
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL036573.D
 Acq: 30 Mar 2021 17:20

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3323286
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.4 33.6
 88 19.0 15.4 23.0

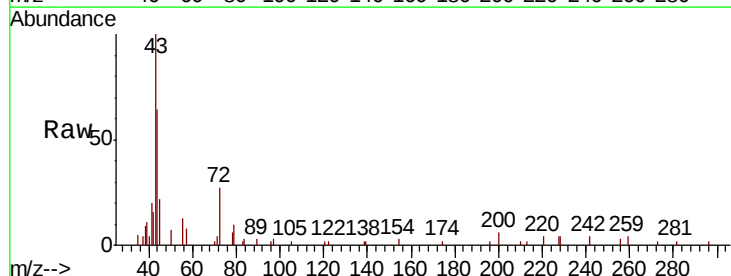


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

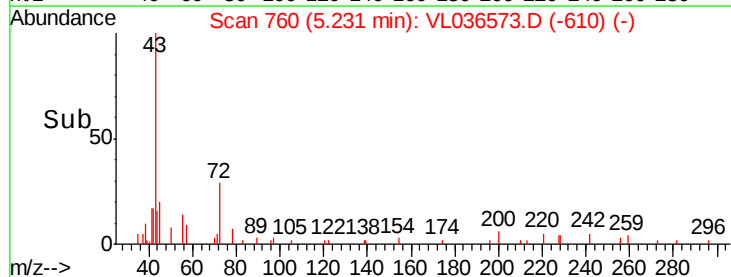
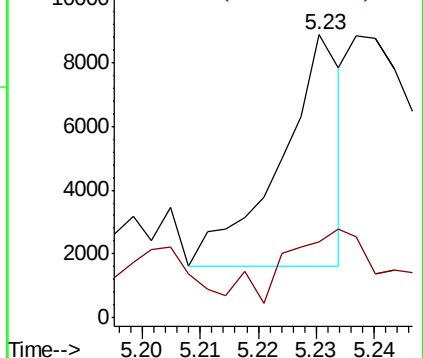


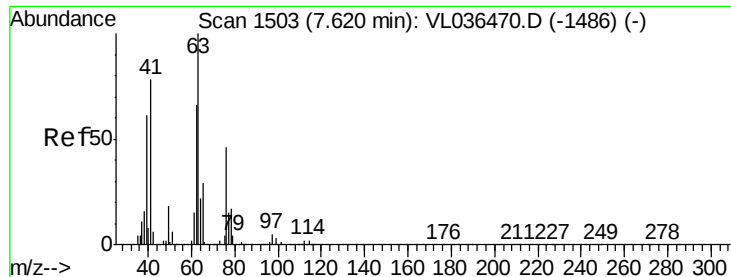
#34
 2-Butanone
 Concen: 0.033 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL036573.D
 Acq: 30 Mar 2021 17:20

Tgt Ion: 43 Resp: 5284
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#



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





#39

1,2-Dichloropropane

Concen: 7.052 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.46 min

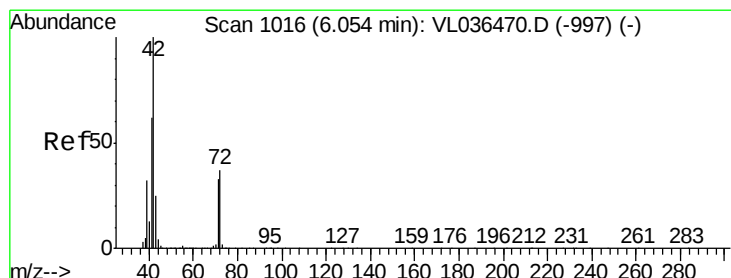
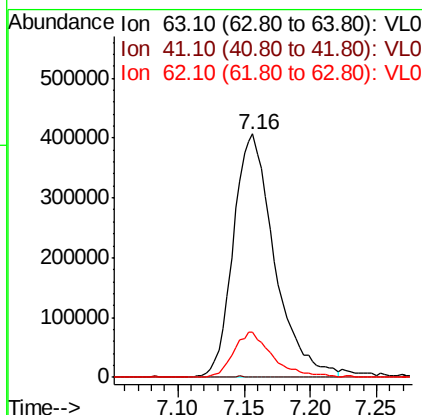
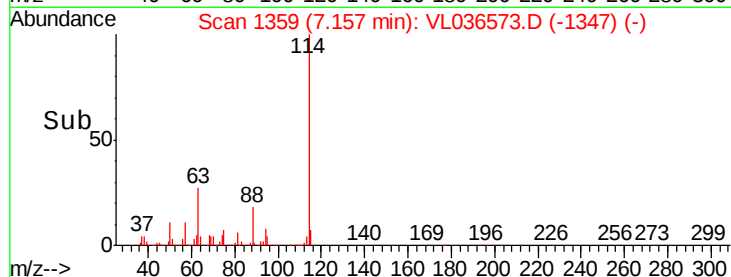
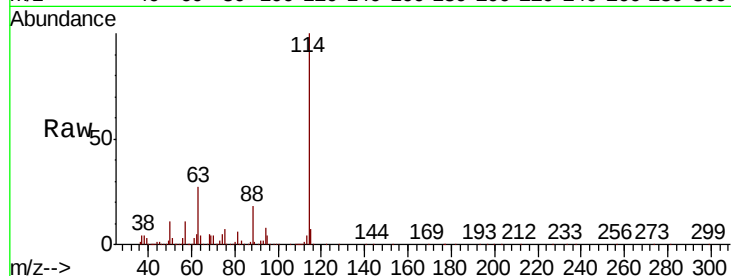
Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 63 Resp: 876810

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	18.7	52.8	79.2#



#41

Tetrahydrofuran

Concen: 0.027 ppbv

RT: 5.72 min Scan# 911

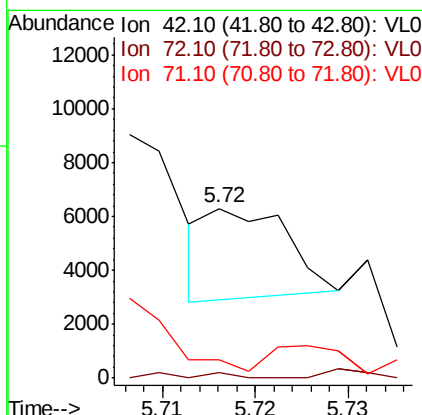
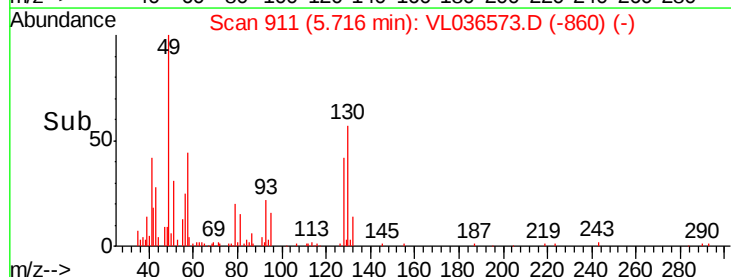
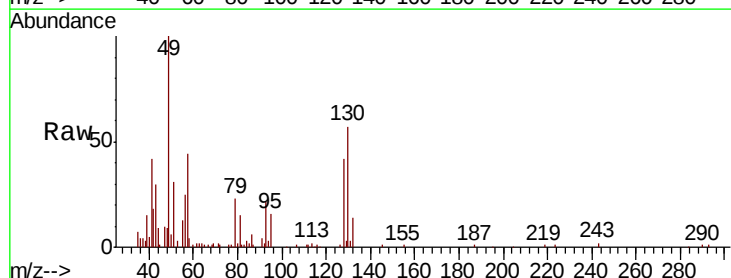
Delta R.T. -0.34 min

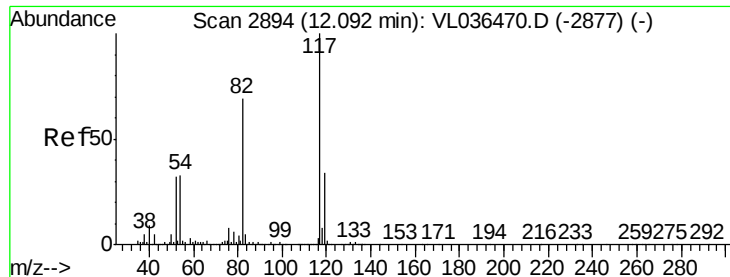
Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Tgt Ion: 42 Resp: 1997

Ion	Ratio	Lower	Upper
42	100		
72	9.0	27.6	41.4#
71	0.0	27.0	40.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

Instrument :

MSVOA_L

ClientSampleId :

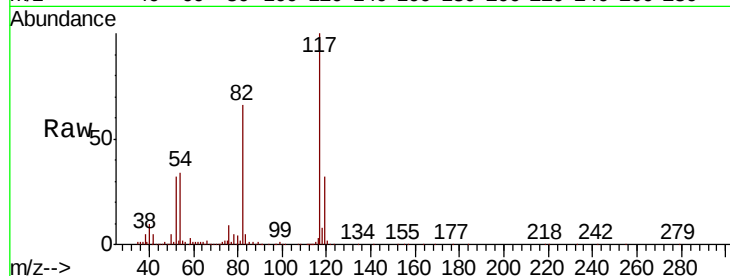
Tot Ion:117 Resp: 2937887

Ion Ratio Lower Upper

117 100

82 69.8 57.4 86.0

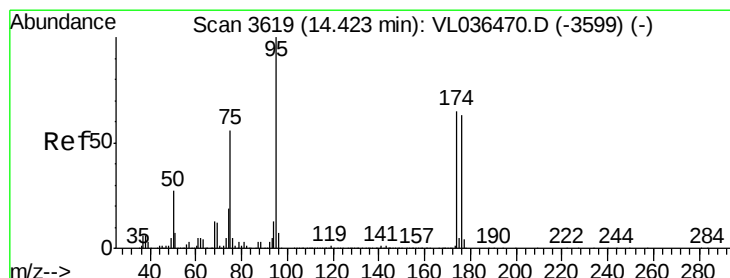
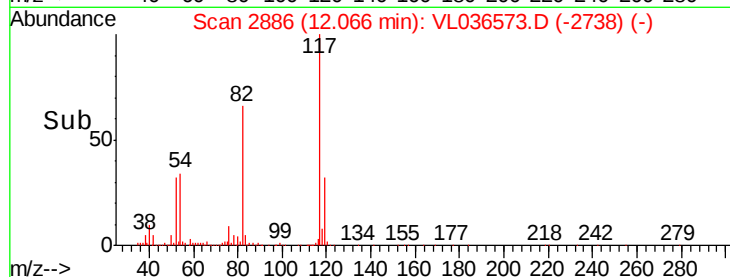
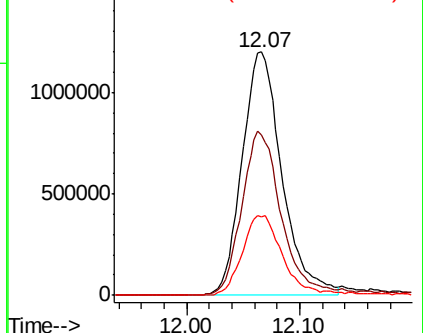
119 34.6 47.4 71.0#



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: 10.002 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL036573.D

Acq: 30 Mar 2021 17:20

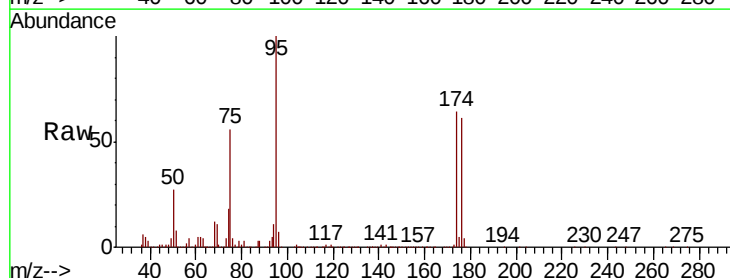
Tgt Ion: 95 Resp: 2342095

Ion Ratio Lower Upper

95 100

174 67.3 51.0 76.6

175 5.0 3.9 5.9



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

