

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036325.D
 Acq On : 10 Feb 2021 19:56
 Operator : SY/AP
 Sample : M1343-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 06:11:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1377272	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2981296	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	2638454	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2067353	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

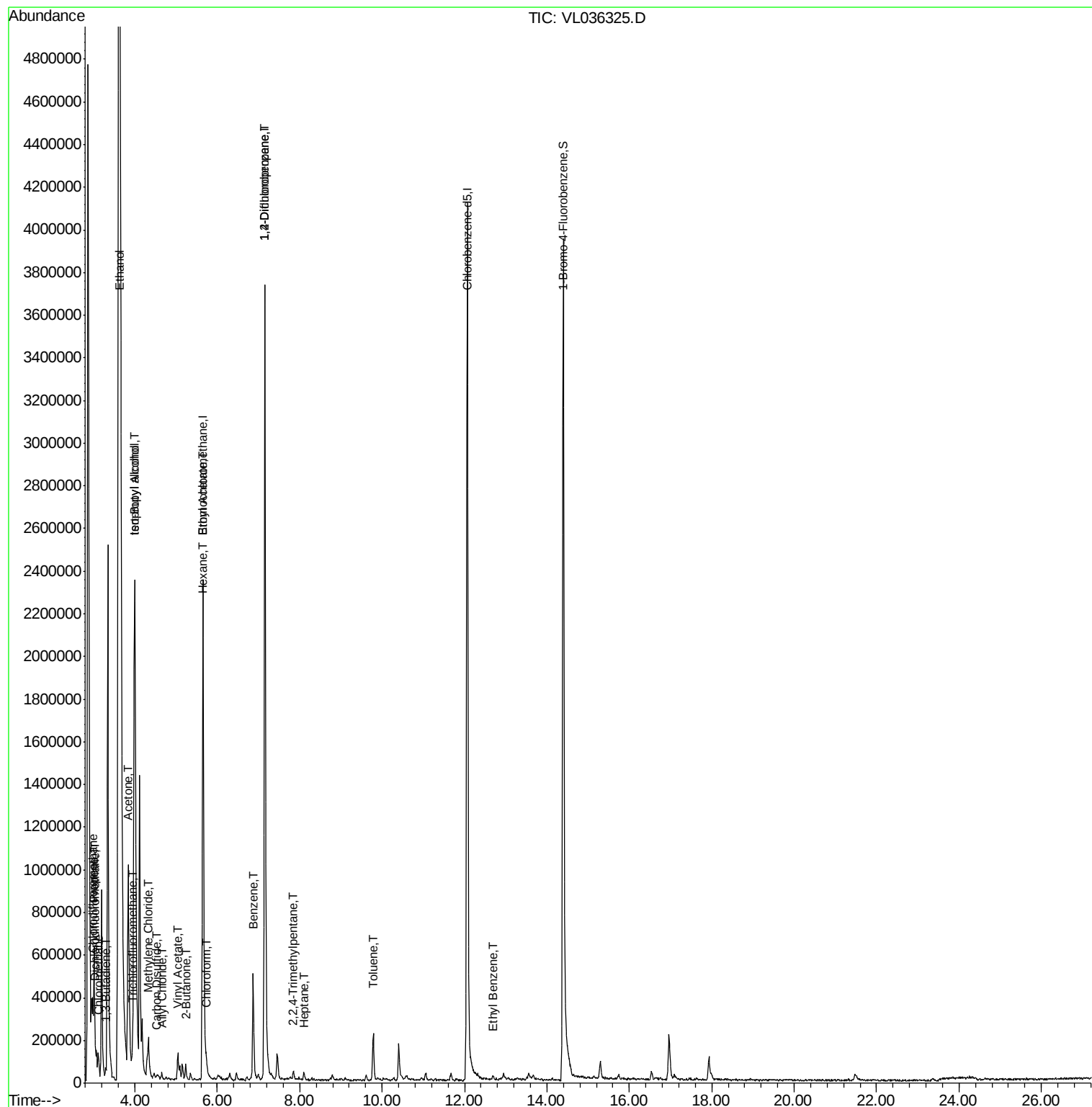
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	53239	0.259 ppbv	98
3) Chlorodifluoromethane	2.97	51	552424	3.228 ppbv #	83
4) Chloromethane	3.13	50	38295	0.463 ppbv #	88
9) Propene	3.01	41	164055	2.571 ppbv #	76
10) Heptane	8.10	43	5671	0.030 ppbv #	1
11) Trichlorofluoromethane	3.93	101	39645	0.197 ppbv	85
13) Ethanol	3.62	45	8758390	730.842 ppbv #	39
15) Acetone	3.83	43	1266229	7.521 ppbv	100
16) 1,3-Butadiene	3.29	39	13152	0.163 ppbv #	13
17) tert-Butyl alcohol	4.00	59	171442	1.312 ppbv	99
19) Isopropyl Alcohol	3.99	45	4873677	52.252 ppbv #	97
20) Methylene Chloride	4.32	84	58889	1.084 ppbv #	78
21) Allyl Chloride	4.65	41	12864	0.137 ppbv #	1
23) Vinyl Acetate	5.04	43	116114	0.587 ppbv #	67
25) Ethyl Acetate	5.66	43	105583	0.325 ppbv #	68
26) Hexane	5.66	57	57755	0.432 ppbv #	50
27) Carbon Disulfide	4.53	76	10282	0.084 ppbv #	59
29) Chloroform	5.73	83	19274	0.090 ppbv	97
34) 2-Butanone	5.23	43	87805	0.443 ppbv	94
36) Benzene	6.87	78	427630	1.689 ppbv	95
39) 1,2-Dichloropropane	7.15	63	851830	8.280 ppbv #	23
44) 2,2,4-Trimethylpentane	7.84	57	13837	0.030 ppbv #	40
53) Toluene	9.78	91	146952	0.536 ppbv	94
58) Ethyl Benzene	12.69	91	15871	0.044 ppbv	100

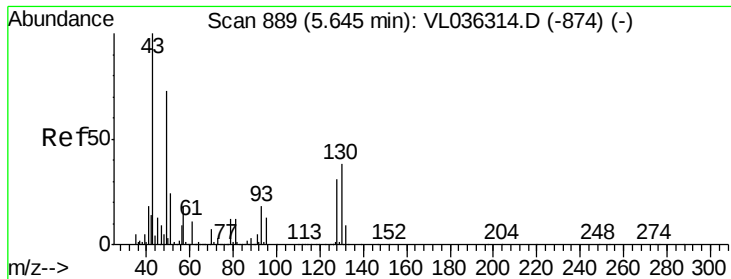
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

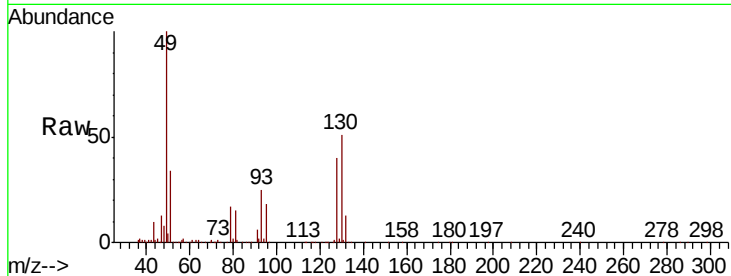
Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1377272

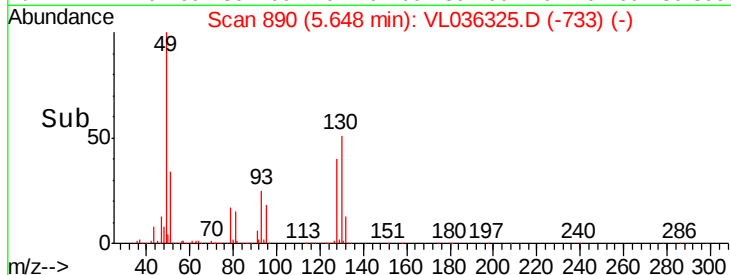
Ion	Ratio	Lower	Upper
49	100		
128	41.6	20.8	62.5
130	53.5	26.7	80.1



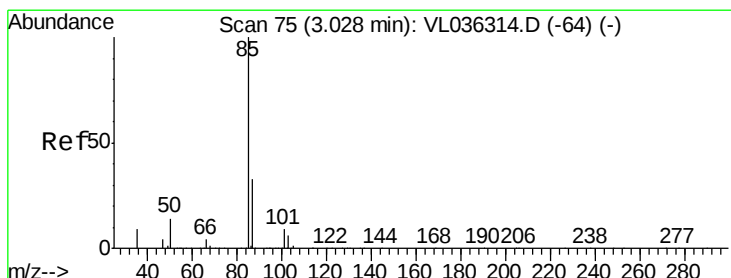
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.259 ppbv

RT: 3.03 min Scan# 77

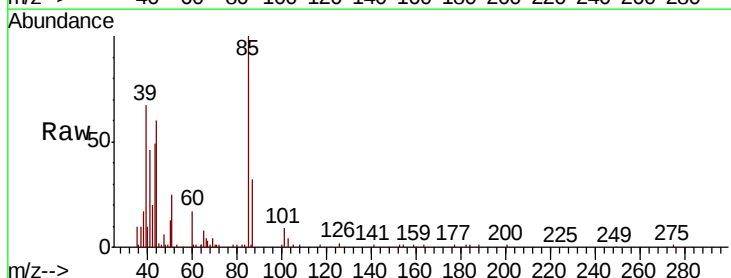
Delta R.T. 0.01 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

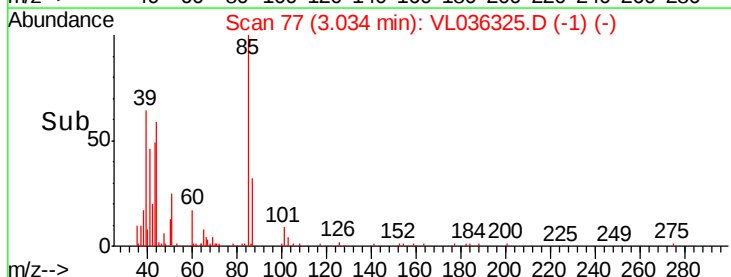
Tgt Ion: 85 Resp: 53239

Ion	Ratio	Lower	Upper
85	100		
87	32.0	26.5	39.7

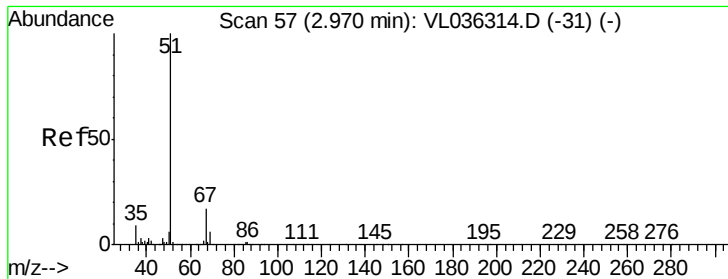


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 3.228 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :

MSVOA_L

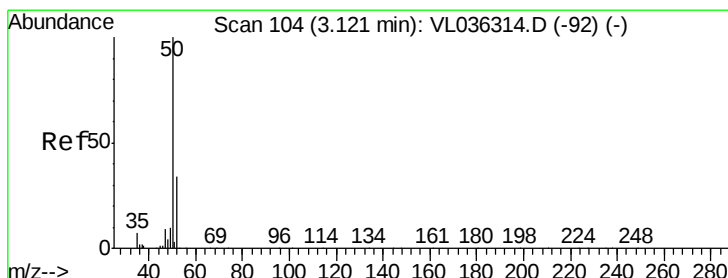
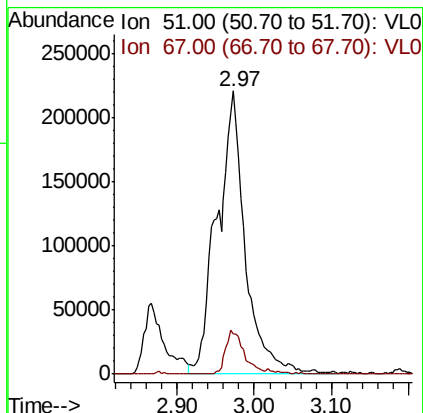
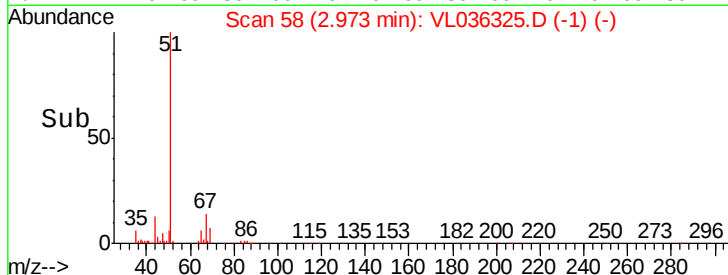
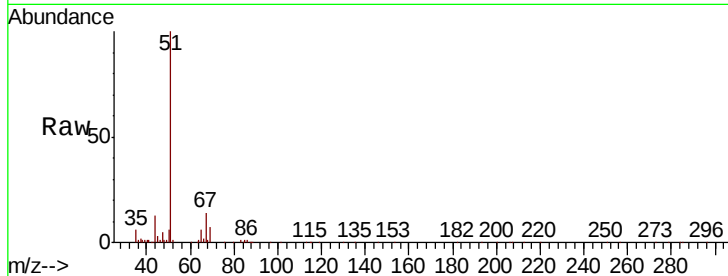
ClientSampleId :

Tot Ion: 51 Resp: 552424

Ion Ratio Lower Upper

51 100

67 11.0 14.7 22.1#



#4

Chloromethane

Concen: 0.463 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL036325.D

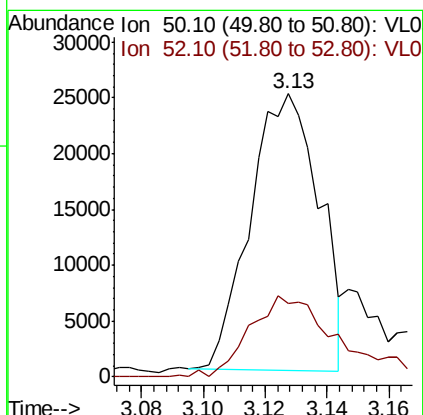
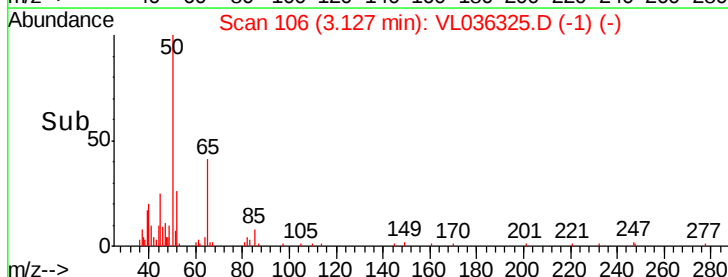
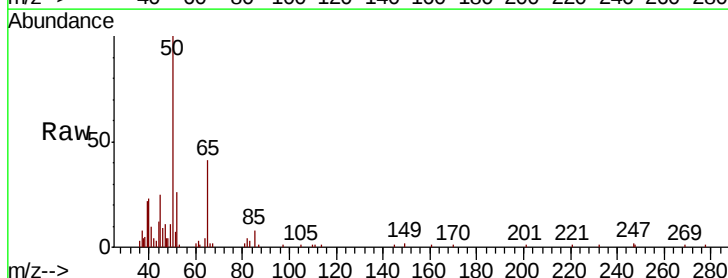
Acq: 10 Feb 2021 19:56

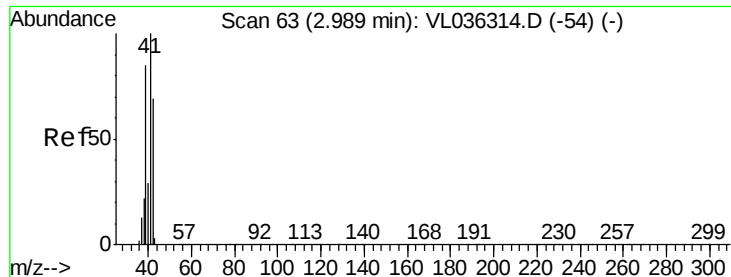
Tgt Ion: 50 Resp: 38295

Ion Ratio Lower Upper

50 100

52 26.6 27.0 40.4#





#9

Propene

Concen: 2.571 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :

MSVOA_L

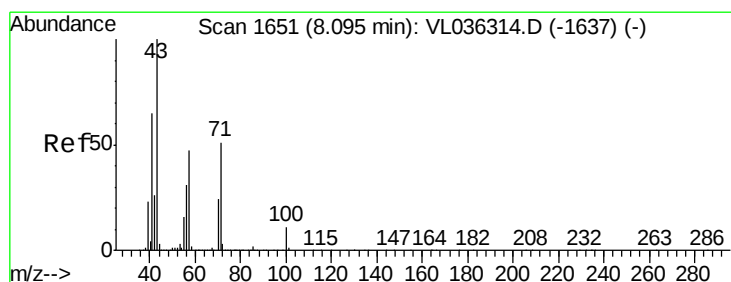
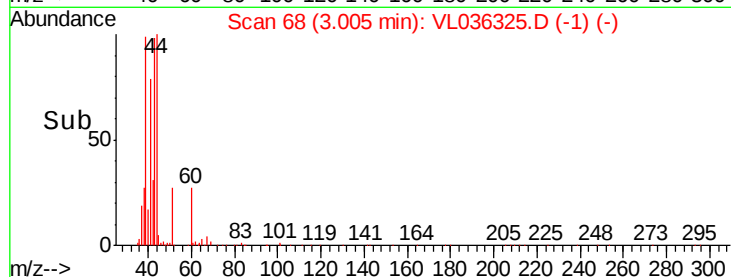
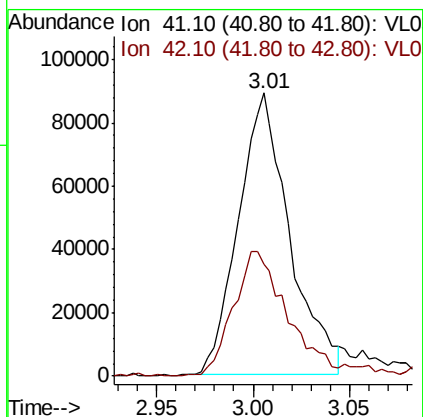
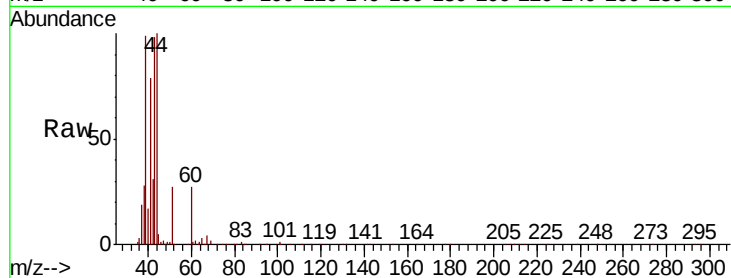
ClientSampleId :

Tot Ion: 41 Resp: 164055

Ion Ratio Lower Upper

41 100

42 50.8 56.2 84.2#



#10

Heptane

Concen: 0.030 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL036325.D

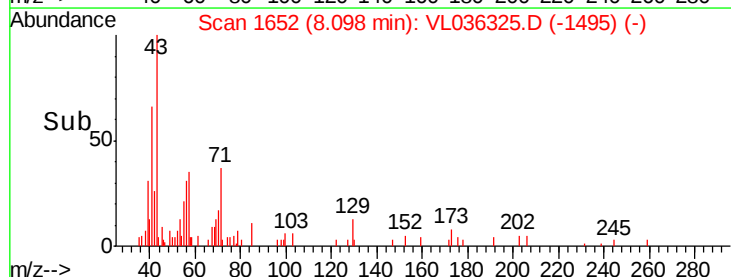
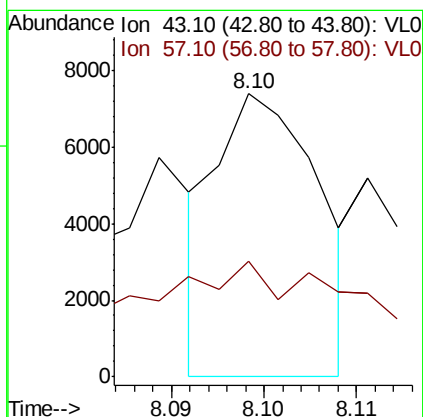
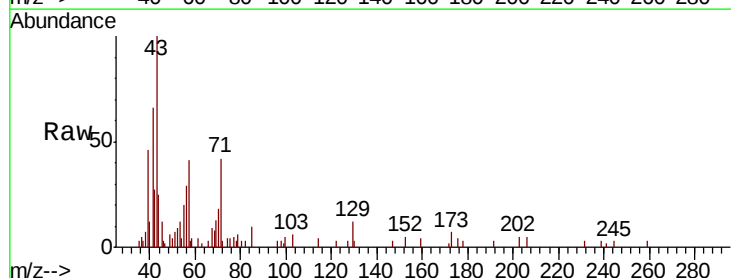
Acq: 10 Feb 2021 19:56

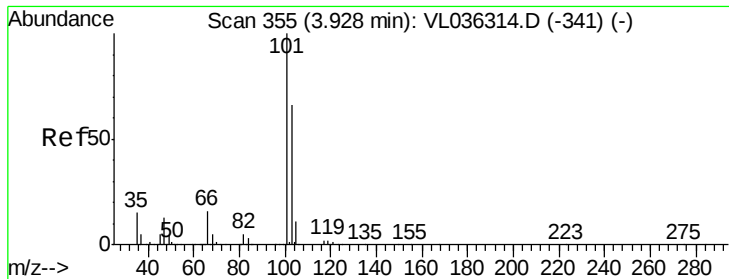
Tgt Ion: 43 Resp: 5671

Ion Ratio Lower Upper

43 100

57 124.4 39.4 59.2#





#11

Trichlorofluoromethane

Concen: 0.197 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

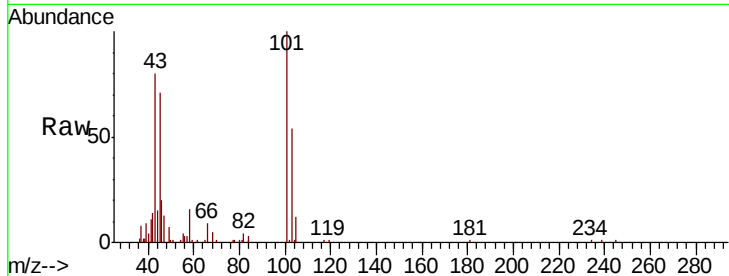
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:101 Resp: 39645

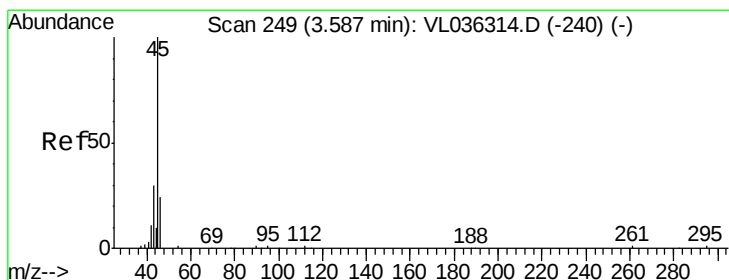
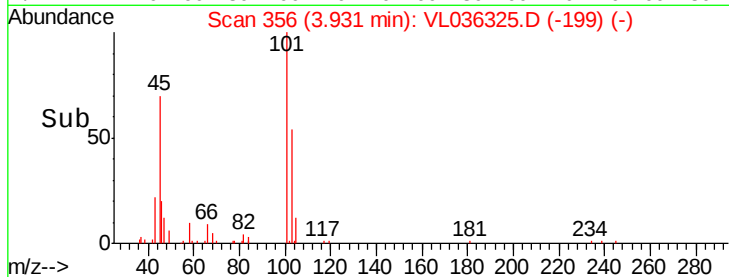
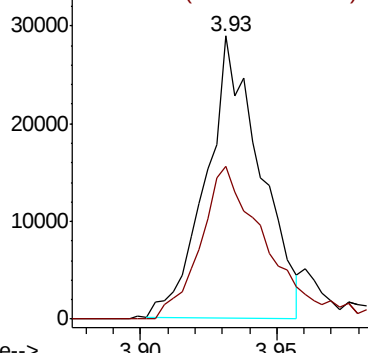
Ion Ratio Lower Upper

101 100

103 54.1 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 730.842 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.03 min

Lab File: VL036325.D

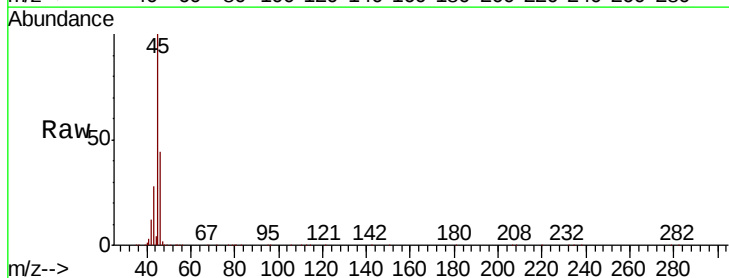
Acq: 10 Feb 2021 19:56

Tgt Ion: 45 Resp: 8758390

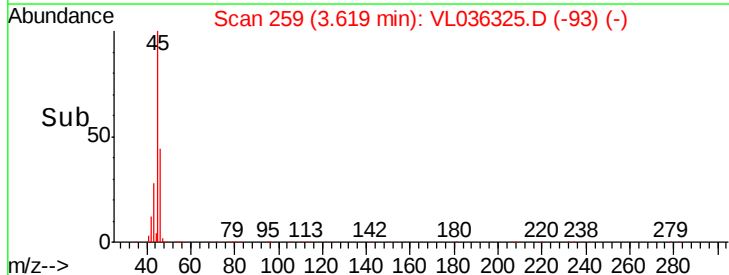
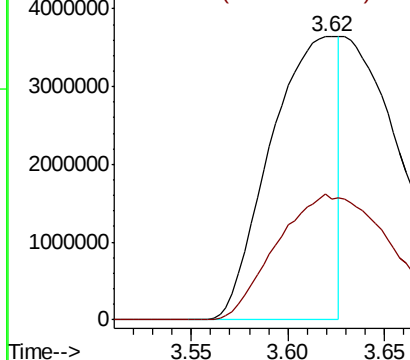
Ion Ratio Lower Upper

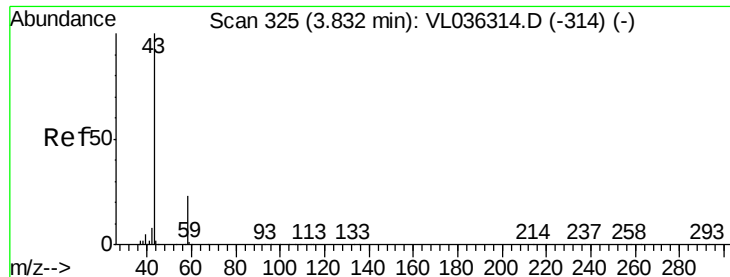
45 100

46 83.5 17.7 70.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.521 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :

MSVOA_L

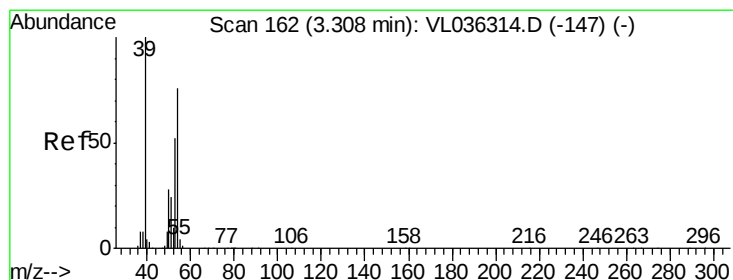
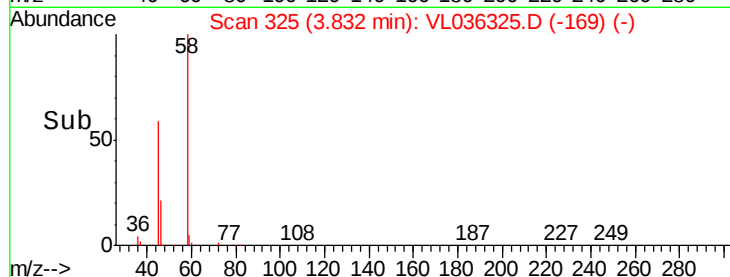
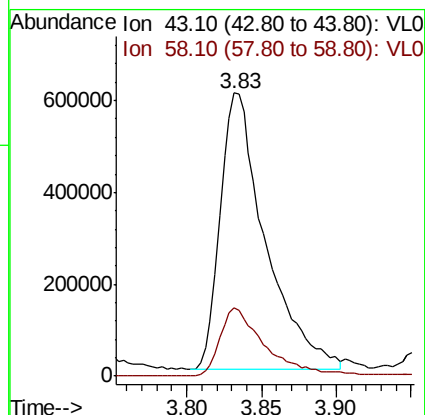
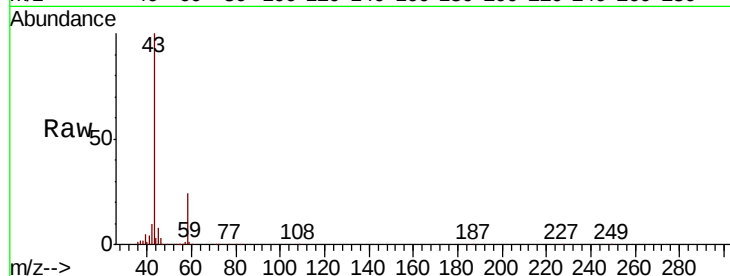
ClientSampleId :

Tot Ion: 43 Resp: 1266229

Ion Ratio Lower Upper

43 100

58 25.3 20.3 30.5



#16

1,3-Butadiene

Concen: 0.163 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.01 min

Lab File: VL036325.D

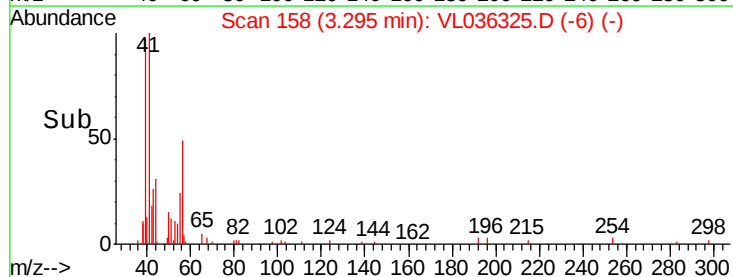
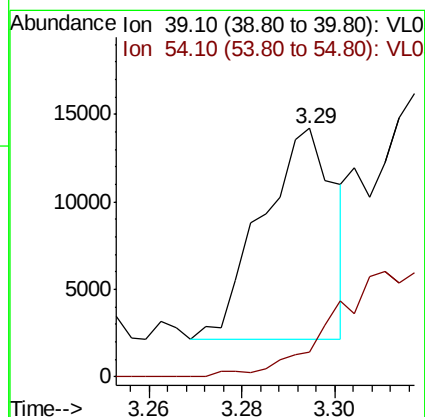
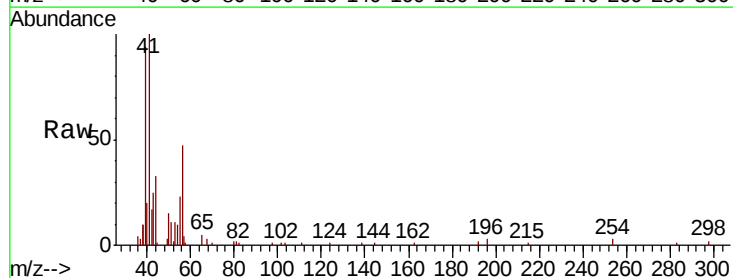
Acq: 10 Feb 2021 19:56

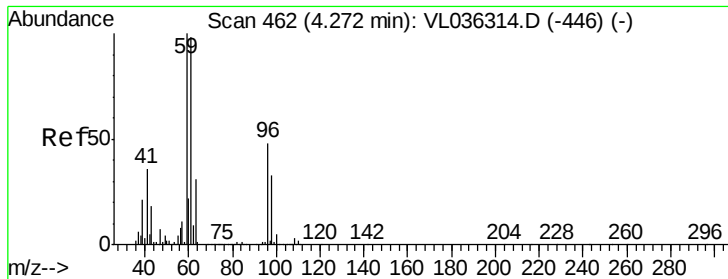
Tgt Ion: 39 Resp: 13152

Ion Ratio Lower Upper

39 100

54 157.6 64.4 96.6#



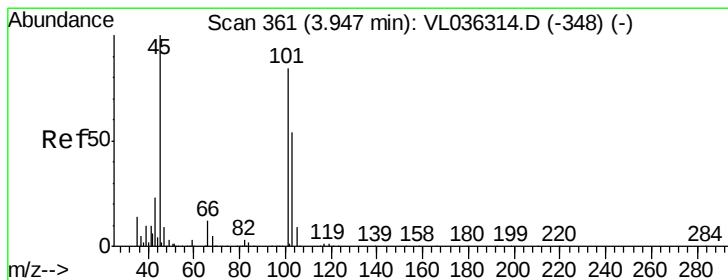
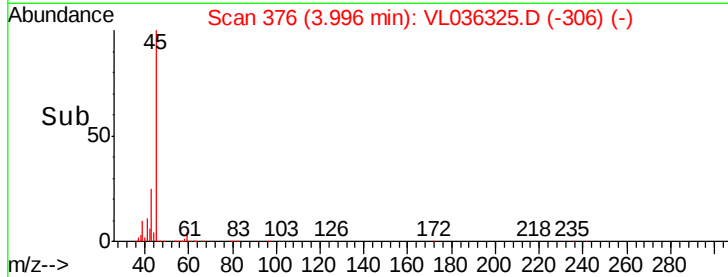
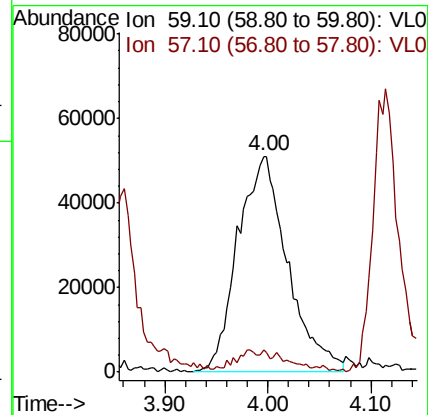
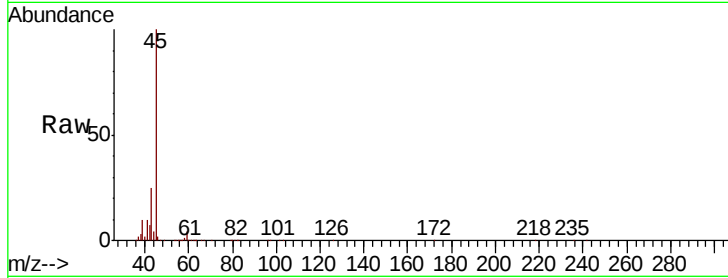


#17

tert-Butyl alcohol
Concen: 1.312 ppbv
RT: 4.00 min Scan# 376
Delta R.T. -0.28 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

Instrument :
MSVOA_L
ClientSampleId :

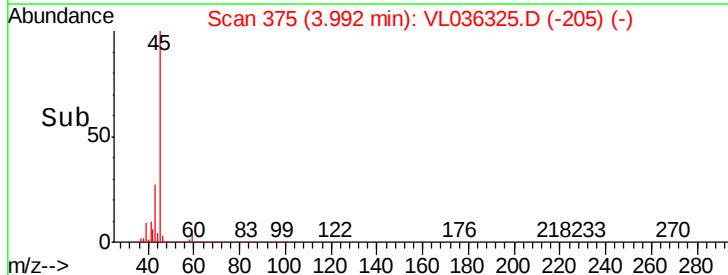
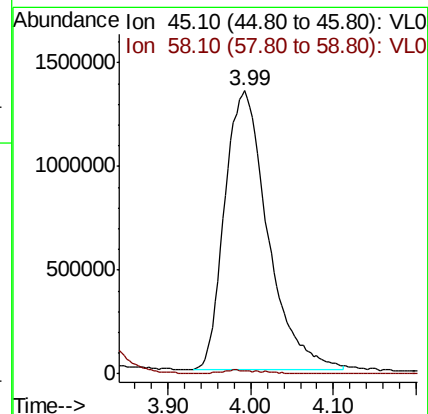
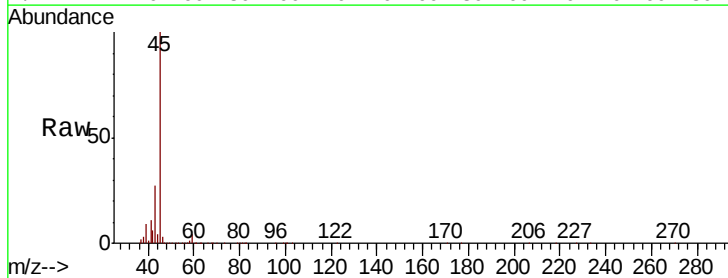
Tot Ion: 59 Resp: 171442
Ion Ratio Lower Upper
59 100
57 10.9 9.0 13.4

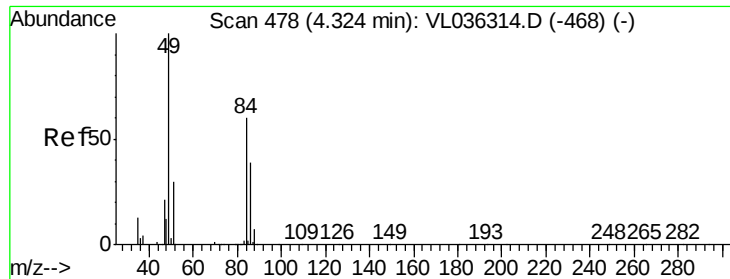


#19

Isopropyl Alcohol
Concen: 52.252 ppbv
RT: 3.99 min Scan# 375
Delta R.T. 0.05 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

Tgt Ion: 45 Resp: 4873677
Ion Ratio Lower Upper
45 100
58 1.4 1.9 2.9#

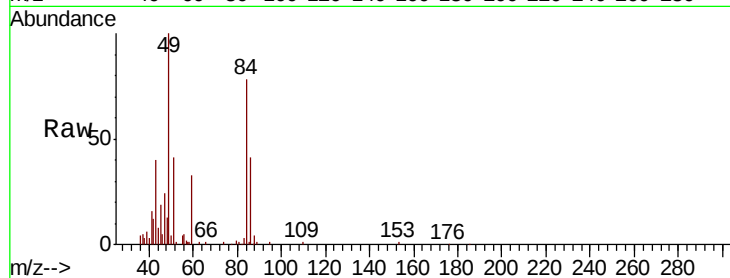




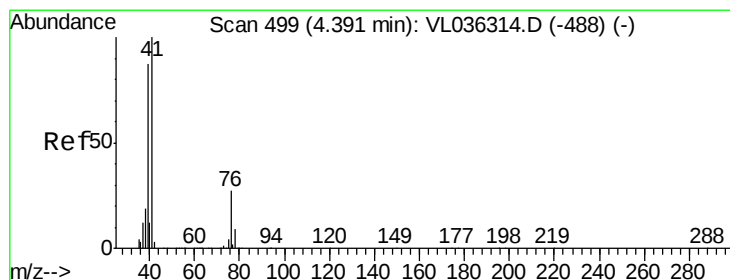
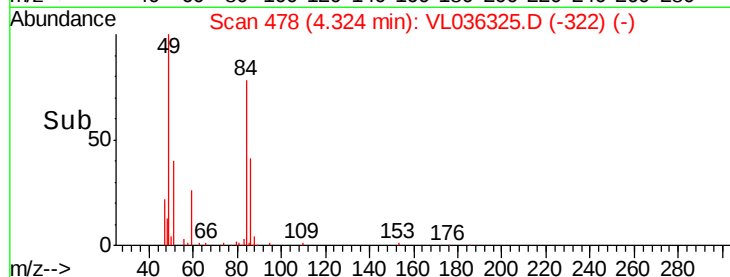
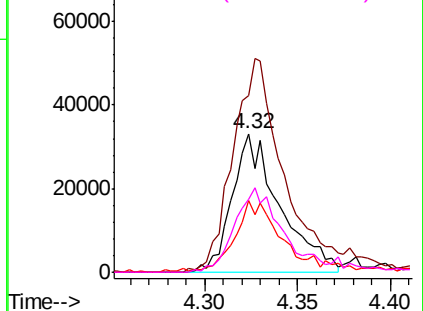
#20
Methylene Chloride
Concen: 1.084 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 58889
Ion Ratio Lower Upper
84 100
49 124.6 133.8 200.8#
51 50.5 41.4 62.0
86 52.8 51.5 77.3

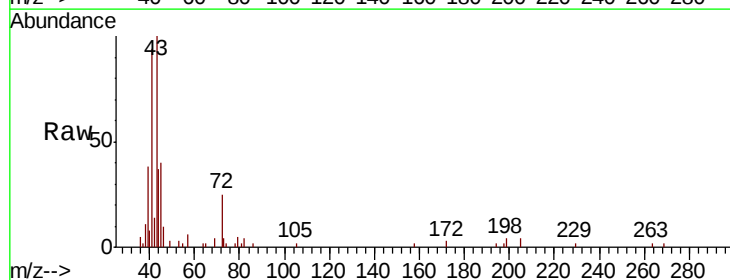


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

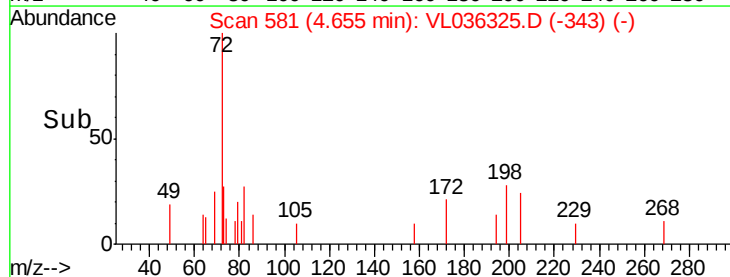
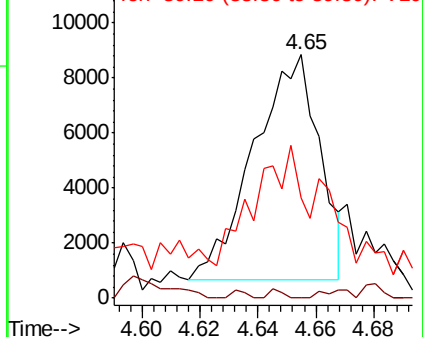


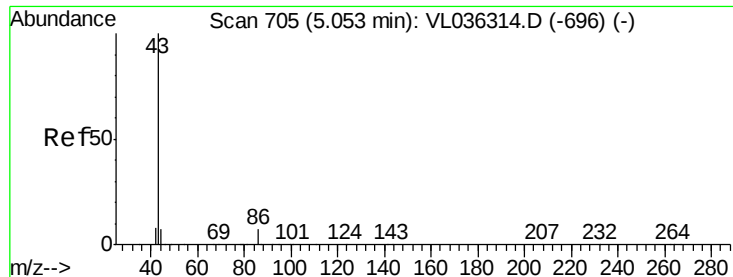
#21
Allyl Chloride
Concen: 0.137 ppbv
RT: 4.65 min Scan# 581
Delta R.T. 0.26 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

Tgt Ion: 41 Resp: 12864
Ion Ratio Lower Upper
41 100
76 142.1 22.0 33.0#
39 0.0 70.2 105.2#



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: 0.587 ppbv

RT: 5.04 min Scan# 701

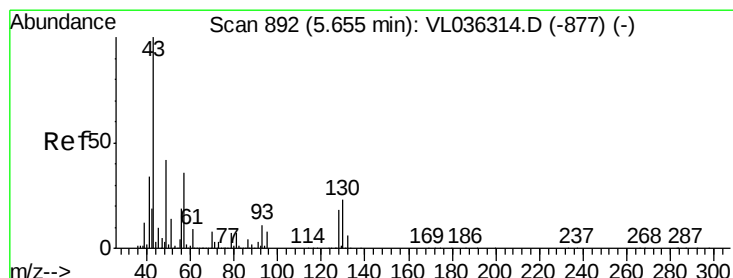
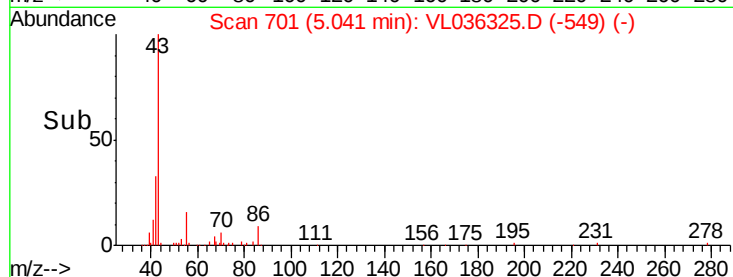
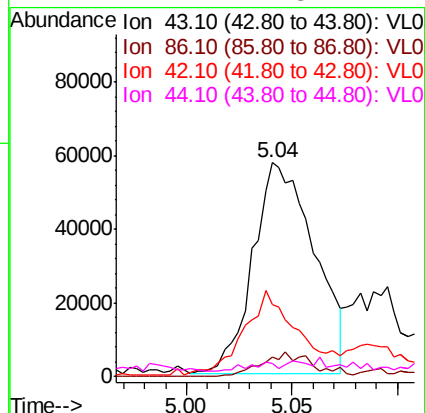
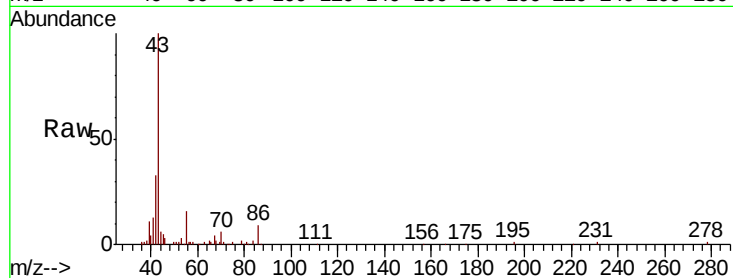
Delta R.T. -0.01 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	116114
Ion	Ratio	Lower	Upper
43	100		
86	9.2	4.8	7.2#
42	32.0	7.4	11.0#
44	2.4	4.8	7.2#



#25

Ethyl Acetate

Concen: 0.325 ppbv

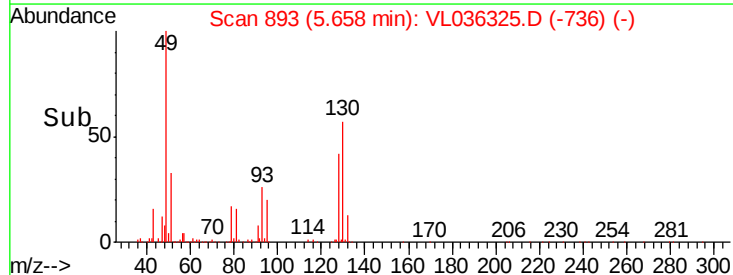
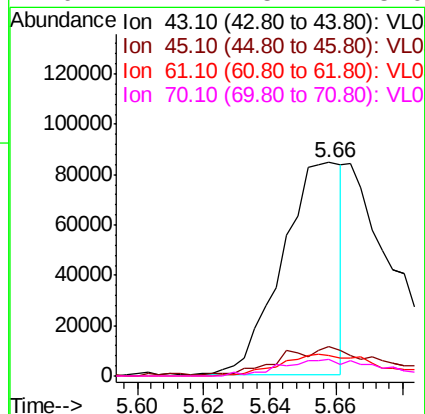
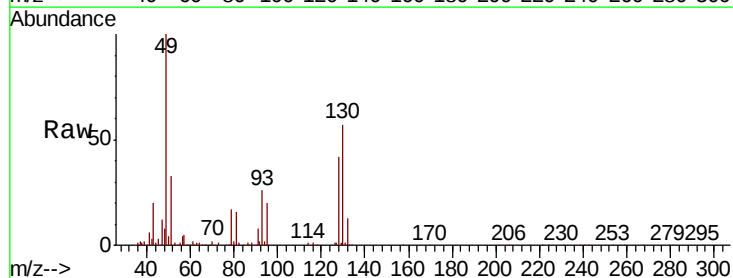
RT: 5.66 min Scan# 893

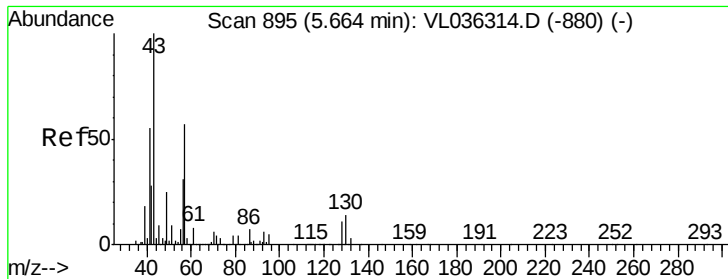
Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Tgt Ion:	43	Resp:	105583
Ion	Ratio	Lower	Upper
43	100		
45	26.5	8.3	12.5#
61	18.8	7.3	10.9#
70	14.2	5.4	8.0#

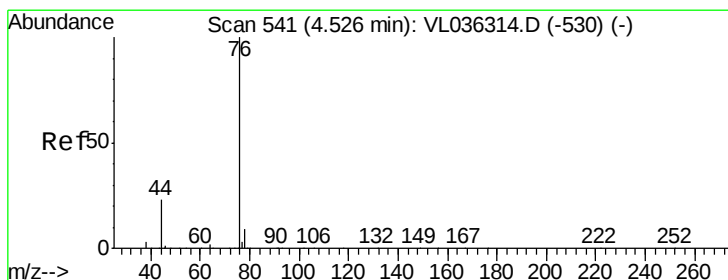
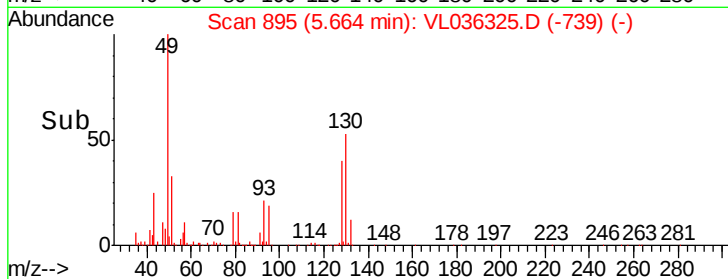
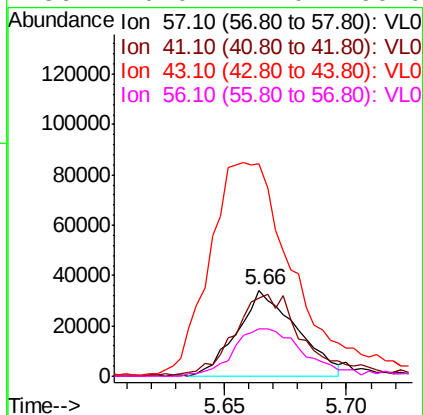
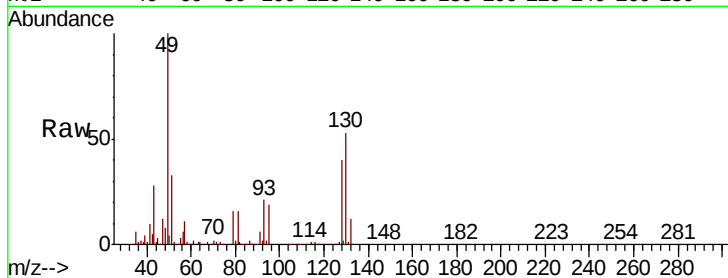




#26
Hexane
Concen: 0.432 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

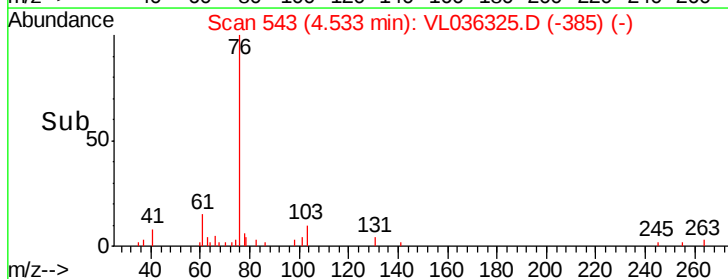
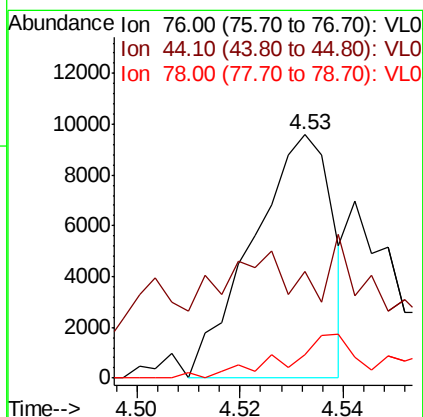
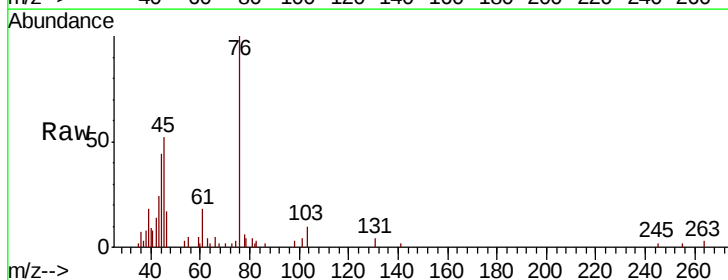
Instrument :
MSVOA_L
ClientSampleId :

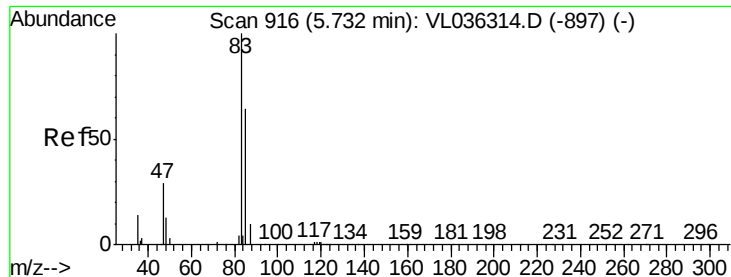
Tot Ion	57	Resp	57755
Ion	Ratio	Lower	Upper
57	100		
41	114.8	81.7	122.5
43	374.6	199.1	298.7#
56	70.0	44.0	66.0#



#27
Carbon Disulfide
Concen: 0.084 ppbv
RT: 4.53 min Scan# 543
Delta R.T. 0.01 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

Tgt Ion	76	Resp	10282
Ion	Ratio	Lower	Upper
76	100		
44	0.0	18.4	27.6#
78	0.0	8.0	12.0#





#29

Chloroform

Concen: 0.090 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :

MSVOA_L

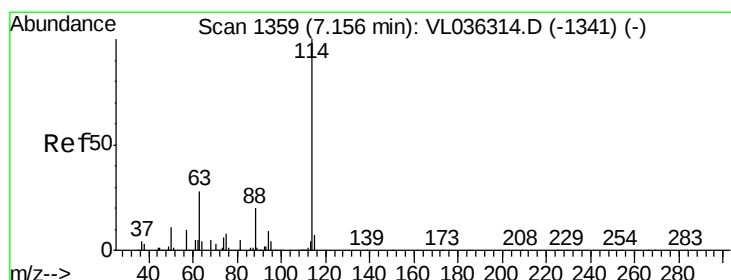
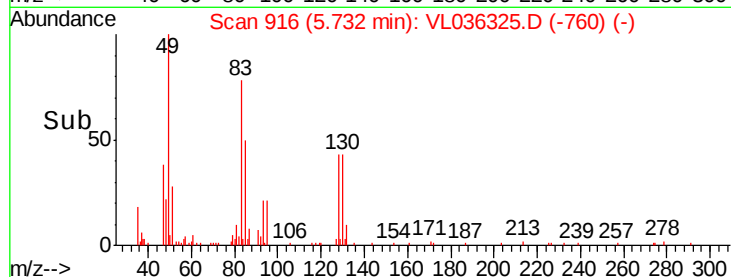
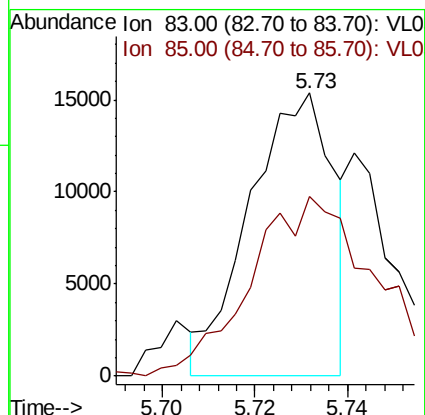
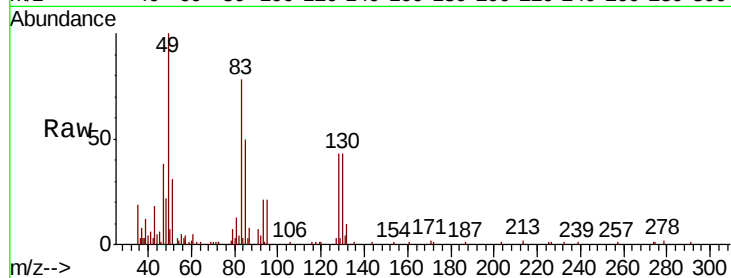
ClientSampleId :

Tot Ion: 83 Resp: 19274

Ion Ratio Lower Upper

83 100

85 66.3 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

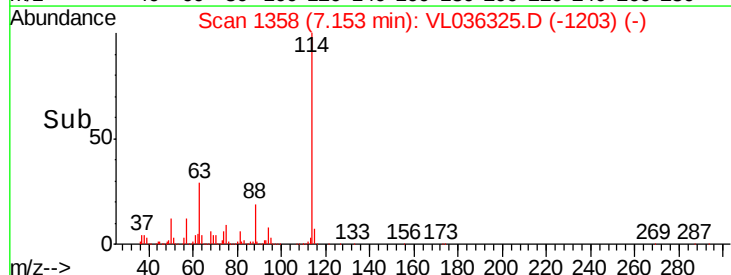
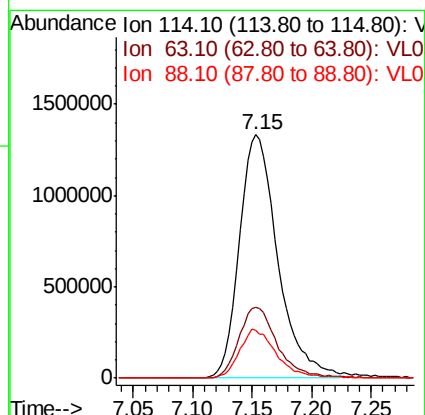
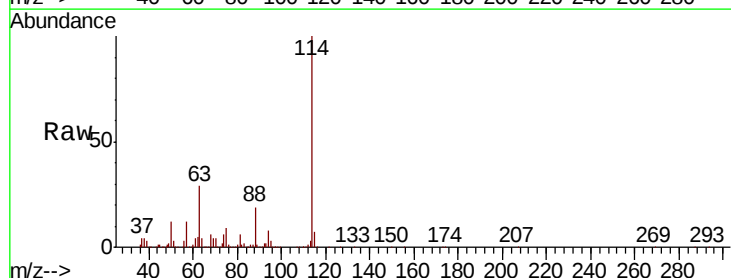
Tgt Ion: 114 Resp: 2981296

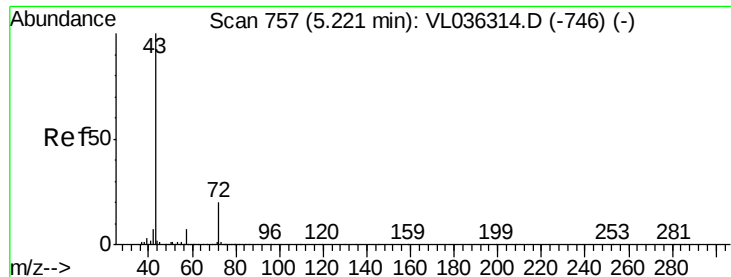
Ion Ratio Lower Upper

114 100

63 29.4 24.1 36.1

88 19.8 16.0 24.0

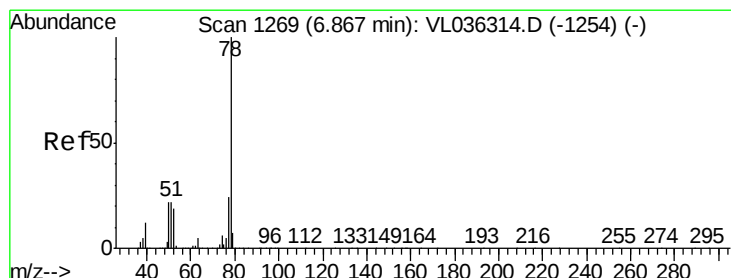
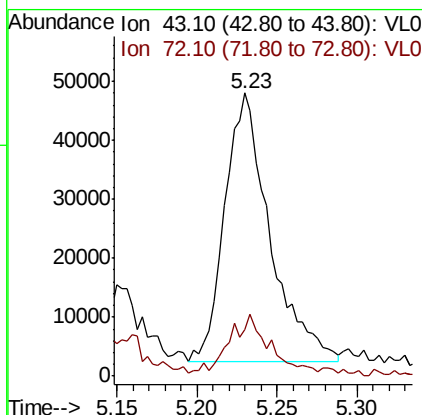
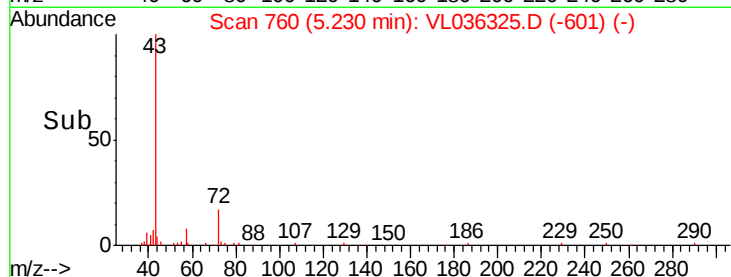
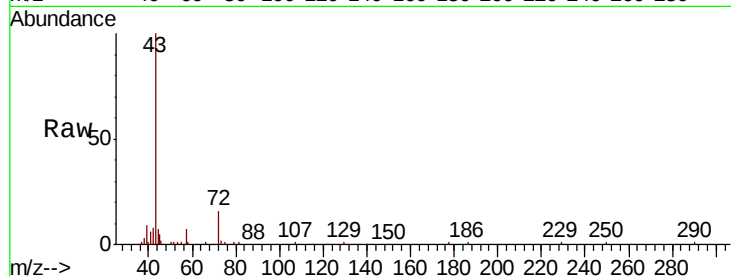




#34
2-Butanone
Concen: 0.443 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.01 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

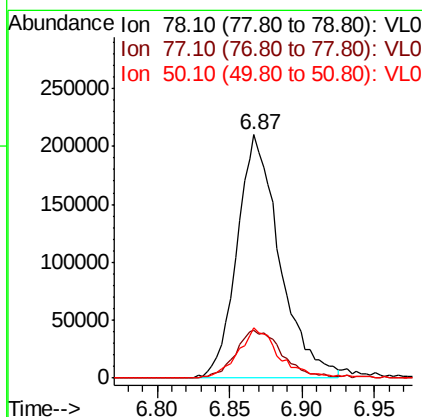
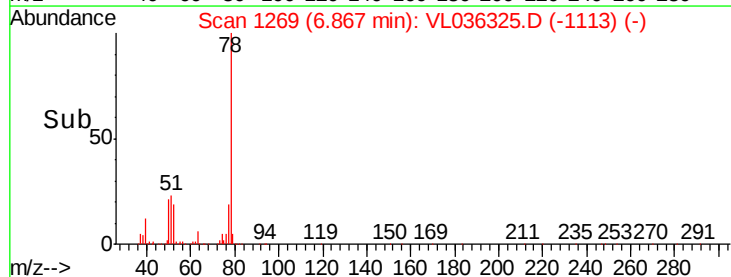
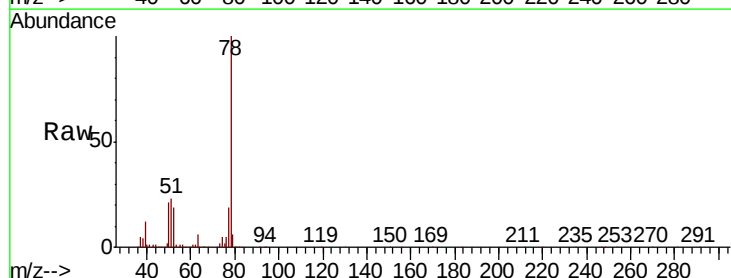
Instrument :
MSVOA_L
ClientSampleId :

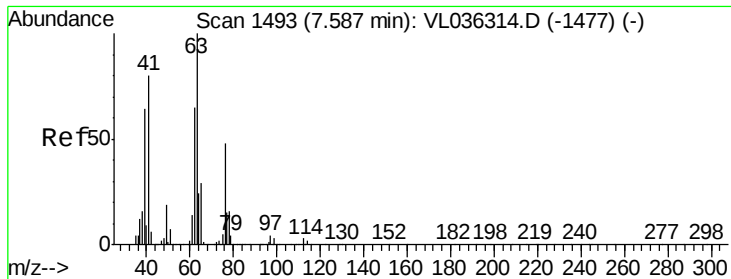
Tot Ion: 43 Resp: 87805
Ion Ratio Lower Upper
43 100
72 23.6 16.7 25.1



#36
Benzene
Concen: 1.689 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VL036325.D
Acq: 10 Feb 2021 19:56

Tgt Ion: 78 Resp: 427630
Ion Ratio Lower Upper
78 100
77 19.4 18.9 28.3
50 20.6 17.3 25.9

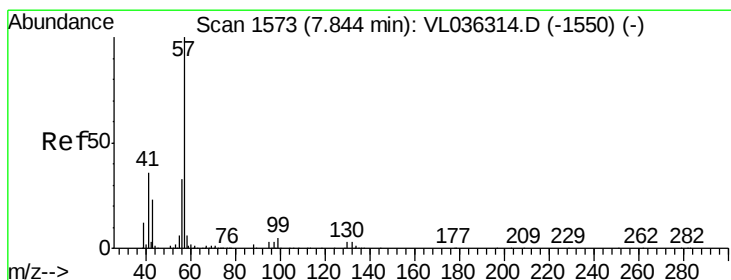
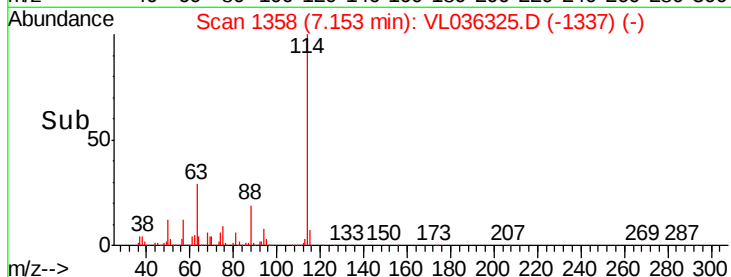
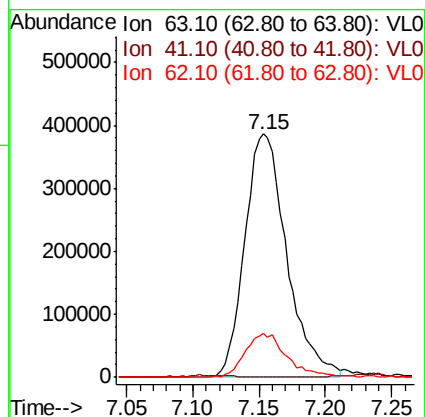
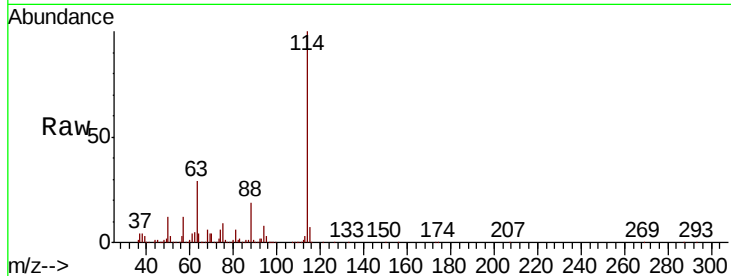




#39
 1,2-Dichloropropane
 Concen: 8.280 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.43 min
 Lab File: VL036325.D
 Acq: 10 Feb 2021 19:56

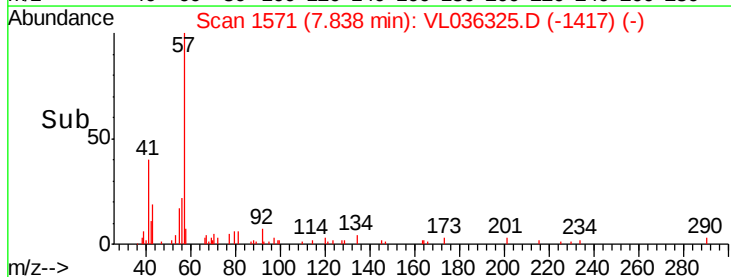
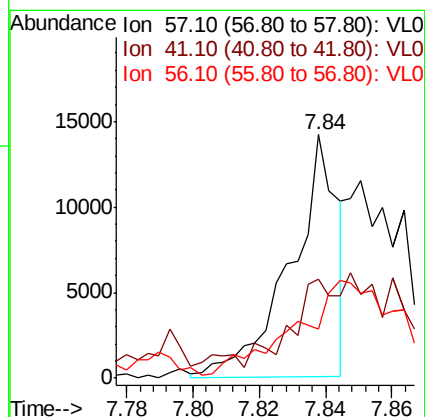
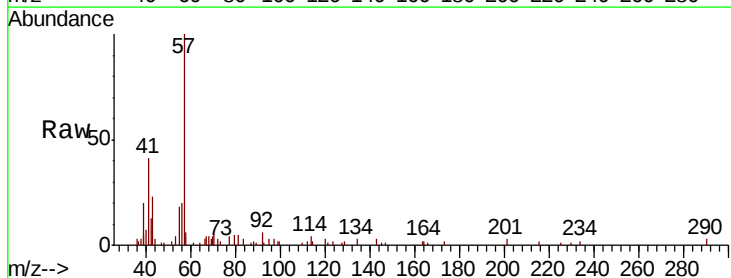
Instrument :
 MSVOA_L
 ClientSampleId :

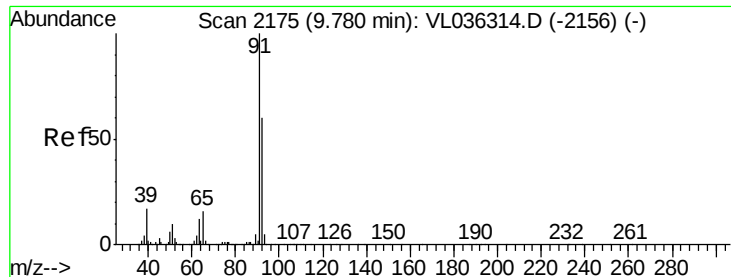
Tot Ion: 63 Resp: 851830
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 18.1 52.3 78.5#



#44
 2,2,4-Trimethylpentane
 Concen: 0.030 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL036325.D
 Acq: 10 Feb 2021 19:56

Tgt Ion: 57 Resp: 13837
 Ion Ratio Lower Upper
 57 100
 41 0.0 28.8 43.2#
 56 0.0 25.8 38.6#





#53

Toluene

Concen: 0.536 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :

MSVOA_L

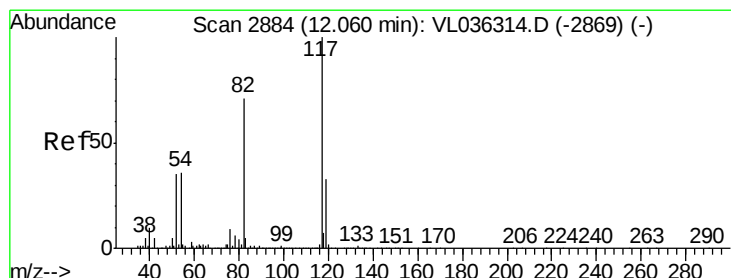
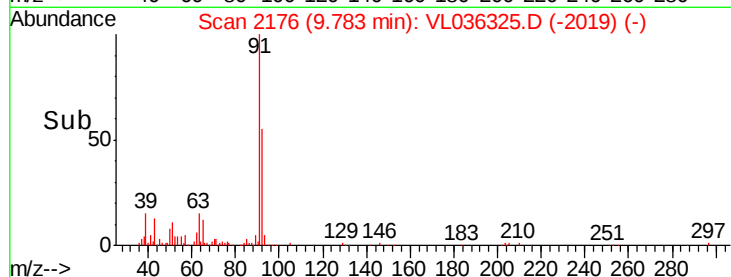
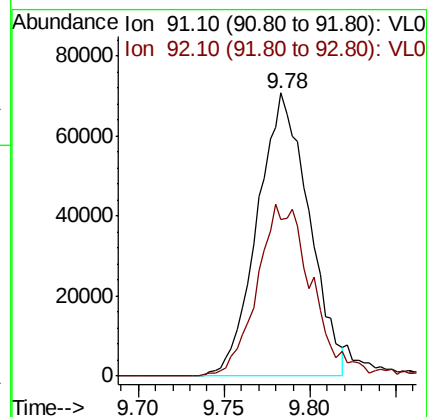
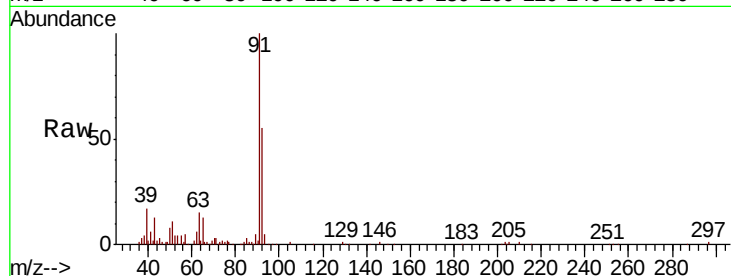
ClientSampleId :

Tot Ion: 91 Resp: 146952

Ion Ratio Lower Upper

91 100

92 65.0 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

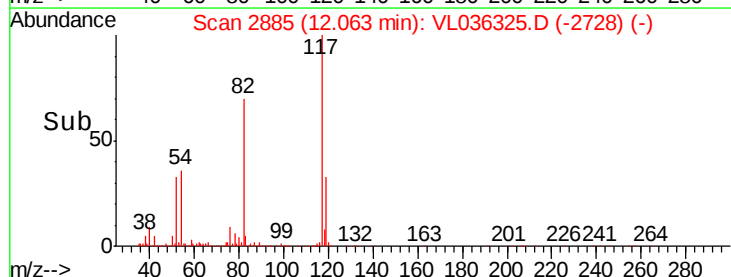
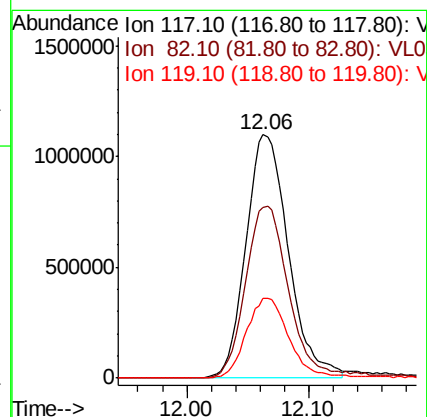
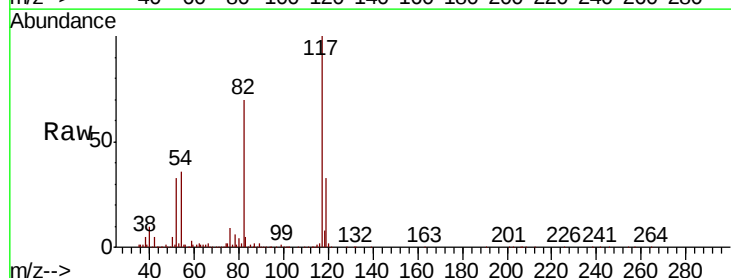
Tgt Ion: 117 Resp: 2638454

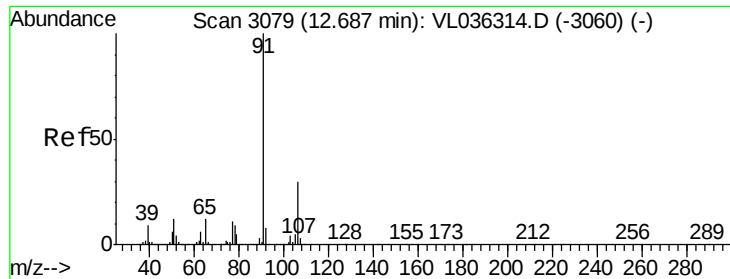
Ion Ratio Lower Upper

117 100

82 73.6 59.1 88.7

119 34.2 46.3 69.5#





#58

Ethyl Benzene

Concen: 0.044 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

Instrument :

MSVOA_L

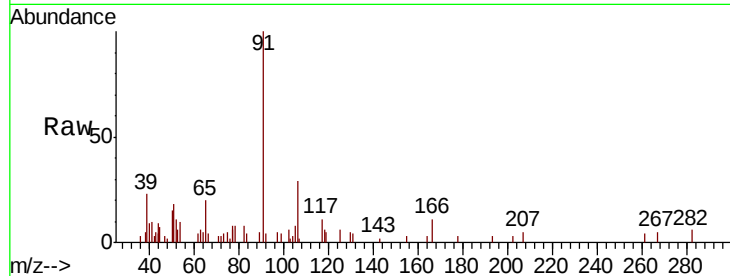
ClientSampleId :

Tot Ion: 91 Resp: 15871

Ion Ratio Lower Upper

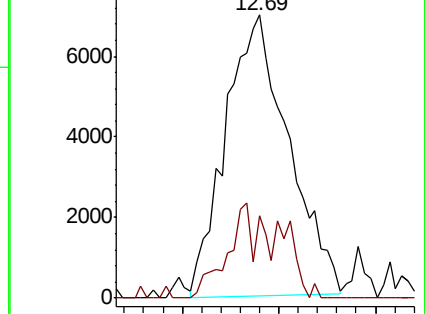
91 100

106 30.0 23.8 35.6

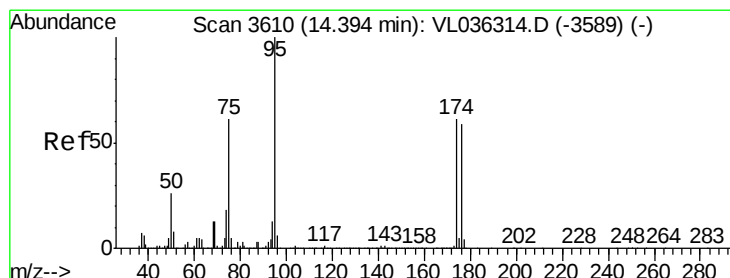
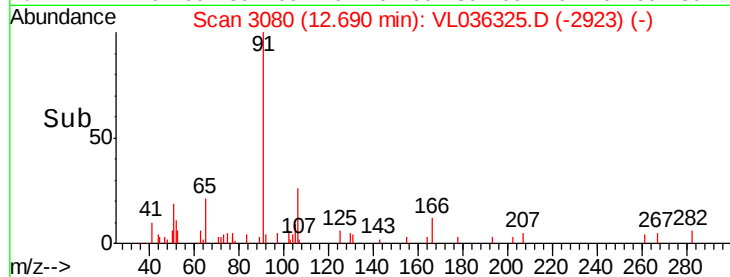


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.523 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL036325.D

Acq: 10 Feb 2021 19:56

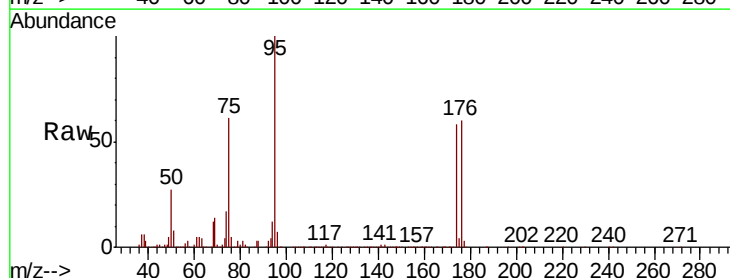
Tgt Ion: 95 Resp: 2067353

Ion Ratio Lower Upper

95 100

174 67.1 49.8 74.6

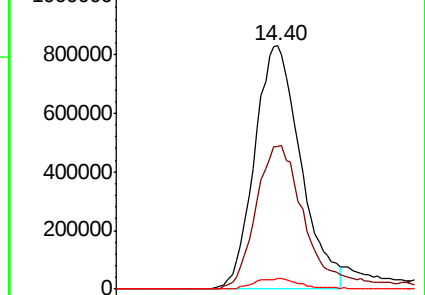
175 4.5 3.7 5.5



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



Time-->

