

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036282.D
 Acq On : 28 Jan 2021 21:52
 Operator : SY/AP
 Sample : M1245-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 29 02:28:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1534839	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3364150	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3082794	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2635859	10.33	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

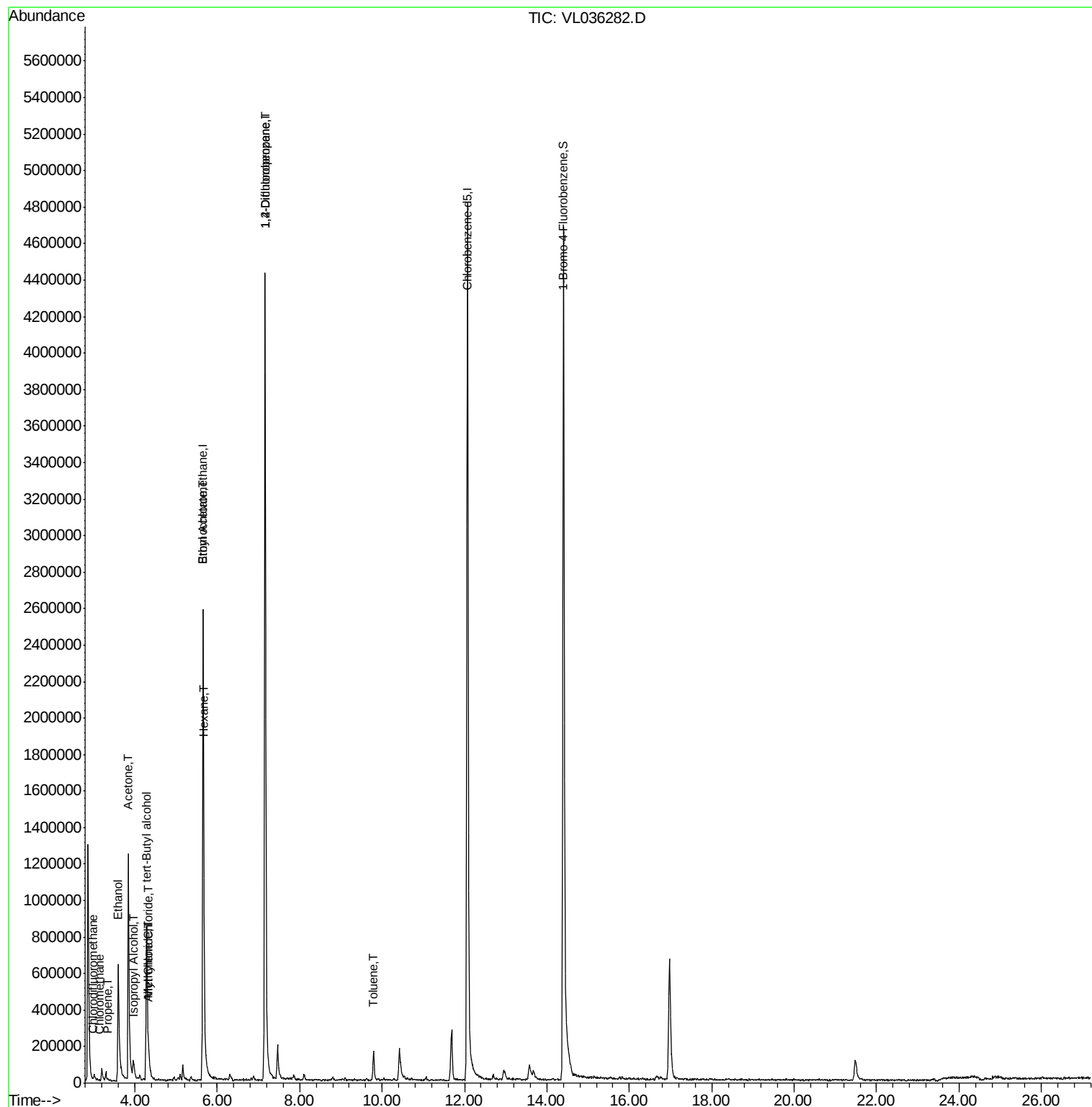
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	6296	0.033	ppbv	98
4) Chloromethane	3.13	50	2840	0.030	ppbv #	40
9) Propene	3.34	41	4414	0.049	ppbv	86
13) Ethanol	3.59	45	805744	57.165	ppbv	92
15) Acetone	3.84	43	1631021	8.677	ppbv	99
17) tert-Butyl alcohol	4.28	59	993363	6.404	ppbv	99
19) Isopropyl Alcohol	3.98	45	13370	0.118	ppbv #	93
20) Methylene Chloride	4.34	84	4192	0.070	ppbv #	49
21) Allyl Chloride	4.34	41	19685	0.192	ppbv #	17
25) Ethyl Acetate	5.66	43	18057	0.048	ppbv #	80
26) Hexane	5.68	57	17669	0.112	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	986221	7.880	ppbv #	21
53) Toluene	9.79	91	120073	0.348	ppbv	95

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
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QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL036282.D

Acq: 28 Jan 2021 21:52

Instrument :
MSVOA_L
ClientSampled :

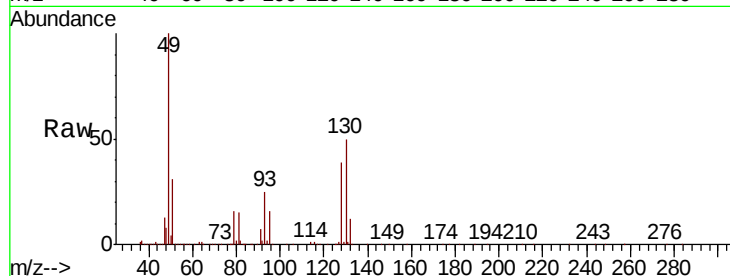
Tot Ion: 49 Resp: 1534839

Ion Ratio Lower Upper

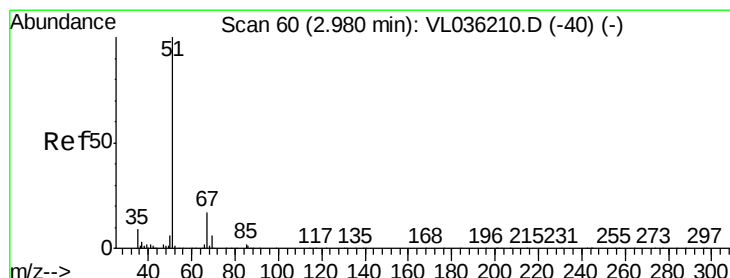
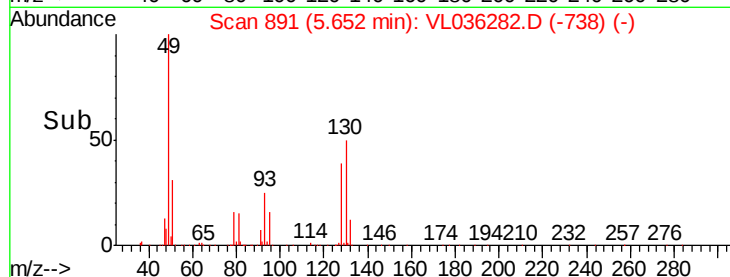
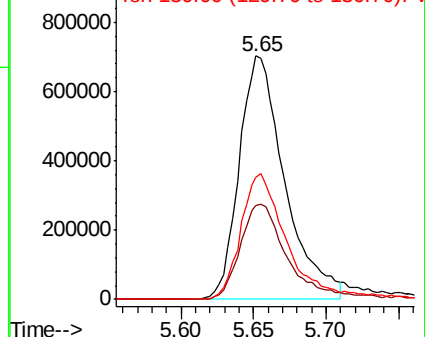
49 100

128 42.1 20.1 60.2

130 53.0 25.3 75.9



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: 0.033 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL036282.D

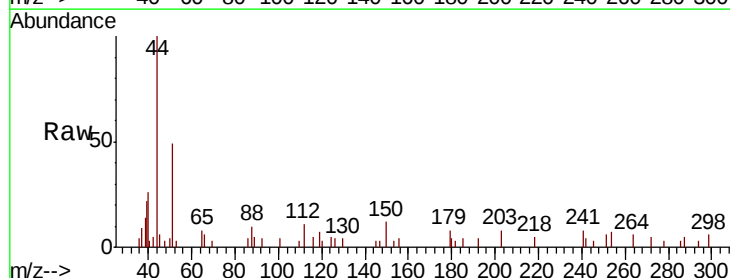
Acq: 28 Jan 2021 21:52

Tgt Ion: 51 Resp: 6296

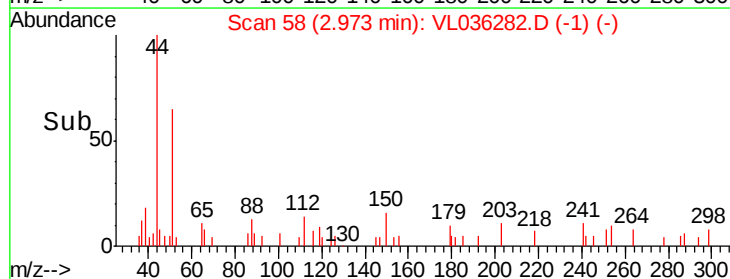
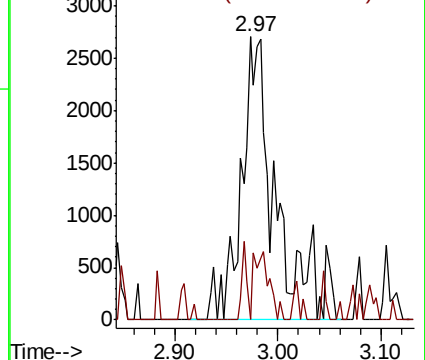
Ion Ratio Lower Upper

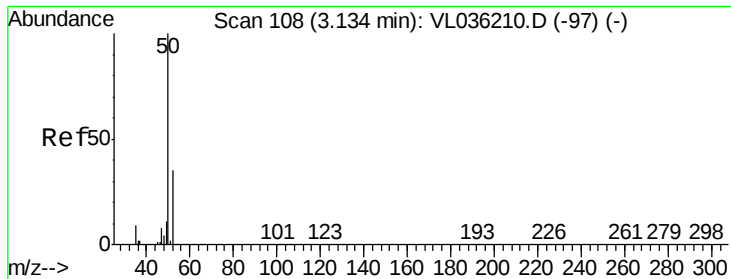
51 100

67 16.8 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.030 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036282.D

Acq: 28 Jan 2021 21:52

Instrument :

MSVOA_L

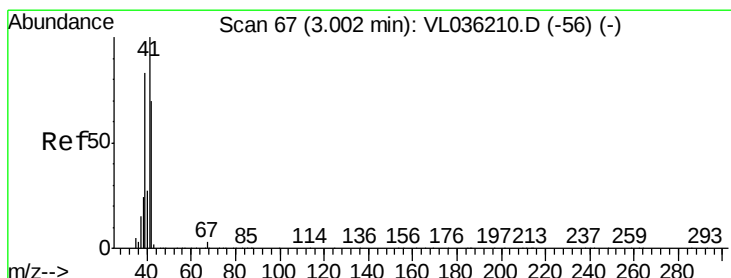
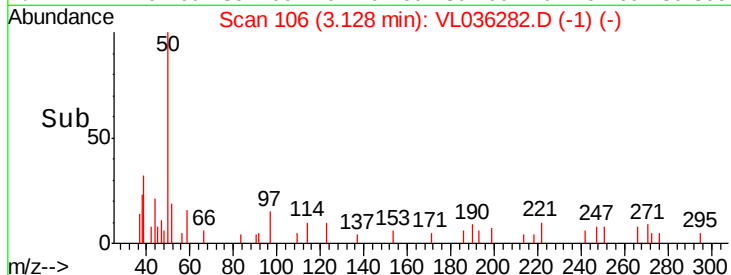
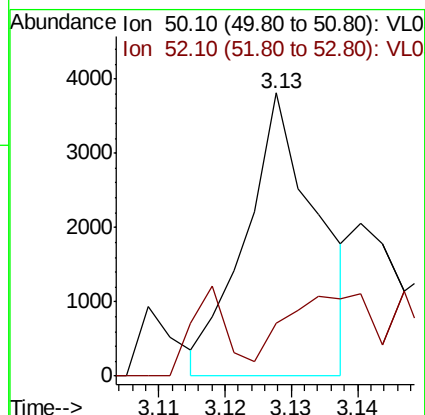
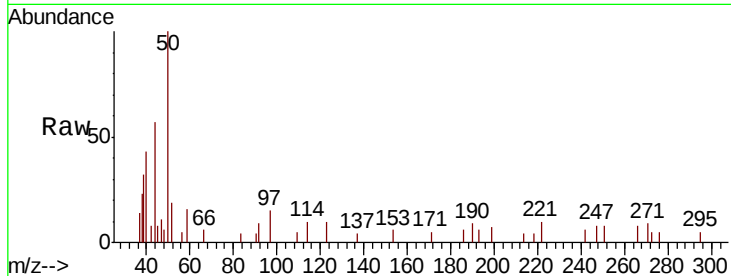
ClientSampleId :

Tot Ion: 50 Resp: 2840

Ion Ratio Lower Upper

50 100

52 0.3 27.8 41.8#



#9

Propene

Concen: 0.049 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.34 min

Lab File: VL036282.D

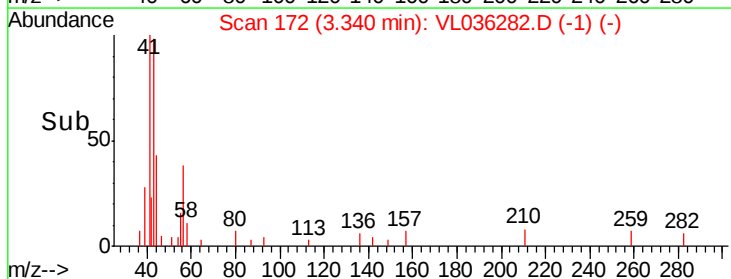
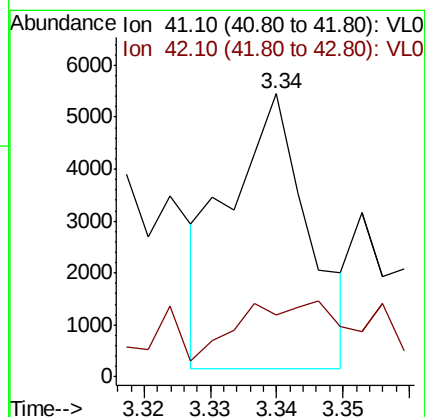
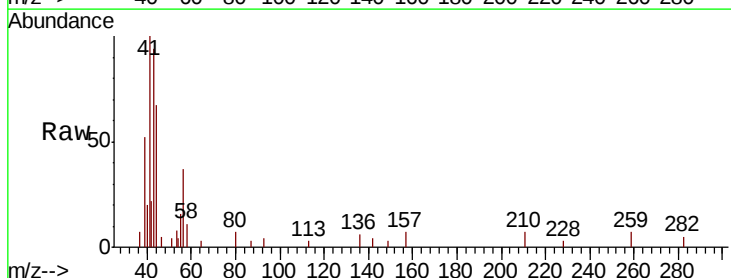
Acq: 28 Jan 2021 21:52

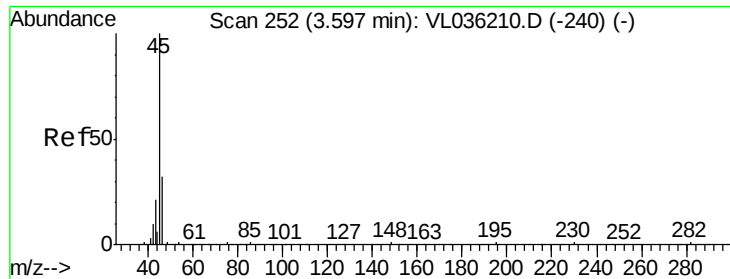
Tgt Ion: 41 Resp: 4414

Ion Ratio Lower Upper

41 100

42 59.6 57.1 85.7

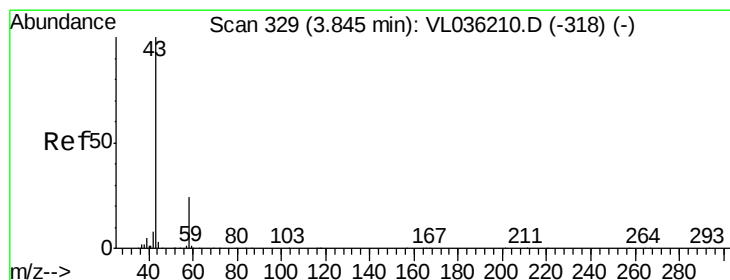
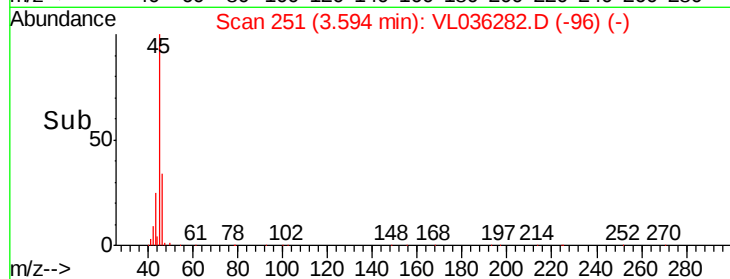
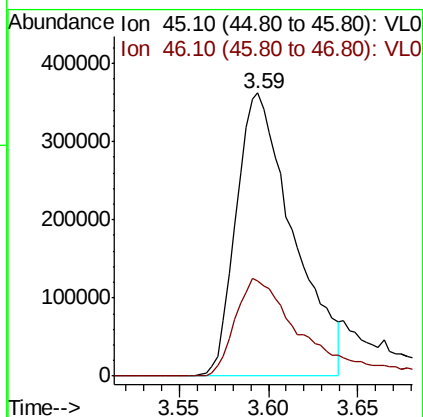
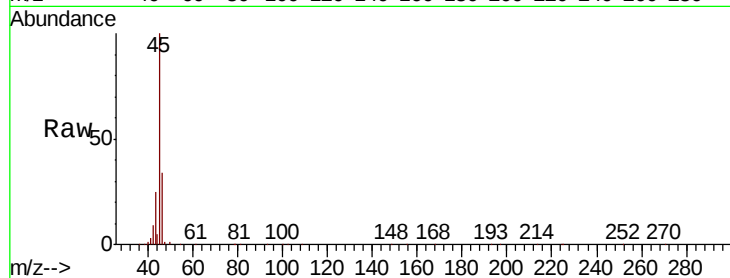




#13
Ethanol
Concen: 57.165 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.00 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

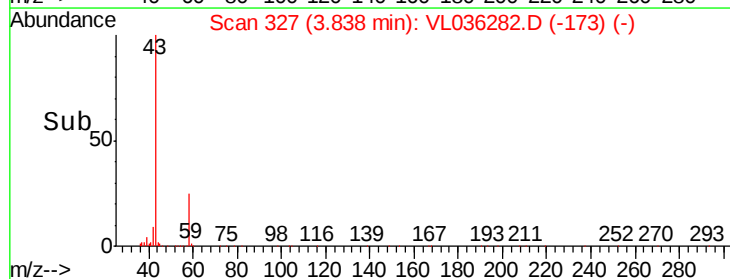
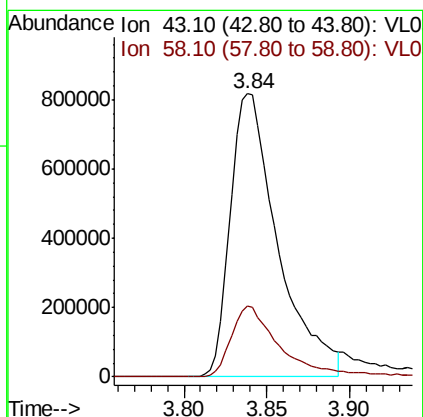
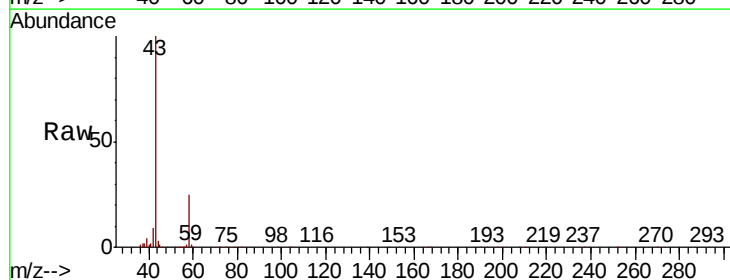
Instrument :
MSVOA_L
ClientSampleId :

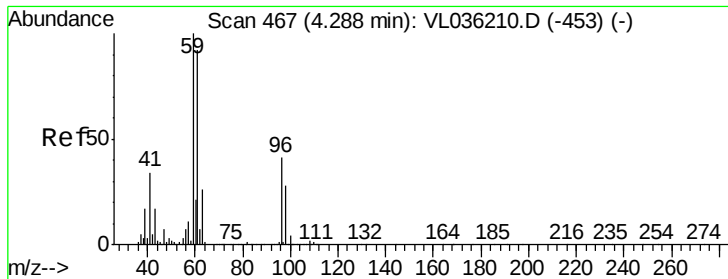
Tot Ion: 45 Resp: 805744
Ion Ratio Lower Upper
45 100
46 42.9 19.2 77.0



#15
Acetone
Concen: 8.677 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

Tgt Ion: 43 Resp: 1631021
Ion Ratio Lower Upper
43 100
58 26.8 20.9 31.3



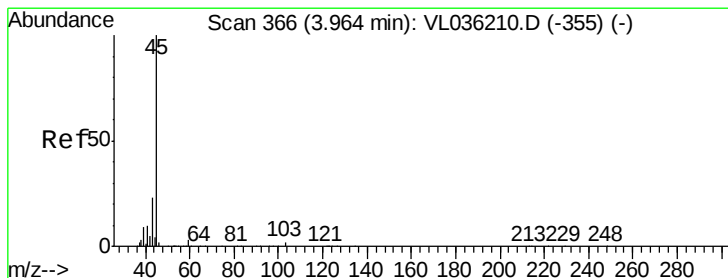
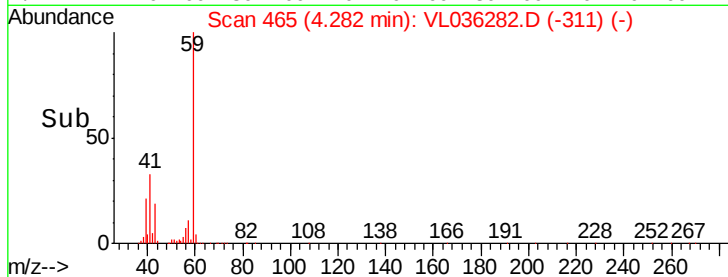
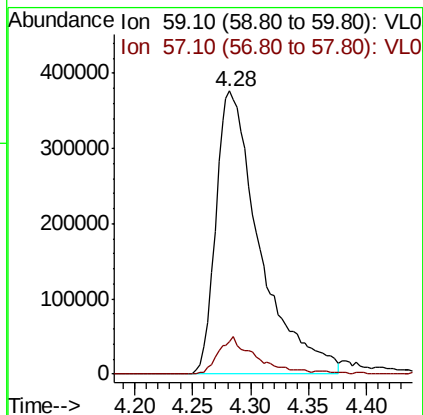
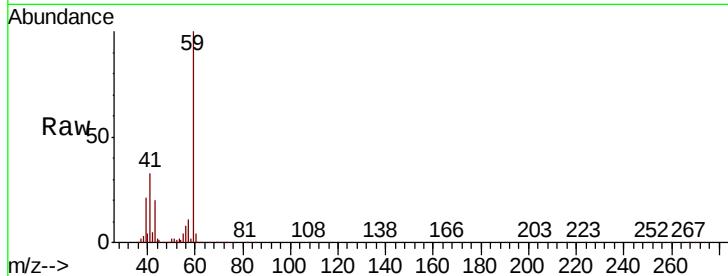


#17

tert-Butyl alcohol
Concen: 6.404 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.01 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :

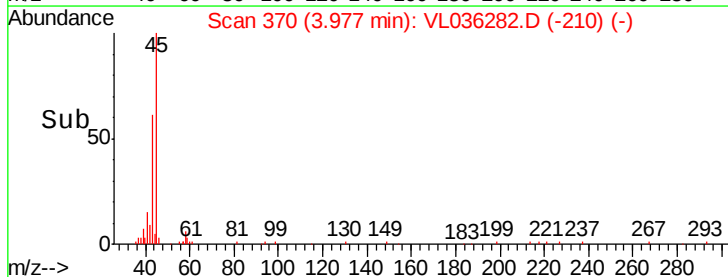
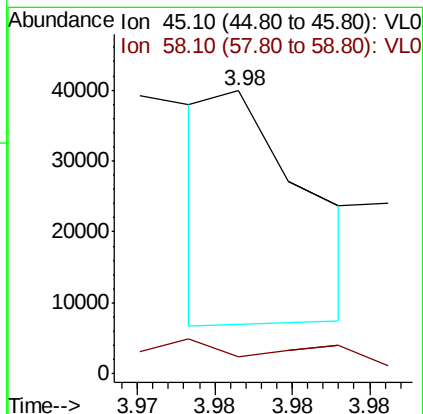
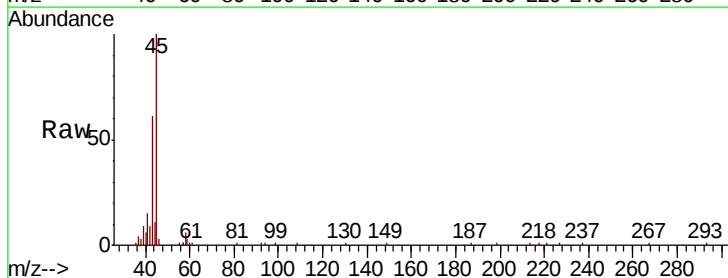
Tot Ion: 59 Resp: 993363
Ion Ratio Lower Upper
59 100
57 12.1 9.2 13.8

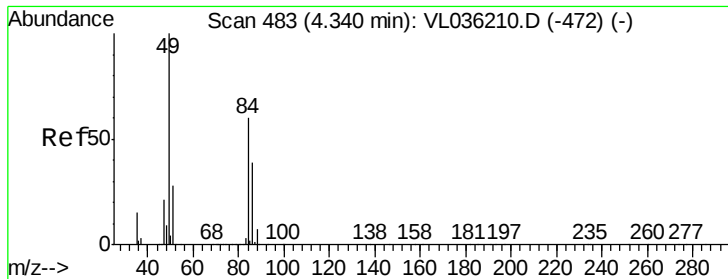


#19

Isopropyl Alcohol
Concen: 0.118 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

Tgt Ion: 45 Resp: 13370
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#

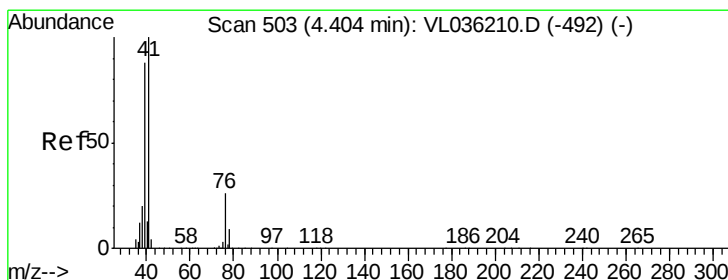
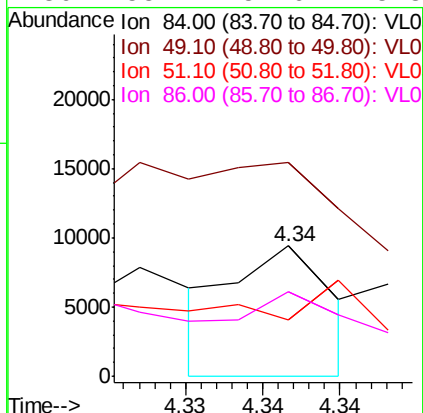
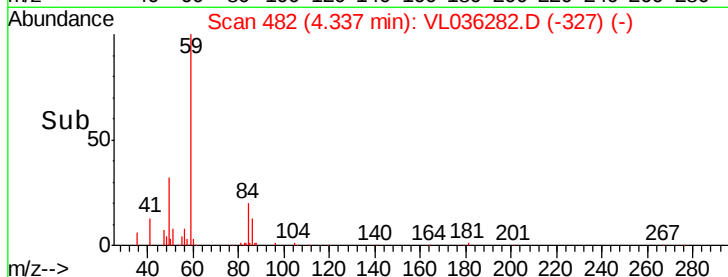
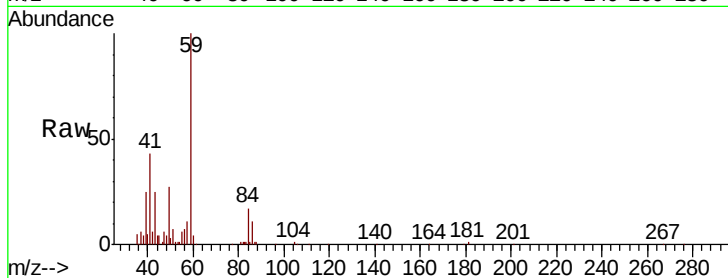




#20
Methvlene Chloride
Concen: 0.070 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

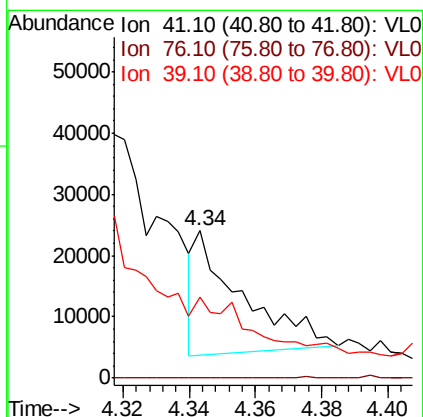
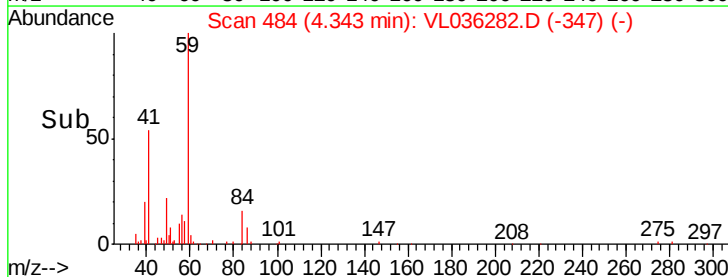
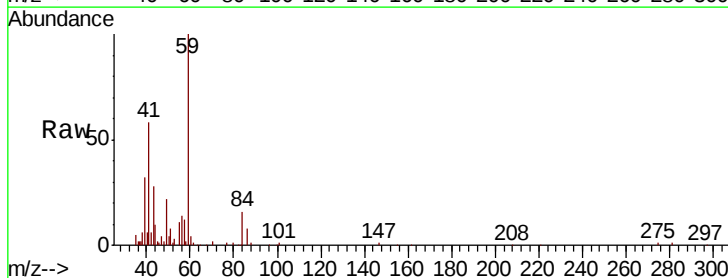
Instrument :
MSVOA_L
ClientSampled :

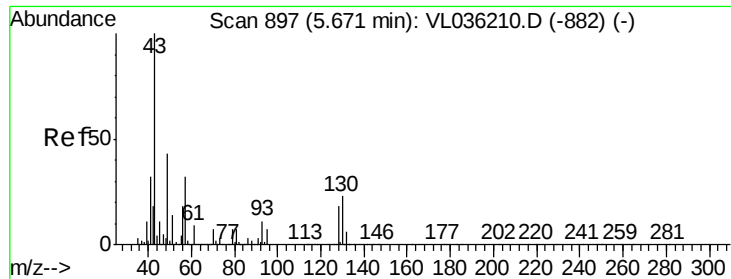
Tot Ion: 84 Resp: 4192
Ion Ratio Lower Upper
84 100
49 85.4 134.1 201.1#
51 0.0 37.4 56.0#
86 55.7 52.6 78.8



#21
Allyl Chloride
Concen: 0.192 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.06 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

Tgt Ion: 41 Resp: 19685
Ion Ratio Lower Upper
41 100
76 1.2 20.5 30.7#
39 0.0 67.8 101.8#

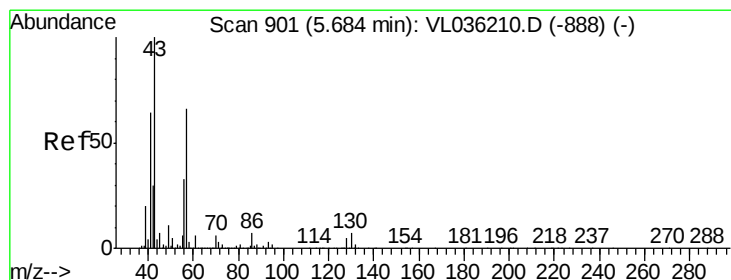
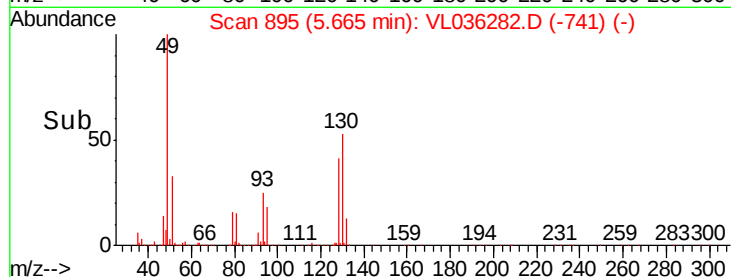
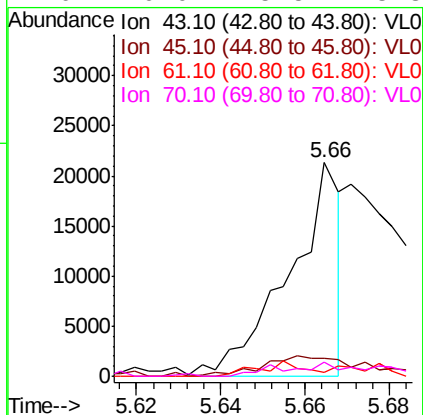
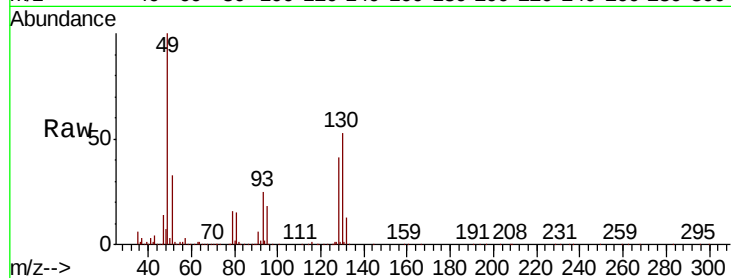




#25
Ethyl Acetate
Concen: 0.048 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

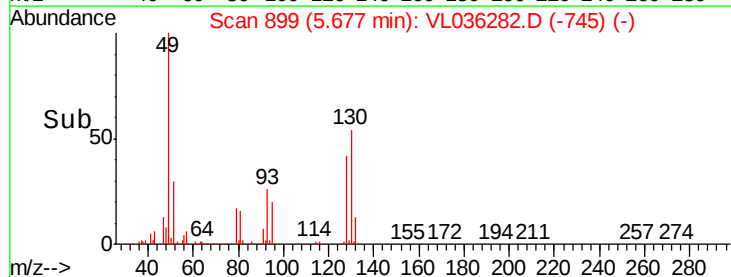
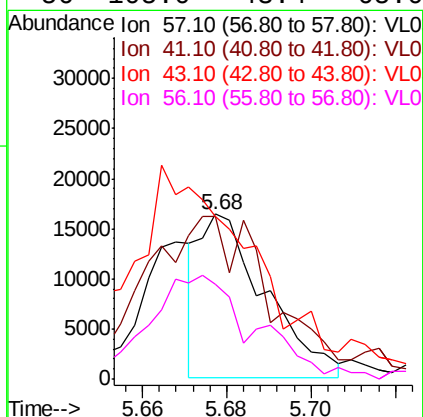
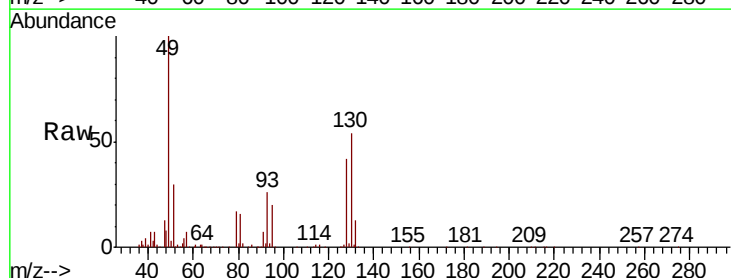
Instrument :
MSVOA_L
ClientSampleId :

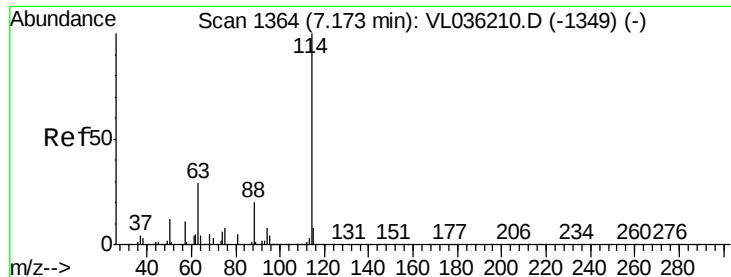
Tot Ion:	43	Resp:	18057
Ion	Ratio	Lower	Upper
43	100		
45	22.7	8.3	12.5#
61	10.9	7.4	11.2
70	0.0	5.5	8.3#



#26
Hexane
Concen: 0.112 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036282.D
Acq: 28 Jan 2021 21:52

Tgt Ion:	57	Resp:	17669
Ion	Ratio	Lower	Upper
57	100		
41	205.9	83.0	124.6#
43	0.0	202.4	303.6#
56	105.0	43.4	65.0#

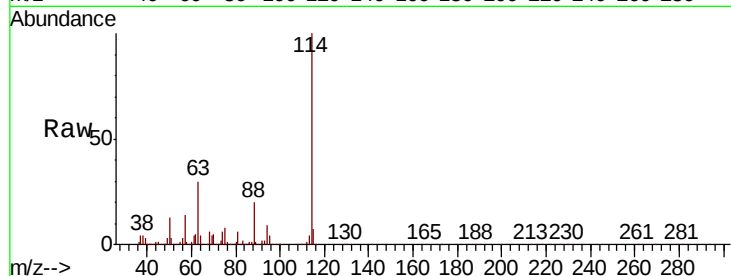




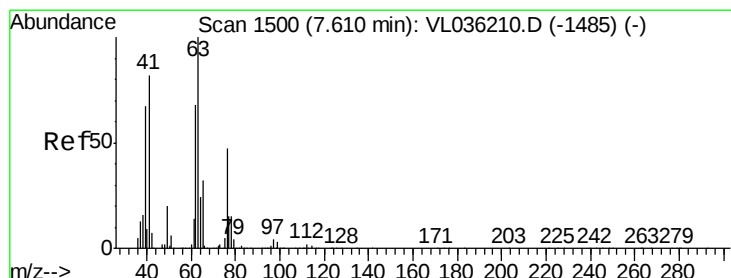
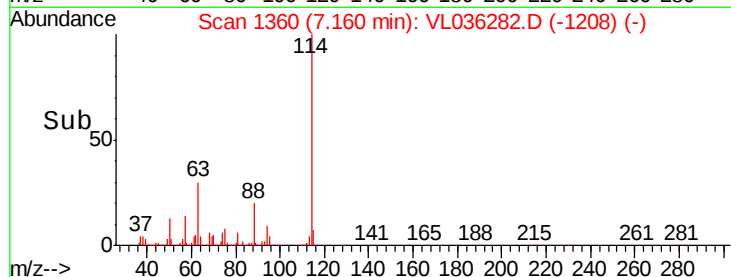
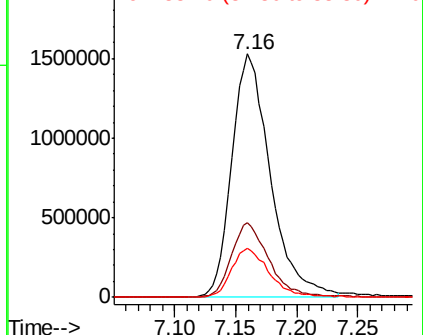
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.01 min
 Lab File: VL036282.D
 Acq: 28 Jan 2021 21:52

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3364150
 Ion Ratio Lower Upper
 114 100
 63 30.4 24.7 37.1
 88 20.2 16.6 24.8

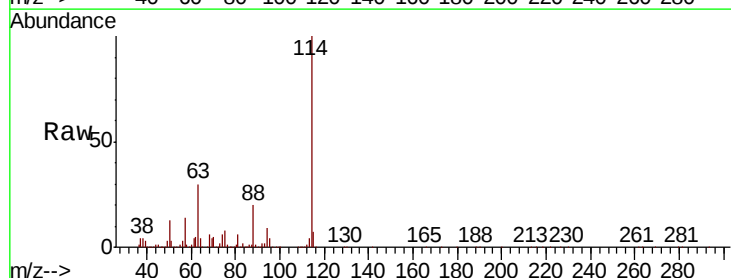


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

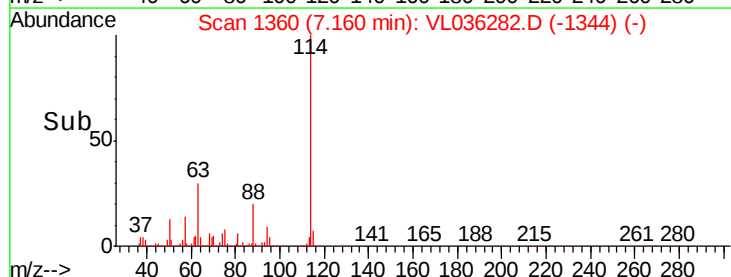
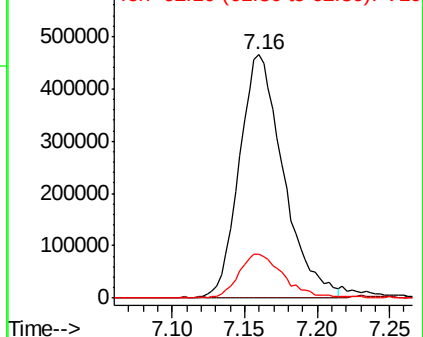


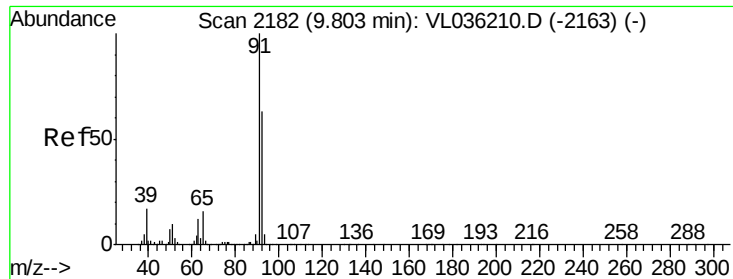
#39
 1,2-Dichloropropane
 Concen: 7.880 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.45 min
 Lab File: VL036282.D
 Acq: 28 Jan 2021 21:52

Tgt Ion: 63 Resp: 986221
 Ion Ratio Lower Upper
 63 100
 41 0.0 66.1 99.1#
 62 17.8 54.8 82.2#



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





#53

Toluene

Concen: 0.348 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL036282.D

Acq: 28 Jan 2021 21:52

Instrument :

MSVOA_L

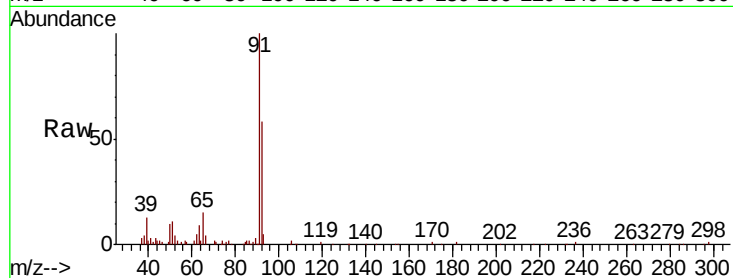
ClientSampleId :

Tot Ion: 91 Resp: 120073

Ion Ratio Lower Upper

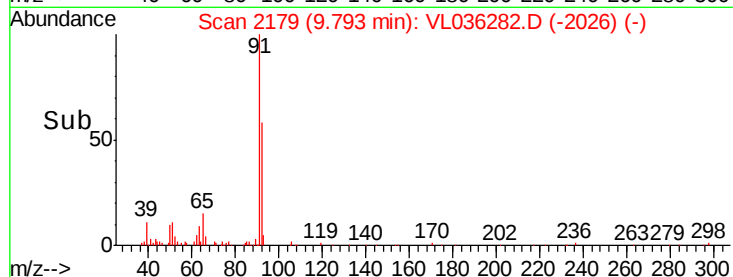
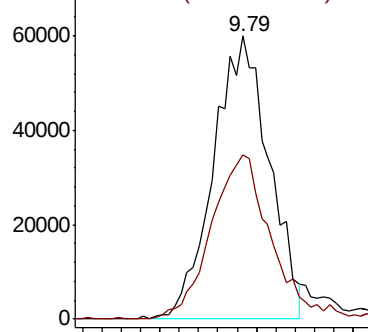
91 100

92 64.1 48.5 72.7

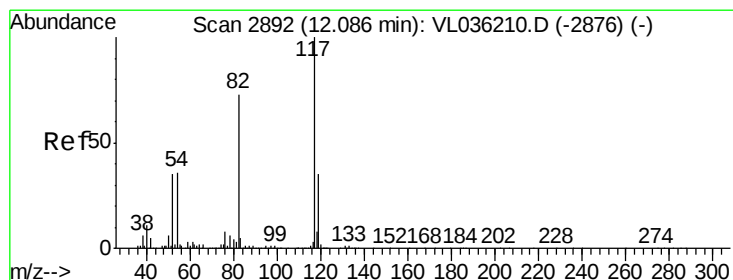


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL036282.D

Acq: 28 Jan 2021 21:52

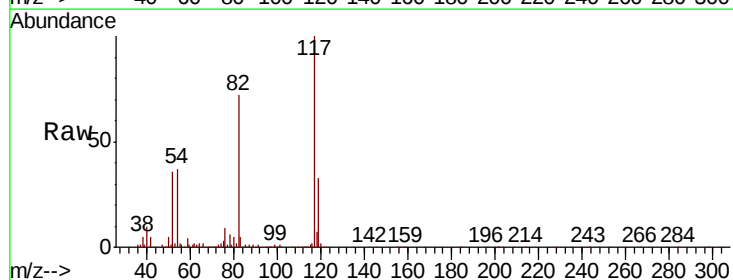
Tgt Ion: 117 Resp: 3082794

Ion Ratio Lower Upper

117 100

82 76.1 59.7 89.5

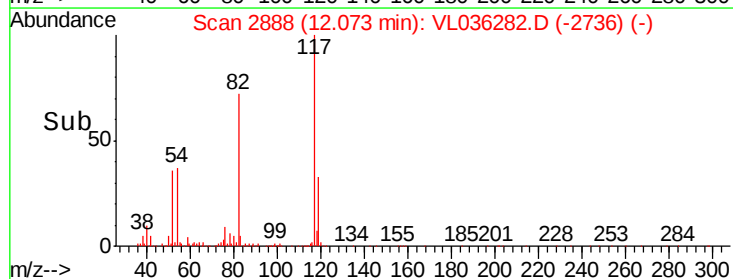
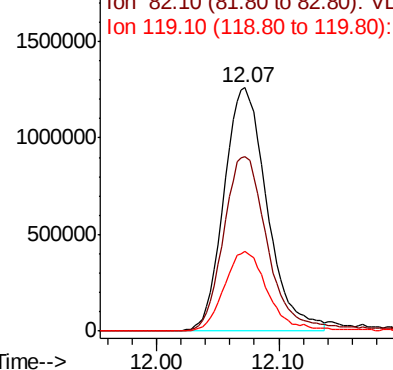
119 33.5 28.6 43.0



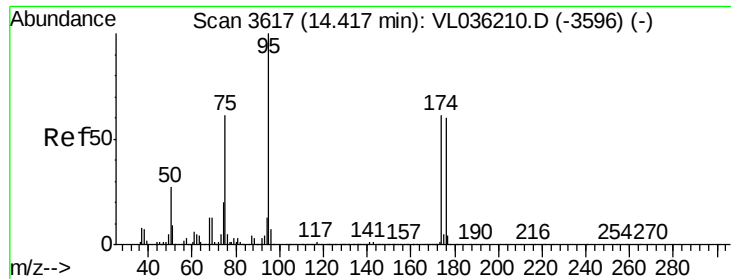
Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.330 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.02 min

Lab File: VL036282.D

Acq: 28 Jan 2021 21:52

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2635859

Ion Ratio Lower Upper

95 100

174 62.0 49.4 74.0

175 4.4 3.8 5.8

