

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036284.D
 Acq On : 28 Jan 2021 23:09
 Operator : SY/AP
 Sample : M1245-02 DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 29 02:28:46 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	1632689	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3437006	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3189828	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	2715875	10.29	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%	

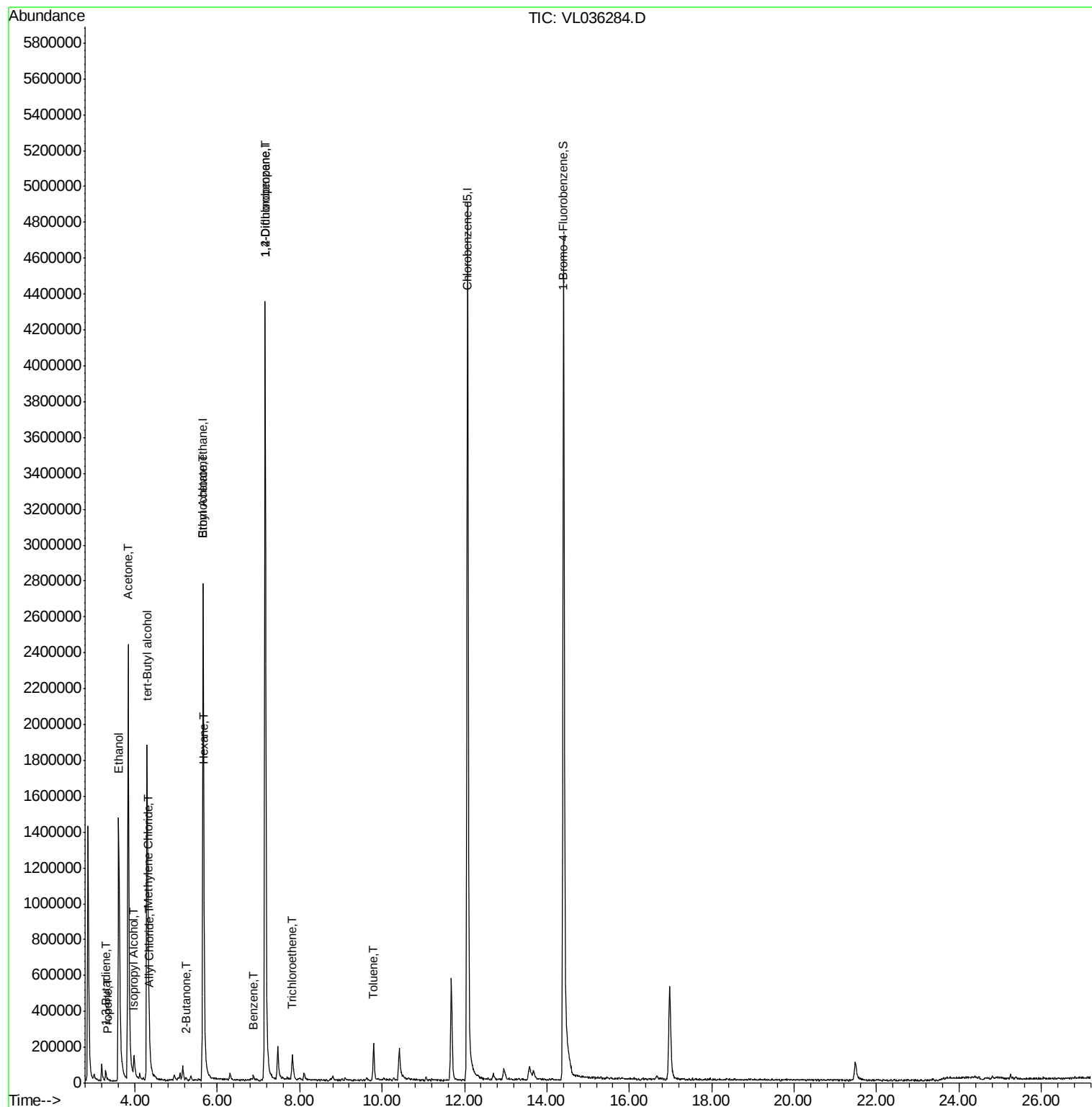
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.34	41	4097	0.043	ppbv	88
13) Ethanol	3.61	45	2089441	139.356	ppbv	87
15) Acetone	3.84	43	3283625	16.422	ppbv	99
16) 1,3-Butadiene	3.30	39	8526	0.088	ppbv #	35
17) tert-Butyl alcohol	4.30	59	2301378	13.947	ppbv	100
19) Isopropyl Alcohol	3.98	45	67427	0.559	ppbv #	93
20) Methylene Chloride	4.34	84	30588	0.479	ppbv #	77
21) Allyl Chloride	4.37	41	15255	0.140	ppbv #	17
25) Ethyl Acetate	5.66	43	39563	0.099	ppbv #	75
26) Hexane	5.68	57	18260	0.109	ppbv #	1
34) 2-Butanone	5.23	43	9721	0.038	ppbv #	56
36) Benzene	6.87	78	11453	0.036	ppbv	98
38) Trichloroethene	7.81	130	8713	0.075	ppbv #	72
39) 1,2-Dichloropropane	7.16	63	1019401	7.972	ppbv #	21
53) Toluene	9.79	91	93055	0.264	ppbv #	20

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

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Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jan 29 02:28:46 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Instrument :
MSVOA_L
ClientSampled :

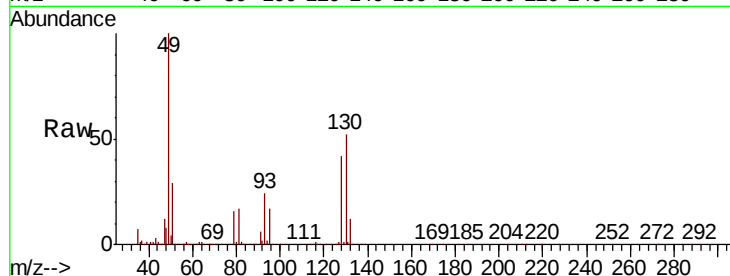
Tot Ion: 49 Resp: 1632689

Ion Ratio Lower Upper

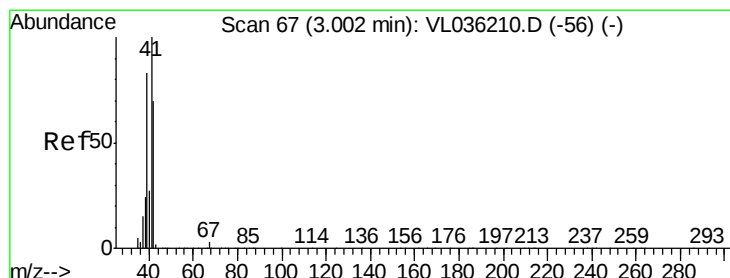
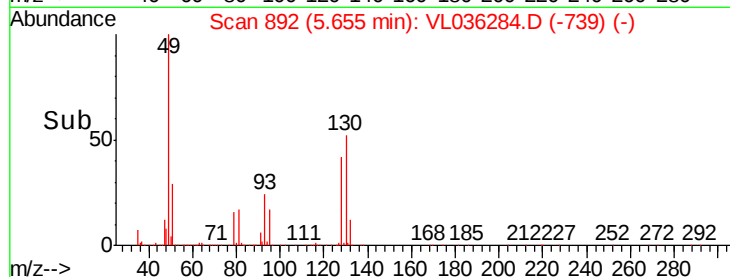
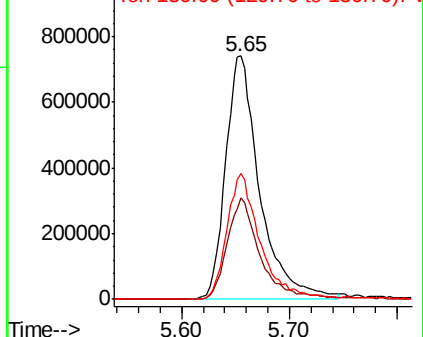
49 100

128 40.9 20.1 60.2

130 51.8 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



#9

Propene

Concen: 0.043 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.34 min

Lab File: VL036284.D

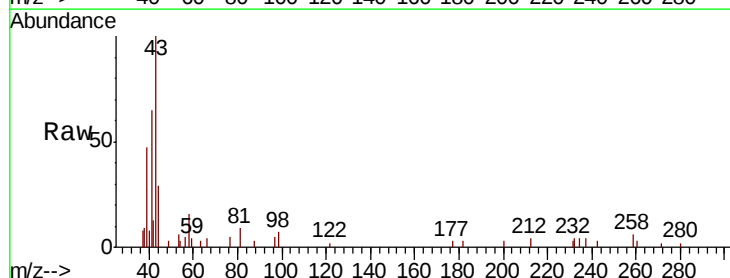
Acq: 28 Jan 2021 23:09

Tgt Ion: 41 Resp: 4097

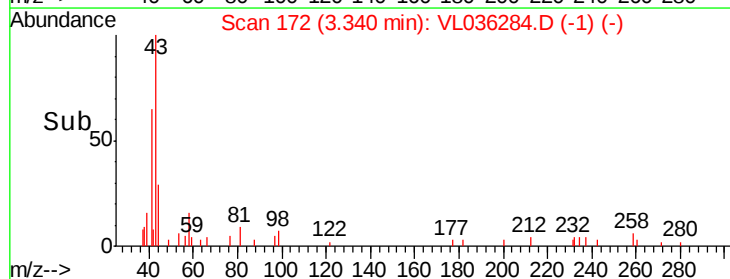
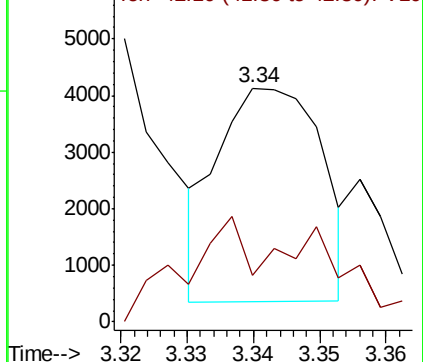
Ion Ratio Lower Upper

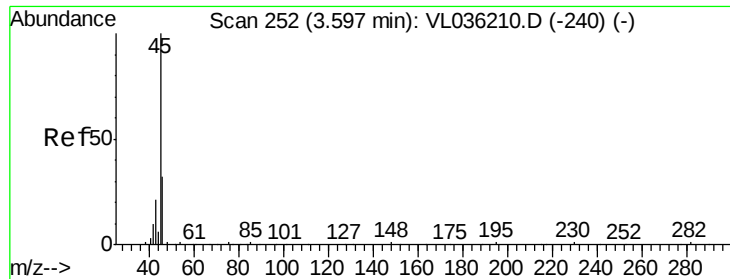
41 100

42 61.2 57.1 85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0

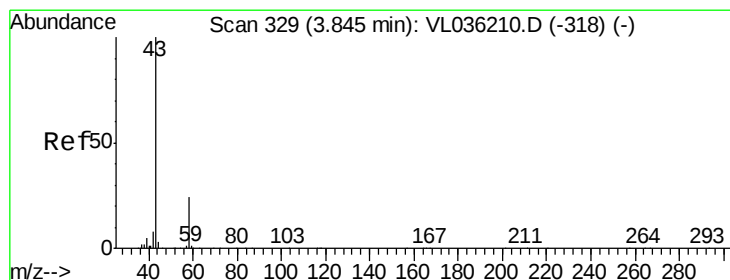
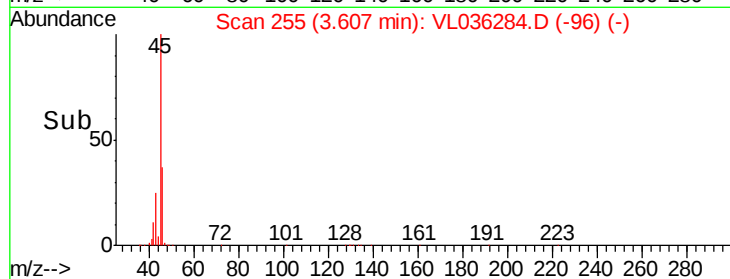
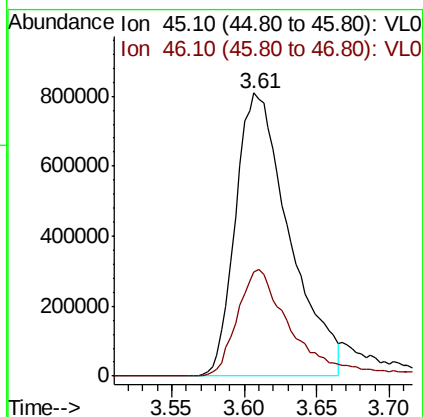
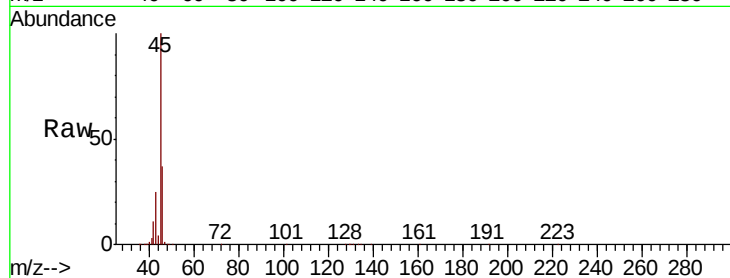




#13
Ethanol
Concen: 139.356 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL036284.D
Acq: 28 Jan 2021 23:09

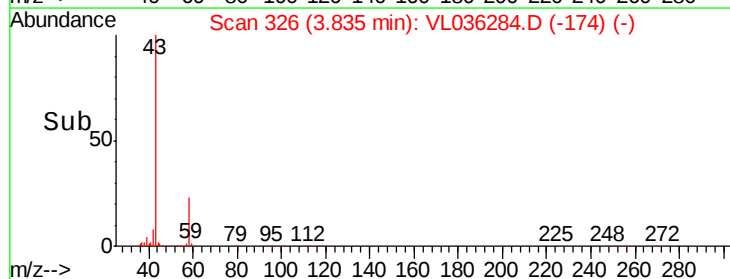
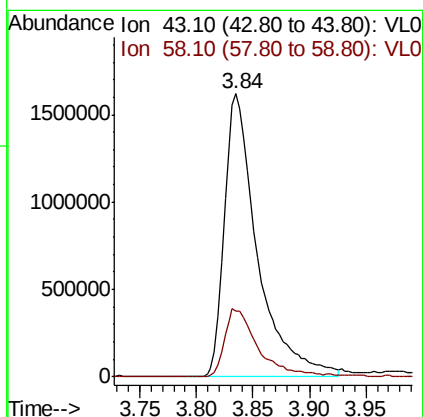
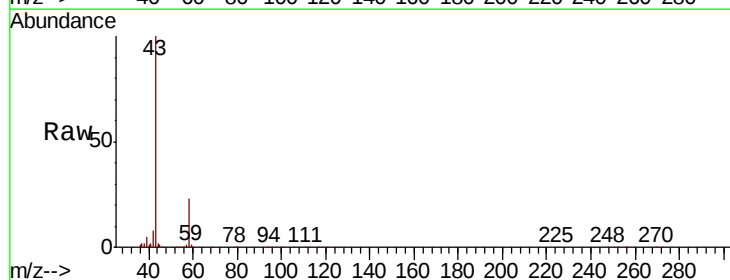
Instrument :
MSVOA_L
ClientSampleId :

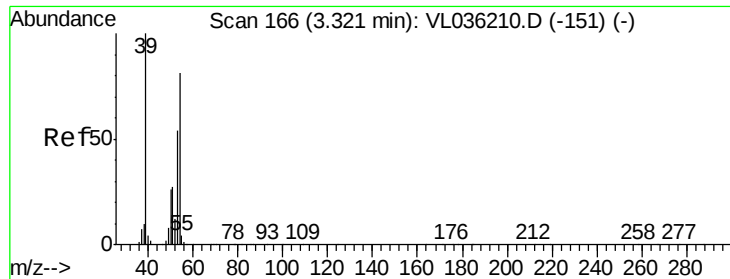
Tot Ion: 45 Resp: 2089441
Ion Ratio Lower Upper
45 100
46 39.1 19.2 77.0



#15
Acetone
Concen: 16.422 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.01 min
Lab File: VL036284.D
Acq: 28 Jan 2021 23:09

Tgt Ion: 43 Resp: 3283625
Ion Ratio Lower Upper
43 100
58 25.6 20.9 31.3

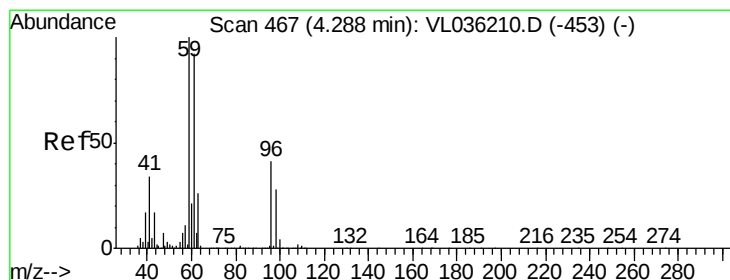
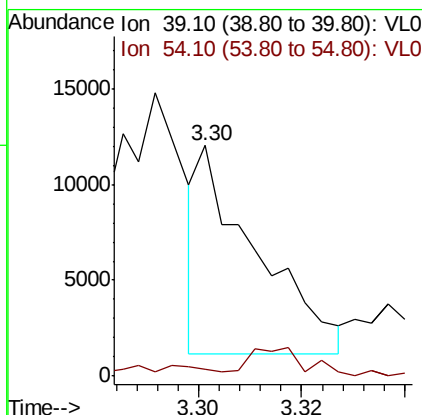
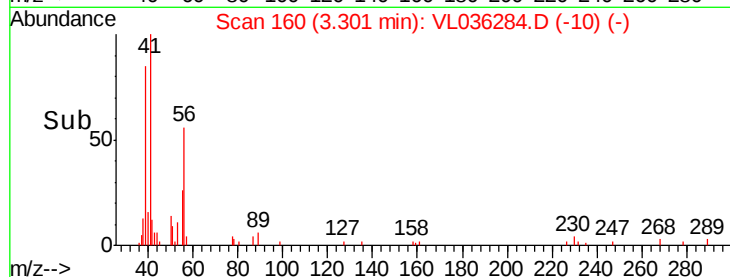
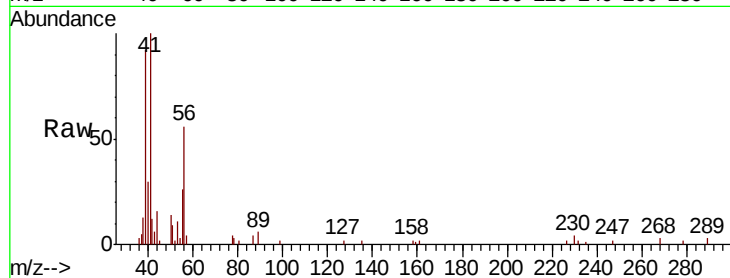




#16
 1,3-Butadiene
 Concen: 0.088 ppbv
 RT: 3.30 min Scan# 160
 Delta R.T. -0.02 min
 Lab File: VL036284.D
 Acq: 28 Jan 2021 23:09

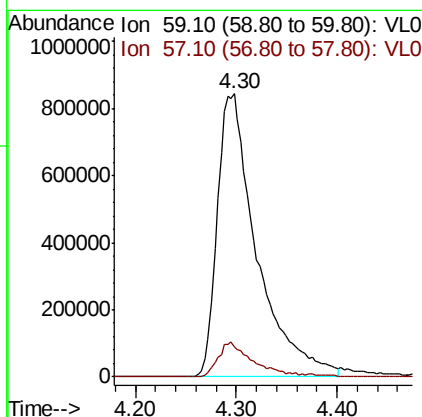
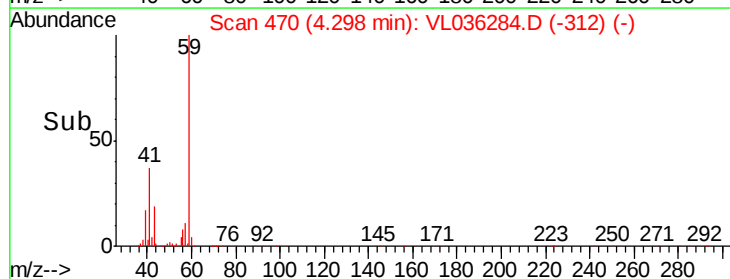
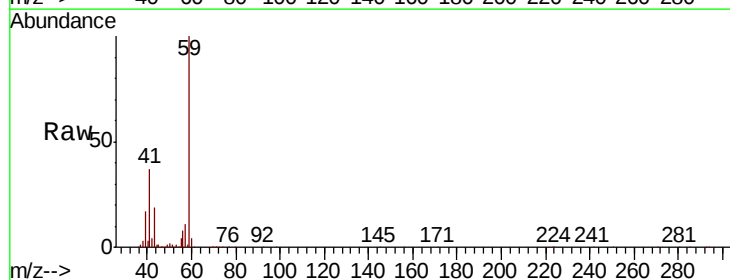
Instrument :
 MSVOA_L
 ClientSampleId :

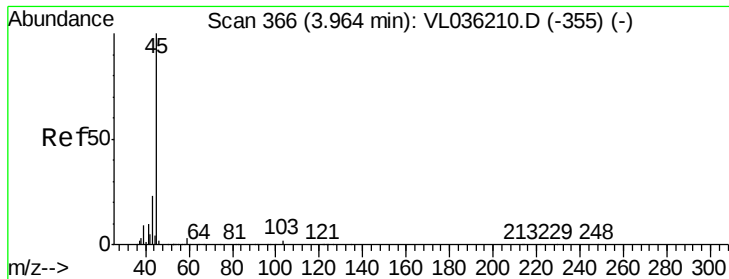
Tot Ion: 39 Resp: 8526
 Ion Ratio Lower Upper
 39 100
 54 21.2 62.5 93.7#



#17
 tert-Butyl alcohol
 Concen: 13.947 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL036284.D
 Acq: 28 Jan 2021 23:09

Tgt Ion: 59 Resp: 2301378
 Ion Ratio Lower Upper
 59 100
 57 11.7 9.2 13.8





#19

Isopropyl Alcohol

Concen: 0.559 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.02 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Instrument :

MSVOA_L

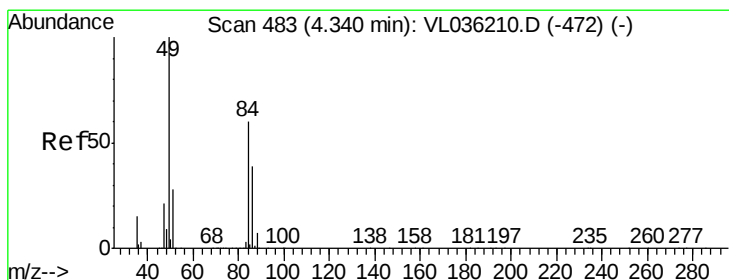
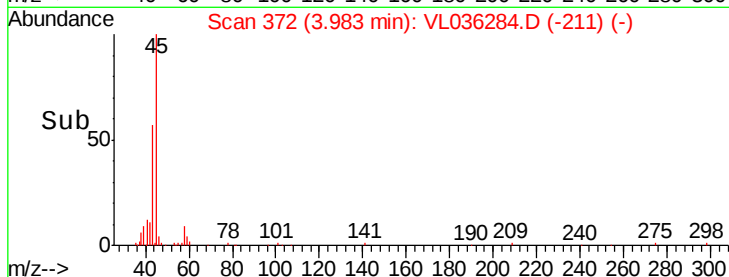
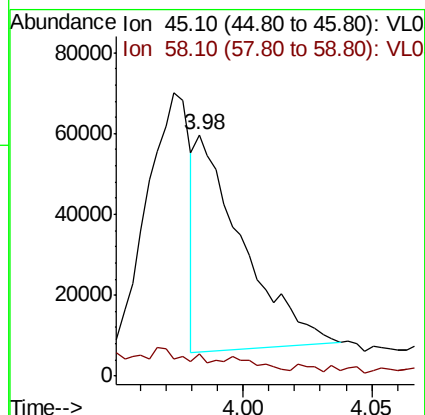
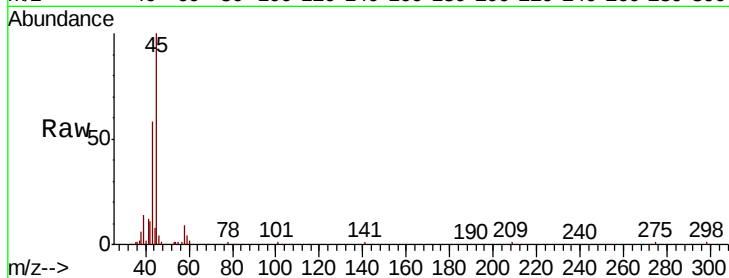
ClientSampleId :

Tot Ion: 45 Resp: 67427

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 0.479 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Tgt Ion: 84 Resp: 30588

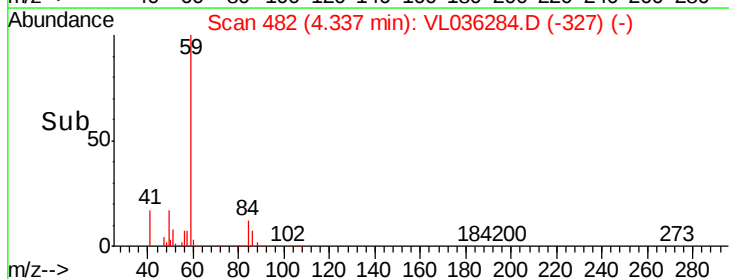
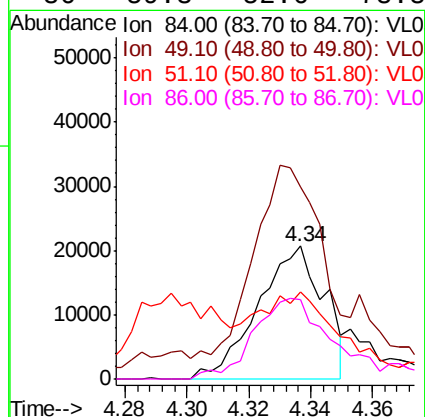
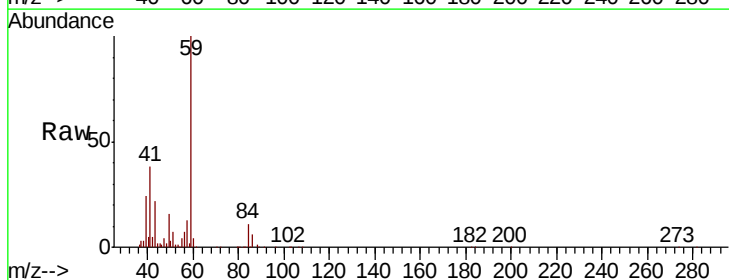
Ion Ratio Lower Upper

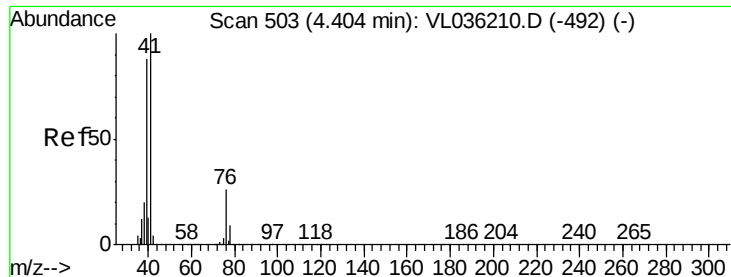
84 100

49 128.9 134.1 201.1#

51 30.8 37.4 56.0#

86 59.3 52.6 78.8





#21

Allvl Chloride

Concen: 0.140 ppbv

RT: 4.37 min Scan# 491

Delta R.T. -0.04 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Instrument :
MSVOA_L
ClientSampled :

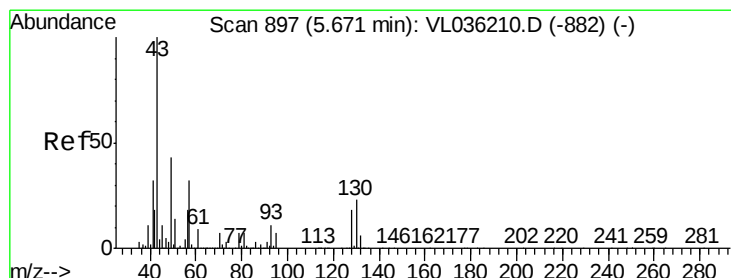
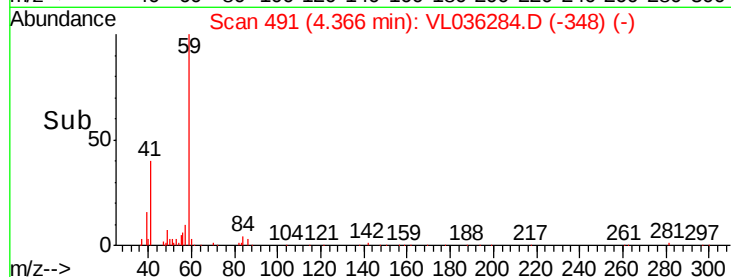
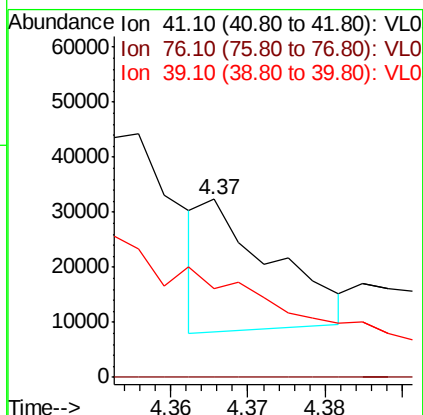
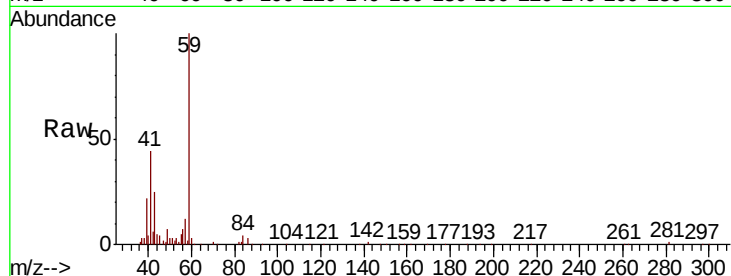
Tot Ion: 41 Resp: 15255

Ion Ratio Lower Upper

41 100

76 0.3 20.5 30.7#

39 0.0 67.8 101.8#



#25

Ethyl Acetate

Concen: 0.099 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Tgt Ion: 43 Resp: 39563

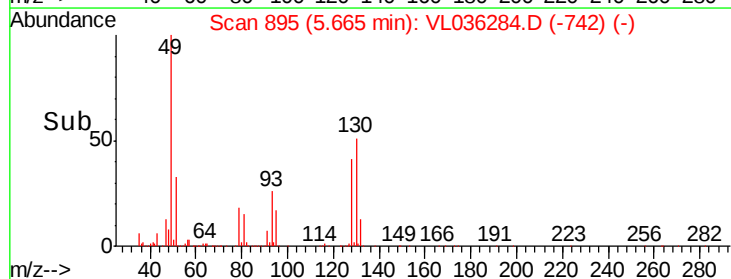
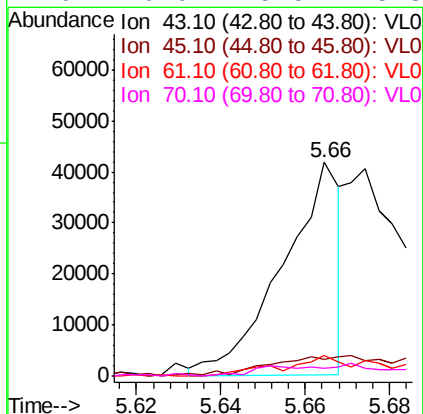
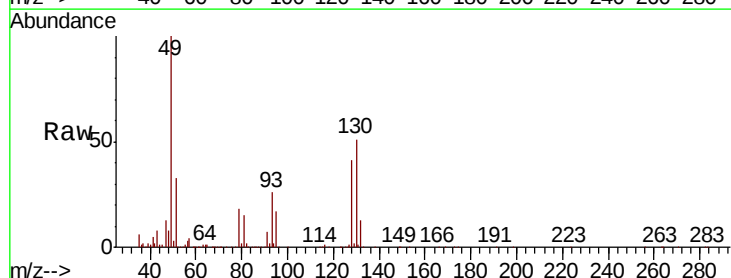
Ion Ratio Lower Upper

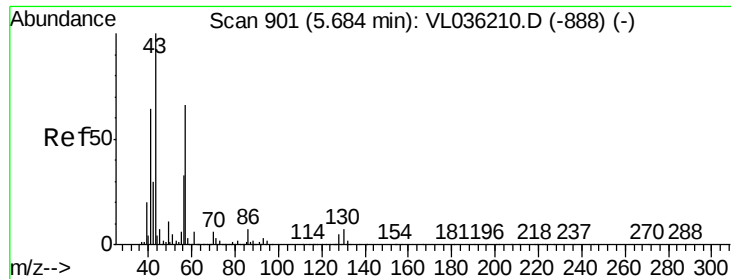
43 100

45 0.0 8.3 12.5#

61 18.8 7.4 11.2#

70 0.0 5.5 8.3#

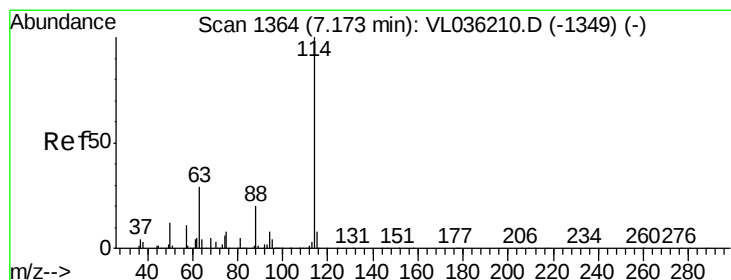
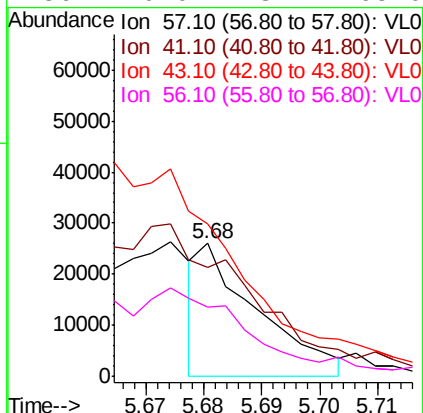
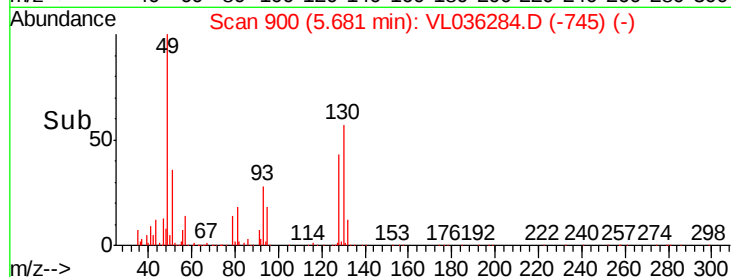
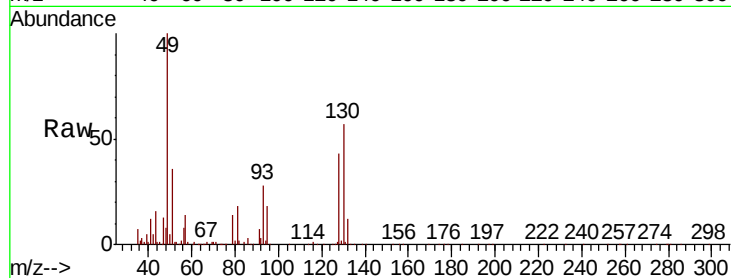




#26
Hexane
Concen: 0.109 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036284.D
Acq: 28 Jan 2021 23:09

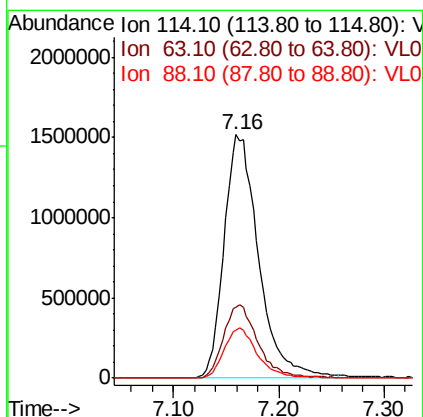
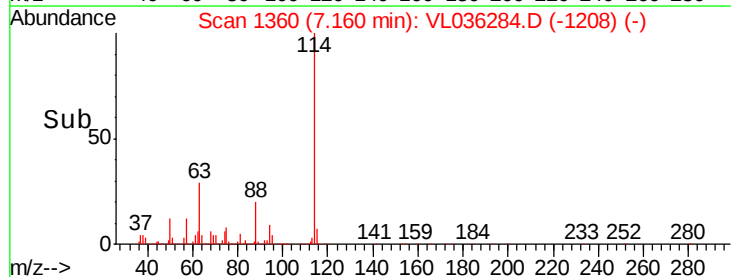
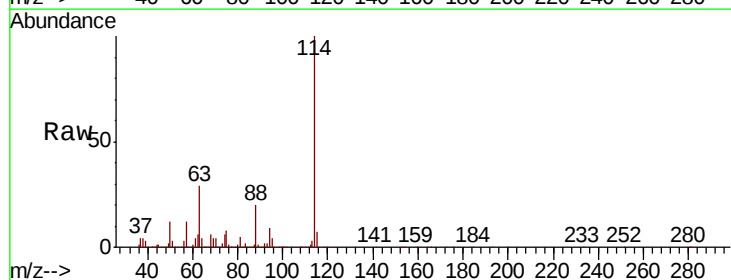
Instrument :
MSVOA_L
ClientSampleId :

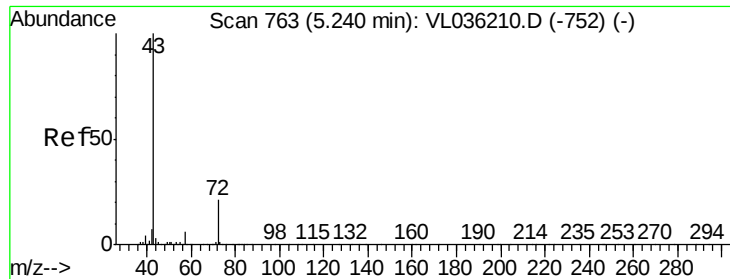
Tot Ion: 57 Resp: 18260
Ion Ratio Lower Upper
57 100
41 0.0 83.0 124.6#
43 0.0 202.4 303.6#
56 0.0 43.4 65.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL036284.D
Acq: 28 Jan 2021 23:09

Tgt Ion: 114 Resp: 3437006
Ion Ratio Lower Upper
114 100
63 30.5 24.7 37.1
88 20.2 16.6 24.8

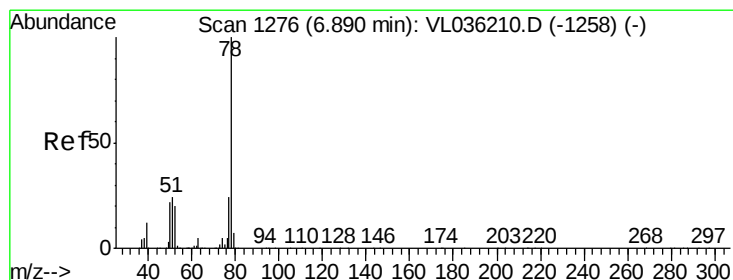
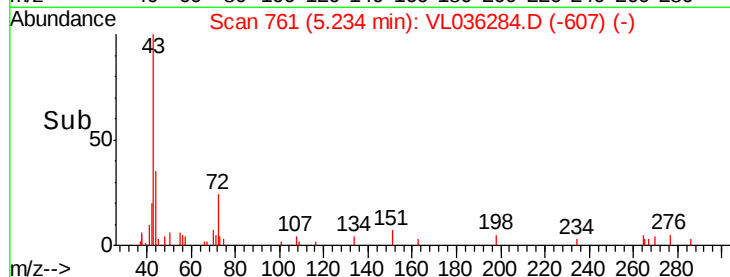
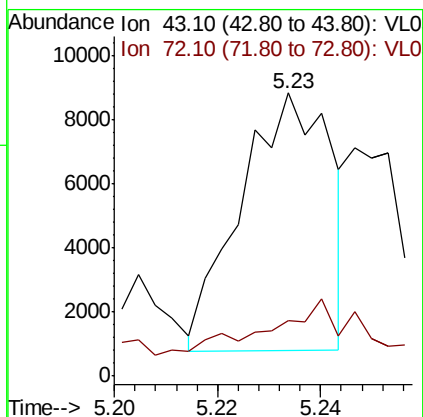
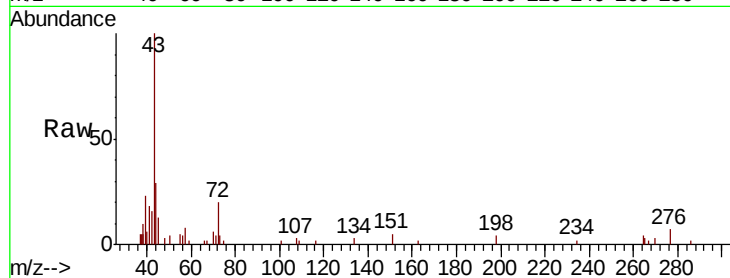




#34
2-Butanone
Concen: 0.038 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.01 min
Lab File: VL036284.D
Acq: 28 Jan 2021 23:09

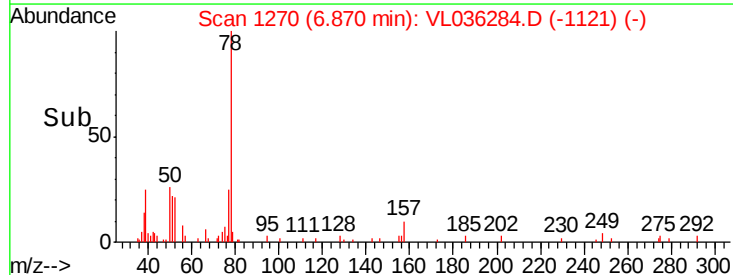
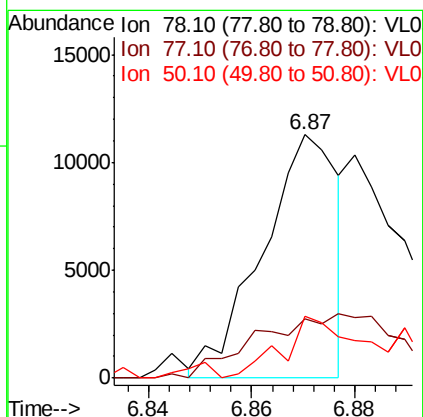
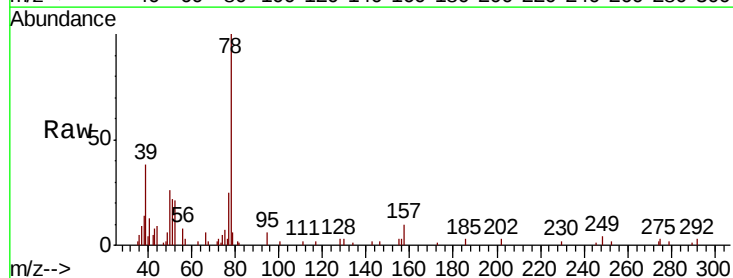
Instrument :
MSVOA_L
ClientSampleId :

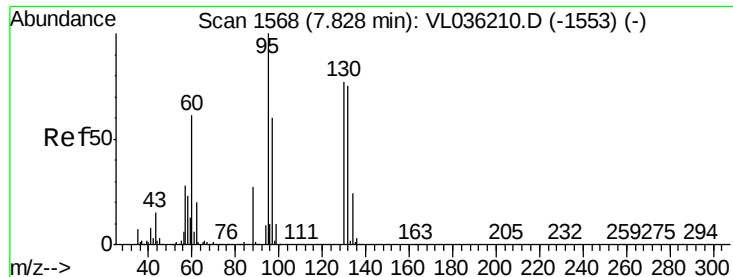
Tot Ion: 43 Resp: 9721
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#



#36
Benzene
Concen: 0.036 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.02 min
Lab File: VL036284.D
Acq: 28 Jan 2021 23:09

Tgt Ion: 78 Resp: 11453
Ion Ratio Lower Upper
78 100
77 25.5 19.4 29.0
50 22.6 17.4 26.2





#38

Trichloroethene

Concen: 0.075 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.02 min

Lab File: VL036284.D

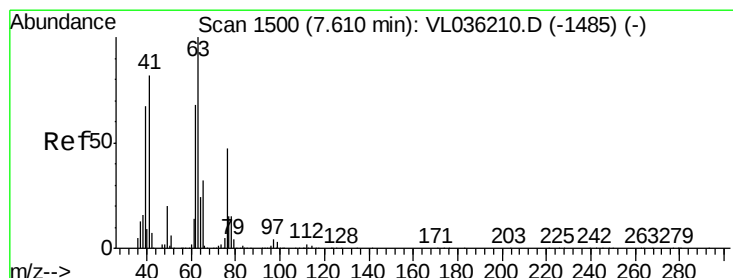
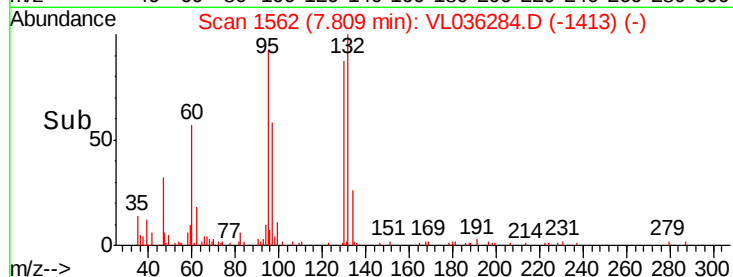
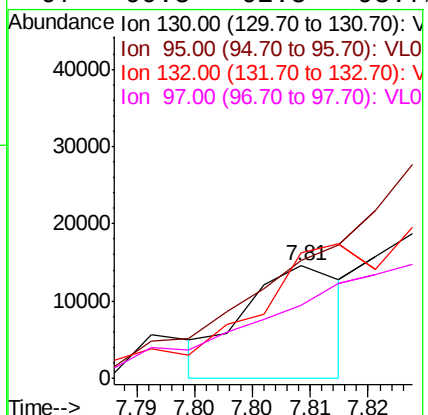
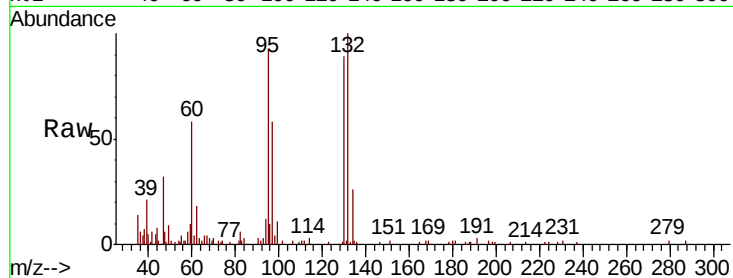
Acq: 28 Jan 2021 23:09

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	130	Resp:	8713
Ion	Ratio	Lower	Upper
130	100		
95	104.7	103.9	155.9
132	138.7	77.4	116.2#
97	60.5	62.5	93.7#



#39

1,2-Dichloropropane

Concen: 7.972 ppbv

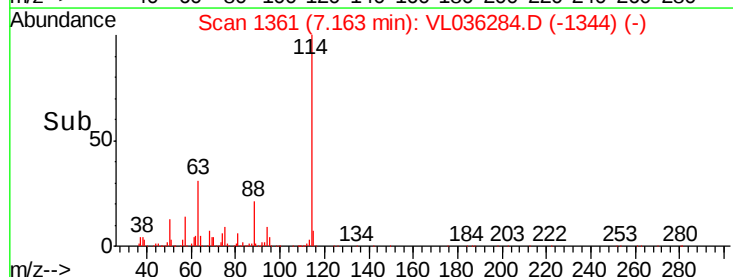
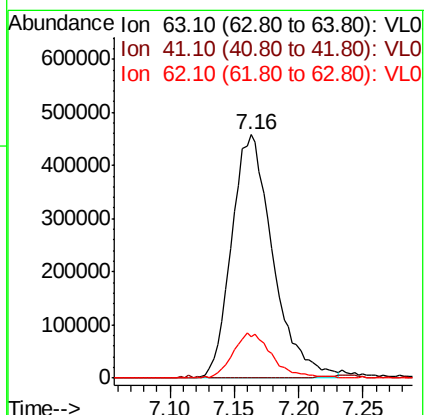
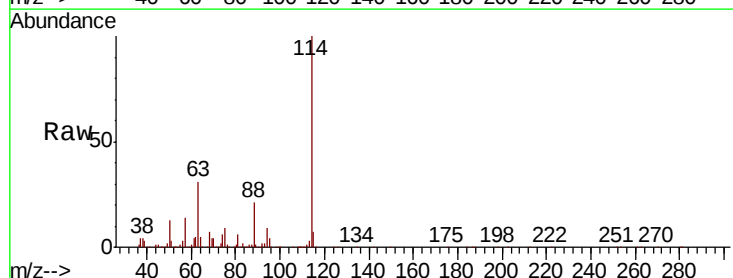
RT: 7.16 min Scan# 1361

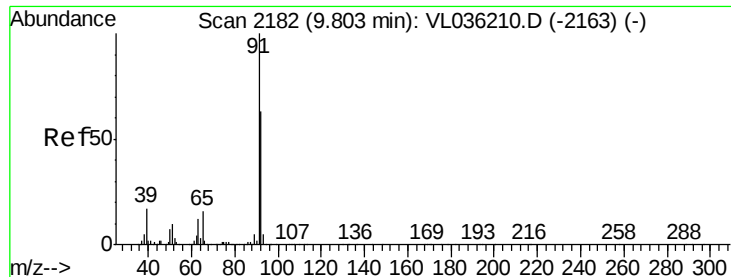
Delta R.T. -0.45 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Tgt Ion:	63	Resp:	1019401
Ion	Ratio	Lower	Upper
63	100		
41	0.0	66.1	99.1#
62	17.0	54.8	82.2#





#53

Toluene

Concen: 0.264 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Instrument :

MSVOA_L

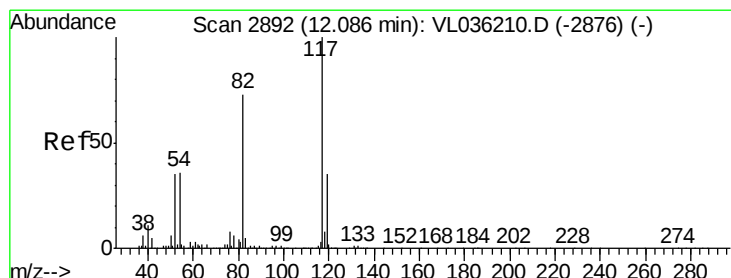
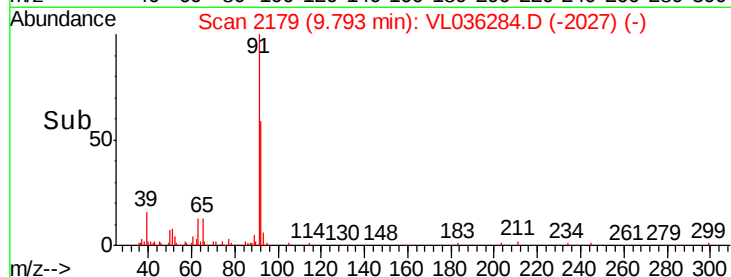
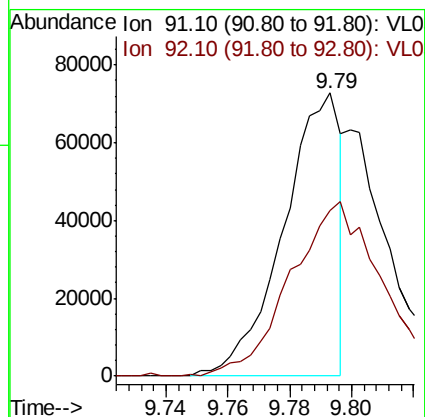
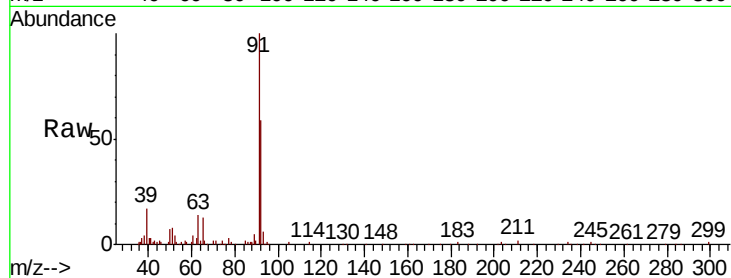
ClientSampleId :

Tot Ion: 91 Resp: 93055

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

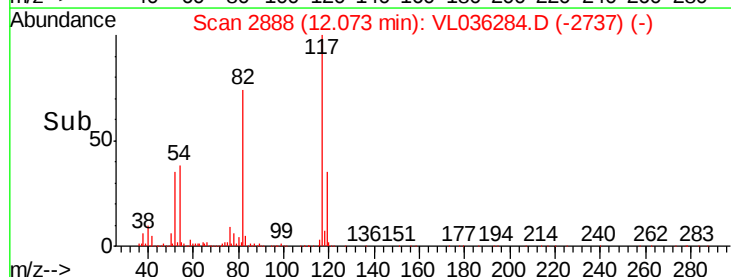
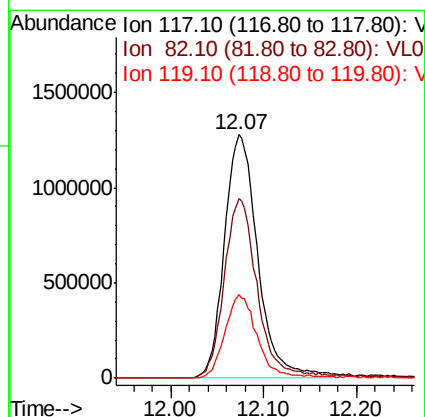
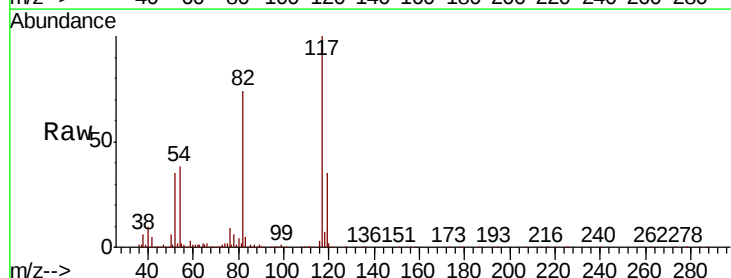
Tgt Ion: 117 Resp: 3189828

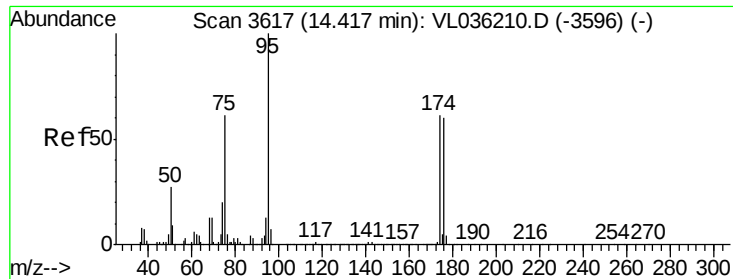
Ion Ratio Lower Upper

117 100

82 75.5 59.7 89.5

119 33.6 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.286 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.01 min

Lab File: VL036284.D

Acq: 28 Jan 2021 23:09

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2715875

Ion Ratio Lower Upper

95 100

174 61.3 49.4 74.0

175 4.3 3.8 5.8

