

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036332.D
 Acq On : 11 Feb 2021 00:34
 Operator : SY/AP
 Sample : M1343-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 06:12:48 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	1660487	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3505197	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3112580	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2582342	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

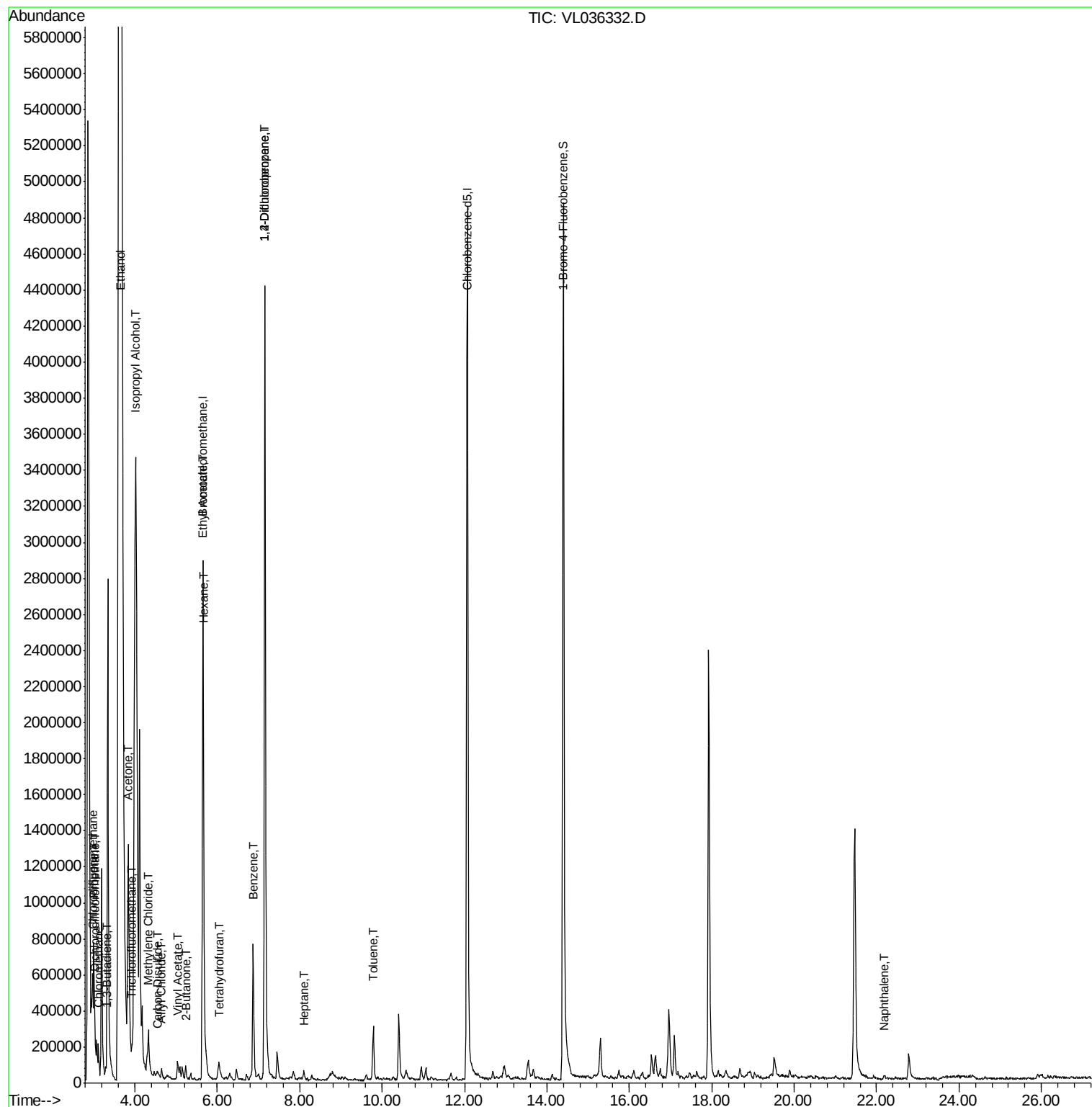
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	65446	0.264	ppbv	99
3) Chlorodifluoromethane	2.97	51	791130	3.835	ppbv #	87
4) Chloromethane	3.13	50	59656	0.599	ppbv	100
9) Propene	3.01	41	205265	2.668	ppbv #	79
10) Heptane	8.10	43	7299	0.032	ppbv #	1
11) Trichlorofluoromethane	3.93	101	26895	0.111	ppbv	85
13) Ethanol	3.64	45	31791631	2200.373	ppbv	100
15) Acetone	3.83	43	1597883	7.872	ppbv	97
16) 1,3-Butadiene	3.31	39	10539	0.109	ppbv #	1
19) Isopropyl Alcohol	4.02	45	9225588	82.040	ppbv #	97
20) Methylene Chloride	4.32	84	74271	1.134	ppbv	95
21) Allyl Chloride	4.65	41	18134	0.160	ppbv #	1
23) Vinyl Acetate	5.05	43	62225	0.261	ppbv #	74
25) Ethyl Acetate	5.66	43	329041	0.840	ppbv #	96
26) Hexane	5.67	57	82081	0.510	ppbv #	29
27) Carbon Disulfide	4.53	76	10170	0.069	ppbv #	1
34) 2-Butanone	5.23	43	41651	0.179	ppbv #	40
36) Benzene	6.87	78	676865	2.273	ppbv	97
39) 1,2-Dichloropropane	7.15	63	1007490	8.330	ppbv #	23
41) Tetrahydrofuran	6.04	42	29334	0.226	ppbv #	65
53) Toluene	9.78	91	199216	0.618	ppbv	97
79) Naphthalene	22.18	128	9232	0.040	ppbv #	61

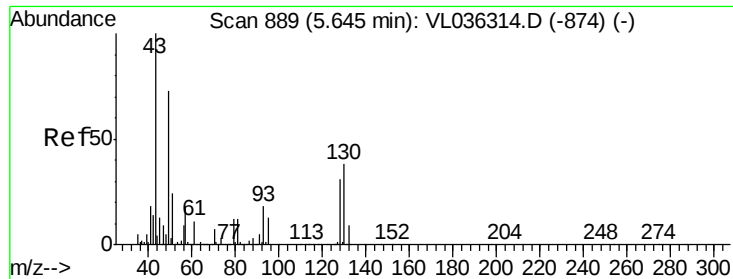
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL036332.D

Acq: 11 Feb 2021 00:34

Instrument :

MSVOA_L

ClientSampleId :

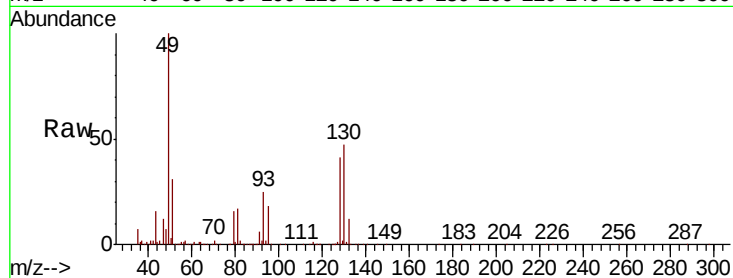
Tot Ion: 49 Resp: 1660487

Ion Ratio Lower Upper

49 100

128 41.1 20.8 62.5

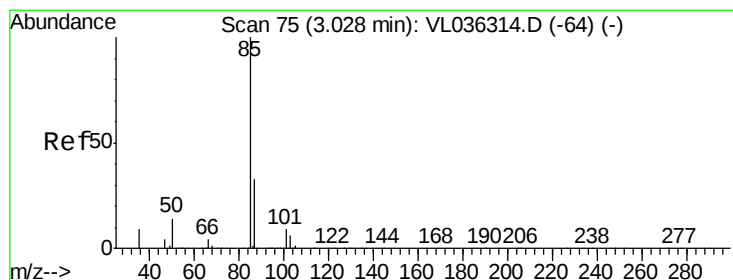
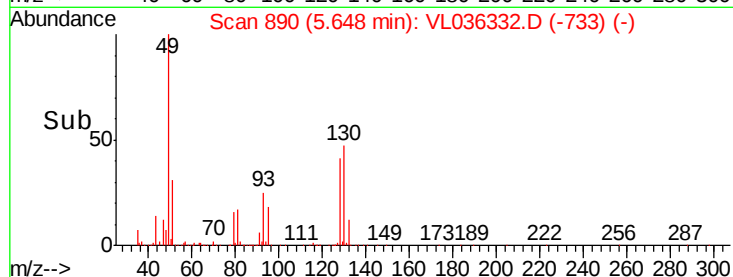
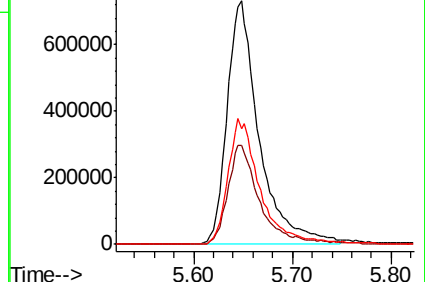
130 52.1 26.7 80.1



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



#2

Dichlorodifluoromethane

Concen: 0.264 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036332.D

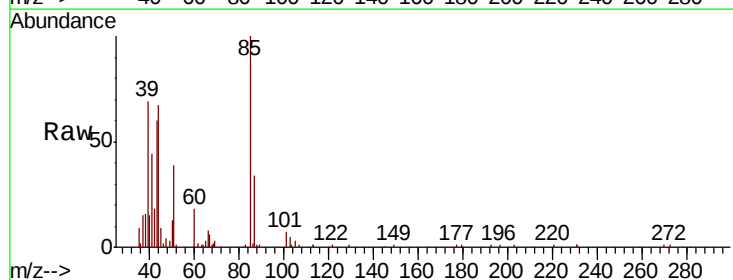
Acq: 11 Feb 2021 00:34

Tgt Ion: 85 Resp: 65446

Ion Ratio Lower Upper

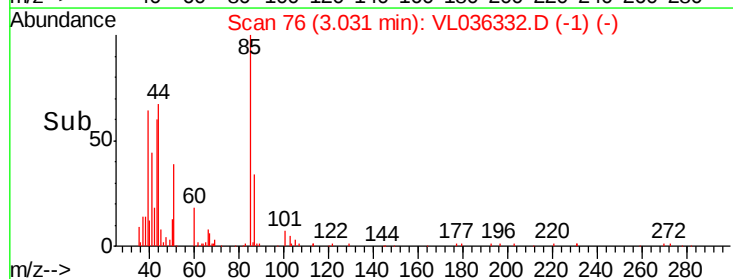
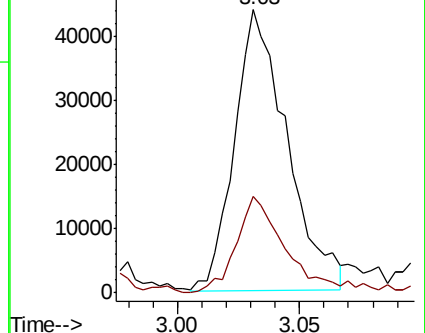
85 100

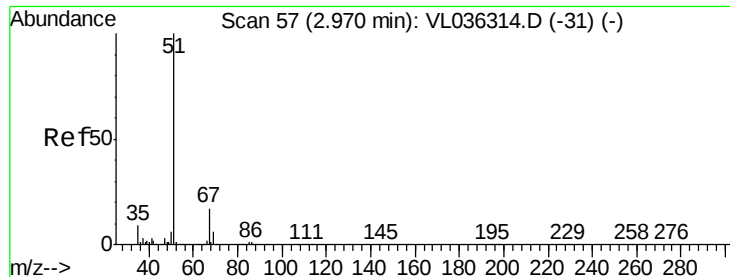
87 33.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.835 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

Instrument :

MSVOA_L

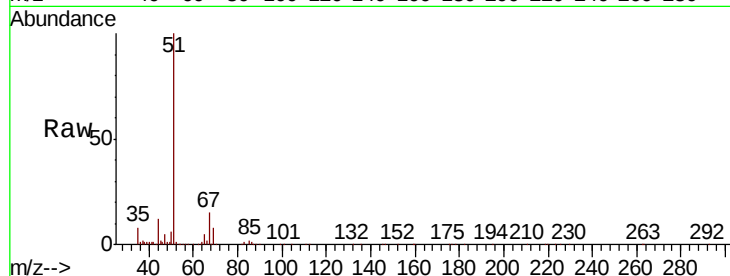
ClientSampleId :

Tot Ion: 51 Resp: 791130

Ion Ratio Lower Upper

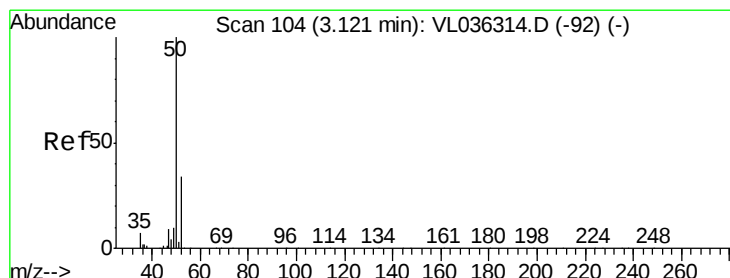
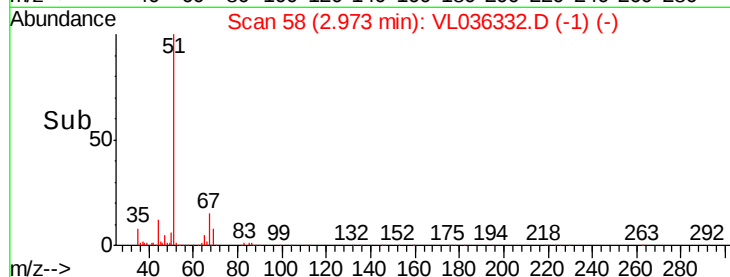
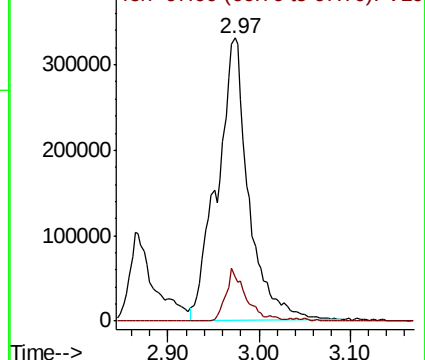
51 100

67 12.7 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: 0.599 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL036332.D

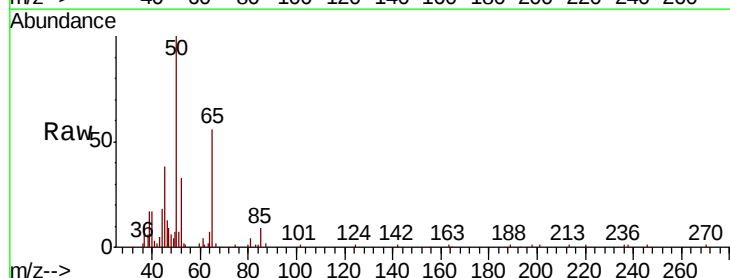
Acq: 11 Feb 2021 00:34

Tgt Ion: 50 Resp: 59656

Ion Ratio Lower Upper

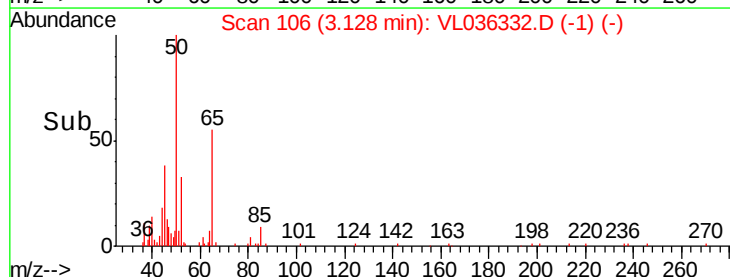
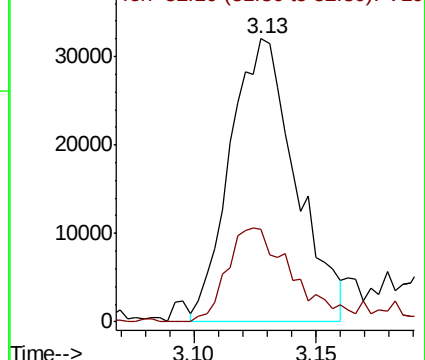
50 100

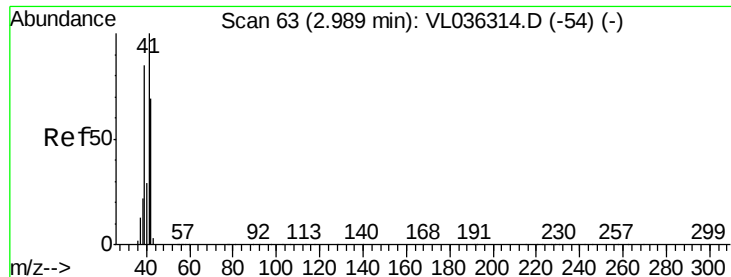
52 33.8 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

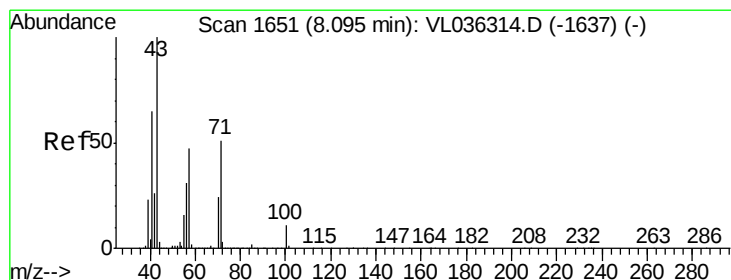
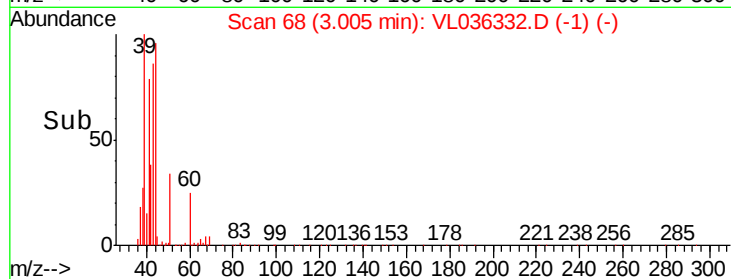
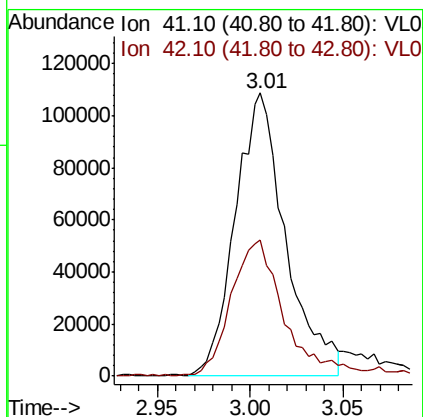
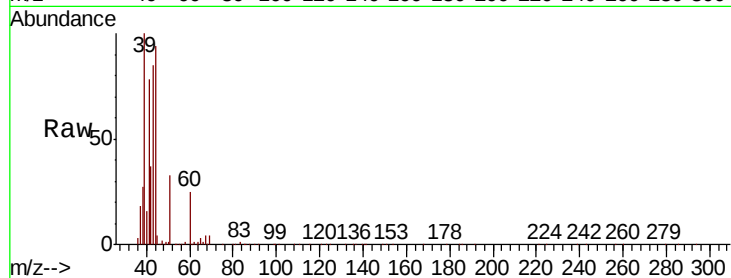




#9
 Propene
 Concen: 2.668 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. 0.02 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

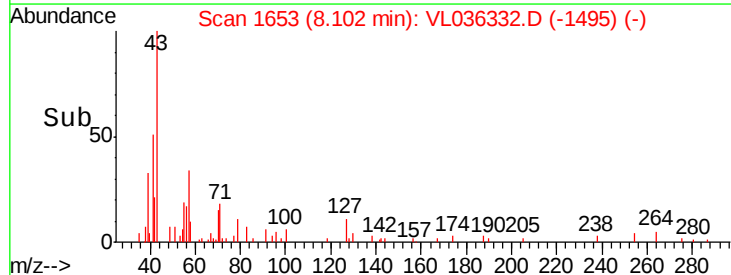
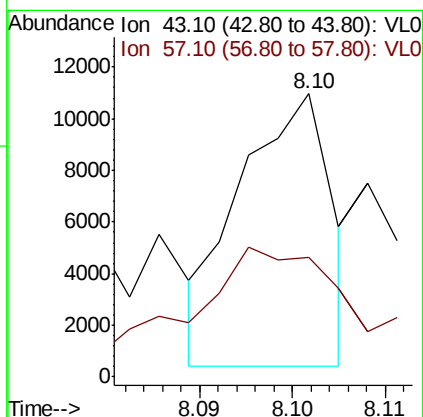
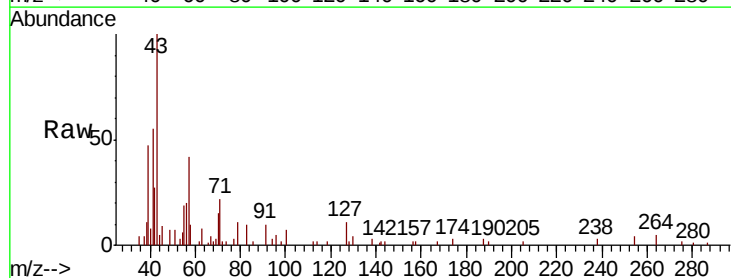
Instrument :
 MSVOA_L
 ClientSampleId :

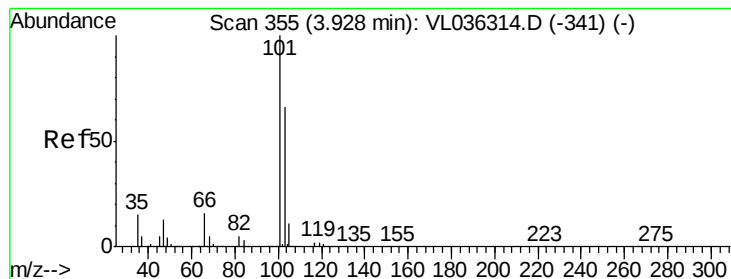
Tot Ion: 41 Resp: 205265
 Ion Ratio Lower Upper
 41 100
 42 52.9 56.2 84.2#



#10
 Heptane
 Concen: 0.032 ppbv
 RT: 8.10 min Scan# 1653
 Delta R.T. 0.01 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

Tgt Ion: 43 Resp: 7299
 Ion Ratio Lower Upper
 43 100
 57 132.7 39.4 59.2#





#11

Trichlorofluoromethane

Concen: 0.111 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

Instrument :

MSVOA_L

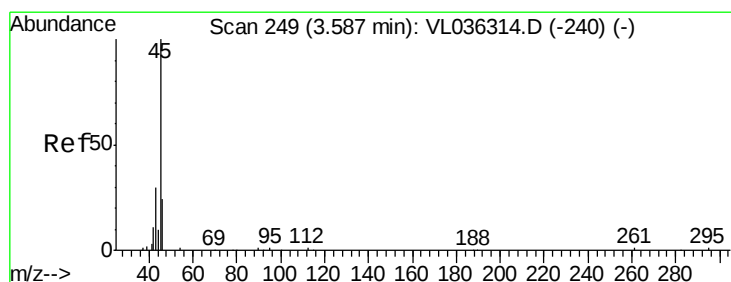
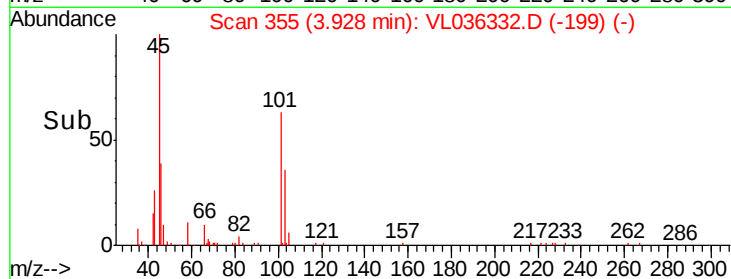
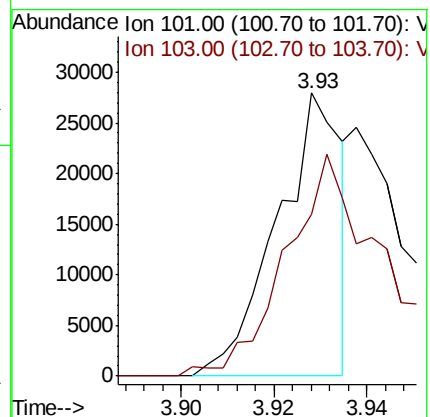
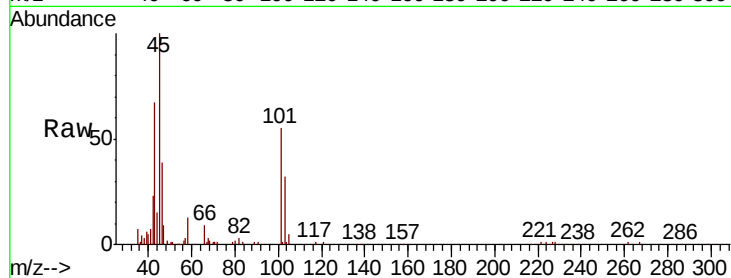
ClientSampleId :

Tot Ion:101 Resp: 26895

Ion Ratio Lower Upper

101 100

103 54.0 52.9 79.3



#13

Ethanol

Concen: 2200.373 ppbv

RT: 3.64 min Scan# 266

Delta R.T. 0.05 min

Lab File: VL036332.D

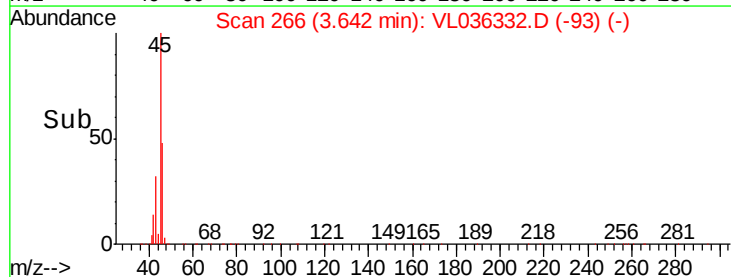
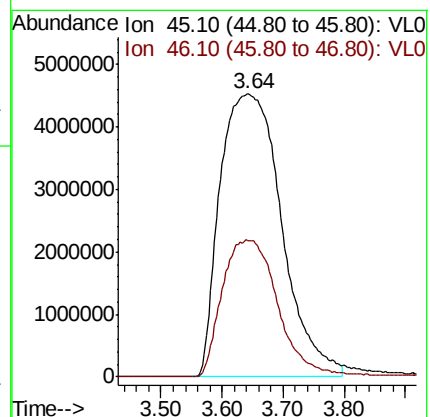
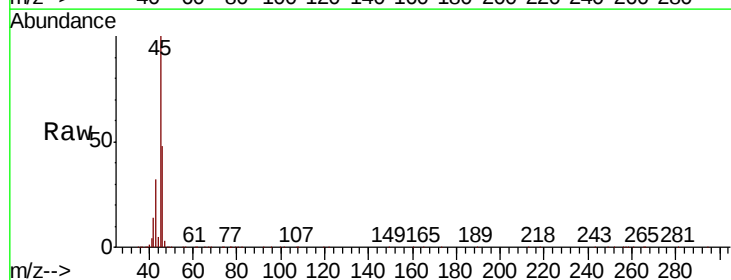
Acq: 11 Feb 2021 00:34

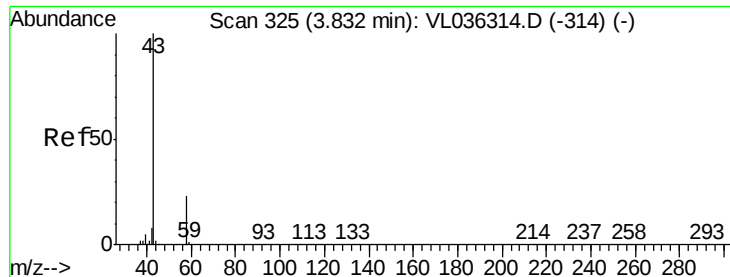
Tgt Ion: 45 Resp:31791631

Ion Ratio Lower Upper

45 100

46 44.3 17.7 70.7





#15

Acetone

Concen: 7.872 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

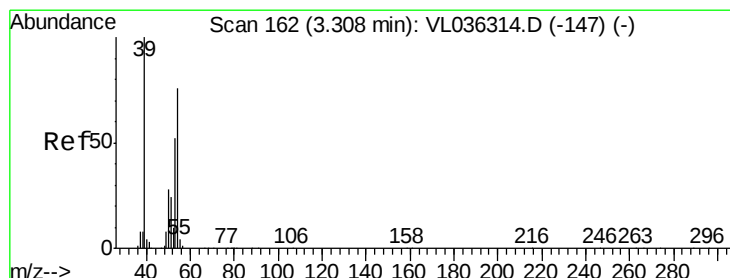
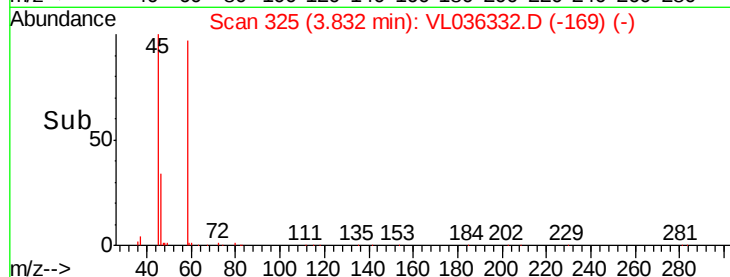
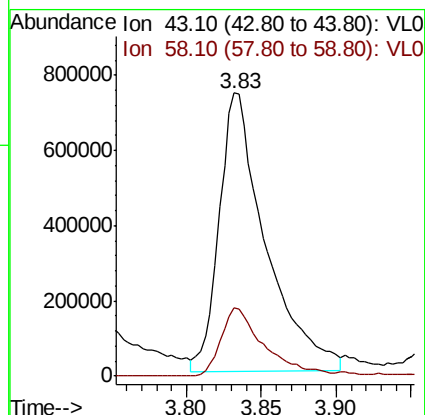
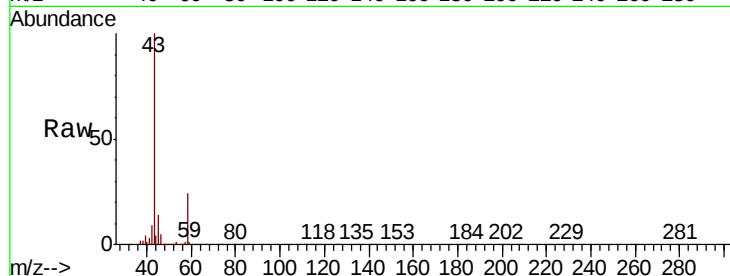
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1597883

Ion Ratio Lower Upper

43 100

58 24.0 20.3 30.5



#16

1,3-Butadiene

Concen: 0.109 ppbv

RT: 3.31 min Scan# 162

Delta R.T. 0.00 min

Lab File: VL036332.D

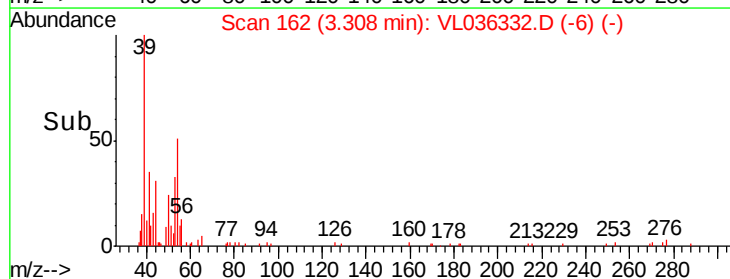
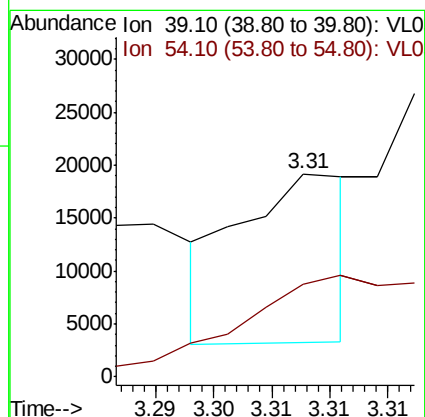
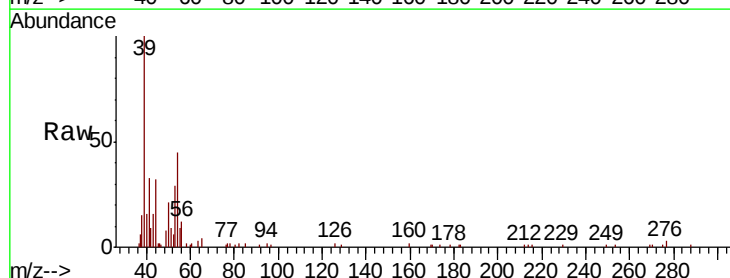
Acq: 11 Feb 2021 00:34

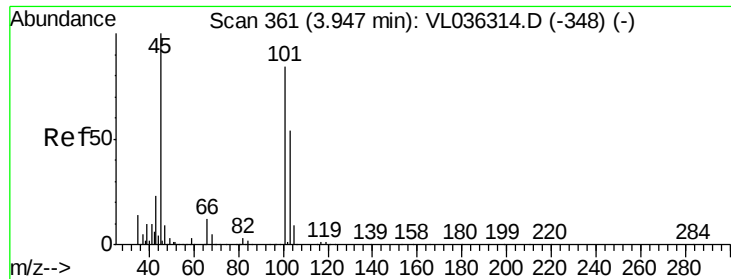
Tgt Ion: 39 Resp: 10539

Ion Ratio Lower Upper

39 100

54 236.9 64.4 96.6#



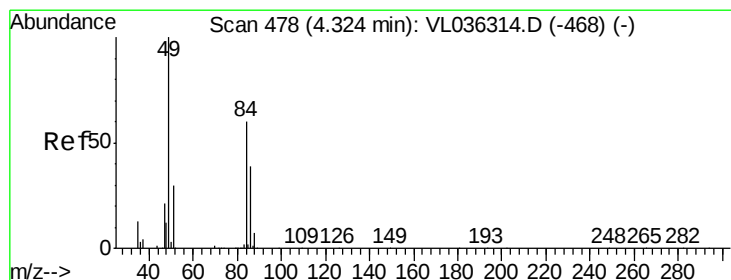
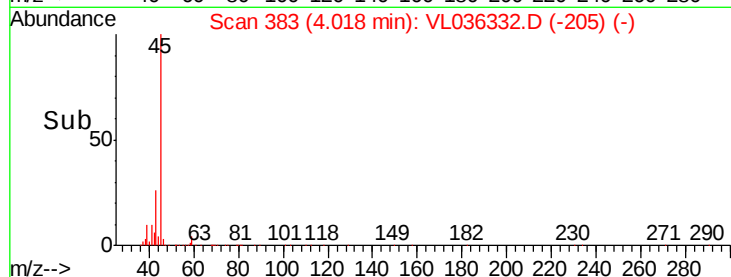
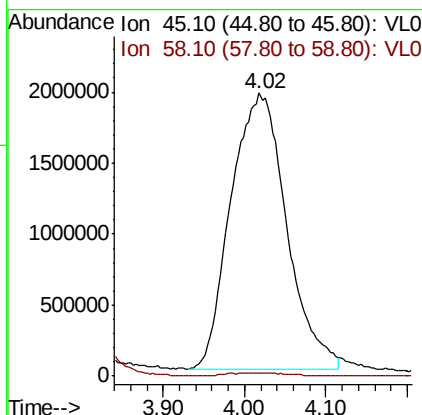
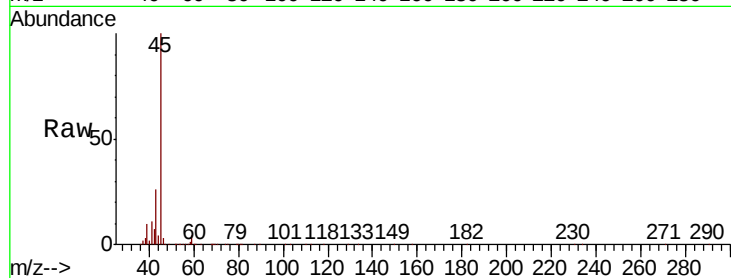


#19

Isopropyl Alcohol
 Concen: 82.040 ppbv
 RT: 4.02 min Scan# 383
 Delta R.T. 0.07 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

Instrument :
 MSVOA_L
 ClientSampleId :

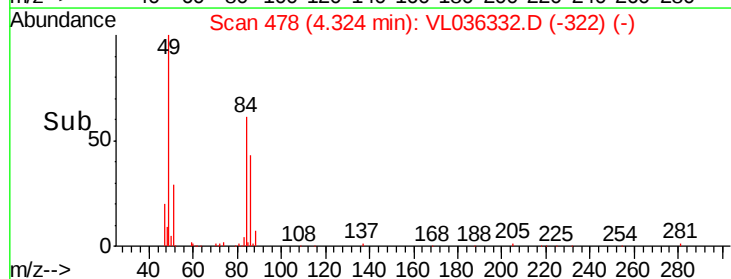
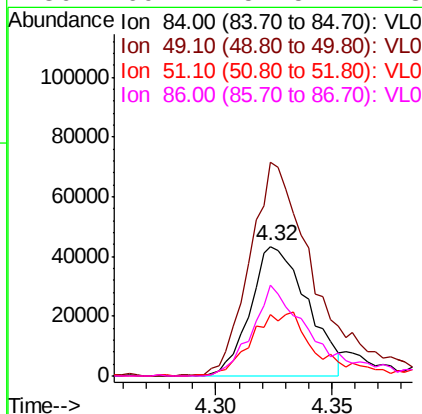
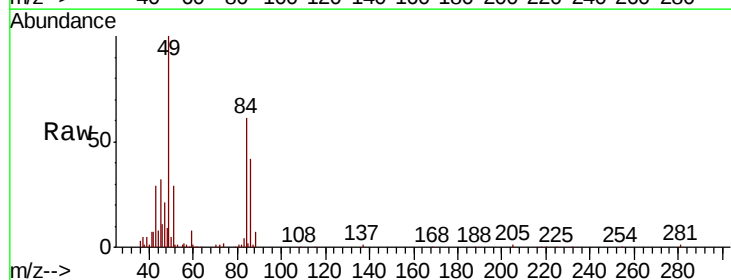
Tot Ion: 45 Resp: 9225588
 Ion Ratio Lower Upper
 45 100
 58 1.4 1.9 2.9#

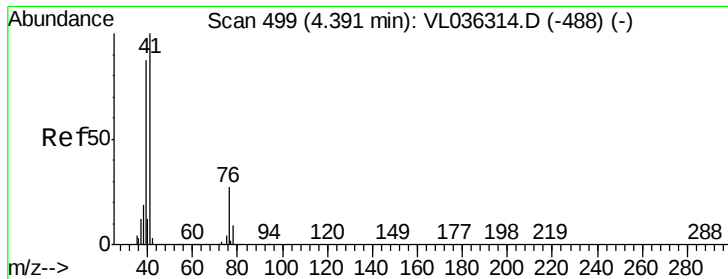


#20

Methylene Chloride
 Concen: 1.134 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.00 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

Tgt Ion: 84 Resp: 74271
 Ion Ratio Lower Upper
 84 100
 49 162.5 133.8 200.8
 51 47.3 41.4 62.0
 86 69.7 51.5 77.3





#21

Allvl Chloride

Concen: 0.160 ppbv

RT: 4.65 min Scan# 578

Delta R.T. 0.25 min

Lab File: VL036332.D

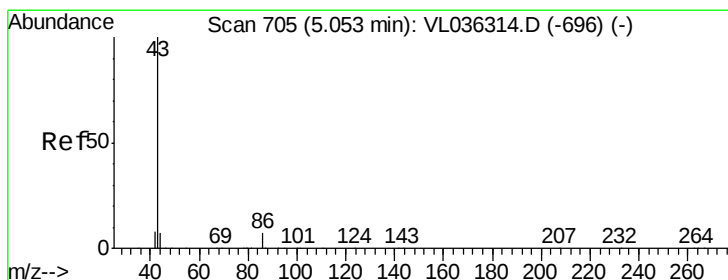
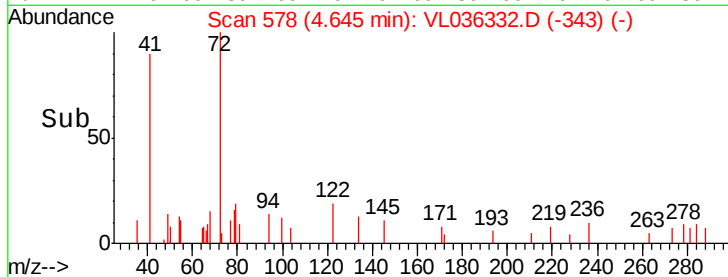
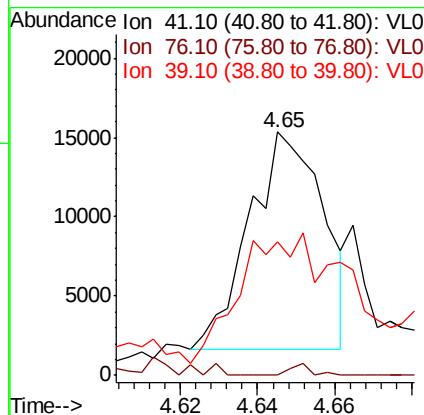
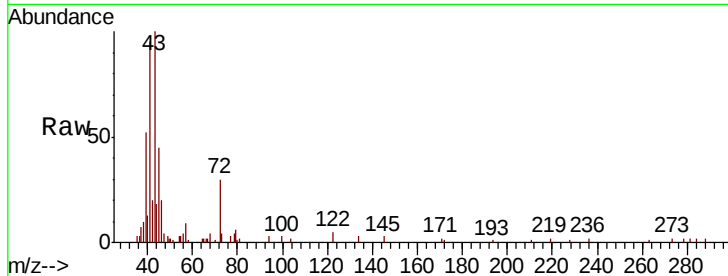
Acq: 11 Feb 2021 00:34

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	41	Resp:	18134
Ion	Ratio	Lower	Upper
41	100		
76	130.8	22.0	33.0#
39	0.0	70.2	105.2#



#23

Vinyl Acetate

Concen: 0.261 ppbv

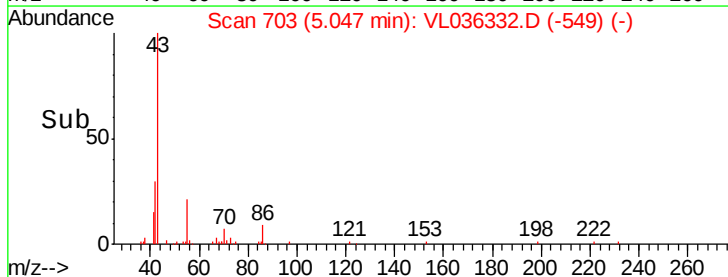
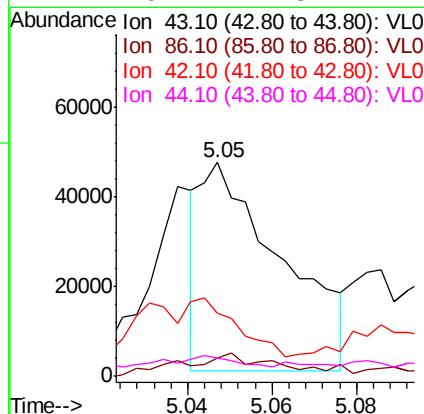
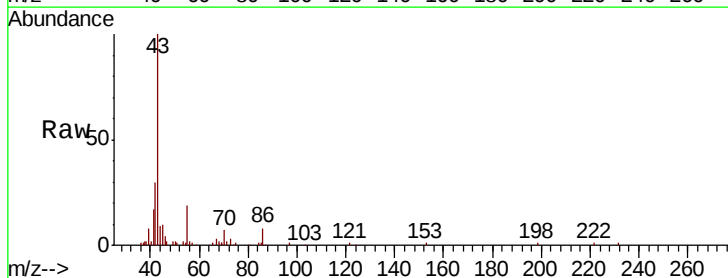
RT: 5.05 min Scan# 703

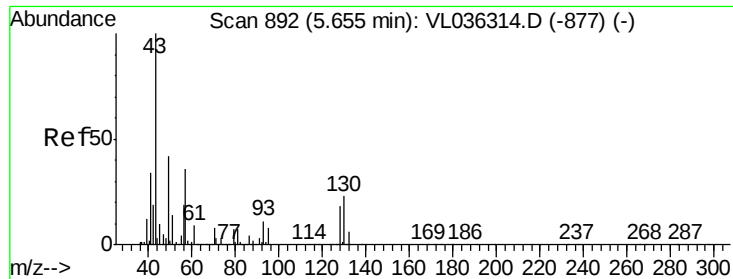
Delta R.T. -0.01 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

Tgt Ion:	43	Resp:	62225
Ion	Ratio	Lower	Upper
43	100		
86	5.7	4.8	7.2
42	30.2	7.4	11.0#
44	6.4	4.8	7.2

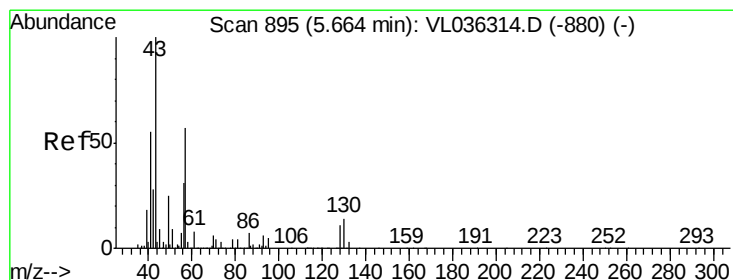
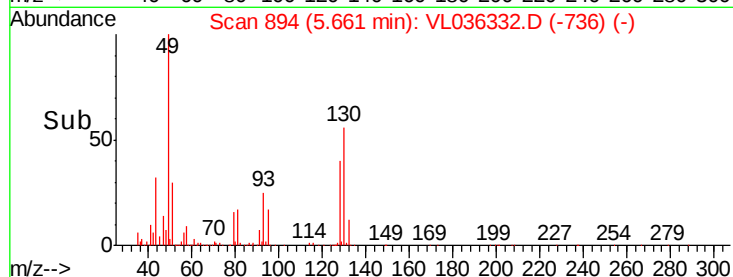
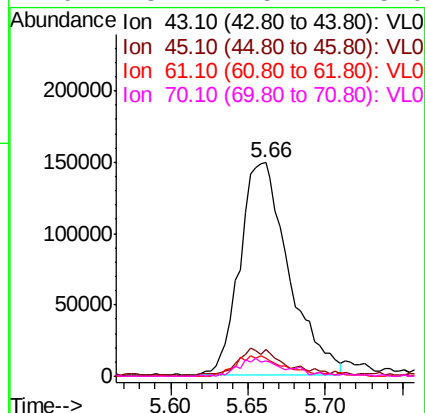
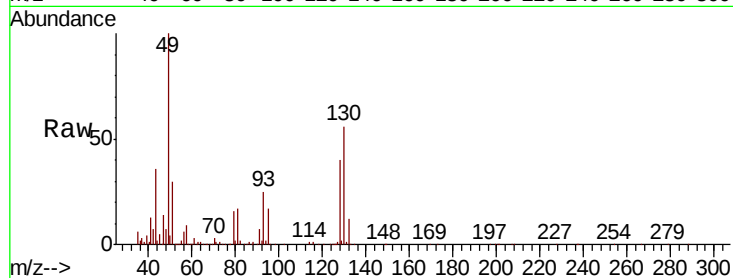




#25
Ethyl Acetate
Concen: 0.840 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.01 min
Lab File: VL036332.D
Acq: 11 Feb 2021 00:34

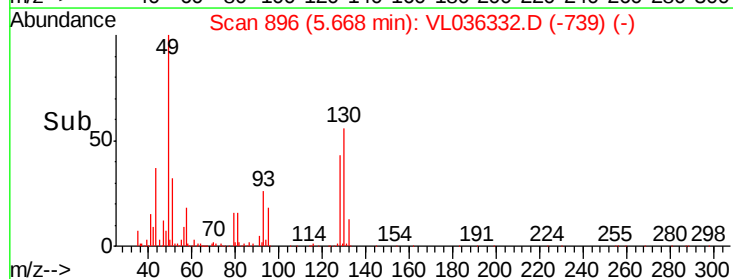
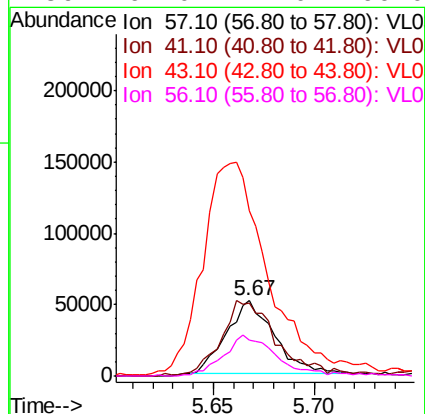
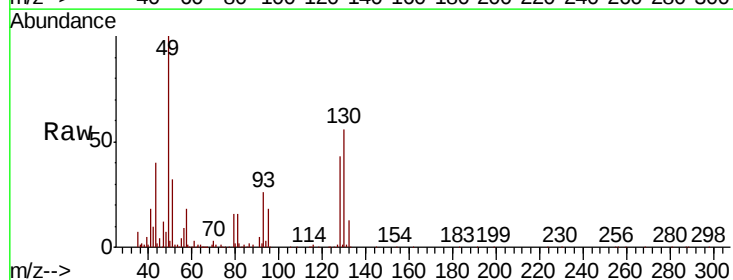
Instrument :
MSVOA_L
ClientSampleID :

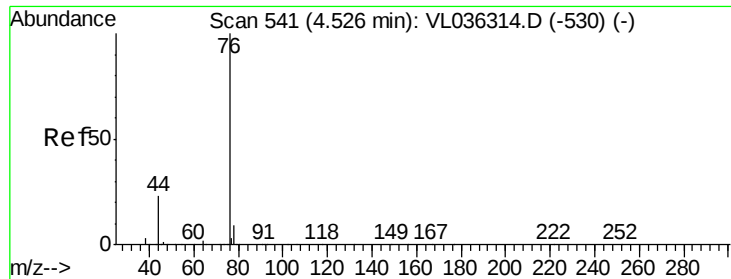
Tot Ion:	43	Resp:	329041
Ion	Ratio	Lower	Upper
43	100		
45	12.3	8.3	12.5
61	10.3	7.3	10.9
70	8.1	5.4	8.0#



#26
Hexane
Concen: 0.510 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036332.D
Acq: 11 Feb 2021 00:34

Tgt Ion:	57	Resp:	82081
Ion	Ratio	Lower	Upper
57	100		
41	130.5	81.7	122.5#
43	425.3	199.1	298.7#
56	67.0	44.0	66.0#





#27

Carbon Disulfide

Concen: 0.069 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.01 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

Instrument :

MSVOA_L

ClientSampleId :

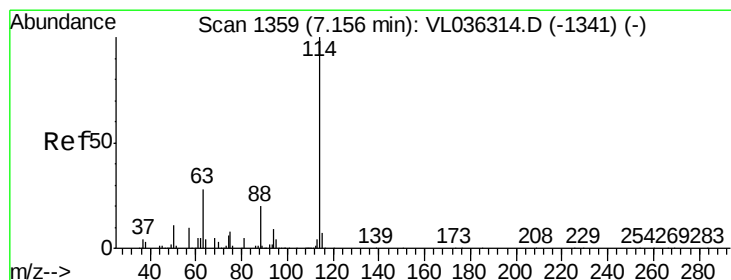
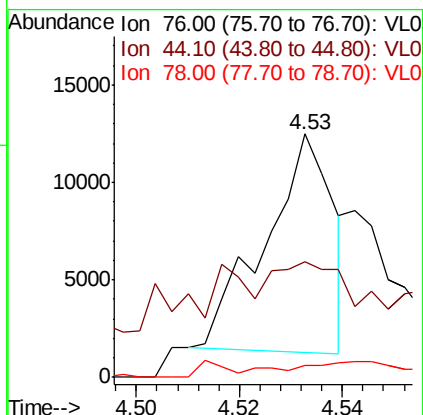
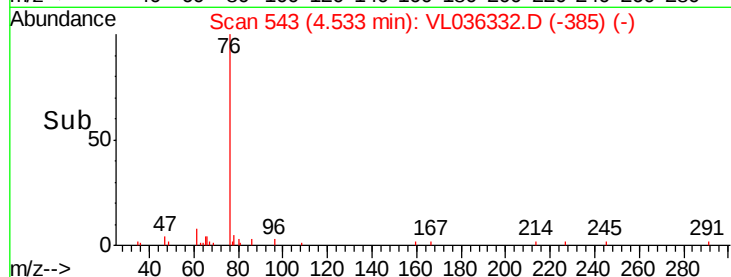
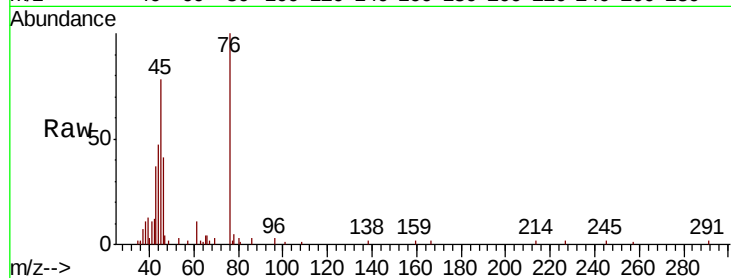
Tot Ion: 76 Resp: 10170

Ion Ratio Lower Upper

76 100

44 89.5 18.4 27.6#

78 0.9 8.0 12.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

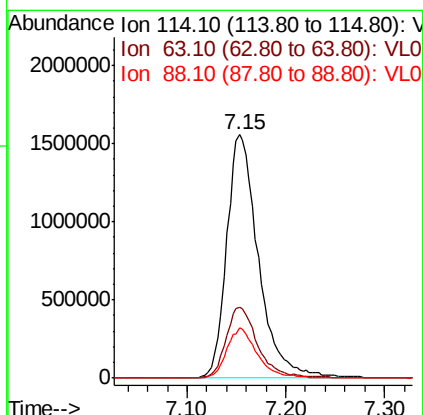
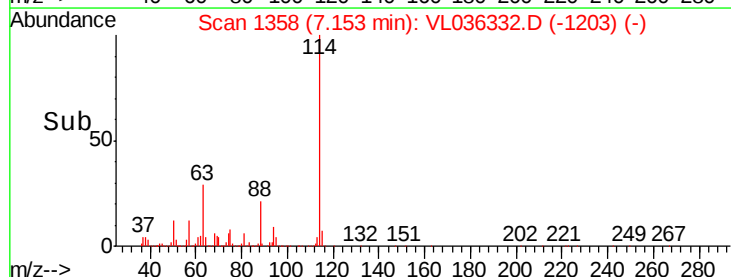
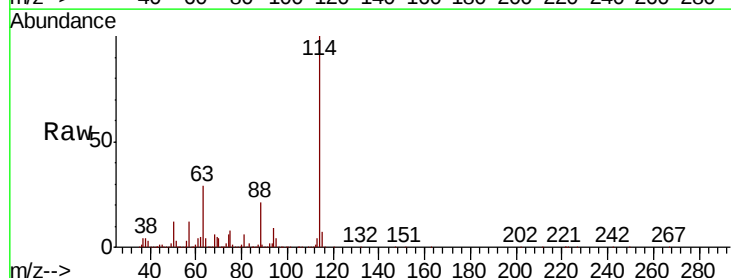
Tgt Ion: 114 Resp: 3505197

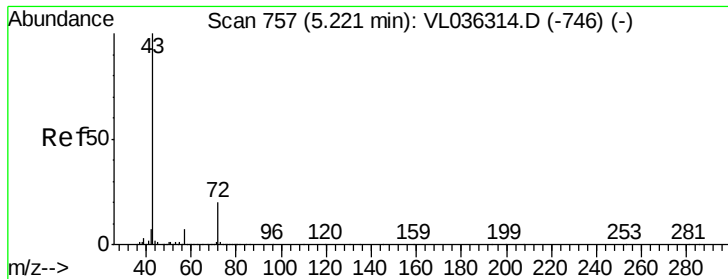
Ion Ratio Lower Upper

114 100

63 29.5 24.1 36.1

88 20.1 16.0 24.0

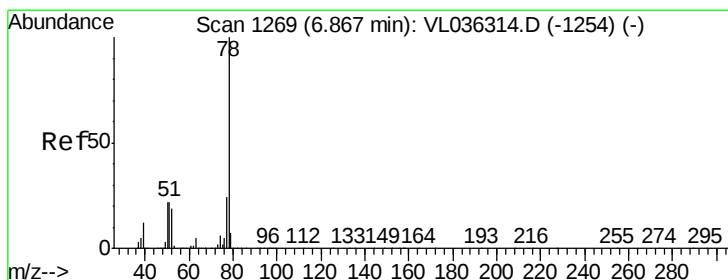
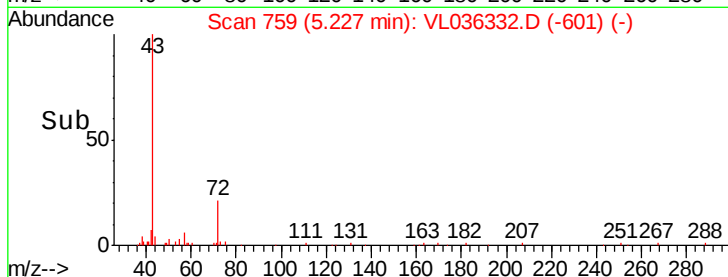
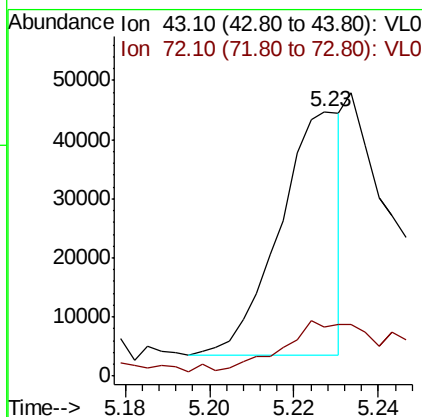
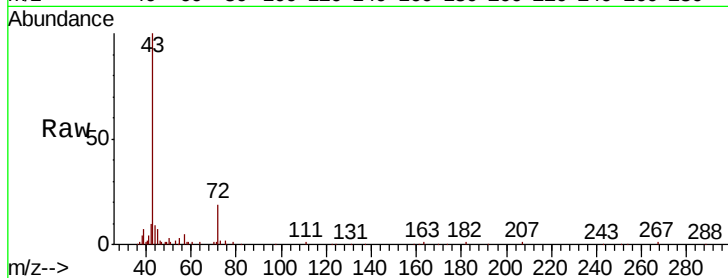




#34
2-Butanone
Concen: 0.179 ppbv
RT: 5.23 min Scan# 759
Delta R.T. 0.01 min
Lab File: VL036332.D
Acq: 11 Feb 2021 00:34

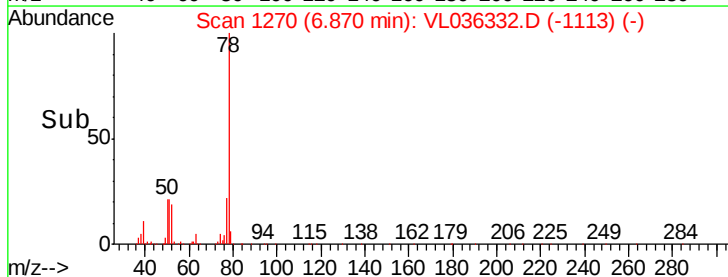
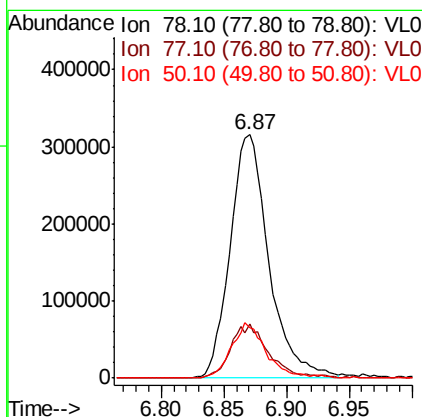
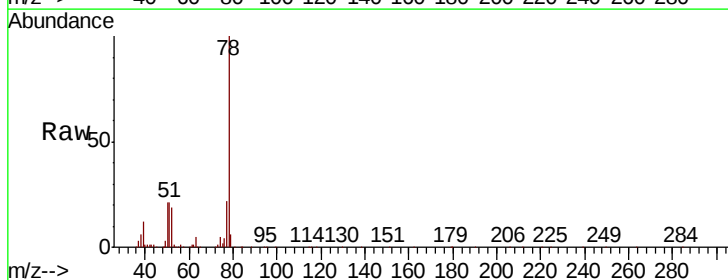
Instrument :
MSVOA_L
ClientSampled :

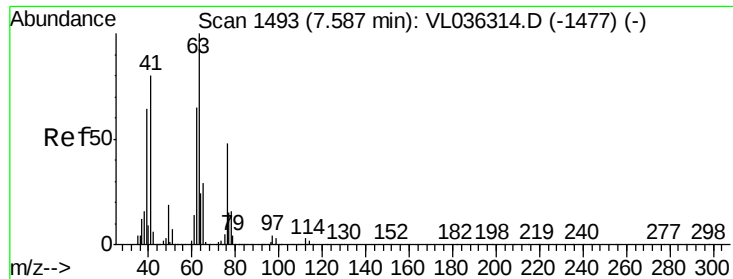
Tot Ion: 43 Resp: 41651
Ion Ratio Lower Upper
43 100
72 48.8 16.7 25.1#



#36
Benzene
Concen: 2.273 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VL036332.D
Acq: 11 Feb 2021 00:34

Tgt Ion: 78 Resp: 676865
Ion Ratio Lower Upper
78 100
77 21.8 18.9 28.3
50 20.8 17.3 25.9

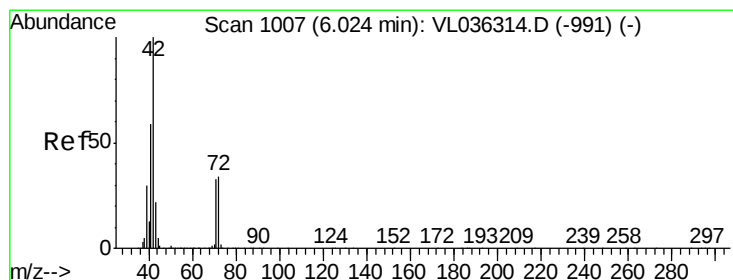
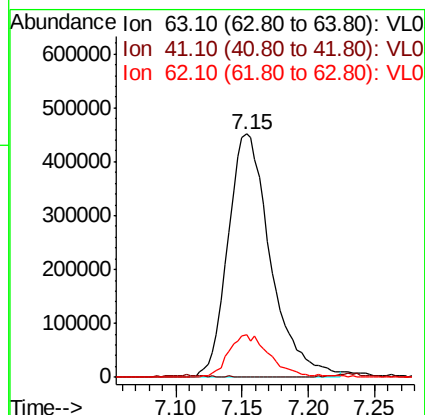
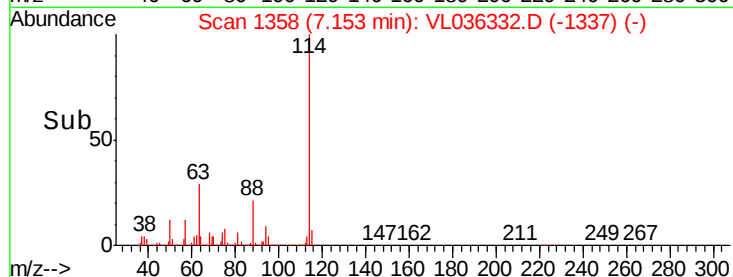
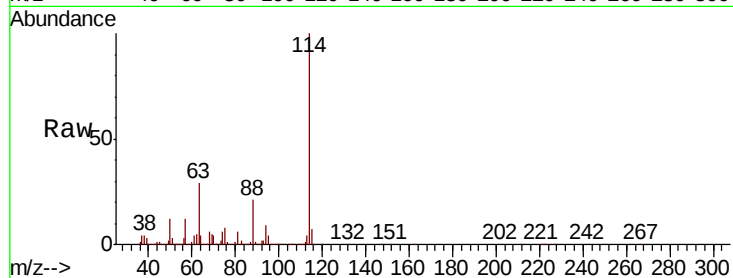




#39
 1,2-Dichloropropane
 Concen: 8.330 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.43 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

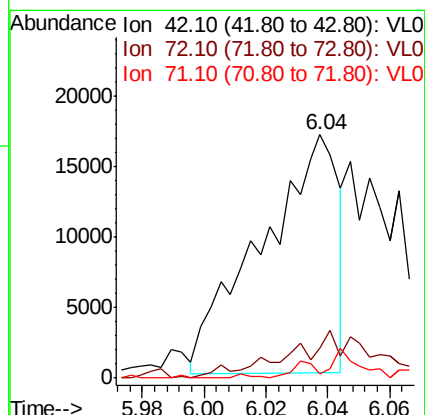
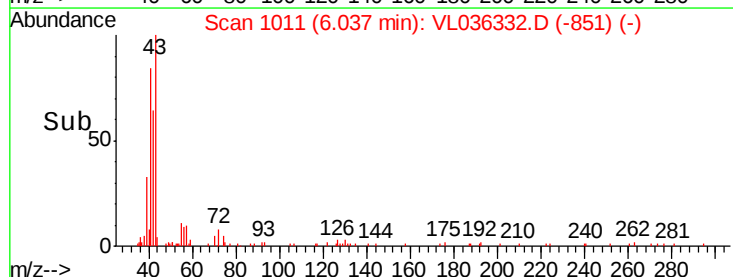
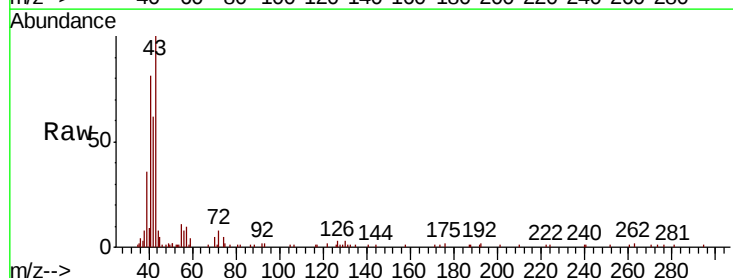
Instrument :
 MSVOA_L
 ClientSampleId :

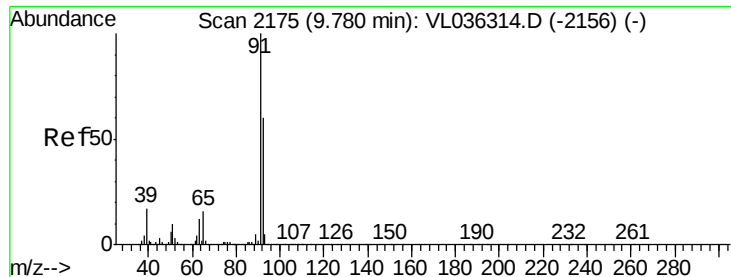
Tot Ion: 63 Resp: 1007490
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 17.7 52.3 78.5#



#41
 Tetrahydrofuran
 Concen: 0.226 ppbv
 RT: 6.04 min Scan# 1011
 Delta R.T. 0.01 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

Tgt Ion: 42 Resp: 29334
 Ion Ratio Lower Upper
 42 100
 72 30.0 29.3 43.9
 71 0.0 27.8 41.8#





#53

Toluene

Concen: 0.618 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. 0.00 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

Instrument :

MSVOA_L

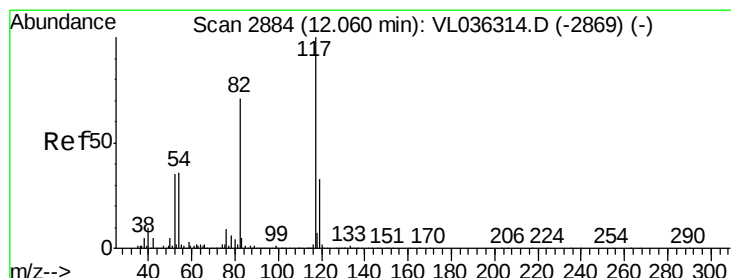
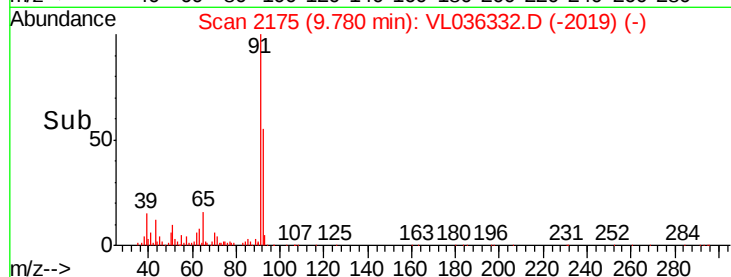
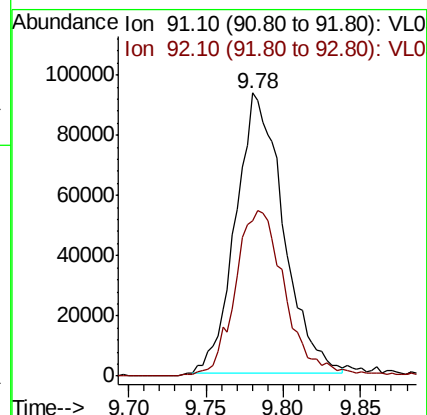
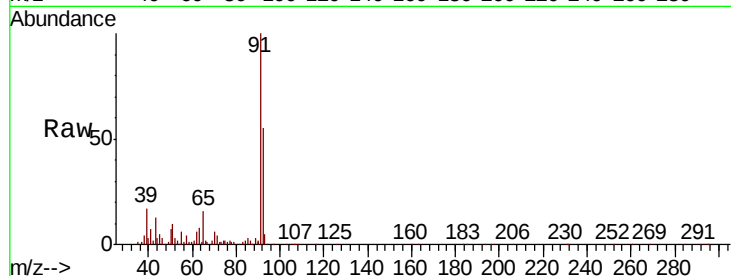
ClientSampleId :

Tot Ion: 91 Resp: 199216

Ion Ratio Lower Upper

91 100

92 62.8 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL036332.D

Acq: 11 Feb 2021 00:34

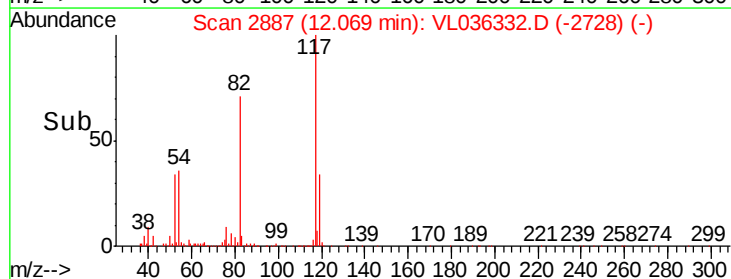
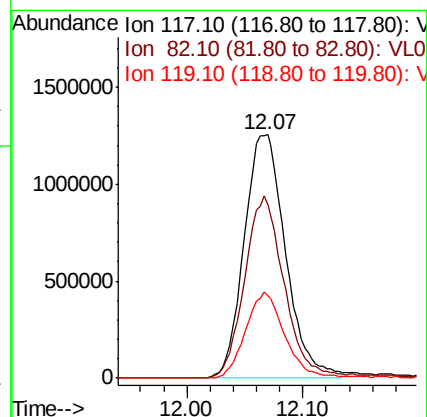
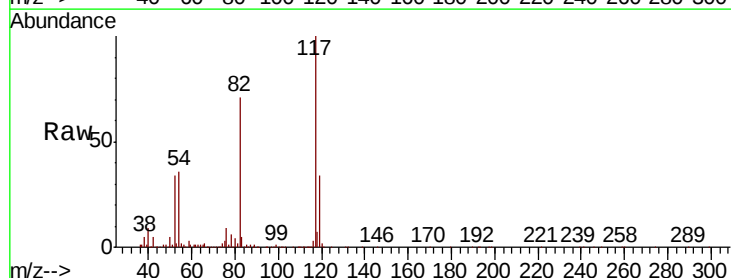
Tgt Ion: 117 Resp: 3112580

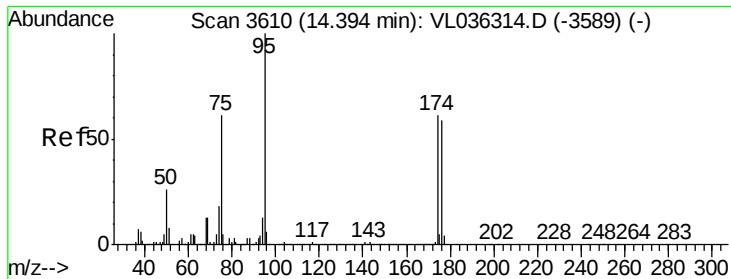
Ion Ratio Lower Upper

117 100

82 72.9 59.1 88.7

119 34.2 46.3 69.5#

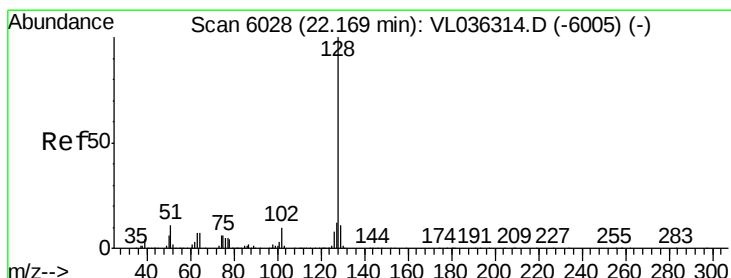
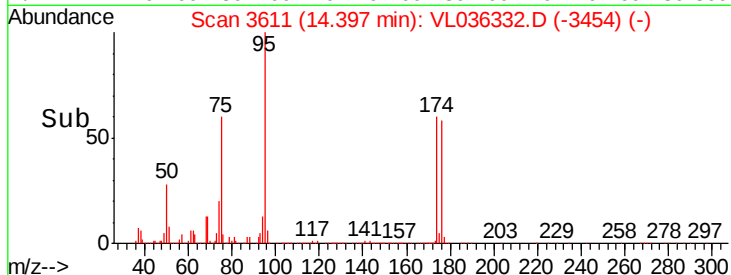
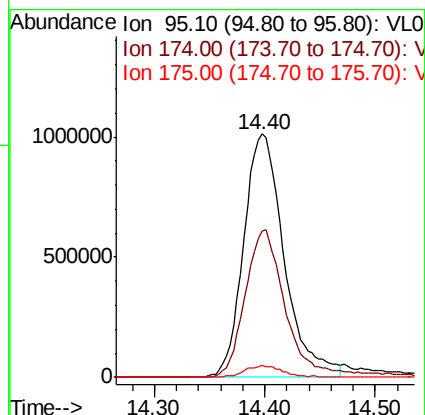
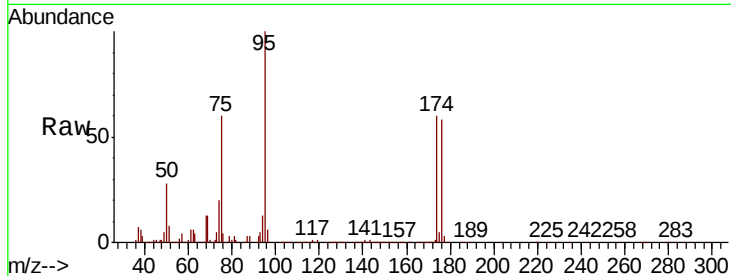




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.084 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 95 Resp: 2582342
 Ion Ratio Lower Upper
 95 100
 174 62.8 49.8 74.6
 175 4.6 3.7 5.5



#79
 Naphthalene
 Concen: 0.040 ppbv
 RT: 22.18 min Scan# 6031
 Delta R.T. 0.01 min
 Lab File: VL036332.D
 Acq: 11 Feb 2021 00:34

Tgt Ion: 128 Resp: 9232
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.6 14.4#
 129 28.7 8.5 12.7#

