

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036612.D
 Acq On : 31 Mar 2021 21:55
 Operator : SY/AP
 Sample : M1807-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:30:05 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1606925	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3894935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3533006	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2772057	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

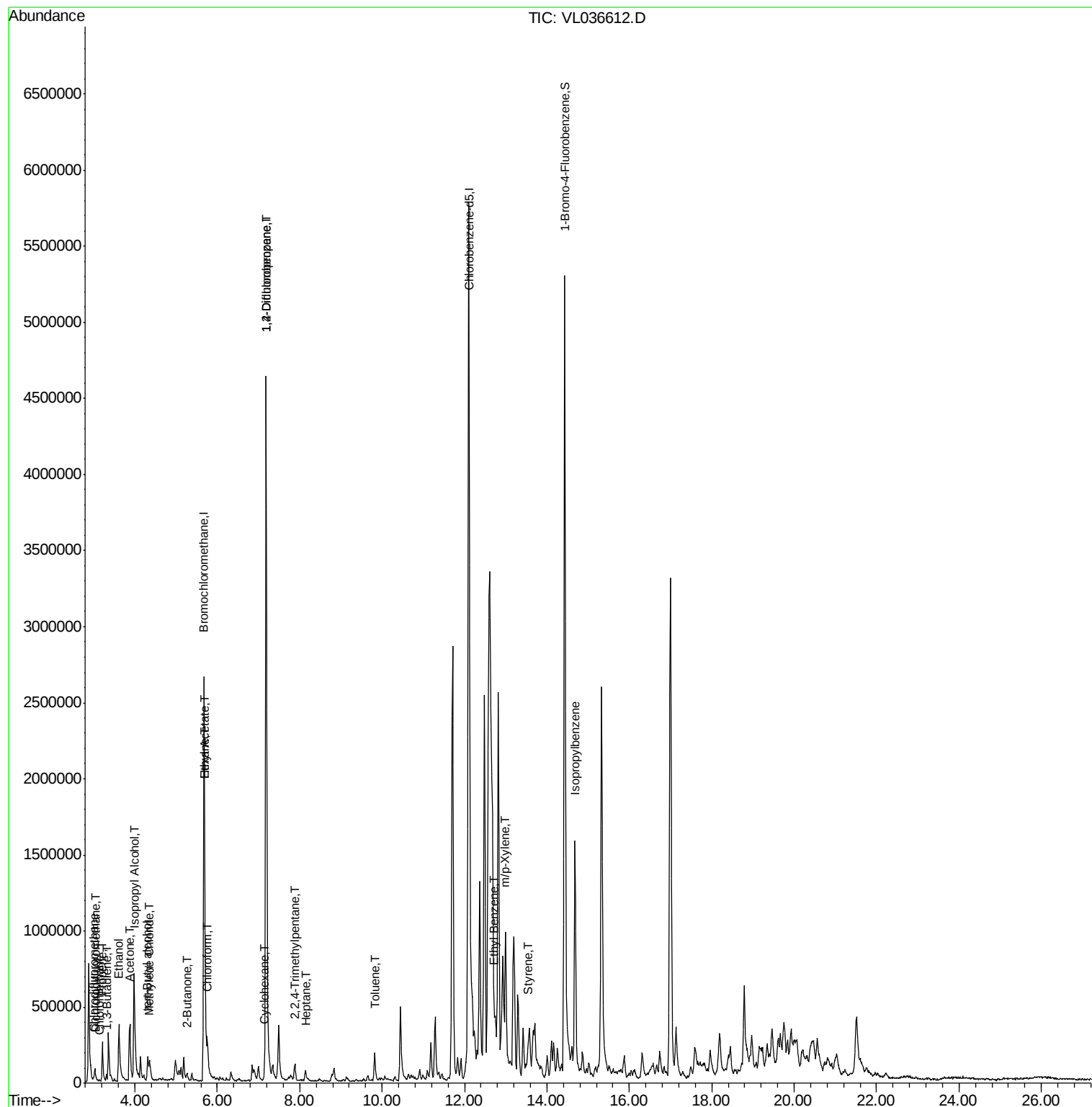
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	9419	0.036 ppbv	96
3) Chlorodifluoromethane	2.99	51	27082	0.090 ppbv #	88
4) Chloromethane	3.15	50	4838	0.046 ppbv #	75
9) Propene	3.21	41	78198	0.817 ppbv	89
10) Heptane	8.13	43	9511	0.039 ppbv #	28
13) Ethanol	3.61	45	532544	46.723 ppbv	94
15) Acetone	3.86	43	431698	2.730 ppbv	97
16) 1,3-Butadiene	3.32	39	3916	0.036 ppbv #	44
17) tert-Butyl alcohol	4.31	59	139399	1.012 ppbv #	85
19) Isopropyl Alcohol	3.98	45	1063671	12.226 ppbv #	95
20) Methylene Chloride	4.35	84	28837	0.389 ppbv	93
25) Ethyl Acetate	5.70	43	21553	0.057 ppbv #	82
26) Hexane	5.70	57	52630	0.302 ppbv #	50
29) Chloroform	5.76	83	122925	0.440 ppbv	89
30) Cyclohexane	7.14	84	3449	0.024 ppbv #	1
34) 2-Butanone	5.26	43	48903	0.257 ppbv #	70
39) 1,2-Dichloropropane	7.18	63	1038684	7.128 ppbv #	23
44) 2,2,4-Trimethylpentane	7.88	57	68109	0.108 ppbv #	67
53) Toluene	9.82	91	125143	0.327 ppbv	98
58) Ethyl Benzene	12.73	91	23186	0.045 ppbv	93
59) m/p-Xylene	13.00	91	29756	0.066 ppbv #	32
61) Styrene	13.54	104	36497	0.167 ppbv #	30
62) Isopropylbenzene	14.68	105	1367637	2.343 ppbv	98

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

ClientSampleId :

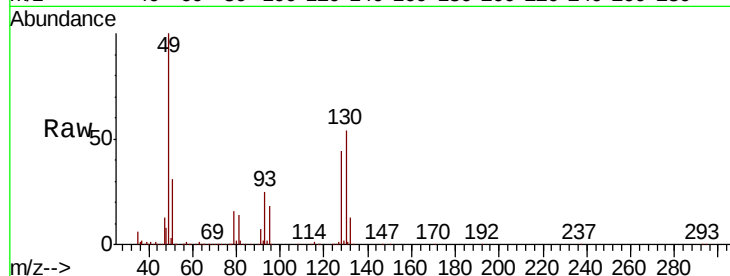
Tot Ion: 49 Resp: 1606925

Ion Ratio Lower Upper

49 100

128 46.5 23.5 70.6

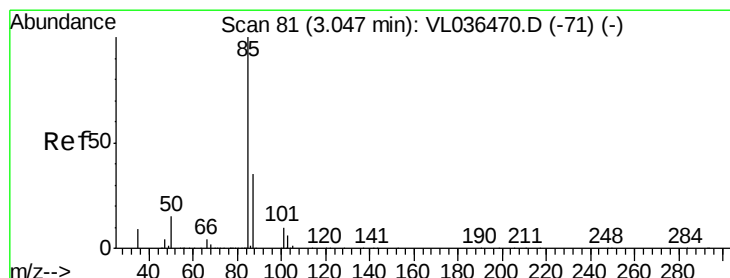
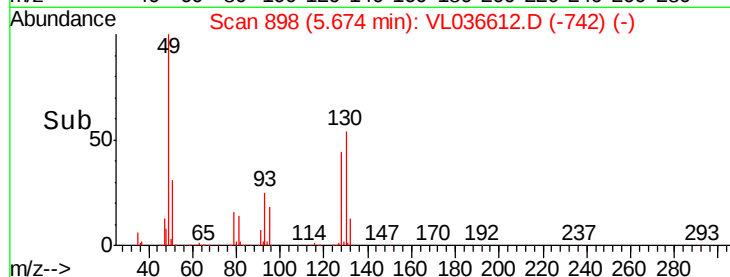
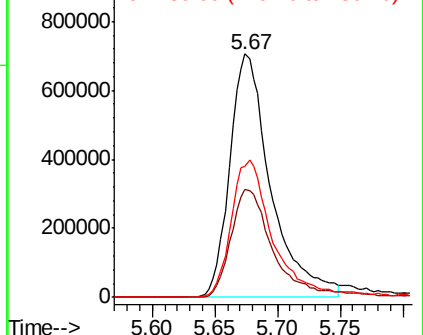
130 59.5 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036612.D

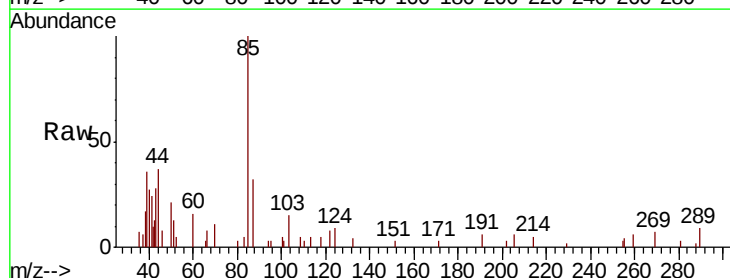
Acq: 31 Mar 2021 21:55

Tgt Ion: 85 Resp: 9419

Ion Ratio Lower Upper

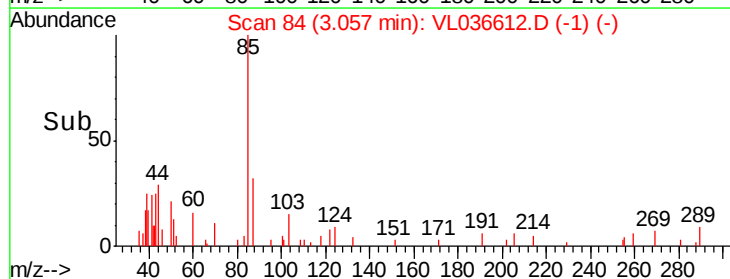
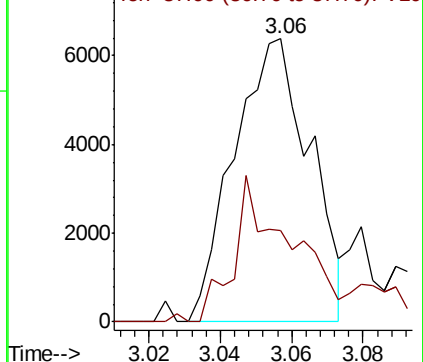
85 100

87 32.4 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.090 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

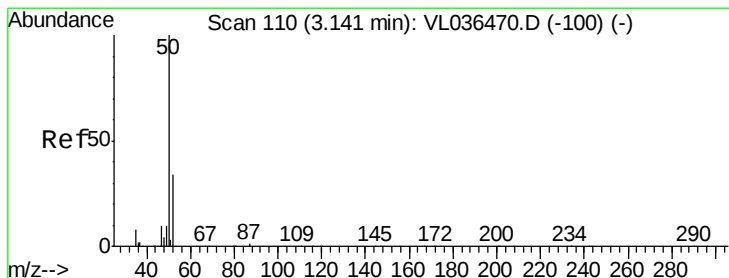
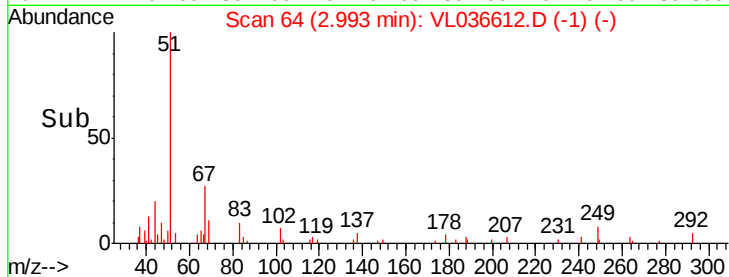
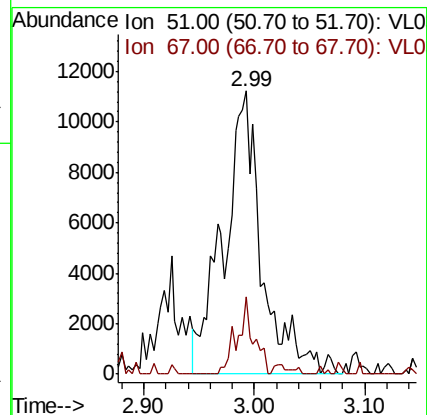
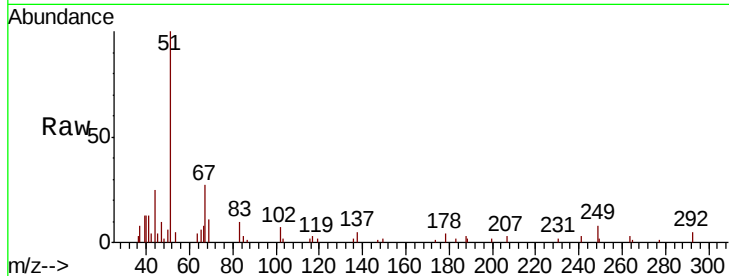
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 27082

Ion Ratio Lower Upper

51 100

67 13.0 14.7 22.1#



#4

Chloromethane

Concen: 0.046 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036612.D

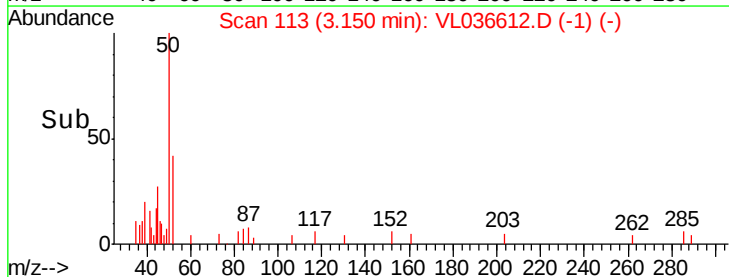
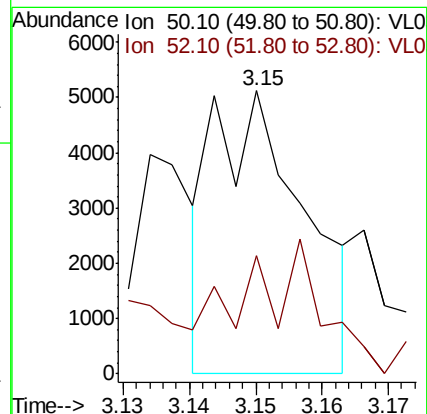
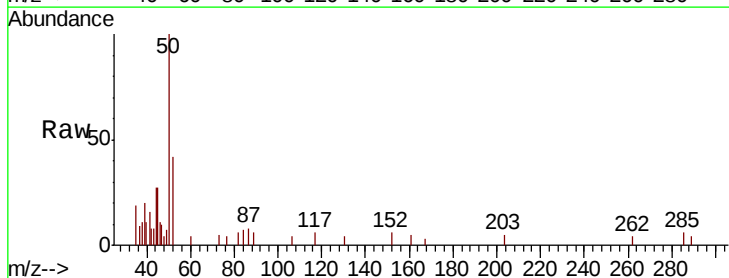
Acq: 31 Mar 2021 21:55

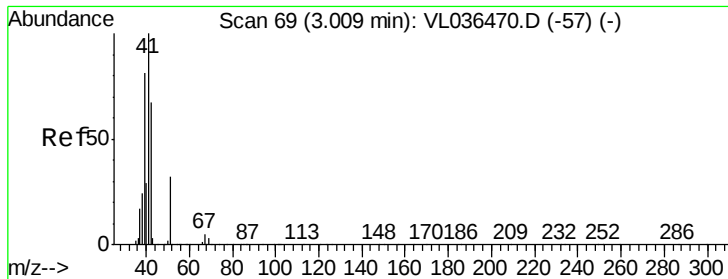
Tgt Ion: 50 Resp: 4838

Ion Ratio Lower Upper

50 100

52 48.2 27.0 40.6#





#9

Propene

Concen: 0.817 ppbv

RT: 3.21 min Scan# 131

Delta R.T. 0.20 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

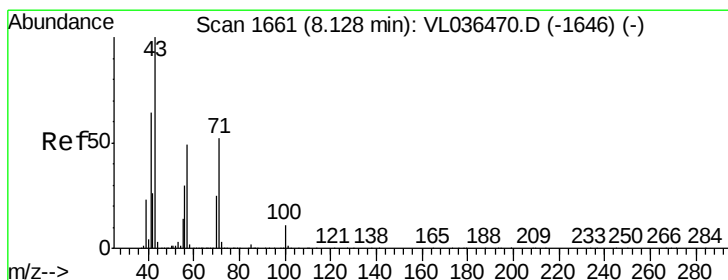
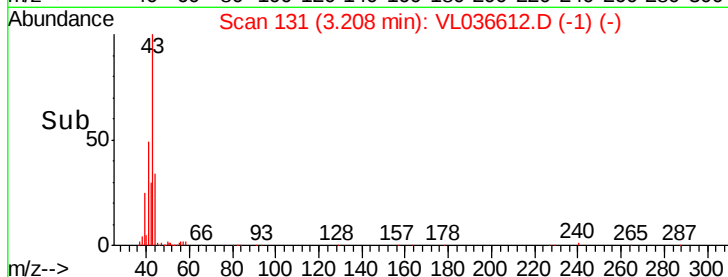
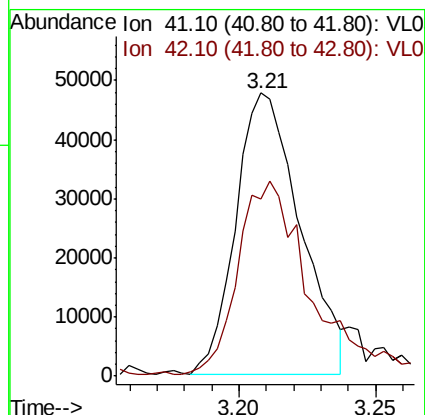
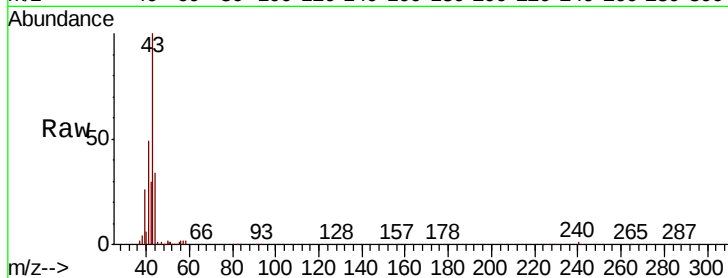
ClientSampleId :

Tot Ion: 41 Resp: 78198

Ion Ratio Lower Upper

41 100

42 80.2 57.0 85.4



#10

Heptane

Concen: 0.039 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL036612.D

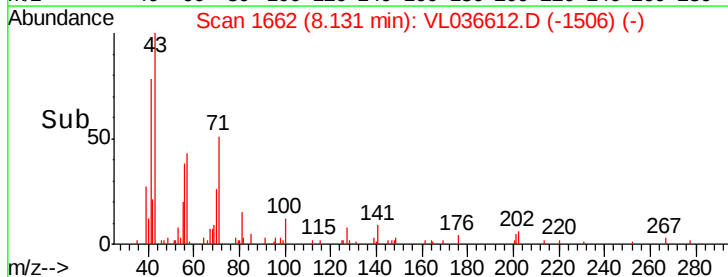
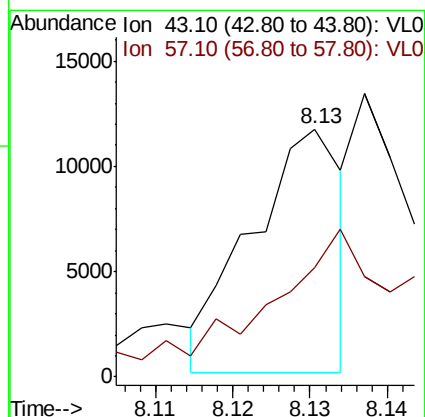
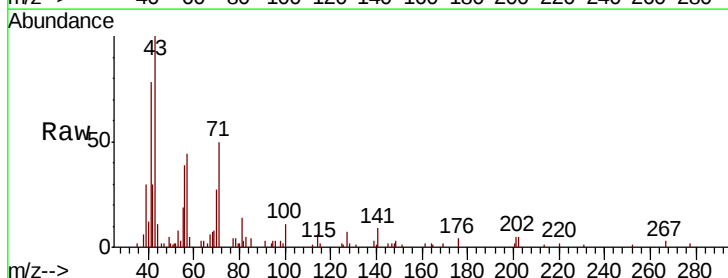
Acq: 31 Mar 2021 21:55

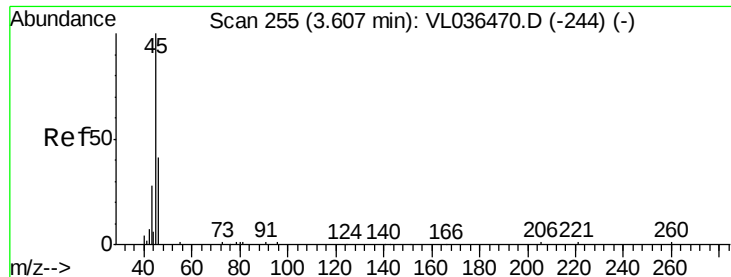
Tgt Ion: 43 Resp: 9511

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#

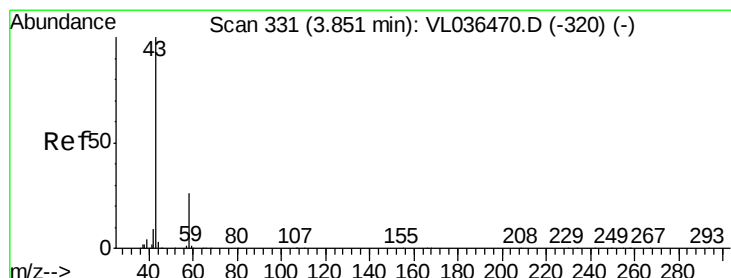
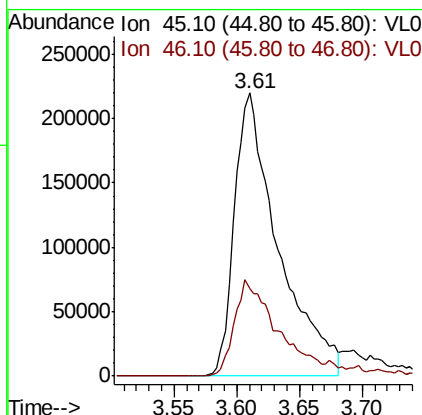
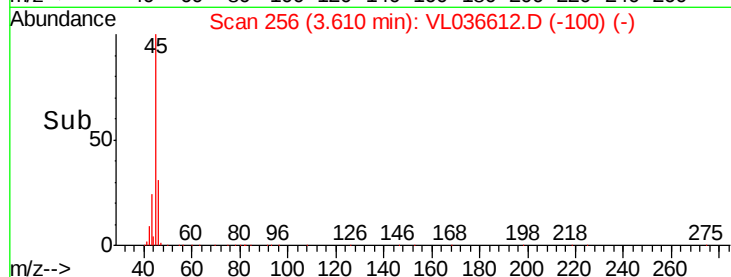
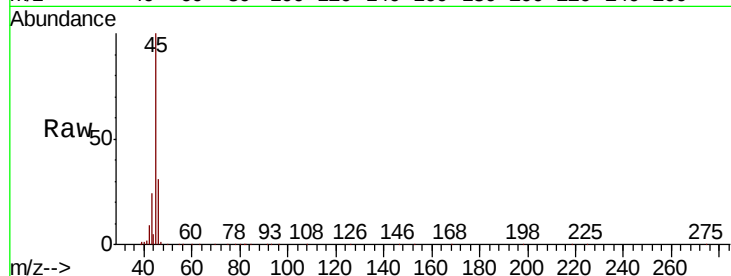




#13
Ethanol
Concen: 46.723 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036612.D
Acq: 31 Mar 2021 21:55

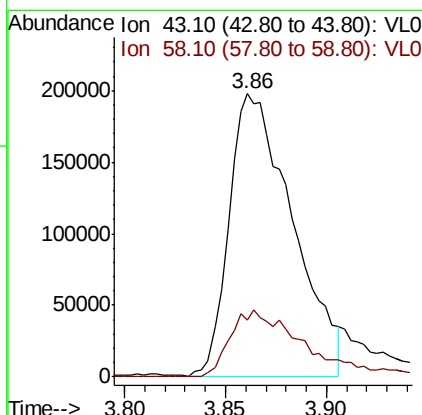
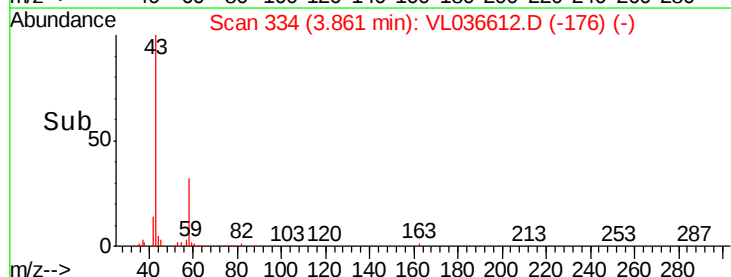
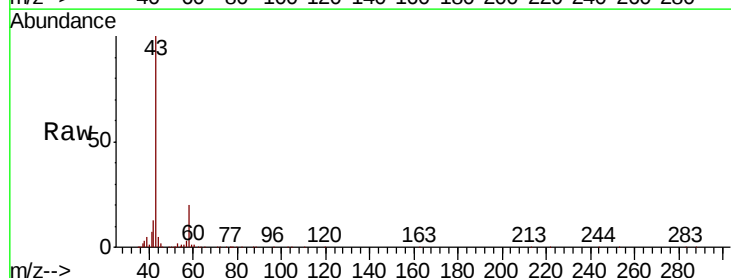
Instrument :
MSVOA_L
ClientSampleId :

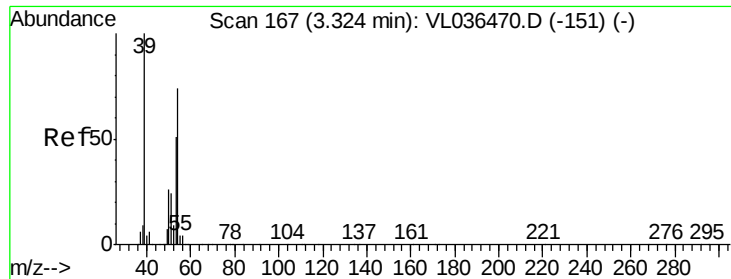
Tot Ion: 45 Resp: 532544
Ion Ratio Lower Upper
45 100
46 37.6 16.6 66.2



#15
Acetone
Concen: 2.730 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL036612.D
Acq: 31 Mar 2021 21:55

Tgt Ion: 43 Resp: 431698
Ion Ratio Lower Upper
43 100
58 28.0 21.2 31.8

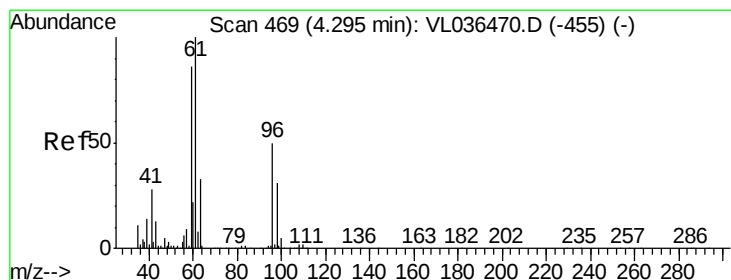
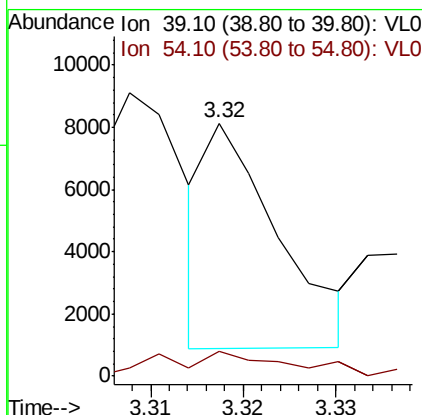
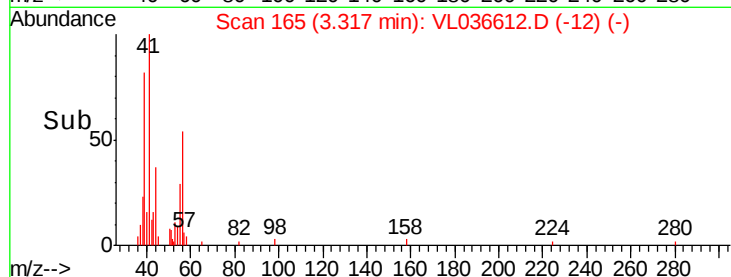
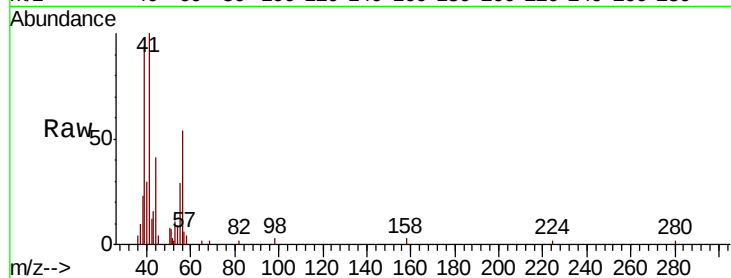




#16
 1,3-Butadiene
 Concen: 0.036 ppbv
 RT: 3.32 min Scan# 165
 Delta R.T. -0.01 min
 Lab File: VL036612.D
 Acq: 31 Mar 2021 21:55

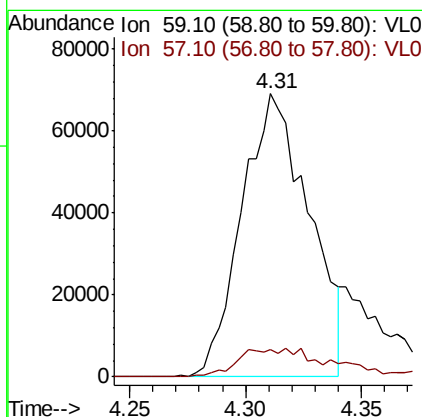
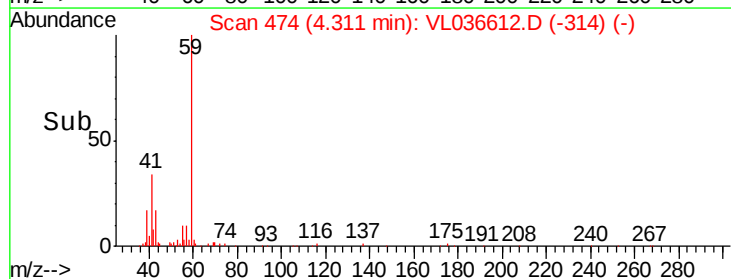
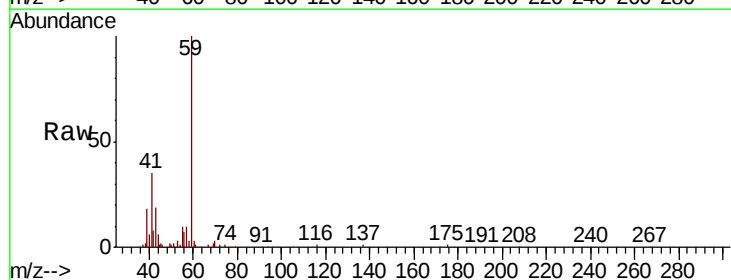
Instrument :
 MSVOA_L
 ClientSampleId :

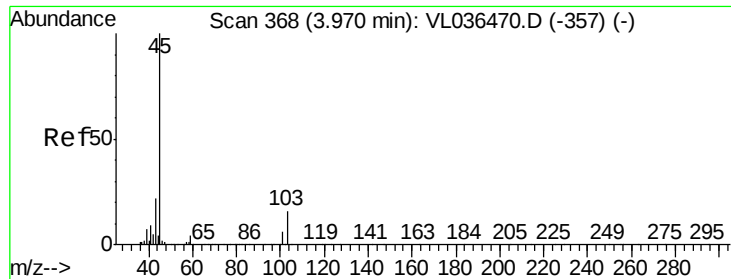
Tot Ion: 39 Resp: 3916
 Ion Ratio Lower Upper
 39 100
 54 26.7 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 1.012 ppbv
 RT: 4.31 min Scan# 474
 Delta R.T. 0.02 min
 Lab File: VL036612.D
 Acq: 31 Mar 2021 21:55

Tgt Ion: 59 Resp: 139399
 Ion Ratio Lower Upper
 59 100
 57 16.2 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 12.226 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

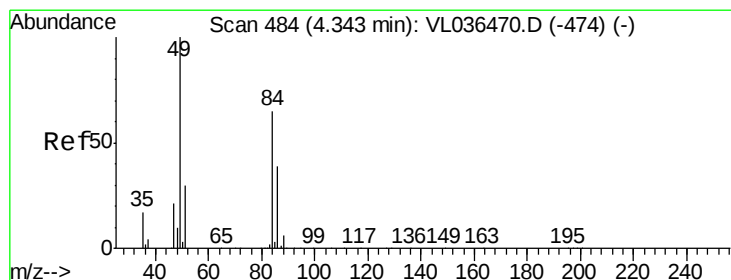
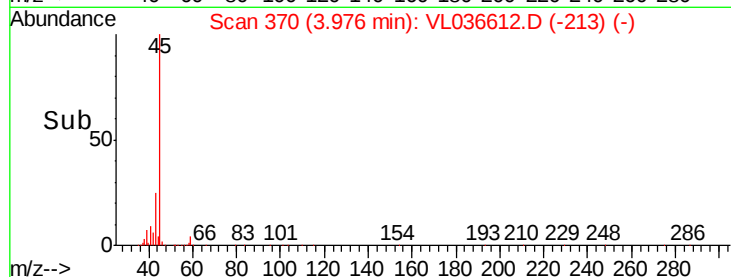
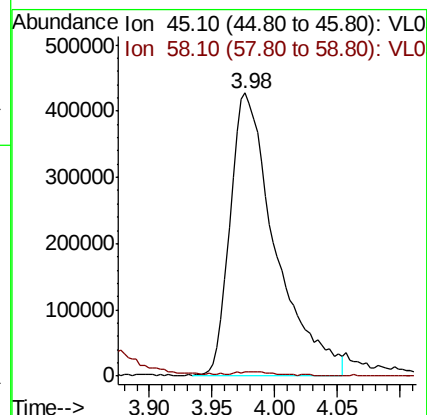
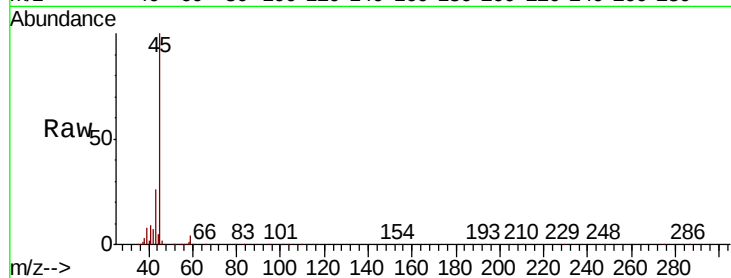
ClientSampleId :

Tot Ion: 45 Resp: 1063671

Ion Ratio Lower Upper

45 100

58 1.8 2.9 4.3#



#20

Methylene Chloride

Concen: 0.389 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Tgt Ion: 84 Resp: 28837

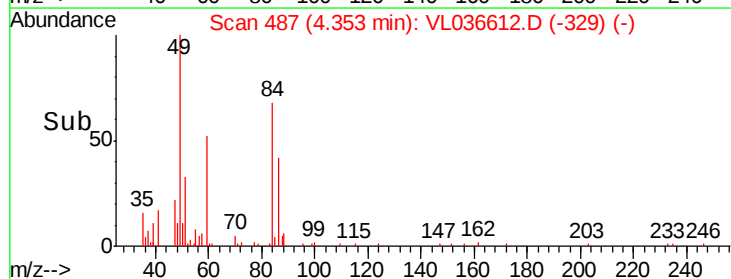
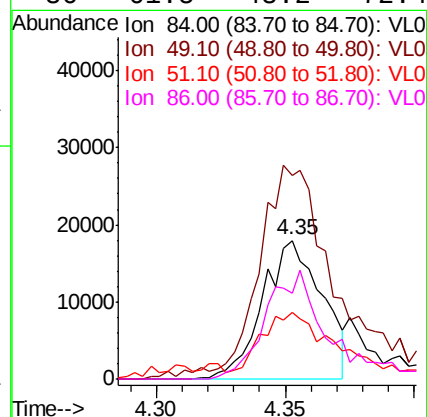
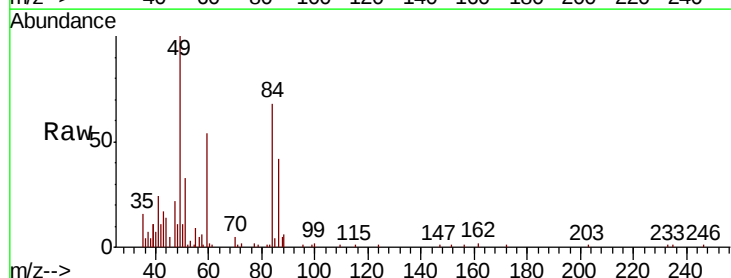
Ion Ratio Lower Upper

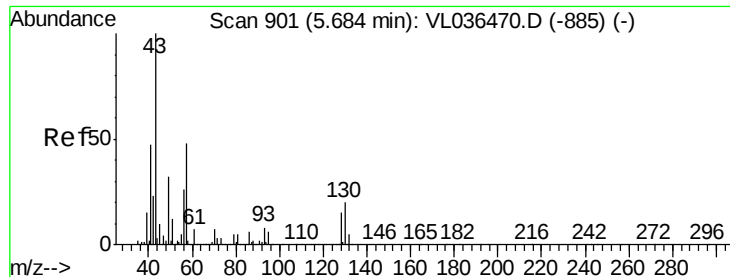
84 100

49 141.4 122.9 184.3

51 42.7 36.9 55.3

86 61.5 48.2 72.4

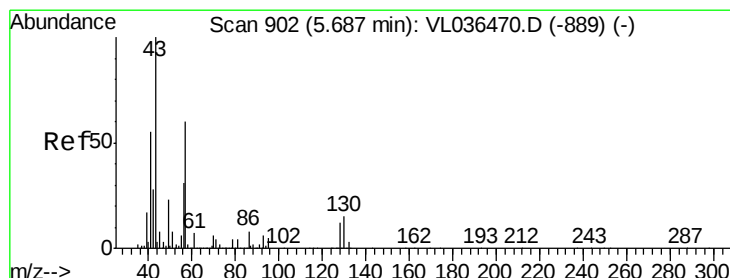
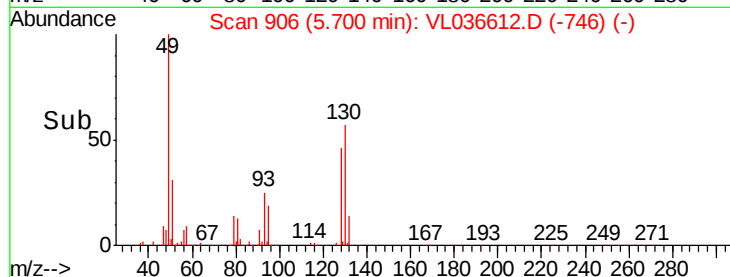
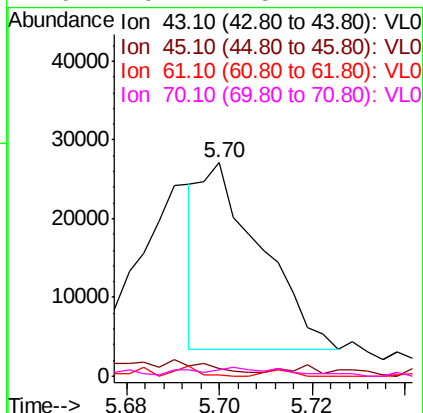
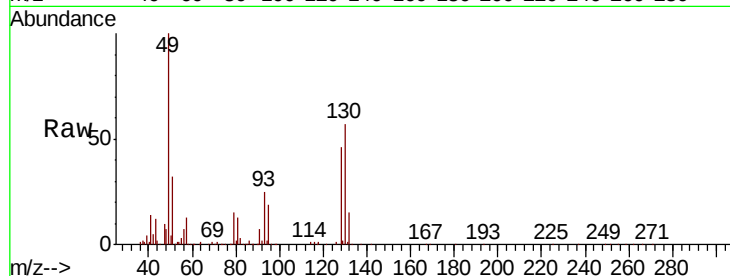




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL036612.D
Acq: 31 Mar 2021 21:55

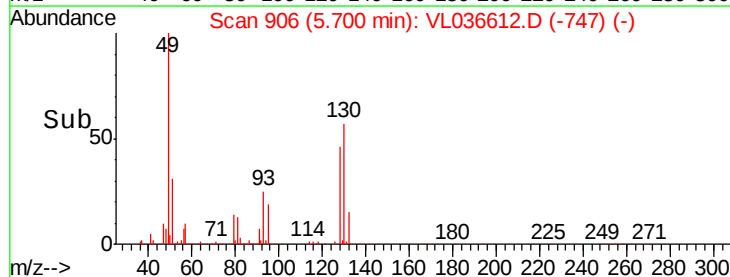
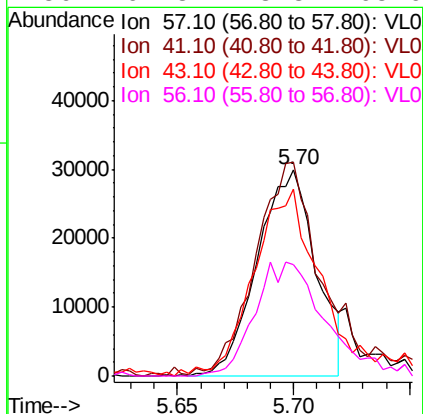
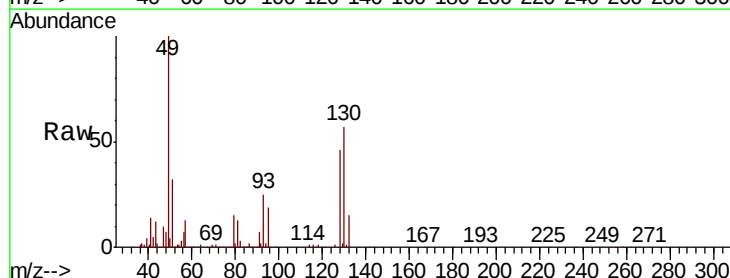
Instrument :
MSVOA_L
ClientSampled :

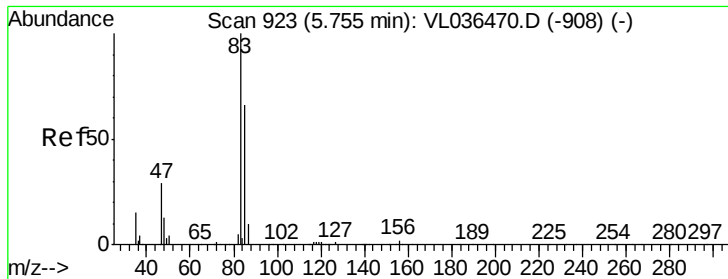
Tot Ion:	43	Resp:	21553
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	3.8	7.4	11.2#
70	9.1	5.1	7.7#



#26
Hexane
Concen: 0.302 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036612.D
Acq: 31 Mar 2021 21:55

Tgt Ion:	57	Resp:	52630
Ion	Ratio	Lower	Upper
57	100		
41	126.6	77.2	115.8#
43	109.7	173.8	260.6#
56	67.8	43.8	65.6#





#29

Chloroform

Concen: 0.440 ppbv

RT: 5.76 min Scan# 924

Delta R.T. 0.00 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

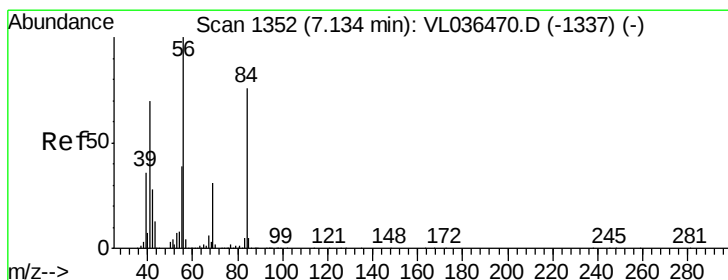
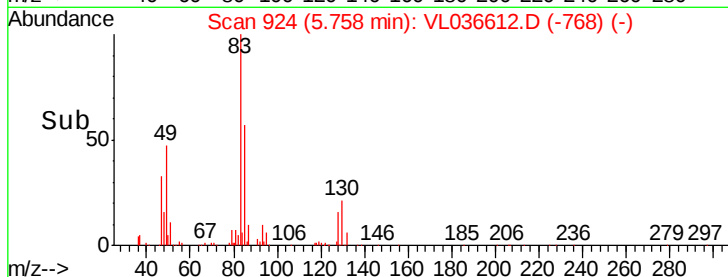
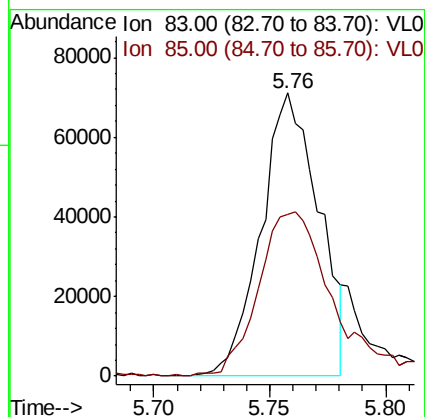
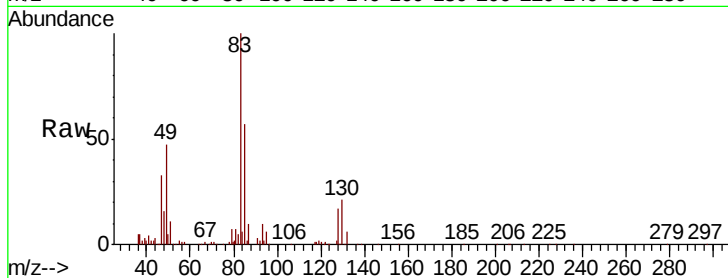
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 83 Resp: 122925

Ion Ratio Lower Upper

83 100

85 57.4 52.6 78.8



#30

Cyclohexane

Concen: 0.024 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

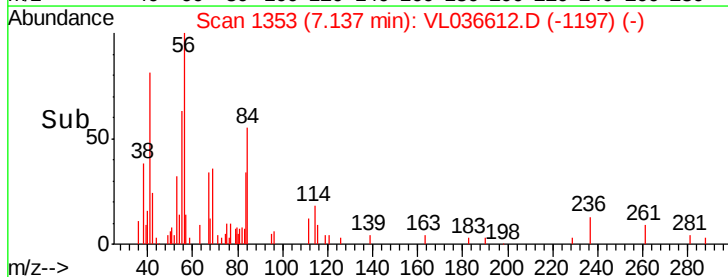
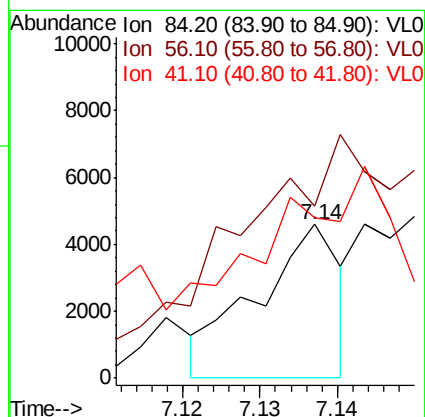
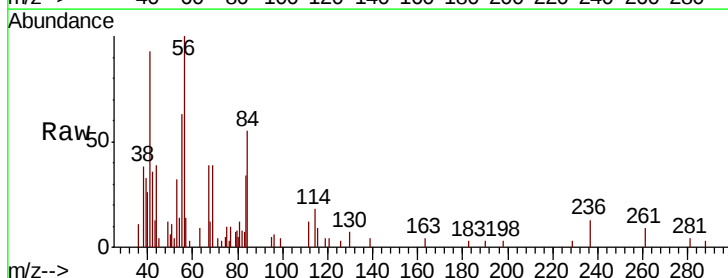
Tgt Ion: 84 Resp: 3449

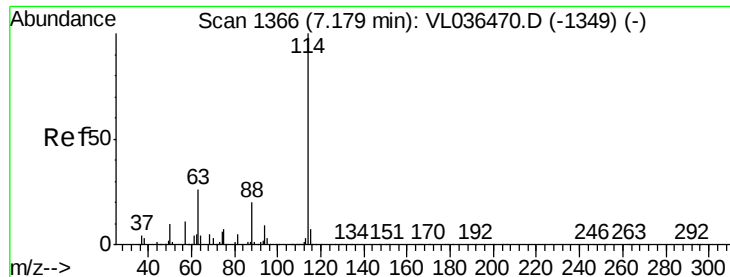
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 0.0 75.3 112.9#

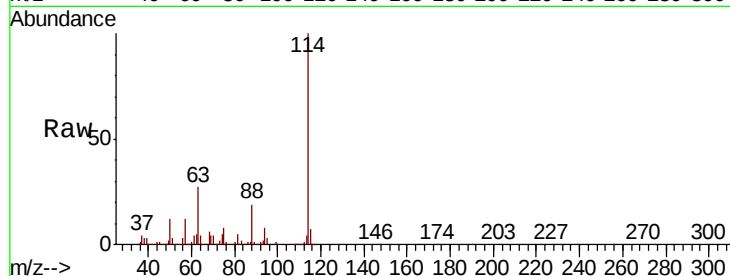




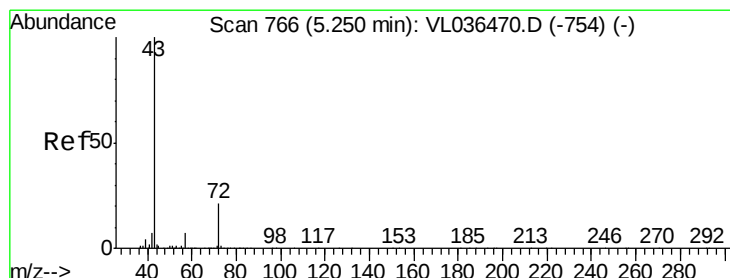
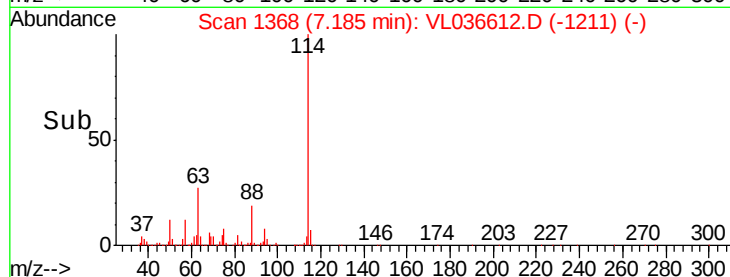
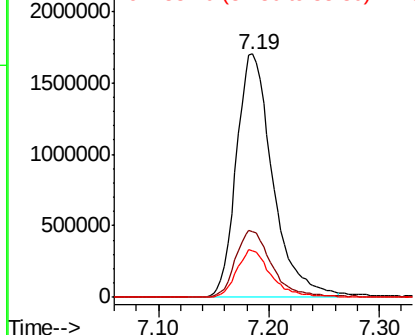
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL036612.D
 Acq: 31 Mar 2021 21:55

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3894935
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.4 33.6
 88 18.8 15.4 23.0

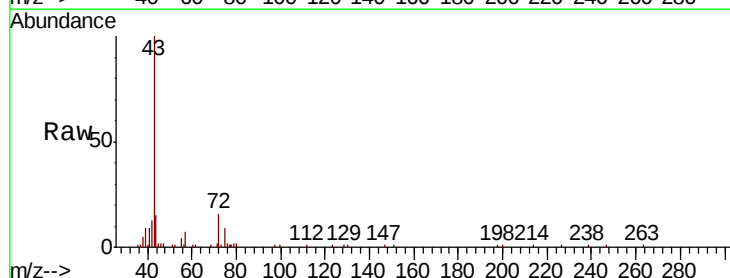


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

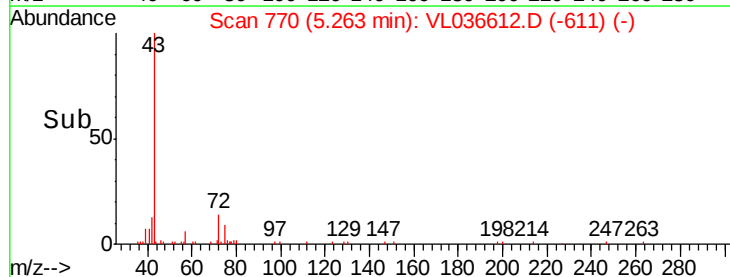
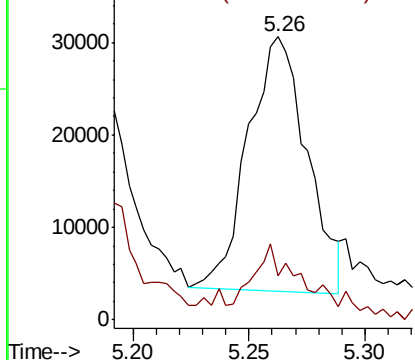


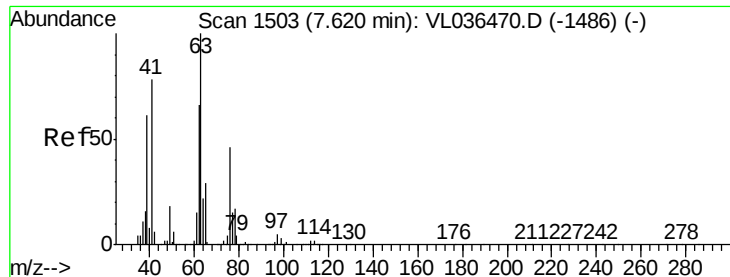
#34
 2-Butanone
 Concen: 0.257 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL036612.D
 Acq: 31 Mar 2021 21:55

Tgt Ion: 43 Resp: 48903
 Ion Ratio Lower Upper
 43 100
 72 35.5 17.0 25.6#



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





#39

1,2-Dichloropropane

Concen: 7.128 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.44 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

ClientSampleId :

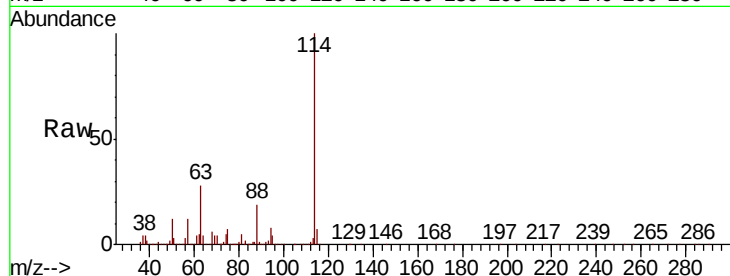
Tot Ion: 63 Resp: 1038684

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

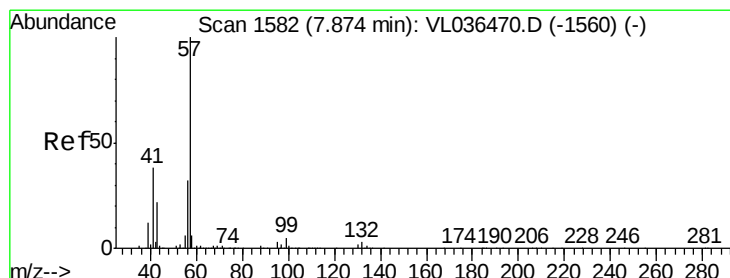
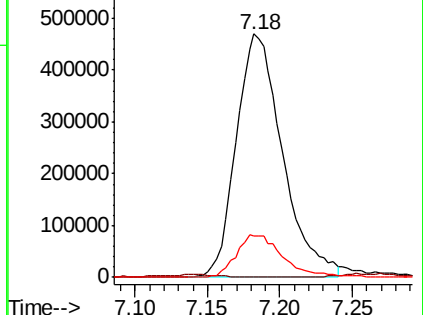
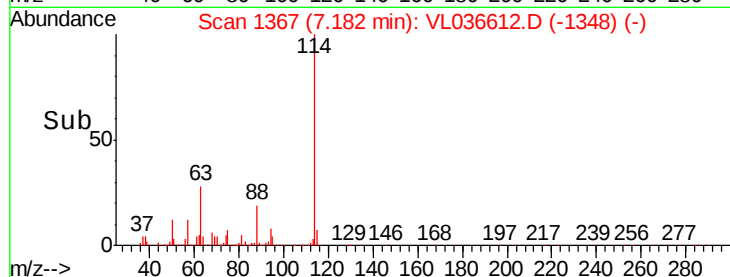
62 17.0 52.8 79.2#



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



#44

2,2,4-Trimethylpentane

Concen: 0.108 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

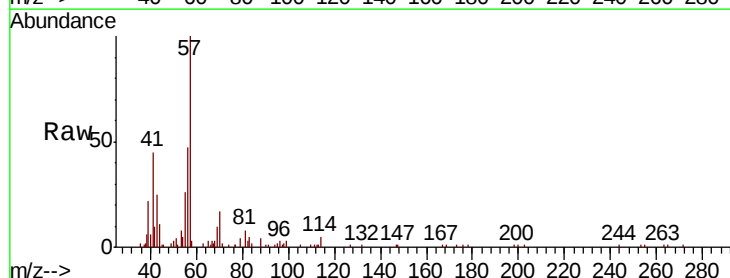
Tgt Ion: 57 Resp: 68109

Ion Ratio Lower Upper

57 100

41 54.3 28.8 43.2#

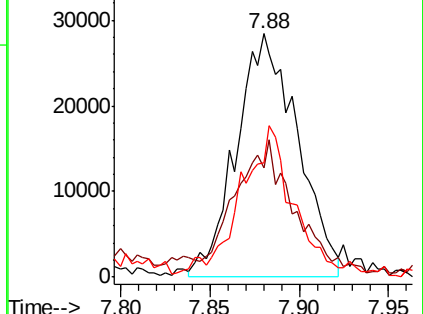
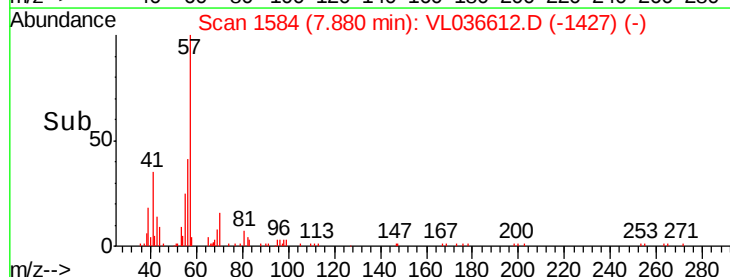
56 52.7 26.1 39.1#

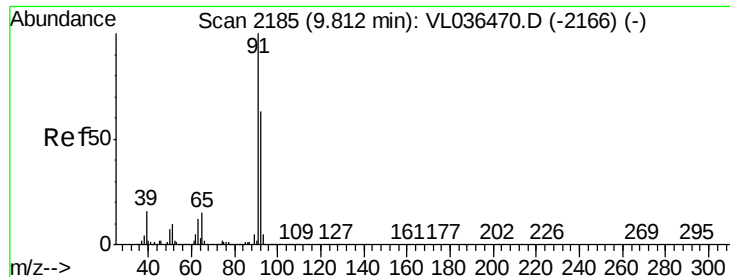


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.327 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

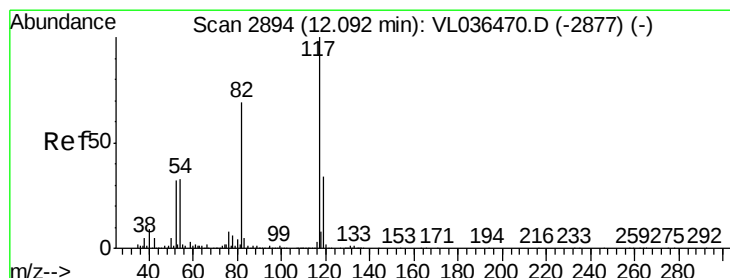
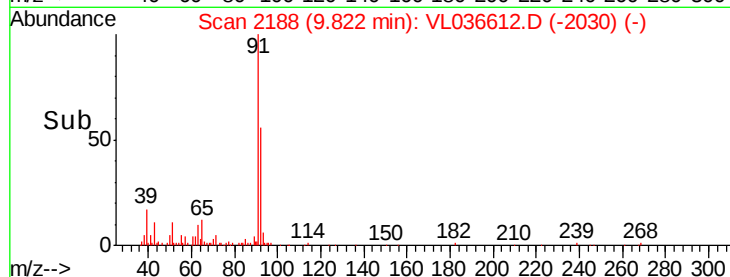
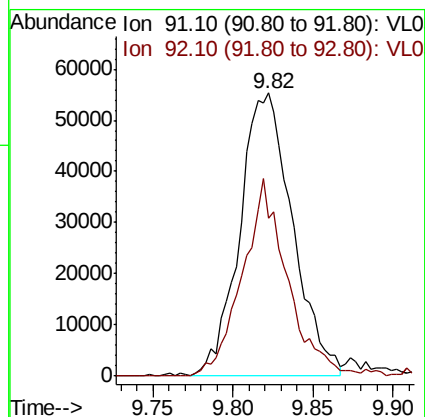
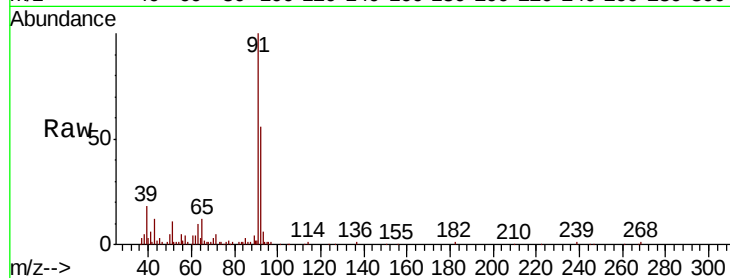
ClientSampleId :

Tot Ion: 91 Resp: 125143

Ion Ratio Lower Upper

91 100

92 59.8 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

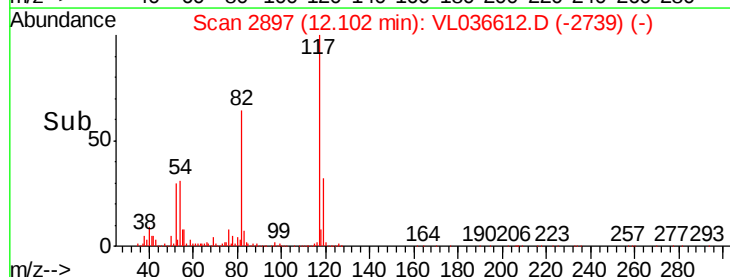
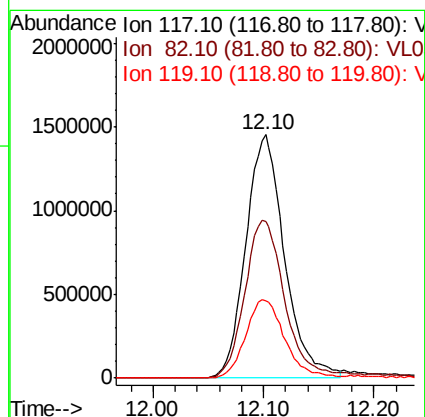
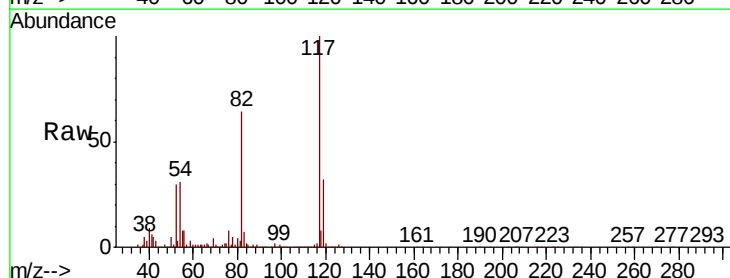
Tgt Ion: 117 Resp: 3533006

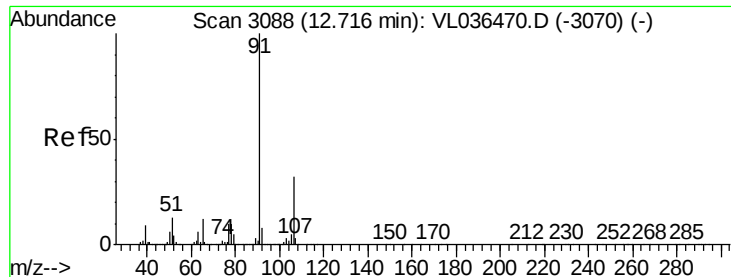
Ion Ratio Lower Upper

117 100

82 69.4 57.4 86.0

119 33.3 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.045 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

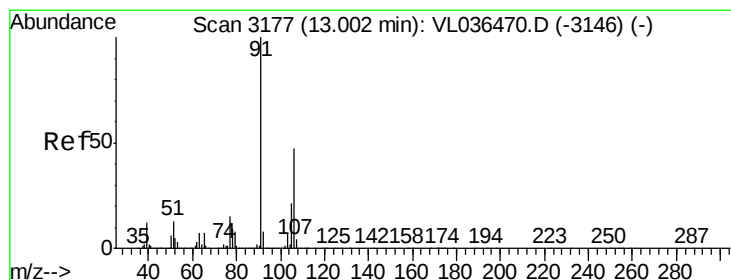
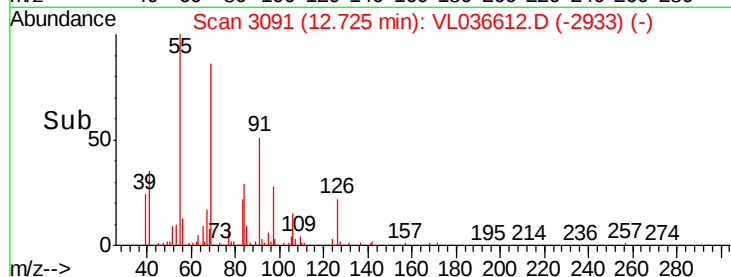
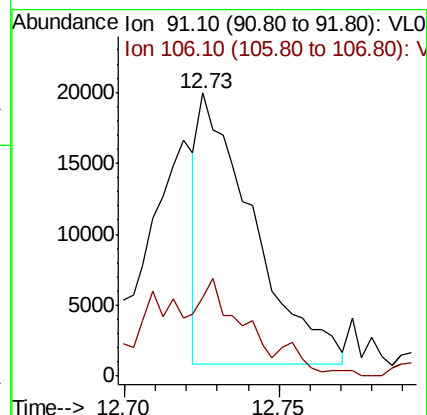
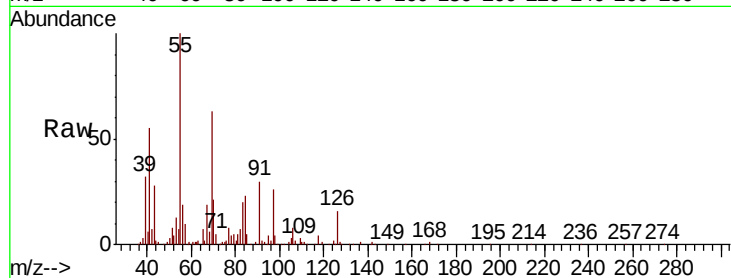
ClientSampleId :

Tot Ion: 91 Resp: 23186

Ion Ratio Lower Upper

91 100

106 28.0 25.3 37.9



#59

m/p-Xylene

Concen: 0.066 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VL036612.D

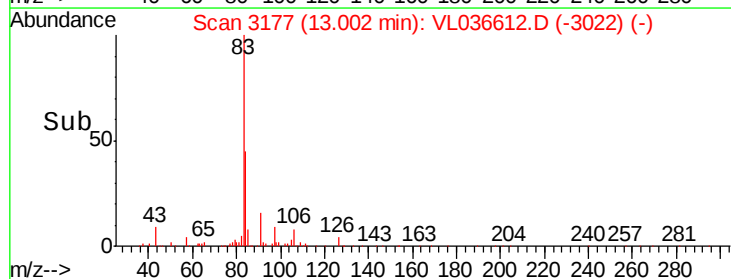
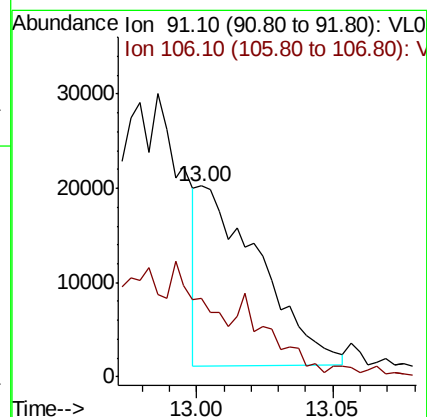
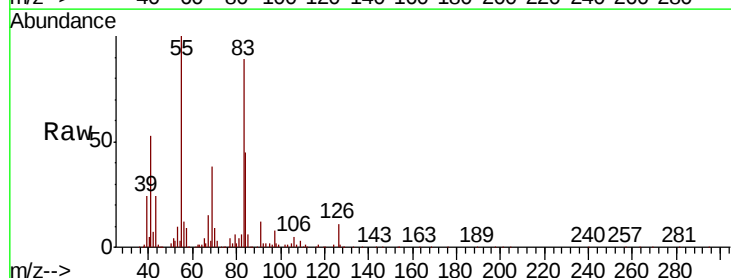
Acq: 31 Mar 2021 21:55

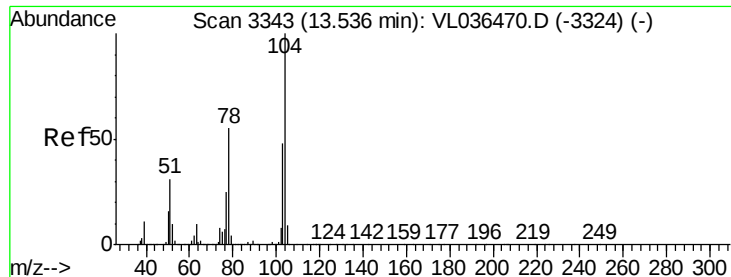
Tgt Ion: 91 Resp: 29756

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#





#61

Stvrene

Concen: 0.167 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

ClientSampled :

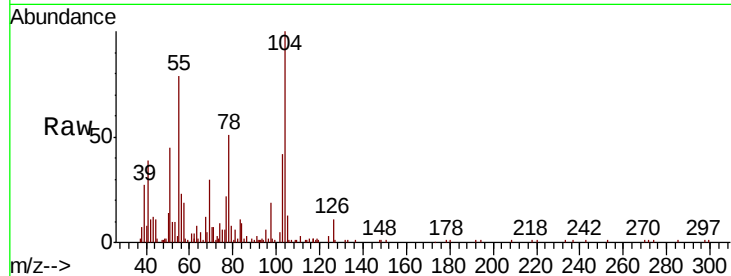
Tot Ion:104 Resp: 36497

Ion Ratio Lower Upper

104 100

78 111.2 43.8 65.8#

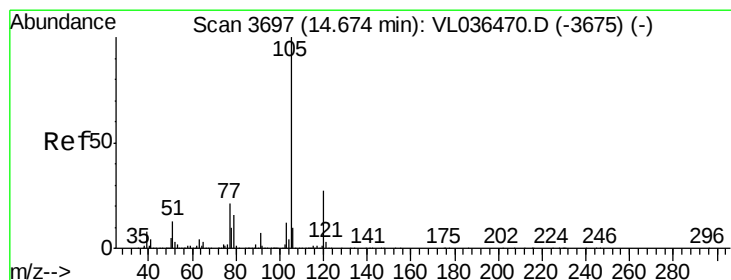
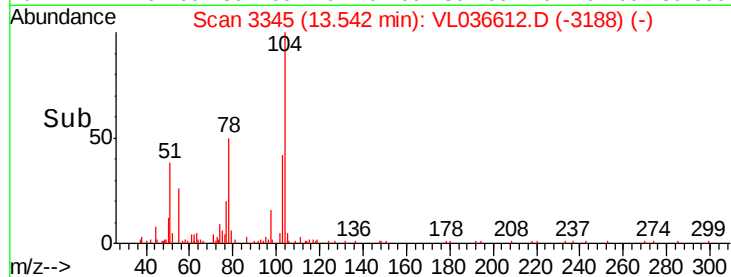
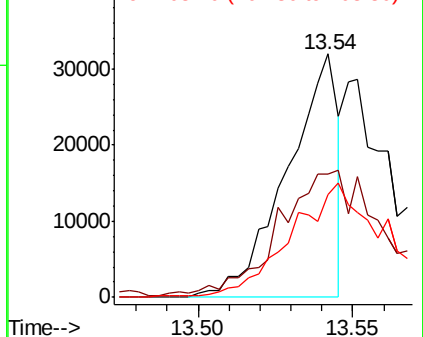
103 89.2 38.3 57.5#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 2.343 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. 0.01 min

Lab File: VL036612.D

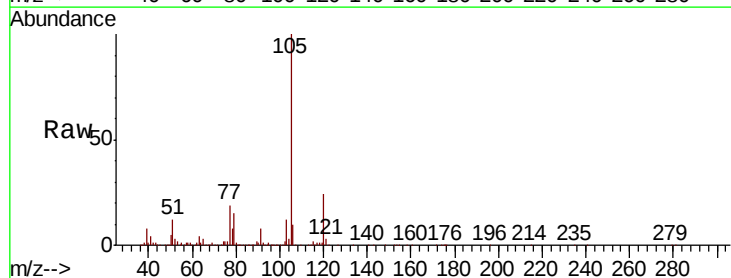
Acq: 31 Mar 2021 21:55

Tgt Ion:105 Resp: 1367637

Ion Ratio Lower Upper

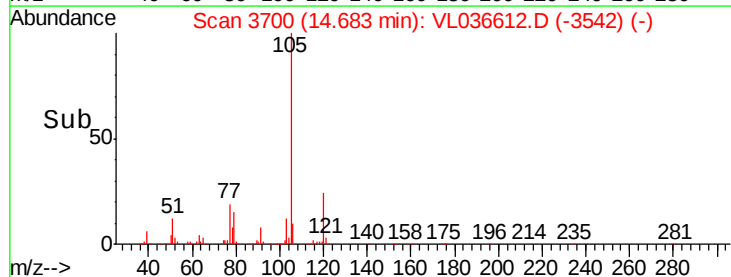
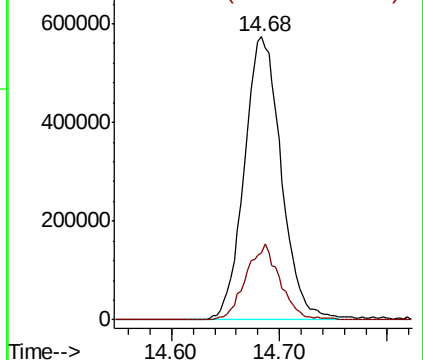
105 100

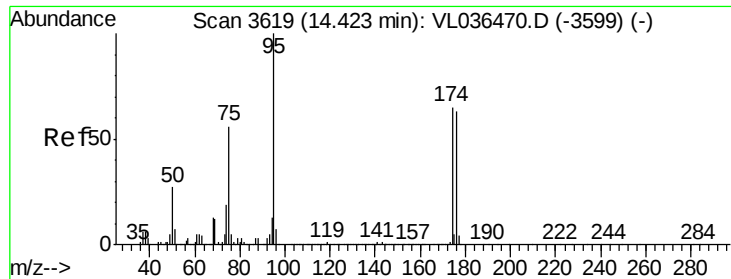
120 24.9 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.845 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.01 min

Lab File: VL036612.D

Acq: 31 Mar 2021 21:55

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2772057

Ion Ratio Lower Upper

95 100

174 67.9 51.0 76.6

175 5.2 3.9 5.9

