

Data File : VL032671.D
Acq On : 19 Oct 2018 6:23
Operator : SY/AP
Sample : J5581-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-2

Quant Time: Oct 19 07:57:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 01:25:37 2018
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1342261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3317578	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3208029	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2338055 9.79 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 97.90%

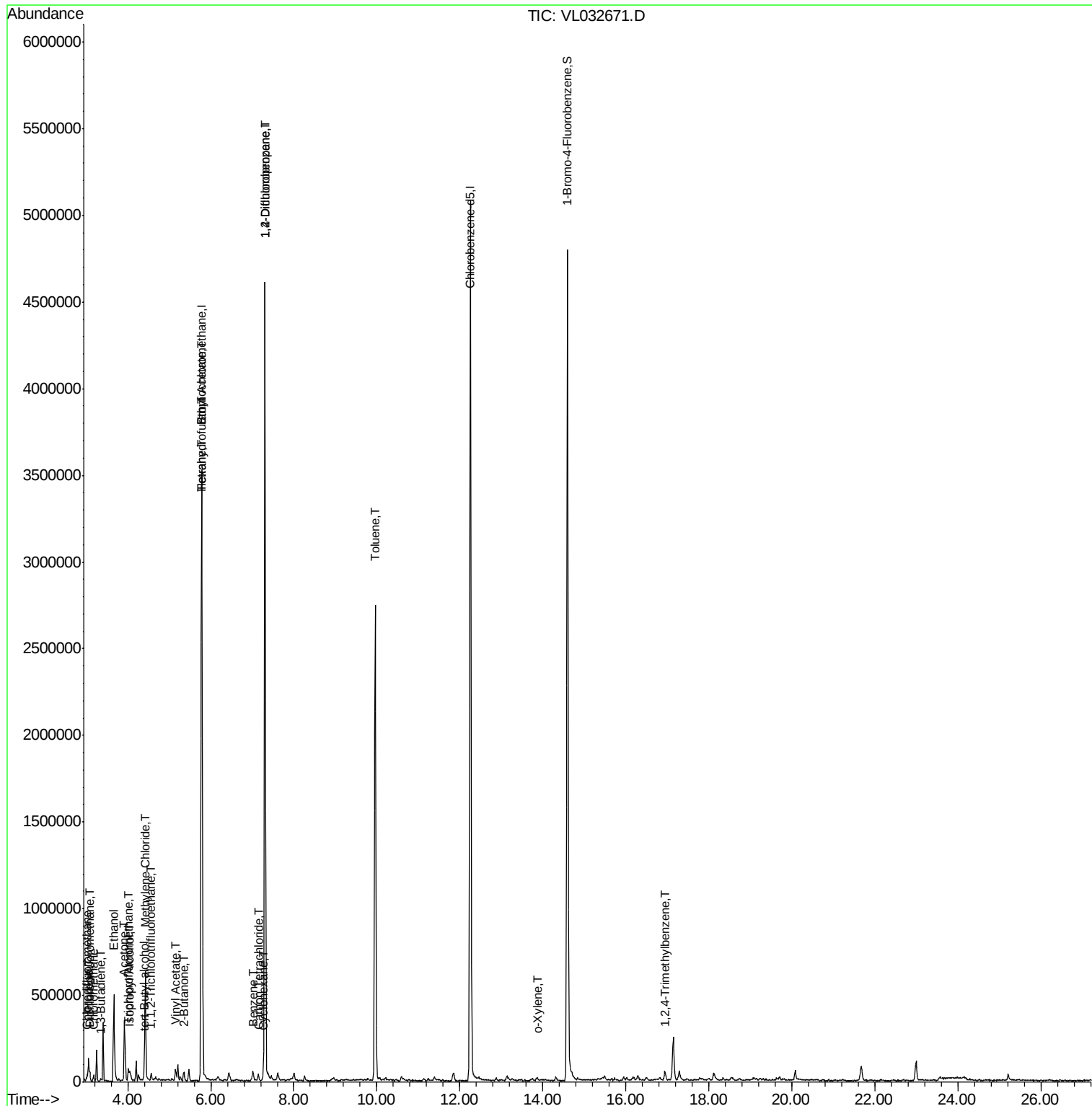
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.09	85	33886	0.248 ppbv	90
3) Chlorodifluoromethane	3.02	51	50259	0.479 ppbv #	90
4) Chloromethane	3.18	50	29407	0.501 ppbv	92
9) Propene	3.06	41	28843	0.668 ppbv #	77
11) Trichlorofluoromethane	4.02	101	41282	0.231 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	9709	0.065 ppbv #	57
13) Ethanol	3.66	45	552552	44.753 ppbv	98
15) Acetone	3.91	43	363790	2.935 ppbv	96
16) 1,3-Butadiene	3.36	39	1362	0.030 ppbv #	1
17) tert-Butyl alcohol	4.38	59	1331	0.037 ppbv #	100
19) Isopropyl Alcohol	4.05	45	65329	0.740 ppbv #	91
20) Methylene Chloride	4.42	84	218785	3.477 ppbv	98
23) Vinyl Acetate	5.16	43	24185	0.110 ppbv #	69
25) Ethyl Acetate	5.79	43	491972	1.724 ppbv #	79
26) Hexane	5.80	57	670120	4.964 ppbv #	45
30) Cyclohexane	7.25	84	3286	0.031 ppbv #	1
34) 2-Butanone	5.35	43	34645	0.195 ppbv #	69
35) Carbon Tetrachloride	7.15	117	10508	0.045 ppbv	85
36) Benzene	7.02	78	34867	0.129 ppbv #	90
39) 1,2-Dichloropropane	7.30	63	837720	8.052 ppbv #	25
41) Tetrahydrofuran	5.80	42	257873	2.602 ppbv #	48
53) Toluene	9.96	91	2076068	6.723 ppbv	98
60) o-Xylene	13.86	91	6572	0.021 ppbv #	53
74) 1,2,4-Trimethylbenzene	16.94	105	30274	0.085 ppbv #	75

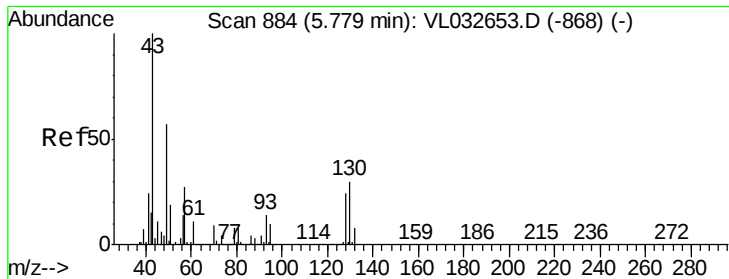
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

A-2

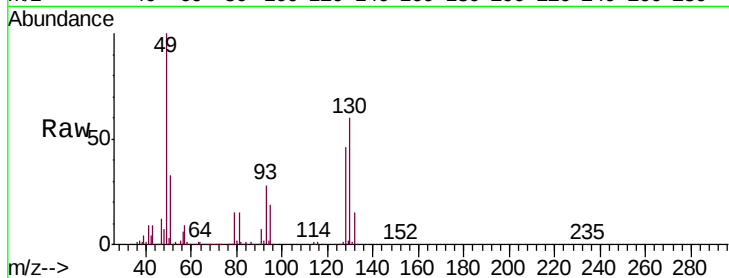
Tgt Ion: 49 Resp: 1342261

Ion Ratio Lower Upper

49 100

128 48.7 22.3 66.8

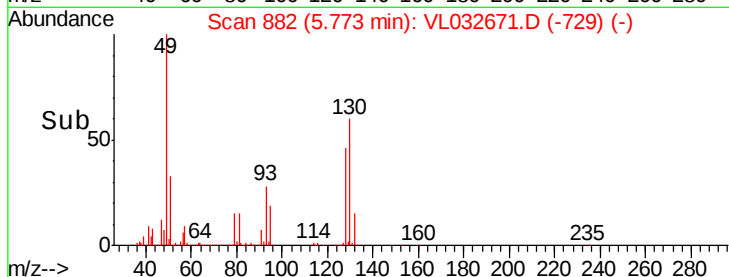
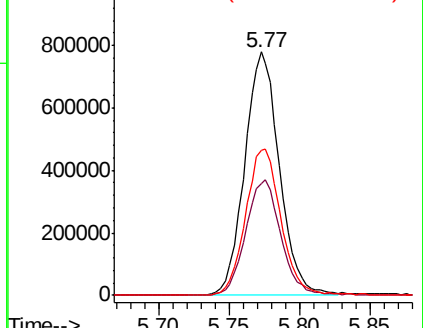
130 61.6 28.4 85.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.248 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032671.D

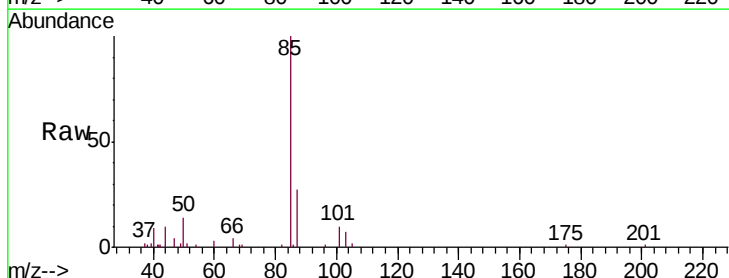
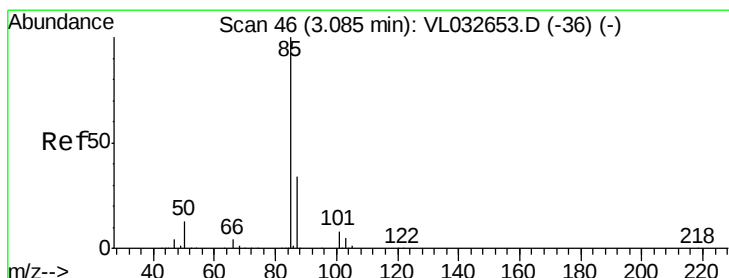
Acq: 19 Oct 2018 6:23

Tgt Ion: 85 Resp: 33886

Ion Ratio Lower Upper

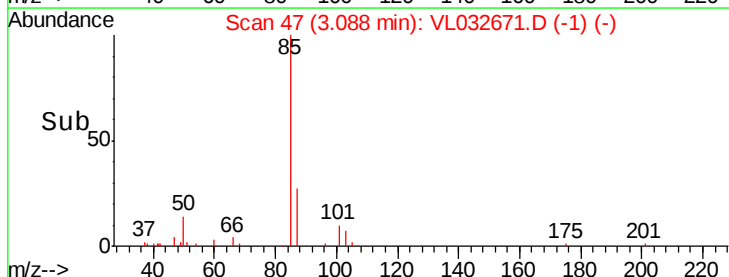
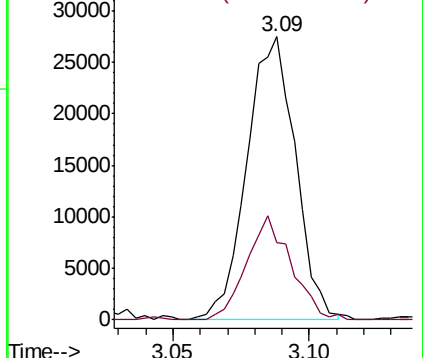
85 100

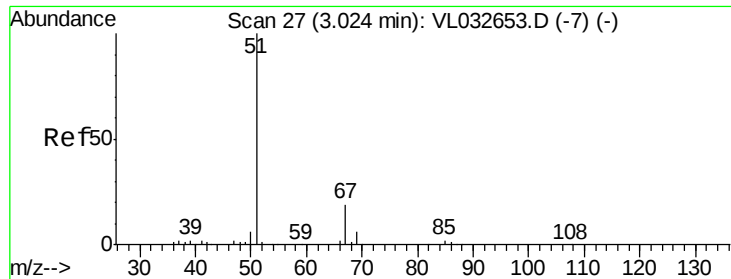
87 27.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.479 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

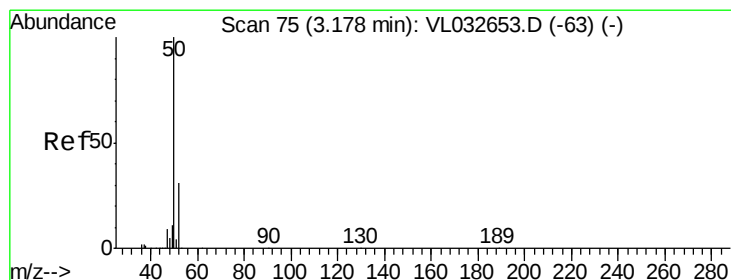
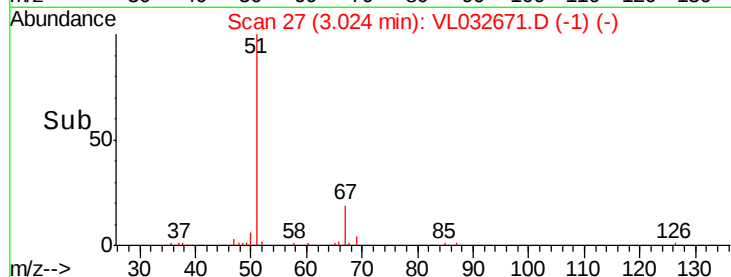
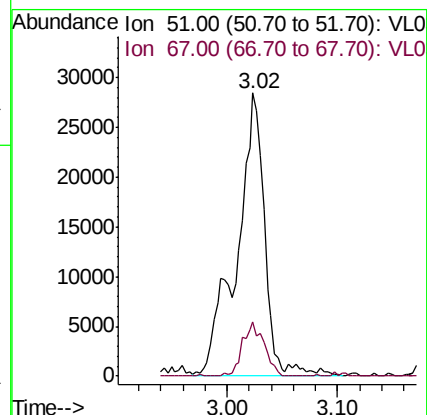
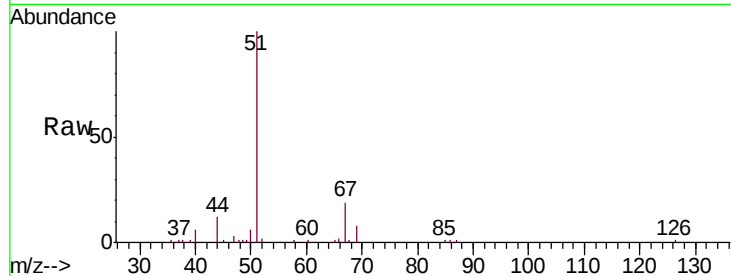
A-2

Tgt Ion: 51 Resp: 50259

Ion Ratio Lower Upper

51 100

67 14.5 15.2 22.8#



#4

Chloromethane

Concen: 0.501 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032671.D

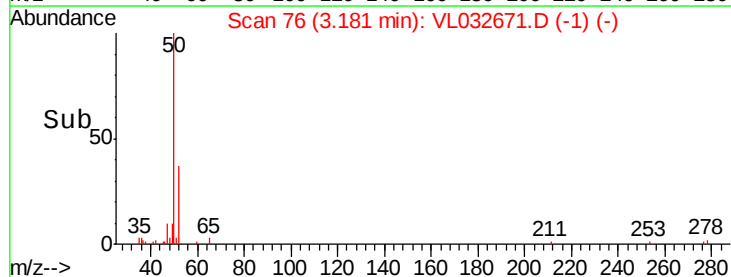
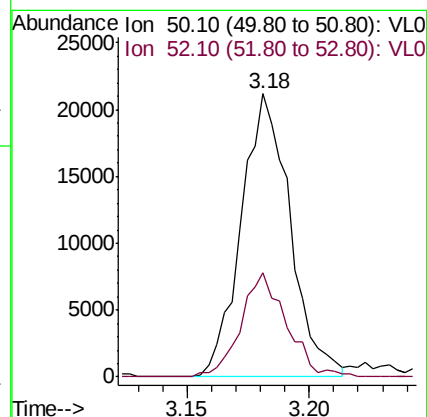
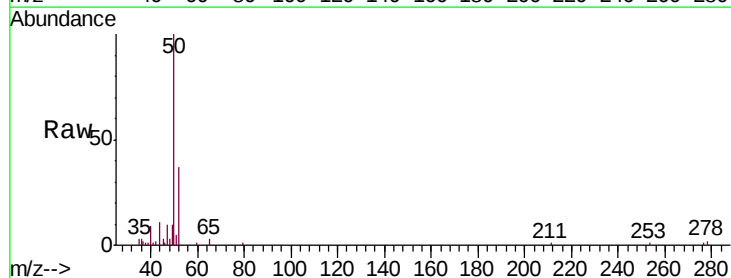
Acq: 19 Oct 2018 6:23

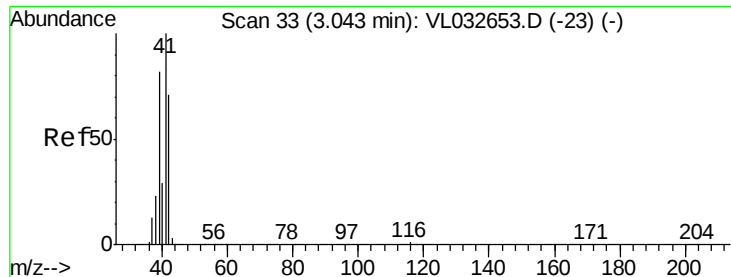
Tgt Ion: 50 Resp: 29407

Ion Ratio Lower Upper

50 100

52 36.7 25.9 38.9





#9

Propene

Concen: 0.668 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

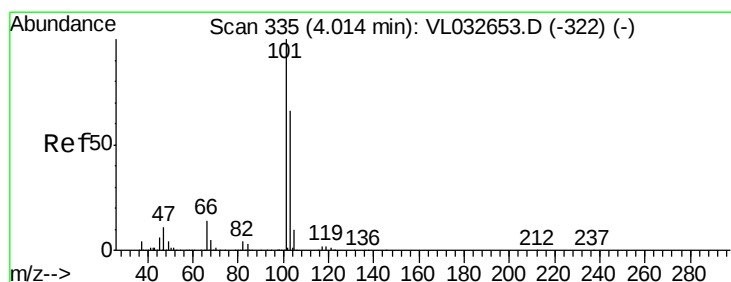
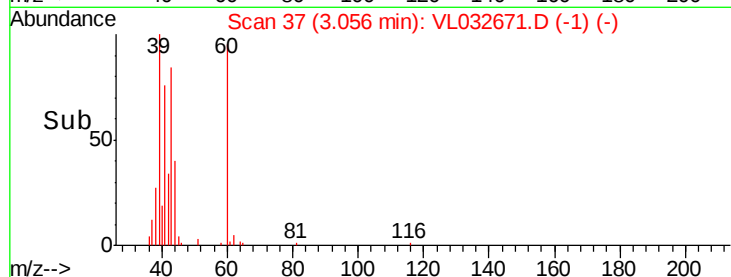
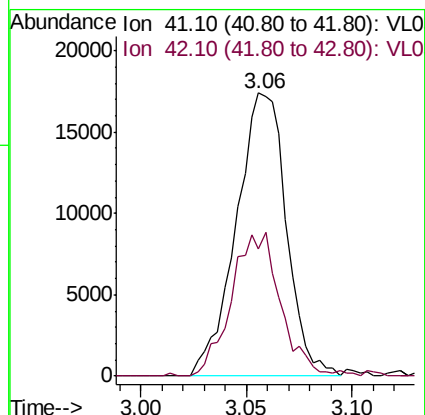
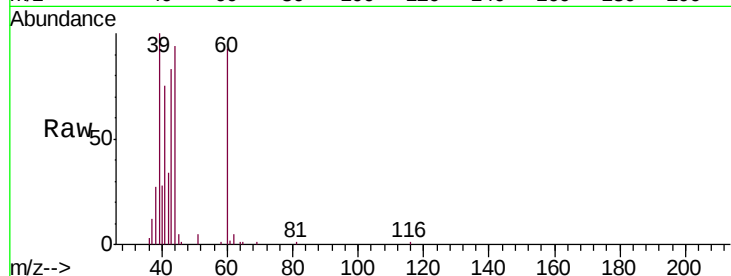
A-2

Tgt Ion: 41 Resp: 28843

Ion Ratio Lower Upper

41 100

42 50.4 55.4 83.0#



#11

Trichlorofluoromethane

Concen: 0.231 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL032671.D

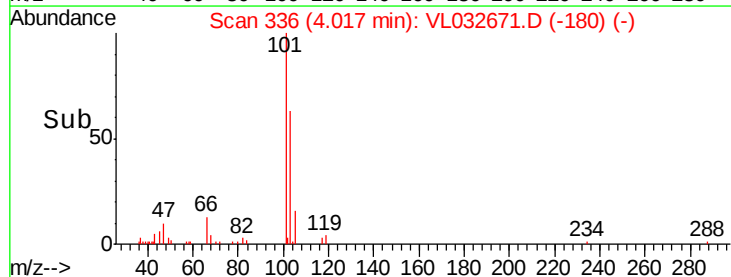
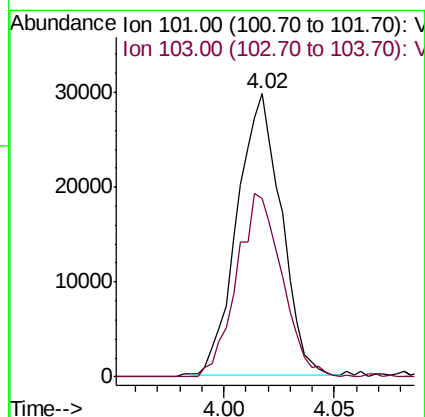
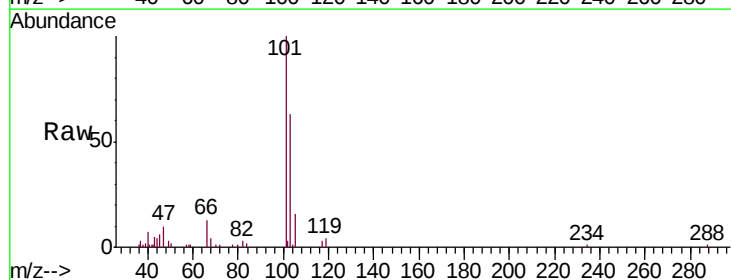
Acq: 19 Oct 2018 6:23

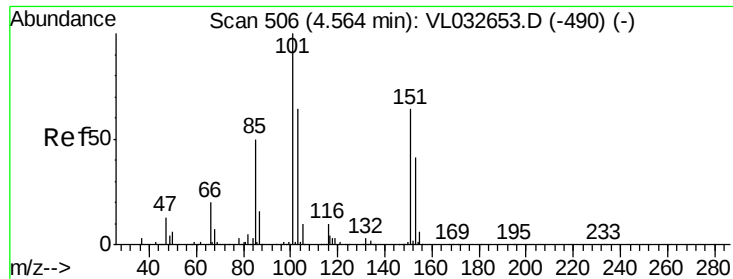
Tgt Ion: 101 Resp: 41282

Ion Ratio Lower Upper

101 100

103 63.4 51.4 77.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.065 ppbv

RT: 4.56 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

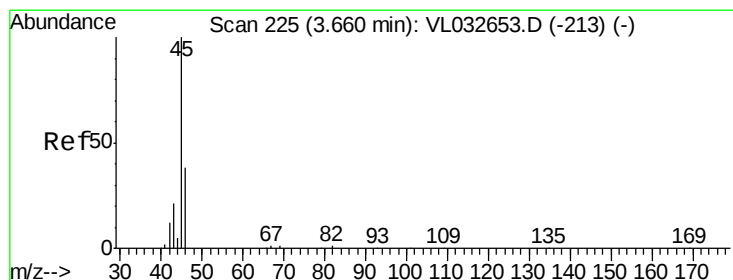
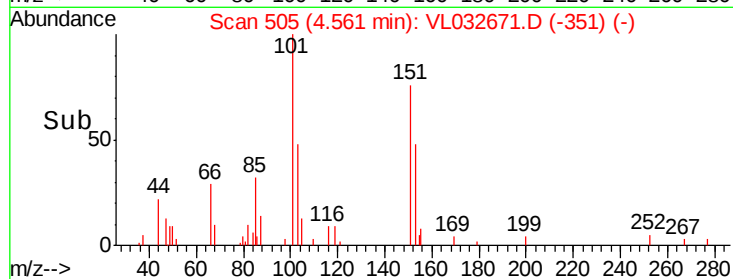
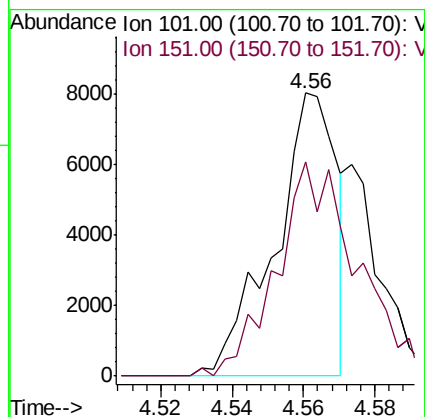
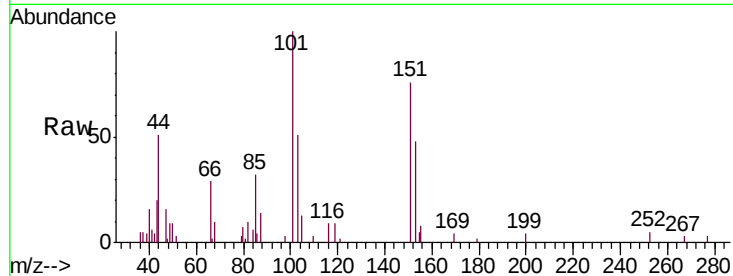
A-2

Tgt Ion:101 Resp: 9709

Ion Ratio Lower Upper

101 100

151 99.1 52.3 78.5#



#13

Ethanol

Concen: 44.753 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL032671.D

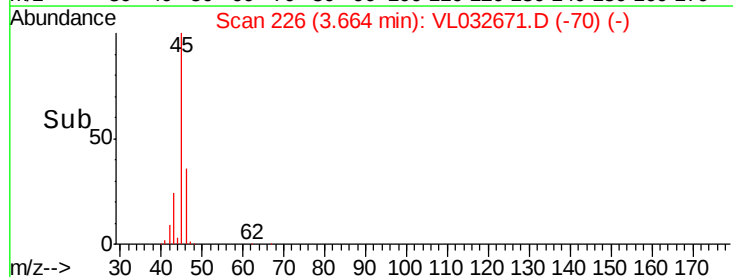
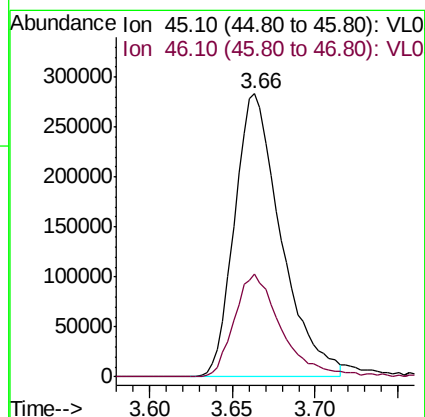
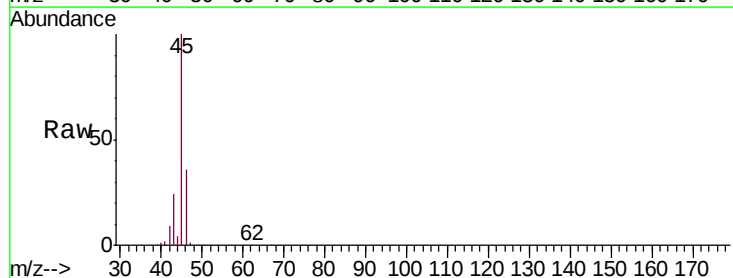
Acq: 19 Oct 2018 6:23

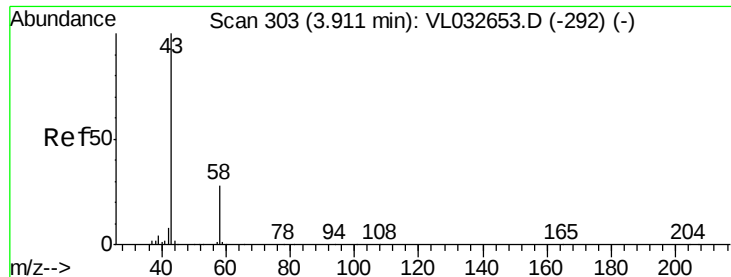
Tgt Ion: 45 Resp: 552552

Ion Ratio Lower Upper

45 100

46 37.4 15.4 61.8





#15

Acetone

Concen: 2.935 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

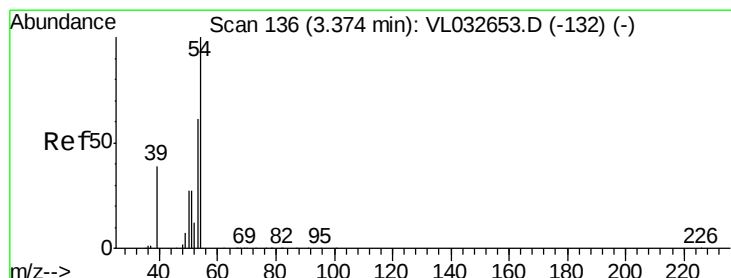
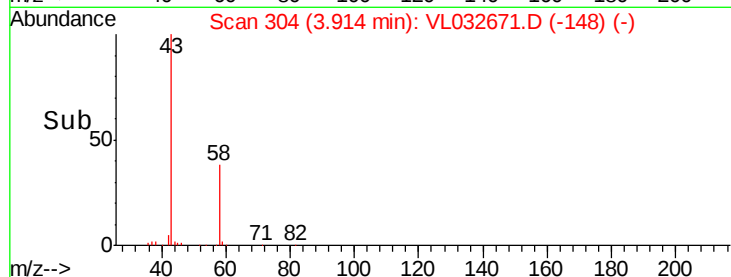
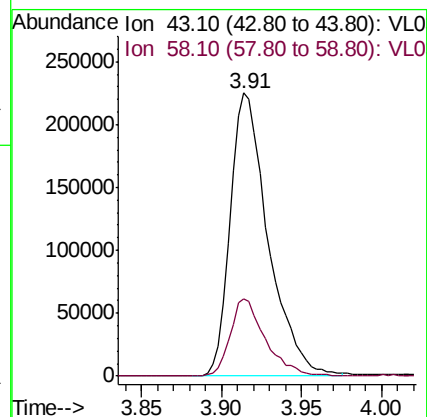
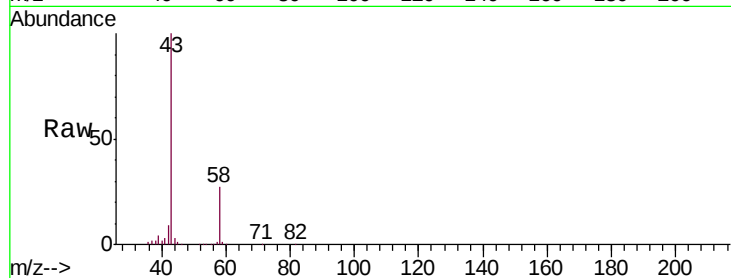
A-2

Tgt Ion: 43 Resp: 363790

Ion Ratio Lower Upper

43 100

58 25.5 22.1 33.1



#16

1,3-Butadiene

Concen: 0.030 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.01 min

Lab File: VL032671.D

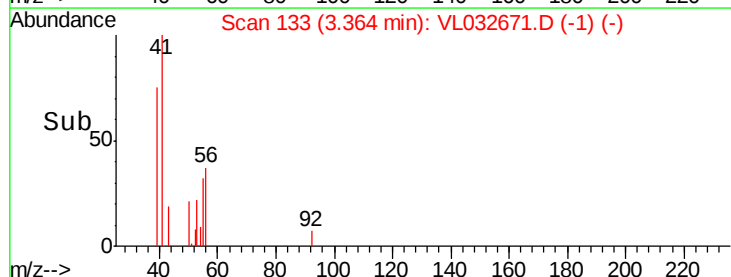
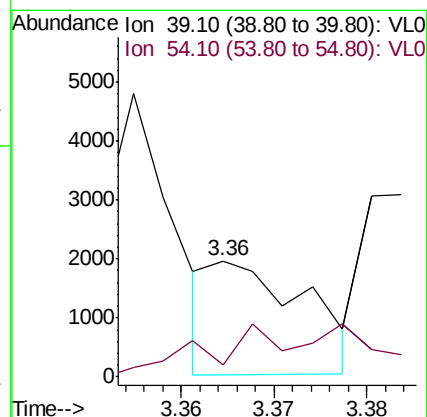
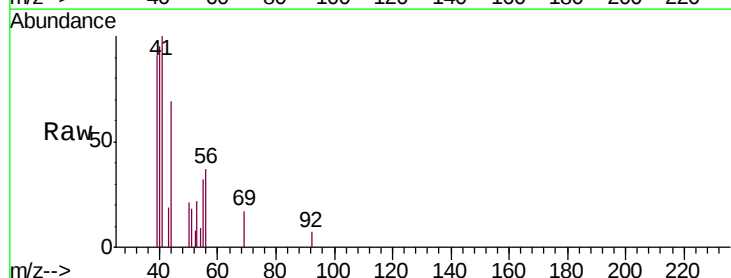
Acq: 19 Oct 2018 6:23

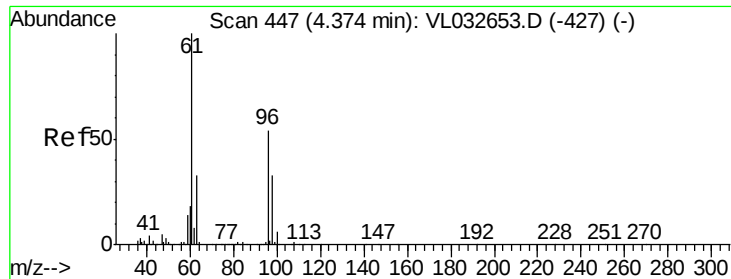
Tgt Ion: 39 Resp: 1362

Ion Ratio Lower Upper

39 100

54 0.0 90.4 135.6#

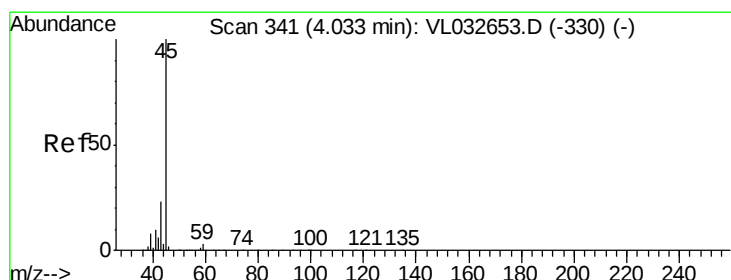
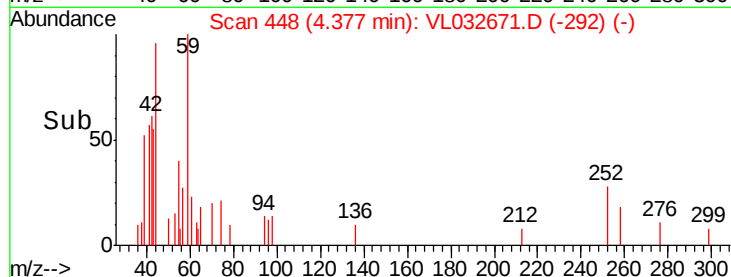
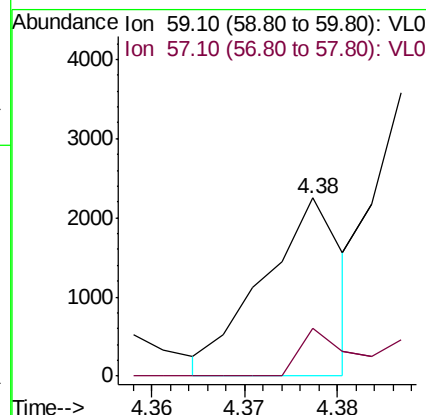
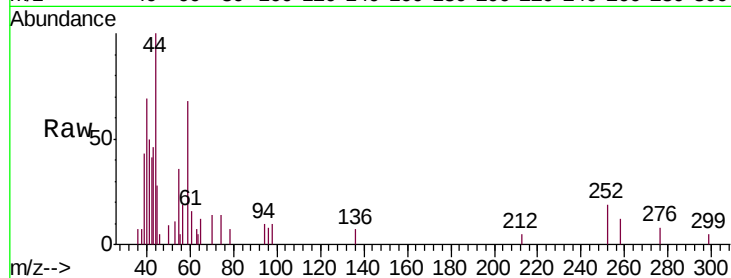




#17
 tert-Butyl alcohol
 Concen: 0.037 ppbv
 RT: 4.38 min Scan# 448
 Delta R.T. 0.00 min
 Lab File: VL032671.D
 Acq: 19 Oct 2018 6:23

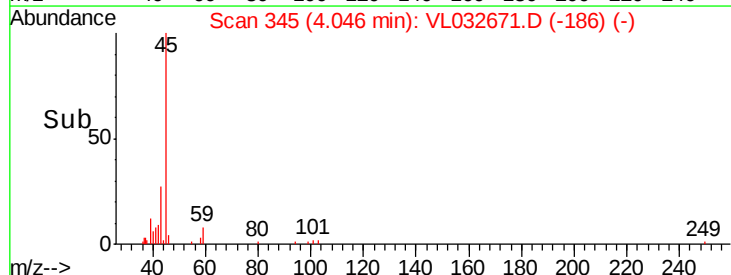
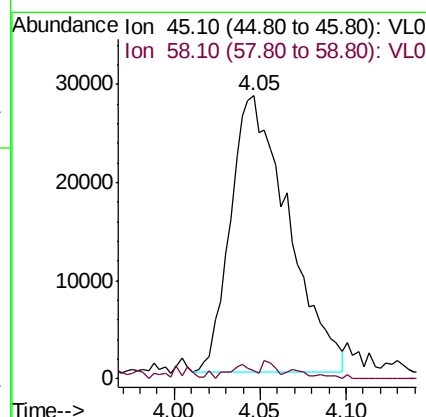
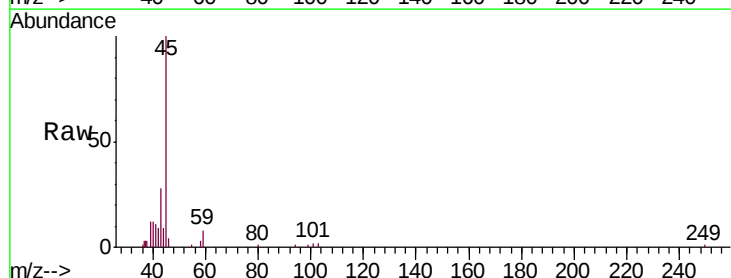
Instrument :
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 ClientSampleId :
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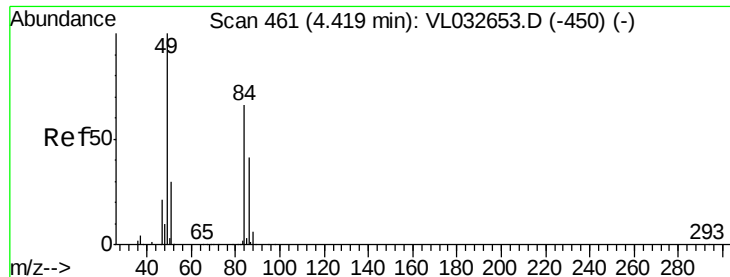
Tgt Ion: 59 Resp: 1331
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0



#19
 Isopropyl Alcohol
 Concen: 0.740 ppbv
 RT: 4.05 min Scan# 345
 Delta R.T. 0.01 min
 Lab File: VL032671.D
 Acq: 19 Oct 2018 6:23

Tgt Ion: 45 Resp: 65329
 Ion Ratio Lower Upper
 45 100
 58 5.7 2.0 3.0#

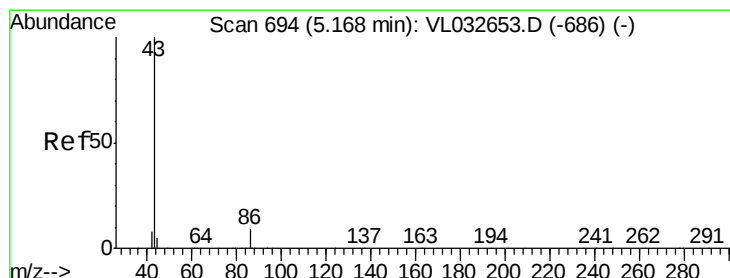
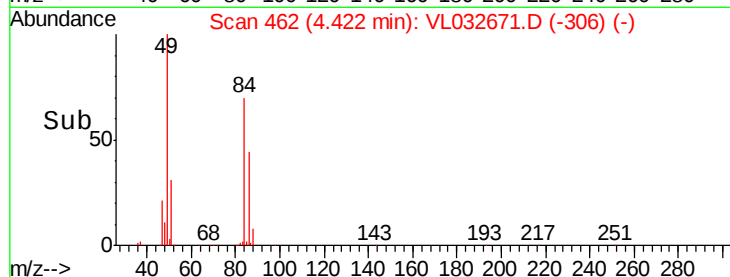
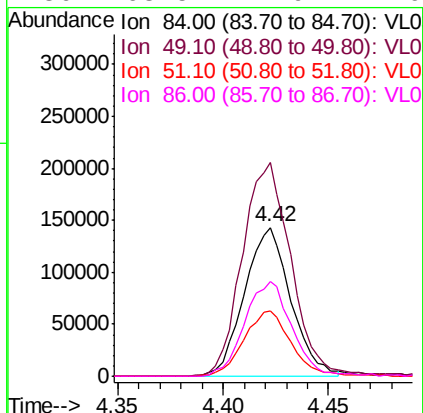
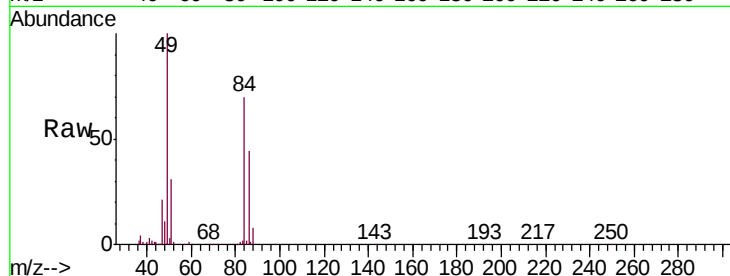




#20
Methylene Chloride
Concen: 3.477 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

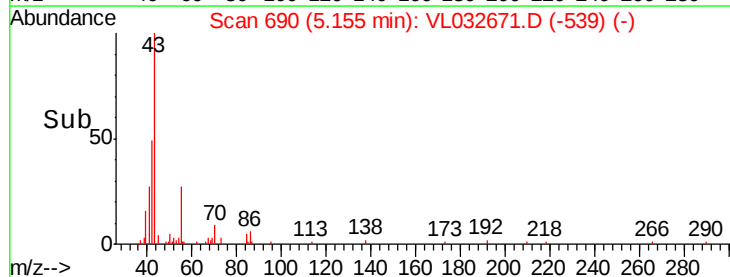
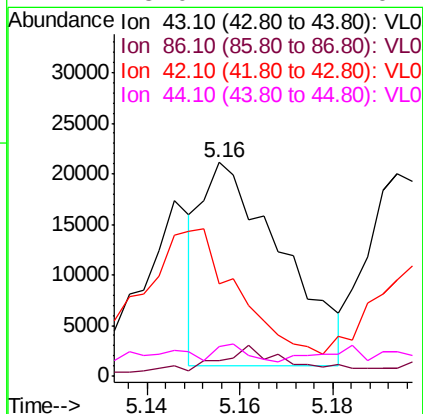
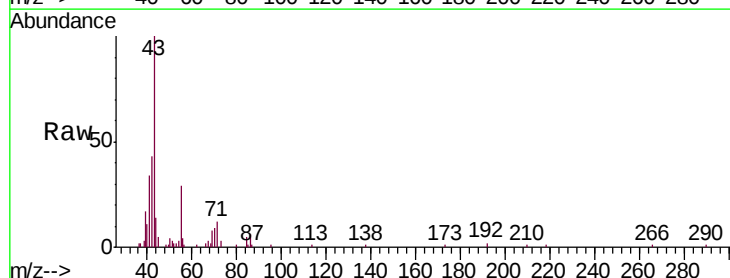
Instrument :
MSVOA_L
ClientSampleId :
A-2

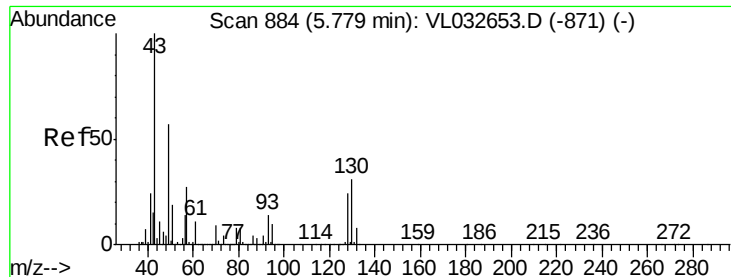
Tgt Ion:	84	Resp:	218785
Ion	Ratio	Lower	Upper
84	100		
49	143.9	113.5	170.3
51	44.0	34.8	52.2
86	63.5	47.9	71.9



#23
Vinyl Acetate
Concen: 0.110 ppbv
RT: 5.16 min Scan# 690
Delta R.T. -0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion:	43	Resp:	24185
Ion	Ratio	Lower	Upper
43	100		
86	6.4	6.1	9.1
42	34.8	7.4	11.2#
44	5.0	4.2	6.2

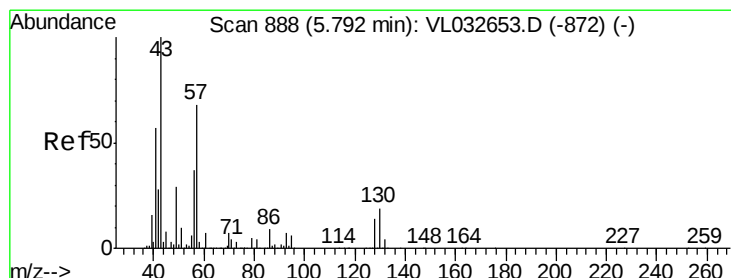
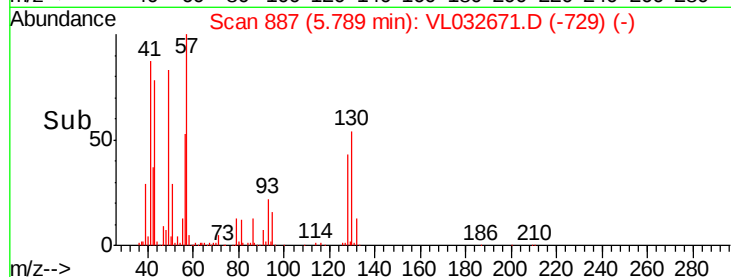
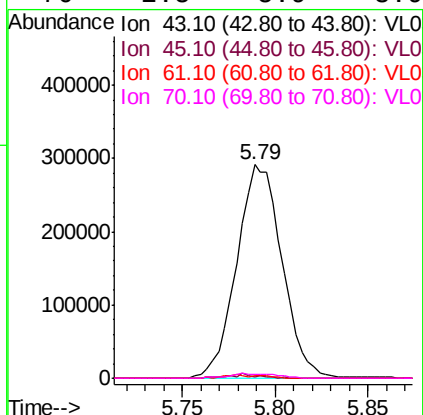
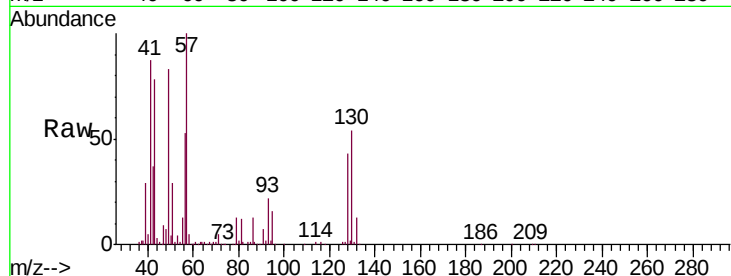




#25
Ethyl Acetate
Concen: 1.724 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

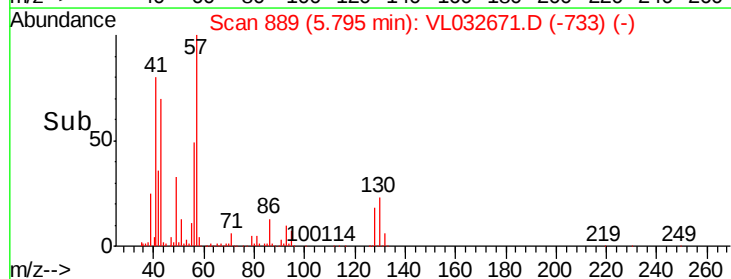
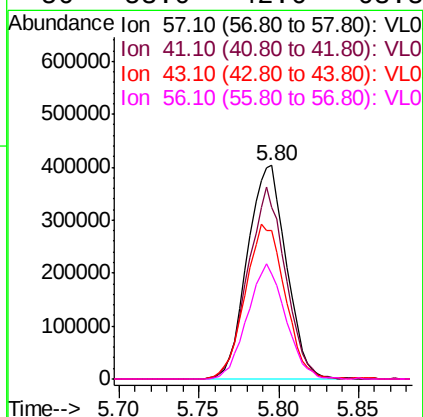
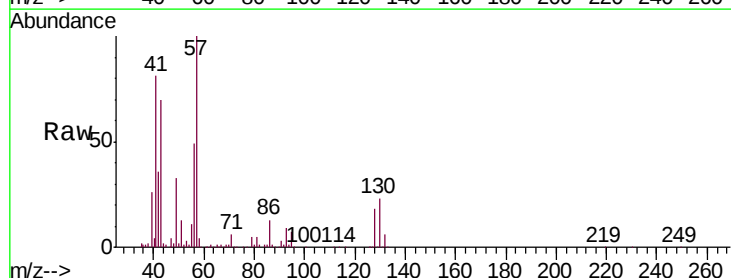
Instrument :
MSVOA_L
ClientSampleId :
A-2

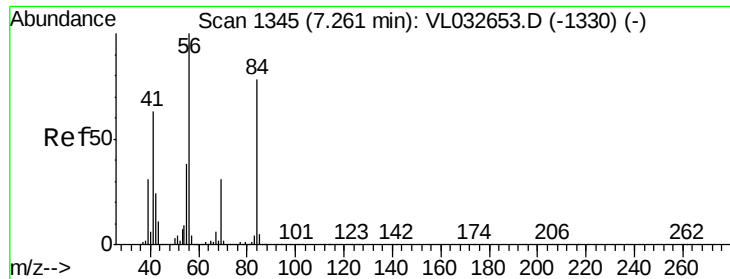
Tgt Ion:	43	Resp:	491972
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.0	12.0#
61	1.4	8.0	12.0#
70	2.5	5.9	8.9#



#26
Hexane
Concen: 4.964 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion:	57	Resp:	670120
Ion	Ratio	Lower	Upper
57	100		
41	87.3	67.4	101.0
43	74.2	171.9	257.9#
56	53.0	42.6	63.8

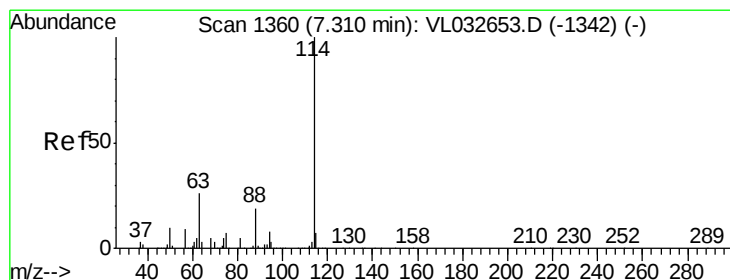
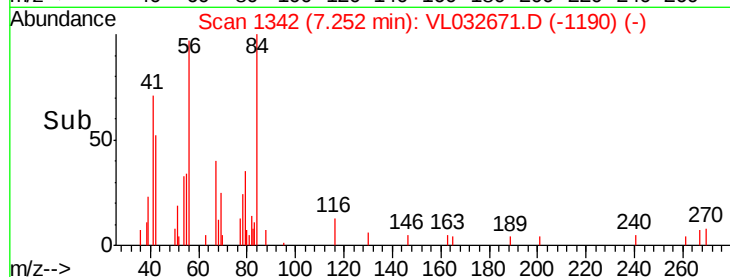
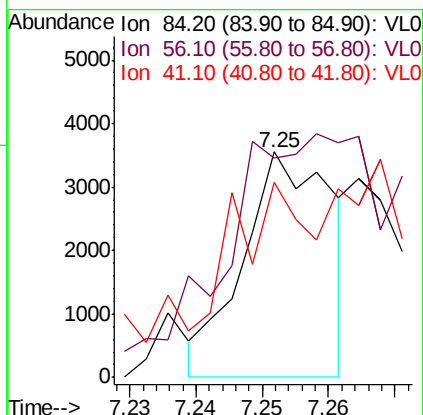
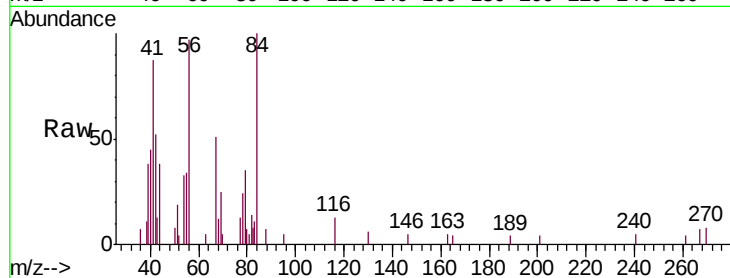




#30
Cyclohexane
Concen: 0.031 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

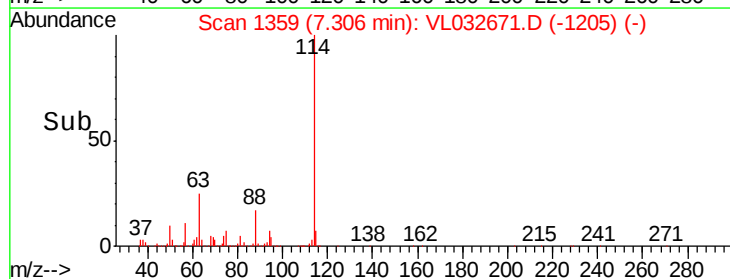
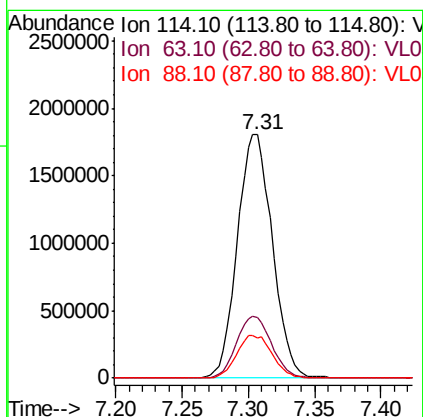
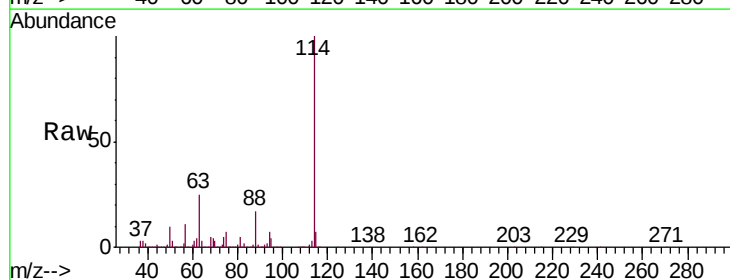
Instrument :
MSVOA_L
ClientSampleId :
A-2

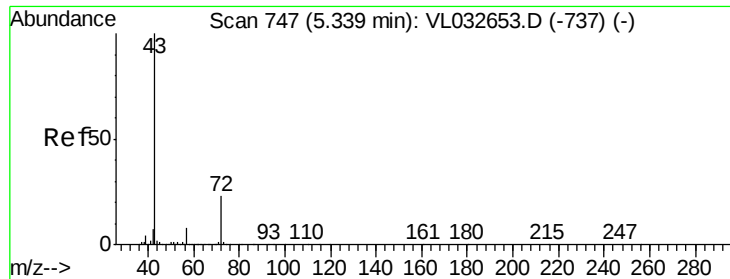
Tgt Ion: 84 Resp: 3286
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 0.0 64.8 97.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion: 114 Resp: 3317578
Ion Ratio Lower Upper
114 100
63 25.4 21.7 32.5
88 17.8 14.9 22.3

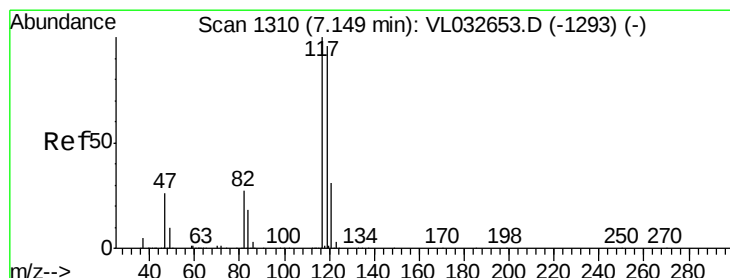
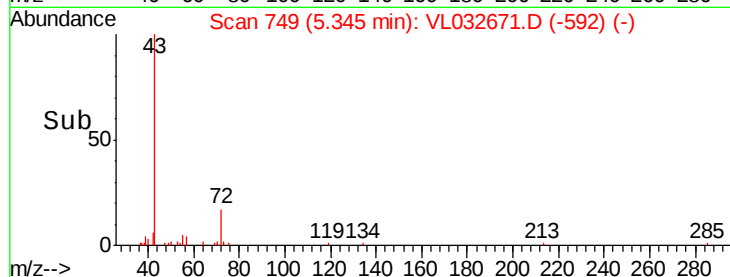
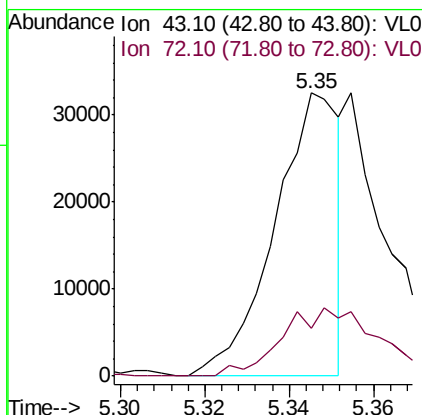
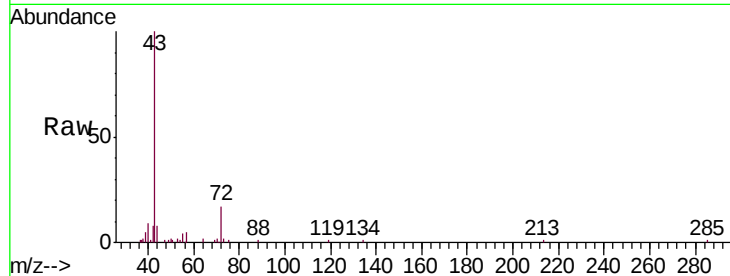




#34
2-Butanone
Concen: 0.195 ppbv
RT: 5.35 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

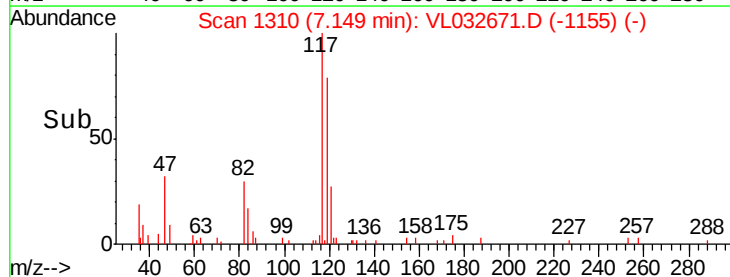
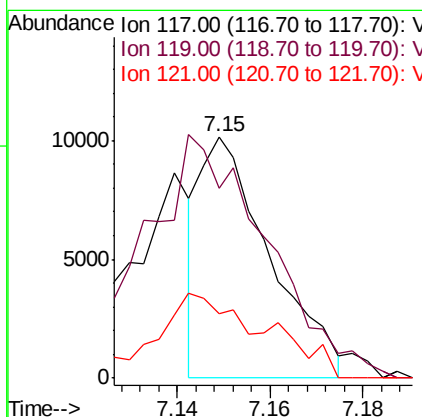
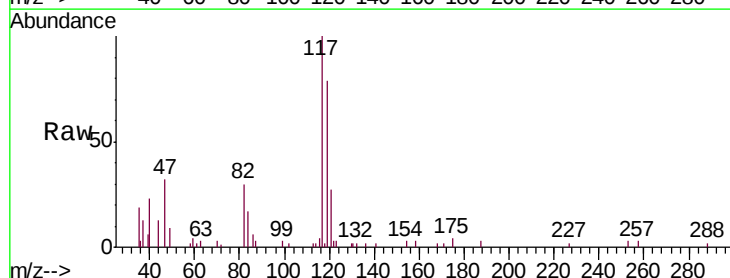
Instrument :
MSVOA_L
ClientSampleId :
A-2

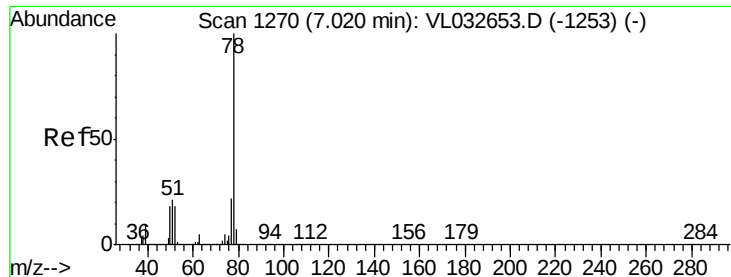
Tgt Ion: 43 Resp: 34645
Ion Ratio Lower Upper
43 100
72 38.1 18.6 27.8#



#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 7.15 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion: 117 Resp: 10508
Ion Ratio Lower Upper
117 100
119 75.9 75.7 113.5
121 32.2 24.7 37.1





#36

Benzene

Concen: 0.129 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampled :

A-2

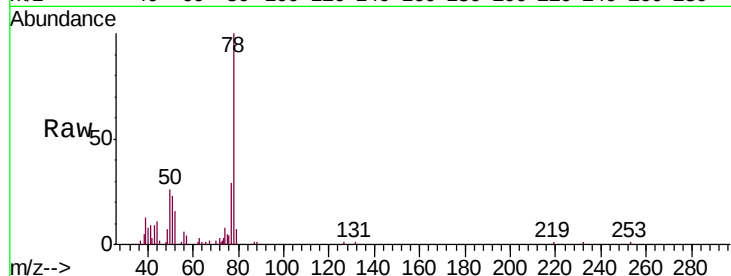
Tgt Ion: 78 Resp: 34867

Ion Ratio Lower Upper

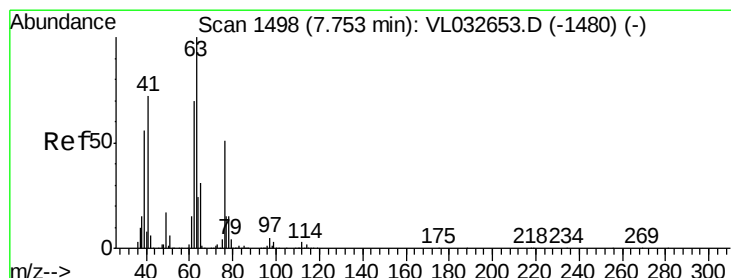
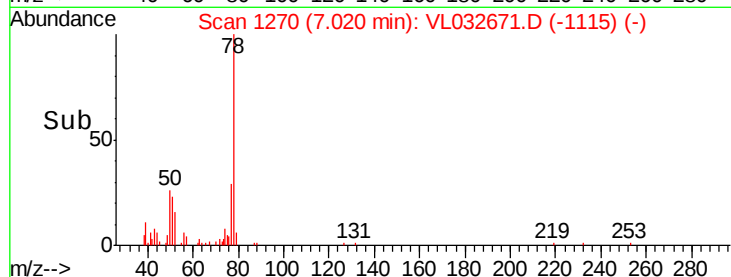
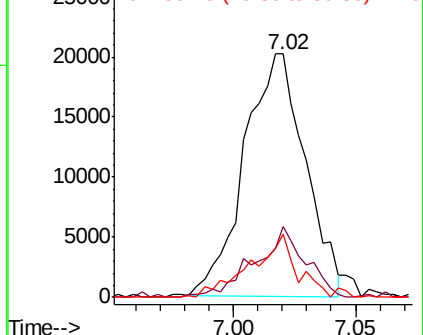
78 100

77 28.1 18.1 27.1#

50 22.6 15.1 22.7



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.052 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.45 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

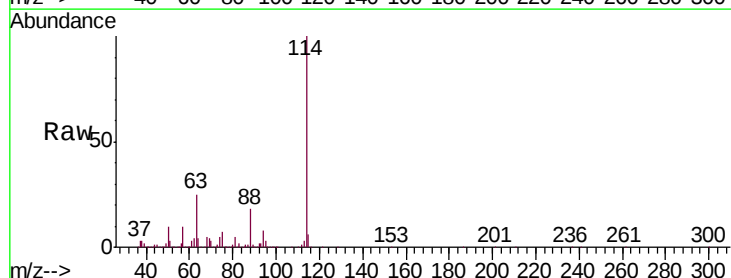
Tgt Ion: 63 Resp: 837720

Ion Ratio Lower Upper

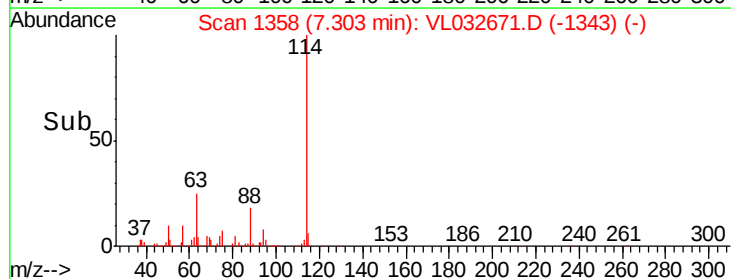
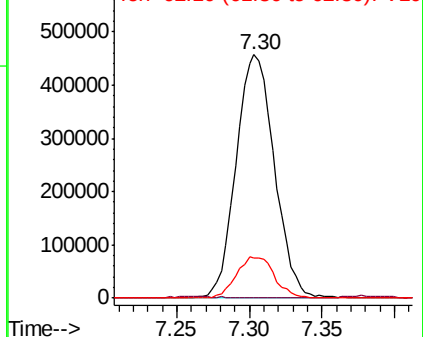
63 100

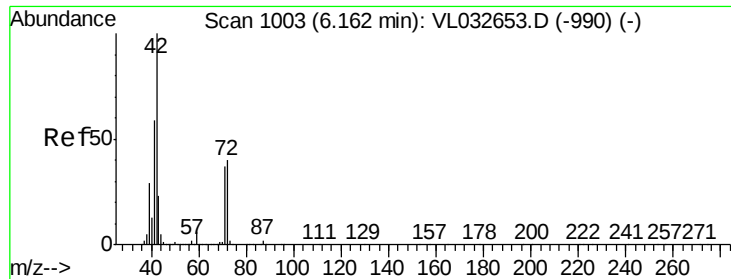
41 0.0 56.2 84.4#

62 16.7 54.4 81.6#



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

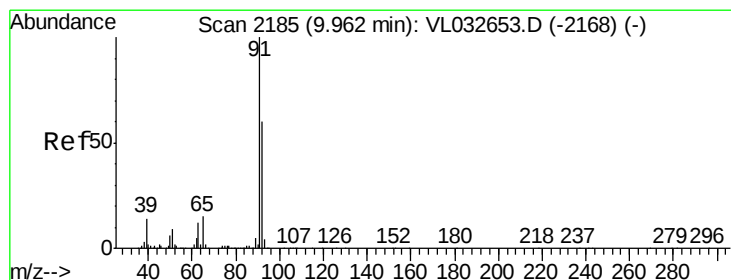
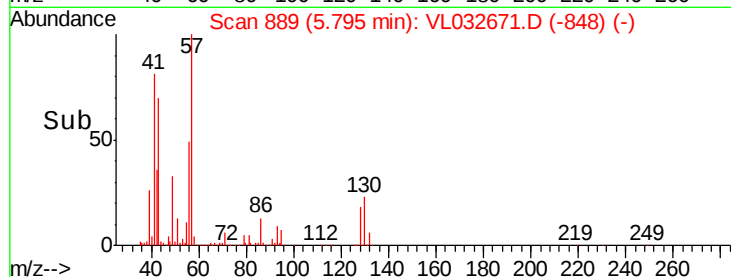
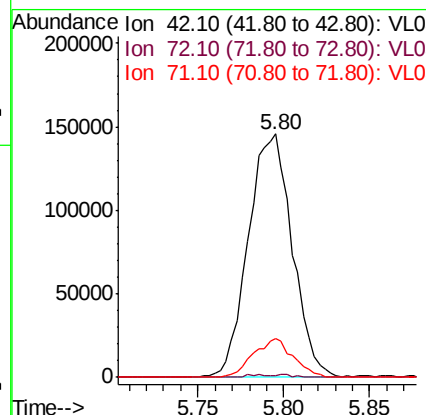
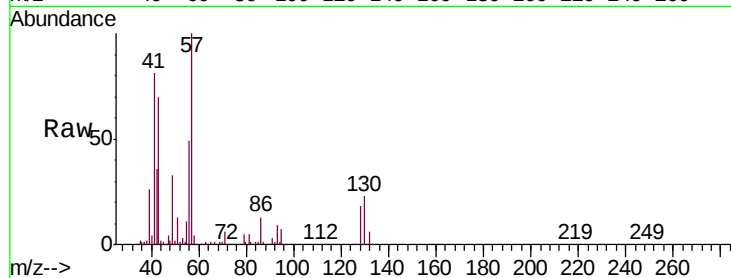




#41
Tetrahydrofuran
Concen: 2.602 ppbv
RT: 5.80 min Scan# 889
Delta R.T. -0.37 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

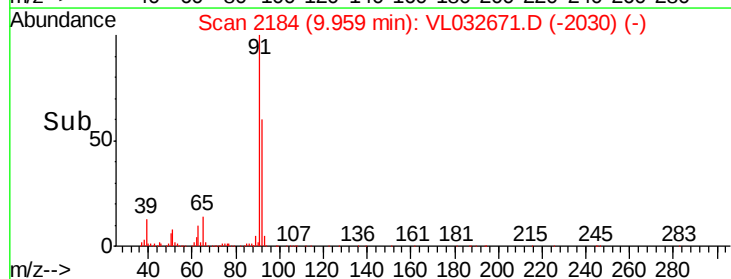
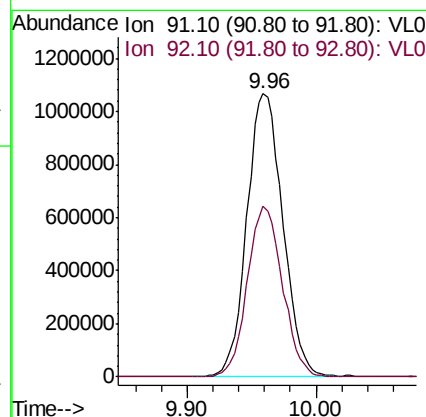
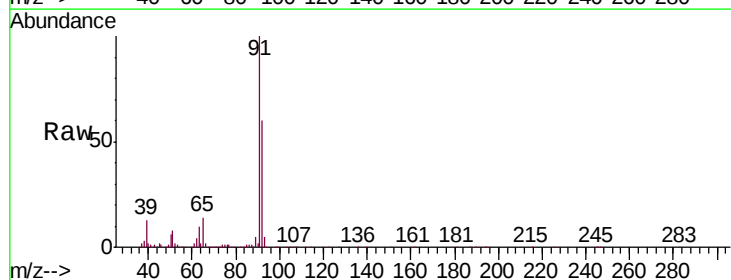
Instrument :
MSVOA_L
ClientSampleId :
A-2

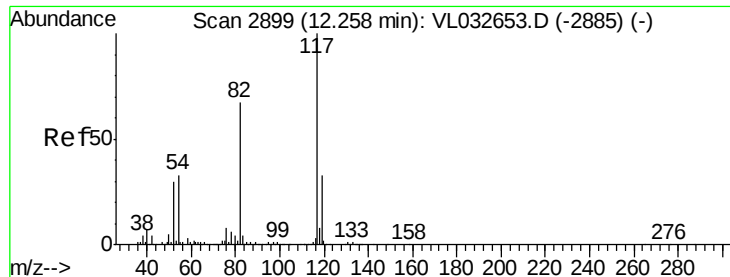
Tgt Ion: 42 Resp: 257873
Ion Ratio Lower Upper
42 100
72 1.1 32.4 48.6#
71 14.7 31.3 46.9#



#53
Toluene
Concen: 6.723 ppbv
RT: 9.96 min Scan# 2184
Delta R.T. -0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion: 91 Resp: 2076068
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6

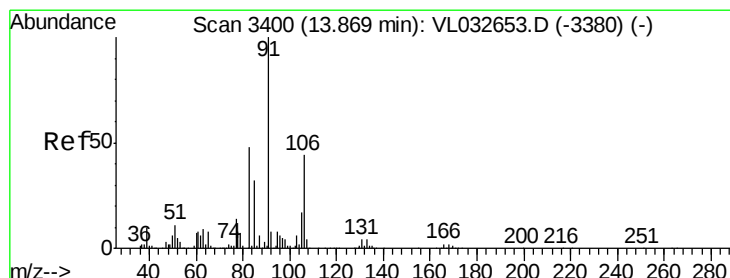
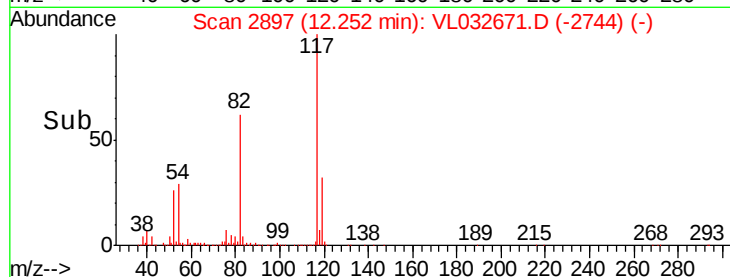
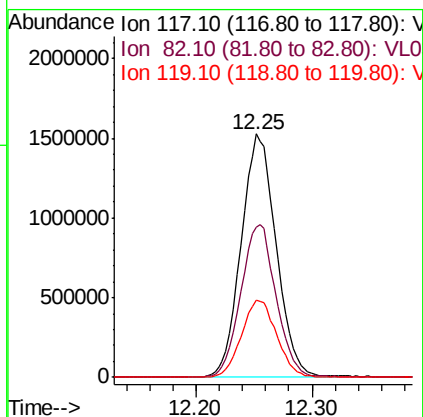
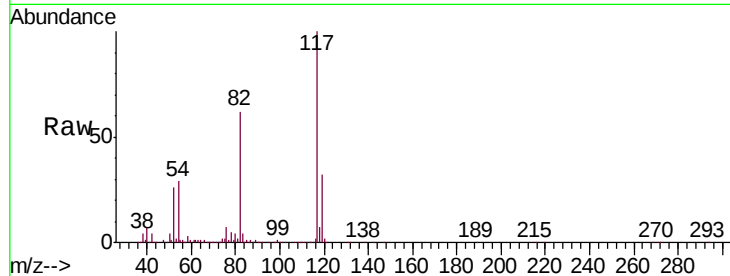




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

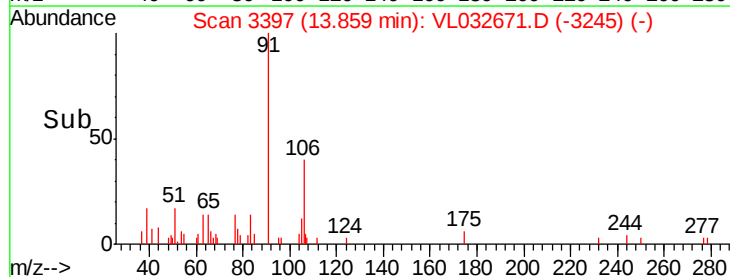
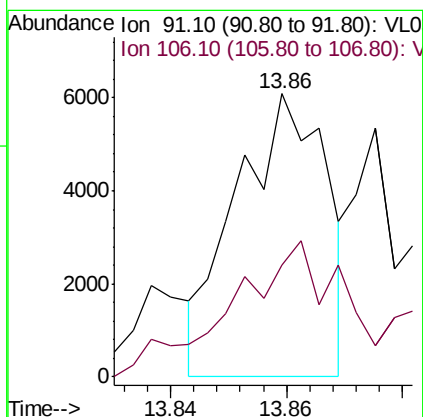
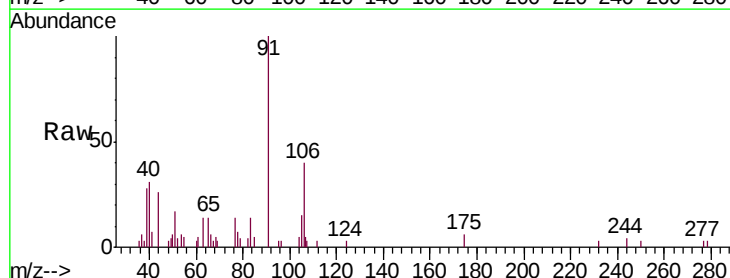
Instrument :
MSVOA_L
ClientSampleId :
A-2

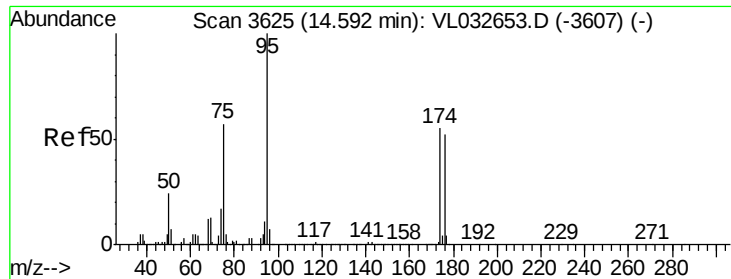
Tgt Ion: 117 Resp: 3208029
Ion Ratio Lower Upper
117 100
82 63.9 52.7 79.1
119 32.1 26.7 40.1



#60
o-Xylene
Concen: 0.021 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion: 91 Resp: 6572
Ion Ratio Lower Upper
91 100
106 74.5 22.1 66.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.788 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

A-2

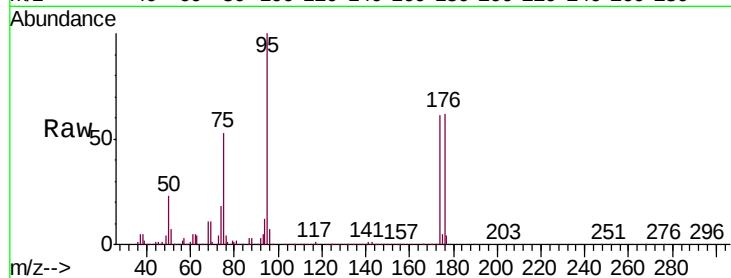
Tgt Ion: 95 Resp: 2338055

Ion Ratio Lower Upper

95 100

174 63.8 46.0 69.0

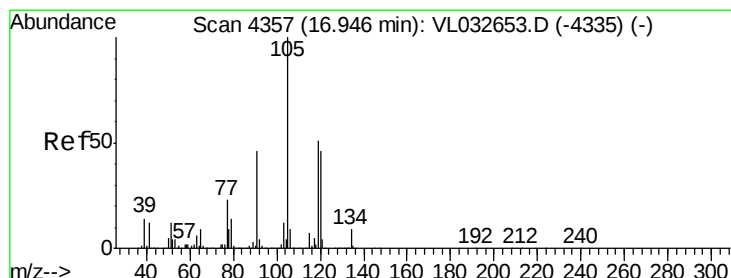
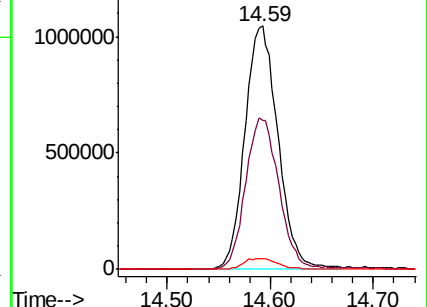
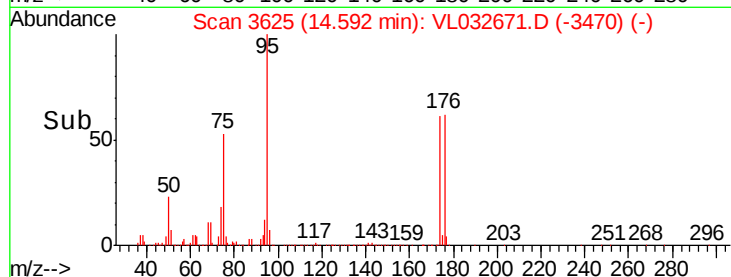
175 4.8 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL032671.D (-3470) (-)

Ion 174.00 (173.70 to 174.70): VL032671.D (-3470) (-)

Ion 175.00 (174.70 to 175.70): VL032671.D (-3470) (-)



#74

1,2,4-Trimethylbenzene

Concen: 0.085 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Tgt Ion: 105 Resp: 30274

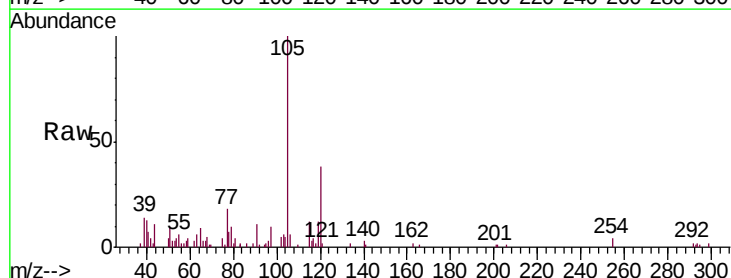
Ion Ratio Lower Upper

105 100

120 37.6 35.8 53.8

91 9.6 33.2 49.8#

77 18.4 16.2 24.4



Abundance Ion 105.10 (104.80 to 105.80): VL032671.D (-4202) (-)

Ion 120.20 (119.90 to 120.90): VL032671.D (-4202) (-)

Ion 91.10 (90.80 to 91.80): VL032671.D (-4202) (-)

Ion 77.10 (76.80 to 77.80): VL032671.D (-4202) (-)

