

Data File : VL032878.D
Acq On : 4 Dec 2018 16:04
Operator : SY/AP
Sample : J6175-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

Quant Time: Dec 05 05:47:21 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1535704	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3852668	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3948321	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2865128	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds

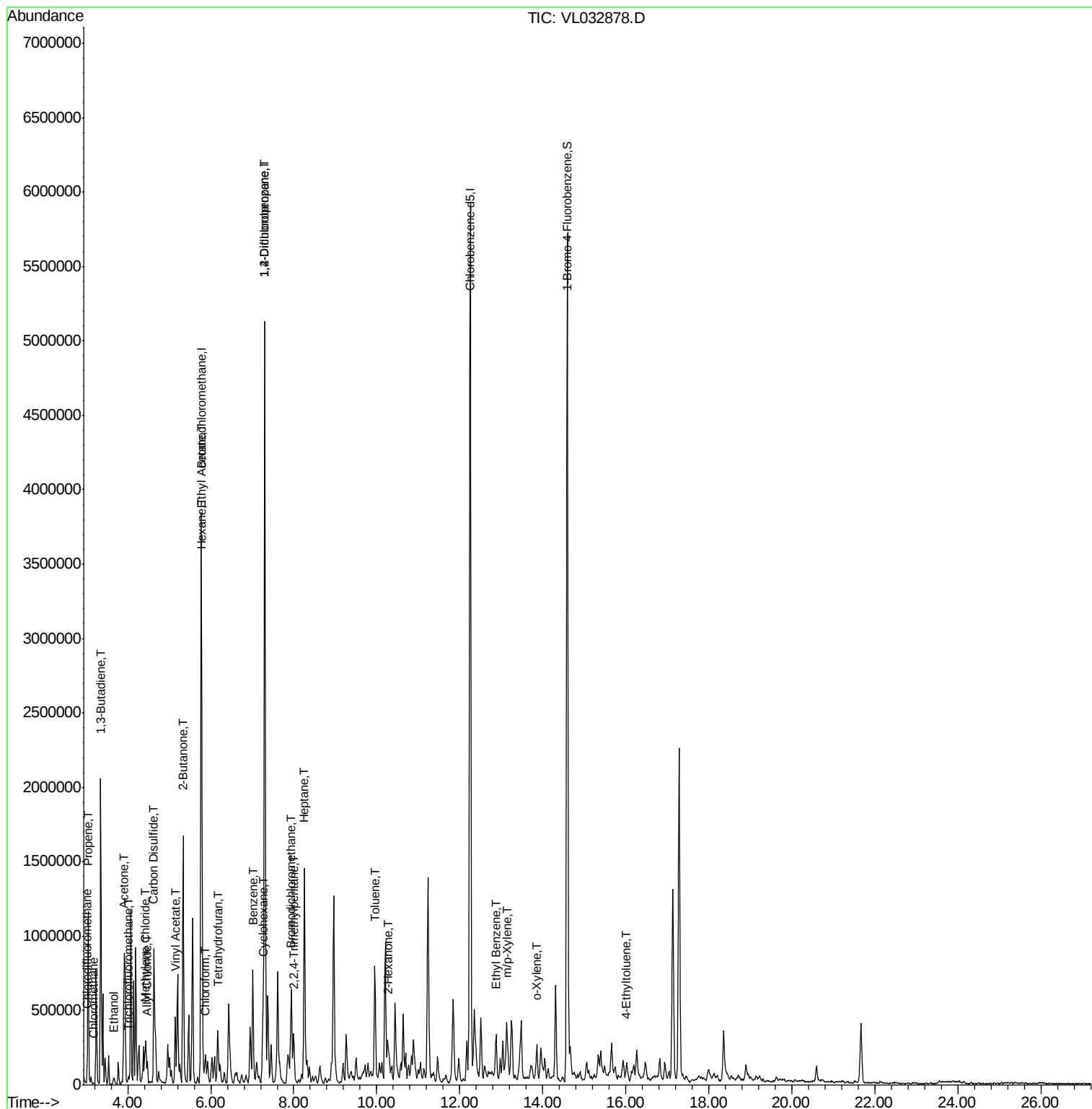
						Qvalue
3) Chlorodifluoromethane	3.02	51	6954	0.057	ppbv	100
4) Chloromethane	3.18	50	3100	0.046	ppbv	91
9) Propene	3.04	41	469018	9.626	ppbv	94
10) Heptane	8.25	43	624584	3.358	ppbv	98
11) Trichlorofluoromethane	4.01	101	6397	0.031	ppbv	99
13) Ethanol	3.66	45	49547	3.105	ppbv	93
15) Acetone	3.91	43	982332	7.004	ppbv	96
16) 1,3-Butadiene	3.35	39	558570	10.285	ppbv #	18
20) Methylene Chloride	4.41	84	73224	1.009	ppbv #	93
21) Allyl Chloride	4.48	41	11270	0.096	ppbv #	1
23) Vinyl Acetate	5.15	43	136125	0.532	ppbv #	1
25) Ethyl Acetate	5.79	43	333069	1.019	ppbv #	78
26) Hexane	5.79	57	486974	3.347	ppbv #	42
27) Carbon Disulfide	4.63	76	963310	5.221	ppbv	98
29) Chloroform	5.85	83	9709	0.037	ppbv	97
30) Cyclohexane	7.26	84	161642	1.270	ppbv #	82
34) 2-Butanone	5.33	43	1856247	9.289	ppbv	99
36) Benzene	7.01	78	596468	1.944	ppbv	97
39) 1,2-Dichloropropane	7.30	63	900366	7.703	ppbv #	24
41) Tetrahydrofuran	6.17	42	218799	1.909	ppbv	99
42) Bromodichloromethane	7.92	83	15566	0.056	ppbv #	31
44) 2,2,4-Trimethylpentane	8.00	57	117234	0.229	ppbv #	5
51) 2-Hexanone	10.26	43	44343	0.221	ppbv #	29
53) Toluene	9.96	91	588777	1.840	ppbv	98
58) Ethyl Benzene	12.87	91	188873	0.397	ppbv	96
59) m/p-Xylene	13.13	91	152960	0.362	ppbv #	15
60) o-Xylene	13.86	91	145197	0.341	ppbv	97
72) 4-Ethyltoluene	16.01	105	19225	0.041	ppbv #	69

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

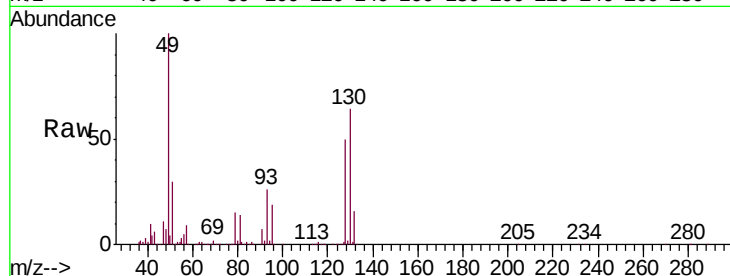
Tgt Ion: 49 Resp: 1535704

Ion Ratio Lower Upper

49 100

128 52.0 24.9 74.6

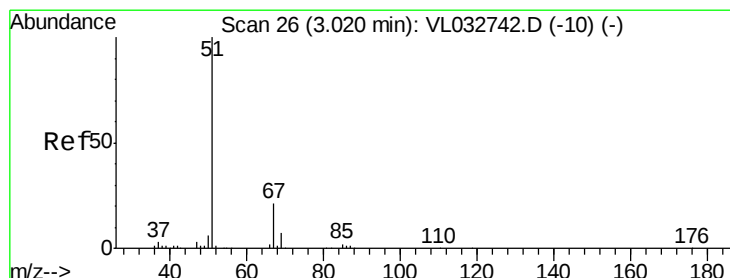
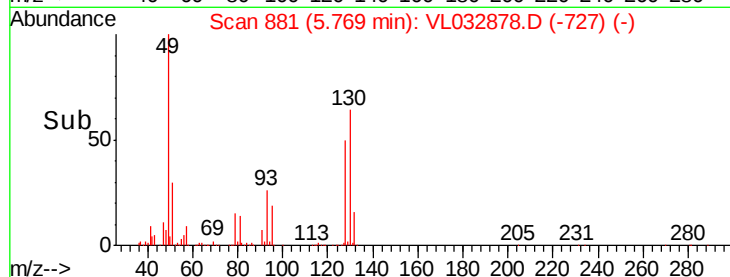
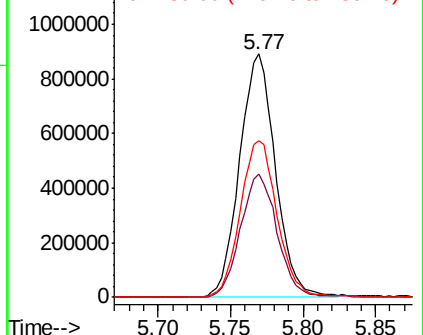
130 66.7 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032878.D

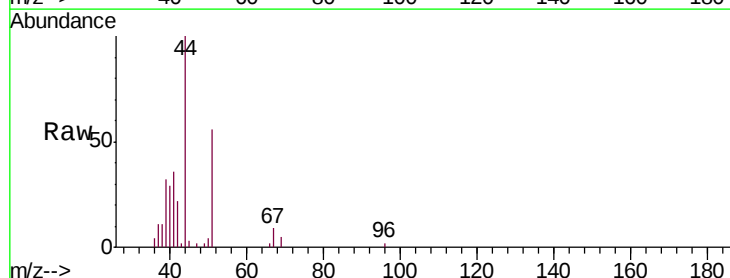
Acq: 4 Dec 2018 16:04

Tgt Ion: 51 Resp: 6954

Ion Ratio Lower Upper

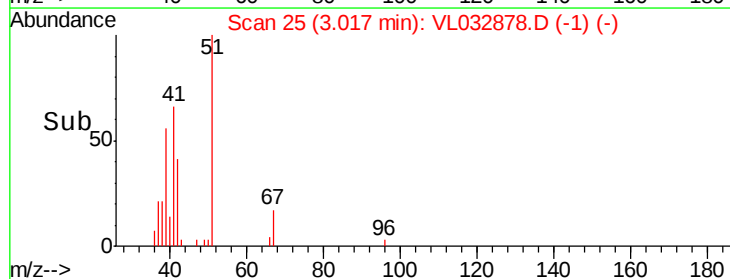
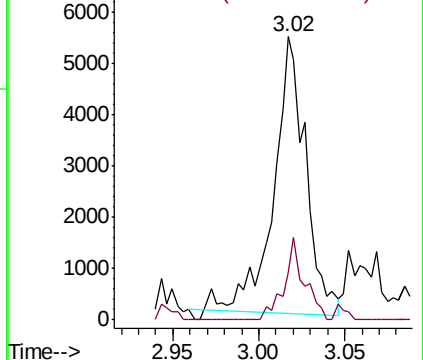
51 100

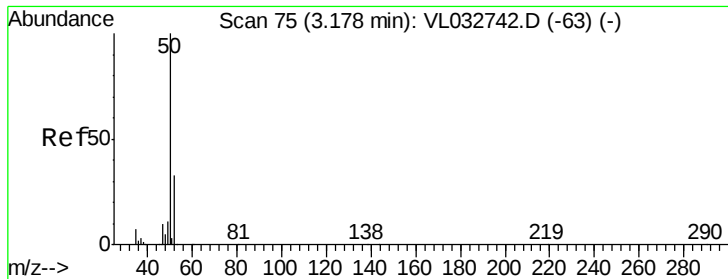
67 20.2 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.046 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

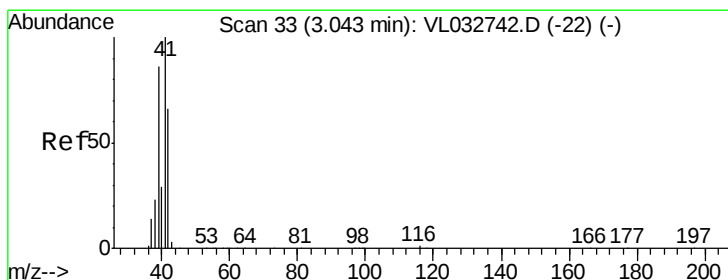
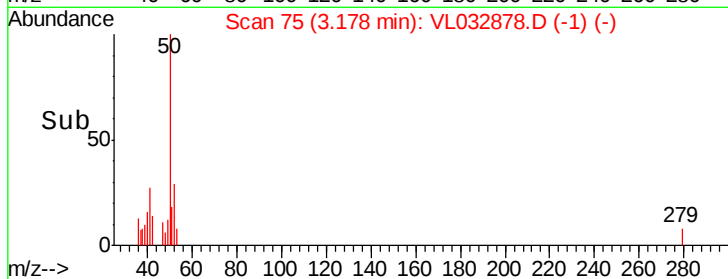
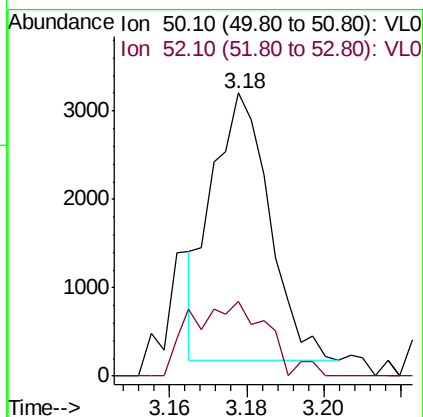
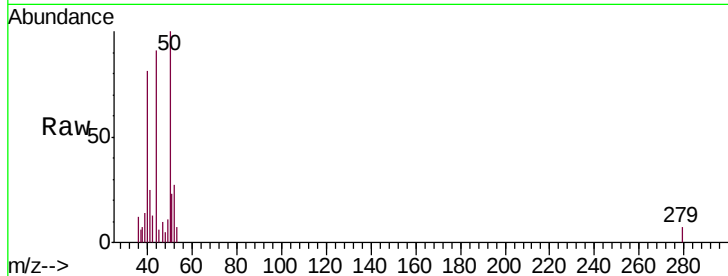
MMSV-06DL

Tgt Ion: 50 Resp: 3100

Ion Ratio Lower Upper

50 100

52 28.1 26.6 40.0



#9

Propene

Concen: 9.626 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032878.D

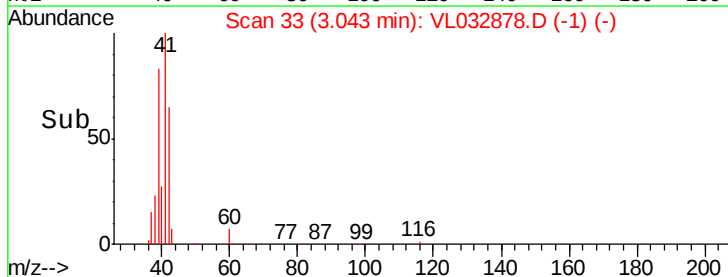
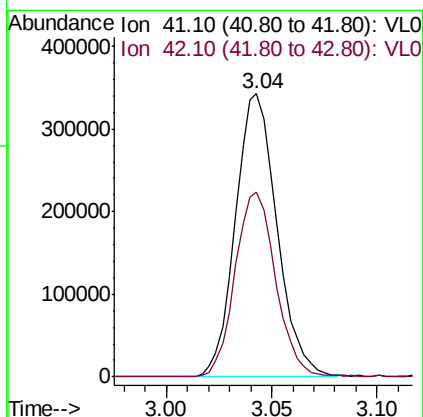
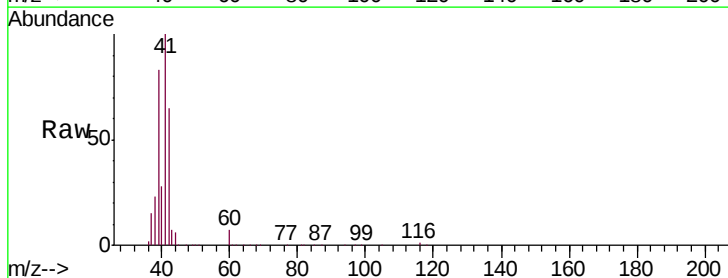
Acq: 4 Dec 2018 16:04

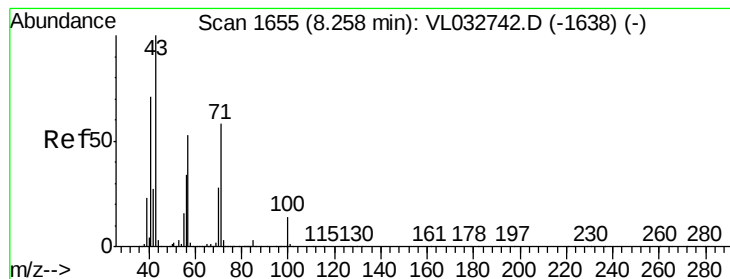
Tgt Ion: 41 Resp: 469018

Ion Ratio Lower Upper

41 100

42 64.1 55.0 82.6





#10

Heptane

Concen: 3.358 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

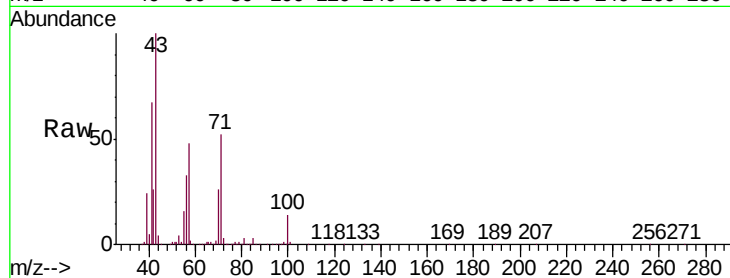
MMSV-06DL

Tgt Ion: 43 Resp: 624584

Ion Ratio Lower Upper

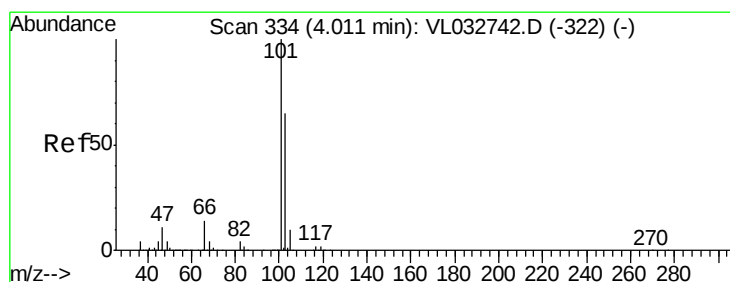
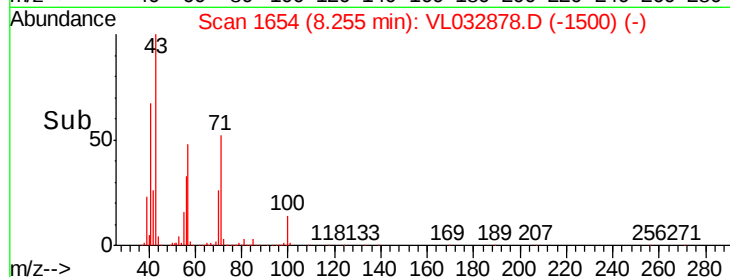
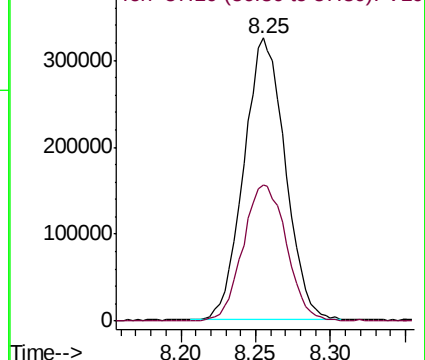
43 100

57 50.9 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032878.D

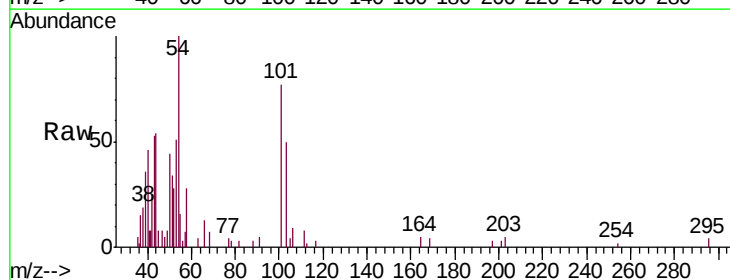
Acq: 4 Dec 2018 16:04

Tgt Ion: 101 Resp: 6397

Ion Ratio Lower Upper

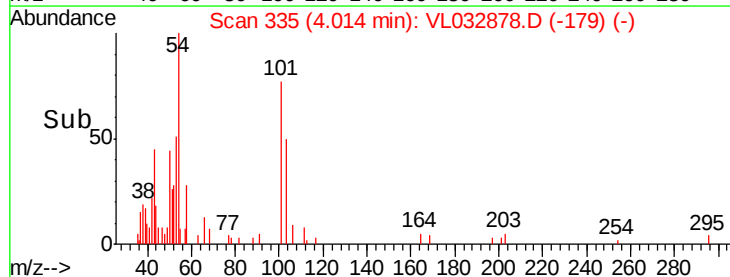
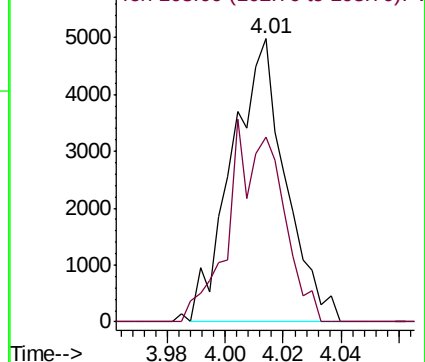
101 100

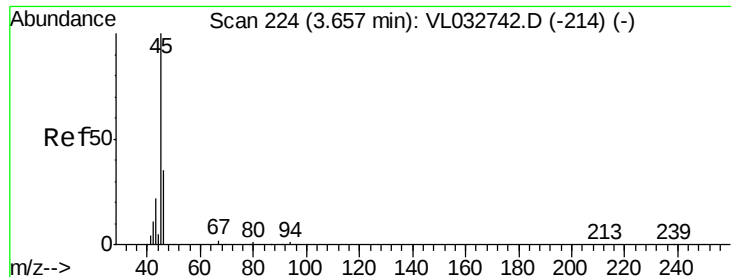
103 65.1 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

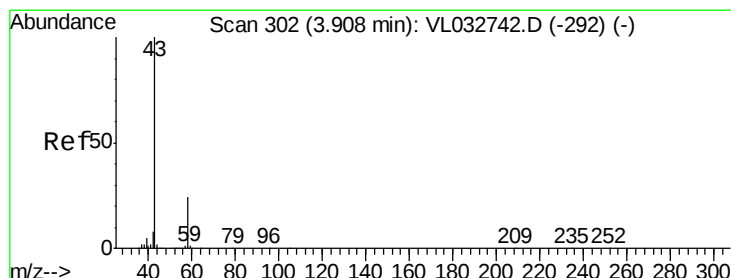
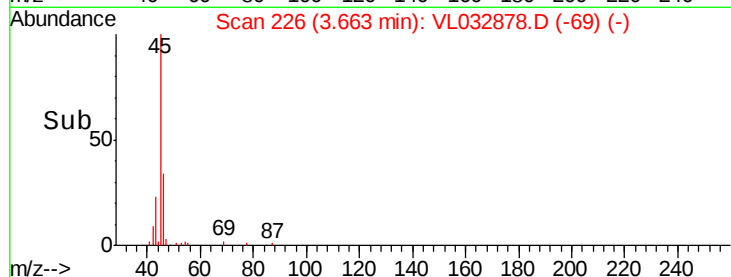
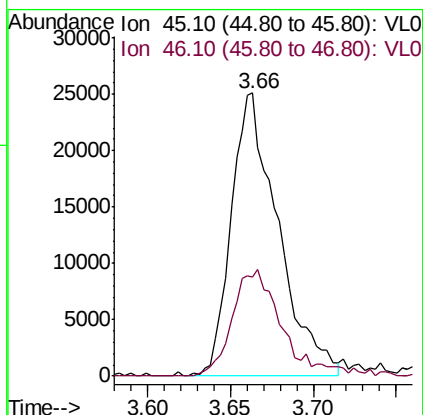
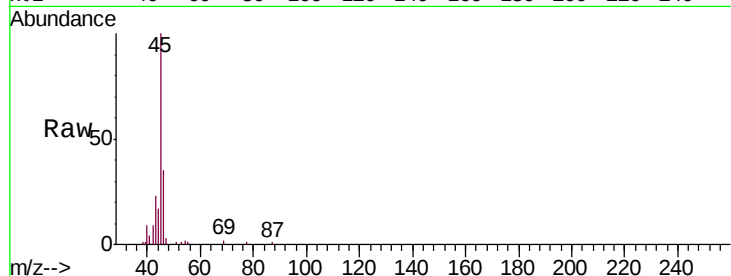




#13
Ethanol
Concen: 3.105 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

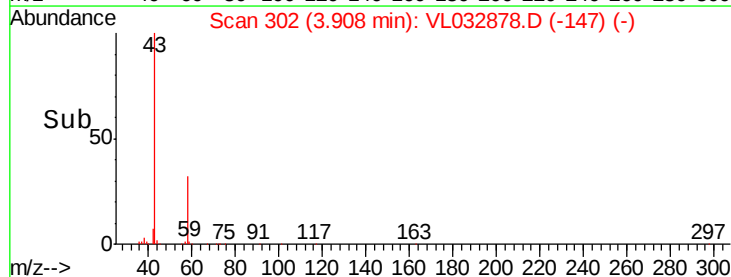
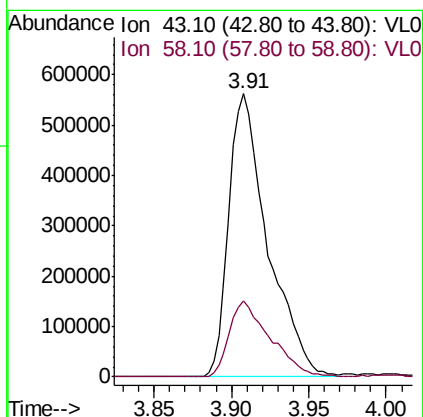
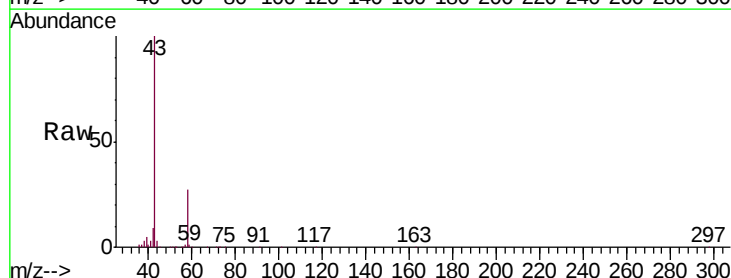
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

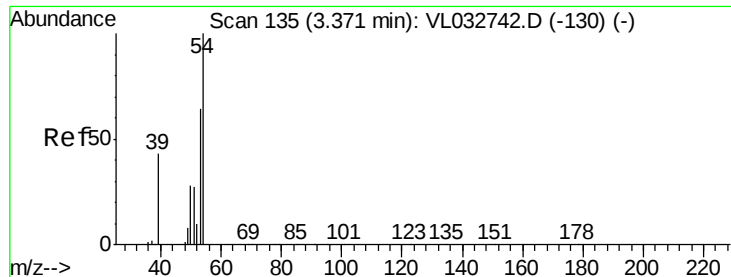
Tgt Ion: 45 Resp: 49547
Ion Ratio Lower Upper
45 100
46 40.4 14.5 57.9



#15
Acetone
Concen: 7.004 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion: 43 Resp: 982332
Ion Ratio Lower Upper
43 100
58 28.2 21.1 31.7





#16

1,3-Butadiene

Concen: 10.285 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

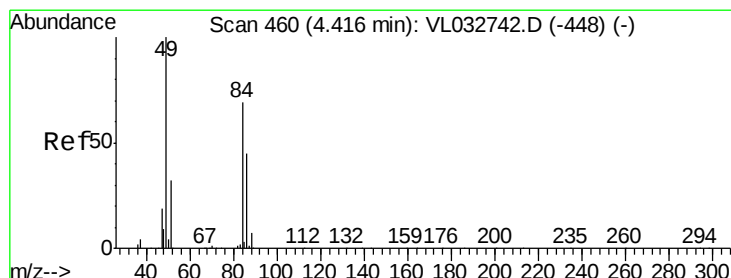
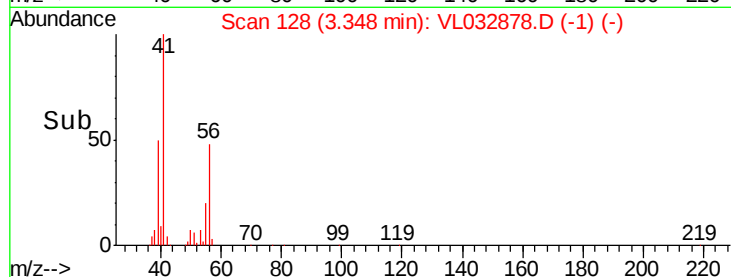
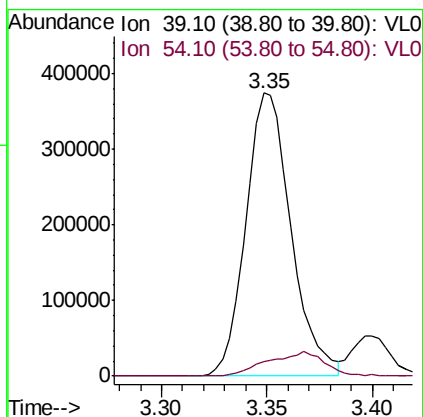
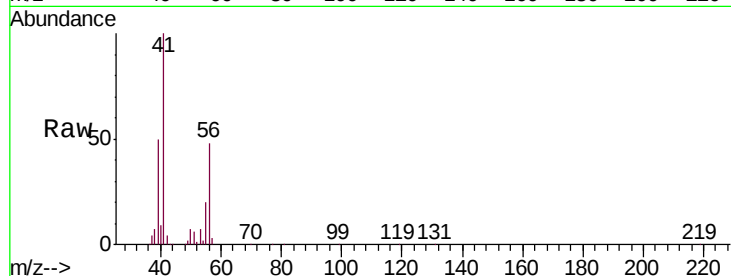
MMSV-06DL

Tgt Ion: 39 Resp: 558570

Ion Ratio Lower Upper

39 100

54 11.0 68.9 103.3#



#20

Methylene Chloride

Concen: 1.009 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Tgt Ion: 84 Resp: 73224

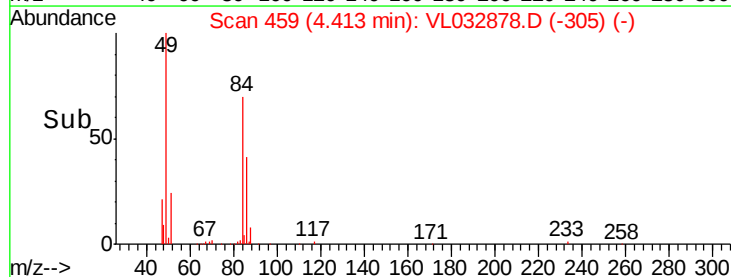
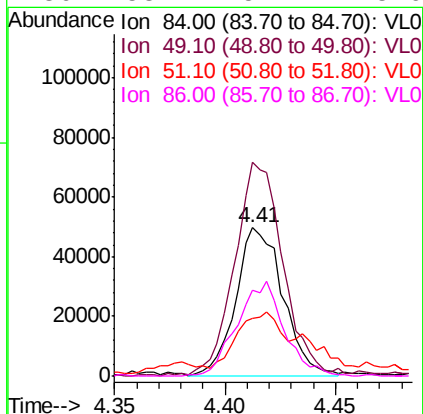
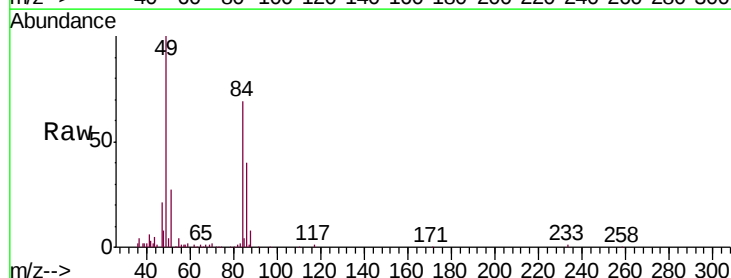
Ion Ratio Lower Upper

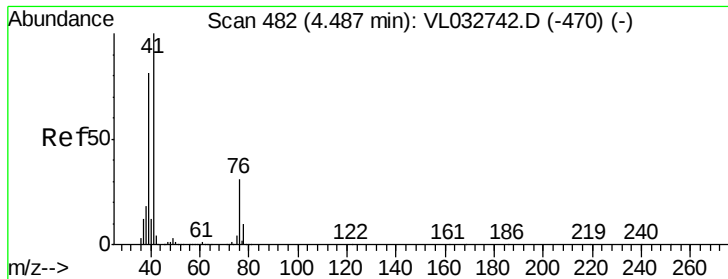
84 100

49 144.3 115.8 173.6

51 30.9 36.9 55.3#

86 58.1 52.4 78.6

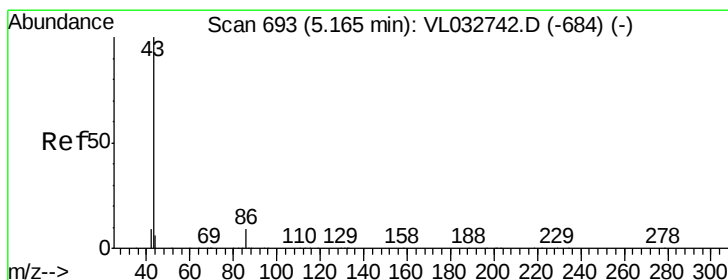
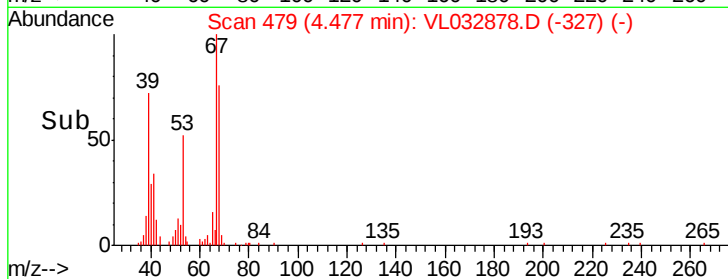
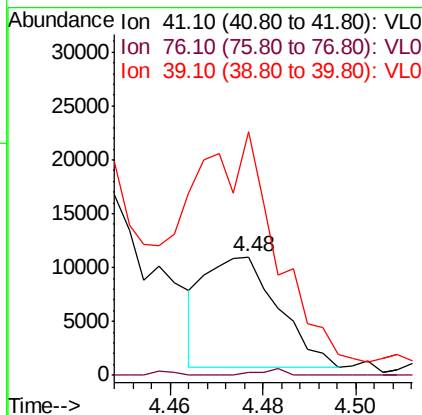
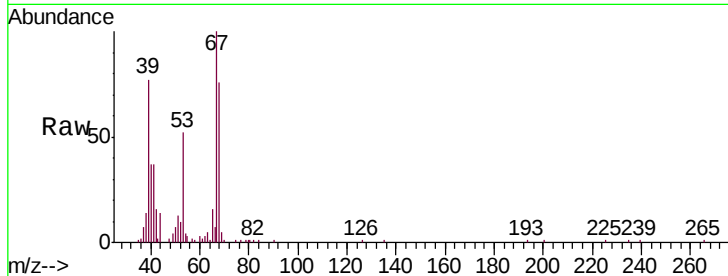




#21
 Allyl Chloride
 Concen: 0.096 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: VL032878.D
 Acq: 4 Dec 2018 16:04

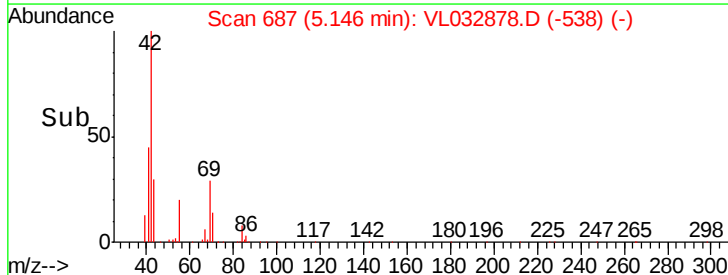
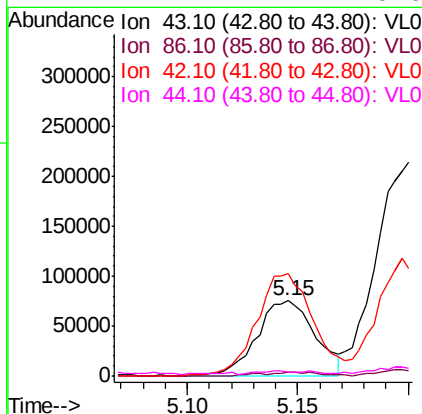
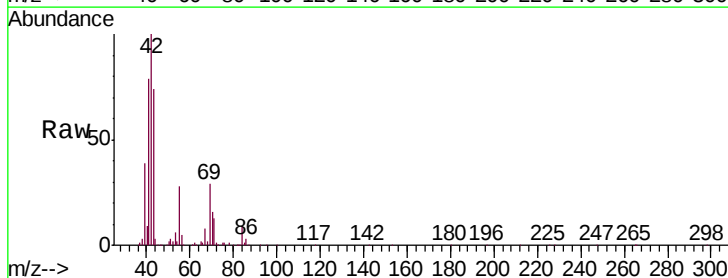
Instrument :
 MSVOA_L
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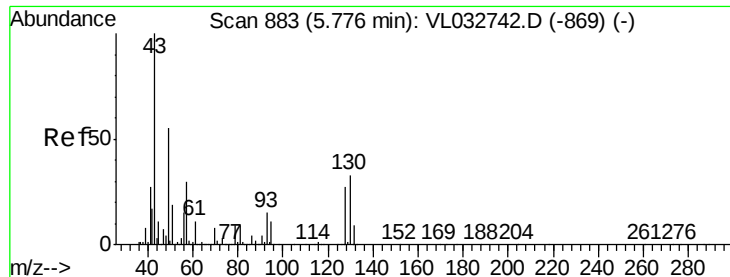
Tgt Ion: 41 Resp: 11270
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.4 36.6#
 39 233.9 63.5 95.3#



#23
 Vinyl Acetate
 Concen: 0.532 ppbv
 RT: 5.15 min Scan# 687
 Delta R.T. -0.02 min
 Lab File: VL032878.D
 Acq: 4 Dec 2018 16:04

Tgt Ion: 43 Resp: 136125
 Ion Ratio Lower Upper
 43 100
 86 4.6 6.2 9.4#
 42 135.6 7.8 11.6#
 44 1.7 4.4 6.6#

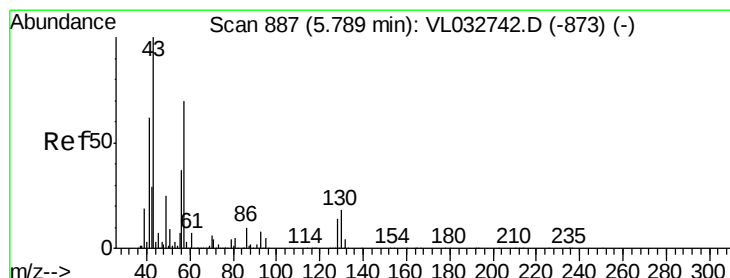
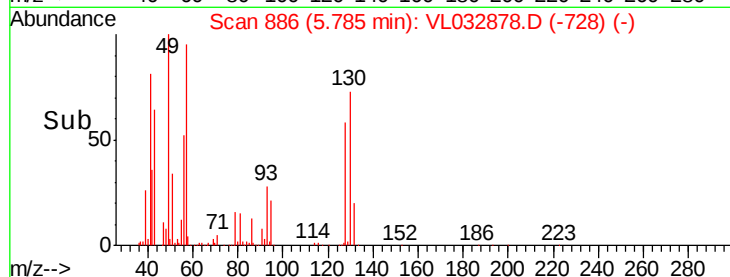
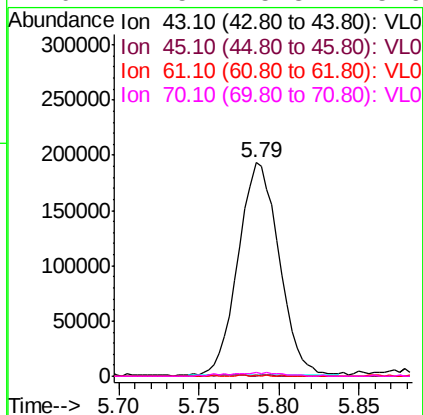
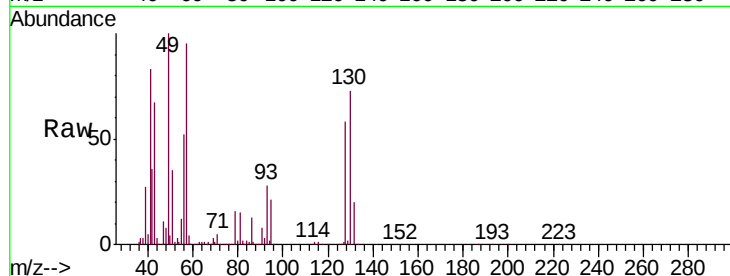




#25
Ethyl Acetate
Concen: 1.019 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

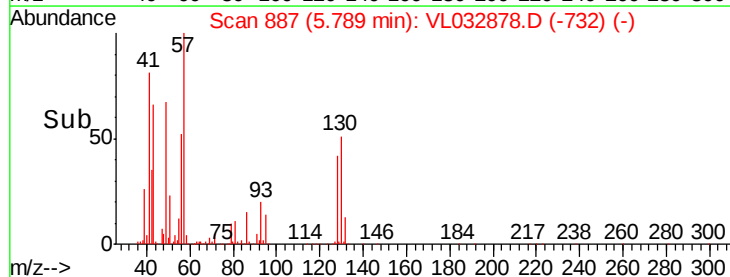
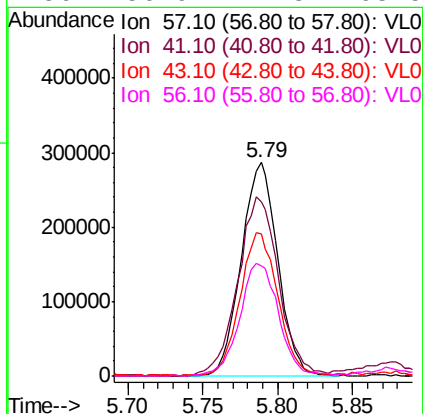
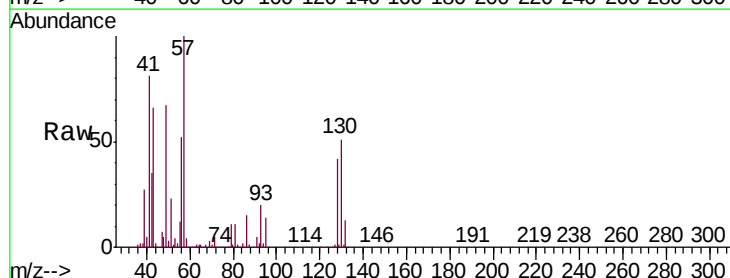
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

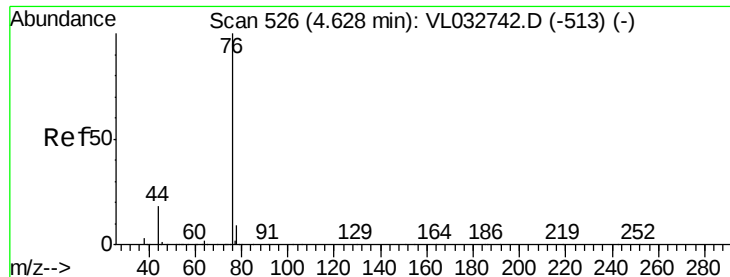
Tgt Ion:	43	Resp:	333069
Ion	Ratio	Lower	Upper
43	100		
45	0.7	7.9	11.9#
61	0.5	7.8	11.6#
70	2.5	5.8	8.6#



#26
Hexane
Concen: 3.347 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion:	57	Resp:	486974
Ion	Ratio	Lower	Upper
57	100		
41	93.4	70.3	105.5
43	69.8	174.0	261.0#
56	56.9	42.3	63.5





#27

Carbon Disulfide

Concen: 5.221 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

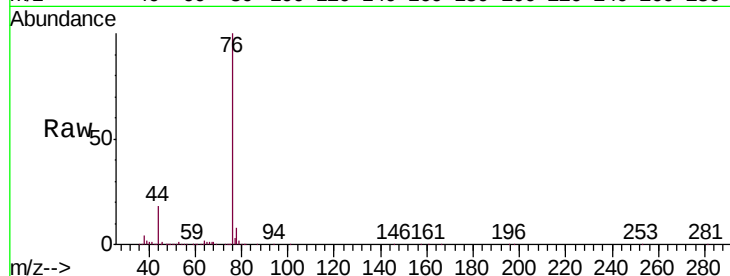
Tgt Ion: 76 Resp: 963310

Ion Ratio Lower Upper

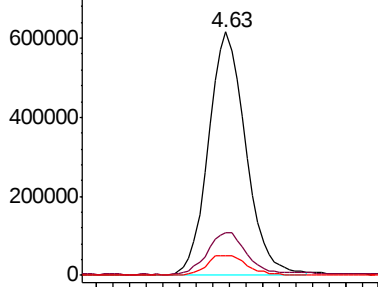
76 100

44 18.9 14.4 21.6

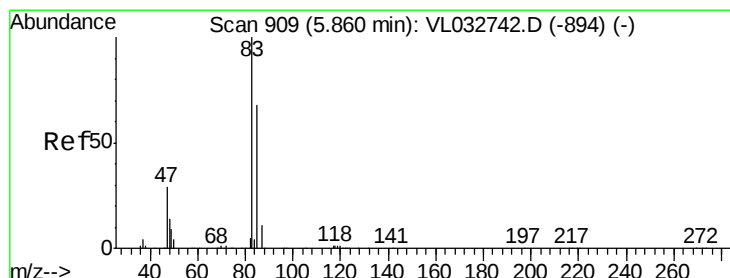
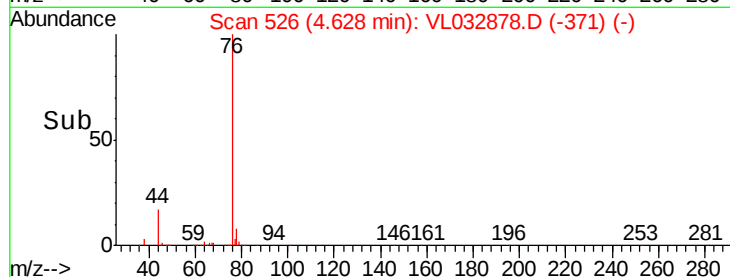
78 9.0 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



Time-->



#29

Chloroform

Concen: 0.037 ppbv

RT: 5.85 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL032878.D

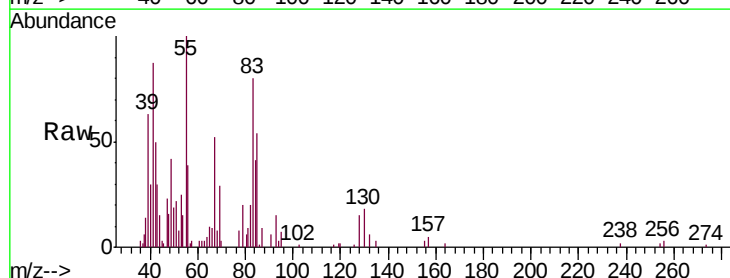
Acq: 4 Dec 2018 16:04

Tgt Ion: 83 Resp: 9709

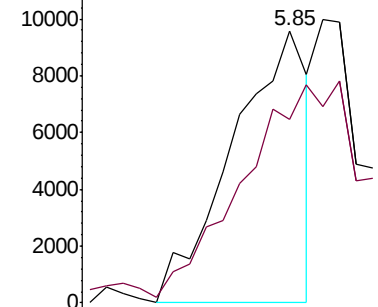
Ion Ratio Lower Upper

83 100

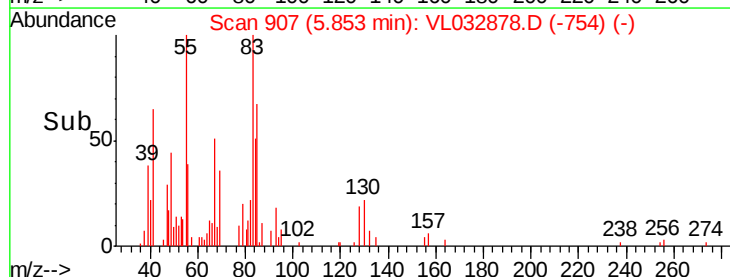
85 65.0 54.2 81.4

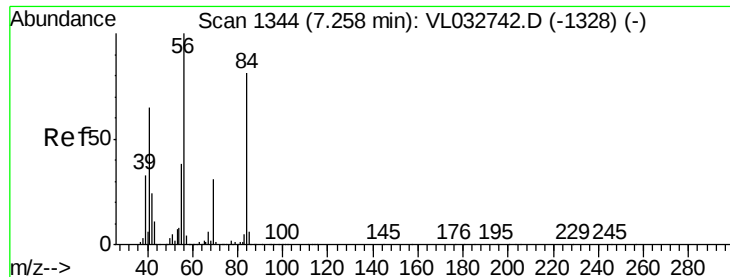


Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



Time-->

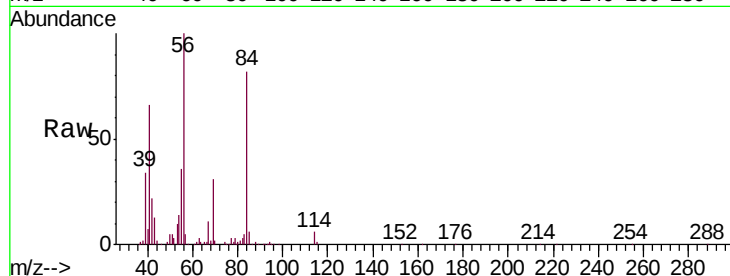




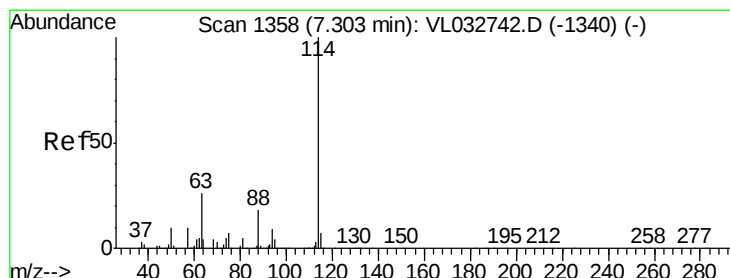
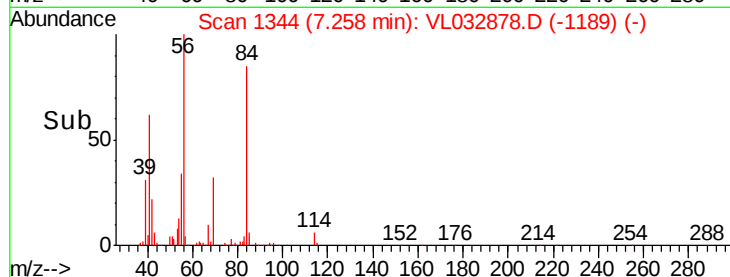
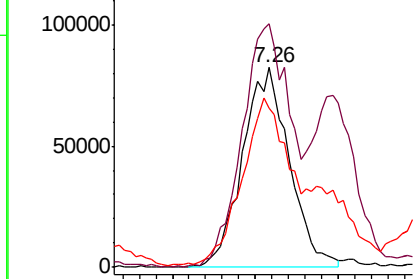
#30
Cyclohexane
Concen: 1.270 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

Tgt Ion: 84 Resp: 161642
Ion Ratio Lower Upper
84 100
56 135.1 105.0 157.4
41 119.8 65.3 97.9#

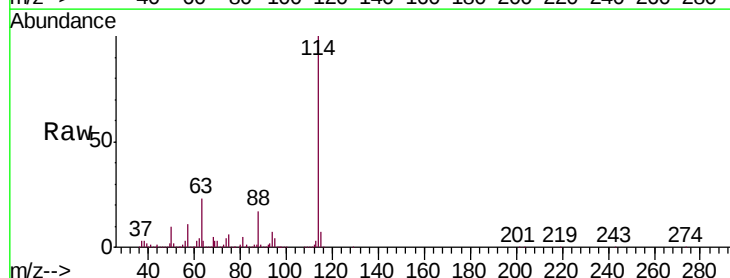


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

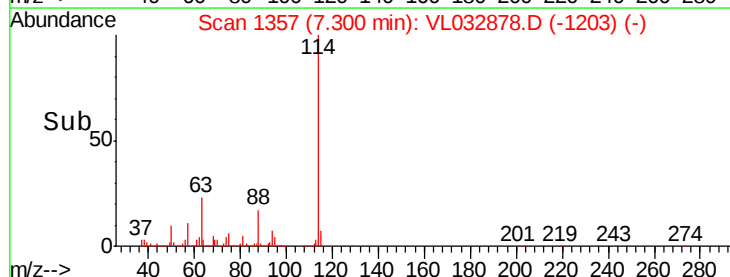
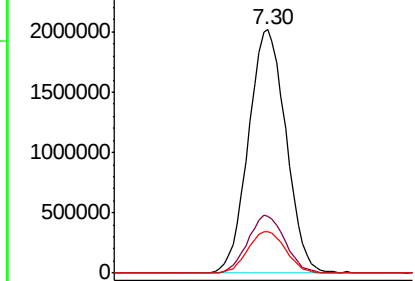


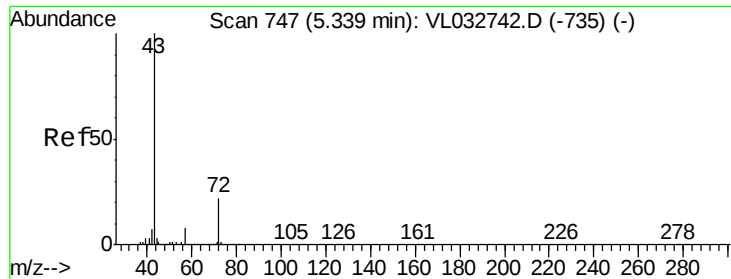
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion: 114 Resp: 3852668
Ion Ratio Lower Upper
114 100
63 23.7 20.9 31.3
88 17.3 14.4 21.6



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

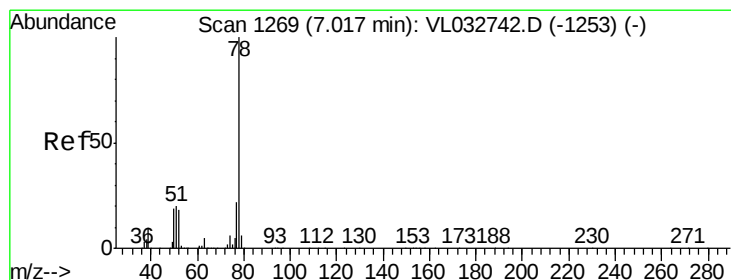
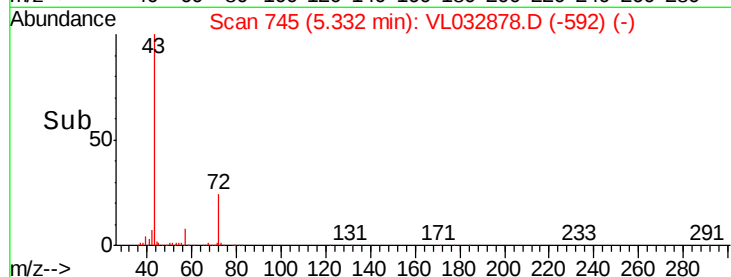
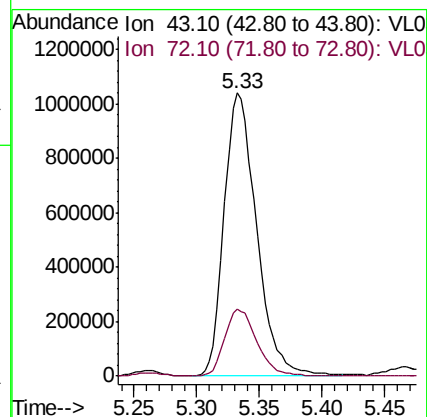
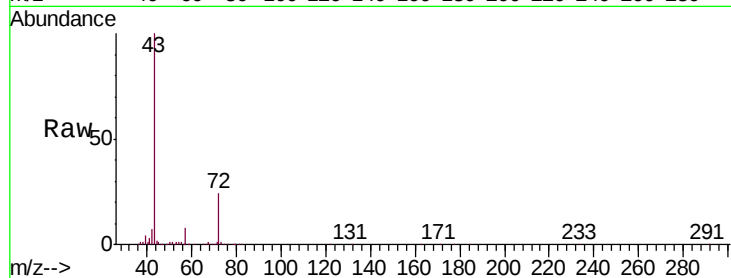




#34
2-Butanone
Concen: 9.289 ppbv
RT: 5.33 min Scan# 745
Delta R.T. -0.01 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

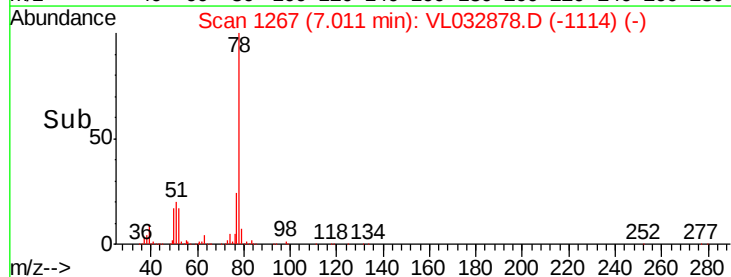
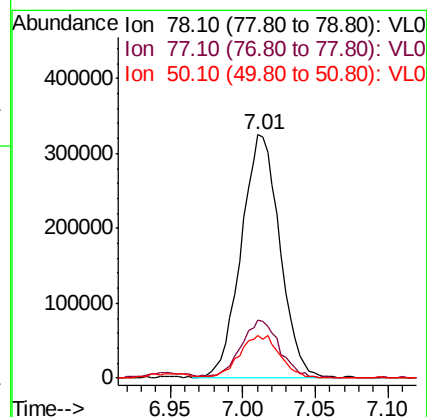
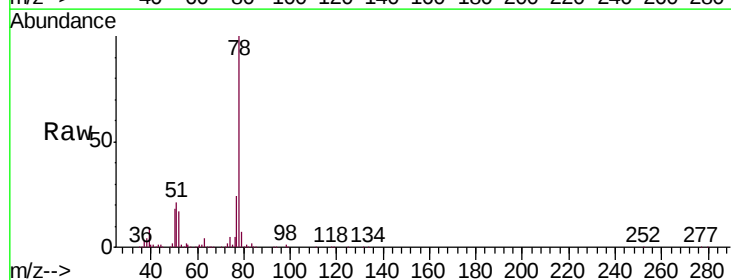
Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

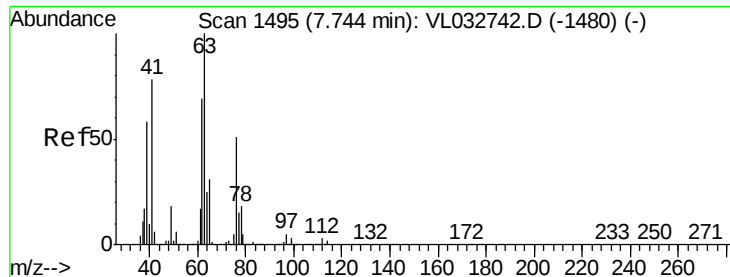
Tgt Ion: 43 Resp: 1856247
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6



#36
Benzene
Concen: 1.944 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion: 78 Resp: 596468
Ion Ratio Lower Upper
78 100
77 23.6 17.8 26.8
50 17.5 15.4 23.0





#39

1,2-Dichloropropane

Concen: 7.703 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

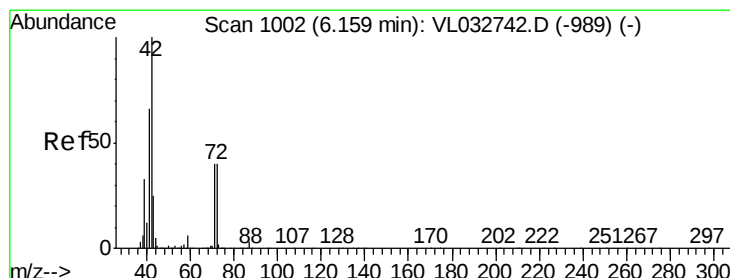
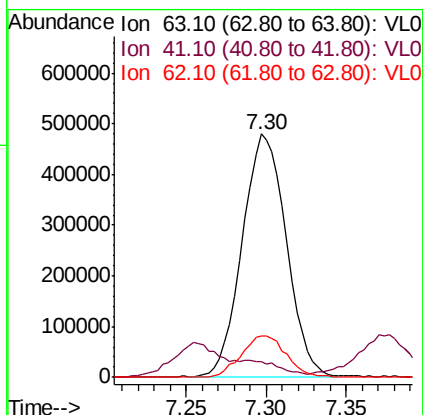
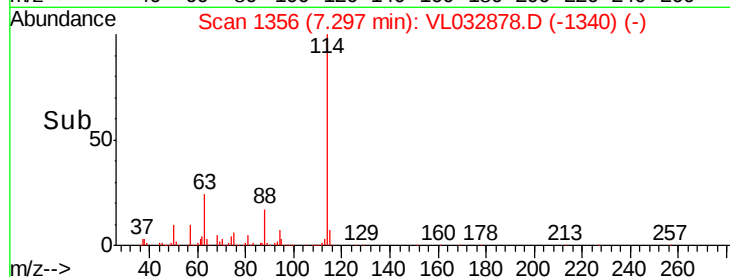
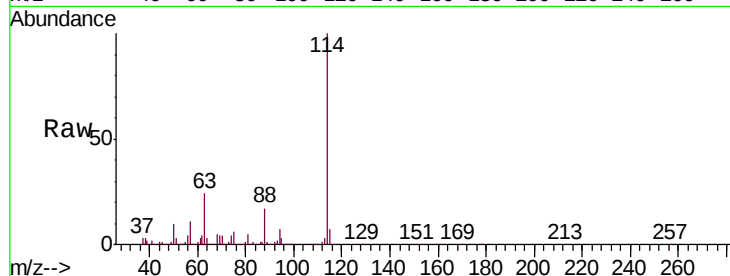
Tgt Ion: 63 Resp: 900366

Ion Ratio Lower Upper

63 100

41 2.5 62.0 93.0#

62 16.7 55.4 83.2#



#41

Tetrahydrofuran

Concen: 1.909 ppbv

RT: 6.17 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

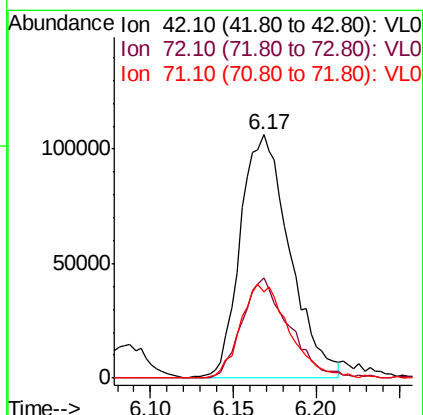
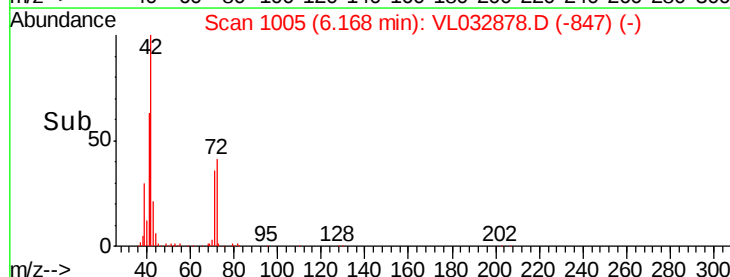
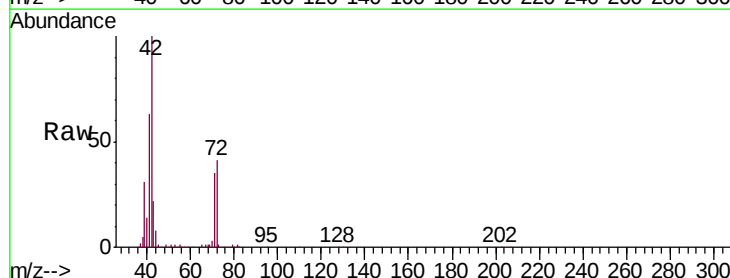
Tgt Ion: 42 Resp: 218799

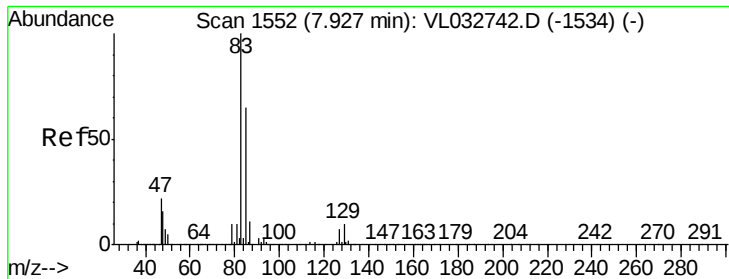
Ion Ratio Lower Upper

42 100

72 39.5 32.4 48.6

71 39.0 31.6 47.4





#42

Bromodichloromethane

Concen: 0.056 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

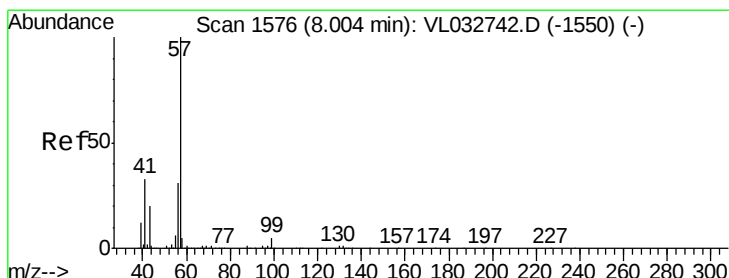
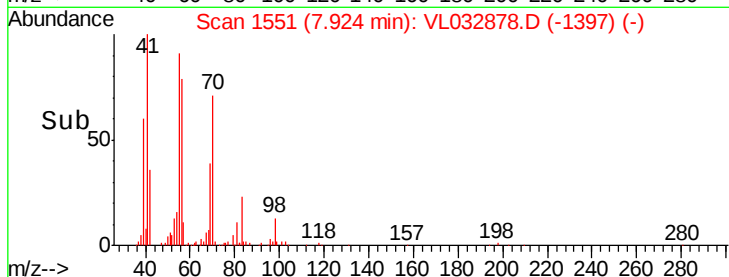
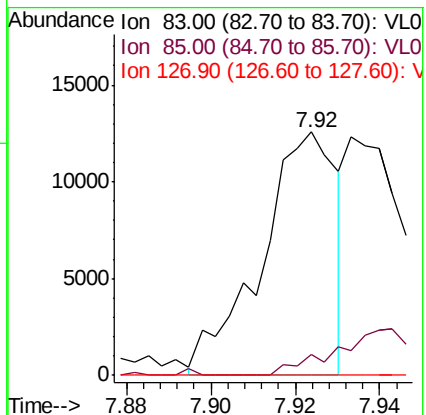
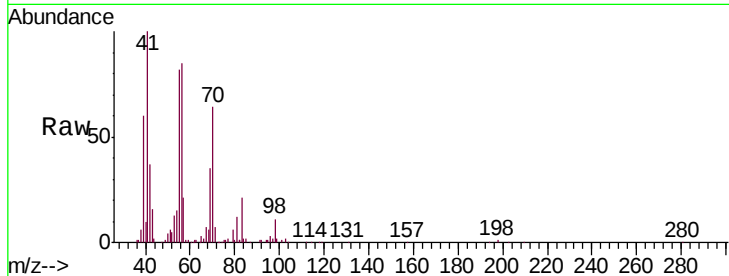
Tgt Ion: 83 Resp: 15566

Ion Ratio Lower Upper

83 100

85 5.9 51.8 77.8#

127 0.0 5.9 8.9#



#44

2,2,4-Trimethylpentane

Concen: 0.229 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

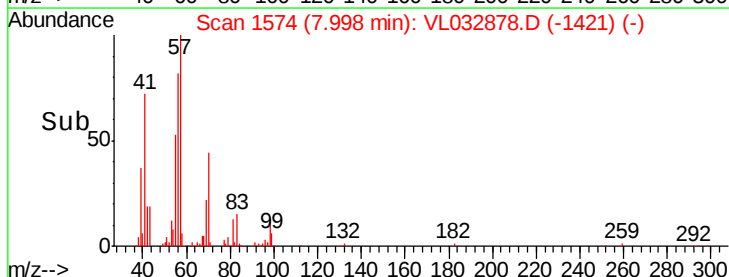
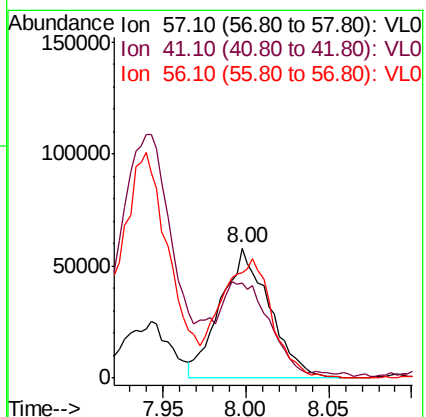
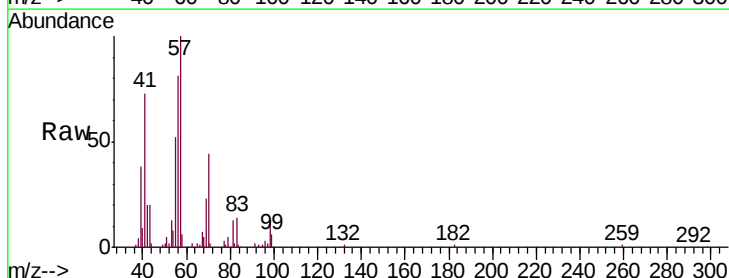
Tgt Ion: 57 Resp: 117234

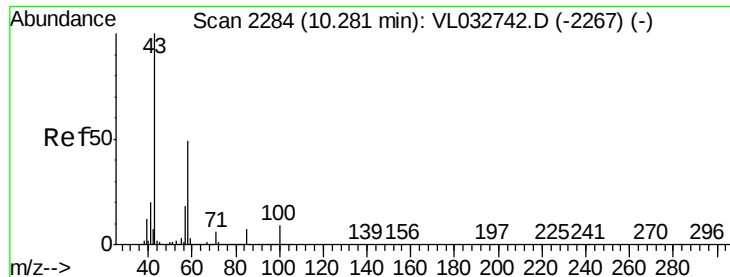
Ion Ratio Lower Upper

57 100

41 72.9 26.6 39.8#

56 98.0 24.8 37.2#





#51

2-Hexanone

Concen: 0.221 ppbv

RT: 10.26 min Scan# 2278

Delta R.T. -0.02 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

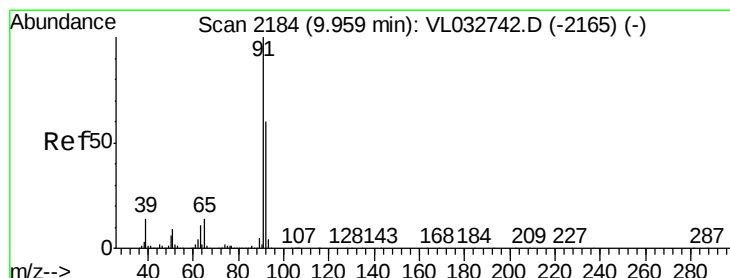
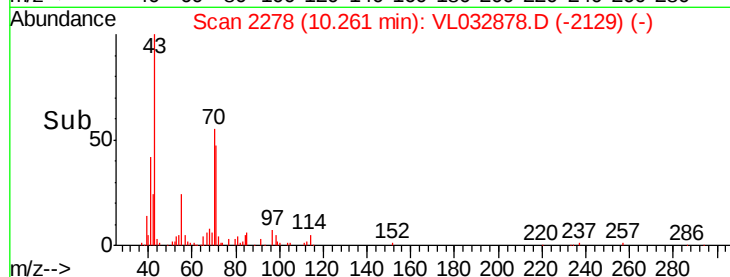
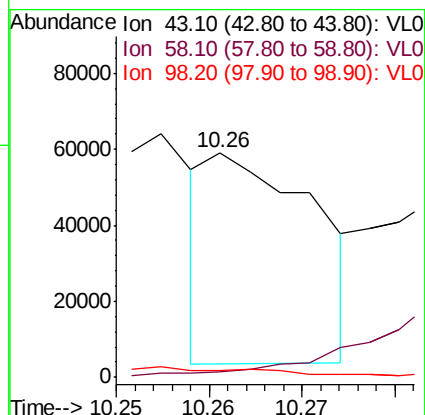
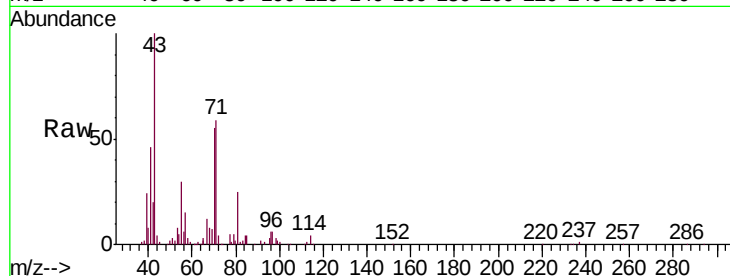
Tgt Ion: 43 Resp: 44343

Ion Ratio Lower Upper

43 100

58 0.0 38.9 58.3#

98 0.0 0.2 0.4#



#53

Toluene

Concen: 1.840 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032878.D

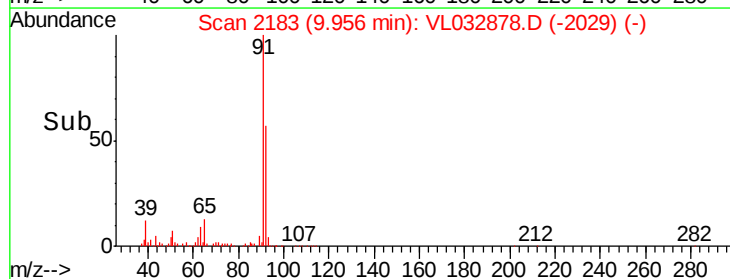
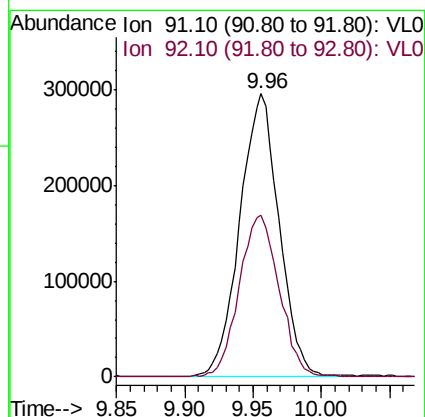
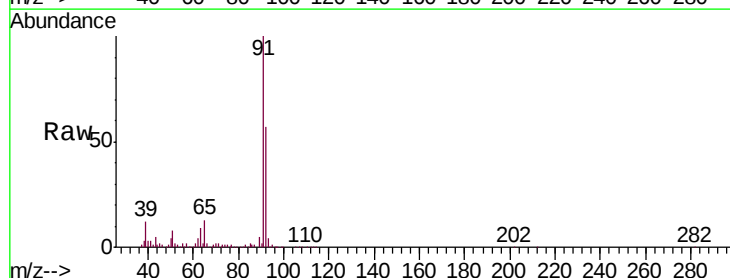
Acq: 4 Dec 2018 16:04

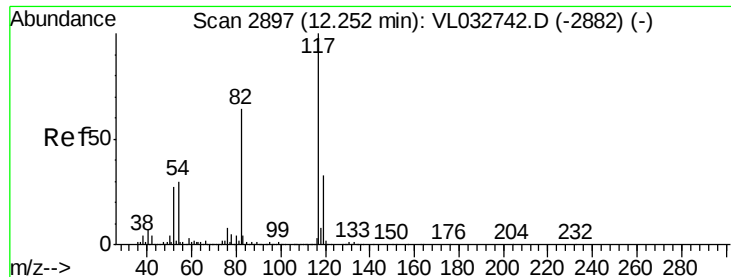
Tgt Ion: 91 Resp: 588777

Ion Ratio Lower Upper

91 100

92 58.5 47.9 71.9

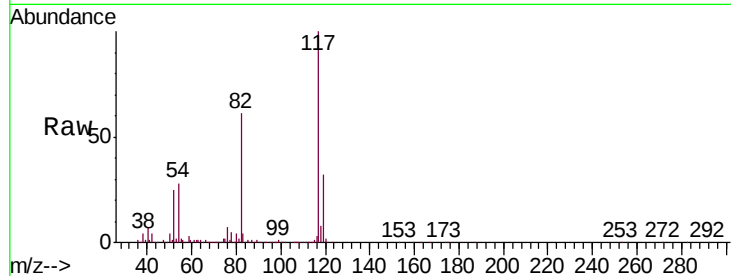




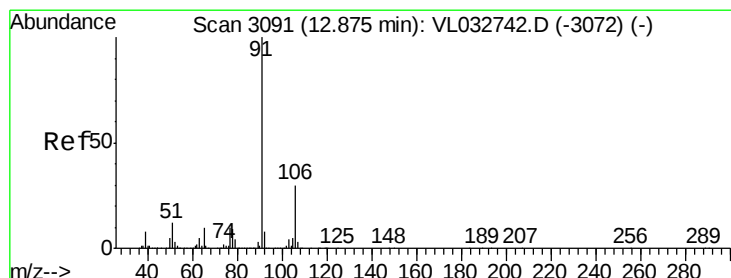
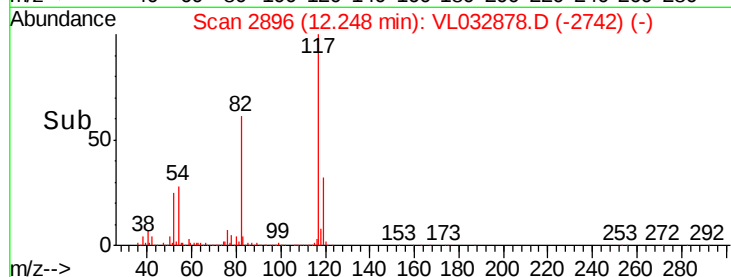
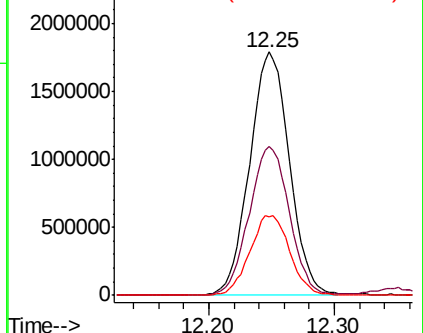
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

Tgt Ion:117 Resp: 3948321
Ion Ratio Lower Upper
117 100
82 62.1 51.0 76.6
119 33.2 28.0 42.0

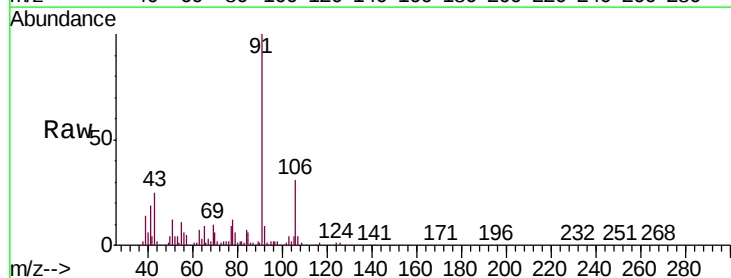


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

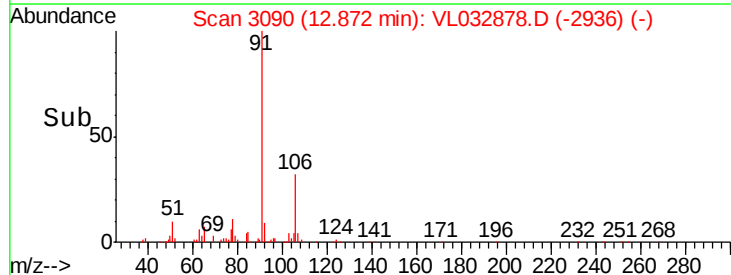
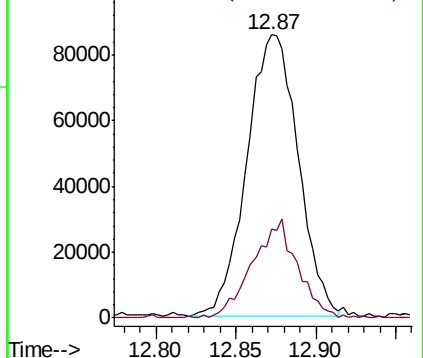


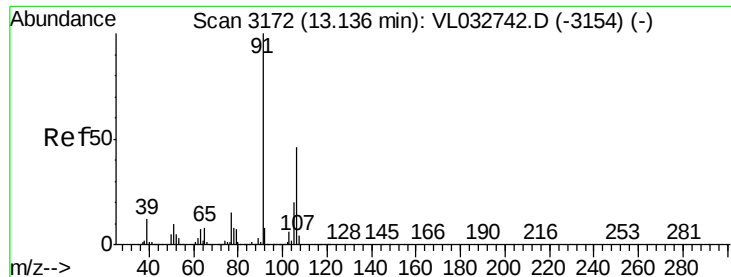
#58
Ethyl Benzene
Concen: 0.397 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion: 91 Resp: 188873
Ion Ratio Lower Upper
91 100
106 31.6 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.362 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

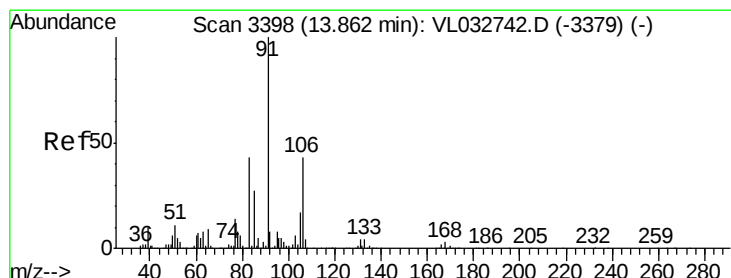
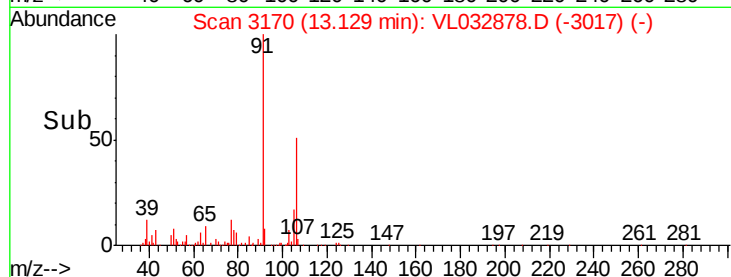
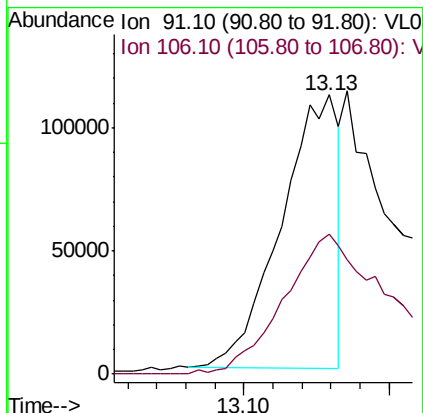
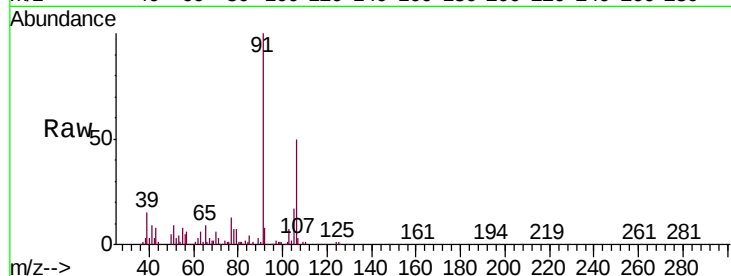
MMSV-06DL

Tgt Ion: 91 Resp: 152960

Ion Ratio Lower Upper

91 100

106 100.7 36.1 54.1#



#60

o-Xylene

Concen: 0.341 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. -0.00 min

Lab File: VL032878.D

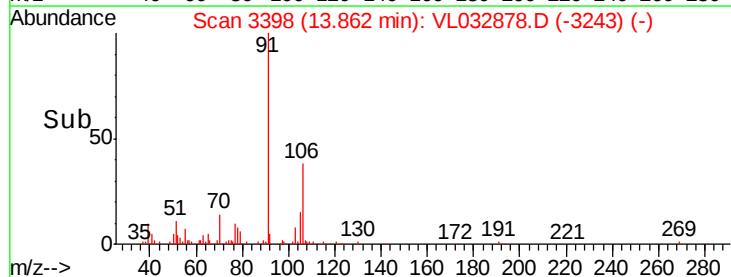
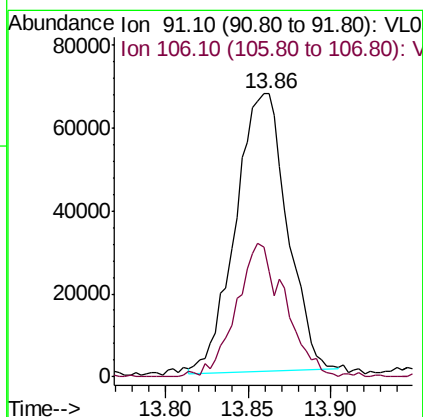
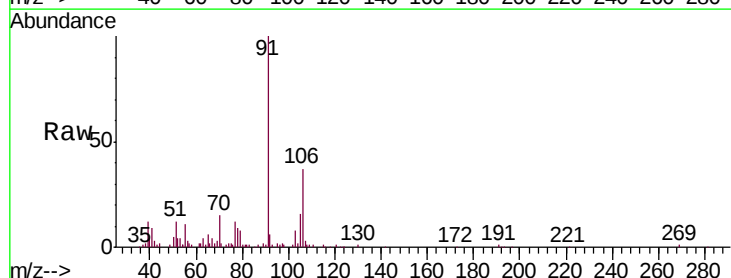
Acq: 4 Dec 2018 16:04

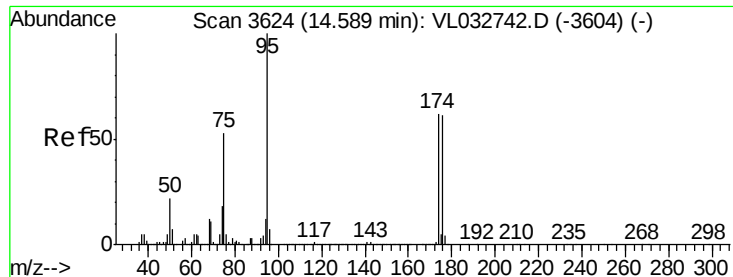
Tgt Ion: 91 Resp: 145197

Ion Ratio Lower Upper

91 100

106 46.1 21.9 65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 9.702 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

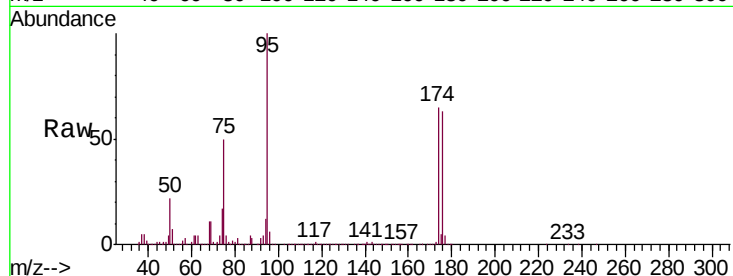
Tgt Ion: 95 Resp: 2865128

Ion Ratio Lower Upper

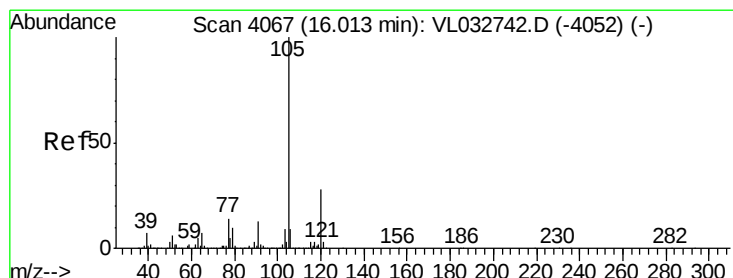
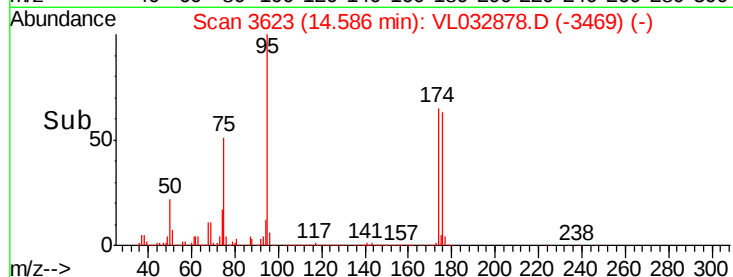
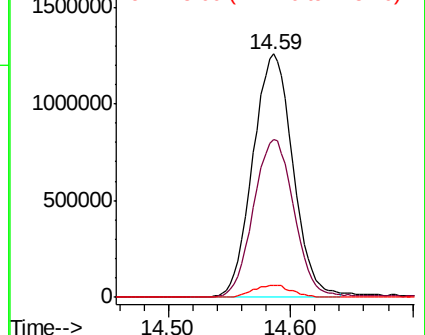
95 100

174 67.3 50.7 76.1

175 5.0 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.041 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Tgt Ion: 105 Resp: 19225

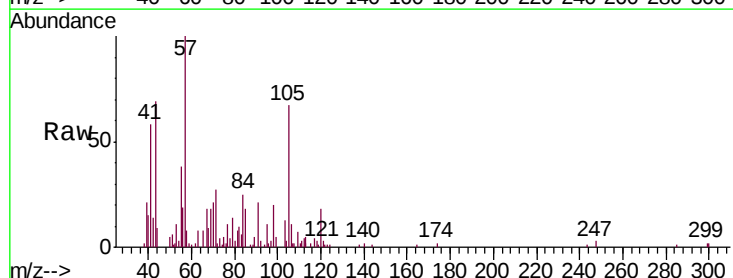
Ion Ratio Lower Upper

105 100

120 39.9 22.9 34.3#

91 30.1 10.6 15.8#

77 29.9 11.4 17.2#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

