

Data File : VL034149.D
Acq On : 10 Sep 2019 19:10
Operator : SY/AP
Sample : K4775-03DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Quant Time: Sep 11 01:52:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Sep 05 10:21:45 2019
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	722148	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1435832	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.17	117	1409013	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1193271 10.36 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.60%

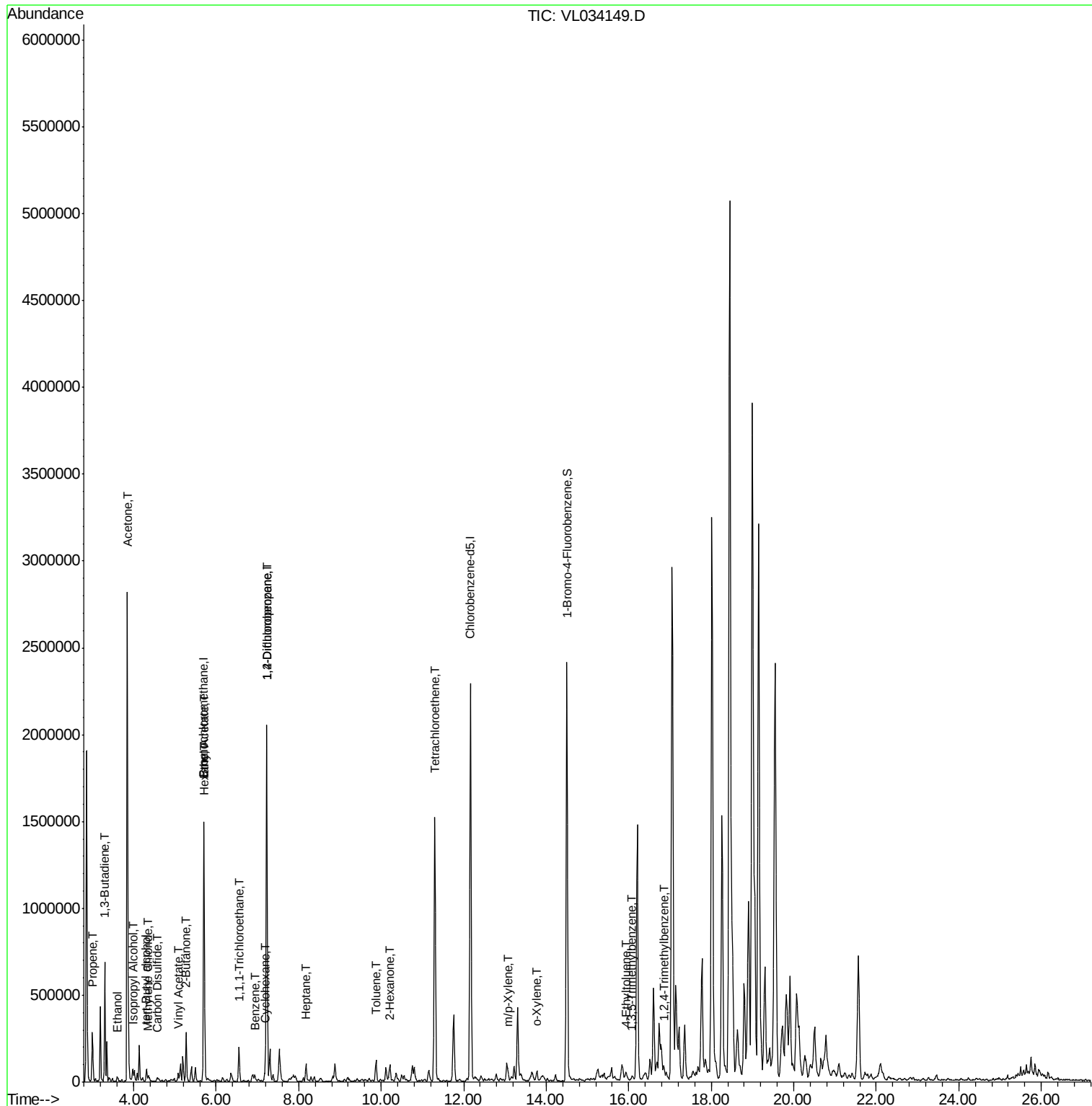
Target Compounds					Qvalue
9) Propene	3.00	41	114862	2.550 ppbv	92
10) Heptane	8.18	43	49026	0.419 ppbv	94
13) Ethanol	3.60	45	18074	2.048 ppbv	71
15) Acetone	3.84	43	2926353	33.623 ppbv	94
16) 1,3-Butadiene	3.30	39	165825	3.762 ppbv #	19
17) tert-Butyl alcohol	4.31	59	49817	0.788 ppbv	96
19) Isopropyl Alcohol	3.97	45	33406	0.569 ppbv #	97
20) Methylene Chloride	4.35	84	8575	0.298 ppbv #	73
23) Vinyl Acetate	5.08	43	26111	0.177 ppbv #	49
25) Ethyl Acetate	5.71	43	22701	0.119 ppbv #	83
26) Hexane	5.72	57	63403	0.746 ppbv #	39
27) Carbon Disulfide	4.57	76	10262	0.134 ppbv #	7
30) Cyclohexane	7.18	84	15371	0.250 ppbv #	82
32) 1,1,1-Trichloroethane	6.56	97	109062	1.008 ppbv	100
34) 2-Butanone	5.27	43	310638	2.250 ppbv	99
36) Benzene	6.93	78	17482	0.107 ppbv #	80
39) 1,2-Dichloropropane	7.22	63	410105	5.839 ppbv #	24
51) 2-Hexanone	10.21	43	83595	0.459 ppbv #	100
52) Tetrachloroethene	11.30	164	379677	6.561 ppbv	95
53) Toluene	9.87	91	90168	0.497 ppbv	98
59) m/p-Xylene	13.08	91	20707	0.110 ppbv #	32
60) o-Xylene	13.77	91	21782	0.116 ppbv #	53
72) 4-Ethyltoluene	15.93	105	11880	0.056 ppbv #	57
73) 1,3,5-Trimethylbenzene	16.08	105	6892	0.033 ppbv #	58
74) 1,2,4-Trimethylbenzene	16.85	105	18378	0.087 ppbv #	70

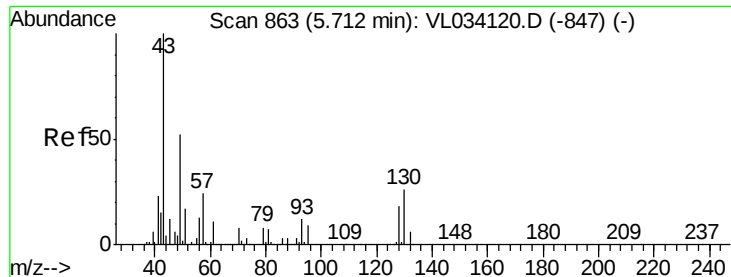
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.01 min

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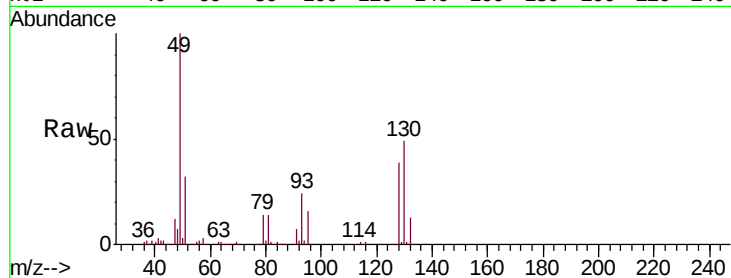
Tgt Ion: 49 Resp: 722148

Ion Ratio Lower Upper

49 100

128 39.9 18.4 55.0

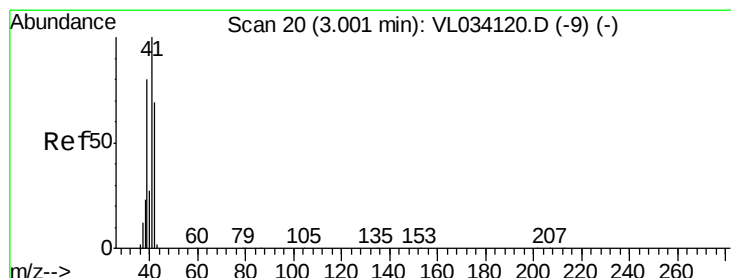
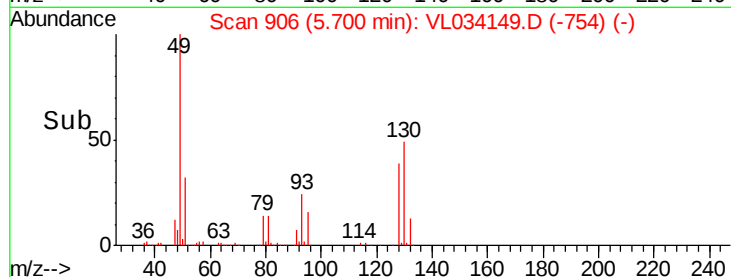
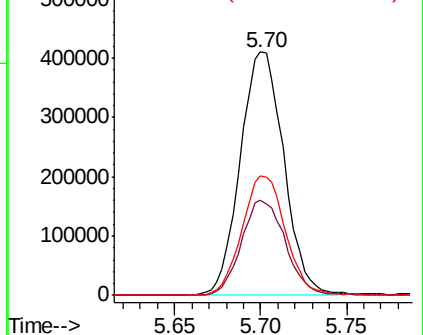
130 49.6 23.5 70.6



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



#9

Propene

Concen: 2.550 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034149.D

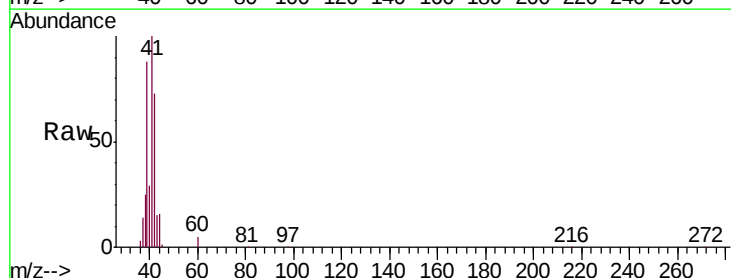
Acq: 10 Sep 2019 19:10

Tgt Ion: 41 Resp: 114862

Ion Ratio Lower Upper

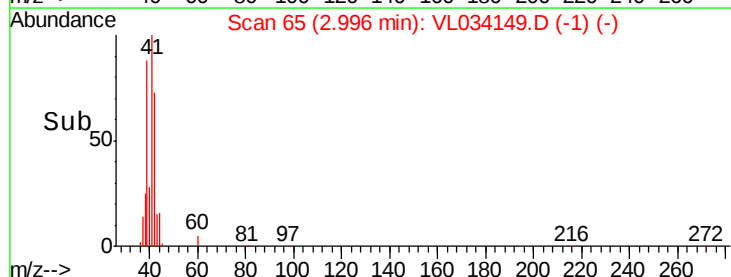
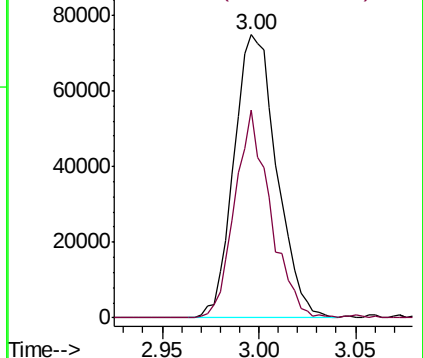
41 100

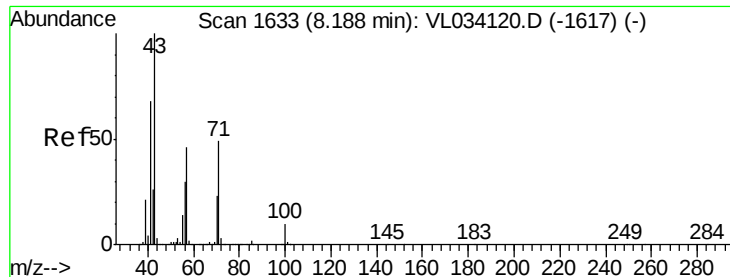
42 61.6 54.6 81.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

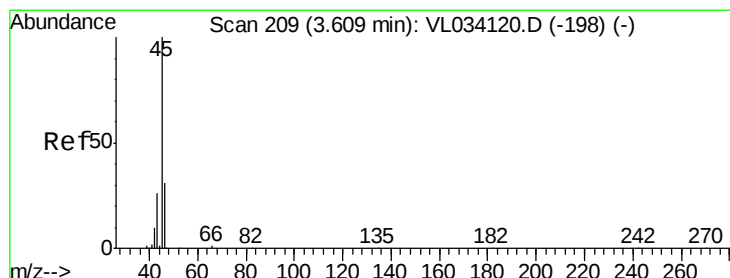
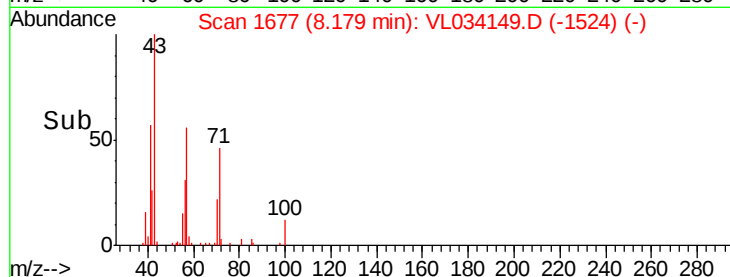
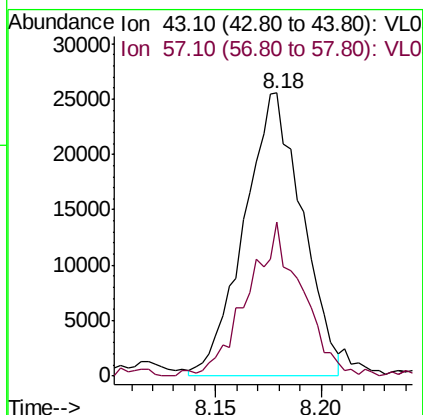
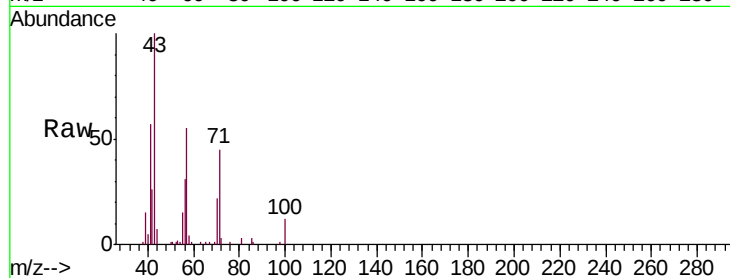




#10
Heptane
Concen: 0.419 ppbv
RT: 8.18 min Scan# 1677
Delta R.T. -0.01 min
Lab File: VL034149.D
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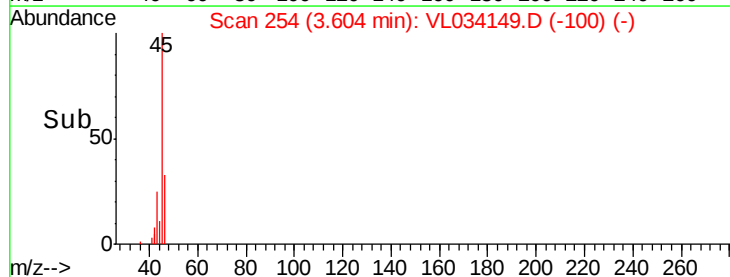
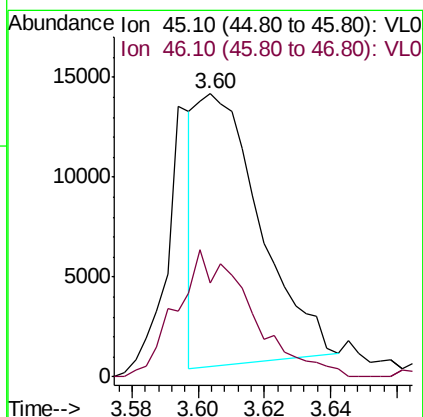
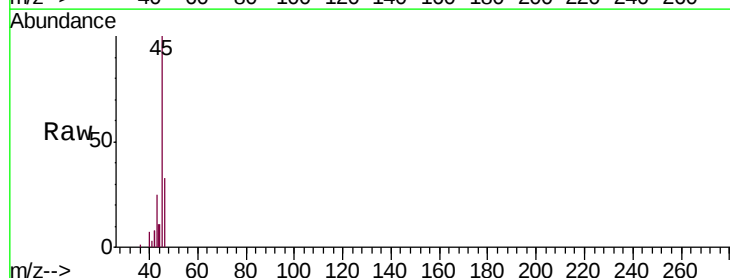
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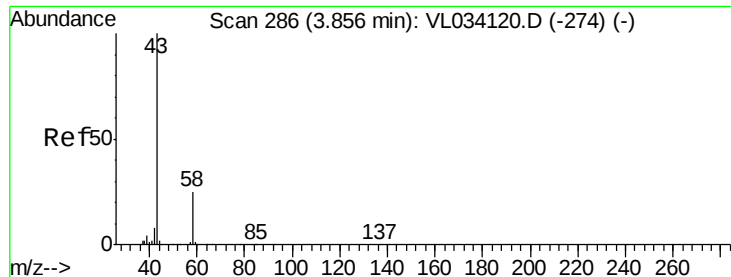
Tgt Ion: 43 Resp: 49026
Ion Ratio Lower Upper
43 100
57 51.7 38.1 57.1



#13
Ethanol
Concen: 2.048 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 45 Resp: 18074
Ion Ratio Lower Upper
45 100
46 55.0 15.0 60.0





#15

Acetone

Concen: 33.623 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

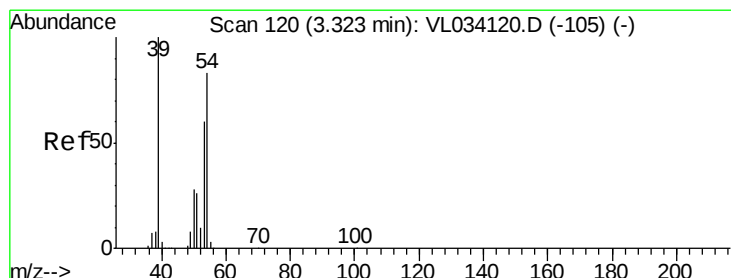
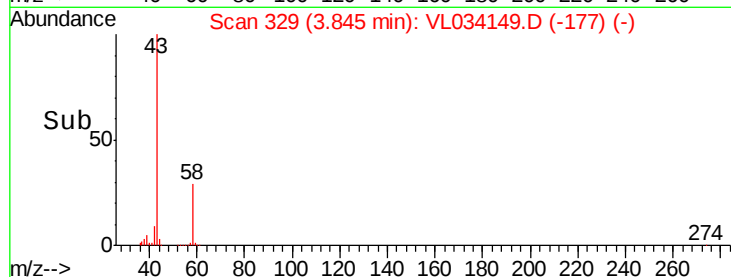
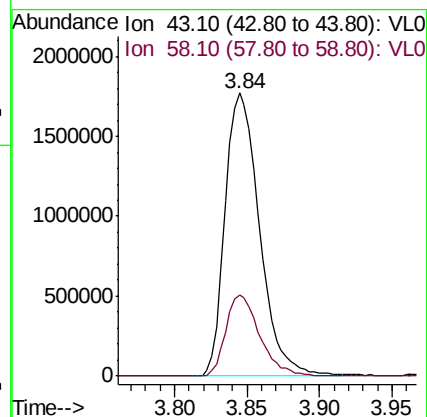
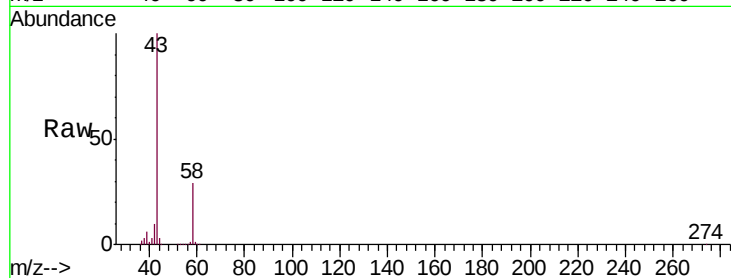
SV3DL

Tgt Ion: 43 Resp: 2926353

Ion Ratio Lower Upper

43 100

58 28.5 20.6 30.8



#16

1,3-Butadiene

Concen: 3.762 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL034149.D

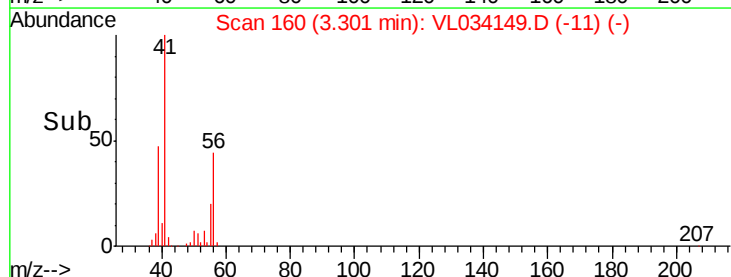
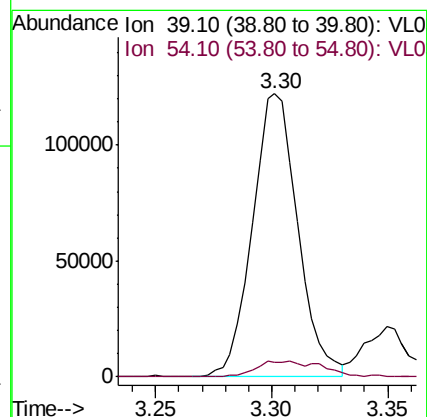
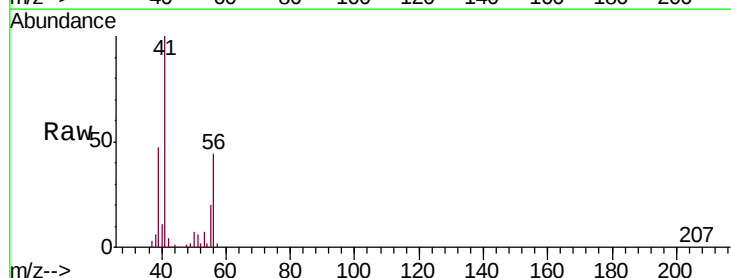
Acq: 10 Sep 2019 19:10

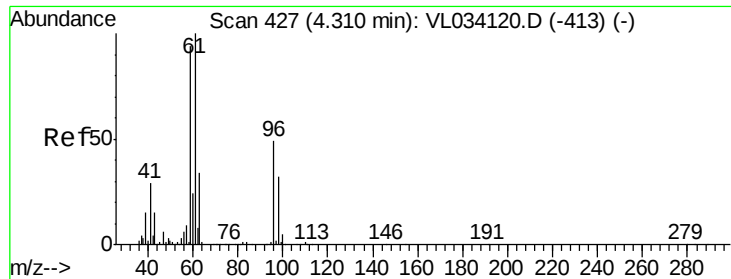
Tgt Ion: 39 Resp: 165825

Ion Ratio Lower Upper

39 100

54 8.4 63.5 95.3#

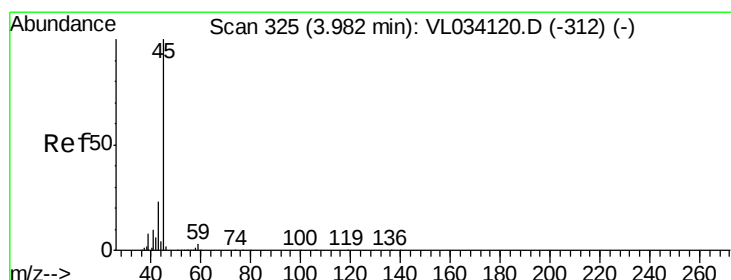
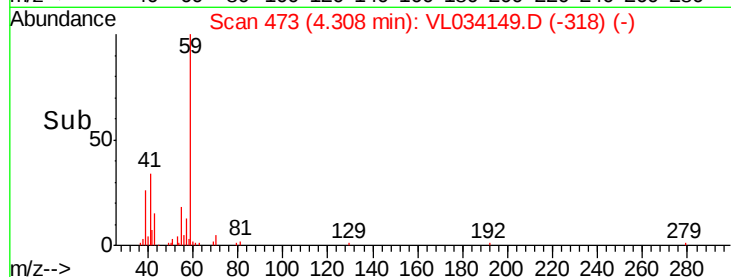
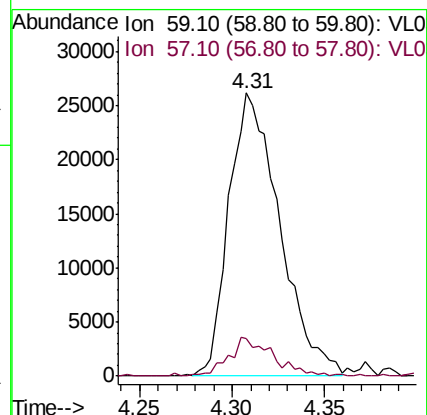
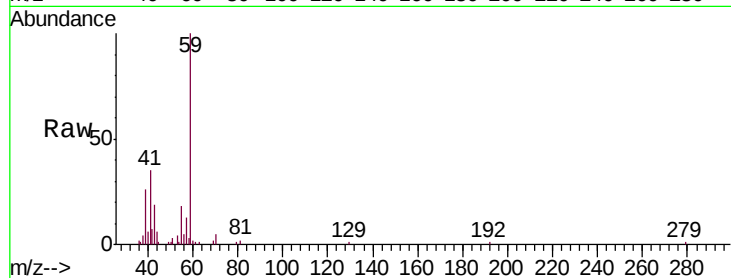




#17
 tert-Butyl alcohol
 Concen: 0.788 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. -0.00 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

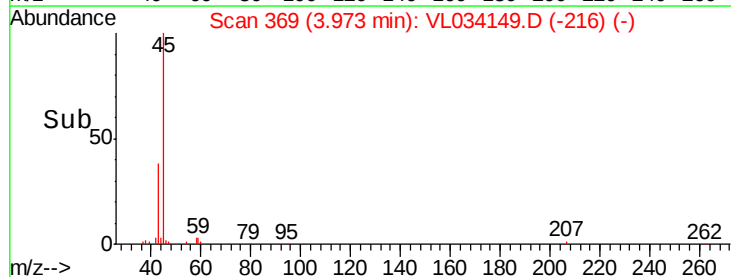
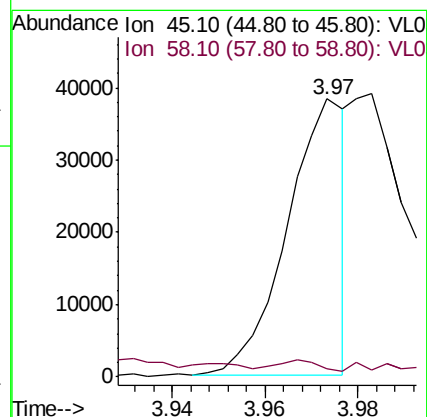
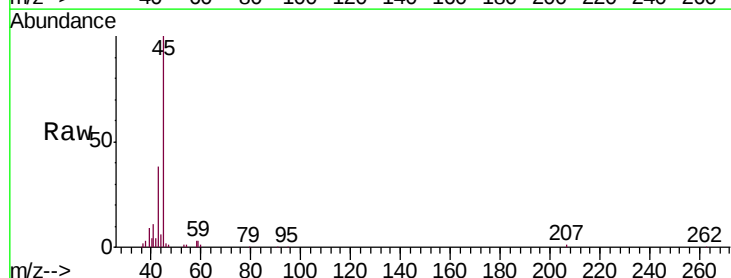
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

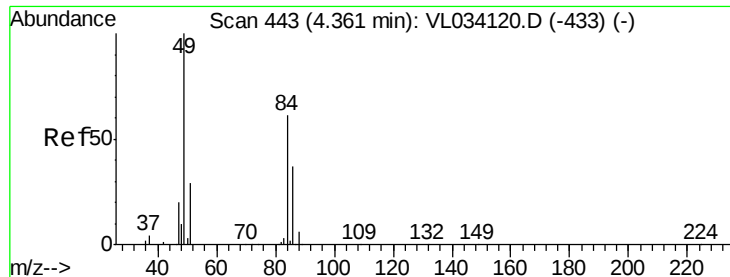
Tgt Ion: 59 Resp: 49817
 Ion Ratio Lower Upper
 59 100
 57 12.1 8.6 12.8



#19
 Isopropyl Alcohol
 Concen: 0.569 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Tgt Ion: 45 Resp: 33406
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.0 1.6#

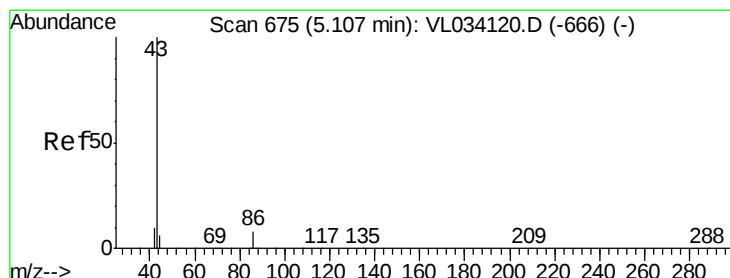
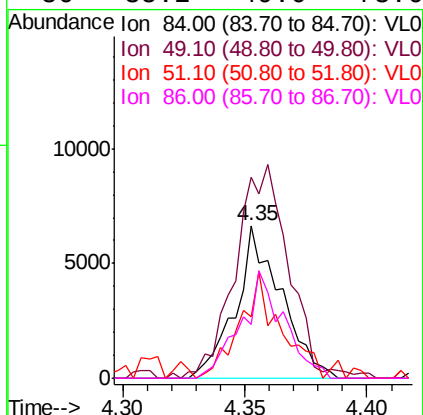
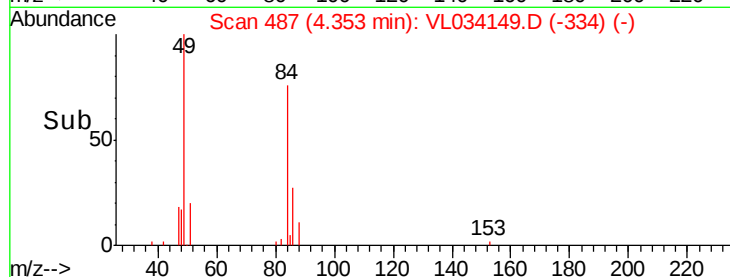
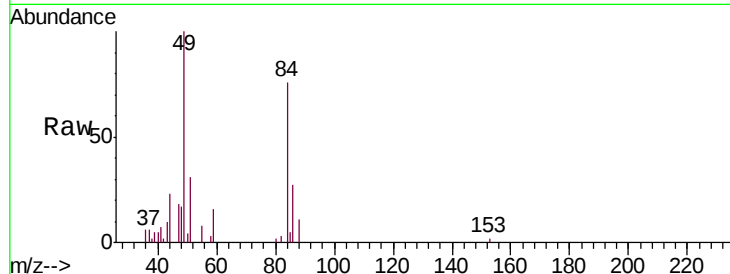




#20
Methylene Chloride
Concen: 0.298 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

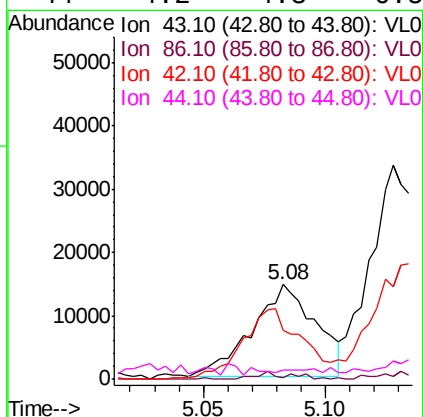
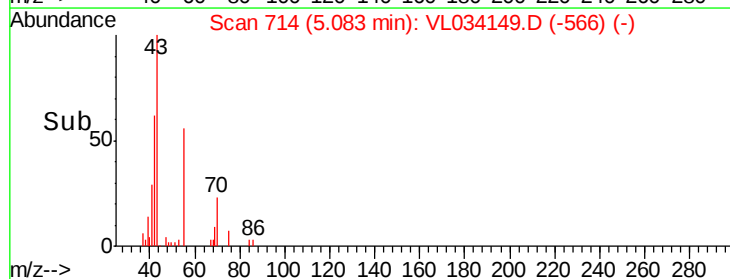
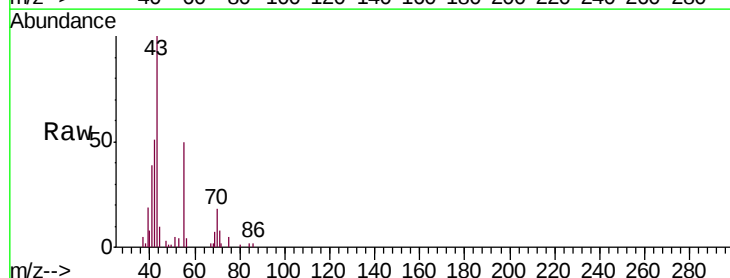
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

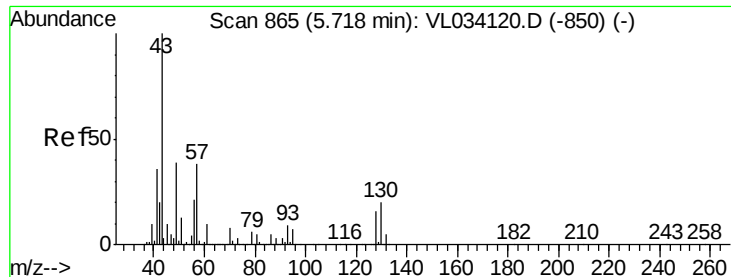
Tgt Ion: 84 Resp: 8575
Ion Ratio Lower Upper
84 100
49 127.3 131.0 196.6#
51 34.7 38.1 57.1#
86 35.2 49.0 73.6#



#23
Vinyl Acetate
Concen: 0.177 ppbv
RT: 5.08 min Scan# 714
Delta R.T. -0.02 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 43 Resp: 26111
Ion Ratio Lower Upper
43 100
86 2.1 5.5 8.3#
42 47.7 8.2 12.4#
44 4.2 4.3 6.5#

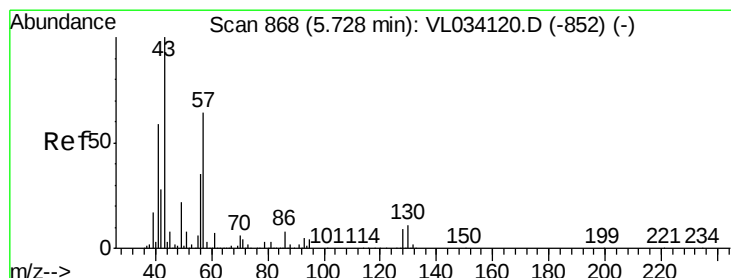
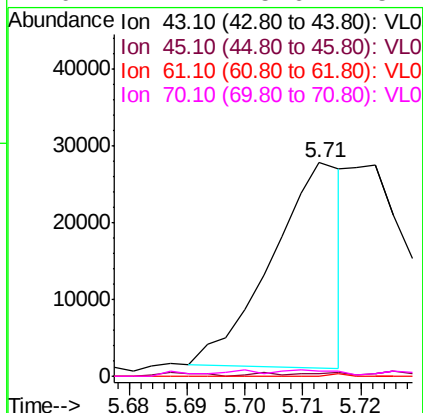
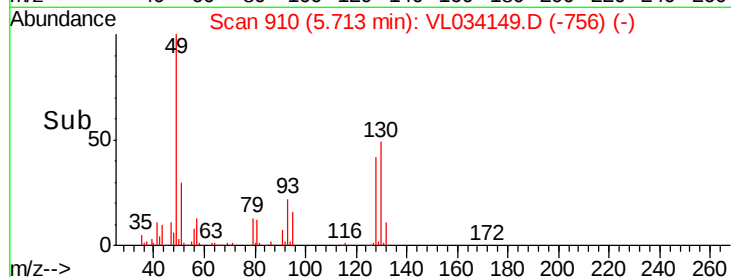
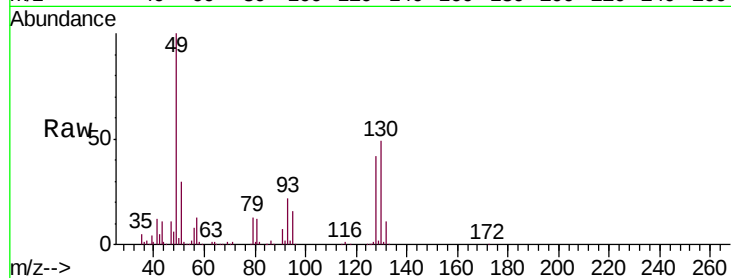




#25
Ethyl Acetate
Concen: 0.119 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

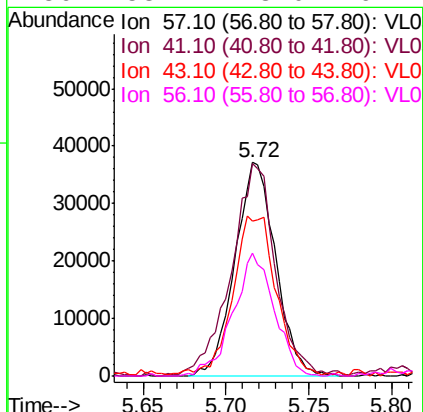
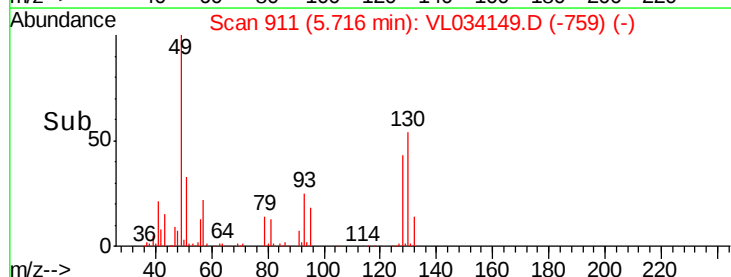
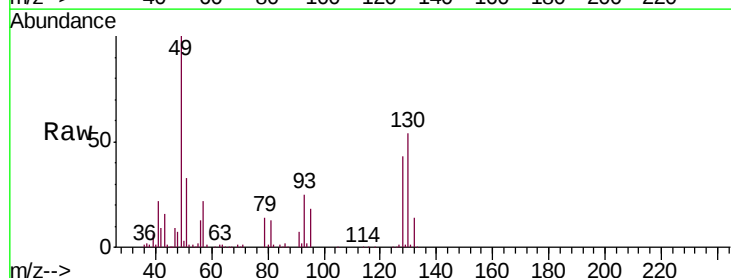
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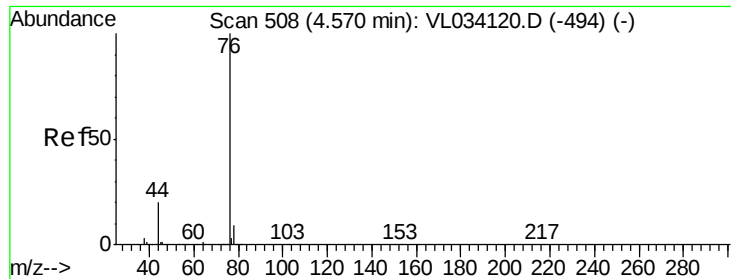
Tgt Ion:	43	Resp:	22701
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.2	12.4#
61	0.3	7.4	11.2#
70	7.1	5.6	8.4



#26
Hexane
Concen: 0.746 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion:	57	Resp:	63403
Ion	Ratio	Lower	Upper
57	100		
41	109.2	76.6	115.0
43	79.7	189.2	283.8#
56	58.2	43.0	64.4





#27

Carbon Disulfide

Concen: 0.134 ppbv

RT: 4.57 min Scan# 554

Delta R.T. -0.00 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

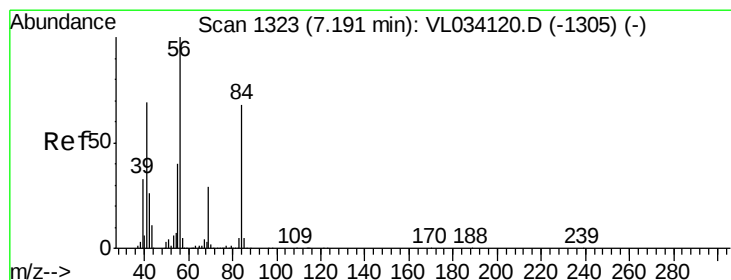
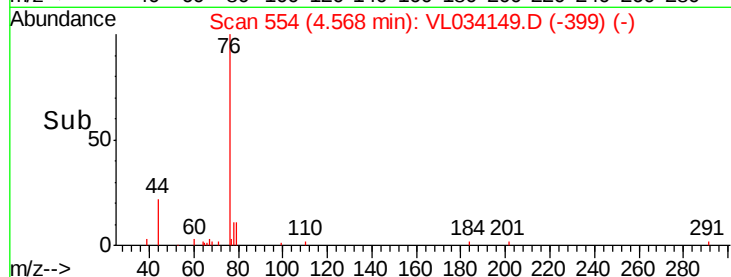
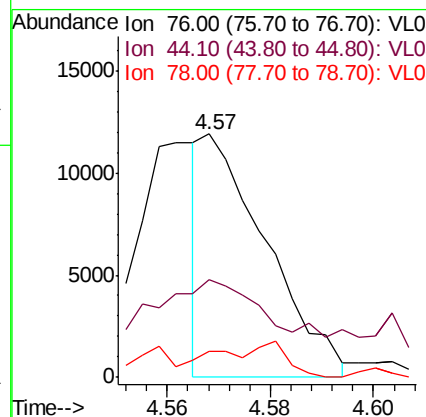
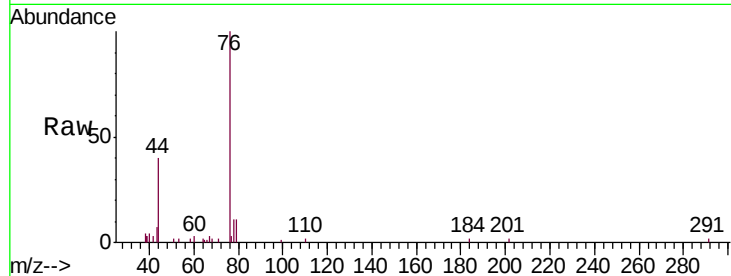
Tgt Ion: 76 Resp: 10262

Ion Ratio Lower Upper

76 100

44 73.9 17.6 26.4#

78 29.1 7.3 10.9#



#30

Cyclohexane

Concen: 0.250 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

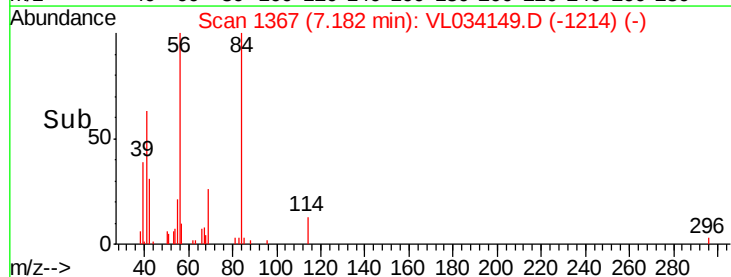
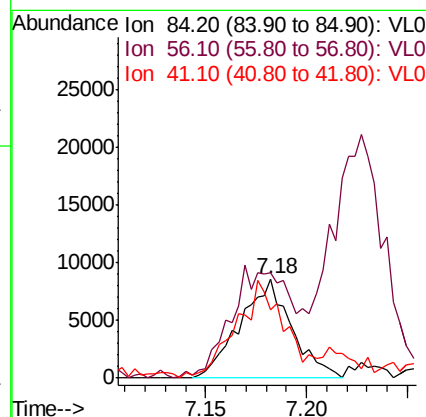
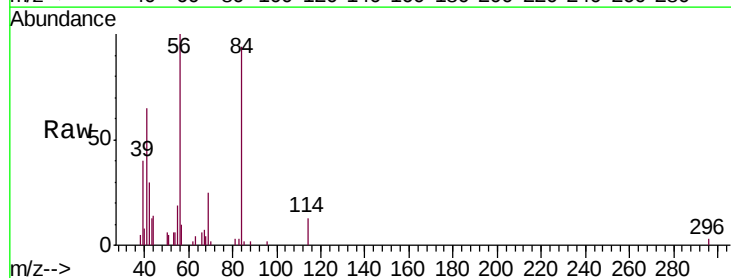
Tgt Ion: 84 Resp: 15371

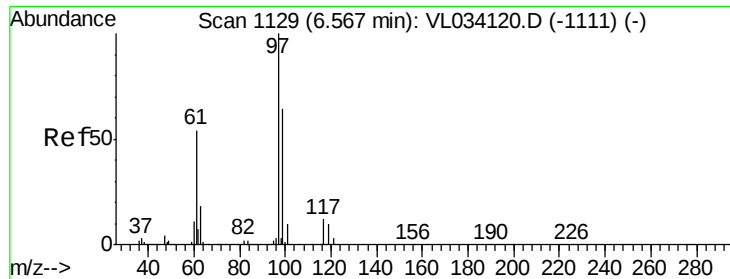
Ion Ratio Lower Upper

84 100

56 132.8 122.6 183.8

41 119.9 79.1 118.7#





#32

1,1,1-Trichloroethane

Concen: 1.008 ppbv

RT: 6.56 min Scan# 1172

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

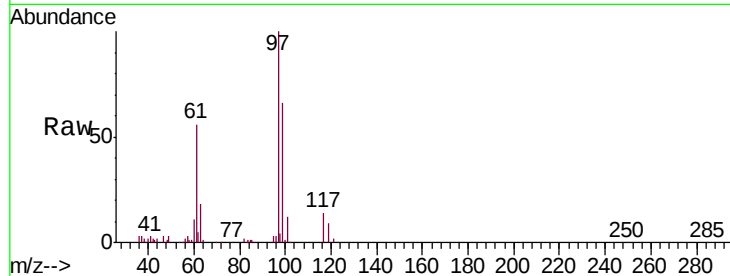
Tgt Ion: 97 Resp: 109062

Ion Ratio Lower Upper

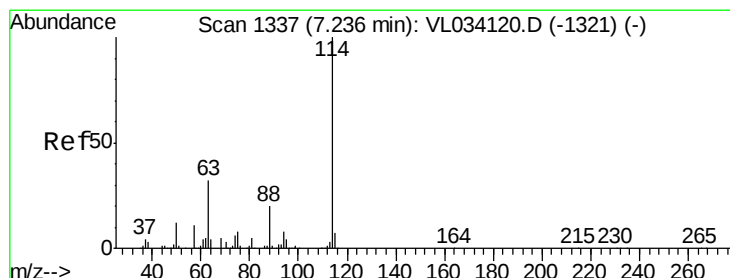
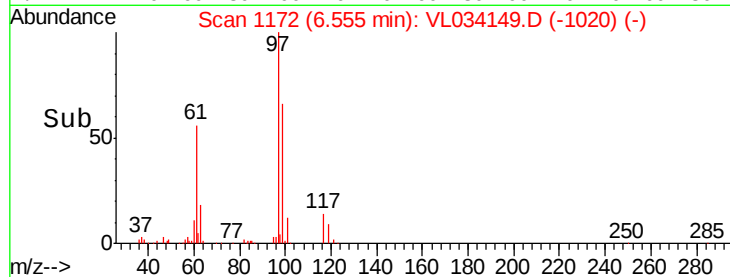
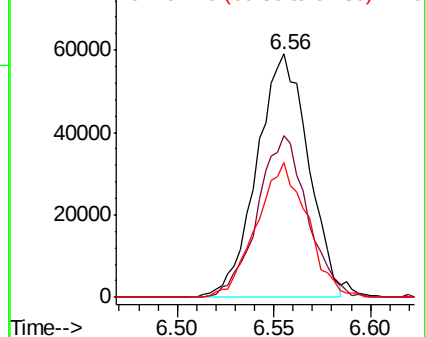
97 100

99 64.5 51.7 77.5

61 54.8 44.0 66.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

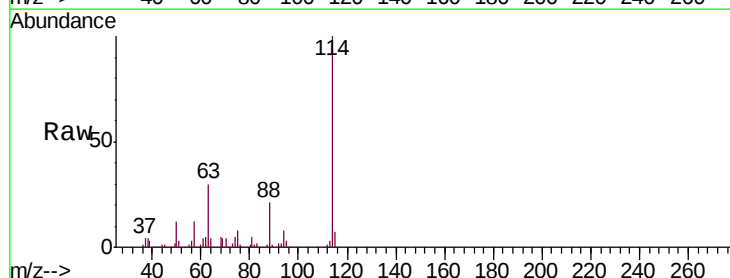
Tgt Ion: 114 Resp: 1435832

Ion Ratio Lower Upper

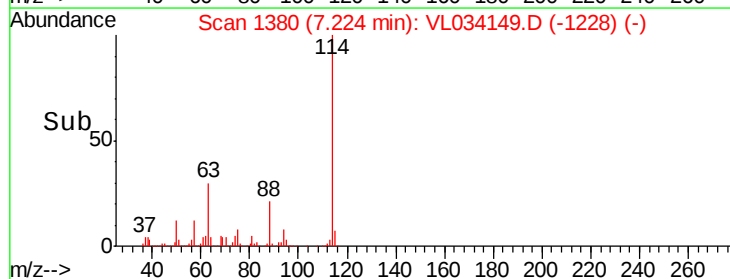
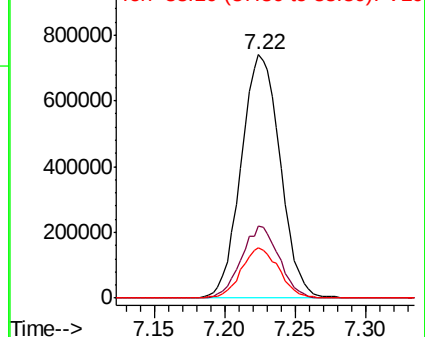
114 100

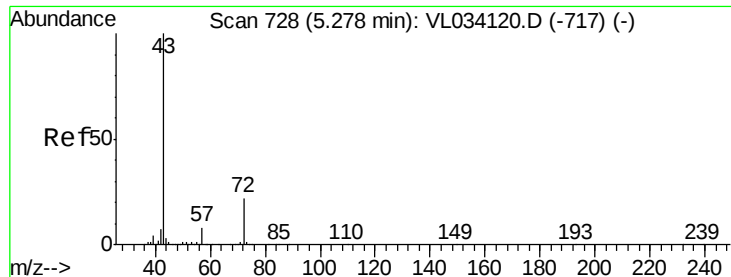
63 28.7 25.5 38.3

88 19.9 16.8 25.2



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

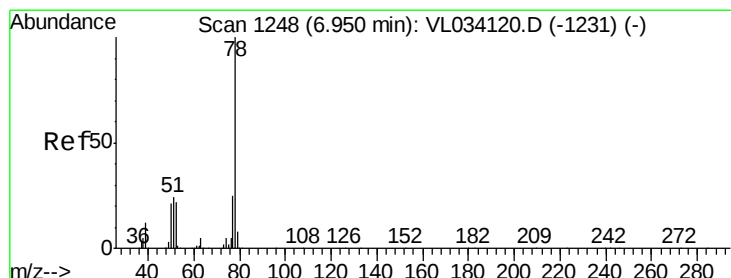
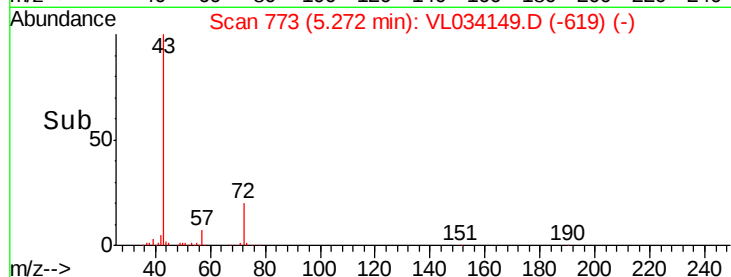
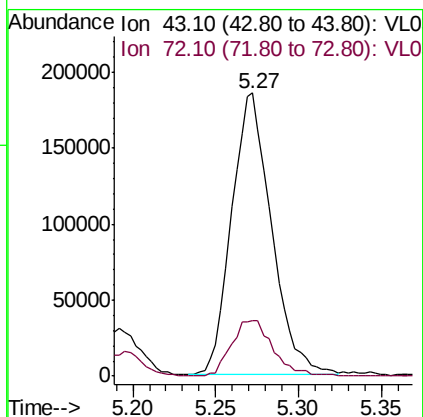
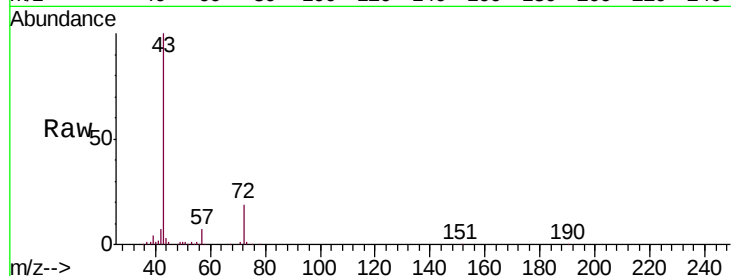




#34
2-Butanone
Concen: 2.250 ppbv
RT: 5.27 min Scan# 773
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

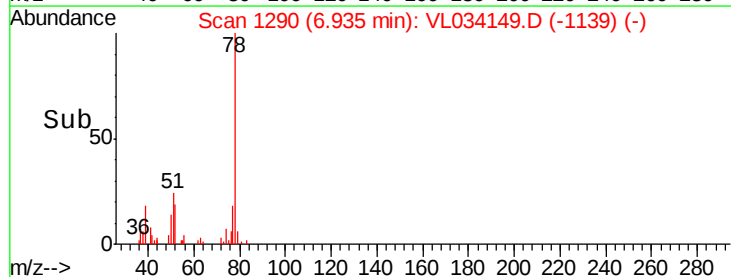
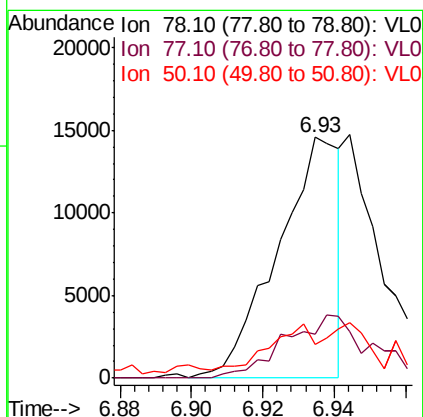
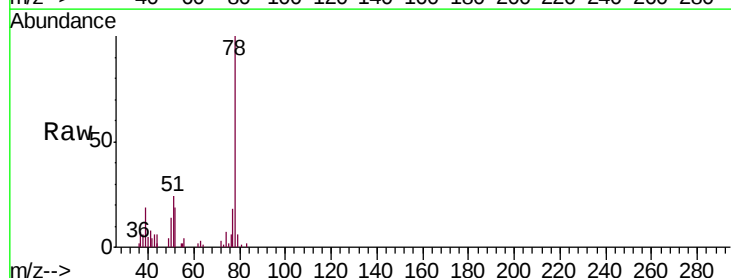
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

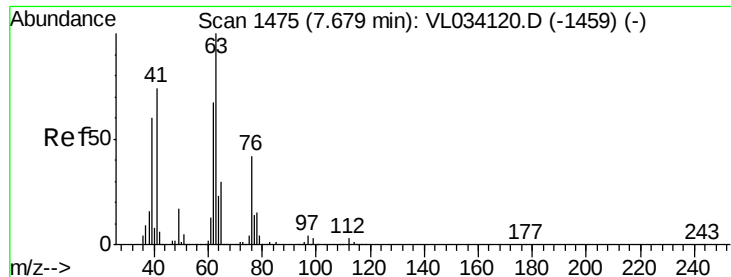
Tgt Ion: 43 Resp: 310638
Ion Ratio Lower Upper
43 100
72 21.0 16.5 24.7



#36
Benzene
Concen: 0.107 ppbv
RT: 6.93 min Scan# 1290
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 78 Resp: 17482
Ion Ratio Lower Upper
78 100
77 18.2 20.3 30.5#
50 8.7 16.9 25.3#

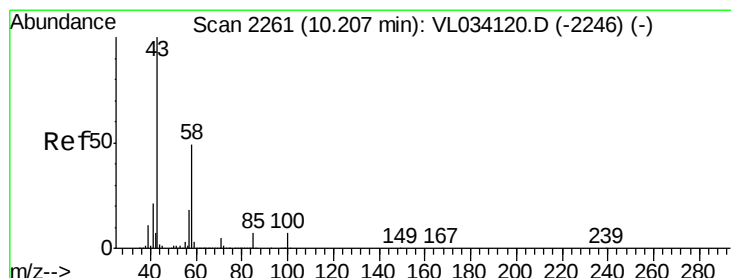
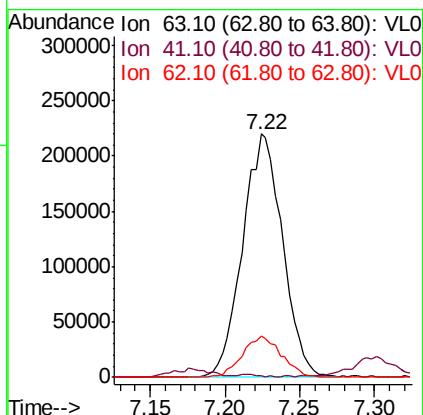
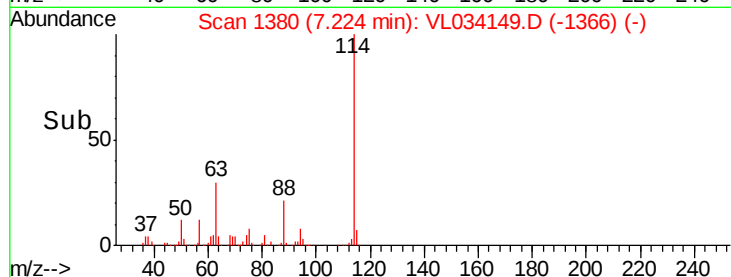
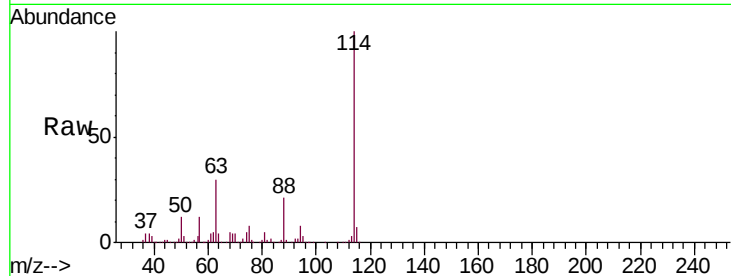




#39
 1,2-Dichloropropane
 Concen: 5.839 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.46 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

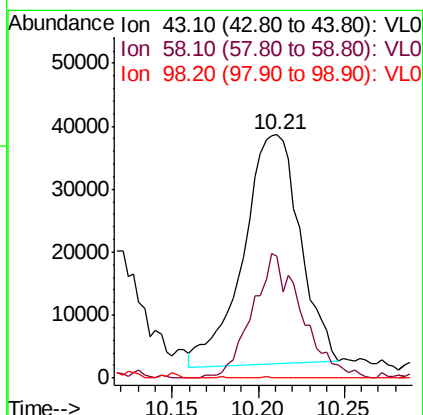
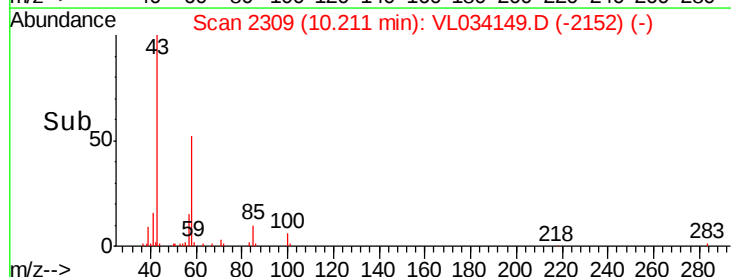
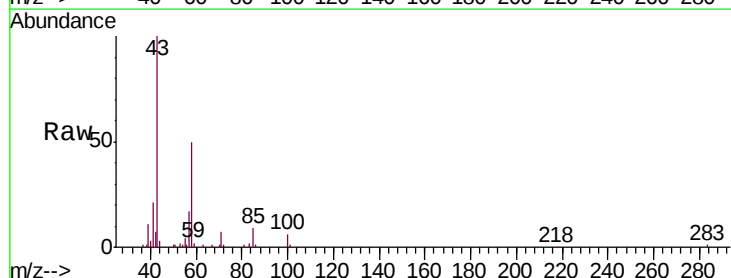
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

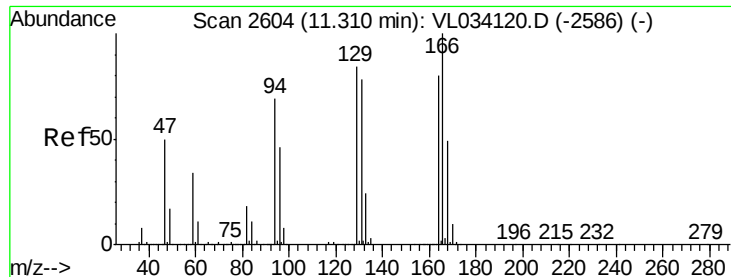
Tgt Ion: 63 Resp: 410105
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.3 88.9#
 62 17.1 53.8 80.6#



#51
 2-Hexanone
 Concen: 0.459 ppbv
 RT: 10.21 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Tgt Ion: 43 Resp: 83595
 Ion Ratio Lower Upper
 43 100
 58 47.5 38.2 57.2
 98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 6.561 ppbv

RT: 11.30 min Scan# 2648

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion:164 Resp: 379677

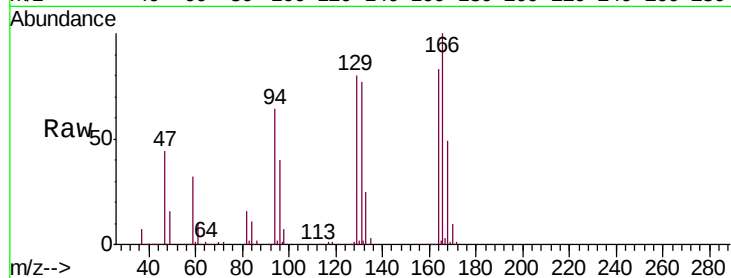
Ion Ratio Lower Upper

164 100

166 121.3 99.5 149.3

129 96.4 83.6 125.4

131 93.5 77.9 116.9

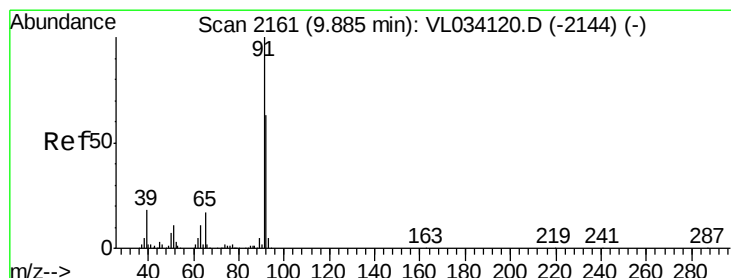
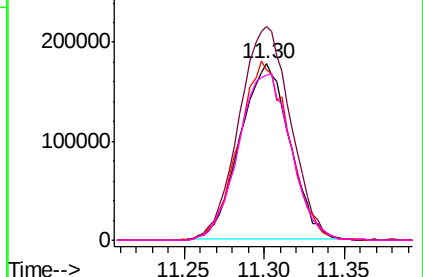
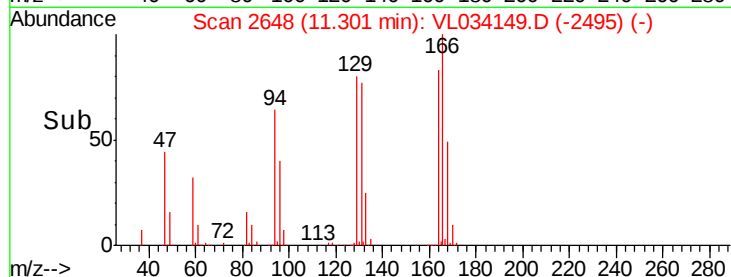


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.497 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034149.D

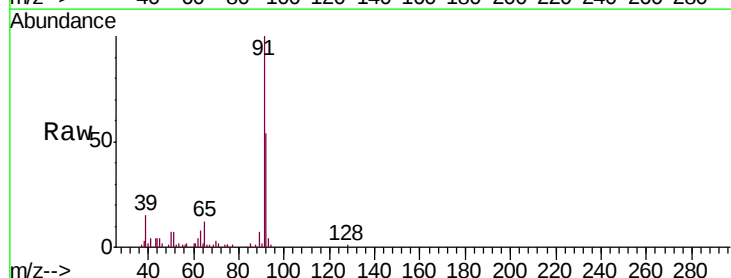
Acq: 10 Sep 2019 19:10

Tgt Ion: 91 Resp: 90168

Ion Ratio Lower Upper

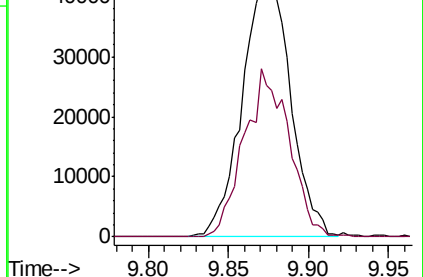
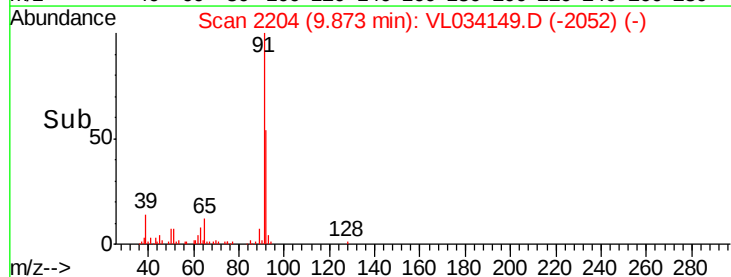
91 100

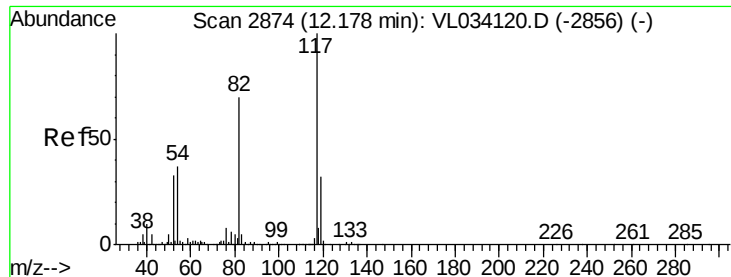
92 60.0 49.3 73.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

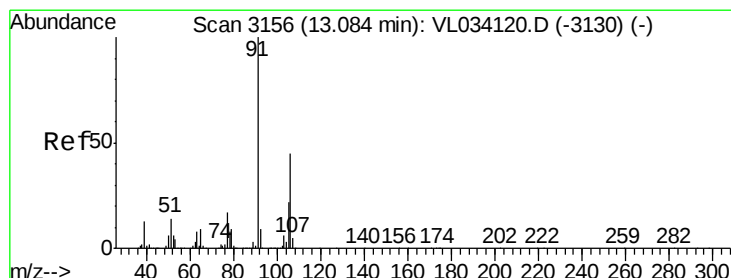
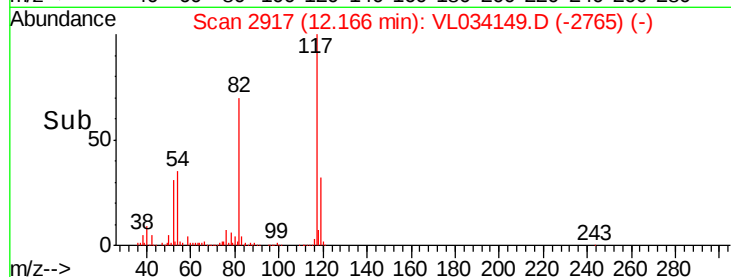
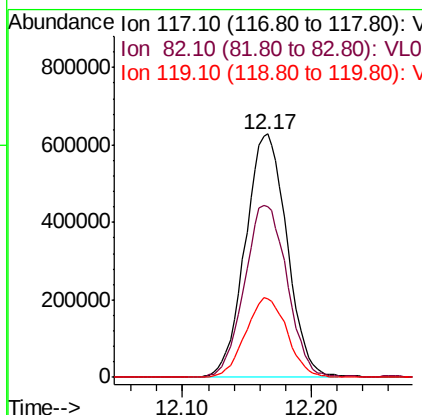
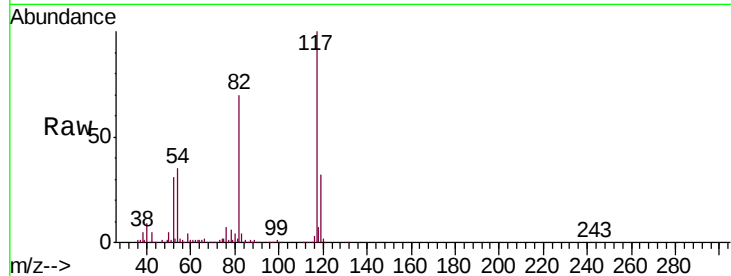




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

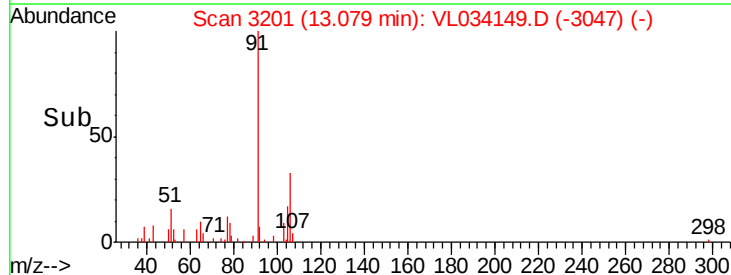
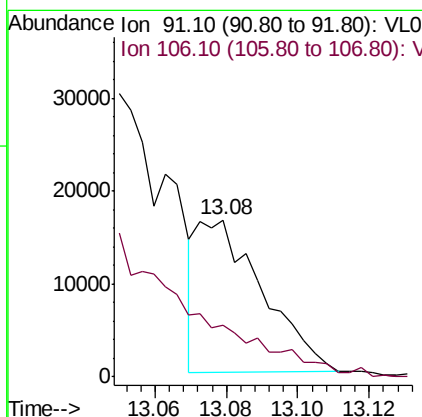
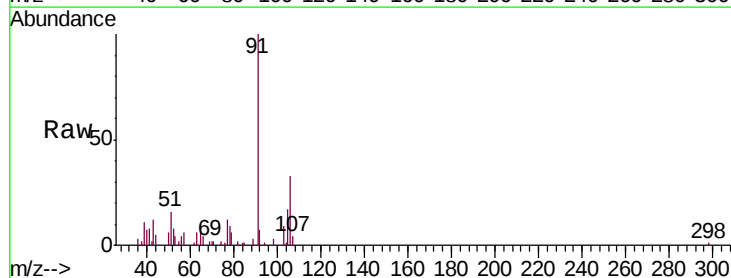
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

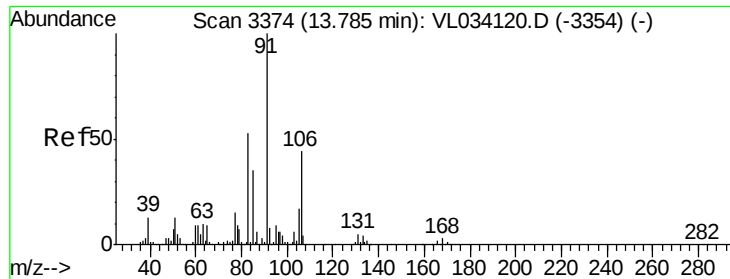
Tgt Ion: 117 Resp: 1409013
Ion Ratio Lower Upper
117 100
82 72.7 55.8 83.6
119 32.8 43.1 64.7#



#59
m/p-Xylene
Concen: 0.110 ppbv
RT: 13.08 min Scan# 3201
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 91 Resp: 20707
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

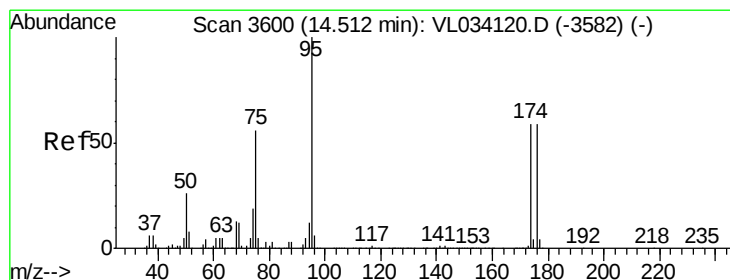
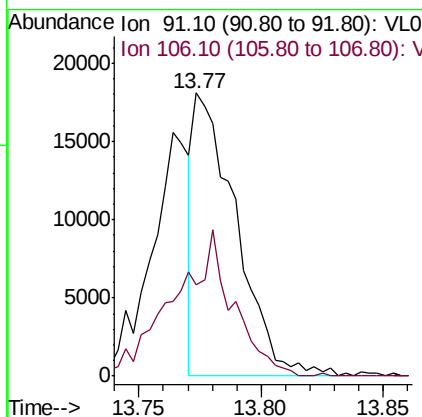
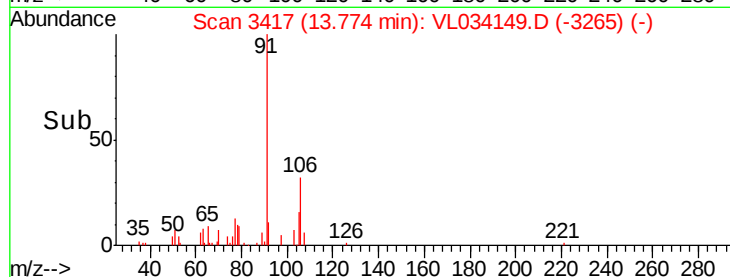
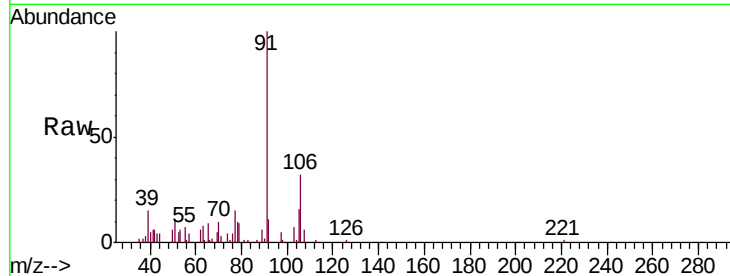




#60
o-Xylene
Concen: 0.116 ppbv
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

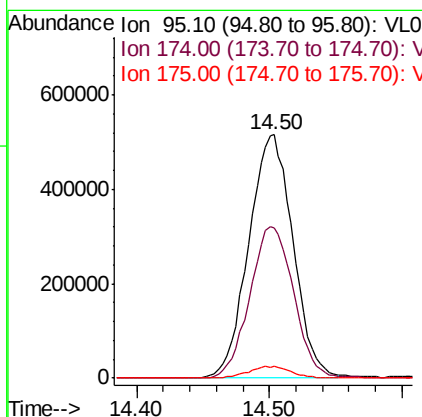
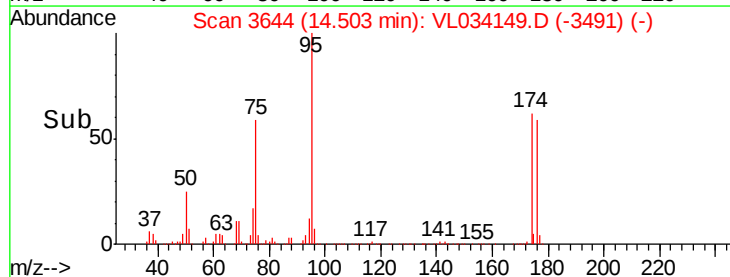
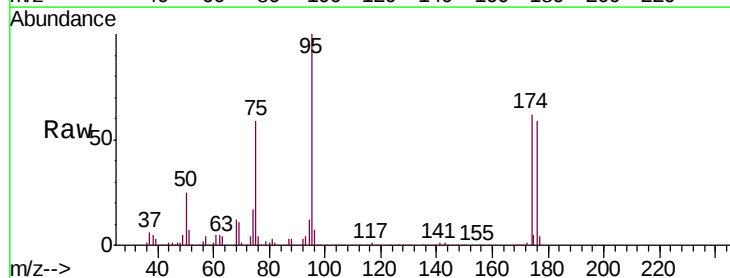
Instrument :
MSVOA_L
ClientSampled :
SV3DL

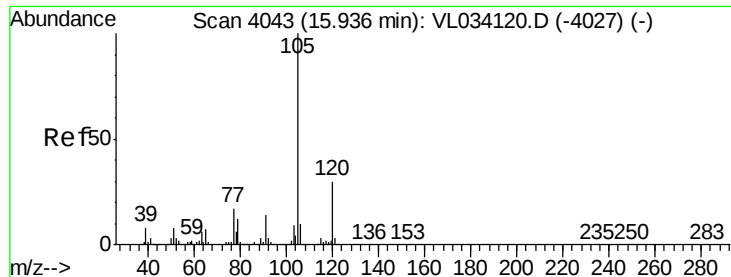
Tgt Ion: 91 Resp: 21782
Ion Ratio Lower Upper
91 100
106 73.0 21.4 64.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.359 ppbv
RT: 14.50 min Scan# 3644
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 95 Resp: 1193271
Ion Ratio Lower Upper
95 100
174 62.4 48.1 72.1
175 4.7 3.5 5.3





#72

4-Ethyltoluene

Concen: 0.056 ppbv

RT: 15.93 min Scan# 4087

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

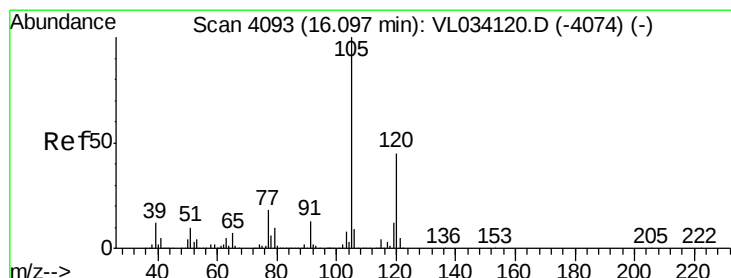
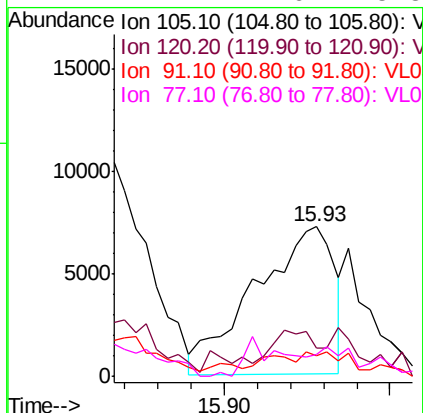
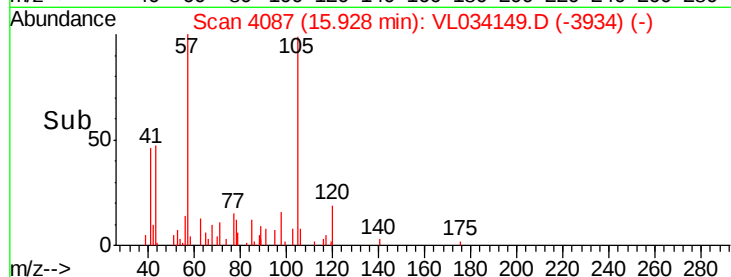
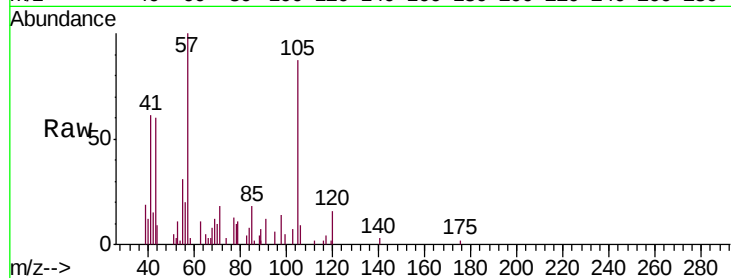
Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion:	105	Resp:	11880
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.8	35.6#
91	0.0	11.4	17.0#
77	27.7	12.6	18.8#



#73

1,3,5-Trimethylbenzene

Concen: 0.033 ppbv

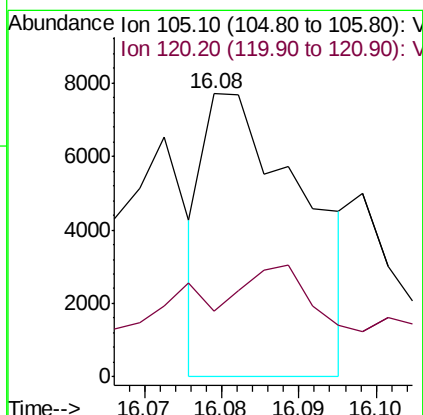
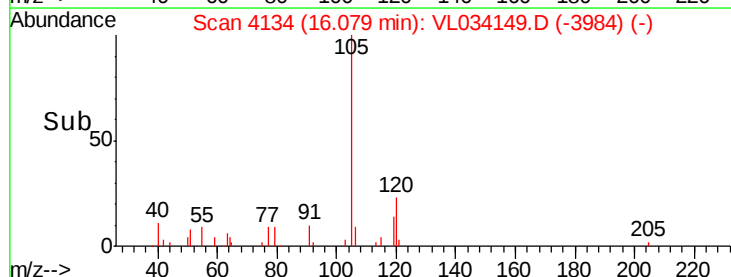
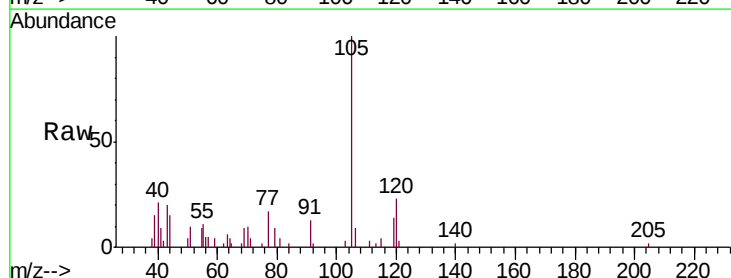
RT: 16.08 min Scan# 4134

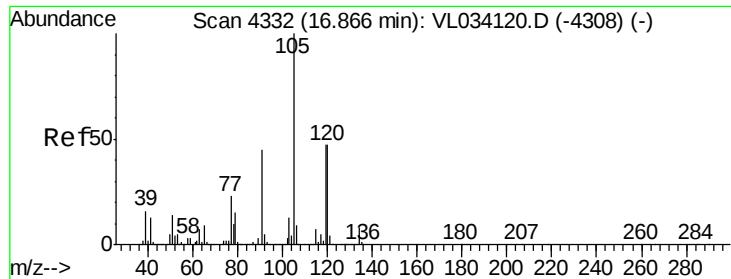
Delta R.T. -0.02 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tgt Ion:	105	Resp:	6892
Ion Ratio	Lower	Upper	
105	100		
120	17.4	35.8	53.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.087 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Tgt Ion:	105	Resp:	18378
Ion	Ratio	Lower	Upper
105	100		
120	35.7	37.7	56.5#
91	13.3	36.2	54.2#
77	12.6	18.5	27.7#

