

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034987.D
 Acq On : 12 May 2020 15:03
 Operator : SY/AP
 Sample : L2567-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Quant Time: May 13 01:06:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1022033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2389257	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.11	117	2246055	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1888354	10.39	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	41870	0.289	ppbv 94
3) Chlorodifluoromethane	2.94	51	37442	0.321	ppbv # 91
4) Chloromethane	3.10	50	35636	0.533	ppbv # 84
9) Propene	3.16	41	106194	2.097	ppbv 91
10) Heptane	8.12	43	67782	0.534	ppbv # 26
11) Trichlorofluoromethane	3.92	101	40054	0.268	ppbv # 81
12) 1,1,2-Trichlorotrifluoroet	4.46	101	4262	0.040	ppbv # 14
13) Ethanol	3.57	45	298077	17.840	ppbv 97
15) Acetone	3.81	43	1346850	9.968	ppbv # 89
16) 1,3-Butadiene	3.26	39	26014	0.447	ppbv # 51
17) tert-Butyl alcohol	4.28	59	178891	1.488	ppbv # 71
19) Isopropyl Alcohol	3.94	45	398886	4.427	ppbv # 96
20) Methylene Chloride	4.31	84	186822	4.177	ppbv 88
21) Allyl Chloride	4.34	41	14412	0.189	ppbv # 25
23) Vinyl Acetate	5.04	43	13208	0.077	ppbv # 1
25) Ethyl Acetate	5.67	43	400085	1.763	ppbv # 91
26) Hexane	5.67	57	350429	3.561	ppbv # 58
30) Cyclohexane	7.13	84	32352	0.426	ppbv # 90
31) cis-1,2-Dichloroethene	5.53	61	4759	0.050	ppbv # 70
34) 2-Butanone	5.23	43	53865	0.363	ppbv 100
35) Carbon Tetrachloride	7.02	117	7756	0.051	ppbv # 75
36) Benzene	6.89	78	54600	0.277	ppbv 97
37) 1,2-Dichloroethane	6.30	62	2575	0.021	ppbv # 84
38) Trichloroethene	7.84	130	171049	2.241	ppbv 92
39) 1,2-Dichloropropane	7.18	63	644709	8.164	ppbv # 25
41) Tetrahydrofuran	6.05	42	7669	0.098	ppbv # 12
44) 2,2,4-Trimethylpentane	7.86	57	81429	0.233	ppbv # 8
51) 2-Hexanone	10.13	43	8164	0.049	ppbv # 57
52) Tetrachloroethene	11.25	164	1177523	16.811	ppbv 98
53) Toluene	9.82	91	2720503	13.028	ppbv 99
58) Ethyl Benzene	12.74	91	200639	0.722	ppbv 100
59) m/p-Xylene	13.01	91	213282	0.873	ppbv # 8
60) o-Xylene	13.72	91	227762	0.945	ppbv 100
61) Styrene	13.55	104	39055	0.256	ppbv # 79
64) n-propylbenzene	15.59	120	3747	0.041	ppbv # 1
72) 4-Ethyltoluene	15.87	105	26057	0.097	ppbv # 55
73) 1,3,5-Trimethylbenzene	16.03	105	23902	0.091	ppbv 91
74) 1,2,4-Trimethylbenzene	16.80	105	169049	0.592	ppbv # 73
80) Naphthalene,2-methyl-	25.02	142	7963	0.146	ppbv 87

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

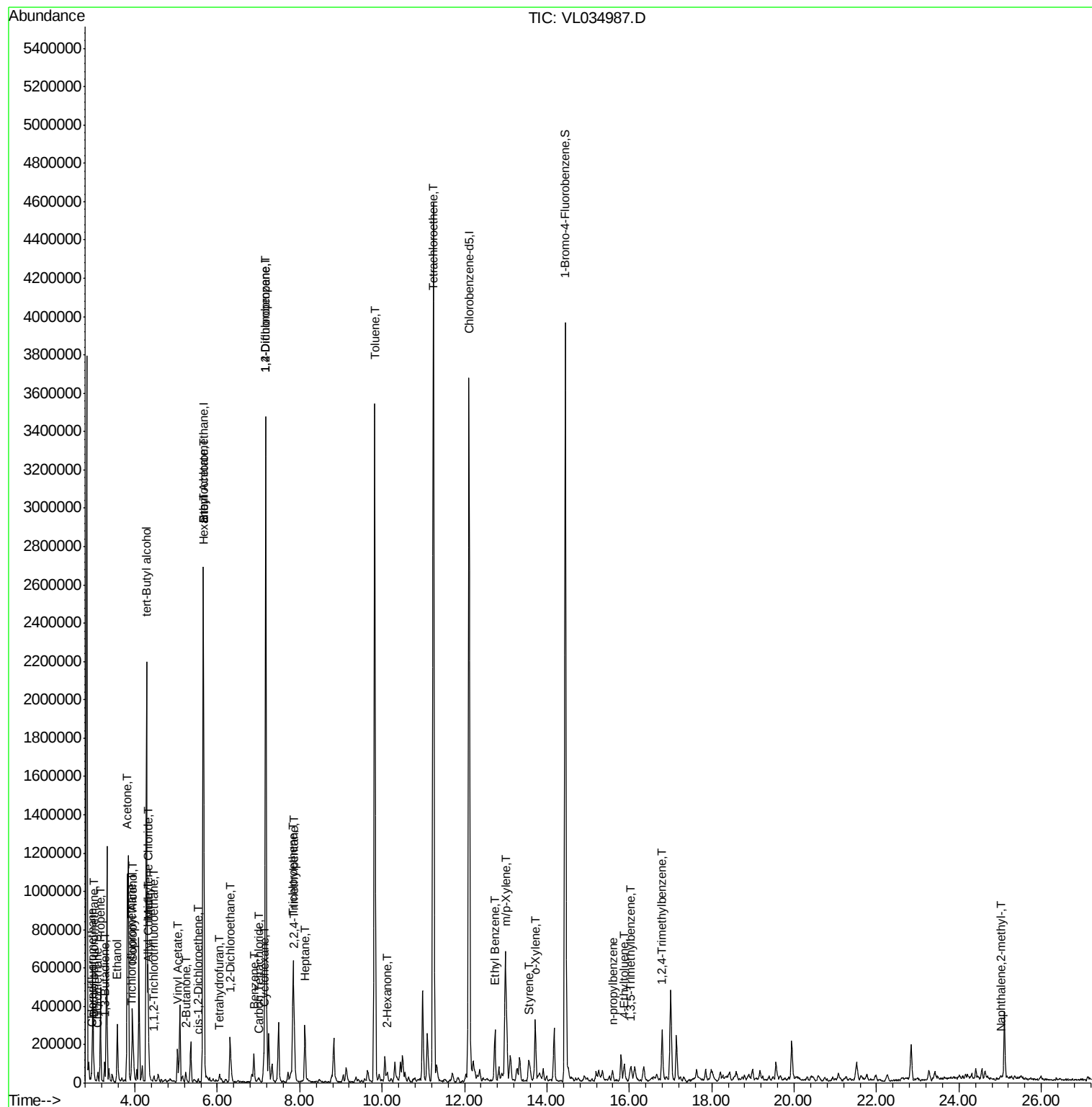
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

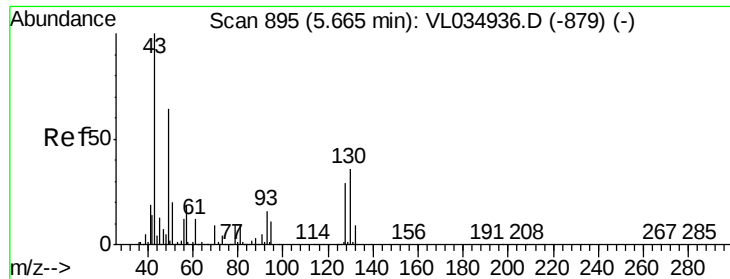
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

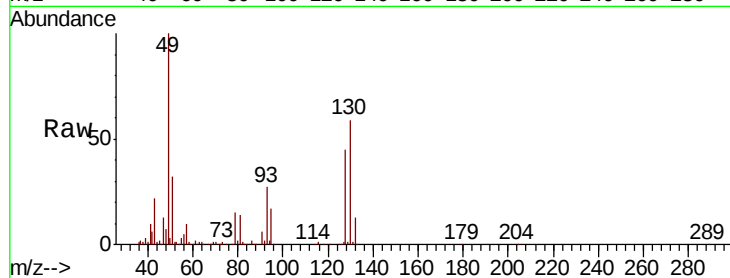
Tot Ion: 49 Resp: 1022033

Ion Ratio Lower Upper

49 100

128 45.5 22.1 66.5

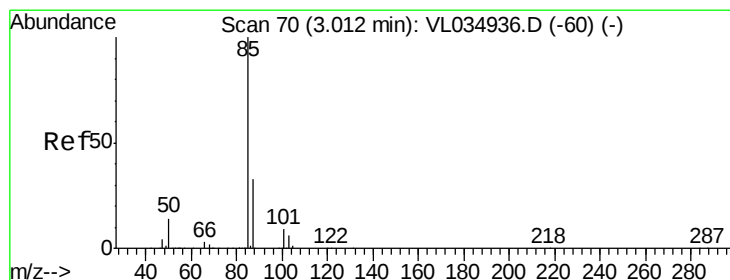
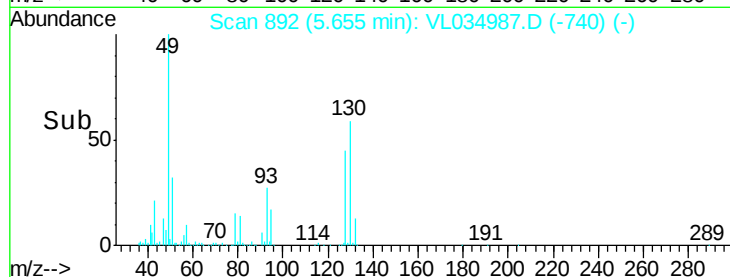
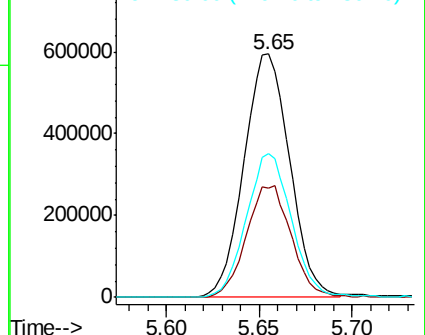
130 58.4 29.1 87.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.289 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL034987.D

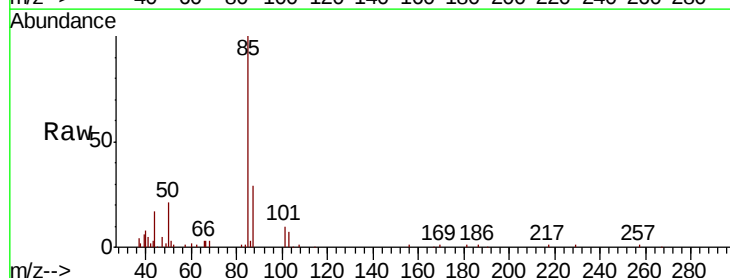
Acq: 12 May 2020 15:03

Tgt Ion: 85 Resp: 41870

Ion Ratio Lower Upper

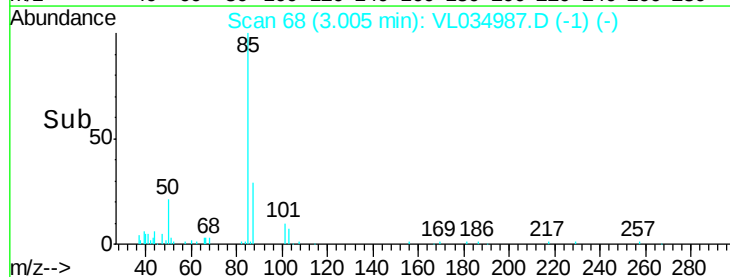
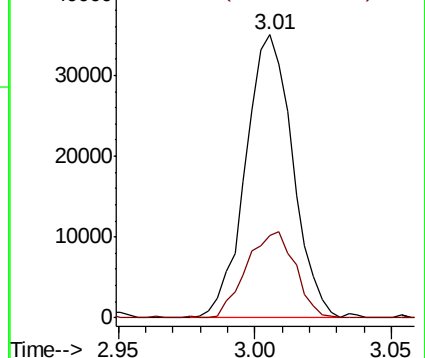
85 100

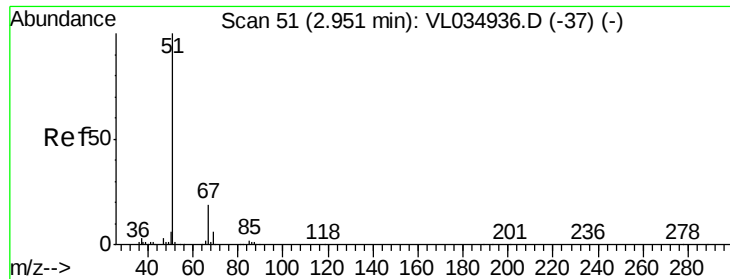
87 29.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

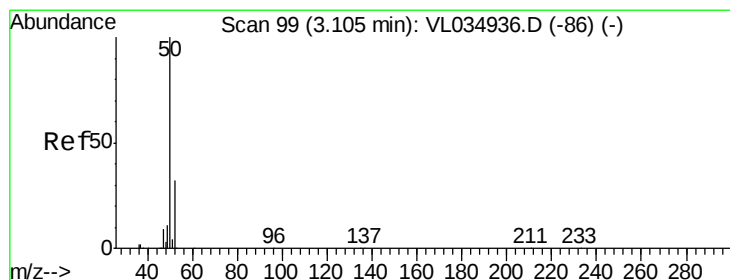
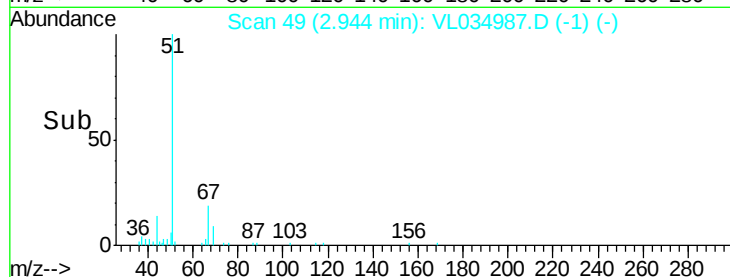
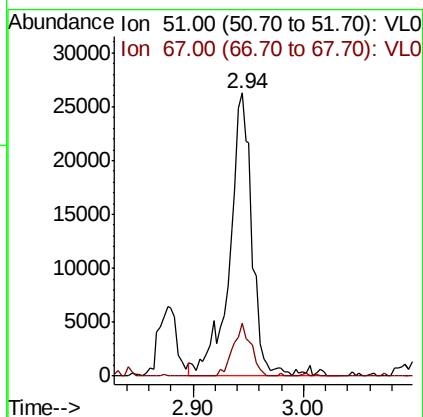
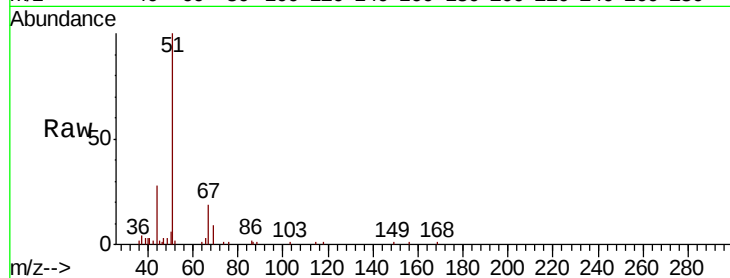




#3
Chlorodifluoromethane
Concen: 0.321 ppbv
RT: 2.94 min Scan# 49
Delta R.T. -0.01 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

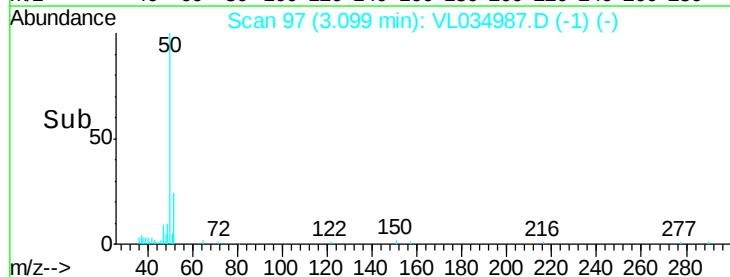
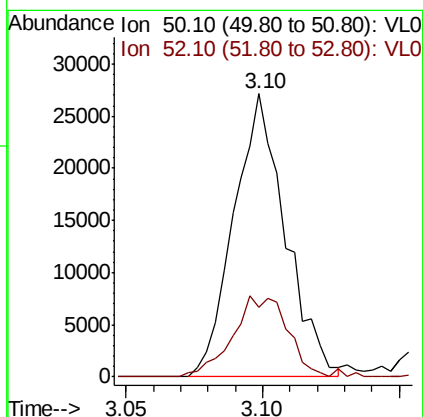
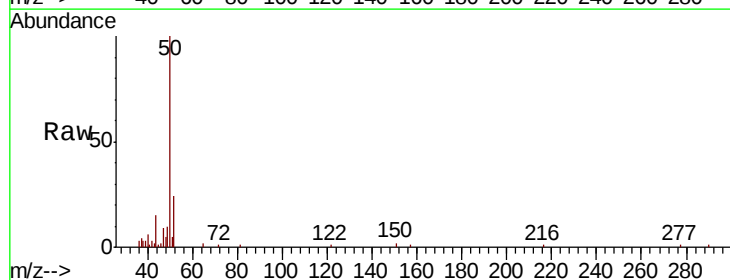
Instrument :
MSVOA_L
ClientSampleId :
IA-4

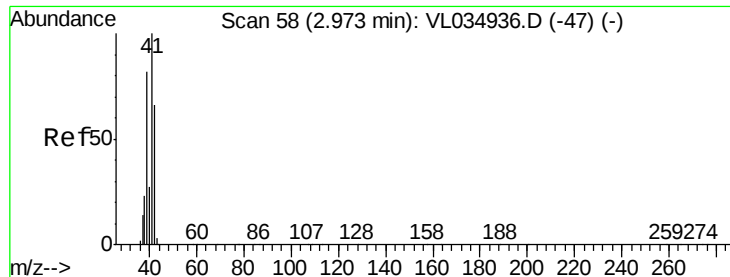
Tot Ion: 51 Resp: 37442
Ion Ratio Lower Upper
51 100
67 14.9 15.0 22.6#



#4
Chloromethane
Concen: 0.533 ppbv
RT: 3.10 min Scan# 97
Delta R.T. -0.01 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

Tgt Ion: 50 Resp: 35636
Ion Ratio Lower Upper
50 100
52 23.0 25.4 38.2#





#9

Propene

Concen: 2.097 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.19 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

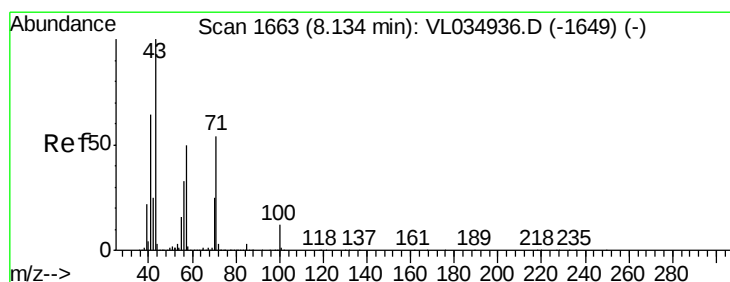
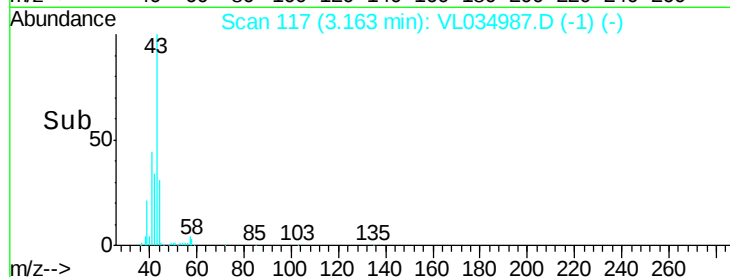
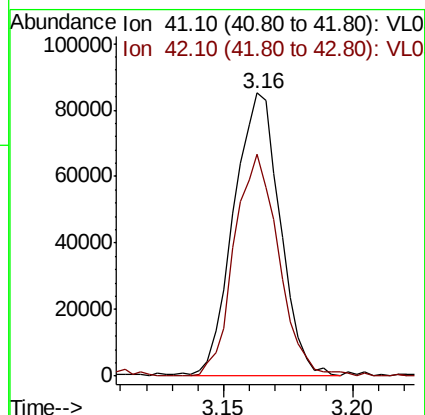
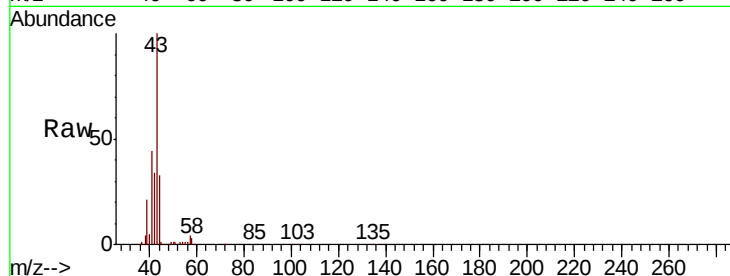
IA-4

Tot Ion: 41 Resp: 106194

Ion Ratio Lower Upper

41 100

42 75.8 54.5 81.7



#10

Heptane

Concen: 0.534 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL034987.D

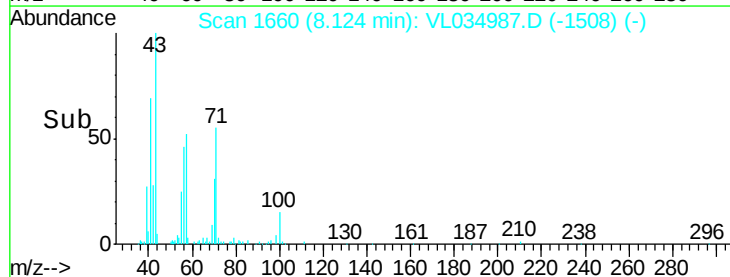
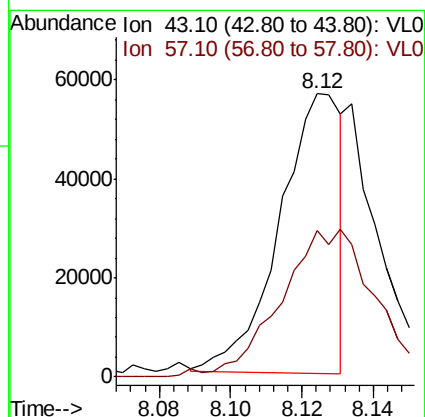
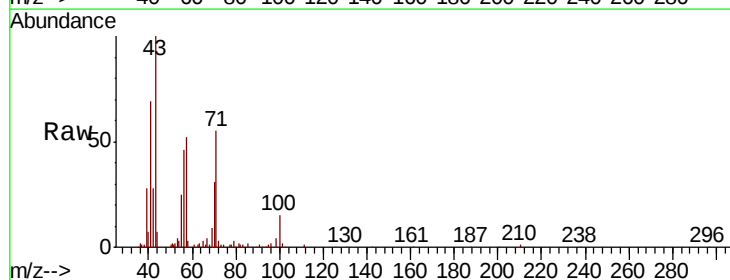
Acq: 12 May 2020 15:03

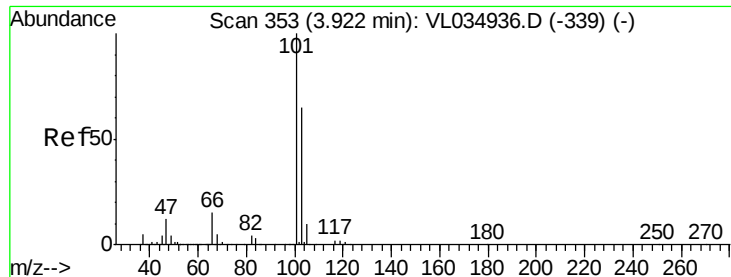
Tgt Ion: 43 Resp: 67782

Ion Ratio Lower Upper

43 100

57 0.0 41.1 61.7#





#11

Trichlorofluoromethane

Concen: 0.268 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

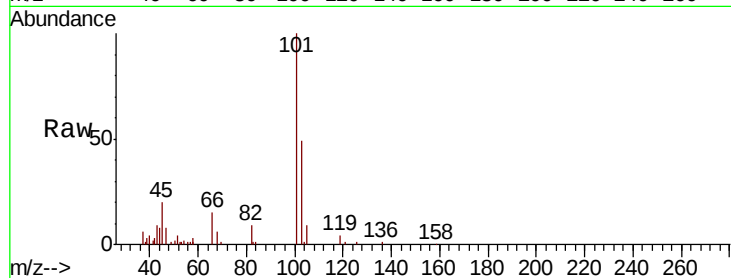
IA-4

Tot Ion:101 Resp: 40054

Ion Ratio Lower Upper

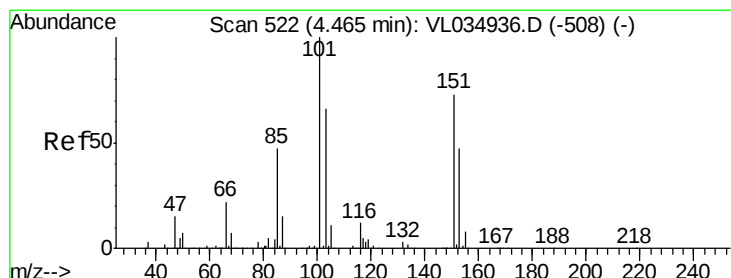
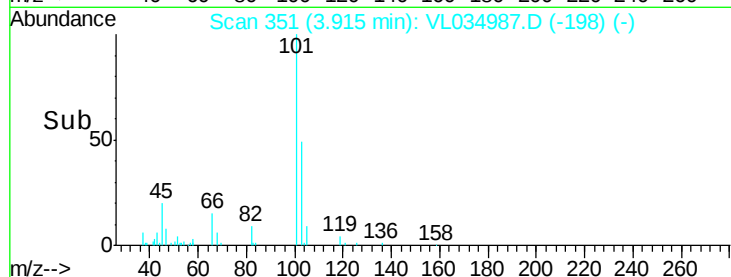
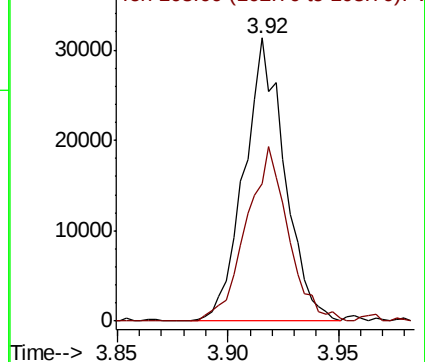
101 100

103 49.9 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034987.D

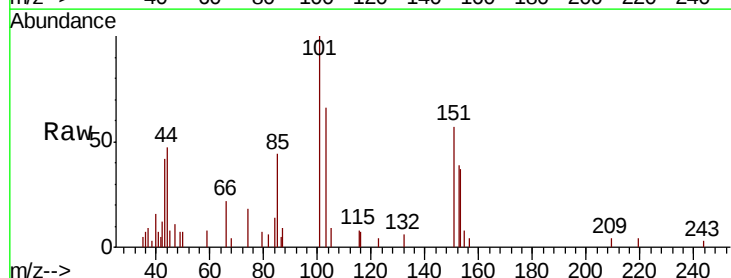
Acq: 12 May 2020 15:03

Tgt Ion:101 Resp: 4262

Ion Ratio Lower Upper

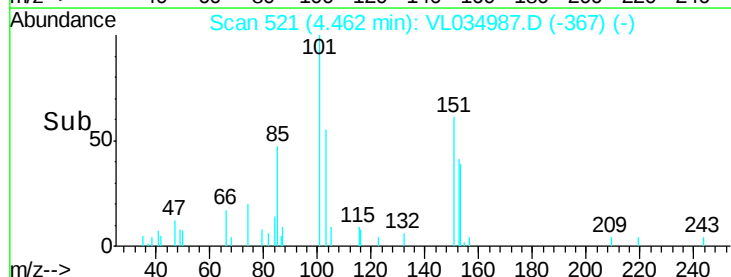
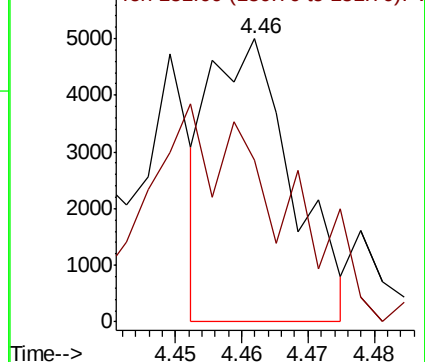
101 100

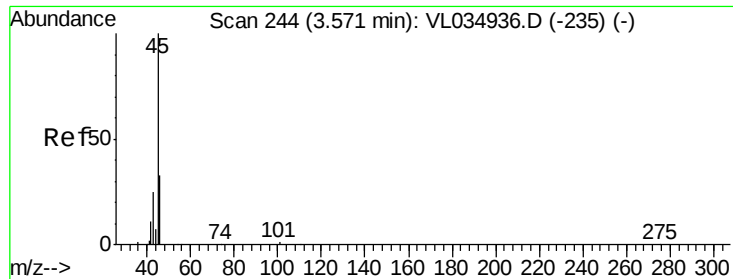
151 0.0 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 17.840 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

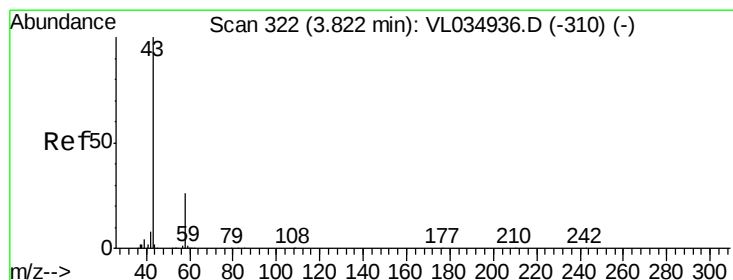
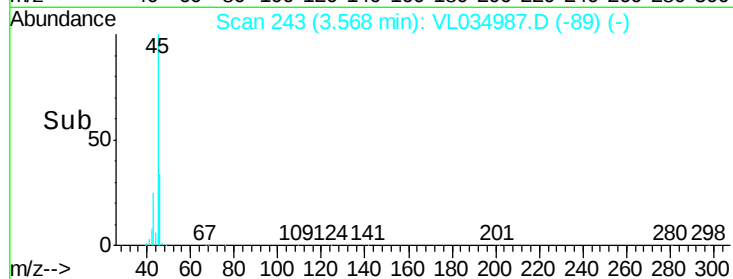
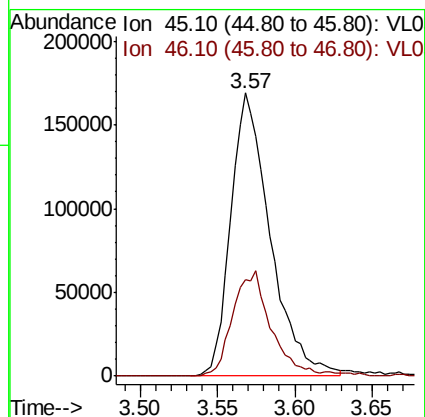
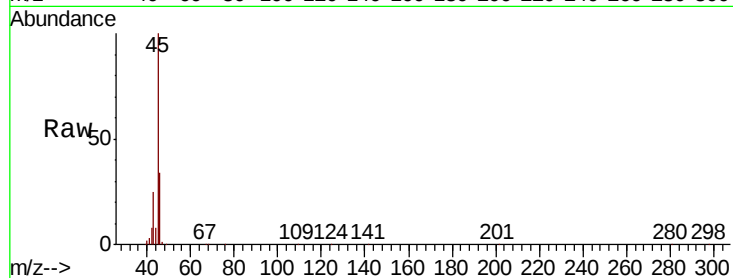
IA-4

Tot Ion: 45 Resp: 298077

Ion Ratio Lower Upper

45 100

46 37.5 14.3 57.3



#15

Acetone

Concen: 9.968 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL034987.D

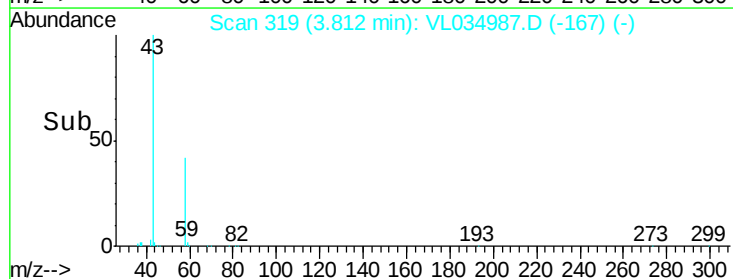
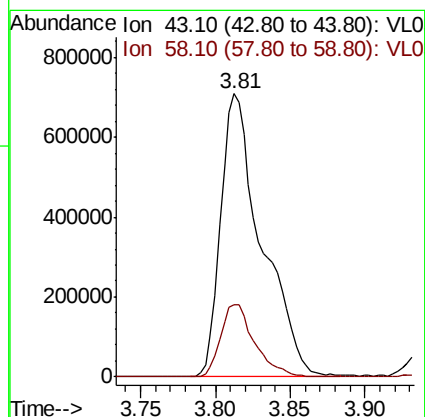
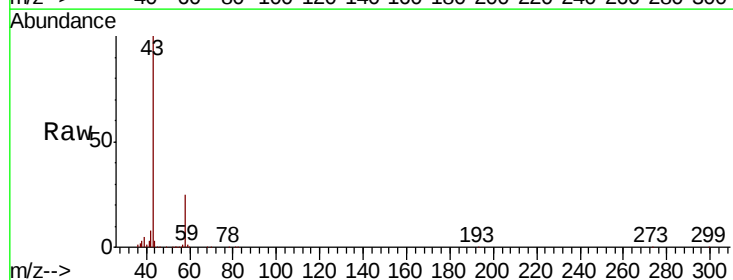
Acq: 12 May 2020 15:03

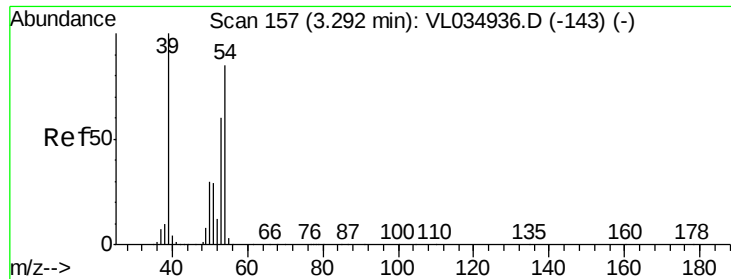
Tgt Ion: 43 Resp: 1346850

Ion Ratio Lower Upper

43 100

58 21.5 21.7 32.5#

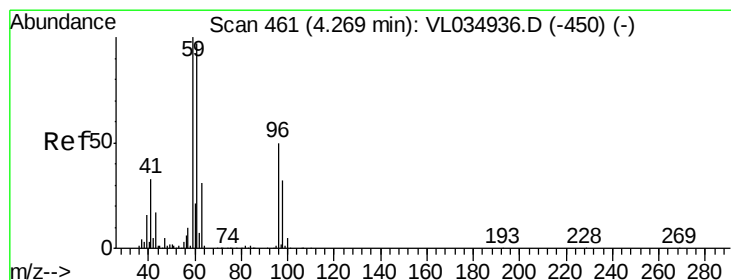
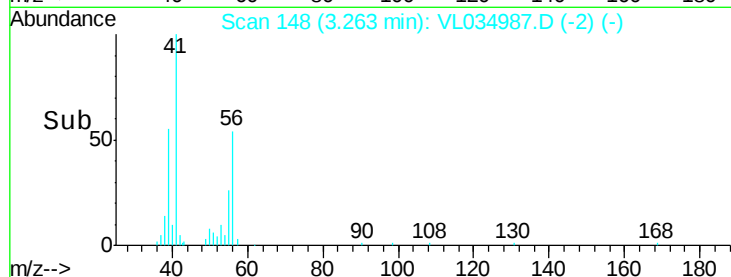
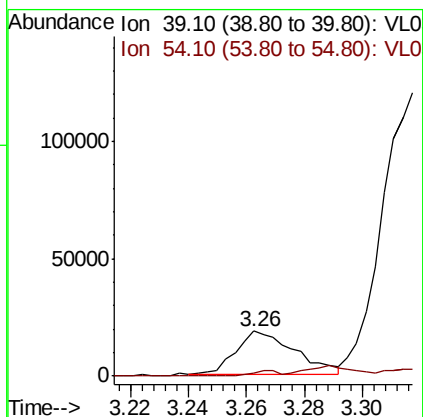
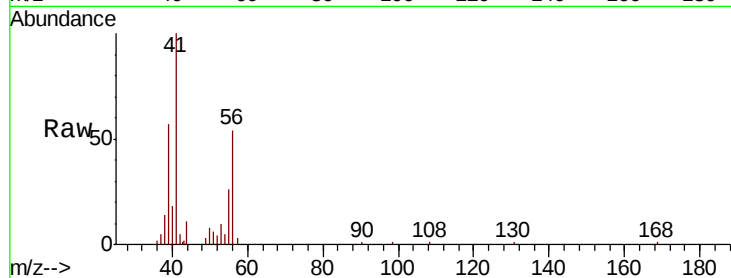




#16
1,3-Butadiene
Concen: 0.447 ppbv
RT: 3.26 min Scan# 148
Delta R.T. -0.03 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

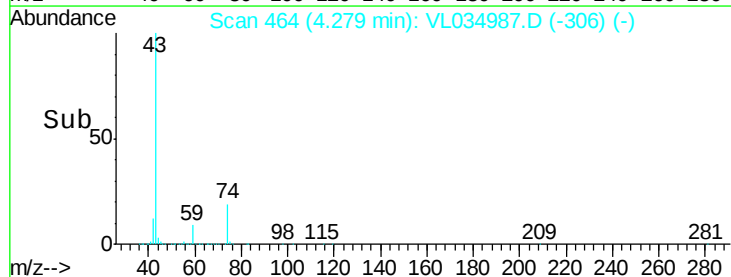
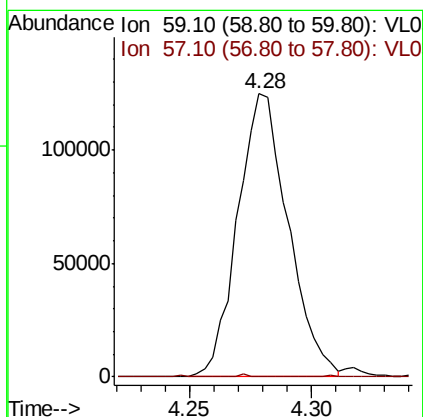
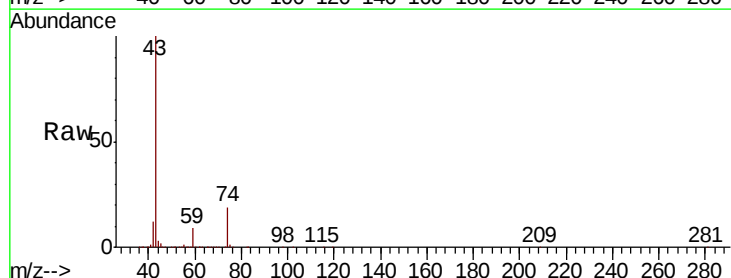
Instrument :
MSVOA_L
ClientSampled :
IA-4

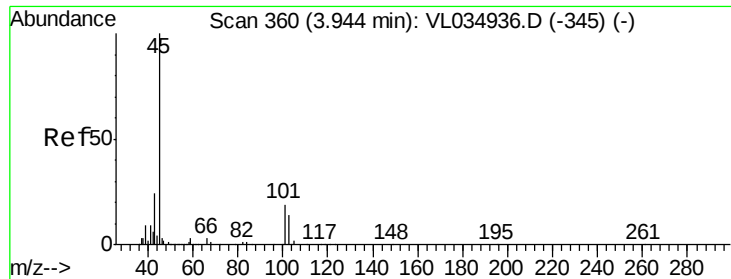
Tot Ion: 39 Resp: 26014
Ion Ratio Lower Upper
39 100
54 39.4 66.6 100.0#



#17
tert-Butyl alcohol
Concen: 1.488 ppbv
RT: 4.28 min Scan# 464
Delta R.T. 0.01 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

Tgt Ion: 59 Resp: 178891
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 4.427 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

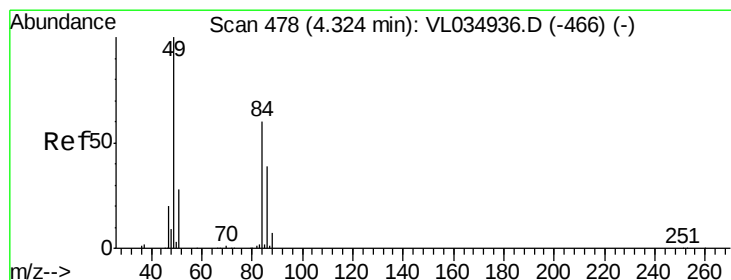
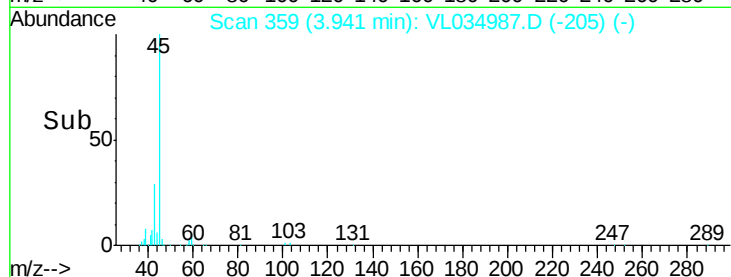
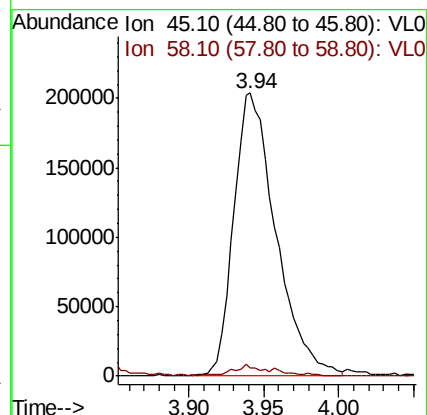
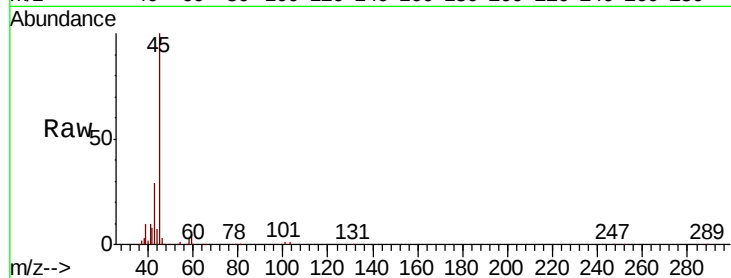
IA-4

Tot Ion: 45 Resp: 398886

Ion Ratio Lower Upper

45 100

58 3.4 1.7 2.5#



#20

Methylene Chloride

Concen: 4.177 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Tgt Ion: 84 Resp: 186822

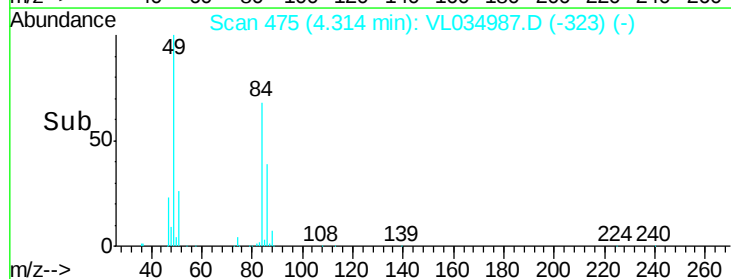
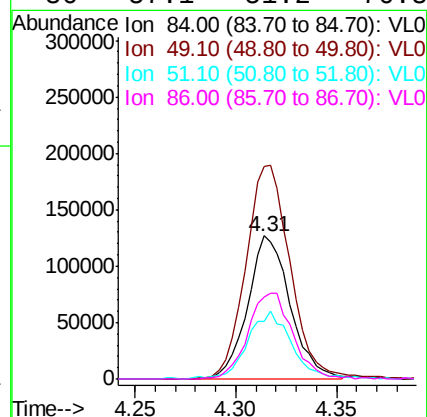
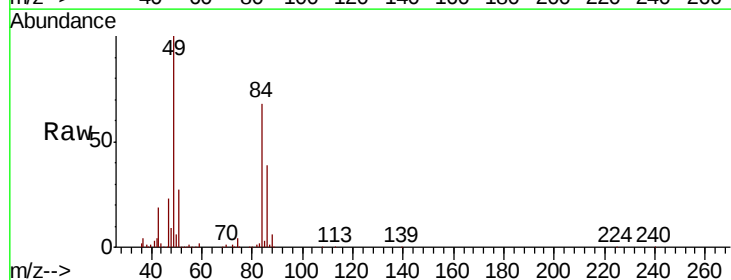
Ion Ratio Lower Upper

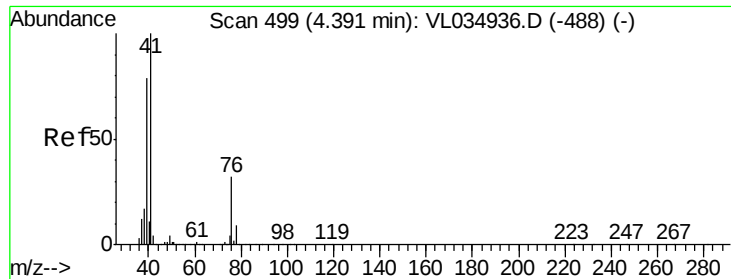
84 100

49 147.5 132.5 198.7

51 39.4 38.4 57.6

86 57.1 51.2 76.8





#21

Allvl Chloride

Concen: 0.189 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.05 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

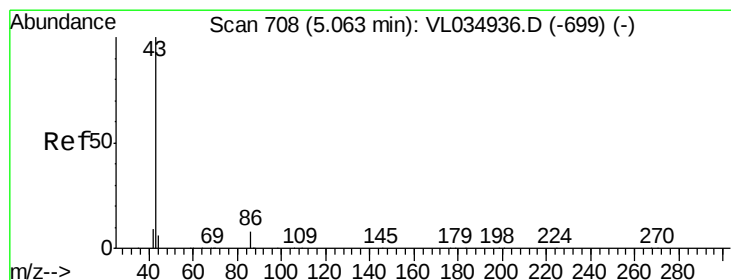
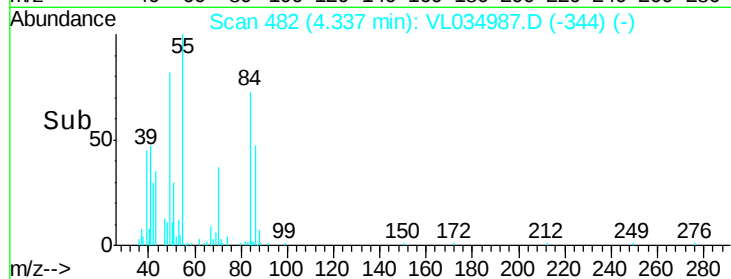
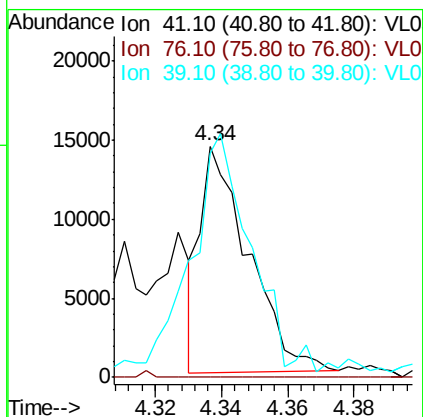
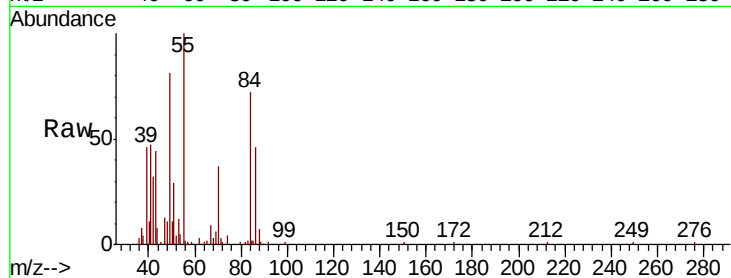
Tot Ion: 41 Resp: 14412

Ion Ratio Lower Upper

41 100

76 0.0 23.6 35.4#

39 148.5 61.9 92.9#



#23

Vinyl Acetate

Concen: 0.077 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.02 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Tgt Ion: 43 Resp: 13208

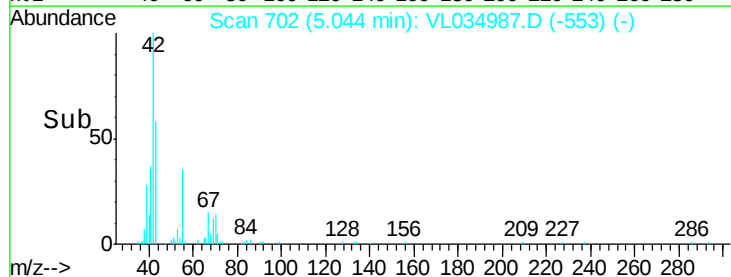
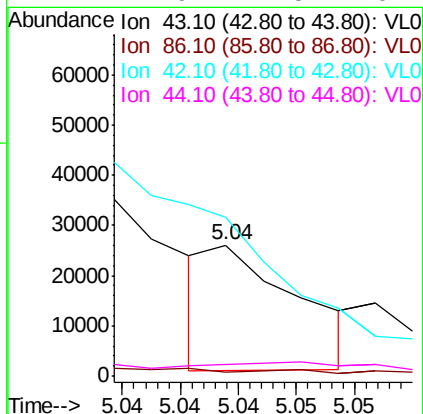
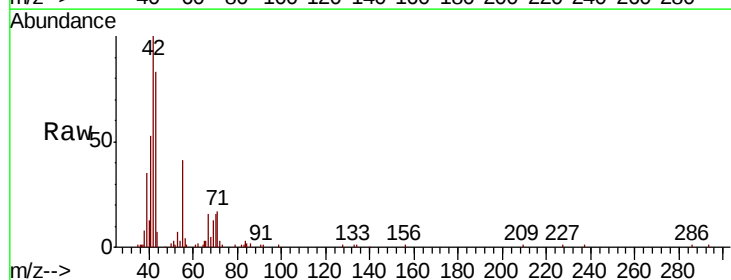
Ion Ratio Lower Upper

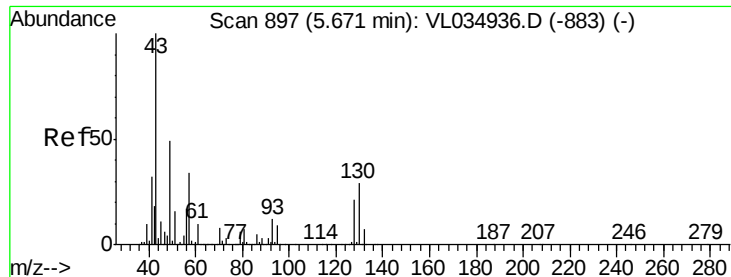
43 100

86 1.1 5.5 8.3#

42 138.7 8.0 12.0#

44 2.9 4.5 6.7#

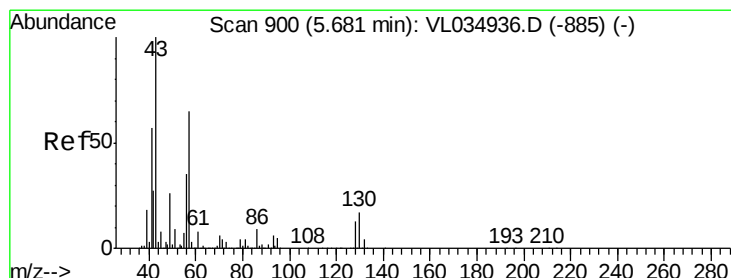
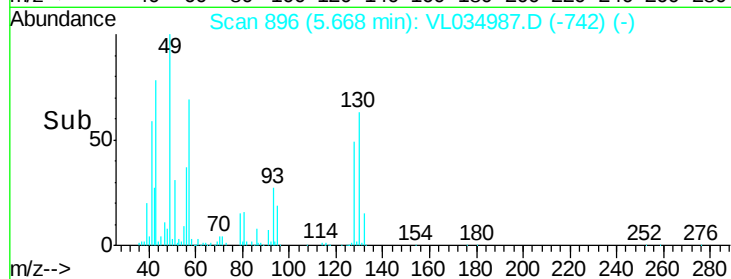
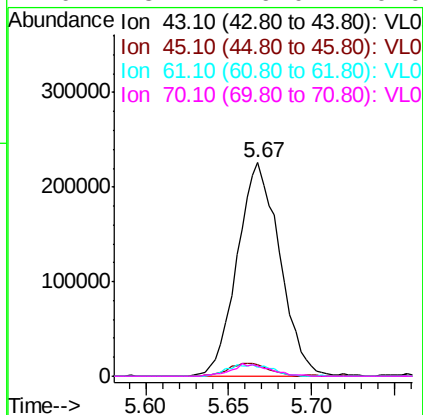
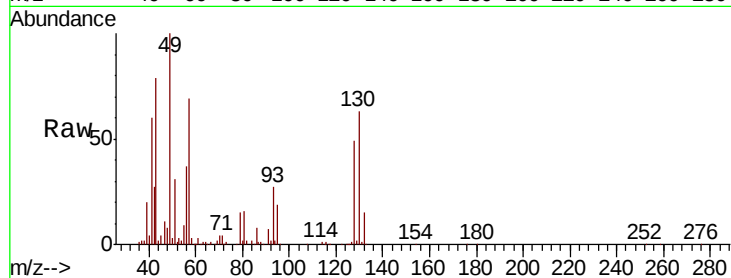




#25
Ethyl Acetate
Concen: 1.763 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

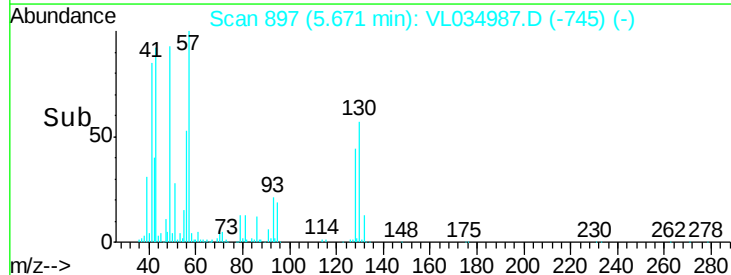
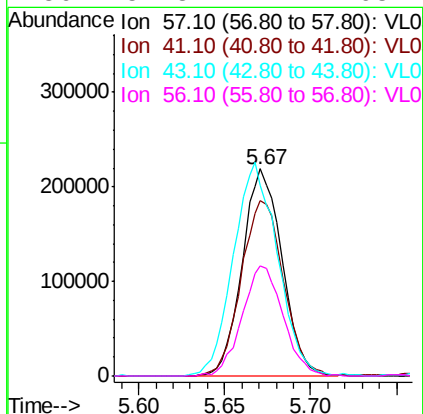
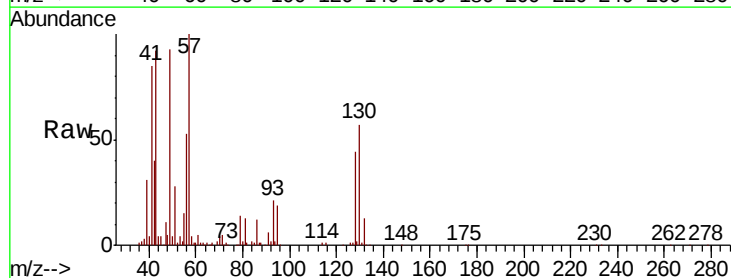
Instrument :
MSVOA_L
ClientSampleId :
IA-4

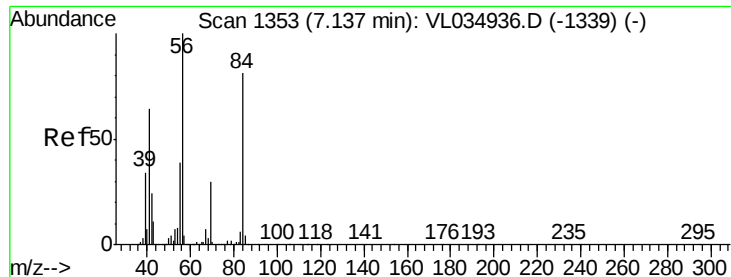
Tot Ion:	43	Resp:	400085
Ion	Ratio	Lower	Upper
43	100		
45	6.3	8.1	12.1#
61	5.8	7.8	11.8#
70	5.4	6.0	9.0#



#26
Hexane
Concen: 3.561 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

Tgt Ion:	57	Resp:	350429
Ion	Ratio	Lower	Upper
57	100		
41	90.9	72.7	109.1
43	115.8	182.1	273.1#
56	54.8	42.2	63.2

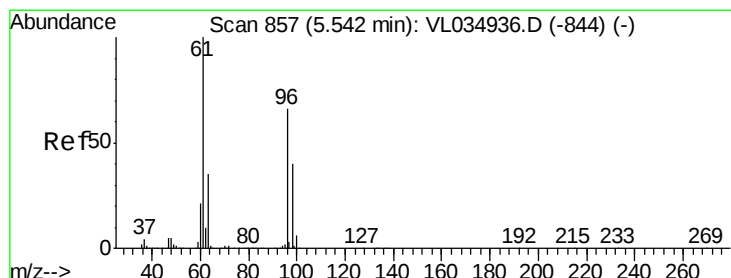
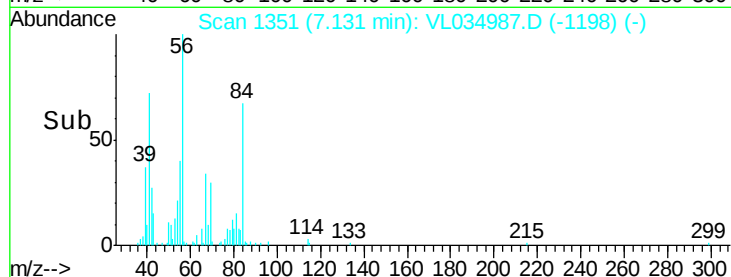
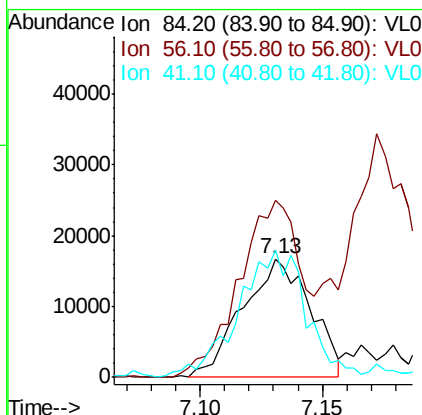
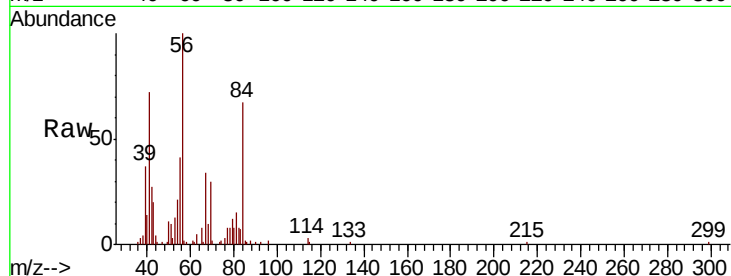




#30
Cvclohexane
Concen: 0.426 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

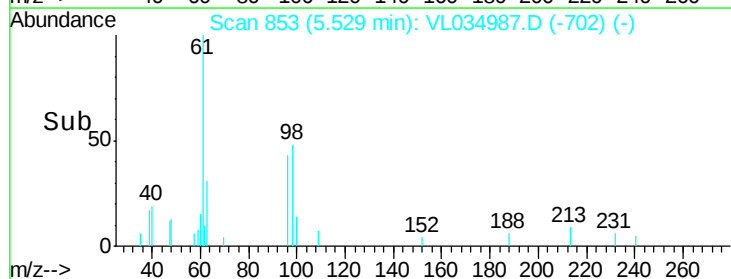
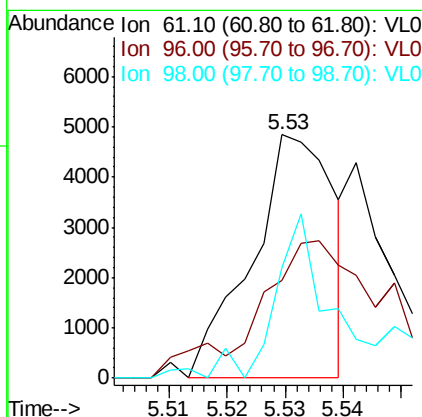
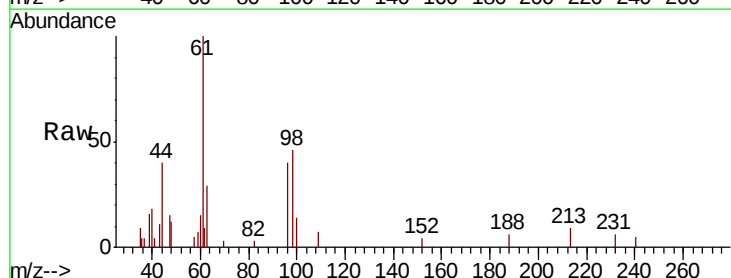
Instrument :
MSVOA_L
ClientSampleId :
IA-4

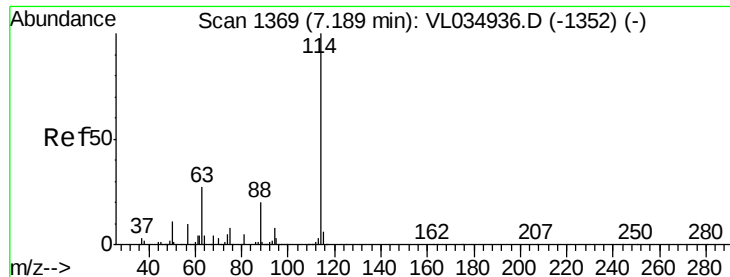
Tot Ion: 84 Resp: 32352
Ion Ratio Lower Upper
84 100
56 137.0 111.4 167.2
41 105.8 66.7 100.1#



#31
cis-1,2-Dichloroethene
Concen: 0.050 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.01 min
Lab File: VL034987.D
Acq: 12 May 2020 15:03

Tgt Ion: 61 Resp: 4759
Ion Ratio Lower Upper
61 100
96 28.9 53.0 79.6#
98 41.6 32.2 48.2

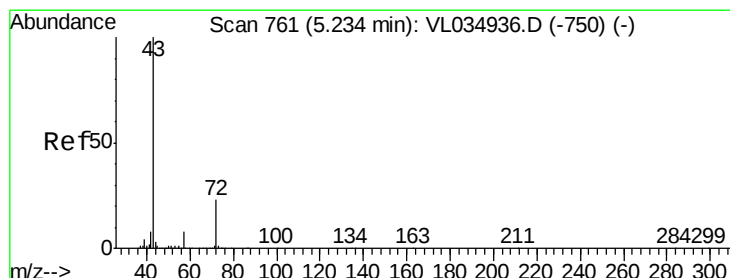
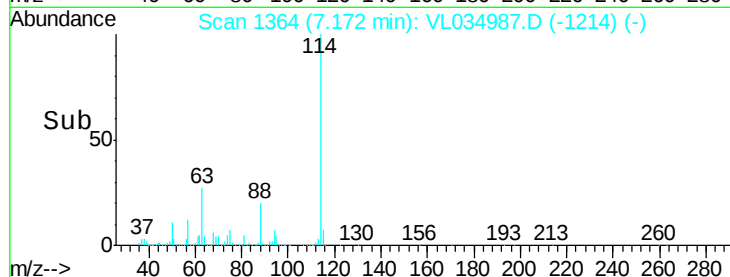
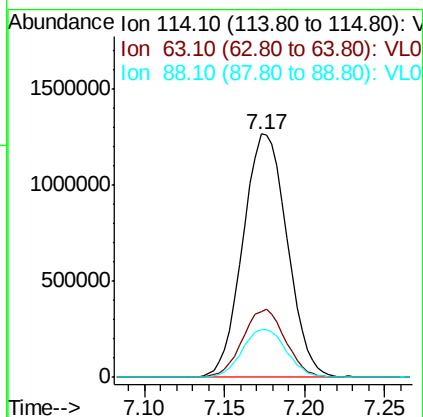
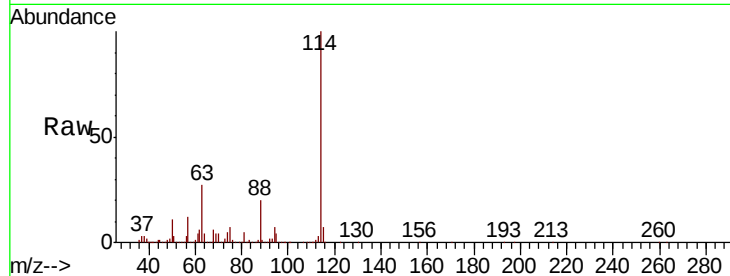




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL034987.D
 Acq: 12 May 2020 15:03

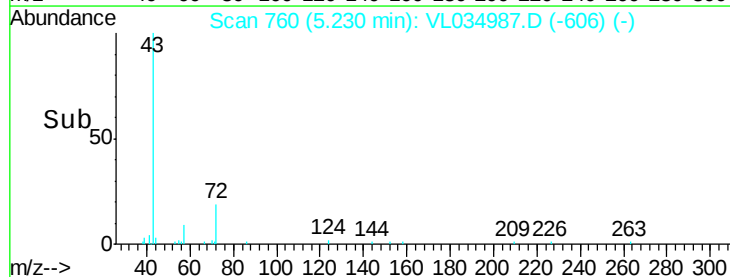
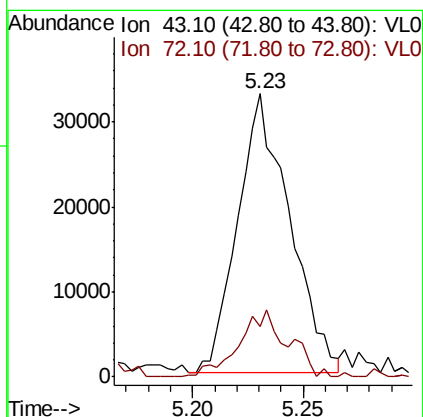
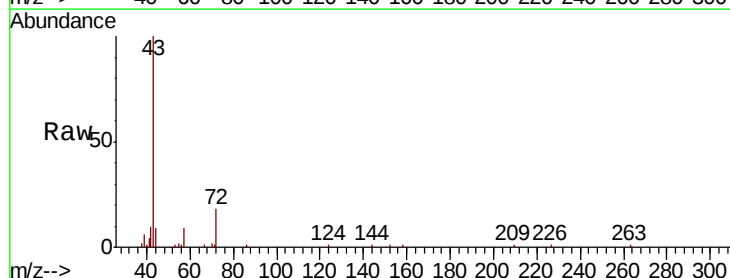
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

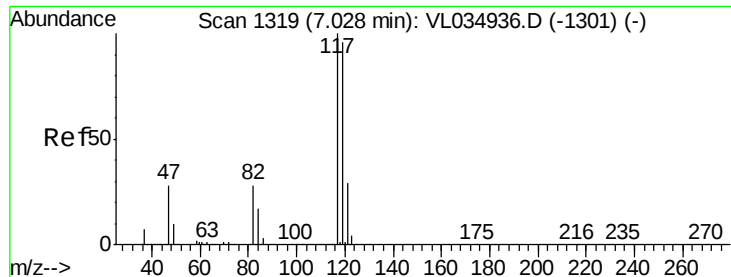
Tot Ion:114 Resp: 2389257
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.4
 88 19.9 15.5 23.3



#34
 2-Butanone
 Concen: 0.363 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL034987.D
 Acq: 12 May 2020 15:03

Tgt Ion: 43 Resp: 53865
 Ion Ratio Lower Upper
 43 100
 72 22.5 18.0 27.0





#35

Carbon Tetrachloride

Concen: 0.051 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

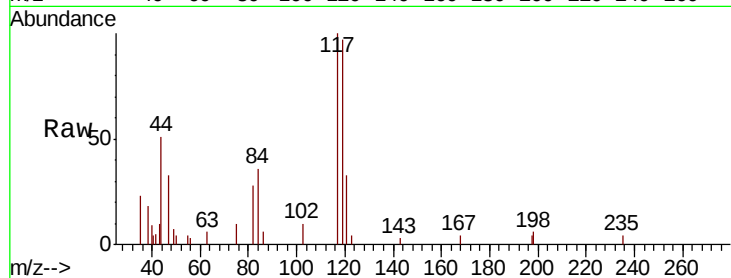
Tot Ion:117 Resp: 7756

Ion Ratio Lower Upper

117 100

119 80.8 77.0 115.6

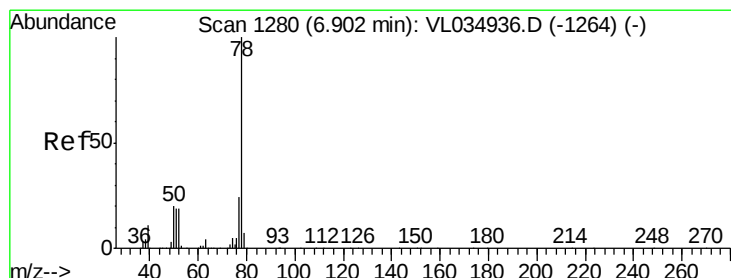
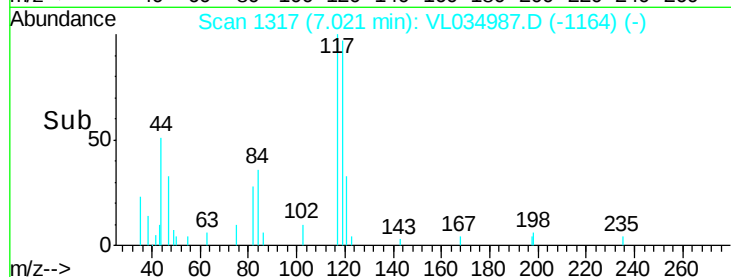
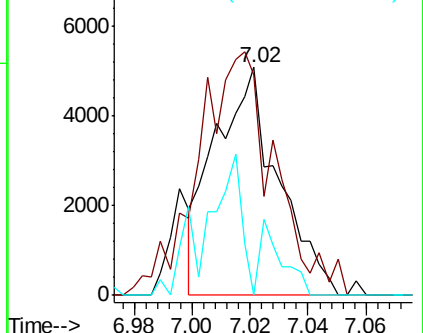
121 0.0 23.0 34.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.277 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

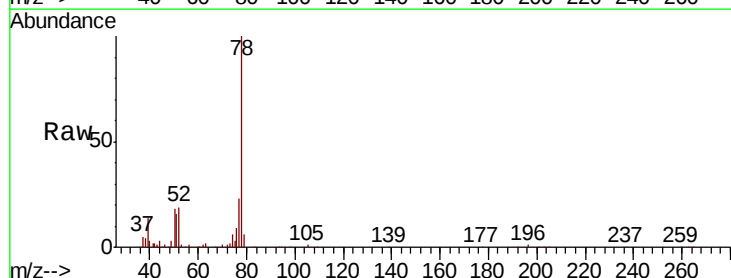
Tgt Ion: 78 Resp: 54600

Ion Ratio Lower Upper

78 100

77 22.4 19.0 28.6

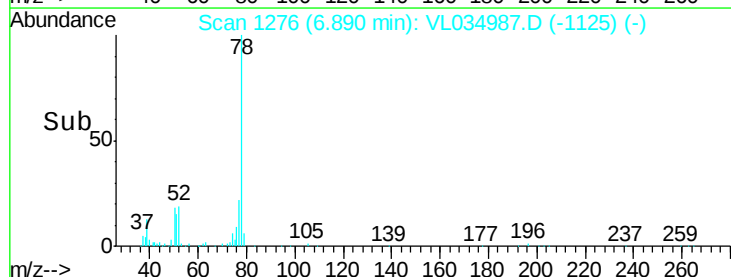
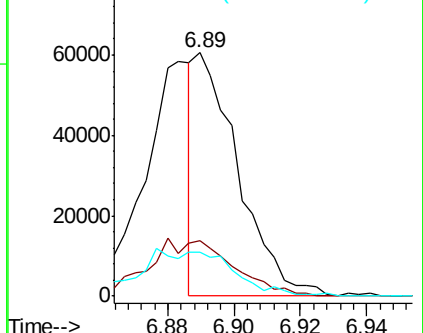
50 17.9 15.8 23.8

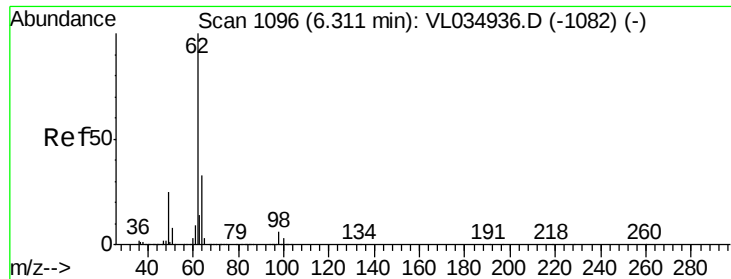


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

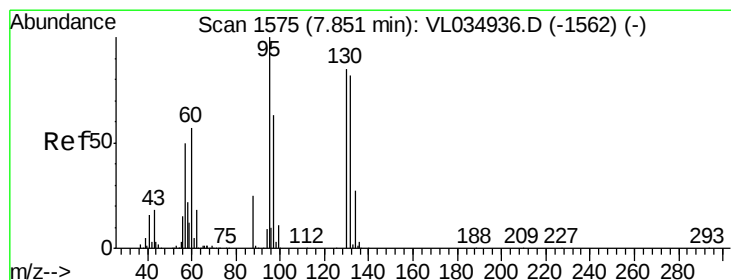
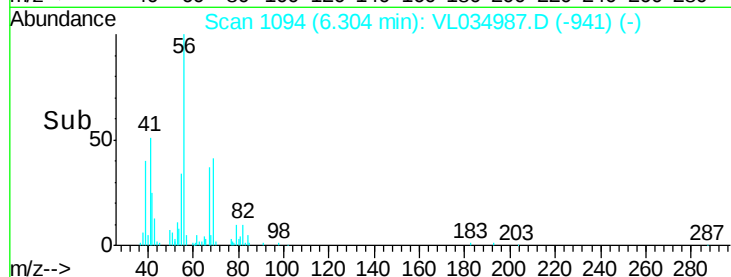
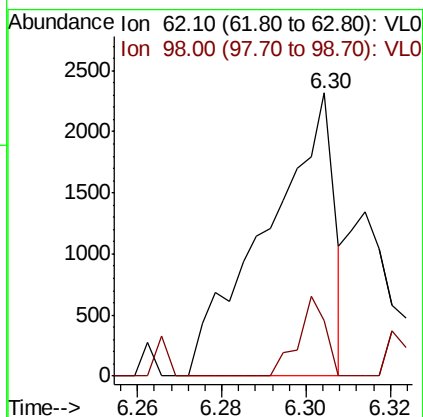
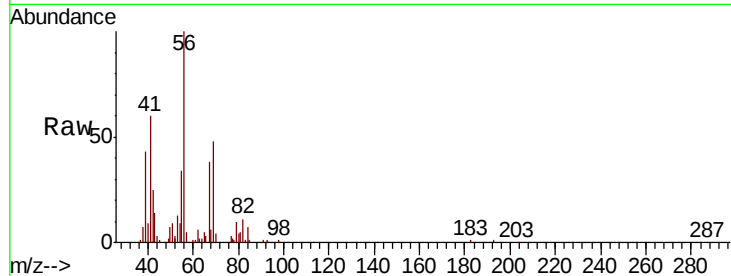




#37
 1,2-Dichloroethane
 Concen: 0.021 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL034987.D
 Acq: 12 May 2020 15:03

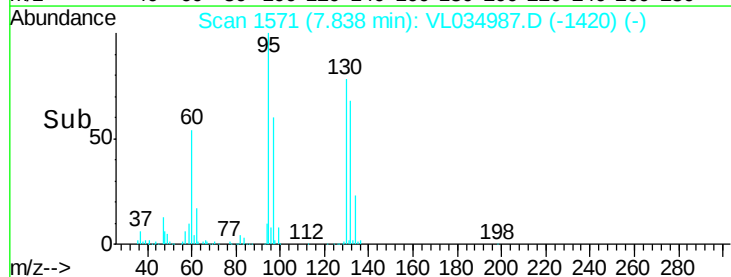
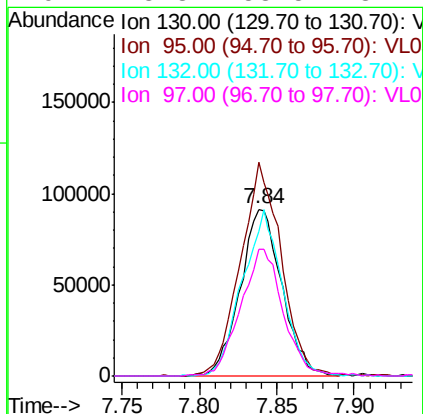
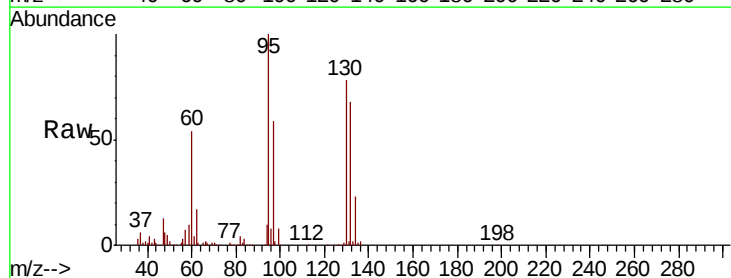
Instrument :
 MSVOA_L
 ClientSampled :
 IA-4

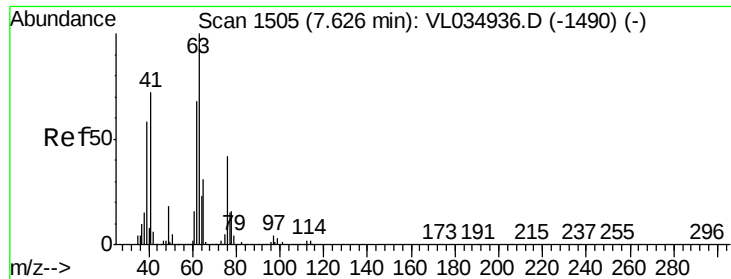
Tot Ion: 62 Resp: 2575
 Ion Ratio Lower Upper
 62 100
 98 11.4 4.8 7.2#



#38
 Trichloroethene
 Concen: 2.241 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL034987.D
 Acq: 12 May 2020 15:03

Tgt Ion: 130 Resp: 171049
 Ion Ratio Lower Upper
 130 100
 95 128.2 93.4 140.0
 132 86.3 76.4 114.6
 97 75.8 58.5 87.7

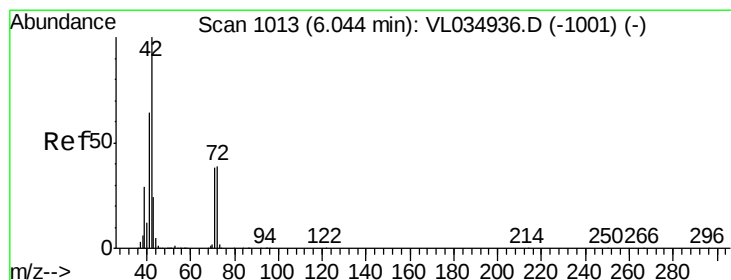
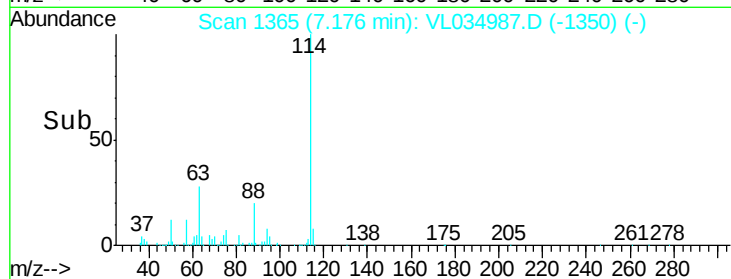
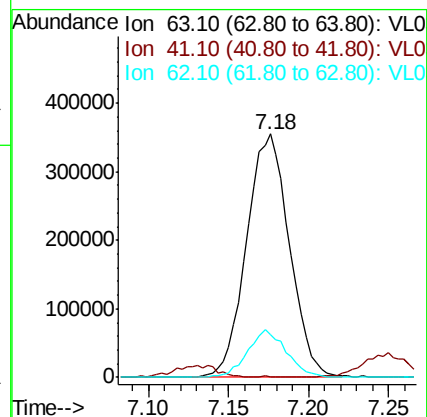
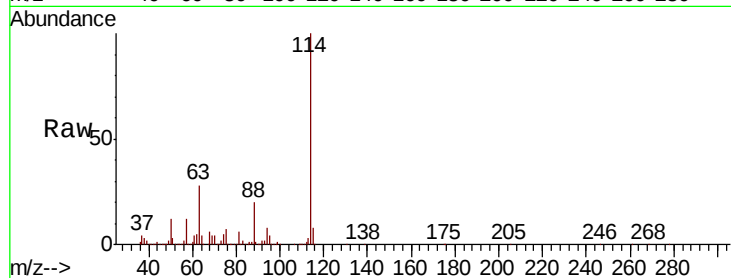




#39
 1,2-Dichloropropane
 Concen: 8.164 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034987.D
 Acq: 12 May 2020 15:03

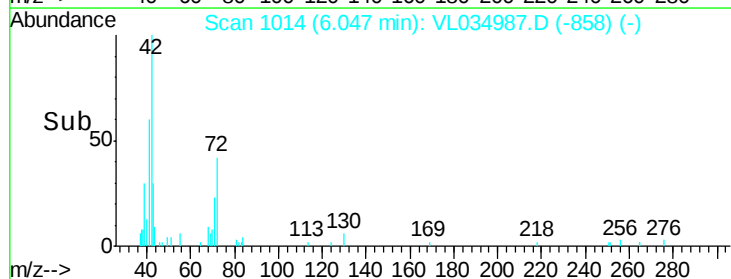
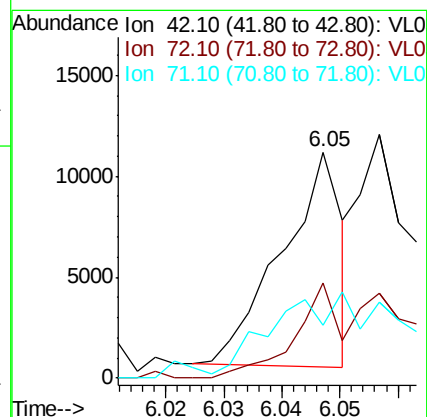
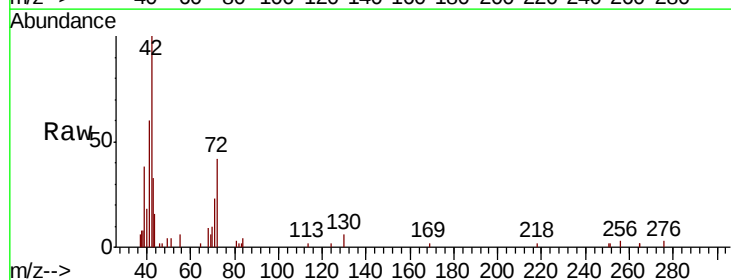
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

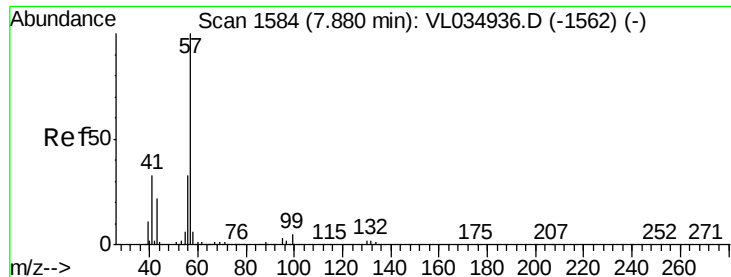
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.8	86.8#
62	17.7	54.2	81.2#



#41
 Tetrahydrofuran
 Concen: 0.098 ppbv
 RT: 6.05 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VL034987.D
 Acq: 12 May 2020 15:03

Tgt Ion	Ratio	Lower	Upper
42	100		
72	82.7	31.4	47.0#
71	100.1	29.8	44.8#





#44

2,2,4-Trimethylpentane

Concen: 0.233 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.02 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampled :

IA-4

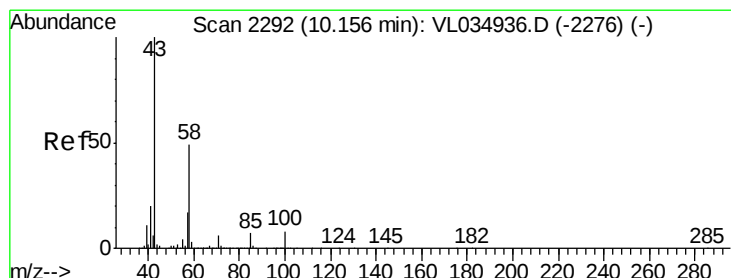
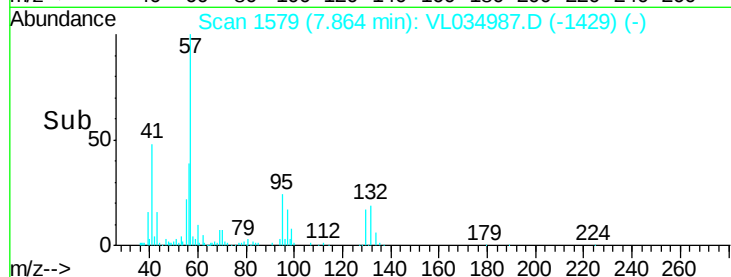
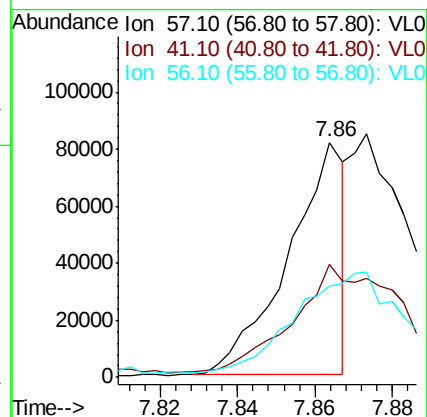
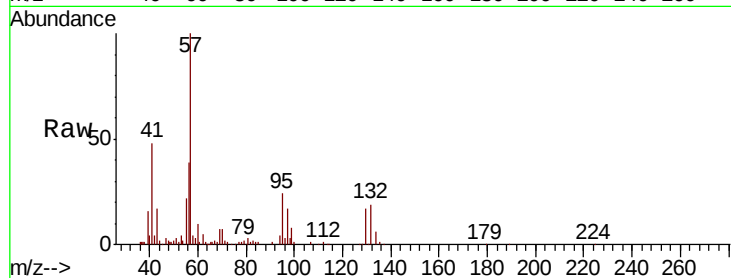
Tot Ion: 57 Resp: 81429

Ion Ratio Lower Upper

57 100

41 103.5 26.4 39.6#

56 0.0 25.5 38.3#



#51

2-Hexanone

Concen: 0.049 ppbv

RT: 10.13 min Scan# 2284

Delta R.T. -0.03 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

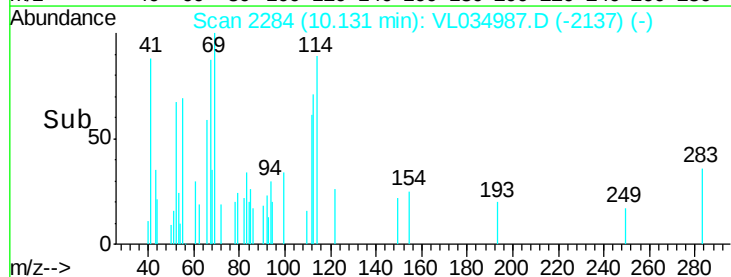
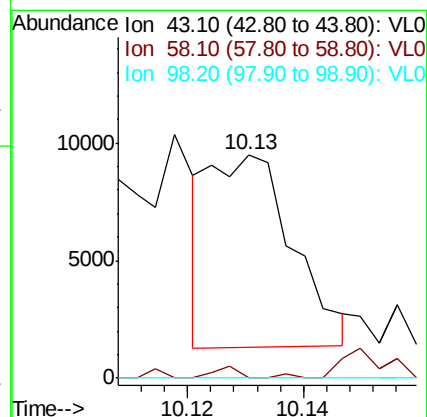
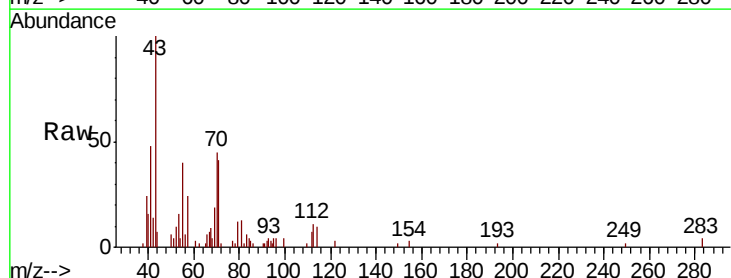
Tgt Ion: 43 Resp: 8164

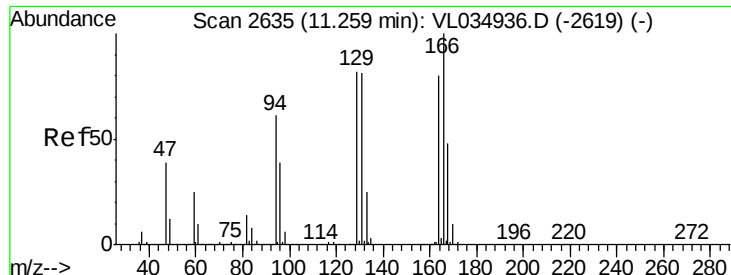
Ion Ratio Lower Upper

43 100

58 19.1 39.1 58.7#

98 0.0 0.3 0.5#





#52

Tetrachloroethene

Concen: 16.811 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

Tot Ion:164 Resp: 1177523

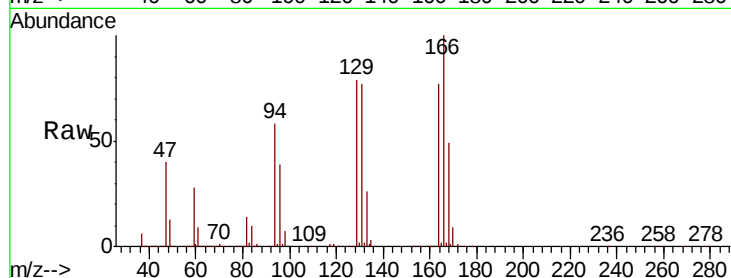
Ion Ratio Lower Upper

164 100

166 130.3 100.7 151.1

129 103.0 83.0 124.4

131 100.5 81.0 121.4

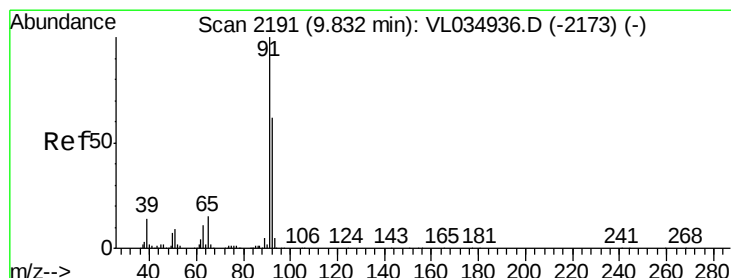
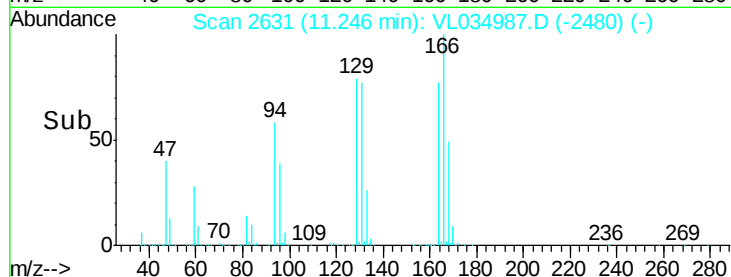
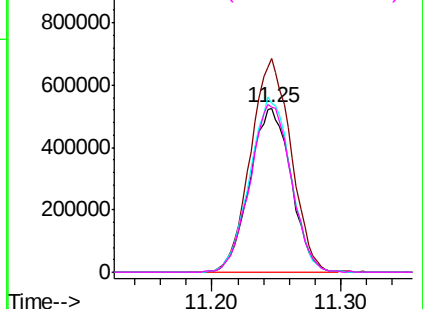


Abundance Ion 163.90 (163.60 to 164.60): V

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: 13.028 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL034987.D

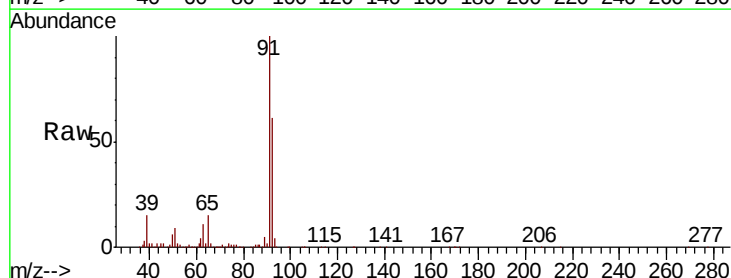
Acq: 12 May 2020 15:03

Tgt Ion: 91 Resp: 2720503

Ion Ratio Lower Upper

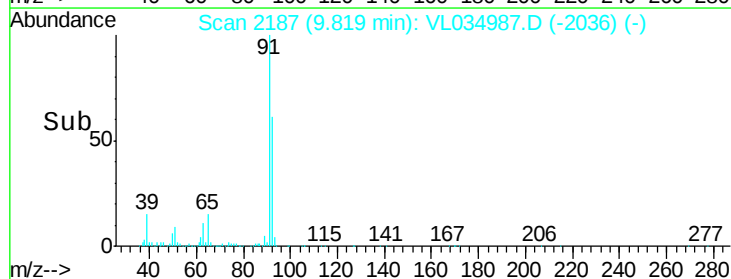
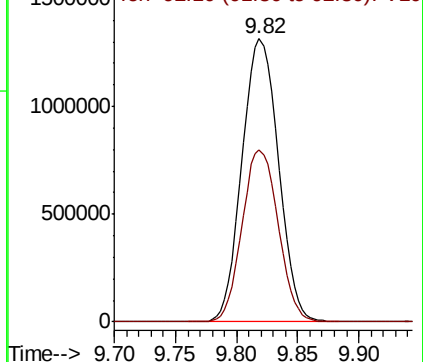
91 100

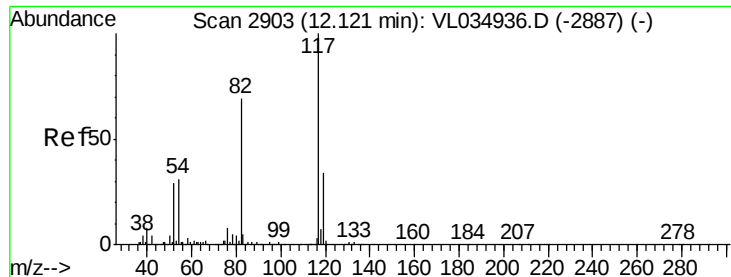
92 60.2 48.6 73.0



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: 12.11 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

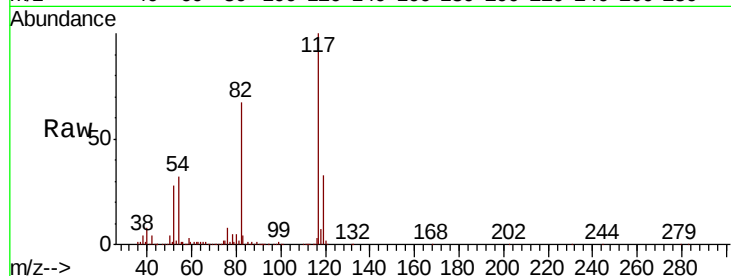
Tot Ion:117 Resp: 2246055

Ion Ratio Lower Upper

117 100

82 69.4 53.1 79.7

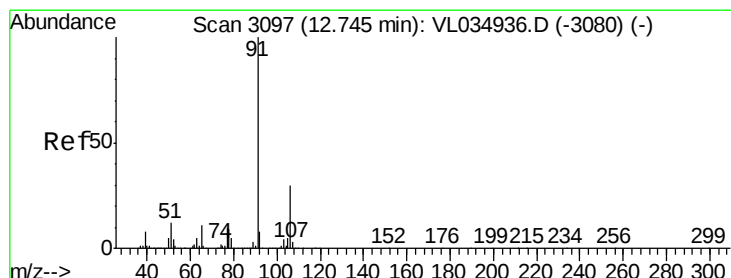
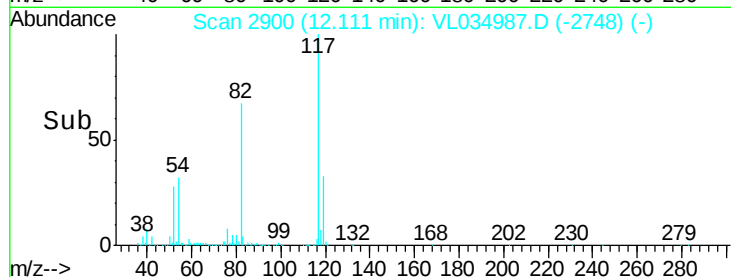
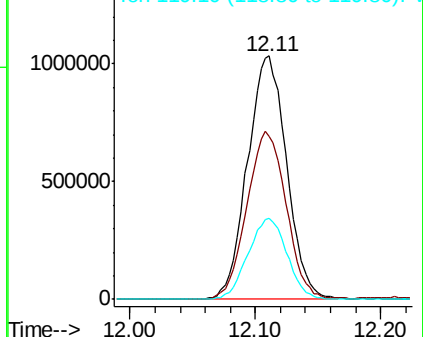
119 33.2 26.7 40.1



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: 0.722 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.01 min

Lab File: VL034987.D

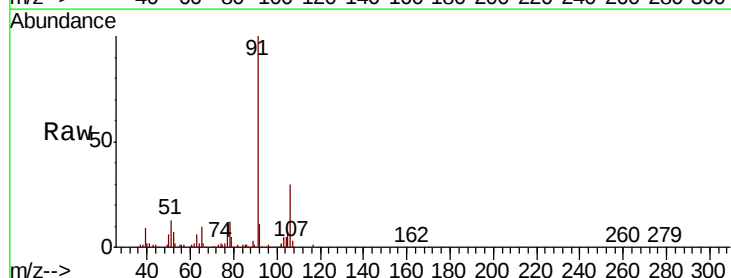
Acq: 12 May 2020 15:03

Tgt Ion: 91 Resp: 200639

Ion Ratio Lower Upper

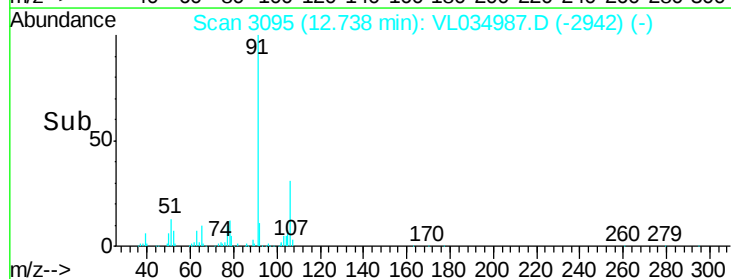
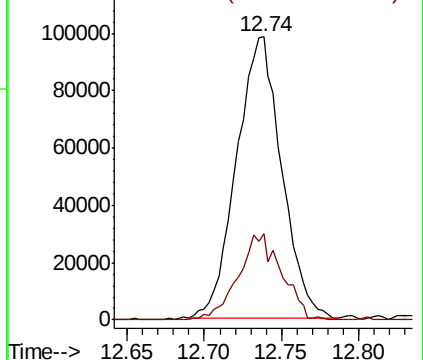
91 100

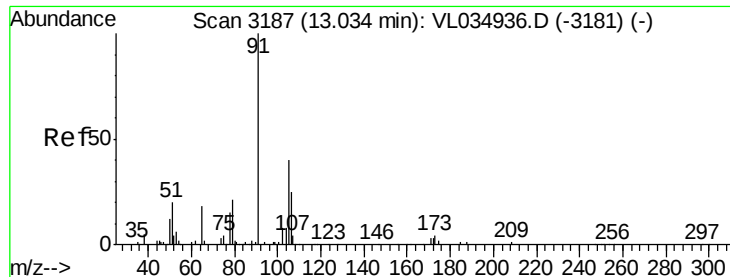
106 30.5 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.873 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.02 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

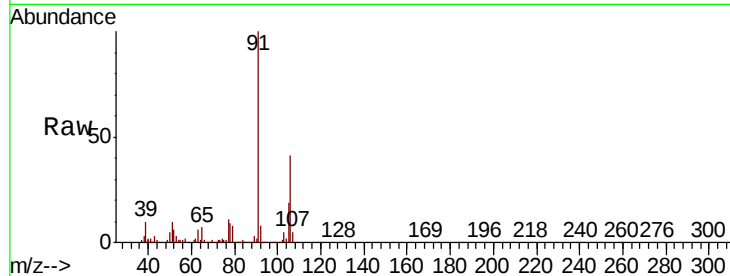
IA-4

Tot Ion: 91 Resp: 213282

Ion Ratio Lower Upper

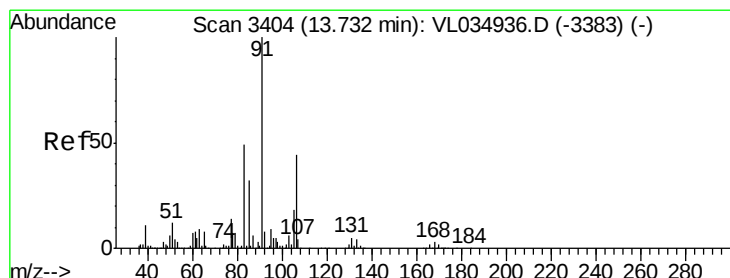
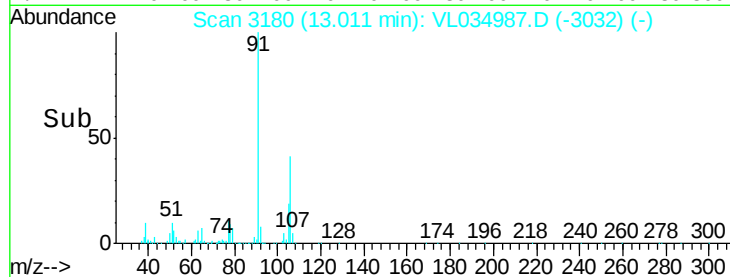
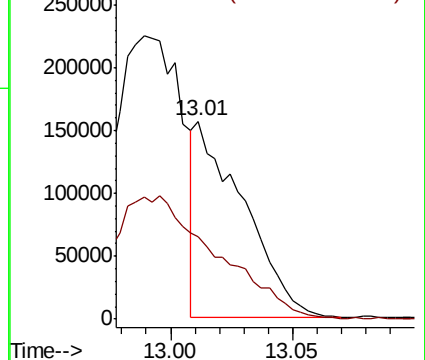
91 100

106 0.0 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.945 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. -0.01 min

Lab File: VL034987.D

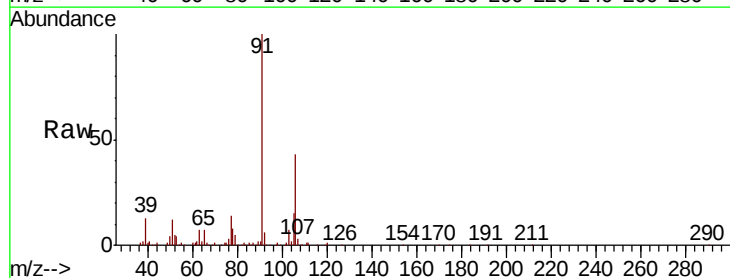
Acq: 12 May 2020 15:03

Tgt Ion: 91 Resp: 227762

Ion Ratio Lower Upper

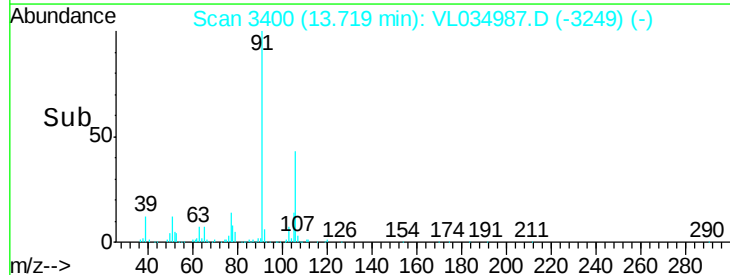
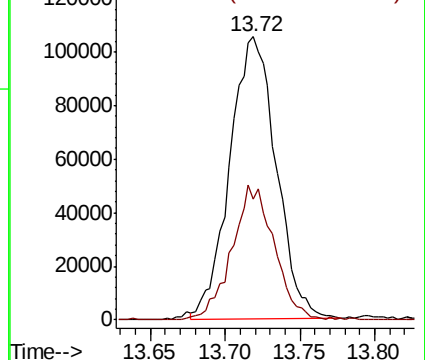
91 100

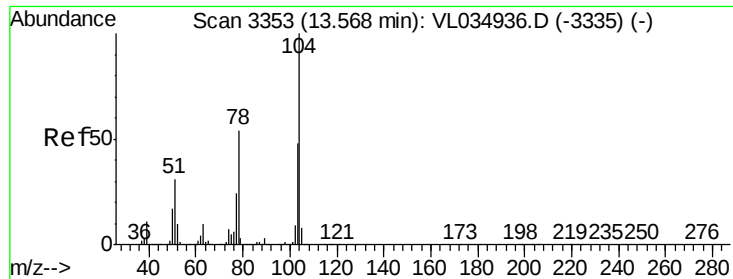
106 43.6 21.9 65.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.256 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. -0.02 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampled :

IA-4

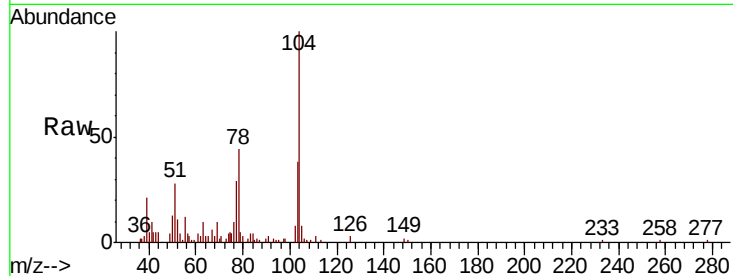
Tot Ion:104 Resp: 39055

Ion Ratio Lower Upper

104 100

78 74.8 43.7 65.5#

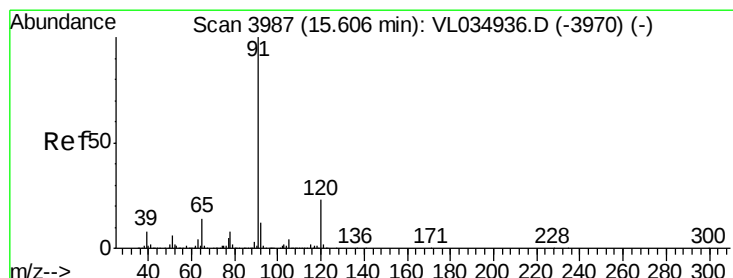
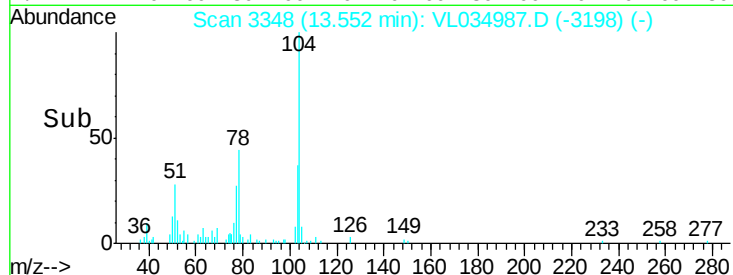
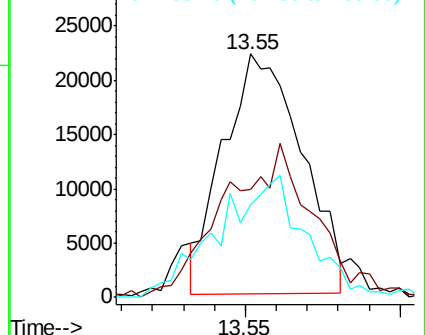
103 57.3 38.8 58.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#64

n-propylbenzene

Concen: 0.041 ppbv

RT: 15.59 min Scan# 3982

Delta R.T. -0.02 min

Lab File: VL034987.D

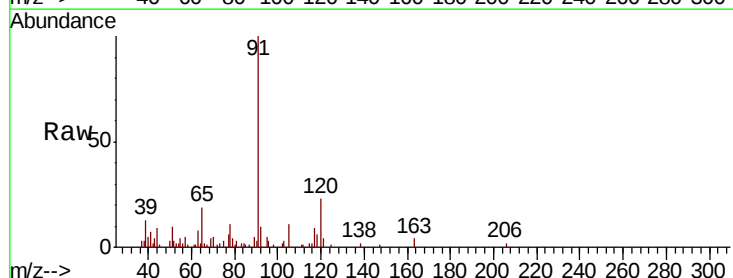
Acq: 12 May 2020 15:03

Tgt Ion:120 Resp: 3747

Ion Ratio Lower Upper

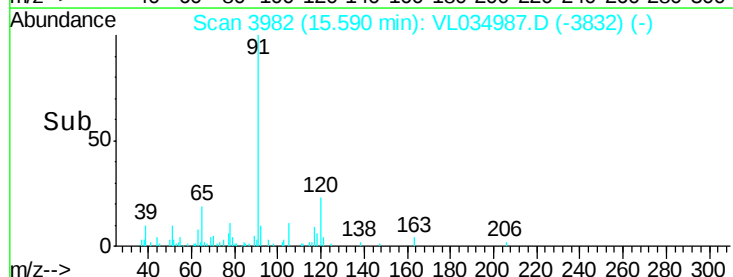
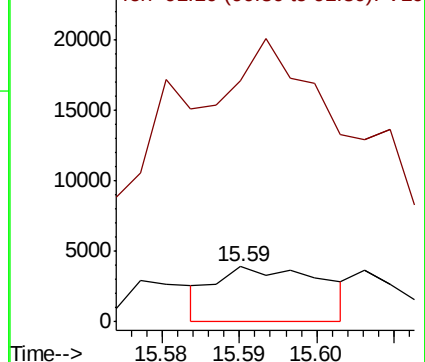
120 100

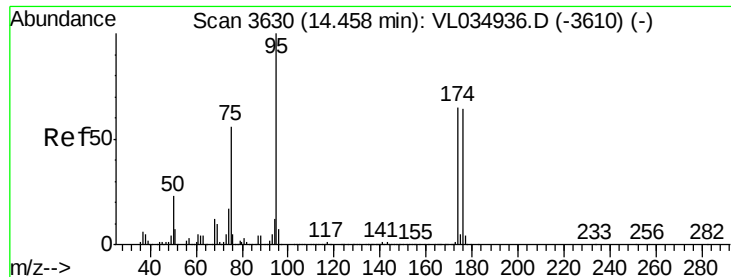
91 1229.2 373.5 560.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.387 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

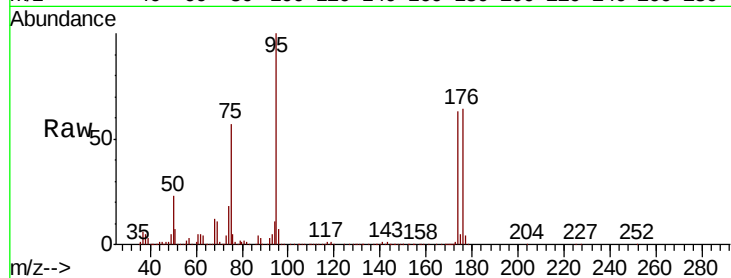
Tot Ion: 95 Resp: 1888354

Ion Ratio Lower Upper

95 100

174 64.2 51.5 77.3

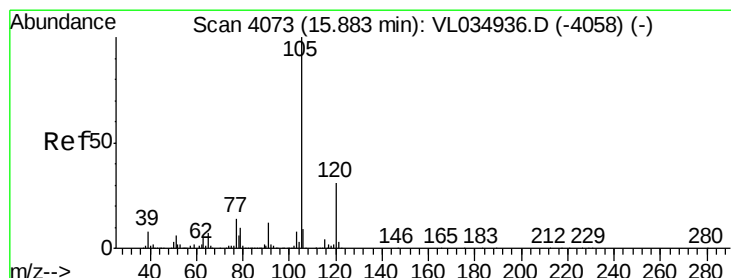
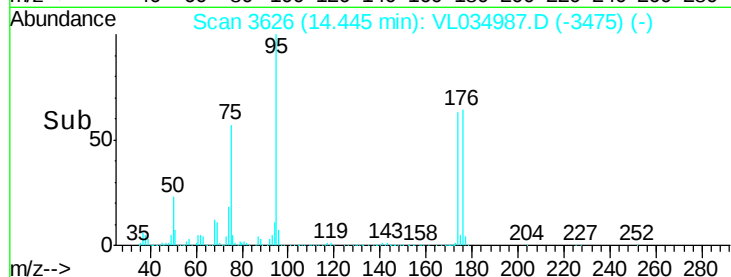
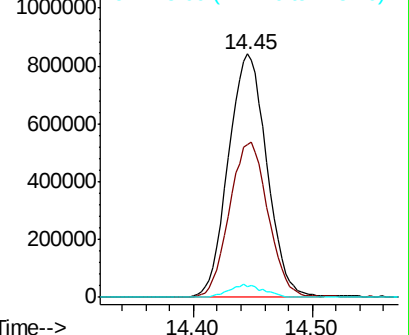
175 4.8 3.8 5.8



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: 0.097 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Tgt Ion: 105 Resp: 26057

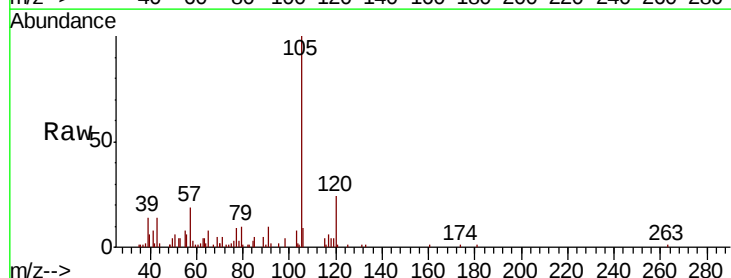
Ion Ratio Lower Upper

105 100

120 55.1 23.8 35.8#

91 32.7 10.6 15.8#

77 30.0 11.6 17.4#

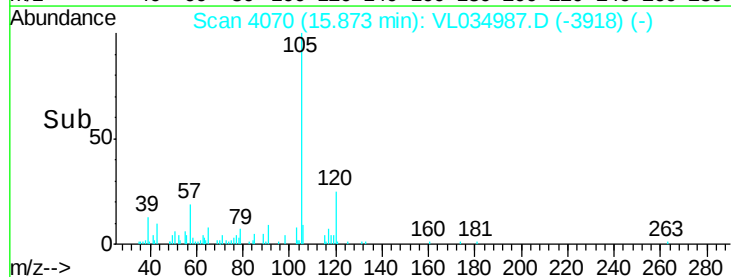
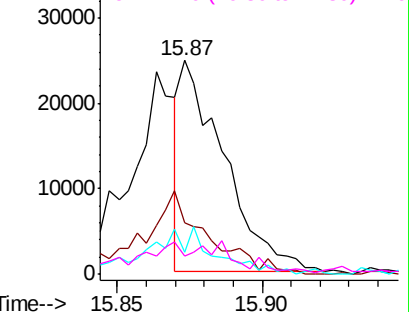


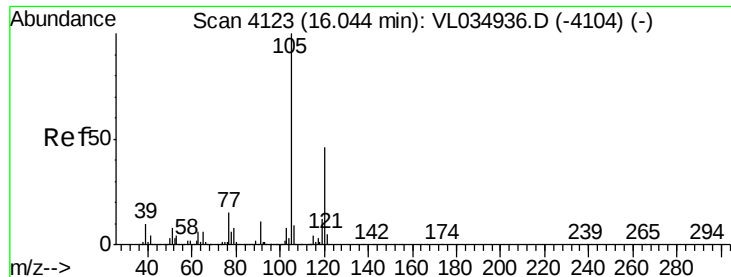
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.091 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampled :

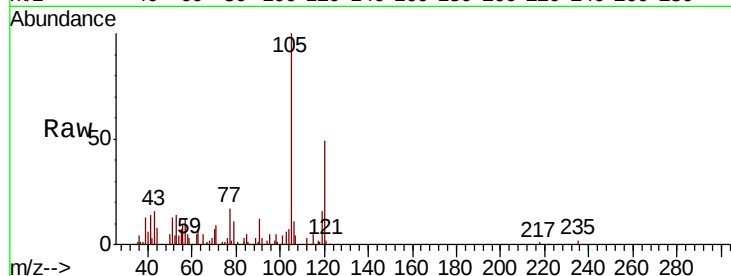
IA-4

Tot Ion:105 Resp: 23902

Ion Ratio Lower Upper

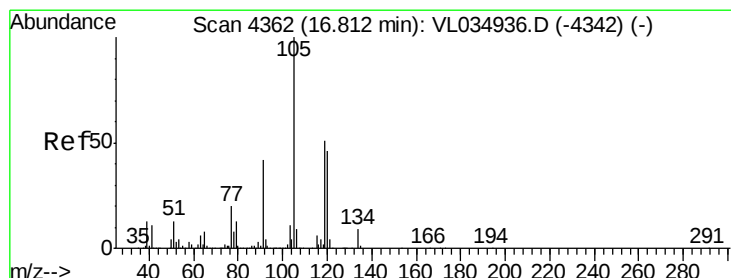
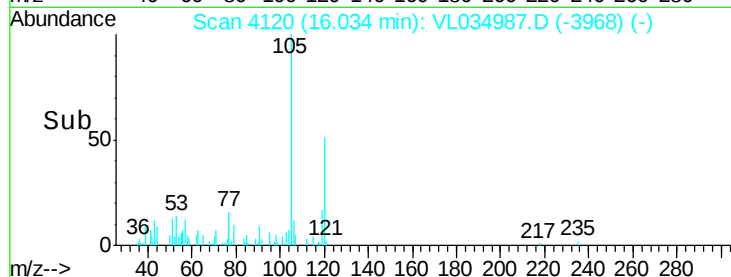
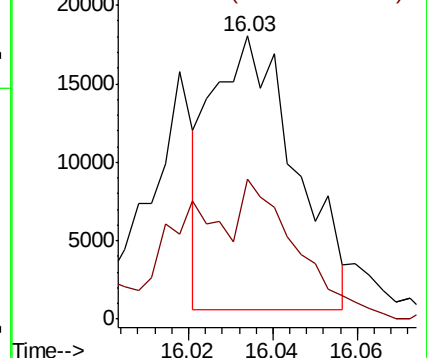
105 100

120 51.4 36.4 54.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.592 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Tgt Ion:105 Resp: 169049

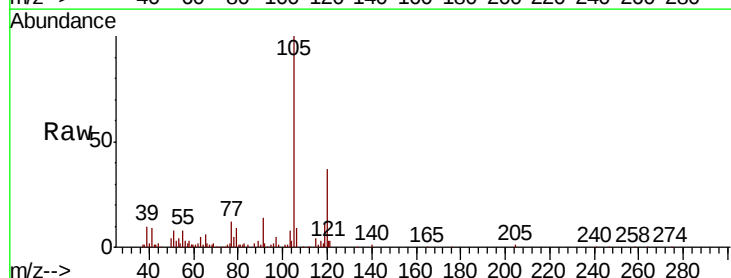
Ion Ratio Lower Upper

105 100

120 38.5 36.8 55.2

91 13.2 35.4 53.0#

77 11.9 16.2 24.2#

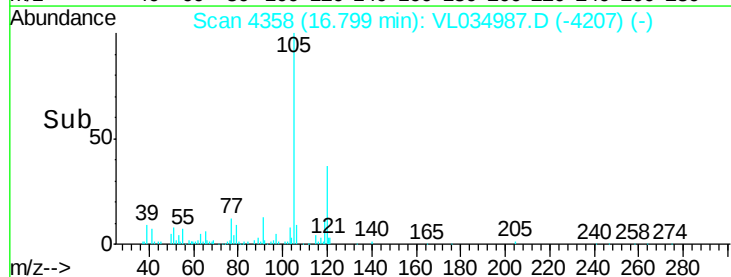
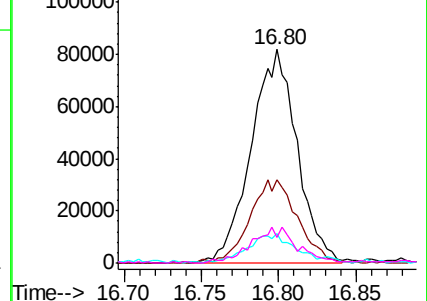


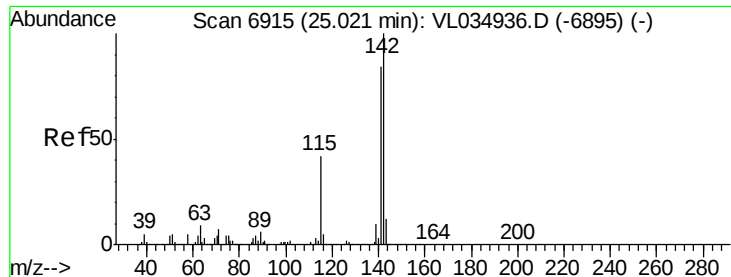
Abundance Ion 105.10 (104.80 to 105.80): V

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





#80

Naphthalene, 2-methyl-

Concen: 0.146 ppbv

RT: 25.02 min Scan# 6916

Delta R.T. 0.00 min

Lab File: VL034987.D

Acq: 12 May 2020 15:03

Instrument :

MSVOA_L

ClientSampleId :

IA-4

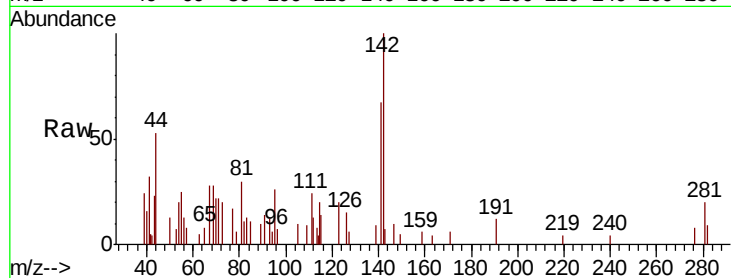
Tot Ion:142 Resp: 7963

Ion Ratio Lower Upper

142 100

141 70.9 68.6 102.8

115 47.2 33.9 50.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

