

Data File : VL034603.D
Acq On : 6 Feb 2020 16:53
Operator : SY/AP
Sample : VL0206ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0206ABS01

Quant Time: Feb 07 07:35:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1052572	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.22	114	2114389	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2299398	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1896986	9.76	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	2111511	9.108	ppbv	96
3) Chlorodifluoromethane	2.97	51	1237086	9.727	ppbv	99
4) Chloromethane	3.12	50	659601	8.476	ppbv	100
5) Vinyl Chloride	3.24	62	647717	8.714	ppbv	100
6) Bromomethane	3.46	94	389116	10.064	ppbv	94
7) Chloroethane	3.55	64	246269	8.909	ppbv	93
8) Dichlorotetrafluoroethane	3.17	85	1625772	8.972	ppbv	99
9) Propene	2.99	41	425696	8.596	ppbv	99
10) Heptane	8.17	43	1192004	9.565	ppbv	100
11) Trichlorofluoromethane	3.94	101	1973474	9.371	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1297882	9.445	ppbv	99
13) Ethanol	3.59	45	112835	8.507	ppbv	99
14) Bromoethene	3.73	108	514480	9.545	ppbv	99
15) Acetone	3.84	43	1492251	9.646	ppbv	98
16) 1,3-Butadiene	3.31	39	588248	9.576	ppbv	99
17) tert-Butyl alcohol	4.29	59	1066375	9.373	ppbv	100
18) 1,1-Dichloroethene	4.29	96	564866	9.738	ppbv	92
19) Isopropyl Alcohol	3.97	45	821812	9.103	ppbv	100
20) Methylene Chloride	4.35	84	490692	8.330	ppbv	93
21) Allyl Chloride	4.41	41	918600	9.561	ppbv	100
22) trans-1,2-Dichloroethene	4.90	96	560624	9.229	ppbv	94
23) Vinyl Acetate	5.09	43	1785391	10.116	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1352990	9.182	ppbv	100
25) Ethyl Acetate	5.70	43	2180384	8.706	ppbv	99
26) Hexane	5.71	57	965756	9.206	ppbv	96
27) Carbon Disulfide	4.55	76	1430118	10.104	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1714255	9.582	ppbv	100
29) Chloroform	5.78	83	1675572	9.033	ppbv	100
30) Cyclohexane	7.17	84	761357	9.794	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	1012139	9.287	ppbv	97
32) 1,1,1-Trichloroethane	6.54	97	1778884	8.932	ppbv	100
34) 2-Butanone	5.26	43	1394659	9.084	ppbv	99
35) Carbon Tetrachloride	7.05	117	1923482	9.515	ppbv	98
36) Benzene	6.93	78	1785076	9.493	ppbv	97
37) 1,2-Dichloroethane	6.34	62	1472274	9.385	ppbv	100
38) Trichloroethene	7.88	130	767895	9.688	ppbv	94
39) 1,2-Dichloropropane	7.65	63	737362	9.460	ppbv	97
40) 1,4-Dioxane	7.87	88	276487	9.227	ppbv	94
41) Tetrahydrofuran	6.08	42	761310	9.506	ppbv	99
42) Bromodichloromethane	7.84	83	1883210	9.753	ppbv	97
43) Methyl Methacrylate	8.05	69	760236	10.052	ppbv	99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3235974	9.485	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	1022662	10.327	ppbv	95
46) cis-1,3-Dichloropropene	8.75	75	1153346	10.247	ppbv	98
47) 1,1,2-Trichloroethane	9.53	97	813207	9.632	ppbv	97
48) Dibromochloromethane	10.37	129	1582880	10.232	ppbv	99
49) Bromoform	13.11	173	1412733	10.401	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2121755	9.691	ppbv	99
51) 2-Hexanone	10.19	43	1739210	10.091	ppbv #	100
52) Tetrachloroethene	11.29	164	715831	9.477	ppbv	96
53) Toluene	9.86	91	2122902	10.277	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1290930	10.204	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.19	131	1083178	9.542	ppbv	98
57) Chlorobenzene	12.21	112	1703206	9.002	ppbv	95
58) Ethyl Benzene	12.78	91	2988511	9.713	ppbv	97
59) m/p-Xylene	13.07	91	2523346	9.277	ppbv #	30
60) o-Xylene	13.76	91	2599346	9.516	ppbv	99
61) Styrene	13.60	104	1782923	9.789	ppbv	98
62) Isopropylbenzene	14.74	105	3421834	9.667	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.75	83	1876232	8.881	ppbv	98
64) n-propylbenzene	15.64	120	889294	9.765	ppbv	96
65) tert-Butylbenzene	16.82	119	3177284	9.907	ppbv	100
66) Benzyl Chloride	17.07	91	1493322	11.105	ppbv	100
67) sec-Butylbenzene	17.37	105	4319494	9.801	ppbv	99
69) p-Isopropyltoluene	17.73	119	3604893	10.073	ppbv	100
70) n-Butylbenzene	18.63	91	3788547	9.973	ppbv	99
71) 2-Chlorotoluene	15.53	91	2653199	9.874	ppbv	99
72) 4-Ethyltoluene	15.91	105	2959364	9.863	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2877332	9.814	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	3018230	9.299	ppbv	93
75) 1,3-Dichlorobenzene	17.08	146	1685950	9.021	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1654020	8.980	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1640469	9.137	ppbv	98
78) Hexachloro-1,3-Butadiene	23.46	225	1364684	7.949	ppbv	99
79) Naphthalene	22.30	128	2330990	9.122	ppbv	98
80) Naphthalene,2-methyl-	25.04	142	478783	4.870	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1332668	8.459	ppbv	100

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

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Instrument :
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ClientSampleId :
VL0206ABS01

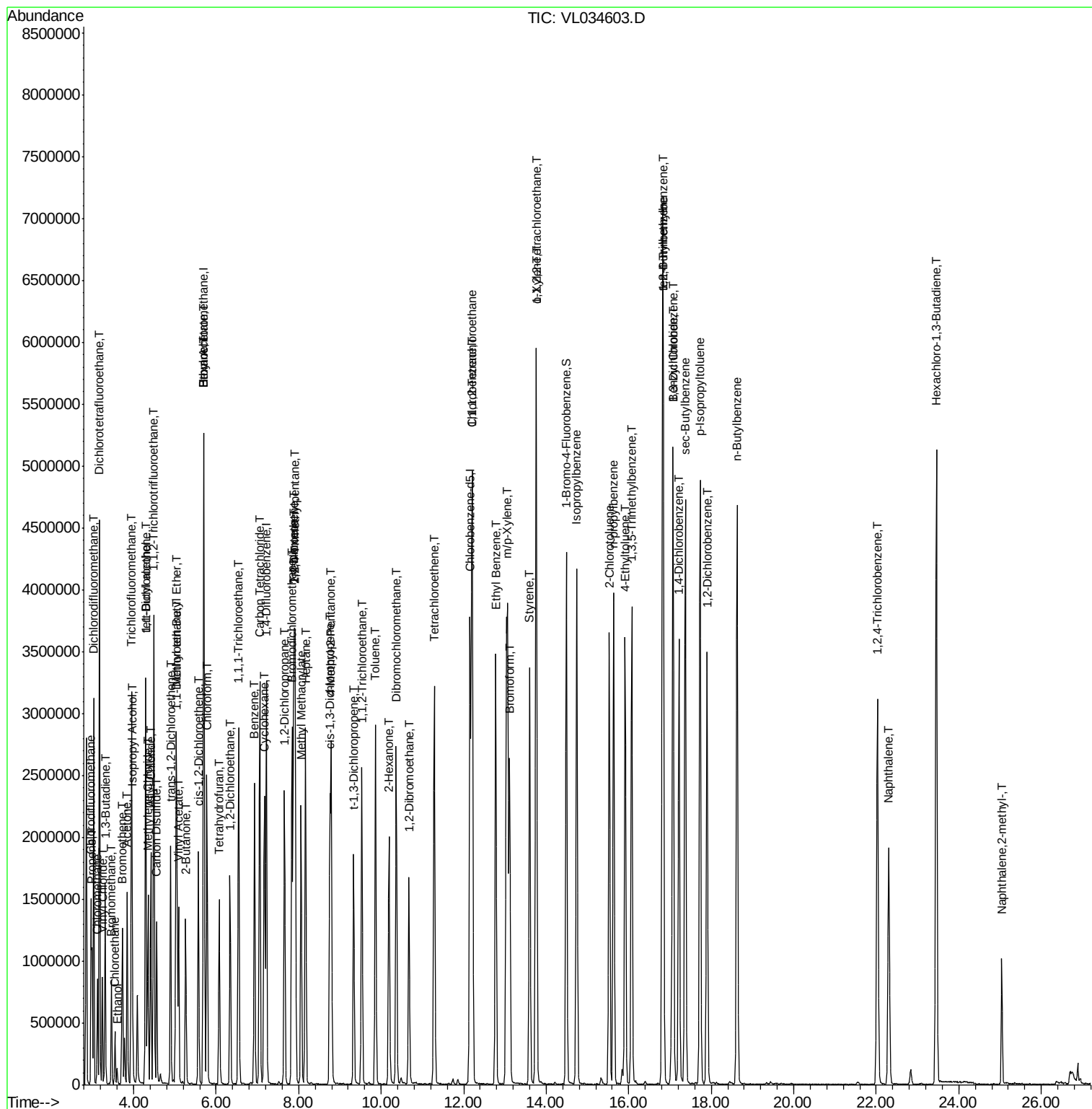
Quant Time: Feb 07 07:35:34 2020

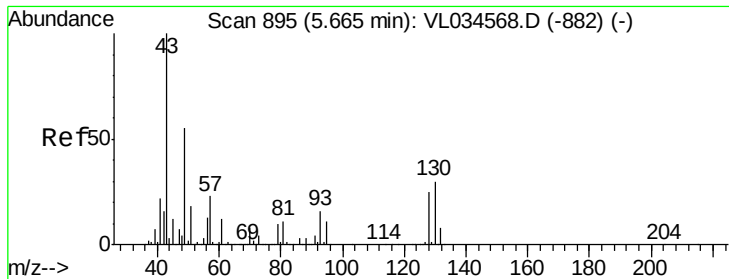
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL013020AIR.M

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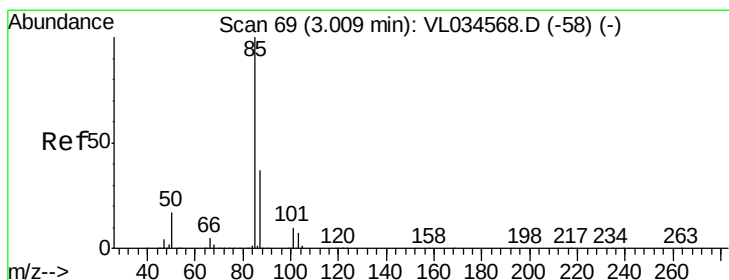
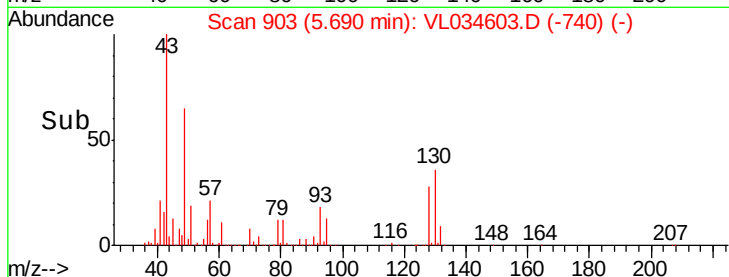
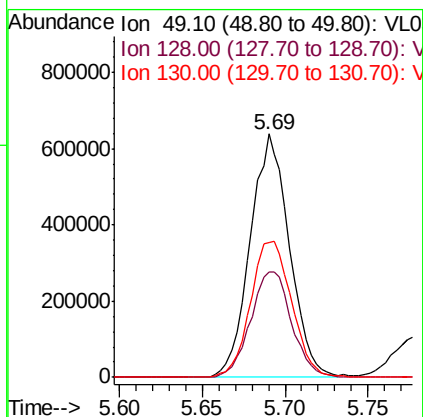
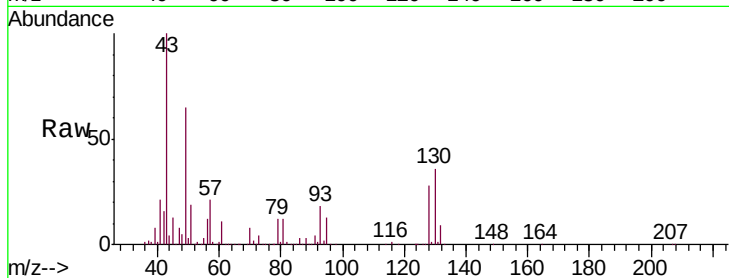




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.03 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

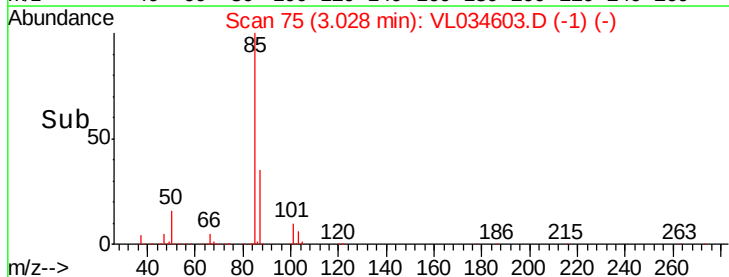
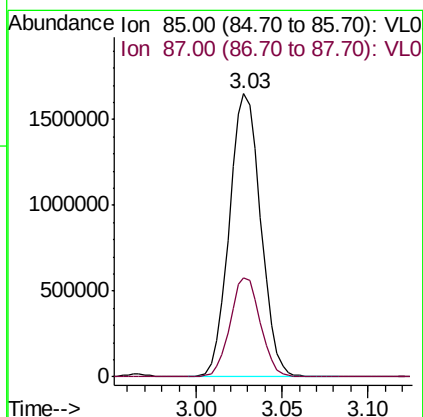
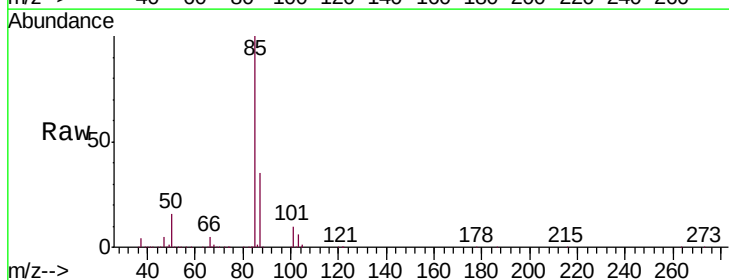
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0206ABS01

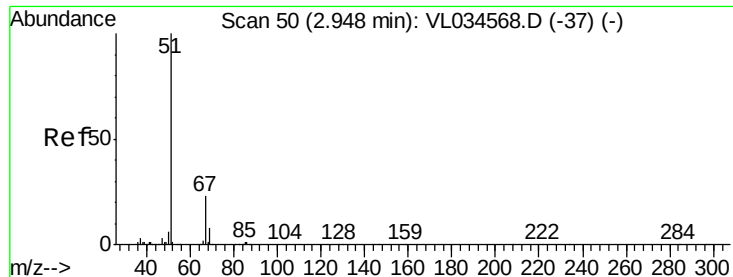
Tgt Ion: 49 Resp: 1052572
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.7 68.1
 130 59.1 28.6 85.8



#2
 Dichlorodifluoromethane
 Concen: 9.108 ppbv
 RT: 3.03 min Scan# 75
 Delta R.T. 0.02 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Tgt Ion: 85 Resp: 2111511
 Ion Ratio Lower Upper
 85 100
 87 34.8 29.5 44.3





#3

Chlorodifluoromethane

Concen: 9.727 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

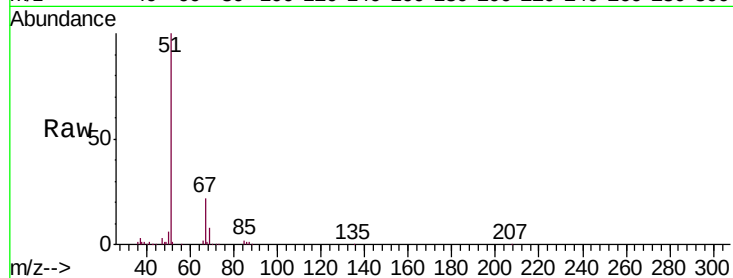
VL0206ABS01

Tgt Ion: 51 Resp: 1237086

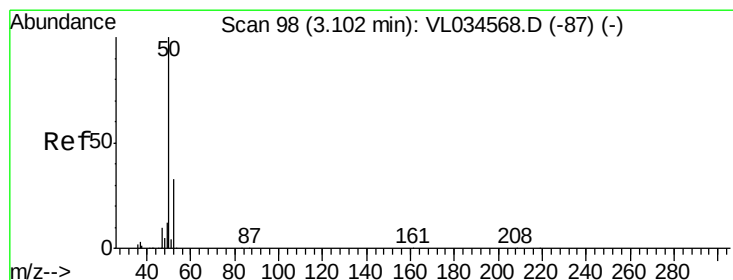
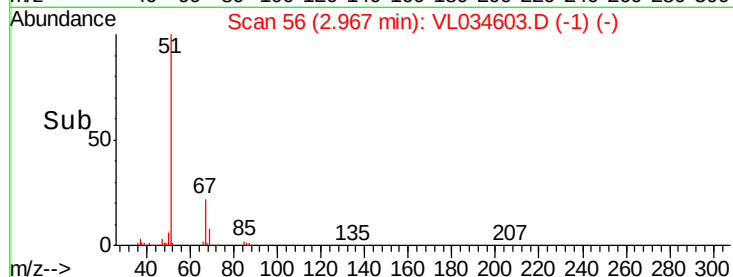
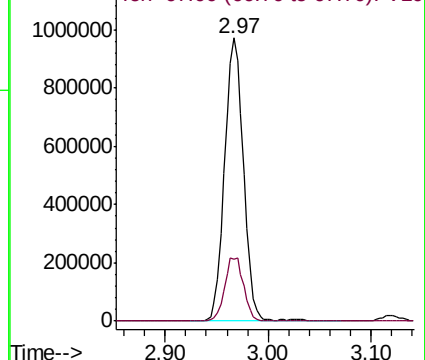
Ion Ratio Lower Upper

51 100

67 22.5 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.476 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.02 min

Lab File: VL034603.D

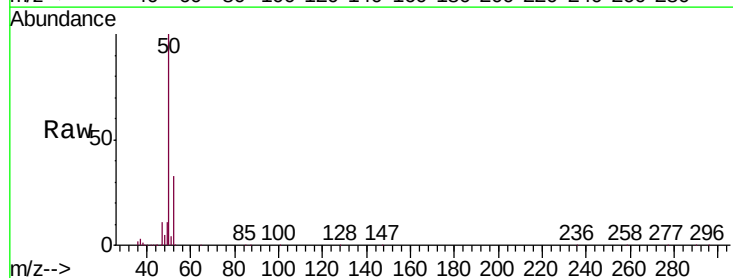
Acq: 6 Feb 2020 16:53

Tgt Ion: 50 Resp: 659601

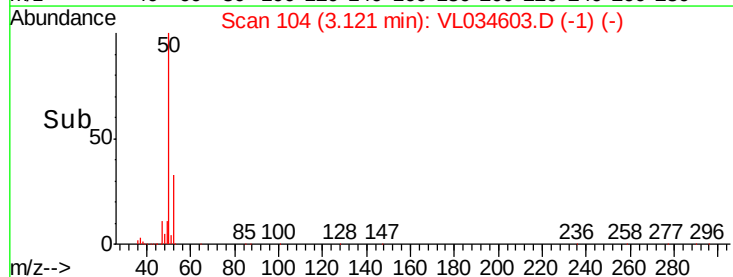
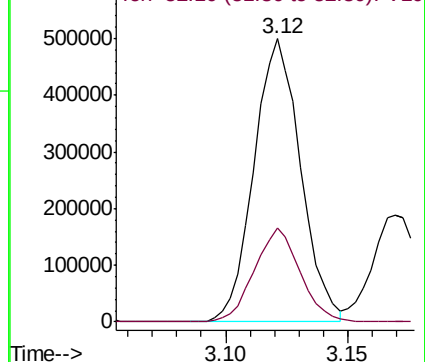
Ion Ratio Lower Upper

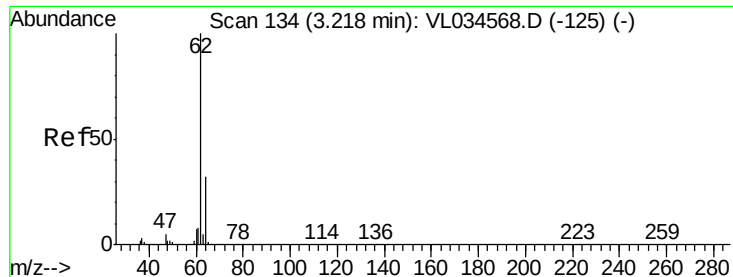
50 100

52 33.3 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.714 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

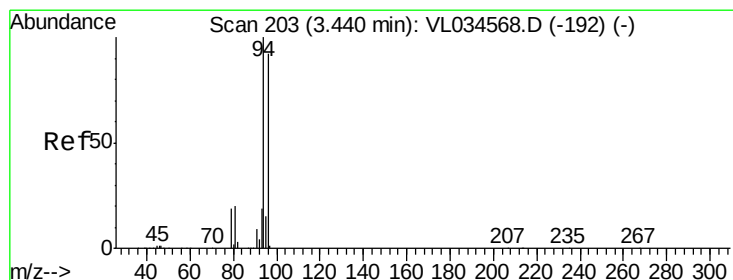
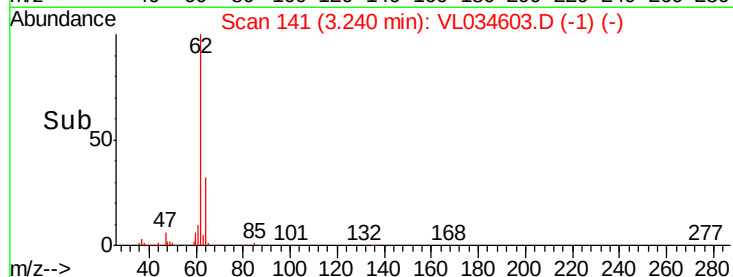
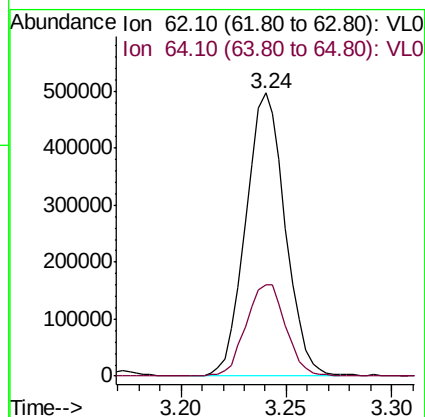
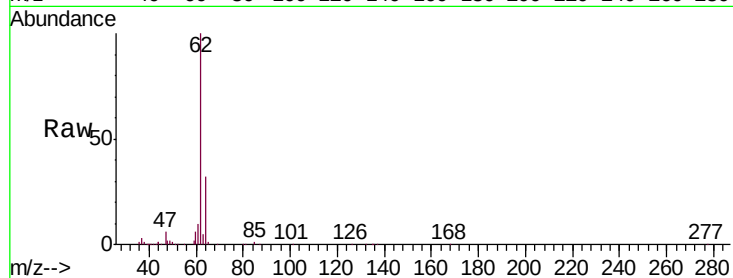
VL0206ABS01

Tgt Ion: 62 Resp: 647717

Ion Ratio Lower Upper

62 100

64 32.3 25.8 38.6



#6

Bromomethane

Concen: 10.064 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.02 min

Lab File: VL034603.D

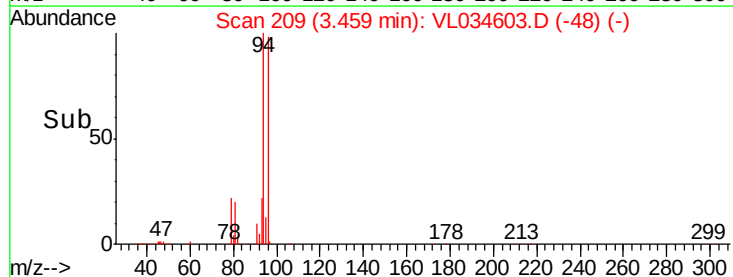
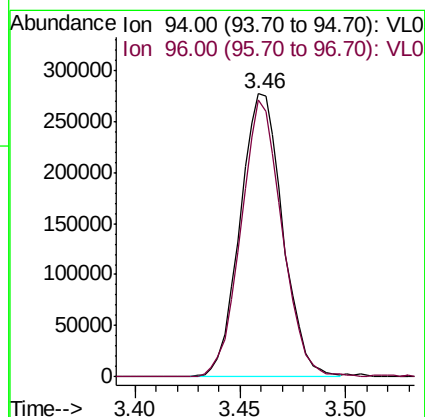
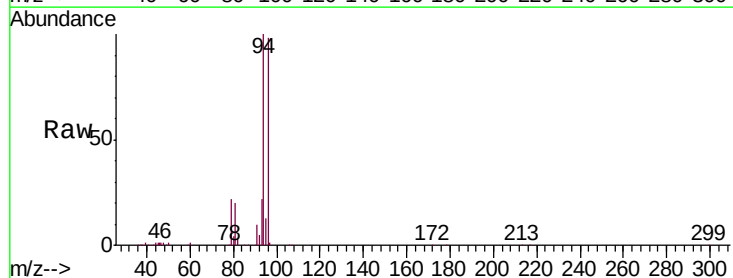
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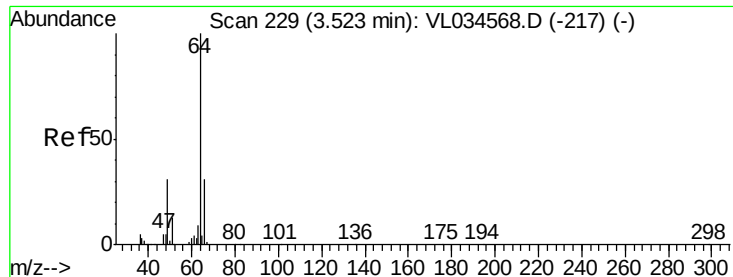
Tgt Ion: 94 Resp: 389116

Ion Ratio Lower Upper

94 100

96 97.9 73.8 110.8





#7

Chloroethane

Concen: 8.909 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

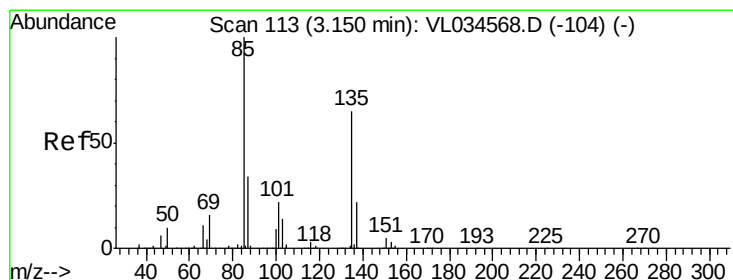
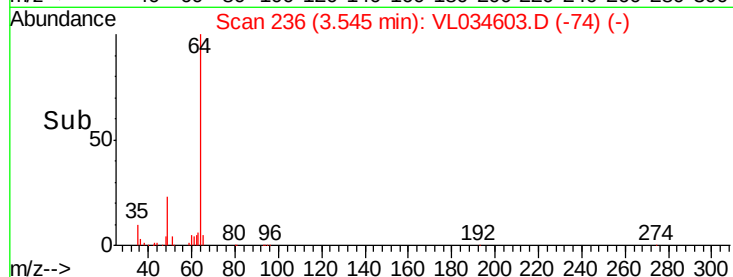
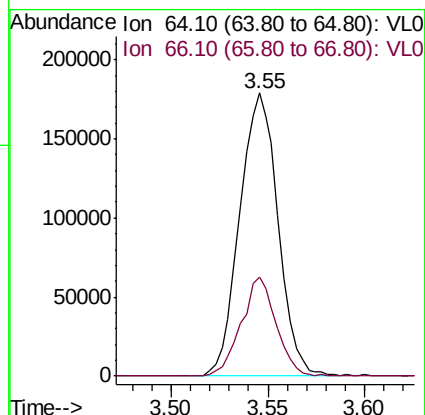
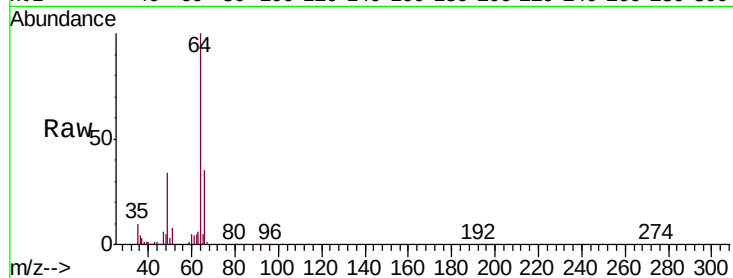
VL0206ABS01

Tgt Ion: 64 Resp: 246269

Ion Ratio Lower Upper

64 100

66 35.1 25.0 37.4



#8

Dichlorotetrafluoroethane

Concen: 8.972 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.02 min

Lab File: VL034603.D

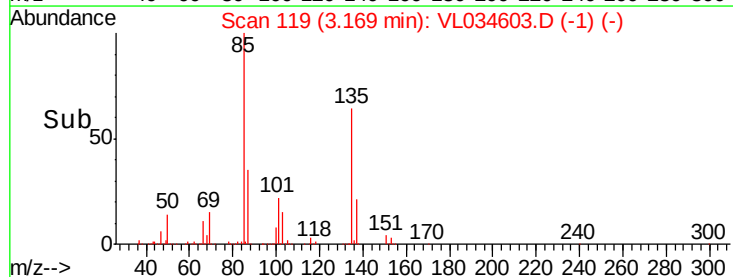
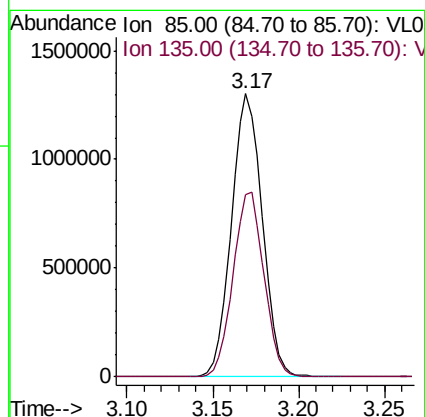
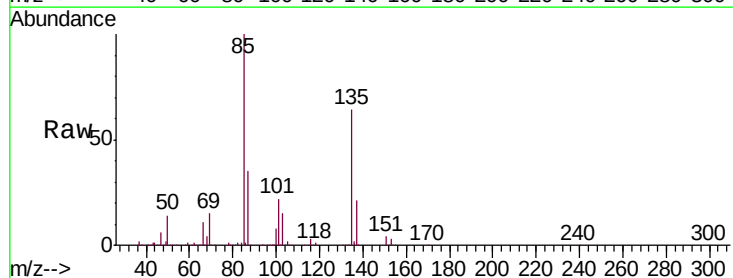
Acq: 6 Feb 2020 16:53

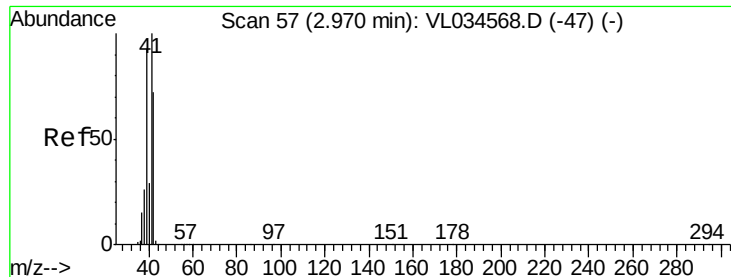
Tgt Ion: 85 Resp: 1625772

Ion Ratio Lower Upper

85 100

135 65.7 52.2 78.2





#9

Propene

Concen: 8.596 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

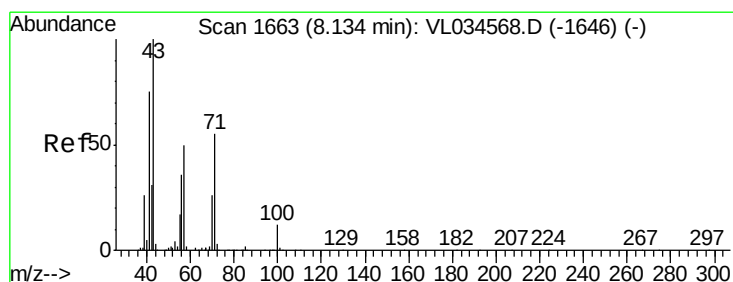
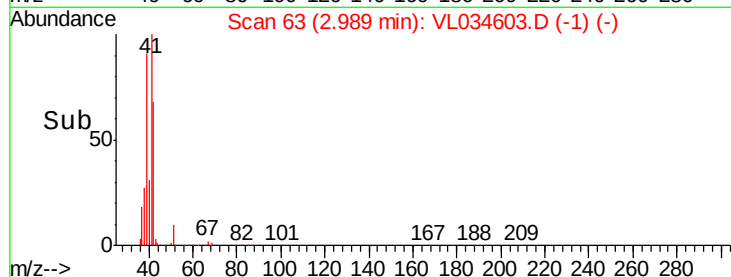
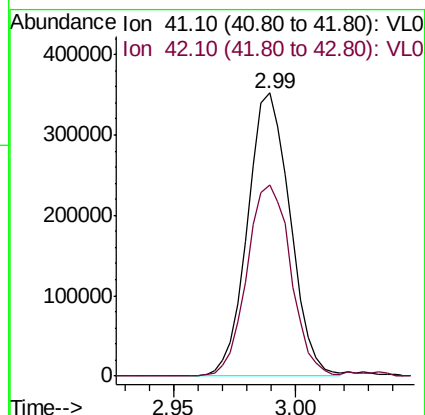
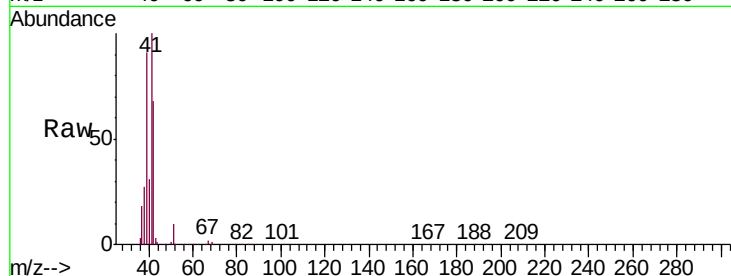
VL0206ABS01

Tgt Ion: 41 Resp: 425696

Ion Ratio Lower Upper

41 100

42 70.7 57.0 85.4



#10

Heptane

Concen: 9.565 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. 0.03 min

Lab File: VL034603.D

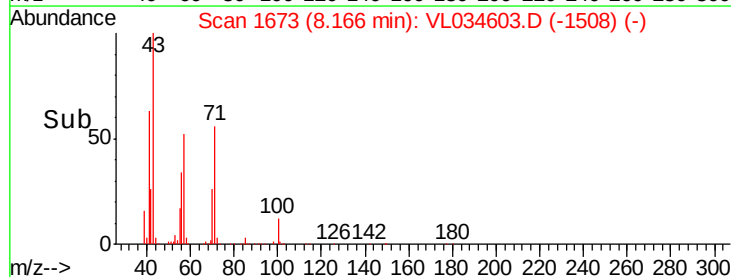
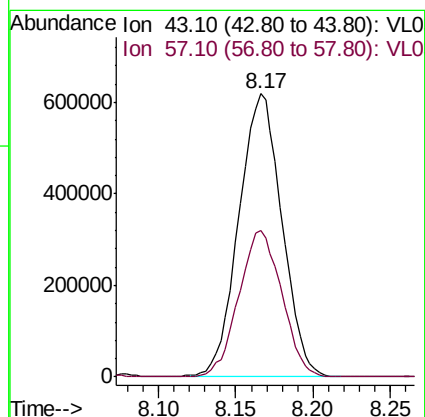
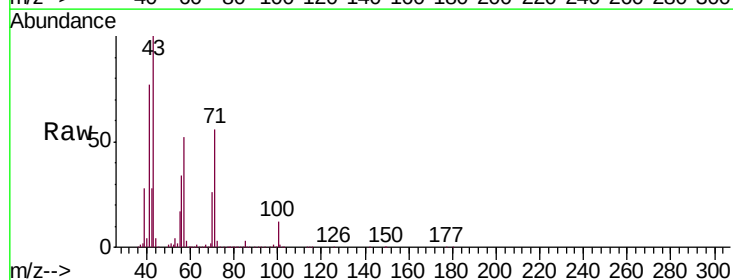
Acq: 6 Feb 2020 16:53

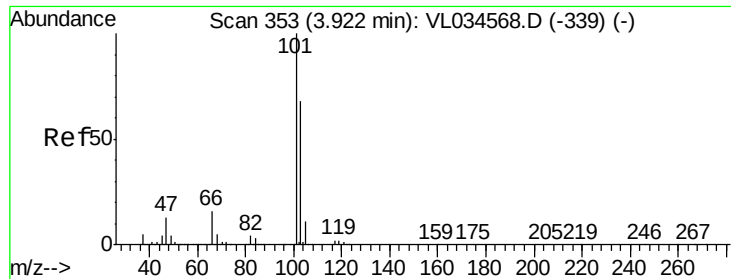
Tgt Ion: 43 Resp: 1192004

Ion Ratio Lower Upper

43 100

57 51.6 41.2 61.8

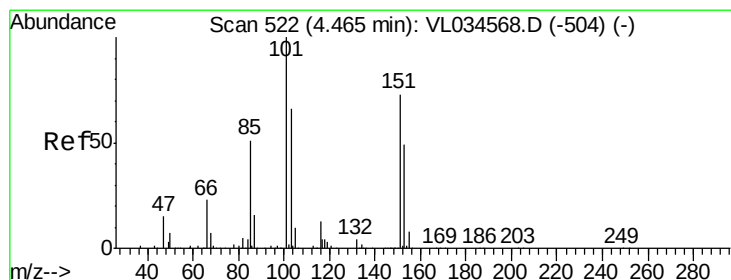
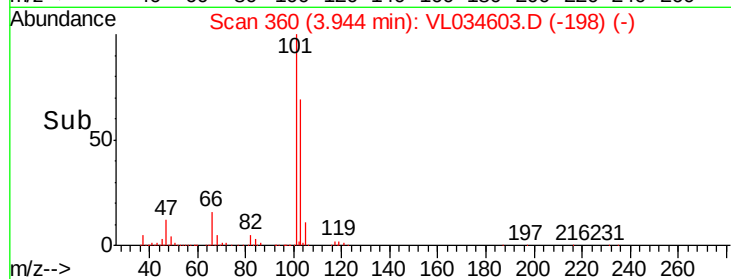
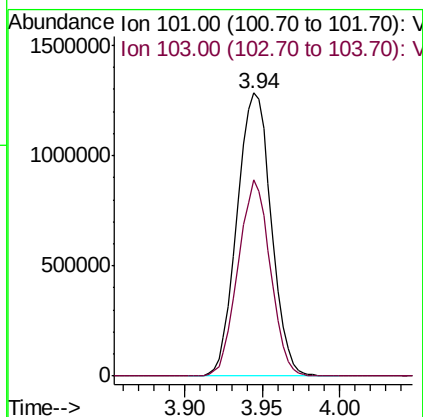
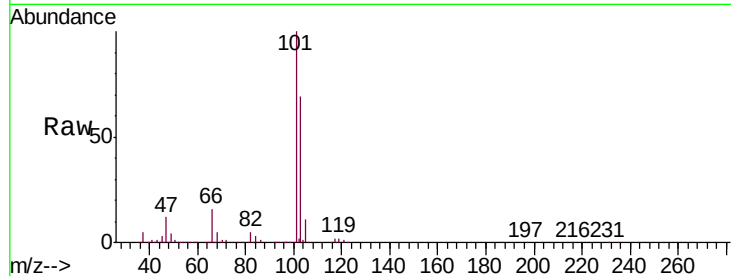




#11
 Trichlorofluoromethane
 Concen: 9.371 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.02 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

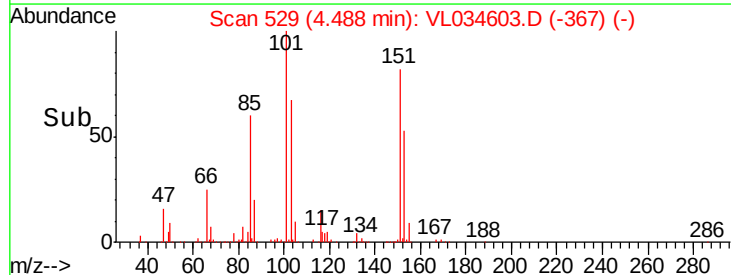
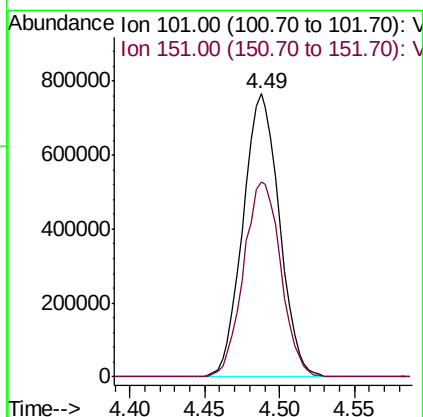
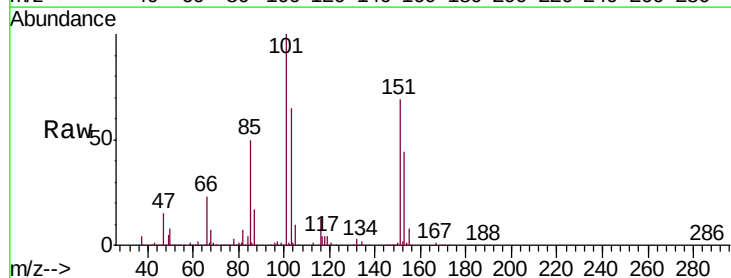
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0206ABS01

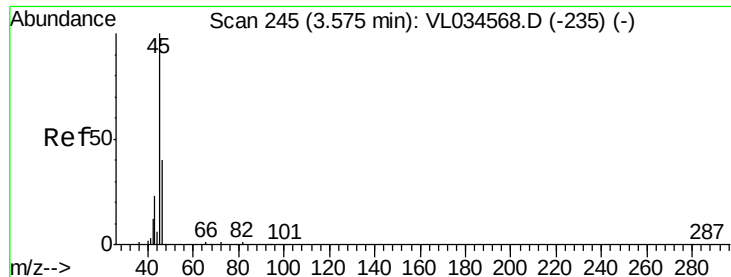
Tgt Ion:101 Resp: 1973474
 Ion Ratio Lower Upper
 101 100
 103 69.3 54.4 81.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.445 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Tgt Ion:101 Resp: 1297882
 Ion Ratio Lower Upper
 101 100
 151 70.7 57.0 85.6





#13

Ethanol

Concen: 8.507 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

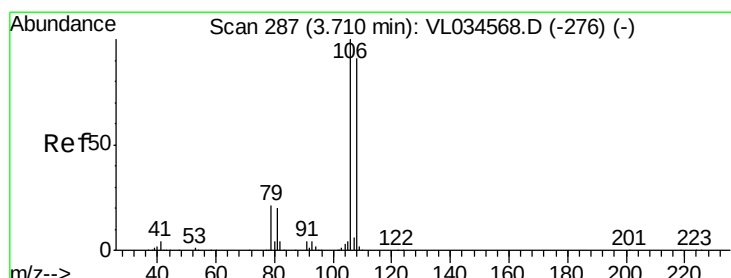
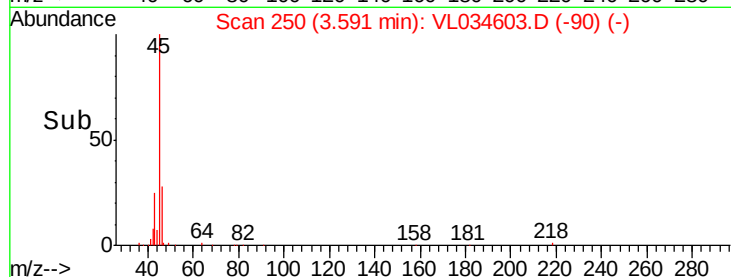
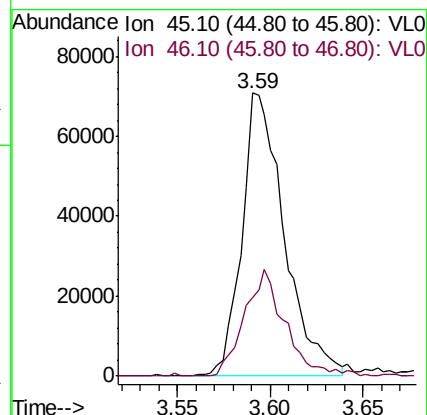
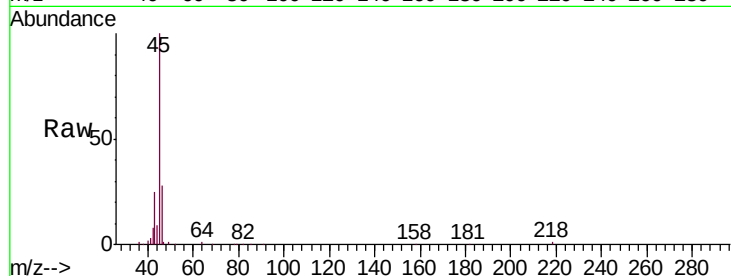
VL0206ABS01

Tgt Ion: 45 Resp: 112835

Ion Ratio Lower Upper

45 100

46 36.4 14.8 59.2



#14

Bromoethene

Concen: 9.545 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

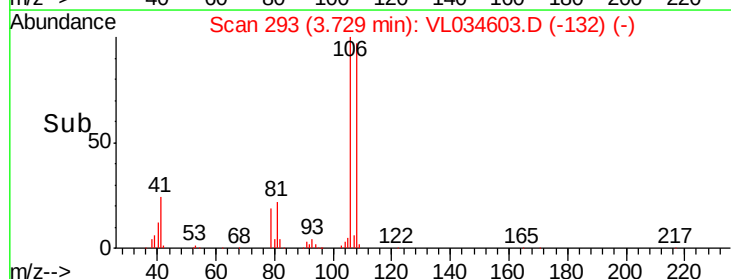
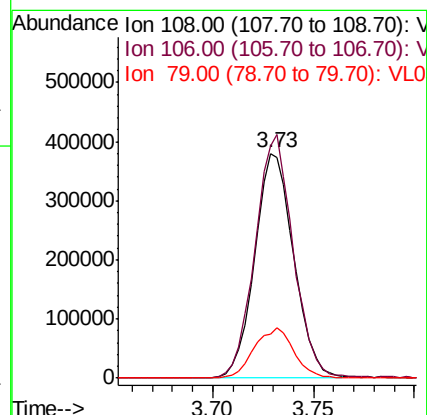
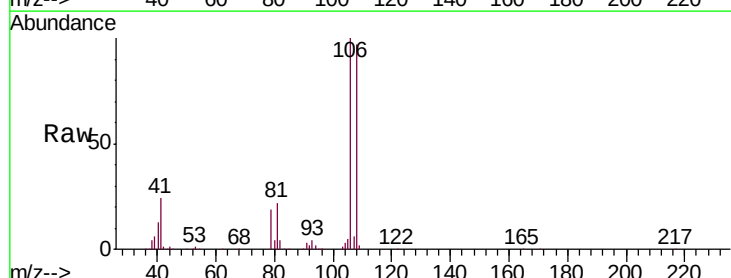
Tgt Ion: 108 Resp: 514480

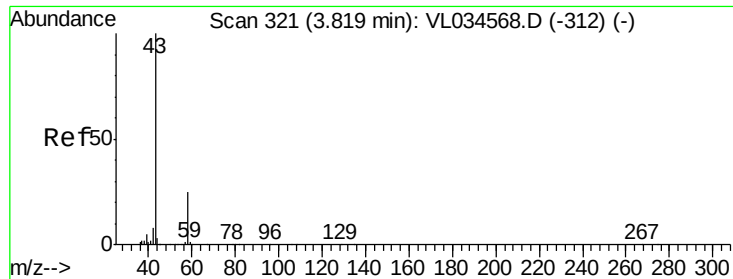
Ion Ratio Lower Upper

108 100

106 106.2 84.6 127.0

79 23.2 18.2 27.2





#15

Acetone

Concen: 9.646 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

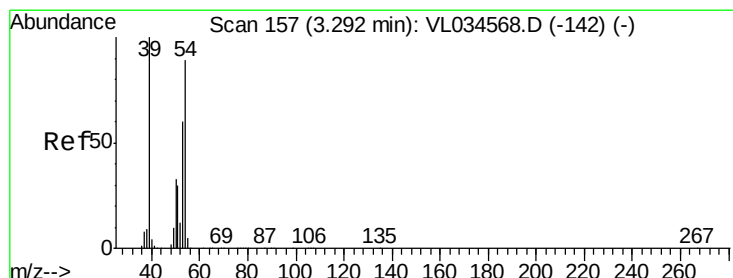
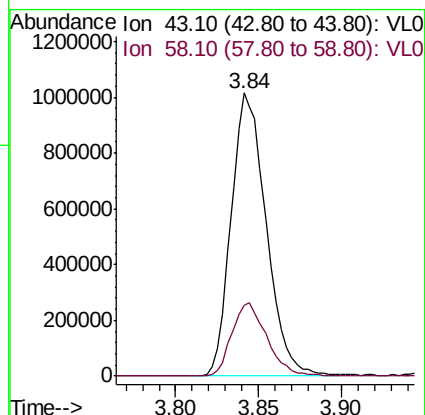
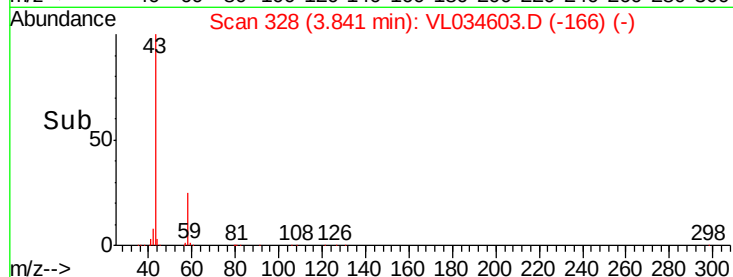
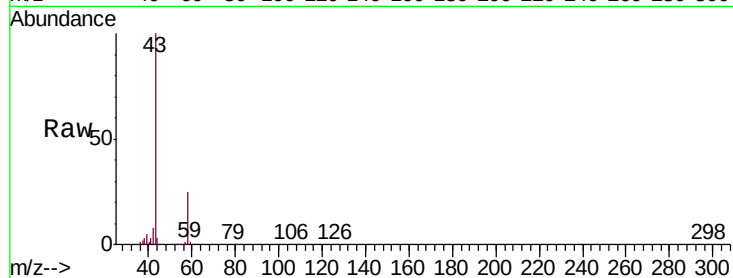
VL0206ABS01

Tgt Ion: 43 Resp: 1492251

Ion Ratio Lower Upper

43 100

58 26.2 20.3 30.5



#16

1,3-Butadiene

Concen: 9.576 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.02 min

Lab File: VL034603.D

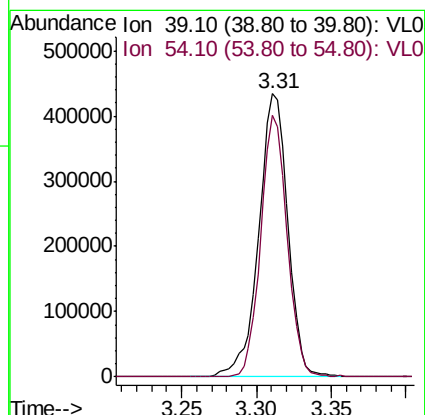
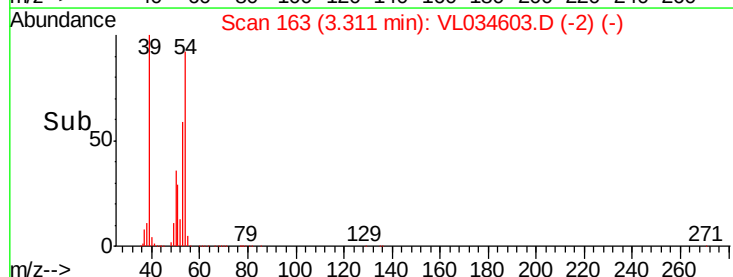
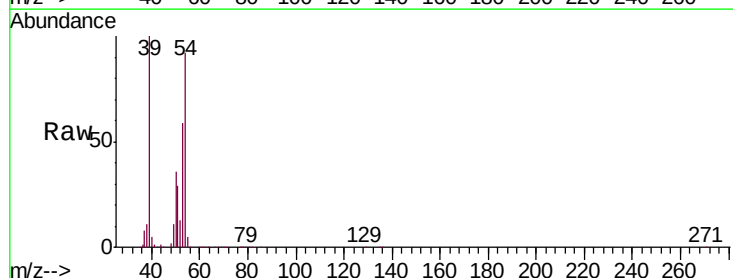
Acq: 6 Feb 2020 16:53

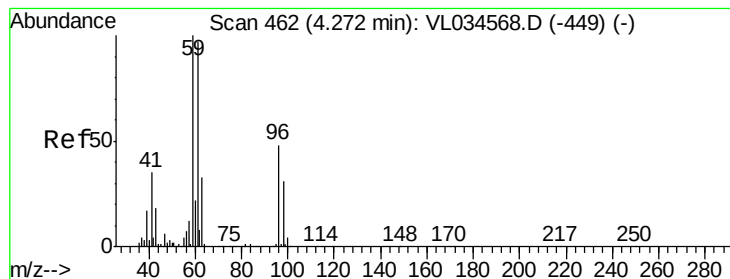
Tgt Ion: 39 Resp: 588248

Ion Ratio Lower Upper

39 100

54 83.9 66.7 100.1



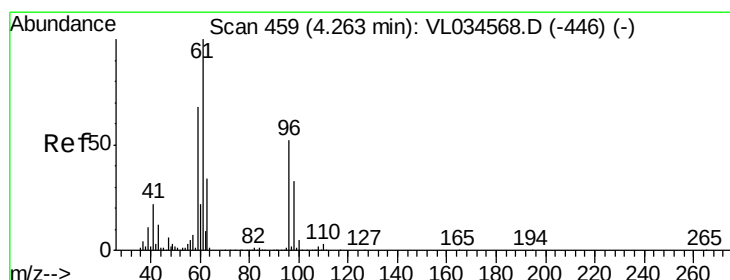
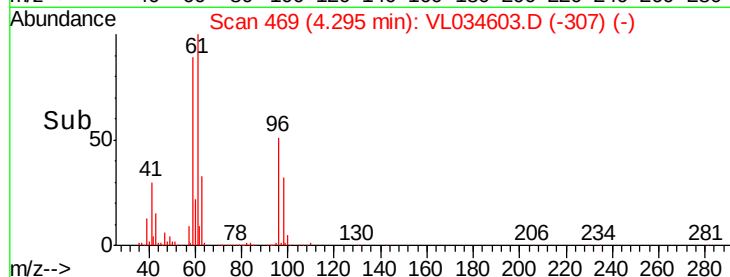
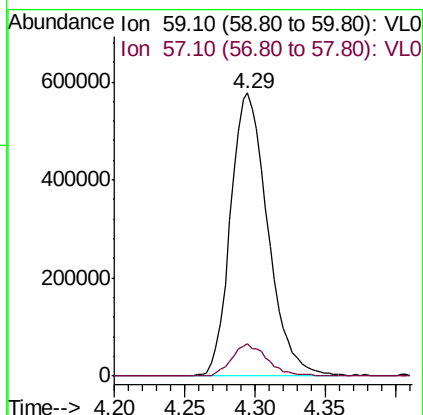
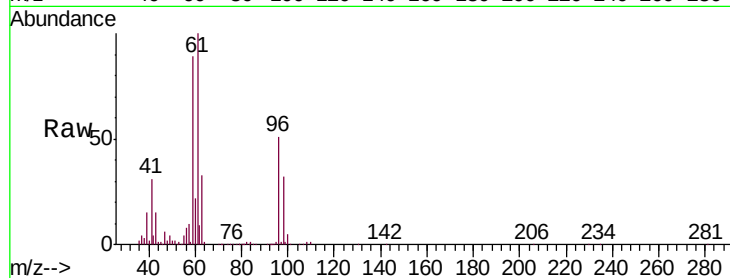


#17

tert-Butyl alcohol
Concen: 9.373 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.02 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

Instrument :
MSVOA_L
ClientSampleId :
VL0206ABS01

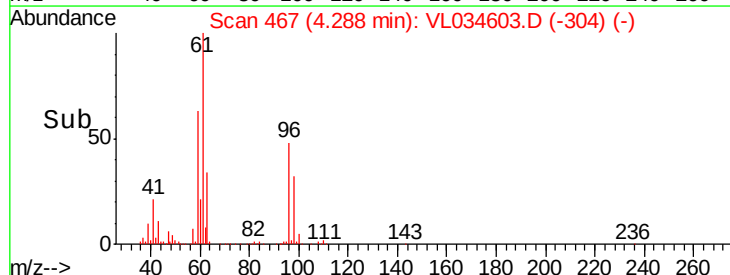
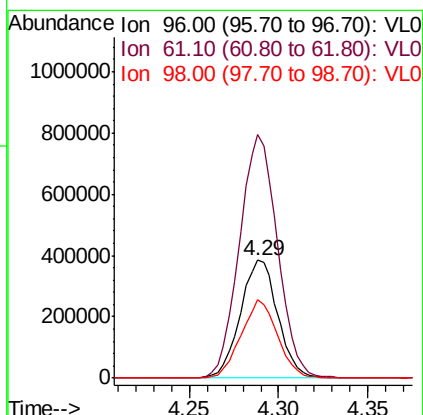
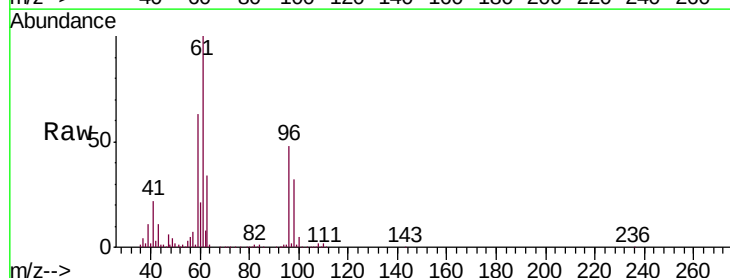
Tgt Ion: 59 Resp: 1066375
Ion Ratio Lower Upper
59 100
57 11.0 8.7 13.1

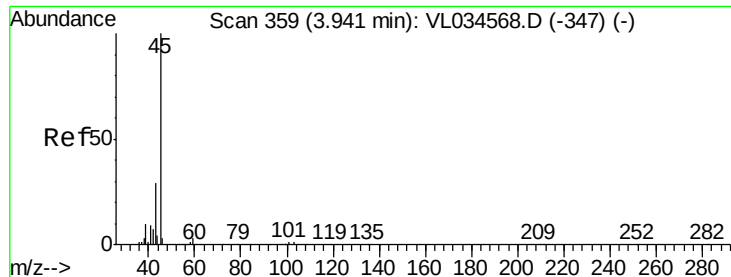


#18

1,1-Dichloroethene
Concen: 9.738 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

Tgt Ion: 96 Resp: 564866
Ion Ratio Lower Upper
96 100
61 206.5 154.5 231.7
98 66.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 9.103 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.03 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

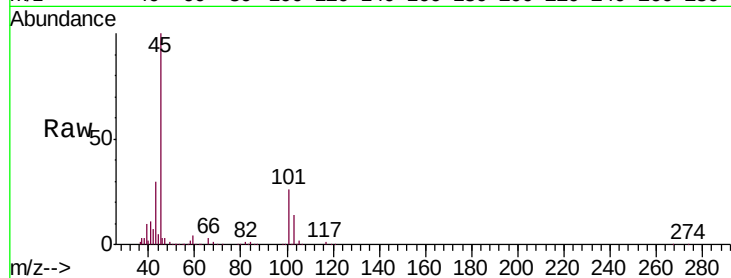
VL0206ABS01

Tgt Ion: 45 Resp: 821812

Ion Ratio Lower Upper

45 100

58 2.2 1.7 2.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

500000

400000

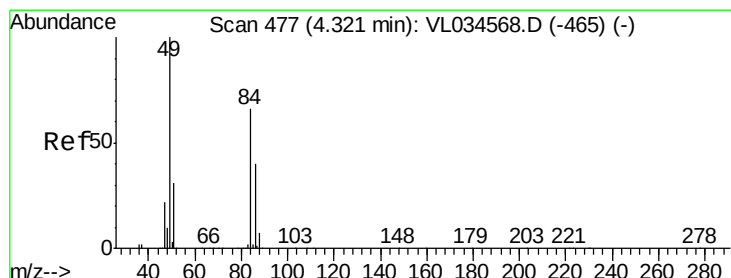
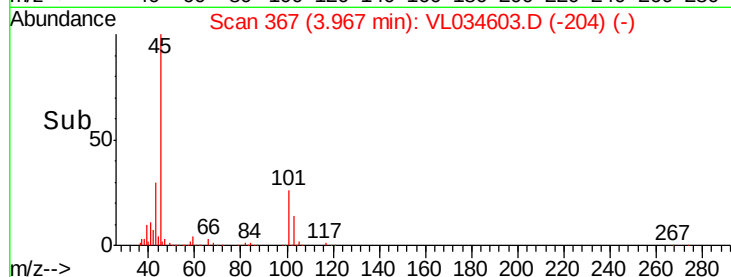
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.330 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.03 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Tgt Ion: 84 Resp: 490692

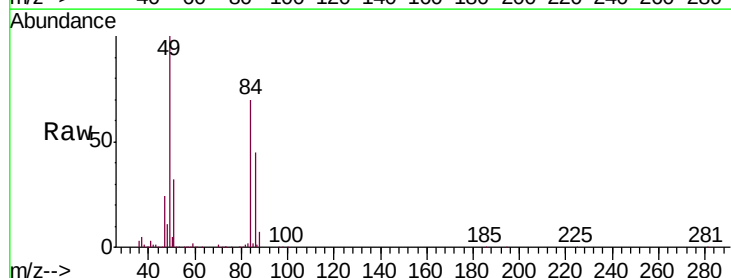
Ion Ratio Lower Upper

84 100

49 141.6 122.4 183.6

51 45.4 38.6 57.8

86 63.8 49.0 73.6



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

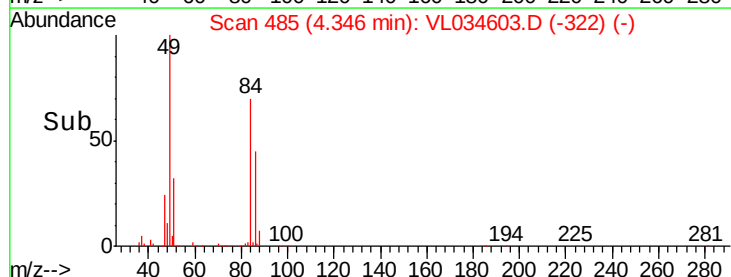
600000

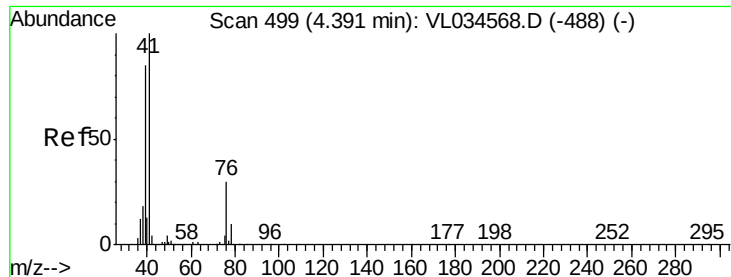
400000

200000

0

Time-->

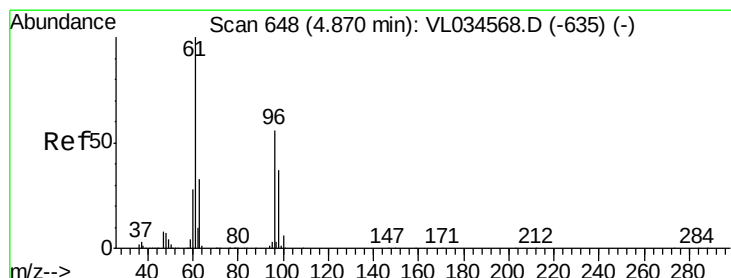
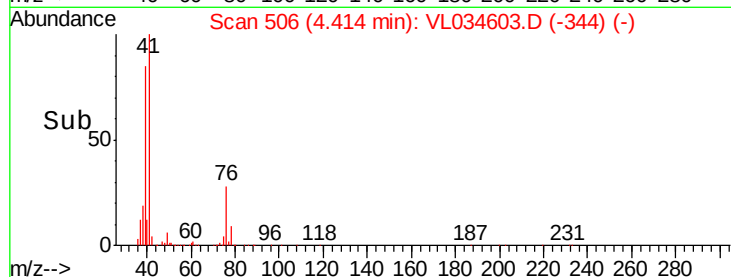
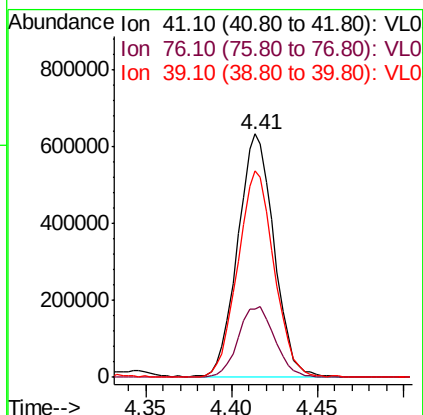
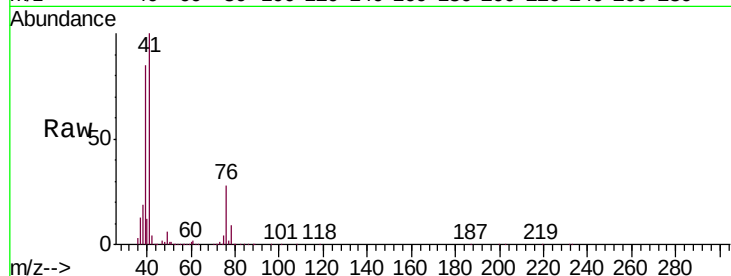




#21
 Allyl Chloride
 Concen: 9.561 ppbv
 RT: 4.41 min Scan# 506
 Delta R.T. 0.02 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

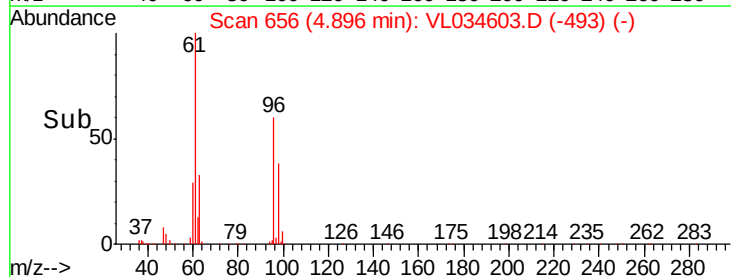
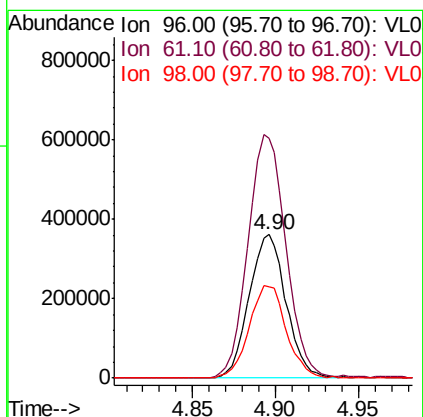
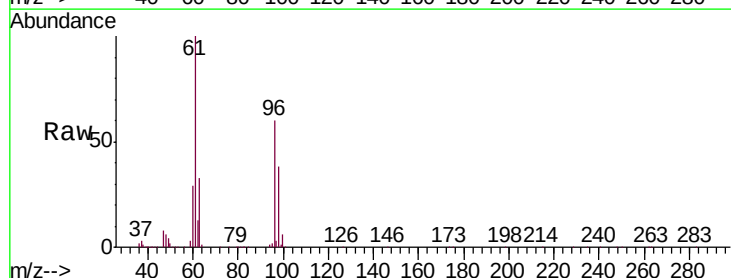
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0206ABS01

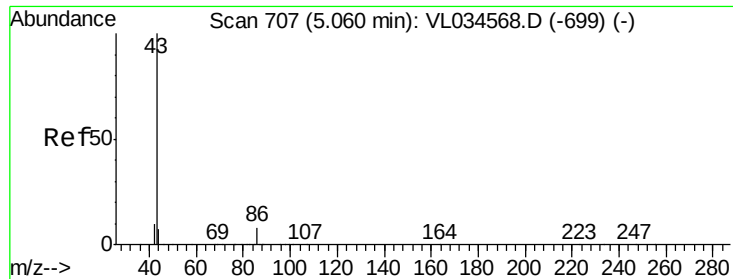
Tgt Ion: 41 Resp: 918600
 Ion Ratio Lower Upper
 41 100
 76 29.7 24.2 36.2
 39 85.3 68.3 102.5



#22
 trans-1,2-Dichloroethene
 Concen: 9.229 ppbv
 RT: 4.90 min Scan# 656
 Delta R.T. 0.03 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Tgt Ion: 96 Resp: 560624
 Ion Ratio Lower Upper
 96 100
 61 167.5 141.9 212.9
 98 63.5 53.1 79.7





#23

Vinyl Acetate

Concen: 10.116 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.03 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

VL0206ABS01

Tgt Ion: 43 Resp: 1785391

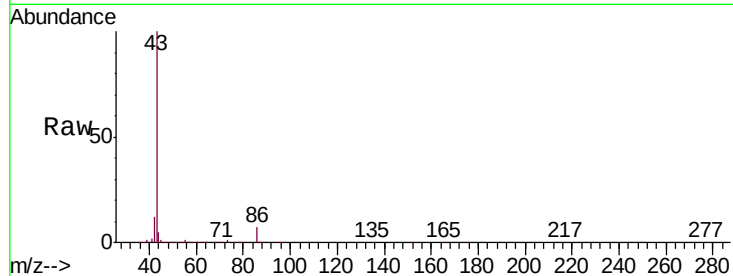
Ion Ratio Lower Upper

43 100

86 7.4 5.9 8.9

42 12.1 8.8 13.2

44 5.3 5.0 7.6

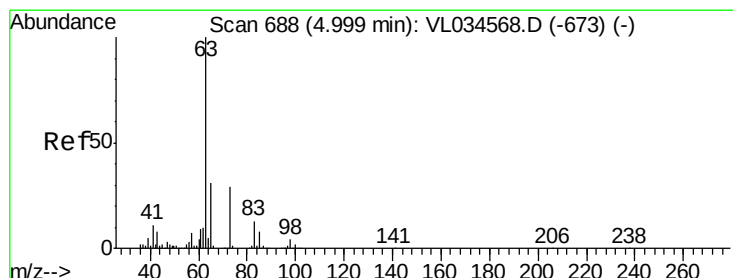
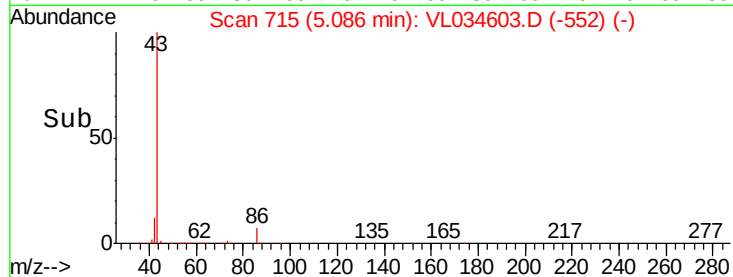
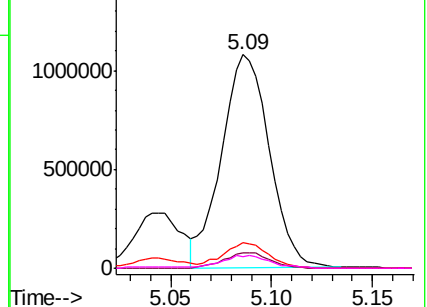


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.182 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

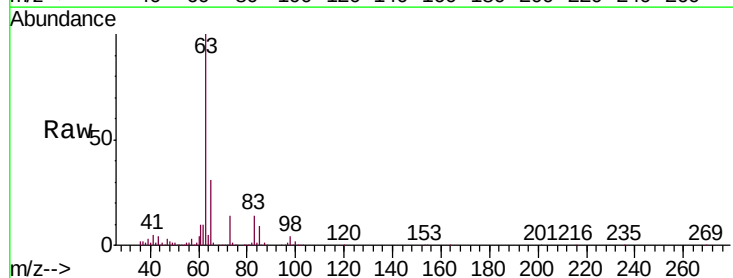
Tgt Ion: 63 Resp: 1352990

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

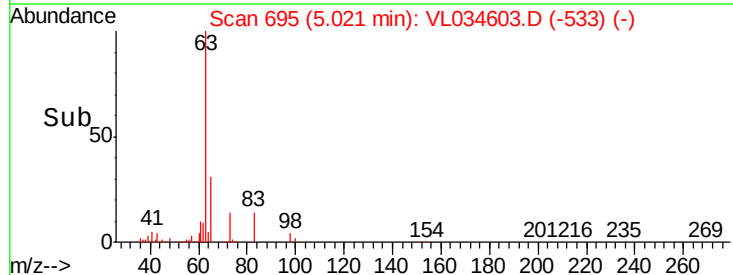
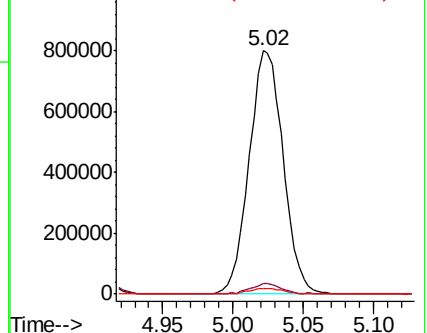
100 2.4 1.1 3.5

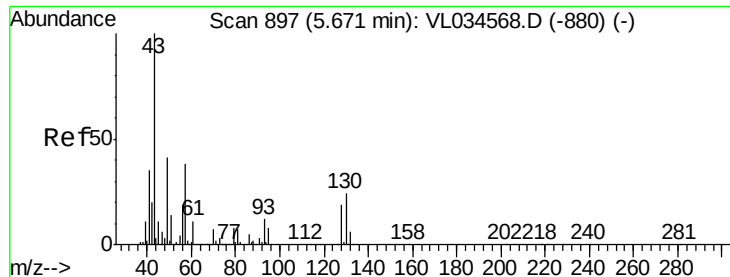


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

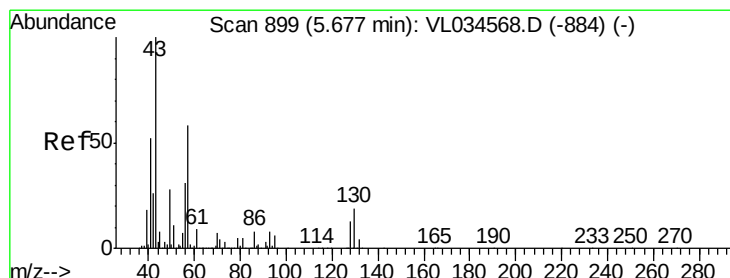
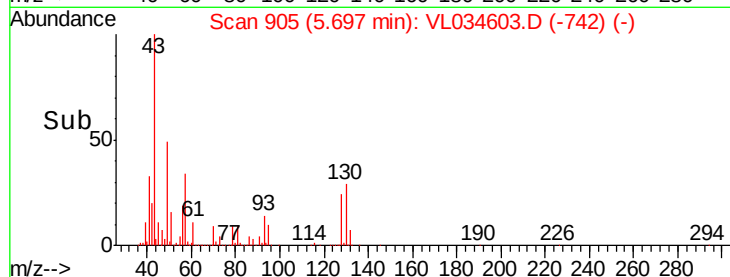
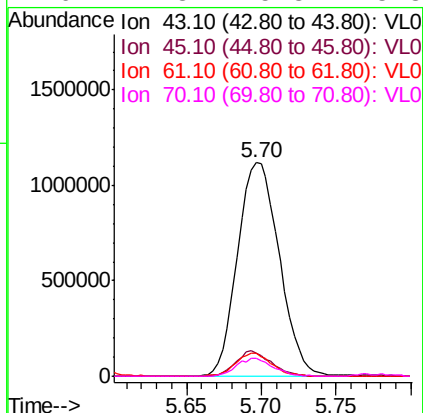
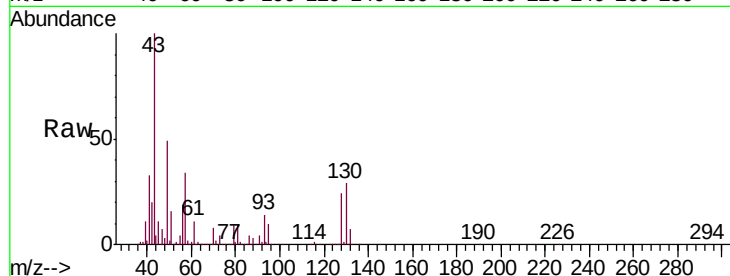




#25
Ethyl Acetate
Concen: 8.706 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

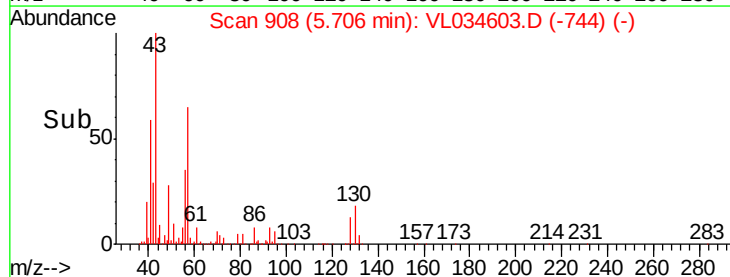
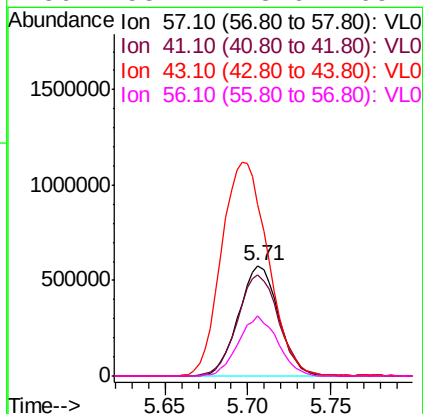
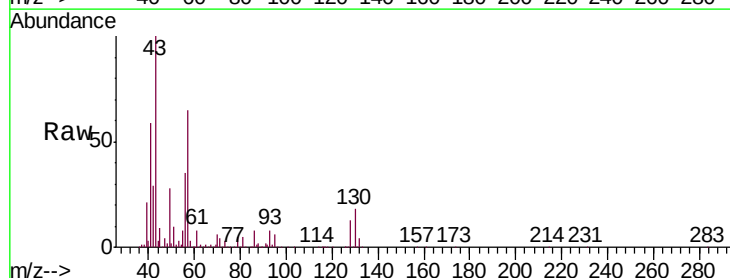
Instrument :
MSVOA_L
ClientSampleId :
VL0206ABS01

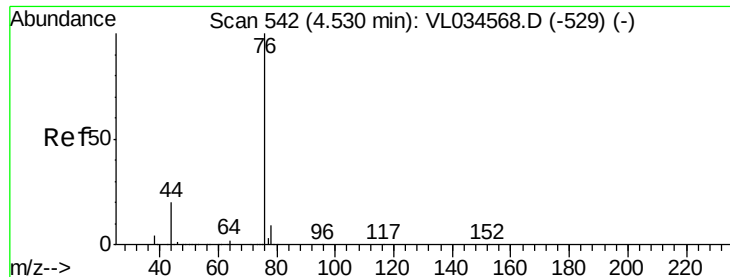
Tgt Ion: 43 Resp: 2180384
Ion Ratio Lower Upper
43 100
45 10.0 8.5 12.7
61 9.6 7.8 11.6
70 7.3 5.8 8.8



#26
Hexane
Concen: 9.206 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

Tgt Ion: 57 Resp: 965756
Ion Ratio Lower Upper
57 100
41 96.0 76.2 114.2
43 226.7 189.9 284.9
56 53.7 43.6 65.4





#27

Carbon Disulfide

Concen: 10.104 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.02 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

VL0206ABS01

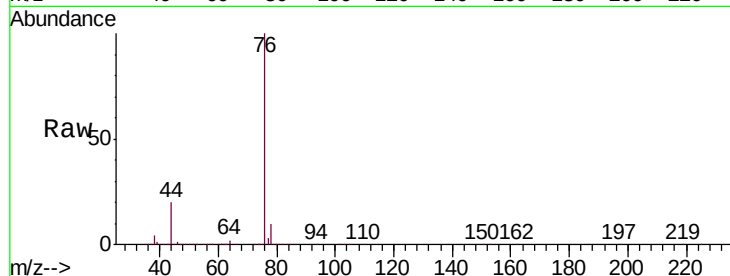
Tgt Ion: 76 Resp: 1430118

Ion Ratio Lower Upper

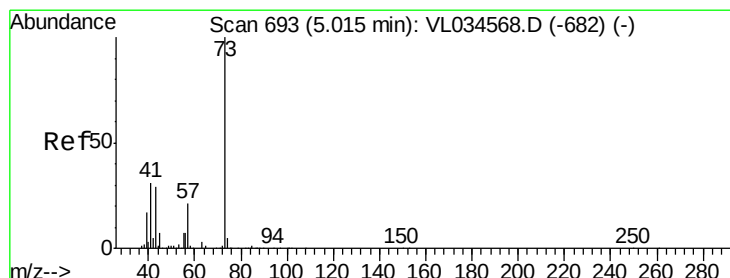
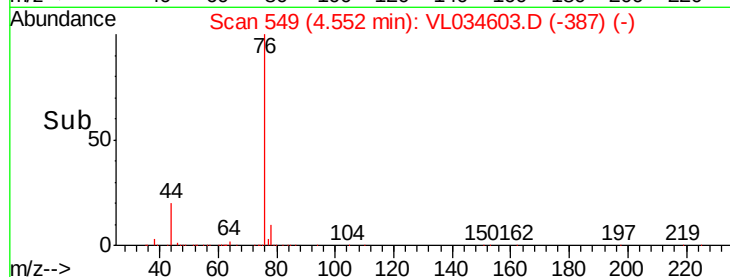
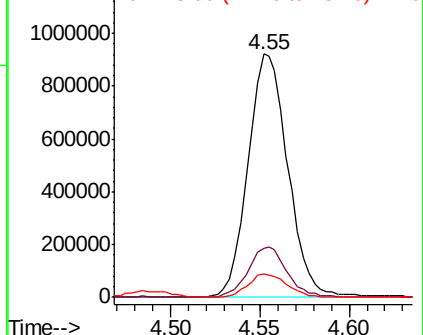
76 100

44 19.9 16.3 24.5

78 9.6 7.4 11.2



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



#28

Methyl tert-Butyl Ether

Concen: 9.582 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.03 min

Lab File: VL034603.D

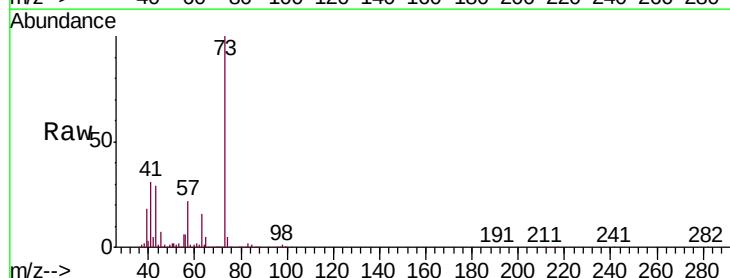
Acq: 6 Feb 2020 16:53

Tgt Ion: 73 Resp: 1714255

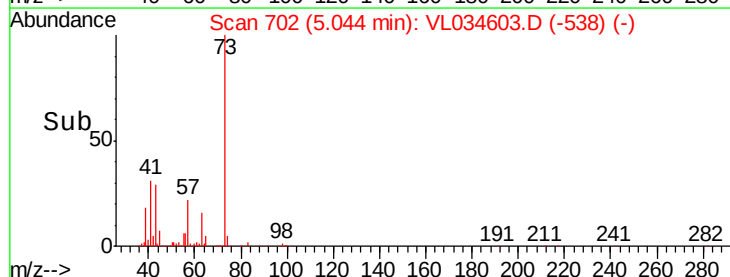
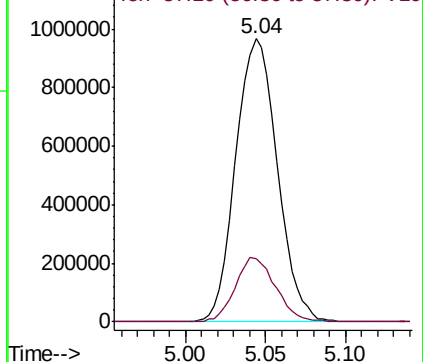
Ion Ratio Lower Upper

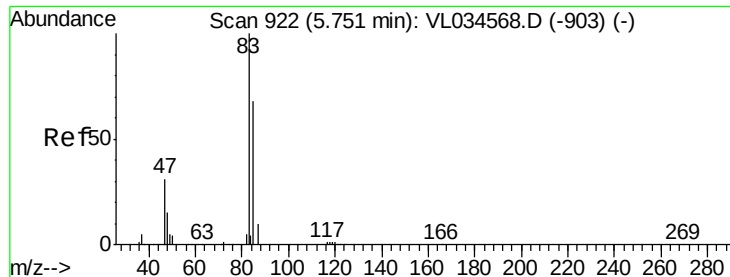
73 100

57 22.2 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

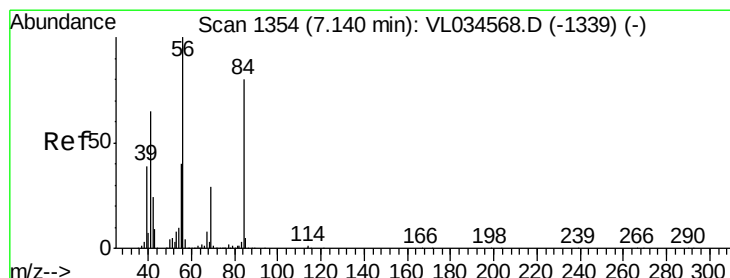
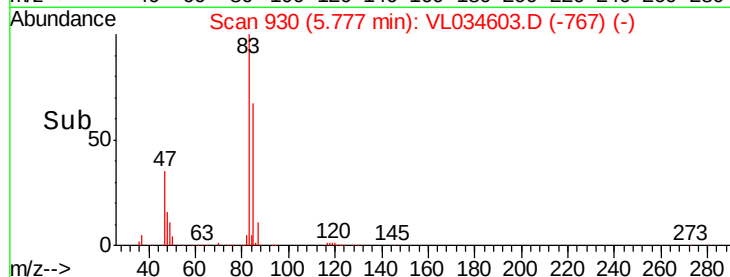
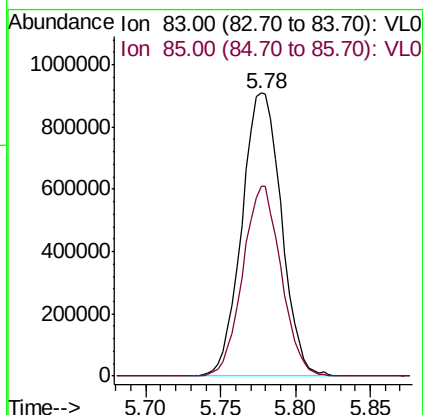
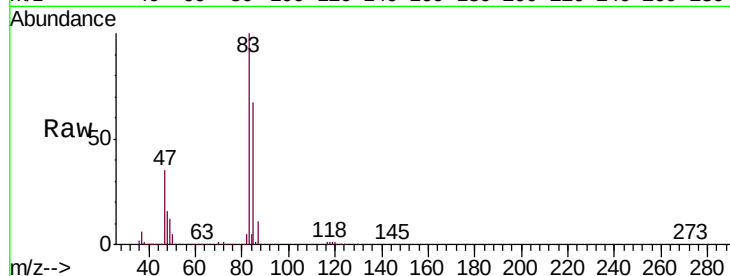




#29
Chloroform
Concen: 9.033 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

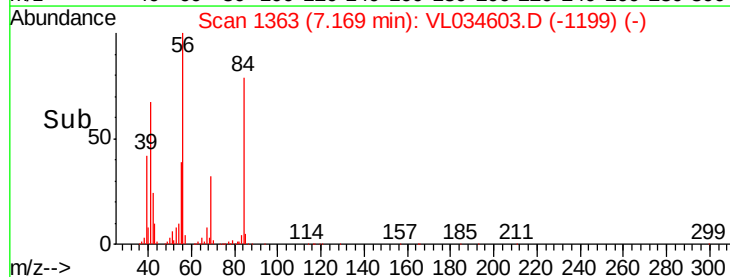
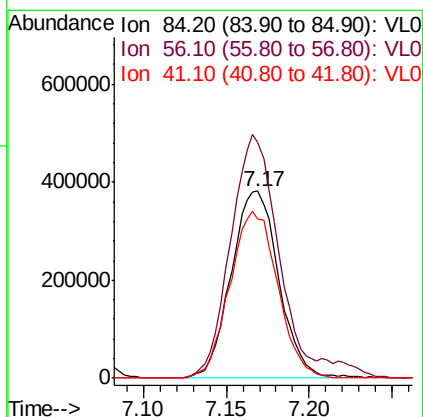
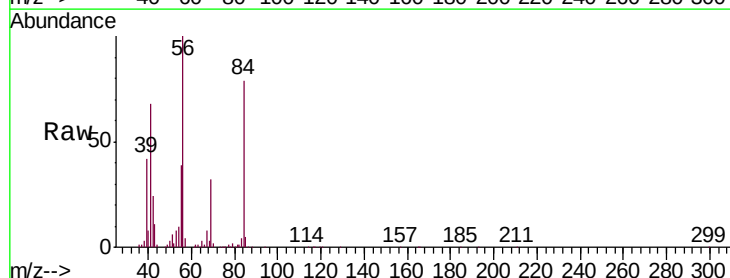
Instrument :
MSVOA_L
ClientSampleId :
VL0206ABS01

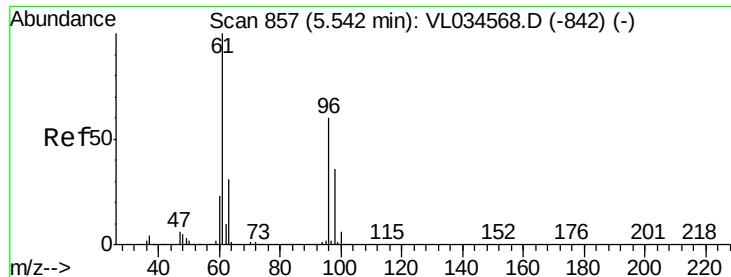
Tgt Ion: 83 Resp: 1675572
Ion Ratio Lower Upper
83 100
85 67.2 54.0 81.0



#30
Cyclohexane
Concen: 9.794 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

Tgt Ion: 84 Resp: 761357
Ion Ratio Lower Upper
84 100
56 136.7 110.5 165.7
41 89.9 71.9 107.9



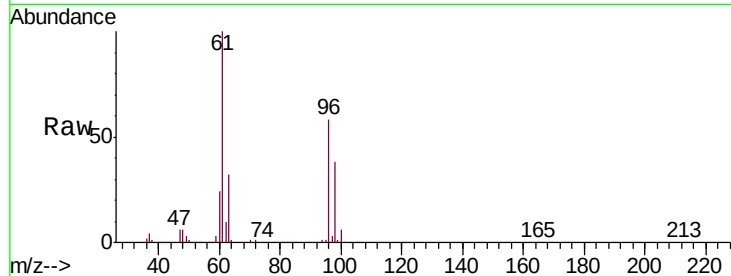


#31

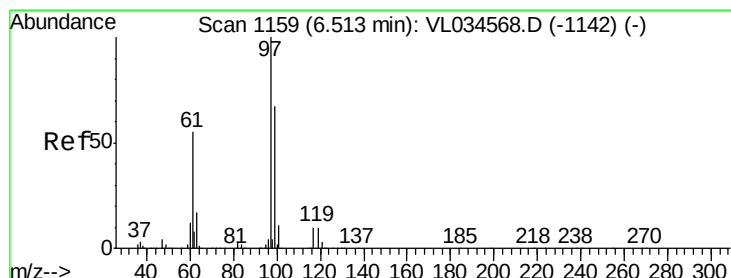
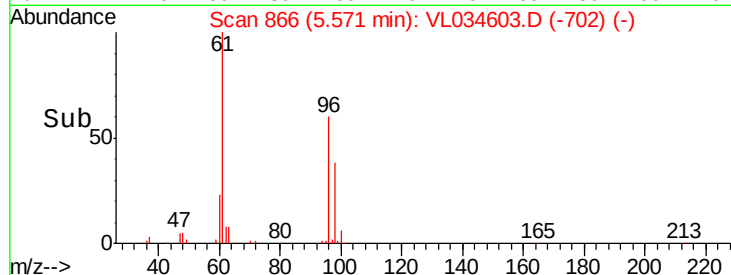
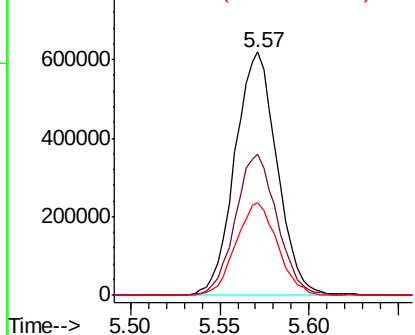
cis-1,2-Dichloroethene
 Concen: 9.287 ppbv
 RT: 5.57 min Scan# 866
 Delta R.T. 0.03 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0206ABS01

Tgt Ion: 61 Resp: 1012139
 Ion Ratio Lower Upper
 61 100
 96 58.3 48.0 72.0
 98 38.2 28.6 43.0



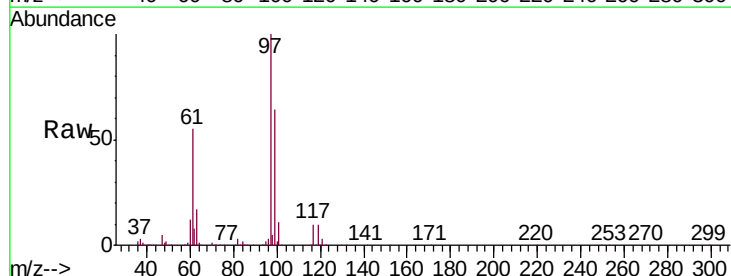
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



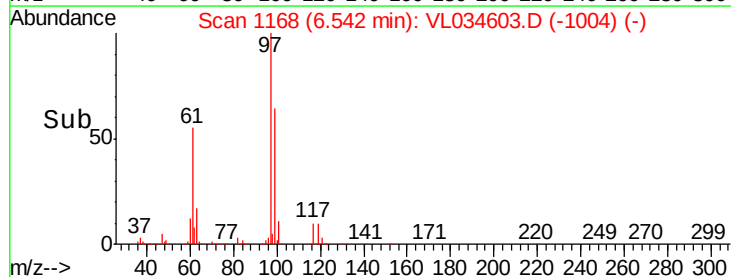
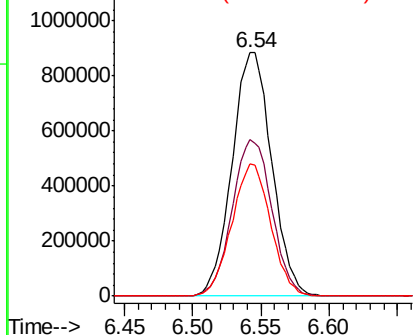
#32

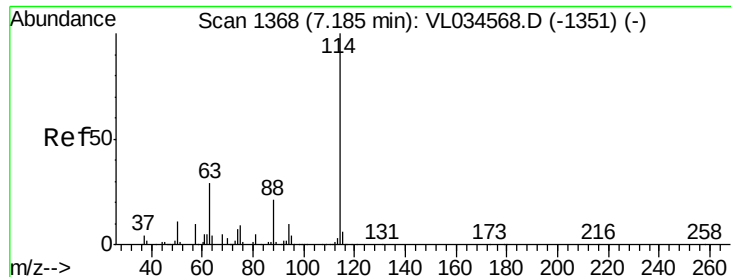
1,1,1-Trichloroethane
 Concen: 8.932 ppbv
 RT: 6.54 min Scan# 1168
 Delta R.T. 0.03 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Tgt Ion: 97 Resp: 1778884
 Ion Ratio Lower Upper
 97 100
 99 64.8 52.2 78.2
 61 53.7 43.0 64.4



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

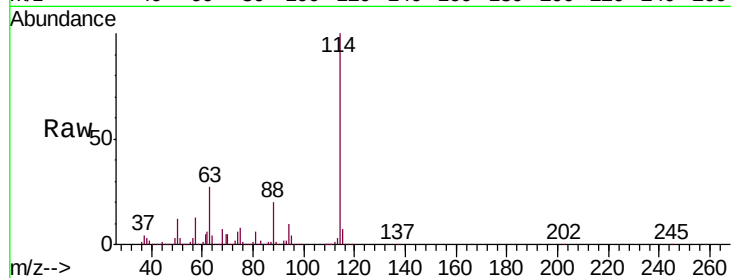




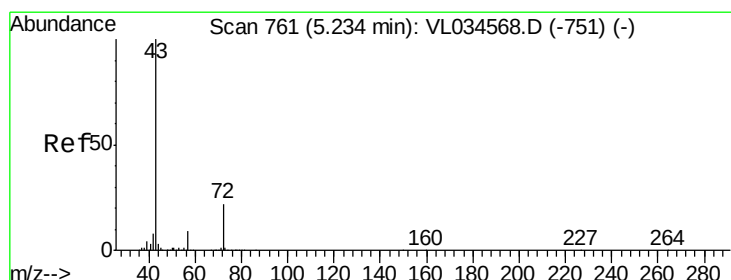
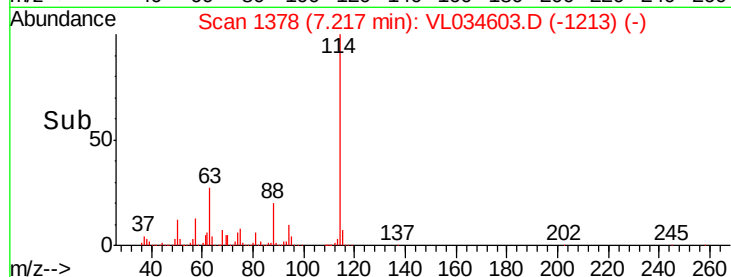
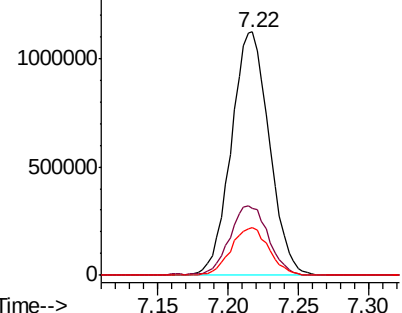
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. 0.03 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Instrument :
 MSVOA_L
 ClientSampled :
 VL0206ABS01

Tgt Ion: 114 Resp: 2114389
 Ion Ratio Lower Upper
 114 100
 63 29.6 24.1 36.1
 88 19.7 15.9 23.9

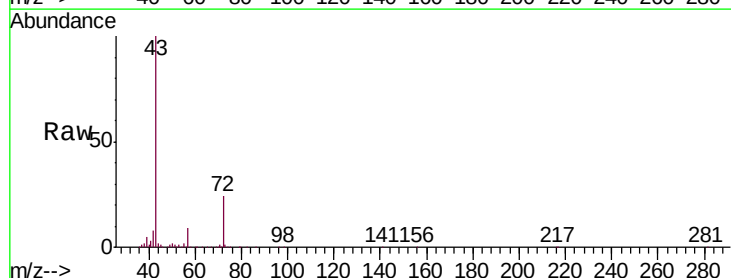


Abundance Ion 114.10 (113.80 to 114.80): VL0
 1500000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

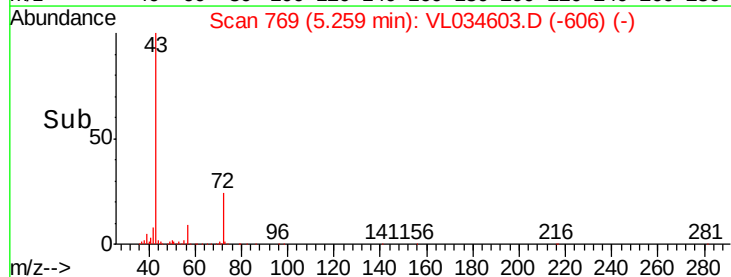
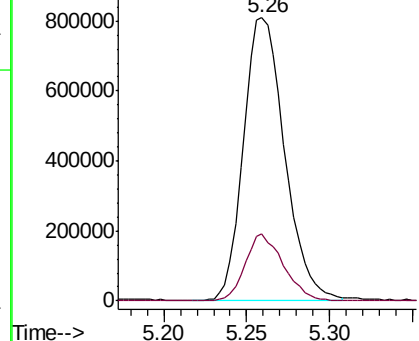


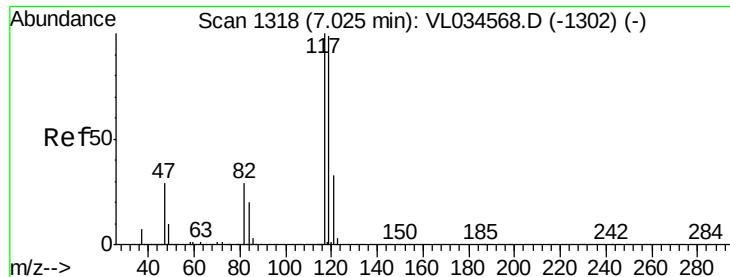
#34
 2-Butanone
 Concen: 9.084 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.03 min
 Lab File: VL034603.D
 Acq: 6 Feb 2020 16:53

Tgt Ion: 43 Resp: 1394659
 Ion Ratio Lower Upper
 43 100
 72 22.2 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 800000 Ion 72.10 (71.80 to 72.80): VL0

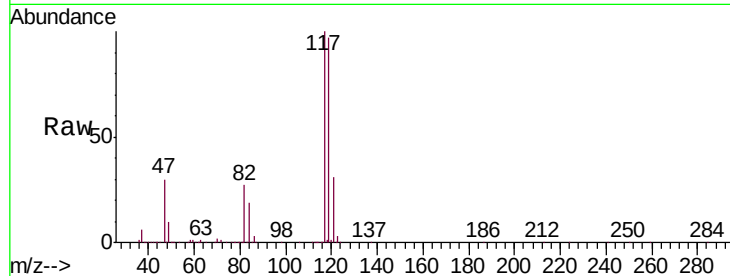




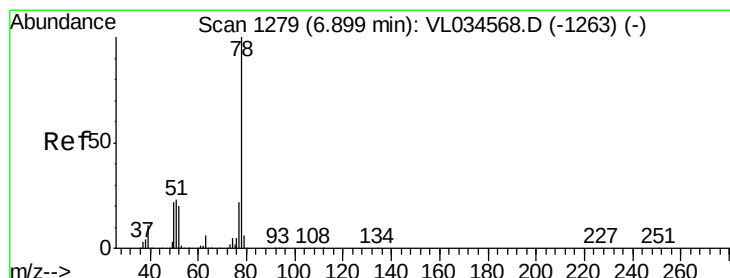
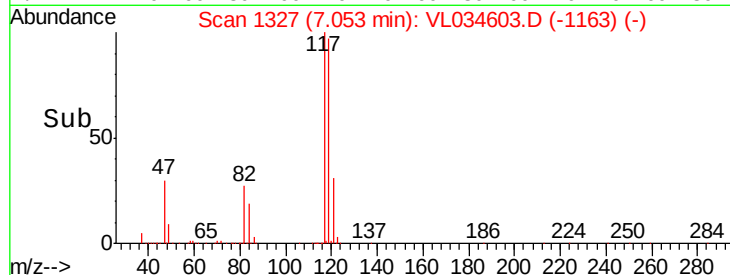
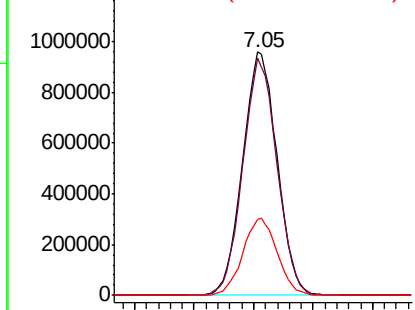
#35
Carbon Tetrachloride
Concen: 9.515 ppbv
RT: 7.05 min Scan# 1327
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

Instrument :
MSVOA_L
ClientSampleId :
VL0206ABS01

Tgt Ion:117 Resp: 1923482
Ion Ratio Lower Upper
117 100
119 97.3 79.5 119.3
121 31.4 26.2 39.2

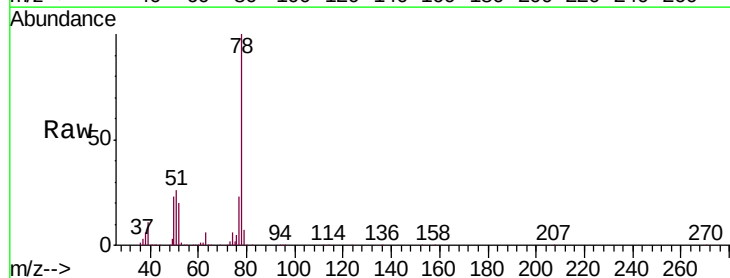


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

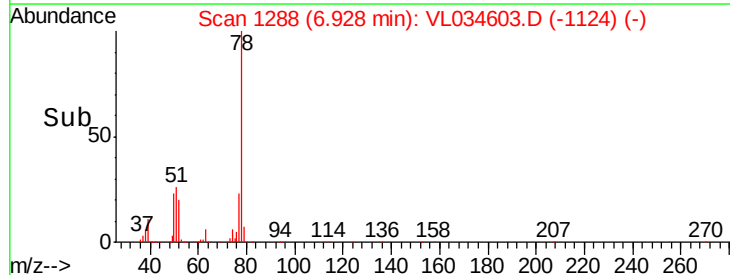
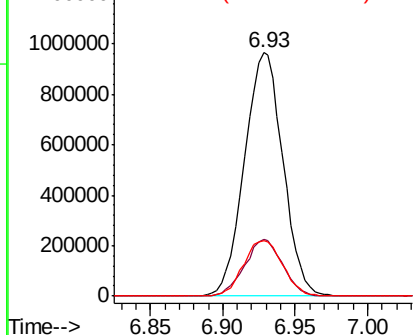


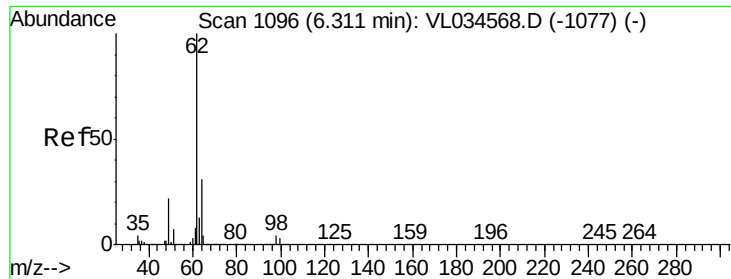
#36
Benzene
Concen: 9.493 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. 0.03 min
Lab File: VL034603.D
Acq: 6 Feb 2020 16:53

Tgt Ion: 78 Resp: 1785076
Ion Ratio Lower Upper
78 100
77 23.0 17.3 25.9
50 22.9 17.4 26.2



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: 9.385 ppbv

RT: 6.34 min Scan# 1104

Delta R.T. 0.03 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Instrument :

MSVOA_L

ClientSampleId :

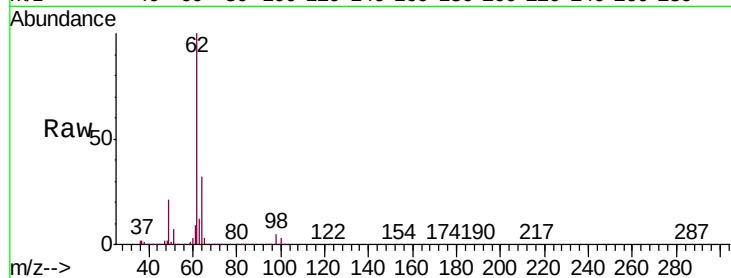
VL0206ABS01

Tgt Ion: 62 Resp: 1472274

Ion Ratio Lower Upper

62 100

98 4.5 3.7 5.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.34

800000

600000

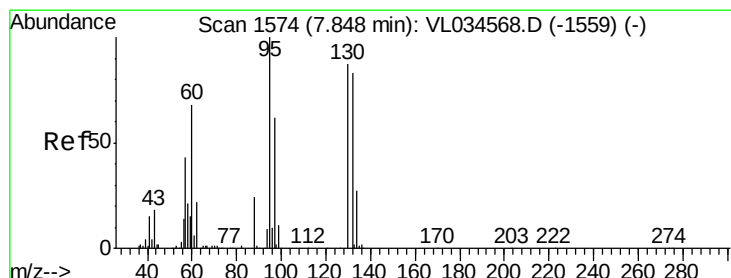
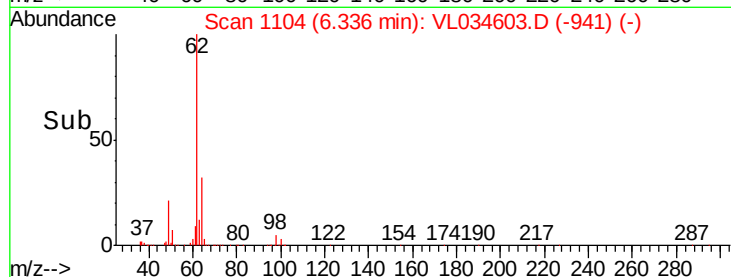
400000

200000

0

Time-->

6.25 6.30 6.35 6.40



#38

Trichloroethene

Concen: 9.688 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.03 min

Lab File: VL034603.D

Acq: 6 Feb 2020 16:53

Tgt Ion: 130 Resp: 767895

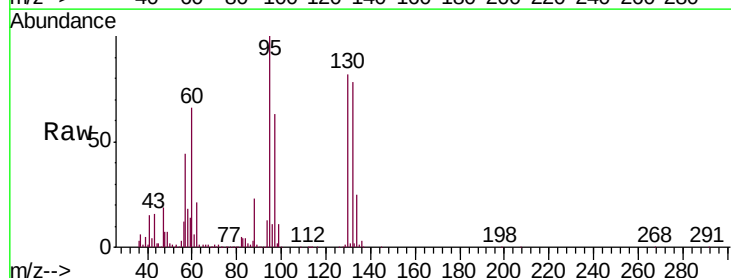
Ion Ratio Lower Upper

130 100

95 122.9 91.6 137.4

132 96.2 76.1 114.1

97 78.0 56.6 84.8



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

600000

400000

200000

0

Time-->

7.80 7.85 7.90 7.95

