

Data File : VL034706.D
Acq On : 27 Feb 2020 12:36
Operator : SY/AP
Sample : VL0227ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0227ABS01

Quant Time: Feb 28 01:06:26 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1002766	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2089650	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	2616562	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1798932	8.38	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.02	85	1340225	8.472	ppbv	96
3) Chlorodifluoromethane	2.96	51	1016048	9.389	ppbv	99
4) Chloromethane	3.12	50	565934	9.342	ppbv	97
5) Vinyl Chloride	3.24	62	552536	9.297	ppbv	100
6) Bromomethane	3.46	94	326393	9.374	ppbv	90
7) Chloroethane	3.54	64	206437	9.357	ppbv	92
8) Dichlorotetrafluoroethane	3.17	85	1275804	9.118	ppbv	99
9) Propene	2.99	41	413443	9.140	ppbv	100
10) Heptane	8.16	43	1170013	10.049	ppbv	100
11) Trichlorofluoromethane	3.94	101	1322446	9.544	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	906547	9.282	ppbv	100
13) Ethanol	3.60	45	118109	8.265	ppbv	95
14) Bromoethene	3.73	108	398569	9.781	ppbv	98
15) Acetone	3.84	43	1032364	9.035	ppbv	100
16) 1,3-Butadiene	3.31	39	526001	9.944	ppbv	98
17) tert-Butyl alcohol	4.29	59	914437	10.443	ppbv	99
18) 1,1-Dichloroethene	4.29	96	423482	9.658	ppbv	97
19) Isopropyl Alcohol	3.96	45	736434	10.820	ppbv	100
20) Methylene Chloride	4.34	84	371956	8.753	ppbv	97
21) Allyl Chloride	4.41	41	743607	9.836	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	406573	9.510	ppbv	98
23) Vinyl Acetate	5.08	43	1622136	10.442	ppbv	100
24) 1,1-Dichloroethane	5.02	63	1170886	9.438	ppbv	99
25) Ethyl Acetate	5.69	43	1963718	9.708	ppbv	100
26) Hexane	5.70	57	881962	9.460	ppbv	98
27) Carbon Disulfide	4.55	76	1089430	10.294	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1275416	9.576	ppbv	99
29) Chloroform	5.77	83	1405416	9.462	ppbv	97
30) Cyclohexane	7.16	84	722970	10.006	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	920514	10.033	ppbv	93
32) 1,1,1-Trichloroethane	6.54	97	1367279	9.857	ppbv	99
34) 2-Butanone	5.25	43	1293976	9.838	ppbv	98
35) Carbon Tetrachloride	7.05	117	1409246	10.070	ppbv	99
36) Benzene	6.92	78	1748049	9.686	ppbv	96
37) 1,2-Dichloroethane	6.33	62	1169298	10.278	ppbv	98
38) Trichloroethene	7.87	130	654881	9.414	ppbv	96
39) 1,2-Dichloropropane	7.65	63	697280	9.711	ppbv	97
40) 1,4-Dioxane	7.87	88	262617	10.755	ppbv	98
41) Tetrahydrofuran	6.07	42	711428	10.248	ppbv	100
42) Bromodichloromethane	7.83	83	1547311	10.388	ppbv	98
43) Methyl Methacrylate	8.05	69	800342	10.543	ppbv	99

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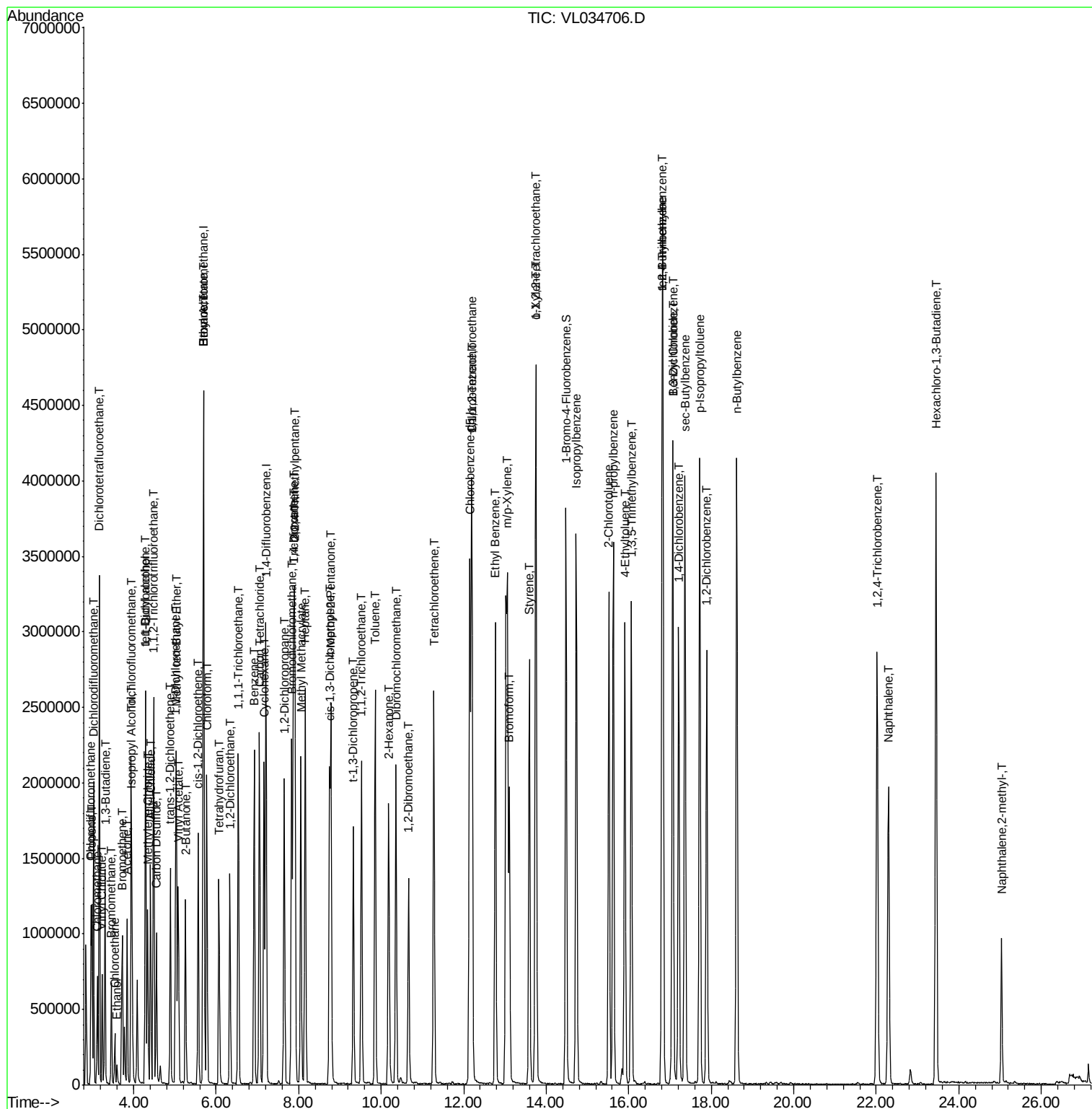
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3072728	9.741	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	956361	11.545	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1127783	11.352	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	725348	9.847	ppbv	97
48) Dibromochloromethane	10.36	129	1234769	10.780	ppbv	100
49) Bromoform	13.10	173	1089911	10.974	ppbv	98
50) 4-Methyl-2-Pentanone	8.78	43	2000133	10.736	ppbv	99
51) 2-Hexanone	10.18	43	1679245	11.454	ppbv #	98
52) Tetrachloroethene	11.28	164	609919	9.219	ppbv	97
53) Toluene	9.85	91	2008923	10.465	ppbv	99
54) 1,2-Dibromoethane	10.67	107	1126147	10.247	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	877805	7.877	ppbv #	60
57) Chlorobenzene	12.20	112	1524430	7.882	ppbv	96
58) Ethyl Benzene	12.77	91	2719040	8.589	ppbv	99
59) m/p-Xylene	13.06	91	2100268	7.607	ppbv #	22
60) o-Xylene	13.75	91	2248946	8.208	ppbv	99
61) Styrene	13.59	104	1583842	8.999	ppbv	98
62) Isopropylbenzene	14.73	105	3150065	7.881	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1645950	7.708	ppbv	100
64) n-propylbenzene	15.63	120	818117	7.940	ppbv	92
65) tert-Butylbenzene	16.81	119	2740128	7.940	ppbv	99
66) Benzyl Chloride	17.06	91	1323601	10.281	ppbv	99
67) sec-Butylbenzene	17.37	105	3911389	7.876	ppbv	99
69) p-Isopropyltoluene	17.72	119	3225809	7.891	ppbv	99
70) n-Butylbenzene	18.62	91	3474604	7.805	ppbv	100
71) 2-Chlorotoluene	15.52	91	2485659	8.030	ppbv	99
72) 4-Ethyltoluene	15.91	105	2609304	8.556	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2456934	8.375	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2552966	7.880	ppbv	97
75) 1,3-Dichlorobenzene	17.07	146	1453539	7.772	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1457807	7.791	ppbv	98
77) 1,2-Dichlorobenzene	17.89	146	1406694	7.780	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	1080343	6.862	ppbv	98
79) Naphthalene	22.30	128	2462680	8.637	ppbv	99
80) Naphthalene,2-methyl-	25.04	142	540698	6.148	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1300246	7.641	ppbv	99

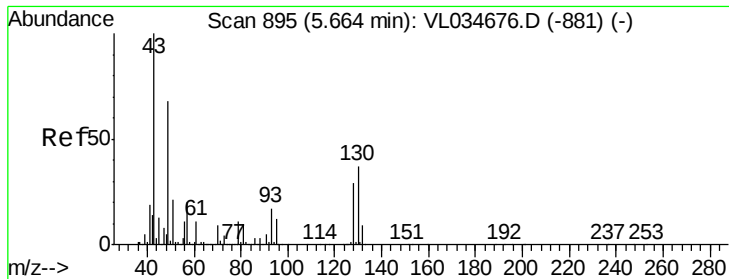
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial      : 1      Sample Multiplier: 1
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

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MSVOA_L

ClientSampleId :

VL0227ABS01

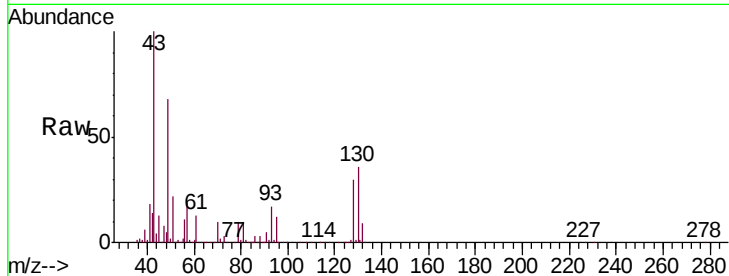
Tgt Ion: 49 Resp: 1002766

Ion Ratio Lower Upper

49 100

128 42.8 21.6 65.0

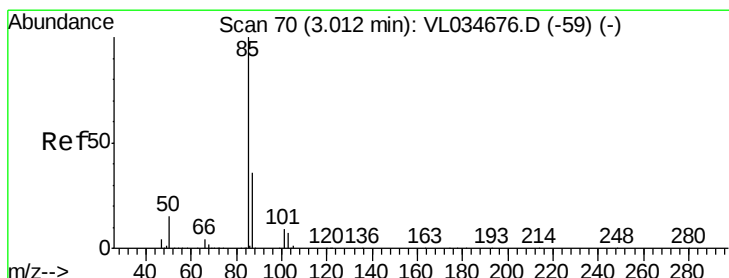
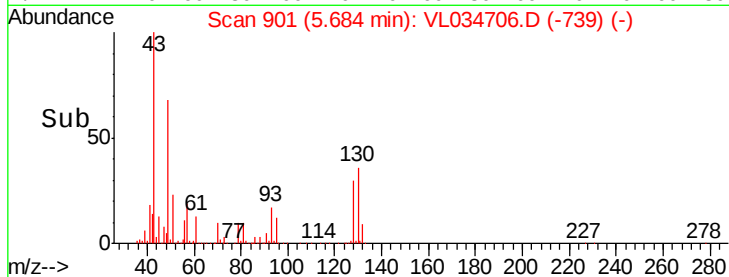
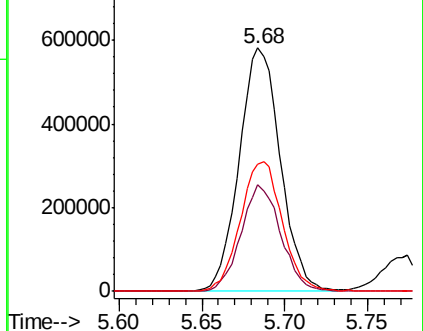
130 54.9 27.7 83.1



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: 8.472 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL034706.D

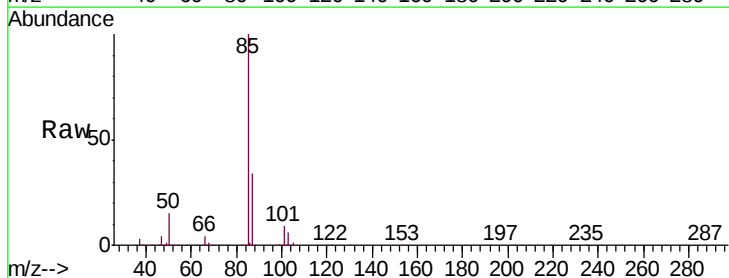
Acq: 27 Feb 2020 12:36

Tgt Ion: 85 Resp: 1340225

Ion Ratio Lower Upper

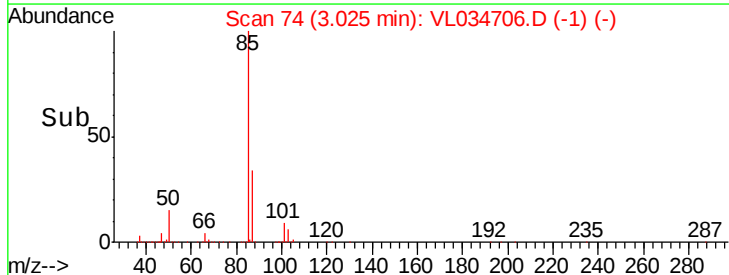
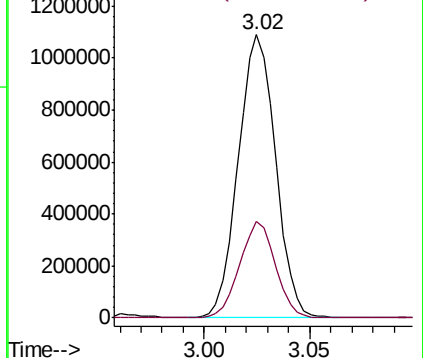
85 100

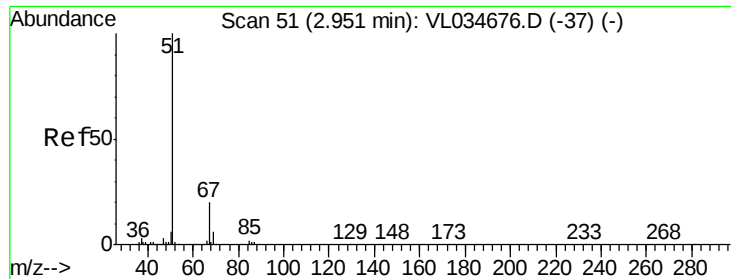
87 34.0 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.389 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.01 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

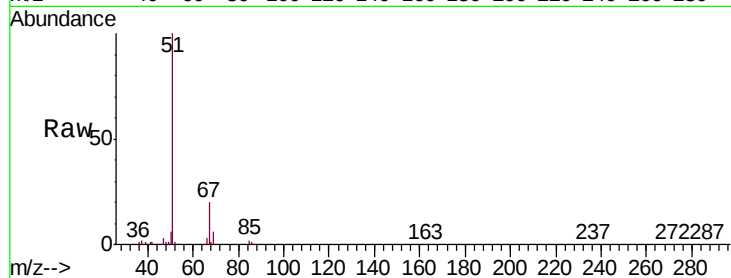
VL0227ABS01

Tgt Ion: 51 Resp: 1016048

Ion Ratio Lower Upper

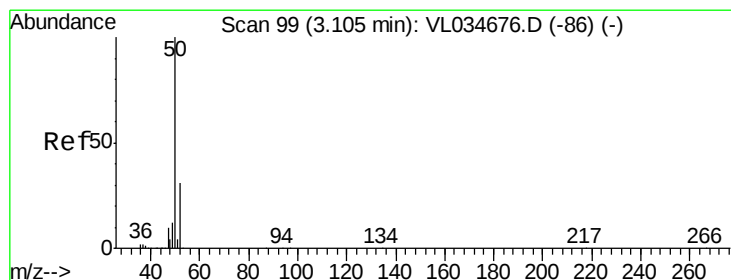
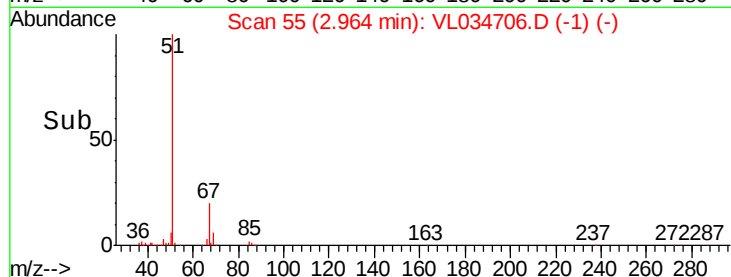
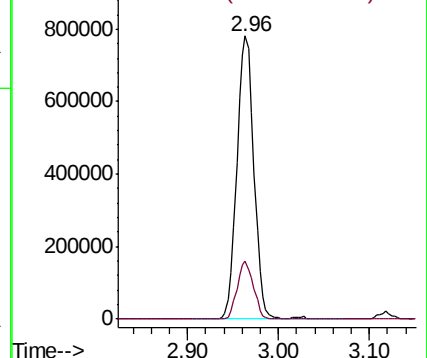
51 100

67 19.8 15.5 23.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.342 ppbv

RT: 3.12 min Scan# 103

Delta R.T. 0.01 min

Lab File: VL034706.D

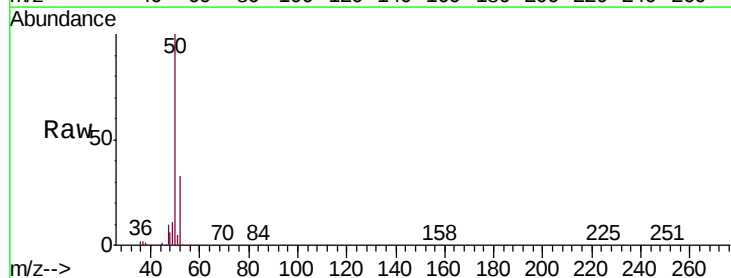
Acq: 27 Feb 2020 12:36

Tgt Ion: 50 Resp: 565934

Ion Ratio Lower Upper

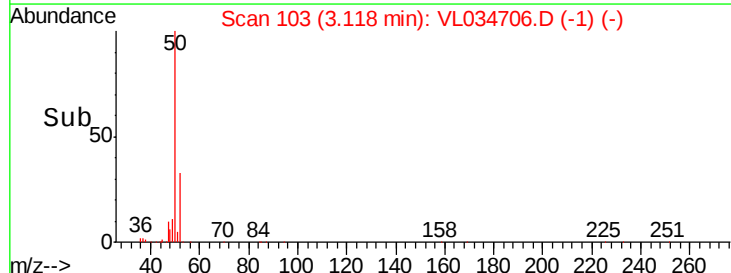
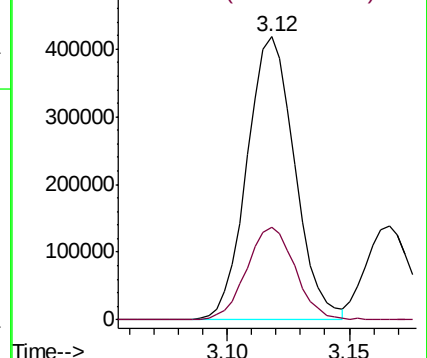
50 100

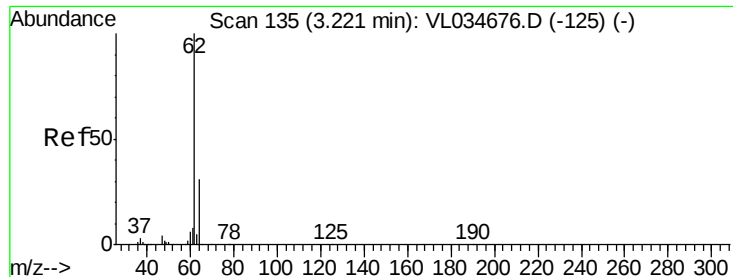
52 32.6 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.297 ppbv

RT: 3.24 min Scan# 140

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

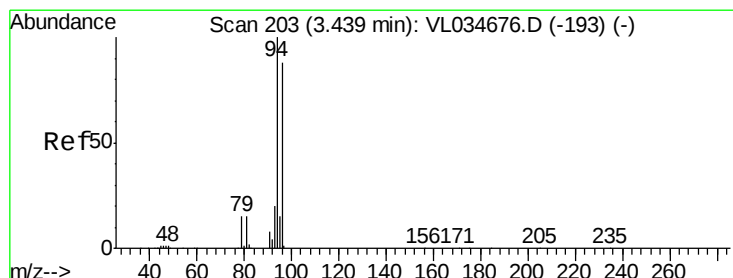
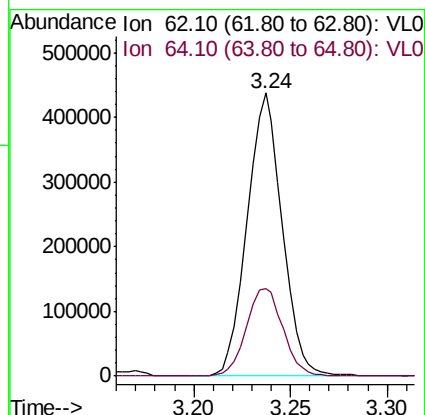
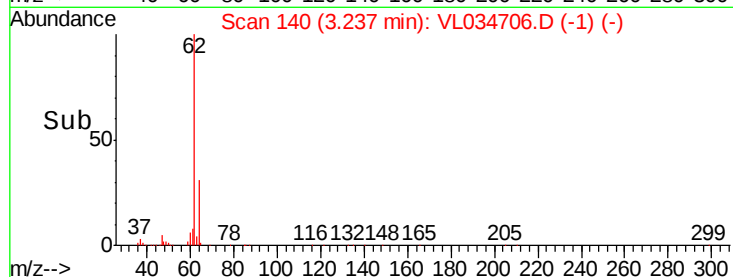
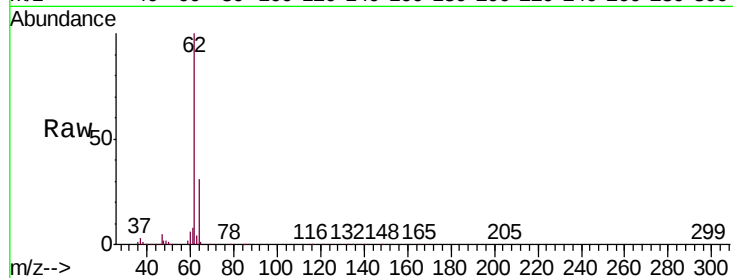
VL0227ABS01

Tgt Ion: 62 Resp: 552536

Ion Ratio Lower Upper

62 100

64 30.8 24.7 37.1



#6

Bromomethane

Concen: 9.374 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.02 min

Lab File: VL034706.D

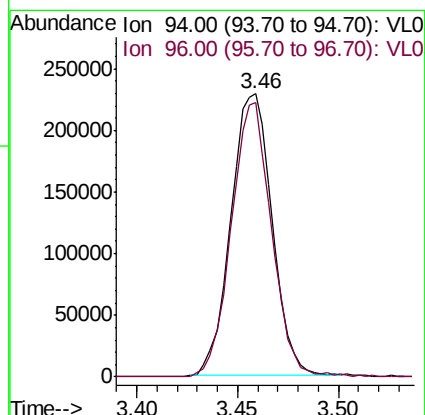
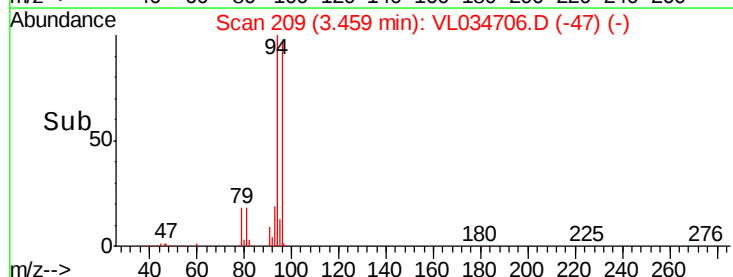
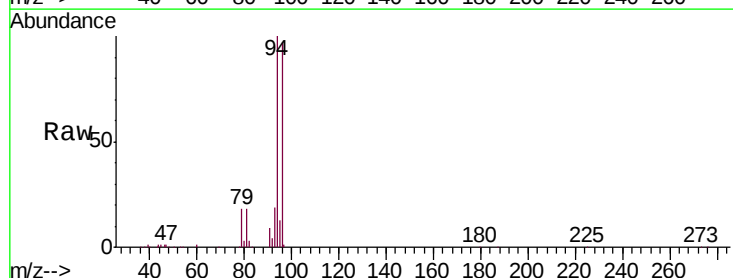
Acq: 27 Feb 2020 12:36

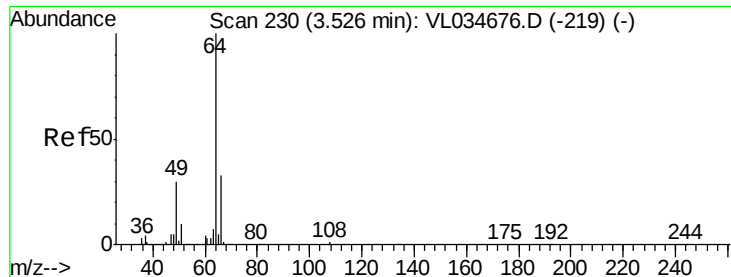
Tgt Ion: 94 Resp: 326393

Ion Ratio Lower Upper

94 100

96 97.0 70.5 105.7





#7

Chloroethane

Concen: 9.357 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

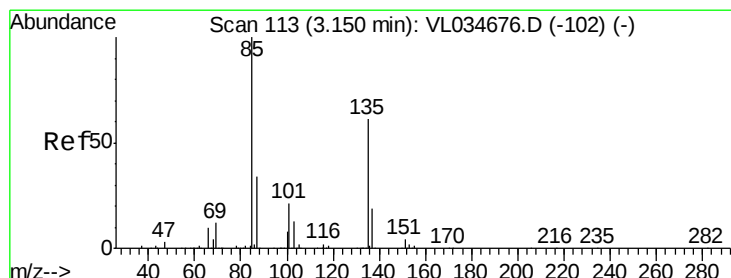
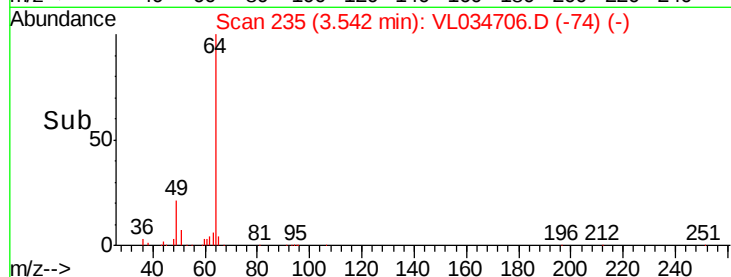
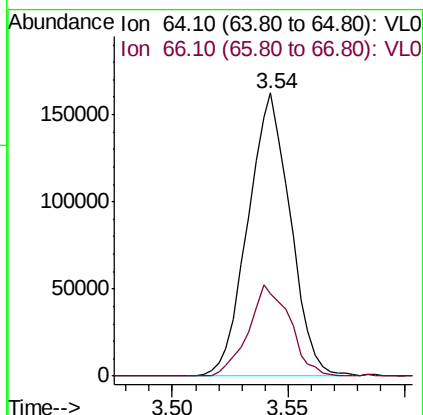
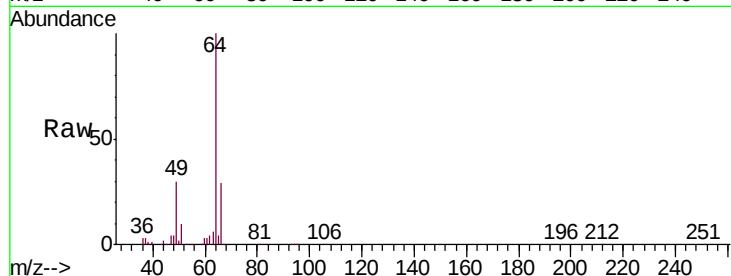
VL0227ABS01

Tgt Ion: 64 Resp: 206437

Ion Ratio Lower Upper

64 100

66 29.0 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 9.118 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.02 min

Lab File: VL034706.D

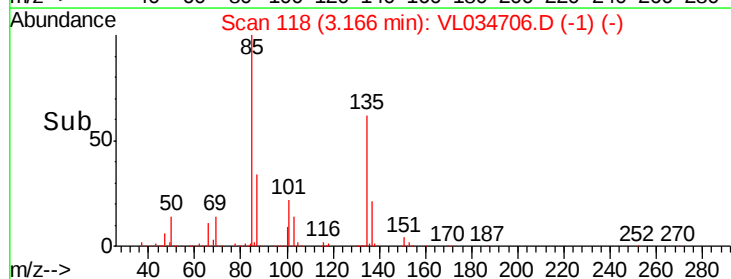
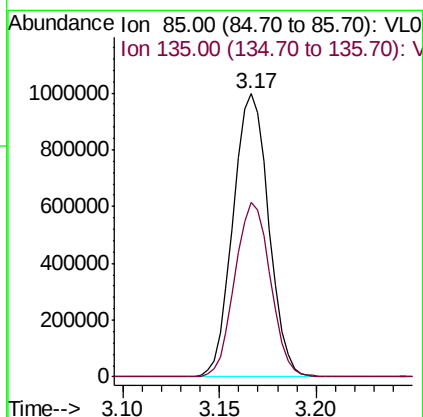
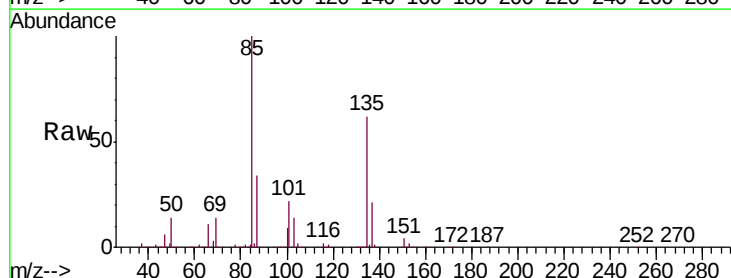
Acq: 27 Feb 2020 12:36

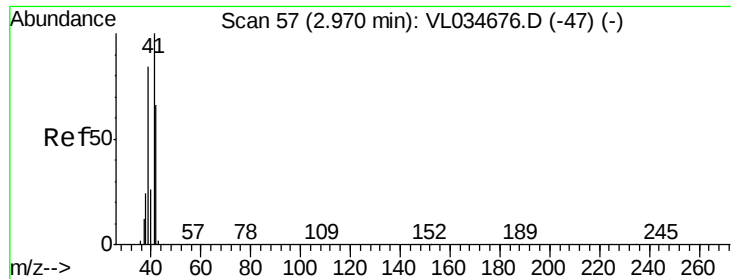
Tgt Ion: 85 Resp: 1275804

Ion Ratio Lower Upper

85 100

135 61.7 49.8 74.6





#9

Propene

Concen: 9.140 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

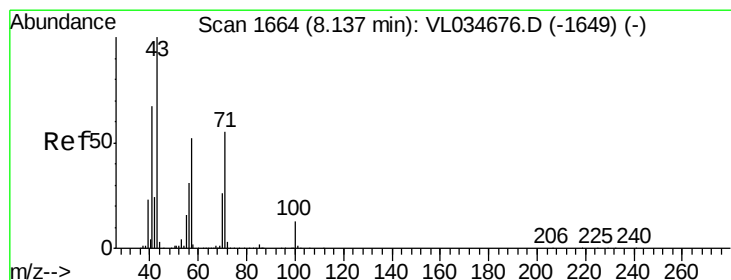
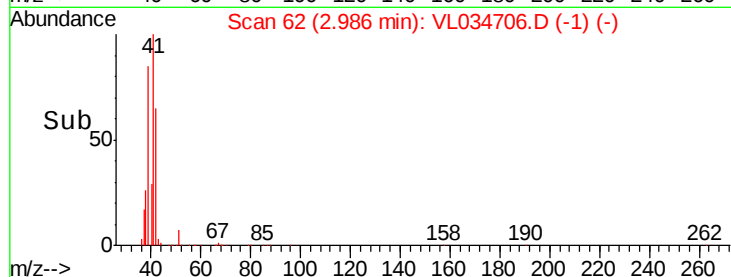
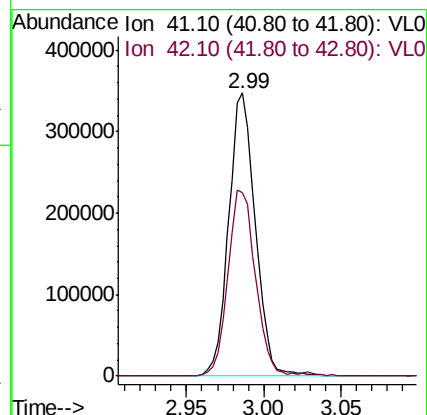
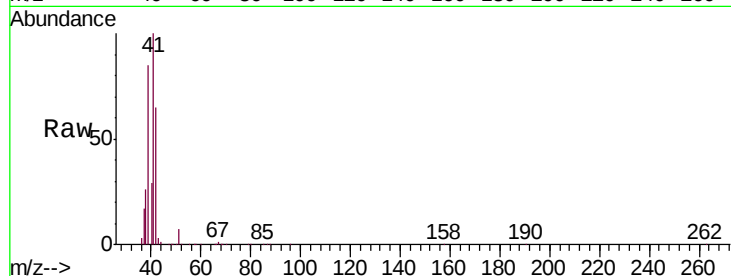
VL0227ABS01

Tgt Ion: 41 Resp: 413443

Ion Ratio Lower Upper

41 100

42 69.0 54.9 82.3



#10

Heptane

Concen: 10.049 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. 0.02 min

Lab File: VL034706.D

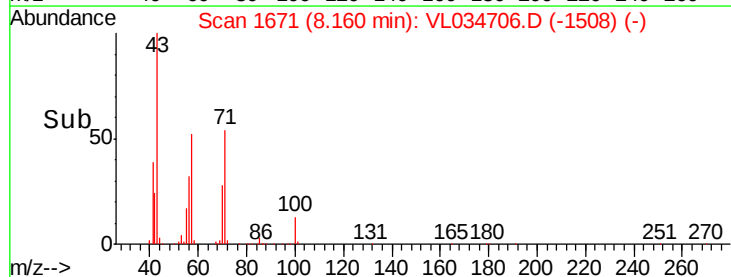
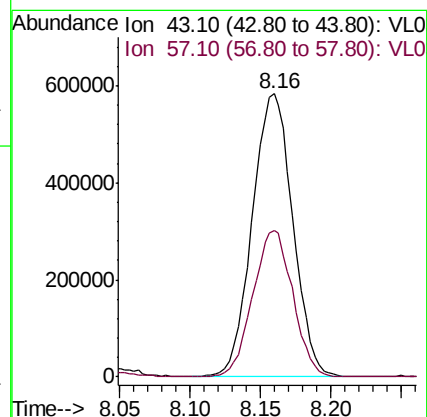
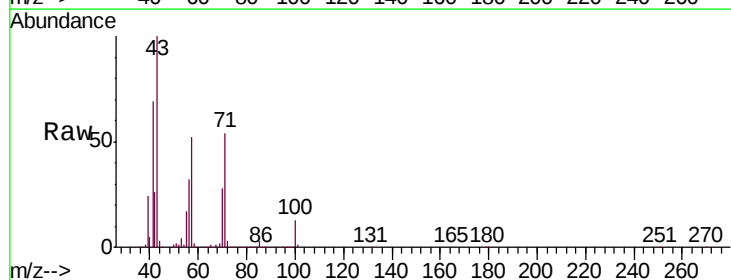
Acq: 27 Feb 2020 12:36

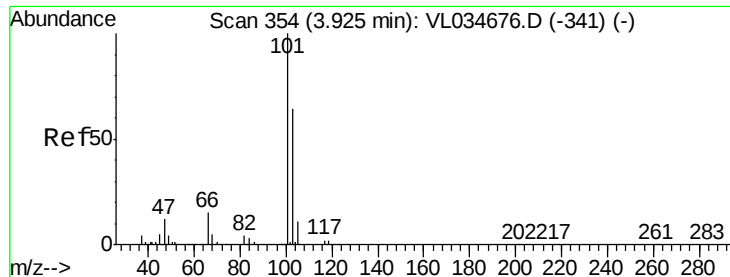
Tgt Ion: 43 Resp: 1170013

Ion Ratio Lower Upper

43 100

57 51.1 41.0 61.6





#11

Trichlorofluoromethane

Concen: 9.544 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.01 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

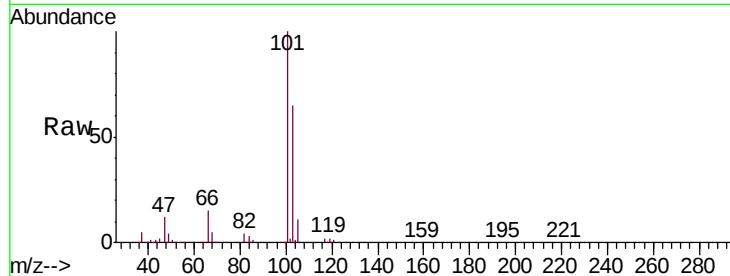
VL0227ABS01

Tgt Ion:101 Resp: 1322446

Ion Ratio Lower Upper

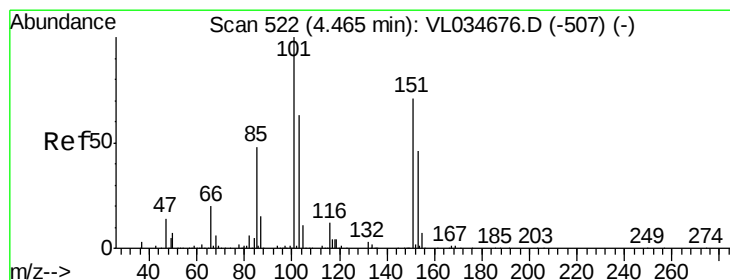
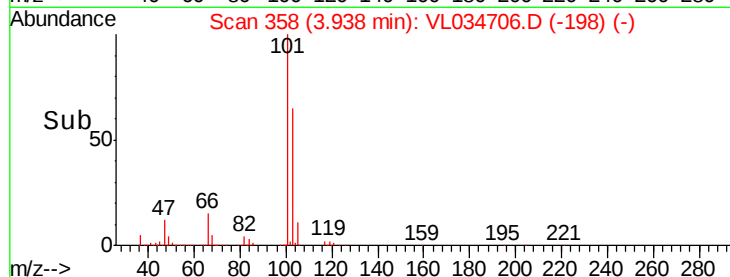
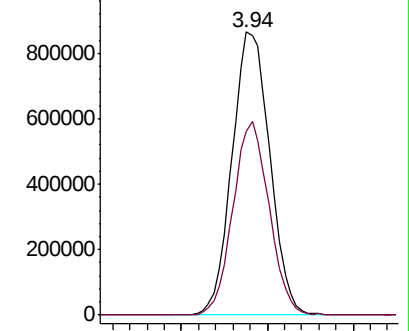
101 100

103 64.9 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

1000000 Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.282 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.02 min

Lab File: VL034706.D

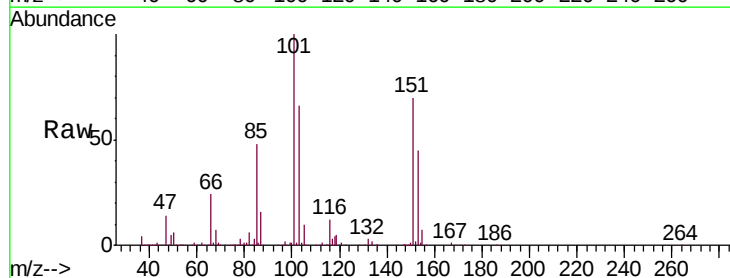
Acq: 27 Feb 2020 12:36

Tgt Ion:101 Resp: 906547

Ion Ratio Lower Upper

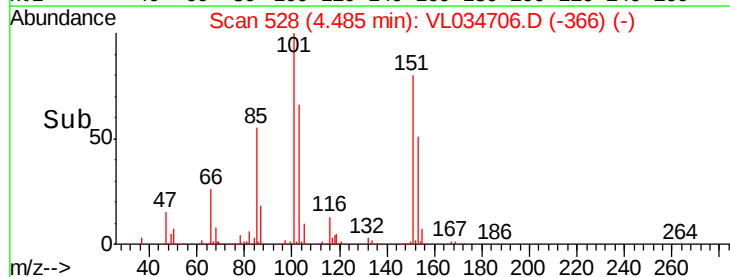
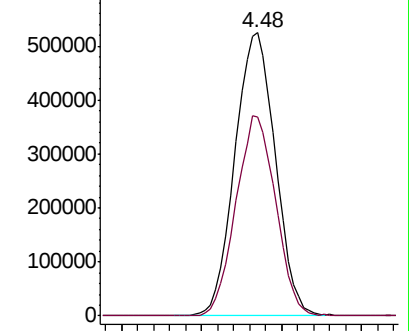
101 100

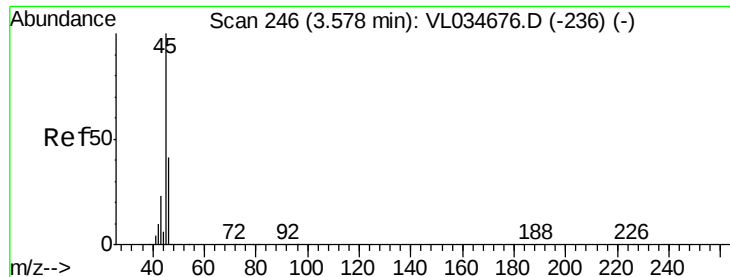
151 69.7 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

600000 Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 8.265 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

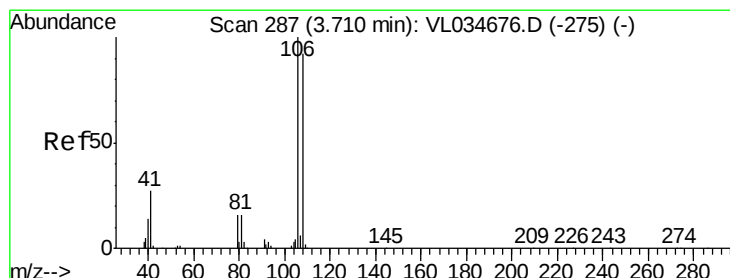
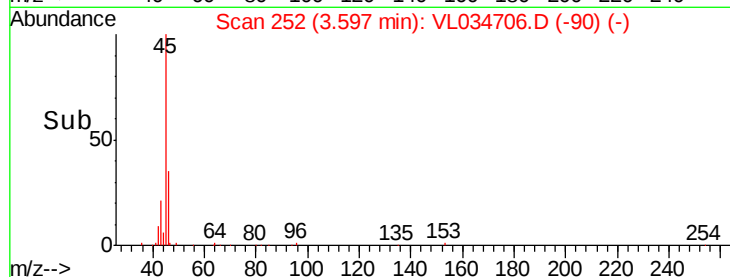
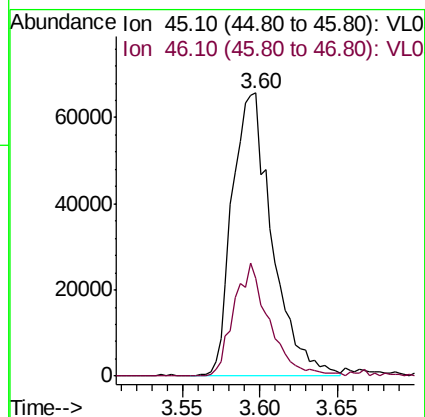
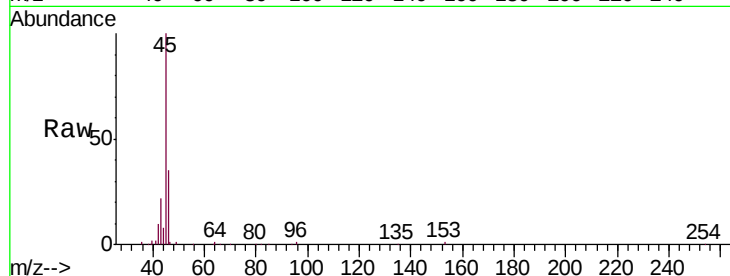
VL0227ABS01

Tgt Ion: 45 Resp: 118109

Ion Ratio Lower Upper

45 100

46 35.2 15.4 61.4



#14

Bromoethene

Concen: 9.781 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

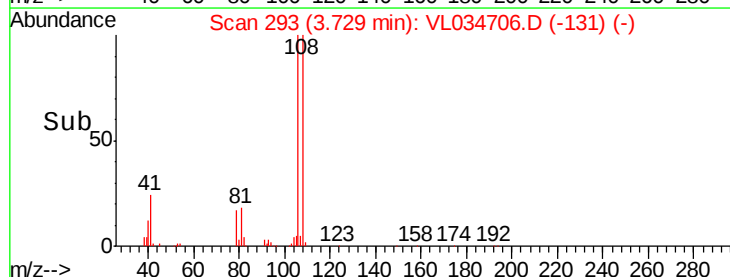
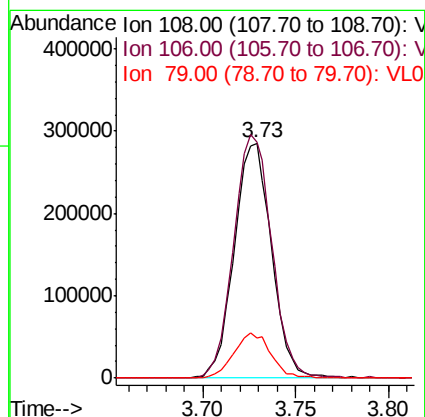
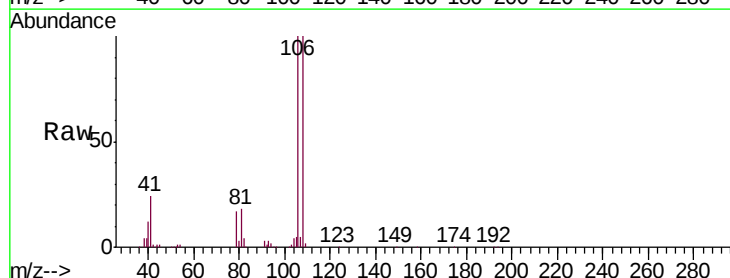
Tgt Ion: 108 Resp: 398569

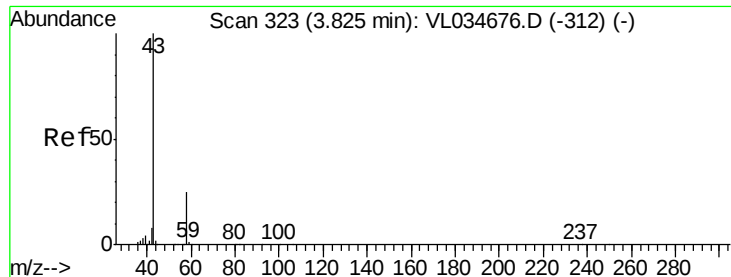
Ion Ratio Lower Upper

108 100

106 106.2 86.7 130.1

79 19.3 15.0 22.6

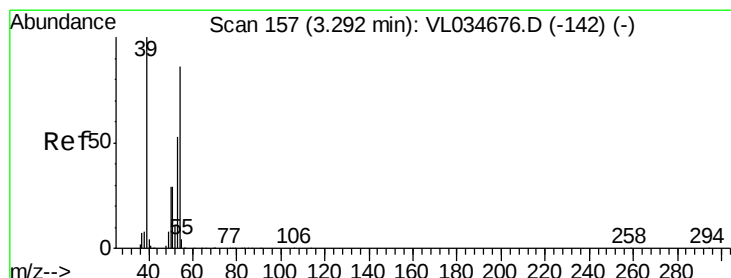
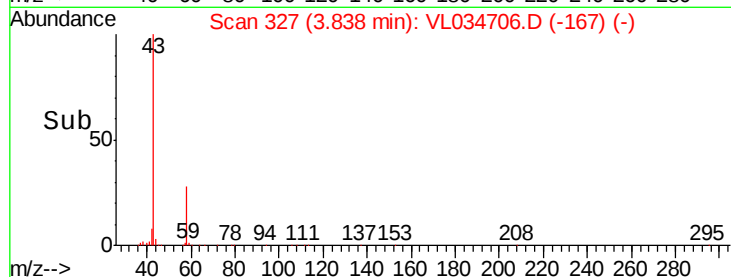
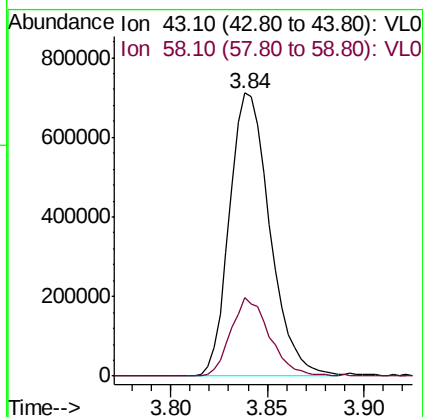
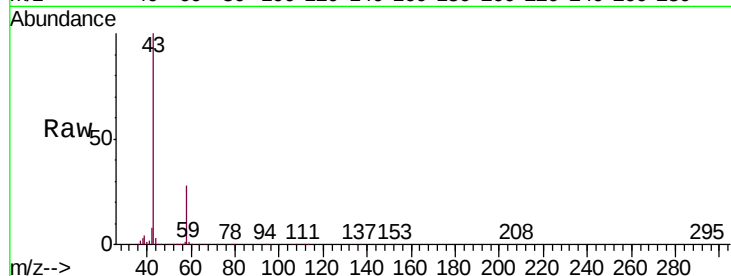




#15
Acetone
Concen: 9.035 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

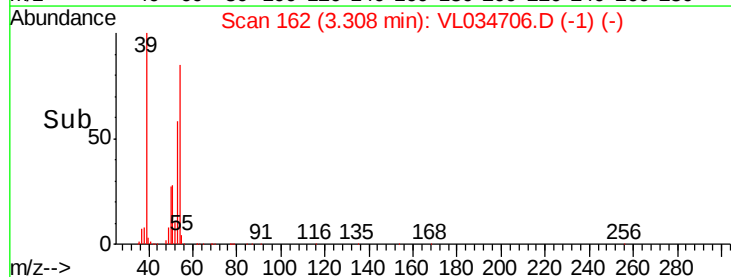
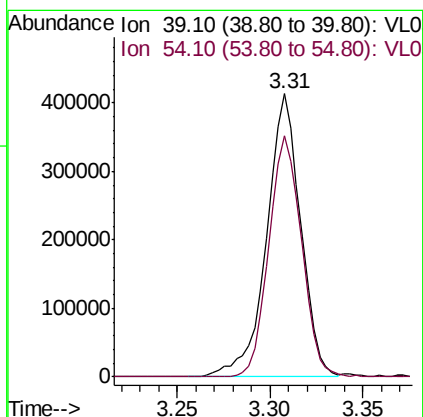
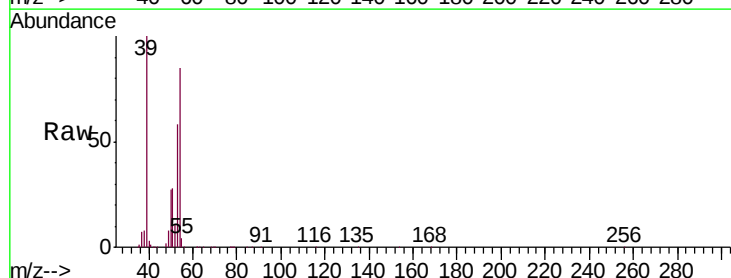
Instrument :
MSVOA_L
ClientSampleId :
VL0227ABS01

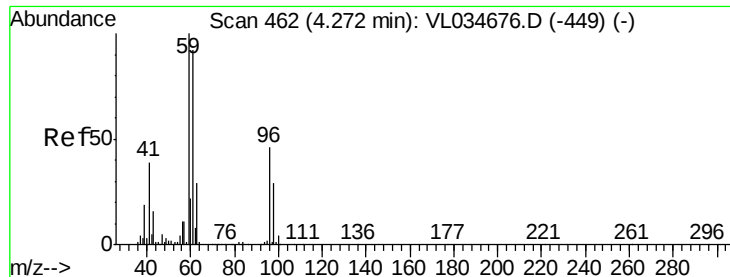
Tgt Ion: 43 Resp: 1032364
Ion Ratio Lower Upper
43 100
58 26.6 21.4 32.0



#16
1,3-Butadiene
Concen: 9.944 ppbv
RT: 3.31 min Scan# 162
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Tgt Ion: 39 Resp: 526001
Ion Ratio Lower Upper
39 100
54 82.1 67.0 100.6



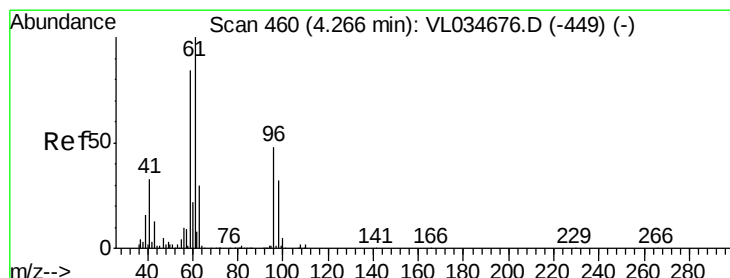
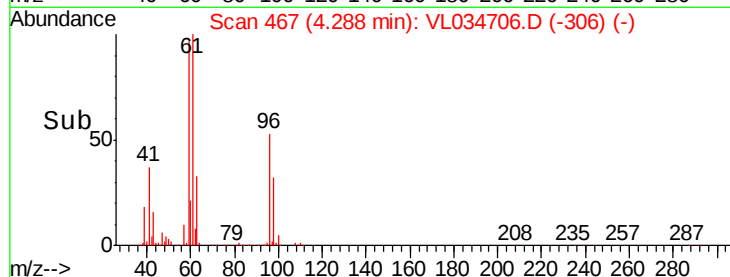
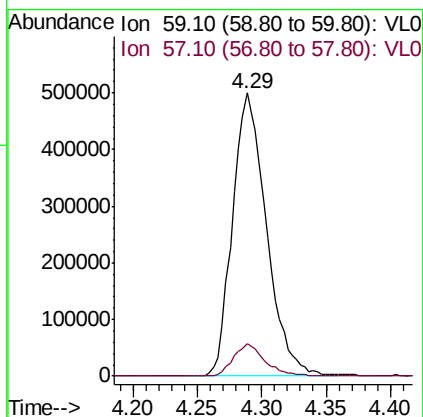
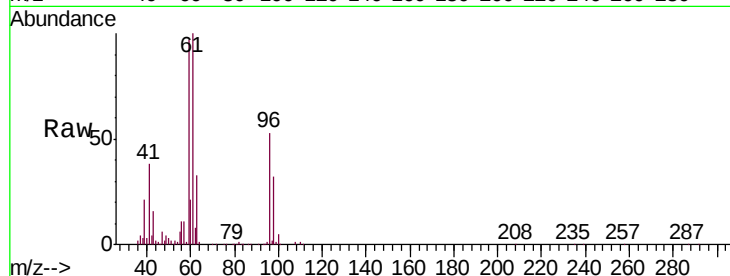


#17

tert-Butyl alcohol
Concen: 10.443 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Instrument :
MSVOA_L
ClientSampleId :
VL0227ABS01

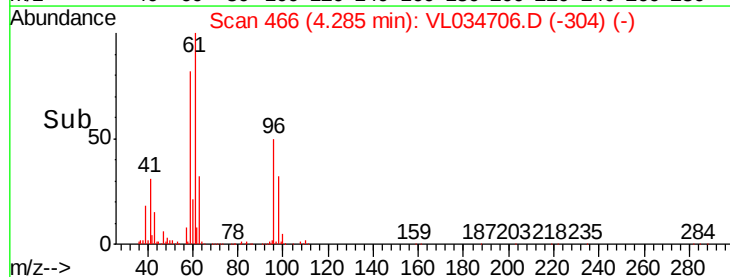
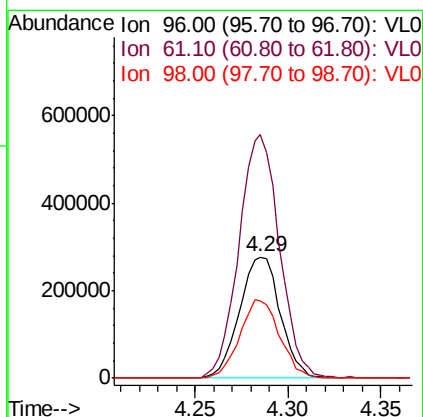
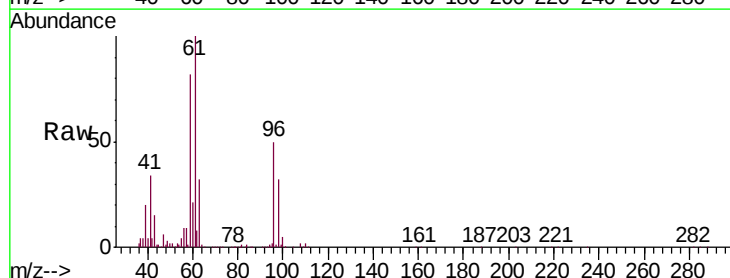
Tgt Ion: 59 Resp: 914437
Ion Ratio Lower Upper
59 100
57 10.6 8.8 13.2

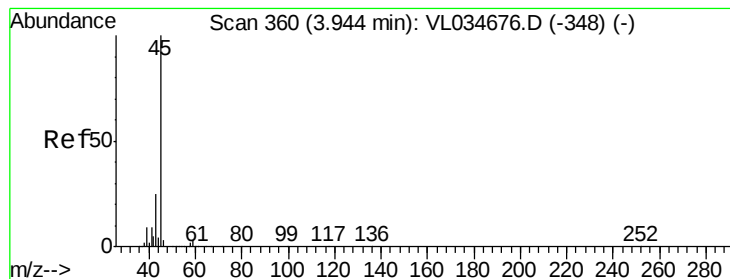


#18

1,1-Dichloroethene
Concen: 9.658 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Tgt Ion: 96 Resp: 423482
Ion Ratio Lower Upper
96 100
61 201.5 165.1 247.7
98 63.4 52.7 79.1





#19

Isopropyl Alcohol

Concen: 10.820 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

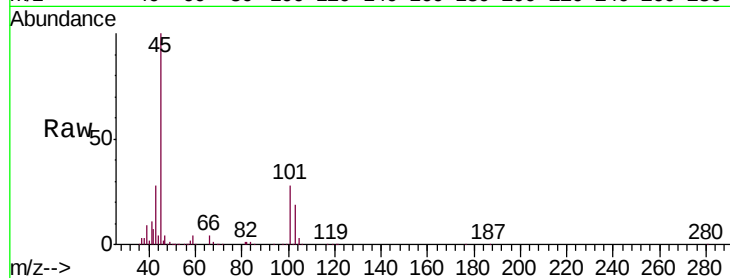
VL0227ABS01

Tgt Ion: 45 Resp: 736434

Ion Ratio Lower Upper

45 100

58 2.2 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

400000

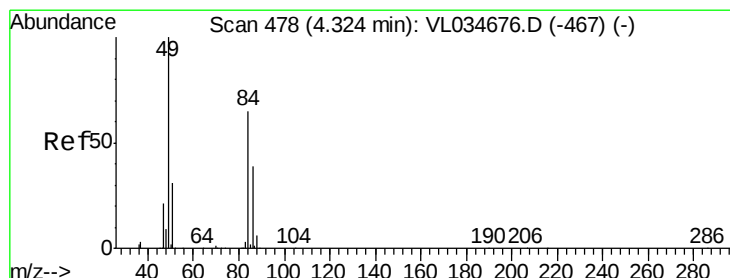
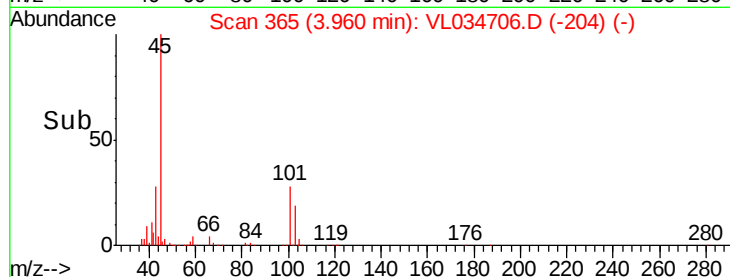
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.753 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Tgt Ion: 84 Resp: 371956

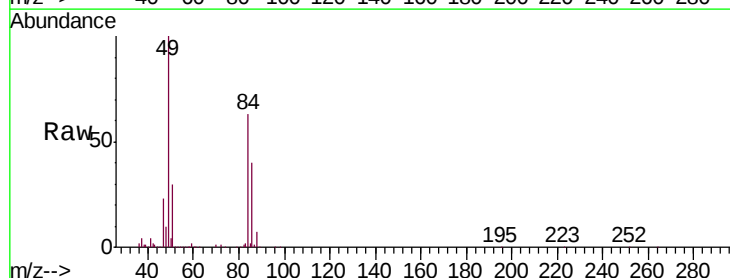
Ion Ratio Lower Upper

84 100

49 157.1 122.8 184.2

51 46.9 38.6 58.0

86 63.2 47.7 71.5



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

500000

400000

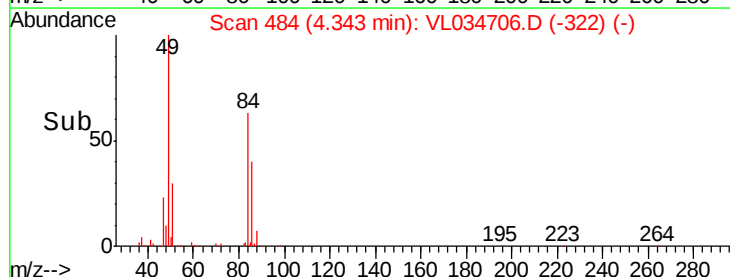
300000

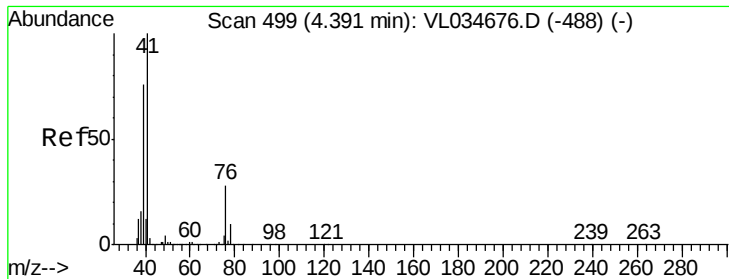
200000

100000

0

Time-->





#21

Allyl Chloride

Concen: 9.836 ppbv

RT: 4.41 min Scan# 505

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

VL0227ABS01

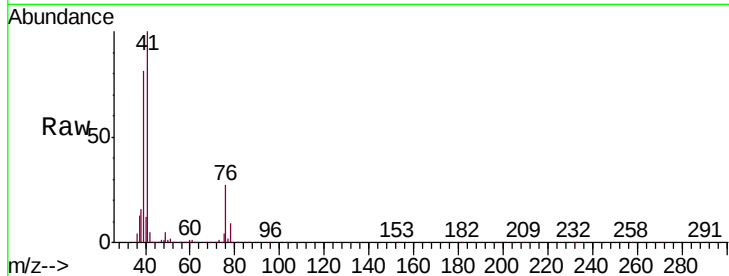
Tgt Ion: 41 Resp: 743607

Ion Ratio Lower Upper

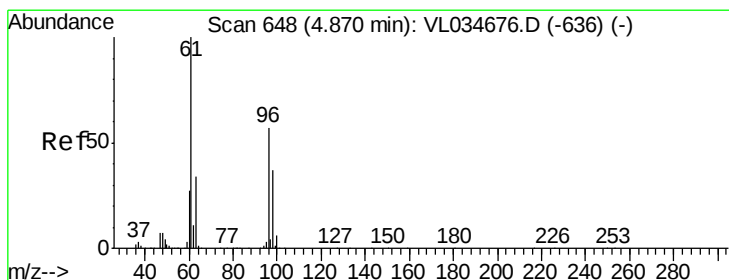
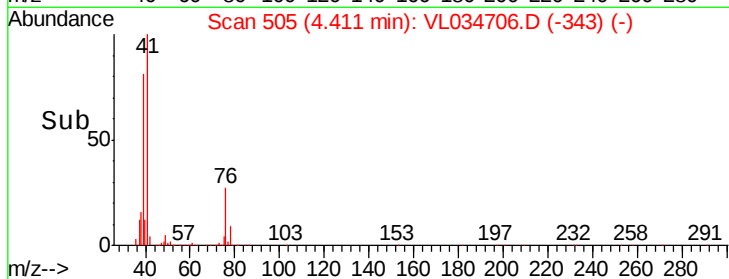
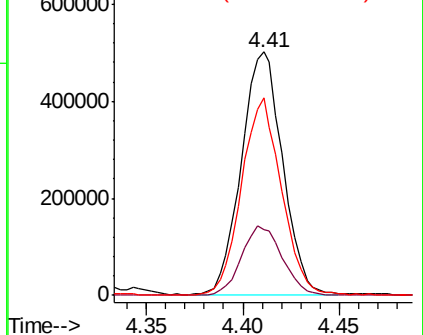
41 100

76 28.2 22.8 34.2

39 79.3 61.7 92.5



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.510 ppbv

RT: 4.89 min Scan# 654

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

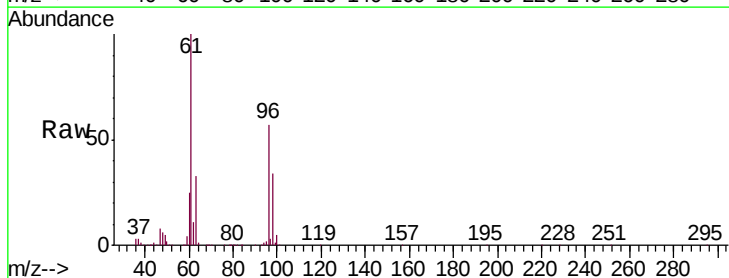
Tgt Ion: 96 Resp: 406573

Ion Ratio Lower Upper

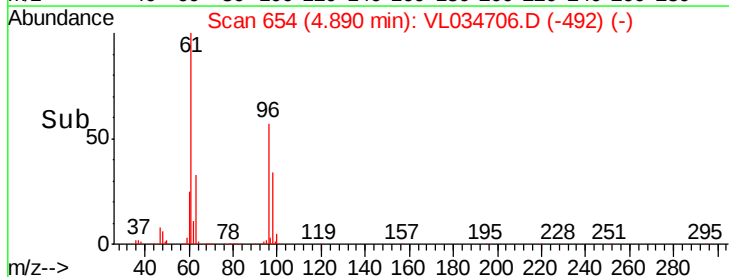
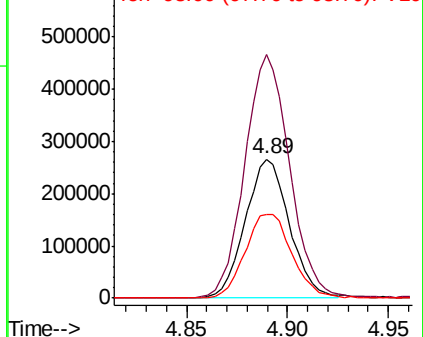
96 100

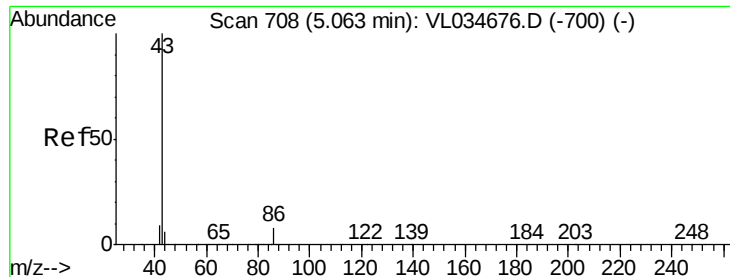
61 175.2 139.4 209.0

98 60.1 51.3 76.9



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





#23

Vinyl Acetate

Concen: 10.442 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

VL0227ABS01

Tgt Ion: 43 Resp: 1622136

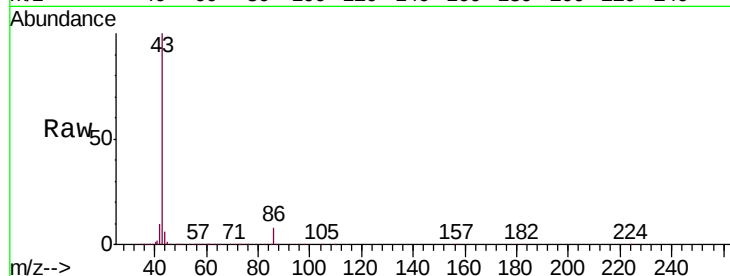
Ion Ratio Lower Upper

43 100

86 7.6 6.0 9.0

42 9.9 8.0 12.0

44 5.5 4.5 6.7

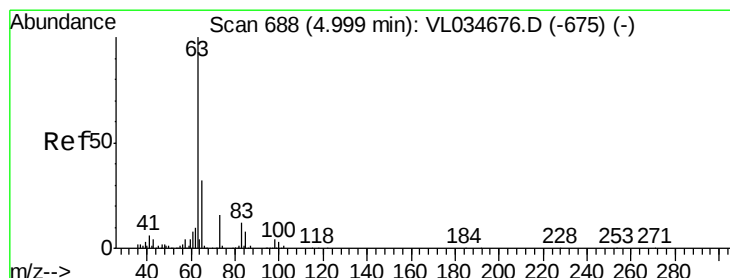
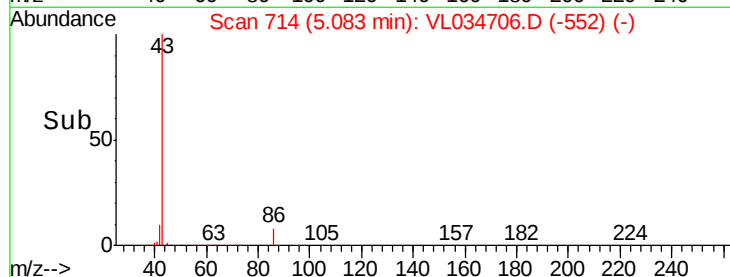
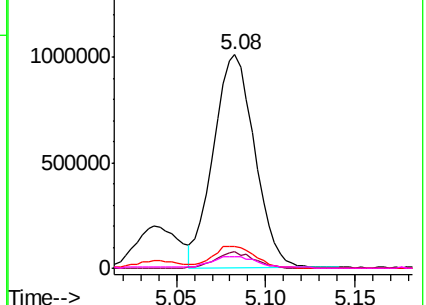


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.438 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

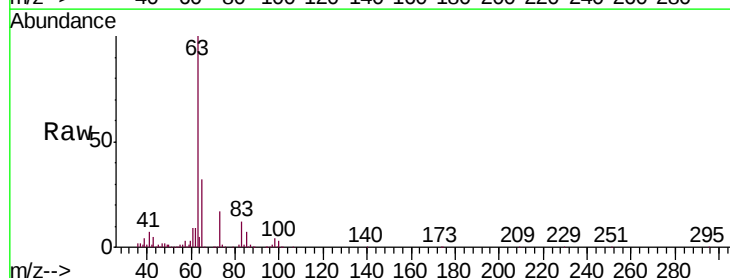
Tgt Ion: 63 Resp: 1170886

Ion Ratio Lower Upper

63 100

98 3.7 2.1 6.2

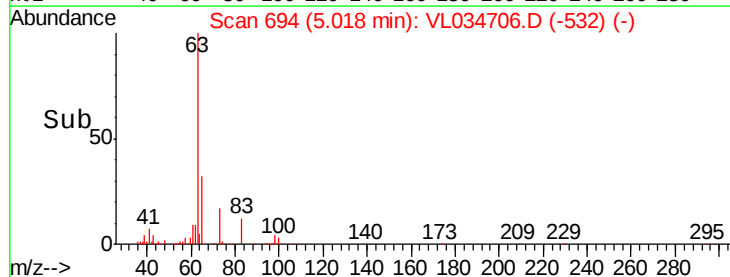
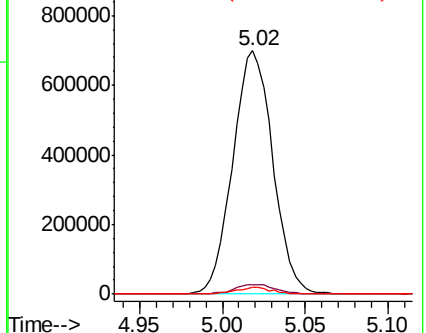
100 3.2 1.4 4.0

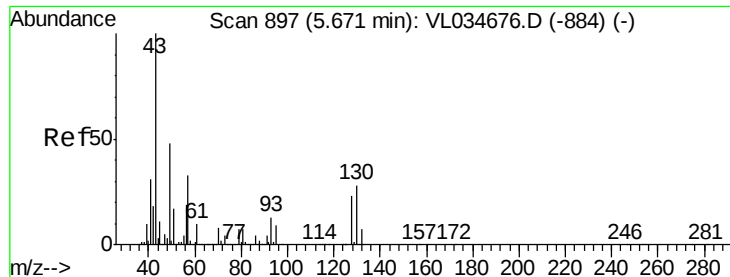


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



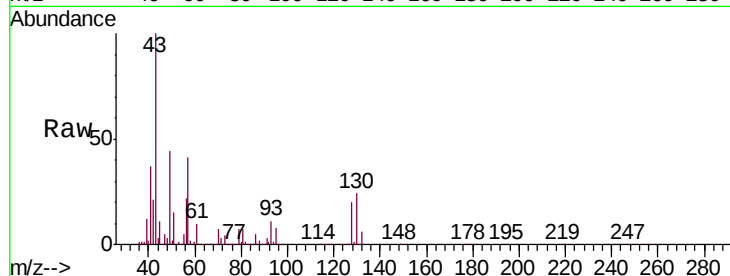


#25
Ethyl Acetate
Concen: 9.708 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Instrument :
MSVOA_L
ClientSampleId :
VL0227ABS01

Tgt Ion: 43 Resp: 1963718

Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.2	12.4
61	9.5	7.8	11.6
70	7.4	6.1	9.1



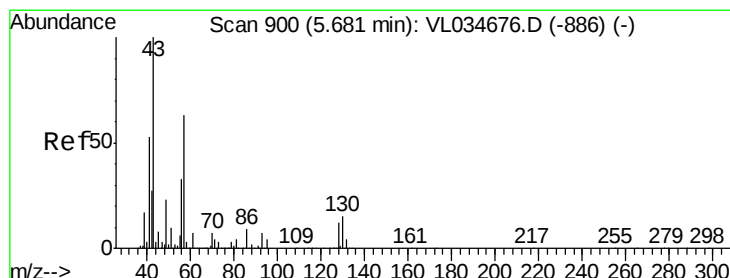
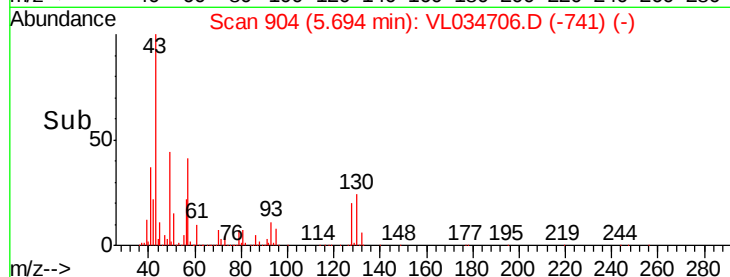
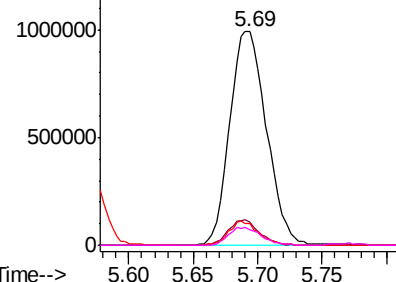
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

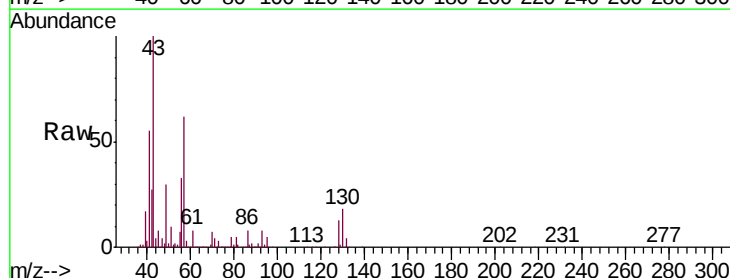
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.460 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Tgt Ion: 57 Resp: 881962

Ion	Ratio	Lower	Upper
57	100		
41	91.0	70.3	105.5
43	223.8	177.0	265.4
56	53.5	42.6	64.0



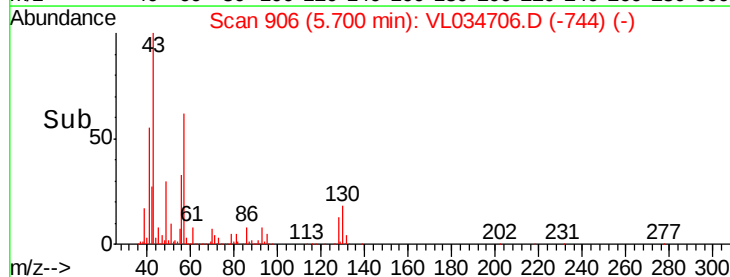
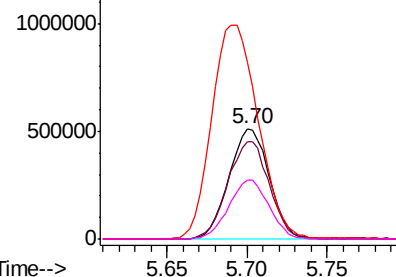
Abundance

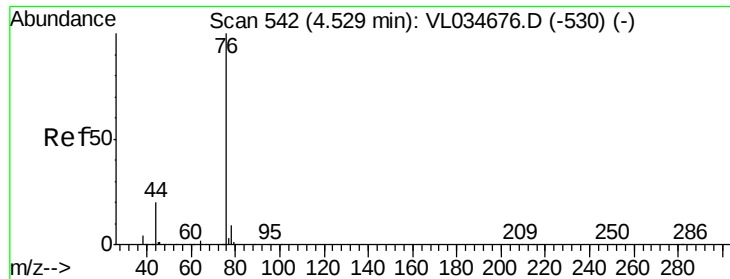
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.294 ppbv

RT: 4.55 min Scan# 548

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

VL0227ABS01

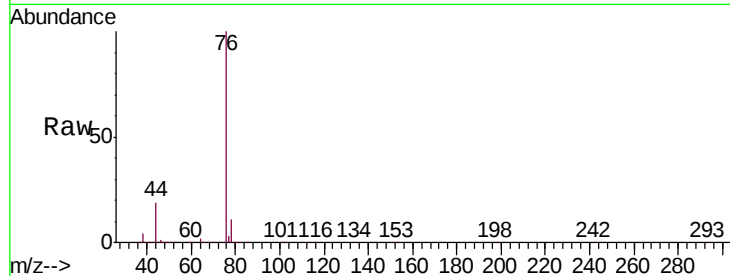
Tgt Ion: 76 Resp: 1089430

Ion Ratio Lower Upper

76 100

44 19.7 15.3 22.9

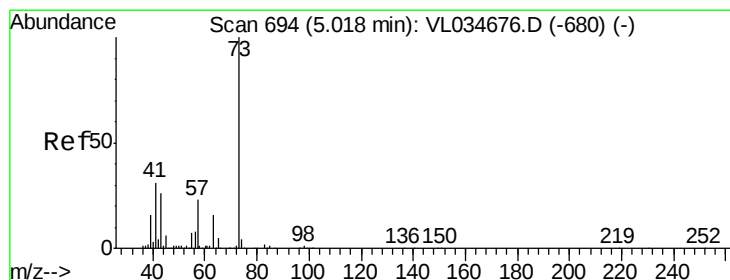
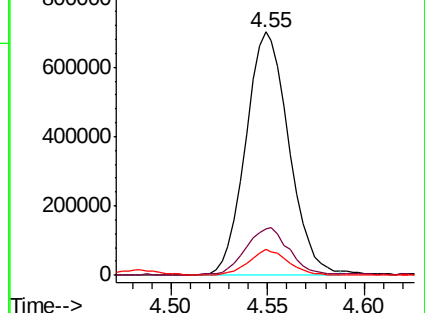
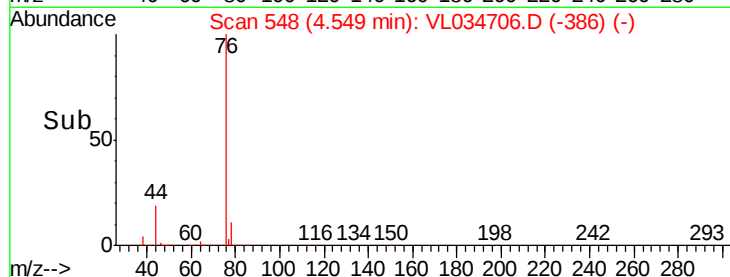
78 9.7 7.6 11.4



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: 9.576 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.02 min

Lab File: VL034706.D

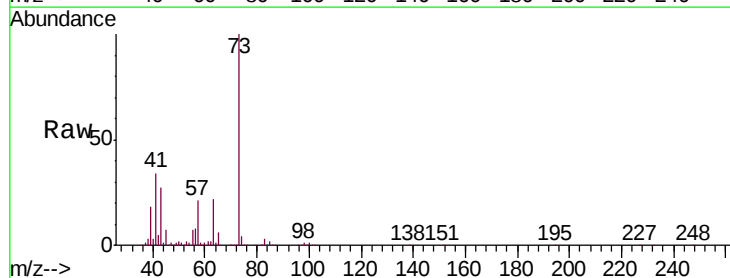
Acq: 27 Feb 2020 12:36

Tgt Ion: 73 Resp: 1275416

Ion Ratio Lower Upper

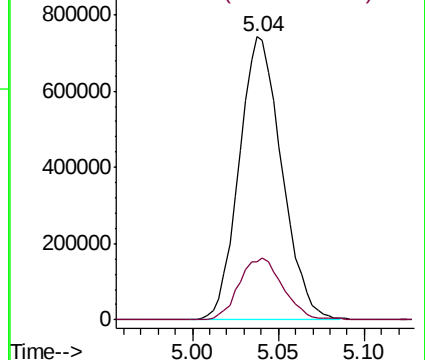
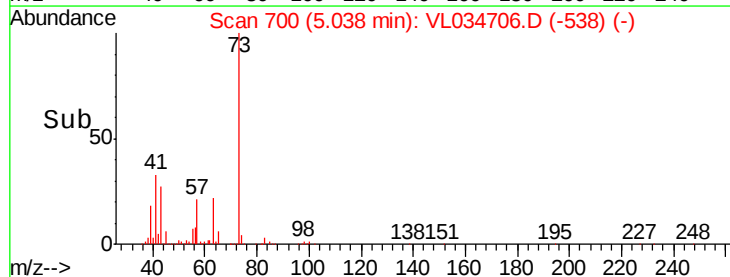
73 100

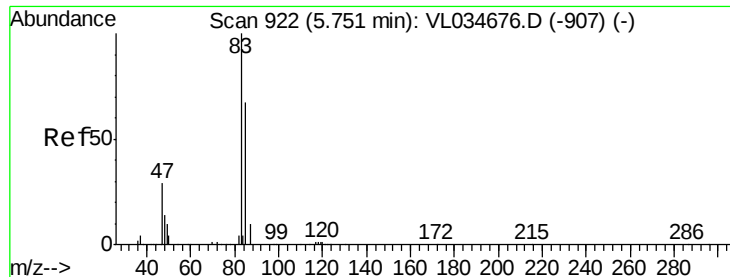
57 22.8 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.462 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

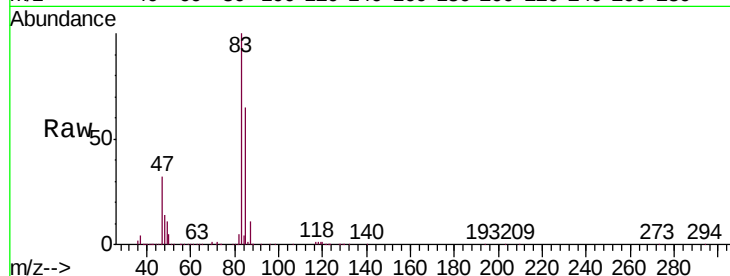
VL0227ABS01

Tgt Ion: 83 Resp: 1405416

Ion Ratio Lower Upper

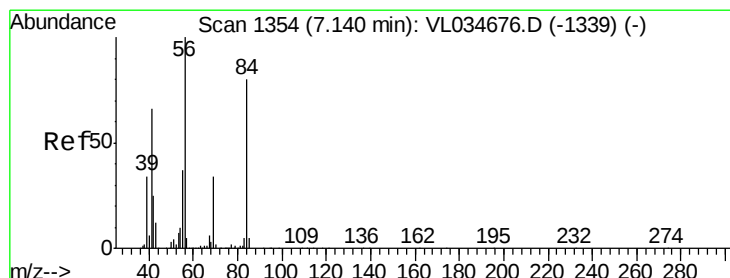
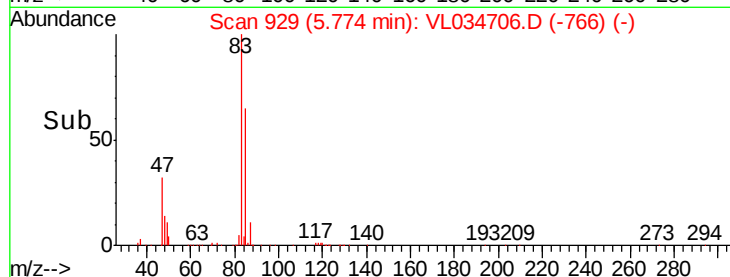
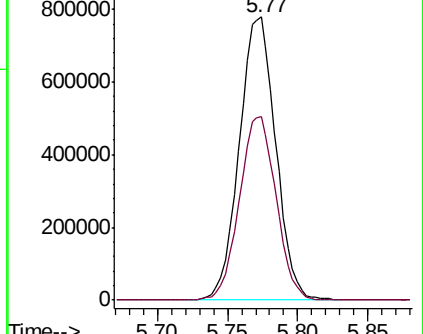
83 100

85 64.7 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 10.006 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

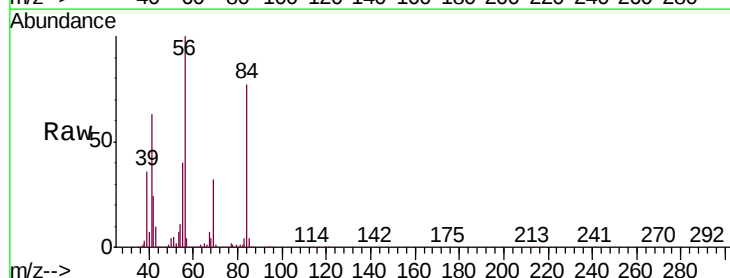
Tgt Ion: 84 Resp: 722970

Ion Ratio Lower Upper

84 100

56 137.8 113.4 170.2

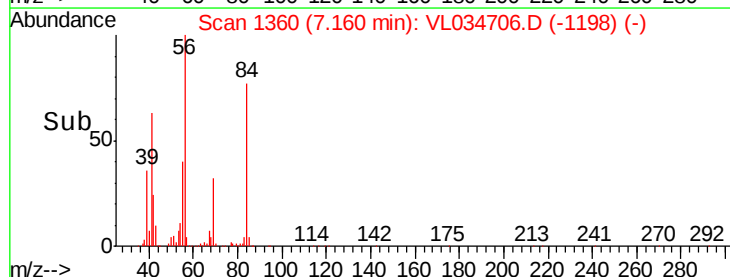
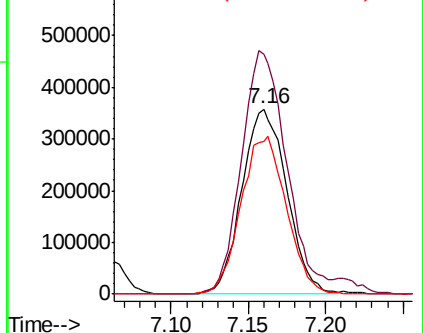
41 86.1 68.2 102.4

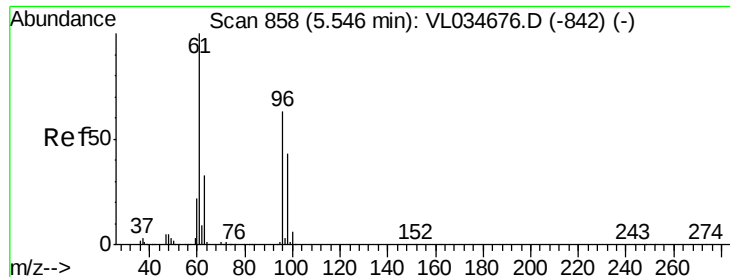


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



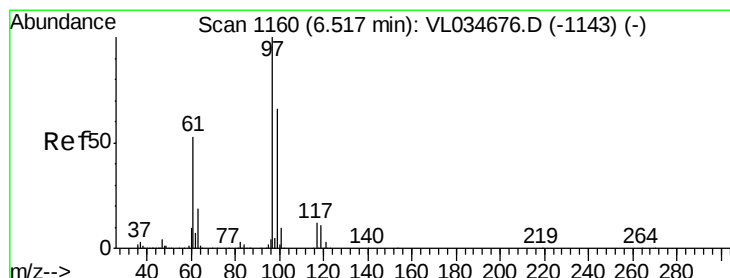
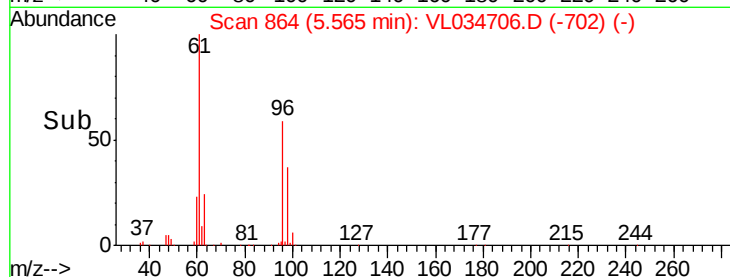
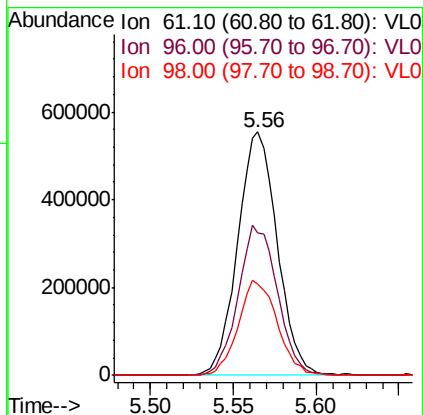
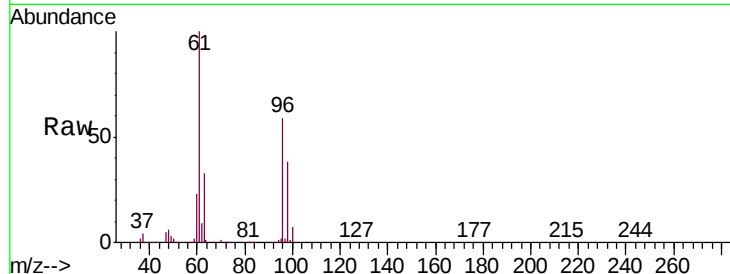


#31

cis-1,2-Dichloroethene
 Concen: 10.033 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0227ABS01

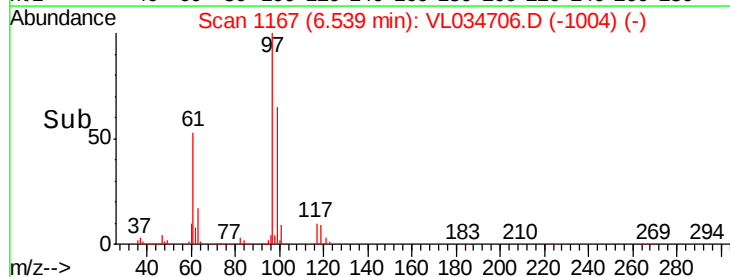
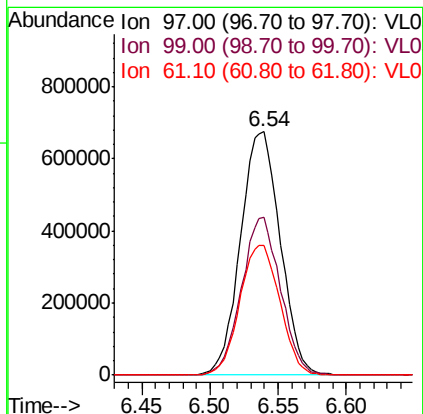
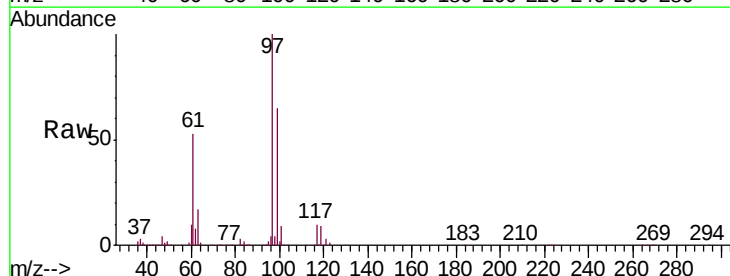
Tgt Ion: 61 Resp: 920514
 Ion Ratio Lower Upper
 61 100
 96 58.4 50.2 75.2
 98 37.5 34.3 51.5

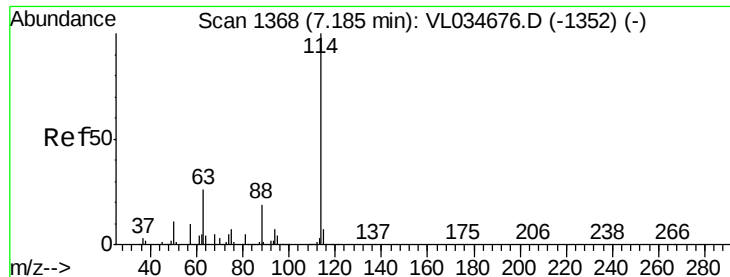


#32

1,1,1-Trichloroethane
 Concen: 9.857 ppbv
 RT: 6.54 min Scan# 1167
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Tgt Ion: 97 Resp: 1367279
 Ion Ratio Lower Upper
 97 100
 99 63.6 52.3 78.5
 61 53.7 42.8 64.2

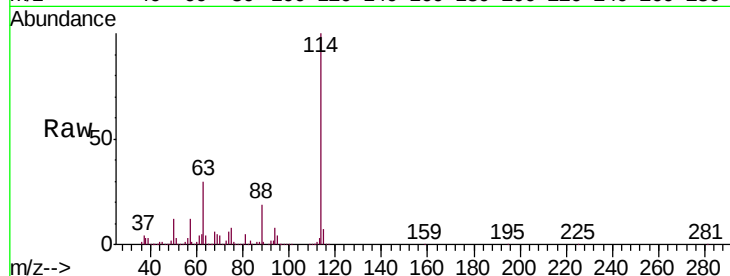




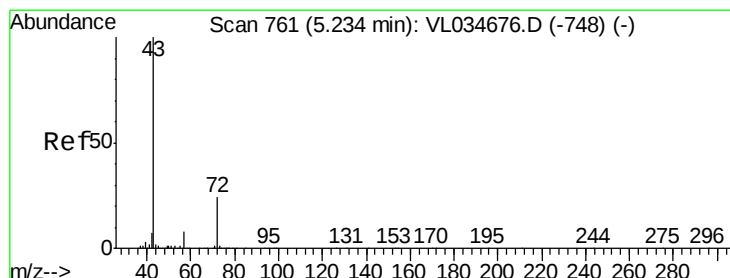
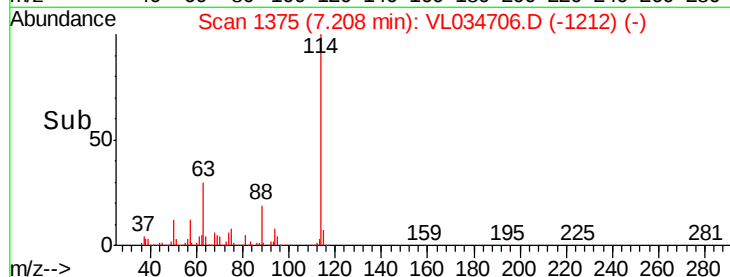
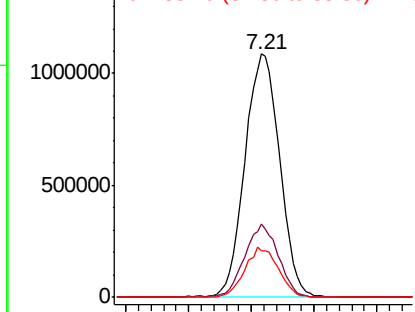
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0227ABS01

Tgt Ion:114 Resp: 2089650
 Ion Ratio Lower Upper
 114 100
 63 29.7 22.9 34.3
 88 19.7 15.8 23.6

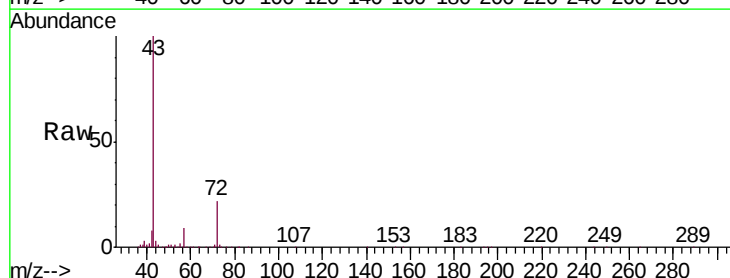


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

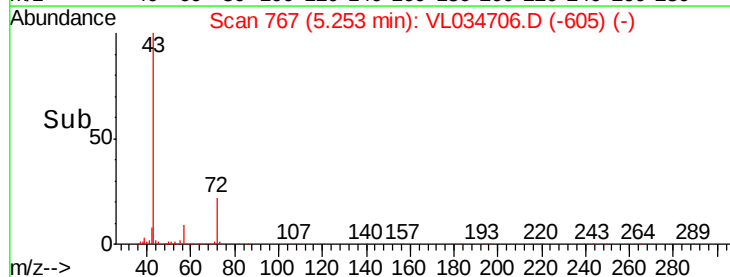
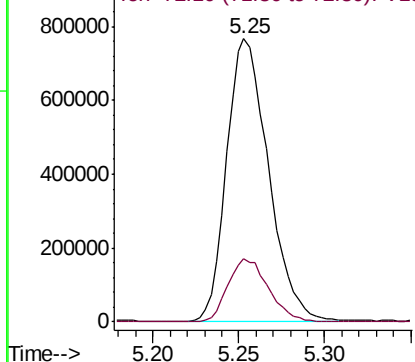


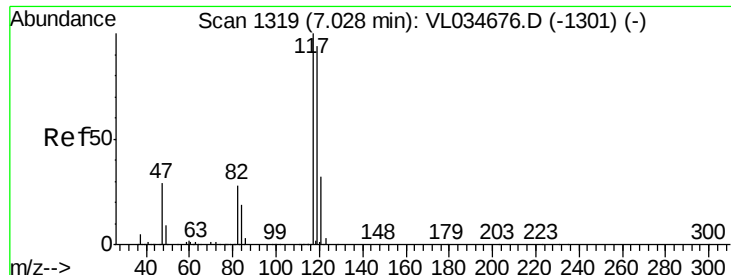
#34
 2-Butanone
 Concen: 9.838 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Tgt Ion: 43 Resp: 1293976
 Ion Ratio Lower Upper
 43 100
 72 21.9 18.2 27.2



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

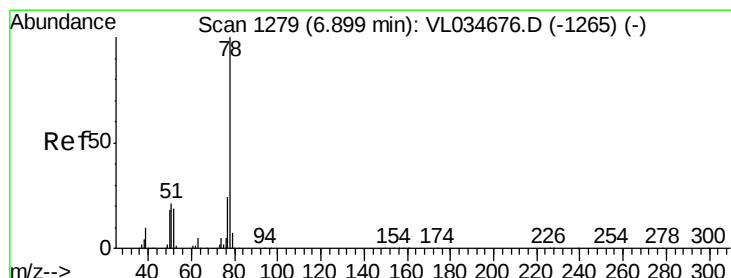
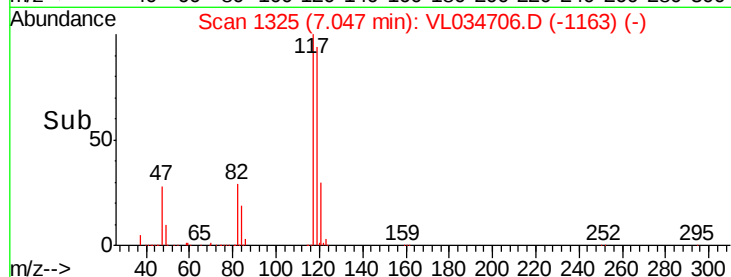
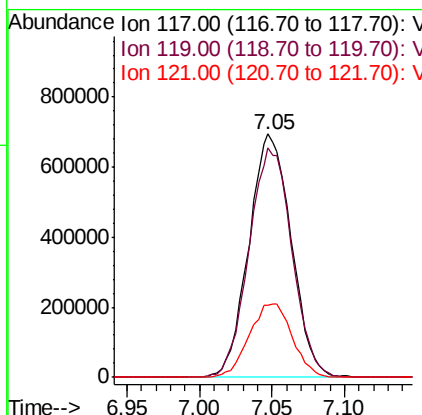
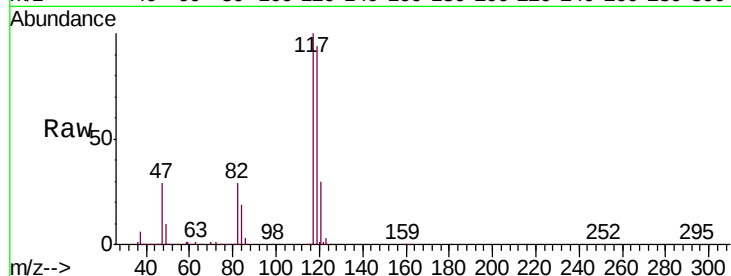




#35
 Carbon Tetrachloride
 Concen: 10.070 ppbv
 RT: 7.05 min Scan# 1325
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

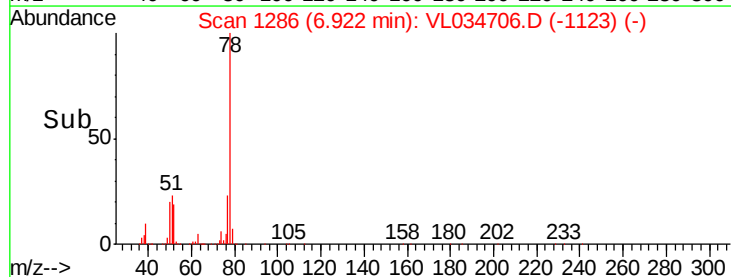
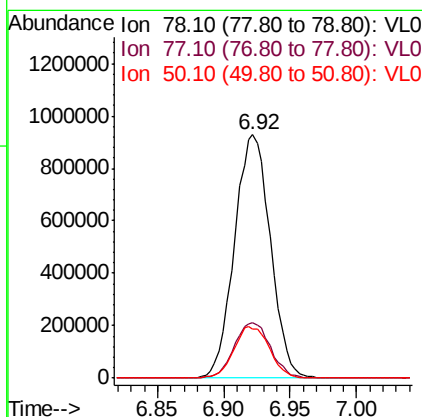
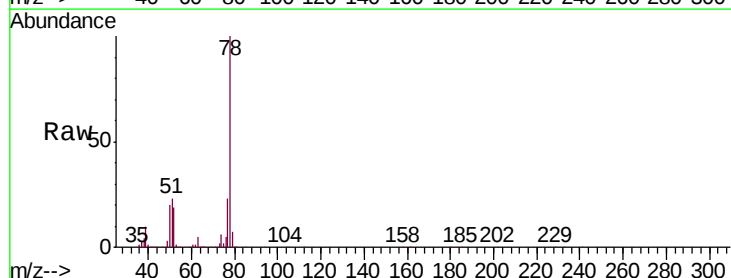
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0227ABS01

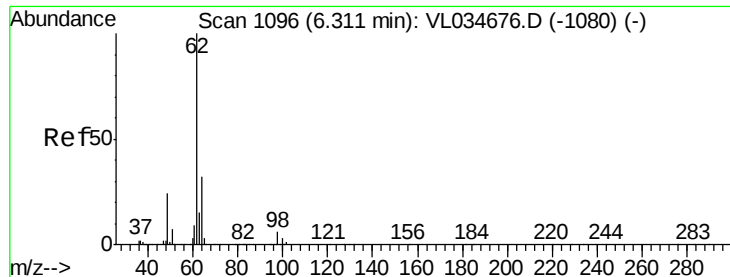
Tgt Ion:117 Resp: 1409246
 Ion Ratio Lower Upper
 117 100
 119 94.4 75.5 113.3
 121 29.8 25.4 38.0



#36
 Benzene
 Concen: 9.686 ppbv
 RT: 6.92 min Scan# 1286
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Tgt Ion: 78 Resp: 1748049
 Ion Ratio Lower Upper
 78 100
 77 22.7 19.5 29.3
 50 20.1 14.6 21.8

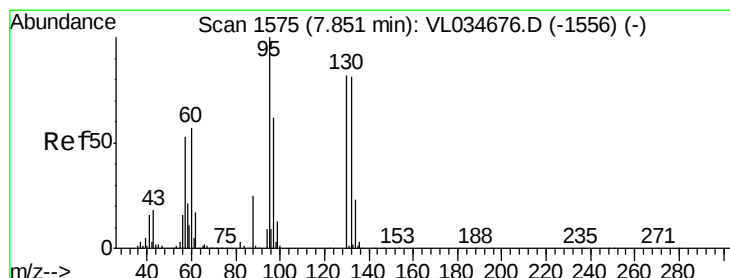
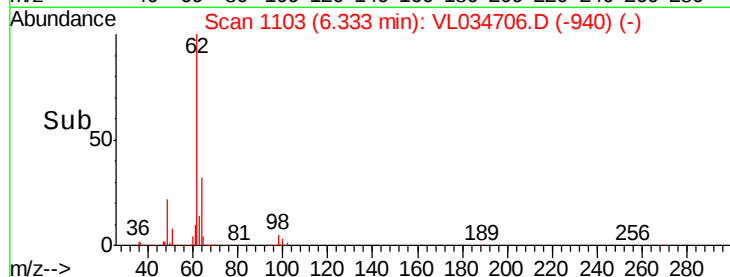
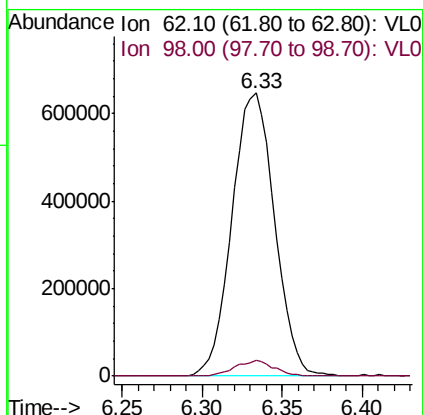
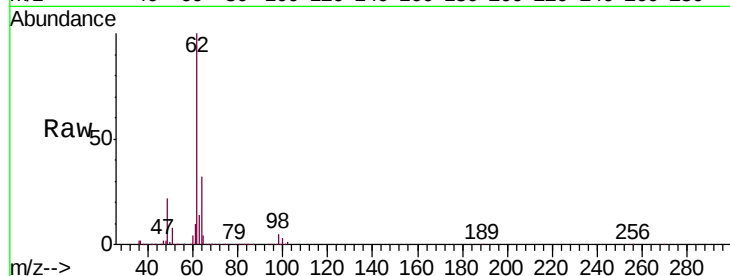




#37
 1,2-Dichloroethane
 Concen: 10.278 ppbv
 RT: 6.33 min Scan# 1103
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

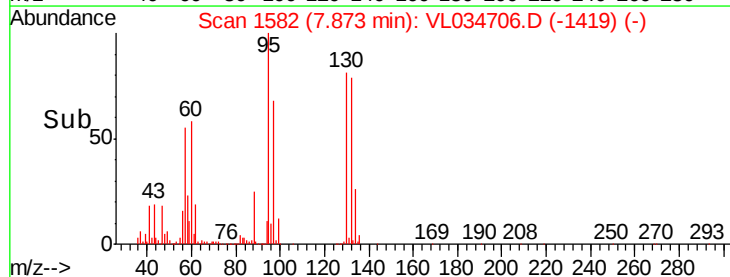
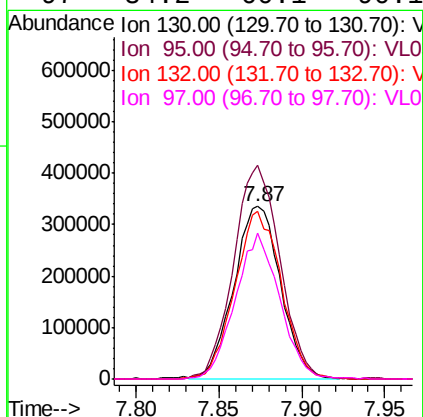
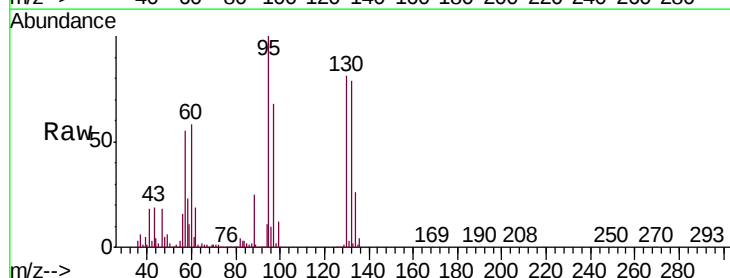
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0227ABS01

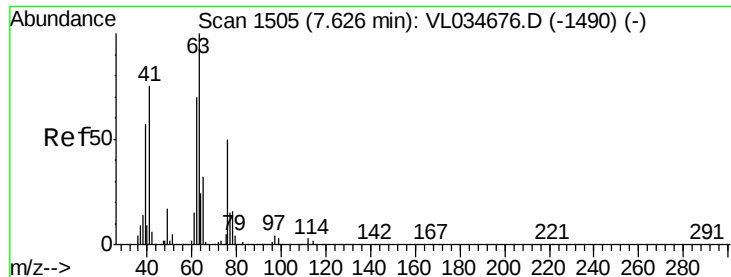
Tgt Ion: 62 Resp: 1169298
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.7 7.1



#38
 Trichloroethene
 Concen: 9.414 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Tgt Ion: 130 Resp: 654881
 Ion Ratio Lower Upper
 130 100
 95 123.6 97.1 145.7
 132 97.4 78.3 117.5
 97 84.2 60.1 90.1





#39

1,2-Dichloropropane

Concen: 9.711 ppbv

RT: 7.65 min Scan# 1512

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

VL0227ABS01

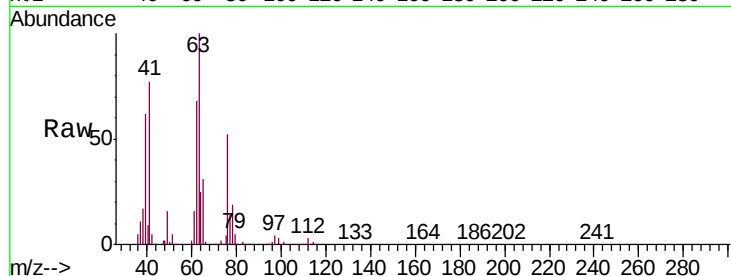
Tgt Ion: 63 Resp: 697280

Ion Ratio Lower Upper

63 100

41 76.9 60.2 90.4

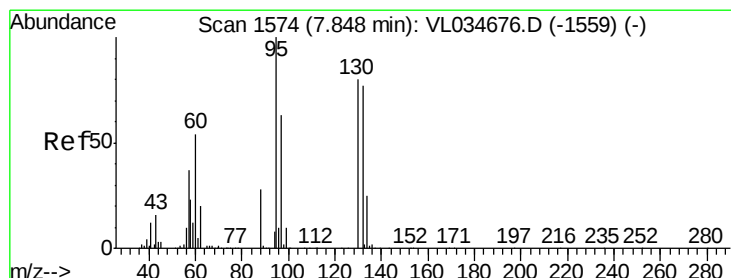
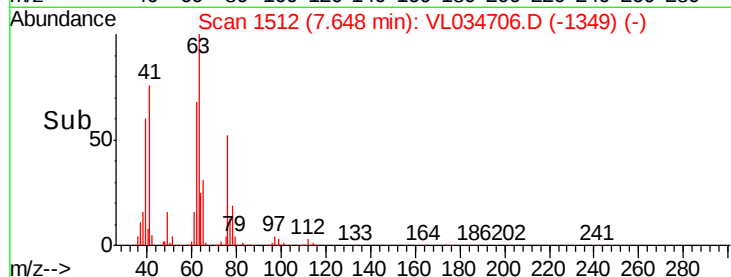
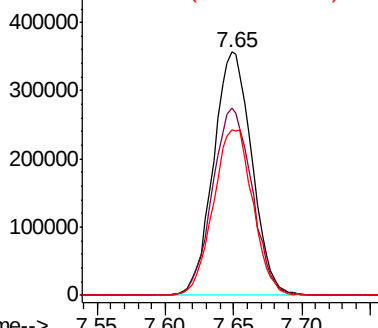
62 67.7 56.3 84.5



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.755 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Tgt Ion: 88 Resp: 262617

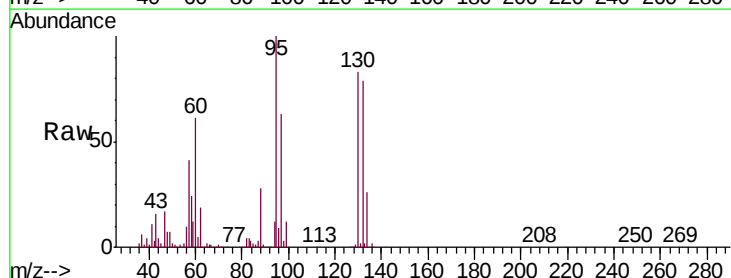
Ion Ratio Lower Upper

88 100

58 138.3 104.6 156.8

43 272.0 212.9 319.3

57 1173.0 935.2 1402.8

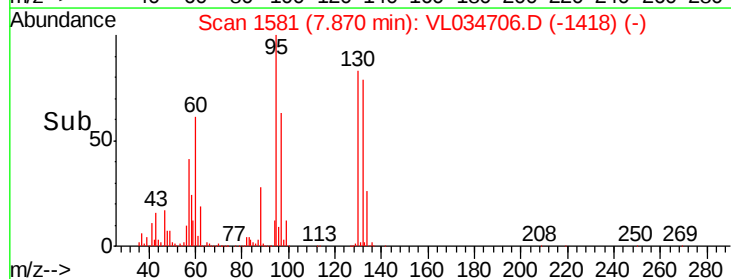
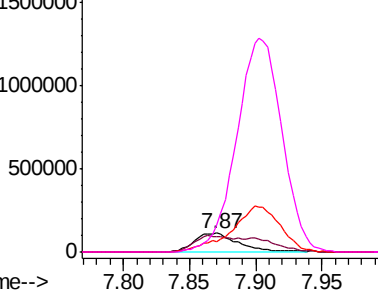


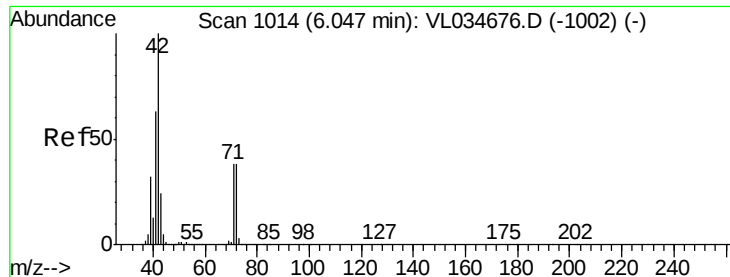
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.248 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

VL0227ABS01

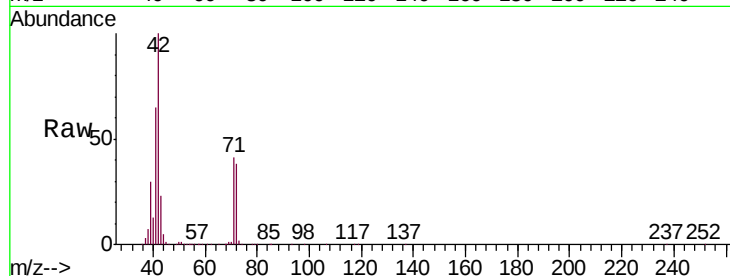
Tgt Ion: 42 Resp: 711428

Ion Ratio Lower Upper

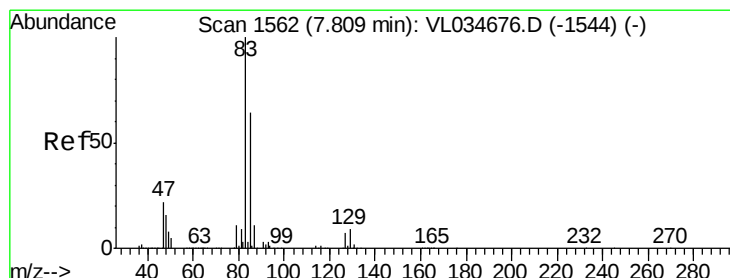
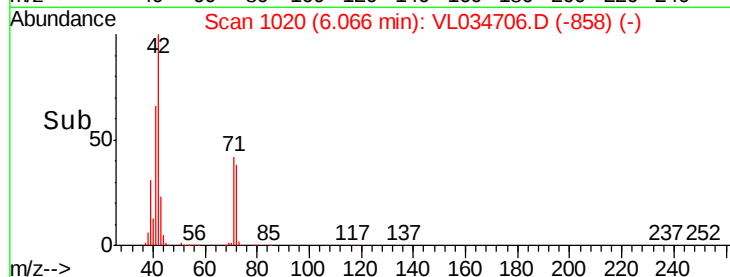
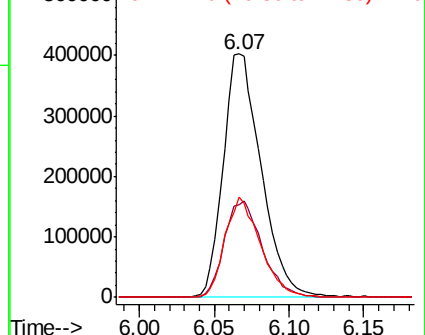
42 100

72 39.8 31.7 47.5

71 38.6 30.7 46.1



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.388 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

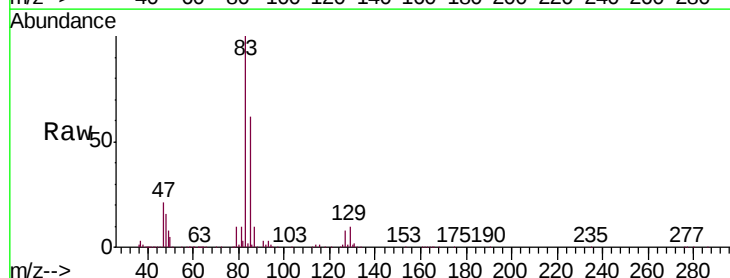
Tgt Ion: 83 Resp: 1547311

Ion Ratio Lower Upper

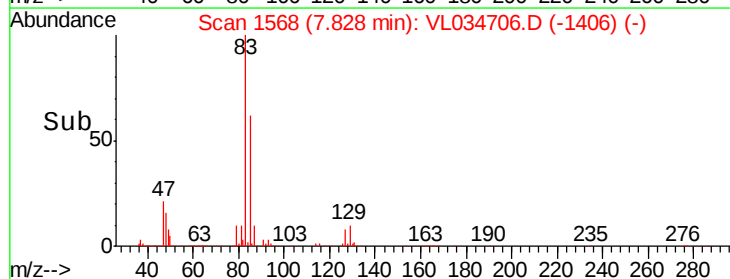
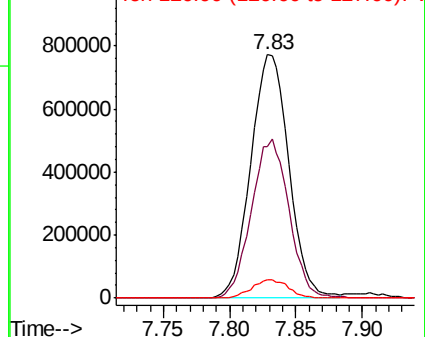
83 100

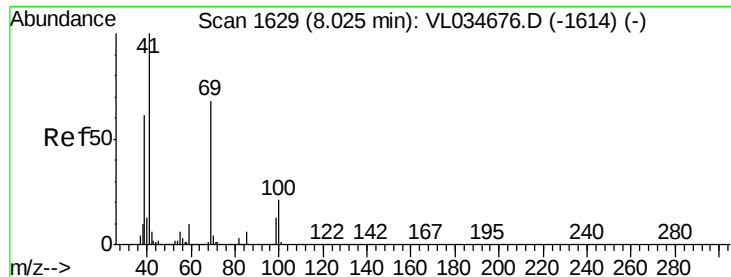
85 62.4 51.1 76.7

127 7.7 5.8 8.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

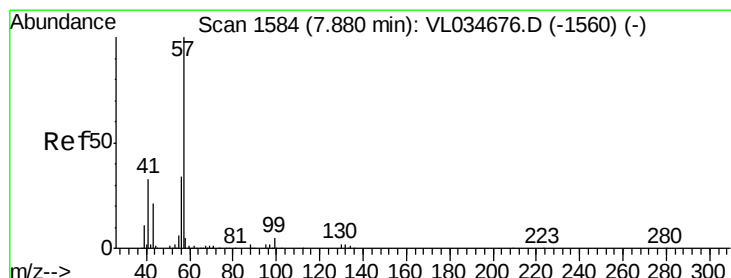
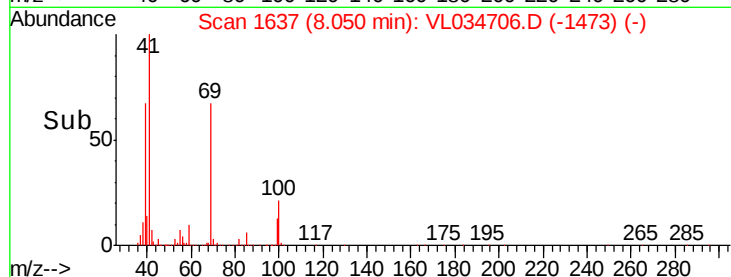
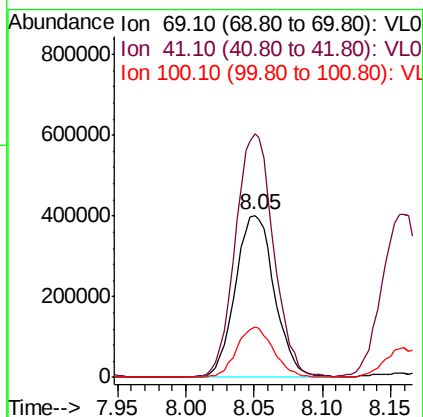
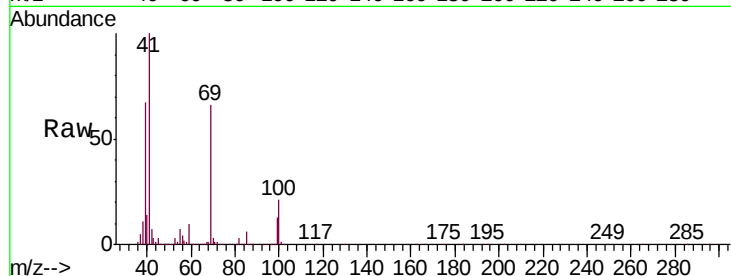




#43
Methyl Methacrylate
Concen: 10.543 ppbv
RT: 8.05 min Scan# 1637
Delta R.T. 0.03 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

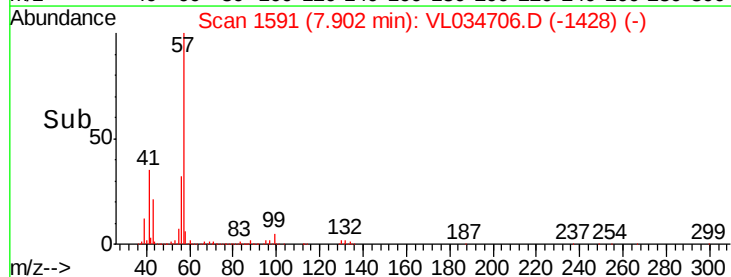
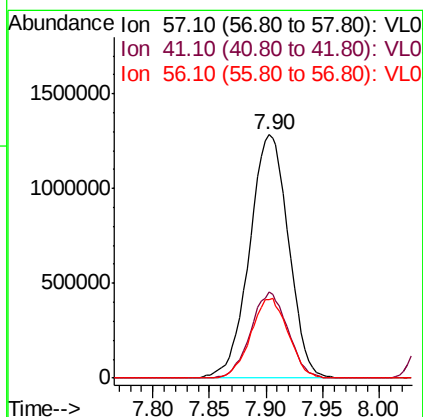
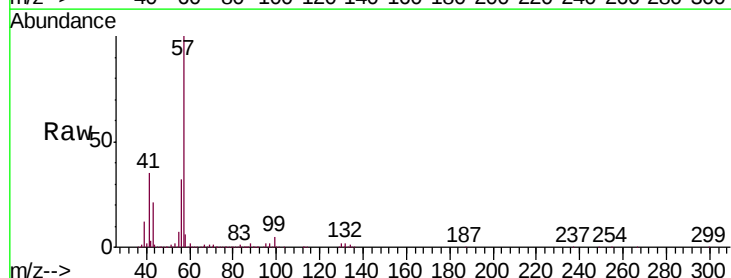
Instrument :
MSVOA_L
ClientSampleId :
VL0227ABS01

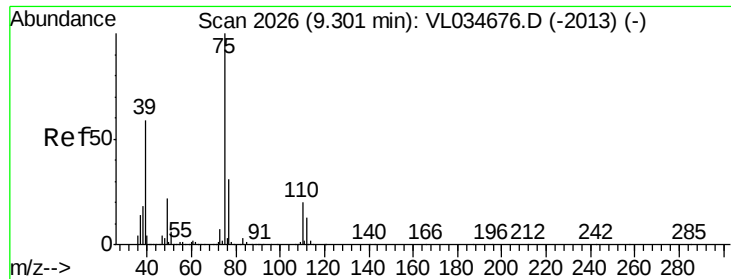
Tgt Ion: 69 Resp: 800342
Ion Ratio Lower Upper
69 100
41 146.4 118.2 177.2
100 29.1 24.2 36.2



#44
2,2,4-Trimethylpentane
Concen: 9.741 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Tgt Ion: 57 Resp: 3072728
Ion Ratio Lower Upper
57 100
41 33.6 26.0 39.0
56 31.5 25.6 38.4

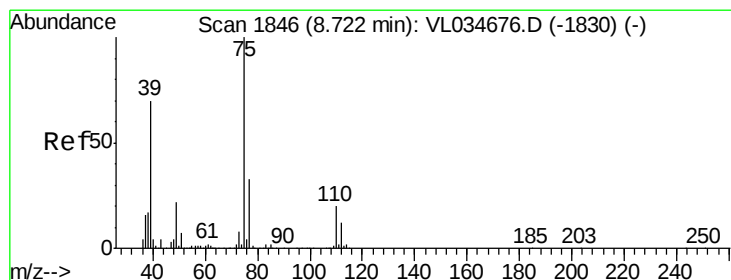
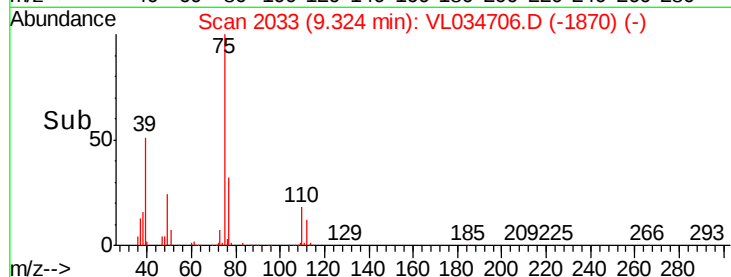
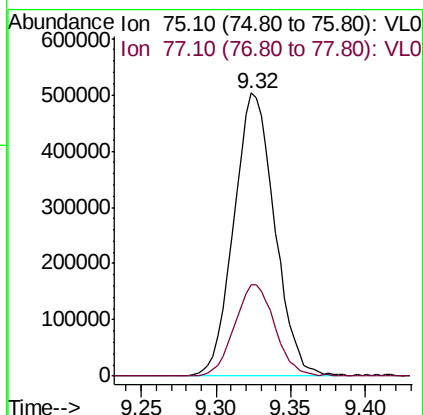
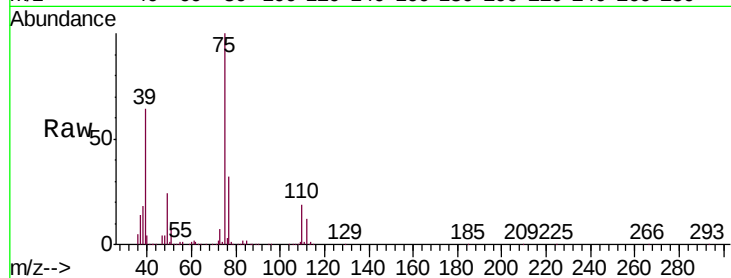




#45
 t-1,3-Dichloropropene
 Concen: 11.545 ppbv
 RT: 9.32 min Scan# 2033
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

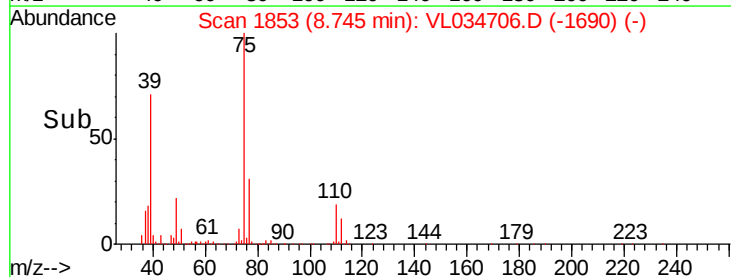
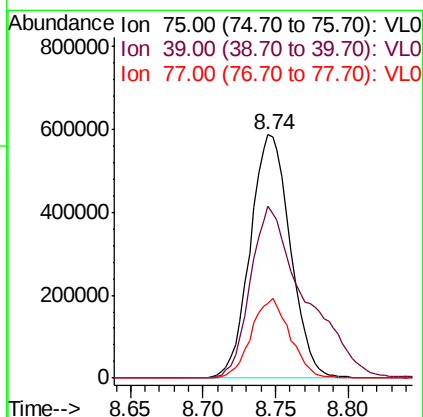
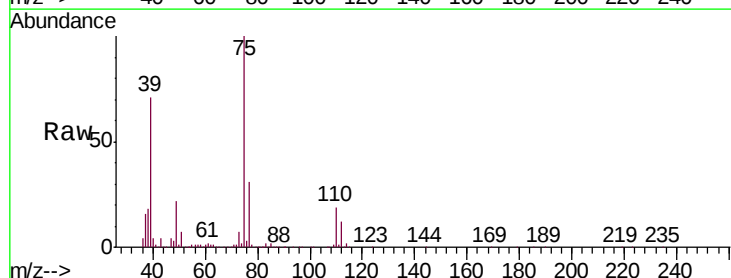
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0227ABS01

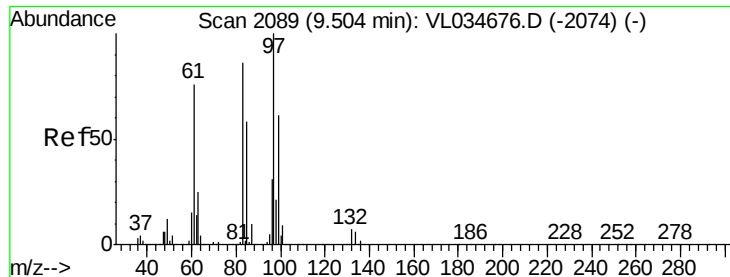
Tgt Ion: 75 Resp: 956361
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.3 37.9



#46
 cis-1,3-Dichloropropene
 Concen: 11.352 ppbv
 RT: 8.74 min Scan# 1853
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Tgt Ion: 75 Resp: 1127783
 Ion Ratio Lower Upper
 75 100
 39 70.7 55.7 83.5
 77 30.9 26.3 39.5

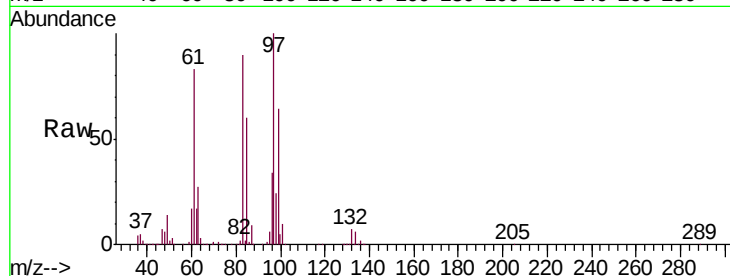




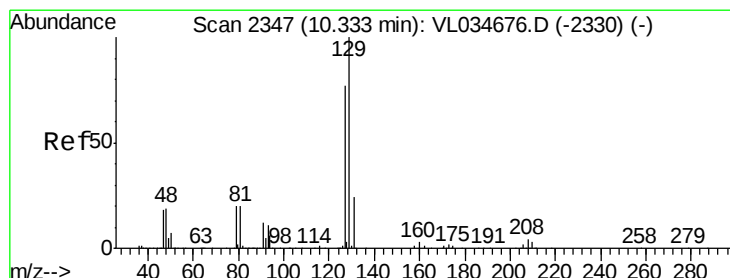
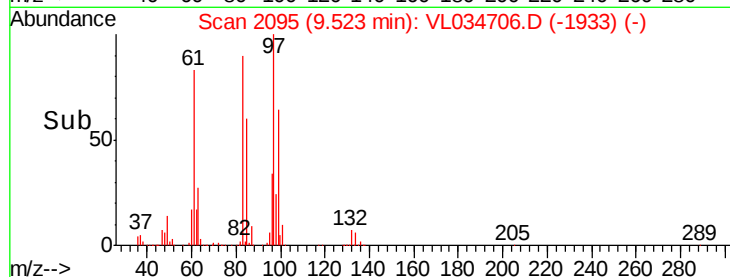
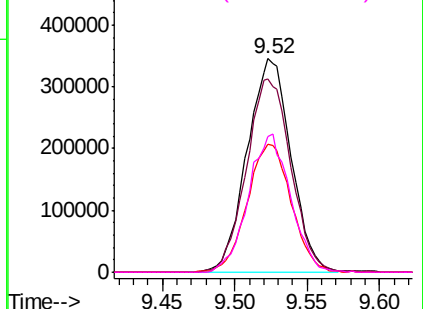
#47
 1,1,2-Trichloroethane
 Concen: 9.847 ppbv
 RT: 9.52 min Scan# 2095
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0227ABS01

Tgt Ion: 97 Resp: 725348
 Ion Ratio Lower Upper
 97 100
 83 90.2 69.4 104.0
 85 59.8 46.4 69.6
 99 63.6 48.4 72.6

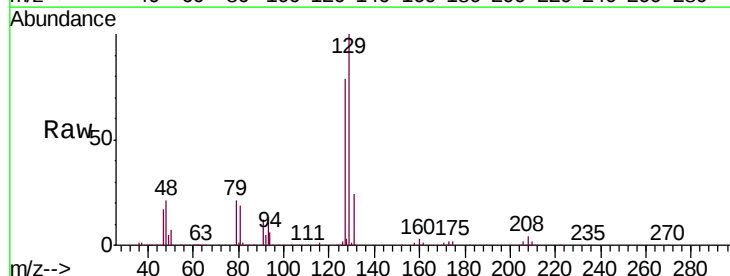


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

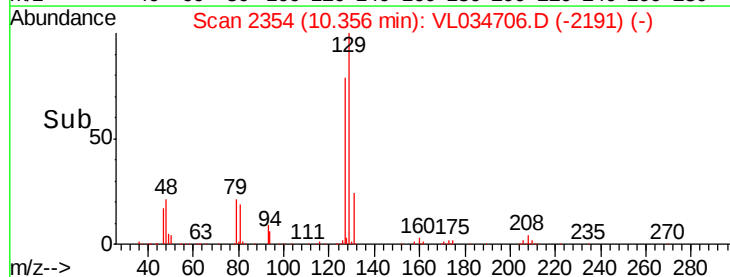
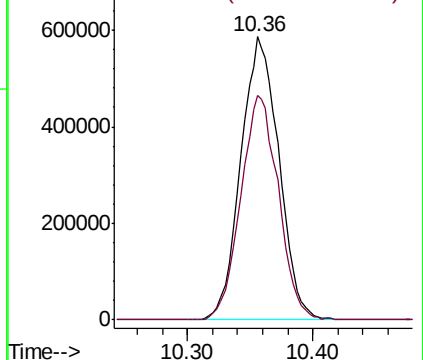


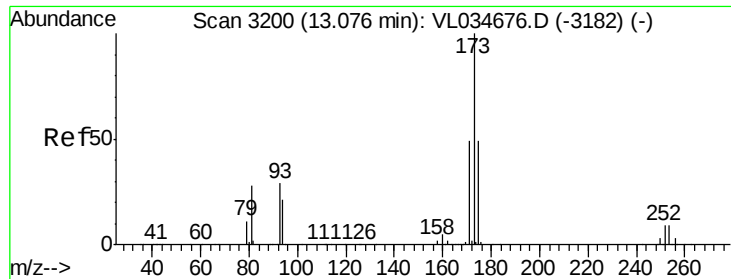
#48
 Dibromochloromethane
 Concen: 10.780 ppbv
 RT: 10.36 min Scan# 2354
 Delta R.T. 0.02 min
 Lab File: VL034706.D
 Acq: 27 Feb 2020 12:36

Tgt Ion: 129 Resp: 1234769
 Ion Ratio Lower Upper
 129 100
 127 78.9 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.974 ppbv

RT: 13.10 min Scan# 3209

Delta R.T. 0.03 min

Lab File: VL034706.D

Acq: 27 Feb 2020 12:36

Instrument :

MSVOA_L

ClientSampleId :

VL0227ABS01

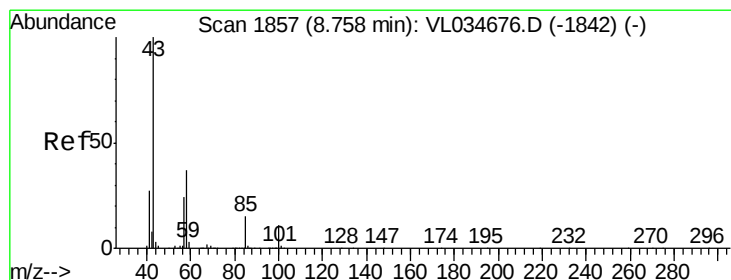
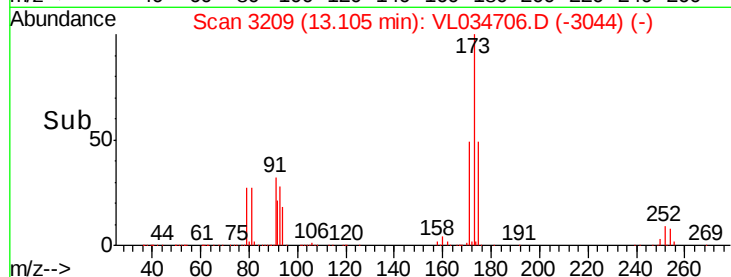
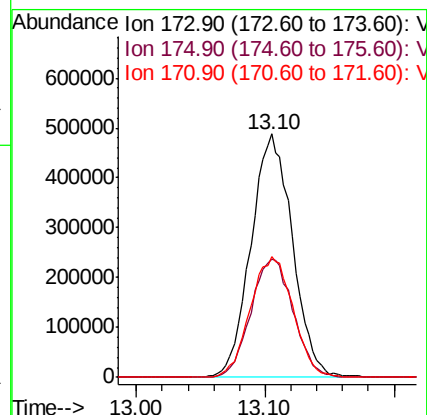
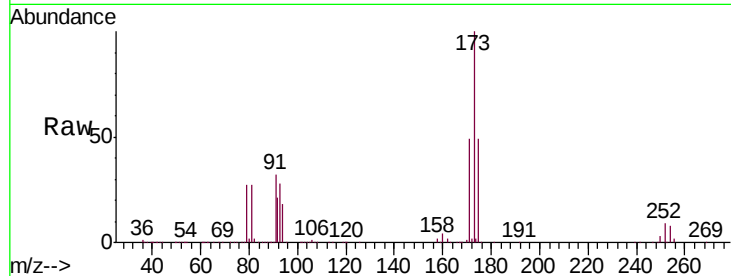
Tgt Ion:173 Resp: 1089911

Ion Ratio Lower Upper

173 100

175 49.9 38.6 58.0

171 51.4 41.5 62.3



#50

4-Methyl-2-Pentanone

Concen: 10.736 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. 0.02 min

Lab File: VL034706.D

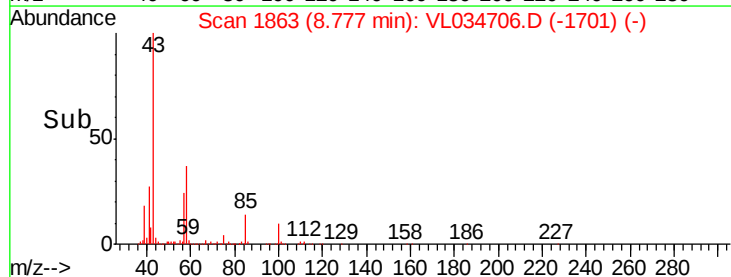
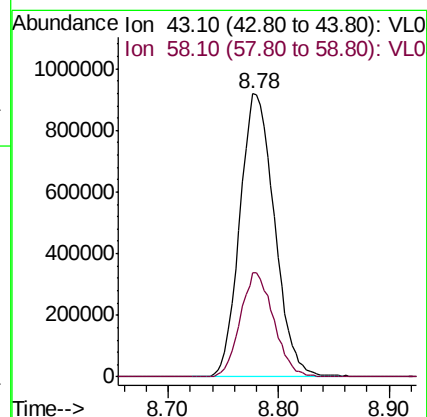
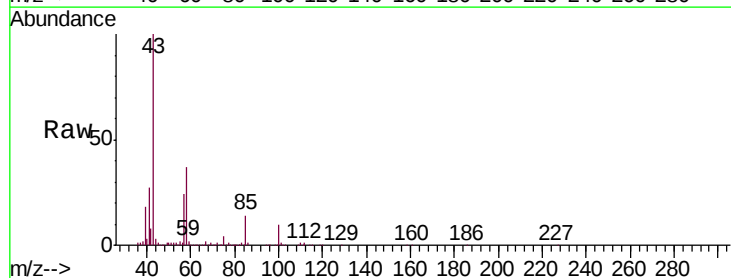
Acq: 27 Feb 2020 12:36

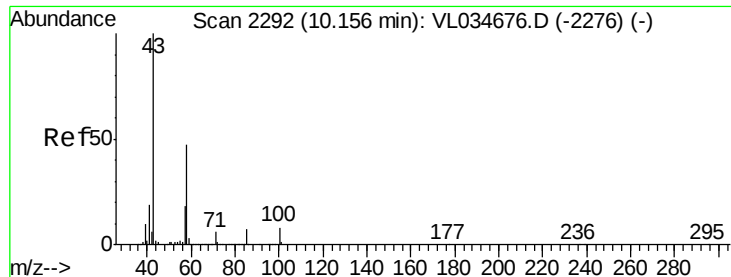
Tgt Ion: 43 Resp: 2000133

Ion Ratio Lower Upper

43 100

58 35.7 29.0 43.6

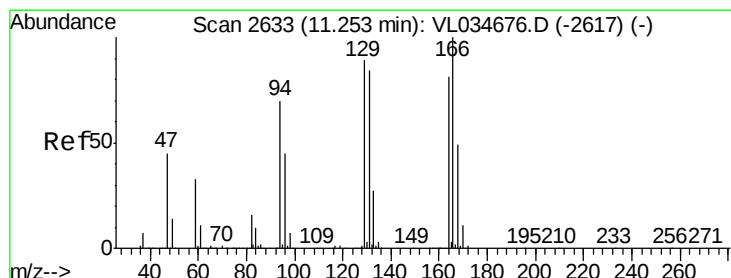
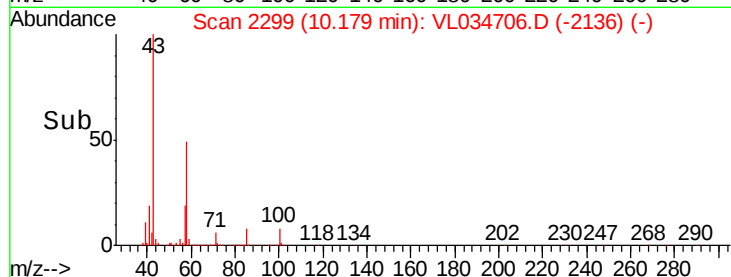
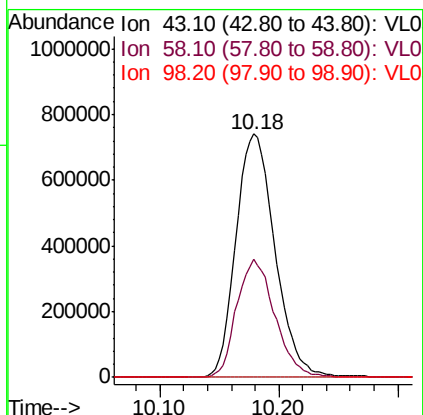
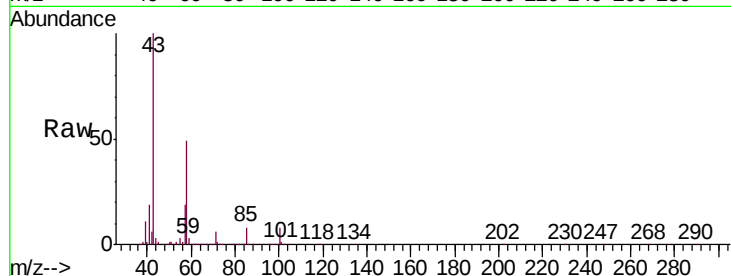




#51
2-Hexanone
Concen: 11.454 ppbv
RT: 10.18 min Scan# 2299
Delta R.T. 0.02 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Instrument :
MSVOA_L
ClientSampleId :
VL0227ABS01

Tgt Ion: 43 Resp: 1679245
Ion Ratio Lower Upper
43 100
58 47.7 39.4 59.0
98 0.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 9.219 ppbv
RT: 11.28 min Scan# 2641
Delta R.T. 0.03 min
Lab File: VL034706.D
Acq: 27 Feb 2020 12:36

Tgt Ion: 164 Resp: 609919
Ion Ratio Lower Upper
164 100
166 125.0 99.2 148.8
129 104.8 88.0 132.0
131 99.6 83.7 125.5

